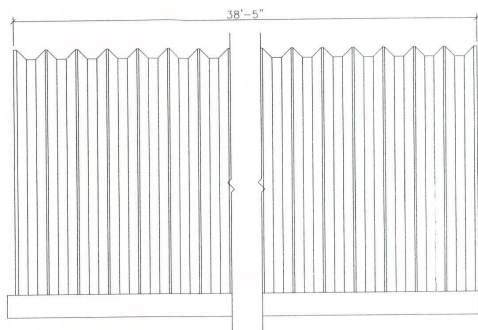
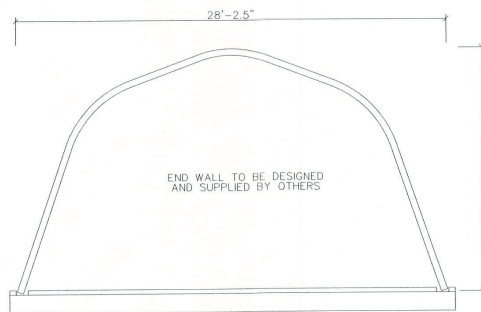


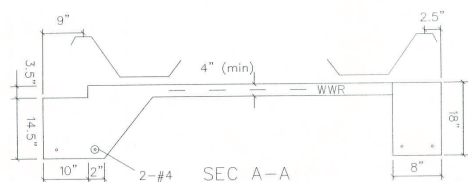
REAR ELEVATION



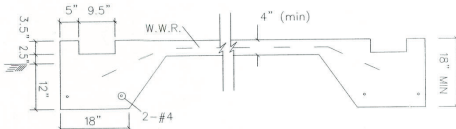
SIDE ELEVATION



FRONT ELEVATION



SEC A-A

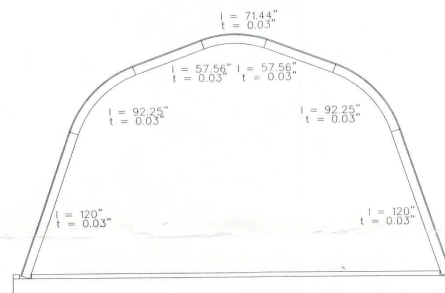


SEC B-B

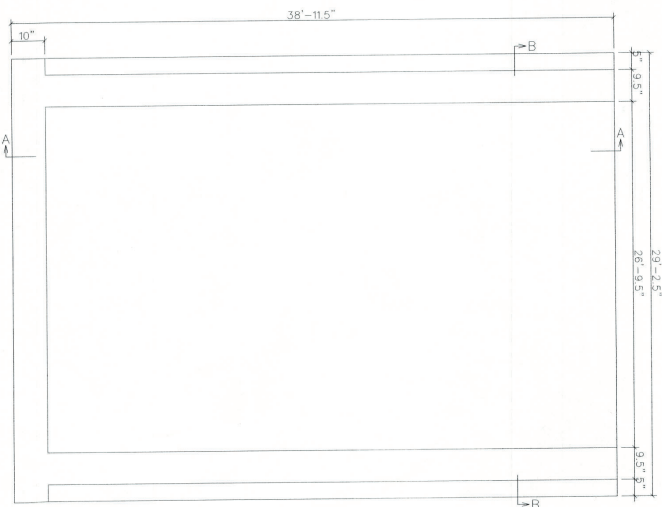
WARNING: DO NOT REMOVE OR REDUCE THE CONCRETE FLOOR OR THE REINFORCING STEEL, AND/OR RAISE THE TOPS OF THE FOOTERS ABOVE THE FLOOR OR BUILDING FAILURE MAY RESULT

Minimum Concrete Cover:

- (a) Concrete Cast against earth: 3"
- (b) Concrete exposed to earth or weather: 1.5"
- (c) Concrete not exposed to earth or weather: 0.75"

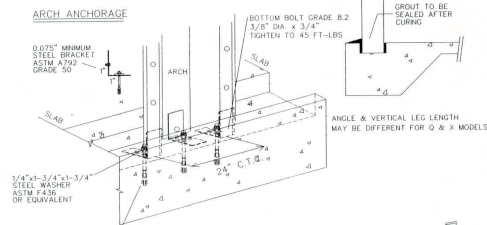


ARCH PROFILE



FOUNDATION PLAN

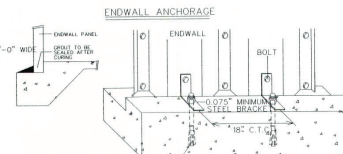
ARCH ANCHORAGE



HLH NBS ANCHORS (00-ESR-2302) OR EQUIVALENT.
 1/2" DIA. x 5 1/2" BOLTS WITH 4.4" EMBEDDED DEPTH FOR BUILDINGS LESS THAN 30'-0" WIDE
 5/8" DIA. x 10" BOLTS WITH 5.75" EMBEDDED DEPTH FOR 30'-0" WIDE AND GREATER

