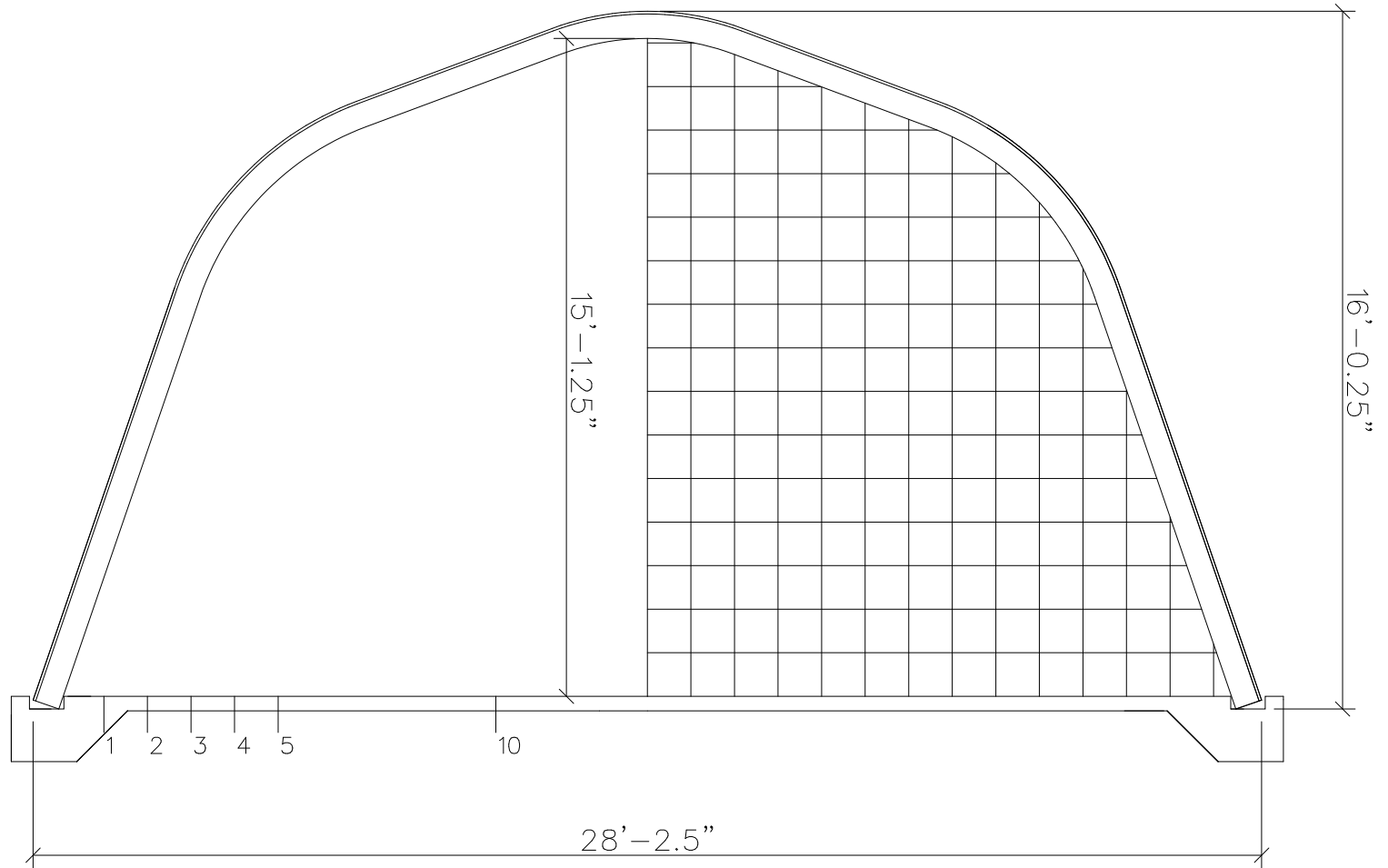
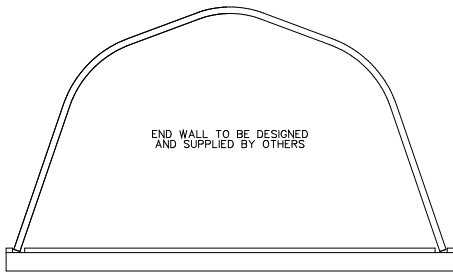


NOTE: THIS DRAWING IS PRELIMINARY. PLEASE REFER TO THE CERTIFIED BLUEPRINT FOR FINAL DIMENSIONS.

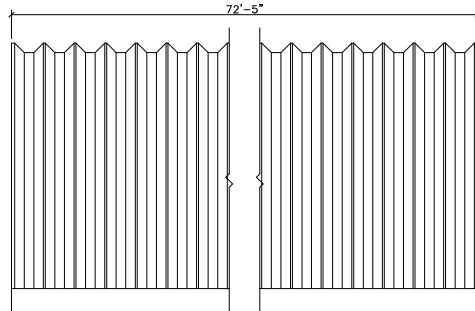
Horizontal Distance	Inside Clearance
1'	2'-8.5"
2'	5'-7.5"
3'	8'-6.5"
4'	10'-9"
5'	11'-10.5"
10'	14'-2"



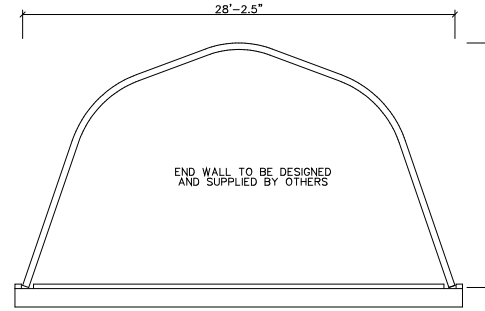
str. panels: 2@57.56	1 peak panel: 71.44	bolts/arch: 154	Date: 2023-09-20
2 eave panels: 92.25	str. wall panels: 2@120		
Endwall area, sq.ft: 337.67	Volume/ft, cu.ft: 323.16	Surface area/arch, sq.ft: 116.85	Total arch length: 557.19



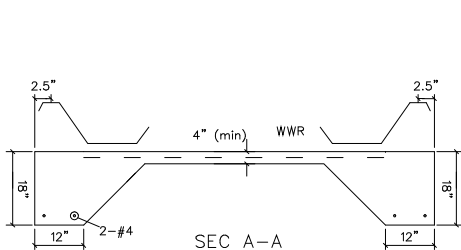
REAR ELEVATION



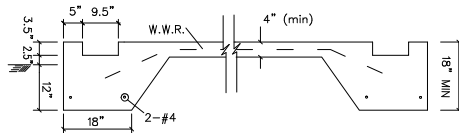
SIDE ELEVATION



FRONT ELEVATION



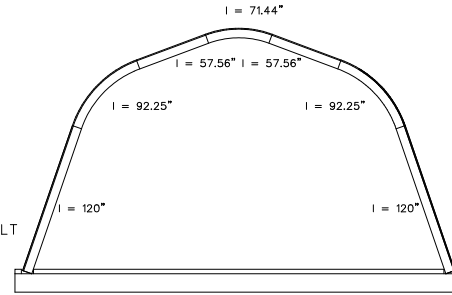
SEC A-A



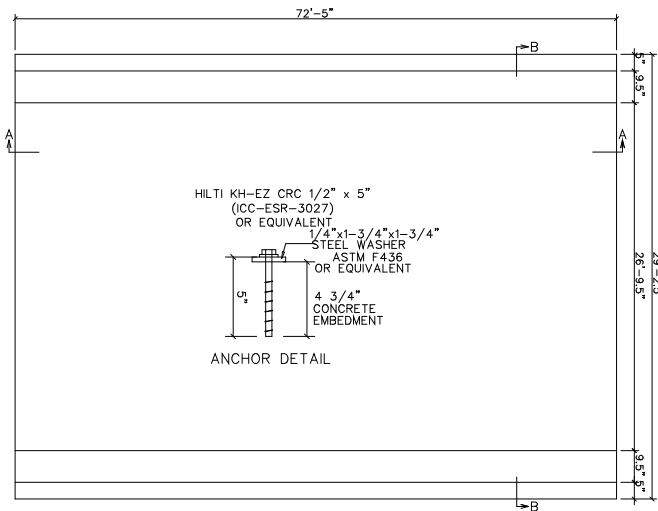
SEC B-B

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

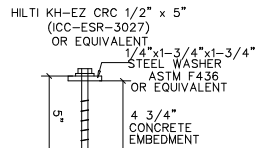
- Minimum Concrete Cover:
- (a) Concrete Cast against earth: 3"
 - (b) Concrete exposed to earth or weather: No. 6 through No. 10 bars: 2"
No. 5 bar and smaller: 1.5"
 - (c) Concrete not exposed to earth or weather: 0.75"



