TOWER STEEL BUILDINGS

LP BUILDING – PORT PERRY

FO# 26321

Building 2 of 2

08/31/2022

T&Z Consulting Services, LLC
Ontario CofA No. 100521725

8 Easy Street
Port Perry, ON L9L 1B2

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GENERAL

All materials included in the Metal Building System are in accordance with the manufacturer's standard materials and details unless otherwise specified on the order documents. (MBMA 2018 Metal Building Systems Manual, Part IV, Section 2.1)

DESIGN RESPONSIBILITY

The manufacturer is responsible only for the structural design of the Metal Building System it sells to the purchaser / customer. Neither the manufacturer nor the manufacturer's engineer is the design professional or engineer of record for the construction project. The manufacturer is not responsible for the design of any component or materials not sold by it, or their interface and connection with Metal Building System unless such design responsibility is specifically required by the order documents. (MBMA 2018 Metal Building Systems Manual, Part IV, Section 3.1)

FOUNDATION DESIGN AND ANCHOR BOLTS

The manufacturer is not responsible for the design, materials, and workmanship of the foundation. The anchor bolt plans prepared by the manufacturer are intended to show only the anchor bolt location, diameter (based on ASTM A36 bolts), and quantity required to connect the Metal Building System to the foundation. (MBMA 2018 Metal Building Systems Manual, Part IV, Section 3.2.2).

It is the responsibility of the end customer to ensure that adequate provisions are made for specifying bolt embedment, bearing angles, tie rods, and / or associated items embedded in the concrete foundation, as well as foundation design based on the loads imposed by the Metal Building System, or other imposed loads, and the bearing capacity of the soil and other conditions of the building site. (MBMA 2018 Metal Building Systems Manual, Part IV, Section 3.2.2)

U.S. –Anchor bolts shall be accurately set to a tolerance of +/– 1/8 in both elevation and location (AISC Code of Standard Practice for Steel Buildings and Bridges).

Canada –Anchor bolts shall be accurately set in accordance with CISC Code of Standard Practice, June 2008, Clause 7.7.1

ADJACENT EXISTING BUILDINGS

The manufacturer does not investigate the influence of the Metal Building System on adjacent existing buildings or structures. The end customer assures that such buildings and structures are adequate to resist snow loads or other conditions as a result of the presence of the Metal Building System. (MBMA 2018 Metal Building Systems Manual, Part IV, Section 3.2.5)

SHOP-PRIMED STEEL

All structural members of the Metal Building System not fabricated of corrosion resistant material or protected by corrosion resistant coating are painted with one coat of shop primer. All surfaces to receive shop primer are cleaned of loose rust, loose mill scale and other foreign matter by using, as a minimum the hand tool cleaning method SSPC–SP2 (Steel Manual, Structures Painting Council) prior to painting. The coat of shop primer is intended to protect the steel framing for only a short period of exposure to ordinary atmospheric conditions. Shop–primed steel should be placed on blocking to prevent contact with the ground, and so positioned as to minimize water holding pockets, dust, mud an other contamination of the primer film. Repairs of damage to primed surfaces and or removal of foreign material due to improper field storage or site conditions are not the responsibility of the manufacturer. (CISC Code of Standard Practice, June 2008, Clause 6.8; (MBMA 2018 Metal Building Systems Manual, Part IV, Section 4.2.4).

ERECTION–GENERAL

The erector, by entering into contract to erect the building, holds itself out as skilled in the erection of Metal Building Systems and is responsible for complying with all applicable local, federal, and state construction and safety regulations including OSHA regulations as well as any applicable requirements of local, national, or international union rules or practices. (CISC Code of Standard Practice, June 2008, Clause 7.2; (MBMA 2018 Metal Building System Manual, Part IV, Section 6.9).

The erector shall erect the Metal Building System in accordance with the erection drawings, the Erection and Detail Manual (February 2012), and / or the Seam–Lok Technical – Erection manual (May 2012) as furnished by the manufacturer. The aforementioned erection information is intended to illustrate the layout of the framing members, provide the associated connection details, and suggests sequence of erection. It is not intended to specify any particular method of erection to be followed by the erector. The erector remains solely responsible for the safety and appropriateness of all techniques and methods utilized by its crews in the erection of the Metal Building System. The erector is responsible for supplying any safety devices such as scaffolds, runways, nets, et, which may be required to safely erect the Metal Building System. (MBMA 2018 Metal Building Systems Manual, Part IV, Section 6.9) The manufacturer expressly disclaims any responsibility for injury to persons in the course of erection or for damages to the product itself. Field erection of a Pre–Engineered Metal Building, as in all construction projects, involves hazards to persons within the area of the construction and risk of damage to the property itself. Only experienced persons who are skilled and qualified in the erection of Metal Building Systems should be permitted to field–erect a building due to the hazards of this construction activity. The manufacturer is not responsible for the erection of the Metal Building System, the supply of any tools or equipment, or any other field work. The manufacturer provides no field supervision for the erection of the structure nor does the manufacturer perform any intermediate or final inspections of the Metal Building System during or after erection.

The erector shall furnish temporary guys and bracing where needed for squaring, plumbing, and securing the structural framing against loads, such as wind loads acting on the exposed framing as well as loads due to erection equipment and erection operation, but not including loads resulting from the performance of work by others. Bracing furnished by the manufacturer for the Metal Building System cannot be assumed to be adequate during erection. Temporary supports such as temporary guys, braces, false work, cribbing, or other elements required for the erection operation will be determined, erected, and installed by the erector. (AISC Code of Standard Practice for Steel Buildings and Bridges, April 14, 2010, Section 7.10.3; CISC Code of Standard Practices, June, 2008, Clause 1.5; MBMA 2018 Metal Buildings System Manual, Part IV, Section 6.2.1.5).

ERECTION TOLERANCES

U.S. ; Erection tolerances are those set forth in AISC code of standard practice except individual members are considered, plumb, level and aligned if the deviation does not exceed 1:500. (AISC Code of Standard Practice for Steel Buildings and Bridges April 14, 2010 Section 7.13.1; MBMA 2018 Metal Building Systems Manual, Part IV, Section 6.8)

Canada; Erection tolerances are those set forth in CISC Code of Standard Practice except individual members are considered plumb, level and aligned if the deviation does not exceed 1:500. (CISC Handbook of Steel Construction, Tenth Edition, Second Revised Printing, Part 1, Clause 29.3; MBMA 2018 Metal Building Systems Manual, Part IV, Section 6.8)

BOLT TIGHTENING

The proper tightening and inspection of all fasteners is the responsibility of the erector (Reference RCSC for structural joints using high strength bolts; August 1, 2014). All high strength (ASTM F3125, A325, A490) bolts and nuts must be tightened by the "turn–of–the–nut" method unless otherwise specified by the end customer in the contract documents. Inspection of high strength bolt and nut installation by other than the erector must also be specified in the contract documents and the erector is responsible for ensuring that the installation procedures are compatible prior to the start of erection (CISC Handbook of Steel Construction, Tenth Edition, Second Revised Printing, Part 1, Clause 23.8.2), (MBMA 2018 Metal Building Systems Manual, Part IV, Section 6.9).

MATERIALS	ASTM DESIGNATION	MINIMUM YIELD	MATERIALS	ASTM DESIGNATION	MINIMUM YIELD
Hot–Rolled Mill Sections	A 36, A 572, A 992	Fy = 36 ksi and/or 50 ksi	Roof and Wall Sheeting	A 792, Gr. 50 Class 1 A 792, Gr. 80	Fy = 50 ksi Fy = 80 ksi
Structural Steel Plates	A 572, A 1011	Fy = 55 ksi	Mild Steel Bolts	A 307	Fy = 36 ksi
Structural Steel Bars	A 572 or A 529	Fy = 55 ksi	High Strength Bolts	F3125: A 325–N A 490–N	Fy = 92 or 81 ksi N/A
Cold Formed Light Gauge Shapes	A 653 Gr. 55	Fy = 55 ksi	Anchor Rods (If supplied)	A 36	Fy = 36 ksi
Cable Bracing	A 475, EHS	N/A	Pipe and Hollow Structural Sections	A 500 Gr. B	Fy = 42 ksi, 46 ksi
Rod Bracing	A 36	Fy = 36 ksi			

CORRECTION OF ERRORS AND REPAIRS

The correction of minor misfits by the use of drift pins to draw the components into line, shimming, moderate amounts of reaming, chipping, and cutting, and the replacement of minor shortages of material are a normal part of erection and are not subject to claim. (AISC Code of Standard Practice for Steel Buildings and Bridges, April 14, 2010, Section 7.14; CISC Code of Standard Practice, June 2008, Clause 7.15; MBMA 2018 Metal Building Systems Manual, Part IV, Section 6.10).

DRAWING DISCREPANCIES

In case of discrepancies between the manufacturers steel plans and plans for other trades, the manufacturers steel plans govern. (AISC Code of Standard Practice for Steel Buildings and Bridges, April 14, 2010, Section 3.3; CISC Code of Standard Practice, June 2008, Clause 3.4; MBMA 2018 Metal Building Systems Manual, Part IV, Section 3.1).

DELIVERIES

Delivery of any material by the manufacturers carrier, a common carrier, or to purchasers/ customers own leased, chartered, or authorized conveyance shall constitute delivery to builder, and thereafter, such material shall be at builders risk. If builder chooses to use its own, or private carrier, it shall be solely responsible for compliance with all applicable government regulations. All charges shall be borne by the builder. The manufacturers responsibility for damage or loss ceases upon delivery of shipment to carrier. The manufacturer will endeavor to deliver on the required date. The manufacturers truck is not considered as being late if deliveries are between 8am – 12pm (morning) and 12pm – 5pm (afternoon). However, the manufacturer cannot be held responsible for circumstances beyond our control. For deliveries via the manufacturers truck, the manufacturer will only honor claims that were approved by the customer service department at the time of delivery. For deliveries via contract carriers, it is the responsibility of the customer to file claims with the carrier. The manufacturer cannot assume any liability for the claim.

SHORTAGES

The purchaser /customer should make an inspection upon arrival of all building components. The purchaser/customer must note on the freight bill any missing item(s) and notify the manufacturers customer service department immediately; otherwise, the manufacturer cannot be held responsible for any shortages. If any item is damaged, note on the bill of lading and file a claim with the freight agent. Concealed shortages must be reported to the manufacturers customer service department within the following time frames (date from receipt of first delivery), based on the project shipment size, i.e., number of truck loads used in delivery.

1 to 3 loads....2 weeks 4 loads and over....3 weeks The manufacturers responsibility for shortages expires at the end of these time periods.

FABRICATION ERRORS

The purchaser/customer is responsible for contacting the customer service department to advise the manufacturer of fabrication problems and corresponding cost estimates. The manufacturer will be responsible for providing the builder with verbal approval to proceed with appropriate field corrections. This will be done in a timely manner. IF THE BUILDER PROCEEDS WITH CORRECTIVE WORK WITHOUT THE MANUFACTURERS APPROVAL, HE DOES SO AT HIS OWN RISK. The manufacturer shall not be responsible for any claims where the purchaser/customer has not documented the problem, its correction, and reasonable costs for repair, and submitted this documentation for payment within 30 days of the occurrence.

INVOICE PAYMENT

By acceptance of the materials of services set forth in the invoice, the purchaser/customer agrees to pay the invoice amount within the time period specified on the invoice. AT NO TIME IS IT ACCEPTABLE TO DEDUCT A BACK CHARGE OR SHORTAGE FROM AN INVOICE.

SAFETY PROCEDURES

The manufacturer is committed to manufacturing a quality product that can be erected safely. Although good job site practices and a commitment to safety by the erector are beyond the control of the manufacturer, the manufacturer highly recommends the erector provide good, safe working conditions on the job site. The erector should follow all local, state, and federal health and safety regulations at all times. Accident prevention practices should be implemented and each employee should know emergency procedures. The manufacturer also recommends daily meetings to discuss erection safety procedures. For additional information concerning federal health and safety regulations, contact the occupational safety and health administration (osha).

