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**ADDENDUM NUMBER 01**

**December 06, 2024**

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**PROJECT: FORT PAYNE HIGH SCHOOL COMPETITION GYM AND CLASSROOM ADDITION**  
**ARCHITECT: GOODWYN MILLS CAWOOD, LLC**  
**CONSTRUCTION MANAGER: SCOUT PROGRAM MANAGEMENT**  
**OWNER: FORT PAYNE CITY SCHOOLS**

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**GENERAL:**

- A. The following revisions and/or additions to the Drawings and Project Manual are hereby made a part of same, and shall be incorporated in the Work of the Contract the same as if originally included in the Bid and Construction Documents.
- B. Bidders shall acknowledge receipt of this Addendum in writing, as provided on the Proposal Form.
- C. When a revision and/or addition is called for to the Drawings or Project Manual, they shall be fully coordinated with and carried through all applicable Drawings and portions of the Project Manual, including in part, all related Civil, Landscaping, Architectural, Structural, Plumbing, Mechanical, Electrical, and other Documents.

**CLARIFICATIONS & PROJECT INFORMATION:**

- A. The bid date shall be December 19<sup>th</sup>, 2024 at the Board of Education Bldg. Conference Room 45<sup>th</sup> Street, Fort Payne AL Bids shall be received until 2:00 p.m. CST at which point they will be publicly opened.
- B. Any bidder that wishes to tour the campus at alternate times can contact:  
Kevin Sayer  
Fort Payne City Schools  
[ksayre@fpcsk12.com](mailto:ksayre@fpcsk12.com)
- C. All proposed bidders shall hold an Alabama Contractors License

**DRAWINGS (replace the following sheets)**

- A. Sheet G1.01
- B. Sheet G2.01a
- C. Sheet A1.01
- D. Sheet A6.01

**SPECIFICATIONS**

- A. Replace Section 01 2100 Allowances with the attached revised Section 01 2100
- B. Add Section 09 6466 Wood Athletic Flooring, attached
- C. Add revised Table of Contents

- D. Add GMC CAD file release and fee schedule
- E. Add Section 08 7100 Door Hardware

**RFI LOG**

See attached RFI log. Unanswered items will be addressed in a future addendum.

**END OF ADDENDUM NO. 1**

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SECTION 00 0103  
PROJECT DIRECTORY

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Identification of project team members and their contact information.

1.02 OWNER:

- A. Name: Forty Payne City Schools
1. Address Line 1: 205 45th Street NE
  2. City: Fort Payne
  3. State: AL
  4. Zip Code: 36967
  5. Telephone: 256-845-0915
- B. Primary Contact: All correspondence from the Contractor to the Architect will be through this party, unless alternate arrangements are mutually agreed upon at preconstruction meeting.
1. Title: Superintendent
  2. Name: Brian Jett
  3. Email: bjett@fpcsk12.com

1.03 CONSULTANTS:

- A. Architect: Design Professional of Record. All correspondence from the Contractor regarding construction documents authored by Architect's consultants will be through this party, unless alternate arrangements are mutually agreed upon at preconstruction meeting.
1. Architect:
    - a. Company Name: GMC, LLC
    - b. Address: 117 Jefferson St. North
    - c. City: Huntsville
    - d. State: AL
    - e. Zip Code: 35801
    - f. Telephone: 256-539-3431
  2. Primary Contact:
    - a. Title: Project Manager
    - b. Name: Jay W. Purkey, AIA NCARB
    - c. Email: jay.purkey@gmcnetwork.com

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**B. Civil Engineering Consultant:**

- a. Company Name: GMC, LLC
- b. Address: 2400 5th Ave South, Suite 200
- c. City: Birmingham
- d. State: AL
- e. Zip Code: 35223
- e. Telephone: 205-879-4462

2. **Primary Contact:**

- a. Title: Civil Engineer
- b. Name: Corey Shoop, PE
- c. Email: Corey.shoop@gmcnetwork.com

**C. Landscape Architecture Consultant:**

1. Company Name: GMC, LLC
  - a. Address: 2400 5th Ave. South, Suite 200
  - b. City: Birmingham
  - c. State: AL
  - d. Zip Code: 35233
  - f. Telephone: 205-879-4462

2. **Primary Contact:**

- a. Title: Landscape Architect.
- b. Name: Amanda Fonte
- c. Email: Amanda.fonte@gmcnetwork.com

**D. Structural Engineering Consultant:**

- a. Company Name: 200 Chase Park South, Suite 125
- b. Address: 3300 Cahaba Road, Suite 210
- c. City: Hoover
- d. State: AL
- e. Zip Code: 35244
- f. Telephone: 205-824-5200

2. **Primary Contact:**

- a. Title: Principal
- b. Name: Craig Winn, PE
- c. Email: Cwinn@sdg-us.com

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E. **Mechanical, Plumbing and Electrical Engineering Consultant:**

- a. Company Name: Rocket MEP
- b. Address: P.O Box 127
- c. City: Gurley
- d. State: AL
- e. Zip Code: 35748
- f. Telephone: 256-203-6373

2. **Primary Contact:**

- a. Title: President, Electrical Engineer
- b. Name: Josh Meharg, PE.
- c. Email: Josh@rocketmep.com

1.04 **CONSTRUCTION MANAGER:**

- a. Company Name: Scout Program Management
- b. Address: 850 Corporate Parkway #114
- c. City: Birmingham
- d. State: AL
- e. Zip Code: 35242
- f. Telephone: 205-484-9629

2. **Primary Contact:**

- a. Title: Principal
- b. Name: Jay Grubbs
- c. Email: Jay@scoutpm.com

1.05 **PART 2: PRODUCTS - NOT USED**

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**END OF SECTION**

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- M. OWNER’S STATEMENT OF RESPONSIBILITY FOR TORNADO STORM SHELTER (DCM FORM B-15)
- N. ALABAMA SALES AND USE TAX CERTIFICATE EXEMPTION
- O. GENERAL INFORMATION AND INSTRUCTIONS REGARDING THE REPORTING FOR CONTRACTORS AWARDED AN EXEMPTION CERTIFICATE

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2.03

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**END OF SECTION**

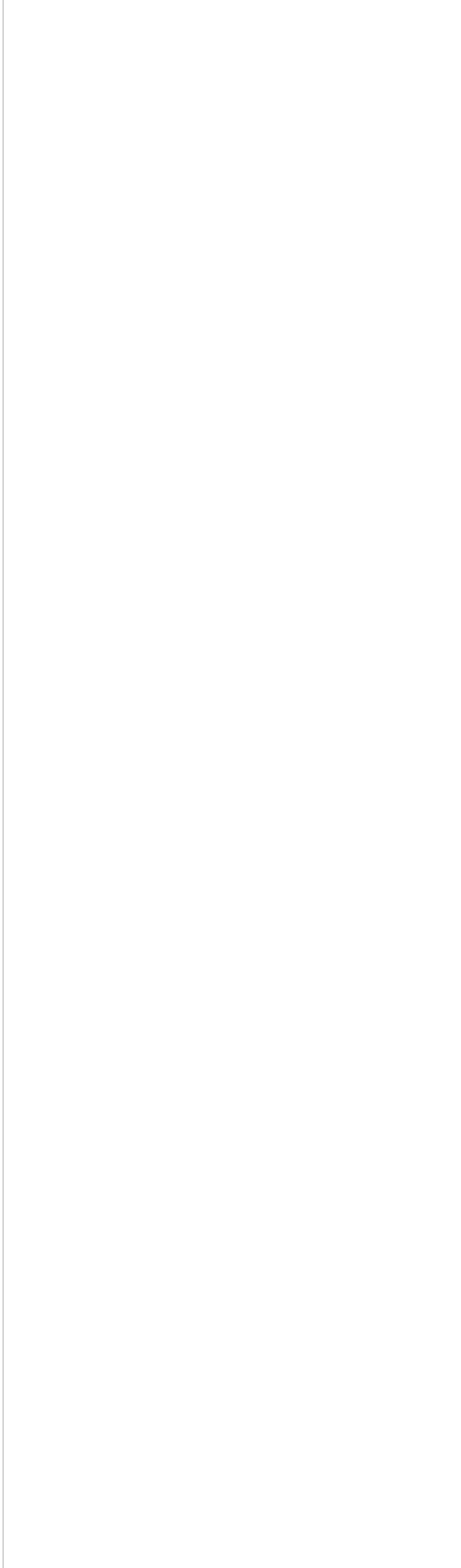


DRAWING INDEX

Table with columns DWG. NO. and DRAWING NAME. Lists drawing titles such as TITLE SHEET, GENERAL INFORMATION, ACCESSIBILITY DATA, etc.

Table with columns DWG. NO. and DRAWING NAME. Lists plumbing drawings such as UPPER LEVEL - SYSTEMS PLAN, ENLARGED ELECTRICAL PLANS, etc.

MOCKUP WALL



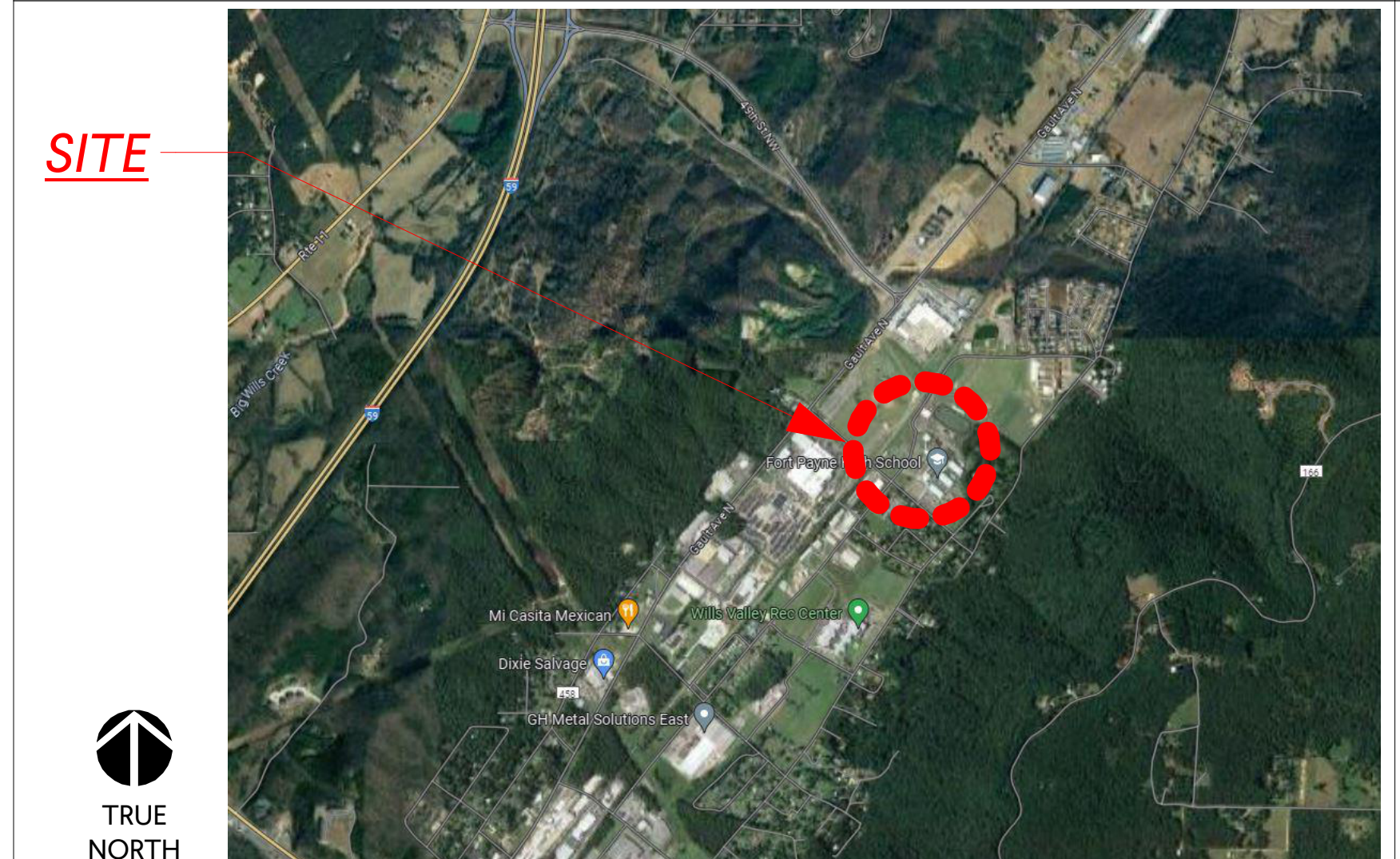
ABBREVIATIONS

Table of abbreviations and their meanings, organized in columns. Includes terms like ACCESSIBLE, AMERICAN CONCRETE INSTITUTE, etc.

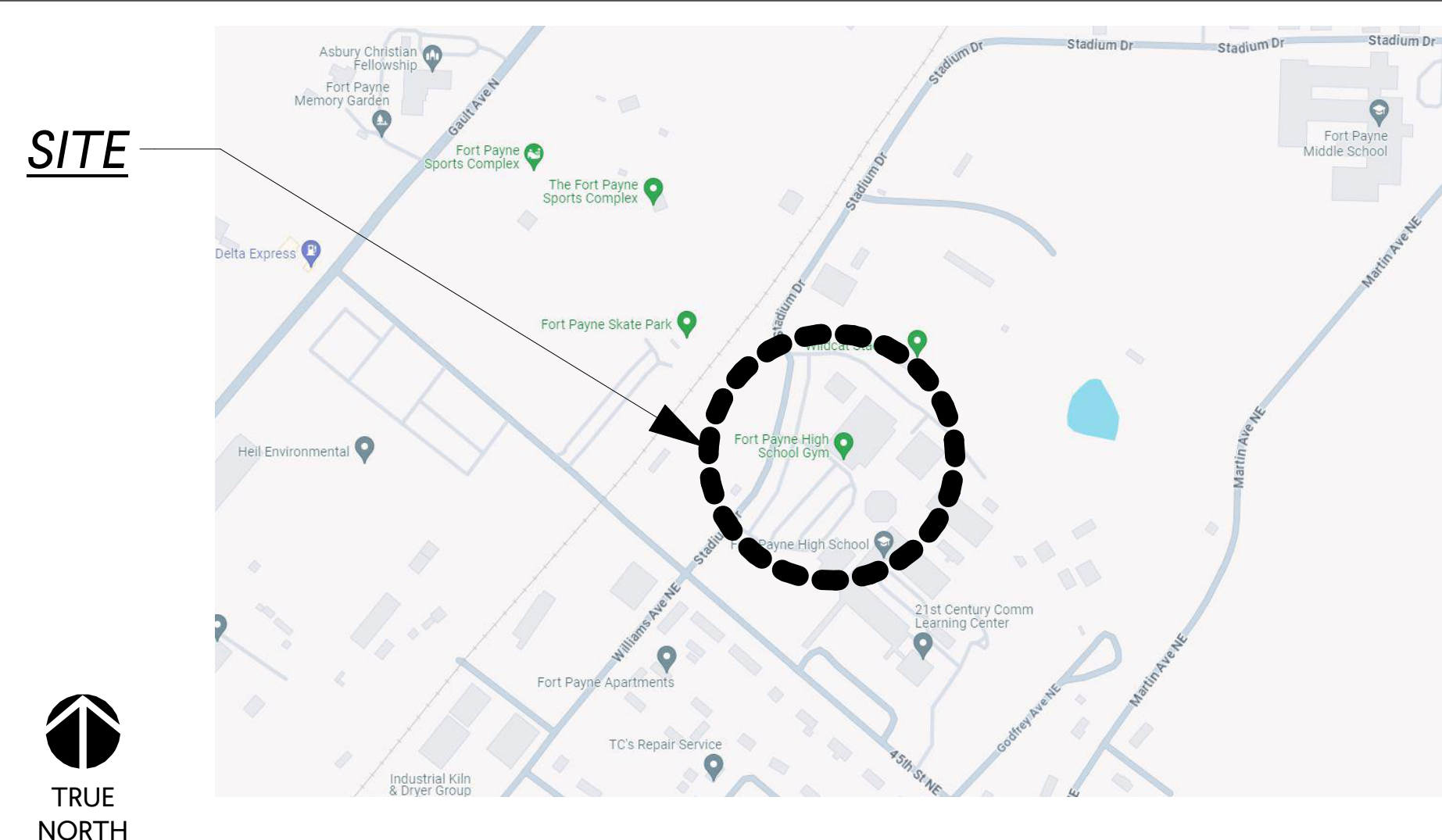
ANNOTATION SYMBOLS & TAGS

Diagram showing various annotation symbols and tags with their corresponding meanings, such as ROOM REFERENCE TAG, CURTAINWALL TAG, etc.

