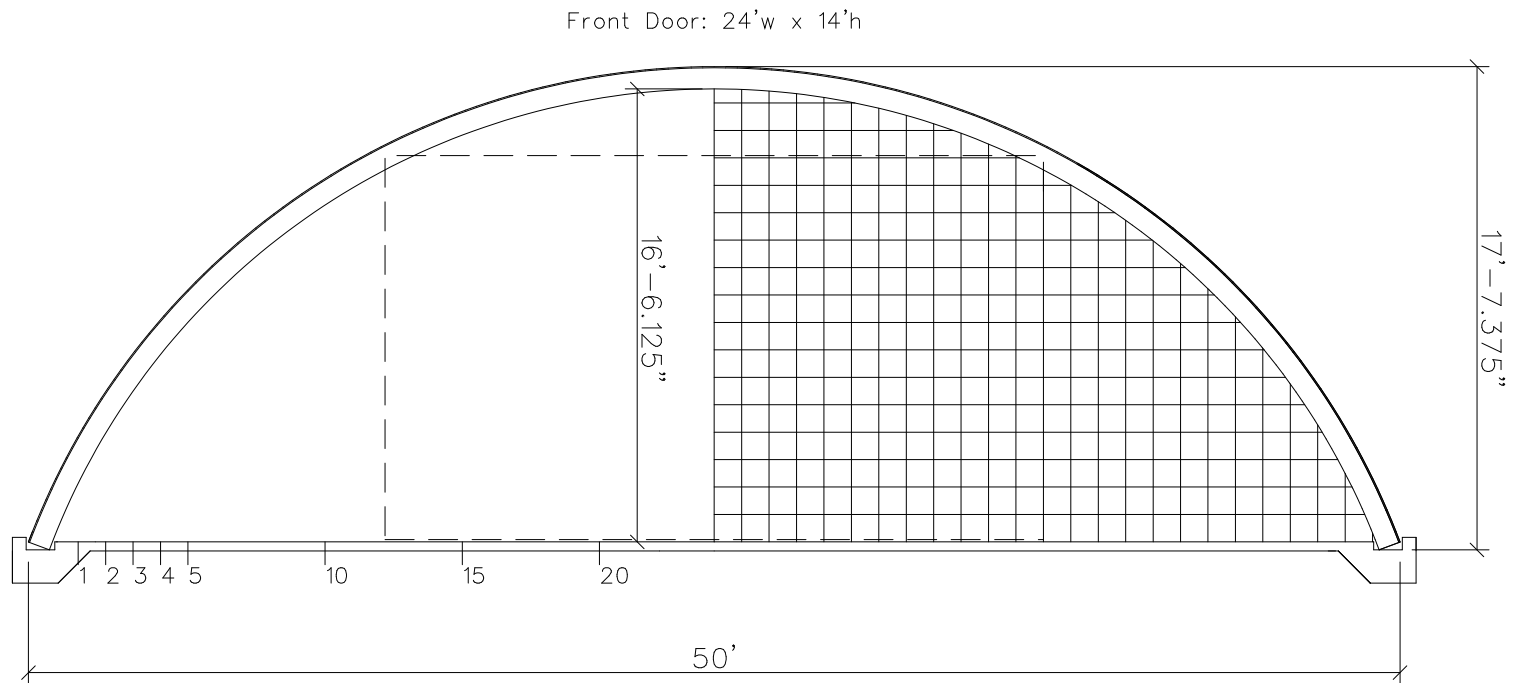
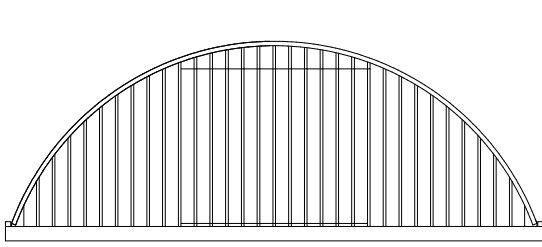


NOTE: THIS DRAWING IS PRELIMINARY. PLEASE REFER TO THE CERTIFIED BLUEPRINT FOR FINAL DIMENSIONS.