U.S. Department of Labor
Occupational Safety and Health Administration
200 Constitution Avenue, N.W.
Washington, DC 20210
www.osha.gov

The manufacturer shall not be responsible for personal injury or property damage as a result of failure to follow all applicable safety regulations and material handling and installation recommendations.

TOWER STEEL BUILDINGS

LP BUILDING - PORT PERRY
60'-6" x 115'-5" x 14'-0"
DATE: 8/12/22 REVISION: 0
ENG: MQZ DWN: BJC APPD: AJR

F.O.26321

PERRY

REVISION HISTORY

REV.	DESCRIPTION	DATE

DRAWING STATUS

FOR APPROVAL:
THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

FOR PERMIT:
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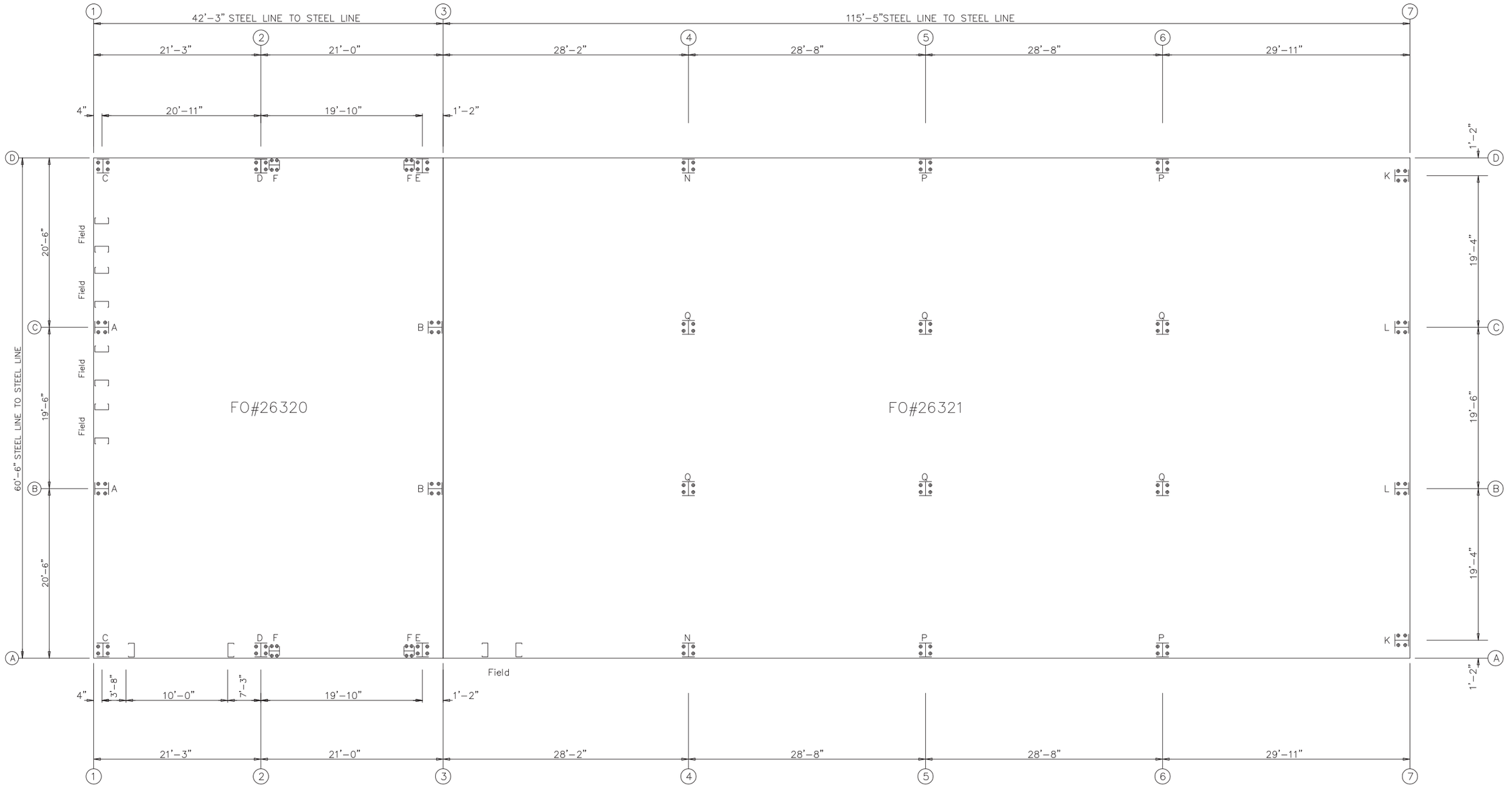
FOR CONSTRUCTION:
FINAL DRAWINGS.

LICENSED PROFESSIONAL ENGINEER
M. ZHU
100184641
PROVINCE OF ONTARIO

08/31/2022

LEGEND

BSW
LEW
REW
FSW



ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'–0" (U.N.)
Finished Floor @ 100'–0"

DRAWING IS NOT TO SCALE

TOWER STEEL BUILDINGS

LP BUILDING - PORT PERRY
60'-6" x 115'-5" x 14'-0"
DATE: 8/ 3/22 | REVISION: 0
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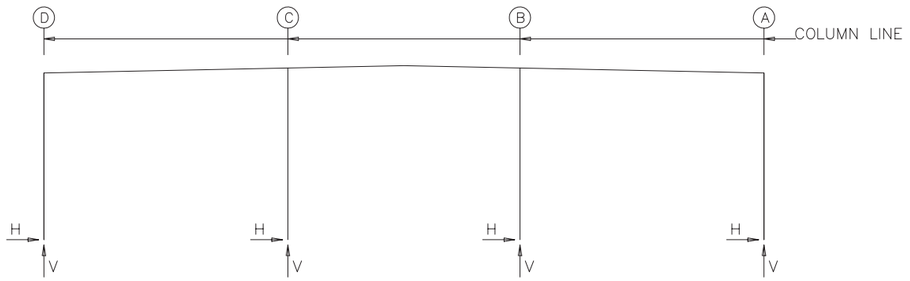
FINAL DRAWINGS.

LICENSED PROFESSIONAL ENGINEER
M. ZHU
100184641
PROVINCE OF ONTARIO

08/31/2022

FRAME LINES: 4 5 6



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Qty	Bolt Dia	Base Plate (in) Width	Length	Thick	AFF/BFF (in)
4	D	4	0.750	8.000	12.31	0.500	0.0
4	A	4	0.750	8.000	12.31	0.500	0.0
4	C	4	0.750	8.000	8.125	0.500	0.0
4	B	4	0.750	8.000	8.125	0.500	0.0

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Qty	Bolt Dia	Base Plate (in) Width	Length	Thick	AFF/BFF (in)
5	D	4	0.750	8.000	12.19	0.500	0.0
5	A	4	0.750	8.000	12.19	0.500	0.0
5	C	4	0.750	8.000	8.125	0.500	0.0
5	B	4	0.750	8.000	8.125	0.500	0.0

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Qty	Bolt Dia	Base Plate (in) Width	Length	Thick	AFF/BFF (in)
6	D	4	0.750	8.000	12.19	0.500	0.0
6	A	4	0.750	8.000	12.19	0.500	0.0
6	C	4	0.750	8.000	8.125	0.500	0.0
6	B	4	0.750	8.000	8.125	0.500	0.0

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Snow_Drift Horiz	Snow_Drift Vert	Wind_Left1 Horiz	Wind_Left1 Vert
4	D	0.3	2.2	0.3	1.4	1.1	6.1	2.5	14.0	0.3	1.5	−3.4	−6.8
4	A	−0.3	2.2	−0.3	1.4	−1.1	6.1	−2.5	14.0	−0.3	1.5	−3.4	−1.1
4	C	0.0	3.9	0.0	3.0	0.0	12.4	0.0	28.7	0.0	3.1	0.0	−5.9
4	B	0.0	3.9	0.0	3.0	0.0	12.4	0.0	28.7	0.0	3.1	0.0	−9.7

Frame Line	Column Line	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert
4	D	3.4	−1.1	−4.8	−3.0	2.0	2.8	1.3	−4.7	1.2	−3.5	−1.7	−1.4
4	A	3.4	−6.8	−2.0	2.8	4.8	−3.0	−1.2	−3.5	−1.3	−4.7	−1.7	1.4
4	C	0.0	−9.7	0.0	1.3	0.0	−2.5	0.0	−9.2	0.0	−6.1	0.0	2.1
4	B	0.0	−5.9	0.0	−2.5	0.0	1.3	0.0	−6.1	0.0	−9.2	0.0	−2.1

Frame Line	Column Line	Seismic_Right Horiz	Seismic_Right Vert	F1PAT_SL_1 Horiz	F1PAT_SL_1 Vert	F1PAT_SL_2 Horiz	F1PAT_SL_2 Vert	F1PAT_SL_3 Horiz	F1PAT_SL_3 Vert	F1PAT_SL_4 Horiz	F1PAT_SL_4 Vert	F1PAT_SL_5 Horiz	F1PAT_SL_5 Vert
4	D	1.7	1.4	0.8	7.1	−0.4	−0.9	0.8	0.9	0.5	6.2	0.4	−0.1
4	A	1.7	−1.4	−0.8	0.9	0.4	−0.9	−0.8	7.1	−0.4	−0.1	−0.5	6.2
4	C	0.0	−2.1	0.0	8.6	0.0	7.8	0.0	−2.0	0.0	16.4	0.0	5.8
4	B	0.0	2.1	0.0	−2.0	0.0	7.8	0.0	8.6	0.0	5.8	0.0	16.4

Frame Line	Column Line	F1UNB_SL_L Horiz	F1UNB_SL_L Vert	F1UNB_SL_R Horiz	F1UNB_SL_R Vert
4	D	1.9	13.6	1.9	7.5
4	A	−1.9	7.5	−1.9	13.6
4	C	0.0	28.8	0.0	14.3
4	B	0.0	14.3	0.0	28.8

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
5	D	0.3	2.1	0.2	1.4	1.0	5.9	2.3	13.7	−3.3	−6.7	3.4	−1.0
5	A	−0.3	2.1	−0.2	1.4	−1.0	5.9	−2.3	13.7	−3.4	−1.0	3.3	−6.7
5	C	0.0	3.8	0.0	2.9	0.0	12.3	0.0	28.4	0.0	−5.8	0.0	−9.6
5	B	0.0	3.8	0.0	2.9	0.0	12.3	0.0	28.4	0.0	−9.6	0.0	−5.8

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	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
5	D	−4.7	−2.9	2.0	2.7	1.3	−4.6	1.2	−3.4	−1.6	−1.4	1.6	1.4
5	A	−2.0	2.7	4.7	−2.9	−1.2	−3.4	−1.3	−4.6	−1.6	1.4	1.6	−1.4
5	C	0.0	1.2	0.0	−2.5	0.0	−9.1	0.0	−6.0	0.0	2.1	0.0	−2.1
5	B	0.0	−2.5	0.0	1.2	0.0	−6.0	0.0	−9.1	0.0	−2.1	0.0	2.1

Frame Line	Column Line	F2PAT_SL_1 Horiz	F2PAT_SL_1 Vert	F2PAT_SL_2 Horiz	F2PAT_SL_2 Vert	F2PAT_SL_3 Horiz	F2PAT_SL_3 Vert	F2PAT_SL_4 Horiz	F2PAT_SL_4 Vert	F2PAT_SL_5 Horiz	F2PAT_SL_5 Vert	F2UNB_SL_L Horiz	F2UNB_SL_L Vert
5	D	0.8	6.9	−0.3	−0.9	0.7	0.8	0.4	6.0	0.4	−0.1	1.8	13.3
5	A	−0.7	0.8	0.3	−0.9	−0.8	6.9	−0.4	−0.1	−0.4	6.0	−1.7	7.2
5	C	0.0	8.5	0.0	7.7	0.0	−2.0	0.0	16.2	0.0	5.7	0.0	28.4
5	B	0.0	−2.0	0.0	7.7	0.0	8.5	0.0	5.7	0.0	16.2	0.0	14.2

Frame Line	Column Line	F2UNB_SL_R Horiz	F2UNB_SL_R Vert
5	D	1.7	7.2
5	A	−1.8	13.3
5	C	0.0	14.2
5	B	0.0	28.4

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
6	D	0.3	2.1	0.2	1.4	1.0	6.1	2.4	14.0	−3.4	−6.8	3.5	−1.0
6	A	−0.3	2.1	−0.2	1.4	−1.0	6.1	−2.4	14.0	−3.5	−1.0	3.4	−6.8
6	C	0.0	3.9	0.0	3.0	0.0	12.6	0.0	29.0	0.0	−6.0	0.0	−9.8
6	B	0.0	3.9	0.0	3.0	0.0	12.6	0.0	29.0	0.0	−9.8	0.0	−6.0

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	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
6	D	−4.8	−3.0	2.0	2.8	1.4	−4.7	1.3	−3.5	−1.7	−1.4	1.7	1.4
6	A	−2.0	2.8	4.8	−3.0	−1.3	−3.5	−1.4	−4.7	−1.7	1.4	1.7	−1.4
6	C	0.0	1.2	0.0	−2.6	0.0	−9.3	0.0	−6.2	0.0	2.1	0.0	−2.1
6	B	0.0	−2.6	0.0	1.2	0.0	−6.2	0.0	−9.3	0.0	−2.1	0.0	2.1

Frame Line	Column Line	F3PAT_SL_1 Horiz	F3PAT_SL_1 Vert	F3PAT_SL_2 Horiz	F3PAT_SL_2 Vert	F3PAT_SL_3 Horiz	F3PAT_SL_3 Vert	F3PAT_SL_4 Horiz	F3PAT_SL_4 Vert	F3PAT_SL_5 Horiz	F3PAT_SL_5 Vert	F3UNB_SL_L Horiz	F3UNB_SL_L Vert
6	D	0.8	7.1	−0.3	−0.9	0.8	0.8	0.4	6.2	0.4	−0.1	1.8	13.6
6	A	−0.8	0.8	0.3	−0.9	−0.8	7.1	−0.4	−0.1	−0.4	6.2	−1.8	7.4
6	C	0.0	8.7	0.0	7.9	0.0	−2.0	0.0	16.5	0.0	5.8	0.0	29.0
6	B	0.0	−2.0	0.0	7.9	0.0	8.7	0.0	5.8	0.0	16.5	0.0	14.5

Frame Line	Column Line	F3UNB_SL_R Horiz	F3UNB_SL_R Vert
6	D	1.8	7.4
6	A	−1.8	13.6
6	C	0.0	14.5
6	B	0.0	29.0

TOWER STEEL BUILDINGS

LP BUILDING - PORT PERRY
60'-6" x 115'-5" x 14'-0"
DATE: 8/12/22 | REVISION: 0
ENG: MQZ | DWN: BJC | APPD: AJR

F.O. 26321

LP BUILDING - PORT PERRY

REVISION HISTORY

REV.	DESCRIPTION	DATE

DRAWING STATUS

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LICENSED PROFESSIONAL ENGINEER
M. ZHU
100184641
PROVINCE OF ONTARIO

08/31/2022

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow 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
7	A	1.2	0.8	3.4	7.8	0.0	−3.5	0.0	−2.1	0.0	−1.4	0.0	−0.1	−0.8
7	B	2.2	1.5	6.2	14.4	−2.9	−8.0	0.0	−2.3	−2.9	−4.4	0.0	1.3	−1.6
7	C	2.2	1.5	6.2	14.4	0.0	−2.3	2.9	−8.0	0.0	1.3	2.9	−4.4	−1.6
7	D	1.2	0.8	3.4	7.8	0.0	−2.1	0.0	−3.5	0.0	−0.1	0.0	−1.4	−0.8

Frm Line	Col Line	Wind Suct Horz	Wind Long1 Vert	Wind Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	E2UNB_SL_L− Horz	E2UNB_SL_L− Vert	E2UNB_SL_R− Horz	E2UNB_SL_R− Vert
7	A	0.5	−3.5	−3.5	0.0	0.0	0.0	0.0	0.0	7.8	0.0	3.9
7	B	1.0	−6.4	−6.4	−1.8	−1.2	0.0	1.2	0.0	13.5	0.0	8.1
7	C	1.0	−6.4	−6.4	0.0	1.2	1.8	−1.2	0.0	8.1	0.0	13.5
7	D	0.5	−3.5	−3.5	0.0	0.0	0.0	0.0	0.0	3.9	0.0	7.8

ANCHOR BOLT SUMMARY

	Qty	Locate	Dia (in)	Type
⊕	32	Endwall	3/4"	
⊕	48	Frame	3/4"	

BUILDING BRACING REACTIONS

Loc	Wall Line	Col Line	Reactions in plane of wall ± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	3	Braced by Adjacent							
F_SW	A	Braced by Adjacent							
R_EW	7	B,C	Bracing, see EW reactions						
B_SW	D	Braced by Adjacent							

(a)Wind bent in bay

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc._Bolt Qty	Anc._Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Base_Plate (in) Thick	AFF/BFF (in)
7	A	4	0.750	6.000	7.875	0.375	0.0
7	B	4	0.750	6.000	7.875	0.375	0.0
7	C	4	0.750	6.000	7.875	0.375	0.0
7	D	4	0.750	6.000	7.875	0.375	0.0

DESIGN INFORMATION

1. All loading conditions are examined and only the maximum / minimum H or V and the corresponding H or V are reported.
2. Positive reactions are 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:

DESIGN CRITERIA

Width (ft)	= 60.5
Length (ft)	= 116.92
Eave Height (ft)	= 14
Roof Slope (rise/12)	= 0.25:12
Building Code	= NBC 15
Local Code (State/Prov)	= ONBC 12 W/ 2020 AMEND
Dead Load (psf)	= 5.310
Collateral Load (psf)	= 5.00
Roof Live Load (psf)	= 21.00
Frame Live Load (psf)	= 21.00
Snow:	
Ground Snow Load (psf)	= 50.16
Snow Importance	= 1.0000
Associated Rain Load (psf)	= 8.36
Wind Exposure Factor	= 1.00
Slippery Roof	= N
Roof Snow Load (psf)	= 48.49
Wind:	
Wind (1/50) (psf)	= 9.2
Risk Category	= II − Normal
Importance − Wind	= 1.00
Wind Exposure	= O
Enclosure Classification	= 2
--Internal Pressure Coefficients--	
Pressure	= 0.30
Suction	= −0.45
----Components & Cladding----	
Design Pressure:	
Pressure (psf)	= 22.43
Suction (psf)	= −22.48

Equivalent Static Force Procedure.

SEISMIC CRITERIA

Seismic Importance	= 1.00
Risk Category	= II − Normal
Mapped Spectral Response Accelerations	
Sa (0.2)	= 0.144
Sa (0.5)	= 0.091
Sa (1.0)	= 0.053
Sa (2.0)	= 0.027
Sa (5.0)	= 0.0067
Sa (10.0)	= 0.0028
Site Class	= D
-------Base Shear-------	
Expanded Formula	= S(Ta)*Mv*Ie*W/(Rd*Ro)
Longitudinal Base Shear	(k) =13.15
Transverse Base Shear	(k) =11.71
--Seismic Response Coefficients--	
Frame	= 0.069
FSW	= 0.069
BSW	= 0.069
--Response Modification Factors--	
Frame	= 1.5
FSW	= 1.5
BSW	= 1.5

DEFLECTION LIMITS

ENDWALL COLUMN L/ 180
ENDWALL RAFTER (Live) L/ 180
ENDWALL RAFTER (Wind) L/ 180
WALL GIRTS L/ 90
PURLIN (LIVE) L/ 180
PURLIN (WIND) L/ 180
WALL PANEL L/ 90
ROOF PANEL (Live) L/ 180
ROOF PANEL (Wind) L/ 120
Main Frame (Horiz) H/ 60
Main Frame (Vert) L/ 180
WIND BRACING H/ 60
Main Frame (Crane) H/ 100
Main Frame (Seismic) H/ 40
SEISMIC BRACING H/ 40
PARTITION COLUMN L/ 120
PARTITION GIRT L/ 120
PARTITION PANEL L/ 120

TOWER STEEL BUILDINGS

LP BUILDING - PORT PERRY
60'-6" x 115'-5" x 14'-0"
DATE: 8/12/22 | REVISION: 0
ENG: MQZ | DWN: BJC | APPD: AJR

F.O. 26321

LP BUILDING - PORT PERRY

REVISION HISTORY

REV.	DESCRIPTION	DATE

DRAWING STATUS

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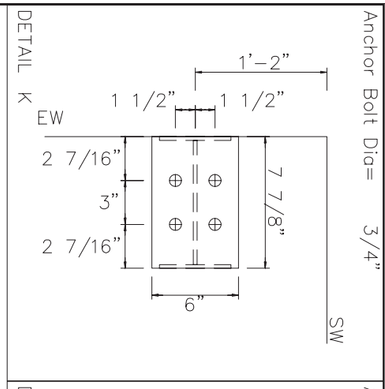

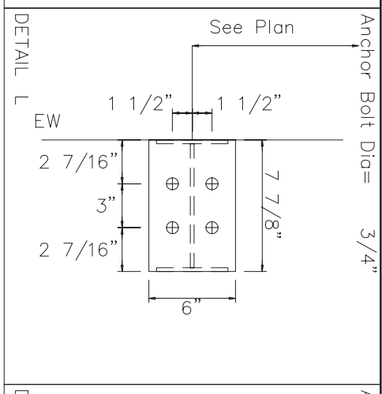

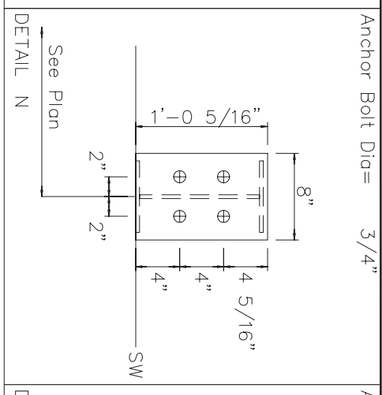

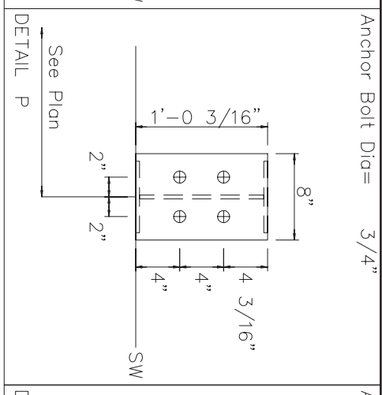

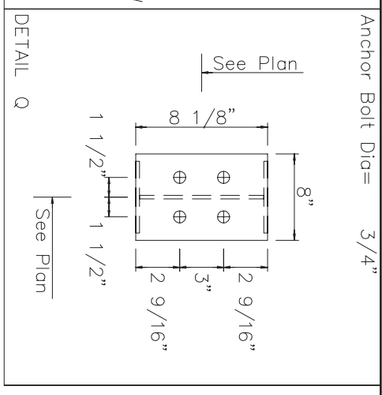

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LP BUILDING - PORT PERRY

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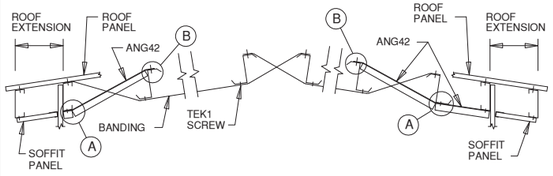
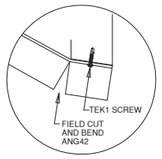
STANDARD PURLIN BRACING DETAIL FOR SCREW-DOWN PANELS

NOTE 1: SPACE BANDING EVENLY ACROSS BAYS

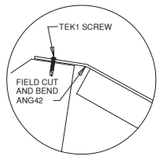


CONDITION 1:
FIRST PURLIN SPACE GREATER THAN 2'-0"

CONDITION 2:
FIRST PURLIN SPACE LESS THAN OR EQUAL TO 2'-0"



DETAIL A



DETAIL B

GENERAL NOTES:

1. Screw Down Roof: Use TEK5WW screws in place of SD150 panel screws at all 10 gage purlins, eave struts, or roof joists.
2. Standing Seam Roof: Use FST#6 in place of FST#1 clip to purlin screws at all 10 gage purlins, eave struts, or at roof joists.

