

AMERICAN BUILDINGS COMPANY  
A Nucor Company

## NOTES AND SPECIFICATIONS

### BUILDING ERECTION NOTES

1) THE GENERAL CONTRACTOR AND/OR ERECTOR IS RESPONSIBLE TO SAFELY AND PROPERLY ERECT THE METAL BUILDING SYSTEM IN CONFORMANCE WITH THESE DRAWINGS, OSHA REQUIREMENTS, AND MBMA STANDARDS PERTAINING TO PROPER ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE CORRECT USE OF TEMPORARY GUYS AND BRACING WHERE NEEDED FOR SQUARING, PLUMBING, AND SECURING THE STRUCTURAL AND SECONDARY FRAMING. SECONDARY WALL FRAMING MEMBERS (GIRTS OR BAR JOISTS) ARE NOT DESIGNED TO FUNCTION AS A WORK PLATFORM OR PROVIDE SAFETY TIE OFF ATTACHMENT IN ACCORDANCE WITH OSHA REQUIREMENTS. SECONDARY ROOF FRAMING MEMBERS (PURLINS OR BAR JOISTS) ARE NOT DESIGNED TO PROVIDE SAFETY TIE OFF ATTACHMENT IN ACCORDANCE WITH OSHA REQUIREMENTS.

2) ALL HIGH STRENGTH BOLTS ARE TYPE ASTM A325 AND ARE TO BE INSTALLED TO THE "SNUG-TIGHT" CONDITION AS DEFINED BY THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, 2004 EDITION, SECTION 8.1, UNLESS NOTED OTHERWISE. ALSO, NOTE THAT BOLTS IN STANDARD HOLES DO NOT REQUIRE WASHERS PER THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, SECTION 6.

3) ALL A307 MACHINE BOLTS ARE TO BE BROUGHT TO A "SNUG TIGHT" CONDITION TO ENSURE THAT THE MATERIALS IN THE JOINT ARE BROUGHT INTO GOOD CONTACT WITH EACH OTHER.

4) WASHERS ARE REQUIRED AT ALL SLOTTED CONNECTIONS AS FOLLOWS:  
=HOLE TO SLOT CONNECTION, ONE WASHER REQUIRED ON SLOTTED SIDE.  
=SLOT TO SLOT CONNECTION, TWO WASHERS REQUIRED, ONE ON EACH SIDE OF THE CONNECTION. HOWEVER AT LAPPED ZEE MEMBERS, WHETHER PURLINS OR GIRTS, NO WASHERS ARE REQUIRED IN THE 8-BOLT LAPPED REGION.

5) THE METAL BUILDING SUPPLIER SHALL BE NOTIFIED PRIOR TO ANY FIELD MODIFICATIONS. MODIFICATIONS SHALL BE APPROVED BY THE METAL BUILDING SUPPLIER BEFORE WORK IS UNDERTAKEN.

6) ALL WELDING MUST BE PERFORMED BY AWS QUALIFIED WELDERS FOR THE WELDING PROCESSES AND POSITIONS INDICATED. ALL WORK MUST BE COMPLETED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE AWS SPECIFICATIONS. WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS MUST BE 70 KSI STEEL AND LOW HYDROGEN CONTENT.

7) COMMON ABBREVIATIONS:	
a) TYP UNO-TYPICAL UNLESS NOTED OTHERWISE	f) SIM.-SIMILAR
b) SLV-SHORT LEG VERTICAL	g) NIC-NOT IN CONTRACT
c) LLV-LONG LEG VERTICAL	h) SL-STEEL LINE
d) NS & FS-NEAR SIDE AND FAR SIDE	i) N/A-NOT APPLICABLE
e) O.A.L.-OVERALL LENGTH	j) MBS-METAL BUILDING SUPPLIER

8) CONSTRUCTION LOADS SHALL NOT BE PLACED ON ANY STRUCTURAL STEEL FRAMEWORK UNLESS SUCH FRAMEWORK IS SAFELY BOLTED, WELDED, OR OTHERWISE ADEQUATELY SECURED.

9) PURLINS AND GIRTS SHALL NOT BE USED AS AN ANCHORAGE POINT FOR A FALL ARREST SYSTEM UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE METAL BUILDING SUPPLIER.

10) PURLINS MAY ONLY BE USED AS A WALKING/WORKING SURFACE WHEN INSTALLING SAFETY SYSTEMS AFTER ALL PERMANENT BRIDGING HAS BEEN INSTALLED AND FALL PROTECTION IS PROVIDED.

11) CONSTRUCTION LOADS MAY BE PLACED ONLY WITHIN A ZONE THAT IS WITHIN 8 FEET OF THE CENTER-LINE OF THE PRIMARY SUPPORT MEMBER. CFR BUNDLES SHOULD BE PLACED DIRECTLY OVER THE RIGID FRAMES.

12) ALL LIFTING DEVICES MUST MEET OSHA OR MSHA STANDARDS AND IN NO CASE IS IT ACCEPTABLE TO USE STRUCTURAL MEMBERS SUPPLIED BY THE MBS AS A SPREADER BAR OR LIFTING DEVICE.

### GENERAL DESIGN NOTES AND MATERIAL SPECIFICATIONS

1) ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS ARE DESIGNED IN ACCORDANCE WITH THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS-ALLOWABLE STRESS DESIGN", NINTH EDITION, OR THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", THIRTEENTH EDITION, AS REQUIRED BY THE SPECIFIED BUILDING CODE.

2) ALL WELDING OF STRUCTURAL STEEL IS BASED ON AWS D1.1 "STRUCTURAL WELDING CODE", LATEST EDITION.

3) ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

4) ALL WELDING OF COLD FORMED STEEL IS BASED ON AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL", LATEST EDITION.

5) IF JOISTS ARE INCLUDED WITH THIS PROJECT, THEY ARE SUPPLIED AS A PART OF THE SYSTEMS-ENGINEERED METAL BUILDING AND ARE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1926.758 OF THE OSHA SAFETY STANDARD FOR STEEL ERECTION, DATED JANUARY 18, 2001.

### 6) MATERIAL SPECIFICATIONS:

#### PLATE AND FLANGE MATERIAL:

5"-12" WIDE & THRU 1" THICK \_\_\_\_\_ A529, GRADE 55

OTHERS \_\_\_\_\_ A572 GRADE 50 OR A36

BUILT-UP STRUCTURAL WEB MATERIAL \_\_\_\_\_ A1011 SS (OR HSLAS CL1) GR 55

HOT-ROLLED STRUCTURAL \_\_\_\_\_ A36 OR A572 GRADE 50 OR A992 GRADE 50

STRUCTURAL TUBE \_\_\_\_\_ A500 GRADE C (46 KSI)

STRUCTURAL PIPE \_\_\_\_\_ A500 GRADE B (42 KSI)

COLD-FORMED STRUCTURAL \_\_\_\_\_ A1011 OR A1039 SS (OR HSLAS CL1) GR 55

RPB ROOF PANELS \_\_\_\_\_ A792 GRADE 80

STANDING SEAM ROOF PANELS \_\_\_\_\_ A792 GRADE 50, CLASS 1

R-PANEL AND A-PANEL SIDING \_\_\_\_\_ A653 GRADE 80, CLASS 1 OR

A792 GRADE 80, CLASS 1

ROD BRACING \_\_\_\_\_ A529 GRADE 50

CABLE BRACING \_\_\_\_\_ A475 COATING CLASS A, GRADE EHS, 7-WIRE

WELDS \_\_\_\_\_ AWS D1.1 LATEST EDITION

HIGH-STRENGTH BOLTS \_\_\_\_\_ A325 TYPE 1 HEAVY HEX OR

A490 TYPE 1 HEAVY HEX

MACHINE BOLTS \_\_\_\_\_ A-307 GRADE A HEX

PROJECT NUMBER: 1

PROJECT NAME: GROUND BREAKERS WHSE

PROJECT LOCATION: Pikeville, KY COUNTY: Pike

CUSTOMER: STEEL STRUCTURES, INC. Hurricane, WV



## PROJECT LOADS

DESIGN CODE: KBC 2018 BUILDING END USE: 3B

ROOF LIVE LOAD: 20 PSF MBMA OCC. CLASS: II - Standard Buildings

GROUND SNOW LOAD: 20 PSF SNOW EXP. FACTOR, Ce: 1  
SNOW IMPORTANCE FACTOR, Is: 1

WIND: 115 WIND IMPORTANCE FACTOR, Iw: 1  
EXPOSURE: C WITHIN HURRICANE COASTLINE  YES  NO

UL 90  YES  NO RAIN INTENSITY (in/hr) N/A

SEISMIC INFORMATION Ss:0.254, S1:0.082

Design Sds/Sd1: \_\_\_\_\_ Site Class: D

Seismic Imp. Factor Ie: 1 Seismic Design Category: \_\_\_\_\_

Analysis Procedure: Equivalent Lateral Force Method

Basic SFRS:

### NOTES:

1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILINGS, ETC., ARE SUSPENDED FROM ROOF MEMBERS, CONSULT THE M.B.S. IF THESE CONCENTRATED LOADS EXCEED 200 POUNDS, OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.

2) THE DESIGN OF STRUCTURAL MEMBERS SUPPORTING GRAVITY LOADS IS CONTROLLED BY THE MORE CRITICAL EFFECT OF ROOF LIVE LOAD OR ROOF SNOW LOAD, AS DETERMINED BY THE APPLICABLE CODE.

BUILDING	
	Warehouse
ROOF DEAD (PSF):	2.6
PRI. COL. (PSF):	5
SEC. COL. (PSF):	5
SNOW Ct:	1
SNOW Cs:	
ROOF SNOW (PSF):	20
WIND ENCLOSURE:	Enclosed
GCpi:	
SEISMIC R:	
SEISMIC Cs:	
BASE SHEAR (KIPS):	

PROJECT NAME:

GROUND BREAKERS WHSE

PIKEVILLE, KY

CUSTOMER NAME:

STEEL STRUCTURES, INC.

HURRICANE, WV

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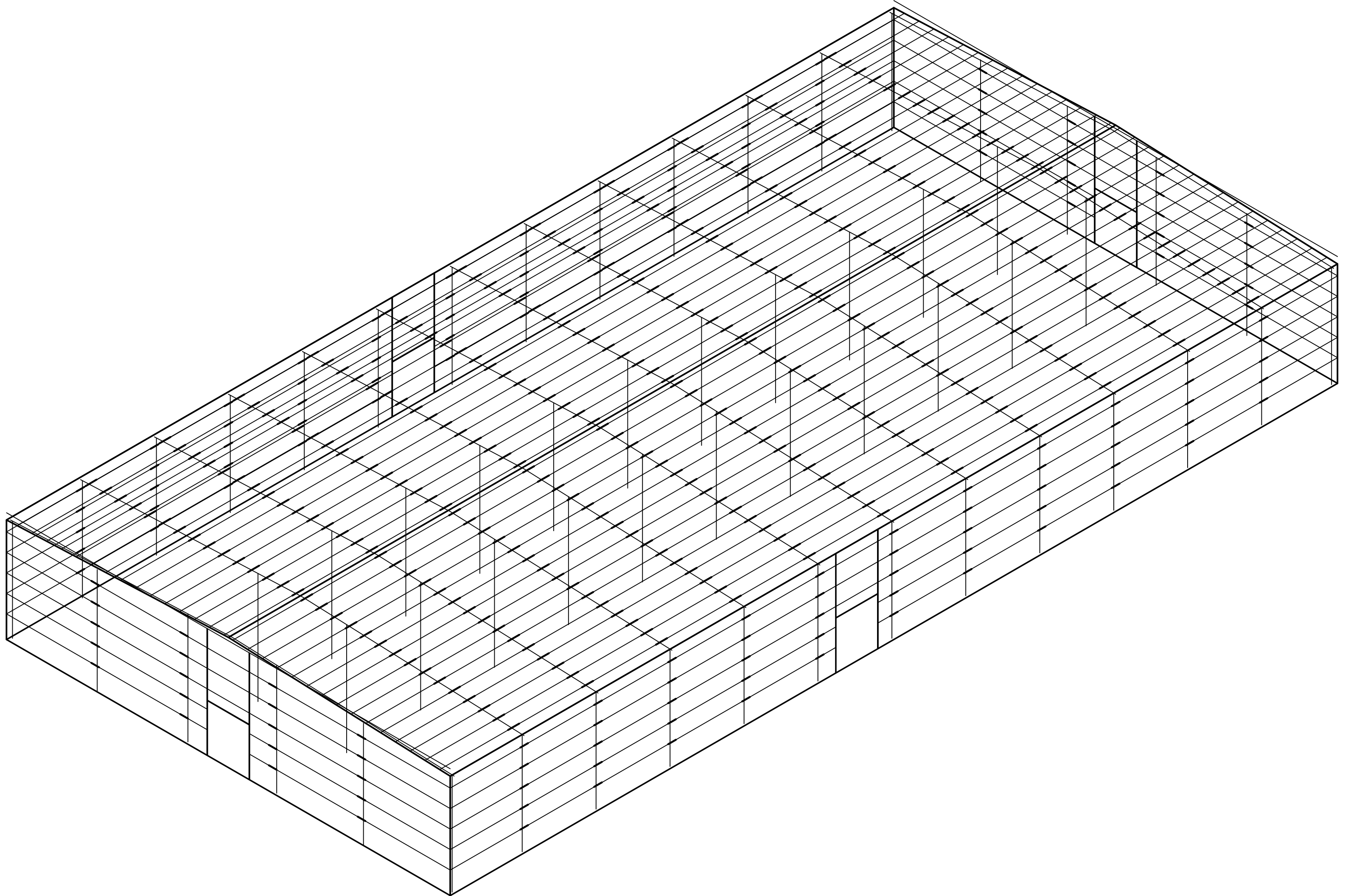
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PRELIMINARY COVERSHEET DRAWING

