

**IMPORTANT:** IN ADDITION TO THESE PLANS (WHICH ALWAYS TAKE PRECEDENCE), YOU SHOULD HAVE THE FOLLOWING FROM ACT BUILDING SYSTEMS:

- CONSTRUCTION PACKAGE
- INSTALLATION MANUALS
- CONSTRUCTION VIDEOS

PLEASE CONTACT YOUR SALES REP IF YOU HAVE NOT RECEIVED THESE PRIOR TO STARTING CONSTRUCTION.

**PROJECT DESIGN CRITERIA**

ROOF DEAD LOAD: 3 psf  
 ROOF COLLATERAL LOAD: 0 psf  
 GROUND SNOW LOAD: 0 psf      Ct = 1.2  
 ROOF SNOW LOAD: 0 psf  
 ROOF LIVE LOAD: 20 psf  
 WIND SPEED: 110 mph  
 WIND EXPOSURE: C  
 Ss: 1.044      Sds: 0.835  
 S1: 0.269      Sd1: 0.370  
 SEISMIC DESIGN CATEGORY: D (short period) D (1-sec period)  
 R transverse: 3.0    R longitudinal: 3.0  
 RISK CATEGORY: II  
 SOIL BEARING PRESSURE: 1500 psf

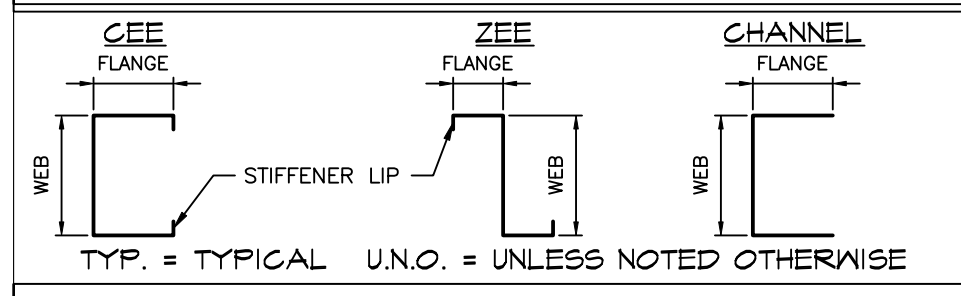
WIND DESIGN OF LATERAL FORCE-RESISTING SYSTEMS IS BASED ON THE DIRECTIONAL DESIGN PROCEDURE OF ASCE 7-16, CHAPTER 27

SEISMIC DESIGN OF LATERAL FORCE-RESISTING SYSTEMS ARE AS FOLLOWS:

- TRANSVERSE: ORDINARY STEEL MOMENT FRAME (SEISMIC DESIGN IS BASED ON ASCE 07-16, SECTIONS 12.1 - 12.13)
- LONGITUDINAL: ORDINARY STEEL BRACED FRAME (SEISMIC DESIGN IS PERFORMED USING THE SIMPLIFIED DESIGN PROCEDURE (ASCE 07-16, SECTION 12.14).

DESIGN BASE SHEAR: IS SHOWN ON CALCULATION SHEET M2.