NOTE(S):

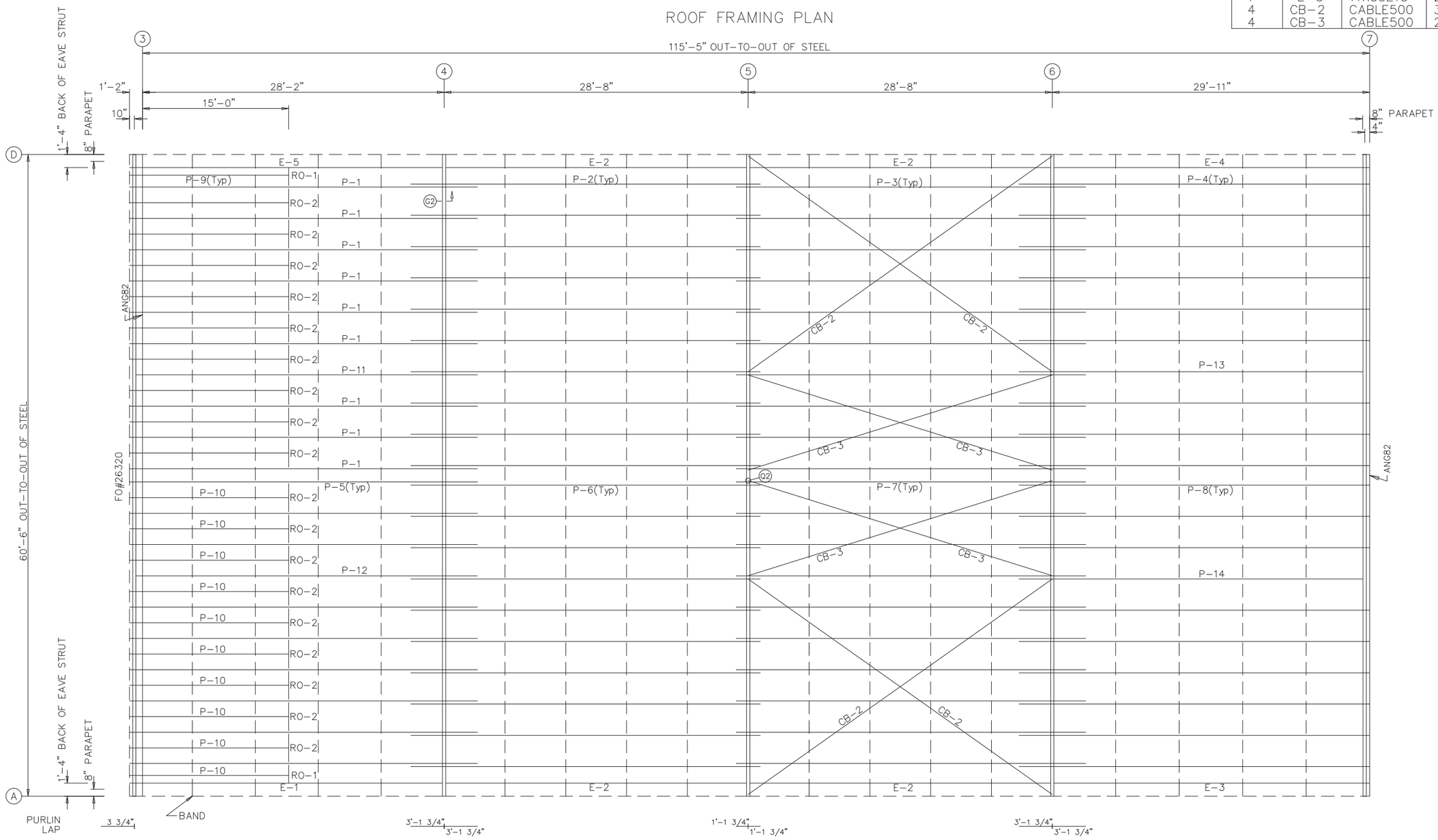
1.) ATTACH ROOF CORNER BLOCKING USING JC CLIPS AND (8) TEK1 OR TEK5 SCREWS PER CLIP (ROOF PANELS MUST ATTACH TO ROOF CORNER BLOCKING).
2.) INTERNAL GUTTER AND DOWNSPOUTS ARE SUPPLIED BY OTHERS.
3.) BUILDING IS DESIGNED WITH A SECONDARY DRAINAGE SYSTEM OF (1) 12" x 8" SCUPPER IN EACH BAY OF THE PARAPET.

DRAWING IS NOT TO SCALE

MEMBER TABLE
ROOF PLAN

QUAN	MARK	PART	LENGTH
2	RO-1	11X35C14	1'-1 1/8"
18	RO-2	11X35C14	2'-5 7/16"
9	P-1	11X25Z10	31'-11 1/2"
10	P-2	11X25Z10	32'-11 1/2"
10	P-3	11X25Z13	32'-11 1/2"
9	P-4	11X25Z12	33'-0 1/2"
9	P-5	11X25Z10	31'-11 1/2"
10	P-6	11X25Z10	32'-11 1/2"
10	P-7	11X25Z13	32'-11 1/2"
9	P-8	11X25Z12	33'-0 1/2"
10	P-9	11X25Z14	15'-7 3/4"
10	P-10	11X25Z14	15'-7 3/4"
1	P-11	11X25Z10	31'-3 1/2"
1	P-12	11X25Z10	31'-3 1/2"
1	P-13	11X25Z12	32'-4 5/8"
1	P-14	11X25Z12	32'-4 5/8"
1	E-1	11X35E13	28'-9 1/2"
4	E-2	11X35E13	28'-7 1/2"
1	E-3	11X35E13	29'-10 1/2"
1	E-4	11X35E13	29'-10 1/2"
1	E-5	11X35E13	28'-9 1/2"
4	CB-2	CABLE500	32'-4 3/16"
4	CB-3	CABLE500	27'-6 1/8"

ROOF FRAMING PLAN



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NOTE(S):
1.) INTERNAL GUTTER AND DOWNSPOUTS ARE SUPPLIED BY OTHERS.
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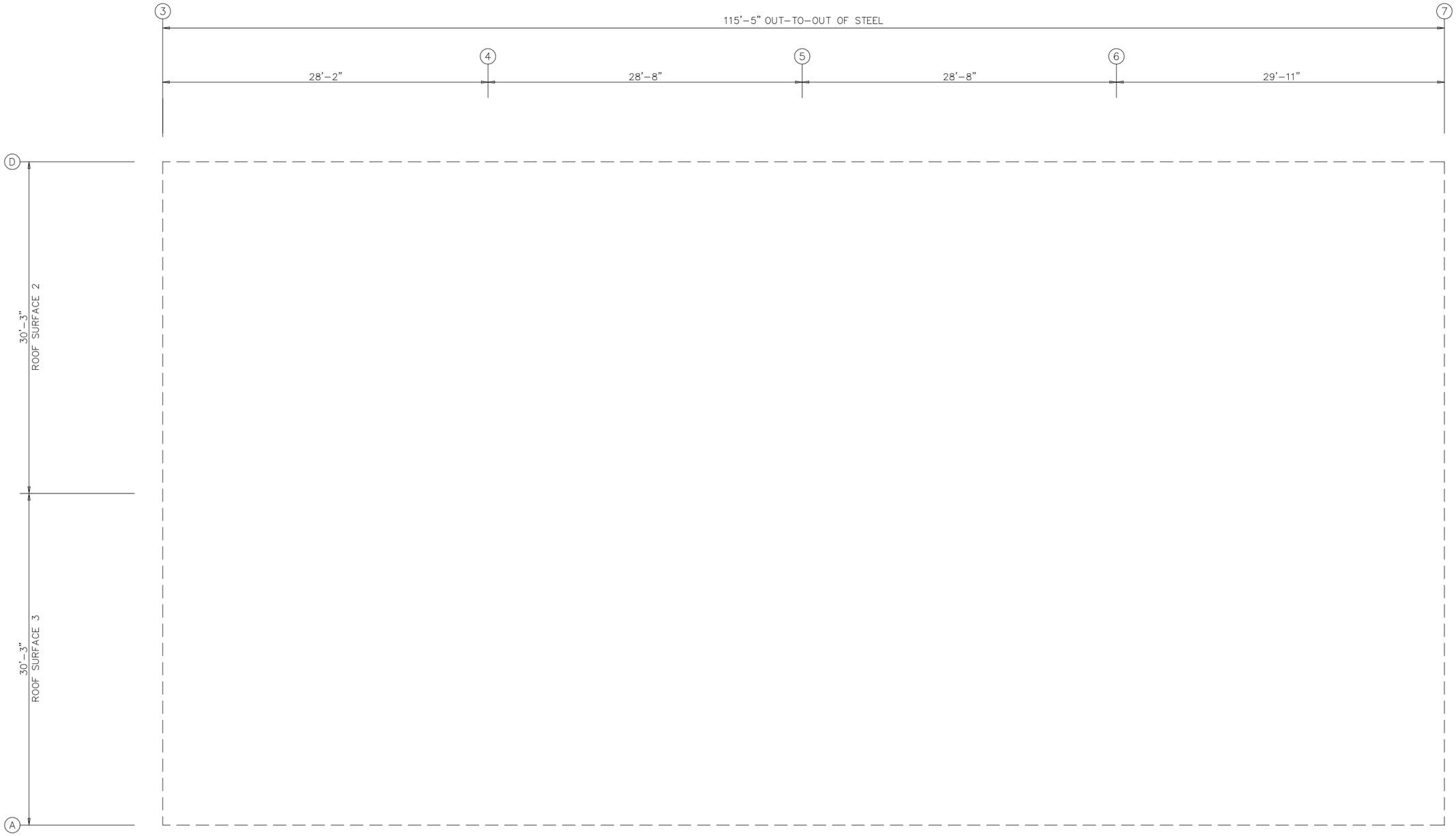

ROOF SHEETING PLAN
PANELS: ARPANEL D PUR/PIR 120 – By Others

GENERAL NOTES:

Panel "Start" and "End" dimensions must be followed for the proper installation of the gable trim(s) provided.

