



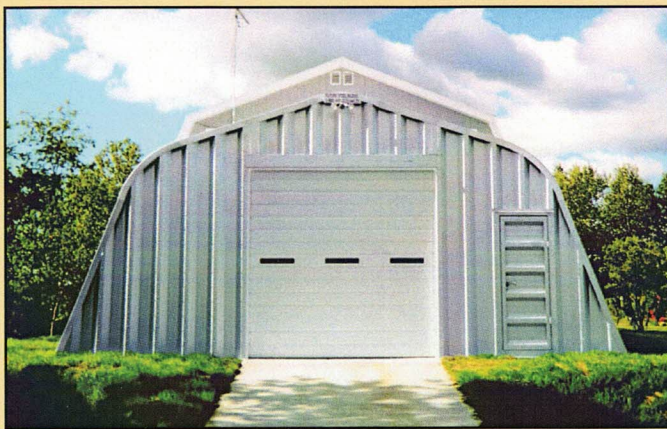
Building for the Future

## **FUTURE STEEL BUILDINGS**

Distributed by Future Sales Corporation  
1405 Denison Street  
MARKHAM, ONTARIO, L3R 5V2  
(905) 477-1894 FAX: (905) 477-3661

# **Industrial Base Connectors**

- 14 gauge steel, welded construction, 8.5 lbs/linear foot
- Reduces concrete perimeter cost by 1/2
- No need for tie downs
- No grout required
- Creates a water barrier and runoff system
- Less labour intensive
- Speeds up assembly process
- Building becomes transportable

