

**Bid# 2023008-BID3000**  
**Columbia County Justice Center Renovation & Addition**  
**March 7, 2024**

**Addendum #5**

This addendum forms a part of the Contract Documents and modifies the original drawings and specifications. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

**Clarifications**

1. Is there an existing Conduit serving existing Chiller for the Controls? If so, can the existing conduit be extended or does an entirely new conduit for the controls need to be installed? **We do not know if there is an existing conduit serving the existing chiller for the controls. If one does exist and can be found, the conduit may be extended.**
2. Spec section 142400 lists thyssenkrupp endura hydraulic elevator as the only manufacturer. Schindler elevator would like to request approval to bid the Schindler 3100 Traction MRL in lieu of the model specified. Data sheet for the elevator can be sent if needed. **Please provide all data indicating the Schindler 3100 Traction MRL is equal to the elevator in the project specifications.**
3. Can you provide a base bid percentage of re-pointing expected for the brick and split face? Contractors assuming a percentage will create a discrepancy in bids. **Please review and compare the scope of demolition work with the scope of new work to determine the overall scope of masonry work. There are several existing exterior windows that must be infilled, in kind, on the first and second floor. There are also new openings where existing construction will need to be removed and masonry repaired/repointed. There is a large section of the upper FRP Cornice band on both sides of the building that will need to be removed and infilled where the existing and new additions adjoin. The Contractor should also repair/repoint any previous damage to existing mortar and new damage that occurs during cleaning of all existing brick and split face CMU.**
4. We find no pictures, illustrations, sign schedules, or explanation of which signs are to be replaced of the existing signs. Please advise if we are to replace any existing signage. **Some existing signs will be reused. For notes and finishes regarding existing and new sign types and locations, please refer to the revised door schedules A7.0-A7.1 and sheet A7.7, added in this addendum. In addition to the new signs added to the project, the general contractor will need to add (15) fifteen of "Sign - K" as an allowance for any additional signs requested by the owner or required by the AHJ.**
5. We are requesting that JSI Furniture be approved as a substitute for the Steelcase Furniture package. Data sheets can be provided but there is no attachment option in

Bonfire. Substitutions are not being considered for Steelcase as we are matching existing items.

6. Spec 017700 and 017839 mention photographic documentation but there is no associated photographic documentation spec section. Is a specific system or vendor required for photographic documentation? Both sections of the project specifications have been updated, removing photographic documentation.
7. Are there any load tests required for the pier types? None are mentioned in the Helical Pile specifications. Helical pier load tests are not required.
8. Are the lengths on the Helical Pier Loads table used as an expected/target depth for bid purposes or a required length to be reached? Lengths given on the Helical Pier Loads Table are anticipated depths to reach load capacity. Final depth to be determined by delegated design. Additional pile lengths to paid as defined in Specification Section 316615 1.3B
9. A concrete pad design is provided for the new generator, but I cannot locate a pad design for the chiller. Please provide a design so one can be properly priced. Chiller pad construction is addressed in specification 230500.3.5. The concrete pad is to be 4" larger than chiller base frame in both directions.

## **Revisions to the DRAWINGS**

### **1. REMOVE and REPLACE** the following sheets:

- CS1.0 – Cover Sheet, Index to Drawings
- A3.3 – Reflected Ceiling Plan Details
- A7.0 – Door Schedules
- A7.1 – Door Schedules
- E3.2A – Second Floor Plan Power Part A
- E3.2B – Second Floor Plan Power Part B

### **2. ADD** the following sheet:

- A7.7 – Sign Elevations, General Sign Notes & Finishes

### **3. NOTE** E2.1B – First Floor Lighting Plan Part "B"

- a. Main Lobby (E1000) – Provide a new pendant in the main lobby. The existing fixture shall be removed, and the new fixture shall be installed in the same location. The new fixture shall be an "OCL" Monaco Pendant (or approved equal) – 42" diameter with 3 angled stems to the collector with a single center stem to the canopy, premium acrylic diffuser in a brushed brass finish, high lumen LED output, 0-10V dimming. The exact overall mounting height shall be coordinated with the architect prior to installation.

- 4. NOTE E2.2A – Second Floor Lighting Plan Part “A”**
- a. Staging (2100) – Provide two (2) new pendants in the Staging Room connected to the switches shown. The exact location of the fixtures shall be determined by the architect prior to rough in. The new fixtures shall be a “OCL” Monaco Pendant (or approved equal) – Provide one 23” diameter and one 30” diameter with 3 angled stems to the collector with a single center stem to the canopy, premium acrylic diffuser in a brushed brass finish, high lumen LED output, 0-10V dimming. The exact overall mounting height shall be coordinated with the architect prior to installation.
- 5. NOTE E2.2B – Second Floor Lighting Plan Part “B”**
- a. Courtroom #2 (E-2050) – Provide two (2) new pendants in the courtroom. The existing fixtures shall be removed, and the new fixture shall be installed in the same location. The new fixture shall be a “OCL” Monaco Pendant (or approved equal) – 30” diameter with 3 angled stems to the collector with a single center stem to the canopy, premium acrylic diffuser in a brushed brass finish, high lumen LED output, 0-10V dimming. The exact overall mounting height shall be coordinated with the architect prior to installation.
- 6. NOTE Sheet – E5.5 – Basement and First Floor Plan – Telecommunications Systems**
- a. Telecommunications Vendor – Updated contact information.

Structured Media Solutions, LLC  
Mike Keesee 404-433-7088 email - mikekeesee@structuredmedia-llc.com  
Chris Keesee 404-433-7102 email - chriskeesee@structuredmedia-llc.com

### **Revisions to the PROJECT MANUAL**

- 1. REPLACE** EXHIBIT B - DRAWING INDEX with attached Section.
- 2. SECTION 017700 CLOSEOUT PROCEDURES**
  - a. Paragraph 1.8, A.5, **DELETE** Submit Final Completion photographic documentation.
- 3. SECTION 017839 PROJECT RECORD DOCUMENTS**
  - a. Paragraph 1.4, A.1.e, **DELETE** Cross-reference record prints to corresponding photographic documentation.
- 4. REPLACE** Section 042613 Masonry Veneer with attached Section.

### **ATTACHMENTS:**

DRAWINGS: CS1.0, A3.3, A7.0, A7.1, A7.7, E3.2A, E3.2B  
SPECIFICATIONS listed above.

**END OF ADDENDUM #5**

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# PROPOSED RENOVATION & ADDITION COLUMBIA COUNTY JUSTICE CENTER

## 640 RONALD REAGAN DRIVE EVANS, GEORGIA 30809



### INDEX TO DRAWINGS:

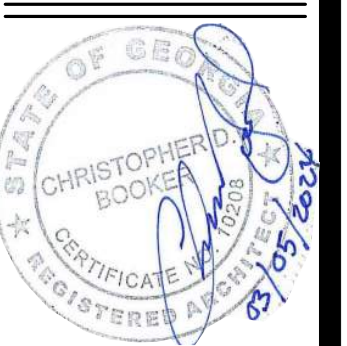
CS1.0	COVER SHEET	A1.0	EXISTING/DEMO BASEMENT PLAN	FP1.0	FIRE PROTECTION - DEMOLITION PLAN BASEMENT	E1.0	ELECTRICAL LEGEND, NOTES, DETAILS, AND FIXTURE SCHEDULE
CS1.1	CODE ANALYSIS	A1.1	FIRST FLOOR EXISTING/DEMO PLAN	FP1.1	FIRE PROTECTION - DEMOLITION PLAN FIRST FLOOR PART A	E1.1	ELECTRICAL SITE PLAN
CS1.2	GENERAL PROJECT NOTES	A1.1A	FIRST FLOOR - AREA "A" EXISTING/DEMO PLAN	FP1.2	FIRE PROTECTION - DEMOLITION PLAN FIRST FLOOR PART B	E1.2	ELECTRICAL DEMOLITION PLAN
CS1.3	PROJECT SITE SIGN	A1.1B	FIRST FLOOR - AREA "B" EXISTING/DEMO PLAN	FP2.0	FIRE PROTECTION - NEW WORK PLAN BASEMENT PART A	E2.0	BASEMENT FLOOR PLAN - LIGHTING
PH1.0	PHASE 1 - FIRST FLOOR PHASING PLAN	A1.1C	FIRST FLOOR - AREA "C" EXISTING/DEMO PLAN	FP2.1	FIRE PROTECTION - NEW WORK PLAN BASEMENT PART B	E2.1A	FIRST FLOOR PLAN - LIGHTING PART "A"
PH2.0	PHASE 2 - BASEMENT PHASING PLAN	A1.2	SECOND FLOOR EXISTING/DEMO PLAN	FP2.2	FIRE PROTECTION - NEW WORK PLAN FIRST FLOOR PART A	E2.1B	FIRST FLOOR PLAN - LIGHTING PART "B"
PH2.1	PHASE 2 - FIRST FLOOR PHASING PLAN	A1.2A	SECOND FLOOR - AREA "A" EXISTING/DEMO PLAN	FP2.3	FIRE PROTECTION - NEW WORK PLAN FIRST FLOOR PART B	E2.2A	SECOND FLOOR PLAN - LIGHTING PART "A"
PH2.2	PHASE 2 - SECOND FLOOR PHASING PLAN	A1.2B	SECOND FLOOR - AREA "B" EXISTING/DEMO PLAN	FP2.4	FIRE PROTECTION - NEW WORK PLAN SECOND FLOOR PART A	E2.2B	SECOND FLOOR PLAN - LIGHTING PART "B"
PH2.3	PHASE 2 - SECOND FLOOR PHASING PLAN	A1.2C	SECOND FLOOR - AREA "C" EXISTING/DEMO PLAN	FP2.5	FIRE PROTECTION - NEW WORK PLAN SECOND FLOOR PART B	E3.0	BASEMENT FLOOR PLAN - POWER
PH3.0	PHASE 3 - BASEMENT PHASING PLAN	A1.3	ROOF PLAN EXISTING/DEMO PLAN	M1.0	HVAC DEMOLITION PLAN - BASEMENT MECHANICAL ROOM	E3.1A	FIRST FLOOR PLAN - POWER PART "A"
PH3.1	PHASE 3 - FIRST FLOOR PHASING PLAN	A1.3A	ROOF - AREA "A" EXISTING/DEMO PLAN	M1.1	HVAC DEMOLITION PLAN - FIRST FLOOR	E3.1B	FIRST FLOOR PLAN - POWER PART "B"
PH3.2	PHASE 3 - SECOND FLOOR PHASING PLAN	A1.3B	ROOF - AREA "B" EXISTING/DEMO PLAN	M1.2	HVAC DEMOLITION PLAN - SECOND FLOOR	E3.2A	SECOND FLOOR PLAN - POWER PART "A"
PH3.3	PHASE 3 - SECOND FLOOR PHASING PLAN	A1.3C	ROOF - AREA "C" EXISTING/DEMO PLAN	M1.3	HVAC DEMOLITION PLAN - FIRST FLOOR	E3.2B	SECOND FLOOR PLAN - POWER PART "B"
PH4.0	PHASE 4 - FIRST FLOOR PHASING PLAN	A2.0	PROPOSED BASEMENT FLOOR PLAN PARTITION TYPES	M1.4	HVAC DEMOLITION PLAN - SECOND FLOOR	E4.1	BASEMENT & FIRST FLOOR PLAN - MECHANICAL POWER
PH4.1	PHASE 4 - SECOND FLOOR PHASING PLAN	A2.0A	BASEMENT - AREA "A" PROPOSED FLOOR PLAN	M1.5	HVAC DEMOLITION PLAN - ROOF	E4.2	SECOND FLOOR & ROOF PLAN - MECHANICAL POWER
PH5.0	PHASE 5 - FIRST FLOOR PHASING PLAN	A2.0B	BASEMENT - AREA "B" PROPOSED FLOOR PLAN	M2.0	HVAC NEW WORK PLAN - BASEMENT AND SITE	E5.1	BASEMENT AND FIRST FLOOR PLAN - FIRE ALARM SYSTEM
PH6.0	PHASE 6 - SECOND FLOOR PHASING PLAN	A2.1	FIRST FLOOR PROPOSED FLOOR PLAN	M2.1	HVAC NEW WORK PLAN - FIRST FLOOR PART A	E5.2	SECOND FLOOR PLAN - FIRE ALARM SYSTEM
CIVIL 0	COVER SHEET	A2.1A	FIRST FLOOR - AREA "A" PROPOSED FLOOR PLAN	M2.2	HVAC NEW WORK PLAN - FIRST FLOOR PART B	E5.3	BASEMENT & FIRST FLOOR PLAN - ACCESS CONTROL AND VIDEO SURVEILLANCE SYSTEMS
CIVIL 1	EXISTING CONDITIONS	A2.1B	FIRST FLOOR - AREA "B" PROPOSED FLOOR PLAN	M2.3	HVAC NEW WORK PLAN - SECOND FLOOR PART A	E5.4	SECOND FLOOR PLAN - ACCESS CONTROL AND VIDEO SURVEILLANCE SYSTEMS
CIVIL 2	DEMOLITION PLAN	A2.1C	FIRST FLOOR - AREA "C" PROPOSED FLOOR PLAN	M2.4	HVAC NEW WORK PLAN - SECOND FLOOR PART B	E5.5	BASEMENT & FIRST FLOOR PLAN - TELECOMMUNICATIONS SYSTEM
CIVIL 3	LAYOUT PLAN	A2.2	SECOND FLOOR PROPOSED FLOOR PLAN	M2.5	HVAC NEW WORK PLAN - ROOF PART A	E6.1	ROOF - LIGHTING PROTECTION PLAN
CIVIL 4	UTILITY PLAN	A2.2A	SECOND FLOOR - AREA "A" PROPOSED FLOOR PLAN	M2.6	HVAC NEW WORK PLAN - ROOF PART B	E7.0	ELECTRICAL RISER & PANEL SCHEDULES
CIVIL 5	E.S. & P.C.P. CLEARING PLAN (INITIAL)	A2.2B	SECOND FLOOR - AREA "B" PROPOSED FLOOR PLAN	M3.0	HVAC NEW WORK PLAN - BASEMENT MECHANICAL ROOM	E7.1	ELECTRICAL PANEL SCHEDULES
CIVIL 6	E.S. & P.C.P. GRADING PLAN (INTERMEDIATE)	A2.2C	SECOND FLOOR - AREA "C" PROPOSED FLOOR PLAN	M3.1	HVAC NEW WORK PLAN - FIRST FLOOR PART A	E7.2	ELECTRICAL DETAILS
CIVIL 7	E.S. & P.C.P. FINAL PLAN	A2.3	ROOF PLAN PROPOSED FLOOR PLAN	M3.2	HVAC NEW WORK PLAN - FIRST FLOOR PART B	E7.3	ELECTRICAL DETAILS
CIVIL 8	E.S. & P.C.P. NOTES AND DETAILS	A2.3A	ROOF - AREA "A" PROPOSED ROOF PLAN	M3.3	HVAC NEW WORK PLAN - SECOND FLOOR PART A	E7.4	ELECTRICAL DETAILS
CIVIL 9	E.S. & P.C.P. NOTES AND DETAILS	A2.3B	ROOF - AREA "B" PROPOSED ROOF PLAN	M4.1	HVAC FLOW DIAGRAMS AND FMS SUMMARY		
CIVIL 10	MISCELLANEOUS DETAILS	A2.3C	ROOF - AREA "C" PROPOSED ROOF PLAN	M5.1	HVAC FLOW DIAGRAMS AND FMS SUMMARY		
CIVIL 11	MISCELLANEOUS DETAILS	A2.4	SECTIONS & DETAILS	M5.2	HVAC SCHEDULES		
CIVIL 12	MISCELLANEOUS DETAILS	A2.5	SECTIONS & DETAILS	M6.1	HVAC SCHEDULES, LEGEND AND NOTES		
CIVIL 13	MISCELLANEOUS DETAILS	A3.0	BASEMENT REFLECTED CEILING PLAN	M6.2			
CIVIL 14	MISCELLANEOUS DETAILS	A3.0A	BASEMENT - AREA "A" REFLECTED CEILING PLAN				
CIVIL 15	MISCELLANEOUS DETAILS	A3.0B	BASEMENT - AREA "B" REFLECTED CEILING PLAN				
CIVIL 16	MISCELLANEOUS DETAILS	A3.1	FIRST FLOOR REFLECTED CEILING PLAN				
CIVIL 17	MISCELLANEOUS DETAILS	A3.1A	FIRST FLOOR - AREA "A" REFLECTED CEILING PLAN				
CIVIL 18	MISCELLANEOUS DETAILS	A3.1B	FIRST FLOOR - AREA "B" REFLECTED CEILING PLAN				
CIVIL 19	MISCELLANEOUS DETAILS	A3.1C	FIRST FLOOR - AREA "C" REFLECTED CEILING PLAN				
CIVIL 20	SEWER PROFILES	A3.2	SECOND FLOOR REFLECTED CEILING PLAN				
CIVIL 21	N.P.D.E.S. INSPECTION & SAMPLING PLAN	A3.2A	SECOND FLOOR - AREA "A" REFLECTED CEILING PLAN				
L-101	PLANTING PLAN	A3.2B	SECOND FLOOR - AREA "B" REFLECTED CEILING PLAN				
L-500	PLANTING DETAILS	A3.2C	SECOND FLOOR - AREA "C" REFLECTED CEILING PLAN				
L-501	TREE ROOT AND CROWN DETAILS	A3.3	REFLECTED CEILING PLAN DETAILS				
L-600	SCHEDULES & CALCULATIONS	A4.0	EXISTING EXTERIOR ELEVATIONS				
IR-101	IRRIGATION PLAN	A4.1	PROPOSED EXTERIOR ELEVATIONS				
IR-102	IRRIGATION PLAN	A4.2	PROPOSED EXTERIOR ELEVATIONS				
IR-103	IRRIGATION PLAN	A4.3	PROPOSED EXTERIOR ELEVATIONS				
IR-104	IRRIGATION PLAN	A5.1	BUILDING SECTIONS				
S0.0	STRUCTURAL NOTES	A5.2	BUILDING SECTIONS				
S1.0	FOUNDATION AND SLAB PLANS	A5.3	WALL SECTIONS				
S1.1	HELICAL PIER PLANS	A5.4	PARTIAL WALL SECTIONS & DETAILS				
S1.2	BASEMENT AND CONNECTOR PLANS	A5.5	WALL SECTIONS & DETAILS				
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S2.1	ROOF FRAMING PLANS	A5.7	WALL SECTIONS				
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S4.0	STRUCTURAL DETAILS - SHEET 2	A5.9	WALL SECTION DETAILS				
S5.0	STRUCTURAL DETAILS - SHEET 3	A5.10	WALL SECTION DETAILS				
S6.0	STRUCTURAL DETAILS - SHEET 4	A5.11	ROOF DETAILS				
S7.0	STRUCTURAL DETAILS - SHEET 5	A6.1	ENLARGED FLOOR PLAN INTERIOR ELEVATIONS				
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A0.0	BASEMENT LIFE SAFETY PLAN	A6.3	ENLARGED FLOOR PLAN INTERIOR ELEVATIONS				
A0.0A	BASEMENT - AREA "A" LIFE SAFETY PLAN	A6.4	ENLARGED FLOOR PLANS				
A0.0B	BASEMENT - AREA "B" LIFE SAFETY PLAN	A6.5	INTERIOR ELEVATIONS				
A0.1	FIRST FLOOR LIFE SAFETY PLAN	A6.6	INTERIOR ELEVATIONS				
A0.1A	FIRST FLOOR - AREA "A" LIFE SAFETY PLAN	A6.7	INTERIOR ELEVATIONS				
A0.1B	FIRST FLOOR - AREA "B" LIFE SAFETY PLAN	A6.8	INTERIOR ELEVATIONS				
A0.1C	FIRST FLOOR - AREA "C" LIFE SAFETY PLAN	A6.9	CASEWORK DETAILS				
A0.2	SECOND FLOOR LIFE SAFETY PLAN	A6.10	CASEWORK DETAILS				
A0.2A	SECOND FLOOR - AREA "A" LIFE SAFETY PLAN	A6.11	CASEWORK DETAILS				
A0.2B	SECOND FLOOR - AREA "B" LIFE SAFETY PLAN	A6.12	TRIM SECTIONS & DETAILS				
A0.2C	SECOND FLOOR - AREA "C" LIFE SAFETY PLAN	A7.0	SALLYPORT & JUDGE'S PARKING PLAN, SECTION & DETAILS				
A0.3	U.L. DESIGNS	A7.1	DOOR SCHEDULES				
A0.4	U.L. DESIGNS	A7.1	DOOR SCHEDULES				
A0.5	U.L. DESIGNS	A7.2	DOOR SCHEDULES				
A0.6	U.L. DESIGNS	A7.3	DOOR CONFIGURATIONS FRAME CONFIGURATIONS				
A0.7	U.L. DESIGNS	A7.4	EXTERIOR DOOR & WINDOW DETAILS				
A0.8	U.L. DESIGNS	A7.5	INTERIOR DOOR DETAILS				
A0.9	U.L. DESIGNS	A7.6	INTERIOR WINDOW DETAILS				
A0.10	U.L. DESIGNS	A7.7	WINDOW CONFIGURATIONS				
A0.11	U.L. DESIGNS	A7.7	SIGN ELEVATION				
A0.12	U.L. DESIGNS	A8.0	GENERAL SIGN NOTES & FINISHES				
		A8.1	VERTICAL CIRCULATION - STAIRS				
		A8.2	VERTICAL CIRCULATION - ELEVATOR				
		A8.2	VERTICAL CIRCULATION DETAILS				

**PROJECT INFORMATION:**

<u>BOARD OF COMMISSIONERS</u>	<u>COUNTY MANAGER</u>
DOUG DUNCAN CHAIRMAN	SCOTT JOHNSON
CONNIE MELEAR	
DON SKINNER	<u>DEPUTY MANAGER</u>
GARY L. RICHARDSON	MATT SCHLACHTER
ALISON COUCH	

FACILITIES DESIGN AND CONSTRUCTION  
STEVEN D. PRATHER, DIRECTOR

24 HOUR EMERGENCY CONTACT:  
STEVEN PRATHER  
(706) 829 - 6335



COVER SHEET

INDEX TO DRAWINGS

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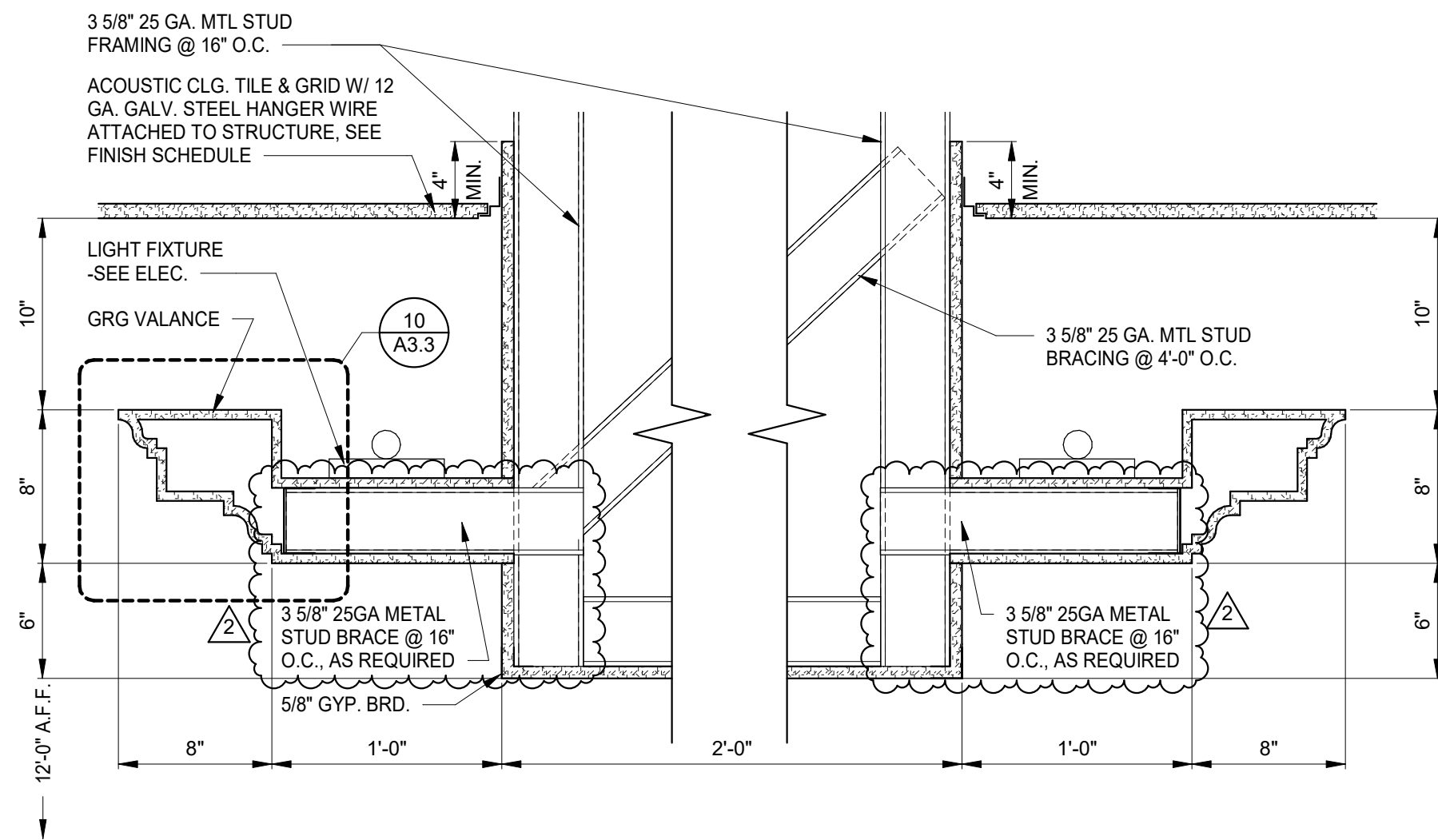
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DATE: JANUARY 29, 2024

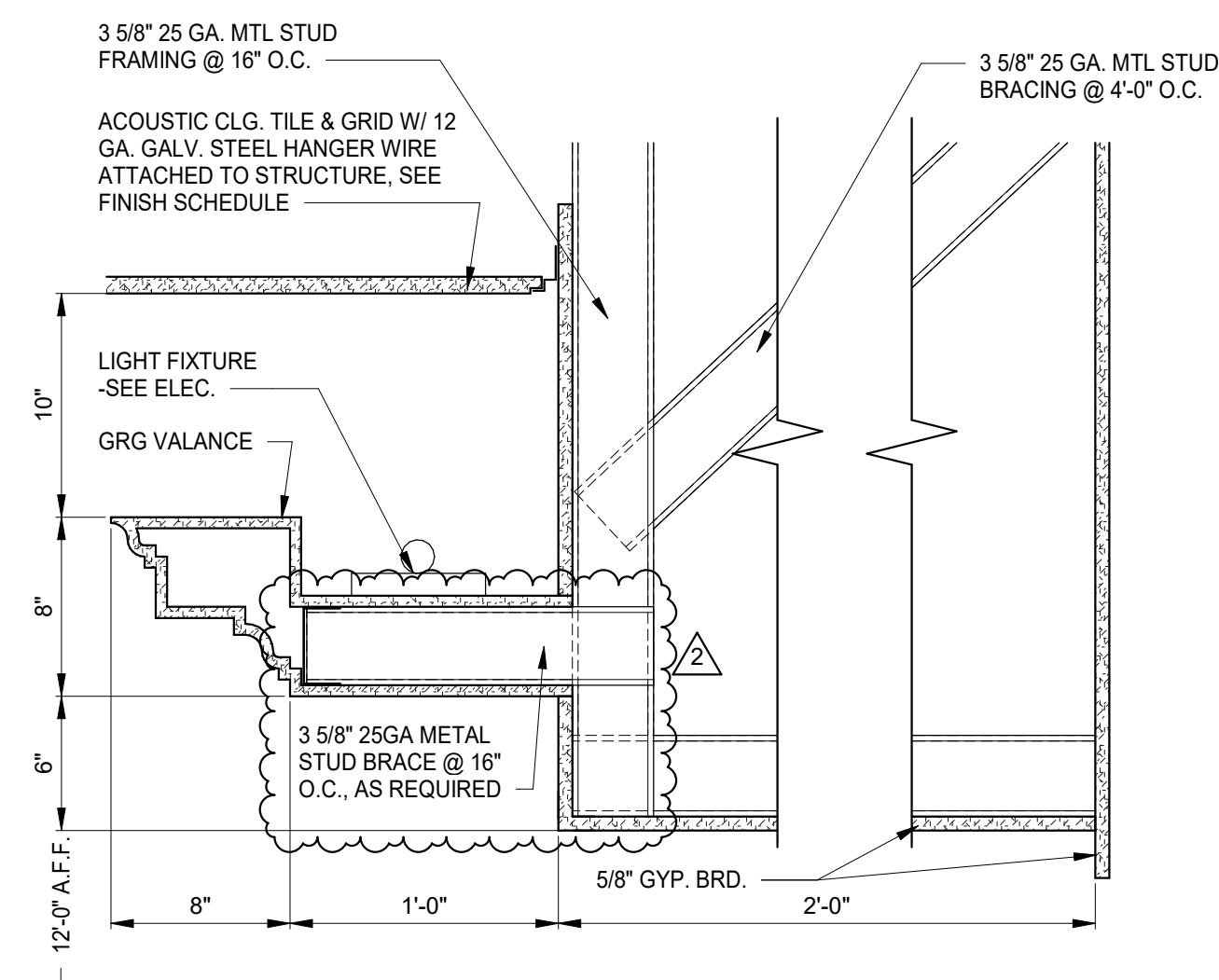
REVISIONS	ISSUED FOR BID
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2	ADDENDUM #5 03/06/2024

JOB NO. 2218

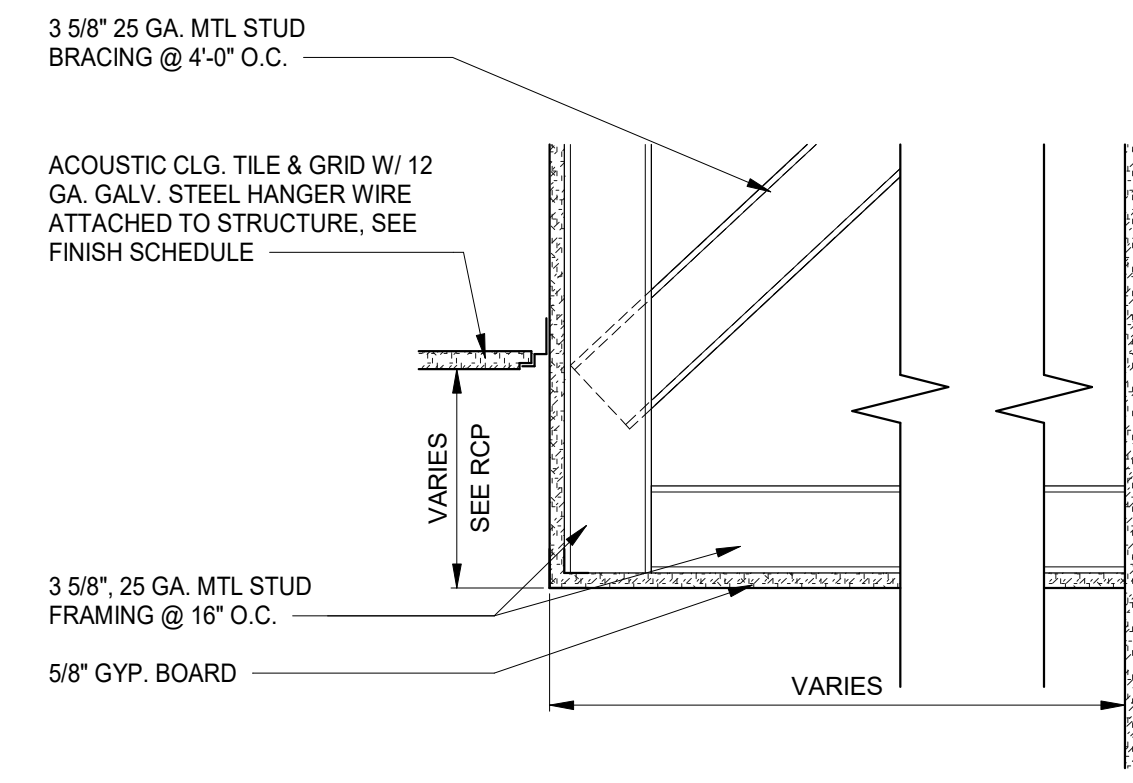
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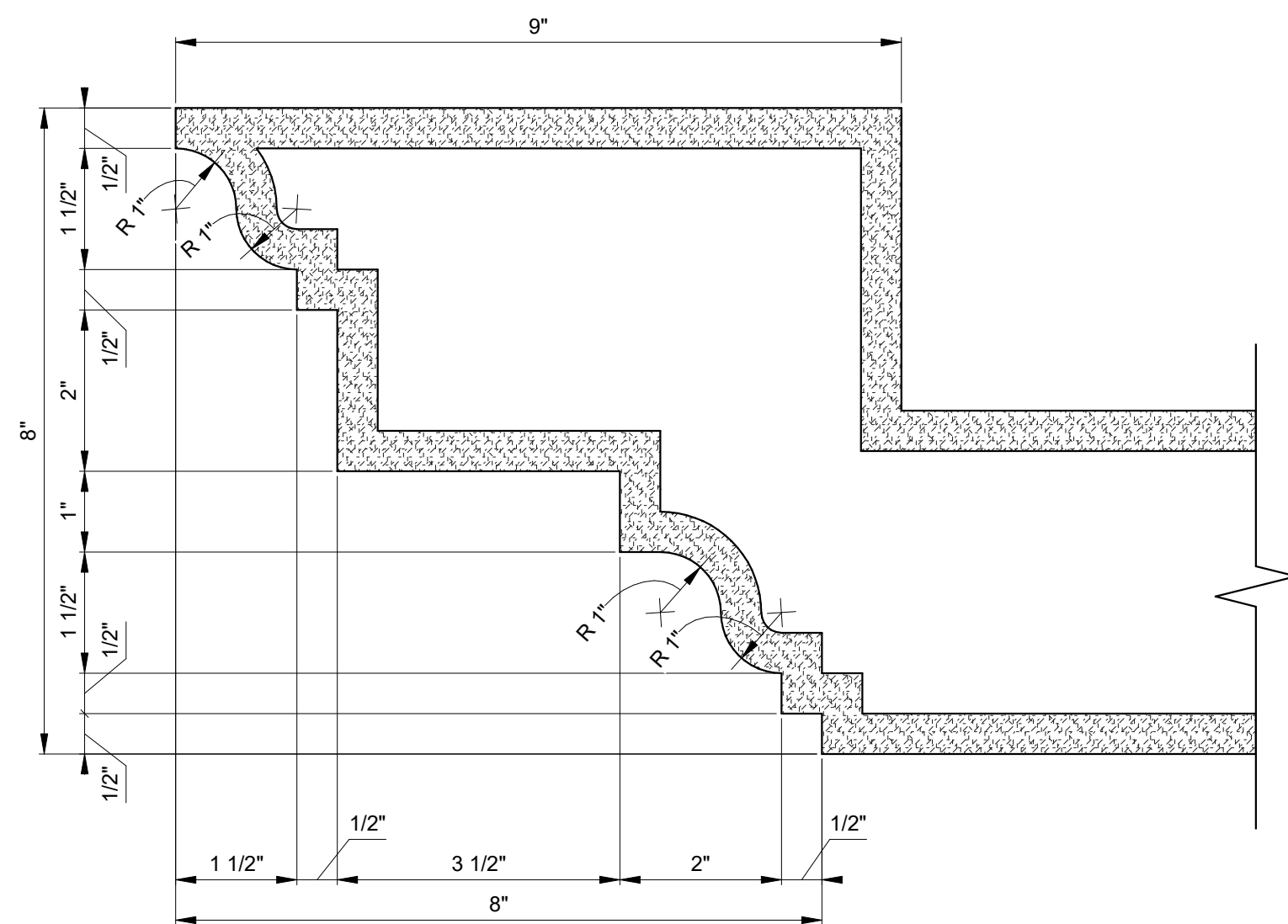
9 CEILING DETAIL - BULKHEAD DETAIL  
A3.3 SCALE: 1 1/2" = 1'-0"



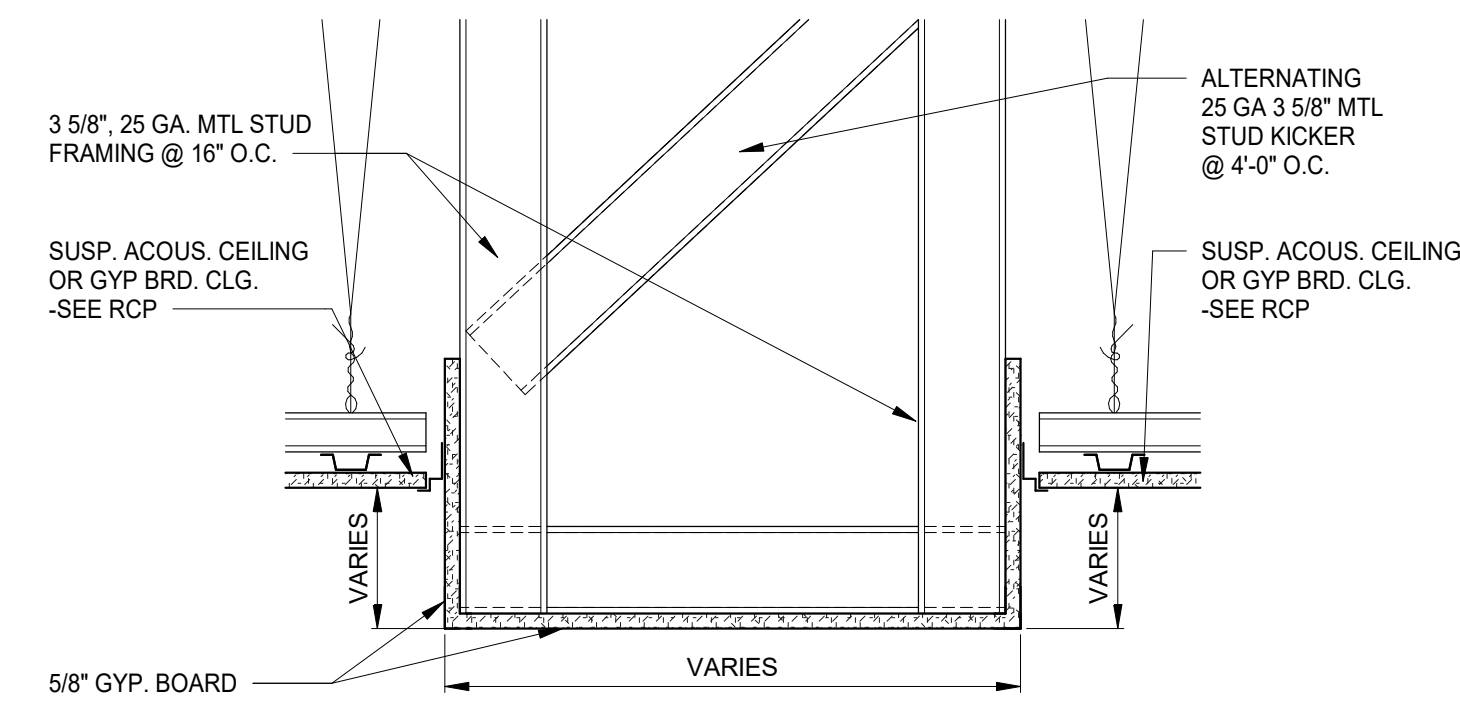
5 CEILING DETAIL - BULKHEAD DETAIL  
A3.3 SCALE: 1 1/2" = 1'-0"



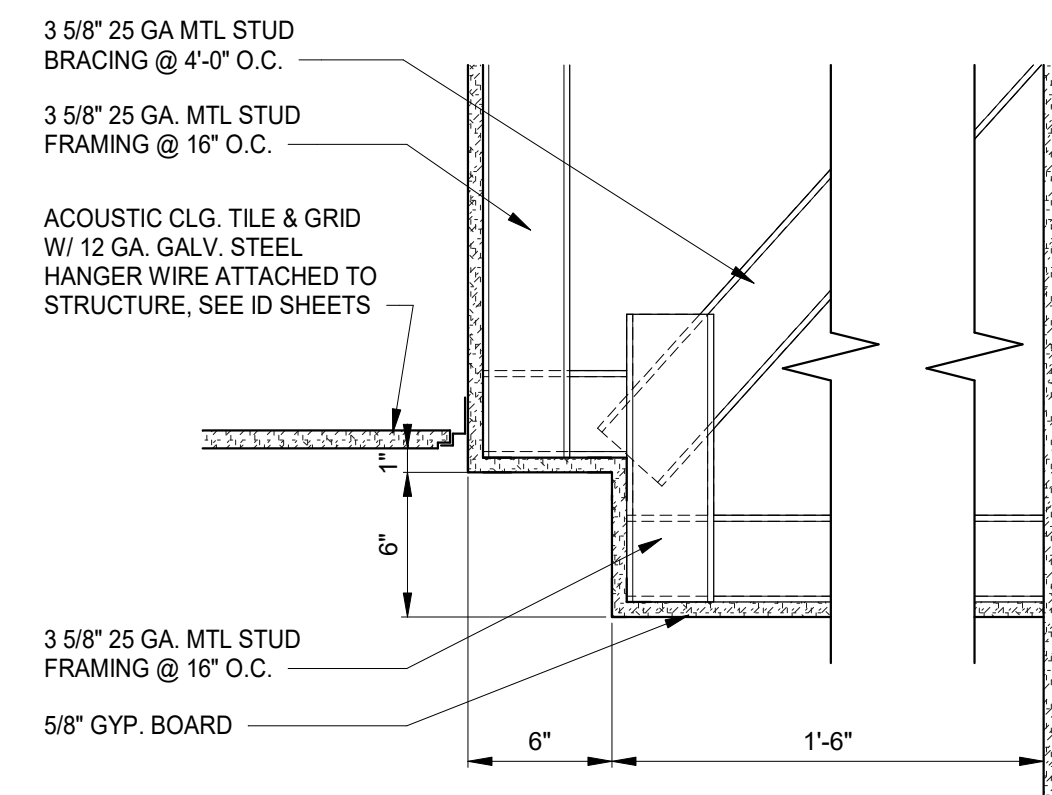
1 CEILING DETAIL @ BULKHEAD  
A3.3 SCALE: 1 1/2" = 1'-0"



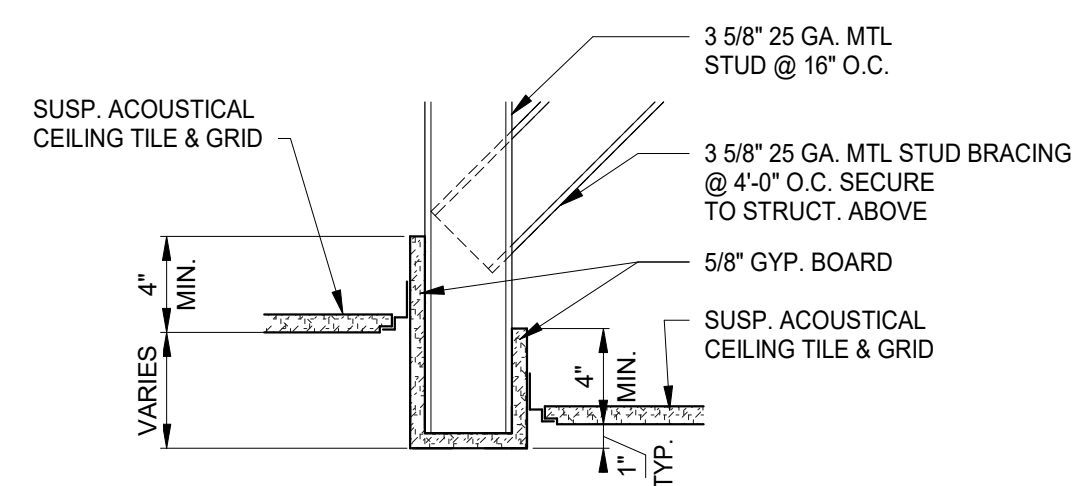
10 GLASS FIBER REINFORCED GYPSUM PROFILE  
A3.3 SCALE: 6" = 1'-0"