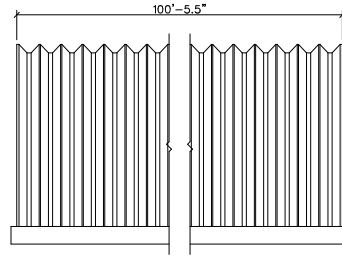
Horizontal Distance	Inside Clearance
1'	2'-1.5"
2'	3'-11.5"
3'	5'-6"
4'	6'-10"
5'	8'
10'	12'-3.5"
15'	14'-10"
20'	16'-2"



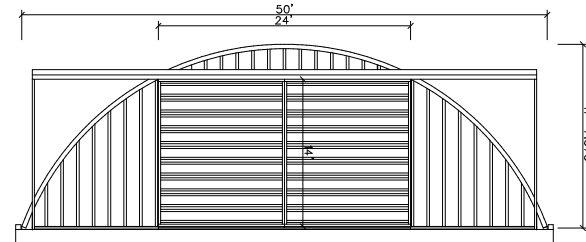
Standard 120" panels: 6	1 short panel: 113.06	bolts/arch: 209	Date: 10/9/2020
Endwall area, sq.ft: 630.02	Volume/ft, cu.ft: 621.45	Surface area/arch, sq.ft: 178.02	Total arch length: 776.82



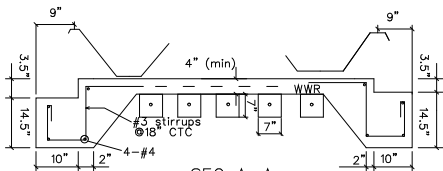
REAR ELEVATION



SIDE ELEVATION

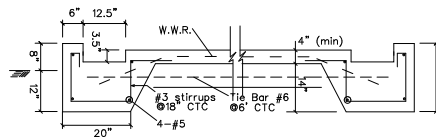


FRONT ELEVATION



SEC A-A

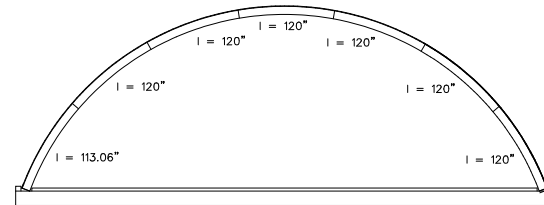
Total 16 Tie Bars $\text{\O}6'$ CTC



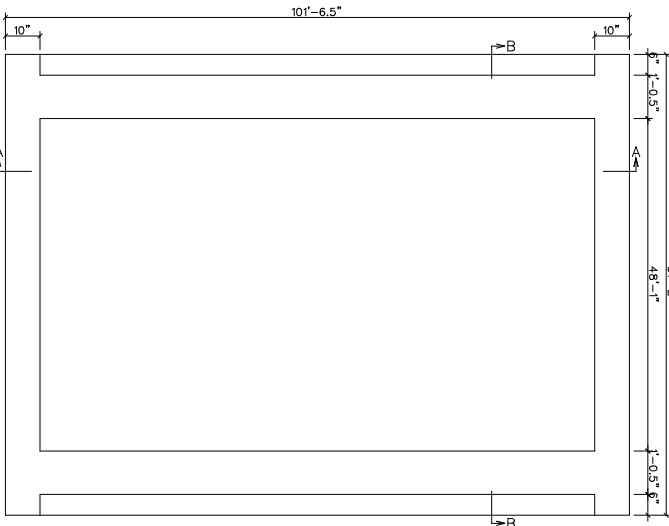
SEC B-B

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

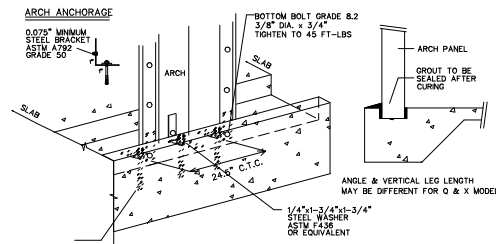
- Minimum Concrete Cover:
- (a) Concrete Cast against earth: 3"
 - (b) Concrete exposed to earth or weather: No. 6 through No. 10 bars: 2"
No. 5 bar and smaller: 1.5"
 - (c) Concrete not exposed to earth or weather: 0.75"