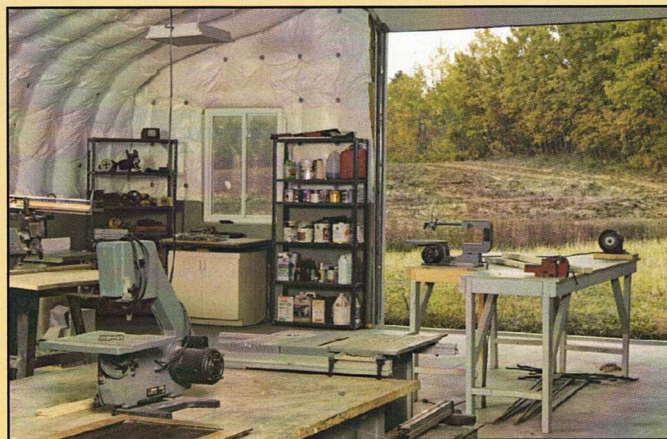


Building for the future

**FUTURE BUILDINGS**

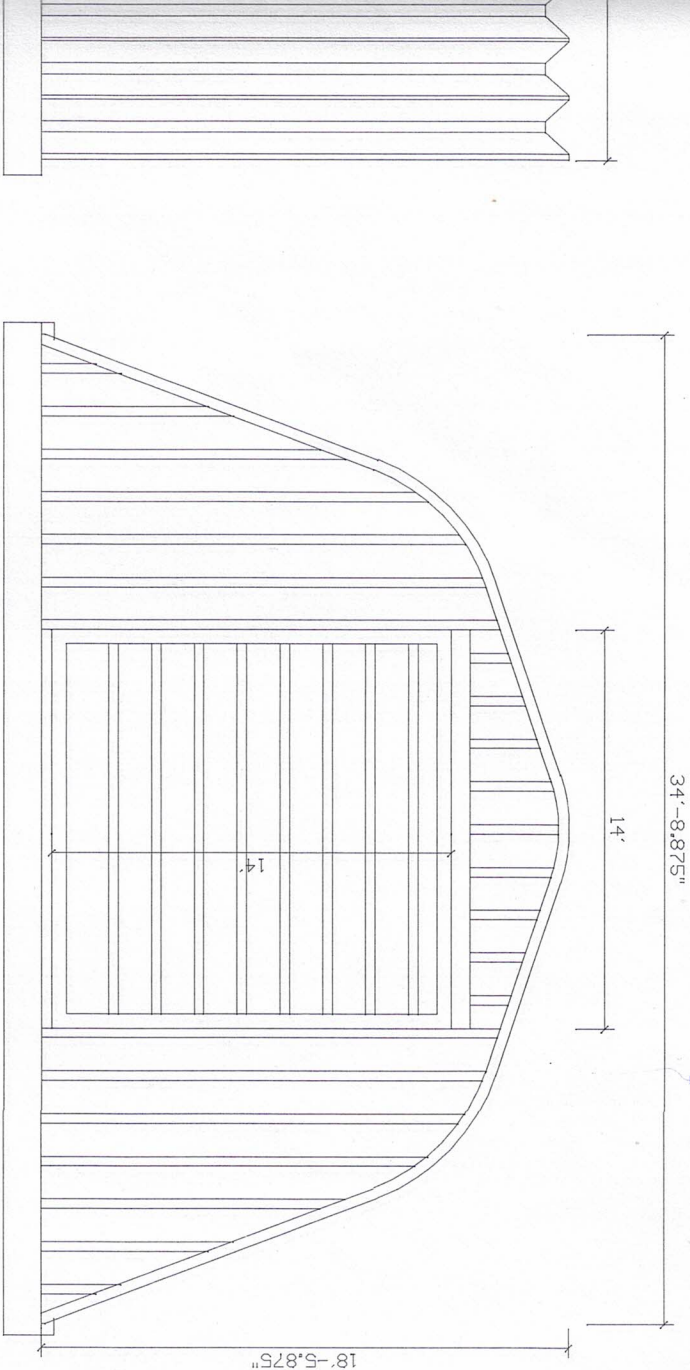
**ACCESSORIES**

**FLOOR TO ROOF &  
WALL TO WALL**

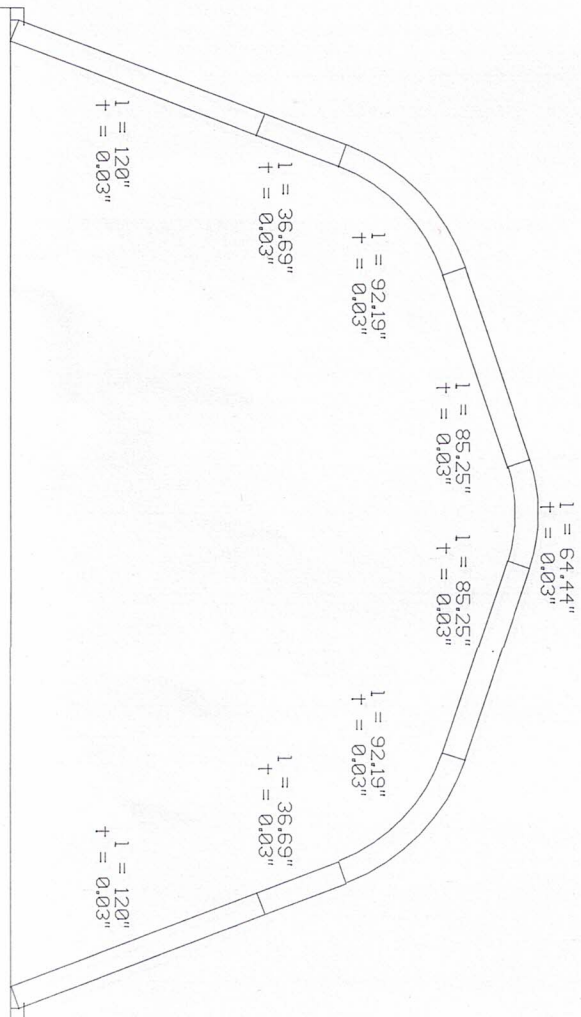


**WE'VE GOT IT ALL!**





## FRONT ELEVATION



## GENERAL NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST REVISION OF THE NATIONAL BUILDING CODE OF CANADA 2005 & ABC 2006, DESIGN ACCORDING TO CSA STANDARD S16-01 (INCLUDING SUPPLEMENT CAN/CSA S16S1-04) 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.

