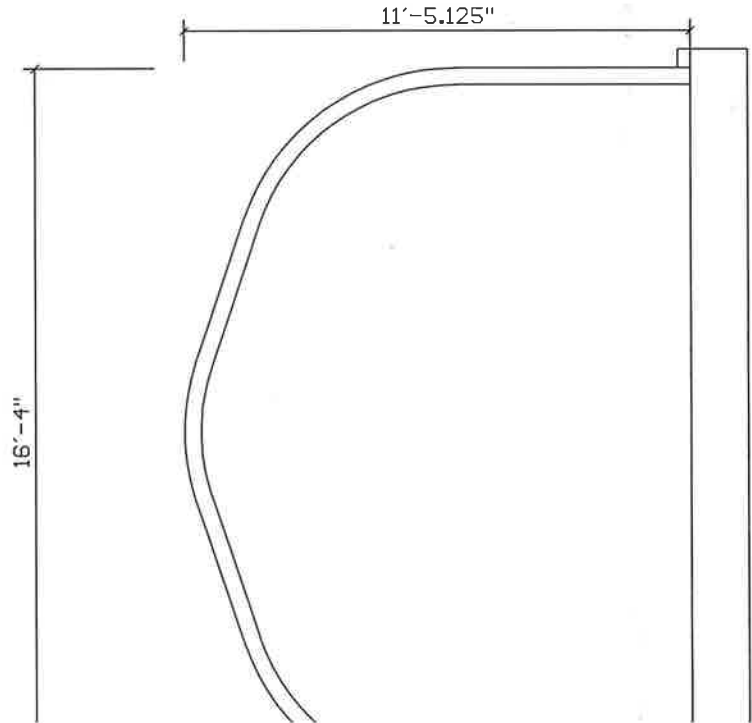
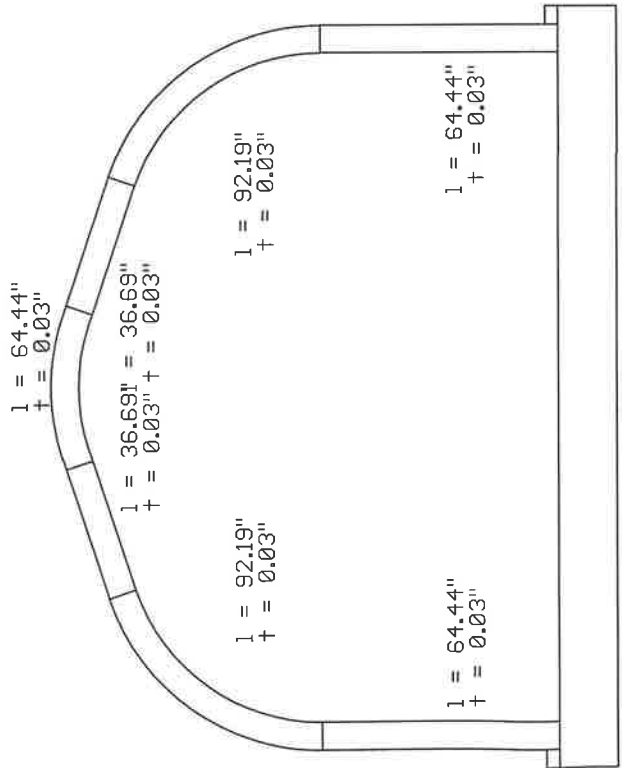




