METAL BUILDING SYSTEMS

120 Connor St NE
Live Oak, FL 32064

Ph. 800-231-0026
www.apex-mbs.com

BUILDING LOADS / DESCRIPTION:

WIDTH: 50 LENGTH: 100 HEIGHT: 18 /18
(BUILDING DIMENSIONS ARE NOMINAL. REFER TO PLANS).

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY : IBC 15 .

THE CONTRACTOR IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

ROOF DEAD LOAD:	3.0	PSF (ROOF PANELS & PURLINS)
COLLATERAL LOAD:	0.5	PSF
ROOF LIVE LOAD:	20.0	PSF
ROOF SNOW LOAD:	0.0	PSF
BASIC WIND SPEED:	120	MPH
SEISMIC ZONE:	B	
WIND EXPOSURE:	B	

IMPORTANCE FACTORS:

WIND LOAD:	___	1.00
SNOW LOAD	___	1.0000
SEISMIC LOAD	___	1.00

GENERAL NOTES:

1) MATERIALS :

	MINIMUM YIELD:	
HOT ROLLED BAR	Fy =	ksi MIN.
STRUCTURAL STEEL SHEET	Fy =	ksi MIN.
STRUCTURAL STEEL PLATE	Fy =	ksi MIN.
COLD FORMED SHAPES	Fy =	ksi MIN.
WALL SHEETING	Fy =	ksi MIN.
ROOF SHEETING	Fy =	ksi MIN.
BOLTS	A307 & A325	

THE METAL BUILDING MANUFACTURER RESERVES THE RIGHT TO SUBSTITUTE THE ABOVE MATERIALS WITH EQUAL OR BETTER MATERIAL.

2) BOLT TIGHTENING REQUIREMENTS:
ALL HIGH STRENGTH BOLTS ARE A325 UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS SHALL BE TIGHTENED BY THE TURN OF THE NUT METHOD IN ACCORDANCE WITH THE LATEST EDITION AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". A325 BOLTS SHALL BE INSTALLED WITH OUT WASHERS WHEN TIGHTENED BY THE "TURN OF THE NUT" METHOD. ALL BOLTED CONNECTIONS, FOR SHEAR/BEARING CONNECTION TYPE WITH BOLT THREADS EXCLUDED FROM THE SHEAR PLANE SHALL BE SNUG TIGHT ONLY.

3) ALL STRUCTUAL STEEL TO RECEIVE A RUST INHIBITIVE PRIMER. THIS PAINT IS NOT INTENDED FOR LONG TERM EXPOSURE TO THE ELEMENTS.

ROOF PANELS:

COLOR: Galvalume 26ga.

WALL PANELS:

COLOR: Need Std. Color

TRIM COLORS:

CABLE: Need Std. Color

CORNER: Need Std. Color

EAVE: Need Std. Color

FRAMED OPENINGS: Need Std. Color

LINER PANELS:

COLOR: N/A

LINER TRIM:

COLOR: N/A

DEFLECTION LIMTS:

EW COL:	120
EW RAF LIVE:	180
EW RAF WIND:	180
WALL GIRT:	120
PURL LIVE:	150
PURL WIND:	150
WALL PANEL:	90
ROOF PANEL LIVE:	180
ROOF PANEL WIND:	120
RF HORIZONTAL:	75
RF VERTICAL:	180
WIND BENT:	75
RF CRANE:	100
RF SEIS:	50
WIND BENT SEIS:	50

BUILDER / CONTRACTOR RESPONSIBILITIES

IT IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR TO INSURE THAT ALL PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. THE SUPPLYING OF SEALED ENGINEERING DATA AND DRAWINGS FOR THE METAL BUILDING SYSTEM DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE METAL BUILDING SYSTEM MANUFACTURER OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR A CONSTRUCTION PROJECT.
THE CONTRACTOR MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED.
APPROVAL OF THE METAL BUILDING SYSTEM MANUFACTURER'S DRAWINGS AND CALCULATIONS INDICATE THAT THE METAL BUILDING SYSTEM MANUFACTURER CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. (SECT. 4.2.1 AISC CODE OF STANDARD PRACTICES, 9TH ED.)
WHERE DISCREPANCIES EXIST BETWEEN THE METAL BUILDING SYSTEM MANUFACTURER'S STRUCTURAL STEEL PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 3.3 AISC CODE OF STANDARD PRACTICE 9TH ED.)
DESIGN CONSIDERATIONS OF ANY MATERIALS IN THE STRUCTURE WHICH ARE NOT FURNISHED BY THE METAL BUILDING SYSTEM MANUFACTURER ARE THE RESPONSIBILITY OF THE CONTRACTORS AND ENGINEERS OTHER THAN THE METAL BUILDING SYSTEM MANUFACTURER'S ENGINEER UNLESS SPECIFICALLY INDICATED.
THE CONTRACTOR IS RESPONSIBILE FOR ALL ERECTION OF STEEL AND ASSOCIATED WORK IN COMPLIANCE WITH THE METAL BUILDING SYSTEM MANUFACTURER "FOR CONSTRUCTION" DRAWINGS.
ALL BRACING AS SHOWN AND PROVIDED BY THE METAL BUILDING SYSTEM MANUFACTURER FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE.
TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSE WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED AND FURNISHED AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS WILL SECURE THE STEEL FRAMING, OR ANY PARTLY ASSEMBLIED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS, BUT NOT THE LOADS RESULTING FROM THE PERFORMANCE OF WORK BY OR THE ACTS OF OTHERS, NOR SUCH UNPREDICTABLE LOADS AS THOSE DUE TO TORNADO, EXPLOSION, OR COLLISION. (SECT. 7.9.1 AISC CODE OF STANDARD PRACTICE, 9TH ED.)
WARNING : IN NO CASE SHOULD GALVALUME STEEL PANELS BE USED IN CONJUNCTION WITH LEAD OR COPPER. BOTH LEAD AND COPPER HAVE HARMFUL CORROSION EFFECTS ON THE ALUMINUM ZINC ALLOY COATING WHEN THEY ARE USED IN CONTACT WITH GALVALUME STEEL PANELS. EVEN RUN-OFF FROM COPPER FLASHING, WIRING, OR TUBING ONTO GALVALUME SHOULD BE AVOIDED.

APPROVAL NOTES

THE FOLLOWING CONDITIONS APPLY IN THE EVENT THAT THESE DRAWINGS ARE USED AS APPROVAL DRAWINGS:
IT IS IMPERATIVE THAT ANY CHANGES TO THESE DRAWINGS BE MADE IN CONTRASTING INK (PREFERABLY RED INK), HAVE ALL INSTANCES OF CHANGE CLEARLY INDICATED, AND BE LEGIBLE AND UNAMBIGUOUS.
A SIGNATURE AND DATE IS REQUIRED ON ALL PAGES.
MANUFACTURER RESERVES THE RIGHT TO RE-SUBMIT DRAWINGS WITH EXTENSIVE OR COMPLEX CHANGES REQUIRED TO AVOID MISFABRICATION. THIS MAY IMPACT THE DELIVERY SCHEDULE.
APPROVAL OF THESE DRAWINGS INDICATES CONCLUSIVELY THAT THE METAL BUILDING SYSTEM MANUFAACTURER HAS CORRECTLY INTERPRETED THE CONTRACT REQUIREMENTS, AND FURTHER CONSTITUTES AGREEMENT THAT THE BUILDING AS DRAWN WITH INDICATED CHANGES REPRESENTS THE TOTAL OF THE MATERIALS TO BE SUPPLIED BY MANUFACTURER.
ANY CHANGES NOTED ON THHE DRAWINGS NOT IN COMFORMANCE WITH THE TERMS AND REQUIREMENTS OF THE CONTRACT BETWEEN MANUFACTURER AND ITS CUSTOMER ARE NOT BINDING ON MANUFACTURER UNLESS SUBSEQUENTLY SPECIFICALLY ACKNOWLEDGED AND AGREED TO IN WRITING BY CHANGE ORDER OR SEPARATE DOCUMENTATION. MANUFACTURER RECONGNIZES THAT RUBBER STAMPS ARE ROUTINELY USED FOR INDICATING APPROVAL, DISAPPROVAL, REJECTION, OR MERE REVIEW OF THE DRAWINGS SUBMITTED. HOWEVER, MANUFACTURER DOES NOT ACCEPT CHANGES OR ADDITIONS TO CONTRACTURAL TERMS AND CONDITIONS THAT MAY APPEAR WITH USE OF A STAMP OR SIMILIAR INDICATIOIN OF APPROVAL, DISAPPROVAL, ETC. SUCH LANGUAGE APPLIED TO MANUFACTURER'S DRAWINGS BY THE CUSTOMER, ARCHITECT, ENGINEER, OR ANY OTHER PARTY WILL BE CONSIDERED AS UNACCEPTABLE ALTERNATIONS TO THESE DRAWING NOTES, AND WILL NOT ALTER THE CONTRACTUAL RIGHTS AND OBLIGATIONS EXISTING BETWEEN MANUFACTURER AND ITS CUSTOMER.

IMPORTANT NOTE: FINAL DETAILING, FABRICATION, AND DELIVERY DATE OF THIS PROJECT CANNOT BE COMPLETED UNTIL THE SIGNED APPROVALS ARE RETURNED TO THE METAL BUILDING MANUFACTURER.