**COMPONENT DIAGRAM**



**FOUNDATION DETAIL KEYS**

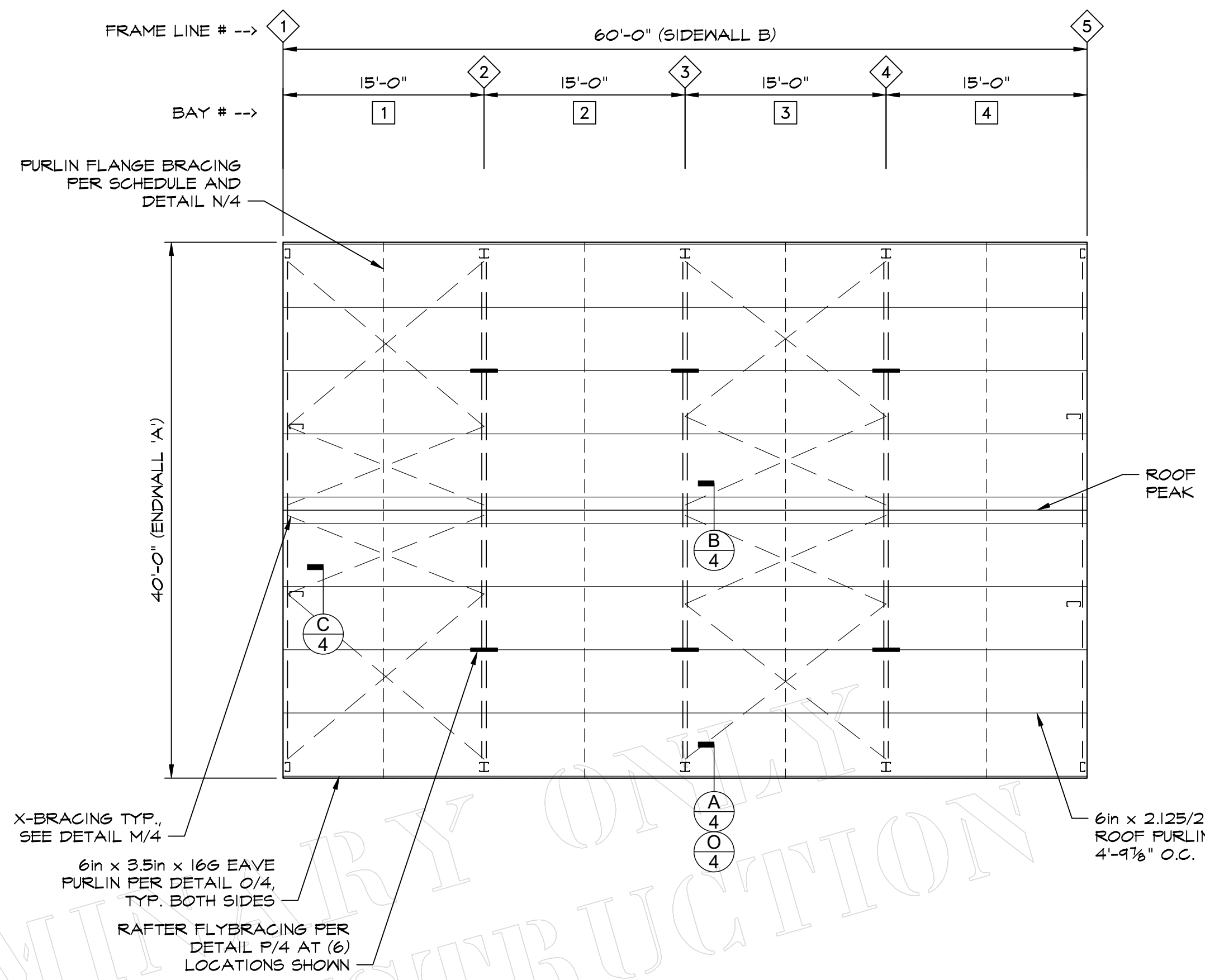
(A) ENDWALL COLUMN (SEE DETAIL C/4 FOR TOP CONNECTION AND G/4 FOR BASE CONNECTION)

**WALL OPENING SCHEDULE**

DOOR	WIDTH	HEIGHT	OPENING TYPE	HEADER GIRT	OPENING JAMBS
1	12'-0"	14'-0"	ROLL UP DOOR	SINGLE	C6X4X16
2-4	3'-0"	6'-8"	PERSONNEL DOOR	SINGLE	CHN6X3X16
5-11	6'-0"	4'-0"	WINDOW	SEE NOTE #4	CHN6X3X16
12-18	6'-0"	4'-0"	WINDOW	SINGLE	CHN6X3X16
19-20	6'-0"	4'-0"	WINDOW	DOUBLE	CHN6X3X16