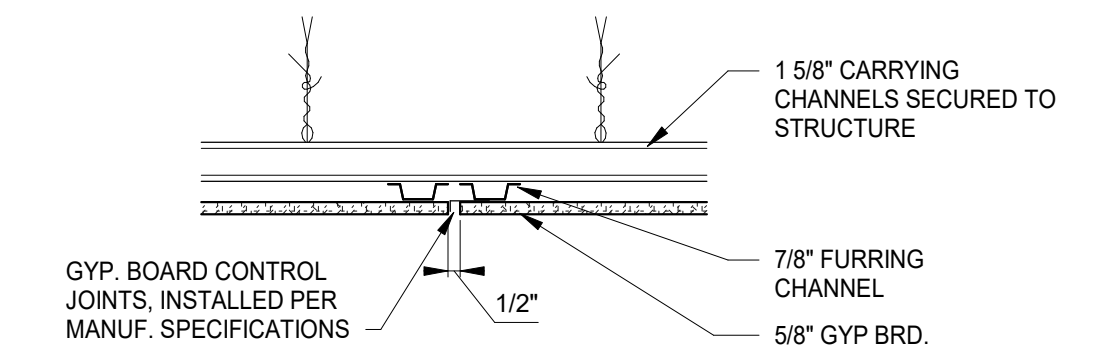
6 CEILING DETAIL - BULKHEAD DETAIL  
A3.3 SCALE: 1 1/2" = 1'-0"



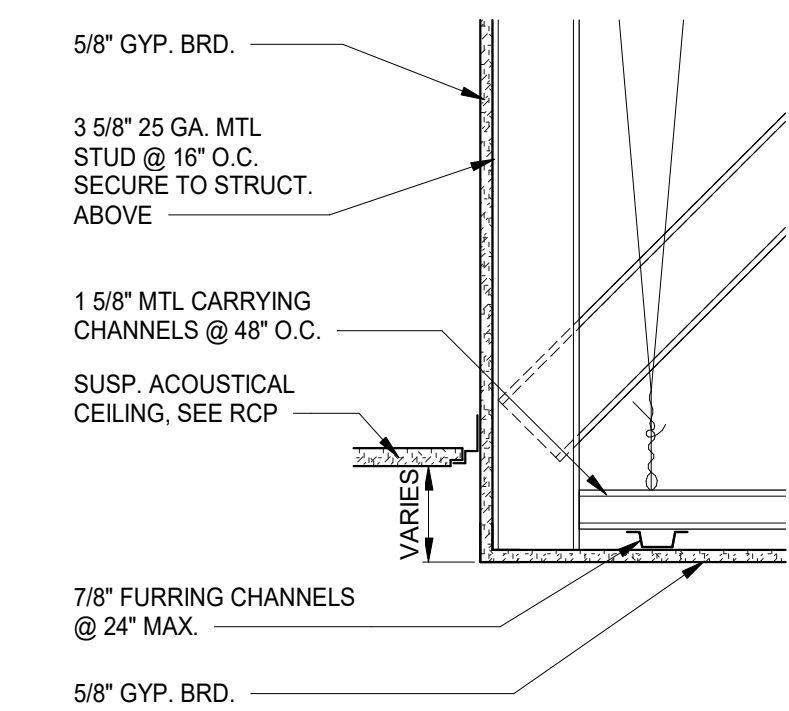
2 CEILING DETAIL - BULKHEAD DETAIL  
A3.3 SCALE: 1 1/2" = 1'-0"



7 CEILING DETAIL - BULKHEAD DETAIL  
A3.3 SCALE: 1 1/2" = 1'-0"

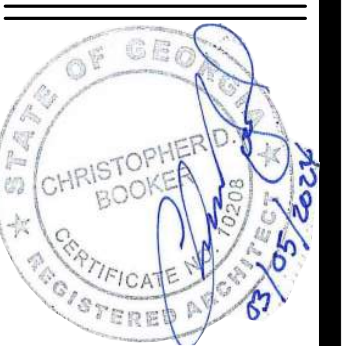


3 CEILING DETAIL - SUSPENDED GWB CONTROL JOINT  
A3.3 SCALE: 1 1/2" = 1'-0"



4 CEILING DETAIL - BULKHEAD DETAIL  
A3.3 SCALE: 1 1/2" = 1'-0"

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CHK'D BY: CB  
DATE: JANUARY 29, 2024

REVISIONS	ISSUED FOR BID
0	01/29/2024
2	ADDENDUM #5 03/06/2024

JOB NO. 2218  
SHEET NO.

DOOR SCHEDULE - FIRST FLOOR

DOOR NO.	PANEL MATERIAL	CONFIG.	SIZE			FRAME			SIGN TYPE	NOTE & REMARKS
			WIDTH	HEIGHT	THICKNESS	MATERIAL	CONFIG.			
1016	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
1028B	S.C. BIRCH	12	3'-0"	7'-0"	1 3/4"	HM	H	B, C, M	90 MINUTE RATED, PANIC BAR, LEVER, CLOSER	
1028C	G.H.M.	8	3'-0"	7'-0"	1 3/4"	HM	H		CARD READER, LEVER, PANIC BAR, CLOSER, THRESHOLD	
1032	S.C. BIRCH-DB OPPOSING	2	6'-0"	8'-0"	1 3/4"	HM	C	K	60 MINUTE RATED, HOLD OPEN DEVICES, PANIC BARS, LEVERS, CLOSERS	
1033	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER	
1034A	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER	
1034B	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
1036	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	CARD READER, LEVER LOCKSET, CLOSER	
1037	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
1038	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
1039	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1040	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1041	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1042	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1043	G.H.M.	8	3'-0"	7'-0"	1 3/4"	HM	G	L	FOLGER ADAM MODEL D9305 (KEYED EXTERIOR SIDES), CLOSER.	
1044	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
1045	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
1047B	G.H.M.	12	3'-0"	7'-0"	1 3/4"	HM	H		PANIC BAR, LEVER, CLOSER	
1064	S.C. BIRCH	11	3'-6"	7'-0"	1 3/4"	HM	G	L	CARD READER, LEVER LOCKSET, CLOSER	
1081	S.C. BIRCH	13	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER	
1082A	S.C. BIRCH	13	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER	
1082B	S.C. BIRCH	13	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1085A	S.C. BIRCH-DUTCH	16	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1085B	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER	
1117	S.C. BIRCH	1	3'-0"	8'-0"	1 3/4"	HM	A	K	60 MINUTE RATED, LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
1117A	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1131A	G.H.M.	8	3'-0"	7'-0"	1 3/4"	HM	H		CARD READER, LEVER, PANIC BAR, CLOSER, THRESHOLD	
1131B	S.C. BIRCH	7	3'-0"	8'-0"	1 3/4"	HM	E	B, C, M	90 MINUTE RATED, PANIC BAR, LEVER, CLOSER	
1132A	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	H	B, C, M	90 MINUTE RATED, PANIC BAR, LEVER, CLOSER	
1134	S.C. BIRCH-DB OPPOSING	4	8'-0"	8'-0"	1 3/4"	HM	C	K	60 MINUTE RATED, CARD READER, HOLD OPEN DEVICES, PANIC BARS, LEVERS, CLOSERS, (DELAYED EGRESS)	
1135	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET, CLOSER	
1136	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET, CLOSER	
1162A	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	H	LEVER LOCKSET, CLOSER	
1162B	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	H	LEVER LOCKSET, CLOSER	
1163	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
1164	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1165	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1166	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1167	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1168	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1169	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1170	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1171	S.C. BIRCH	13	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
1172	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1173	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1174	S.C. BIRCH	13	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
1175	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1176	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1177	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1178	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1179	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1180	S.C. BIRCH	13	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
1181	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1182	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1183	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
1184	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET, CLOSER	
1185A	G.H.M.	8	3'-0"	7'-0"	1 3/4"	HM	H		CARD READER, LEVER, PANIC BAR, CLOSER, THRESHOLD	
1185B	S.C. BIRCH	11	3'-0"	7'-0"	1 3/4"	HM	G	C, M	90 MINUTE RATED, PANIC BAR, LEVER, CLOSER	
1186	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
1187	S.C. BIRCH	13	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1188	S.C. BIRCH	13	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1189	S.C. BIRCH	13	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET	
1192	S.C. BIRCH	13	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET	
E-1000A	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-1000B	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-1000C	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-1001A	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	K	CARD READER, LEVER LOCKSET, CLOSER	
E-1003	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	K	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
E-1012	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	L	--	
E-1013	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1028A	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	M	--	
E-1029	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1031B	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	

DOOR SCHEDULE - FIRST FLOOR

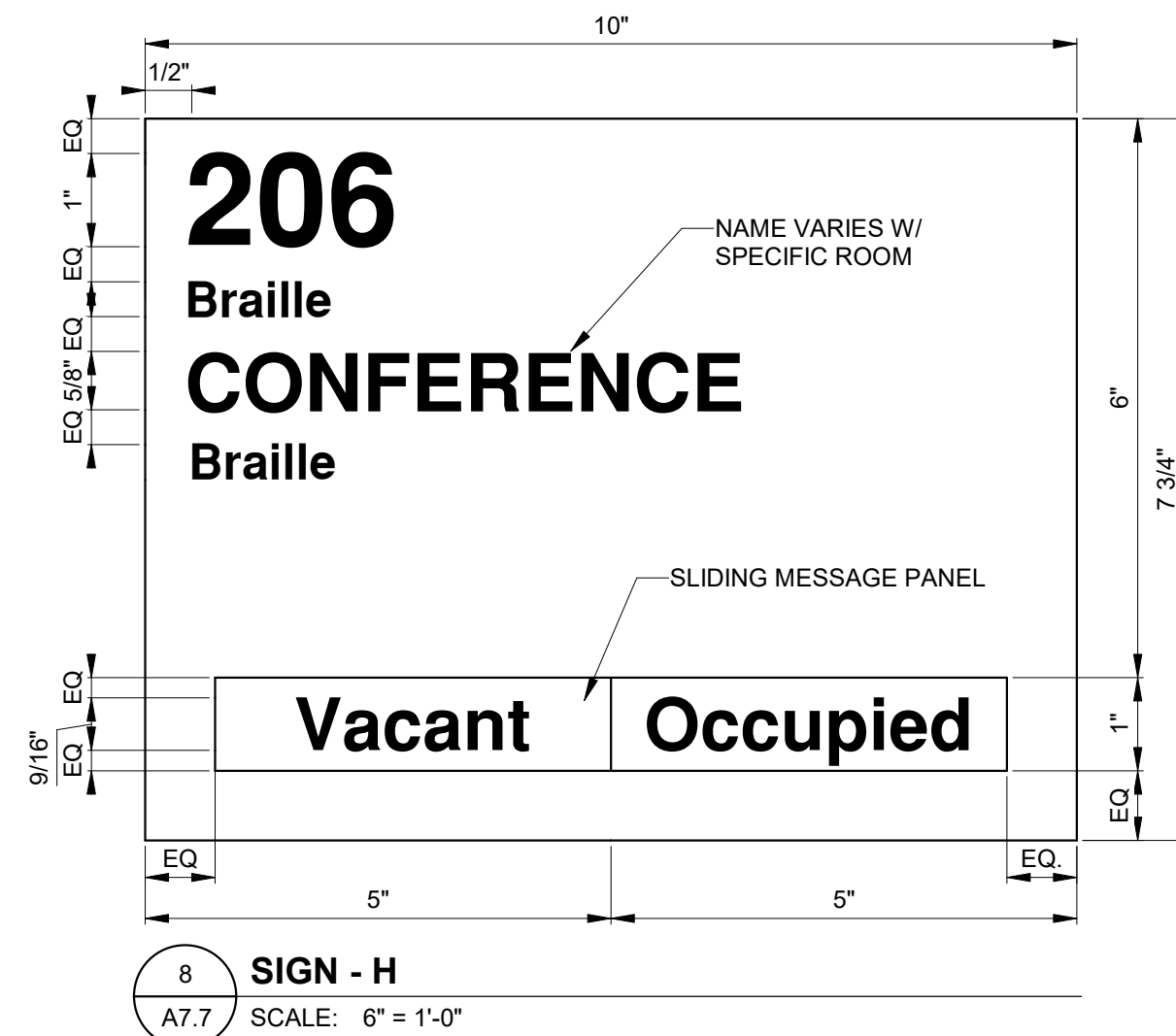
DOOR NO.	PANEL MATERIAL	CONFIG.	SIZE			FRAME			SIGN TYPE	NOTE & REMARKS
			WIDTH	HEIGHT	THICKNESS	MATERIAL	CONFIG.			
E-1035	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1047A	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1048	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1048A	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1049	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1049A	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1050	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1051	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1052	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	CARD READER, LEVER LOCKSET, CLOSER	
E-1053	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1054	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1055	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1056	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1057	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1058	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1059	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1060	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1061	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1062	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1062A	EXISTING	--	6'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1063	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1064	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1065	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1069	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1070	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	L	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
E-1072	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1073	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1074	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1075	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	K	CARD READER, LEVER LOCKSET, CLOSER	
E-1076	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	K	--	
E-1077	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1078	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1079	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1080	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1082	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1086	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-1088	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1089	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	L	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
E-1090	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	L	CARD READER, LEVER LOCKSET, CLOSER	
E-1093A	EXISTING	--	3'-4"	7'-4"	1 3/4"	--	--	--	--	
E-1094	EXISTING	--	3'-4"	7'-4"	1 3/4"	--	--	--	--	
E-1095	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1096	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1097	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1098	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1099	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1101	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	L	--	
E-1102	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1103	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1104	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1105	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1106	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1107	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-1108A	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--		

DOOR SCHEDULE - SECOND FLOOR										
DOOR NO.	PANEL MATERIAL	CONFIG.	WIDTH	HEIGHT	THICKNESS	FRAME MATERIAL	CONFIG.	SIGN TYPE	NOTE & REMARKS	
2003	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	H	LEVER LOCKSET	
2004	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	H	LEVER LOCKSET	
2005A	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	H	LEVER LOCKSET, CLOSER	
2005B	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	H	LEVER LOCKSET, CLOSER	
2006	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	H	LEVER LOCKSET	
2007	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	H	LEVER LOCKSET	
2014	S.C. BIRCH	2	6'-0"	8'-0"	1 3/4"	HM	B	K	60 MINUTE RATED, PANIC BAR, LEVER, CLOSERS	
2026A	S.C. BIRCH	6	3'-0"	8'-0"	1 3/4"	HM	A	K	CARD READER, PANIC BAR, LEVER, CLOSER, (DELAYED EGRESS)	
2037D	DB SWING	17	6'-0"	3'-0"	1 3/4"	WOOD	--	--	PIVOT HINGES (EACH DOOR)	
2050D	DB SWING	17	6'-0"	3'-0"	1 3/4"	WOOD	--	--	PIVOT HINGES (EACH DOOR)	
2050E	DB SWING	17	6'-0"	3'-0"	1 3/4"	WOOD	--	--	PIVOT HINGES (EACH DOOR)	
2057D	DB SWING	17	6'-0"	3'-0"	1 3/4"	WOOD	--	--	PIVOT HINGES (EACH DOOR)	
2067A	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
2080D	DB SWING	17	6'-0"	3'-0"	1 3/4"	WOOD	--	--	PIVOT HINGES (EACH DOOR)	
2087	(EX) S.C. BIRCH	--	3'-0"	8'-0"	1 3/4"	HM	A	K	LEVER LOCKSET, CLOSER	
2090	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	G	LEVER LOCKSET, CLOSER	
2095	S.C. BIRCH	1	3'-0"	8'-0"	1 3/4"	HM	A	K	60 MINUTE RATED, CARD READER, LEVER LOCKSET, CLOSER, (DELAYED EGRESS)	
2101	S.C. BIRCH	1	3'-0"	8'-0"	1 3/4"	HM	A	L	LEVER LOCKSET, CLOSER	
2102	S.C. BIRCH	1	3'-0"	8'-0"	1 3/4"	HM	A	L	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
2103A	S.C. BIRCH	2	6'-0"	8'-0"	1 3/4"	HM	B	K	PANIC BARS, LEVERS, CLOSERS	
2103B	S.C. BIRCH	2	6'-0"	8'-0"	1 3/4"	HM	B	K	PANIC BARS, LEVERS, CLOSERS	
2104	S.C. BIRCH	1	3'-0"	8'-0"	1 3/4"	HM	A	D	PUSH/PULL, CLOSER	
2105	S.C. BIRCH	1	3'-0"	8'-0"	1 3/4"	HM	A	E	PUSH/PULL, CLOSER	
2121	S.C. BIRCH	1	3'-0"	8'-0"	1 3/4"	HM	A	L	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
2122	S.C. BIRCH	1	3'-0"	8'-0"	1 3/4"	HM	A	H	LEVER LOCKSET, CLOSER	
2123	S.C. BIRCH	1	3'-0"	8'-0"	1 3/4"	HM	A	H	LEVER LOCKSET, CLOSER	
2124	G.H.M.	9	3'-0"	7'-0"	1 3/4"	STEEL	J	H	SOLENOID OPER. ELECTRO-MECHANICAL DEALATCH FOLGER ADAM MODEL 120E/126 (KEYED BOTH SIDES)	
2125	G.H.M.	9	3'-0"	7'-0"	1 3/4"	STEEL	J	H	SOLENOID OPER. ELECTRO-MECHANICAL DEALATCH FOLGER ADAM MODEL 120E/126 (KEYED BOTH SIDES)	
2127	G.H.M.	8	3'-0"	7'-0"	1 3/4"	HM	H	L	LEVER LOCKSET, CLOSER	
2128	MTL SLIDING	14	3'-4"	7'-4"	1 3/4"	STEEL	K	L	AUTOMATIC DEADLOCK - FOLGER ADAM MODEL 30/32 (KEYED ONE SIDE)	
2129	MTL SLIDING	14	3'-4"	7'-4"	1 3/4"	STEEL	K	L	AUTOMATIC DEADLOCK - FOLGER ADAM MODEL 30/32 (KEYED ONE SIDE)	
2130	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	H	B, C, M	90 MINUTE RATED, PANIC BAR, LEVER, CLOSER	
2131	G.H.M.	8	3'-0"	7'-0"	1 3/4"	STEEL	J	K	CARD READER, LEVER LOCKSET, CLOSER	
2132	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	L	LEVER LOCKSET, CLOSER	
2133	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	G	LEVER LOCKSET, CLOSER	
2134	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	G	LEVER LOCKSET, CLOSER	
2136A	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	H	LEVER LOCKSET - CLASSROOM, CLOSER	
2136B	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	H	LEVER LOCKSET - CLASSROOM, CLOSER	
2137B	S.C. BIRCH	10	3'-0"	7'-0"	1 3/4"	HM	G	K	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
2138A	S.C. BIRCH	5	6'-0"	8'-0"	1 3/4"	HM	D	--	PUSH/PULL, CLOSERS	
2138B	S.C. BIRCH	6	3'-0"	8'-0"	1 3/4"	HM	E	L	CARD READER, LEVER LOCKSET, CLOSER, (DELAYED EGRESS)	
2138C	S.C. BIRCH	6	3'-0"	8'-0"	1 3/4"	HM	A	K	CARD READER, PANIC BAR, LEVER, CLOSER, (DELAYED EGRESS)	
2138D	DB SWING	17	6'-0"	3'-0"	1 3/4"	WOOD	--	--	PIVOT HINGES (EACH DOOR)	
2140	S.C. BIRCH	6	3'-0"	8'-0"	1 3/4"	HM	A	K	LEVER LOCKSET, CLOSER	
2141A	S.C. BIRCH	3	6'-0"	8'-0"	1 3/4"	HM	D	K	PANIC BARS, LEVERS, CLOSERS	
2142	S.C. BIRCH	6	3'-0"	8'-0"	1 3/4"	HM	A	K	LEVER LOCKSET, CLOSER	
2143	S.C. BIRCH-DB OPPOSING	4	8'-0"	8'-0"	1 3/4"	HM	C	K	60 MINUTE RATED, HOLD OPEN DEVICES, PANIC BARS, LEVERS, CLOSERS	
E-2000	EXISTING	--	6'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2001	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2004A	EXISTING	--	6'-0"	8'-0"	1 3/4"	--	--	K	CARD READER, LEVER LOCKSET, CLOSER, (DELAYED EGRESS)	
E-2004B	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2006	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2007	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2008	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2009	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2010	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2011	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2012	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	L	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
E-2013	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2014	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2015	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2016	EXISTING	--	6'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2017	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2018A	EXISTING	--	6'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2018B	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2019	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2020	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2020B	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2021	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2022	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2024	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2025	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2026	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2027	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	B, C, M	--	