KYLE S. McDONOUGH LICENSE No. 83601 STATE OF FLORIDA PROFESSIONAL ENGINEER

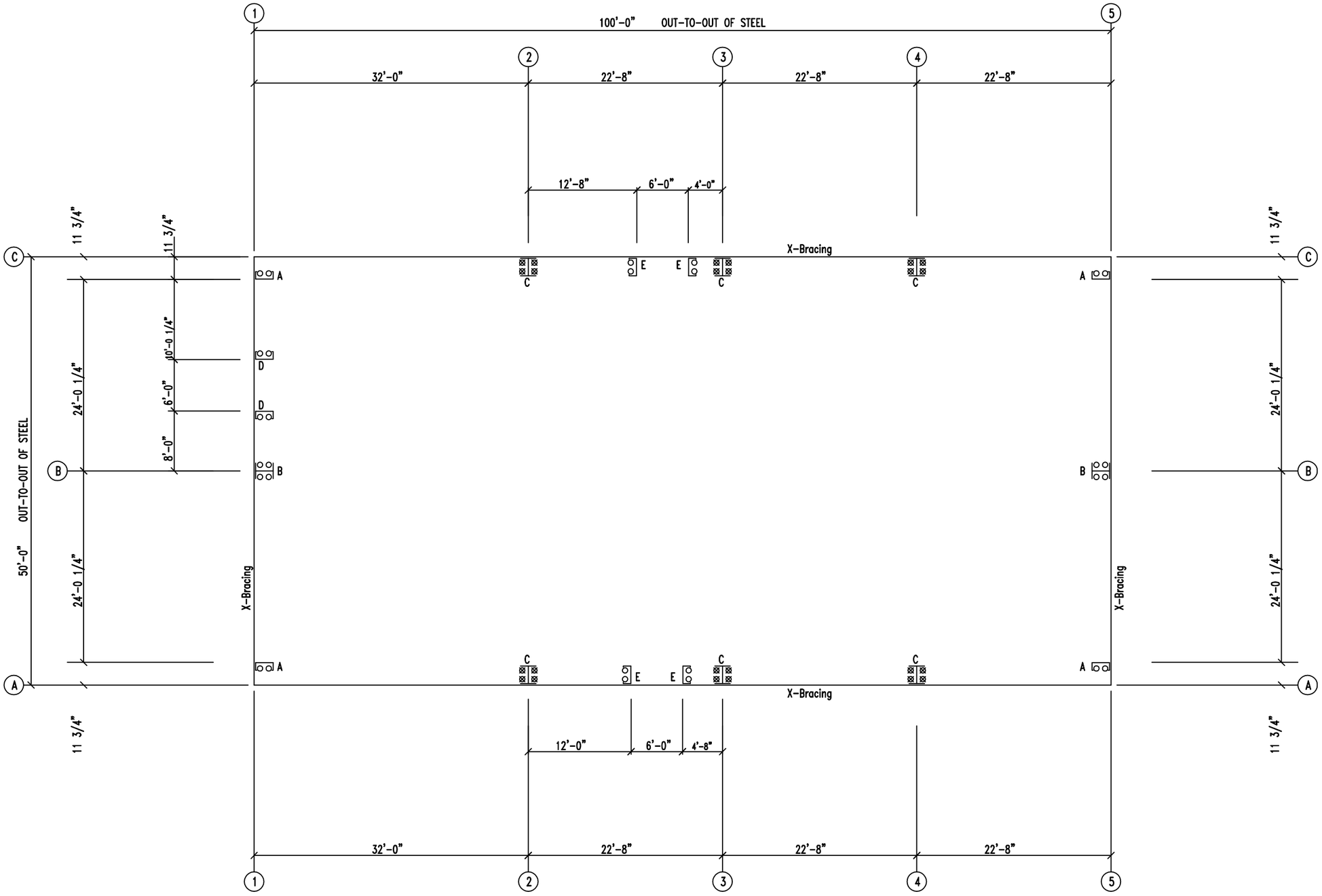
Digitally signed by Kyle McDonough
Date: 2020.10.01 '09:29:06 -04'00

This document has been electronically signed by Kyle S. McDonough using a Digital Signature and Date. This electronic signature is generated via a third-party verification service, and the application of it signs and certifies the entire PDF document. As such, only the first page of this documents requires a digital verified signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

NO.	DATE	ISSUE
1	10/1/20	FOR CONSTRUCTION

PROJECT: New Generation Gymnasium

JOB NUMBER: 20-547



ANCHOR ROD PLAN

NOTE: All Base Plates @ 100'-0" (FINISH FLOOR)(UNLESS NOTED)

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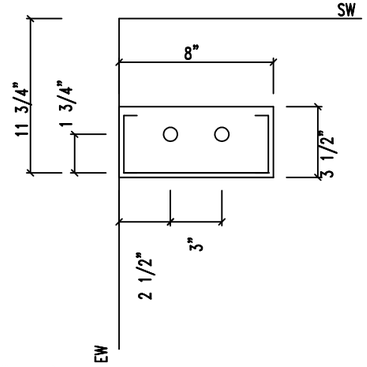
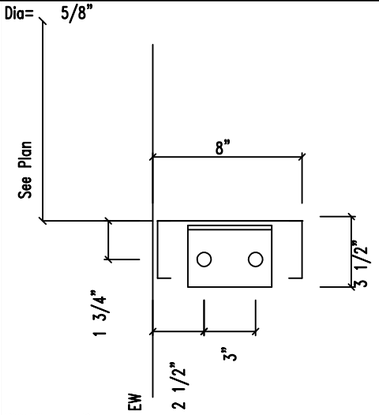
DESCRIPTION: Anchor Rod Plan						
CUSTOMER:					PROJECT: New Generation Gym	
LOCATION: Lake City, FL 32025						
DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
JB	JB	10/ 1/20	N.T.S.	00	20-547	2 of 13

Dia= 5/8"



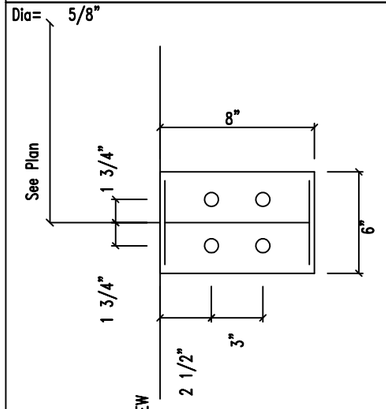
DETAIL A

Dia= 5/8"



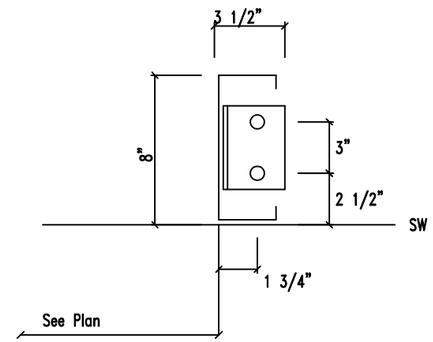
DETAIL D

Dia= 5/8"



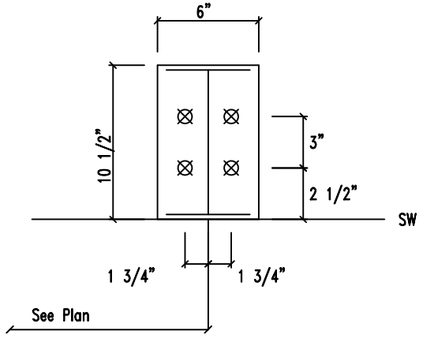
DETAIL B

Dia= 5/8"



DETAIL E

Dia= 3/4"



DETAIL C

APEX METAL BUILDING SYSTEMS
120 Connor St NE
Live Oak, FL 32064
Ph. 800-231-0026
www.apex-mbs.com

DESCRIPTION: ANCHOR BOLT DETAILS

CUSTOMER:

PROJECT: New Generation Gym

LOCATION: Lake City, FL 32025

DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
JB	JB	10/ 1/20	N.T.S.	00	20-547	3 of 13

NOTES FOR REACTIONS

1. All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
4. Building reactions are based on the following building data:

Width (ft)	=	50.0
Length (ft)	=	100.0
Eave Height (ft)	=	18.0/ 18.0
Roof Slope (rise/12)	=	1.0/ 1.0
Dead Load (psf)	=	3.0
Collateral Load (psf)	=	0.5
Roof Live Load(psf)	=	20.0
Frame Live Load(psf)	=	12.0
Wind Speed (mph)	=	120.0
Wind Code	=	FBC 17 (IBC 15)
Exposure	=	B
Closed/Open	=	C
Importance Wind	=	1.00
Importance Seismic	=	1.00
Seismic Zone	=	B
Seismic Coeff (Fa*Ss)	=	0.16

5. Loading conditions are:

1 Dead+Collateral+Live
2 0.6Dead+0.6Wind_Left1
3 0.6Dead+0.6Wind_Right1
4 0.6Dead+0.6Wind_Long1L
5 0.6Dead+0.6Wind_Long2L
6 0.6Dead+0.6Wind_Suction+0.6Wind_Long1L
7 0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L
8 Dead+Collateral+E1PAT_LL_1
9 0.6Dead+0.6Wind_Left1+0.6Wind_Suction
10 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
11 0.6Dead+0.6Wind_Right1+0.6Wind_Suction
12 Dead+Collateral+E1PAT_LL_2
13 Dead+Collateral+E2PAT_LL_1
14 0.6Dead+0.6Wind_Suction+0.6Wind_Long2L
15 Dead+Collateral+E2PAT_LL_2