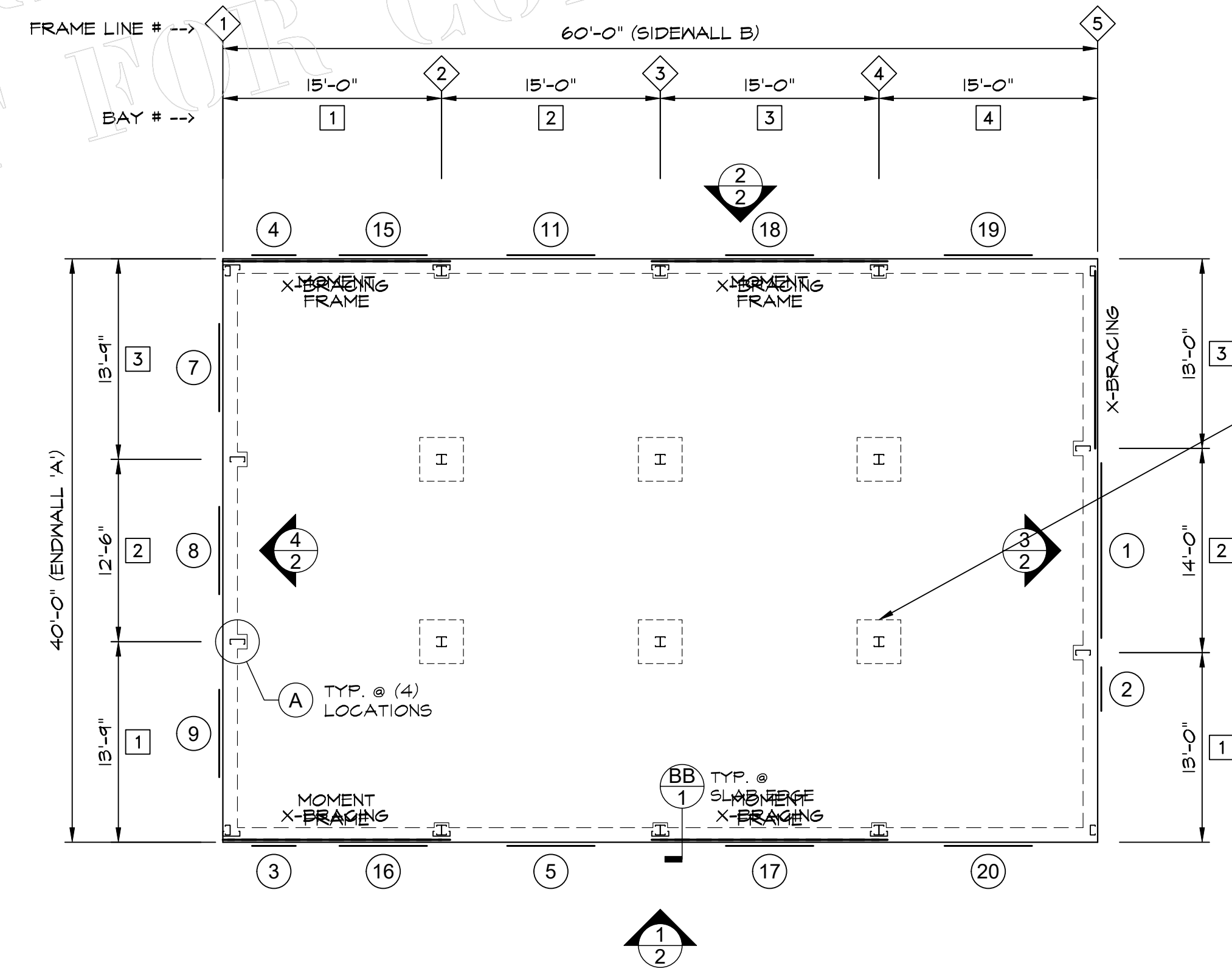
NOTES:

- 1) JAMB MEMBERS SHOWN AS "CHN" ARE CHANNEL MEMBERS (WITHOUT STIFFENER LIPS) AND THOSE SHOWN AS "C" ARE CEE MEMBERS. FIRST NUMBER IS WEB DEPTH IN INCHES, SECOND NUMBER IS FLANGE WIDTH IN INCHES, AND THIRD NUMBER IS MATERIAL THICKNESS (GAUGE).
- 2) SEE DETAILS J/4 AND K/4 FOR OPENING FRAMING INFORMATION.
- 3) SIZE OF HEADER GIRT MEMBER TO BE SAME AS SIDEWALL OR ENDWALL GIRT, AS APPROPRIATE, PER ELEVATIONS. AT WINDOWS, INSTALL HEADER GIRT SPECIFIED ABOVE AND BELOW WINDOWS, U.N.O.
- 4) AT OPENINGS NOTED, INSTEAD OF ATTACHING DOOR JAMBS TO HEADER GIRT PER DETAIL L1/4 ATTACH DOOR JAMBS TO UNDERSIDE OF MEZZANINE GIRDER OR MEZZANINE EDGE JOIST OR ENDWALL RAFTER PER DETAIL L2/4.
- 5) ALL OPENINGS AND ACCESSORIES SHALL BE CAPABLE OF SUPPORTING ALL WIND PRESSURES PERPENDICULAR TO THE SURFACE (GENERATED BY WINDS AT THE SPEED AND EXPOSURE INDICATED ABOVE) BY SPANNING BETWEEN THE JAMBS.



**2 ROOF FRAMING PLAN**

SCALE: 1/8" = 1'-0"



**1 FOUNDATION PLAN**

SCALE: 1/8" = 1'-0"

NOTE: USE 1/2" x 5" DEWALT 'SCREW-BOLT' ANCHOR IN 5 1/2" DEEP HOLES AT ANCHOR LOCATIONS PER BASE DETAILS F/4 AND U/4, INSTALLED PER ICC REPORT ESR-3009, SECTION 4.3.

36" x 36" x 10" DEEP THICKENED SLAB WITH (3) - #4 BARS EACH WAY, 3" CLR. FROM BOTTOM, TYP. AT MEZZANINE POSTS. ALIGN WITH ENDWALL 'A' COLUMN LOCATIONS.