VICINITY MAP



LOCATION MAP



Goodwyn Mills Carwood, LLC
2400 6th Avenue South, Suite 200
Birmingham, AL 35233
T 205.879.4462
GMCNETWORK.COM

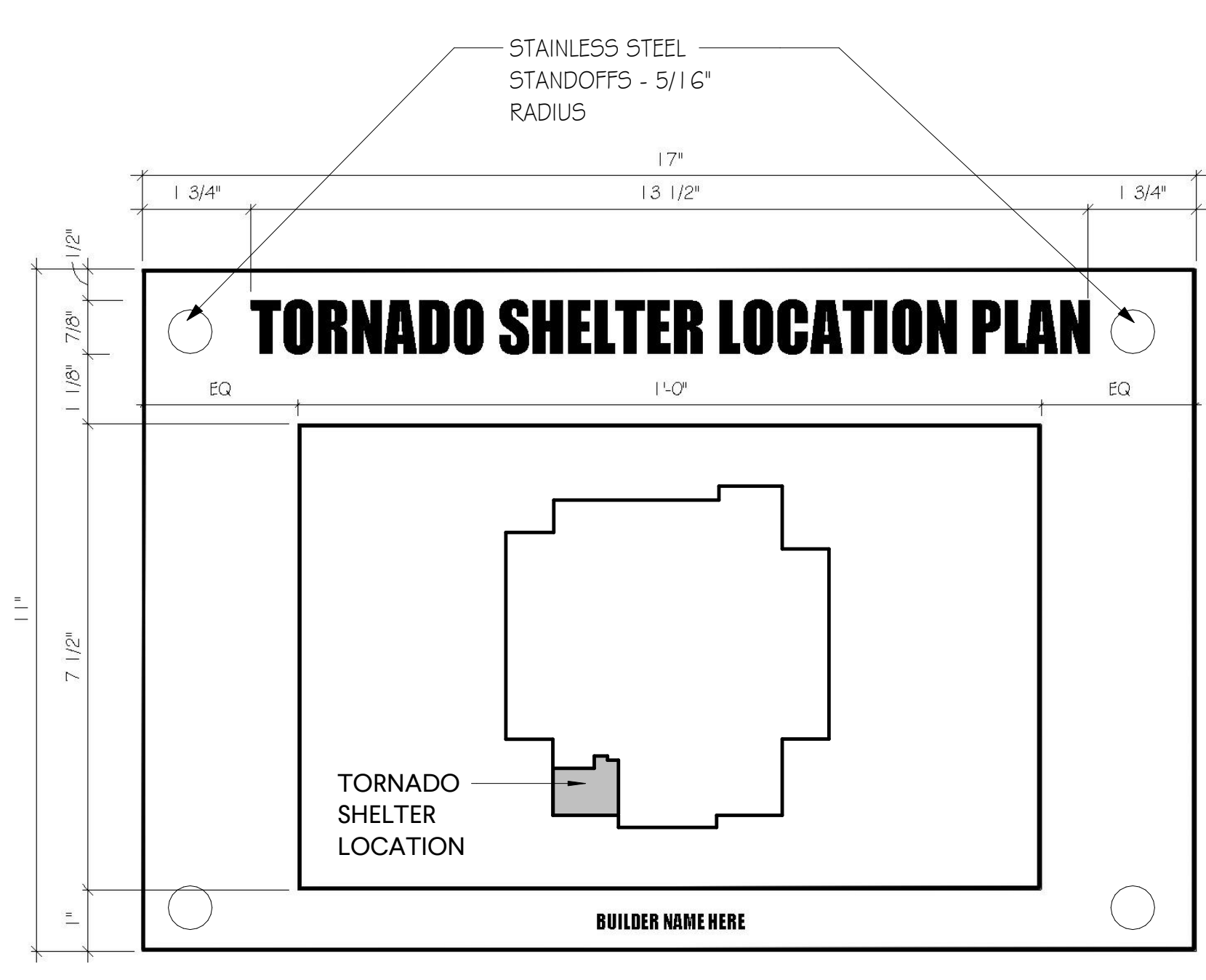
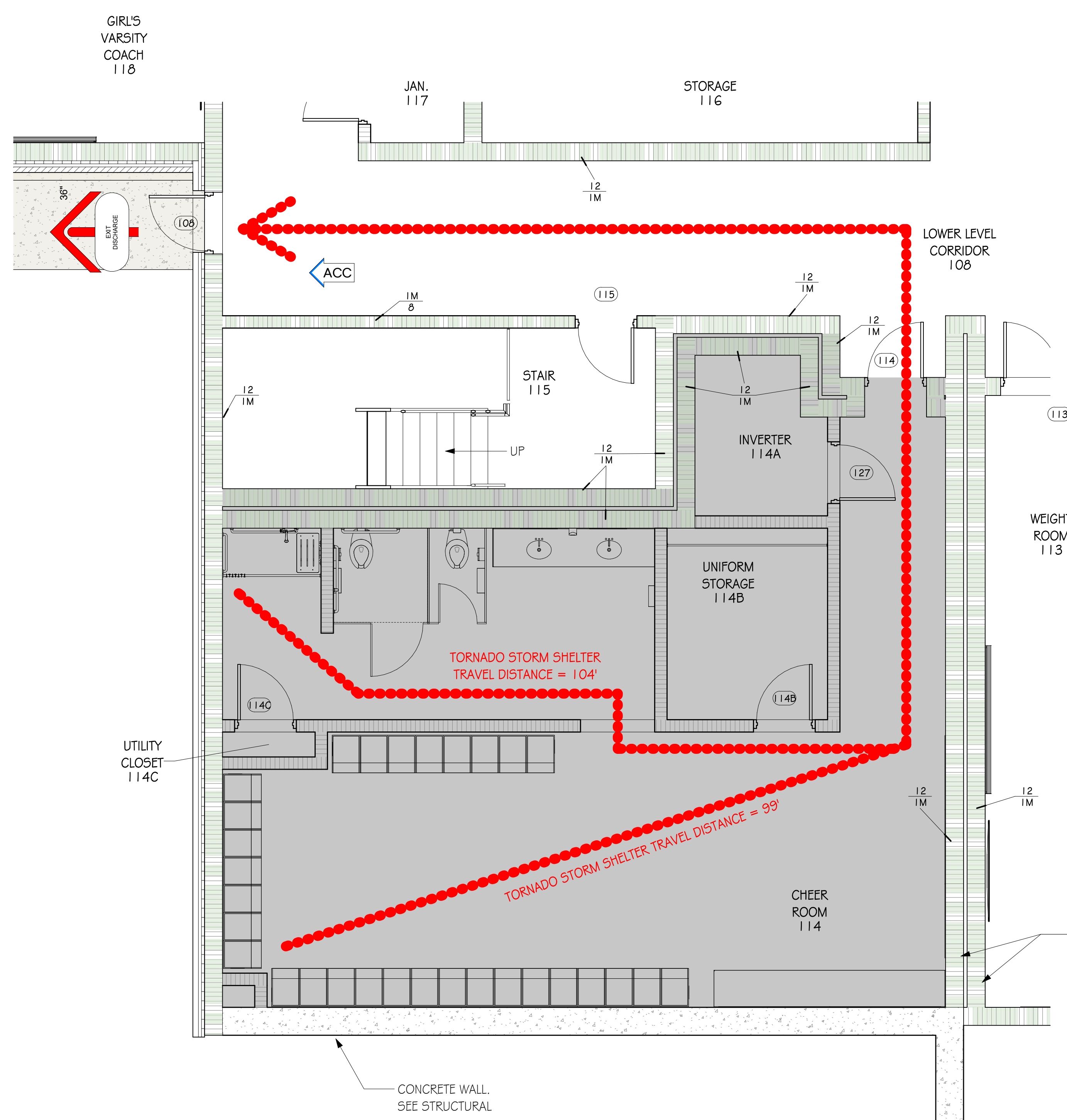
Table with columns ISSUE, DATE, and DESCRIPTION. Lists drawing revision history.

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
20145th STREET NE,
FORT PAYNE, AL 35967
DCM # 20240548
GMC AHUN23009

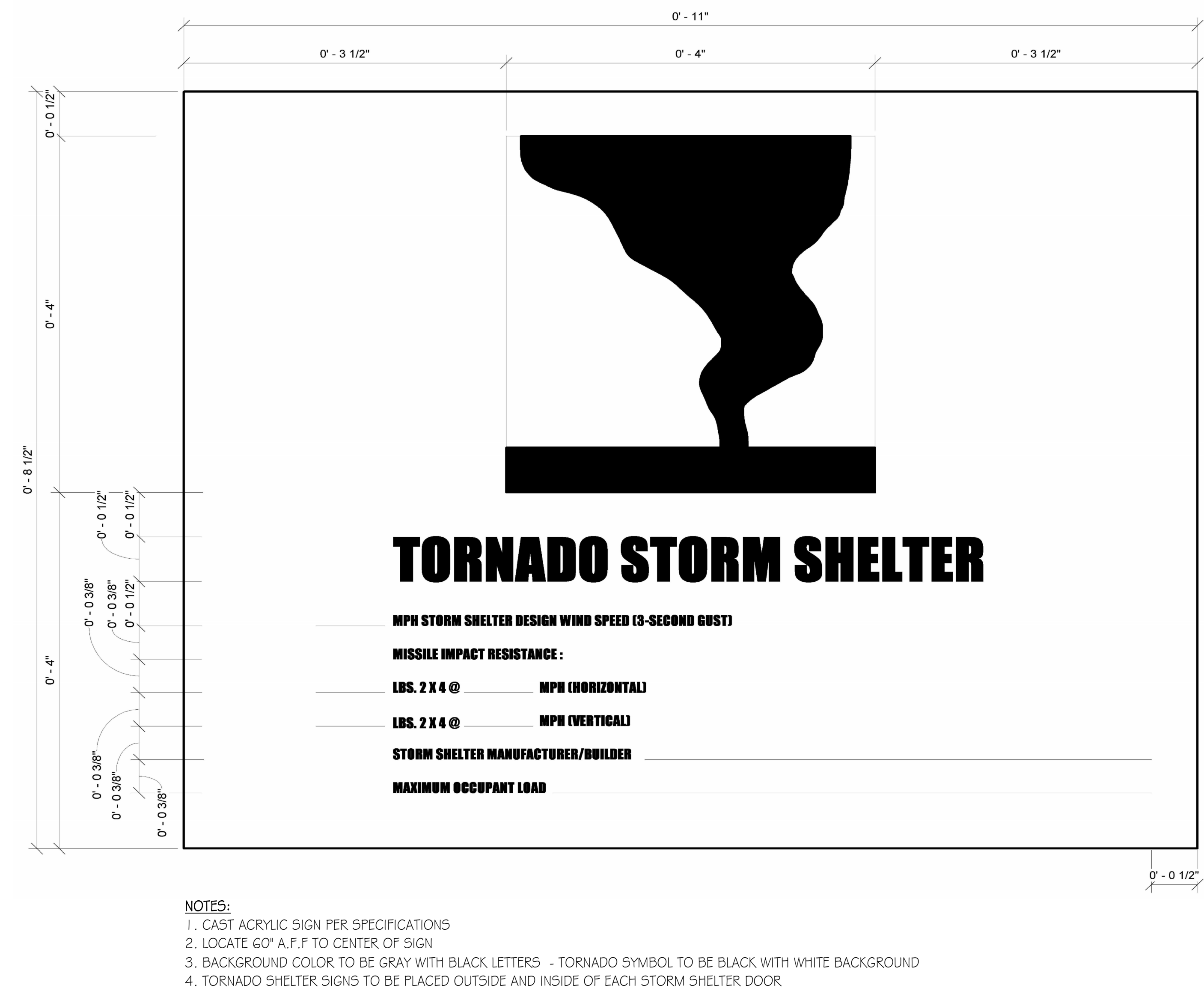
DRAWING INDEX & GENERAL INFORMATION
G1.01

12/16/2024 12:38:17 PM TEMPLATE VERSION: 2021





**H6 LIFE SAFETY - STORM SHELTER**  
SCALE: 1/4" = 1'-0"



**PLAN LEGEND**

FE	FIRE EXTINGUISHER
FHC	FIRE HOSE CONNECTION
FEC	FIRE EXTINGUISHER CABINET
MS	FIRE ALARM MANUAL PULL STATION
FHM	FIRE ALARM HORN
FS	FIRE ALARM STROBE
FHS	FIRE ALARM HORN/STROBE
FHS	FIRE ALARM HORN/STROBE-CEILING MT
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FAP	FIRE ALARM PANEL/SUBPANEL
MGA	MED GAS ALARM PANEL
⊗	ILLUMINATED EXIT SIGN
↑	EXIT DISCHARGE W/ CLEAR EXIT WIDTH (EXIT AND EXIT ACCESS SYMBOLS SIMILAR)
ACC	ADA ACCESSIBLE ROUTE
→	DISTANCE OF TRAVEL
---	0 - HR SMOKE-RESISTIVE PARTITION
---	1 - HR SMOKE BARRIER
---	1 - HR FIRE BARRIER
---	2 - HR FIRE BARRIER
---	2 - HR FIRE-SMOKE BARRIER
---	3 - HR FIRE BARRIER
---	4 - HR FIRE BARRIER

1. 1/4" CLEAR ACRYLIC SIGN PER SPEC SECTION 10400
2. LOCATE 60" FROM FINISHED FLOOR OR GROUND SURFACE TO BASELINE OF HIGHEST TACTILE CHARACTER
3. BACKGROUND COLOR TO BE WHITE WITH BLACK LETTERS
4. SIGN TO BE LOCATED IN BUILDING ENTRY SPACES, IN THE ADMINISTRATIVE AREAS, AND IN ANY ADDITIONAL LOCATIONS AS INDICATED ON PLANS

**E3 SHELTER ACCESS SIGNAGE**  
SCALE: NOT TO SCALE



- NOTES:**
1. CAST ACRYLIC SIGN PER SPECIFICATIONS
  2. LOCATE 60" A.F.F. TO CENTER OF SIGN
  3. BACKGROUND COLOR TO BE GRAY WITH BLACK LETTERS - TORNADO SYMBOL TO BE BLACK WITH WHITE BACKGROUND
  4. TORNADO SHELTER SIGNS TO BE PLACED OUTSIDE AND INSIDE OF EACH STORM SHELTER DOOR

**A3 SHELTER LEAVING SIGNAGE**  
SCALE: 6" = 1'-0"

**OCCUPANCY CLASSIFICATION**

OCCUPANCY	EDUCATIONAL
CONSTRUCTION TYPE	TYPE II-A FULLY SPRINKLERED

**MEANS OF EGRESS**

MAXIMUM ALLOWABLE	EDUCATIONAL
*TRAVEL DISTANCE TO EXIT	250 FT
*COMMON PATH OF TRAVEL	75 FT
*DEAD END LENGTH	50 FT

**EGRESS CAPACITY TABULATION**

OCCUPANCY	AREA	OCCUPANT LOAD	EGRESS WIDTH
STORM SHELTER	REQD 650 SF PROVIDED 980 SF	130 OCCUPANTS	STAIR REQUIRED 26" PROVIDED N/A

**STORM SHELTER CALCULATIONS**

INTERNATIONAL CODE COUNCIL 500-2020: ICC/ANSI STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS

DIVISION OF CONSTRUCTION MANAGEMENT (DCM) REQUIREMENTS: OCCUPANT LOAD IS CALCULATED AT 1 STUDENT PER 30 SF OF GROSS TYPICAL CLASSROOM AREA AND 1 STUDENT PER 50 SF OF NET LABORATORY CLASSROOM AREA PLUS 10% FOR FACULTY PER MEMORANDUM ISSUED BY THE DIVISION OF CONSTRUCTION MANAGEMENT (DCM) ON 07/29/10.

TOTAL OCCUPANTS  
TOTAL CLASSROOM AREA: 3,540 SF  
3,540 SF / 30 = 118 OCCUPANTS  
TOTAL STUDENTS: 118  
PLUS 10% FACULTY: 12  
REQUIRED TOTAL OCCUPANT LOAD = 130 [129 SEATED; 1 WHEELCHAIR]  
PROVIDED TOTAL OCCUPANT LOAD: 194 OCCUPANTS

STANDING OR SEATED SPACE REQUIREMENTS: 5 SF/PERSON  
WHEELCHAIR SPACE REQUIREMENTS: 10 SF/PERSON

EACH STORM SHELTER SHALL BE SIZED TO ACCOMMODATE A MINIMUM OF ONE WHEELCHAIR SPACE FOR EVERY 200 SHELTER OCCUPANTS. 130 / 200 = 0.65 OR 1 MIN. (EDITORS NOTE: ROUND CALCULATED VALUE UP TO NEAREST WHOLE NUMBER)

194 OCCUPANTS X 5 SF/PERSON [E OCCUPANCY] = 970 SF  
1 WHEELCHAIR OCCUPANTS X (10 SF/PERSON - 5 SF/PERSON) = 10 SF

CLASSROOMS/WORK ROOM:  
ICC 500 501.1.2.1: CALCULATION OF USABLE FLOOR AREA. THE USABLE SHELTER FLOOR AREA SHALL BE DETERMINED BY USING THE FOLLOWING PERCENTAGES:  
1. REDUCING THE GROSS FLOOR AREA OF SHELTER AREAS WITH CONCENTRATED FURNISHINGS OR FIXED SEATING BY A MINIMUM OF 50 PERCENT.  
2. REDUCING THE GROSS FLOOR AREA OF SHELTER AREAS WITH UNCONCENTRATED FURNISHINGS AND WITHOUT FIXED SEATING BY A MINIMUM OF 35 PERCENT.  
3. REDUCING THE GROSS FLOOR AREA OF SHELTER AREAS WITH OPEN PLAN FURNISHINGS AND WITHOUT FIXED SEATING BY A MINIMUM OF 15 PERCENT.

TOTAL CLASSROOM/WORK ROOM AREA: 3,540 SF  
35% REDUCTION: 3,540 SF X .65 = 2,301 SF

CORRIDOR (OPEN AREA):  
ICC 500 501.1.2.2: ALTERNATIVE CALCULATION OF USABLE FLOOR AREA. THE USABLE SHELTER FLOOR AREA SHALL BE DETERMINED BY SUBTRACTING FROM THE GROSS FLOOR AREA, THE FLOOR AREA PARTITIONS AND WALLS, COLUMNS, FIXED OR MOVABLE OBJECTS, FURNITURE, EQUIPMENT, OR OTHER FEATURES THAT UNDER PROBABLE CONDITIONS CANNOT BE REMOVED.

TOTAL CORRIDOR (OPEN AREA): 3,172 SF

TOTAL SQUARE FOOTAGE (WITHOUT TOILETS)  
REQUIRED: 970 SF  
PROVIDED: 2,570 SF

PLUMBING FIXTURES  
TOILETS  
REQUIRED: 2 (2 MIN + 1 PER 500 OCCUPANTS)  
PROVIDED: 2  
LAVATORIES  
REQUIRED: 1 (1 MIN; 1 PER 1,000 OCCUPANTS)  
PROVIDED: 2

702.4 FIRST AID KIT  
A FIRST AID KIT SHALL BE SUPPLIED IN ALL TORNADO SHELTERS WITH A SHELTER OCCUPANT LOAD OF GREATER THAN 50. GC TO SUPPLY 1000 PERSON KIT FOR TORNADO SAFETY ROOM WITH 501-1000 PERSON CAPACITY. GC IS RESPONSIBLE TO SUPPLY TWO (2) 1000 PERSON KITS FOR THE SHELTER.

REQUIRED STATEMENT OF RESPONSIBILITY FROM GENERAL CONTRACTORS AND SUBCONTRACTORS

107.3.3 CONTRACTOR RESPONSIBILITY. EACH CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND-FORCE RESISTING SYSTEM OR ANY COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE AUTHORITY HAVING JURISDICTION, THE RESPONSIBLE DESIGN PROFESSIONAL, AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTORS STATEMENT OF RESPONSIBILITY SHALL INCLUDE:  
1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.  
2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.  
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTORS ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF REPORTS.  
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

THE CONTRACTORS STATEMENT OF RESPONSIBILITY FORM, ISSUED PER THE DIVISION OF CONSTRUCTION MANAGEMENT (DCM), CAN BE FOUND IN THE SPECIFICATIONS OR A COPY CAN BE OBTAINED FROM THE ARCHITECT.