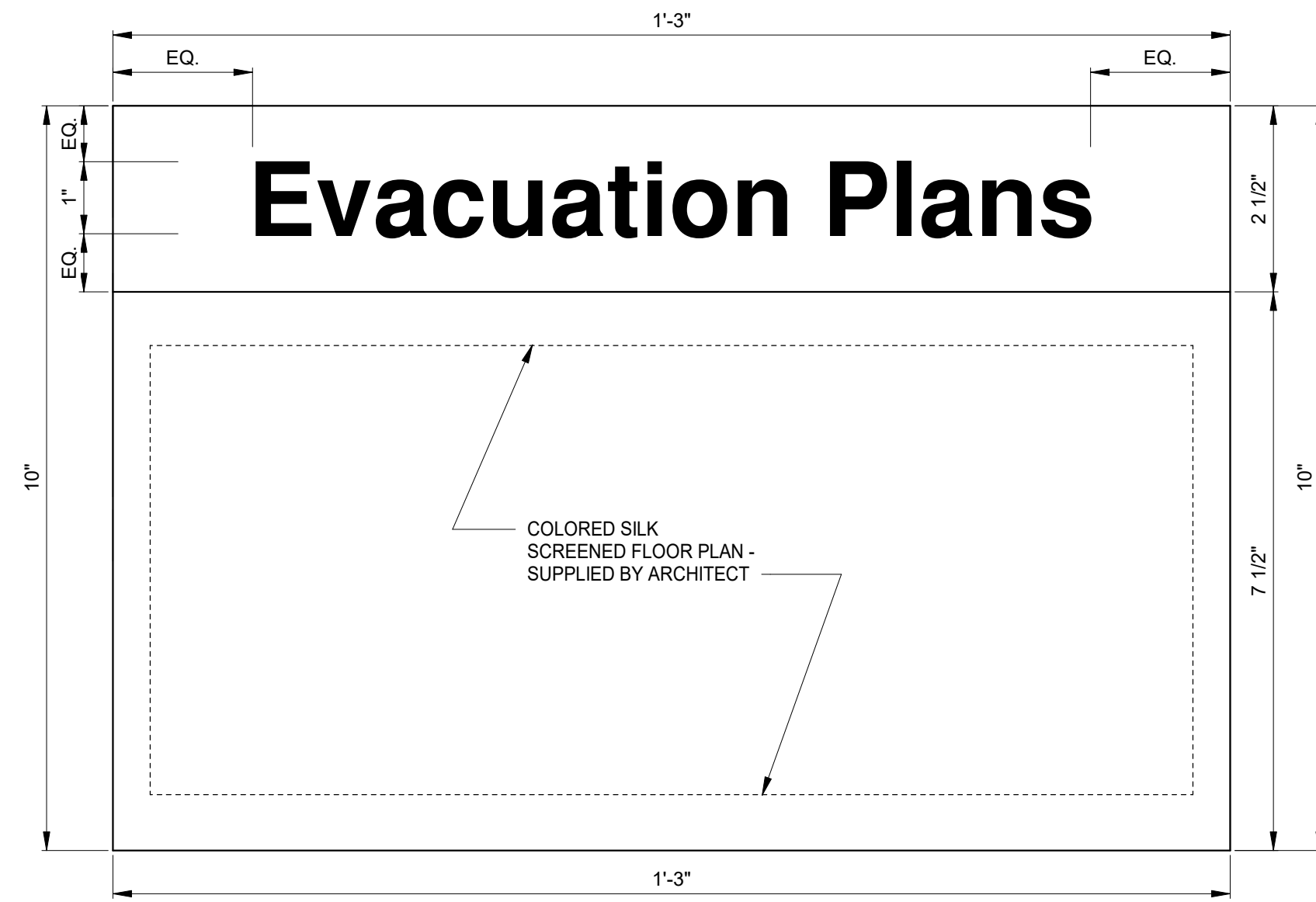
DOOR SCHEDULE - SECOND FLOOR										
DOOR NO.	PANEL MATERIAL	CONFIG.	WIDTH	HEIGHT	THICKNESS	FRAME MATERIAL	CONFIG.	SIGN TYPE	NOTE & REMARKS	
E-2029	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2030	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2032	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2033	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2034A	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2034B	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2035	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2037A	EXISTING	--	6'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2037B	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2037C	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2038	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2039	EXISTING	--	6'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2040	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2041	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	L	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
E-2042A	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2043	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2044	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2045	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2046	EXISTING	--	3'-4"	7'-4"	1 3/4"	--	--	--	--	
E-2047	EXISTING	--	3'-4"	7'-4"	1 3/4"	--	--	--	--	
E-2048	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2049	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2050A	EXISTING	--	6'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2050C	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2051A	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2051B	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2053A	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2053B	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2054	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2055	EXISTING	--	6'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2056	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2057A	EXISTING	--	6'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2057B	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2057C	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2058	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2059A	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2059B	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2061	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2063	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2065	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2066	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2068	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2069	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2071	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2072	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2073	EXISTING	--	3'-4"	7'-4"	1 3/4"	--	--	--	--	
E-2074	EXISTING	--	3'-4"	7'-4"	1 3/4"	--	--	--	--	
E-2076	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2077	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2078	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2079	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	L	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
E-2080A	EXISTING	--	6'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2080B	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2080C	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	K	CARD READER, LEVER LOCKSET, CLOSER, (DELAYED EGRESS)	
E-2081	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2082	EXISTING	--	6'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2083	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2086	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	K	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
E-2089	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	K	LEVER LOCKSET, CLOSER, ALARM LOCK WIRELESS KEY-PAD LOCKSET	
E-2089A	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	K	--	
E-2092	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	K	--	
E-2093	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2094	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
E-2096	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	
E-2184	EXISTING	--	3'-0"	8'-0"	1 3/4"	--	--	--	--	

DOOR SCHEDULE - ROOF										
DOOR NO.	PANEL MATERIAL	CONFIG.	WIDTH	HEIGHT	THICKNESS	FRAME MATERIAL	CONFIG.	SIGN TYPE	NOTE & REMARKS	
E-R002	EXISTING	--	3'-0"	7'-0"	1 3/4"	--	--	--	--	
R001	G.H.M.	8	3'-0"	7'-0"	1 3/4"	HM	F	--	LEVER LOCKSET, CLOSER, THRESHOLD	
R003	G.H.M.</									

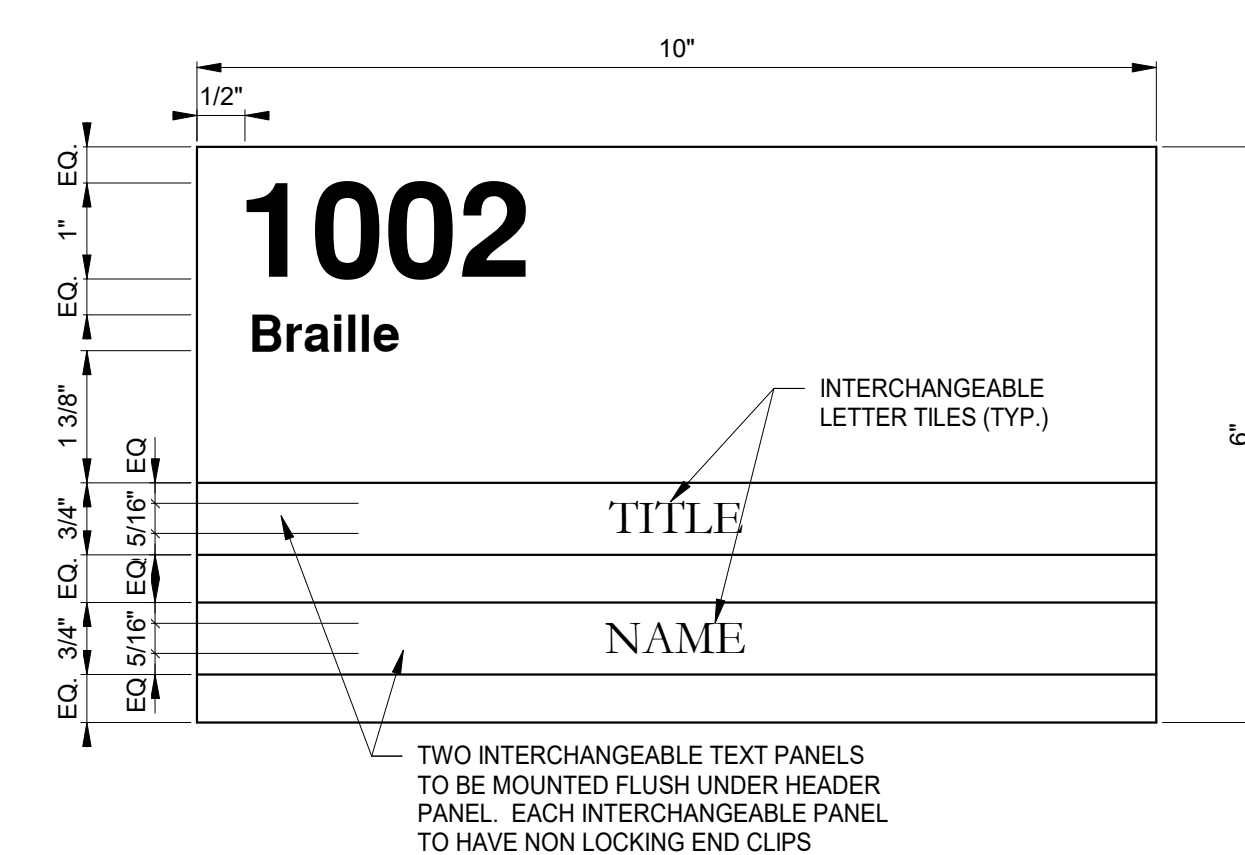




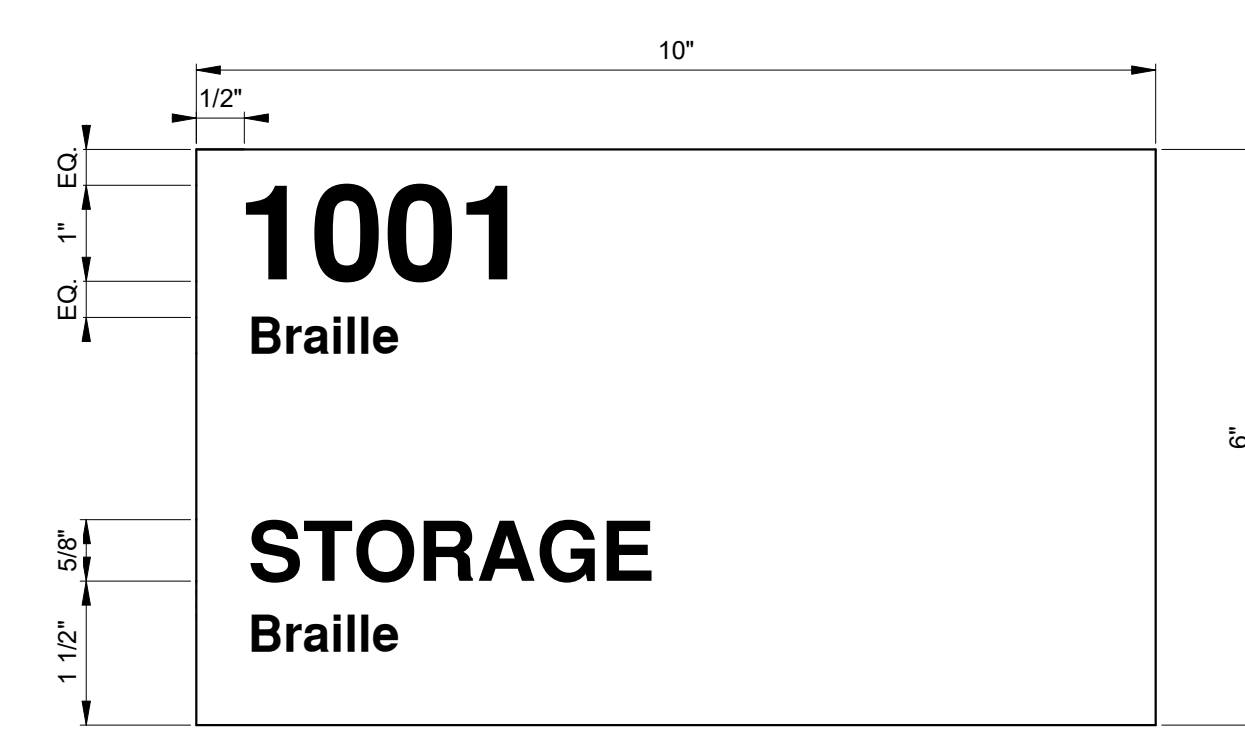
8 SIGN - H  
A7.7 SCALE: 6" = 1'-0"



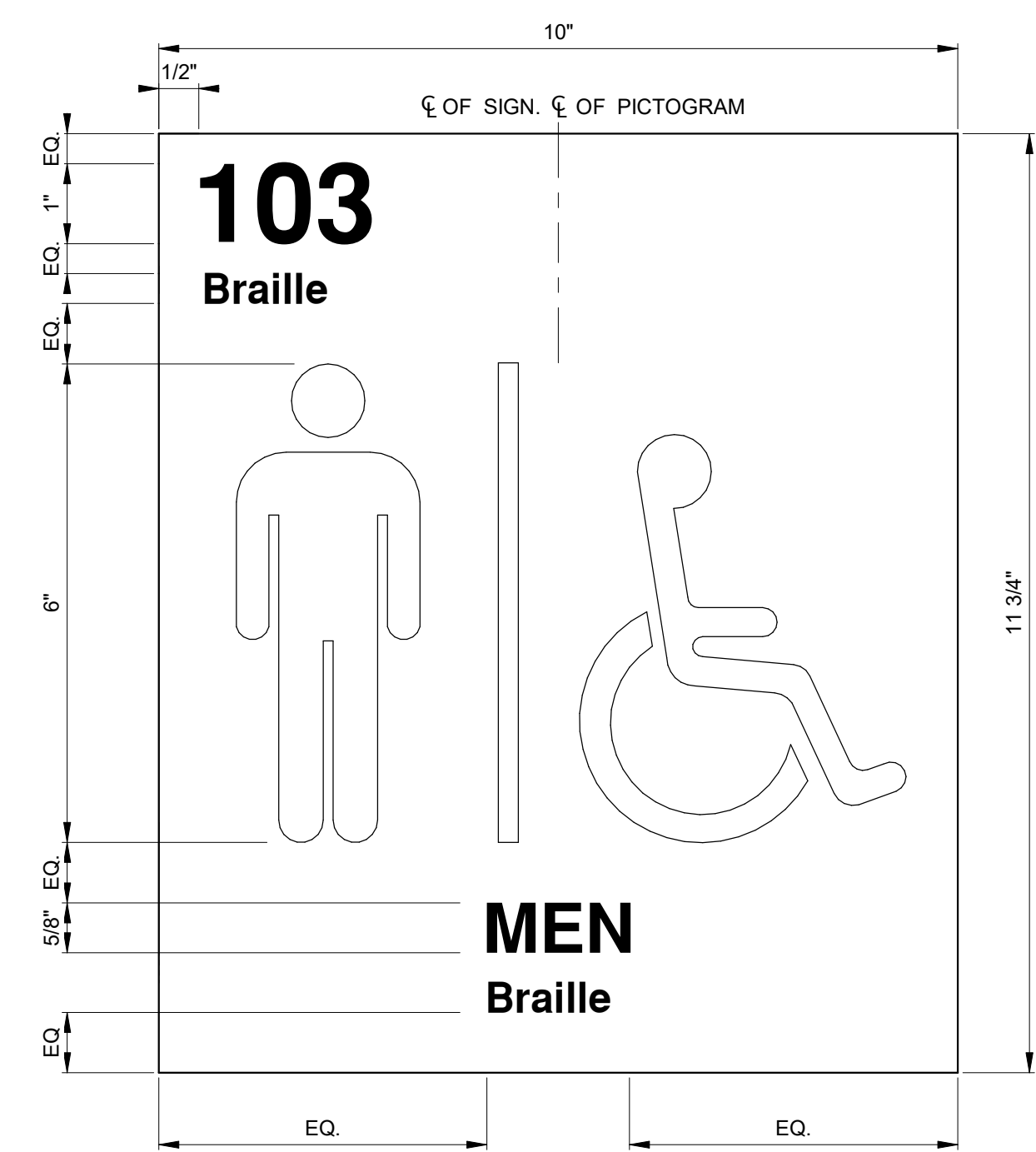
9 SIGN - J  
A7.7 SCALE: 6" = 1'-0"



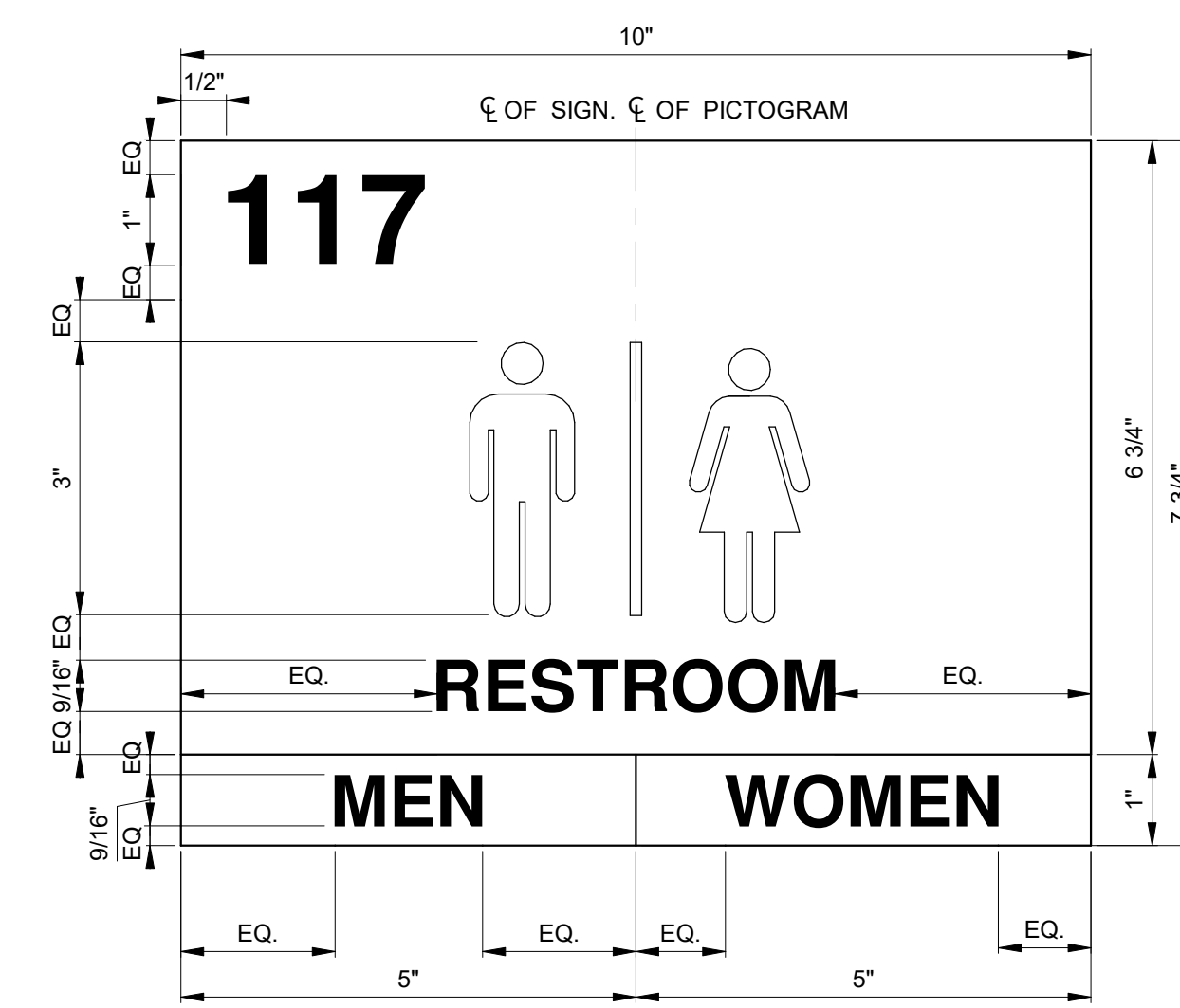
10 SIGN - K  
A7.7 SCALE: 6" = 1'-0"



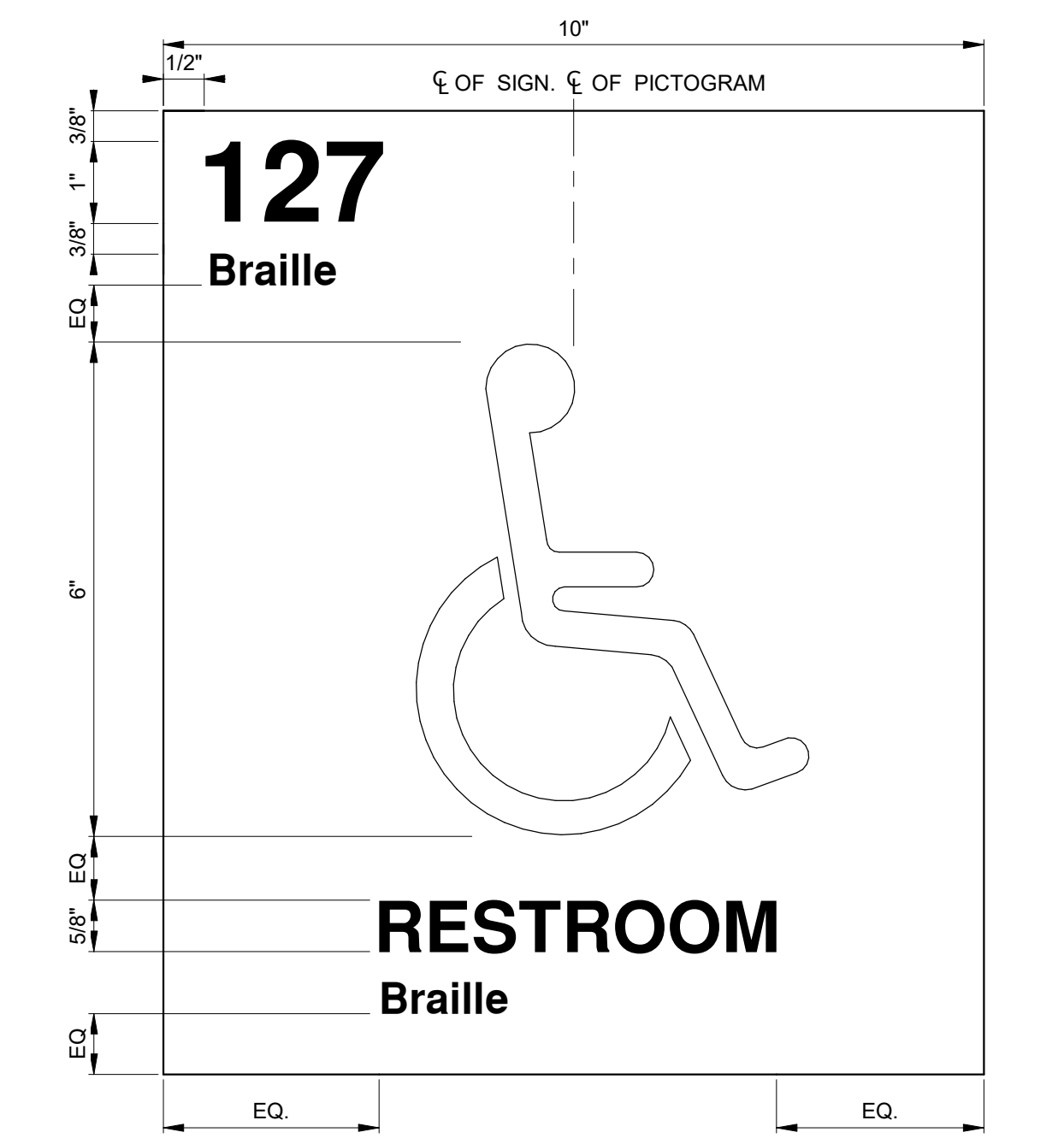
11 SIGN - L  
A7.7 SCALE: 6" = 1'-0"



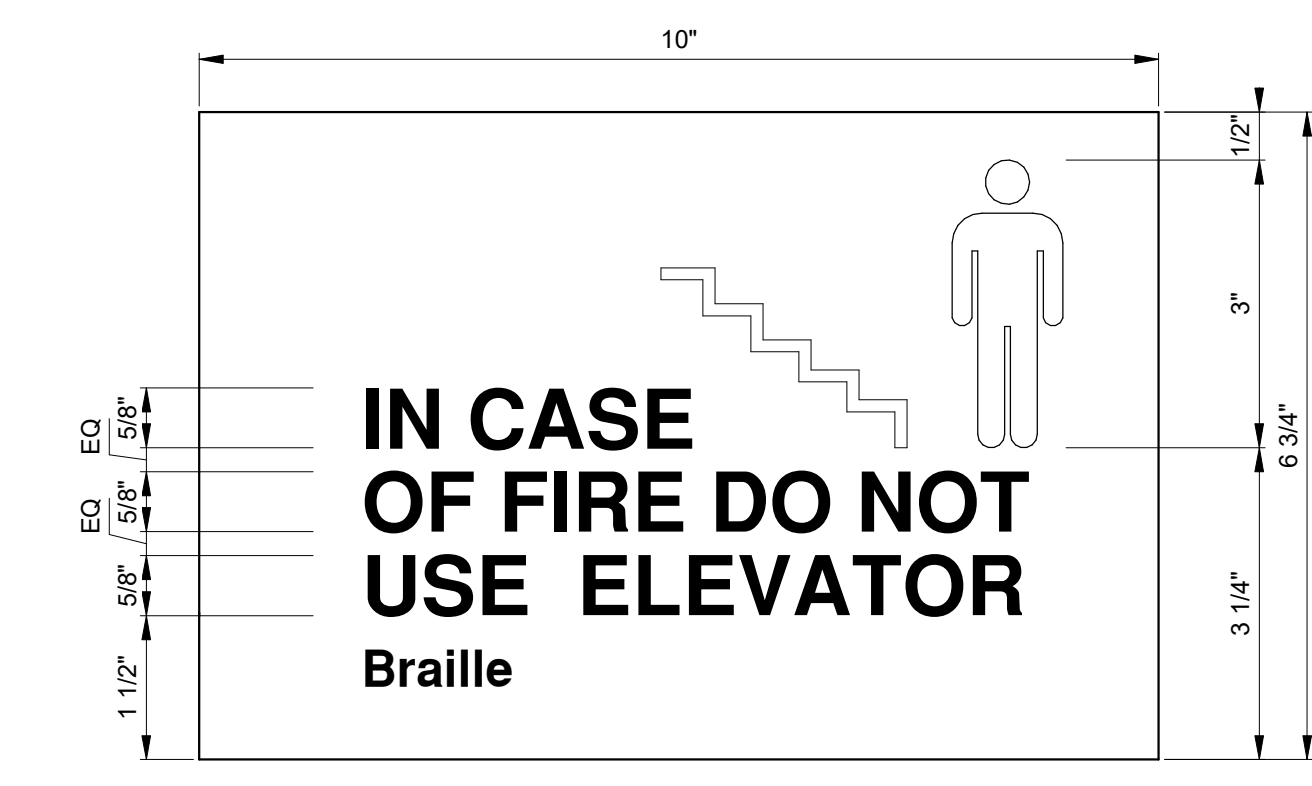
5 SIGN - E  
A7.7 SCALE: 6" = 1'-0"



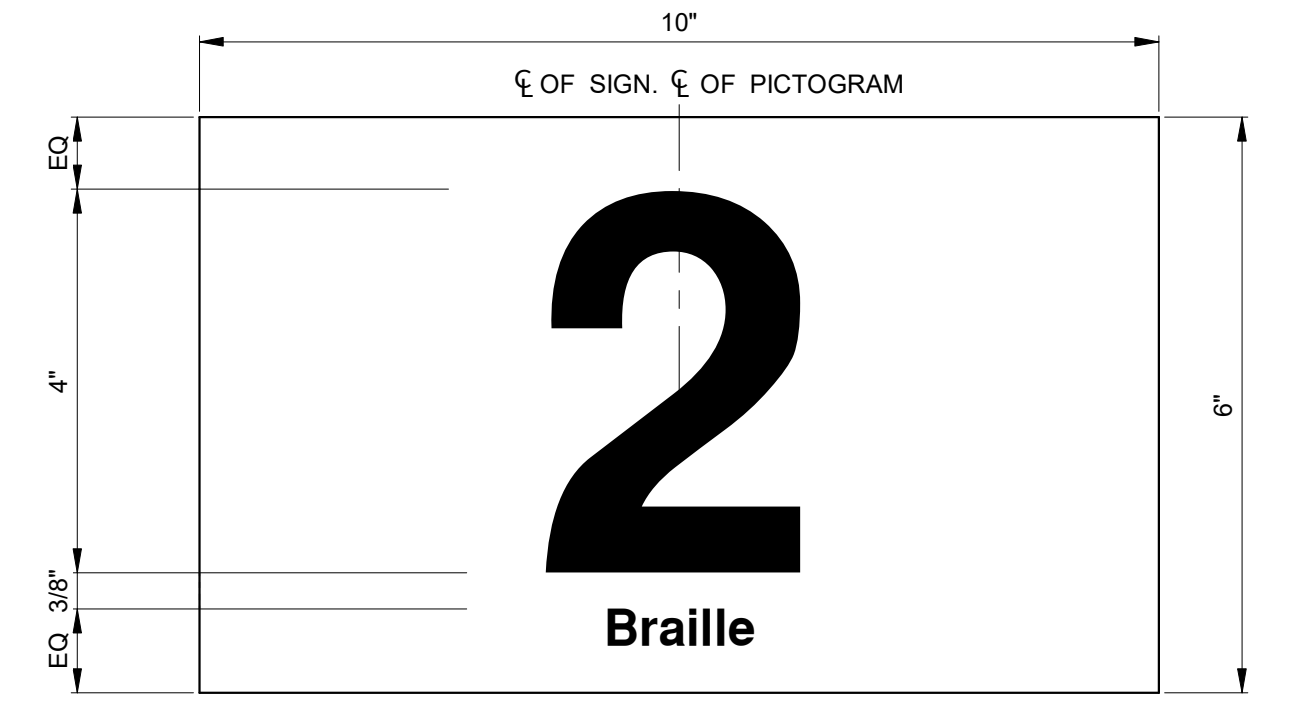
6 SIGN - F  
A7.7 SCALE: 6" = 1'-0"



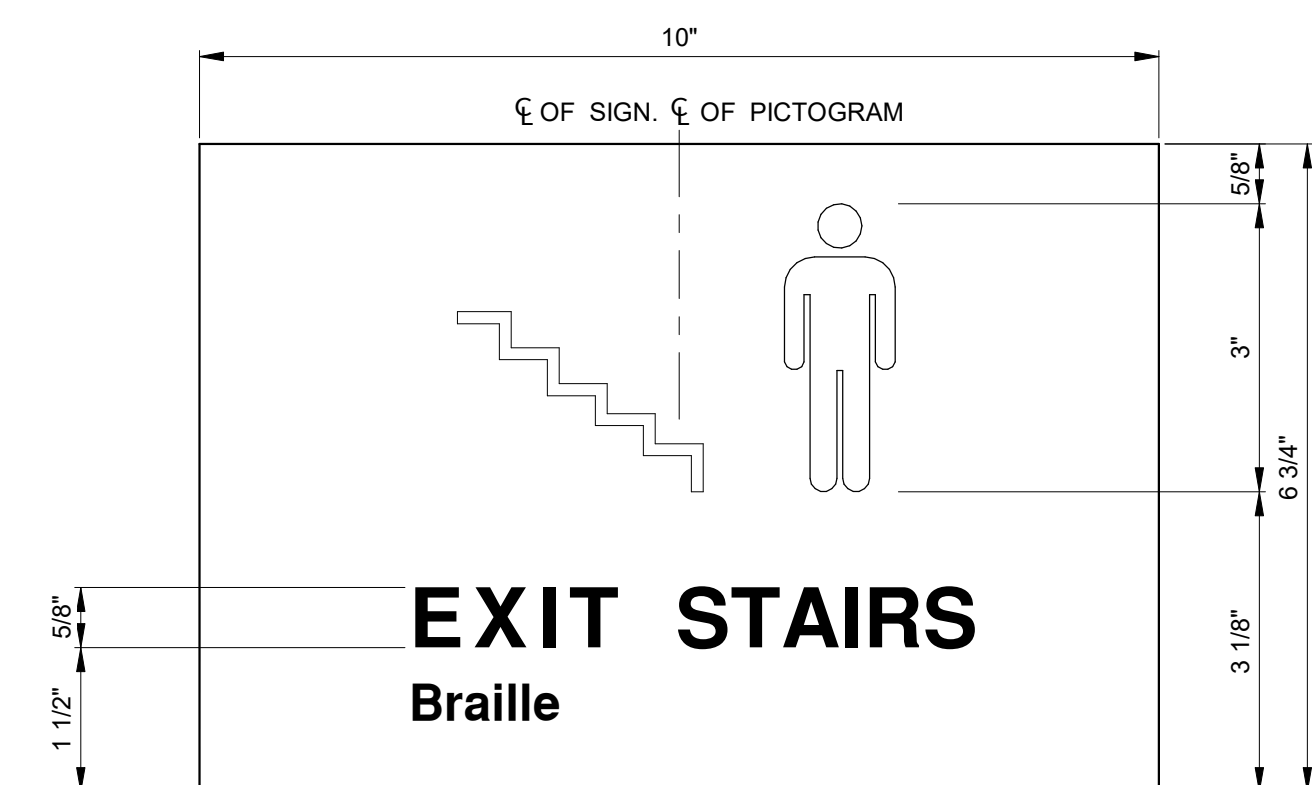
7 SIGN - G  
A7.7 SCALE: 6" = 1'-0"



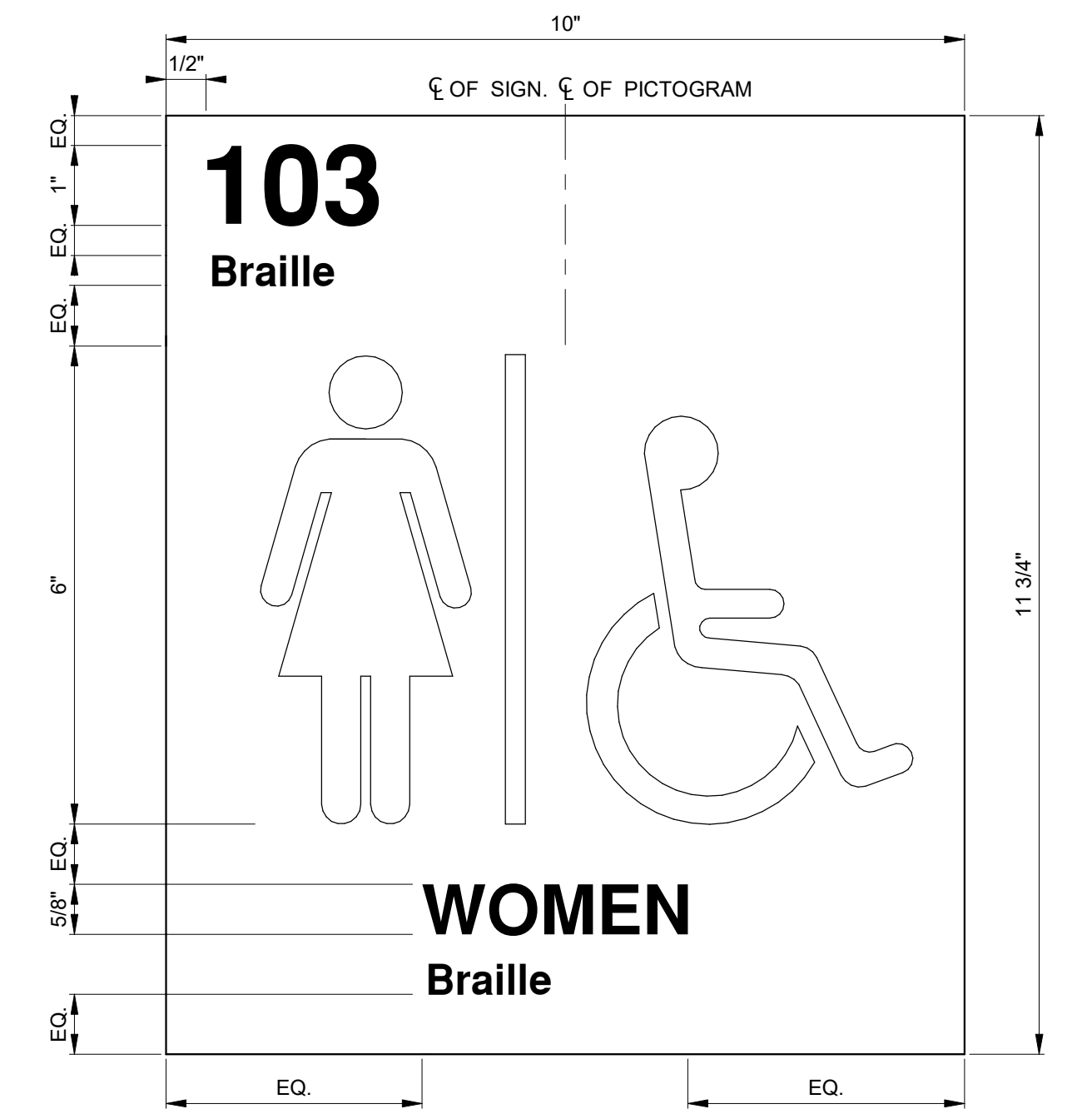
1 SIGN - A  
A7.7 SCALE: 6" = 1'-0"



2 SIGN - B  
A7.7 SCALE: 6" = 1'-0"

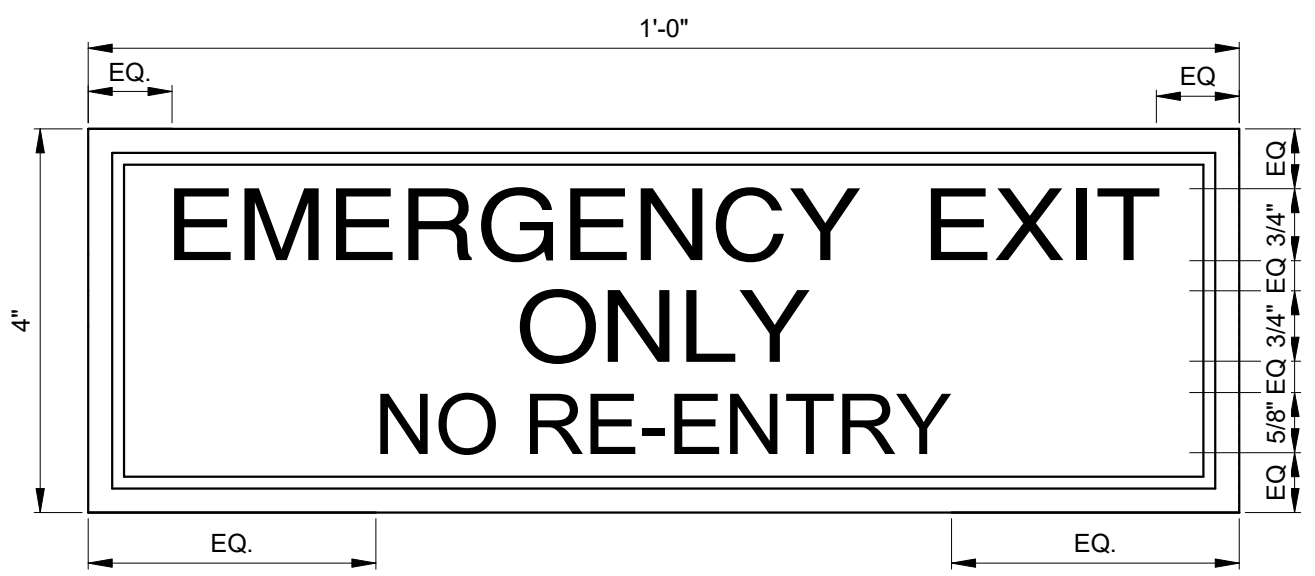


3 SIGN - C  
A7.7 SCALE: 6" = 1'-0"



4 SIGN - D  
A7.7 SCALE: 6" = 1'-0"

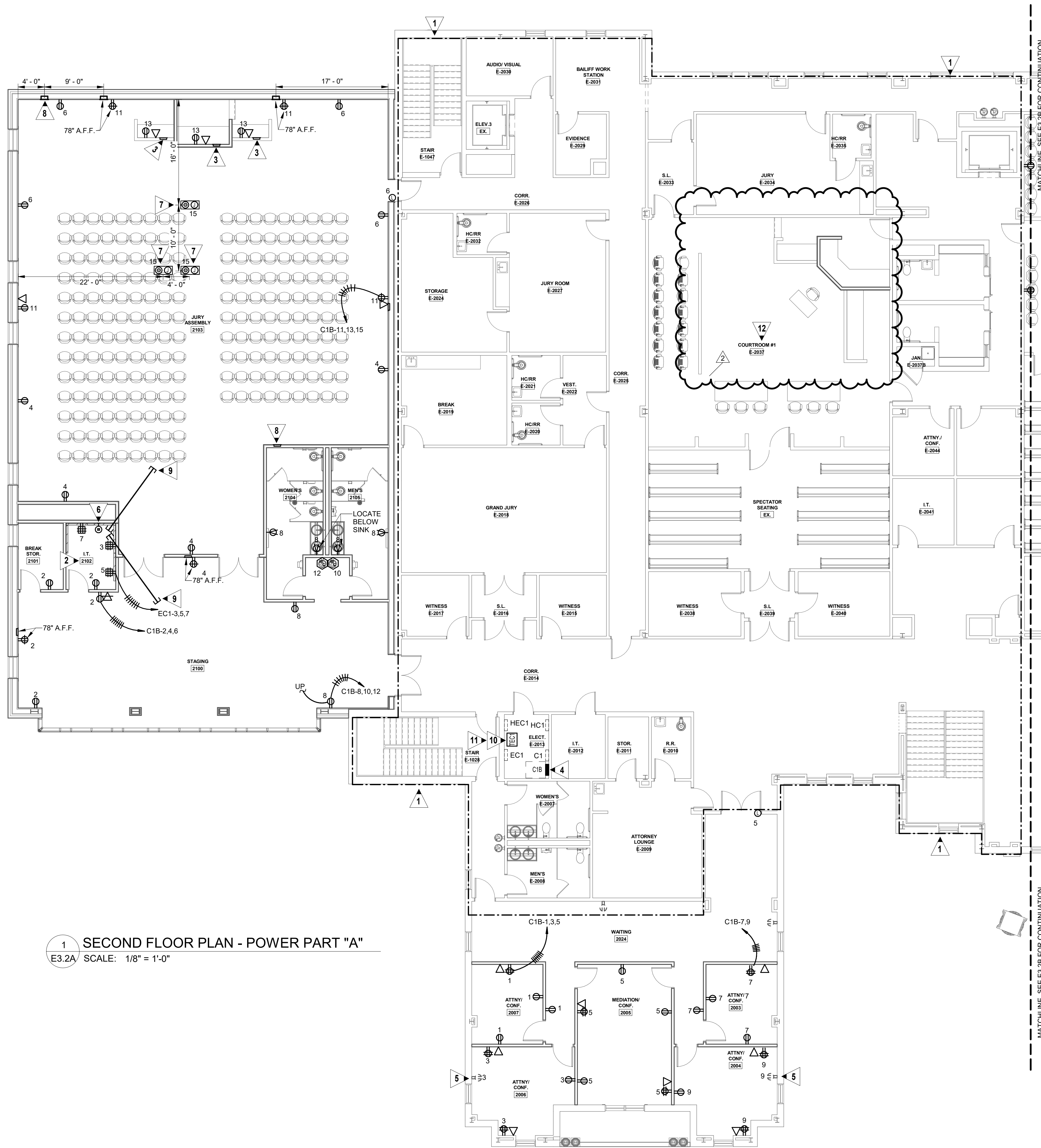
- GENERAL SIGN NOTES & FINISHES**
- THE GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING SIGNS TO ENSURE ALL NEW SIGNS MATCH EXISTING.
  - ALL EXISTING SIGNS IN CONSTRUCTION AREAS SHOULD BE REMOVED, STORED, AND REINSTALLED AFTER COMPLETION OF WORK. IF AN EXISTING SIGN IS DAMAGED OR DOES NOT MATCH THE ROOM NAME WITH WHICH IT IS ASSOCIATED, IT SHOULD BE REPLACED. IF THE SIGN STYLE IS A BLADE SIGN IT SHOULD BE RELOCATED OVER THE MAIN ENTRY DOOR TO EACH NEW SUITE LOCATION (MAGISTRATE COURT, PROBATE COURT, CLERK OF COURTS, SUPERIOR COURT).
  - ALL NEW SIGNS WITH TACTILE CHARACTERS SHALL BE LOCATED 48" MINIMUM ABOVE FINISH FLOOR OR GROUND SURFACE MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60" MAXIMUM ABOVE FINISH FLOOR OR GROUND SURFACE FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
  - THE FOLLOWING IS A DESCRIPTION OF THE LETTERING TO BE USED ON EACH SIGN:  
METHOD: SILKSCREEN PRINTED TEXT, UNLESS NOTED OTHERWISE (FOR INTERCHANGEABLE LETTER TILES FOR SIGN TYPES K, SEE NOTE 5.)  
TYPESTYLE: MEDIUM SANS SERIF; UPPERCASE.  
COLOR: SUBMIT STANDARD COLORS FOR ARCHITECTS SELECTION.  
SIZE: REFER TO EACH SIGN TYPE FOR EXACT SIZE OF LETTERING.  
JUSTIFICATION: UPPER LEFT, UNLESS NOTED OTHERWISE.
  - THE FOLLOWING IS A DESCRIPTION OF THE INTERCHANGEABLE LETTER TILES TO BE USED ON SIGN TYPES K:  
METHOD: NOT STAMPED  
TYPESTYLE: SANS SERIF; UPPERCASE.  
COLOR: GREY TILE WITH WHITE LETTERS SIZE: 5/16"
  - PICTOGRAMS ARE STANDARD 3" HIGH DOT SYMBOLS, EXCEPT FOR ADA PICTOGRAMS WHICH ARE 6" HIGH.
  - SIGNAGE SHALL COMPLY WITH 2010 ADA REQUIREMENTS. ADA PICTOGRAMS TO BE COLORED AND RAISED 1/32" (MIN.) NYLON PRINTING OF GRADE 2 BRAILLE TO BE USED WHERE BRAILLE IS INDICATED ON SIGNS. BRAILLE IS TO BE LEFT JUSTIFIED AND IS TO ALIGN ON THE LEFT SIDE WITH THE DIMENSIONAL LETTERING ABOVE.
  - SEE DOOR SCHEDULE FOR SIGN LOCATIONS, UNLESS NOTED OTHERWISE.
  - PROVIDE SIGN TYPE A & B AT EACH NEW ELEVATOR DOOR.
  - PROVIDE SIGN TYPE B & C AT NEW EXIT STAIRWAY DOORS.
  - PROVIDE SIGN TYPE F IN THE GENERAL VICINITY OF NEW MULTI-STALL RESTROOMS FOR WAY FINDING.
  - PROVIDE NEW SIGN TYPE J AT LOBBY 1000 & 2000 IN ADDITION TO SIGN TYPES ASSOCIATED WITH EACH DOOR, AS SCHEDULED.
  - ROOM NAMES AND NUMBERS ILLUSTRATED ON SIGN TYPES ARE PROVIDED TO INDICATE LOCATION AND SIZE ONLY. ROOM NAMES AND NUMBERS VARY WITH SPECIFIC ROOMS. PROVIDE ROOM NAMES AND NUMBERS FOR EACH ROOM AS INDICATED ON ARCHITECTURAL FLOOR PLANS, ABBREVIATIONS AND THE PREFIX (E-) BEFORE ROOM NUMBERS SHALL NOT BE ACCEPTED ON SIGNS.