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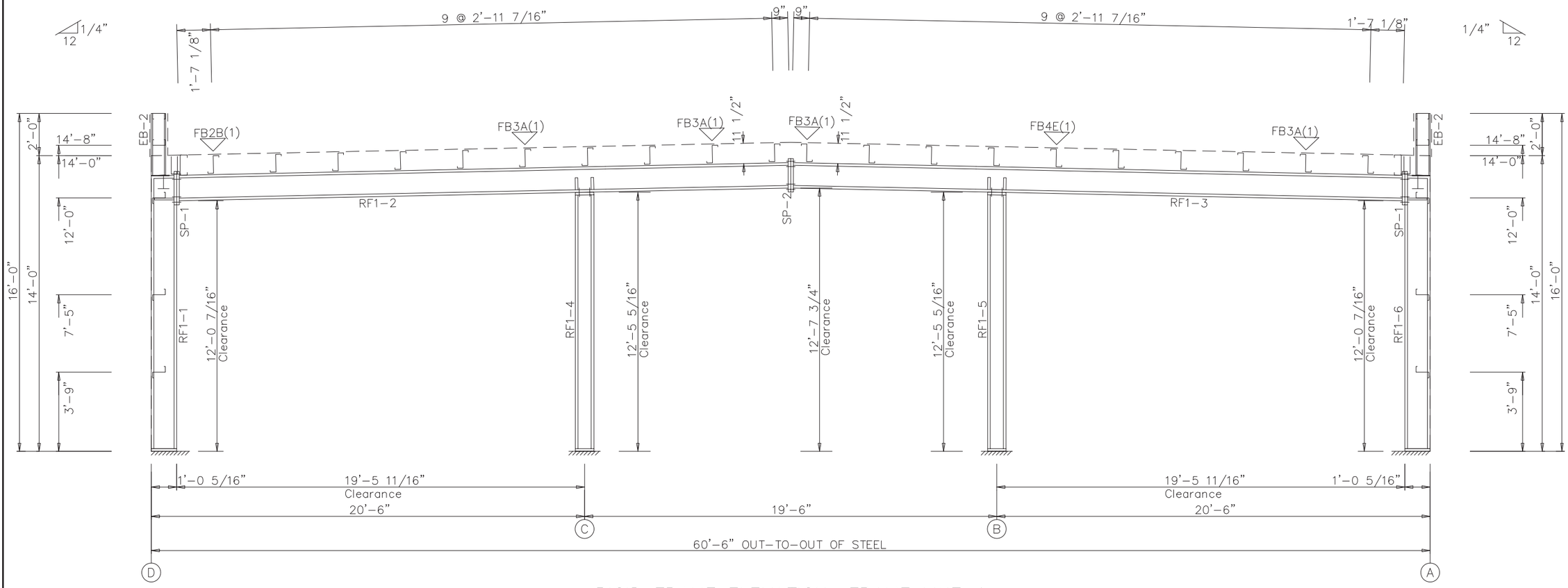
SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP–1	4	4	0	A325	0.750	2.50
SP–2	4	4	0	A325	0.500	1.50

CAP PLATE BOLTS				
Mark	Qty	Type	Dia	Length
RF1–4	4	A325	0.500	1.75
RF1–5	4	A325	0.500	1.75

MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
RF1–1	W12X30	13'–0 1/2"
RF1–2	W12X26	29'–2 1/4"
RF1–3	W12X26	29'–2 1/4"
RF1–4	W8X18	12'–5 3/8"
RF1–5	W8X18	12'–5 3/8"
RF1–6	W12X30	13'–0 1/2"
EB–2	W8X18	2'–11 1/2"

▽FLANGE BRACES: Both Sides(U.N.)
FBxxB(1)
B – L20X3/16
A – L15X1/8
E – L30X1/4



RIGID FRAME ELEVATION: FRAME LINE 4

GENERAL NOTES:

1. See Detail Sheets for Connection Information.
2. See Shipping List for Flange Brace Lengths.

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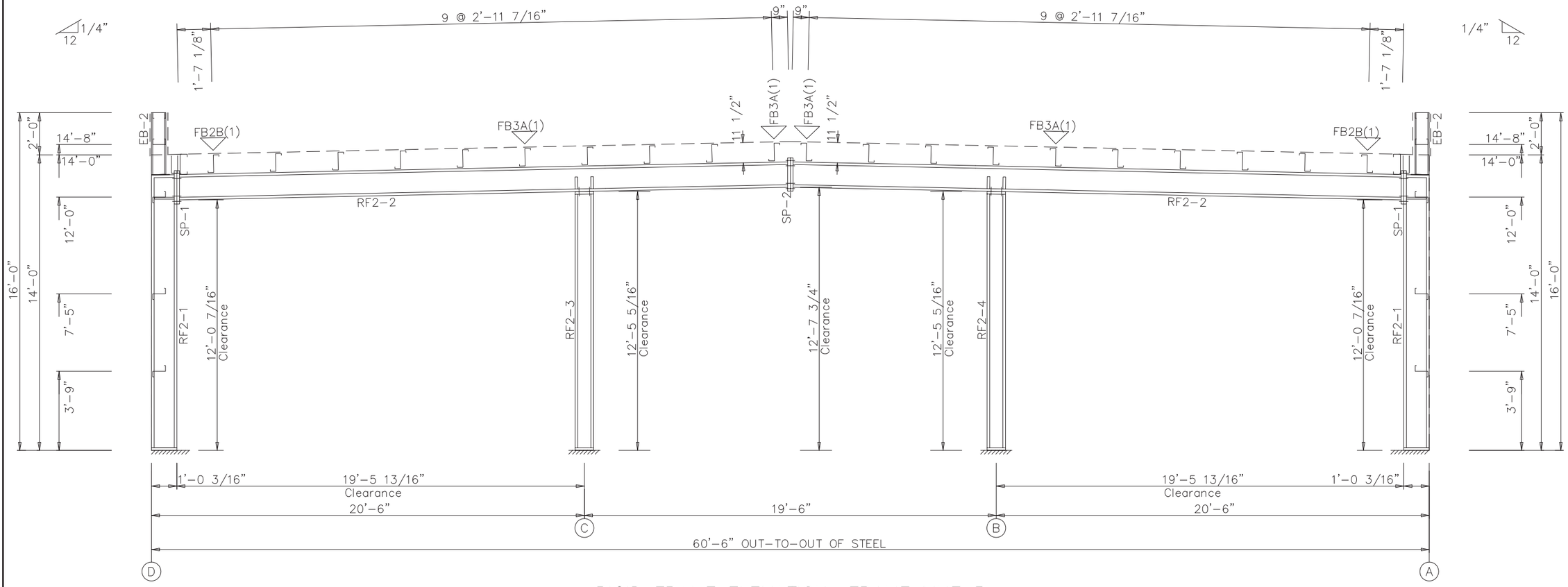
SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	0.750	2.50
SP-2	4	4	0	A325	0.500	1.50

CAP PLATE BOLTS				
Mark	Qty	Type	Dia	Length
RF2-3	4	A325	0.500	1.75
RF2-4	4	A325	0.500	1.75

MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
RF2-1	W12X26	13'-0 1/2"
RF2-2	W12X26	29'-2 3/8"
RF2-3	W8X18	12'-5 3/8"
RF2-4	W8X18	12'-5 3/8"
EB-2	W8X18	2'-11 1/2"

▽FLANGE BRACES: Both Sides(U.N.)
FBxxB(1)
B – L20X3/16
A – L15X1/8



RIGID FRAME ELEVATION: FRAME LINE 5

GENERAL NOTES:

1. See Detail Sheets for Connection Information.
2. See Shipping List for Flange Brace Lengths.

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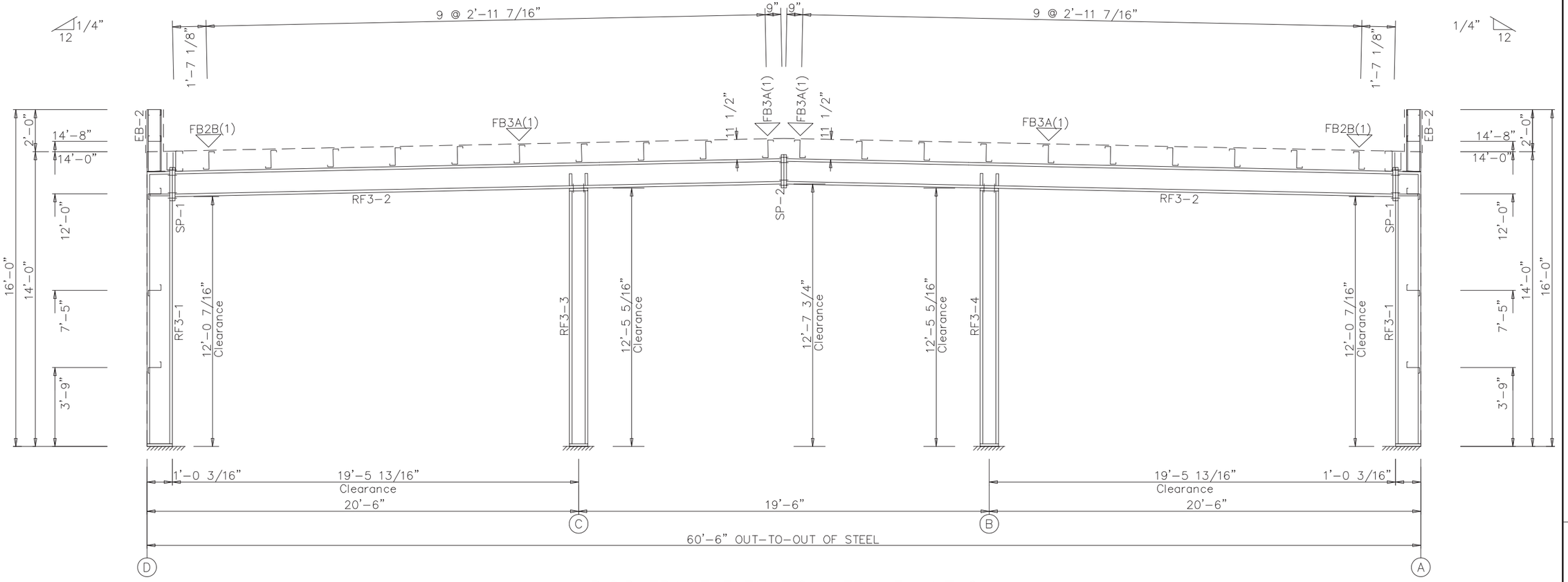
SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP–1	4	4	0	A325	0.750	2.50
SP–2	4	4	0	A325	0.500	1.50

CAP PLATE BOLTS				
Mark	Qty	Type	Dia	Length
RF3–3	4	A325	0.500	1.75
RF3–4	4	A325	0.500	1.75

MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
RF3–1	W12X26	13'–0 1/2"
RF3–2	W12X26	29'–2 3/8"
RF3–3	W8X18	12'–5 3/8"
RF3–4	W8X18	12'–5 3/8"
EB–2	W8X18	2'–11 1/2"

▽FLANGE BRACES: Both Sides(U.N.)
FBxxB(1)
B – L20X3/16
A – L15X1/8



RIGID FRAME ELEVATION: FRAME LINE 6

GENERAL NOTES:

1. See Detail Sheets for Connection Information.
2. See Shipping List for Flange Brace Lengths.

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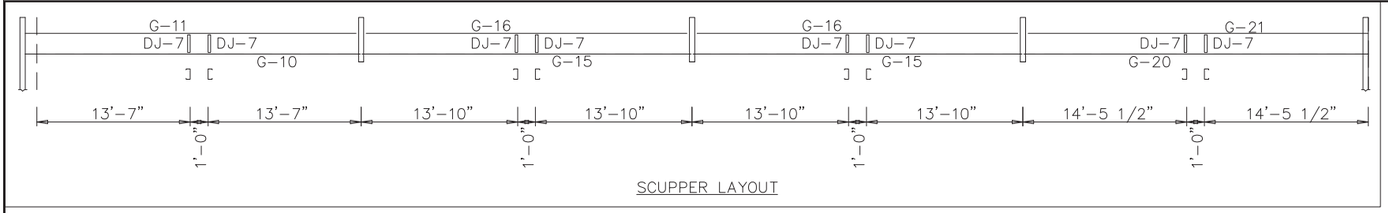