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**ISSUE DATE**

NO.	DATE	DESCRIPTION
1	11/26/24	ISSUE FOR PERMIT
2	12/26/24	ISSUE FOR CONSTRUCTION

**LIFE SAFETY PLAN - STORM SHELTER**

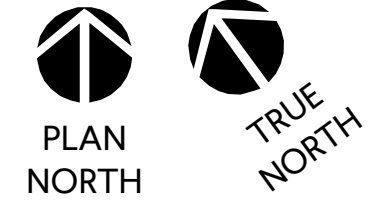
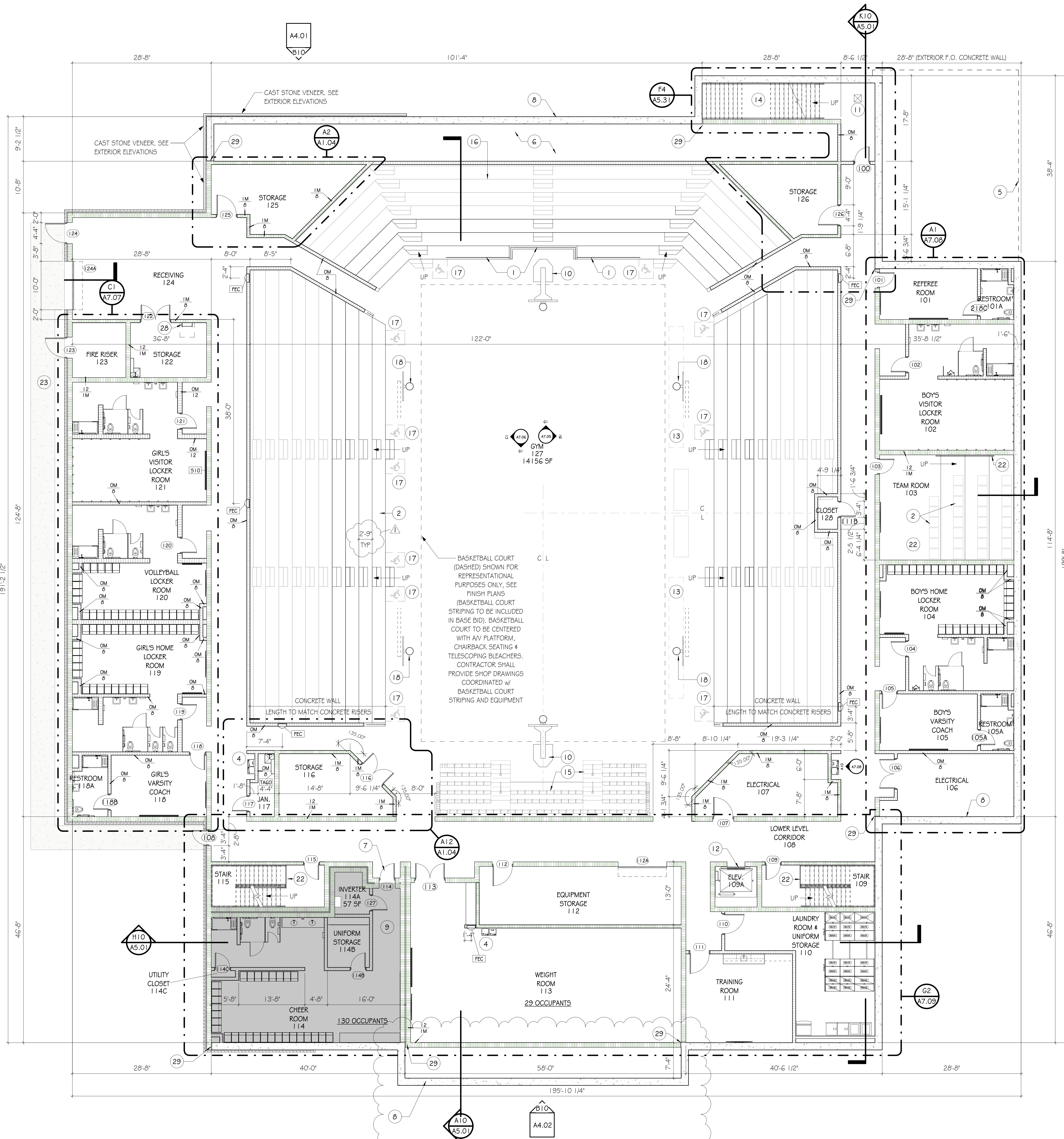
**FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION**

20145th STREET NE,  
FORT PAYNE, AL 35967

DCM # 20240548  
GMC AHUN23009

**G2.01A**





**A6 FLOOR PLAN - LOWER LEVEL**  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES - FLOOR PLAN**

**KEY NOTES - FLOOR PLAN**

- 1 42" CABLE GUARDRAIL, SEE DETAILS
- 2 PRIORITY SEATING, SEE SPECIFICATIONS & SEATING PLAN
- 3 GLASS DISPLAY CASE, SEE SPECIFICATIONS
- 4 DRINKING FOUNTAIN w/ BOTTLE FILLER, COORDINATE w/ PLUMBING FOR WATER AND ELECTRICAL FOR POWER.
- 5 LOCATION OF EXTERIOR WALL ABOVE (DASHED)
- 6 4 x 4 FIRE RETARDANT PLYWOOD
- 7 TORNADO RESISTANT DOOR & FRAME, SEE SCHEDULE
- 8 CONCRETE RETAINING WALL, SEE STRUCTURAL
- 9 DESIGNATED STORM SHELTER (HATCHED REGION)
- 10 ROLLING BASKETBALL GOAL, O.F.O.I (OWNER FURNISHED OWNER INSTALLED), SEE SPECIFICATIONS
- 11 CATCH BASIN, SEE CIVIL
- 12 MACHINE ROOMLESS ELEVATOR, SEE BUILDING SECTIONS AND/OR SPEC. S
- 13 TEAM SEATING AREA
- 14 EXTERIOR STAIR, SEE CIVIL
- 15 TELESCOPING BLEACHERS, SEE SEATING PLAN
- 16 STANDARD CHAIRBACK SEATING, SEE SEATING PLAN & SPECIFICATIONS
- 17 ADA DESIGNATED AISLE SEAT
- 18 RETRACTABLE CEILING MOUNTED BASKETBALL GOAL, O.F.O.I (OWNER FURNISHED CONTRACTOR INSTALLED), SEE SPECIFICATIONS
- 19 50' x 94' REGULATION BASKETBALL COURT, SEE STRIPING PLAN
- 20 CAST-STONE WALL CAP w/ CONCRETE RETAINING WALL BELOW, SEE STRUCTURAL FOR RETAINING WALL DETAILS
- 21 CANOPY ABOVE, SEE EXTERIOR DETAILS
- 22 1 1/2" DIA. HANDRAIL, SHOP PRIMED & POWDER COATED
- 23 SIDEWALK, SEE CIVIL
- 24 AUDIO / VIDEO PLATFORM AT MAIN LEVEL, ALL COMPONENTS AND INSTALLATION BY SEATING MANUFACTURER
- 25 PREFINISHED METAL COPING, SEE SPECIFICATIONS
- 26 MECHANICAL ROOF TOP UNIT (SHOWN DASHED FOR REPRESENTATIONAL PURPOSES ONLY), SEE MECHANICAL DRAWINGS
- 27 SLOPED CONCRETE WALL (SEE STRUCTURAL) w/ RAILING ABOVE, RAILING COMPONENTS AND INSTALLATION BY RAILING MANUFACTURER.
- 28 ACCESS LADDER, SEE SPECIFICATIONS
- 29 EXPANSION JOINT, SEE STRUCTURAL
- 30 PREFABRICATED EXTRUDED ALUMINUM POST-SUPPORTED WALKWAY COVER, INSTALL PER MANUFACTURER REQUIREMENTS, SEE DETAILS
- 31 MECHANICAL CHASE
- 32 WALL MOUNTED SINK, COORDINATE w/ PLUMBING

**WALL LEGEND**

- INTERIOR GYPSUM ON METAL STUD
- 8" CMU
- 1-HOUR RATED 12" CMU
- CAST IN PLACE CONCRETE



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ISSUE	DATE
DCM FINAL SUBMITTAL 11/24/24	
ADDENDUM #1 12/6/24	

BRAWN BY: DC  
CHECKED BY: JP

**FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION**  
20145th STREET NE,  
FORT PAYNE, AL 35967

**FLOOR PLAN - LOWER LEVEL**

**A1.01**

DCM # 20240548  
GMC AHUN230019

12/16/2024 14:55:56 PM TEMPLATE VERSION: 20221



# DOOR SCHEDULE

DOOR NUMBER	LOCATION	ROOM NAME	WIDTH	HT	THK	DOOR		FRAME		HARDWARE			DETAILS			FIRE RATING	NUMBERED NOTES
						TYPE	MATERIAL	GLASS OR LOUVER TYPE	FRM	MATL	GLASS TYPE	HOLD OPEN	ELEC. COORD.	HEAD	JAMB		
100	LOWER LEVEL CORRIDOR		3'-0"	7'-0"	1 3/4"	FG2	WD	G4	F13	HM	SET 3.2				45 MIN		
101	REFEREE ROOM		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 12				45 MIN		
102	BOYS VISITOR LOCKER ROOM		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 13				45 MIN		
103	TEAM ROOM		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 13				45 MIN		
104	BOYS HOME LOCKER ROOM		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 13				45 MIN		
105	BOYS VARSITY COACH		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 12				45 MIN		
105A	RESTRROOM		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 17				45 MIN		
106	ELECTRICAL		6'-0"	7'-0"	1 3/4"	FG2	WD	G4	F13	HM	SET 7				45 MIN		
107	ELECTRICAL		4'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 10				45 MIN		
108	LOWER LEVEL CORRIDOR		3'-0"	7'-0"	1 3/4"	FG2	WD	G4	F13	HM	SET 3.2				45 MIN		
109	STAR		3'-0"	7'-0"	1 3/4"	NA	WD	G4	F13	HM	SET 6				45 MIN		
110	LOWER LEVEL CORRIDOR		4'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 13				45 MIN		
111	TRAINING ROOM		4'-0"	7'-0"	1 3/4"	FG	HM	G1	F13	HM	SET 13				45 MIN		
111B	LOWER LEVEL CORRIDOR		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 18				45 MIN		
111E	NORTH CONCESSIONS		8'-0"	4'-0"	3/4"	RS					SET 19						
112	LOWER LEVEL CORRIDOR		4'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 13				45 MIN		
112A	EQUIPMENT STORAGE		10'-0"	8'-0"	3/4"	RS					SET 19						
113	WEIGHT ROOM		6'-0"	7'-0"	1 3/4"	FG2	WD	G4	F13	HM	SET 16				45 MIN		
114	LOWER LEVEL CORRIDOR		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 20				90 MIN	F.E.M.A Rated Tornado Door	
114B	CHEER ROOM		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 13				45 MIN		
114C	CHEER ROOM		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 18				45 MIN		
115	LOWER LEVEL CORRIDOR		3'-0"	7'-0"	1 3/4"	NA	WD	G4	F13	HM	SET 6				45 MIN		
116	GYM		6'-0"	7'-0"	1 3/4"	FG2	WD	G4	F13	HM	SET 8				45 MIN		
117	LOWER LEVEL CORRIDOR		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 11				45 MIN		
118	GIRLS VARSITY COACH		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 12				45 MIN		
118B	GIRLS VARSITY COACH		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 17				45 MIN		
119	GIRLS HOME LOCKER ROOM		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 13				45 MIN		
120	VOLLEYBALL LOCKER ROOM		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 13				45 MIN		
121	GIRLS VISITOR LOCKER ROOM		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 13				45 MIN		
122	RECEIVING		6'-0"	7'-0"	1 3/4"	FG2	WD	G4	F13	HM	SET 8				45 MIN		
123	FIRE RISER		4'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 4				45 MIN		
124	RECEIVING		4'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 3.1				45 MIN		
124A	RECEIVING		10'-0"	10'-0"	3/4"	RS					SET 19						
125	STORAGE		4'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 9				45 MIN		
126	STORAGE		4'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 9				45 MIN		
127	INVERTER		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 9				45 MIN		
200	MAIN LEVEL CONCOURSE		3'-0"	7'-0"	1 3/4"	FG2	WD	G1	F1	HM	SET 13				45 MIN		
201	MAIN LEVEL CONCOURSE		6'-0"	8'-4"	1 3/4"	FG	HM	G1	F13	HM	SET 2				45 MIN		
202	MAIN LEVEL CONCOURSE		3'-0"	7'-0"	1 3/4"	WD	G1	F1	HM	SET 13					45 MIN		
203	MAIN LEVEL CONCOURSE		3'-0"	7'-0"	1 3/4"	FG2	WD	G1	F1	HM	SET 5				45 MIN		
204	MAIN LEVEL CONCOURSE		3'-0"	7'-0"	1 3/4"	FG2	WD	G1	F1	HM	SET 5				45 MIN		
205	ELECTRICAL		3'-0"	7'-0"	1 3/4"	FG2	WD	G1	F1	HM	SET 10				45 MIN		
206	MAIN LEVEL CONCOURSE		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 9				45 MIN		
207	JANITOR		3'-0"	7'-0"	1 3/4"	FG2	WD	G1	F1	HM	SET 9				45 MIN		
208A	VESTIBULE		6'-0"	8'-6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL	SET 11				45 MIN		
208B	VESTIBULE		6'-0"	8'-6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL	SET 11				45 MIN		
208C	VESTIBULE		6'-0"	8'-6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL	SET 11				45 MIN		
208E	MAIN LOBBY		6'-0"	8'-6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL	SET 12				45 MIN		
208F	MAIN LOBBY		6'-0"	8'-6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL	SET 12				45 MIN		
208G	MAIN LOBBY		6'-0"	8'-6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL	SET 12				45 MIN		
209	STAR		3'-0"	7'-0"	1 3/4"	NA	WD	G4	F13	HM	SET 6				45 MIN		
210	MAIN LEVEL CONCOURSE		4'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 12				45 MIN		
210A	CONCESSIONS		11'-0"	6'-0"	3/4"	RS					SET 19						
212	FAMILY RR		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 17				45 MIN		
213	STAR		3'-0"	7'-0"	1 3/4"	NA	WD	G4	F13	HM	SET 6				45 MIN		
214	STORAGE		4'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 9				45 MIN		
215	MAIN LEVEL CONCOURSE		4'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 2				45 MIN		
216	MAIN LEVEL CONCOURSE		6'-0"	8'-6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL	SET 11				45 MIN		
217	MAIN LEVEL CONCOURSE		6'-0"	8'-6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL	SET 11				45 MIN		
218	MAIN LEVEL CONCOURSE		4'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 9				45 MIN		
218C	REFEREE ROOM		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 17				45 MIN		
219	COSMETOLOGY LAUNDRY STORAGE		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 18				45 MIN		
300	FOUNDERS ROOM		3'-0"	7'-0"	1 3/4"	F	HM		F13	HM	SET 13				45 MIN		
301	STAR		3'-0"	7'-0"	1 3/4"	NA	WD	G4	F13	HM	SET 6				45 MIN		