12 SIGN - M  
A7.7 SCALE: 6" = 1'-0"

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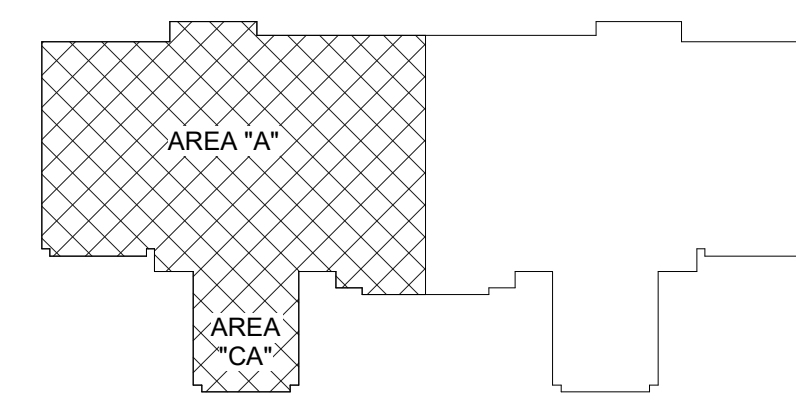
1 SECOND FLOOR PLAN - POWER PART "A"  
E3.2A SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**

1. VERIFY MOUNTING HEIGHTS OF ALL ELECTRICAL OUTLETS WITH ARCHITECTURAL ELEVATIONS AND MILLWORK DRAWINGS PRIOR TO ROUGH IN
2. HOMERUN CIRCUITS ARE SHOWN AS NOTED. PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

**KEYED NOTES:**

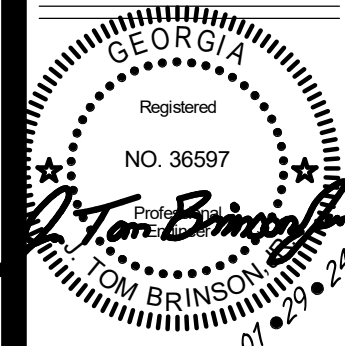
- 1 ALL EXISTING ELECTRICAL IN THIS ENCLOSED OUTLINED AREA OF PLATFORM TO REMAIN UNLESS OTHERWISE NOTED.
- 2 PRIOR TO ROUGH-IN, DIVISION 26 TO HAVE ON-SITE COORDINATION MEETING WITH OWNER'S I.T. TO REVIEW EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL RECEPTACLES SHOWN ON TELECOMMUNICATIONS BACKBOARD. LOCATE AS DIRECTED BY OWNER'S I.T. NUMBER ADJACENT TO DEVICE INDICATES EXISTING CIRCUIT BREAKER AT EXISTING PANEL "EC1" TO BE UTILIZED TO SERVE DEVICE.
- 3 DIVISION 26 TO PROVIDE AND INSTALL SINGLE GANG 2" DEEP BOX AT 18" ABOVE FLOOR FOR AUDIO/VIDEO VENDOR USE. ROUTE 1-1/4" C. W/ PULLSTRING FROM BOX UNDER FLOOR TO NEAREST WALL, THEN UP WALL CAVITY TO STUB ABOVE CEILING OF JURY ASSEMBLY ROOM. PROVIDE PLASTIC BUSHING ON END OF CONDUIT AND LABEL END OF CONDUIT TO INDICATE USAGE AND ROUTING.
- 4 DIVISION 26 TO PROVIDE AND INSTALL NEW 100A/3P, 120/208V, MAIN LUGS ONLY PANELBOARD "C1B" IN LOCATION AS SHOWN. DIVISION 26 TO REMOVE THREE(3) EXISTING 20A/1P BREAKERS WITHIN "C1" AND INSTALL NEW 50A/3P BREAKER TO SERVE NEW PANELBOARD "C1B". BREAKER SHALL HAVE SAME CHARACTERISTICS OF EXISTING BREAKERS. ROUTE 1" C, 4#6, 1#10G FROM BREAKER TO MAIN LUGS OF NEW PANELBOARD "C1B".
- 5 EXISTING RECEPTACLE AT THIS LOCATION TO REMAIN AND TO BE RECONNECTED TO EXISTING CIRCUIT AS SHOWN.
- 6 DIVISION 26 PROVIDE AND INSTALL 208V/1PH RECEPTACLE AS SHOWN. ROUTE 3#10 FROM OUTLET TO EXISTING PANEL "EC1". PROVIDE NEW 30A/2P BREAKER AT PANEL POLE SPACE CIRCUIT 9 & 11.
- 7 DIVISION 26 PROVIDE AND INSTALL 10" x 12" x 5" DEEP RECESSED FLOOR BOX FOR AUDIO/VIDEO, TELECOMMUNICATION, AND 120V POWER USAGE. ROUTE ONE(1) 1-1/4" C. FOR AV USE AND ONE(1) 1" C. FOR TELECOMMUNICATION USE FROM BOX UNDER FLOOR TO NEAREST WALL, THEN UP WALL CAVITY TO STUB OUT ABOVE CEILING OF JURY ASSEMBLY ROOM. PROVIDE PLASTIC BUSHING ON END OF CONDUITS AND LABEL END OF CONDUIT TO INDICATE USAGE AND ROUTING. PROVIDE AND INSTALL TWO(2) DUPLEX RECEPTACLES WITH BOX. PRIOR TO ROUGH-IN COORDINATE ON-SITE MEETING WITH ARCHITECT AND AV VENDOR CONFIRM LOCATION OF BOX RELATIVE TO FURNITURE BEING SERVED. BOX SHALL BE "FSR INC. - FL-500P-5-B" WITH "FL-500P-XX" COVER (NO EQUALS WILL BE ACCEPTED).
- 8 DIVISION 26 PROVIDE AND INSTALL FLUSH RECESSED WALL 2" DEEP SINGLE BOX AT 18" BELOW FINISH CEILING AT THIS LOCATION FOR INFRARED TRANSMITTER USAGE. ROUTE 3#1/4" C. W/ PULLSTRING TO STUB OUT ABOVE CEILING OF JURY ASSEMBLY ROOM. PROVIDE PLASTIC BUSHING ON END OF CONDUITS AND LABEL END OF CONDUIT TO INDICATE USAGE.
- 9 ROUTE TWO(2) 2" C. FROM ABOVE ACOUSTICAL CEILING IN JURY ASSEMBLY AND TWO(2) 2" C. FROM STAGING AREA TO STUB OUT BELOW CEILING IN I.T. ROOM. FIRE CAULK CONDUITS AT WALL PENETRATIONS PER DETAILS AND SPECIFICATIONS.
- 10 DIVISION 26 TO REMOVE EXISTING 15KVA TRANSFORMER, REMOVE EXISTING 30A/3P BREAKER IN EXISTING PANEL "HEC1" (SIEMENS "S2" STYLE) SERVING EXISTING TRANSFORMER, EXISTING FEEDER AND SUPPLY CONDUIT/CONDUCTOR TO AND FROM TRANSFORMER, AND EXISTING 50A/3P BREAKER IN EXISTING PANEL "EC1" (SIEMENS "S1" STYLE).
- 11 DIVISION 26 SHALL PROVIDE AND INSTALL NEW 30KVA TRANSFORMER AT THIS LOCATION. DIVISION 26 SHALL PROVIDE AND INSTALL NEW 50A/3P BREAKER IN EXISTING PANEL "HEC1" TO SERVE NEW TRANSFORMER. DIVISION 26 SHALL PROVIDE AND INSTALL 1" C, 3#6, 1#10G FROM BREAKER TO TRANSFORMER PRIMARY AS WELL AS PROVIDE AND INSTALL 1-1/2" C, 4#2, 1#8G FROM TRANSFORMER SUPPLY TO EXISTING PANEL "EC1". DIVISION 26 SHALL PROVIDE AND INSTALL NEW 100A/3P SIEMENS "S1" STYLE MAIN BREAKER IN EXISTING PANEL "EC1".
- 12 NEW MILLWORK WILL BE INSTALLED IN THIS COURTROOM FOR THE JUDGES BENCH AND JURY BOX AREAS (REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS). ALL EXISTING ELECTRICAL, LOW VOLTAGE AND AV IS EXISTING AND SHALL REMAIN. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING COVER PLATES, DEVICES, BOXES ETC. FOR DEMOLITION. ALL EXISTING EQUIPMENT SHALL BE RE-INSTALLED IN NEW MILLWORK IN THE SAME LOCATION.



KEY PLAN

ELECTRICAL DESIGN CONSULTANTS, INC. ELECTRICAL ENGINEERS  
1201 BROAD ST., SUITE 1-A  
AUGUSTA, GA 30901  
PH: (706) 724-3551  
FAX: (706) 724-8507  
EDC PROJECT #: 22145

PROPOSED RENOVATION & ADDITION  
COLUMBIA COUNTY JUSTICE CENTER  
640 RONALD REAGAN DRIVE  
EVANS, GEORGIA 30809



SECOND FLOOR PLAN - POWER PART  
"A"

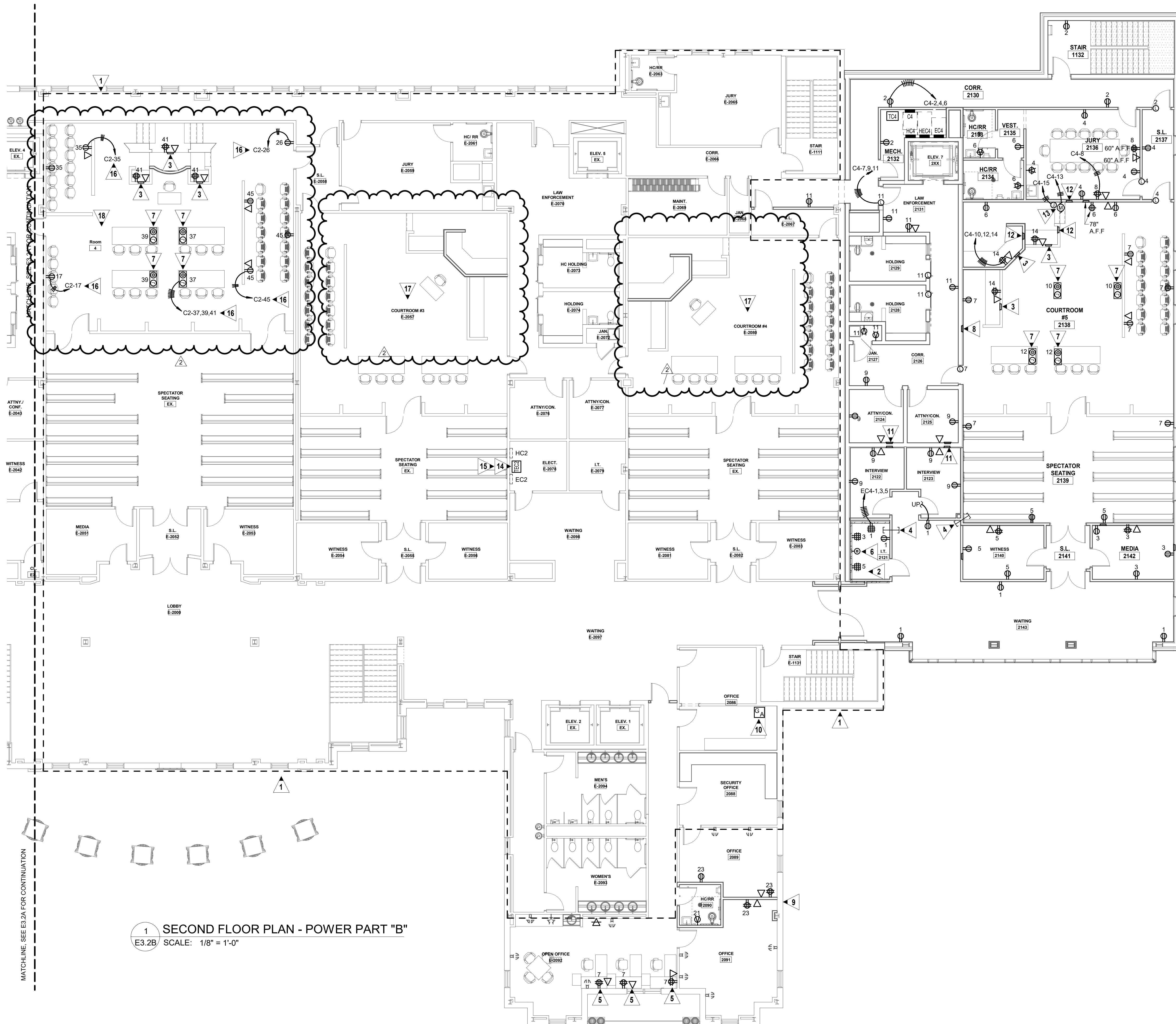
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CHKD BY: TB  
DATE: JANUARY 29, 2024  
REVISIONS  
1 ISSUED FOR BID 3/1  
2 ADDENDUM #3 02/21/2024  
3 ADDENDUM #5 03/06/2024

JOB NO. 2218  
SHEET NO.

E3.2A

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BOOKER+VICK  
ARCHITECTS  
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1 SECOND FLOOR PLAN - POWER PART "B"  
 E3.2B SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**

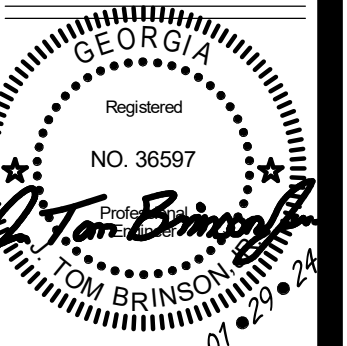
1. VERIFY MOUNTING HEIGHTS OF ALL ELECTRICAL OUTLETS WITH ARCHITECTURAL ELEVATIONS AND MILLWORK DRAWINGS PRIOR TO ROUGH IN
2. HOMERUN CIRCUITS ARE SHOWN AS NOTED. PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

**KEYED NOTES:**

1. ALL EXISTING ELECTRICAL IN THIS ENCLOSED OUTLINED AREA OF PLATFORM TO REMAIN UNLESS OTHERWISE NOTED. ANY WORK SHOWN IN THIS AREA IS NEW WORK.
2. PRIOR TO ROUGH-IN, DIVISION 26 TO HAVE ON-SITE COORDINATION MEETING WITH OWNER'S I.T. TO REVIEW EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL RECEPTACLES SHOWN ON TELECOMMUNICATIONS BACKBOARD. LOCATE AS DIRECTED BY OWNER'S I.T. DIVISION TO PROVIDE AND INSTALL TWO(2) 4" FIRE RATED "HILT" - SPEED SLEEVES IN FLOOR FOR CABLING ACCESS FROM FIRST FLOOR.
3. DIVISION 26 PROVIDE AND INSTALL SINGLE GANG 2" DEEP BOX AT 18" ABOVE FLOOR FOR AUDIO/VIDEO VENDOR USE. ROUTE 1-1/4" C. W/ PULLSTRING FROM BOX UNDER FLOOR TO NEAREST WALL. THEN UP WALL CAVITY TO STUB ABOVE CEILING OF JURY ROOM. PROVIDE PLASTIC BUSHING ON END OF CONDUIT AND LABEL END OF CONDUIT TO INDICATE USAGE AND ROUTING.
4. DIVISION 26 TO ROUTE TWO(2) 2" C. FROM ABOVE ACOUSTICAL CEILING IN COURT ROOM #5 TO ABOVE CEILING IN WAITING AREA AS SHOWN. ALSO, ROUTE TWO(2) 2" C. FROM WAITING AREA TO STUB OUT BELOW CEILING IN I.T. ROOM. FIRE CAULK CONDUITS AT WALL PENETRATIONS PER DETAILS AND SPECIFICATIONS.
5. DIVISION 26 PROVIDE AND INSTALL WIREMOLD V7000 SERIES SURFACE WALL DUAL-CHANNEL RACEWAY TO SERVE DEVICES AS SHOWN. ROUTE RACEWAY FROM 18" AFF TO STUB OUT ABOVE CEILING. CONNECT RECEPTACLES INDICATED TO EXISTING PANEL CIRCUIT "C2-7" IN AREA.
6. DIVISION 26 PROVIDE AND INSTALL 208V/1PH RECEPTACLE AS SHOWN. ROUTE 3/8" FROM OUTLET TO PANEL "EC2".
7. DIVISION 26 TO PROVIDE AND INSTALL 10" x 12" x 5" DEEP RECESSED FLOOR BOX FOR AUDIO/VIDEO, TELECOMMUNICATION, AND 120V POWER USAGE. ROUTE ONE(1) 1-1/4" C. FOR AV USE AND ONE(1) 1" C. FOR TELECOMMUNICATION USE FROM BOX UNDER FLOOR TO NEAREST WALL. THEN UP WALL CAVITY TO STUB OUT ABOVE CEILING OF COURTROOM. PROVIDE PLASTIC BUSHING ON END OF CONDUITS AND LABEL END OF CONDUIT TO INDICATE USAGE AND ROUTING. PROVIDE AND INSTALL TWO(2) DUPLEX RECEPTACLES WITH BOX. PRIOR TO ROUGH-IN COORDINATE ON-SITE MEETING WITH ARCHITECT AND AV VENDOR CONFIRM LOCATION OF BOX RELATIVE TO FURNITURE BEING SERVED. BOX SHALL BE "FSR INC - FL-500P-5-B" WITH "FL-500P-XX" COVER (NO EQUALS WILL BE ACCEPTED).
8. DIVISION 26 PROVIDE AND INSTALL FLUSH RECESSED WALL 2" DEEP SINGLE BOX AT 18" BELOW FINISH CEILING AT THIS LOCATION FOR INFRARED TRANSMITTER USAGE. ROUTE 3/4" C. W/ PULLSTRING TO STUB OUT ABOVE CEILING OF COURTROOM. PROVIDE PLASTIC BUSHING ON END OF CONDUITS AND LABEL END OF CONDUIT TO INDICATE USAGE.
9. NEW RECEPTACLE DEVICES SHOWN ON NEW WALLS IN THIS AREA SHALL BE CIRCUITED TO EXISTING PANEL "C2" CIRCUITS IN THIS AREA AS INDICATED AT DEVICE.
10. LOCATION OF NEW GENERATOR ANNUCIATOR. COORDINATE EXACT LOCATION WALL WITH NEW FIRE ALARM PANEL SCHEDULED TO BE LOCATED ON THIS WALL.
11. DIVISION 26 PROVIDE AND INSTALL TWO(2) FLUSH RECESSED SINGLE GANG JUNCTION BOXES LOCATED ON EACH SIDE OF WALL (BACK-TO-BACK) AT 18" AFF. PROVIDE 1" CONDUIT SLEEVE THROUGH WALL BETWEEN BOXES FOR COMMUNICATION USE.
12. DIVISION 26 PROVIDE AND INSTALL FLUSH RECESSED SINGLE GANG BOX ON COURTROOM WALL, ON WALL ABOVE WITNESS CENTER, AND ON WALL ABOVE JUDGE'S COUNTER FOR WHEELCHAIR LIFT CONTROLS. COORDINATE EXACT HEIGHT WITH ARCHITECTURAL ELEVATIONS AND LIFT VENDOR SHOP DRAWINGS PRIOR TO ROUGH-IN. ROUTE 3/4" C. FROM BOX UNDER FLOOR TO WHEELCHAIR LIFT CONTROLLER. COORDINATE EXACT LOCATION OF LIFT CONTROLLER.
13. APPROXIMATE LOCATION OF WHEELCHAIR LIFT CONTROLLER AND MOTOR UNDER FLOOR. PROVIDE 20A/1P MOTOR SWITCH FOR BOTH CONTROLLER AND MOTOR FOR SERVICE DISCONNECTING MEANS. COORDINATE EXACT LOCATION WITH LIFT VENDOR / INSTALLER.
14. DIVISION 26 TO REMOVE EXISTING 15KVA TRANSFORMER, REMOVE EXISTING 30A/3P BREAKER IN EXISTING PANEL "HEC2" (SIEMENS "S2" STYLE) SERVING EXISTING TRANSFORMER, EXISTING FEEDER AND SUPPLY CONDUIT/CONDUCTOR TO AND FROM TRANSFORMER, AND EXISTING 50A/3P BREAKER IN EXISTING PANEL "EC2" (SIEMENS "S1" STYLE).
15. DIVISION 26 SHALL PROVIDE AND INSTALL NEW 30KVA TRANSFORMER AT THIS LOCATION. DIVISION 26 SHALL PROVIDE AND INSTALL NEW 50A/3P BREAKER IN EXISTING PANEL "HEC2" TO SERVE NEW TRANSFORMER. DIVISION 26 SHALL PROVIDE AND INSTALL 1" C., 3#8, 1#10G FROM BREAKER TO TRANSFORMER PRIMARY AS WELL AS PROVIDE AND INSTALL 1-1/2" C., #42, #8G FROM TRANSFORMER SUPPLY TO EXISTING PANEL "EC2". DIVISION 26 SHALL PROVIDE AND INSTALL NEW 100A/3P SIEMENS "BL" STYLE MAIN BREAKER IN EXISTING PANEL "EC2".
16. PROVIDE NEW HOMERUN TO PANEL AS INDICATED. PROVIDE NEW 20A/1P BREAKERS FOR EACH CIRCUIT IN THE EXISTING PANEL.
17. NEW MILLWORK WILL BE INSTALLED IN THIS COURTROOM FOR THE JUDGES BENCH AND JURY BOX AREAS (REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS). ALL EXISTING ELECTRICAL, LOW VOLTAGE AND AV IS EXISTING AND SHALL REMAIN. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING COVER PLATES, DEVICES, BOXES ETC. FOR DEMOLITION. ALL EXISTING EQUIPMENT SHALL BE RE-INSTALLED IN NEW MILLWORK IN THE SAME LOCATION.
18. NEW MILLWORK AND LAYOUT WILL BE INSTALLED IN THIS COURTROOM FOR THE JUDGES BENCH AND JURY BOX AREAS (REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS). ALL EXISTING ELECTRICAL, LOW VOLTAGE AND AV THAT IS EXISTING SHALL BE RELOCATED IN NEW LAYOUT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING COVER PLATES, DEVICES, BOXES ETC. FOR DEMOLITION. ALL EXISTING BACKBOXES FOR AV AND LOW VOLTAGE SHALL BE RE-INSTALLED IN NEW MILLWORK.