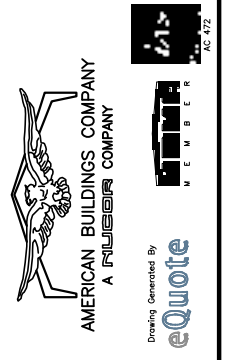
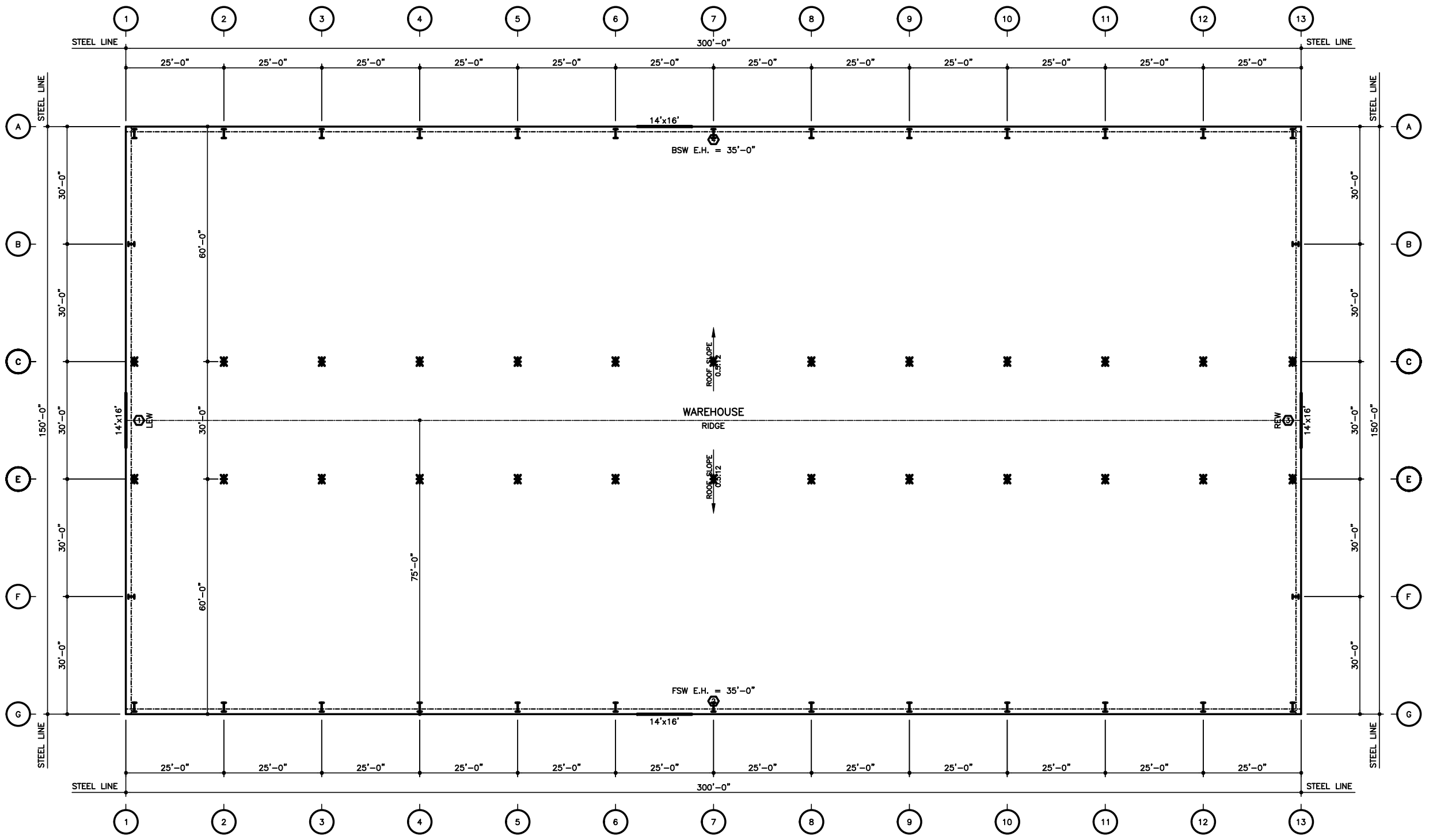
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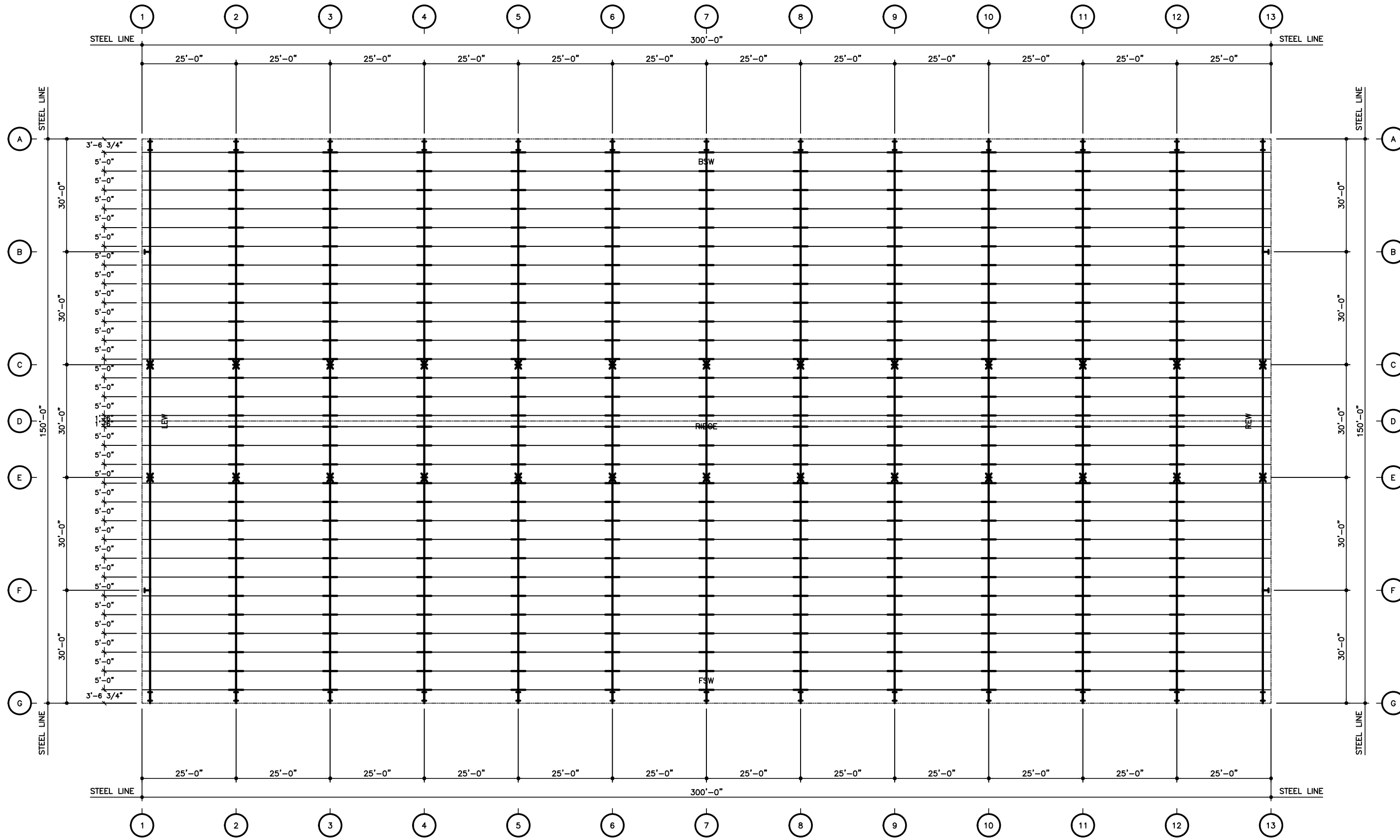
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ID	LINER TYPE	DIST. FROM LEFT	BOTTOM OF PANEL AFF	TOP OF PANEL AFF	LENGTH
1	FULL WIDTH	0'-0"	0'-0"	8'-0"	FULL WIDTH
2	FULL WIDTH	0'-0"	0'-0"	8'-0"	FULL WIDTH
3	FULL WIDTH	0'-0"	0'-0"	8'-0"	FULL WIDTH
4	FULL WIDTH	0'-0"	0'-0"	8'-0"	FULL WIDTH