# DOOR NUMBERED NOTES

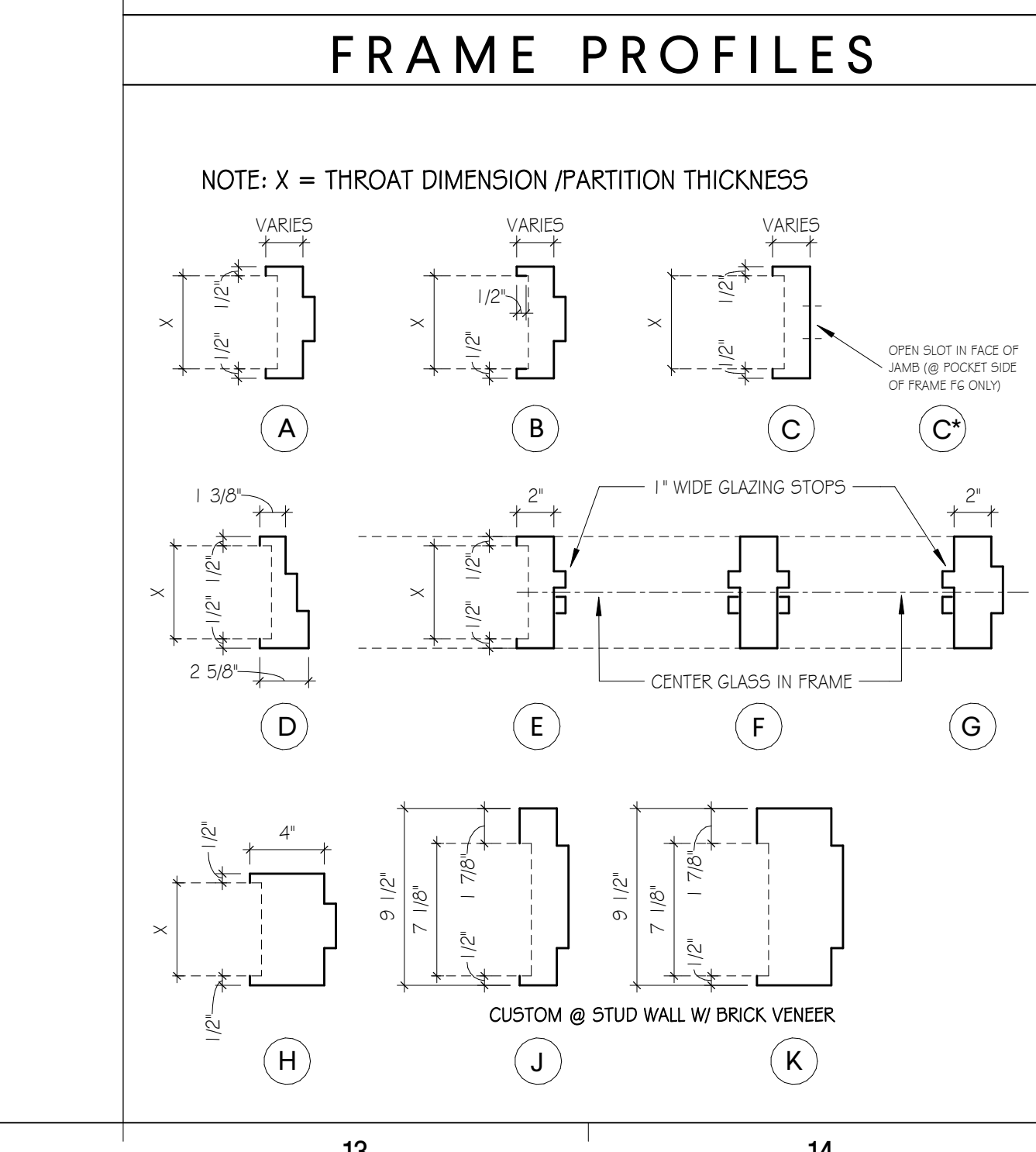
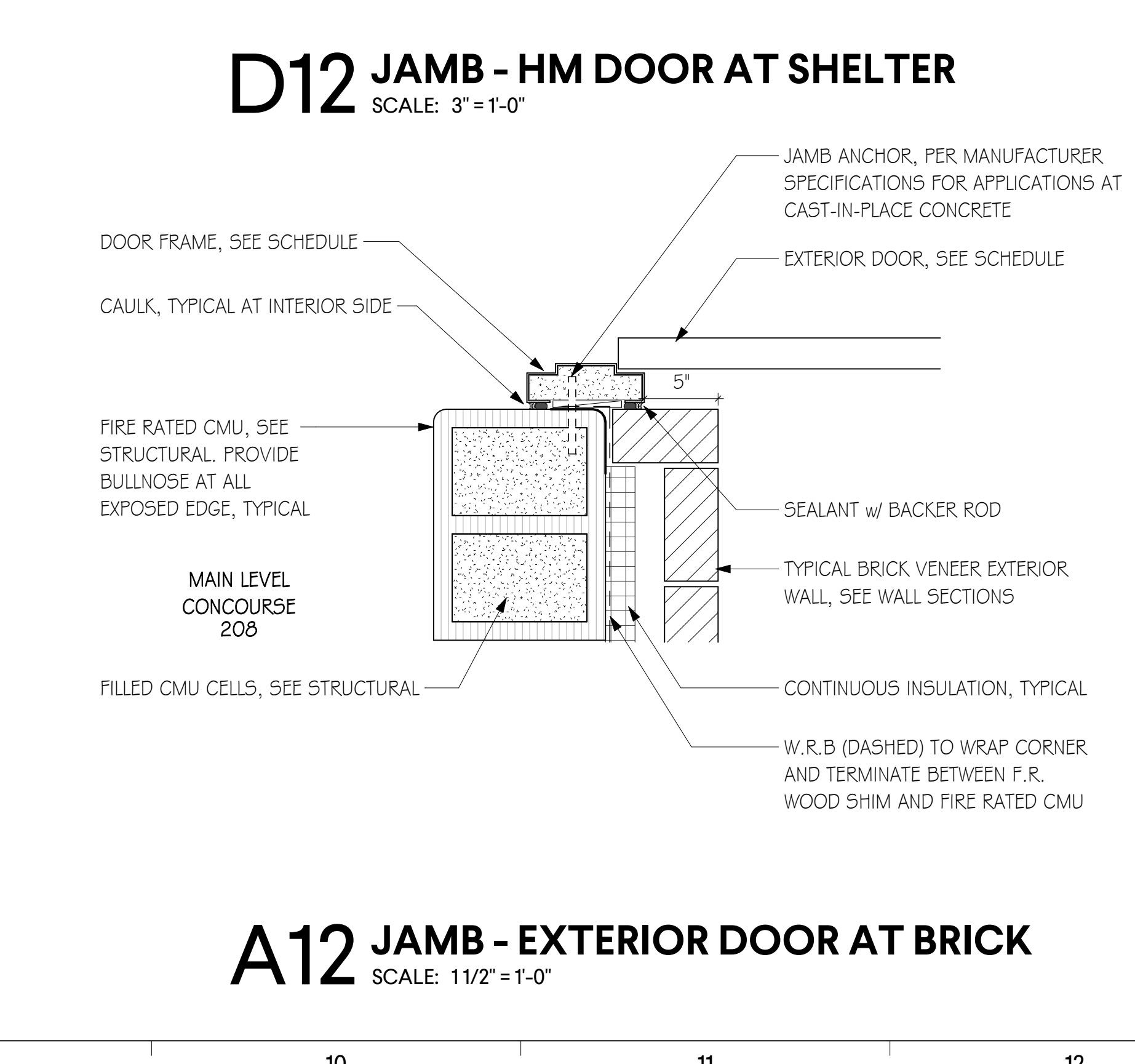
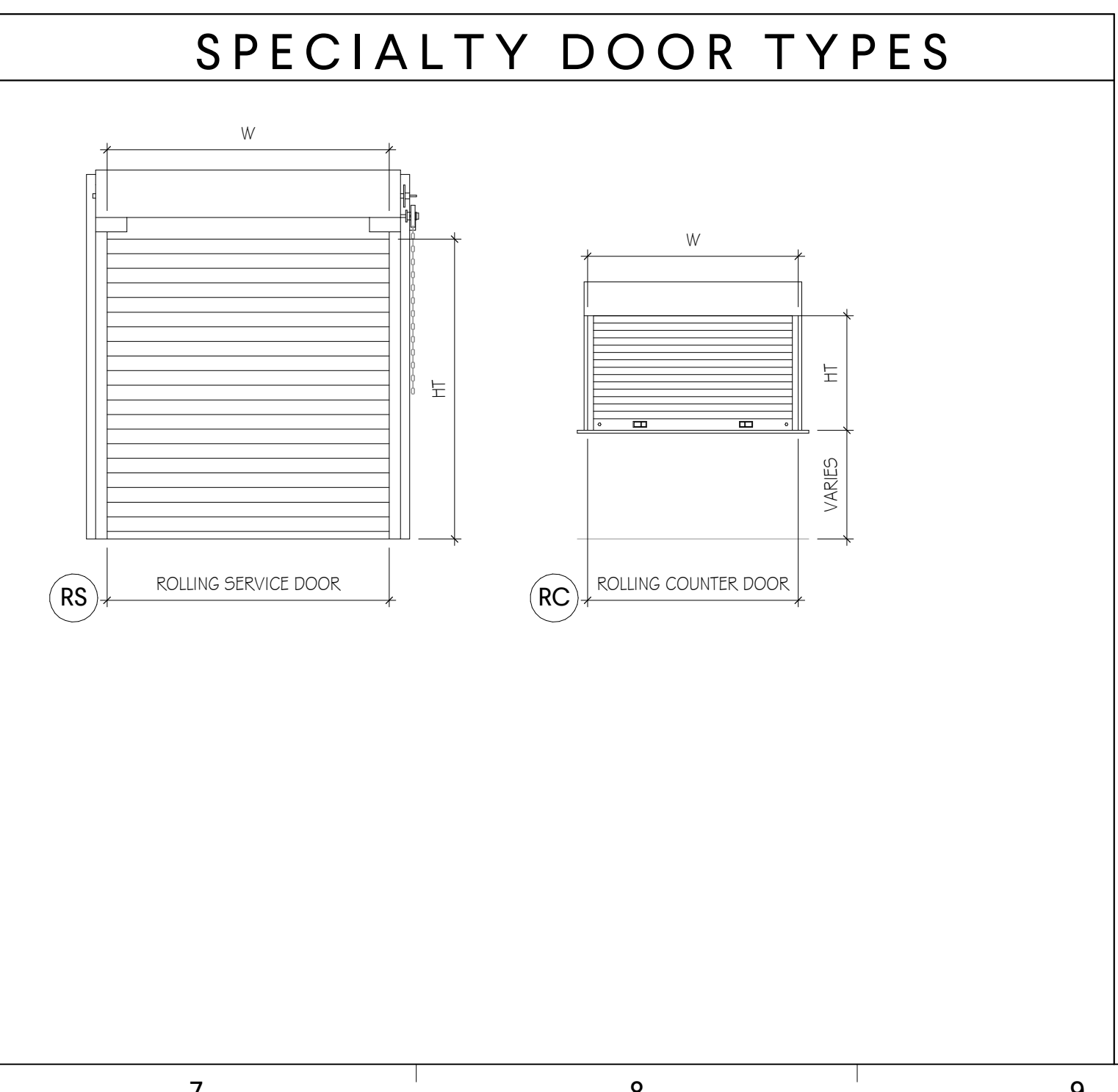
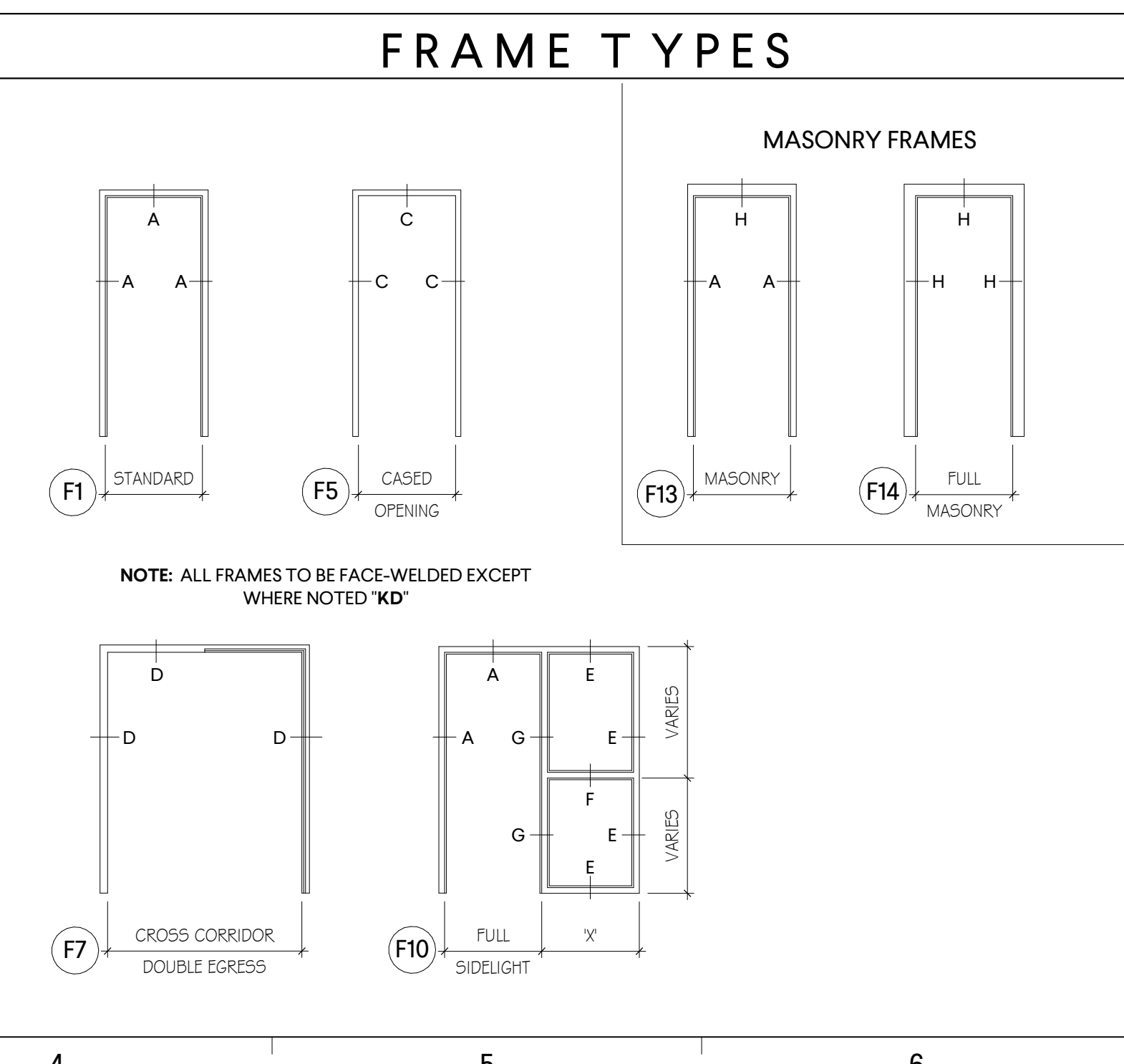
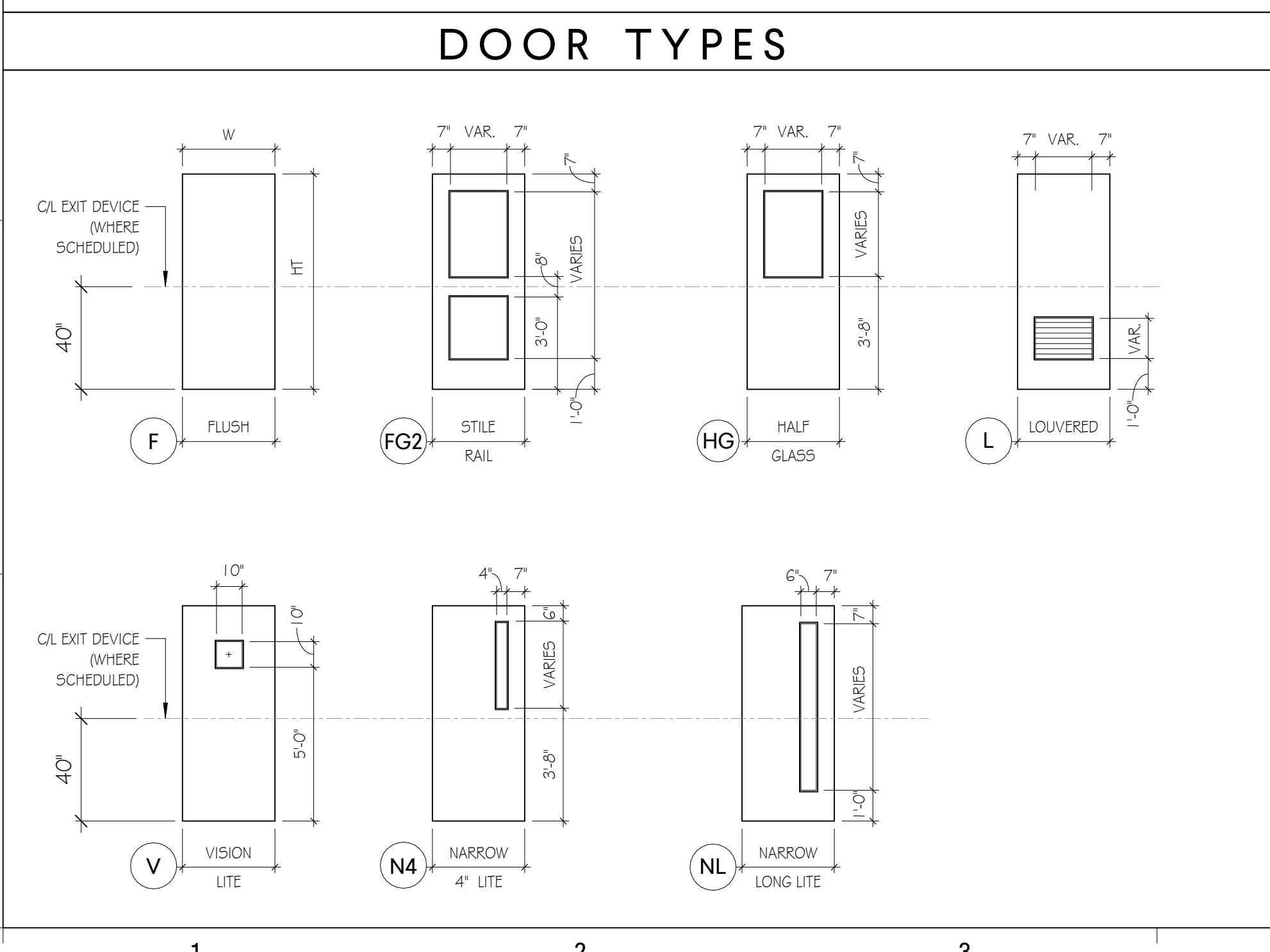
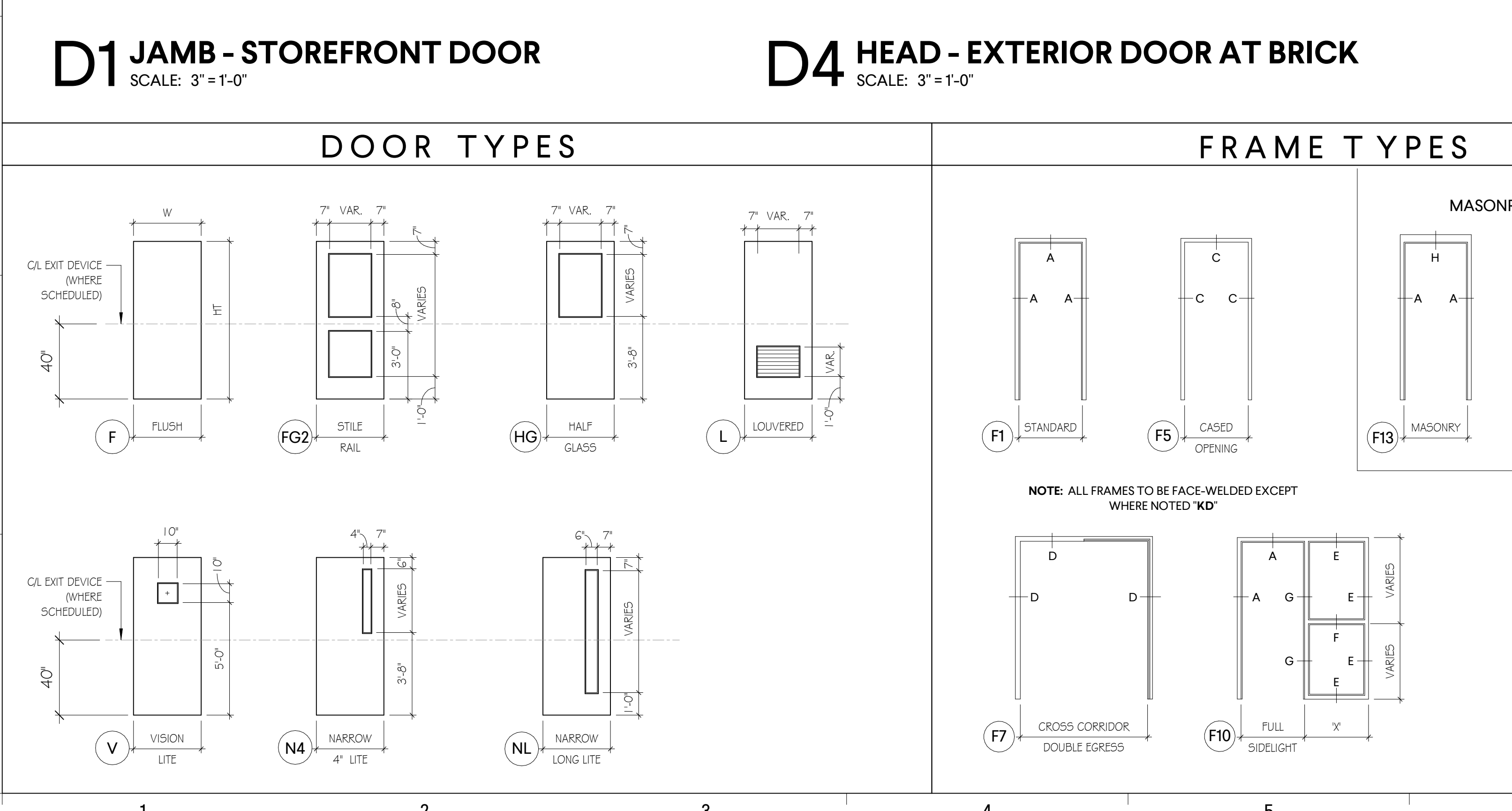
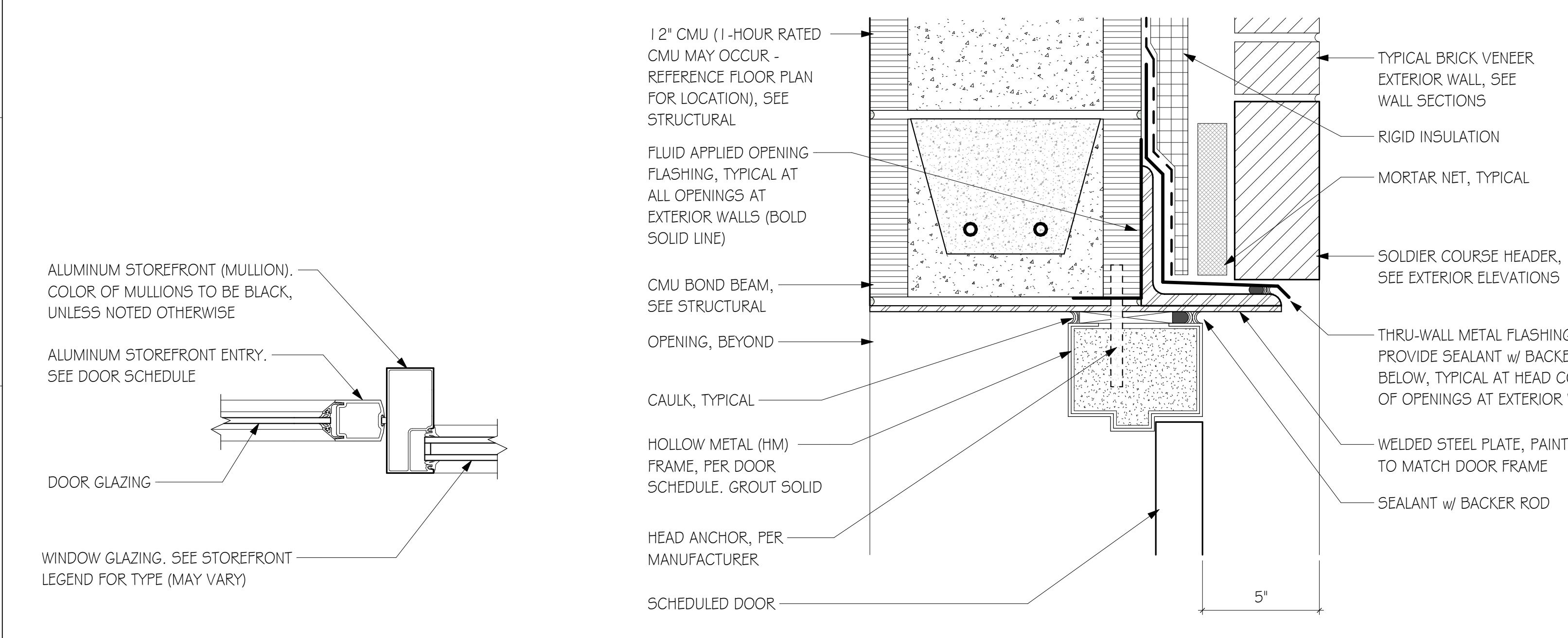
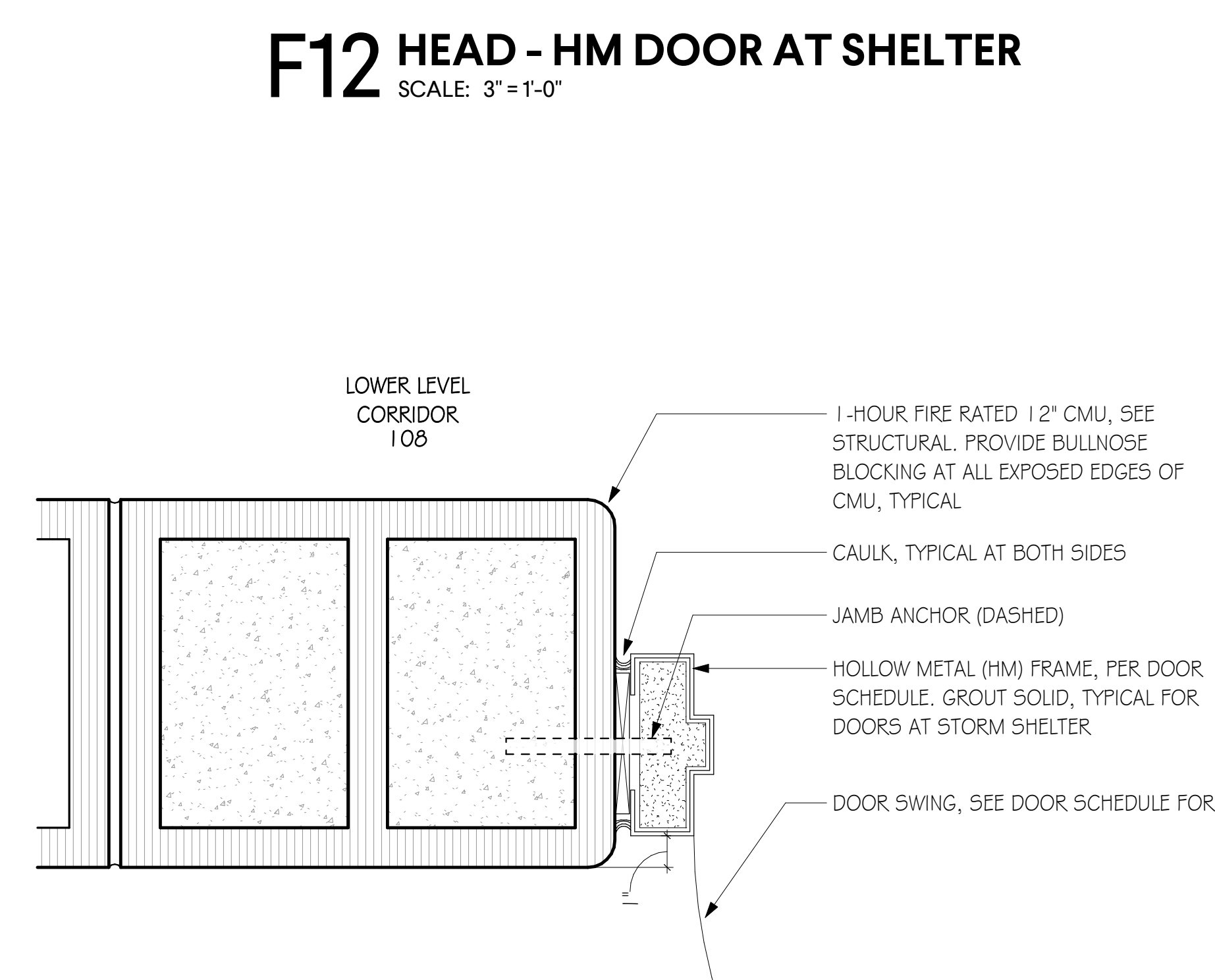
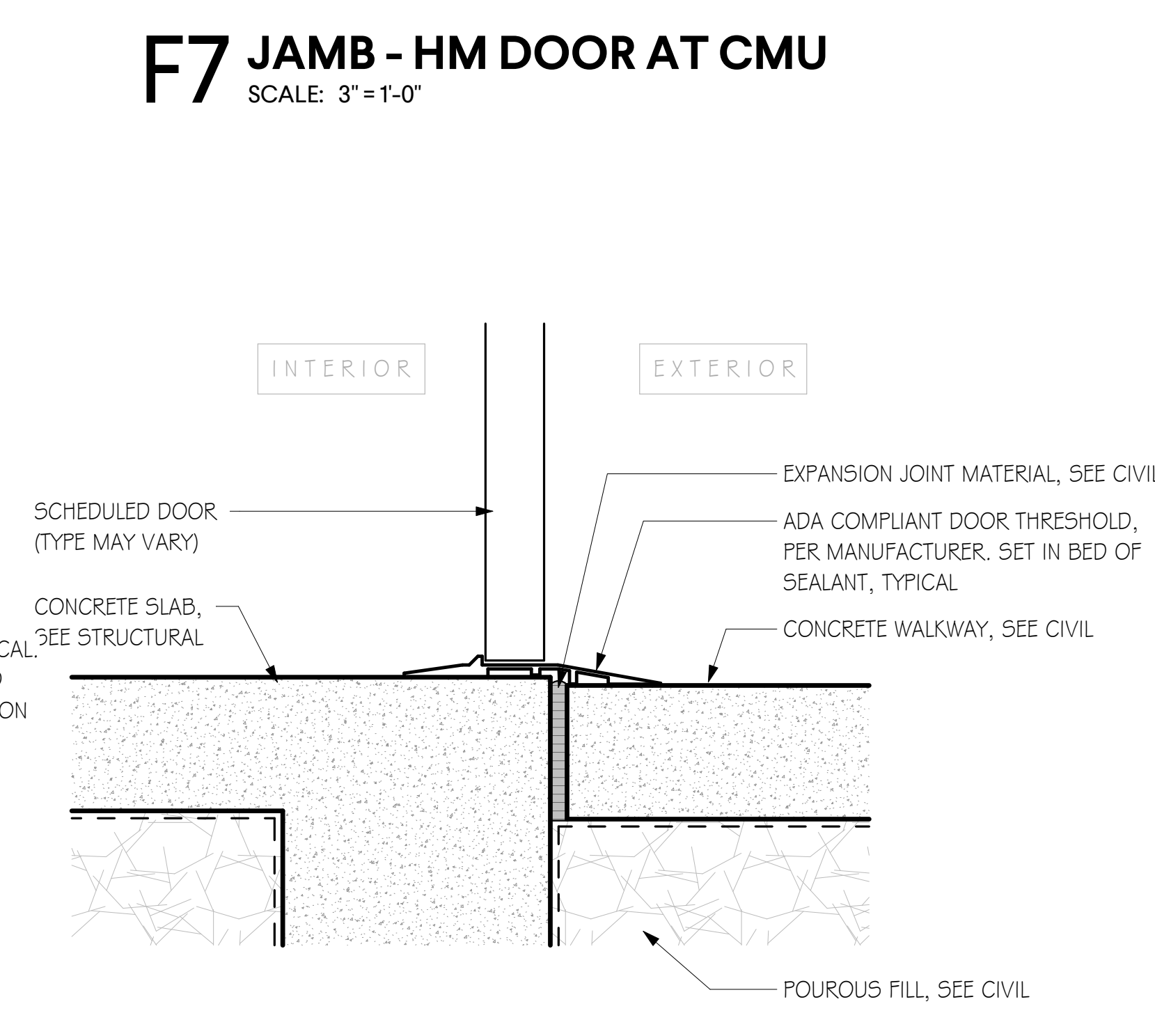
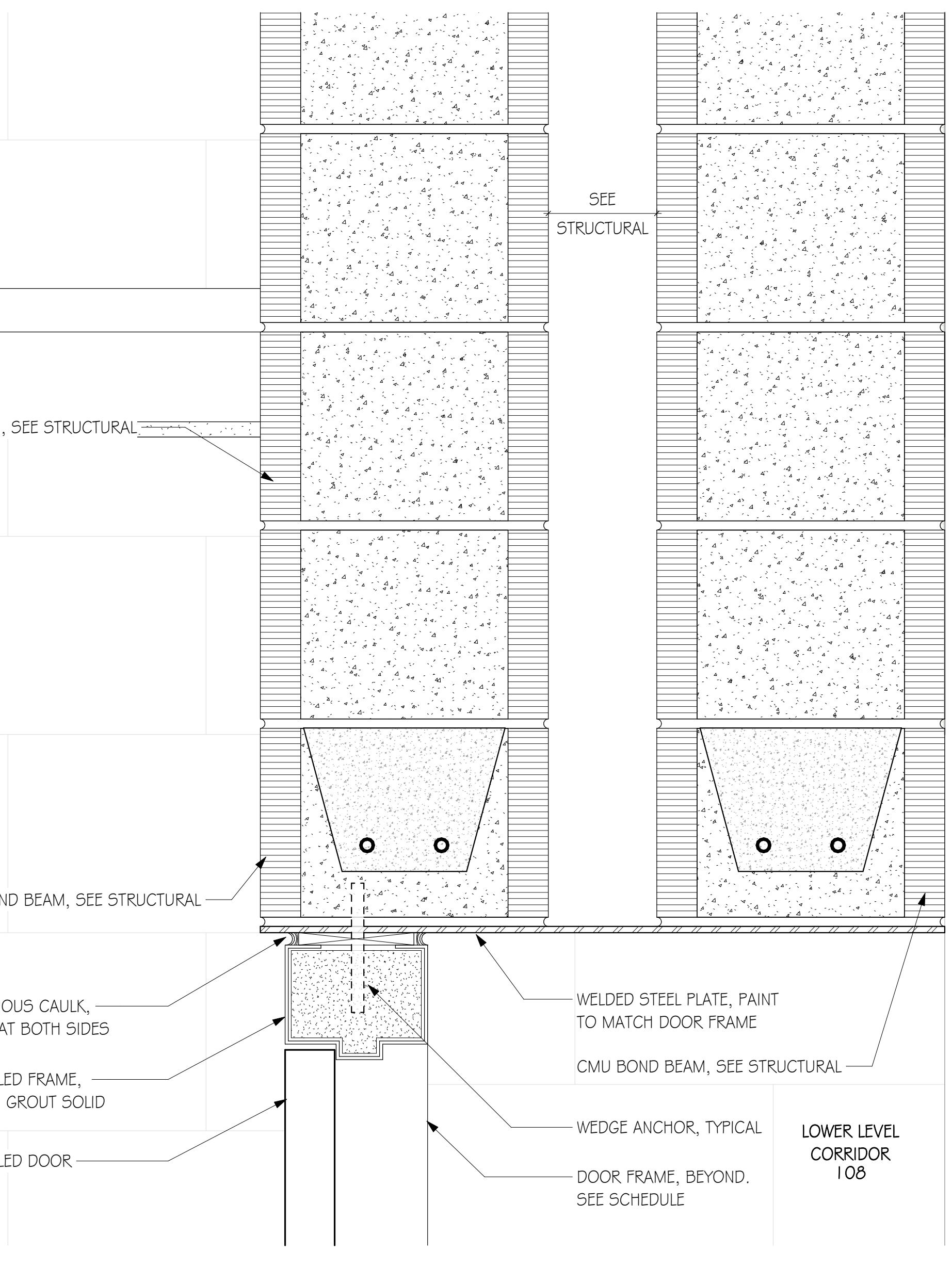
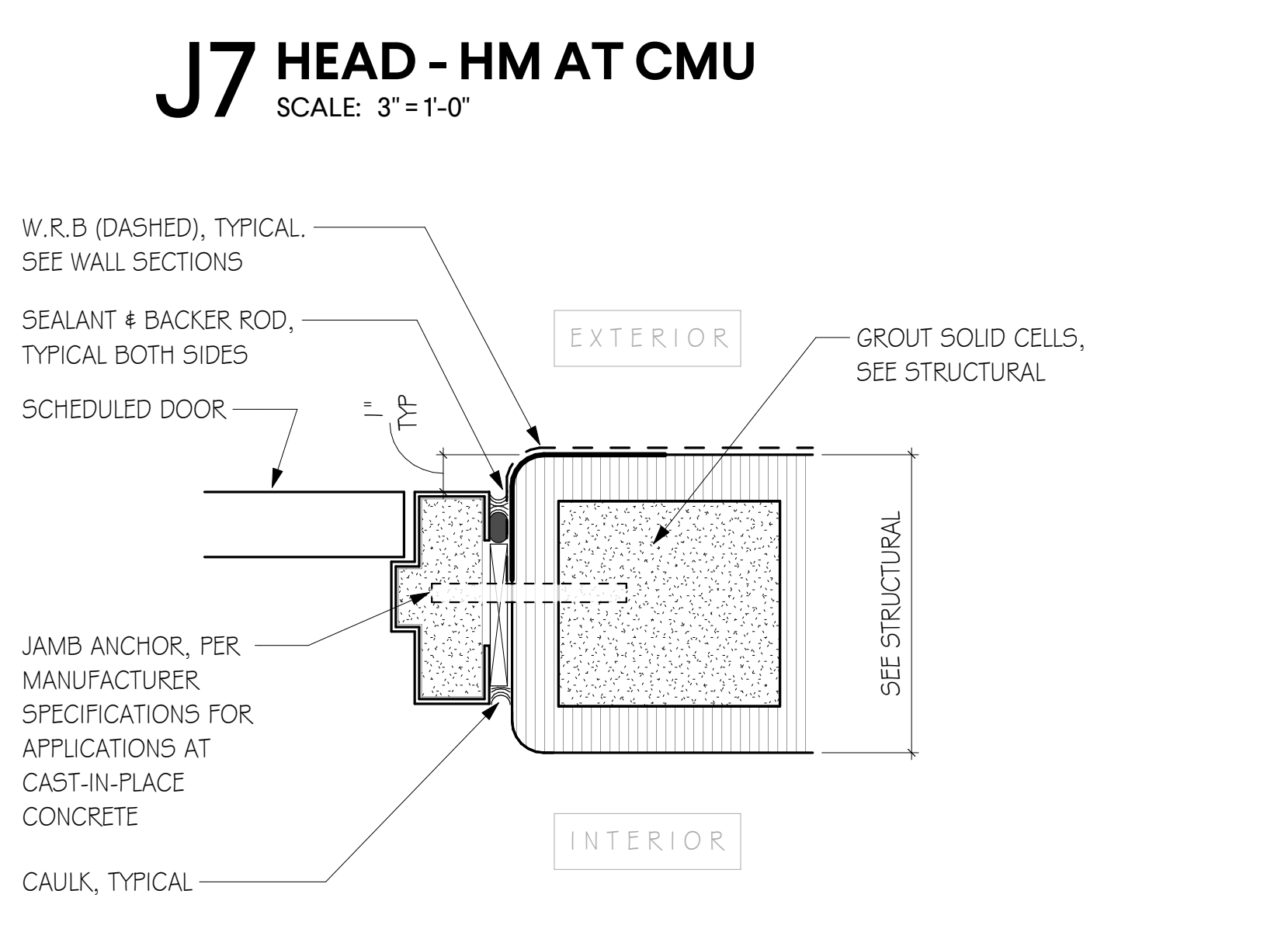
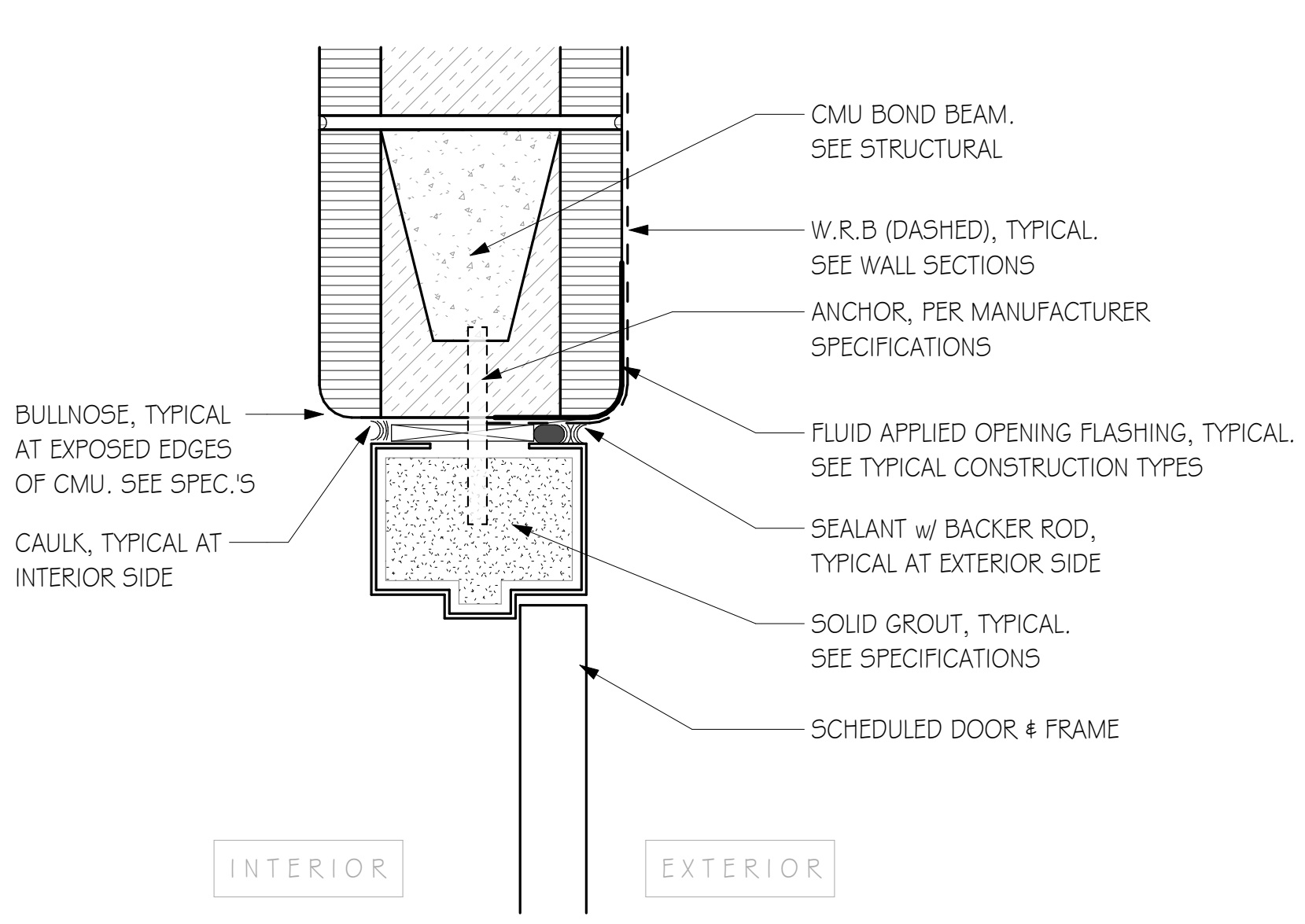
- 01 MAGNETIC HOLD-OPEN DEVICES
- 02 AUTOMATIC DOOR OPERATOR, SEE SPECIFICATION 08 71 00
- 03 AUTOMATIC ENTRANCE DOORS, SEE SPECIFICATIONS
- 04 ALUMINUM-FRAMED ENTRANCE DOORS, SEE SPECIFICATIONS
- 05 ALL-GLASS ENTRANCE DOORS, SEE SPECIFICATIONS
- 06 ALUMINUM-FRAMED ICUCU DOOR, SEE SPECIFICATIONS
- 07 SLIDING ICUCU DOOR, SEE SPECIFICATIONS
- 08 SLIDING EXAM ROOM DOOR, SEE SPECIFICATIONS
- 09 OVERHEAD COILING DOOR, SEE SPECIFICATIONS
- 10 OVERHEAD COILING GRILLE, SEE SPECIFICATIONS
- 11 LEAD-LINED DOOR AND FRAME, SEE SPECIFICATIONS 09 14 16 # 13 4900