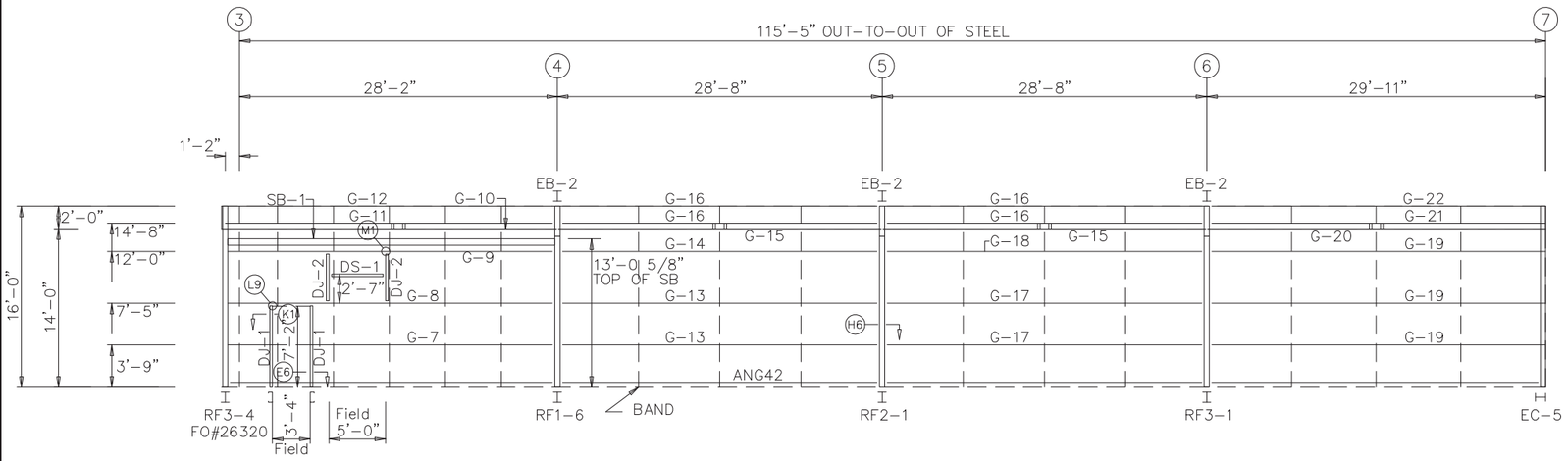
SCUPPER LAYOUT

BOLT TABLE
FRAME LINE A

LOCATION	QUAN	TYPE	DIA	LENGTH
EB-2	6	A325	1/2"	1 1/2"
SB/RF	2	A325	3/4"	1 3/4"

MEMBER TABLE
FRAME LINE A

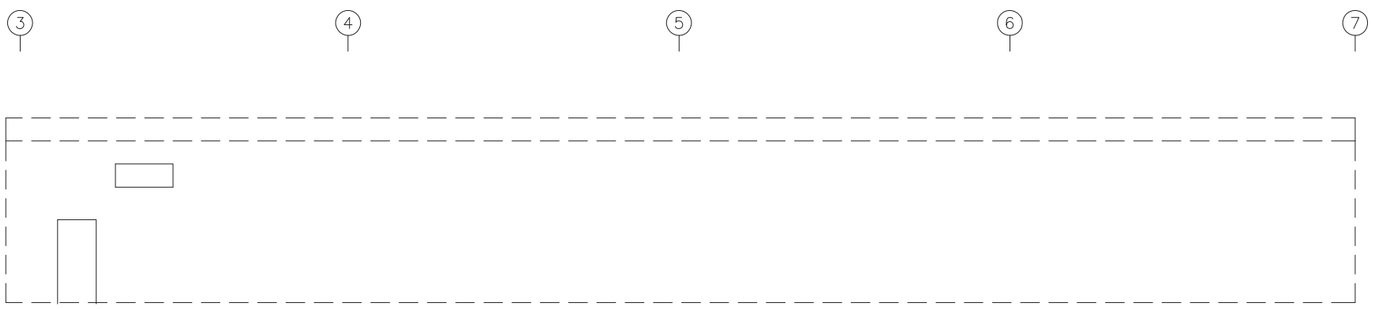
QUAN	MARK	PART	LENGTH
3	EB-2	W8X18	2'-11 1/2"
1	SB-1	W8X24	28'-11 11/16"
2	DJ-1	08X35C14	7'-4 3/4"
2	DJ-2	08X35C14	4'-6 1/2"
8	DJ-3	08X35C14	7 1/2"
1	DS-1	08X35C14	5'-0"
1	G-7	08X25Z12	28'-8"
1	G-8	08X25Z10	28'-8"
1	G-9	08X35C13	28'-8"
1	G-10	08X35C10	28'-8"
1	G-11	08X35C10	28'-8"
1	G-12	08X35C10	28'-8"
2	G-13	08X25Z10	28'-1"
1	G-14	08X25Z12	28'-1"
2	G-15	08X35C10	28'-1 1/2"
4	G-16	08X35C10	28'-1 1/2"
2	G-17	08X25Z10	28'-1 1/2"
1	G-18	08X25Z12	28'-1 1/2"
3	G-19	08X25Z10	29'-7 1/2"
1	G-20	08X35C10	29'-7 1/2"
1	G-21	08X35C10	29'-7 1/2"
1	G-22	08X35C10	29'-7 1/2"



SIDEWALL FRAMING: FRAME LINE A

PARAPET BACK SHEETING & TRIM: LINE A

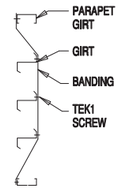
PANELS: By Others

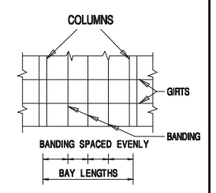


SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: ARPANEL SU PUR/PIR 100 – By Others

STANDARD GIRT BRACING DETAIL
FOR SIDEWALL GIRTS





BANDING REQUIREMENTS	
BAY WIDTH	RUNS REQ'D
AS SHOWN	AS SHOWN

DRAWING IS NOT TO SCALE

TRIM COLORS

EAVE TRIM	= By Others	CORNER TRIM	= By Others
BASE TRIM	= By Others	GUTTER	= By Others
DOOR TRIM	= By Others	DOWNSPOUTS	= By Others
RAKE TRIM	= By Others		
* LINER TRIM	= Liner panel color		
* SOFFIT TRIM	= Soffit panel color		

* ONLY APPLICABLE IF LINER TRIM OR SOFFIT PANEL IS INDICATED ON BUILDING ORDER.

GENERAL NOTES:

1. Use TEK5WW screws in place of SD150 panel screws at all 10 gage members.
2. All connections to door or window jambs where the clip is not designated in the clip table / drawing are made with JC# clips (#= Girt Depth).

TOWER STEEL BUILDINGS

LP BUILDING - PORT PERRY
60'-6" x 115'-5" x 14'-0"
DATE: 8/12/22 | REVISION: 0
ENG: MQZ | DWN: BJC | APPD: AJR

F.O. 26321

LP BUILDING - PORT PERRY

DRAWING STATUS

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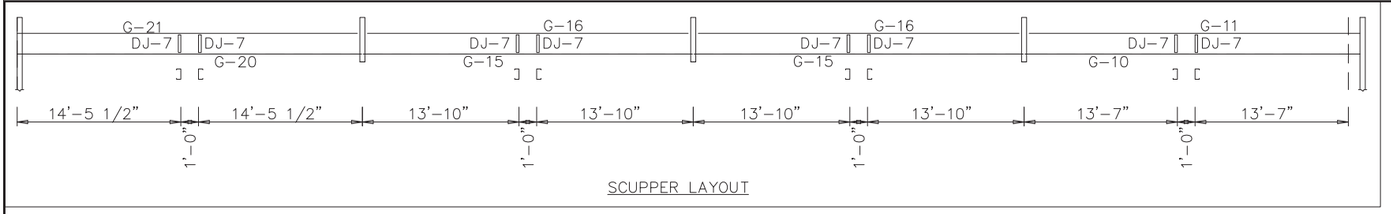
FOR CONSTRUCTION:
FINAL DRAWINGS.

REVISION HISTORY

REV.	DESCRIPTION	DATE

LICENSED PROFESSIONAL ENGINEER
M. ZHU
100184641
PROVINCE OF ONTARIO

08/31/2022



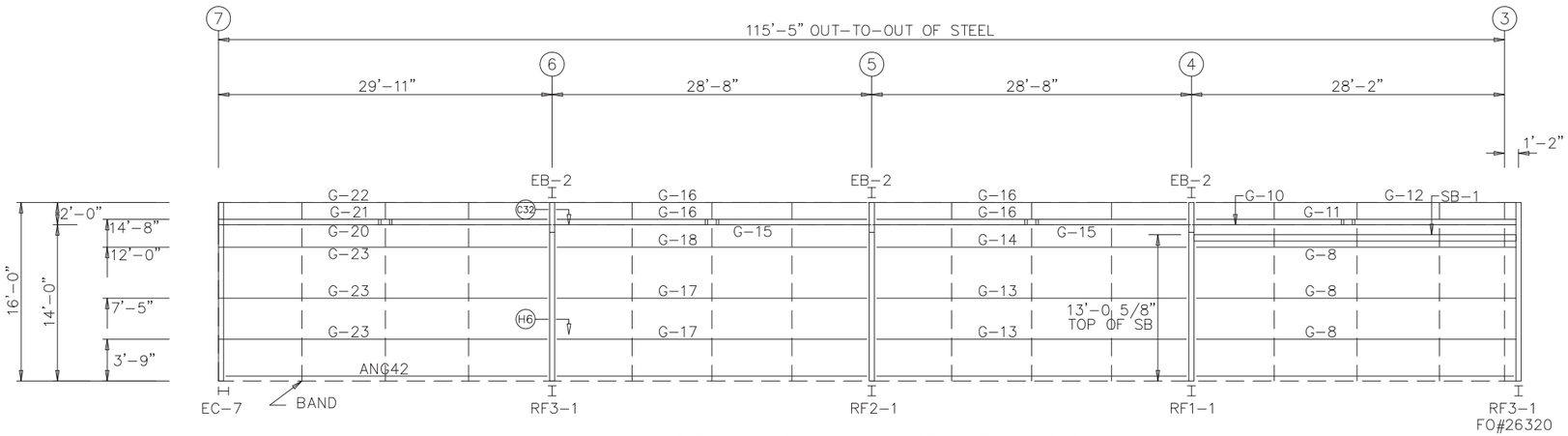
SCUPPER LAYOUT

BOLT TABLE
FRAME LINE D

LOCATION	QUAN	TYPE	DIA	LENGTH
EB-2	6	A325	1/2"	1 1/2"
SB/RF	2	A325	3/4"	1 3/4"

MEMBER TABLE
FRAME LINE D

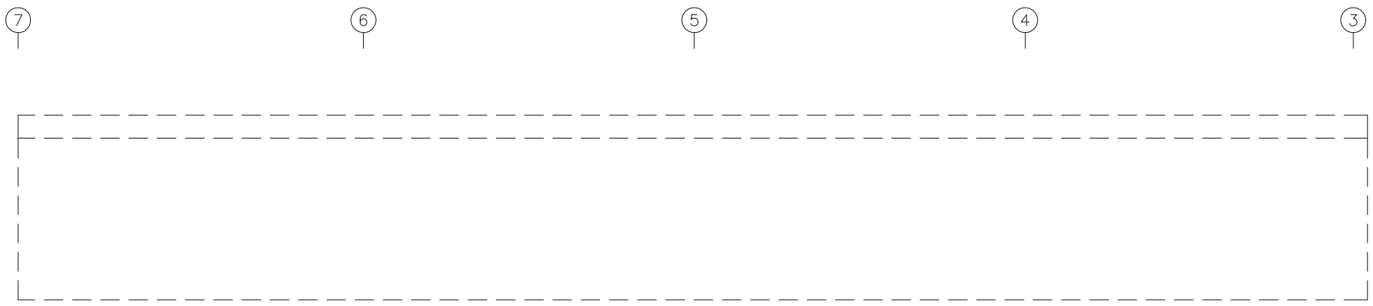
QUAN	MARK	PART	LENGTH
3	EB-2	W8X18	2'-11 1/2"
1	SB-1	W8X24	28'-11 11/16"
8	DJ-3	08X35C14	7 1/2"
3	G-8	08X25Z10	28'-8"
1	G-10	08X35C10	28'-8"
1	G-11	08X35C10	28'-8"
1	G-12	08X35C10	28'-8"
2	G-13	08X25Z10	28'-1"
1	G-14	08X25Z12	28'-1"
2	G-15	08X35C10	28'-1 1/2"
4	G-16	08X35C10	28'-1 1/2"
2	G-17	08X25Z10	28'-1 1/2"
1	G-18	08X25Z12	28'-1 1/2"
1	G-20	08X35C10	29'-7 1/2"
1	G-21	08X35C10	29'-7 1/2"
1	G-22	08X35C10	29'-7 1/2"
3	G-23	08X25Z10	29'-7 1/2"



