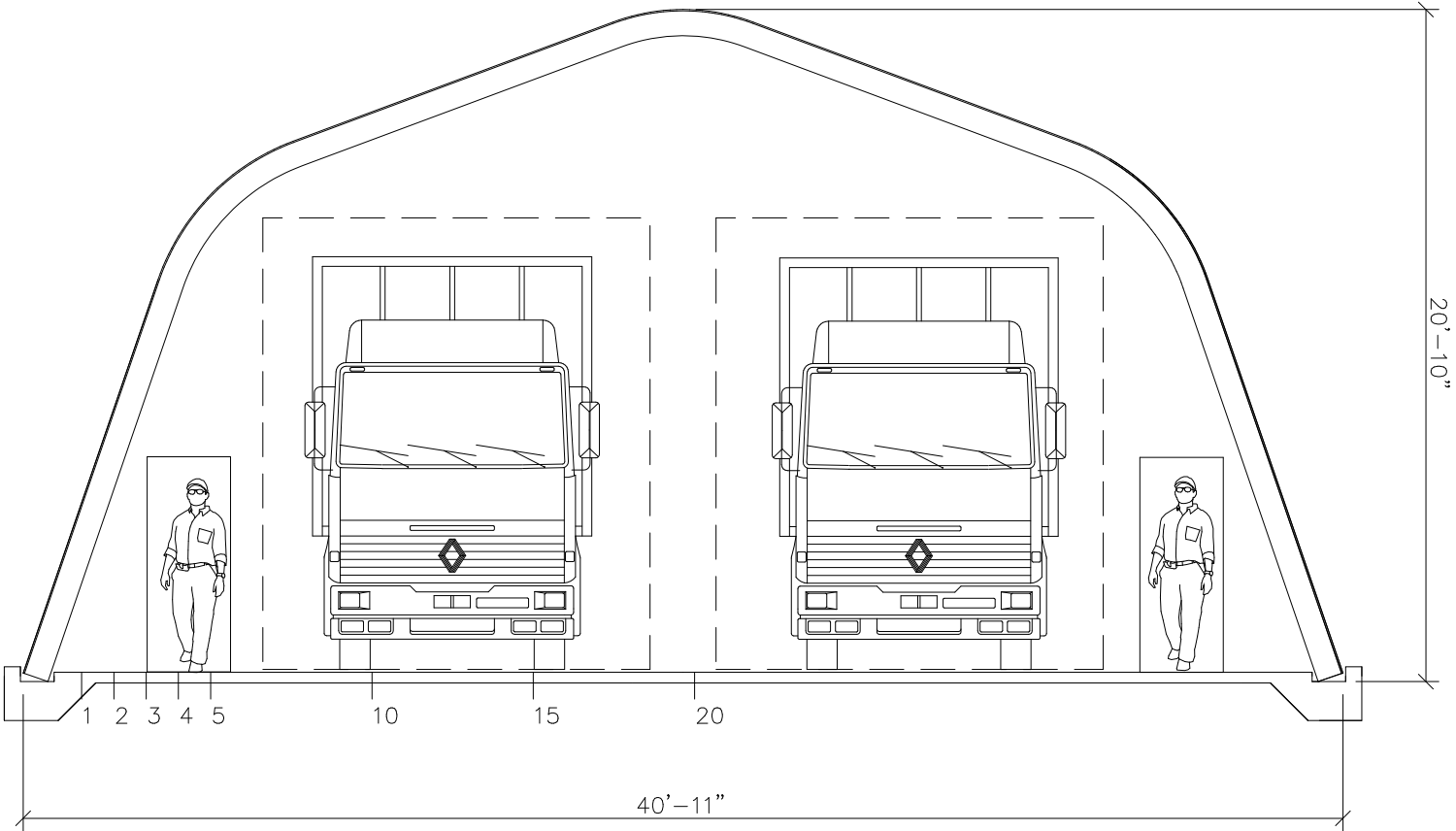


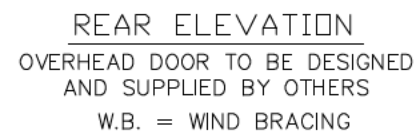
NOTE: THIS DRAWING IS PRELIMINARY. PLEASE REFER TO THE CERTIFIED BLUEPRINT FOR FINAL DIMENSIONS.

Horizontal Distance	Inside Clearance
1'	2'-9"
2'	5'-8"
3'	8'-7"
4'	11'-6"
5'	13'-6.5"
10'	16'-6"
15'	18'-4.5"
20'	19'-8.5"

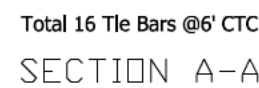
Front Door Frames: 12'w x 14'h, Overhead Door Clearance = 1' XXXXXXXXXX



str. panels: 2@64.50 & 2@71.44	1 peak panel: 71.44	bolts/arch: 272	Date: 4/4/2018
2 eave panels: 92.25	str. wall panels: 2@120, 2@43.69		
Endwall area, sq.ft: 641.45	Volume/ft, cu.ft: 615.50	Surface area/arch, sq.ft: 175.38	Total arch length: 765.31