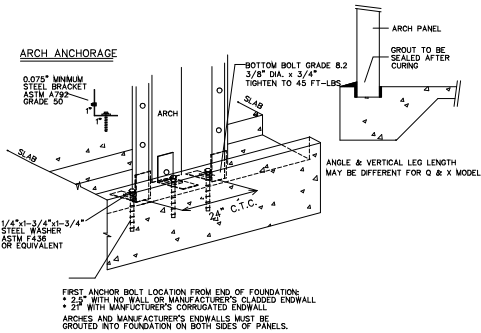
ARCH PROFILE



FOUNDATION PLAN



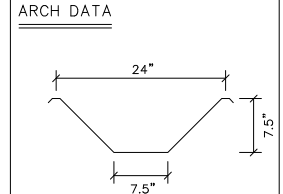
ANCHOR DETAIL



FIRST ANCHOR BOLT LOCATION FROM END OF FOUNDATION:
 • 24" WITH NO WALL OR MANUFACTURER'S GLAZED ENDWALL
 • 21" WITH MANUFACTURER'S CORRUGATED ENDWALL
 ARCHES AND MANUFACTURER'S ENDWALLS MUST BE GROUTED INTO FOUNDATION ON BOTH SIDES OF PANELS.

- GENERAL NOTES
1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST REVISION OF THE INTERNATIONAL BUILDING CODE 2006. DESIGN ACCORDING TO NASPC-01, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AND WITH ANSI/ASCE 7-05.
 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.
 8. IF SEALED BY AN ENGINEER, THIS DRAWING IS FOR PERMIT APPLICATION. OTHERWISE IT IS A DRAFT AND NOT FOR CONSTRUCTION.

- 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 1500 psf. 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 1500 psf WITHOUT APPRECIABLE SETTLEMENT.
- DESIGN DATA (MATERIALS)
1. CONCRETE $f'_c = 2500$ PSI @ 28 DAYS, ACI
 2. REINFORCING STEEL GRADE 40, $F_y = 40$ KSI, ASTM A615
 3. W.W.R. $F_y = 65$ KSI, ASTM A185.
 4. W.W.R. $6 \times 6 = W14 \times W14$



ARCH DATA

LEGAL NOTE
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REVISE:	
Future Steel Buildings Intl. Corp.	
ENGINEER'S SEAL:	220 Chrysler Drive, Brampton, Ontario, Canada, L6S 4B6, Phone: (905) 790-8500
SCALE:	N.T.S.
DATE:	2022-09-20
PROJECT:	APPROVED BY: [Signature] CHECKED BY: [Signature]
MODEL:	X28-16

Easy DIY Assembly Steps



1 Gather basic hand tools and a few friends

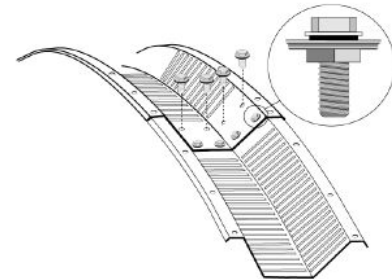
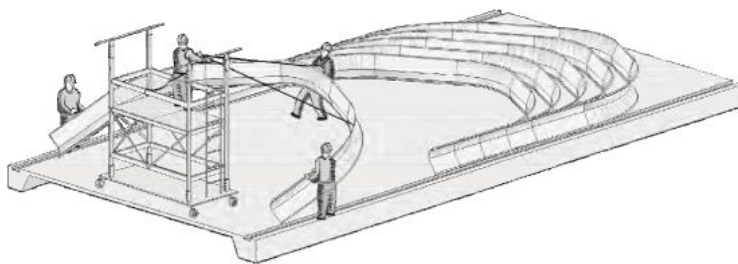
Tools:

- Tape measures (50' or 100', and 10')
- Spirit level and/or laser level
- Wrenches, sockets and ratchets
- Plumb-bob and chalk line
- Drift pins and S hooks
- Hacksaw, metal shears, reciprocating saw
- Electric drill ($\frac{3}{8}$ " minimum, variable speed)
- Cordless drill-driver, electric or pneumatic impact gun



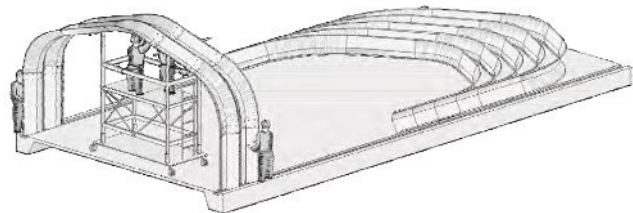
2 Assemble the arches on the ground

- Arch panels are bolted end to end and overlap one another by two rows of bolt-holes. Fasteners are only finger-tight at this stage.



3 Raise the arches

The second arch is raised in the same manner as the first, and then lifted over the rim of the first arch. Insert a bolt every third, or fourth hole along the rim of arch where they overlap. Repeat until all arches are erected & squared, then secure to your foundation. Tighten the bolts.



4 Install the endwalls & accessories

The end wall panels are symmetrical from the centerline of the building. This centerline marks the center of the bolt-holes on the first two (tallest) end wall panels where they overlap. Install these two panels first, and then install the remainder of the end wall panels working in sequence out towards the walls.