**KEY PLAN**

ELECTRICAL DESIGN ENGINEERS  
 1201 BROAD ST., SUITE 1-A  
 AUGUSTA, GA 30901  
 PH: (706) 724-3551  
 FAX: (706) 724-8507  
 EDC PROJECT #: 22145



DRAWN BY: KH  
 CHECKED BY: TB  
 DATE: JANUARY 29, 2024

REVISIONS	ISSUED FOR BID
0	3/1
1	ADDENDUM #3 02/1/2024
2	ADDENDUM #5 03/6/2024

JOB NO. 2218  
 SHEET NO. **E3.2B**

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## EXHIBIT B

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## SECTION 017700

### CLOSEOUT PROCEDURES

#### PART 1 - GENERAL

##### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

##### 1.2 SUMMARY

- A. Section includes administrative and procedural requirements for Contract closeout, including, but not limited to, the following:

- 1. Substantial Completion procedures.
- 2. Final completion procedures.
- 3. Warranties.
- 4. Final cleaning.

- B. Related Requirements:

- 1. Section 012900 "Payment Procedures" for requirements for Applications for Payment for Substantial Completion and Final Completion.
- 2. Section 017500 "Project Warranties" for warranty submittal requirements prior to Substantial Completion.
- 3. Section 017823 "Operation and Maintenance Data" for additional operation and maintenance manual requirements.
- 4. Section 017839 "Project Record Documents" for submitting Record Drawings, Record Specifications, and Record Product Data.

##### 1.3 DEFINITIONS

- A. List of Incomplete Items: Contractor-prepared list of items to be completed or corrected, prepared for the Architect's use prior to Architect's inspection, to determine if the Work is substantially complete.

##### 1.4 ACTION SUBMITTALS

- A. Product Data: For each type of cleaning agent.
- B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.
- C. Certified List of Incomplete Items: Final submittal at Final Completion.

##### 1.5 CLOSEOUT SUBMITTALS

- A. Certificates of Release: From authorities having jurisdiction.
- B. Certificate of Insurance: For continuing coverage.
- C. Field Report: For pest-control inspection.

##### 1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Schedule of Maintenance Material Items: For maintenance material submittal items required by other Sections.

##### 1.7 SUBSTANTIAL COMPLETION PROCEDURES

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's "punch list"), indicating the value of each item on the list and reasons why the Work is incomplete.

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- B. Submittals Prior to Substantial Completion: Complete the following a minimum of ten (10) days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction, permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
  2. Submit closeout submittals specified in other Division 01 Sections, including Project Record Documents, operation and maintenance manuals, damage or settlement surveys, property surveys, and similar final record information.
  3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
  4. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number.
    - a. Schedule of Maintenance Material Items: Prepare and submit schedule of maintenance material submittal items, including name and quantity of each item and name and number of related Specification Section. Obtain Architect's for receipt of submittals.
  5. Submit testing, adjusting, and balancing records.
  6. Submit sustainable design submittals not previously submitted.
  7. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of ten (10) days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
1. Advise Owner of pending insurance changeover requirements.
  2. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
  3. Complete startup and testing of systems and equipment.
  4. Perform preventive maintenance on equipment used prior to Substantial Completion.
  5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
  6. Advise Owner of changeover in utility services.
  7. Participate with Owner in conducting inspection and walkthrough with local emergency responders.
  8. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
  9. Complete final cleaning requirements.
  10. Touch up paint and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of ten (10) days prior to date the Work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect that must be completed or corrected before certificate will be issued.
1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
  2. Results of completed inspection will form the basis of requirements for Final Completion.

## 1.8 FINAL COMPLETION PROCEDURES

- A. Submittals Prior to Final Completion: Before requesting final inspection for determining Final Completion, complete the following:
1. Submit a final Application for Payment in accordance with Section 012900 "Payment Procedures."
  2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
  3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
  4. Submit pest-control final inspection report.
- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the Work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

## 1.9 LIST OF INCOMPLETE ITEMS

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor listed by room or space number.
  2. Organize items applying to each space by major element, including categories for ceilings, individual walls, floors, equipment, and building systems.
  3. Include the following information at the top of each page:
    - a. Project name.
    - b. Date.
    - c. Name of Architect
    - d. Name of Contractor.
    - e. Page number.
  4. Submit list of incomplete items in the following format:
    - a. PDF Electronic File: Architect will return annotated file.

## 1.10 SUBMITTAL OF PROJECT WARRANTIES

- A. The following items are to be submitted to the Architect and Owner.
- B. 1. Copies of all manufacturers; punch lists and documentation of completion.
- C. 2. Copies of all consultants' punch lists and documents of completion.
- D. 3. Manufacturer's report that the roof has been inspected and is suitable for warranty.
- E. 4. Contractor's written **two (2) year guarantee** covering all materials and labor.
- F. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where warranties are indicated to commence on dates other than date of Substantial Completion, or when delay in submittal of warranties might limit Owner's rights under warranty.

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- G. Partial Occupancy: Submit properly executed warranties within fifteen (15) days of completion of designated portions of the Work that are completed and occupied or used by Owner during construction period by separate agreement with Contractor.
- H. Substantial Completion: Submit all required documentation upon completion of the work and prior to final payment.
- I. All warranties are to be submitted to the Owner prior to final payment.
- J. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.
- K. Warranty Electronic File: Provide warranties and bonds in PDF format. Assemble complete warranty and bond submittal package into a single electronic PDF file with bookmarks enabling navigation to each item. Provide bookmarked table of contents at beginning of document.
  - 1. Submit on digital media acceptable to Architect
- L. Warranties in Paper Form:
  - 1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch paper.
  - 2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
  - 3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
- M. Provide additional copies of each warranty to include in operation and maintenance manuals.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

**PART 3 - EXECUTION**

**3.1 FINAL CLEANING**

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
  - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
    - a. Clean Project site of rubbish, waste material, litter, and other foreign substances.
    - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
    - c. Rake grounds that are not planted, mulched, or paved to a smooth, even-textured surface.
    - d. Remove tools, construction equipment, machinery, and surplus material from Project site.
    - e. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural

weathering of exterior surfaces. Restore reflective surfaces to their original condition.

- f. Remove debris and surface dust from limited-access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
  - g. Clean flooring, removing debris, dirt, and staining; clean according to manufacturer's recommendations.
  - h. Vacuum and mop concrete.
  - i. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
  - j. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish mirrors and glass, taking care not to scratch surfaces.
  - k. Remove labels that are not permanent.
  - l. Wipe surfaces of mechanical and electrical equipment elevator equipment and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
  - m. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
  - n. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
  - o. Clean ducts, blowers, and coils if units were operated without filters during construction, or that display contamination with particulate matter on inspection.
  - p. Clean luminaires, lamps, globes, and reflectors to function with full efficiency.
  - q. Clean strainers.
  - r. Leave Project clean and ready for occupancy.
- C. Pest Control: Comply with pest control requirements in Section 015000 "Temporary Facilities and Controls." Prepare written report.
- D. Construction Waste Disposal: Comply with waste-disposal requirements in Section 017419 "Construction Waste Management and Disposal."

### **3.2 REPAIR OF THE WORK**

- A. Complete repair and restoration operations required by Section 017300 "Execution" before requesting inspection for determination of Substantial Completion.

**END OF SECTION 017700**

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**SECTION 017839**

**PROJECT RECORD DOCUMENTS**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. Section includes administrative and procedural requirements for Project Record Documents, including the following:
1. Record Drawings.
  2. Record specifications.
  3. Record Product Data.
  4. Miscellaneous record submittals.
- B. Related Requirements:
1. Section 017300 "Execution" for final property survey.
  2. Section 017700 "Closeout Procedures" for general closeout procedures.
  3. Section 017823 "Operation and Maintenance Data" for operation and maintenance manual requirements.

**1.3 CLOSEOUT SUBMITTALS**

- A. Record Drawings: Comply with the following:
1. Number of Copies: Submit one (1) set of marked-up record prints.
  2. Number of Copies: Submit copies of Record Drawings as follows:
    - a. Initial Submittal:
      - 1) Submit PDF electronic files of scanned record prints and one (1) set of file prints.
    - b. Final Submittal:
      - 1) Submit PDF electronic files of scanned Record Prints and three (3) sets of file prints.
- B. Record Specifications: Submit annotated PDF electronic files of Project's Specifications, including addenda and Contract modifications.
- C. Record Product Data: Submit annotated PDF electronic files and directories of each submittal.
1. Where record Product Data are required as part of operation and maintenance manuals, submit duplicate marked-up Product Data as a component of manual.
- D. Miscellaneous Record Submittals: See other Specification Sections for miscellaneous record-keeping requirements and submittals in connection with various construction activities. Submit annotated PDF electronic files and directories of each submittal.

**1.4 RECORD DRAWINGS**

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised drawings as modifications are issued.
1. Preparation: Mark record prints to show the actual installation, where installation varies from that shown originally. Require individual or entity who obtained record data, whether

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individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.

- a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
  - b. Accurately record information in an acceptable drawing technique.
  - c. Record data as soon as possible after obtaining it.
  - d. Record and check the markup before enclosing concealed installations.
2. Content: Types of items requiring marking include, but are not limited to, the following:
- a. Dimensional changes to Drawings.
  - b. Revisions to details shown on Drawings.
  - c. Depths of foundations.
  - d. Locations and depths of underground utilities.
  - e. Revisions to routing of piping and conduits.
  - f. Revisions to electrical circuitry.
  - g. Actual equipment locations.
  - h. Duct size and routing.
  - i. Locations of concealed internal utilities.
  - j. Changes made by Change Order or Construction Change Directive.
  - k. Changes made following Architect's written orders.
  - l. Details not on the original Contract Drawings.
  - m. Field records for variable and concealed conditions.
  - n. Record information on the Work that is shown only schematically.
3. Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
4. Mark record prints with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
5. Mark important additional information that was either shown schematically or omitted from original Drawings.
6. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Record Digital Data Files: Immediately before inspection for Certificate of Substantial Completion, review marked-up record prints with Architect. When authorized, prepare a full set of corrected digital data files of the Contract Drawings, as follows:
1. Format: Annotated PDF electronic file with comment function enabled.
  2. Incorporate changes and additional information previously marked on record prints. Delete, redraw, and add details and notations where applicable.
  3. Refer instances of uncertainty to Architect for resolution.
- a. See Section 013100 "Project Management and Coordination" for requirements related to use of Architect's digital data files.
- C. Format: Identify and date each Record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
1. Record Prints: Organize record prints into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
  2. Format: Annotated PDF electronic file with comment function enabled.
  3. Record Digital Data Files: Organize digital data information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each digital data file.

4. Identification: As follows:
  - a. Project name.
  - b. Date.
  - c. Designation "PROJECT RECORD DRAWINGS."
  - d. Name of Architect.
  - e. Name of Contractor.

#### **1.5 RECORD SPECIFICATIONS**

- A. Preparation: Mark Specifications to indicate the actual product installation, where installation varies from that indicated in Specifications, addenda, and Contract modifications.
  1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
  2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
  3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
  4. For each principal product, indicate whether Record Product Data has been submitted in operation and maintenance manuals instead of submitted as Record Product Data.
  5. Note related Change Orders Record Product Data and Record Drawings where applicable.
- B. Format: Submit record specifications as scanned PDF electronic file(s) of marked-up paper copy of Specifications.

#### **1.6 RECORD PRODUCT DATA**

- A. Recording: Maintain one copy of each submittal during the construction period for Project Record Document purposes. Post changes and revisions to Project Record Documents as they occur; do not wait until end of Project.
- B. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.
  1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
  2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
  3. Note related Change Orders, Record Specifications, and Record Drawings where applicable.
- C. Format: Submit Record Product Data as scanned PDF electronic file(s) of marked-up paper copy of Product Data.
  1. Include Record Product Data directory organized by Specification Section number and title, electronically linked to each item of Record Product Data.

#### **1.7 MISCELLANEOUS RECORD SUBMITTALS**

- A. Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.
- B. Format: Submit miscellaneous record submittals as scanned PDF electronic file(s) of marked-up miscellaneous record submittals.
  1. Include miscellaneous record submittals directory organized by Specification Section number and title, electronically linked to each item of miscellaneous record submittals.

**1.8 MAINTENANCE OF RECORD DOCUMENTS**

- A. Maintenance of Record Documents: Store Record Documents in the field office apart from the Contract Documents used for construction. Do not use Project Record Documents for construction purposes. Maintain Record Documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to Project Record Documents for the Architect's reference during normal working hours.

**PART 2 - PRODUCTS (Not Used)**

**PART 3 - EXECUTION (Not Used)**

**END OF SECTION 017839**

**SECTION 042613**

**MASONRY VENEER**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. Section Includes:
  - 1. Clay face brick.
  - 2. Mortar.
  - 3. Ties and anchors.
  - 4. Embedded flashing.
  - 5. Miscellaneous masonry accessories.
- B. Products Installed but not Furnished under This Section:
  - 1. Cast-stone trim in masonry veneer.
  - 2. Steel lintels in masonry veneer.
  - 3. Steel shelf angles for supporting masonry veneer.
- C. Related Requirements:
  - 1. Section 033000 "Cast in Place Concrete" for installing dovetail slots for masonry-veneer anchors.
  - 2. Section 076200 "Sheet Metal Flashing and Trim" for exposed sheet metal flashing.

**1.3 DEFINITIONS**

- A. CMU(s): Concrete masonry unit(s).

**1.4 ACTION SUBMITTALS**

- A. Product Data: For each type of product.
- B. Shop Drawings: For the following:
  - 1. Masonry Units: Show sizes, profiles, coursing, and locations of special shapes.
  - 2. Fabricated Flashing: Detail corner units, end-dam units, and other special applications.
- C. Samples for Initial Selection:
  - 1. Clay face brick, in the form of straps of five or more bricks.
  - 2. Colored mortar.
  - 3. Weep holes/vents.
- D. Samples for Verification: For each type and color of the following:
  - 1. Clay face brick, in the form of straps of five or more bricks.

2. Pigmented and colored-aggregate mortar. Make Samples using same sand and mortar ingredients to be used on Project.
3. Weep holes.
4. Accessories embedded in masonry.

## **1.5 INFORMATIONAL SUBMITTALS**

- A. List of Materials Used in Constructing Mockups: List generic product names together with manufacturers, manufacturers' product names, model numbers, lot numbers, batch numbers, source of supply, and other information as required to identify materials used. Include mix proportions for mortar and grout and source of aggregates.
1. Submittal is for information only. Receipt of list does not constitute approval of deviations from the Contract Documents unless such deviations are specifically brought to the attention of Architect and approved in writing.
- B. Material Certificates: For each type and size of the following:
1. Masonry units.
    - a. For brick, include size-variation data verifying that actual range of sizes falls within specified tolerances.
    - b. For exposed brick, include test report for efflorescence according to ASTM C67.
  2. Cementitious materials. Include name of manufacturer, brand name, and type.
  3. Mortar admixtures.
  4. Preblended, dry mortar mixes. Include description of type and proportions of ingredients.
  5. Anchors, ties, and metal accessories.
- C. Mix Designs: For each type of mortar. Include description of type and proportions of ingredients.
1. Include test reports for mortar mixes required to comply with property specification. Test according to ASTM C109/C109M for compressive strength, ASTM C1506 for water retention, and ASTM C91/C91M for air content.
- D. Cold-Weather and Hot-Weather Procedures: Detailed description of methods, materials, and equipment to be used to comply with requirements.

## **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.
- B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.
- D. Deliver preblended, dry mortar mix in moisture-resistant containers. Store preblended, dry mortar mix in delivery containers on elevated platforms in a dry location or in covered weatherproof dispensing silos.
- E. Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.

## 1.7 FIELD CONDITIONS

- A. Protection of Masonry: During construction, cover tops of veneer, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.
  - 1. Extend cover a minimum of 24 inches down face of veneer, and hold cover securely in place.
- B. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry. Immediately remove grout, mortar, and soil that come in contact with masonry.
  - 1. Protect base of walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.
  - 2. Protect sills, ledges, and projections from mortar droppings.
  - 3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.
  - 4. Turn scaffold boards near the wall on edge at the end of each day to prevent rain from splashing mortar and dirt onto completed masonry.
- C. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.
  - 1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F and higher and will remain so until masonry has dried, but not less than seven days after completing cleaning.
- D. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Source Limitations for Masonry Units: Obtain exposed masonry units of a uniform texture and color, or a uniform blend within the ranges accepted for these characteristics, from single source from single manufacturer for each product required.
- B. Source Limitations for Mortar Materials: Obtain mortar ingredients of a uniform quality, including color for exposed masonry, from single manufacturer for each cementitious component and from single source or producer for each aggregate.

### 2.2 UNIT MASONRY, GENERAL

- A. Masonry Standard: Comply with TMS 602/ACI 530.1/ASCE 6, except as modified by requirements in the Contract Documents.
- B. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated. Do not use units where such defects will be exposed in the completed Work and will be within 20 feet vertically and horizontally of a walking surface.