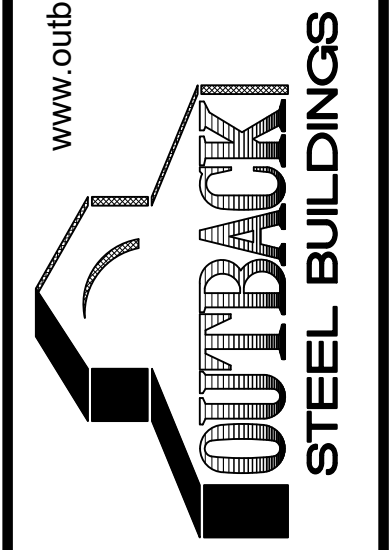
NOTE: SEE "TYP. FRAME CROSS-SECTION" DETAIL ON SHEET 2 FOR SPECIFIC FRAME DETAIL INFORMATION.

NOTE: EXCEPT AT DOOR OPENINGS, INSTALL 106 FORMED BASE TO FOUNDATION (FOR ATTACHMENT OF BOTTOM OF WALL SIDING) WITH 1/4in X 1in MUSHROOM HEAD SPIKE ANCHORS AT 48" O.C. (6" MAX. FROM ANY END).

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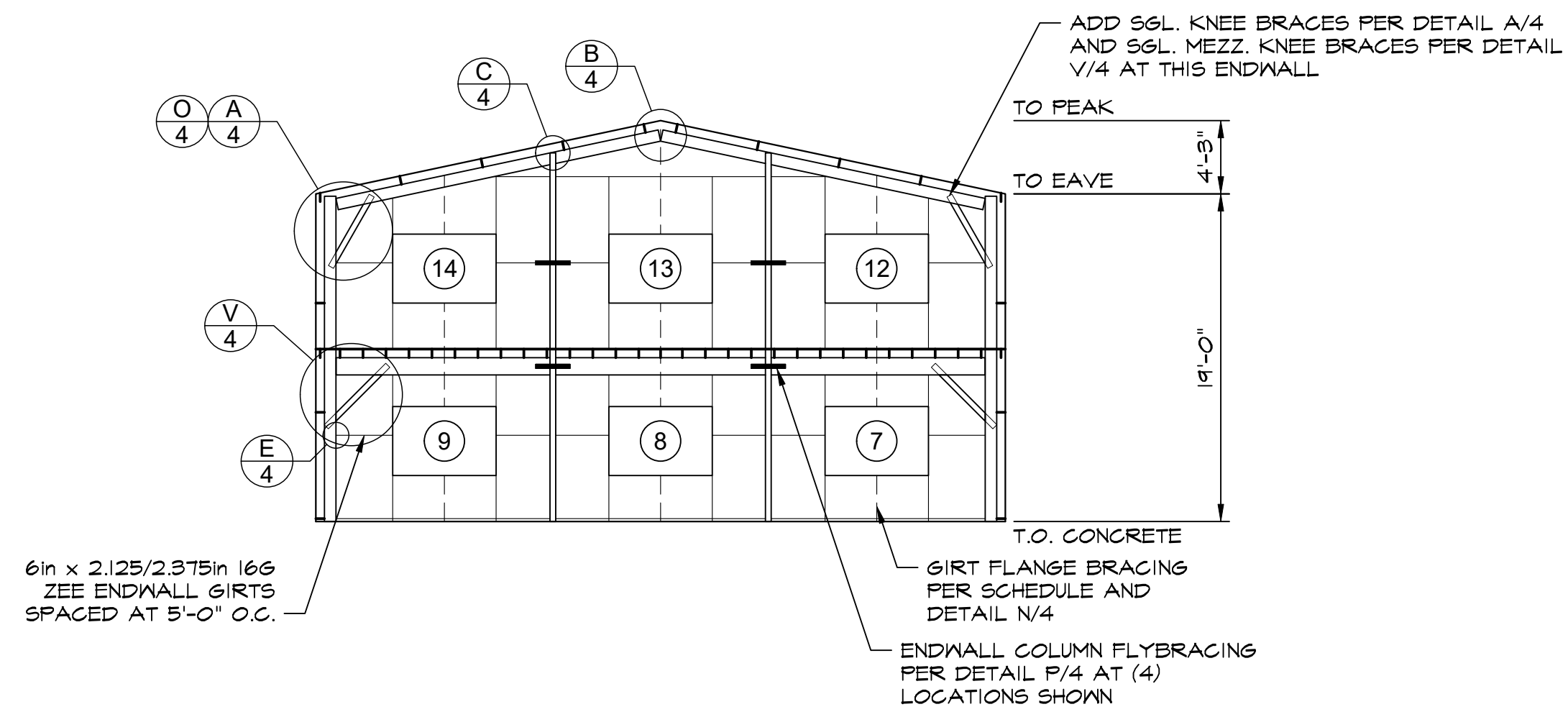
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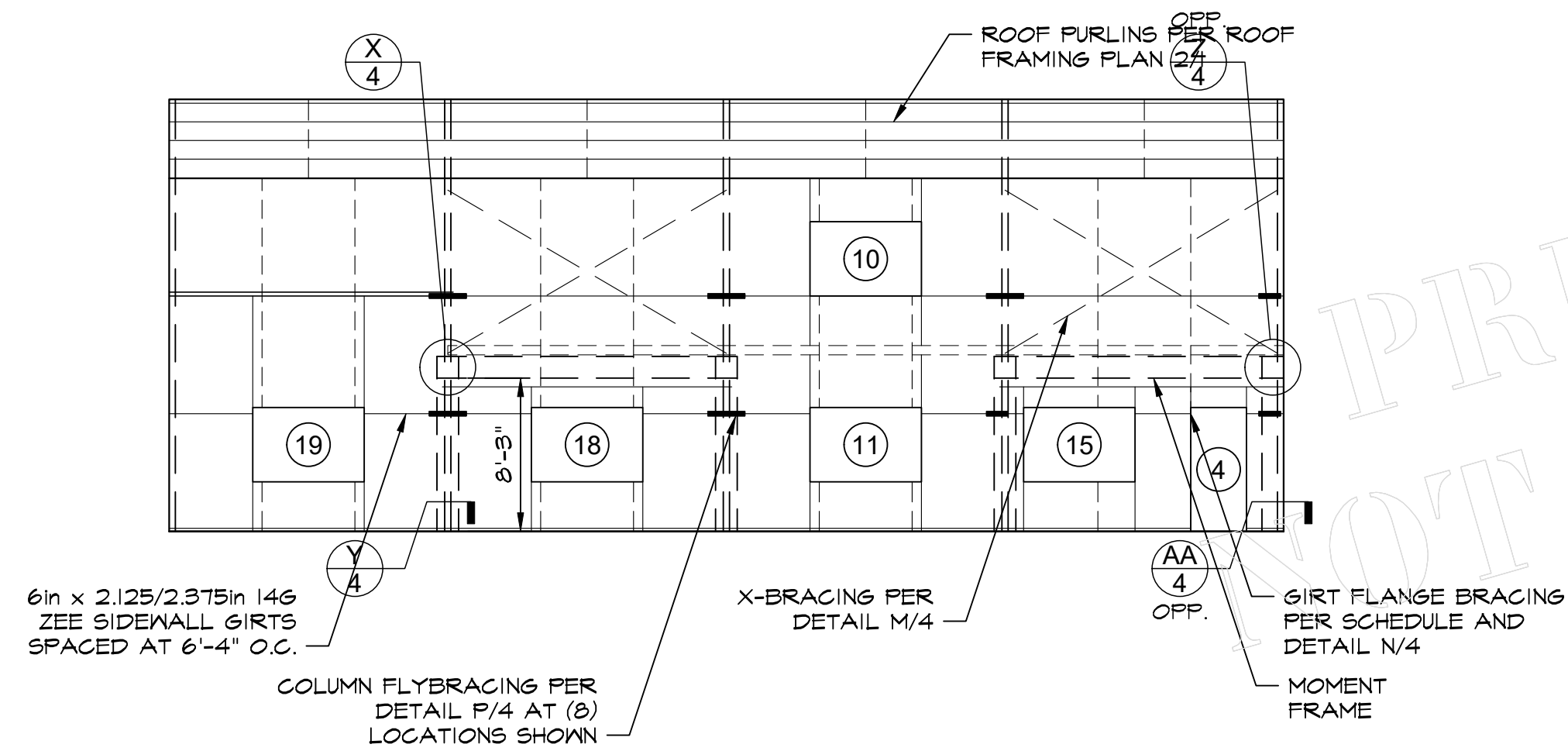
SHEET **1** OF **3**