SIDEWALL FRAMING: FRAME LINE D

PARAPET BACK SHEETING & TRIM: LINE D

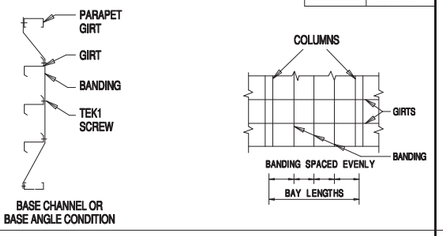
PANELS: By Others



SIDEWALL SHEETING & TRIM: FRAME LINE D

PANELS: ARPANEL SU PUR/PIR 100 – By Others

STANDARD GIRT BRACING DETAIL
FOR SIDEWALL GIRTS



BANDING REQUIREMENTS	
BAY WIDTH	RUNS REQ'D
AS SHOWN	AS SHOWN

DRAWING IS NOT TO SCALE

TRIM COLORS

EAVE TRIM	= By Others	CORNER TRIM	= By Others
BASE TRIM	= By Others	GUTTER	= By Others
DOOR TRIM	= By Others	DOWNSPOUTS	= By Others
RAKE TRIM	= By Others		
* LINER TRIM	= Liner panel color		
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GENERAL NOTES:

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TOWER STEEL BUILDINGS

LP BUILDING - PORT PERRY
60'-6" x 115'-5" x 14'-0"
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F.O. 26321

LP BUILDING - PORT PERRY

REVISION HISTORY

REV.	DESCRIPTION	DATE

DRAWING STATUS

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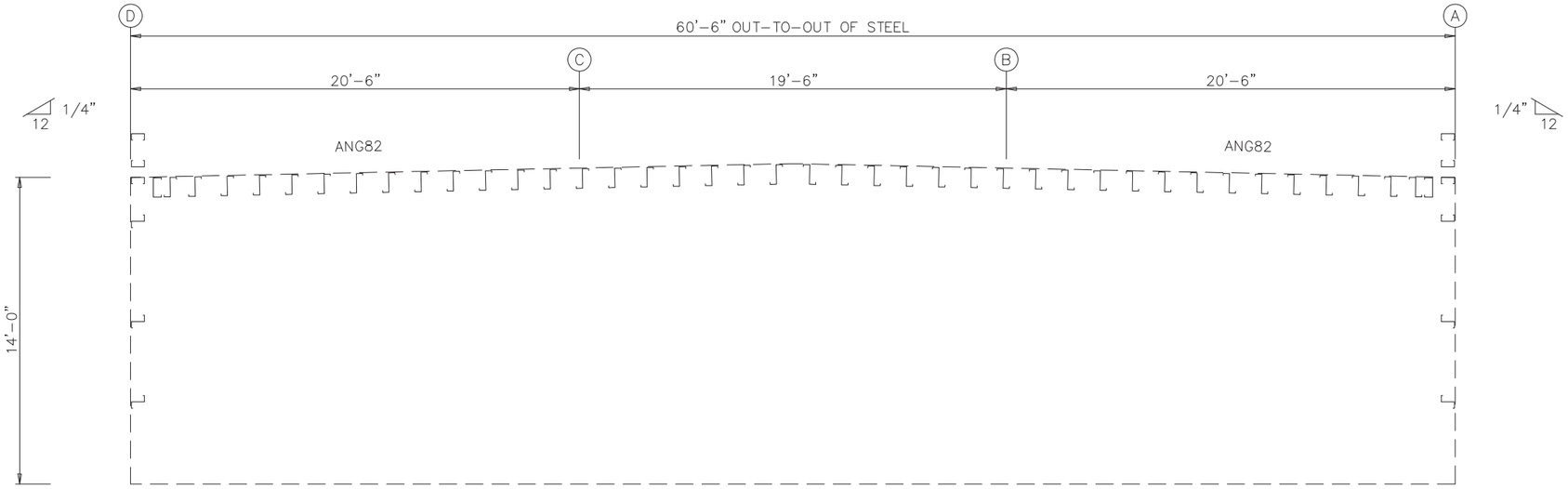
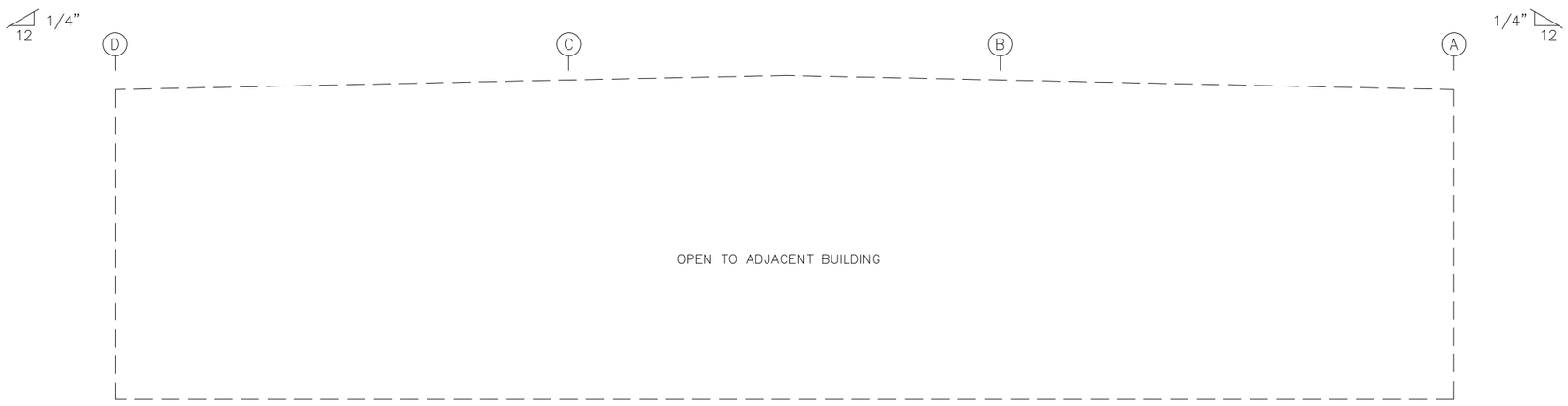
LICENSED PROFESSIONAL ENGINEER
M. ZHU
100184641
PROVINCE OF ONTARIO

08/31/2022



ENDWALL FRAMING: FRAME LINE 3



ENDWALL SHEETING & TRIM: FRAME LINE 3

DRAWING IS NOT TO SCALE

TRIM COLORS

EAVE TRIM	= By Others	CORNER TRIM	= By Others
BASE TRIM	= By Others	GUTTER	= By Others
DOOR TRIM	= By Others	DOWNSPOUTS	= By Others
RAKE TRIM	= By Others		
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2. See detail C7A for field coping of coldform endwall column flange braces.
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LP BUILDING - PORT PERRY

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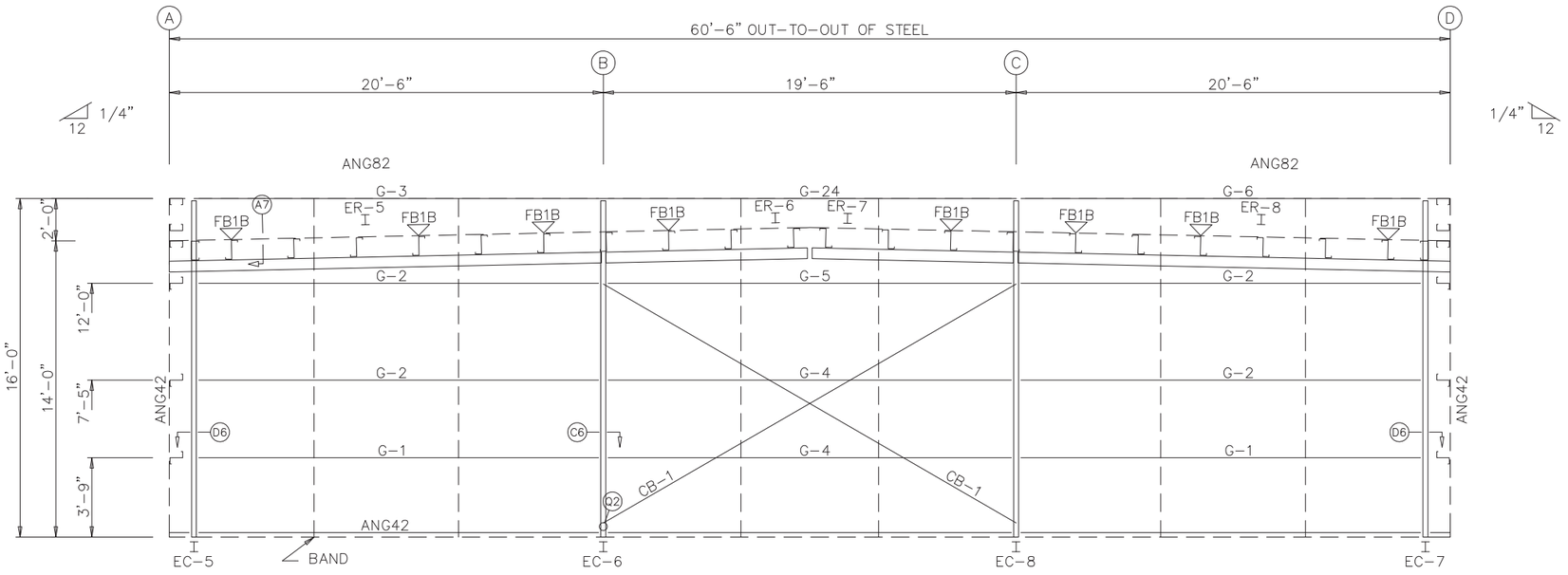
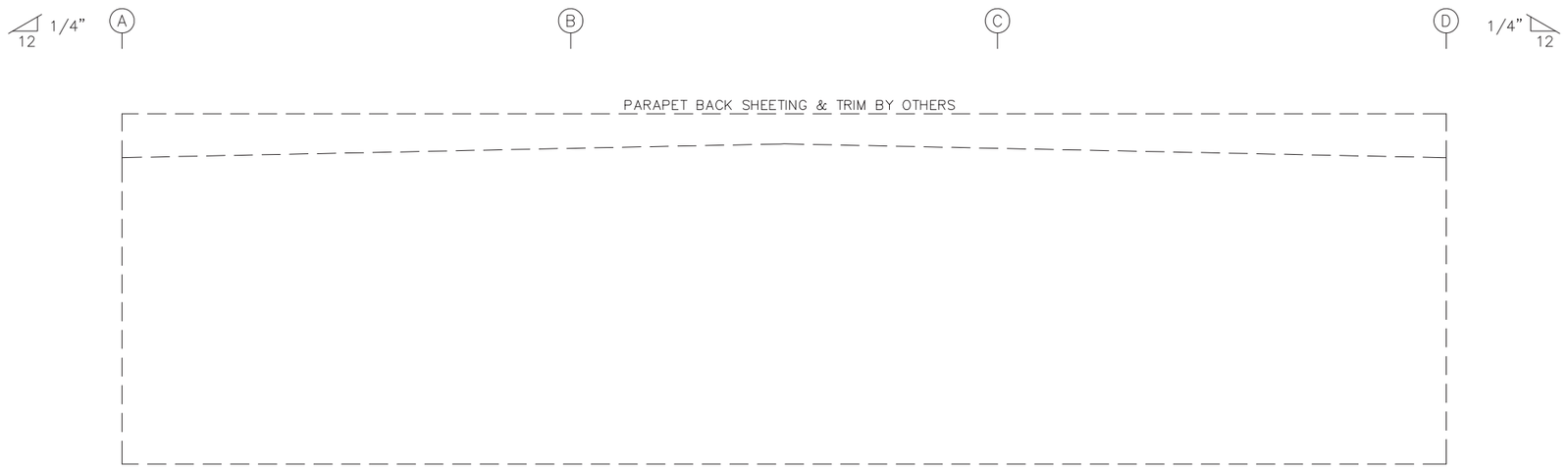