### 2.3 BRICK

- A. General: Provide shapes indicated and as follows, with exposed surfaces matching finish and color of exposed faces of adjacent units:
1. For ends of sills and caps and for similar applications that would otherwise expose unfinished brick surfaces, provide units without cores or frogs and with exposed surfaces finished.
  2. Provide special shapes for applications where stretcher units cannot accommodate special conditions, including those at corners, movement joints, bond beams, sashes, and lintels.
  3. Provide special shapes for applications requiring brick of size, form, color, and texture on exposed surfaces that cannot be produced by sawing.
  4. Provide special shapes for applications where shapes produced by sawing would result in sawed surfaces being exposed to view.
  5. Basis of Design: Cherokee Brick: Velour Burgundy, Size: To match existing.
- B. Clay Face Brick: Facing brick complying with ASTM C216.
1. Manufacturers: Subject to compliance with requirements, provide products by the following:
    - a. Meridian Brick and Masonry company.
    - b. Cherokee Brick:
    - c. Taylor Clay Products.
  2. Grade: SW
  3. Type: FBXFBS FBA.
  4. Initial Rate of Absorption: Less than 30 g/30 sq. in. per minute when tested according to ASTM C7.
  5. Efflorescence: Provide brick that has been tested according to ASTM C67 and is rated "not effloresced."
  6. Surface Coating: Brick with colors or textures produced by application of coatings shall withstand 50 cycles of freezing and thawing according to ASTM C67 with no observable difference in the applied finish when viewed from 10 feet or shall have a history of successful use in Project's area.
  7. Size (Actual Dimensions): 3-5/8 inches wide by 2-1/4 inches high by 8 inches long. Match existing brick size and color.
  8. Application: Use where brick is exposed unless otherwise indicated.
  9. Where shown to "match existing," provide clay face brick matching color range, texture, and size of existing adjacent brickwork.
  10. Color and Texture: Final selection to be approved by Owner/Architect.

### 2.4 MORTAR MATERIALS

- A. Portland Cement: ASTM C150/C150M, Type I or II, except Type III may be used for cold-weather construction. Provide natural color or white cement as required to produce mortar color indicated.
1. Alkali content shall not be more than 0.1 percent when tested according to ASTM C114.



- B. Hydrated Lime: ASTM C207, Type S.
- C. Portland Cement-Lime Mix: Packaged blend of portland cement and hydrated lime containing no other ingredients.
- D. Masonry Cement: ASTM C91/C91M.
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Essroc.
    - b. Holcim (US) Inc.
    - c. Lafarge North America Inc.
- E. Mortar Cement: ASTM C1329/C1329M.
  - 1. Manufacturers: Subject to compliance with requirements, provide products by the following:
    - a. Lafarge North America Inc.
- F. Aggregate for Mortar: ASTM C144.
  - 1. For mortar that is exposed to view, use washed aggregate consisting of natural sand or crushed stone.
  - 2. For joints less than 1/4 inch thick, use aggregate graded with 100 percent passing the No. 16 sieve.
  - 3. White-Mortar Aggregates: Natural white sand or crushed white stone.
  - 4. Colored-Mortar Aggregates: Natural sand or crushed stone of color necessary to produce required mortar color.
- G. Cold-Weather Admixture: Nonchloride, noncorrosive, accelerating admixture complying with ASTM C494/C494M, Type C, and recommended by manufacturer for use in masonry mortar of composition indicated.
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Euclid Chemical Company (The); an RPM company.
    - b. GCP Applied Technologies Inc.
- H. Water: Potable.

## **2.5 TIES AND ANCHORS**

- A. General: Ties and anchors shall extend at least 1-1/2 inches into veneer but with at least a 5/8-inch cover on outside face.
- B. Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated:
  - 1. Mill-Galvanized, Carbon-Steel Wire: ASTM A82/A82M, with ASTM A641/A641M, Class 1 coating.

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2. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A82/A82M, with ASTM A153/A153M, Class B-2 coating.
  3. Galvanized-Steel Sheet: ASTM A653/A653M, Commercial Steel, G60 zinc coating.
  4. Steel Sheet, Galvanized after Fabrication: ASTM A1008/A1008M, Commercial Steel, with ASTM A153/A153M, Class B coating.
- C. Corrugated-Metal Ties: Metal strips not less than 7/8 inch wide with corrugations having a wavelength of 0.3 to 0.5 inch and an amplitude of 0.06 to 0.10 inch made from 0.030-inch-thick, steel sheet, galvanized after fabrication].
- D. Adjustable Anchors for Connecting to Structural Steel Framing: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.
1. Tie Section: Triangular-shaped wire tie made from 0.187-inch-diameter, [hot-dip galvanized steel wire. Mill-galvanized wire may be used at interior walls unless otherwise indicated.
- E. Adjustable Anchors for Connecting to Concrete: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.
1. Tie Section: Triangular-shaped wire tie made from 0.187-inch-diameter, hot-dip galvanized steel wire. Mill-galvanized wire may be used at interior walls unless otherwise indicated.
  2. Corrugated-Metal Ties: Metal strips not less than 7/8 inch wide with corrugations having a wavelength of 0.3 to 0.5 inch and an amplitude of 0.06 to 0.10 inch made from 0.060-inch-thick steel sheet, galvanized after fabrication with dovetail tabs for inserting into dovetail slots in concrete.
    - a. 0.064-inch-thick, galvanized sheet may be used at interior walls unless otherwise indicated.
- F. Adjustable Masonry-Veneer Anchors:
1. General: Provide anchors that allow vertical adjustment but resist a 100-lbf load in both tension and compression perpendicular to plane of wall without deforming or developing play in excess of 1/16 inch.
  2. Fabricate sheet metal anchor sections and other sheet metal parts from 0.075-inch-thick steel sheet, galvanized after fabrication.
  3. Fabricate wire ties from 0.187-inch-diameter, hot-dip galvanized steel wire unless otherwise indicated.
  4. Fabricate wire connector sections from 0.187-inch-diameter, hot-dip galvanized, carbon steel wire.
  5. Contractor's Option: Unless otherwise indicated, provide any of the adjustable masonry-veneer anchors specified.
  6. Screw-Attached, Masonry-Veneer Anchors: Wire tie and a rib-stiffened, sheet metal anchor section with screw holes top and bottom, with a projecting vertical tab having a slotted hole for inserting wire tie.
  7. Screw-Attached, Masonry-Veneer Anchors: Wire tie and a rib-stiffened, sheet metal anchor section with screw holes top and bottom, with projecting tabs having holes for inserting vertical legs of wire tie formed to fit anchor section.
  8. Screw-Attached, Masonry-Veneer Anchors: Wire tie and a sheet metal anchor section, 1-1/4 inches wide by 9 inches long, with screw holes top and bottom and with raised rib-stiffened strap, 5/8 inch wide by 5-1/2 inches long, stamped into center to provide a slot between strap and base for inserting wire tie.

9. Screw-Attached, Masonry-Veneer Anchors: Wire tie and a sheet metal anchor section, 1-1/4 inches wide by 6 inches long, with screw holes top and bottom and with raised rib-stiffened strap, 5/8 inch wide by 3-5/8 inches long, stamped into center to provide a slot between strap and base for inserting wire tie.
10. Screw-Attached, Masonry-Veneer Anchors: Wire tie and a gasketed sheet metal anchor section, 1-1/4 inches wide by 6 inches long, with screw holes top and bottom; top and bottom ends bent to form pronged legs of length to match thickness of insulation or sheathing; and raised rib-stiffened strap, 5/8 inch wide by 6 inches long, stamped into center to provide a slot between strap and base for inserting wire tie. Self-adhering, modified bituminous gasket fits behind anchor plate and extends beyond pronged legs.
11. Screw-Attached, Masonry-Veneer Anchors: Wire tie and a corrosion-resistant, self-drilling, eye-screw designed to receive wire tie. Eye-screw has spacer that seats directly against framing and is same thickness as sheathing and has gasketed washer head that covers hole in sheathing.
12. Seismic Masonry-Veneer Anchors: Wire tie and a rib-stiffened, sheet metal anchor section with screw holes top and bottom, with projecting tabs having holes for inserting vertical legs of wire tie. Wire tie has sheet metal clip welded to it with integral tabs designed to engage continuous wire.
13. Seismic Masonry-Veneer Anchors: Connector section and a gasketed sheet metal anchor section, 1-1/4 inches wide by 6 inches long, with screw holes top and bottom; top and bottom ends bent to form pronged legs of length to match thickness of insulation or sheathing; and raised rib-stiffened strap, 5/8 inch wide by 6 inches long, stamped into center to provide a slot between strap and base for inserting connector section. Self-adhering, modified bituminous gasket fits behind anchor plate and extends beyond pronged legs. Connector section consists of a triangular wire tie and rigid PVC extrusion with snap-in grooves for inserting continuous wire.
14. Polymer-Coated, Steel Drill Screws for Steel Studs: ASTM C954 except manufactured with hex washer head and neoprene or EPDM washer, No. 10 diameter by length required to penetrate steel stud flange with not less than three exposed threads, and with organic polymer coating with salt-spray resistance to red rust of more than 800 hours according to ASTM B117.
15. Stainless Steel Drill Screws for Steel Studs: ASTM C954 except manufactured with hex washer head and neoprene or EPDM washer, No. 10 diameter by length required to penetrate steel stud flange with not less than three exposed threads; either made from Type 410 stainless steel or made with a carbon-steel drill point and 300 Series stainless steel shank.

## **2.6 EMBEDDED FLASHING MATERIALS**

- A. Metal Flashing: Provide metal flashing complying with SMACNA's "Architectural Sheet Metal Manual" and as follows:
  1. Stainless Steel: ASTM A240/A240M or ASTM A666, Type 304, 0.016 inch thick.
  2. Fabricate continuous flashings in sections 96 inches long minimum, but not exceeding 12 feet. Provide splice plates at joints of formed, smooth metal flashing.
  3. Fabricate through-wall flashing with snap lock receiver on exterior face where indicated to receive counterflashing.

4. Fabricate through-wall flashing with drip edge where unless otherwise indicated. Fabricate by extending flashing 1/2 inch out from wall, with outer edge bent down 30 degrees and hemmed.
  5. Fabricate through-wall flashing with sealant stop where unless otherwise indicated. Fabricate by bending metal back on itself 3/4 inch at exterior face of wall and down into joint 1/4 inch to form a stop for retaining sealant backer rod.
  6. Fabricate metal drip edges and sealant stops for ribbed metal flashing from plain metal flashing of same metal as ribbed flashing and extending at least 3 inches into wall with hemmed inner edge to receive ribbed flashing and form a hooked seam. Form hem on upper surface of metal so that completed seam sheds water.
  7. Fabricate metal drip edges from stainless steel. Extend at least 3 inches into wall and 1/2 inch out from wall, with outer edge bent down 30 degrees and hemmed.
  8. Fabricate metal sealant stops from stainless steel. Extend at least 3 inches into wall and out to exterior face of wall. At exterior face of wall, bend metal back on itself for 3/4 inch and down into joint 1/4 inch to form a stop for retaining sealant backer rod.
  9. Solder metal items at corners.
    - a. Accessories: Provide preformed corners, end dams, other special shapes, and seaming materials produced by flashing manufacturer.
- B. Application: Unless otherwise indicated, use the following:
1. Where flashing is indicated to receive counterflashing, use metal flashing.
  2. Where flashing is indicated to be turned down at or beyond the wall face, use metal flashing.
  3. Where flashing is partly exposed and is indicated to terminate at the wall face, use metal flashing [with a drip edge] [with a sealant stop] [or flexible flashing with a metal drip edge] [or elastomeric thermoplastic flashing with a drip edge] [or flexible flashing with a metal sealant stop].
  4. Where flashing is fully concealed, use metal flashing.
- C. Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer for bonding flashing sheets to each other and to substrates.

## 2.7 MISCELLANEOUS MASONRY ACCESSORIES

- A. Compressible Filler: Premolded filler strips complying with ASTM D1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from neoprene, urethane or PVC.
- B. Weep/Vent Products: Use one of the following unless otherwise indicated:
1. Wicking Material: Absorbent rope, made from cotton or UV-resistant synthetic fiber, 1/4 to 3/8 inch in diameter, in length required to produce 2-inch exposure on exterior and 18 inches in cavity. Use only for weeps.
  2. Round Plastic Weep/Vent Tubing: Medium-density polyethylene, 3/8-inch OD by 4 inches long.
  3. Rectangular Plastic Weep/Vent Tubing: Clear butyrate, 3/8 by 1-1/2 by 3-1/2 inches long.
  4. Cellular Plastic Weep/Vent: One-piece, flexible extrusion made from UV-resistant polypropylene copolymer, full height and width of head joint and depth 1/8 inch less than depth of outer wythe, in color selected from manufacturer's standard.

5. Mesh Weep/Vent: Free-draining mesh; made from polyethylene strands, full height and width of head joint and depth 1/8 inch less than depth of outer wythe; in color selected from manufacturer's standard.
- C. Cavity Drainage Material: Free-draining mesh, made from polymer strands that will not degrade within the wall cavity.
1. Configuration: Provide one of the following:
    - a. Strips, full depth of cavity and 10 inches high, with dovetail-shaped notches 7 inches deep that prevent clogging with mortar droppings.
    - b. Strips, not less than 3/4 inch thick and 10 inches high, with dimpled surface designed to catch mortar droppings and prevent weep holes from clogging with mortar.
    - c. Sheets or strips, full depth of cavity and installed to full height of cavity.
    - d. Sheets or strips not less than 3/4 inch thick and installed to full height of cavity with additional strips 4 inches high at weep holes and thick enough to fill entire depth of cavity and prevent weep holes from clogging with mortar.

## 2.8 MASONRY CLEANERS

- A. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains, efflorescence, and other new construction stains from new masonry without discoloring or damaging masonry surfaces. Use product expressly approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Diedrich Technologies, Inc.; a Hohmann & Barnard company.
    - b. PROSOCO, Inc.

## 2.9 MORTAR MIXES

- A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.
1. Do not use calcium chloride in mortar or grout.
  2. Use portland cement-lime, masonry cement or mortar cement mortar unless otherwise indicated.
  3. For exterior masonry, use portland cement-lime, masonry cement, or]mortar cement mortar.
  4. For reinforced masonry, use portland cement-lime, masonry cement,or mortar cement mortar.
  5. Add cold-weather admixture (if used) at same rate for all mortar that will be exposed to view, regardless of weather conditions, to ensure that mortar color is consistent.
- B. Preblended, Dry Mortar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by weight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.
- C. Mortar for Unit Masonry: Comply with ASTM C270, Proportion Specification. Use Type N unless another type is indicated.

1. For masonry below grade or in contact with earth, use Type M.

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION**

- A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
  1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

#### **3.2 INSTALLATION, GENERAL**

- A. Leave openings for equipment to be installed before completing masonry. After installing equipment, complete masonry to match the construction immediately adjacent to opening.
- B. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.
- C. Select and arrange units for exposed unit masonry to produce a uniform blend of colors and textures. Mix units from several pallets or cubes as they are placed.
- D. Matching Existing Masonry: Match coursing, bonding, color, and texture of existing masonry.

#### **3.3 TOLERANCES**

- A. Dimensions and Locations of Elements:
  1. For dimensions in cross section or elevation, do not vary by more than plus 1/2 inch or minus 1/4 inch.
  2. For location of elements in plan, do not vary from that indicated by more than plus or minus 1/2 inch.
  3. For location of elements in elevation, do not vary from that indicated by more than plus or minus 1/4 inch in a story height or 1/2 inch total.
- B. Lines and Levels:
  1. For bed joints and top surfaces of bearing walls, do not vary from level by more than 1/4 inch in 10 feet, or 1/2 inch maximum.
  2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2 inch maximum.
  3. For vertical lines and surfaces, do not vary from plumb by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2 inch maximum.
  4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2 inch maximum.
  5. For lines and surfaces, do not vary from straight by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2 inch maximum.
  6. For vertical alignment of exposed head joints, do not vary from plumb by more than 1/4 inch in 10 feet, or 1/2 inch maximum.

7. For faces of adjacent exposed masonry units, do not vary from flush alignment by more than 1/16 inch except due to warpage of masonry units within tolerances specified for warpage of units.

C. Joints:

1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch, with a maximum thickness limited to 1/2 inch.
2. For exposed bed joints, do not vary from bed-joint thickness of adjacent courses by more than 1/8 inch.
3. For head and collar joints, do not vary from thickness indicated by more than plus 3/8 inch or minus 1/4 inch.
4. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch. Do not vary from adjacent bed-joint and head-joint thicknesses by more than 1/8 inch.
5. For exposed bed joints and head joints of stacked bond, do not vary from a straight line by more than 1/16 inch from one masonry unit to the next.

### 3.4 LAYING MASONRY WALLS

- A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.
- B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in bond pattern indicated on Drawings do not use units with less-than-nominal 4-inch horizontal face dimensions at corners or jambs.
- C. Stopping and Resuming Work: Stop work by stepping back units in each course from those in course below; do not tooth. When resuming work, clean masonry surfaces that are to receive mortar, remove loose masonry units and mortar, and wet brick if required before laying fresh masonry.
- D. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.
- E. Fill space between steel frames and masonry solidly with mortar unless otherwise indicated.

### 3.5 MORTAR BEDDING AND JOINTING

- A. Lay hollow brick with face shells fully bedded in mortar and with head joints of depth equal to bed joints. At starting course, fully bed entire units, including area under cells.
  1. At anchors and ties, fully bed units and fill cells with mortar as needed to fully embed anchors and ties in mortar.
- B. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.

### 3.6 ANCHORED MASONRY VENEERS

- A. Anchor masonry veneers to wall framing and concrete and masonry backup with masonry-veneer anchors to comply with the following requirements:

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1. Fasten screw-attached anchors through sheathing to wall framing and to concrete and masonry backup with metal fasteners of type indicated. Use two fasteners unless anchor design only uses one fastener.
  2. Embed connector sections and continuous wire in masonry joints.
  3. Locate anchor sections to allow maximum vertical differential movement of ties up and down.
  4. Space anchors as indicated, but not more than 18 inches o.c. vertically and 24 inches o.c. horizontally, with not less than one anchor for each 2 sq. ft. of wall area. Install additional anchors within 12 inches of openings and at intervals, not exceeding 8 inches, around perimeter.
- B. Provide not less than 1-1/2 inches of airspace between back of masonry veneer and face of sheathing.
1. Keep airspace clean of mortar droppings and other materials during construction. Bevel beds away from airspace, to minimize mortar protrusions into airspace. Do not attempt to trowel or remove mortar fins protruding into airspace.

### **3.7 EXPANSION JOINTS**

- A. General: Install expansion-joint materials in unit masonry as masonry progresses. Do not allow materials to span expansion joints without provision to allow for in-plane wall or partition movement.
- B. Form expansion joints as follows:
1. Build flanges of metal expansion strips into masonry. Lap each joint 4 inches in direction of water flow. Seal joints below grade and at junctures with horizontal expansion joints if any.
  2. Build flanges of factory-fabricated, expansion-joint units into masonry.
  3. Build in compressible joint fillers where indicated.
  4. Form open joint full depth of brick wythe and of width indicated, but not less than 3/8 inch for installation of sealant and backer rod specified in Section 079200 "Joint Sealants."

### **3.8 LINTELS**

- A. Install steel lintels where indicated.
- B. Provide minimum bearing of 8 inches at each jamb unless otherwise indicated.

### **3.9 FLASHING, WEEP HOLES, AND VENTS**

- A. Install flashing as follows unless otherwise indicated:
1. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing with adhesive, sealant, or tape.
  2. Extend flashing through veneer, across airspace behind veneer, and up face of sheathing at least 8 inches; with upper edge tucked under water-resistive barrier lapping at least 4 inches. Fasten upper edge of flexible flashing to sheathing through termination bar.
  3. At lintels and shelf angles, extend flashing a minimum of 6 inches into masonry at each end. At heads and sills, extend flashing 6 inches at ends and turn up not less than 2 inches to form end dams.



4. Interlock end joints of ribbed sheet metal flashing by overlapping ribs not less than 1-1/2 inches or as recommended by flashing manufacturer, and seal lap with elastomeric sealant complying with requirements in Section 079200 "Joint Sealants" for application indicated.
  5. Install metal drip edges and sealant stops with ribbed sheet metal flashing by interlocking hemmed edges to form hooked seam. Seal seam with elastomeric sealant complying with requirements in Section 079200 "Joint Sealants" for application indicated.
  6. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch back from outside face of wall, and adhere flexible flashing to top of metal drip edge.
  7. Install metal flashing termination beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch back from outside face of wall, and adhere flexible flashing to top of metal flashing termination.
  8. Cut flexible flashing off flush with face of wall after masonry wall construction is completed.
- B. Install weep holes in veneers in head joints of first course of masonry immediately above embedded flashing.
1. Use specified weep/vent products to form weep holes.
  2. Use wicking material to form weep holes above flashing under brick sills. Turn wicking down at lip of sill to be as inconspicuous as possible.
  3. Space weep holes 24 inches o.c. unless otherwise indicated.
  4. Space weep holes formed from plastic tubing or wicking material 16 inches o.c.
  5. Cover cavity side of weep holes with plastic insect screening at cavities insulated with loose-fill insulation.
  6. Trim wicking material flush with outside face of wall after mortar has set.
- C. Place cavity drainage material in airspace behind veneers to comply with configuration requirements for cavity drainage material in "Miscellaneous Masonry Accessories" Article.
- D. Install vents in head joints in exterior wythes at spacing indicated. Use specified weep/vent products to form vents.
1. Close cavities off vertically and horizontally with blocking in manner indicated. Install through-wall flashing and weep holes above horizontal blocking.

### **3.10 REPAIRING, POINTING, AND CLEANING**

- A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.
- B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application, where indicated.
- C. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
- D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:
1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.

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2. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning of masonry.
3. Protect adjacent stone and nonmasonry surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.
4. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
5. Clean brick by bucket-and-brush hand-cleaning method described in BIA Technical Notes 20.
6. Clean masonry with a proprietary acidic cleaner applied according to manufacturer's written instructions.
7. Clean stone trim to comply with stone supplier's written instructions.
8. Clean limestone units to comply with recommendations in ILI's "Indiana Limestone Handbook."

**3.11 MASONRY WASTE DISPOSAL**

- A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.
- B. Waste Disposal as Fill Material: Dispose of clean masonry waste, including excess or soil-contaminated sand, waste mortar, and broken masonry units, by crushing and mixing with fill material as fill is placed.
  1. Crush masonry waste to less than 4 inches in each dimension.
  2. Mix masonry waste with at least two parts of specified fill material for each part of masonry waste.
  3. Do not dispose of masonry waste as fill within 18 inches of finished grade.
- C. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above or recycled, and other masonry waste, and legally dispose of off Owner's property.

**END OF SECTION 042613**