**4 ENDWALL 'A' INTERIOR ELEVATION**

SCALE: 1/8" = 1'-0"

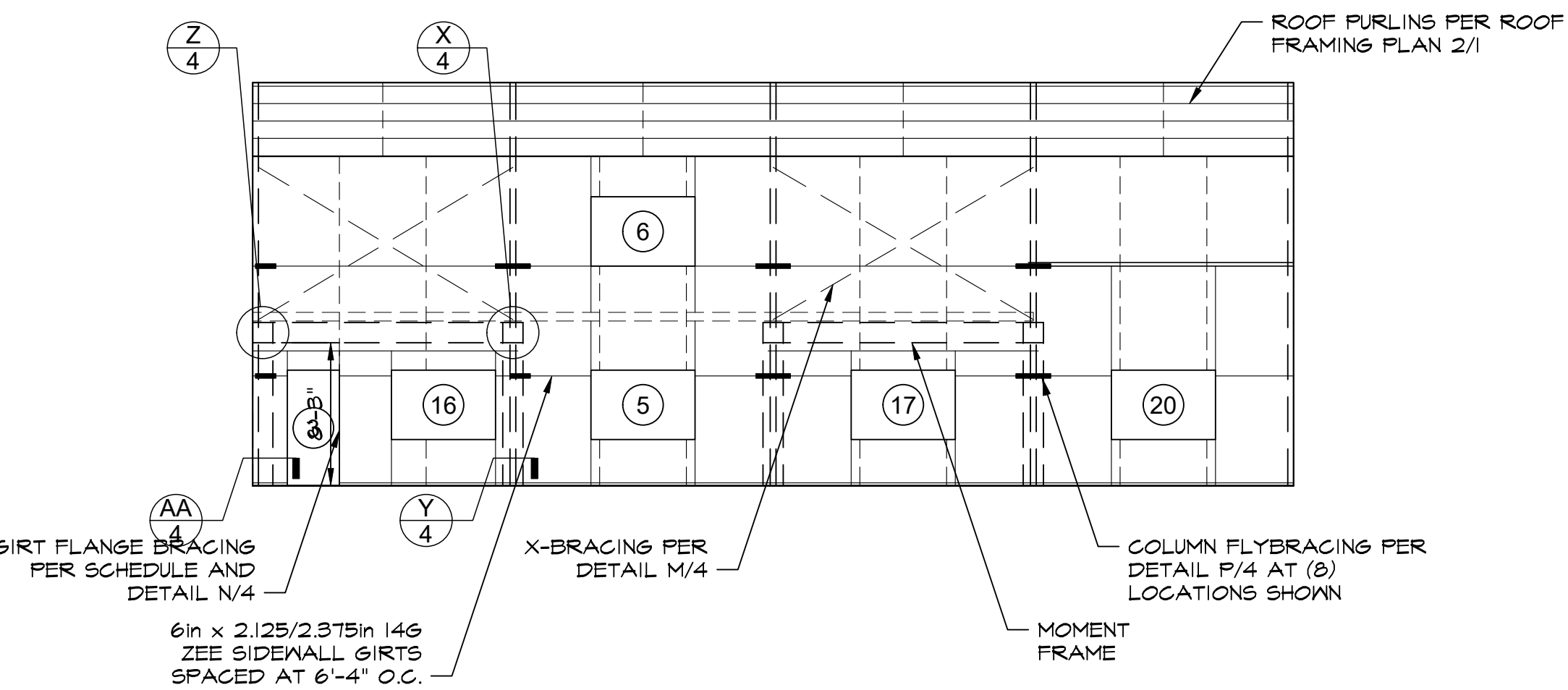
FRAME #1



**2 SIDEWALL 'B' EXTERIOR ELEVATION**

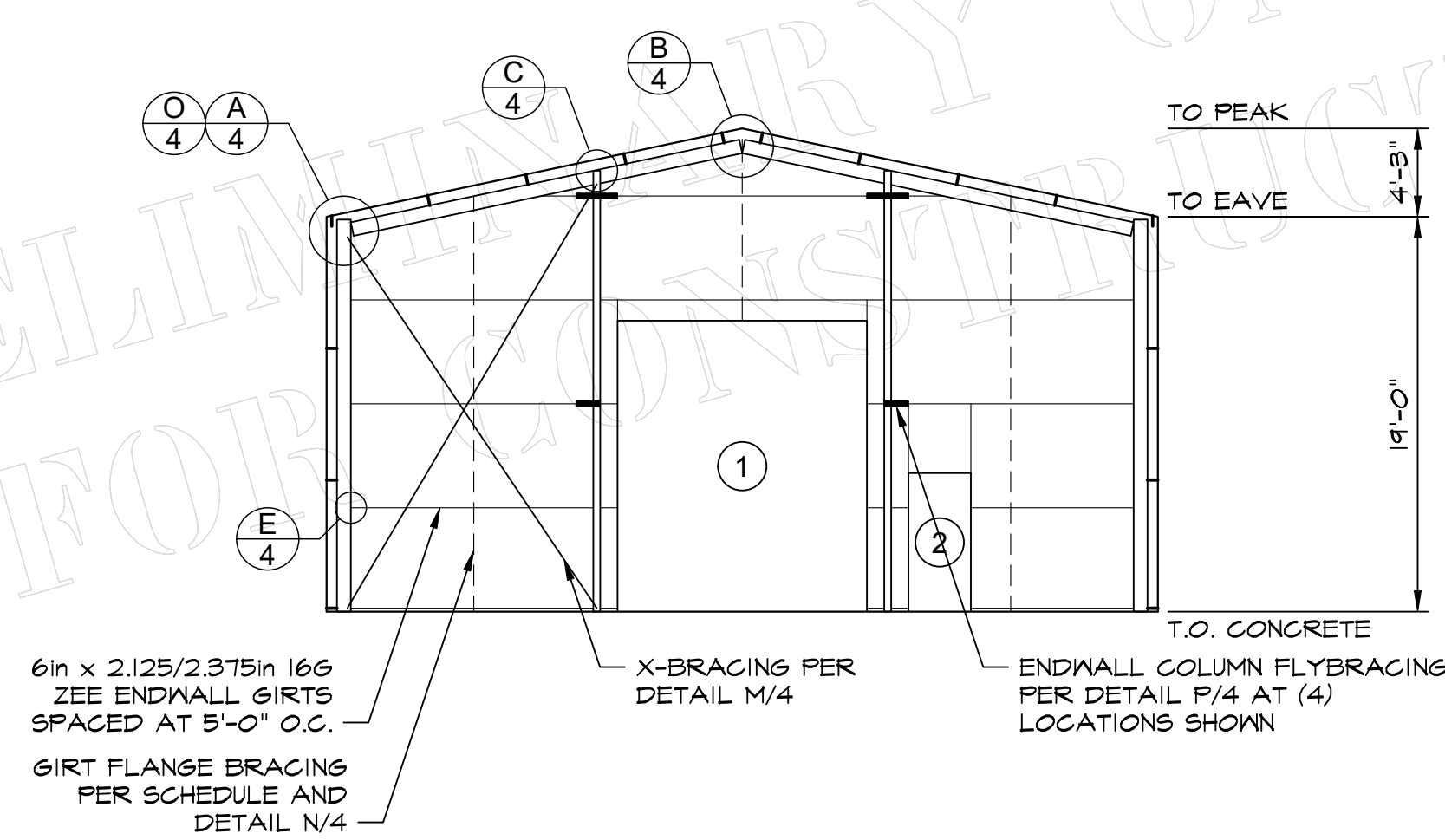
SCALE: 1/8" = 1'-0"

