

# KBM INC.

## Relocatable Modular Buildings

### GENERAL NOTES

BUILDING PLANS HAVE BEEN DESIGNED TO MEET  
DESIGN CODE: 2018 INTERNATIONAL BUILDING CODE

BUILDING CATEGORY: I  
BUILDING USE GROUP: S-1

DESIGN LOADING DATA:  
DEAD LOAD: 2.5 psf  
ROOF LIVE LOAD: 20 psf, REDUCTION ALLOWED  
COLLATERAL LOAD: 1 psf  
GROUND SNOW LOAD, Pg: 20 psf  
DESIGN ROOF SNOW LOAD, Pf: 15.0 psf  
SNOW EXPOSURE FACTOR: 1.00  
SNOW IMPORTANCE FACTOR: 1.10

WIND SPEED: 120 M.P.H.  
WIND IMPORTANCE FACTOR, Iw: .87  
WIND EXPOSURE CATEGORY: C  
INTERNAL PRESSURE COEFFICIENT, GCpi: +0.18

NO ELECTRIC OR PLUMBING WILL BE PROVIDED  
TO MODULAR STORAGE UNITS

MAXIMUM STUD SPACING  
60" O.C. @ SIDEWALLS  
120" O.C. @ ENDWALLS

ASD CAPACITY  
WIND = 165 (PLF)  
SEISMIC = 156 (PLF)

WOOD FLOORING  
TO BE INSTALLED IN COMPLIANCE TO IBC 2018  
CHAPTER 23, SECTION 2304

WALL SHEETING  
1 1/4" X 26 GA. PANEL WITH RIB SPACING @ 12" O.C.

MINIMUM STUD,SUPPORT, AND TRACK THICKNESS : 18 GA.

REFER TO DETAIL SHEET D1 FOR CONNECTIONS

### Cold-Formed Metal Framing

Design, fabrication and erection shall conform to AISI "Cold-Formed Steel Design Manual", latest edition (or addenda).

All 12, 14, or 16 gage members shall be formed from steel that corresponds to the minimum requirements of ASTM A570 Grade 55 or ASTM A653 Grade 50 with a minimum yield strength of 57,000 psi.

Unless noted otherwise, all 18, 20, 22 or 25 gage studs and joists shall be formed from steel that corresponds to the minimum requirements of ASTM A653, SQ Grade 33 with a minimum yield strength of 33,000 psi, or ASTM A570 Grade 33 (or higher) with a minimum yield strength of 33,000 psi.

All light gage track, bridging, angle and other miscellaneous shapes and accessories shall be formed from steel that corresponds to the minimum requirements of ASTM A653, SQ Grade 33 with a minimum yield strength of 33,000 psi, or ASTM A570 Grade 33 (or higher) with a minimum yield strength of 33,000 psi.

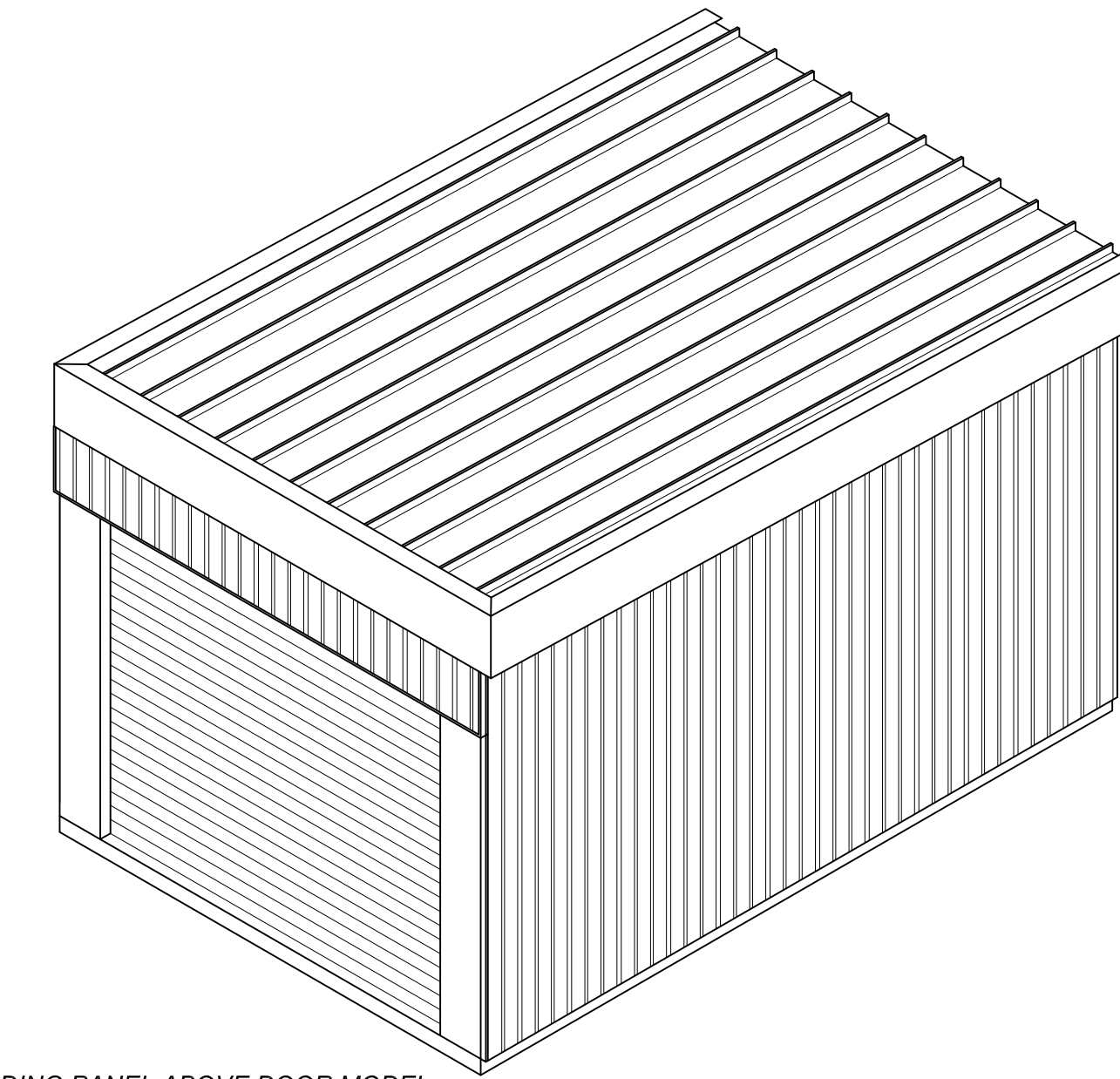
All galvanized studs, joist, track, bridging, angle and other miscellaneous shapes and accessories shall be formed from steel having a G-60 galvanized coating meeting the requirements of ASTM A525. Non-galvanized members shall have a shop applied primer coat.

### DRAWING SHEET INDEX

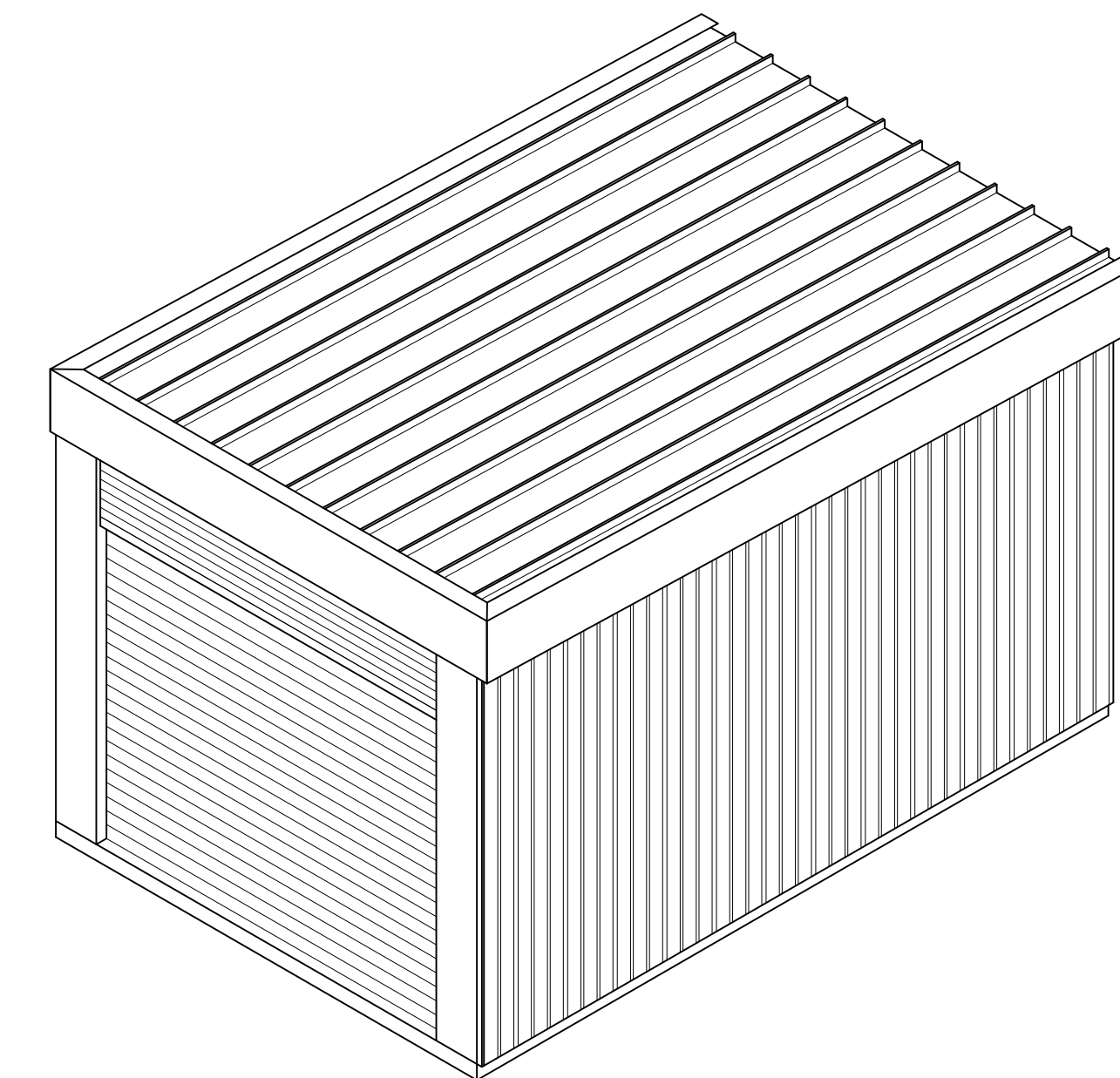
S1	GENERAL NOTES SHEET
S2	10'-0" WIDE X 10'-0" DEEP BUILDING LAYOUT PLANS
S3	10'-0" WIDE X 10'-0" FRAMING ELEVATIONS
S4	10'-0" WIDE X 10'-0" EXTERIOR ELEVATIONS
S5	10'-0" WIDE X 15'-0" DEEP BUILDING LAYOUT PLANS
S6	10'-0" WIDE X 15'-0" SECTION & ELEVATIONS
S7	10'-0" WIDE X 20'-0" DEEP BUILDING LAYOUT PLANS
S8	10'-0" WIDE X 20'-0" SECTION & ELEVATIONS
D1	BUILDING DETAILS
D2	FAB DETAILS

### RELOCATABLE MODULAR BUILDING DESIGN SET

SITE ORDER: 80 @10'-0" X 20'-0" BUILDINGS  
20 @10'-0" X 25'-0" BUILDINGS



SIDING PANEL ABOVE DOOR MODEL



DOOR FILLER PANEL MODEL

#### SITE PREPARATION:

SITE SHOULD BE LEVEL

THE FOLLOWING ARE SITE RECOMMENDATIONS, DECISION IS UP TO U-HAUL

CONCRETE SLAB  
ASPHALT  
COMPACTED ROAD BASE MATERIAL

THE FOLLOWING ARE NOT RECOMMENDED  
GRASS OR ORGANIC MATERIALS  
SOIL, MUCK, OR SAND

#### LEVELING:

LEVELING MATERIALS RECOMMENDED  
THE FOLLOWING ARE RECOMMENDATIONS, DECISION IS UP TO U-HAUL  
6X6 PRESSURE TREATED POST  
SOLID CONCRETE BLOCKS  
POURED CONCRETE FOOTING PADS  
CREOSOTE TIMBER

LEVELING MATERIALS NOT RECOMMENDED  
SOFT WOODS (UNTREATED PINE)

NO.	DATE	DESCRIPTION	BY	NO.	DATE	DESCRIPTION	BY
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5				11			
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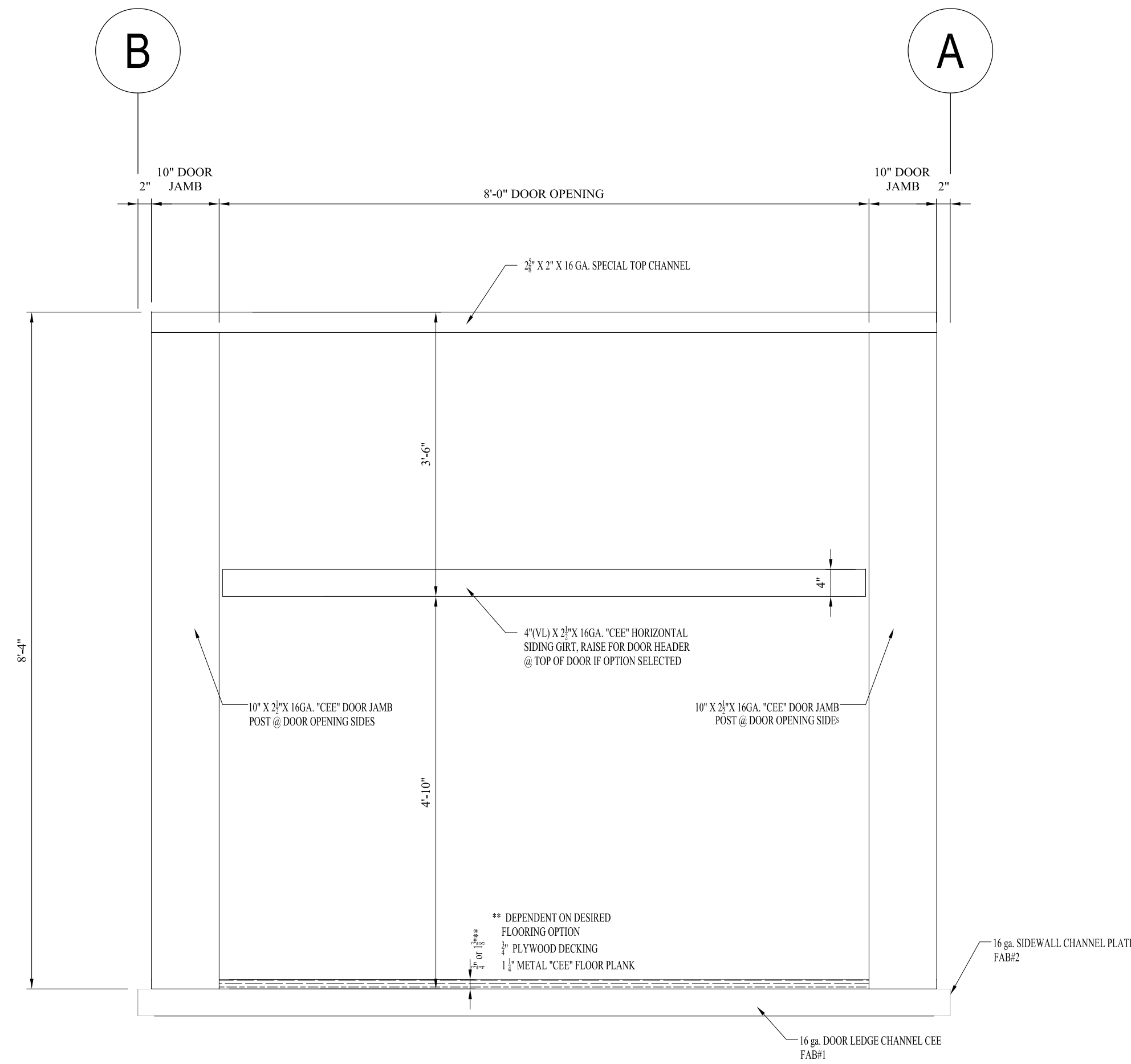
**KBM, INC.**  
Steel Construction  
Steel Building Products & Installation Services  
Steel Storage  
P.O. BOX 2801 / ASTON, PA. 19014  
PH: (610) 965-4698  
FX: (610) 965-4949

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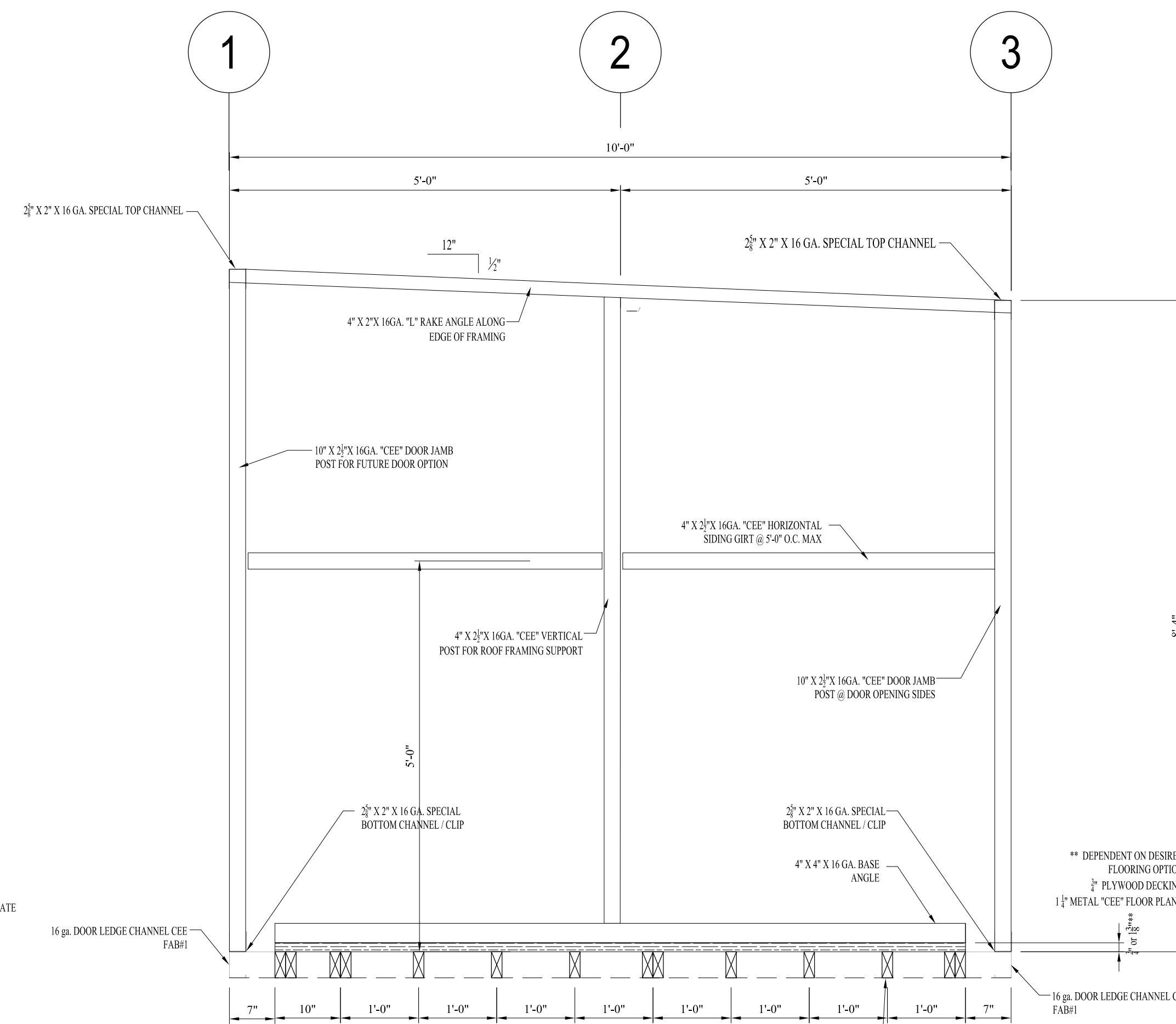
U-HAUL OF THE TOWN OF CLAYTON  
2927 SHADY LANE  
NEENAH, WISCONSIN 54956