PROJECT NAME:  
GROUND BREAKERS WHSE  
PIKEVILLE, KY  
CUSTOMER NAME:  
STEEL STRUCTURES, INC.  
HURRICANE, WV

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SHEET TITLE:  
PRELIMINARY FLOOR PLAN  
SHEET NUMBER:  
FP1  
6/17/2020 8:44 AM  
QUOTE NUMBER:  
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Column locations marked with "\*" are designated as Most Economical (Pipe, Tube, or I-Shape) and will be determined at final design.



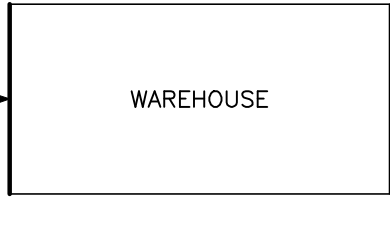
**WAREHOUSE ROOF FRAMING PLAN**



PROJECT NAME:  
**GROUND BREAKERS WHSE**  
 PIKEVILLE, KY  
 CUSTOMER NAME:  
**STEEL STRUCTURES, INC.**  
 HURRICANE, WV

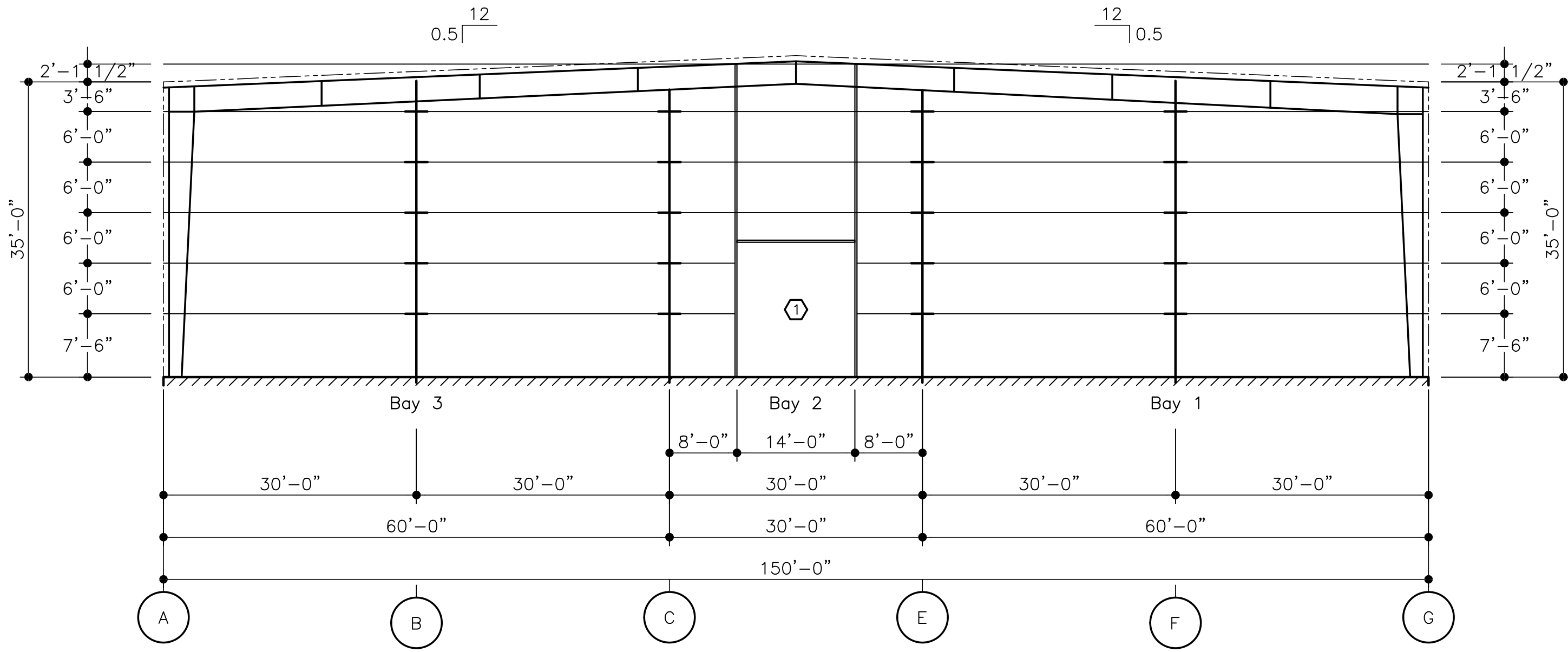
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 SHEET NUMBER:  
**RF1**  
 QUOTE NUMBER:  
**1**  
 DATE:  
 6/17/2020 8:44 AM

Column locations marked with "\*" are designated as Most Economical (Pipe, Tube, or I-Shape) and will be determined at final design.



WAREHOUSE

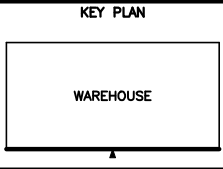
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1	1	14'-0"	16'-0"	0'-0"	FACTORY



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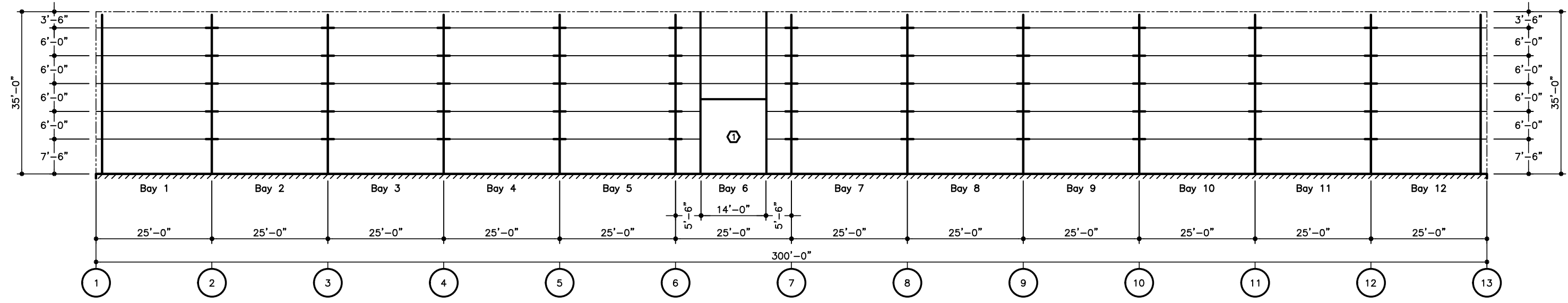
PROJECT NAME:  
 GROUND BREAKERS WHSE  
 PIKEVILLE, KY  
 CUSTOMER NAME:  
 STEEL STRUCTURES, INC.  
 HURRICANE, WV