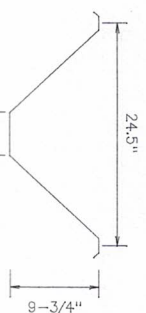
## FOUNDATION NOTES

- 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, ACI
2. REINFORCING STEEL GRADE 400,  $F_y = 100$  MPa, ASTM A615
3. W.W.R.  $F_y = 450$  MPa, ASTM A185.
4. W.W.R. 152x152 - MW3xW9.

## ARCH DATA



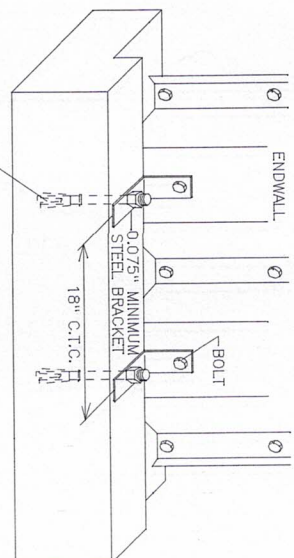
11

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

GALVOLUME SHEET STEEL

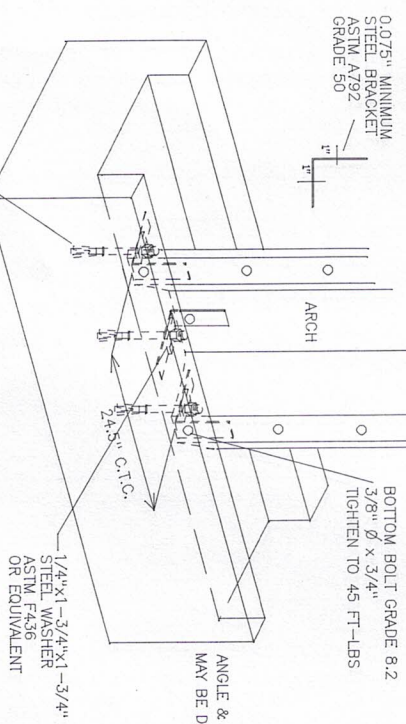
STRUCTURAL QUALITY ASTM SPECIFICATION A792M  
55% ALUMINUM-ZINC ALLOY-COATED BY THE  
HOT-DIP PROCESS  
345 MPa MINIMUM YIELD  
450 MPa MINIMUM TENSILE  
HSS SECTIONS SHALL CONFORM TO:  
ASTM A500 GRADE C (F<sub>y</sub> = 345 MPa)  
W SECTIONS SHALL CONFORM TO:  
ASTM A992 GRADE 50 (F<sub>y</sub> = 345 MPa)  
OTHER SECTIONS SHALL CONFORM TO:  
ASTM A36 (F<sub>y</sub> = 250 MPa)

### ENDWALL ANCHORAGE



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

### ARCH ANCHORAGE



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

HILL KB3 ANCHORS (ICC-ESR-2302) OR EQUIVALENT:  
1/2" Ø x 5 1/2" BOLTS WITH 4.4" EMBEDDED DEPTH FOR BUILDINGS LESS THAN 30'-0" WIDE  
5/8" Ø x 10" BOLTS WITH 8.75" EMBEDDED DEPTH FOR 30'-0" WIDE AND GREATER

FIRST ANCHOR BOLT LOCATION FROM END OF FOUNDATION:  
\* 2.5" WITHOUT MANUFACTURER'S ENDWALL  
\* 33.5" WITH MANUFACTURER'S ENDWALL  
ARCHES AND MANUFACTURER'S ENDWALLS MUST BE  
GROUTED INTO FOUNDATION ON BOTH SIDES OF PANELS.

**PERMIT TO PRACTICE**  
FUTURE STEEL BUILDINGS INTL. CORP.

Signature

Date **NOV 14 2013**

**PERMIT NUMBER: P 07079**

The Association of Professional Engineers,  
Geologists and Geophysicists of Alberta

NOV 14 2013



### LEGAL NOTE

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REVISIONS:

Future Steel Buildings Intl. Corp.

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SCALE: P.G.