DRAWN  
KBM  
DATE  
05/25/2023  
SCALE  
PER PLAN  
SHEET  
**S1**  
OF SHEETS

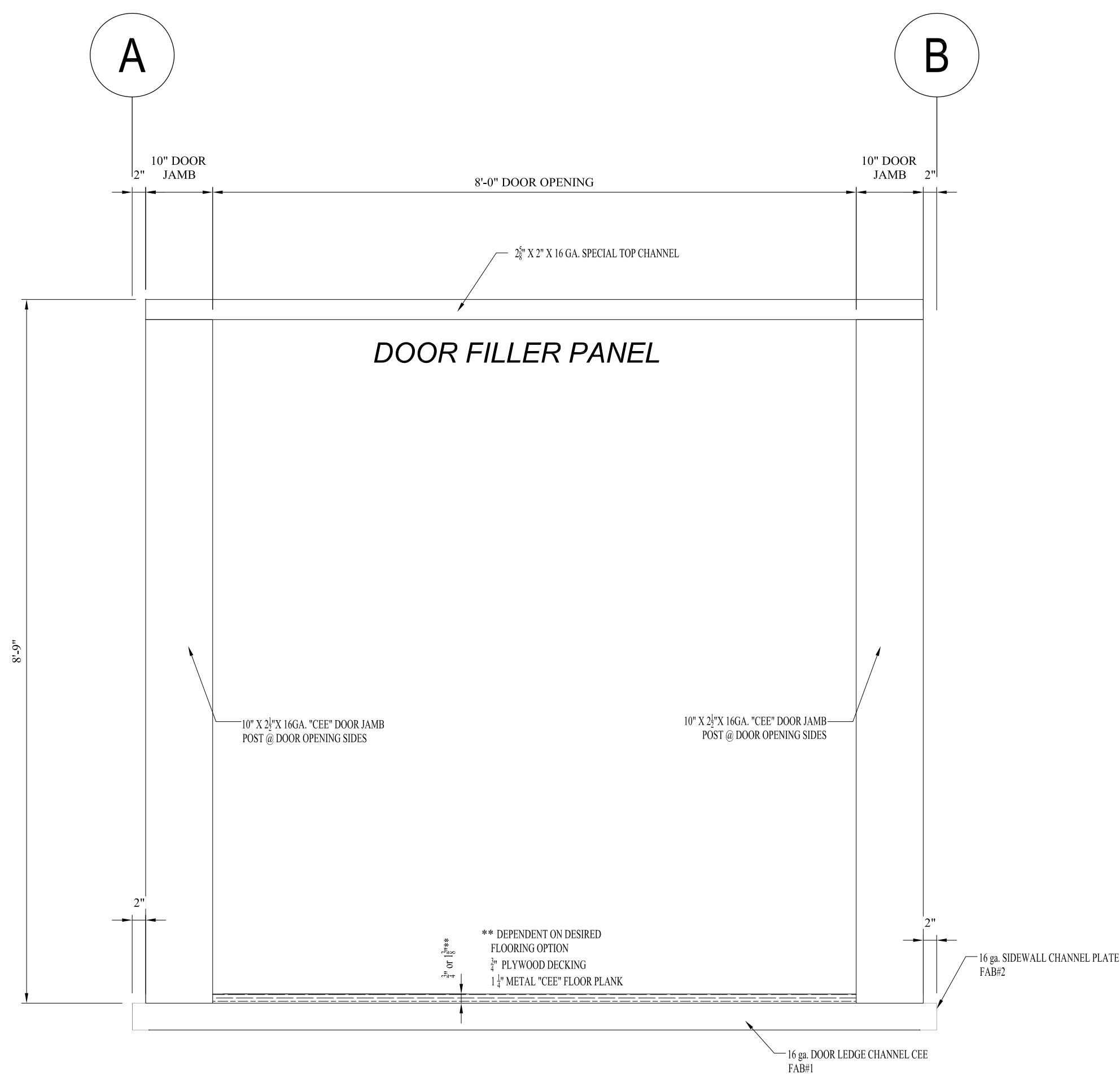




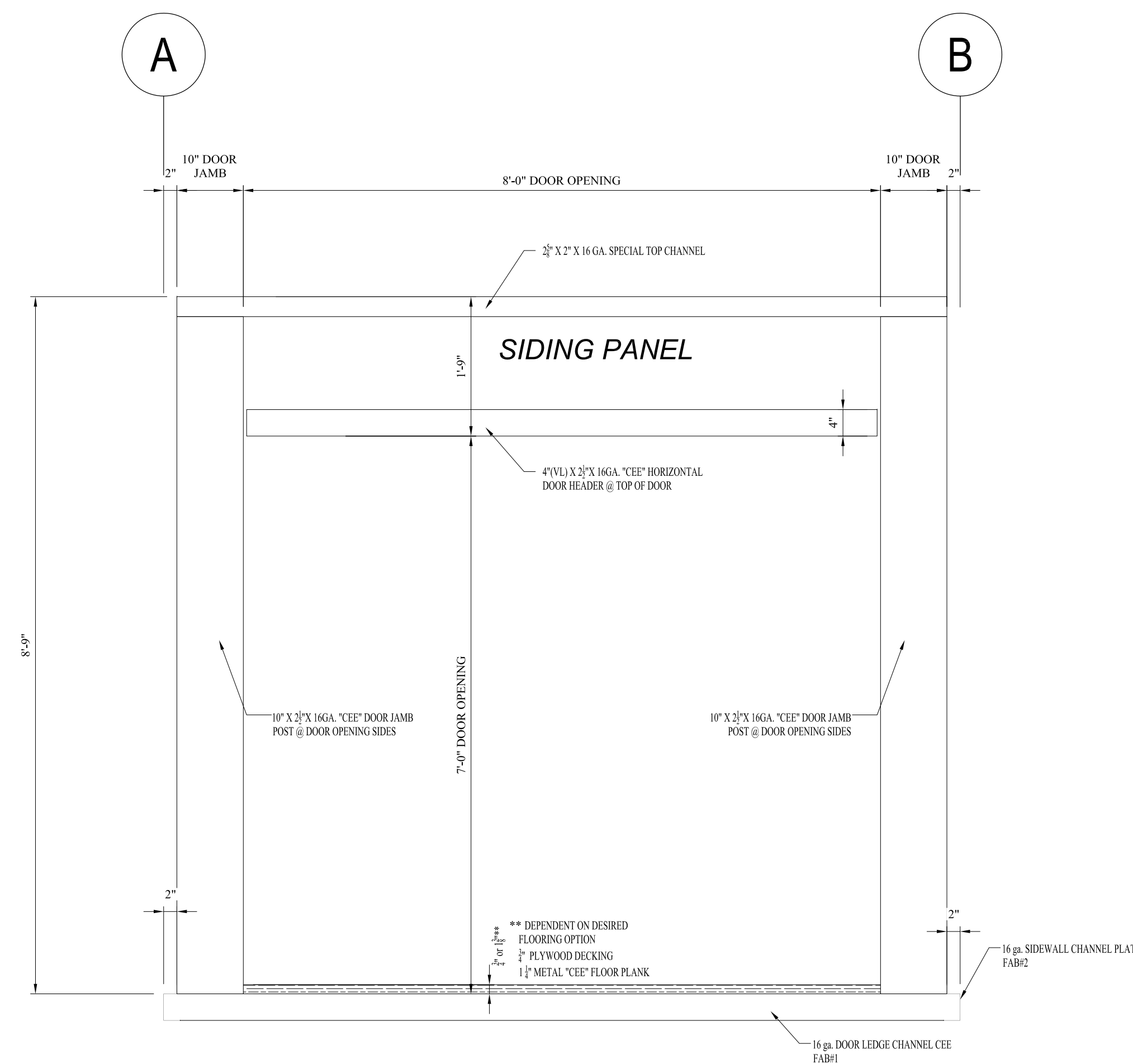
LOW EAVE (REAR)  
FRAMING ELEVATION



SIDEWALL  
FRAMING ELEVATION



HIGH EAVE (FRONT/DOOR SIDE)  
DOOR HEADER ABOVE DOOR OPTION  
FRAMING ELEVATION



HIGH EAVE (FRONT/DOOR SIDE)  
SIDING ABOVE DOOR OPTION  
FRAMING ELEVATION

RELOCATABLE MODULAR  
10'-0" WIDE X 10'-0" DEEP  
BUILDING ELEVATIONS

JOB PROGRESS		NO.	DATE	DESCRIPTION	BY
1		1			
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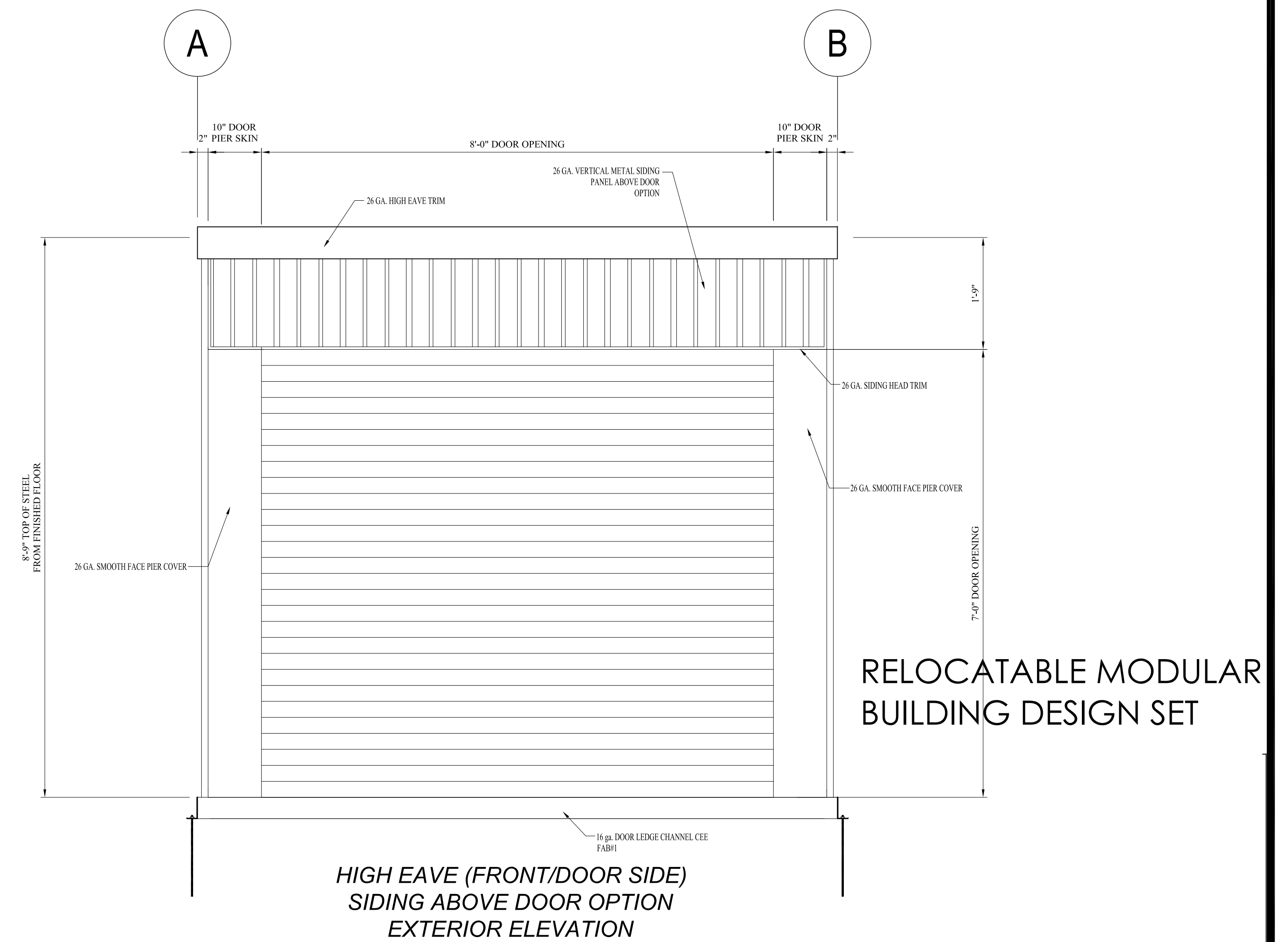
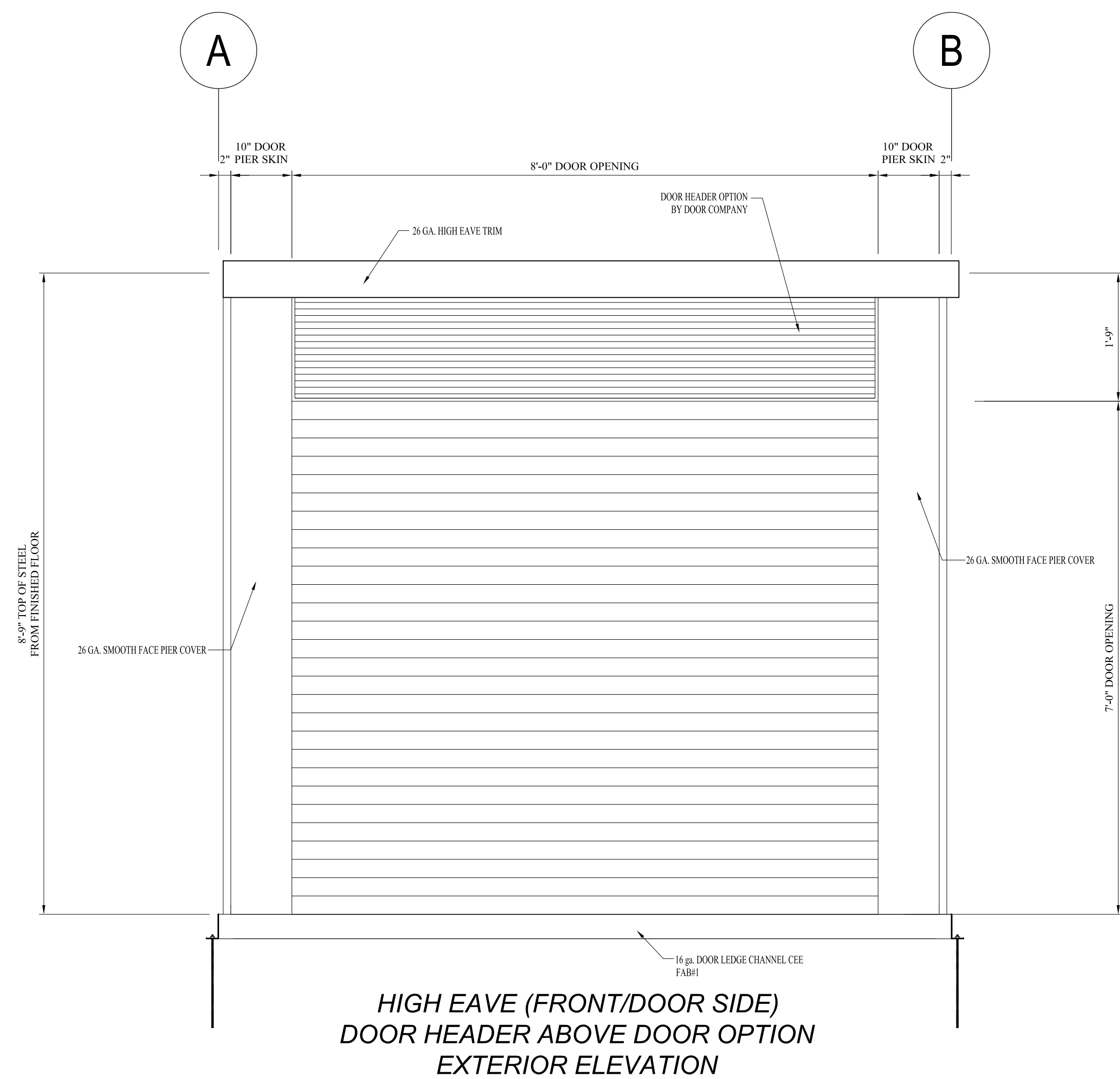
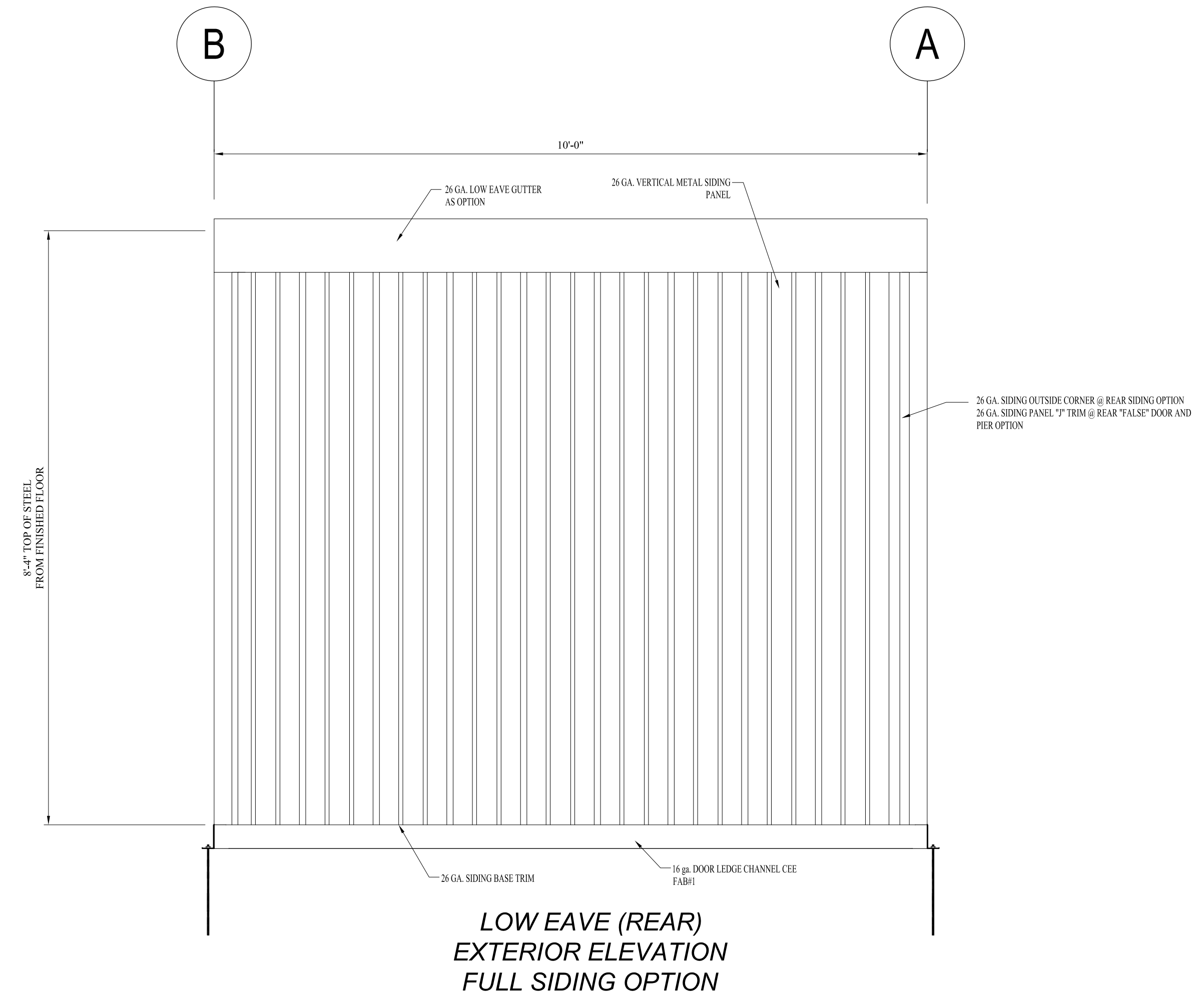
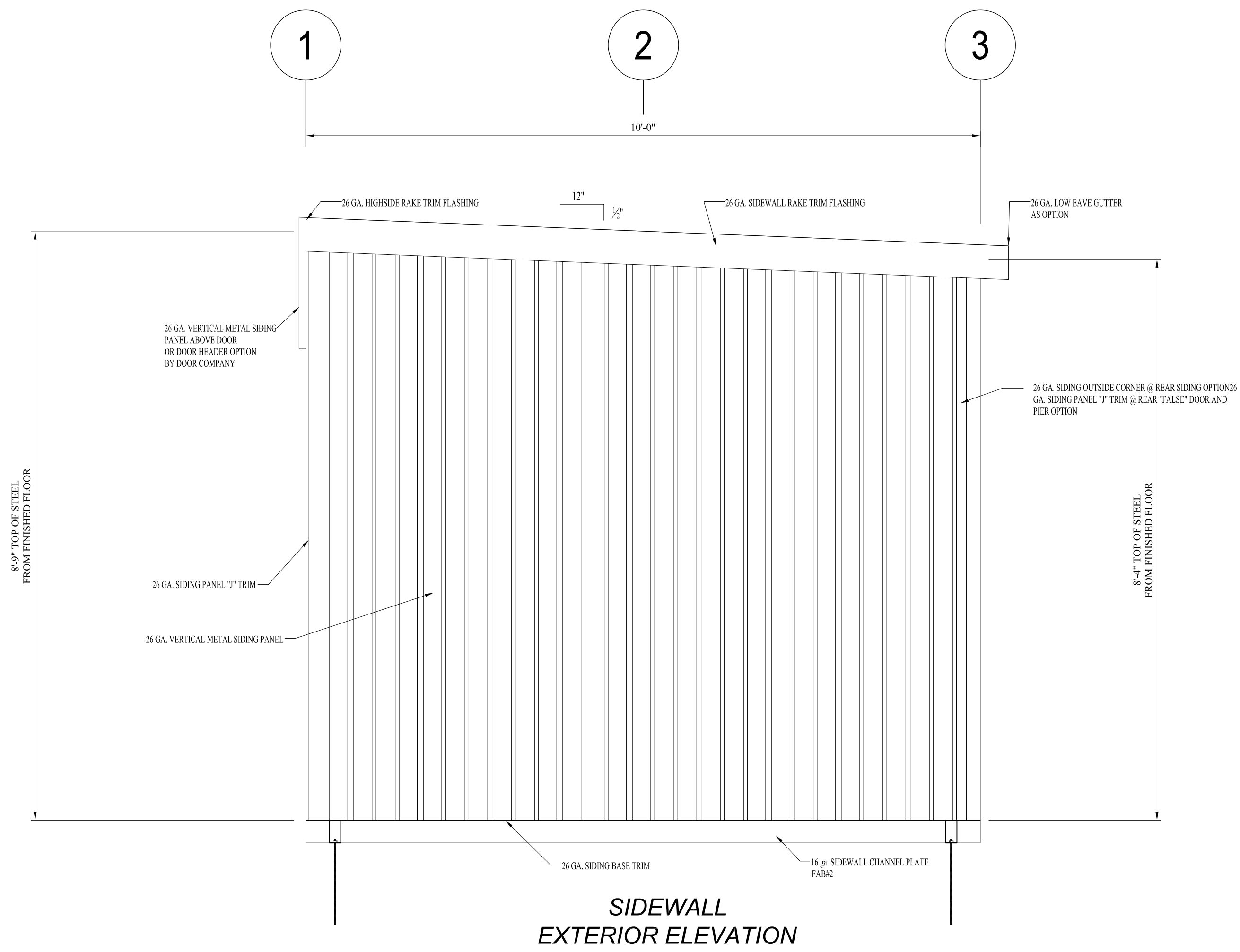
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2927 SHADY LANE  
NEENAH, WISCONSIN 54956