DO NOT USE FOR FINAL CONSTRUCTION  
 SHEET TITLE:  
 PRELIMINARY STRUCTURAL ELEVATIONS  
 SHEET NUMBER:  
 ST5  
 QUOTE NUMBER:  
 1  
 DATE:  
 6/17/2020 8:44 AM



FRAMED OPENING SCHEDULE					
ID	QTY	WIDTH	HEIGHT	SILL HEIGHT	LOCATED
1	1	14'-0"	16'-0"	0'-0"	FACTORY

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**ELEVATION AT LINE G**

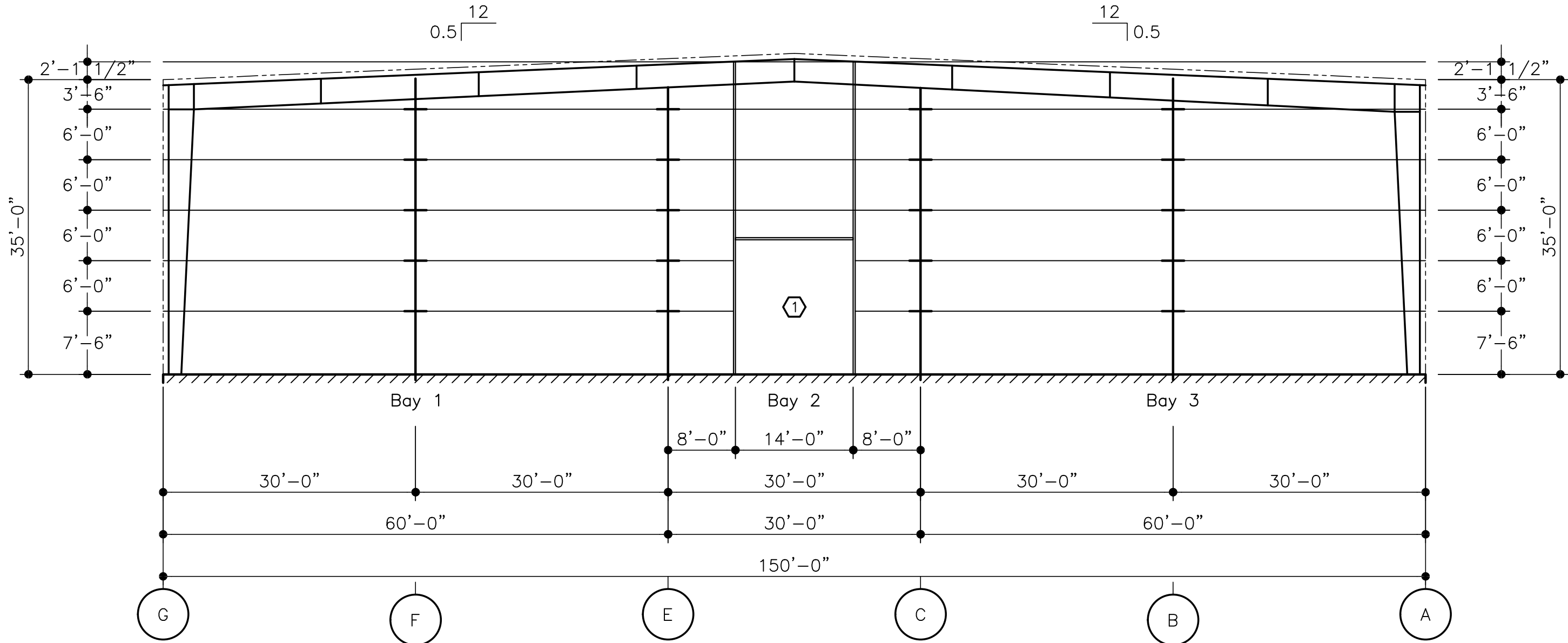
PROJECT NAME:  
GROUND BREAKERS WHSE  
PIKEVILLE, KY  
CUSTOMER NAME:  
STEEL STRUCTURES, INC.  
HURRICANE, WV

**DO NOT USE FOR FINAL CONSTRUCTION**  
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PRELIMINARY STRUCTURAL ELEVATIONS  
SHEET NUMBER:  
ST6

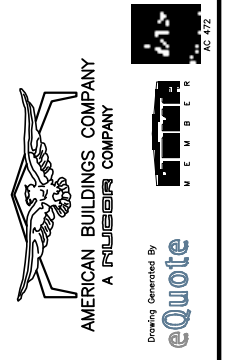
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QUOTE NUMBER:  
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FRAMED OPENING SCHEDULE					
ID	QTY	WIDTH	HEIGHT	SILL HEIGHT	LOCATED
1	1	14'-0"	16'-0"	0'-0"	FACTORY



ELEVATION AT LINE 13



PROJECT NAME:  
GROUND BREAKERS WHSE  
PIKEVILLE, KY

CUSTOMER NAME:  
STEEL STRUCTURES, INC.  
HURRICANE, WV

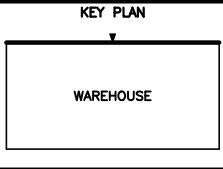
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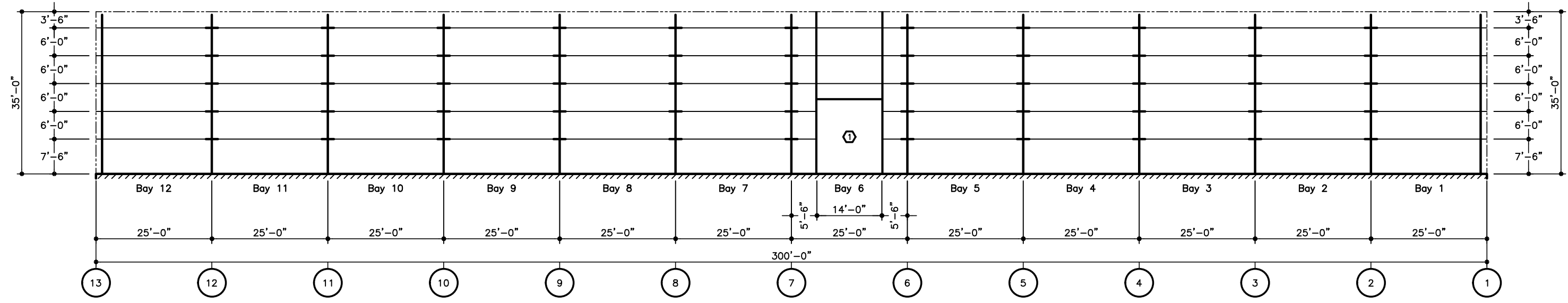
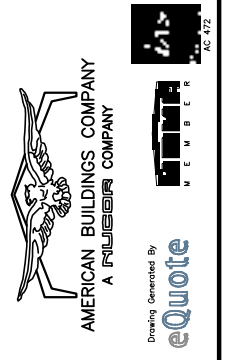
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6/17/2020 8:44 AM

QUOTE NUMBER:  
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FRAMED OPENING SCHEDULE					
ID	QTY	WIDTH	HEIGHT	SILL HEIGHT	LOCATED
1	1	14'-0"	16'-0"	0'-0"	FACTORY