FRAME #1



**1 SIDEWALL 'A' EXTERIOR ELEVATION**

SCALE: 1/8" = 1'-0"

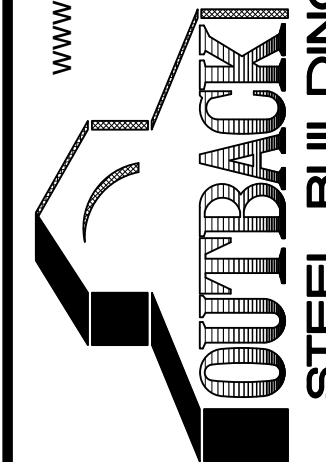


**3 ENDWALL 'B' INTERIOR ELEVATION**

SCALE: 1/8" = 1'-0"

FRAME #5

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SHEET

**2**  
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**3**

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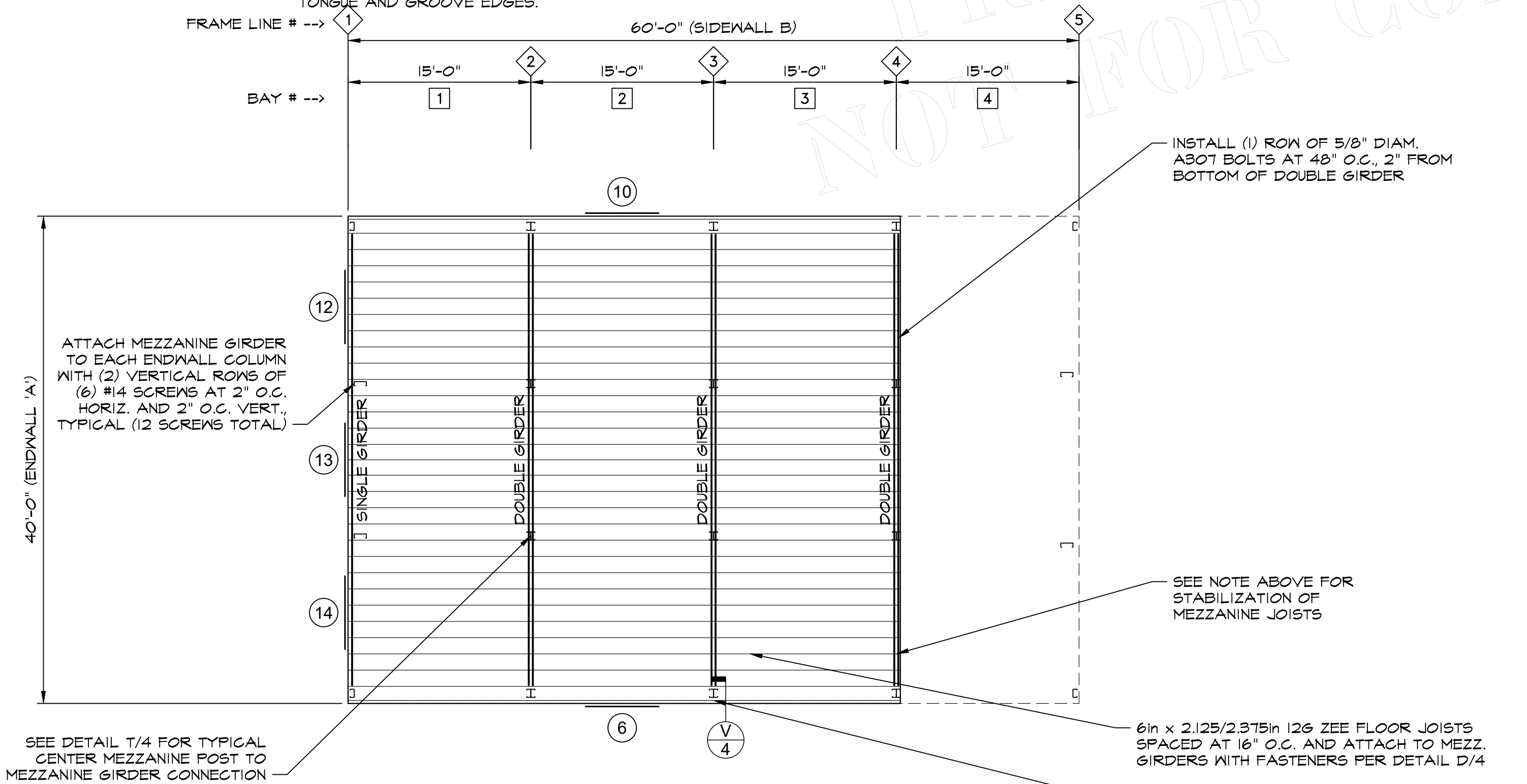
NOTE: STAIR DESIGN, MATERIALS, AND INSTALLATION TO BE PROVIDED BY OTHERS.