DRAWN	
DATE	05/25/2023
SCALE	
PER PLAN SHEET	
S3	
OF	SHEETS



RELOCATABLE MODULAR BUILDING DESIGN SET

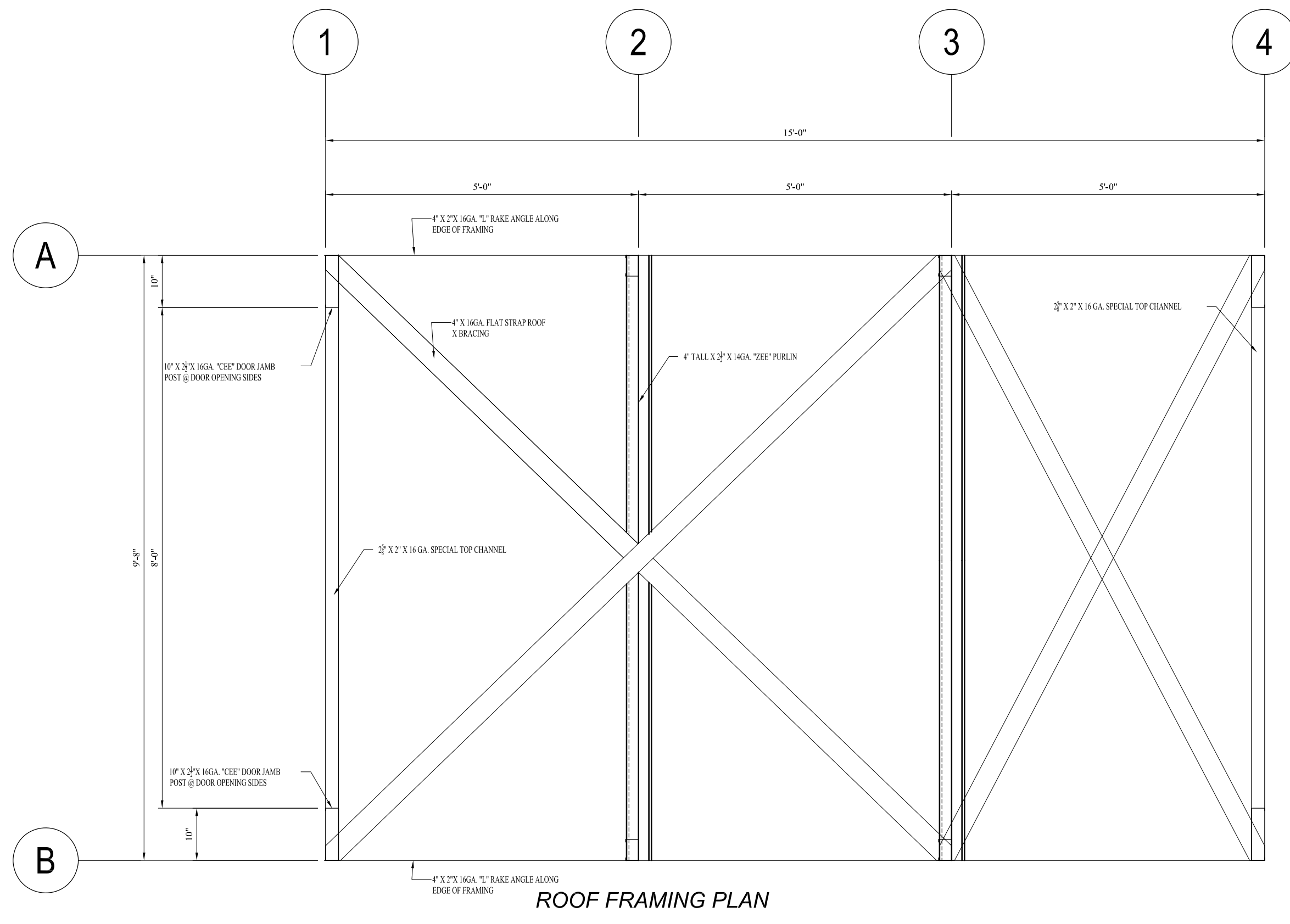
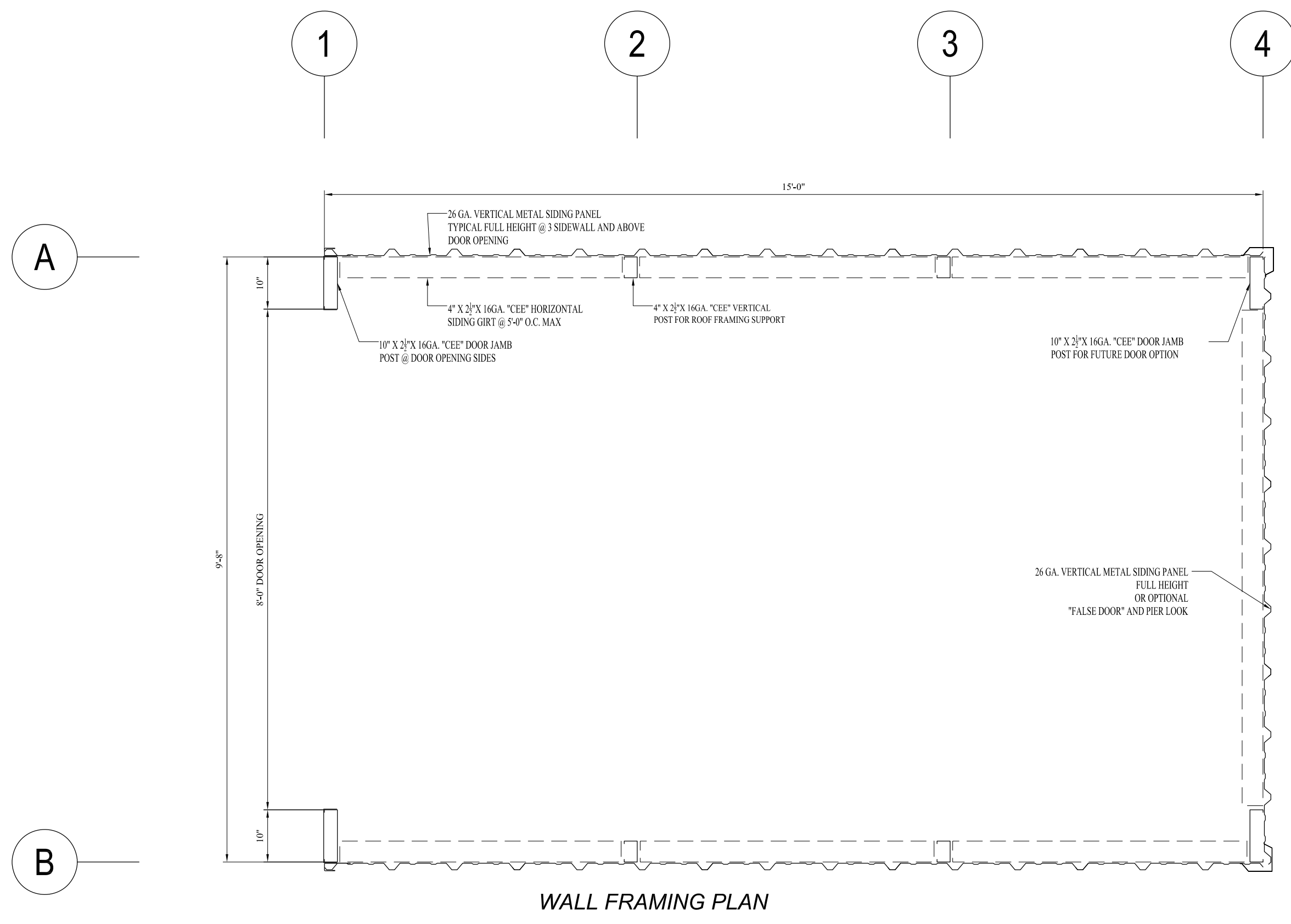
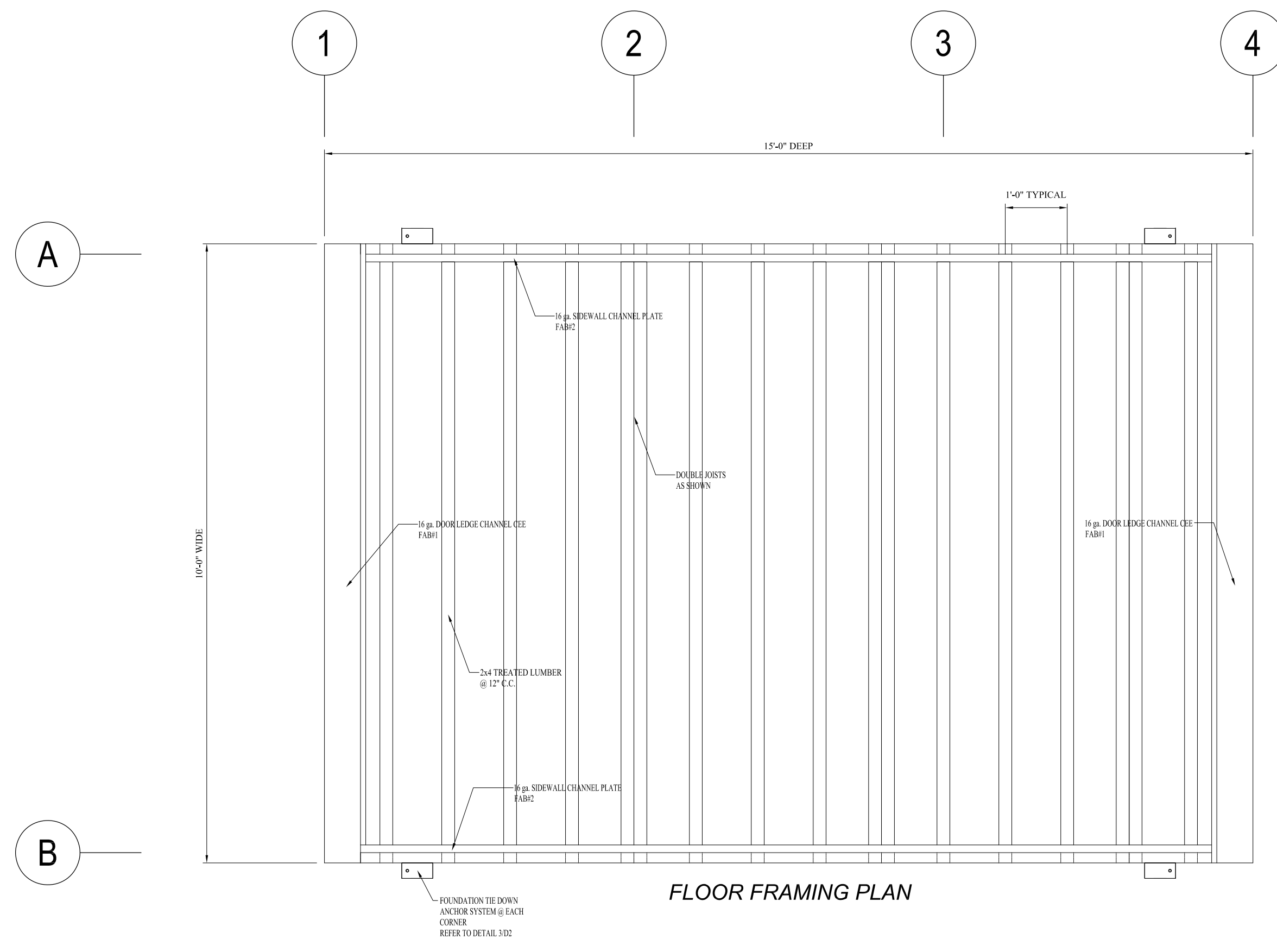
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 SCALE PER PLAN SHEET  
**S4**  
 OF SHEETS



RELOCATABLE MODULAR  
10'-0" WIDE X 15'-0" DEEP  
BUILDING LAYOUT PLAN

JOB PROGRESS		NO.	DATE	DESCRIPTION	BY
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12	12	12			