FIRST ANCHOR BOLT LOCATION FROM END OF FOUNDATION:
 • 2.5" WITH NO WALL OR MANUFACTURER'S CLASSED ENDWALL
 • 3" WITH MANUFACTURER'S CORRUGATED ENDWALL
 ARCHES AND MANUFACTURER'S ENDWALLS MUST BE GROUDED INTO FOUNDATION ON BOTH SIDES OF PANELS.

ENDWALL ANCHORAGE



FIRST ANCHOR BOLT LOCATION:
 • SOLID ENDWALL = 2" FROM BUILDING CENTERLINE + 18" C.T.C.
 • OPEN ENDWALL = 1" FROM OPENING + 18" C.T.C.

- GENERAL NOTES
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST REVISION OF THE NATIONAL BUILDING CODE OF CANADA 2015 & BCBC 2018. DESIGN ACCORDING TO CSA STANDARD CAN/CSA S136-12 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COOL FORMED STEEL STRUCTURAL MEMBERS (APPENDIX B).
 - NO LOADS OTHER THAN THOSE GIVEN UNDER "DESIGN DATA" BELOW SHALL BE IMPOSED ON THE "STRUCTURE".
 - SPECIFIC NOTES AND DETAILS SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE BUILDING MANUAL SUPPLIED.
 - 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.
 - A PROFESSIONAL ENGINEER SHOULD BE RETAINED WHERE SITE INSPECTIONS ARE WARRANTED.
 - 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.
 - MINIMUM SEPARATION FROM THIS BUILDING TO ANY TALLER BUILDING MUST BE THE SMALLER OF 20 FEET AND 6 TIMES THE HEIGHT DIFFERENCE.

FOUNDATION NOTES

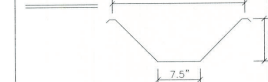
NOTE: THE FOUNDATION ON THE DRAWING SPECIFIES THE MINIMUM REQUIREMENTS. LOCAL BUILDING CODE AND SITE CONDITIONS MAY REQUIRE A STRONGER FOUNDATION WHICH MUST BE DESIGNED BY A LOCAL ENGINEER.

- 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.
- SLAB ON GRADE SHALL BE PLACED ON WELL COMPACTED SOIL CAPABLE OF SUSTAINING 75 kPa WITHOUT APPRECIABLE SETTLEMENT.

DESIGN DATA (MATERIALS)

- CONCRETE $f'_c = 25$ MPa @ 28 DAYS, CSA A23.3
- REINFORCING STEEL GRADE 400, $F_y = 400$ MPa, ASTM A618
- W.W.R. $F_y = 450$ MPa, ASTM A904.
- W.W.R. S24X52 - MW3AW9.

ARCH DATA



ENDWALL DATA



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 ($F_y = 345$ MPa)
 W SECTIONS SHALL CONFORM TO:
 ASTM A992 GRADE 50 ($F_y = 345$ MPa)
 OTHER SECTIONS SHALL CONFORM TO:
 ASTM A36 ($F_y = 250$ MPa)

ARCH DESIGN DATA IN ACCORDANCE WITH NBC 2015:

- L: ROOF LIVE LOAD (kPa) = 1
- S_G: GROUND SNOW (kPa) = 2
- C_s: ROOF SNOW FACTOR = 0.80
- C_w: WIND EXPOSURE FACTOR = 1.0
- C_e: MAX. SLOPE FACTOR = 1.0
- S_r: RAIN LOAD (kPa) = 0.30
- IMPORTANCE FACTOR (SNOW) = 0.8
- p: WIND EXTERNAL PRESSURE (kPa) = 0.36
- q: VELOCITY PRESSURE (1/50) (kPa) = 0.50
- C_w: EXPOSURE FACTOR = 0.9
- C_g: GUST EFFECT FACTOR = 2.0
- S_s(0.2): SPECTRAL RESPONSE ACCELERATION = 0.18

LEGAL NOTE

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

REVISED:

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5/12/2020	SIG	
DATE:	CHECKED BY:	
PROJECT:	RICHARD TEN BRINK AND MARTY STEWART	
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X28-36		20-1049
MODEL:		PKS