- 12 RF DOOR TO BE PROVIDED COMPLETE WITH HARDWARE BY RF SHIELDING VENDOR
- 13 INTEGRAL BLINDS BETWEEN 2 PANES ULTRACLEAR GLASS (UPPER LITES ONLY)
- 14 PROVIDE OPAQUE FILM AT DOOR GLAZING
- 15 THERMAL RATED (INSULATED) ASSEMBLY
- 16 SOUND RATED DOOR ASSEMBLY, MATCH RATING OF PARTITION IN WHICH LOCATED
- 17 DOOR EDGE CONSTRUCTION: SEAMLESS
- 18 LEVEL 3 AND PHYSICAL PERFORMANCE LEVEL 4 (EXTRA HEAVY-DUTY)
- 19 EGRESS - EXIT ONLY DOOR
- 20 MECHANICAL KEYPAD LOCK, SEE SPECIFICATION 08 71 00
- 21 STORM SHELTER DOOR
- 22 PROVIDE SMOKE SEALS AND POSITIVE LATCHING
- 23 PROVIDE POSITIVE LATCHING 4 LOCKSET, SEE HARDWARE SCHEDULE FOR FUNCTION
- 24 PROVIDE OVERALL DOOR WIDTH AS REQD FOR CLEAR DOOR OPNG TO BE 3/4" MIN.
- 25 PROVIDE OVERALL DOOR WIDTH AS REQD FOR CLEAR DOOR OPNG TO BE 4/2" MIN.
- 26 PROVIDE OVERALL DOOR WIDTH AS REQD FOR CLEAR DOOR OPNG TO BE 4/4" MIN.
- 27 PROVIDE OVERALL DOOR WIDTH AS REQD FOR CLEAR DOOR OPNG TO BE 4/8" MIN.
- 28 PROVIDE OVERALL DOOR WIDTH AS REQD FOR CLEAR DOOR OPNG TO BE 6/0" MIN.
- 29 PROVIDE OVERALL DOOR WIDTH AS REQD FOR CLEAR DOOR OPNG TO BE 7/2" MIN.