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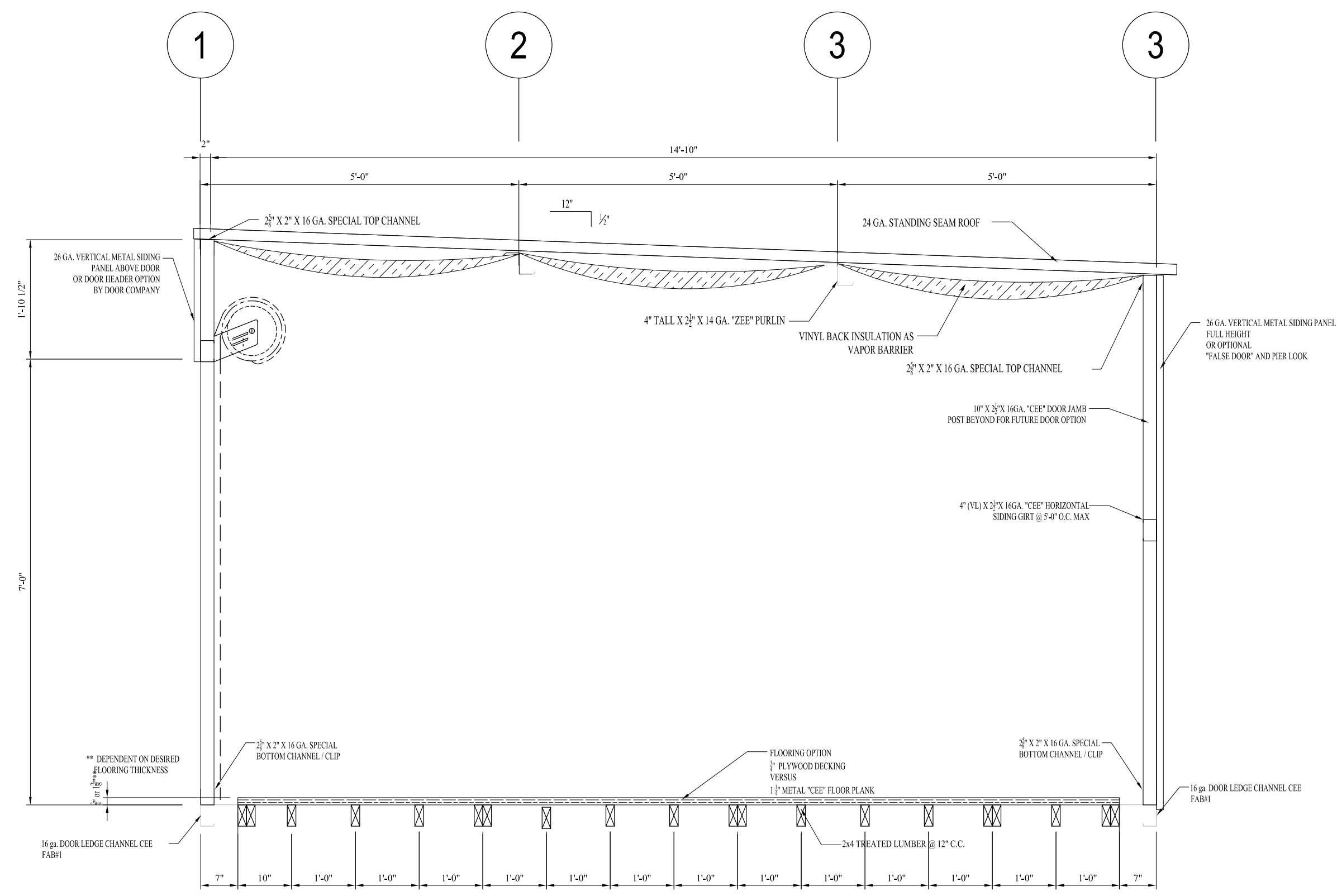
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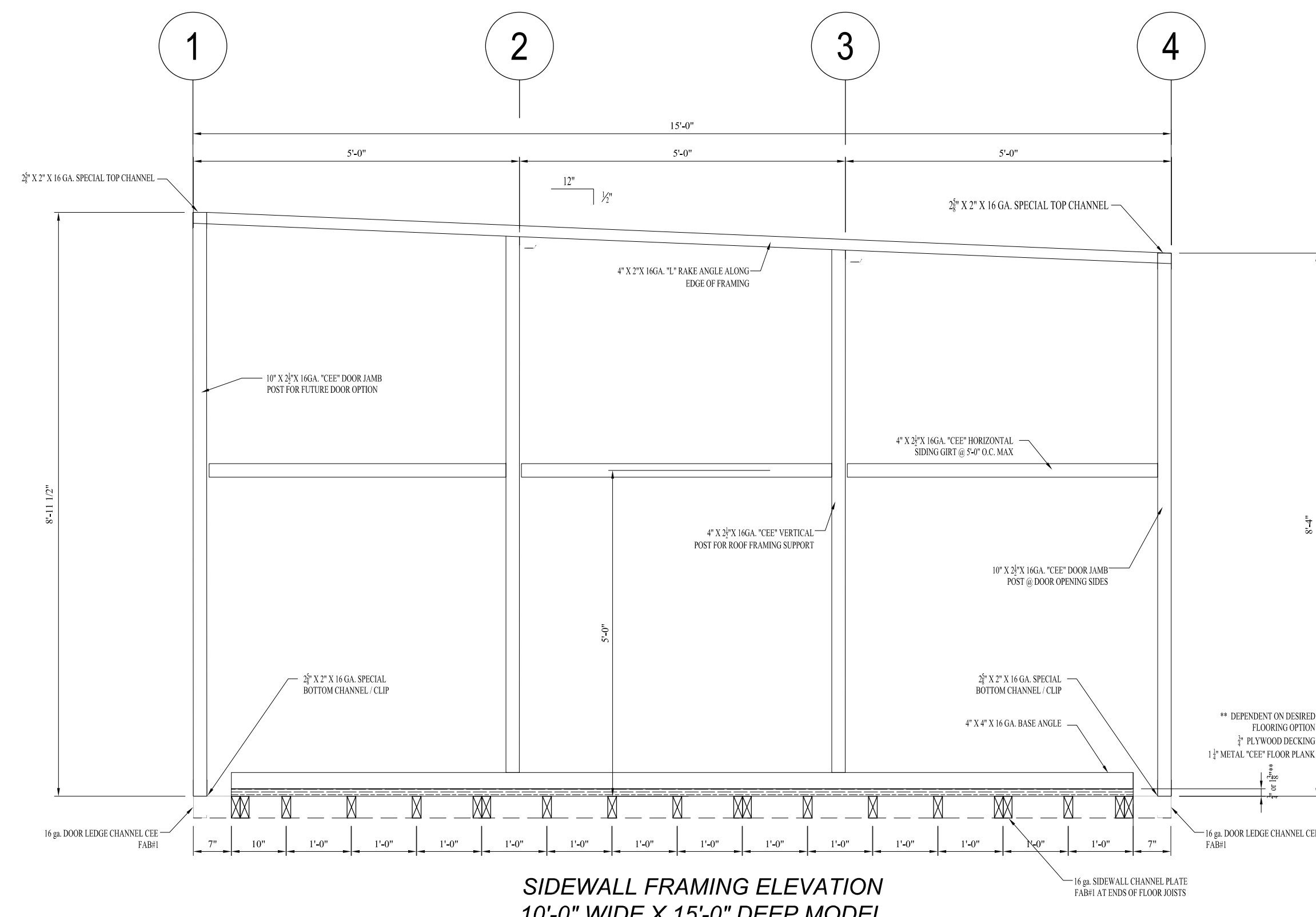
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DRAWN
DATE 05/25/2023
SCALE
PER PLAN SHEET
<b>S5</b>

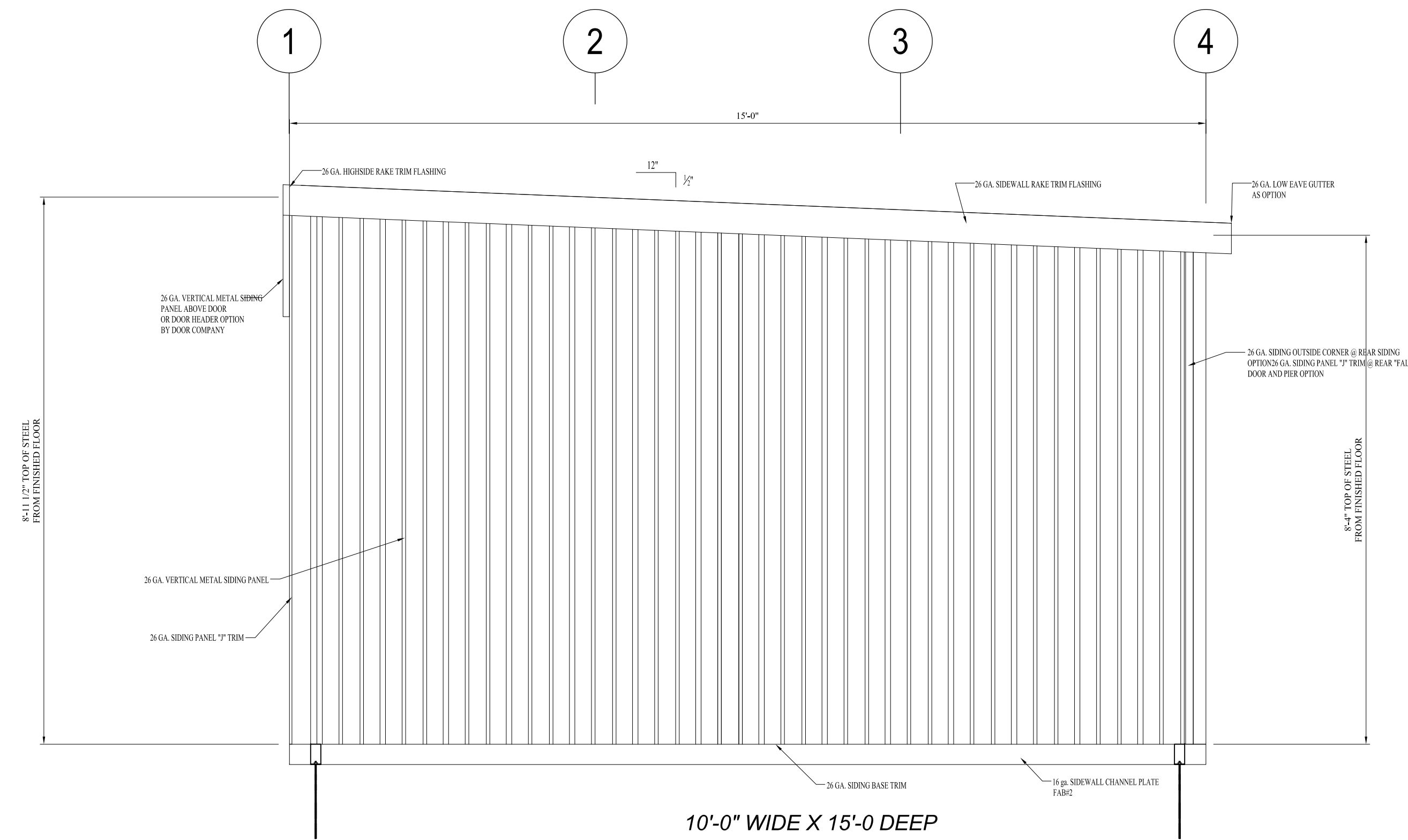
OF SHEETS



10'-0" WIDE X 15'-0 DEEP BUILDING SECTION



SIDEWALL FRAMING ELEVATION  
10'-0" WIDE X 15'-0" DEEP MODEL



10'-0" WIDE X 15'-0 DEEP  
SIDEWALL EXTERIOR ELEVATION

RELOCATABLE MODULAR  
10'-0" WIDE X 15'-0" DEEP  
BUILDING ELEVATIONS

JOB PROGRESS		NO.	DATE	DESCRIPTION	BY
1		1			
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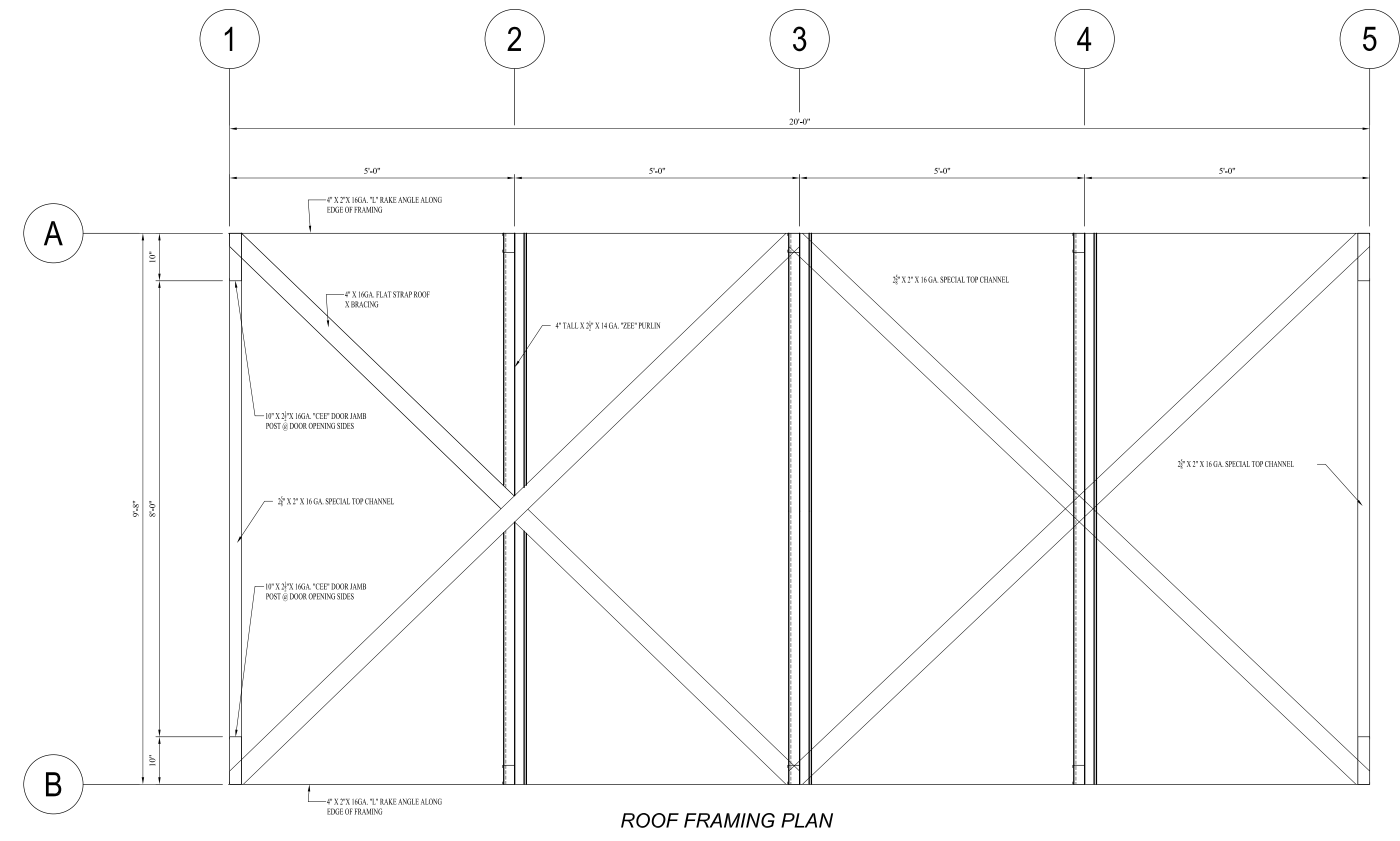
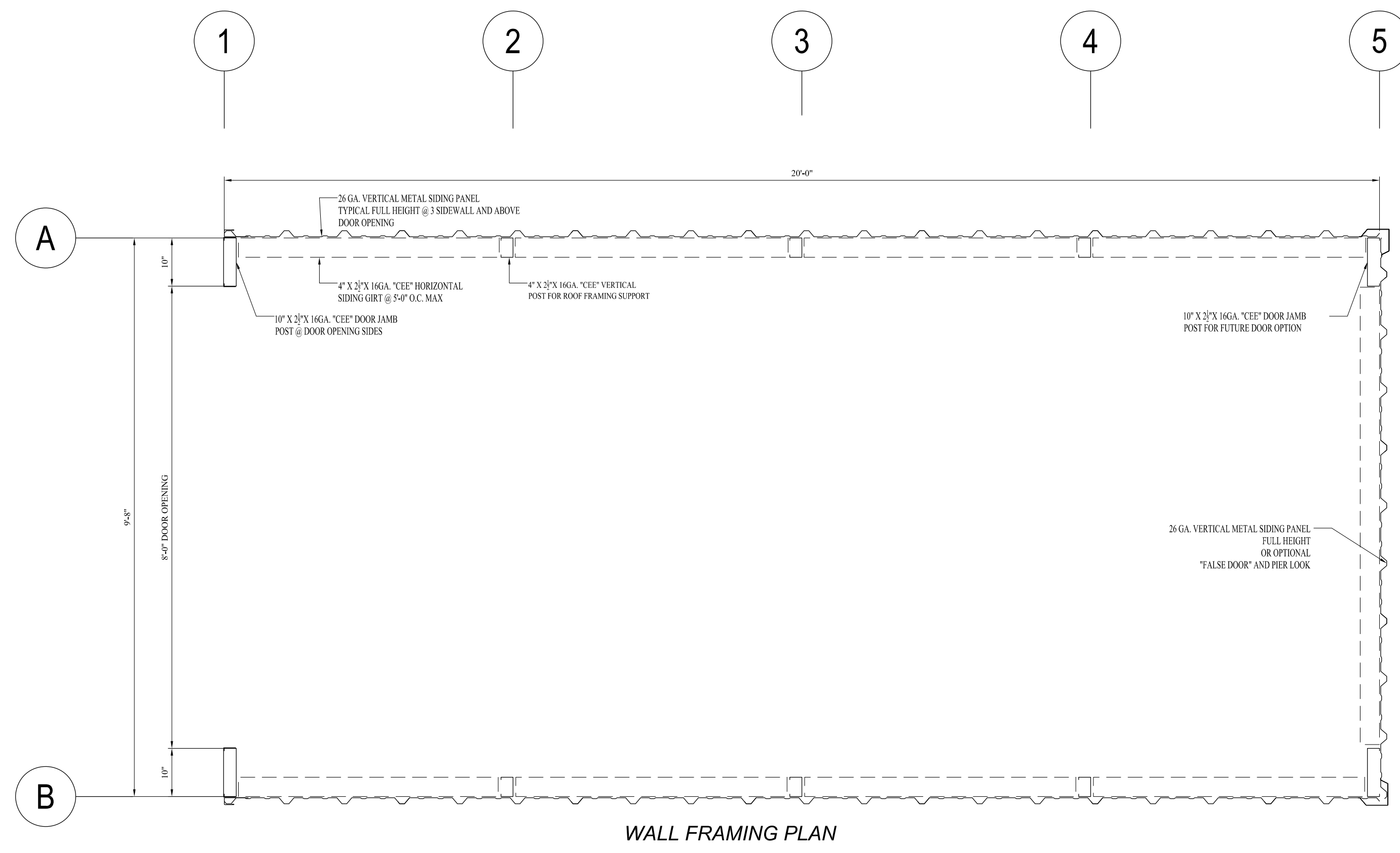
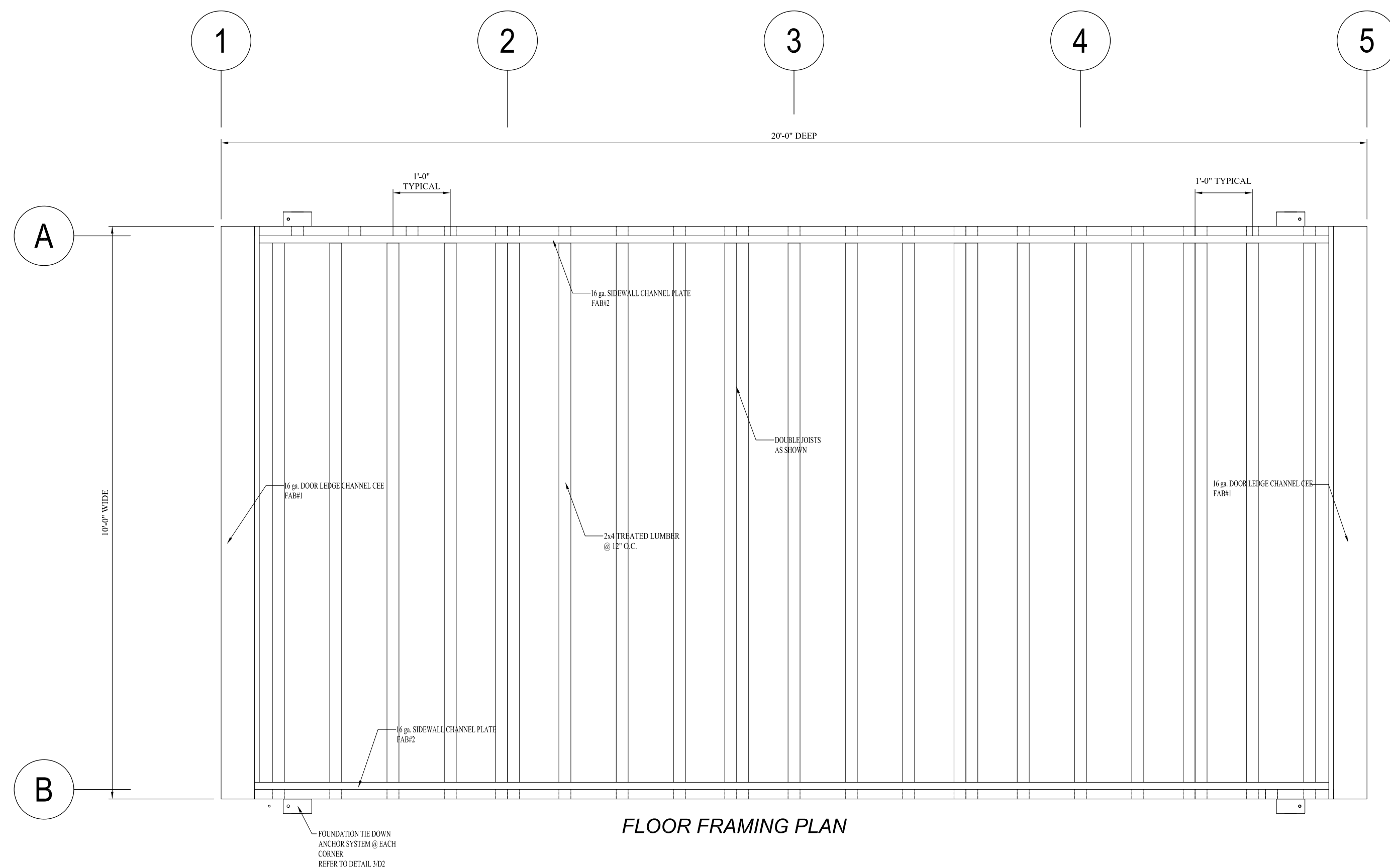
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SCALE
PER PLAN SHEET
<b>S6</b>
OF SHEETS