DESIGN, MATERIALS, AND INSTALLATION OF ALL GUARDRAILS OR WALLS AT EXPOSED EDGES OF MEZZANINE FLOOR TO BE PROVIDED BY OTHERS.

NOTE: SEE DETAIL W/4 FOR FLOOR FRAMING AROUND FLOOR OPENING FOR STAIRWAY. STAIR TO BE LOCATED BY CUSTOMER.

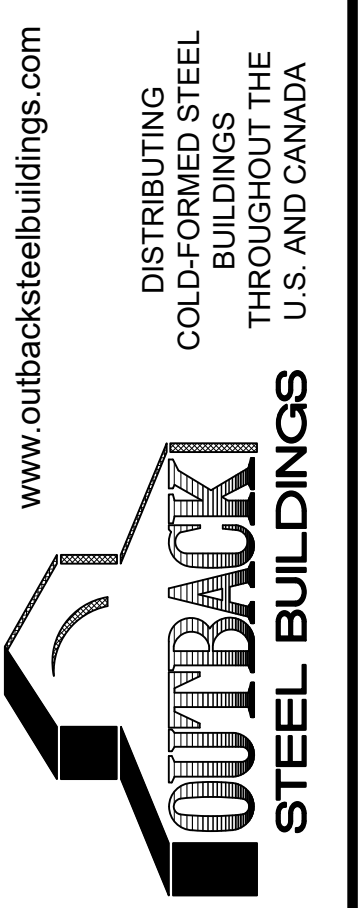
NOTE: INSTALL 3/4in 48/24 MIN. CDX PLYWOOD AT MEZZANINE FLOOR. ATTACH TO STEEL FRAMING WITH #10 MIN. SCREWS AT 6" O.C. AT PANEL EDGES, 12" O.C. IN FIELD. STAGGER ALL PLYWOOD JOINTS PARALLEL TO FLOOR JOISTS. SUPPORT ALL EDGES WITH JOIST MATERIAL OR USE PLYWOOD WITH TONGUE AND GROOVE EDGES.

MEZZANINE JOIST STABILIZATION:  
 1) NEAR CENTER OF BUILDING AT EACH MEZZANINE GIRDER, ATTACH MIN. 1.5in X 1.66 STRAP WITH (2) #10 SCREWS TO GIRDER ADJACENT TO ONE FLOOR JOIST, RUN STRAP UP AND OVER TOP OF A MIN. OF TWO JOISTS, THEN BACK DOWN TO GIRDER AT ADJACENT JOIST AND ATTACH STRAP WITH (2) #10 SCREWS TO MEZZANINE GIRDER. INSTALL #10 SCREW THRU STRAP INTO THE TOP OF EACH JOIST CROSSED.  
 2) INSTALL 4in X 2in (VERTICAL : HORIZ.) 166 ANGLE AT ENDS OF JOISTS (FULL WIDTH OF MEZZANINE) AT EDGES OF MEZZANINE FLOOR (2 PLACES) AND FASTEN TO TOP FLANGE OF FLOOR JOIST ENDS WITH #10 SCREW INTO EACH JOIST.



**1** MEZZANINE FLOOR FRAMING PLAN  
**3** SCALE: 1/8" = 1'-0" MEZZ FLOOR LIVE LOAD: 50 psf

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SHEET  
**3**  
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