**GMC**  
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 2400 6th Avenue South, Suite 200  
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ISSUE	DATE

**DOOR SCHEDULE, LEGEND, & NOTES**  
 FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION  
 20145TH STREET NE,  
 FORT PAYNE, AL 35967  
 DCM # 20240548  
 GMC\_AHLN230019

# A6.01





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**SECTION 01 2100  
ALLOWANCES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Cash allowances.
- B. Contingency allowance.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 2000 - Price and Payment Procedures: Additional payment and modification procedures.

**1.03 CASH ALLOWANCES**

**1.04 CONTINGENCY ALLOWANCE**

- A. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, overhead and profit will be included in Change Orders authorizing expenditure of funds from this Contingency Allowance.
- B. Funds will be drawn from the Contingency Allowance only by Change Order.
- C. At closeout of Contract, funds remaining in Contingency Allowance will be credited to Owner by Change Order.

**1.05 DESCRIPTION OF REQUIREMENTS:**

- A. Definitions and Explanations: Certain requirements of the work related to each allowance are shown and specified in contract documents. The allowance has been established in lieu of additional requirements for that work, and further requirements thereof (if any) will be issued by change order.
- B. Types of allowances scheduled herein for the work included the following:
  - 1. Unit cost allowances.
  - 2. Lump sum allowances.
- C. Selection and Purchase:
  - 1. At earliest feasible date after award of Contract, advise Architect/Engineer of scheduled date when final selection and purchase of each product or system described by each allowance must be accomplished in order to avoid delays in performance of the work.
  - 2. As requested by the Architect/Engineer, obtain and submit proposals for the work of each allowance for use in making final selections; include recommendations for selection which are relevant to the proper performance of the work.
  - 3. Purchase products and systems as specified, and as selected (in writing) by the Architect/Engineer.
  - 4. Submit proposals and recommendations, for purchase of products or systems of allowances, in form specified for change orders.
- D. Change Order Data: Include in each change order proposal both the quantities of products being purchased and unit costs, along with total amount of purchases to be made. Where requested, furnish survey-of-requirements data to substantiate quantities. Indicate applicable delivery charges, amounts of applicable trade discounts, and other relevant details as requested by the Architect.
  - 1. Each change order amount for allowances shall be based on the unit price difference between the actual purchase amount and the allowance, multiplied by the final measure or count of work-in-place, with reasonable allowances, where applicable, for cutting losses, tolerances, mixing wastes, normal product imperfections and similar margins.
  - 2. Include overhead and profit in the Contractor's Allowance.
  - 3. When requested, prepare explanations and documentation to substantiate the quantities, costs, and margins as claimed.

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- E. Change Order Mark-Up:
1. Except as otherwise indicated, comply with provisions of General Conditions. For each allowance, Contractor's claims for increased costs (for either purchase amount or Contractor's handling, labor, installation, overhead, and profit), because of a change in scope or nature of the allowance work as described in contract documents, must be submitted within 60 days of initial change order authorizing work to proceed on that allowance; otherwise, such claims will be rejected.
  2. Where it is not economically feasible to return unused material to the manufacturer/supplier for credit, prepare unused material for the Owner's storage, and deliver to the Owner's storage space as directed. Otherwise, disposal of excess material is the Contractor's responsibility.
- F. Time and Allowance Amounts:
1. Nothing in the Bid or Contract Documents shall be so construed or interpreted as to provide a Contract time extension, due to use or non-use of any Allowance amount.
  2. Nothing in the Bid or Contract Documents shall be so construed or interpreted as to allow unused Allowances or any portion thereof, nor any overhead and profit therefor to be retained by or paid to the Contractor.
    - a. Full amount of unused allowances shall be returned to the Owner.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION**

**3.01 SCHEDULE OF LUMP SUM ALLOWANCES:**

- A. **Allowance No. 01 - AID TO CONSTRUCT COST (Cash Allowance):**
1. Allow a lump sum price of ONE HUNDRED THOUSAND DOLLARS (\$100,000.00) for the Aid to Construct Cost for on-site utilities.
  2. Include overhead and profit in Base Bid and not part of Allowance.
- B. **Allowance No. 02 - OWNER CONTINGENCY (Contingency Allowance)**
1. Allow a lump sum price of SEVEN HUNDRED FIFTY THOUSAND DOLLARS (\$750,000.00) as an Owner Contingency Allowance.
  2. Include overhead and profit in Base Bid and not part of Allowance.
  3. Use of this contingency by approval o
- C. **Allowance No. 03 - EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (Cash Allowance)**
1. Allow a lump sum price of SIXTY FIVE THOUSAND DOLLARS (\$65,000.00) for work associated with the purchase and installation of an Emergency Responder Radio Coverage System if found to be required after testing of the facility.
  2. See Section 28 7800 - Emergency Radio Responder Coverage System for requirements. Costs associated with testing to identify if the system is required shall be included in the Base Bid, and NOT as part of Allowance.
  3. Include overhead and profit in Base Bid and not part of Allowance.
- D. **Allowance No. 04 - SIGNAGE (Cash Allowance):**
1. Allow a lump sum price of ONE HUNDRED THOUSAND DOLLARS (\$100,000) for the signage, including design, purchase, all taxes, delivery to job site, installation, and all related costs, in accordance with Section 10 1400 - "Signage". Selections and copy will be furnished by Architect after bidding.
  2. Installation and installation materials costs shall be included in Allowance, and not as a part of Base Bid.
  3. Include overhead and profit in Base Bid and not part of Allowance.
  4. Building plaques are to be included in Base Bid, and not as part of Allowance.

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E. **Allowance No. 05 - POWER AND DATA (Cash Allowance):**

1. Allow a lump sum price of TWENTY FIVE THOUSAND DOLLARS (\$25,000) for work associated with power and data items not currently outlined in the scope of work.
2. Installation and installation materials costs shall be included in Allowance, and not as a part of Base Bid.
3. Include overhead and profit in Base Bid and not part of Allowance.

F. **Allowance No. 06 – PERMANENT CORES AND KEYS:**

1. Allow a lump sum of TWELVE THOUSAND DOLLARS (\$12,000.00) for purchase of permanent keyed cores and keys, as directed by owner. Cores to be used in lock cylinder housings supplied under Division 08 - Section 087100 Door Hardware. Provide each core with one operating key. New key system for schools shall include: 5 master keys per master key group created, 2 permanent control keys, 5 grand master keys, 5 great grand master keys, and 100 blanks.
2. Include installation of permanent cores and installation material costs in Base Bid, and not as part of Allowance.
3. Include overhead and profit in Base Bid, and not as part of Allowance.

G. **Allowance No. 07- ADDITIONAL SECURITY CAMERAS AND ACCESS CONTROLS**

- H. 1. Allow a lump sum of TEN THOUSAND DOLLARS (\$10,000.00) for purchase of additional camera's and access controls and any related items for a complete system.

- I. 2. Include shipping, delivery, taxes, and installation as part of the the Allowance.

J. **Allowance No. 08 – ADDITIONAL WALL HUNG SCOREBOARDS:**

1. Allow a lump sum of TWENTY THOUSAND DOLLARS (\$20,000.00) for purchase of wall hung scoreboards.
2. Include installation of permanent cores and installation material costs in Base Bid, and not as part of Allowance.
3. Include overhead and profit in Base Bid, and not as part of Allowance.

K. **Allowance No. 09 – INTERIOR WALL GRAPHICS:**

1. Allow a lump sum of SEVENTY - FIVE THOUSAND DOLLARS (\$75,000.00) for purchase of and installation of interior wall graphics
2. Include installation of permanent cores and installation material costs in Base Bid, and not as part of Allowance.
3. Include overhead and profit in Base Bid, and not as part of Allowance.

L. **Allowance No. 10 – MASONRY VENEER :**

1. Allow an allowance of \$650/1000 units for exterior masonry including cast stone.
2. Allow for up to 3 different mortar colors at \$30.00/ bag.
3. Include installation of permanent cores and installation material costs in Base Bid, and not as part of Allowance.
4. Include overhead and profit in Base Bid, and not as part of Allowance.

M. **Allowance No. 11 – OWENER ENTERTAINMENT LIGHTING SYSTEM :**

1. Allow an allowance of FIFTY THOUSAND DOLLARS (\$50,000.00) for the design, purchase, and installation of an entertainment lighting system for the gymnasium.
2. Do not include overhead and profit in Base Bid.

N.

**3.02 SCHEDULE OF UNIT PRICE ALLOWANCES:**

A. **Allowance No. 12 - UNDERCUT AND BACKFILL IN BUILDING CONTROL AREA**



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1. In accordance with Section 01 2200 - Unit Prices and Section 31 2000 - Earth Moving, include an Allowance for the quantity identified. The Allowance value will be adjusted up or down based on the actual quantity of the Work.
  2. See Section 01 2200 - Unit Prices for costs to be included and procedures for payment of Unit Price work.
  3. Calculating Allowance No. 012:
    - a. Unit Price Item C: Undercut and Backfill in Building Control Area
    - b. Quantity of (225) Cubic Yards (CY)
    - c. Unit Price for each CY \$ \_\_\_\_\_.
    - d. Total Allowance No. 05 Value (b x c): \$ \_\_\_\_\_.
- B. Allowance No. 13 - UNDERCUT AND BACKFILL IN NON-BUILDING CONTROL AREA**
1. In accordance with Section 01 2200 - Unit Prices and Section 31 2000 - Earth Moving, include an Allowance for the quantity identified. The Allowance value will be adjusted up or down based on the actual quantity of the Work.
  2. See Section 01 2200 - Unit Prices for costs to be included and procedures for payment of Unit Price work.
  3. Calculating Allowance No. 13:
    - a. Unit Price Item D: Undercut and Backfill in Pavement Control Area
    - b. Quantity of (175) Cubic Yards (CY)
    - c. Unit Price for each CY \$ \_\_\_\_\_.
    - d. Total Allowance No. 06 Value (b x c): \$ \_\_\_\_\_.
- C. Allowance No. 14 - REMOVAL AND REPLACEMENT OF SIDWALKS**
1. See Section 01 2200 - Unit Prices for costs to be included and procedures for payment of Unit Price work.
  2. Calculating Allowance No. 14:
    - a. Unit Price Item D: Undercut and Backfill in Pavement Control Area
    - b. Quantity of (365) Square Yards (SY)
    - c. Unit Price for each CY \$ \_\_\_\_\_.
    - d. Total Allowance No. 06 Value (b x c): \$ \_\_\_\_\_.
- D. Allowance No. 15 - REMOVAL AND REPLACEMENT OF FULL DEPTH**
1. See Section 01 2200 - Unit Prices for costs to be included and procedures for payment of Unit Price work.
  2. Calculating Allowance No. 14:
    - a. Unit Price Item D: Undercut and Backfill in Pavement Control Area
    - b. Quantity of (125) Square Yards (SY)
    - c. Unit Price for each CY \$ \_\_\_\_\_.
    - d. Total Allowance No. 06 Value (b x c): \$ \_\_\_\_\_.

**END OF SECTION**

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**SECTION 09 6466**  
**WOOD ATHLETIC-FLOORING ASSEMBLIES**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. This Section includes:
1. New maple, strip flooring system on subfloor, and related work. Floating resilient wood athletic floor system
  2. New striping and graphics, as indicated on Drawings and herein.

**1.02 DESCRIPTION**

- A. Related work specified under other sections.
1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
  2. Concrete and Concrete Finishing - Section 03 3000.
    - a. Concrete Slab Depression: 1-3/4" using 25/32" flooring and subfloor for SB System.
    - b. Concrete Slab Depression: 1-3/4" using 7/16" Maple for Ultra Star System.
    - c. Surface Finish: steel troweled and finished smooth.
    - d. Concrete Tolerance: 1/8" in radius of 10'.
    - e. Floor Flatness and Floor Levelness (FF and FL) numbers are not recognized.
  3. Membrane Waterproofing and Dampproofing
    - a. Concrete subfloors on or below grade shall be adequately waterproofed beneath the slab and at the perimeter walls and on the earth side of below grade walls by general contractor using suitable type membrane.
    - b. Sand-Poly-Sand slab construction is not an acceptable construction.
  4. Thresholds - Section 08 7100.
  5. Game Standard Inserts - Section 11 6623.

**1.03 QUALITY ASSURANCE**

- A. Floor System Manufacturer Qualifications
1. Manufacturer shall be an established firm experienced in field and have been in business for a minimum of ten (10) years.
  2. Manufacturer shall be a member in good standing of the Maple Flooring Manufacturers Association (MFMA).
- B. Floor Contractor/Installer Qualifications and Certifications
1. Flooring contractor shall be a firm experienced in flooring field and approved by manufacturer.
  2. Submit a list of at least three completed projects of similar magnitude and complexity completed under current corporate identity.
- C. Surface Appearance
1. Expansion spaces will not exceed 1/64" at time of installation and will be spread evenly across the floor with each row of flooring.
  2. Expansion spacing will be installed to allow for normal expected increases in Equilibrium Wood Moisture Content (EMC).
- D. DIN Performance Testing
1. Passes all criteria of DIN 18032 part 2.

**1.04 SUBMITTALS**

- A. Manufacturer's Qualification Data
1. Submit a list of at least three completed projects of similar magnitude and complexity under current corporate identity.
- B. Manufacturer's Product Data
1. Submit three copies of manufacturer's product information, drawings, and specification sheets.

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2. Suppliers shall submit certificates attesting that materials furnished will meet specifications for grade, quality, dryness and treatment, if required.
  - C. Concrete Guidelines
    1. Submit three copies of MFMA Recommendations for correct preparation, finishing and testing of concrete subfloor surfaces to receive wood flooring.
    2. Submit manufacturer's "Concrete Guide Specification" for further information regarding conditions and requirements of concrete prior to installation.
  - D. Samples
    1. Submit one sample of flooring assembly. Sample to be made by the manufacturer and so indicated.
  - E. Maintenance Literature
    1. Submit copy of Maintenance Instructions.

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

- A. Delivery of Materials
  1. Materials shall not be delivered, stored or installed until all masonry, painting, plastering tilework, marble and terrazzo work is complete, and all overhead mechanical work, lighting, backstops, scoreboards are installed. Room temperature of 55-80 degrees Fahrenheit and relative humidity of 35-50% are to be maintained. In-Slab Relative Humidity shall be 85% or less using ASTM F2170 In-Slab Relative Humidity test. Ideal installation/storage conditions are the same as those that will prevail when building is occupied.
  2. Materials shall not be stored at the installation location if the In-Slab relative humidity level for the concrete slab is above 85% using ASTM F 2170 In-Slab Relative Humidity test.

#### **1.06 JOB CONDITIONS-SEQUENCY**

- A. Do not install floor system until concrete has cured 60 days and requirements in "Delivery of Materials" paragraph above are obtained.
- B. General Contractor is responsible to ensure slab is clean and free of all dirt and debris prior to floor installation beginning.
- C. Concrete slab shall be bead-blasted prior to installation of wood floor adhesive system to insure proper bond and eliminate foreign contaminants.
- D. Permanent heat, light and ventilation shall be installed and operating during and after installation. Maintain a temperature range of 55 to 80 degrees Fahrenheit (13 to 27 degrees Celsius) and a relative humidity range of 35 to 50%. Consult MFMA guidelines for further information.
- E. After floors are finished, area to be kept locked by general contractor to allow curing time for the finish. If after required curing time general contractor or owner requires use of area with specified flooring, he shall protect the floor by covering with non-fibered kraft paper or red rosin paper with taped joints, until acceptance by owner (or owner's agent) of complete gymnasium floor.

#### **1.07 GUARANTEE**

- A. Guarantee shall not cover damage caused in whole or in part by casualty, ordinary wear and tear, abuse, use for which material is not designed, faulty construction of the building, settlement of the building walls, failure of the other contractors to adhere to specifications, separation of the concrete slab and excessive dryness or excessive moisture from humidity, spillage, migration through the slab or wall, or any other source.
- B. Manufacturer hereby warrants the Product material to be free from manufacturing defects for a period of 1 year.
- C. This warranty is in lieu of all other warranties, expressed or implied including but not limited to any warranty of merchantability or fitness for a particular purpose, and of any other obligations on the part of manufacturer. In the event of breach of any warranty, the liability of the manufacturer shall be limited to repairing or replacing product and system components supplied by manufacturer and proven to be defective in manufacture, and shall not include any other damages, either direct or consequential.

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**PART 2 - PRODUCTS**

**2.01 MANUFACTURERS/PRODUCT**

- A. Robbins Sport Surfaces, Cincinnati, OH, 800-543-1913, [Basis of Design]: [www.robbinsfloor.com](http://www.robbinsfloor.com).