RELOCATABLE MODULAR  
10'-0" WIDE X 20'-0" DEEP  
BUILDING LAYOUT PLAN

JOB PROGRESS		NO.	DATE	DESCRIPTION	BY
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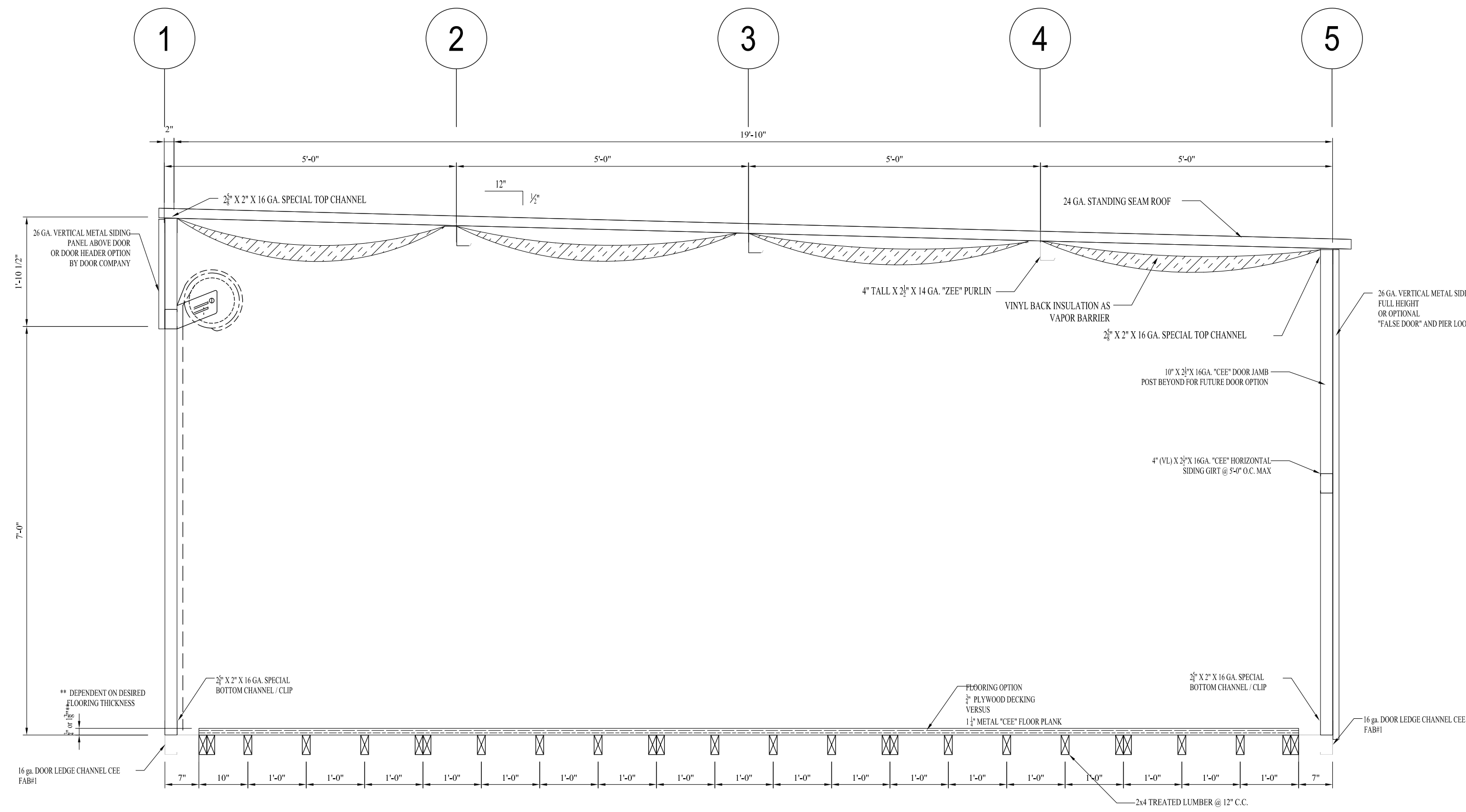
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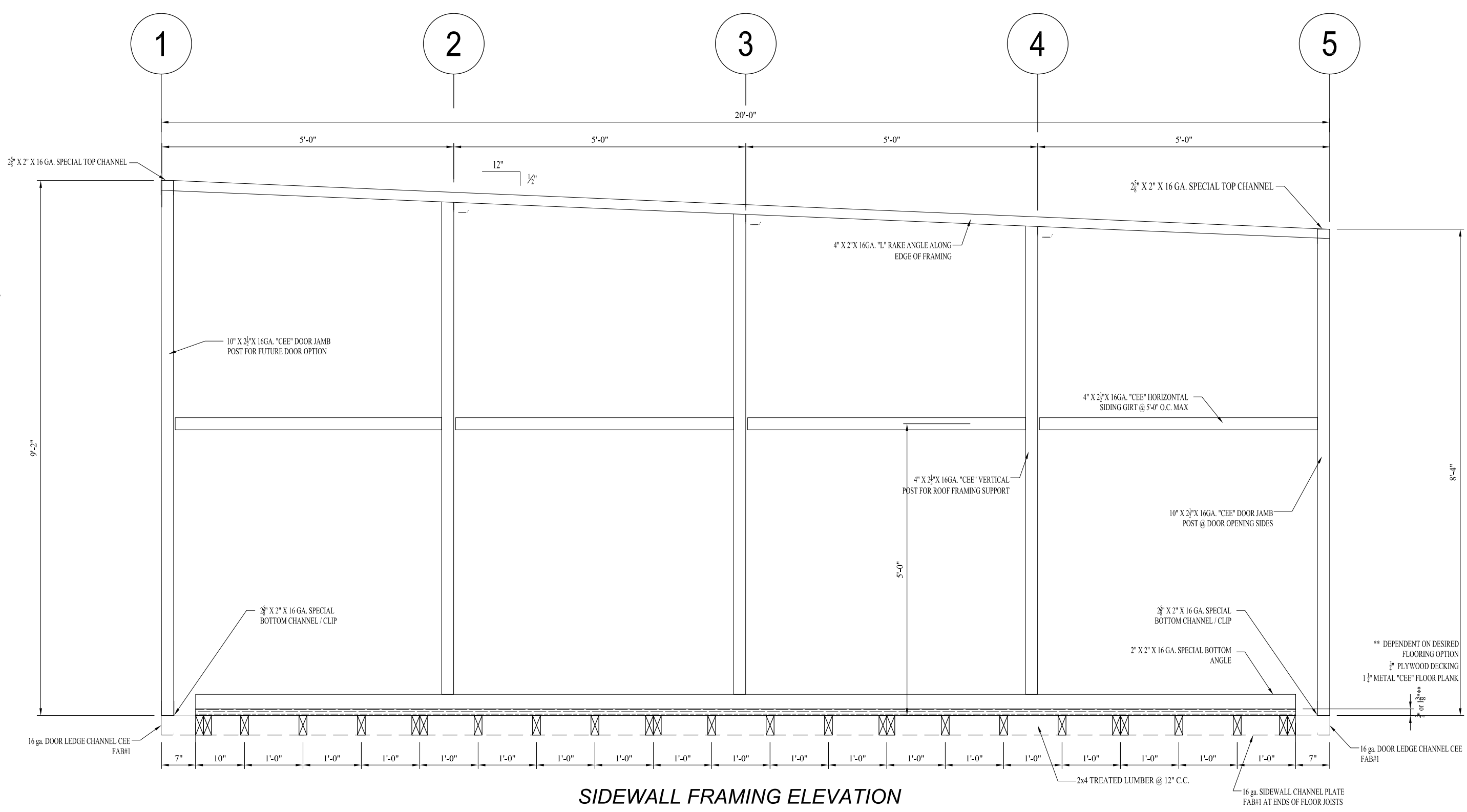
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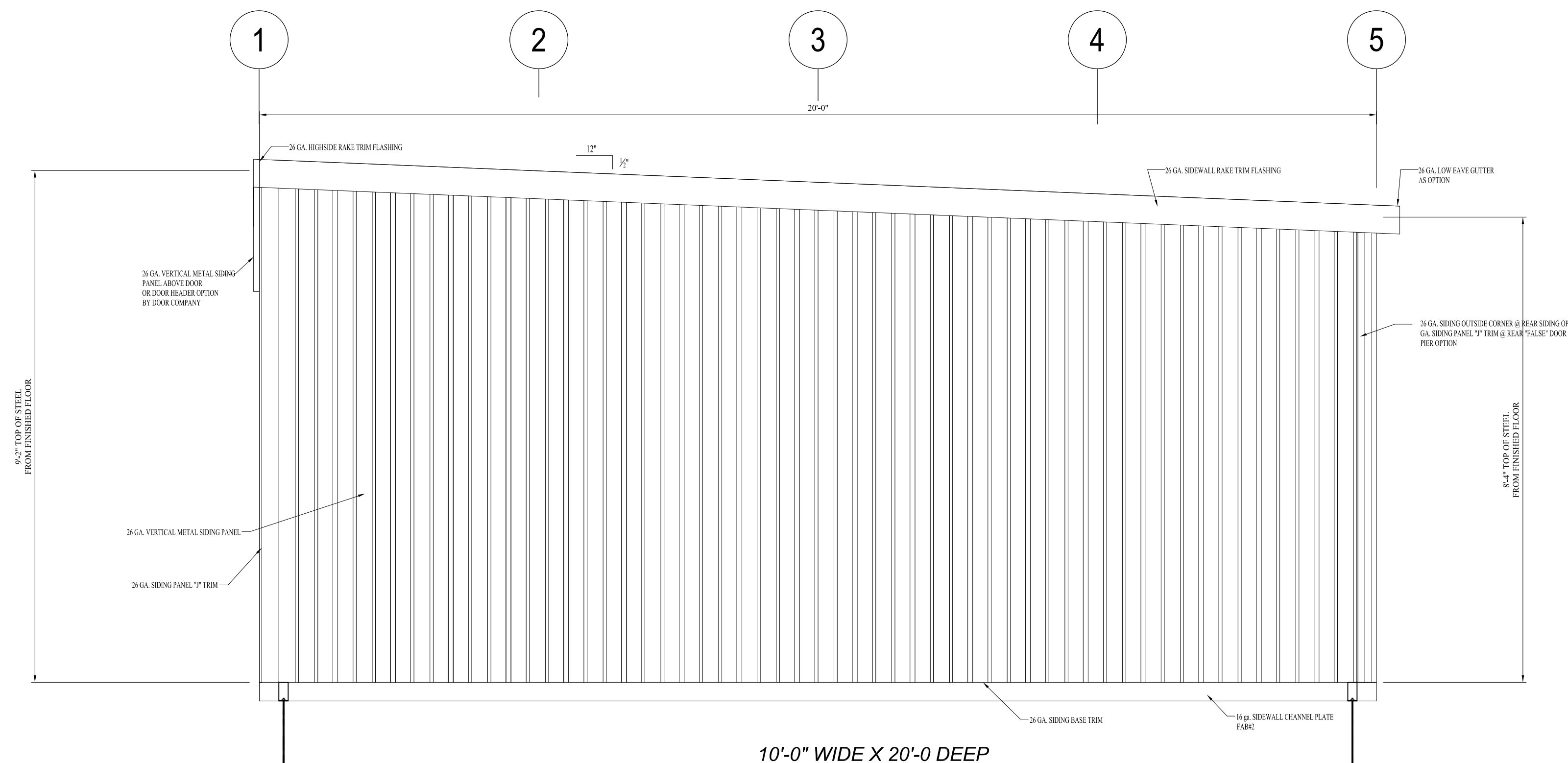
DRAWN
DATE 05/25/2023
SCALE
PER PLAN SHEET
<b>S7</b>
OF SHEETS