DATE: Nov 15, 2013

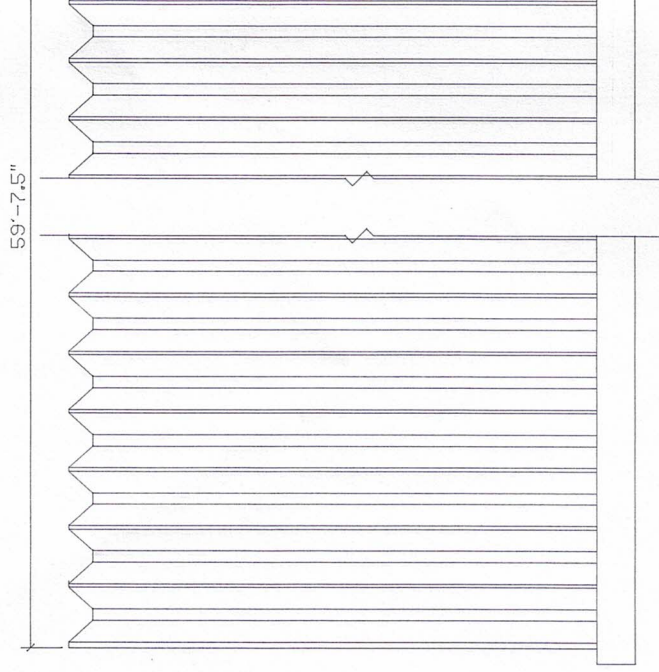
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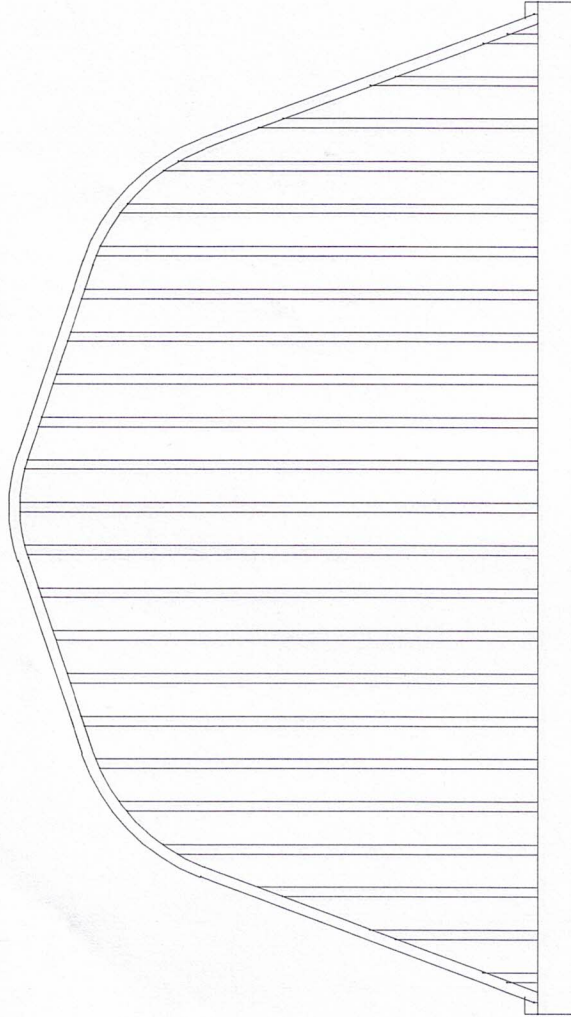
RED DEER, AB