**2.02 MATERIALS (COMPETITION GYM B1105)**

- A. System: Bio-Channel SB System, or approved equal.
1. Acceptable Manufacturers provided they meet guidelines for wood dimension and adhesive composition:
    - a. Conner Sports Flooring; "Focus": [www.connorfloor.com](http://www.connorfloor.com).
    - b. Praters Flooring; : [www.pratersflooring.com](http://www.pratersflooring.com).
- B. Vapor Barrier
1. 6-mil polyethylene.
- C. Subfloor
1. Zero/G Lineal Strip shock pad.
  2. Bio-Channel SB Subfloor panels:
    - a. 25/32" factory engineered panels, on-site lamination shall not be permitted.
    - b. Pre-determined, factory routed locations to accept resilient Zero/G pad.
    - c. Pre-determined, factory routed locations to accept linear anchor channel.
  3. 16-gauge coated metal anchor channels.
- D. Maple Flooring
1. 25/32" thick x 2-1/4" wide, 2nd and Btr Grade, Random length, unfinished TGEM, KD Northern Hard Maple, as provided by Praters and graded in accordance with MFMA rules.
- E. Fasteners
1. Flooring - 1-3/4" cleats or staples.
  2. Subfloor Channel Anchors - Powers SPIKE® anchors.
- F. MFMA Flooring - Finger-Jointed Northern Hard Maple.
1. Grade 2 or better.
- G. Finishing Materials
1. By Praters or approved equal oil-modified polyurethane sealer and finish.
- H. Gamelines
1. Gameline paint(s) shall be recommended by the finishing materials manufacturer, and must be compatible with the finish.
- I. Perimeter Base - by Praters or equal, 3" x 4" ventilating type. (Color: As selected.)

### **2.03 ACCESSORIES**

- A. Accessory items recommended by manufacturer for complete system.

### **PART 3 - EXECUTION**

#### **3.01 INSPECTION**

- A. Inspect concrete slab for proper tolerance and dryness, and report any discrepancies to the general contractor and architect in writing. Slab will be level to within 1/8" in a 10' radius. Moisture content of the concrete slab shall not exceed manufacturer recommendations using ASTM F 2170 In-Slab Relative Humidity test.
- B. All work required to put the concrete subfloors in acceptable condition shall be the responsibility of the General Contractor.
- C. Subfloor shall be broom cleaned by General Contractor.
- D. Installer shall document all working conditions provided in General Specifications prior to commencement of installation.
- E. Area of floor shall be turned over to the Contractor free of all equipment and debris, and broom clean.

#### **3.02 INSTALLATION**

- A. Vapor Barrier
  - 1. Install polyethylene with joints lapped minimum 6" and turned up 4" at the walls.
- B. Subfloor
  - 1. Install manufacturer's resilient pads per manufacturer's recommendations.
  - 2. Place Bio-Channel SB subfloor panels diagonally to strip flooring, in an end-to-end manner, staggering end joints in adjacent rows. Allow a 1/4" gap between panels. Provide 1-1/2" to 2" expansion void at the perimeter and all vertical obstructions.
  - 3. Install solid stop blocking as needed.
- C. Anchoring
  - 1. Place anchor channel and anchor at each anchoring location. These anchor locations shall be perpendicular to the finished floor to allow for lateral movement. Anchors shall be driven tight to the concrete to insure proper placement. Anchors that need to be shimmed are not permitted.
- D. Maple Flooring
  - 1. Machine nail maple finish flooring per manufacturer's instructions. Provide spacing for humidity conditions in specific regions. Provide 2" expansion voids at perimeter and all vertical obstructions.

#### **3.03 FINISHING**

- A. Sanding
  - 1. Sand per manufacturer's recommendations.

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2. After sanding, buff entire floor with 100 grit screen or equivalent grit sandpaper, with a heavy-duty buffing machine.
  3. Inspect entire area of floor to insure the floor presents a smooth surface without drum stop marks, gouges, streaks or shiners.
  4. Vacuum and/or tack floor before first coat of seal.
  5. Floor should be clean and completely free of dirt and sanding dust.

**B. Finishing**

1. Gymnasium:
  - a. Apply specified combination of seal, gameline paint, and finish in accordance with manufacturer's instructions.
  - b. Buff and vacuum and/or tack between each coat after it dries.
  - c. Apply game lines accurately after the buffing and vacuuming the coated surfaces. Game lines shall be painted between seal coats and finish coats. Layout in accordance with drawings. For game lines, use current rules of association having jurisdiction. Lines shall be straight with sharp edges in colors selected by architect.
    - 1) Game lines shall consist of Basketball Court striping and Volleyball Court striping. (See drawings for layout of courts, and for logo.) Include the following, and as indicated:
      - (a) Main court basketball
      - (b) Main court volleyball
      - (c) Logos and Graphics
  - d. Apply finish coats per manufacturer's recommendations.

**3.04 WALL BASE INSTALLATION**

- A. Install manufacturer's vent cove base anchored to walls with base cement or screws and anchors. Use pre-molded outside corners and neatly mitered inside corner.

**3.05 CLEANING**

- A. Clean up all unused materials and debris and remove it from the premises.

**END OF SECTION**

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
1. Swinging doors.
  2. Sliding doors.
  3. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
1. Mechanical door hardware.
  2. Cylinders specified for doors in other sections.
- C. Related Sections:
1. Division 08 Section "Hollow Metal Doors and Frames".
  2. Division 08 Section "Aluminum-Framed Entrances and Storefronts".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
  2. ANSI/SDI A250.13 - Testing and Rating of Severe Windstorm Resistant Components for Swing Door Assemblies.
  3. ASTM E1886 - Test Method for Performance of Exterior Windows, Curtain Walls, Doors and Shutters Impacted by Missiles and Exposed to Cyclic Pressure Differentials.
  4. ASTM E330 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure difference.
  5. ASTM E1996 - Standard specification for performance of exterior windows, curtain walls, doors and storm shutters impacted by Windborne Debris in Hurricanes.
  6. FEMA P-361 2015/2021 - Design and Construction Guidance for Community Safe Rooms.
  7. ICC 500-2014/2020, ICC/NSSA Standard for the Design and Construction of Storm Shelters.
  8. ICC/IBC - International Building Code.
  9. NFPA 70 - National Electrical Code.
  10. NFPA 80 - Fire Doors and Windows.

11. NFPA 101 - Life Safety Code.
12. NFPA 105 - Installation of Smoke Door Assemblies.
13. TAS-201-94 - Impact Test Procedures.
14. TAS-202-94 - Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components using Uniform Static Air Pressure.
15. TAS-203-94 - Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.
16. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

### 1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
3. Content: Include the following information:
  - a. Type, style, function, size, label, hand, and finish of each door hardware item.
  - b. Manufacturer of each item.
  - c. Fastenings and other pertinent information.
  - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
  - e. Explanation of abbreviations, symbols, and codes contained in schedule.
  - f. Mounting locations for door hardware.
  - g. Door and frame sizes and materials.
  - h. Warranty information for each product.



4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Proof of Qualification: Provide copy of manufacturer(s) Factory Trained Installer documentation indicating proof of status as a qualified installer of tornado or hurricane storm shelter assemblies.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- E. Informational Submittals:
  1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

#### 1.4 CLOSEOUT SUBMITTALS

- A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
  1. Maintenance manual must be provided for tornado/hurricane storm shelter impact protective systems.
- B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

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- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. Storm Shelter Impact Protective Assembly Installer Qualifications: Installers are to be factory trained for shop and field installation prior to project bid, and are responsible for commissioning, servicing, and warranting the installed equipment specified for the project. A pre-installation site inspection of the frame and floor conditions shall be conducted by the factory trained installer prior to any Storm Shelter Impact Protective assembly hardware applied to the opening.
- F. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
- G. Storm Shelter Openings: Provide complete door systems for hurricane or tornado resistant storm shelters and other areas of refuge complying and tested according to ICC 500 (2014/2020), ICC/NSSA Standard for the Design and Construction of Storm Shelters.
- H. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- I. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
1. Function of building, purpose of each area and degree of security required.
  2. Plans for existing and future key system expansion.
  3. Requirements for key control storage and software.
  4. Installation of permanent keys, cylinder cores and software.
  5. Address and requirements for delivery of keys.
- J. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.

2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

- K. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

#### 1.6 DELIVERY, STORAGE AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

#### 1.7 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

#### 1.8 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
  1. Structural failures including excessive deflection, cracking, or breakage.
  2. Faulty operation of the hardware.

3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

## 1.9 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.
- B. Storm Shelter Openings: Furnish a complete set of operational and maintenance instructions as needed for Owner's continued adjustment, maintenance, and repairs of door hardware as required by ICC 500 (2020), ICC/NSSA Standard for the Design and Construction of Storm Shelters.

## PART 2 - PRODUCTS

### 2.1 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
  1. Quantity: Provide the following hinge quantity:
    - a. Two Hinges: For doors with heights up to 60 inches.
    - b. Three Hinges: For doors with heights 61 to 90 inches.
    - c. Four Hinges: For doors with heights 91 to 120 inches.
    - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
  2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
    - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
    - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
  3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
    - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
    - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
  4. Hinge Options: Comply with the following:

- a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.
5. Manufacturers:
  - a. McKinney (MK) - TA/T4A Series, 5-knuckle.
- B. Hinges at Storm Shelter Assemblies: At a minimum, provide heavy weight hinges with stainless steel screws used in accordance with and specified as part of a Severe Storm Shelter Opening meeting ICC 500 and FEMA 361.
  1. Quantity: Provide the following hinge quantity:
    - a. Three Hinges: For shutters with heights 36 to 60 inches, and doors at height of 80 inches.
    - b. Four Hinges: For shutters with heights > 60 inches to 80 inches, and doors with heights greater than 84 inches.
  2. Quantity: Provide the following hinge quantity:
    - a. Three Hinges: For shutters with heights 36 to 60 inches, and doors at height of 80 inches.
    - b. Four Hinges: For shutters with heights > 60 inches to 80 inches, and doors with heights greater than 84 inches.
    - c. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
    - d. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
    - e. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
  3. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
    - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
    - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
  4. Hinge Weight and Base Material: At a minimum, provide heavy weight hinges with stainless steel screws used in accordance with and specified as part of a certified Storm Shelter Opening meeting ICC 500.
  5. Manufacturers:
    - a. McKinney (MK) - SP3386/SP3786.

## 2.2 CONTINUOUS HINGES

- A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:

- a. Pemko (PE).

B. Pin and Barrel Continuous Hinges: ANSI/BHMA A156.26 Grade 1-600 pin and barrel continuous hinges with minimum 14 gauge Type 304 stainless steel hinge leaves, concealed stainless pin, and twin self-lubricated nylon bearings at each knuckle separation. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:

- a. Markar Products; ASSA ABLOY Architectural Door Accessories (MR).  
b. Pemko (PE).

2. Manufacturers (Storm Shelter Assemblies):

- a. Markar Products; ASSA ABLOY Architectural Door Accessories (MR).  
b. No Substitution.

2.3 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
5. Manufacturers:
  - a. Rockwood (RO).

B. Coordinators: ANSI/BHMA A156.3 door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.

1. Manufacturers:

- a. Rockwood (RO).

C. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.

3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Pulls, where applicable, shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
6. Manufacturers:
  - a. Rockwood (RO).

#### 2.4 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
  1. Threaded mortise cylinders with rings and cams to suit hardware application.
  2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
  3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
  4. Tubular deadlocks and other auxiliary locks.
  5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
  6. Keyway: Match Facility Standard.
- C. Keying System: Each type of lock and cylinders to be factory keyed.
  1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
  2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
  3. Existing System: Field verify and key cylinders to match Owner's existing system.
- D. Key Quantity: Provide the following minimum number of keys:
  1. Change Keys per Cylinder: Two (2)
  2. Master Keys (per Master Key Level/Group): Five (5).
  3. Construction Keys (where required): Ten (10).
- E. Construction Keying: Provide construction master keyed cylinders.
- F. Key Registration List (Bitting List):
  1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.

2. Provide transcript list in writing or electronic file as directed by the Owner.

## 2.5 KEY CONTROL

- A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

1. Manufacturers:
  - a. Lund Equipment (LU).
  - b. MMF Industries (MM).
  - c. Telkee (TK).

## 2.6 MORTISE LOCKS AND LATCHING DEVICES

- A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:
  - a. ASSA ABLOY ACCENTRA, formerly known as Yale (YA) - 8800FL Series.
  - b. Corbin Russwin Hardware (RU) - ML2000 Series.
  - c. Sargent Manufacturing (SA) - 8200 Series.

## 2.7 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

- B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.



2.8 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
1. Exit devices shall have a five-year warranty.
  2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
  3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
  4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
  5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
  6. Flush End Caps: Provide flush end caps made of architectural metal in the same finish as the devices as in the Hardware Sets. Plastic end caps will not be acceptable.
  7. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
    - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
    - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
  8. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
  9. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
  10. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
  11. Rail Sizing: Provide exit device rails factory sized for proper door width application.
  12. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
  13. Hurricane and Storm Shelter Compliance: Devices to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or storm shelter products that have been independently third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.
1. Provide exit devices with functions and features as follows:

- a. Where required by code, provide knurling or abrasive coating on all levers leading to hazardous areas.
  - b. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.
  - c. Meets UL Certification Directory ZHLL.R21744 for products used in windstorm rated assemblies.
  - d. Five-year limited warranty for mechanical features.
2. Manufacturers:
- a. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series.
  - b. Sargent Manufacturing (SA) - 80 Series.
- C. Multi-Point Exit Devices (Storm Shelter Openings): Multi-point exit devices specifically engineered for out-swinging door applications on tornado or hurricane resistant storm shelter openings. Extra heavy duty steel component construction with each of the latching points automatically activated when the device is locked. The multi-point exit device is approved for usage as part of a complete ICC 500 (2014/2020) and FEMA P-361 (2015/2021) door, frame and hardware assembly.
1. Manufacturers:
- a. Corbin Russwin Hardware (RU) - FE5400S Series.
  - b. Sargent Manufacturing (SA) - FM8700 Series.

## 2.9 SURFACE DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
  2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
  3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
  4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
  5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
  6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
  7. Storm Shelter Compliance: Door closers to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate storm shelter products that have been independently third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.

- B. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.
1. Large body cast iron surface mounted door closers shall have a 30-year warranty.
  2. Manufacturers:
    - a. Corbin Russwin Hardware (RU) - DC8000 Series.
    - b. Norton Rixson (NO) - 9500 Series.
    - c. Sargent Manufacturing (SA) - 281 Series.
- C. Door Closers, Surface Mounted (Cam Action): ANSI/BHMA 156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, high efficiency door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be of the cam and roller design, one piece cast aluminum silicon alloy body with adjustable backcheck and independently controlled valves for closing sweep and latch speed.
1. Manufacturers:
    - a. Corbin Russwin (RU) - DC5000 Series.
    - b. Norton Rixson (NO) - 2800ST Series.
    - c. Sargent Manufacturing (SA) - 422 Series.

## 2.10 OVERHEAD CONCEALED DOOR CLOSERS

## 2.11 ARCHITECTURAL TRIM

### A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
  - a. Stainless Steel: 300 grade, .050-inch thick.

5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:
  - a. Rockwood (RO).

## 2.12 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
  1. Manufacturers:
    - a. Rockwood (RO).
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
  1. Manufacturers:
    - a. Norton Rixson (RF).
    - b. Rockwood (RO).
    - c. Sargent Manufacturing (SA).

## 2.13 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
  1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Hurricane and Storm Shelter Compliance: Devices to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or storm shelter products that have been independently third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.
- G. Manufacturers:
  1. Pemko (PE).

#### 2.14 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

#### 2.15 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

### 3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

### 3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
  - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
  - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
  - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
  - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
  - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

**3.4 FIELD QUALITY CONTROL**

- A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
- B. Maintenance manual must be provided for tornado/hurricane storm shelter impact protective systems.

**3.5 ADJUSTING**

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

**3.6 CLEANING AND PROTECTION**

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

**3.7 DEMONSTRATION**

- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

**3.8 DOOR HARDWARE SETS**

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
  - 1. Quantities listed are for each pair of doors, or for each single door.
  - 2. The supplier is responsible for handing and sizing all products.
  - 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

B. Manufacturer's Abbreviations:

1. MK - McKinney
2. PE - Pemko
3. MR - Markar
4. RO - Rockwood
5. RU - Corbin Russwin
6. RF - Rixson
7. OT - Other

**Hardware Sets**

**Set: 1.1**

Doors: 208A, 208B, 208D, 216, 217

Description: EXTERIOR ALUMINUM NIGHTLATCH EXIT PAIR w/ STOP ARM CLOSER

2 Continuous Hinge	CFM_SLF-HD1 x Length Required		PE
1 Mullion	CR808 x Length Required	628	RU
1 Rim Exit Device, Nightlatch	ED4200 K157ET M110 M52	630	RU
1 Exit Device (rim, exit only)	ED4200 EO M110 M52	630	RU
3 Cylinder/ Core	as required	630	RU
2 Pull	RM202 Mtg-Type 12XHD	US32D-316	RO
2 Surface Closer (heavy duty unitrol)	DC8210 A11	689	RU
2 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	by aluminum door/ frame manufacturer		OT
2 Sweep	345CNB x Length Required		PE
1 Threshold	171A x Length Required x MSES25SS		PE

Notes: -Balance of hardware by storefront supplier

-Coordinate all hardware with the aluminum storefront manufacturer/supplier.

-Provide necessary drop plates and fillers for proper installation of door closers.

-Provide blocking/spacer rings in thickness as required to fill gap, if any, between cylinder head and face of door.

-Verify finish of hardware.

Hardware listed for design criteria, confirm with the specific fire rated aluminum storefront door manufacturer the hardware requirements to meet specified fire rating.



**Set: 1.2**

Doors: 208E, 208F, 208G

Description: ALUMINUM NIGHTLATCH EXIT PAIR w/ STOP ARM CLOSER

2 Continuous Hinge	CFM_SLF-HD1 x Length Required		PE
1 Concealed Vert Rod Exit, Nightlatch	ED4800 K157ET M110 M52	630	RU
1 Concealed Vert Rod Exit, Exit Only	ED4800 EO M110 M52	630	RU
3 Cylinder/ Core	as required	630	RU
2 Pull	RM202 Mtg-Type 12XHD	US32D-316	RO
2 Surface Closer (heavy duty unitrol)	DC8210 A11	689	RU
2 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	by aluminum door/ frame manufacturer		OT
2 Sweep	345CNB x Length Required		PE

Notes: -Balance of hardware by storefront supplier

-Coordinate all hardware with the aluminum storefront manufacturer/supplier.

-Provide necessary drop plates and fillers for proper installation of door closers.

-Provide blocking/spacer rings in thickness as required to fill gap, if any, between cylinder head and face of door.

-Verify finish of hardware.

Hardware listed for design criteria, confirm with the specific fire rated aluminum storefront door manufacturer the hardware requirements to meet specified fire rating.