10'-0" WIDE X 20'-0" DEEP BUILDING SECTION



SIDEWALL FRAMING ELEVATION  
10'-0" WIDE X 20'-0" DEEP MODEL



10'-0" WIDE X 20'-0" DEEP  
SIDEWALL EXTERIOR ELEVATION

RELOCATABLE MODULAR  
10'-0" WIDE X 20'-0" DEEP  
BUILDING ELEVATIONS

JOB PROGRESS		NO.	DATE	DESCRIPTION	BY
1		1			
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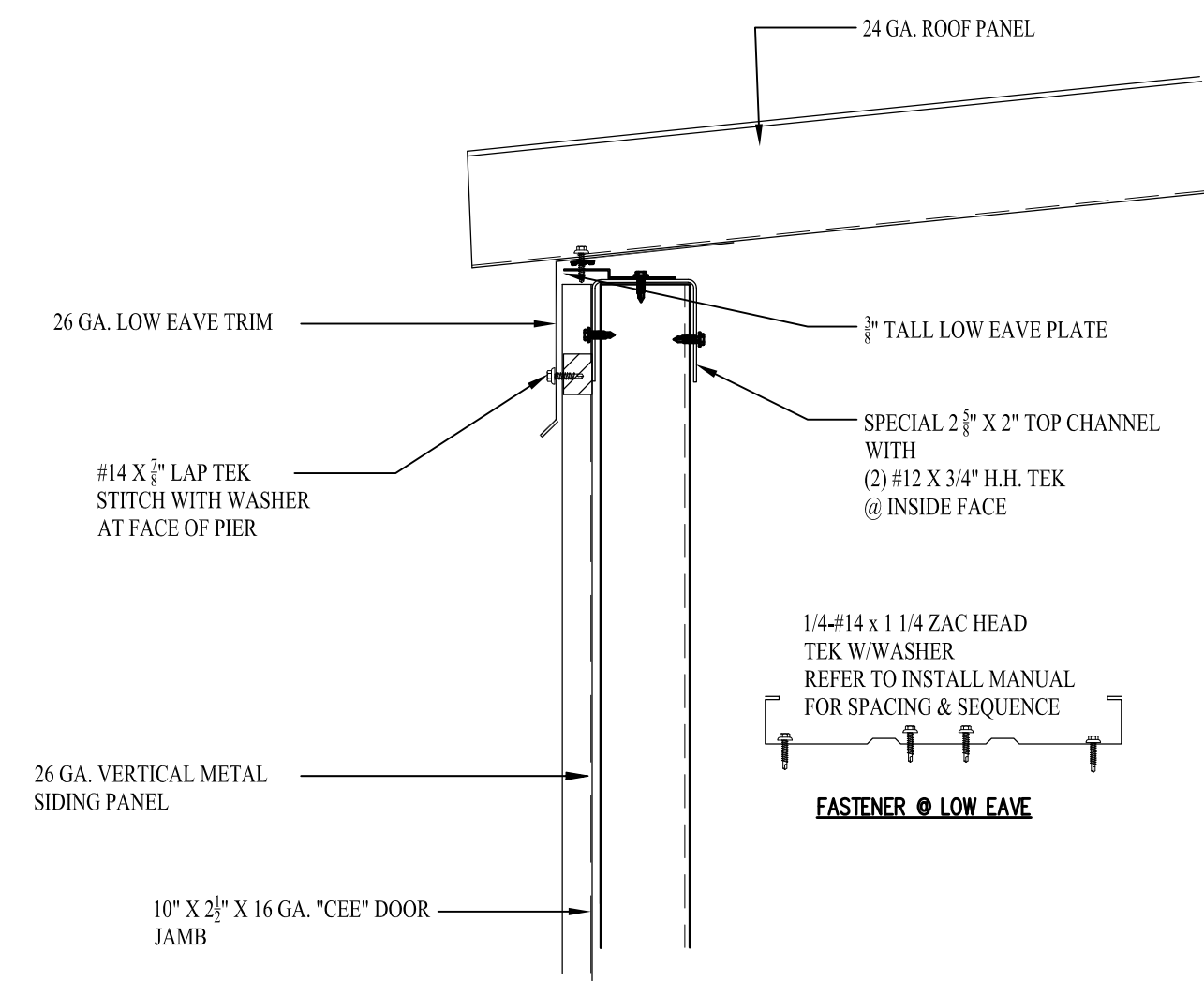
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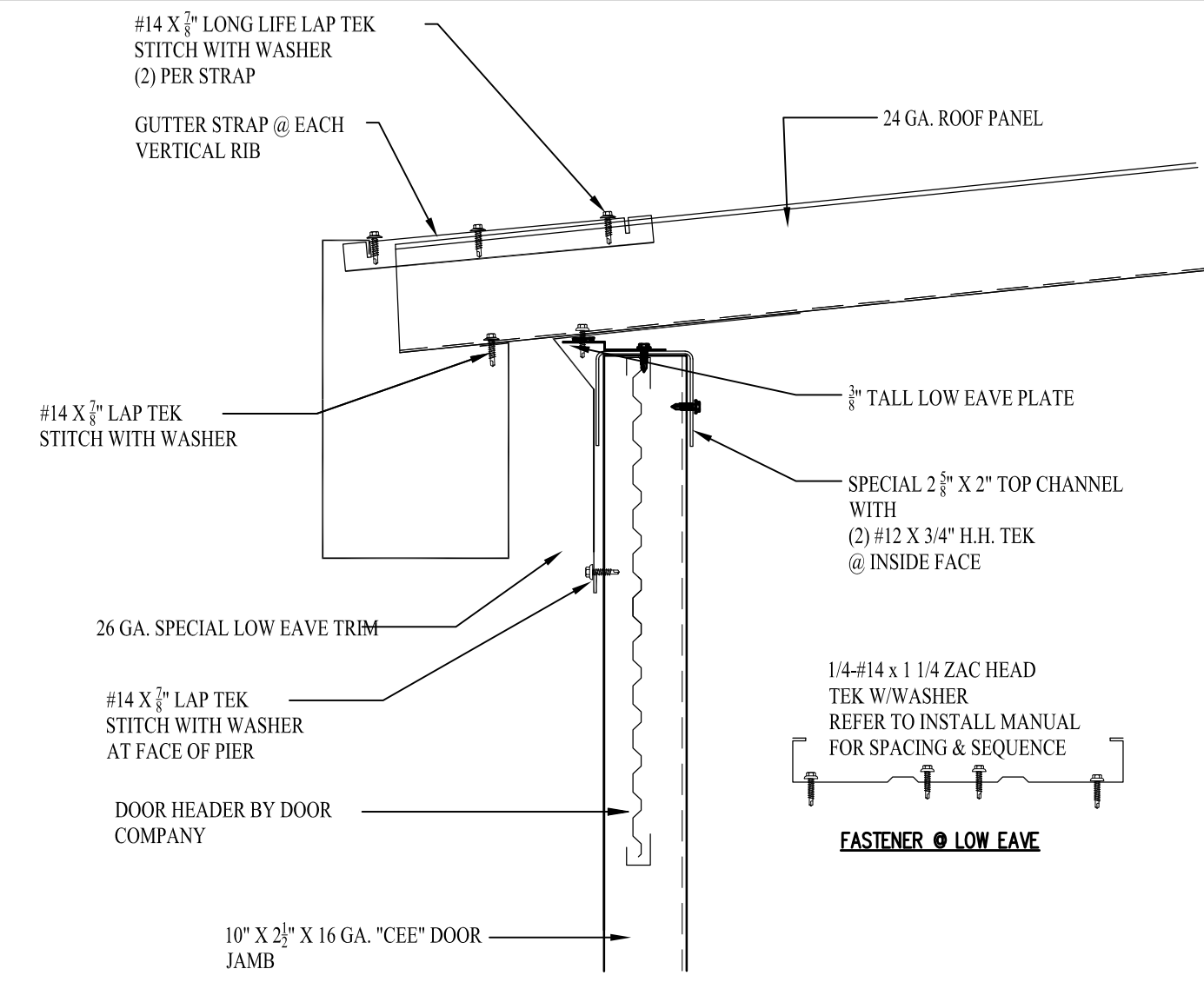
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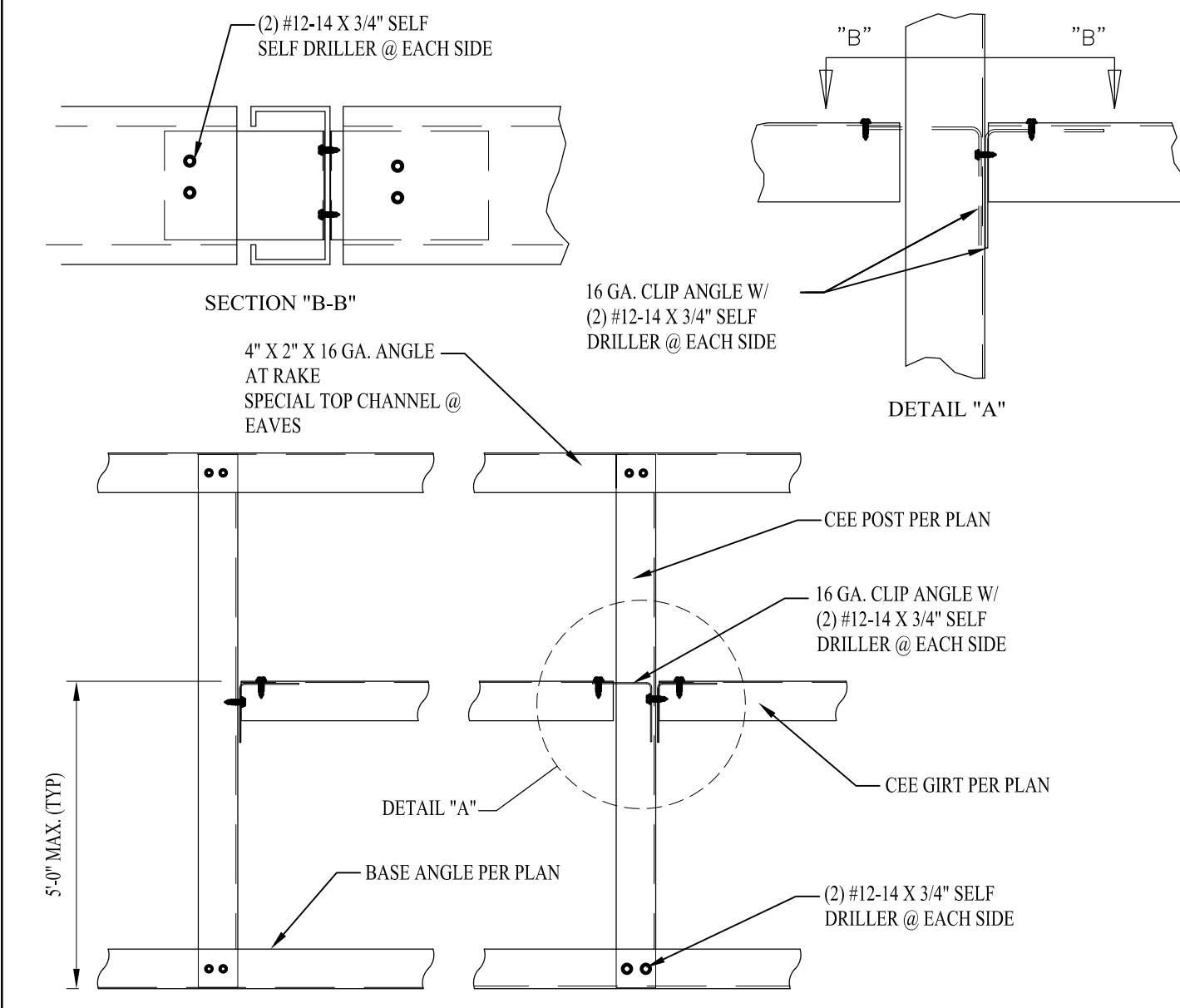
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DATE 05/25/2023
SCALE
PER PLAN SHEET
S8
OF SHEETS