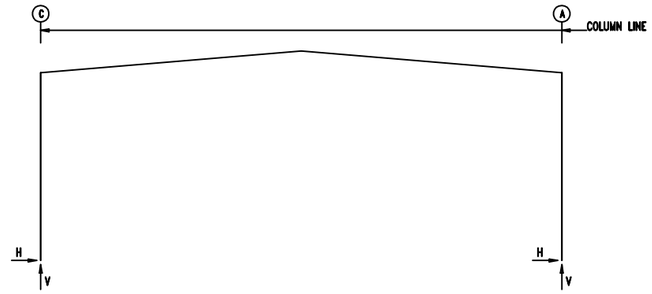
ANCHOR BOLT SUMMARY

	Qty	Locate	Dia (in)	Type	Total Len (in)	Bend Len (in)	Proj (in)
○	12	Jamb	5/8"	A307	9.00	3.00	3.00
○	16	Endwall	5/8"	A307	9.00	3.00	3.00
⊠	24	Frame	3/4"	A307	12.0	3.00	3.00

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Panel_Shear (lb/ft) Seis
L_EW	1	B,A	2.6	2.0	0.2	0.2		
F_SW	A	3,4	4.0	2.8	0.6	0.4		
R_EW	5	A,B	1.9	1.4	0.2	0.1		
B_SW	C	4,3	4.0	2.8	0.6	0.4		

FRAME LINES: 2 3 4



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR RODS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
2*	C	1	4.8	11.2	2	-4.2	-6.4	4	0.750	6.000	10.50	0.500	0.0
					4	-0.1	-7.1						
2*	A	3	4.2	-6.4	1	-4.8	11.2	4	0.750	6.000	10.50	0.500	0.0
		1	-4.8	11.2	5	0.1	-7.1						

2* Frame lines: 2 3 4

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert
2*	C	1.1	2.7	0.1	0.3	3.6	8.2	-8.1	-13.3	0.3	-8.0	-7.8	-7.9
2*	A	-1.1	2.7	-0.1	0.3	-3.6	8.2	-0.3	-8.0	8.1	-13.3	-0.5	-2.6

Frame Line	Column Line	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert	Seismic_Long Horiz	Seismic_Long Vert
2*	C	0.5	-2.6	-1.2	-14.5	-1.6	-12.4	-0.1	-0.1	0.1	0.1	0.0	-0.4
2*	A	7.8	-7.9	1.6	-12.4	1.2	-14.5	-0.1	0.1	0.1	-0.1	0.0	-0.4

2* Frame lines: 2 3 4

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind Press Horz	Wind Suct Horz
1	C	0.7	0.1	2.5	0.0	-3.9	0.0	-2.1	0.0	-2.5	0.0	-0.8	-2.0	2.3
1	B	2.0	0.2	7.9	-2.6	-11.3	0.0	-7.1	-2.6	-7.6	0.0	-3.5	-4.3	4.7
1	A	0.7	0.1	2.5	0.0	0.1	2.6	-5.8	0.0	1.4	2.6	-4.5	-2.0	2.3

Frm Line	Col Line	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	E1PAT_LL_1 Horz	E1PAT_LL_1 Vert	E1PAT_LL_2 Horz	E1PAT_LL_2 Vert
1	C	0.0	-4.1	0.0	-2.1	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-0.4
1	B	0.0	-8.6	-0.3	-9.1	-0.2	-0.2	0.0	0.2	0.0	3.9	0.0	3.9
1	A	0.3	-2.4	0.0	-3.9	0.0	0.2	0.2	-0.2	0.0	-0.4	0.0	2.9

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind Press Horz	Wind Suct Horz
5	A	0.5	0.1	2.1	-1.9	-4.3	0.0	0.0	-1.9	-3.4	0.0	1.0	-2.0	2.3
5	B	1.5	0.2	6.4	0.0	-5.4	1.9	-8.4	0.0	-2.8	1.9	-5.8	-4.3	4.8
5	C	0.5	0.1	2.1	0.0	-1.6	0.0	-2.9	0.0	-0.6	0.0	-2.0	-2.0	2.3

Frm Line	Col Line	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	E2PAT_LL_1 Horz	E2PAT_LL_1 Vert	E2PAT_LL_2 Horz	E2PAT_LL_2 Vert
5	A	0.0	-2.9	-0.2	-1.8	-0.2	-0.1	0.0	0.1	0.0	2.4	0.0	-0.3
5	B	0.2	-6.8	0.0	-6.4	0.0	0.1	0.2	-0.1	0.0	3.2	0.0	3.2
5	C	0.0	-1.6	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	2.4

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR RODS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
1	C	6	1.4	-2.1	7	-1.2	-2.1	2	0.625	3.500	8.000	0.375	0.0
		8	0.0	3.6	6	1.4	-2.1						
1	B	9	2.8	-5.6	10	-2.6	-4.2	4	0.625	6.000	8.000	0.375	0.0
		1	0.0	10.2	9	2.8	-5.6						
1	A	11	1.4	-3.1	10	-1.2	-1.9	2	0.625	3.500	8.000	0.375	0.0
		12	0.0	3.7	11	1.4	-3.1						
5	A	9	1.4	-2.3	7	-1.2	-1.4	2	0.625	3.500	8.000	0.375	0.0
		13	0.0	3.0	9	1.4	-2.3						
5	B	11	2.9	-4.1	7	-2.6	-3.2	4	0.625	6.000	8.000	0.375	0.0
		1	0.0	8.2	11	2.9	-4.1						
5	C	14	1.4	-1.5	10	-1.2	-1.5	2	0.625	3.500	8.000	0.375	0.0
		15	0.0	3.0	14	1.4	-1.5						

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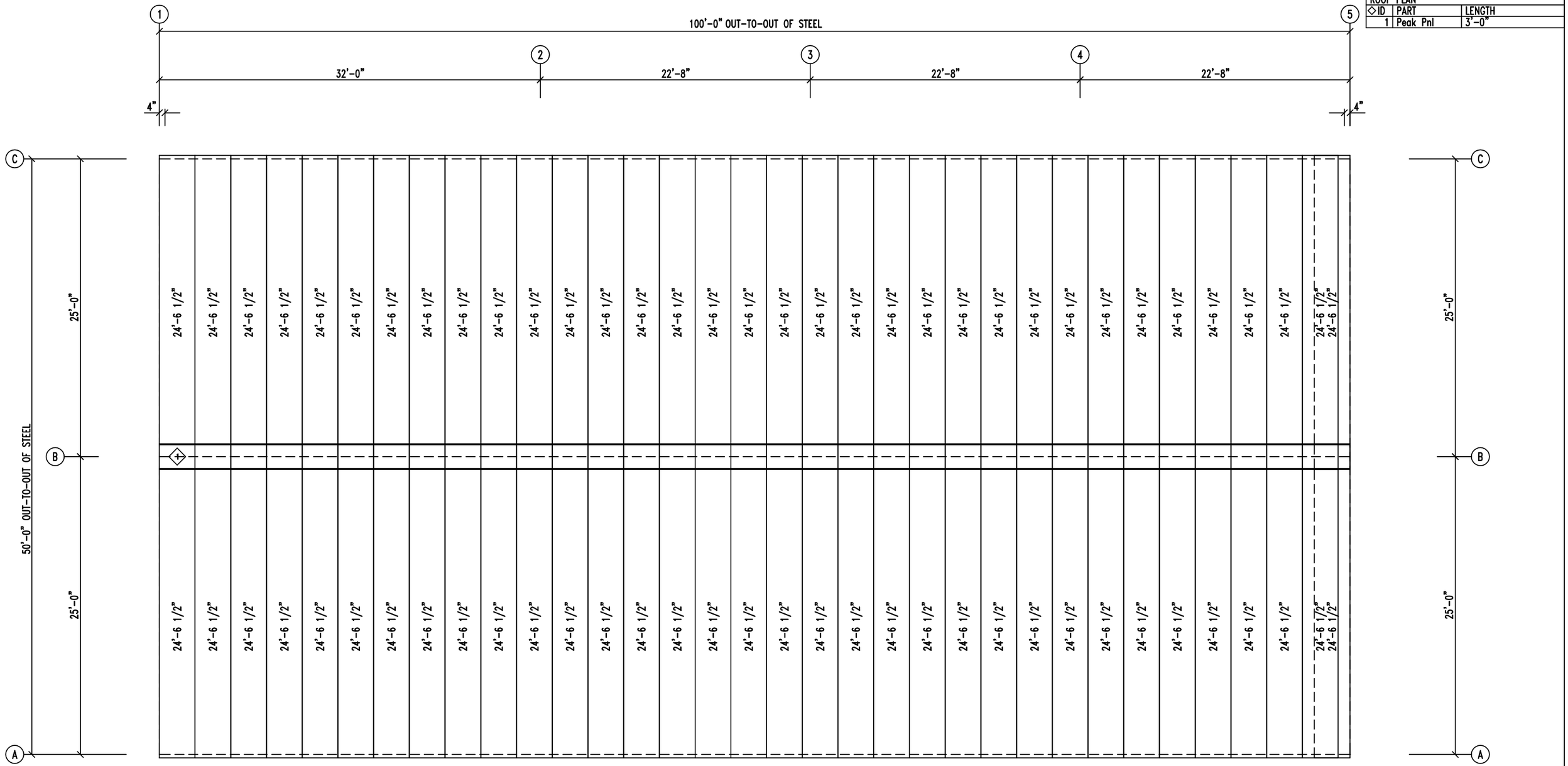
DESCRIPTION: Reactions
CUSTOMER:
PROJECT: New Generation Gym
LOCATION: Lake City, FL 32025

DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
JB	JB	10/ 1/20	N.T.S.	00	20-547	4 of 13

TRIM TABLE ROOF PLAN		
◇ID	PART	LENGTH
1	Peak Pnl	3'-0"



ROOF SHEETING PLAN

PANELS: 26 Ga. PBR – Galvalume 26ga.