**Set: 2.0**

Doors: 201

Description: (RATED) EXTERIOR NIGHTLATCH EXIT PAIR w/ STOP ARM CLOSER

2 Continuous Hinge	CFM_HD1 x Length Required		PE
1 Removable Mullion	910KM x Length Required x M57		RU
1 Fire Rated Rim Exit, Exit Only	ED5200A EO M110	630	RU
1 Fire Rated Rim Exit, Nightlatch	ED5200A K157ET M110	630	RU
2 Cylinder/ Core	as required	630	RU
1 Pull	RM202 Mtg-Type 12XHD	US32D-316	RO
2 Surface Closer (heavy duty unitrol)	DC8210 A11	689	RU

2 Kick Plate	K1050 10" high BEV CSK	US32D	RO
2 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	303AS (Head & Jambs)		PE
1 Mullion Gasketing	5110BL x Length Required		PE
1 Rain Guard	346C x Width of Header		PE
2 Sweep	345CNB x Length Required		PE
1 Threshold	171A x Length Required x MSES25SS		PE

**Set: 3.1**

Doors: 124

Description: (RATED) EXTERIOR NIGHTLATCH EXIT

1 Continuous Hinge	CFM_HD1 x Length Required		PE
1 Fire Rated Rim Exit, Nightlatch	ED5200A K157ET M110	630	RU
1 Cylinder/ Core	as required	630	RU
1 Pull	RM202 Mtg-Type 12XHD	US32D- 316	RO
1 Surface Closer (heavy duty unitrol)	DC8210 A11	689	RU
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO
1 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	303AS (Head & Jambs)		PE
1 Rain Guard	346C x Width of Header		PE
1 Sweep	345CNB x Length Required		PE
1 Threshold	171A x Length Required x MSES25SS		PE

**Set: 3.2**

Doors: 100, 108

Description: EXTERIOR NIGHTLATCH EXIT

1 Continuous Hinge	CFM_HD1 x Length Required		PE
1 Rim Exit Device, Nightlatch	ED5200 K157ET M110 M52	630	RU
2 Cylinder/ Core	as required	630	RU
1 Pull	RM202 Mtg-Type 12XHD	US32D- 316	RO
1 Surface Closer (heavy duty unitrol)	DC8210 A11	689	RU
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO
1 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	303AS (Head & Jambs)		PE
1 Rain Guard	346C x Width of Header		PE

1 Sweep	345CNB x Length Required		PE
1 Threshold	171A x Length Required x MSES25SS		PE

**Set: 4.0**

Doors: [123](#)

Description: EXTERIOR STOREROOM w/ STOP ARM CLOSER

1 Continuous Hinge	CFM_HD1 x Length Required		PE
1 Storeroom Lock w/ Deadbolt	ML2049 NSA	630	RU
1 Cylinder/ Core	as required	630	RU
1 Surface Closer (heavy duty unitrol)	DC8210 A11	689	RU
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO
1 Gasketing	303AS (Head & Jambs)		PE
1 Rain Guard	346C x Width of Header		PE
1 Sweep	345CNB x Length Required		PE
1 Threshold	171A x Length Required x MSES25SS		PE
1 Latch Protector	320-RKW	US32D	RO

**Set: 5.0**

Doors: [203](#), [204](#)

Description: (RATED) CLASSROOM EXIT

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Fire Rated Rim Exit, Classroom	ED5200A N955ET M110	630	RU
1 Cylinder/ Core	as required	630	RU
1 Surface Closer	DC8200 A3/A10 (Re/PA) where applicable	689	RU
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO
1 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	S773D (Head and Jambs)		PE

**Set: 6.0**

Doors: [109](#), [115](#), [209](#), [213](#), [301](#), [306](#)

Description: (RATED) PASSAGE EXIT

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Fire Rated Rim Exit, Passage	ED5200A N910ET M110	630	RU
1 Surface Closer	DC5200	689	RU

1 Kick Plate	K1050 10" high BEV CSK	US32D	RO
1 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	S773D (Head and Jambs)		PE

**Set: 7.0**

Doors: 106

Description: (RATED) STOREROOM EXIT PAIR w/ CLOSER, KNUURLING

6 Hinge, Full Mortise	TA2714	US26D	MK
1 Fire Rated Conc Vert Rod, Storeroom	ED5800A N959ET M55 M110 M21	630	RU
1 Fire Rated Conc Vert Rod, Exit Only	ED5800A EO M55 M110	630	RU
1 Cylinder/ Core	as required	630	RU
2 Surface Closer (heavy duty unitrol)	DC8210 A11	689	RU
2 Kick Plate	K1050 10" high BEV CSK	US32D	RO
2 Door Stop	403 / 441H to suit condition	US26D	RO
2 Astragal	18061CNB		PE
1 Gasketing	S773D (Head and Jambs)		PE

**Set: 8.0**

Doors: 116, 122

Description: STOREROOM PAIR w/ STOP ARM CLOSER

6 Hinge, Full Mortise	TA2714	US26D	MK
1 Dust Proof Strike	570	US26D	RO
1 Flush Bolt	2842 / 2962 (As Required)	US32D	RO
1 Storeroom Lock	ML2057 NSA	630	RU
1 Cylinder/ Core	as required	630	RU
1 Coordinator	1700	Black	RO
2 Surface Closer (heavy duty unitrol)	DC8210 A11	689	RU
2 Kick Plate	K1050 10" high BEV CSK	US32D	RO
2 Astragal	18061CNB		PE
1 Gasketing	S773D (Head and Jambs)		PE

**Set: 9.0**

Doors: 125, 126, 127, 206, 207, 214, 218

Description: STOREROOM w/ CLOSER

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Storeroom Lock	ML2057 NSA	630	RU

1 Cylinder/ Core	as required	630	RU
1 Surface Closer	DC8200 A3/A10 (Re/PA) where applicable	689	RU
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO
1 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	S773D (Head and Jamb)		PE

**Set: 10.0**

Doors: 107, 205

Description: STOREROOM w/ CLOSER, KNUURLING

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Storeroom Lock	ML2057 NSA M21	630	RU
1 Cylinder/ Core	as required	630	RU
1 Surface Closer	DC8200 A3/A10 (Re/PA) where applicable	689	RU
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO
1 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	S773D (Head and Jamb)		PE

**Set: 11.0**

Doors: 117

Description: STOREROOM w/ STOP ARM CLOSER

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Storeroom Lock	ML2057 NSA	630	RU
1 Cylinder/ Core	as required	630	RU
1 Surface Closer (heavy duty unitrol)	DC8210 A11	689	RU
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO
1 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	S773D (Head and Jamb)		PE

**Set: 12.0**

Doors: 101, 105, 118, 210, 215

Description: OFFICE w/ CLOSER

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Entrance Lock	ML2054 NSA	630	RU
1 Cylinder/ Core	as required	630	RU
1 Surface Closer	DC8200 A3/A10 (Re/PA) where	689	RU

	applicable		
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO
1 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	S773D (Head and Jambs)		PE
1 Coat Hook	RM802	US26D	RO

**Set: 13.0**

Doors: 102, 103, 104, 110, 111, 112, 114B, 119, 120, 121, 200, 202, 300, 305

Description: CLASSROOM INTRUDER w/ CLOSER

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Classroom Intruder Lock	ML2002 NSA	630	RU
2 Cylinder/ Core	as required	630	RU
1 Surface Closer	DC8200 A3/A10 (Re/PA) where applicable	689	RU
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO
1 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	S773D (Head and Jambs)		PE

**Set: 14.0**

Doors: 304

Description: CLASSROOM INTRUDER w/ CLOSER, OHS

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Classroom Intruder Lock	ML2002 NSA	630	RU
2 Cylinder/ Core	as required	630	RU
1 Conc Overhead Stop	2-X36	689	RF
1 Surface Closer	DC8200 A10	689	RU
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO
1 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	S773D (Head and Jambs)		PE

**Set: 15.0**

Description: NOT USED | CLASSROOM INTRUDER

**Set: 16.0**

Doors: 113

Description: (RATED) CLASSROOM EXIT PAIR w/ CLOSER

2 Continuous Hinge	CFM_HD1 x Length Required		PE
1 Fire Rated Conc Vert Rod, Classroom	ED5800A N955ET M55 M110	630	RU
1 Fire Rated Conc Vert Rod, Exit Only	ED5800A EO M55 M110	630	RU
1 Cylinder/ Core	as required	630	RU
2 Surface Closer	DC8200 A3/A10 (Re/PA) where applicable	689	RU
2 Kick Plate	K1050 10" high BEV CSK	US32D	RO
2 Mop Plate	K1050 4" high BEV CSK	US32D	RO
2 Door Stop	403 / 441H to suit condition	US26D	RO
2 Astragal	18061CNB		PE
1 Gasketing	S773D (Head and Jamb)		PE

**Set: 17.0**

Doors: 105A, 118B, 212, 218C

Description: PRIVACY w/ CLOSER

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Privacy Lock	ML2030 NSA M19VN	630	RU
1 Surface Closer	DC8200 A3/A10 (Re/PA) where applicable	689	RU
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO
1 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	S773D (Head and Jamb)		PE
1 Coat Hook	RM802	US26D	RO

**Set: 18.0**

Doors: 111B, 114C, 219

Description: PASSAGE w/ CLOSER

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Passage Latch	ML2010 NSA	630	RU
1 Surface Closer	DC8200 A3/A10 (Re/PA) where applicable	689	RU
1 Door Stop	403 / 441H to suit condition	US26D	RO
1 Gasketing	S773D (Head and Jamb)		PE

**Set: 19.0**

Doors: 111E, 112A, 124A, 210A

Description: OVERHEAD

1 Cylinder/ Core	as required	630	RU
1 Hardware	balance of hardware by door manufacturer		OT

**Set: 20.0**

Doors: 114

Description: FEMA | (RATED) CLASSROOM EXIT

1 Continuous Hinge	HG305 x Door Height	630	MR
1 Multi-Point Exit Device	FE5400SA N955	630	RU
1 Cylinder/ Core	as required	630	RU
1 Surface Closer	DC8210 A3 M54	689	RU
1 Latch Cover Kick Plate	BFLG1050 10" x 2" LDW	US32D	RO
1 Gasketing	S773D (Head & Jambs)		PE
1 Threshold	1715A x Opening Width		PE

Notes: Cutout threshold so bottom strike can be mounted directly to the concrete floor and not on the threshold.

Door will come with 5/8" undercut.

END OF SECTION 087100





*Do not staple this form and/or attachments; use clips.*

# GENERAL CONTRACTOR'S ROOFING GUARANTEE

DCM (BC) Project No. _____
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Project Name & Address	Project Owner Entity(ies) Name(s) & Address(es)
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General Contractor's Company Name, Address, & Telephone Number	<b>EFFECTIVE DATES OF GUARANTEE</b>
	Date of Acceptance:
	Date of Expiration:

1. The General Contractor does hereby certify that the roofing work included in this contract was installed in strict accordance with all requirements of the plans and specifications and in accordance with approved roofing manufacturers recommendations.
2. The General Contractor does hereby guarantee the roofing and associated work including but not limited to all flashing and counter flashing both composition and metal, roof decking and/or sheathing; all materials used as a roof substrate or insulation over which roof is applied; promenade decks or any other work on the surface of the roof; metal work; gravel stops and roof expansion joints to be absolutely watertight and free from all leaks, due to faulty or defective materials and workmanship for a period of five (5) years, starting on the date of substantial completion of the project. This guarantee does not include liability for damage to interior contents of building due to roof leaks, nor does it extend to any deficiency which was caused by the failure of work which the general contractor did not damage or did not accomplish or was not charged to accomplish.
3. Subject to the terms and conditions listed below, the General Contractor also guarantees that during the Guarantee Period he will, at his own cost and expense, make or cause to be made such repairs to, or replacements of said work, in accordance with the roofing manufacturers standards as are necessary to correct faulty and defective work and/or materials which may develop in the work including, but not limited to: blisters, delamination, exposed felts, ridges, wrinkles, splits, warped insulation and/or loose flashings, etc. in a manner pursuant to the total anticipated life of the roofing system and the best standards applicable to the particular roof type in value and in accordance with construction documents as are necessary to maintain said work in satisfactory condition, and further, to respond on or within three (3) calendar days upon proper notification or leaks or defects by the Owner or Architect.

- A. Specifically excluded from this Guarantee are damages to the work, other parts of the building and building contents caused by: (1) lightning, windstorm, hailstorm and other unusual phenomena of the elements; and (2) fire. When the work has been damaged by any of the foregoing causes, the Guarantee shall be null and void until such damage has been repaired by the General Contractor, and until the cost and expense thereof has been paid by the Owner or by the responsible party so designated.
- B. During the Guarantee Period, if the Owner allows alteration of the work by anyone other than the General Contractor, including cutting, patching and maintenance in connection with penetrations, and positioning of anything on the roof, this Guarantee shall become null and void upon the date of said alterations. If the owner engages the General Contractor to perform said alterations, the Guarantee shall not become null and void, unless the General Contractor, prior to proceeding with the said work, shall have notified the Owner in writing, showing reasonable cause for claim that said alterations would likely damage or deteriorate the work, thereby reasonably justifying a termination of this Guarantee.
- C. Future building additions will not void this guarantee, except for that portion of the future addition that might affect the work under this contract at the point of connection of the roof areas, and any damage caused by such addition. If this contract is for roofing of an addition to an existing building, then this guarantee covers the work involved at the point of connection with the existing roof.
- D. During the Guarantee period, if the original use of the roof is changed and it becomes used for, but was not originally specified for, a promenade, work deck, spray cooled surface, flooded basin, or other use of service more severe than originally specified, this Guarantee shall become null and void upon the date of said change.
- E. The Owner shall promptly notify the General Contractor of observed, known or suspected leaks, defects or deterioration, and shall afford reasonable opportunity for the General Contractor to inspect the work, and to examine the evidence of such leaks, defects or deterioration.

IN WITNESS THEREOF, this instrument has been duly executed this \_\_\_\_\_ day  
of \_\_\_\_\_, \_\_\_\_\_.

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General Contractor's Authorized Signature

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Typed Name and Title

RFI LOG

Fort Payne High School Competition Gym and Classroom Addition		GMC RFI Log				
NO.	REC'D	QUESTION	RESP. Date	RESPONSE	ADD.	WHO
1	11/25/2024	Can you clarify flooring specifications for resilient and wood floors		See the attached flooring spec section	1	
2	11/25/2024	Can the bid date be pushed until after the holidays	12/6/2024	Only if the DCM Final Review / Approval has not been granted		
3	11/25/2024	Provide finish hardware spec		See specifications section added	1	
4	11/25/2024	Provide first page of section 0 3360		See specifications it is in there		
5	11/25/2024	Provide bleacher specification		Bleachers and seating is direct by Owner. Not in the bid.		
6	12/3/2024	Does this project require BIM coordination	12/6/2024	No		
7	12/3/2024	Can the REVIT model be shared	12/6/2024	No		
8	12/3/2024	Can CAD files be provided	12/6/2024	Yes see CAD release and fee sheet in addendum	1	
9	12/3/2024	Will the GC be required to use/pay for E-Builder Service	12/6/2024	No, E-Builder will not be utilized on this project		
10	12/3/2024	Page 2 of the Allowance Section is missing	12/6/2024	See revised allowance section attached in Addendum 1	1	
11	12/3/2024	Please provide Unit Price Cost Sheet for the Allowances Section	12/6/2024	See attached in Addendum 1	1	
12	12/3/2024	Provide per/bag allowance for colored mortar	12/6/2024	See revised section in Addendum 1	1	
13	12/4/2024	Who is responsible for Utility Connection Fees/Aid to Construct Fees?	12/6/2024	See Allowance 1 in Section 01 2100		
14	12/4/2024	Civil dwgs show FFE 974.50 & Arch shows FFE @ 971.17 , Please advise				
15	12/4/2024	Please clarify slab thicknesses out side the court area? 6" under seating?	12/6/2024	6" slab under all geofoam at CMU and conc. walls including bleachers and exterior stairs. See detail 12/S3.01 for slab transition. See attached dwg in Addendum 1 depicting area for 6" slab. Note 8" slab at storage system area per note on S2.00	1	
16	12/4/2024	Please provide mud slab detail at gym floor slab on grade	12/6/2024	See revised detail sheet in Addendum 1		
17	12/4/2024	Please provide detail for retaining wall on sheet C2.01	12/6/24	See revised detail sheet in Addendum 1		
18	12/5/2024	Please clarify where colored stained concrete is in the project	12/6/2024	References to stained concrete do not apply to this project		
19	11/26/2024	Should exterior glazing be 1" and interior glazing be 1/4"	12/6/2024	Yes		
20	11/26/2024	Are storefront elevations SF-6 & 7 to be 1hr rated systems	12/6/2024	All the doors in the structural 1 hr rated walls are required to be 45 min. Any glazing in these openings shall be required to match that rating.		
21	11/26/2024	Where are spandrel glass IG-1 & 2 located	12/6/2024	There is no spandrel glass in the scope		
22	11/26/2024	Do storefront doors 208 A thru G require rated glazing 1" or 1/4"	12/6/2024	No ratings. These are typical heavy duty storefront doors w/ 1" glazing units		
23	11/26/2024	Does the trophy case require cable suspended shelving	12/6/2026	Yes, per details		
24	11/26/2024	Is 3" roof deck shown on S2.03 to be acoustical deck				
25	11/26/2024	Spec Sections reference intergrated A/V systems in TOC are missing	12/6/2024	This is a typo in the table of contents and does not apply to this project		
26	11/26/2024	Does the project have auger cast piles	12/6/2024	No, this is typo in the table of contents		
27	11/26/2024	Does any of the glazing receive film	12/6/2026	No this is a typo in the spec and will be removed		
28	11/27/2024	Please provide detail for hollow core penetration		See addendum # 1	1	
29	11/27/2024	Are their additional specifications for the center hung scoreboard	12/6/2021	See cut sheet provided in Addendum 1	1	
30	11/27/2024	Are their additional specifications for the cosmotology equipment				
31	11/27/2024	Is it accepted to core drill into concrete walls for toilets and vents				
32	11/27/2024	Verify mounting location of clieling mount bball goals				
33	11/27/2024	Clarify spec & or allowances for signage, cubicle curtains and roller shades		Signage Allowance is in the spec manual. No curtains in the project		
34	11/25/2024	Is Alabam Disclosure Statement required	12/6/2024	Yes to be in bid envelope		
35	12/2/2024	Provide dimensions on seating risers	12/6/2024	See revised dwg attached to Addendum 1	1	
36	12/2/2024	Who is responsible for relocating monument sign	12/6/2024	The General Contractor		
37	12/2/2024	Clarify allowance for signage	12/6/2024	Signage Allowance is in the spec manual. Wall graphics allowance is also in the spec manual.		
38	12/3/2024	Provide PSI for topping slab	12/6/2024	See Note 4.2 on S1.00 Unless noted use 4000PSI. Hollow core mfr. can use up to 2" of conc. topping slab for composite action and will specify a conc. strength required. The strenght specified by the mfr. shall control unless otherwise noted.		
39	12/3/2024	Clarify finished floor elevations	12/6/2024			
40	12/3/2024	Are the planter walls to be concrete or CMU	12/6/2024	Concrete. Go with S-sheet details.		
41	12/5/2024	Is the instructors chair in the scope , if so provide spec	12/6/2024	Not in scope	1	
42	12/5/2024	Clarify the void space next to weight room on sheet A6/5.11	12/6/2024			
43	12/5/2024	Clarify coordination between details 9/S3.04 & E8/A5.21	12/6/2024		1	
44	12/5/2024	Clarify location of perforated black soffit in detail E8/A5.21	12/6/2024	On the bottom of the air space and conc. beam to cover the gap		
45	12/5/2024	Are any of the roll up doors fire rated and / or counter roll up doors	12/6/2024	Roll up doors are not rated. Concessions doors shall be counter	1	
46	12/5/2024	Can utilities be ran under the footings to avoid step footings	12/6/2024	All utilities are to extend above footings per dwgs. SDG		
47	12/5/2024	Is there a limited action elevator in the project	12/6/2024	No		
48	12/6/2024	Is there an irrigation system planned for the project	12/6/2024	No		
49	12/6/2024	Should there be TPO and metal deck on pre-fab canopy	12/6/2024	No, this will utlitmately be designed by the mfr w/ shop dwgs.		
50	12/6/2024	Who is purchasing and installing the refrigerator and microwave	12/6/2024	Owner Furnished Contractor Installed		
51	12/6/2024	Clarify thickness of phenolic lockers and location of shelf				