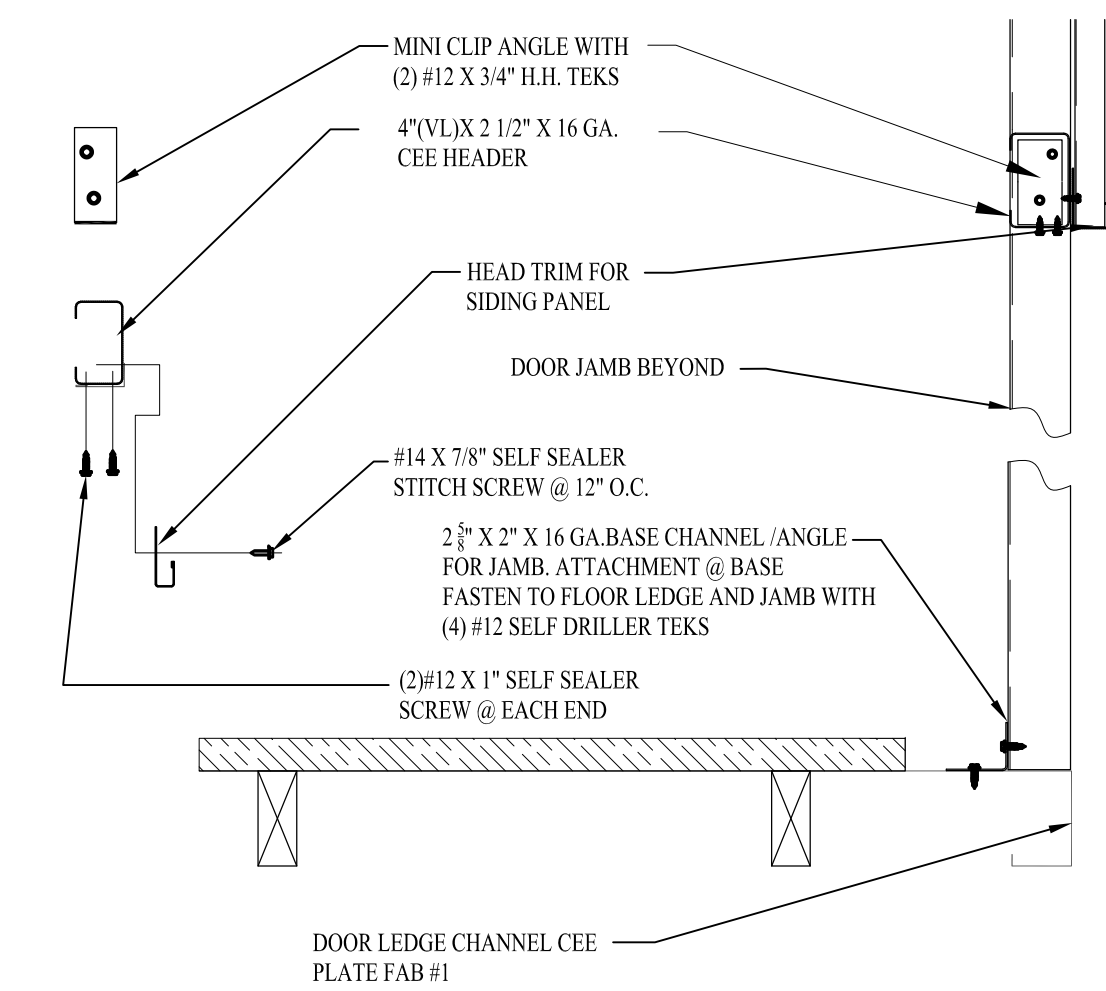
LOW EAVE TRIM WITH SIDING 11



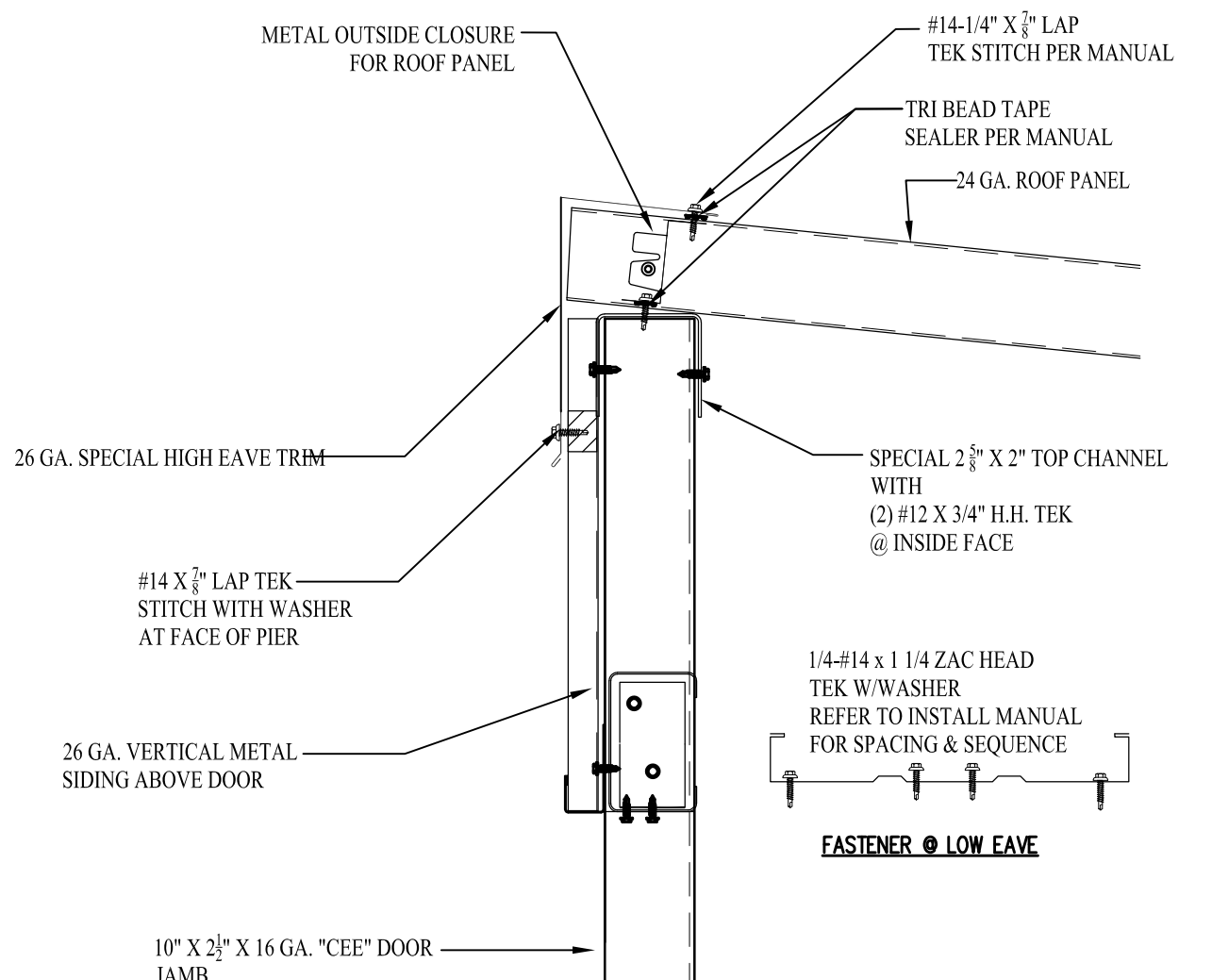
GUTTER OPTION WITH DOOR HEADER 8



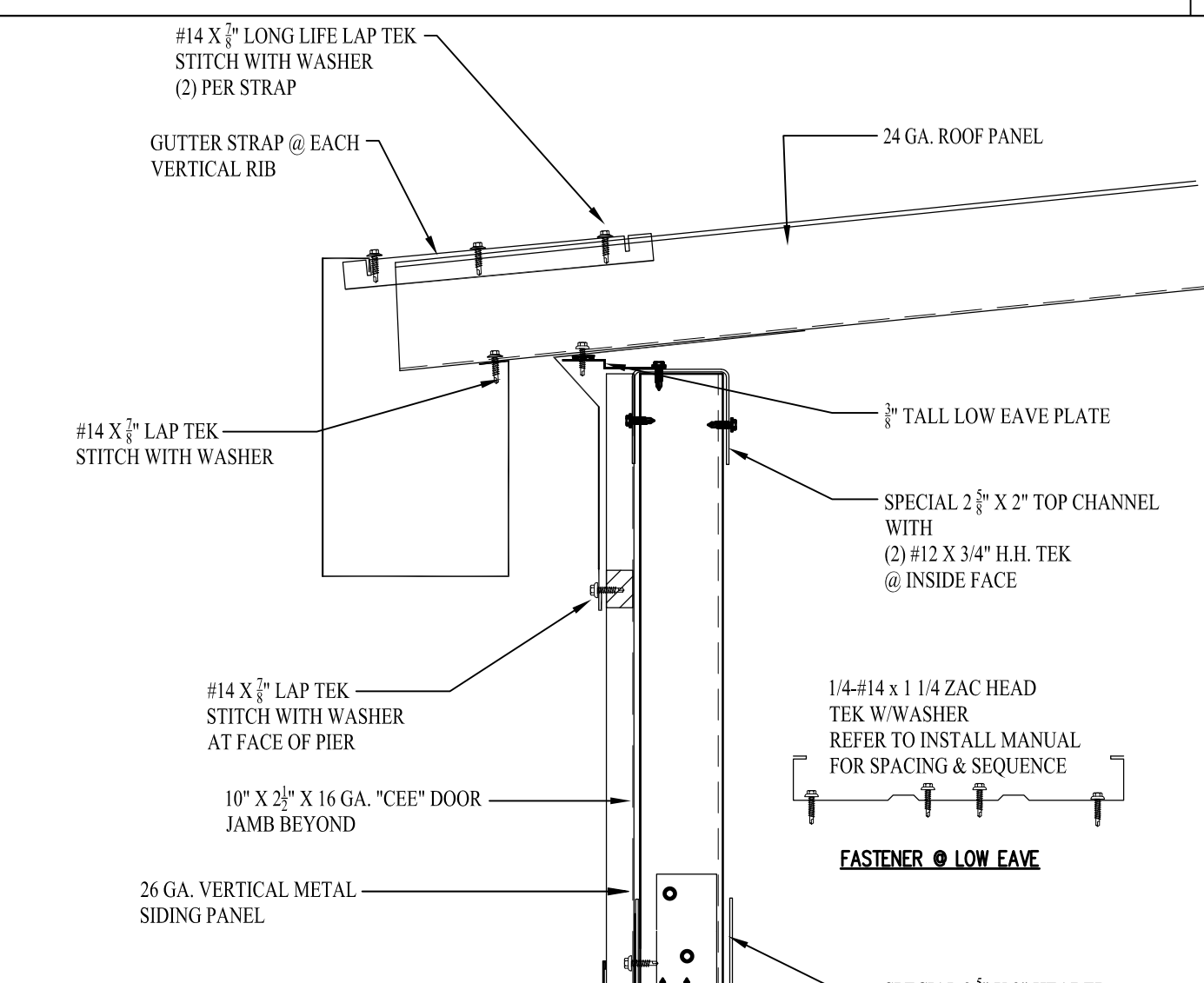
SIDING GIRT DETAIL 5



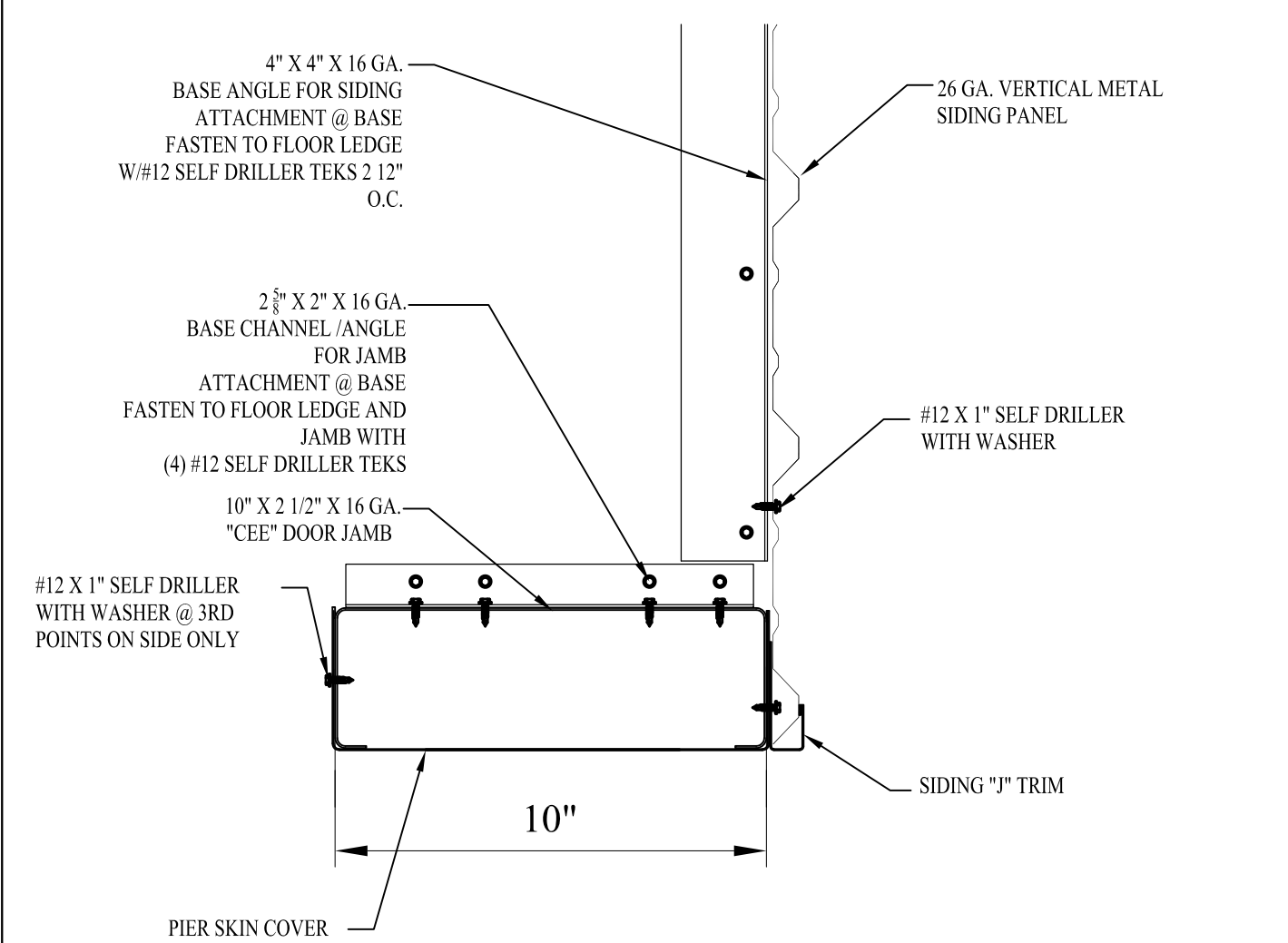
DOOR HEADER ASSEMBLY FOR SIDING OPTION 2