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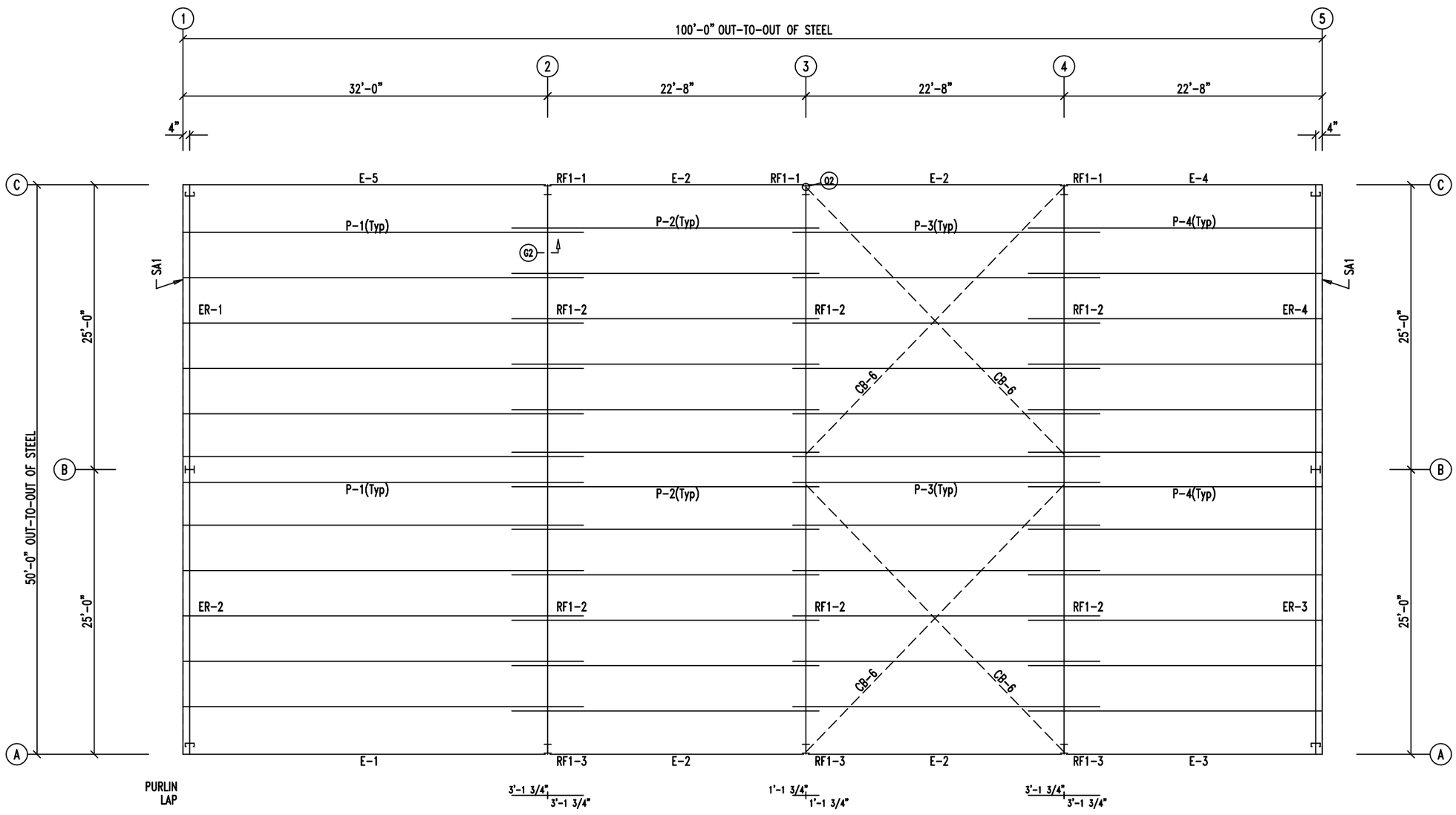
DESCRIPTION: ROOF FRAMING PLAN						
CUSTOMER:					PROJECT: New Generation Gym	
LOCATION: Lake City, FL 32025						
DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
JB	JB	10/ 1/20	N.T.S.	00	20-547	5 of 13

MEMBER TABLE ROOF PLAN		
MARK	PART	LENGTH
P-1	10X25Z14	35'-1 1/2"
P-2	10X25Z12	26'-11 1/2"
P-3	10X25Z16	26'-11 1/2"
P-4	10X25Z16	25'-9 1/2"
E-1	10E14	31'-11 1/2"
E-2	10E14	22'-7 1/2"
E-3	10E14	22'-7 1/2"
E-4	10E14	22'-7 1/2"
E-5	10E14	31'-11 1/2"
CB-6	CB0250	32'-10"



ROOF FRAMING PLAN

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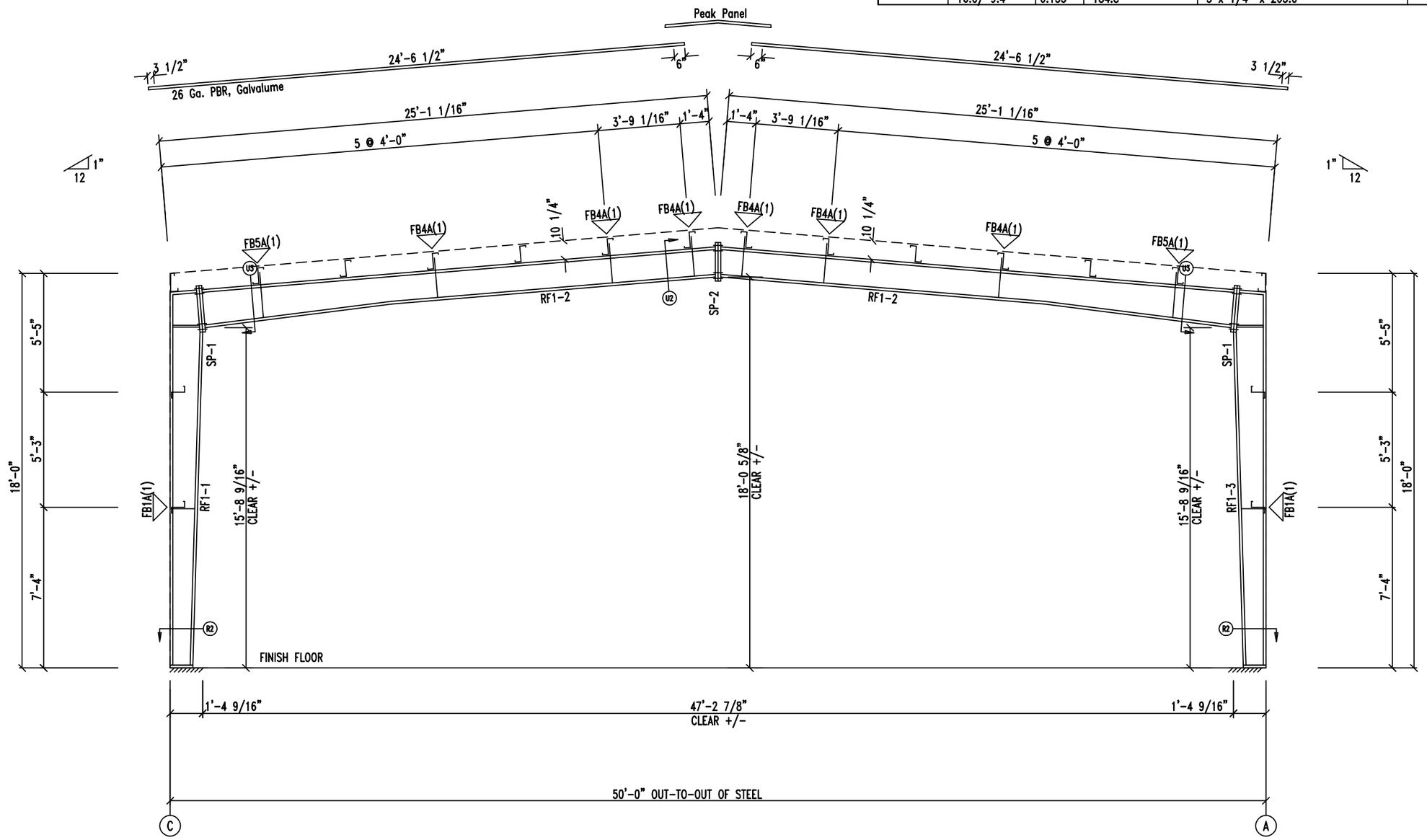
LOCATION: Lake City, FL 32025						
DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
JB	JB	10/ 1/20	N.T.S.	00	20-547	6 of 13