FRONT ELEVATION

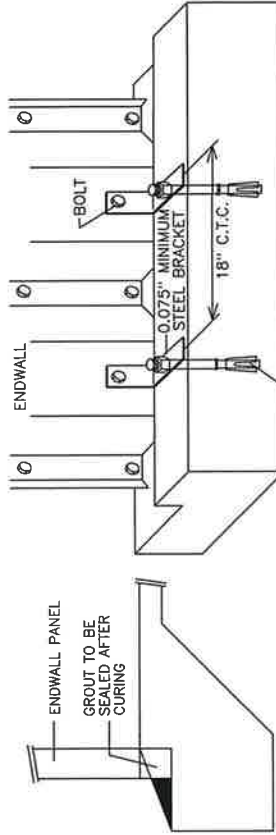


ARCH PROFILE

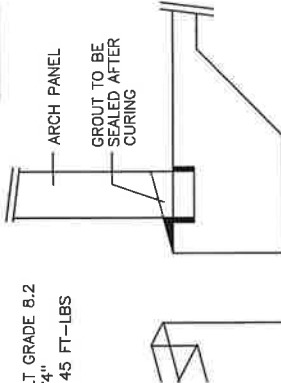
FLOOR
S OF
RE MAY RESULT

3"
2"
1.5"
1.0.75"

ENDWALL ANCHORAGE



FIRST ANCHOR BOLT LOCATION:
• SOLID ENDWALL = 9" FROM BUILDING CENTERLINE+18" C.T.C.
• ENDWALL WITH OPENING = 11" FROM OPENING+18" C.T.C.



ANGLE & VERTICAL LEG LENGTH
MAY BE DIFFERENT FOR Q & X MODELS

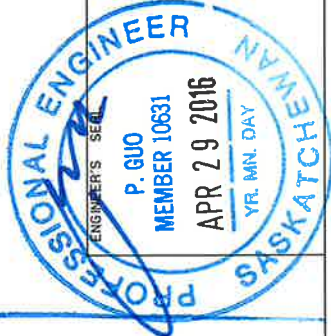
1'-3/4"x1'-3/4"
WASHER
M F436
EQUIVALENT

INGS LESS THAN 30'-0" WIDE
WIDE AND GREATER

ENDWALL

Association of Professional Engineers & Geoscientists
of Saskatchewan

CERTIFICATE OF AUTHORIZATION
Future Steel Buildings Intl. Corp.
Number C982
Permission to Consult held by:
Discipline Civil Sk. Reg. No. 10631 Signature [Signature]



1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST REVISION OF THE NATIONAL BUILDING CODE OF CANADA 2010.
DESIGN ACCORDING TO CSA STANDARD S136-07 (INCLUDING SUPPLEMENT CAN/CSA S136S1-10) NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS (APPENDIX B).
2. NO LOADS OTHER THAN THOSE GIVEN UNDER "DESIGN DATA" BELOW SHALL BE IMPOSED ON THE "STRUCTURE".
3. SPECIFIC NOTES AND DETAILS SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE BUILDING MANUAL SUPPLIED.
4. THE BUILDING, INCLUDING THE FOUNDATION, MUST BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE DRAWING AND ERECTION INSTRUCTIONS. ANY DEVIATION, UNLESS APPROVED BY US IN WRITING, SHALL NULLIFY OUR CERTIFICATE AND SEAL AND SHALL BE THE SOLE RESPONSIBILITY OF THE ERECTOR.
5. A PROFESSIONAL ENGINEER SHOULD BE RETAINED WHERE SITE INSPECTIONS ARE WARRANTED.
6. NO ARCH PANEL MAY BE CUT OR MODIFIED UNLESS IT IS TO ACCOMMODATE AN ACCESSORY PROVIDED BY THE MANUFACTURER IN ACCORDANCE WITH ITS INSTRUCTIONS AND/OR THIS DRAWING.
7. MINIMUM SEPARATION FROM THIS BUILDING TO ANY TALLER BUILDING MUST BE THE SMALLER OF 20 FEET AND 6 TIMES THE HEIGHT DIFFERENCE.

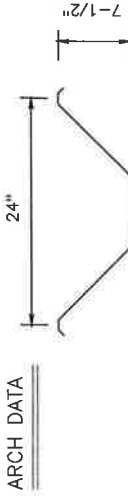
FOUNDATION NOTES

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.