ELEVATION AT LINE A

PROJECT NAME:  
GROUND BREAKERS WHSE  
PIKEVILLE, KY

CUSTOMER NAME:  
STEEL STRUCTURES, INC.  
HURRICANE, WV

**DO NOT USE FOR FINAL CONSTRUCTION**

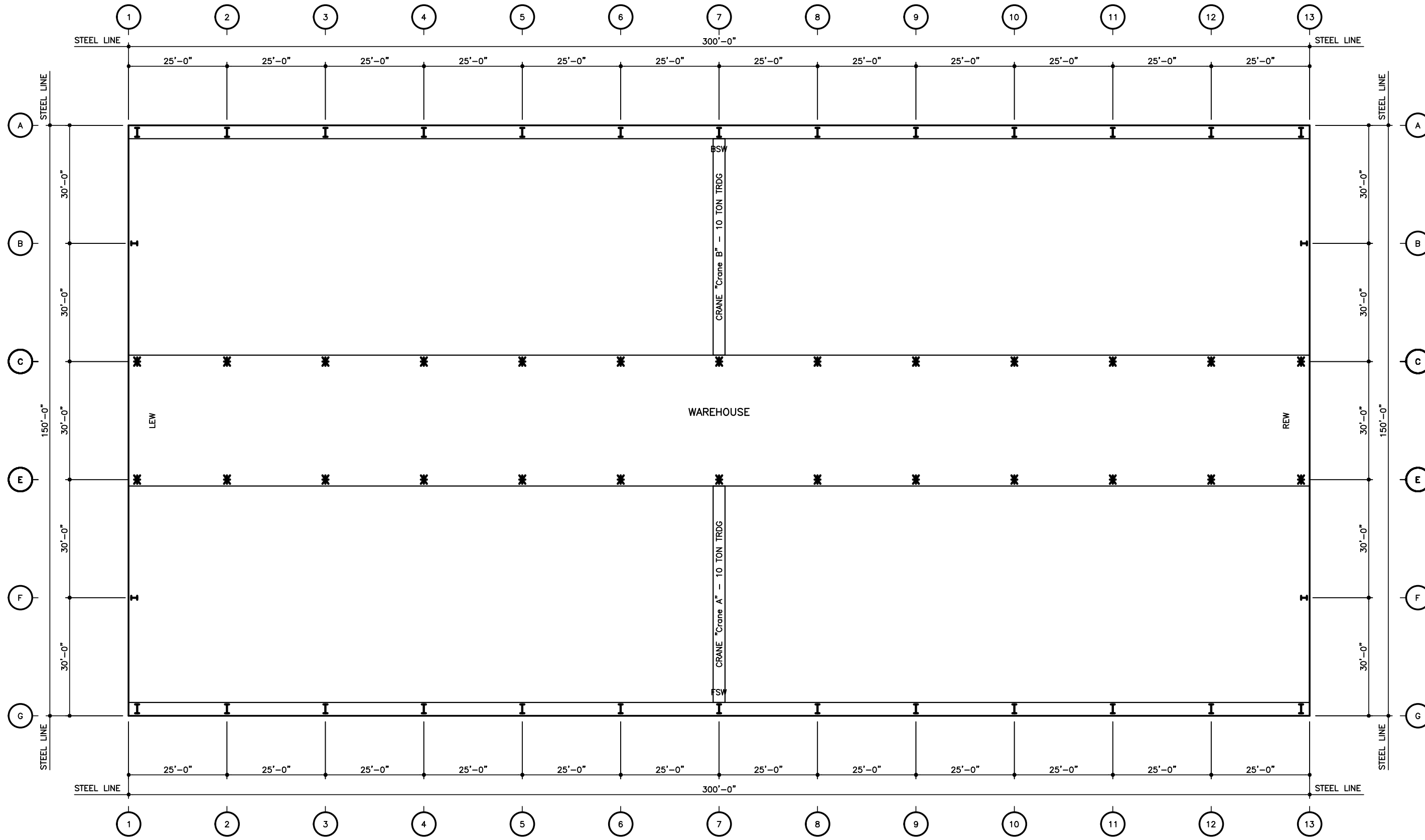
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PRELIMINARY STRUCTURAL ELEVATIONS

SHEET NUMBER:  
ST8

DATE:  
6/17/2020 8:44 AM

QUOTE NUMBER:  
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SHEET NUMBER: CP1

QUOTE NUMBER: 1

6/17/2020 8:44 AM

PROJECT NAME:

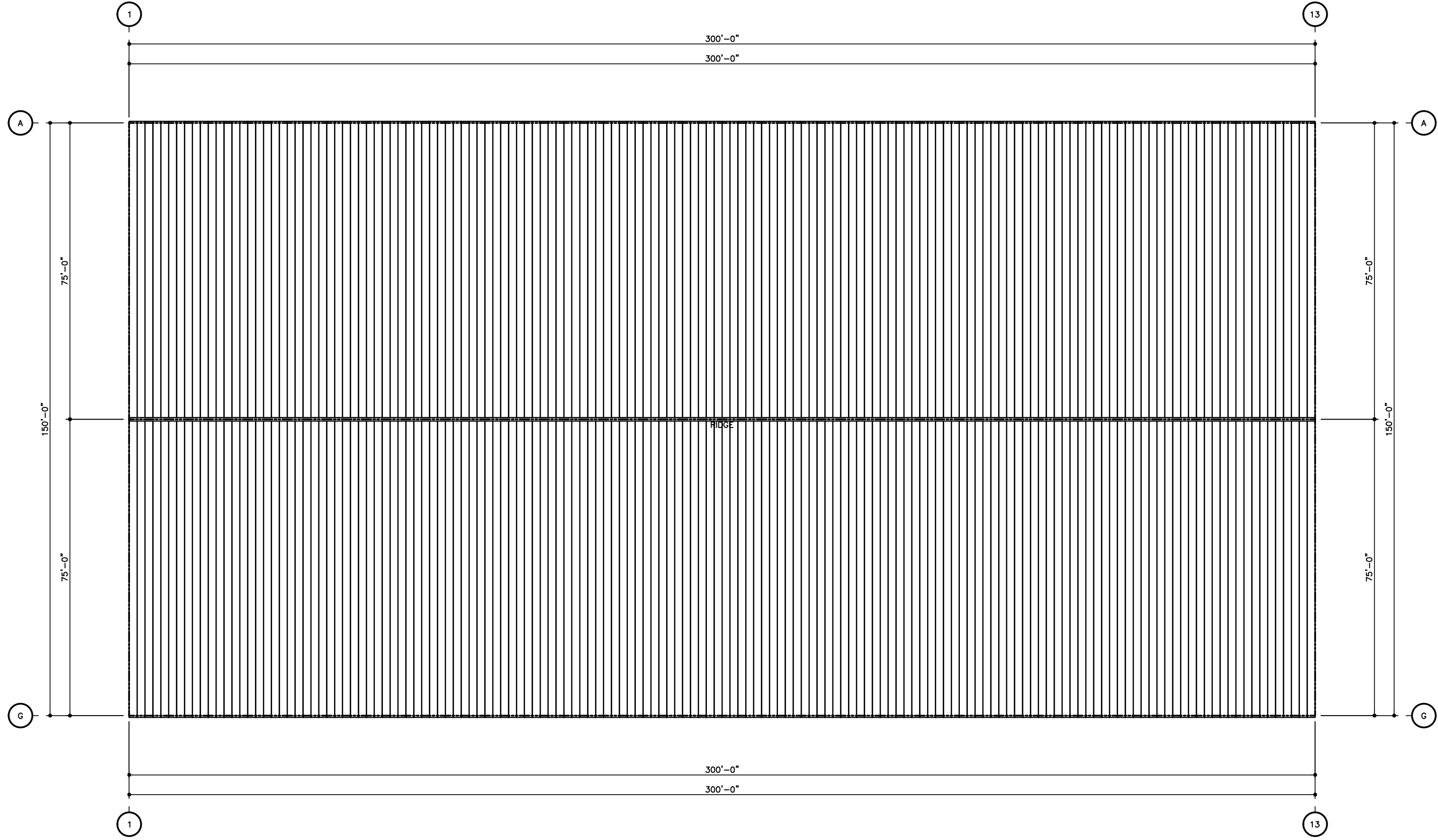
GROUND BREAKERS WHSE  
PIKEVILLE, KY

CUSTOMER NAME:

STEEL STRUCTURES, INC.  
HURRICANE, WV



Column locations marked with "\*" are designated as Most Economical (Pipe, Tube, or I-Shape) and will be determined at final design.



**ROOF SHEETING PLAN**

WAREHOUSE - PANELS: 24 GA. STANDINGSEAMII - GALVALUME PLUS

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6/17/2020 8:44 AM

PRELIMINARY ROOF SHEETING PLAN

SHEET NUMBER: QUOTE NUMBER:

RS1

1

PROJECT NAME:

GROUND BREAKERS WHSE  
PIKEVILLE, KY

CUSTOMER NAME:

STEEL STRUCTURES, INC.  
HURRICANE, WV



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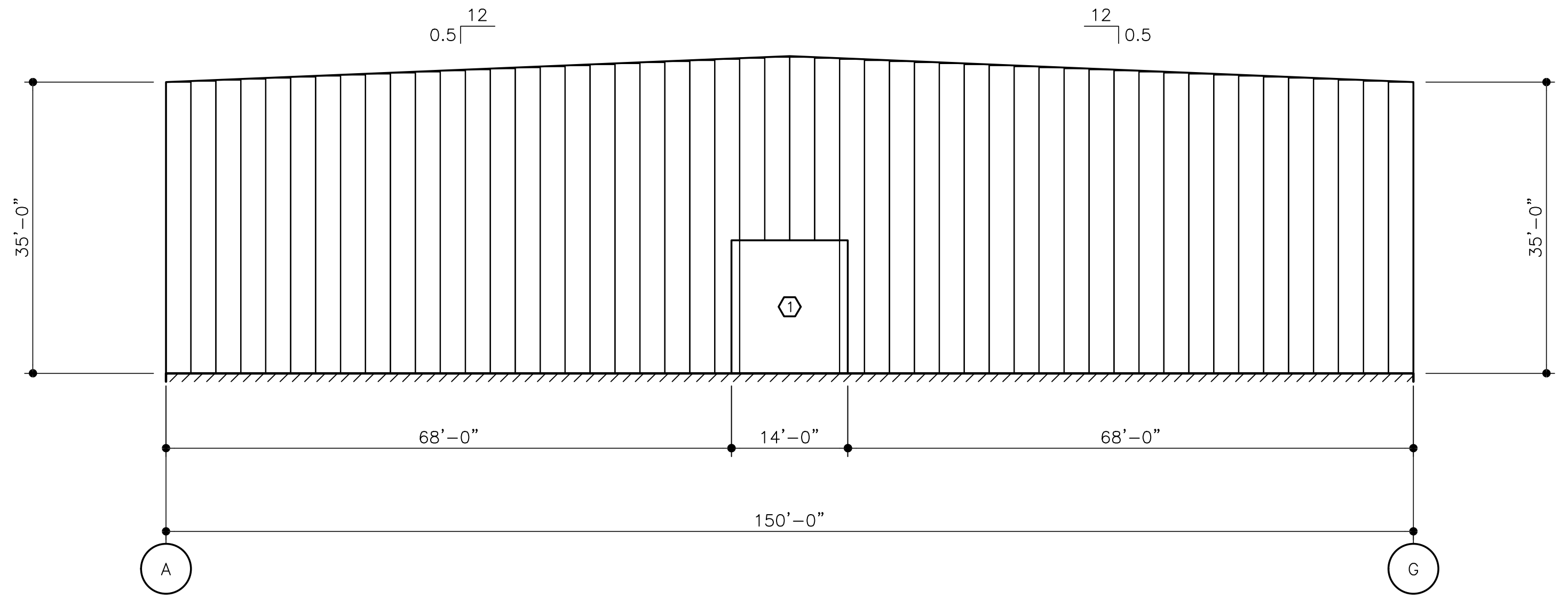
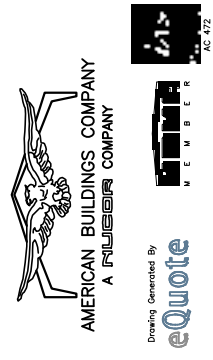


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KEY PLAN

WAREHOUSE

FRAMED OPENING SCHEDULE					
ID	QTY	WIDTH	HEIGHT	SILL HEIGHT	LOCATED
1	1	14'-0"	16'-0"	0'-0"	FACTORY



PROJECT NAME:  
GROUND BREAKERS WHSE  
PIKEVILLE, KY

CUSTOMER NAME:  
STEEL STRUCTURES, INC.  
HURRICANE, WV

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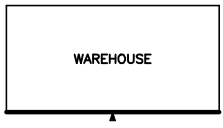
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SHEET NUMBER:  
WS5

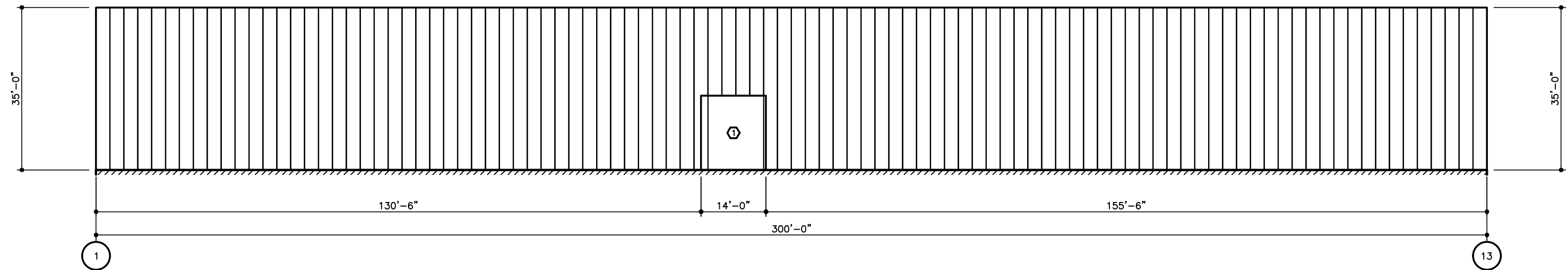
DATE:  
6/17/2020 8:44 AM

QUOTE NUMBER:  
1

WALL SHEETING ELEVATION AT LINE 1  
PANELS: 26 GA. Architectural III - TO BE SELECTED (SP)