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	5/8"	2"	6"	1/2"	2'-0 3/4"
SP-2	4	4	0	A325	5/8"	2"	6"	1/2"	1'-8 5/16"

MEMBER TABLE				
Mark	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	9.4/16.0	0.135	184.8	5 x 1/4" x 205.0	5 x 5/16" x 185.0
	16.0/14.2	0.188	21.3	5 x 1/4" x 14.5	
RF1-2	18.0/13.5	0.135	105.0	5 x 1/4" x 285.0	5 x 1/4" x 105.1
	13.5/13.5	0.135	180.0		5 x 1/4" x 178.8
RF1-3	14.2/16.0	0.188	21.3	5 x 1/4" x 14.5	5 x 5/16" x 185.0
	16.0/ 9.4	0.135	184.8	5 x 1/4" x 205.0	

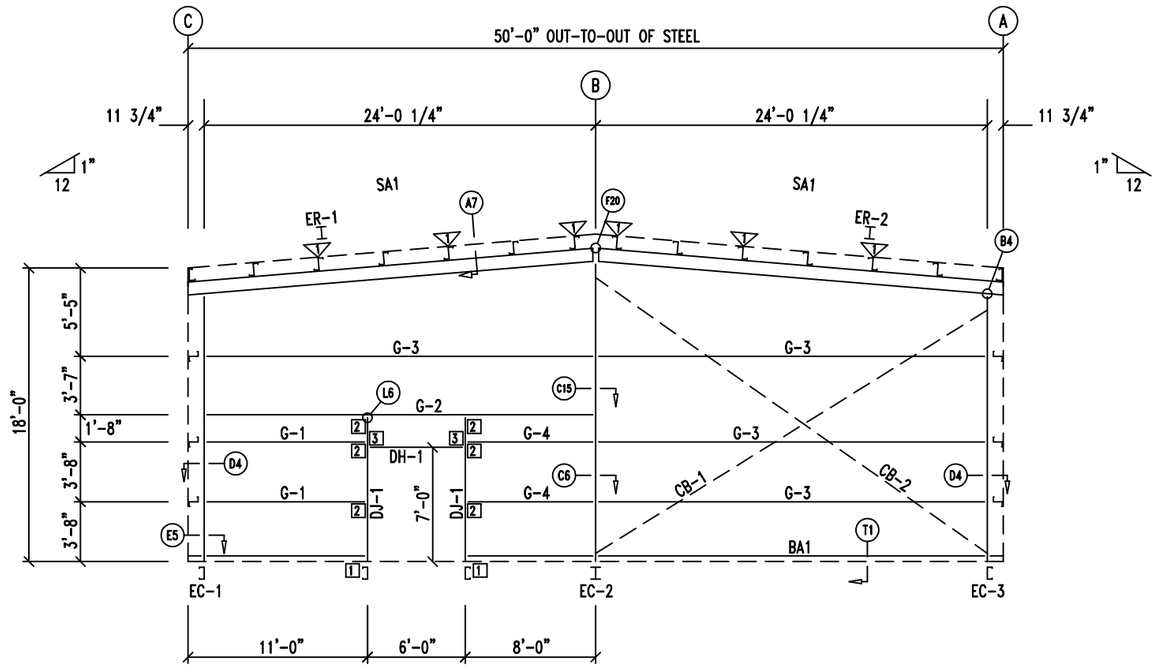
FLANGE BRACES: FBxx (1 or 2)
xx=length(in)
(1) One Side; (2) Two Sides
A - 2X2X14Ga



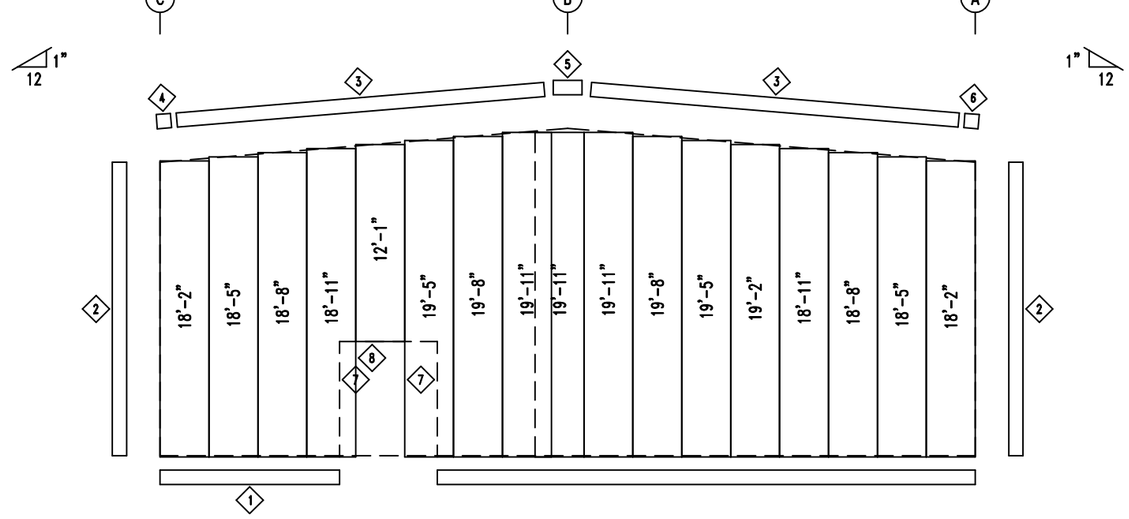
RIGID FRAME ELEVATION: FRAME LINE 2 3 4

APEX METAL BUILDING SYSTEMS
120 Connor St NE
Live Oak, FL 32064
Ph. 800-231-0026
www.apex-mbs.com

DESCRIPTION: CROSS SECTION						
CUSTOMER:					PROJECT: New Generation Gym	
LOCATION: Lake City, FL 32025						
DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
JB	JB	10/ 1/20	N.T.S.	00	20-547	7 of 13



ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. PBR - Need Std. Color

BOLT TABLE
FRAME LINE 1

LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	8	A325	5/8"	2"
Columns/Raf	2	A325	5/8"	1 1/4"

MEMBER TABLE
FRAME LINE 1

MARK	PART	LENGTH
EC-1	8X35C14	16'-4 1/16"
EC-2	W8X10	17'-11 13/16"
EC-3	8X35C12	16'-4 1/16"
ER-1	W10X12	25'-0 13/16"
ER-2	W10X12	25'-0 13/16"
DJ-1	8X35C16	8'-7 3/4"
DH-1	8X25C16	5'-11 1/2"
G-1	8X25Z12	9'-4 1/4"
G-2	8X25Z12	23'-4 1/4"
G-3	8X25Z12	23'-4 1/4"
G-4	8X25Z12	7'-4"
CB-1	CB0250	28'-11"
CB-2	CB0250	29'-10"

TRIM TABLE
FRAME LINE 1

◇ID	PART	LENGTH
1	FL-60	20'-2"
2	FL-10	18'-0"
3	FL-21	15'-2"
4	FL-21L	11'-2"
5	FL-23	1'-4"
6	FL-21R	11'-2"
7	FL-48	7'-3"
8	FL-52	6'-4"

FLANGE BRACE TABLE
FRAME LINE 1

▽ID	MARK	LENGTH
1	FB3A	2'-10 3/4"

CONNECTION PLATES
FRAME LINE 1

□ID	MARK/PART
1	CL-104
2	CL-103
3	CL-100

METAL BUILDING SYSTEMS
120 Connor St NE
Live Oak, FL 32064
Ph. 800-231-0026
www.apex-mbs.com

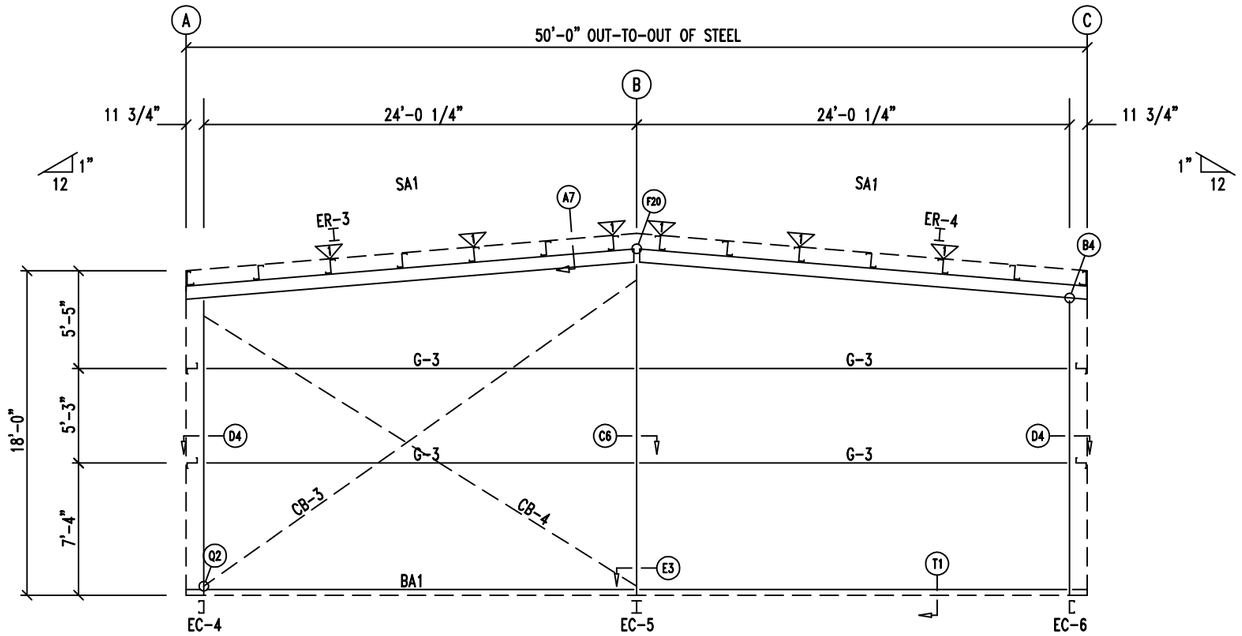
DESCRIPTION: ENDWALL ELEVATION

CUSTOMER:

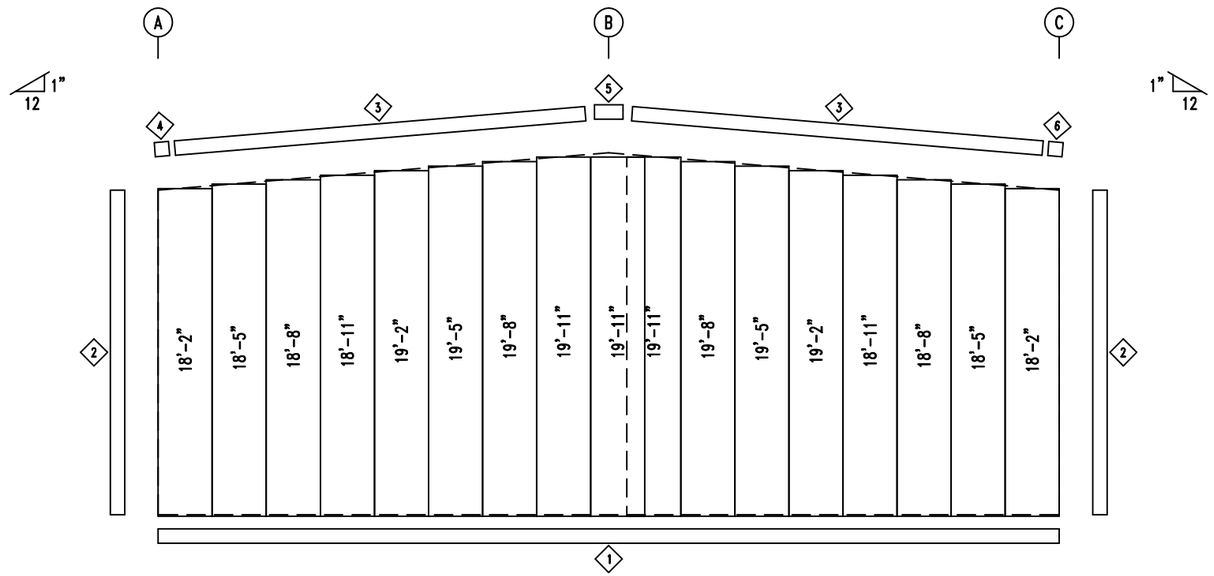
PROJECT: New Generation Gym

LOCATION: Lake City, FL 32025

DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
JB	JB	10/ 1/20	N.T.S.	00	20-547	8 of 13



ENDWALL FRAMING: FRAME LINE 5



ENDWALL SHEETING & TRIM: FRAME LINE 5

PANELS: 26 Ga. PBR – Need Std. Color

BOLT TABLE
FRAME LINE 5

LOCATION	QUAN	TYPE	DIA	LENGTH
ER-3/ER-4	8	A325	5/8"	2"
Columns/Raf	2	A325	5/8"	1 1/4"

MEMBER TABLE
FRAME LINE 5

MARK	PART	LENGTH
EC-4	8X35C12	16'-6"
EC-5	W8X10	18'-1 13/16"
EC-6	8X35C12	16'-6"
ER-3	W8X10	25'-0 13/16"
ER-4	W8X10	25'-0 13/16"
G-3	8X25Z12	23'-4 1/4"
CB-3	CB0250	29'-11"
CB-4	CB0250	29'-0"

TRIM TABLE
FRAME LINE 5

◇ID	PART	LENGTH
1	FL-60	20'-2"
2	FL-10	18'-0"
3	FL-21	15'-2"
4	FL-21L	11'-2"
5	FL-23	1'-4"
6	FL-21R	11'-2"

FLANGE BRACE TABLE
FRAME LINE 5

▽ID	MARK	LENGTH
1	FB2A	2'-10 1/4"

METAL BUILDING SYSTEMS
120 Connor St NE
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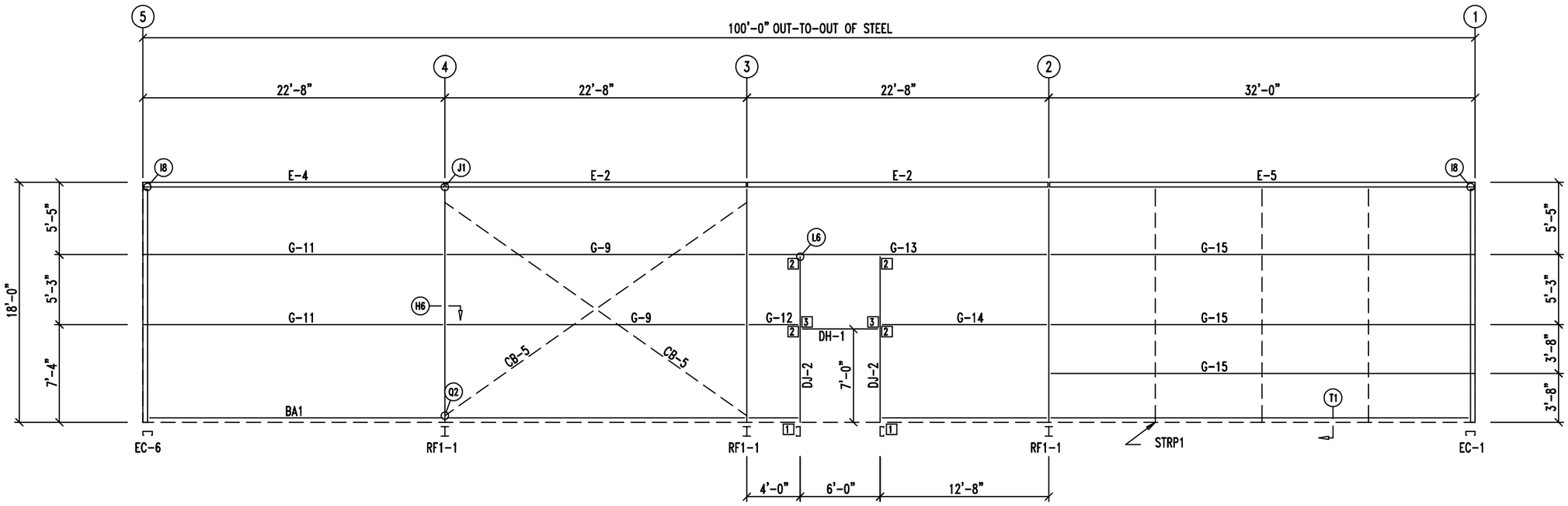
DESCRIPTION: ENDWALL ELEVATION

CUSTOMER:

PROJECT: New Generation Gym

LOCATION: Lake City, FL 32025

DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
JB	JB	10/ 1/20	N.T.S.	00	20-547	9 of 13

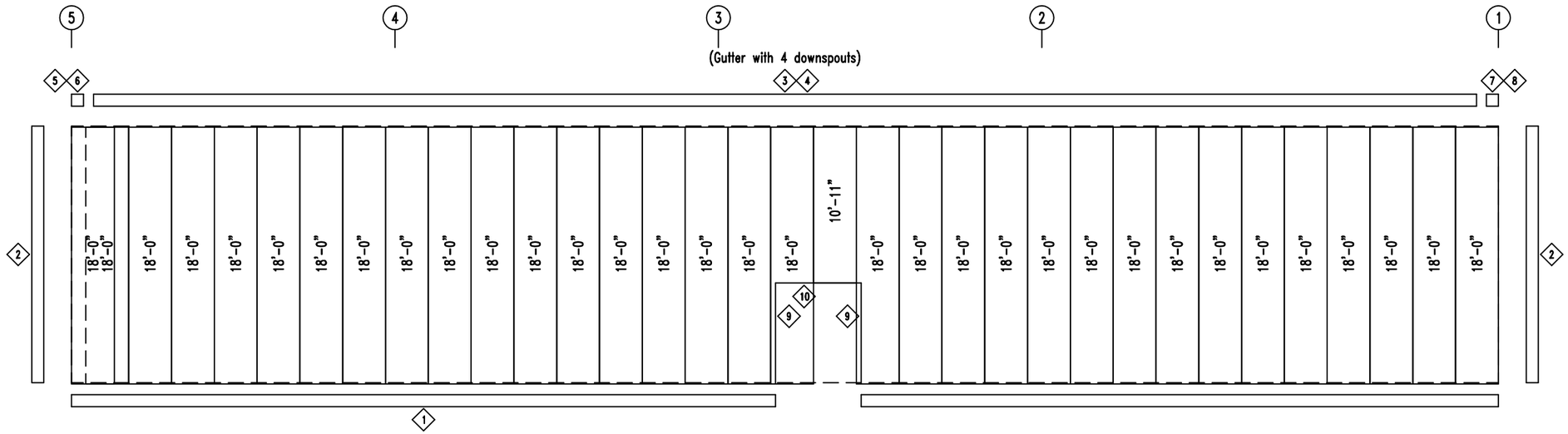


SIDEWALL FRAMING: FRAME LINE C

MEMBER TABLE FRAME LINE C		
MARK	PART	LENGTH
DJ-2	8X35C16	12'-2 3/4"
DH-1	8X25C16	5'-11 1/2"
E-2	10E14	22'-7 1/2"
E-4	10E14	22'-7 1/2"
E-5	10E14	31'-11 1/2"
G-9	8X25Z12	22'-0"
G-11	8X25Z12	22'-3 3/4"
G-12	8X35Z12	3'-4"
G-13	8X35Z12	22'-0"
G-14	8X35Z12	12'-0"
G-15	8X35Z12	31'-7 3/4"
CB-5	CB0250	28'-2"