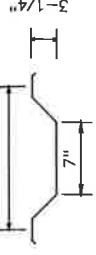
1. THE FOUNDATION SHALL BE FOUNDED ON NATURAL UNDISTURBED SOIL CAPABLE OF SAFELY SUSTAINING 75 kPa. THIS SHALL BE DESIGNED TO FULLY RESIST ALL ROTATION AT THE BASE OF THE ARCH.
2. SLAB ON GRADE SHALL BE PLACED ON WELL COMPACTED SOIL CAPABLE OF SUSTAINING 75 kPa WITHOUT APPRECIABLE SETTLEMENT.

DESIGN DATA (MATERIALS)

1. CONCRETE F'c = 25 MPa @ 28 DAYS, CSA A23.3
2. REINFORCING STEEL GRADE 400, Fy = 400 MPa, ASTM A615
3. W.W.R. Fy = 450 MPa, ASTM A185.
4. W.W.R. 152x152 - MW9xMWS.



ENDWALL DATA



BOLTS: SAE GRADE 2 OR ASTM A307
ARCH STEEL THICKNESS - SEE ARCH PROFILE
ENDWALL STEEL THICKNESS = 0.75 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 (Fy = 345 MPa)
ASTM A992 GRADE 50 (Fy = 345 MPa)
OTHER SECTIONS SHALL CONFORM TO:
ASTM A36 (Fy = 250 MPa)

ARCH DESIGN DATA IN ACCORDANCE WITH NBC 2010:

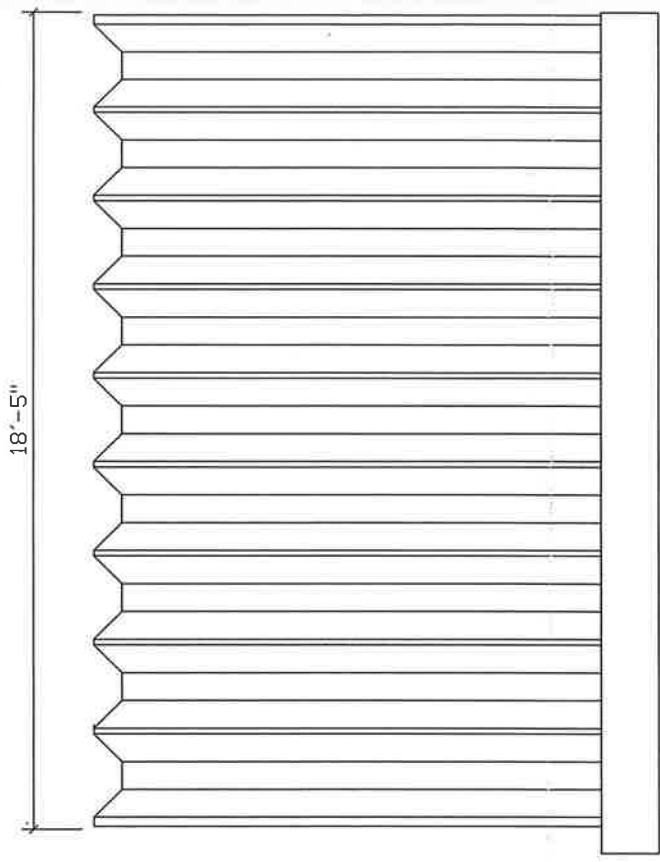
- L: ROOF LIVE LOAD (kPa) = 1
- Ss: GROUND SNOW (kPa) = 1.40
- Cs: ROOF SNOW FACTOR = 0.80
- Cw: WIND EXPOSURE FACTOR = 1.0
- Cs: MAX. SLOPE FACTOR = 1.0
- Sr: RAIN LOAD (kPa) = 0.10
- IMPORTANCE FACTOR (SNOW) = 0.8
- p: WIND EXTERNAL PRESSURE (kPa) = 0.39
- q: VELOCITY PRESSURE (1/50) (kPa) = 0.54
- Ce: EXPOSURE FACTOR = 0.9
- Cg: GUST EFFECT FACTOR = 2.0
- So(0.2): SPECTRAL RESPONSE ACCELERATION = 0.10

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.