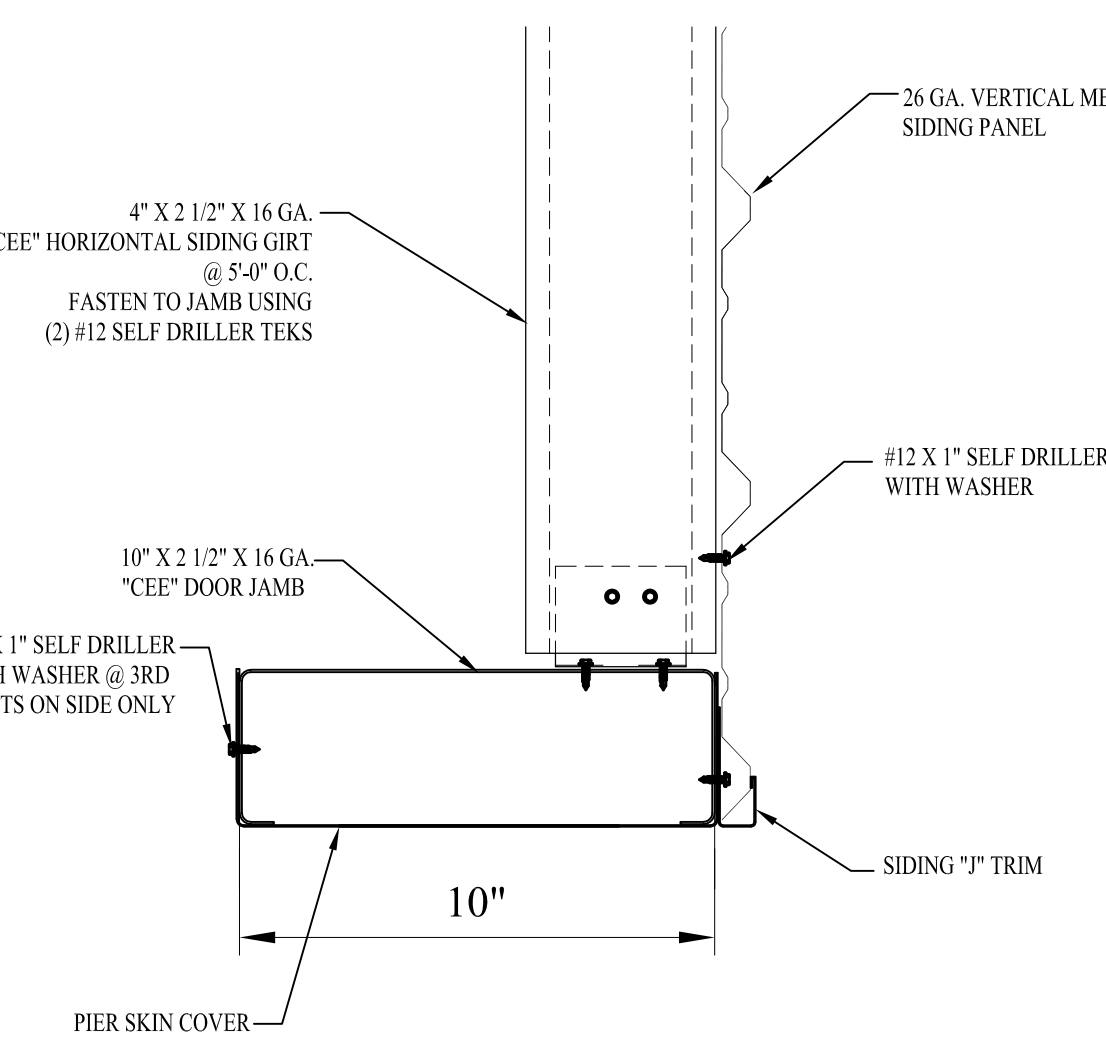
HIGH SIDE EAVE TRIM WITH SIDING 10



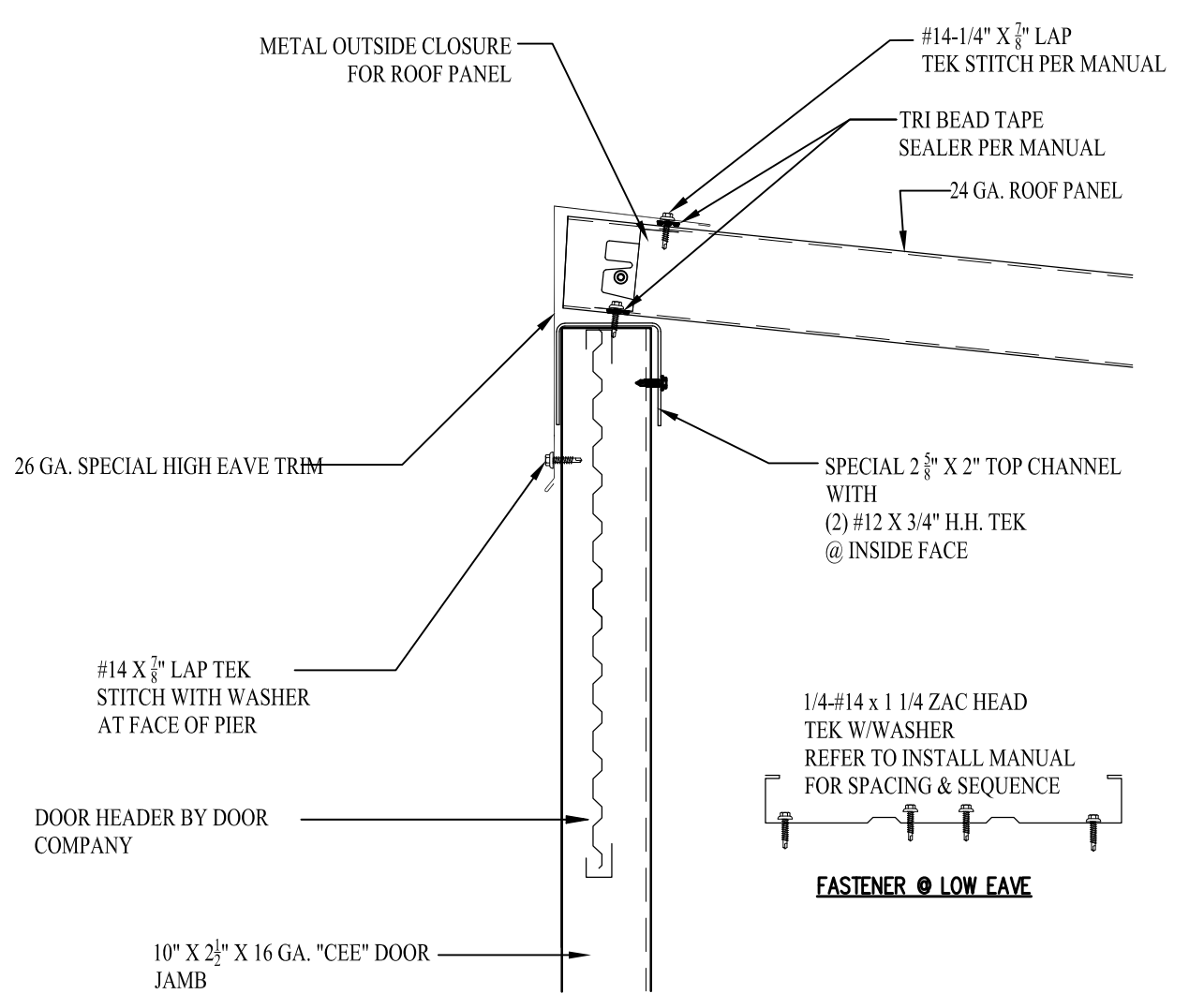
GUTTER OPTION WITH SIDING 7



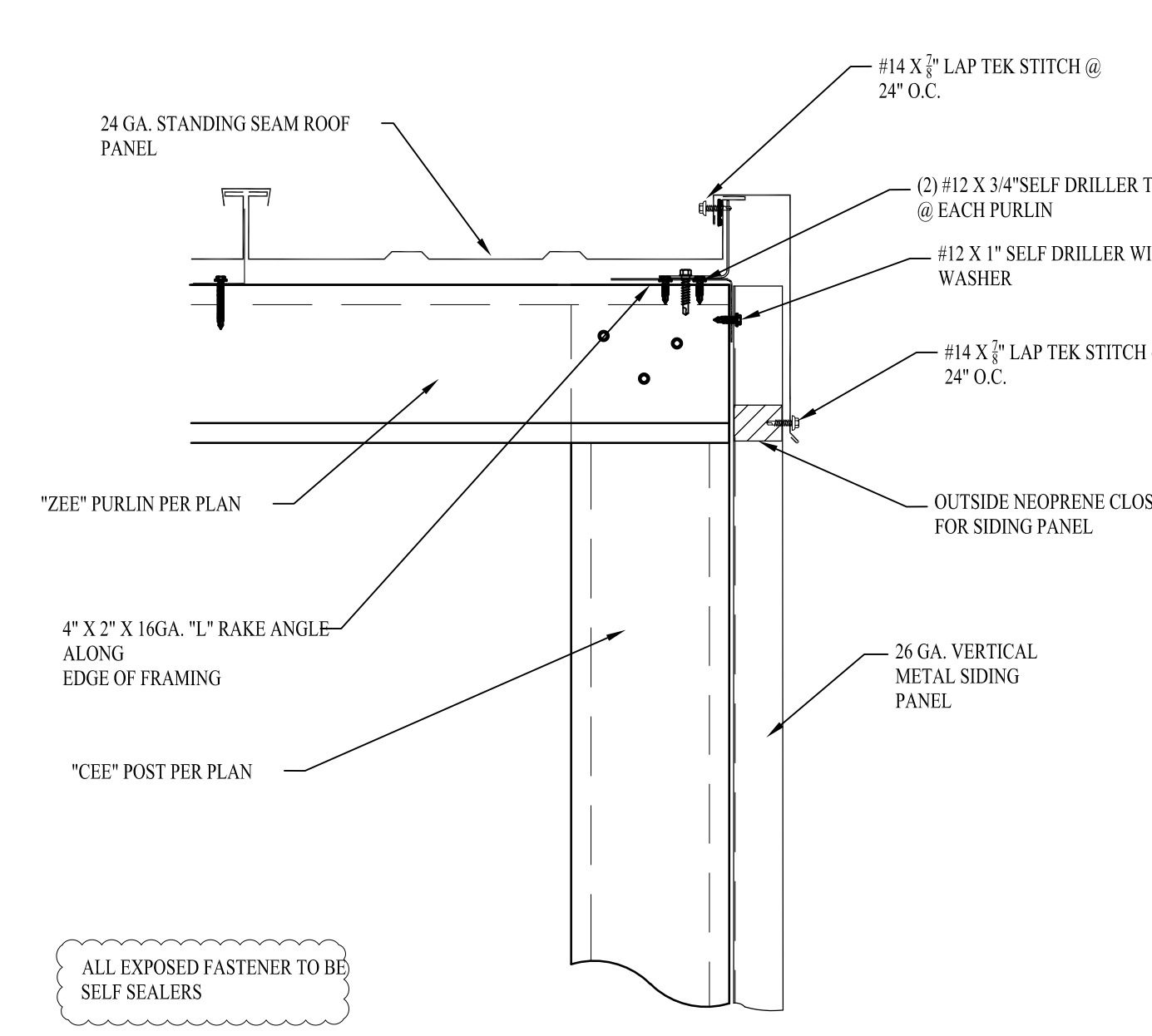
CORNER PIER ASSEMBLY AT FLOOR 4



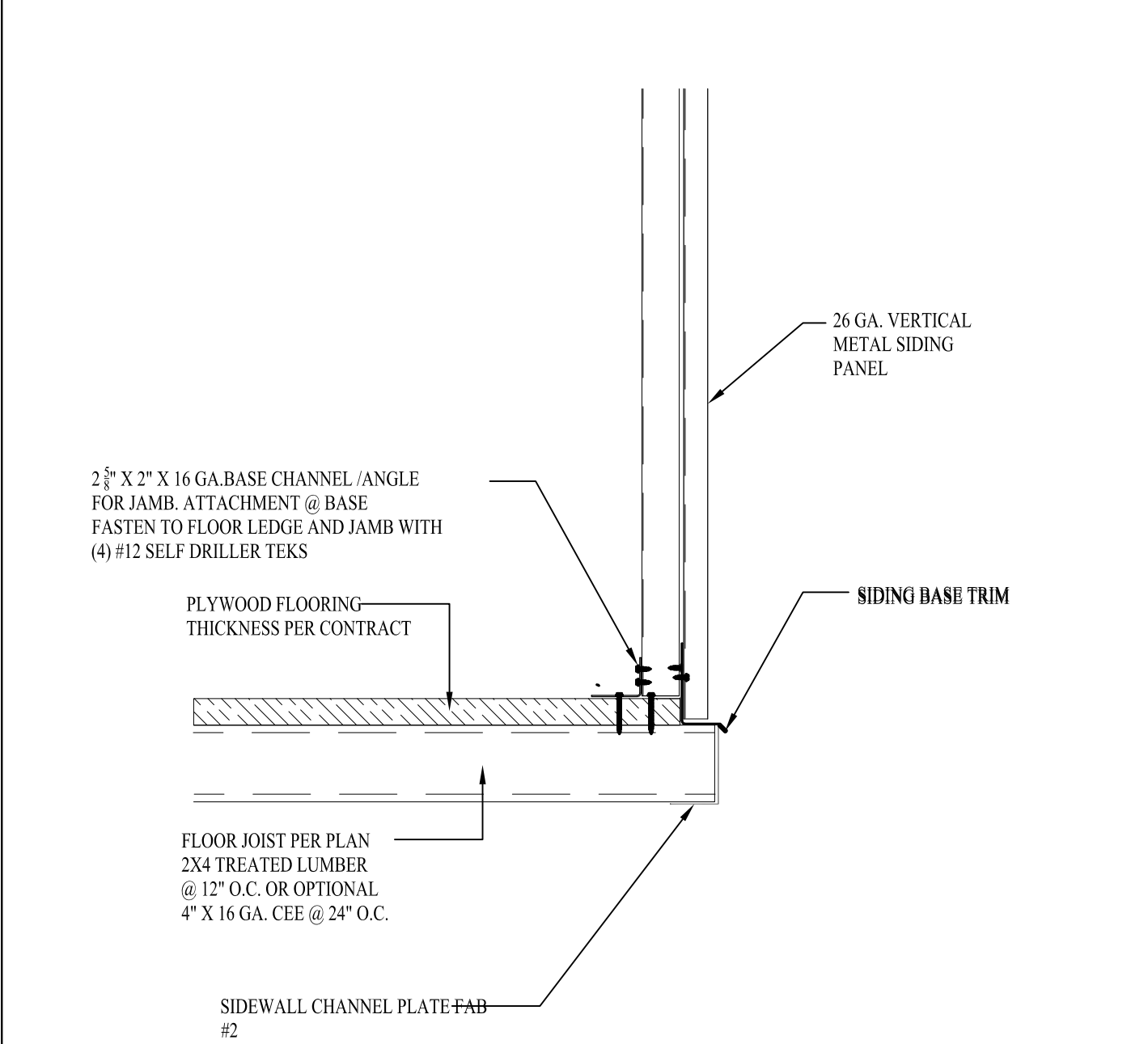
CORNER PIER ASSEMBLY @ MID HEIGHT 1



EAVE TRIM OPTION W/ DOOR HDR 9



SIDEWALL DETAIL 6



SIDING BASE DETAIL 3



RELOCATABLE MODULAR BUILDING DETAILS

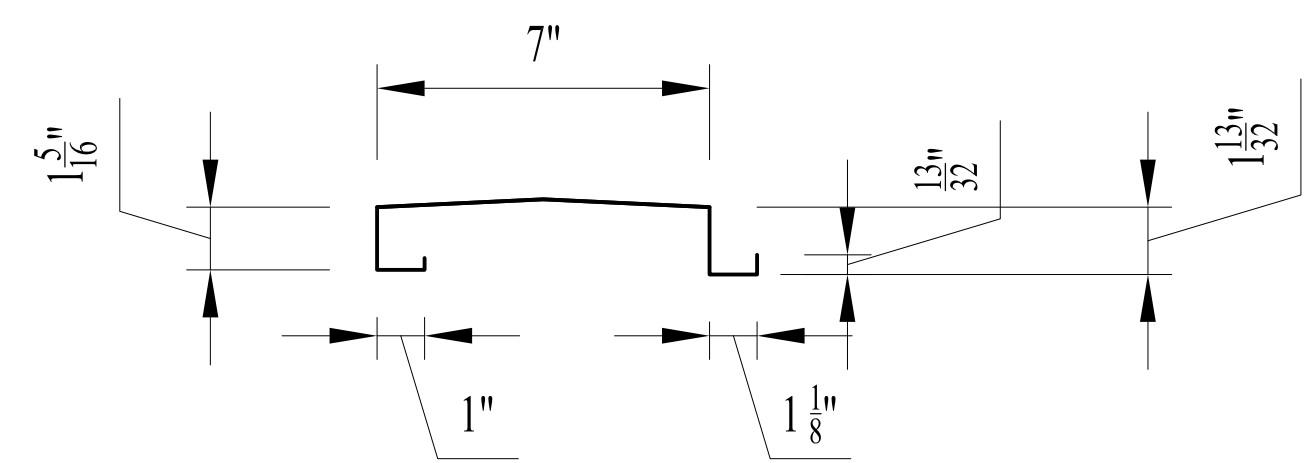
JOB PROGRESS		NO.	DATE	DESCRIPTION
BY	APP	7		
NO.	DATE	DESCRIPTION		
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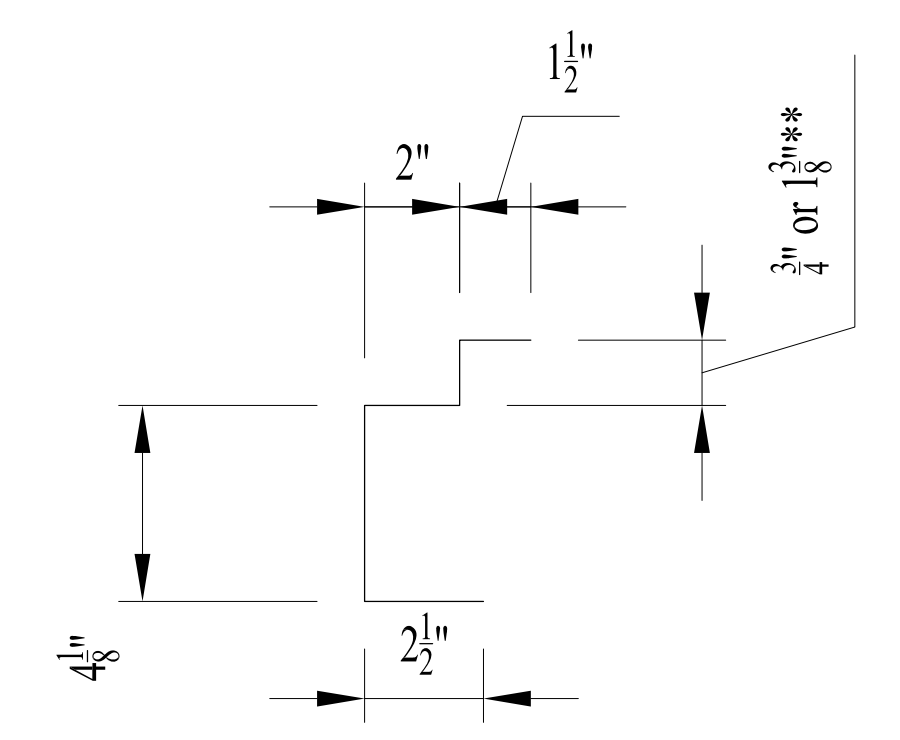
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SHEET SIZE: 24x36

U-HAUL OF THE TOWN OF CLAYTON  
2927 SHADY LANE  
NEENAH, WISCONSIN 54956

DRAWN	DATE
	05/25/2023
SCALE	PER PLAN SHEET
	D1



\*\* DEPENDENT ON DESIRED FLOORING OPTION  
 3/4" PLYWOOD DECKING  
 1 1/4" METAL "CEE" FLOOR PLANK

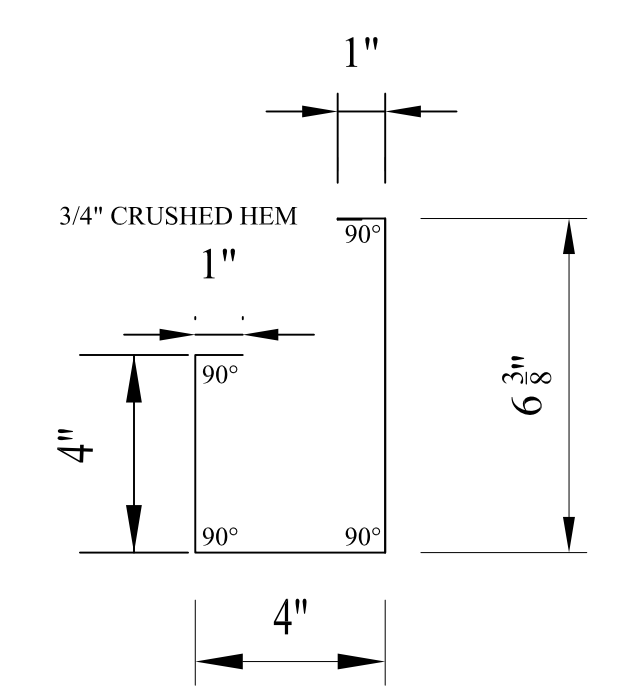


SIDEWALL CHANNEL PLATE

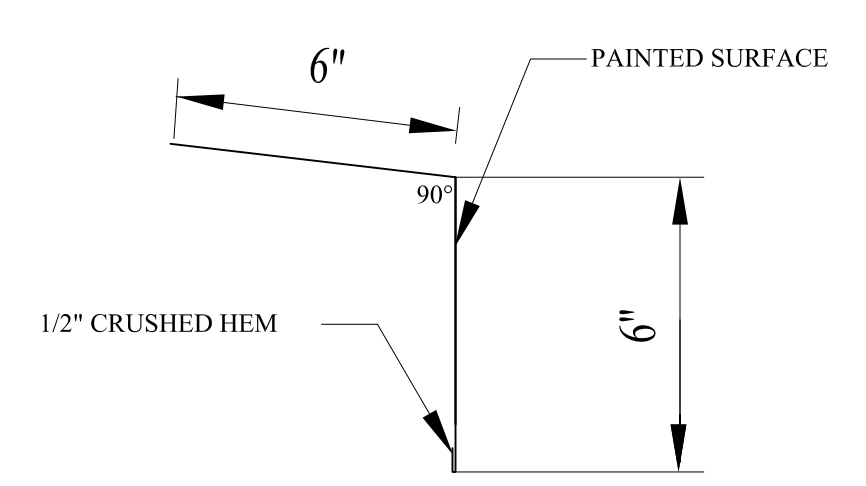
USED @ FULL SHEETED SIDEWALL LOCATIONS

SPECIAL FLOOR CEE PLANK 4

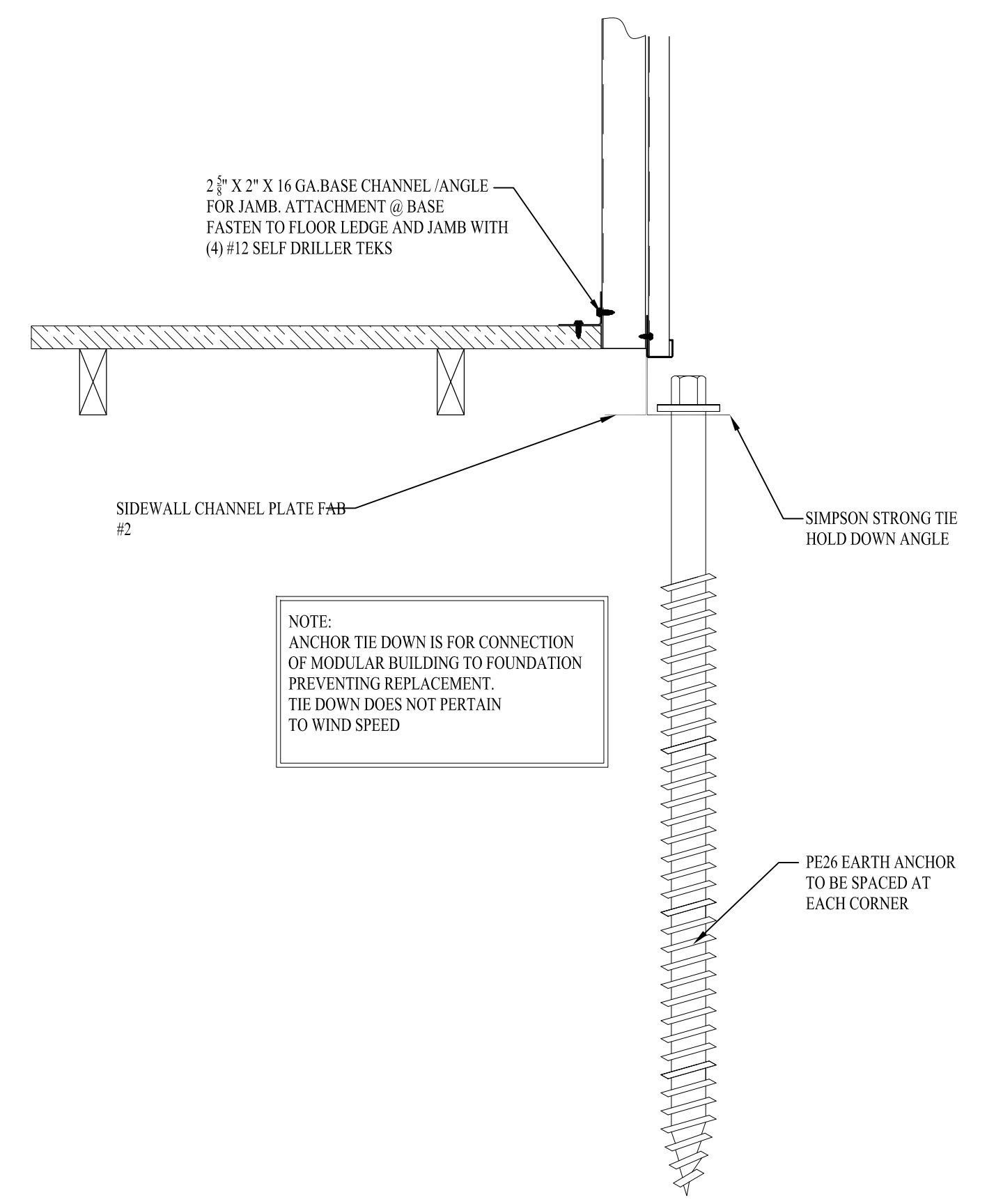
SIDEWALL CHANNEL PLATE FAB #2 2



SPECIAL LOW EAVE GUTTER 6



SPECIAL LOW EAVE TRIM 5



2 1/2" X 2" X 16 GA. BASE CHANNEL / ANGLE FOR JAMB ATTACHMENT @ BASE FASTEN TO FLOOR LEDGE AND JAMB WITH (4)#12 SELF DRILLER TEKS

NOTE: ANCHOR TIE DOWN IS FOR CONNECTION OF MODULAR BUILDING TO FOUNDATION PREVENTING REPLACEMENT. TIE DOWN DOES NOT PERTAIN TO WIND SPEED

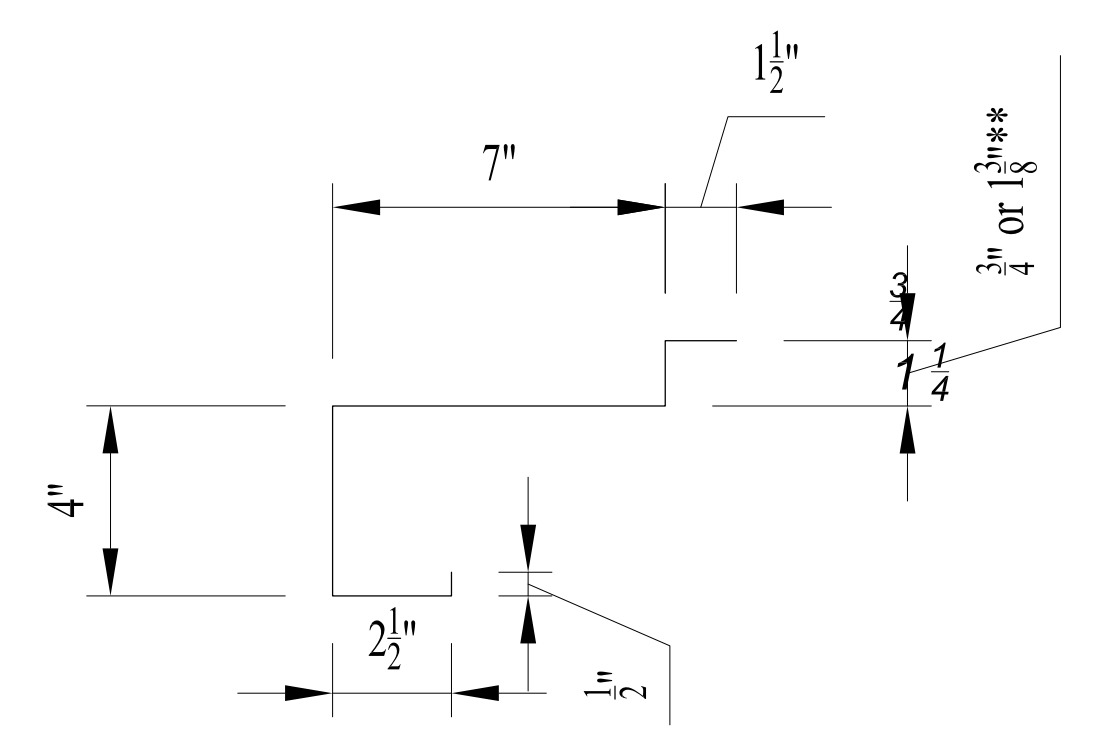
SIDEWALL CHANNEL PLATE FAB #2

SIMPSON STRONG TIE HOLD DOWN ANGLE

PE26 EARTH ANCHOR TO BE SPACED AT EACH CORNER

MODULAR FOUNDATION TIE DOWN ANCHOR 3

\*\* DEPENDENT ON DESIRED FLOORING OPTION  
 3/4" PLYWOOD DECKING  
 1 1/4" METAL "CEE" FLOOR PLANK



DOOR LEDGE CHANNEL CEE PLATE

USED @ DOOR OPENING SIDEWALL LOCATIONS (AND FUTURE OPENING OPTION)

DOOR LEDGE CHANNEL CEE PLATE FAB #1 1

RELOCATABLE MODULAR BUILDING SPECIAL FABs

JOB PROGRESS		NO.	DATE	DESCRIPTION	BY
1	DESCRIPTION	7			
2		8			
3		9			
4		10			
5		11			
6		12			

**KBM, INC.**  
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 SHEET SIZE: 24x36

U-HAUL OF THE TOWN OF CLAYTON  
 2927 SHADY LANE  
 NEEHAH, WISCONSIN 54956

DRAWN  
 DATE: 05/25/2023  
 SCALE  
 PER PLAN SHEET  
**D2**  
 OF SHEETS