TRIM TABLE FRAME LINE C		
◇ID	PART	LENGTH
1	FL-60	20'-2"
2	FL-10	18'-0"
3	FL-32	20'-2"
4	FL-31	20'-2"
5	FL-32L	11'-2"
6	FL-33L	8"
7	FL-32R	11'-2"
8	FL-33R	8"
9	FL-48	7'-3"
10	FL-52	6'-4"

CONNECTION PLATES FRAME LINE C	
□ID	MARK/PART
1	CL-104
2	CL-103
3	CL-100

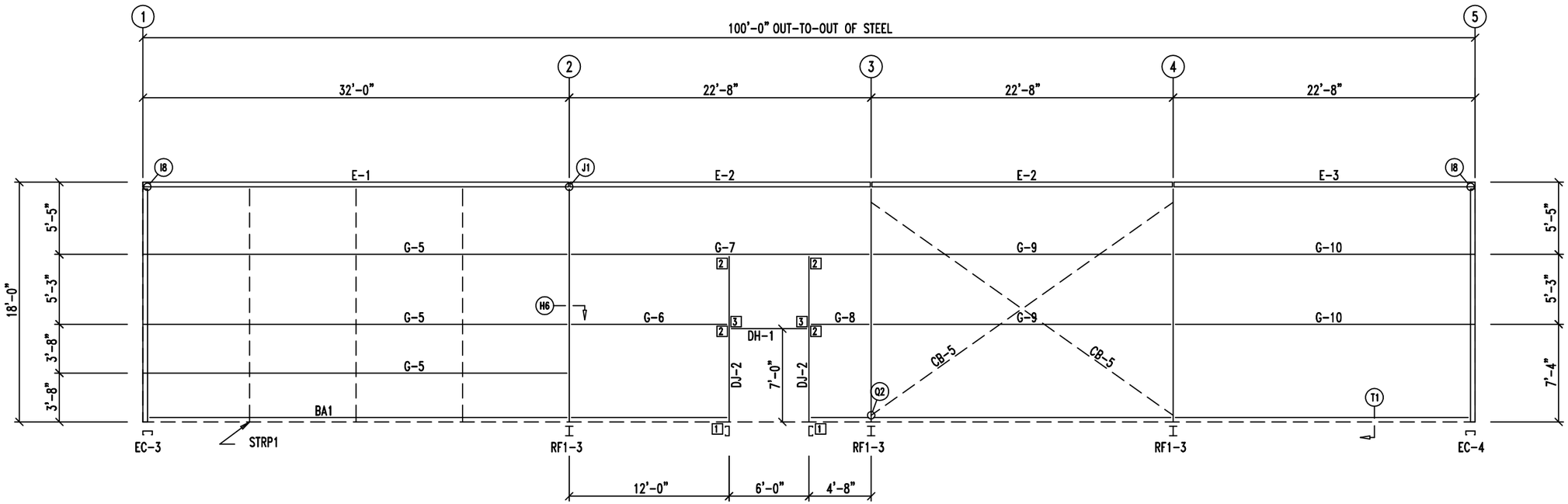


SIDEWALL SHEETING & TRIM: FRAME LINE C

PANELS: 26 Ga. PBR - Need Std. Color

APEX METAL BUILDING SYSTEMS
120 Connor St NE
Live Oak, FL 32064
Ph. 800-231-0026
www.apex-mbs.com

DESCRIPTION: SIDEWALL ELEVATION						
CUSTOMER:					PROJECT: New Generation Gym	
LOCATION: Lake City, FL 32025						
DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
JB	JB	10/ 1/20	N.T.S.	00	20-547	10 of 13

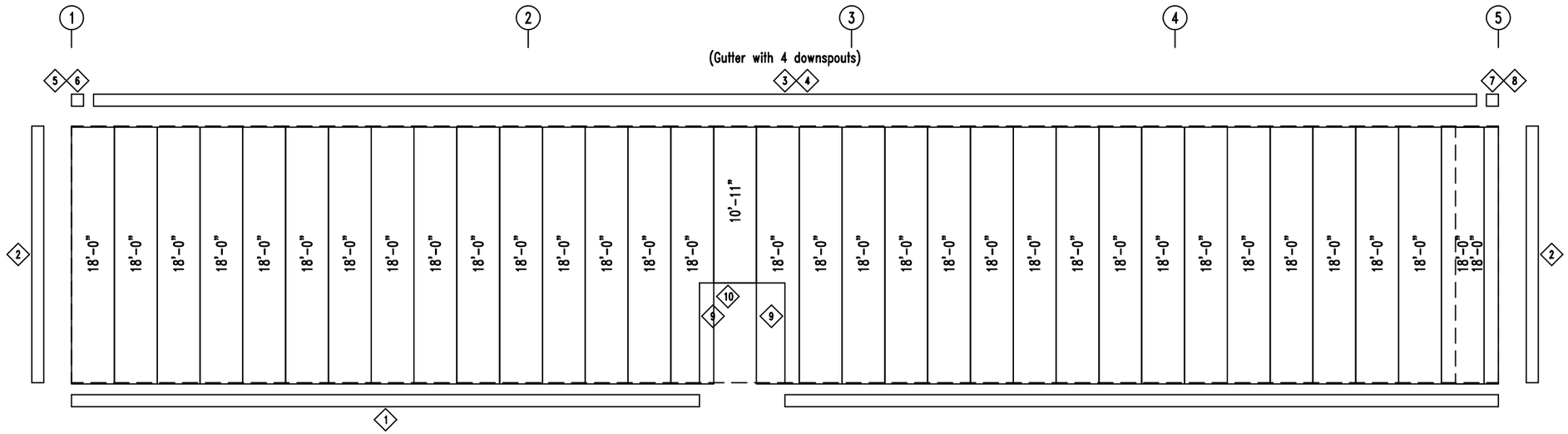


SIDEWALL FRAMING: FRAME LINE A

MEMBER TABLE FRAME LINE A		
MARK	PART	LENGTH
DJ-2	8X35C16	12'-2 3/4"
DH-1	8X25C16	5'-11 1/2"
E-1	10E14	31'-11 1/2"
E-2	10E14	22'-7 1/2"
E-3	10E14	22'-7 1/2"
G-5	8X35Z12	31'-7 3/4"
G-6	8X35Z12	11'-4"
G-7	8X35Z12	22'-0"
G-8	8X35Z12	4'-0"
G-9	8X25Z12	22'-0"
G-10	8X25Z12	22'-3 3/4"
CB-5	CB0250	28'-2"

TRIM TABLE FRAME LINE A		
◇ID	PART	LENGTH
1	FL-60	20'-2"
2	FL-10	18'-0"
3	FL-32	20'-2"
4	FL-31	20'-2"
5	FL-32L	11'-2"
6	FL-33L	8"
7	FL-32R	11'-2"
8	FL-33R	8"
9	FL-48	7'-3"
10	FL-52	6'-4"

CONNECTION PLATES FRAME LINE A	
□ID	MARK/PART
1	CL-104
2	CL-103
3	CL-100



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. PBR – Need Std. Color

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Live Oak, FL 32064
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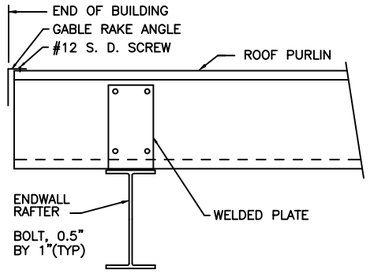
DESCRIPTION: SIDEWALL ELEVATION

CUSTOMER:

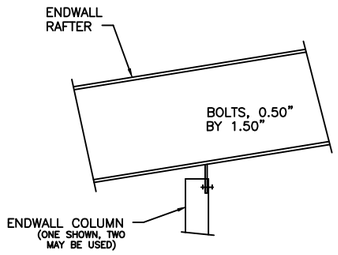
PROJECT: New Generation Gym

LOCATION: Lake City, FL 32025

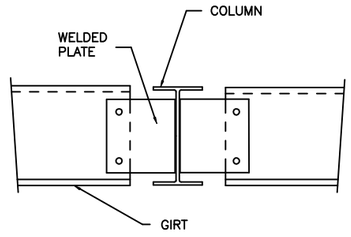
DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
JB	JB	10/ 1/20	N.T.S.	00	20-547	11 of 13