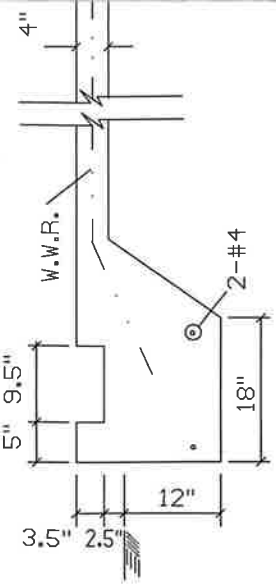
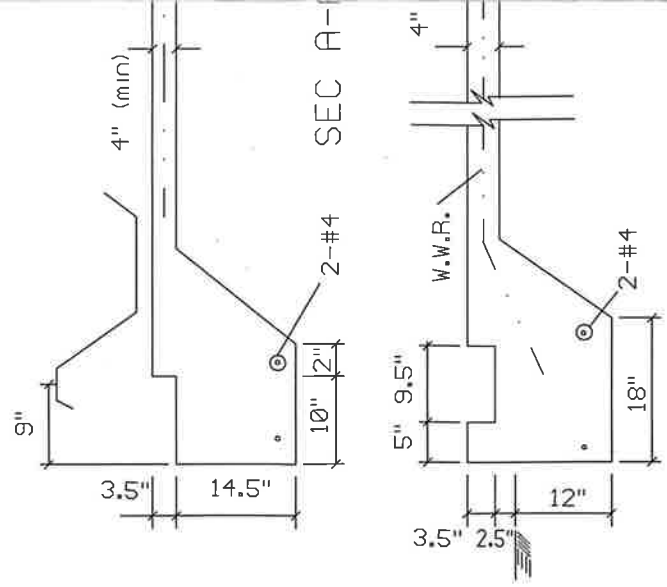
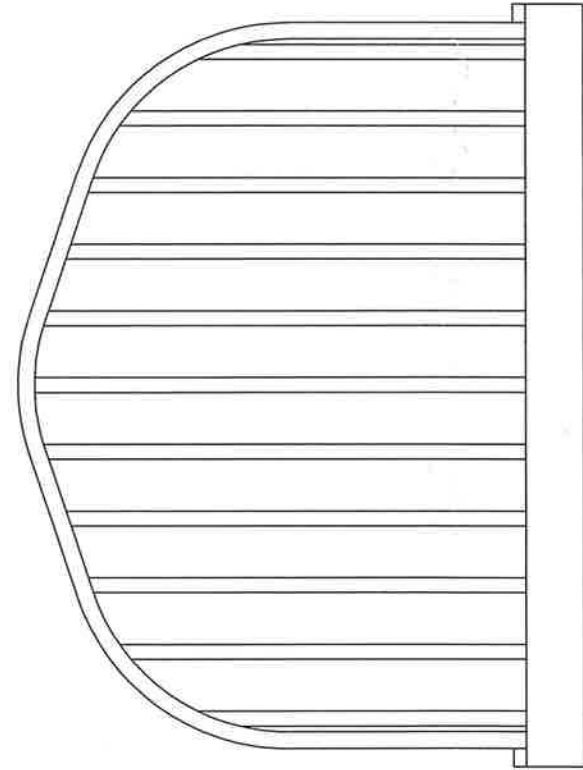
REVISIONS:

Future Steel Buildings Intl. Corp.			
73 Ward Rd., Brampton, Ontario, Canada, L6S 6R8, Phone: (905) 798-8500			
SCALE: N.T.S.	APPROVED BY: P.G.		
DATE: Apr 29, 2016	CHECKED BY: STGC		
PROJECT:			
MODEL: A15-11	DWG: 15-1046		



REAR ELEVATION

SIDE ELEVATION



WARNING: DO NOT REMOVE OR REDUCE THE REINFORCING STEEL, AND/OR THE FOOTERS ABOVE THE FLOOR OF THE

Minimum Concrete Cover:
(a) Concrete Cast against earth
(b) Concrete exposed to earth
(c) Concrete not exposed to earth