ENDWALL FRAMING: FRAME LINE 7



ENDWALL SHEETING & TRIM: FRAME LINE 7

PANELS: ARPANEL SU PUR/PIR 100 – By Others

BOLT TABLE
FRAME LINE 7

LOCATION	QUAN	TYPE	DIA	LENGTH
ER-6/ER-7	8	A325	3/4"	2 1/4"
EC/ER	2	A325	3/4"	1 3/4"

MEMBER TABLE
FRAME LINE 7

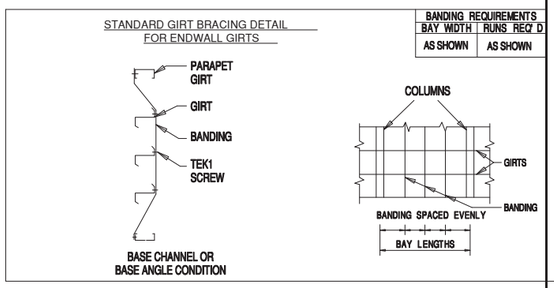
QUAN	MARK	PART	LENGTH
1	EC-5	W8X10	16'-0"
1	EC-6	W8X10	16'-0"
1	EC-7	W8X10	16'-0"
1	EC-8	W8X10	16'-0"
1	ER-5	W8X24	19'-2 1/2"
1	ER-6	W8X24	9'-8 3/8"
1	ER-7	W8X24	9'-8 3/8"
1	ER-8	W8X24	19'-2 1/2"
2	G-1	08X25Z14	18'-11 1/2"
4	G-2	08X25Z14	18'-11 1/2"
1	G-3	08X35C10	18'-11 1/2"
2	G-4	08X25Z14	19'-1 1/2"
1	G-5	08X25Z14	19'-1 1/2"
1	G-6	08X25Z10	18'-11 1/2"
1	G-24	08X35C10	19'-1 1/2"
2	CB-1	CABLE500	19'-11 5/16"

FLANGE BRACE TABLE
FRAME LINE 7

▽ID	MARK	LENGTH
1	FB1B	1'-3 3/8"

NOTE(S):
1.) FIELD DRILL GIRTS TO ALLOW CABLES TO PASS.

STANDARD GIRT BRACING DETAIL
FOR ENDWALL GIRTS



BANDING REQUIREMENTS	
BAY WIDTH	RUNS REQ'D
AS SHOWN	AS SHOWN

DRAWING IS NOT TO SCALE

TRIM COLORS

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BASE TRIM	= By Others	GUTTER	= By Others
DOOR TRIM	= By Others	DOWNSPOUTS	= By Others
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TOWER STEEL BUILDINGS

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F.O. 26321

LP BUILDING - PORT PERRY

REVISION HISTORY

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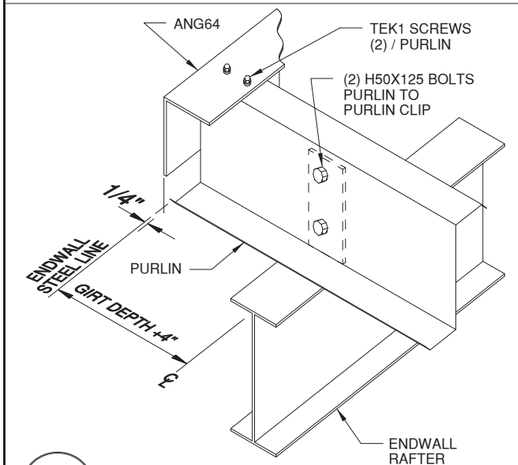
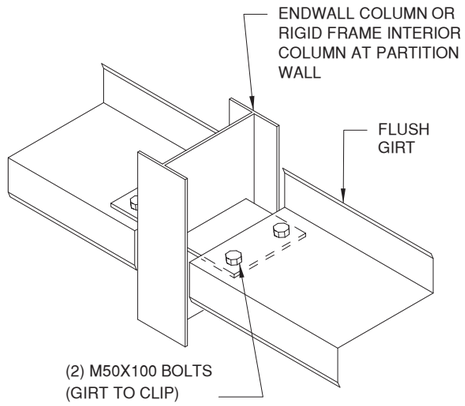
LICENSED PROFESSIONAL ENGINEER
M. ZHU
100184641
PROVINCE OF ONTARIO

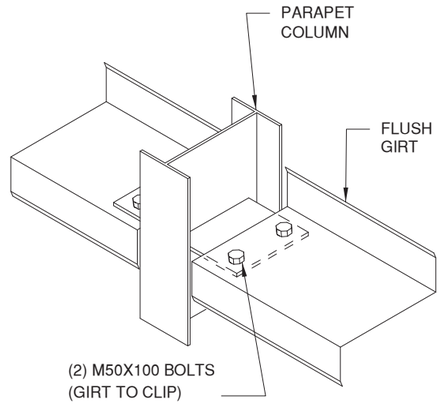
08/31/2022



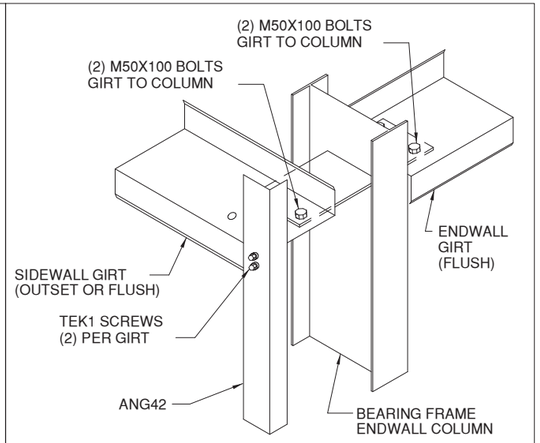
A7 PURLIN TO ENDWALL RAFTER CONNECTION



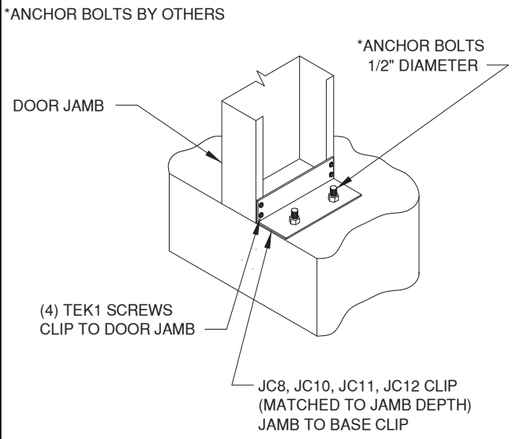
C6 FLUSH GIRT TO COLUMN



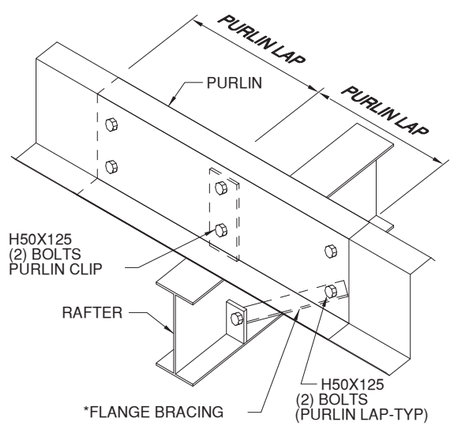
C32 FLUSH GIRT TO PARAPET COLUMN



D6 WALL GIRTS TO FLUSH CORNER COLUMN

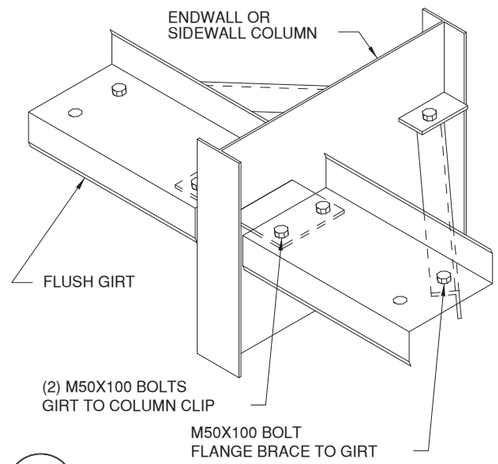


E6 DOOR JAMB TO FOUNDATION

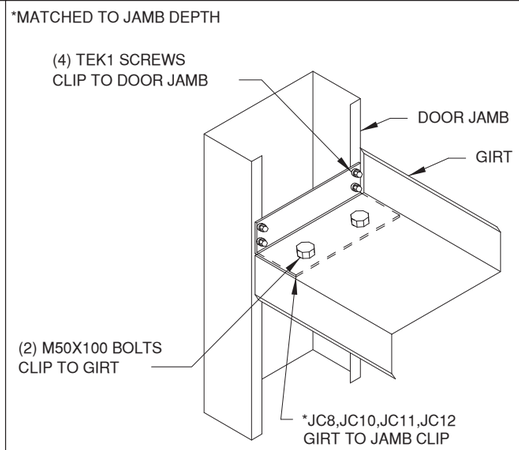


*MAY BE NEAR SIDE, FAR SIDE, OR BOTH

G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



H6 GIRT TO COLUMN - FLUSH GIRTS



K1 WALL GIRT TO DOOR JAMB

TOWER STEEL BUILDINGS

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DATE: 8/12/22 | REVISION: 0
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F.O. 26321

LP BUILDING - PORT PERRY

REVISION HISTORY

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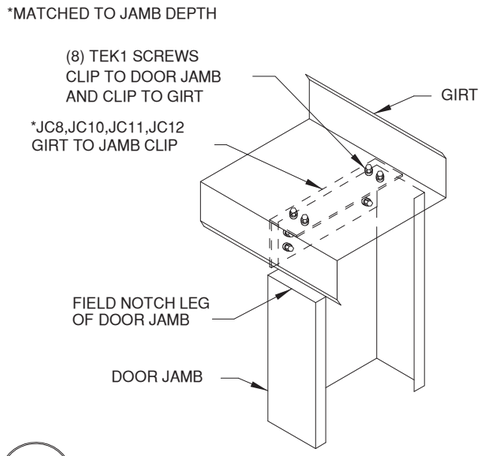
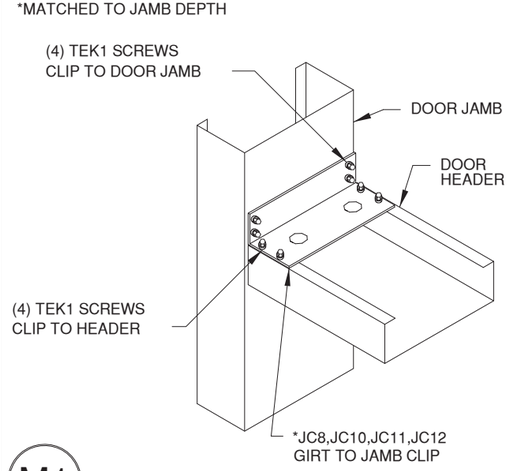
08/31/2022

*MATCHED TO JAMB DEPTH

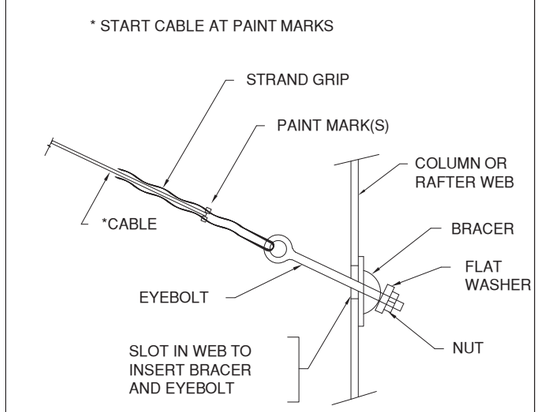


L9 DOOR JAMB TO WALL GIRT

*MATCHED TO JAMB DEPTH



M1 DOOR HEADER TO DOOR JAMB



Q2 CABLE BRACE / EYEBOLT

TOWER STEEL BUILDINGS

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