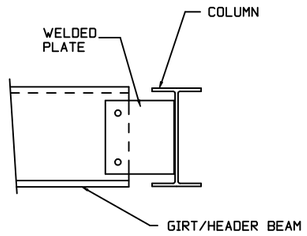
A7 SECTION THRU ENDWALL RAFTER



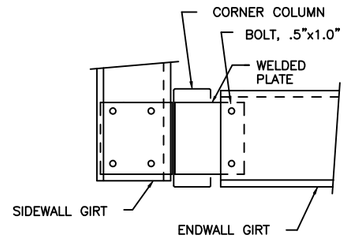
B4 ENDWALL RAFTER TO COLUMN



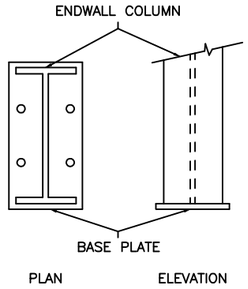
C6 GIRT TO COLUMN



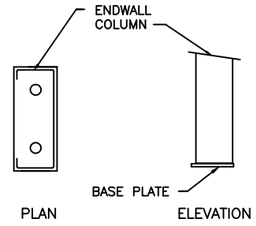
C15 GIRT/HEADER BEAM TO R/W COLUMN



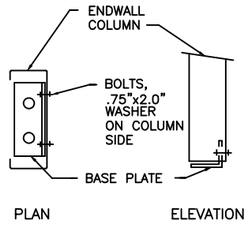
D4 CORNER COLUMN TO WALL GIRT



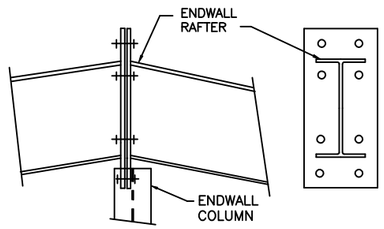
E3 BASE PLATE FOR ENDWALL COLUMN



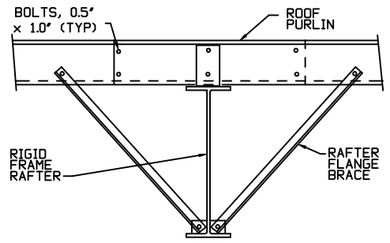
E5 BASE PLATE TO ENDWALL COLUMN OR DOOR JAMB



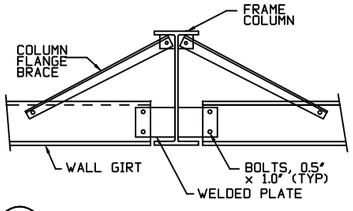
E6 BASE PLATE FOR ENDWALL COLUMN OR DOOR JAMB



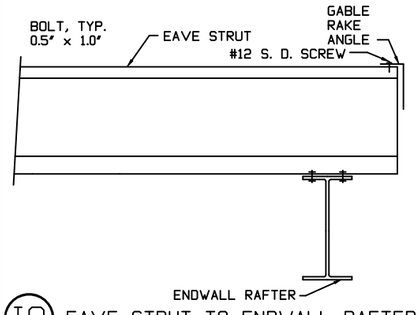
F20 RAFTER SPLICE AT SURFACE CHANGE



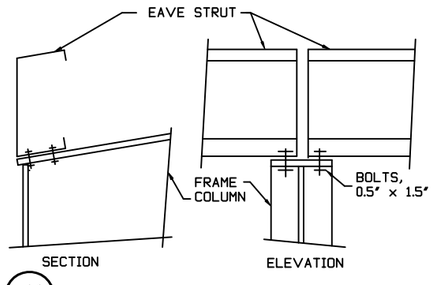
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



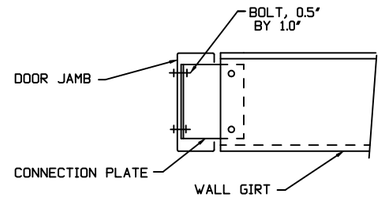
H6 WALL GIRT TO FRAME COLUMN



I8 EAVE STRUT TO ENDWALL RAFTER



J1 EAVE STRUT TO RIGID FRAME



K2 WALL GIRT TO DOOR JAMB

APEX METAL BUILDING SYSTEMS
120 Connor St NE
Live Oak, FL 32064
Ph. 800-231-0026
www.apex-mbs.com

DESCRIPTION: DETAIL DRAWINGS

CUSTOMER:

PROJECT: New Generation Gym

LOCATION: Lake City, FL 32025

DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
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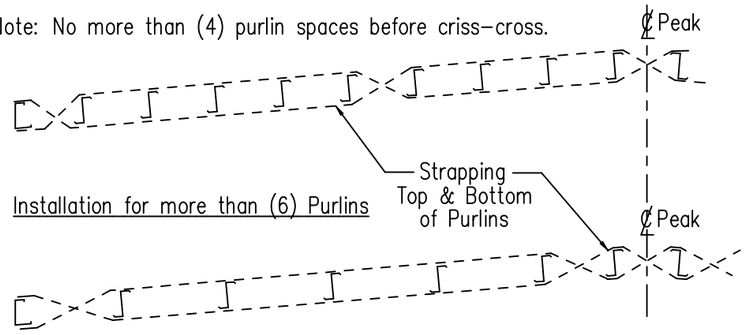
Note: No more than (4) purlin spaces before criss-cross.

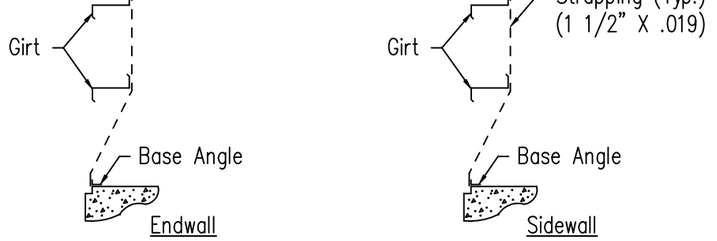


Installation for more than (6) Purlins

Installation for (6) or less Purlins

Roof Uplift Strap Installation
(Refer to Roof Plan for Locations)

Note: 1) Attach straps w/#10-16 x 1" pancake self driller (RF1) at purlins or girts.
2) No criss-cross straps in walls.

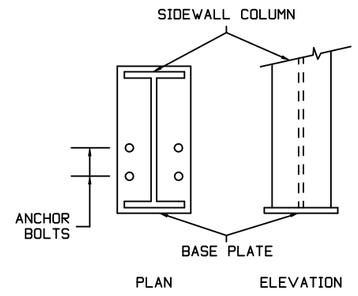


Wall Suction Strap Installation
(Refer to Wall Elevations for Location)

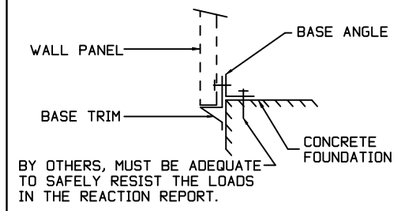
Roof Uplift and Wall Suction Strap Details

DRAWING NO. SD102

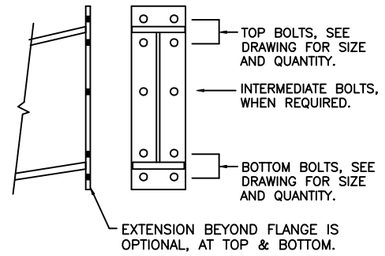
Created On: 9/28/12



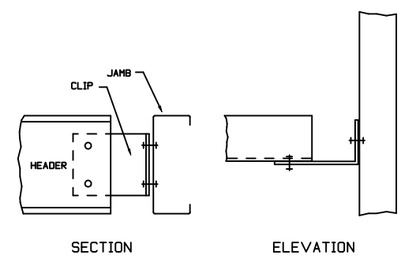
R2 ANCHOR BOLTS AT SIDEWALL COLUMN



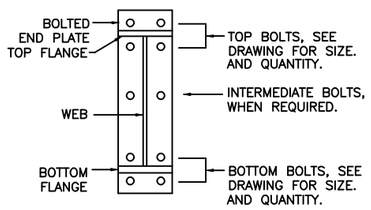
T1 SECTION THRU WALL PANEL AND CONCRETE FOUNDATION



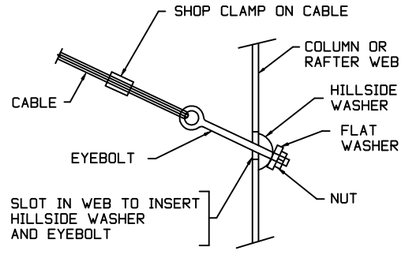
U2 BOLTED END PLATE CONNECTION AT BUILDING PEAK



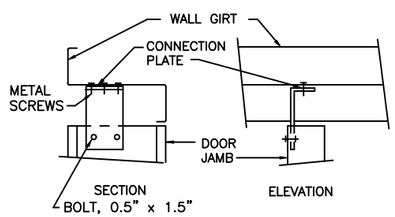
M1 HEADER TO C JAMB



U3 BOLTS FOR RAFTER TO COLUMN CONNECTION



Q2 DIAGONAL CABLE, EYEBOLT END



L6 DOOR JAMB TO WALL GIRT

APEX METAL BUILDING SYSTEMS
120 Connor St NE
Live Oak, FL 32064
Ph. 800-231-0026
www.apex-mbs.com

DESCRIPTION: DETAIL DRAWINGS

CUSTOMER:

PROJECT: New Generation

LOCATION: Lake City, FL 32025

DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
JB	JB	10/ 1/20	N.T.S.	00	20-547	13 of 13