FRAMED OPENING SCHEDULE					
ID	QTY	WIDTH	HEIGHT	SILL HEIGHT	LOCATED
1	1	14'-0"	16'-0"	0'-0"	FACTORY



**WALL SHEETING ELEVATION AT LINE G**  
 PANELS: 26 GA. Architectural III - TO BE SELECTED (SP)

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PROJECT NAME:  
**GROUND BREAKERS WHSE**  
**PIKEVILLE, KY**

CUSTOMER NAME:  
**STEEL STRUCTURES, INC.**  
**HURRICANE, WV**

**DO NOT USE FOR FINAL CONSTRUCTION**

SHEET TITLE:  
**PRELIMINARY SHEETING ELEVATIONS**

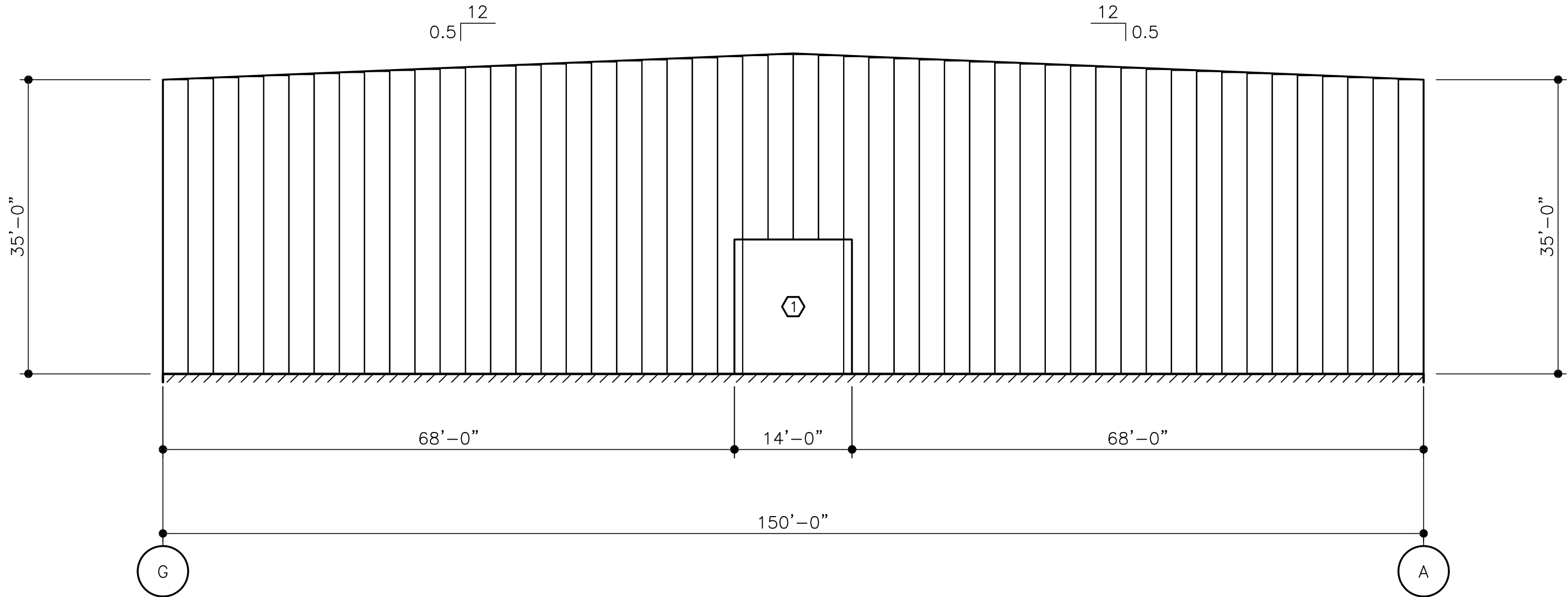
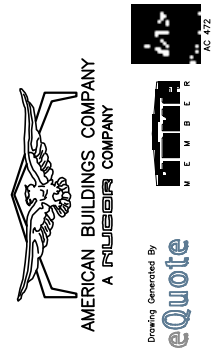
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DATE: 6/17/2020 8:44 AM

KEY PLAN



FRAMED OPENING SCHEDULE					
ID	QTY	WIDTH	HEIGHT	SILL HEIGHT	LOCATED
1	1	14'-0"	16'-0"	0'-0"	FACTORY



**WALL SHEETING ELEVATION AT LINE 13**  
 PANELS: 26 GA. Architectural III – TO BE SELECTED (SP)

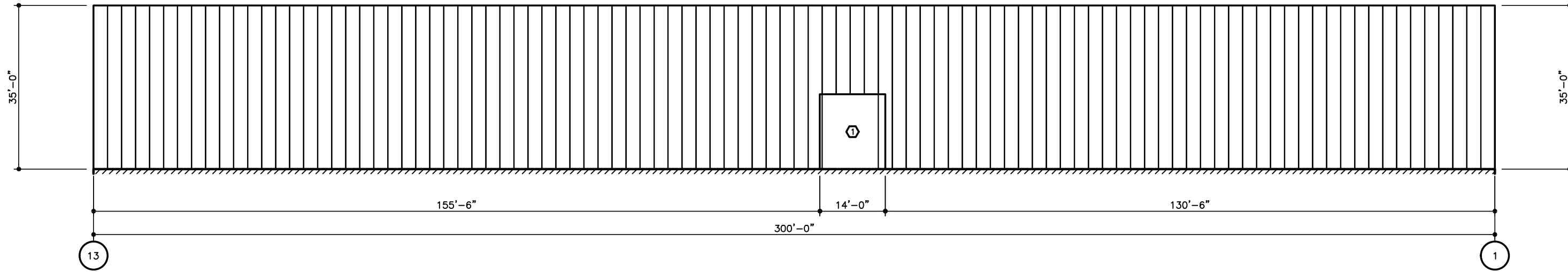
PROJECT NAME:  
 GROUND BREAKERS WHSE  
 PIKEVILLE, KY  
 CUSTOMER NAME:  
 STEEL STRUCTURES, INC.  
 HURRICANE, WV

**DO NOT USE FOR FINAL CONSTRUCTION**  
 SHEET TITLE:  
 PRELIMINARY SHEETING ELEVATIONS  
 SHEET NUMBER:  
 WS7  
 QUOTE NUMBER:  
 1  
 DATE:  
 6/17/2020 8:44 AM

KEY PLAN

WAREHOUSE

FRAMED OPENING SCHEDULE					
ID	QTY	WIDTH	HEIGHT	SILL HEIGHT	LOCATED
1	1	14'-0"	16'-0"	0'-0"	FACTORY



**WALL SHEETING ELEVATION AT LINE A**  
 PANELS: 26 GA. Architectural III - TO BE SELECTED (SP)

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PROJECT NAME:  
**GROUND BREAKERS WHSE**  
**PIKEVILLE, KY**

CUSTOMER NAME:  
**STEEL STRUCTURES, INC.**  
**HURRICANE, WV**

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SHEET TITLE:  
**PRELIMINARY SHEETING ELEVATIONS**

SHEET NUMBER:  
**WS8**

DATE:  
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QUOTE NUMBER:  
**1**