MODEL: XX35-18 DWG: 13-7718 R2

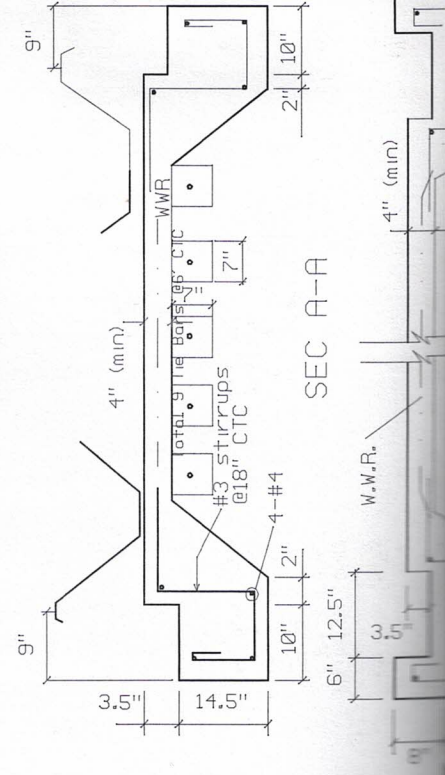


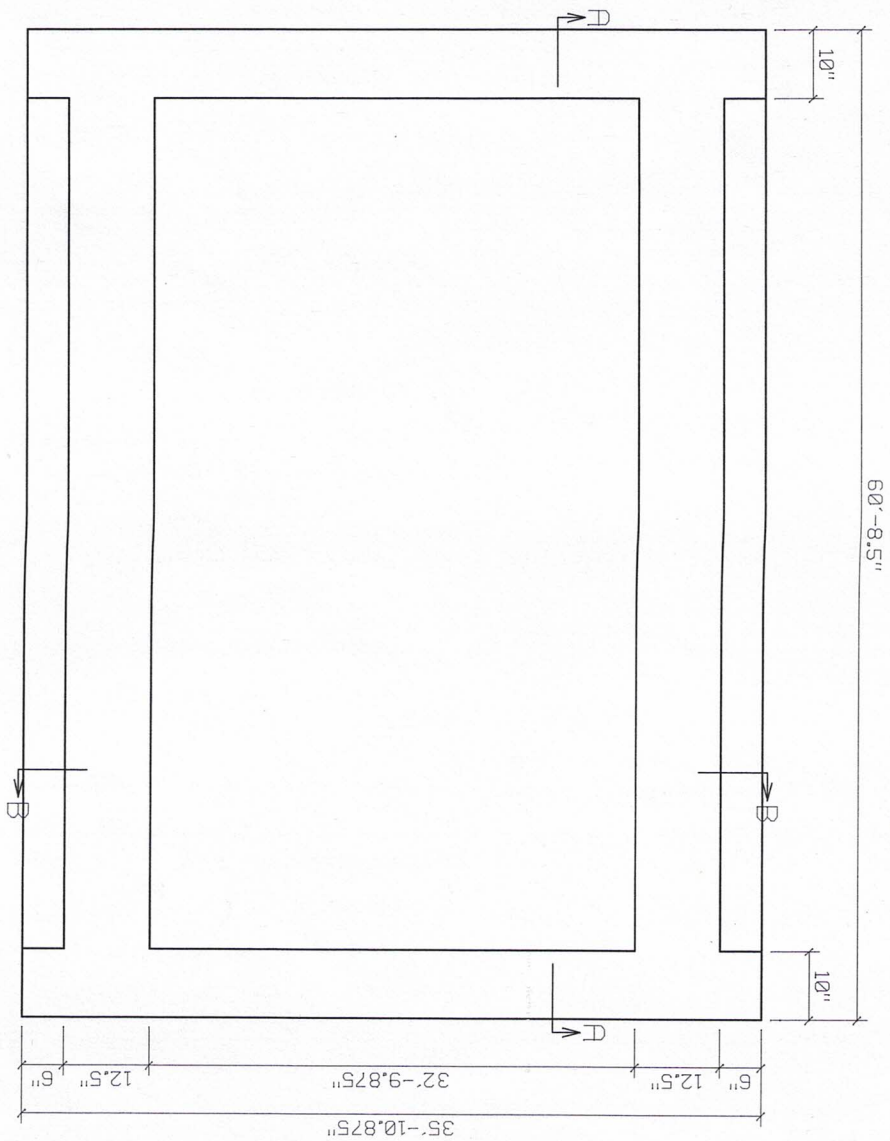


REAR ELEVATION



SIDE ELEVATION





FOUNDATION PLAN

FOUNDATIONS DO NOT RECEIVE OR RECEIVE FROM  
ON THE REINFORCING STEEL, MINIMUM COVER  
THE FOOTINGS ABOVE THE FLOOR OR BUILDING

Minimum Concrete Cover:

- (a) Concrete Cast against earth;
- (b) Concrete exposed to earth or water:  
No. 6 through No. 10 bars:  
No. 5 bar and smaller;
- (c) Concrete not exposed to earth or water.