ARCH PROFILE

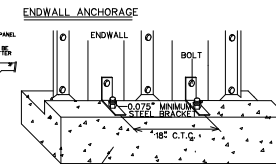


FOUNDATION PLAN



Hilti KB-TZ ANCHORS (CC-ESR-1917) OR EQUIVALENT:
 1/2" DIA. x 5 1/2" BOLTS WITH 4.4" EMBEDDED DEPTH FOR BUILDINGS LESS THAN 30'-0"
 5/8" DIA. x 10" BOLTS WITH 8.75" EMBEDDED DEPTH FOR 30'-0" WIDE AND GREATER

FIRST ANCHOR BOLT LOCATION:
 • 2.5" WITH NO ENDWALL OR WITH MANUFACTURER'S CLADDED ENDWALL
 • 33.5" WITH CORRUGATED MANUFACTURER'S ENDWALL
 ARCHES AND MANUFACTURER'S ENDWALLS MUST BE GROUTED INTO FOUNDATION ON BOTH SIDES OF PANELS.

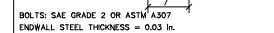
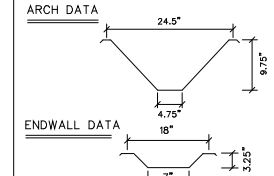


FIRST ANCHOR BOLT LOCATION:
 • SOLID ENDWALL = 9" FROM BUILDING CENTERLINE-18" C.T.C.
 • OPEN ENDWALL = 11" FROM OPENING-18" C.T.C.

- GENERAL NOTES
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST REVISION OF THE INTERNATIONAL BUILDING CODE 2006. DESIGN ACCORDING TO NASPEC-01, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AND WITH ANSI/ASCE 7-05.
 - 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 1500 psf. THIS SHALL BE DESIGNED TO FULLY RESIST ALL ROTATION AT THE BASE OF THE ARCH.
 - 5/8" ON GRADE SHALL BE PLACED ON WELL COMPACTED SOIL CAPABLE OF SUSTAINING 1500 psf WITHOUT APPRECIABLE SETTLEMENT.

- DESIGN DATA (MATERIALS)
- CONCRETE $f'_c = 2500$ PSI @ 28 DAYS, ACI
 - REINFORCING STEEL GRADE 40, $F_y = 40$ KSI, ASTM A615
 - W.W.R. $F_y = 65$ KSI, ASTM A188.
 - W.W.R. 6 x 6 - #14 x #14



- BOLTS: SAE GRADE 2 OR ASTM A307
 ENDWALL STEEL THICKNESS = 0.03 in.
- GALVALUME SHEET STEEL
 STRUCTURAL QUALITY ASTM SPECIFICATION A792-03
 55% ALUMINUM-ZINC ALLOY (HOT DP COATING)
 ASTM A792 GRADE 50A
 50 KSI MINIMUM YIELD
 65 KSI MINIMUM TENSILE
- HSS SECTIONS SHALL CONFORM TO:
 ASTM A500 GRADE B ($F_y = 48$ ksi)
 W SECTIONS SHALL CONFORM TO:
 ASTM A992 GRADE 50 ($F_y = 50$ ksi)
 OTHER SECTIONS SHALL CONFORM TO:
 ASTM A36 ($F_y = 36$ ksi)

- ARCH DESIGN DATA IN ACCORDANCE WITH ANSI/ASCE 7-05:
- ROOF LIVE LOAD (PSF) = 0
 P_g GROUND SNOW LOAD (PSF) = 0
 C_e EXPOSURE FACTOR = 1.0
 C_t THERMAL FACTOR = 1.0
 IMPORTANCE FACTOR (SNOW) = 0.8
 CATEGORY 1/AGRICULTURAL BUILDING
 P_{net} COMPONENT WIND PRESSURE (PSF) = +/- 0
 V BASIC WIND SPEED (MPH) = 0
 R_N VELOCITY PRESSURE EXPOSURE = 0.85
 IMPORTANCE FACTOR (WIND) = 0.87
 WIND EXPOSURE CATEGORY = C
 SEISMIC DESIGN CATEGORY = D2

LEGAL NOTE
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