V.S. = VERTICAL STIFFENER
A.T. = ARCH TIE



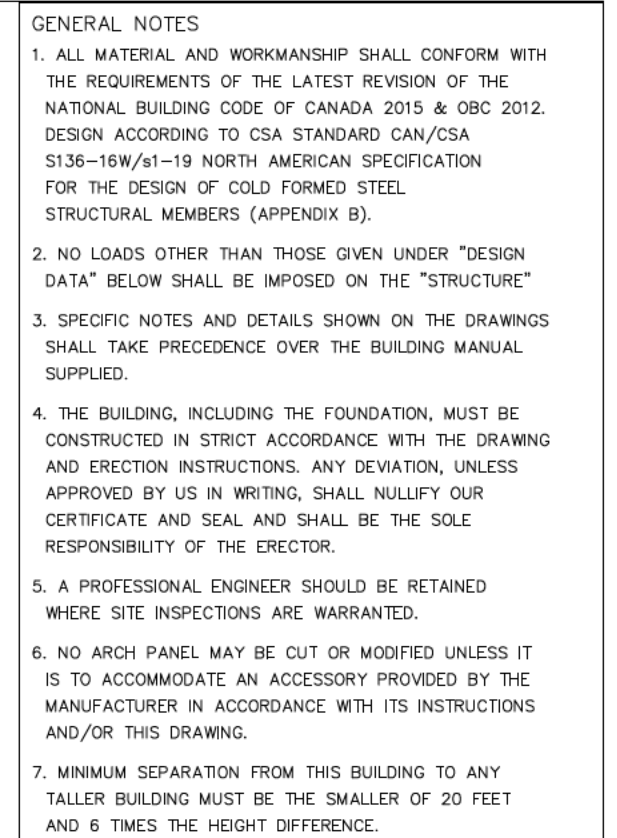
Minimum Concrete Cover:	
(a) Concrete Cast against earth:	3"
(b) Concrete exposed to earth or weather:	
No. 6 through No. 10 bars:	2"
No. 5 bar and smaller:	1.5"
(c) Concrete not exposed to earth or weather:	0.75"



ARCH TIE DETAIL



INDUSTRIAL BASE CONNECTOR LAYOUT



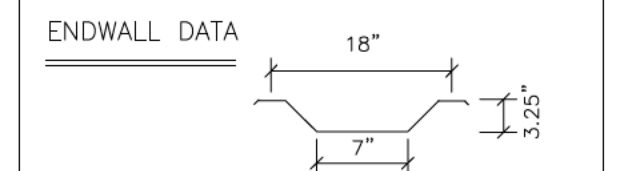
FOUNDATION NOTES

NOTE: THE FOUNDATION ON THE DRAWING SPECIFIES THE MINIMUM REQUIREMENTS. LOCAL BUILDING CODE AND SITE CONDITIONS MAY REQUIRE A STRONGER FOUNDATION, WHICH MUST BE DESIGNED BY A LOCAL ENGINEER.

1. THE FOUNDATION SHALL BE FOUNDED ON NATURAL UNDISTURBED SOIL CAPABLE OF SAFELY SUSTAINING 75 kPa. THIS SHALL BE DESIGNED TO FULLY RESIST ALL ROTATION AT THE BASE OF THE ARCH.
2. SLAB ON GRADE SHALL BE PLACED ON WELL COMPACTED SOIL CAPABLE OF SUSTAINING 75 kPa WITHOUT APPRECIABLE SETTLEMENT.

DESIGN DATA (MATERIALS)

1. CONCRETE $f'_c = 25 \text{ MPa}$ @ 28 DAYS, CSA A23.3
2. REINFORCING STEEL GRADE 400, $F_y = 400 \text{ MPa}$, ASTM A615
3. W.W.R. $F_y = 450 \text{ MPa}$, ASTM A1064.
4. W.W.R. 152x152 - MW9xMW9.



BOLTS: SAE GRADE 2 OR ASTM A307
ARCH STEEL THICKNESS - SEE ARCH PROFILE
ENDWALL STEEL THICKNESS = 0.76 mm

GALVALUME SHEET STEEL

STRUCTURAL QUALITY ASTM SPECIFICATION A792M

55% ALUMINUM-ZINC ALLOY-COATED BY THE

HOT-DIP PROCESS

345 MPa MINIMUM YIELD

450 MPa MINIMUM TENSILE

HSS SECTIONS SHALL CONFORM TO:

ASTM A500 GRADE C ($F_y = 345 \text{ MPa}$)

W SECTIONS SHALL CONFORM TO:

ASTM A992 GRADE 50 ($F_y = 345 \text{ MPa}$)

OTHER SECTIONS SHALL CONFORM TO:

ASTM A36 ($F_y = 250 \text{ MPa}$)

ARCH DESIGN DATA IN ACCORDANCE WITH NBC 2015:

- L: ROOF LIVE LOAD (kPa) = 1
- Sr: GROUND SNOW (kPa) = 2.60
- Cb: ROOF SNOW FACTOR = 0.80
- Cw: WIND EXPOSURE FACTOR = 1.0
- Cs: MAX. SLOPE FACTOR = 1.0
- Sr: RAIN LOAD (kPa) = 0.40

IMPORTANCE FACTOR (SNOW) = 1.0

- p: WIND EXTERNAL PRESSURE (kPa) = 0.41
- q: VELOCITY PRESSURE (1/50) (kPa) = 0.46
- Ce: EXPOSURE FACTOR = 0.9
- Cg: GUST EFFECT FACTOR = 2.0

Sa(0.2%): SPECTRAL RESPONSE ACCELERATION = 0.33

LEGAL NOTE

This drawing is the property of Future Steel Buildings Intl. Corp. Any duplication of this drawing in whole or in part is strictly forbidden. Anyone doing so will be prosecuted under the full extent of the law.

REVISIONS:

Future Steel Buildings Intl. Corp.

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N.T.S.	P.G.	
SCM F:	APPROVED BY:	

DATE: 7/14/2021	CHECKED BY: A.G.	
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DATE:	CHECKED BY:	
PROJECT:	STEVE NARAINÉ	

FORT ERIE, ON

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ENGINEER'S SEAL: