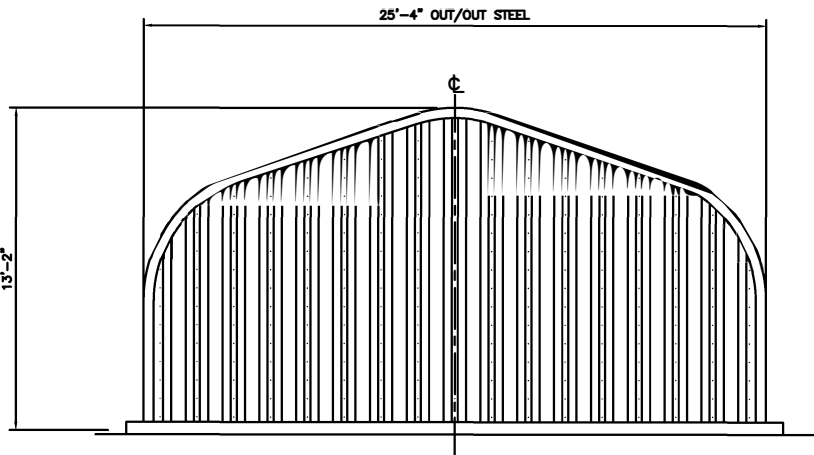
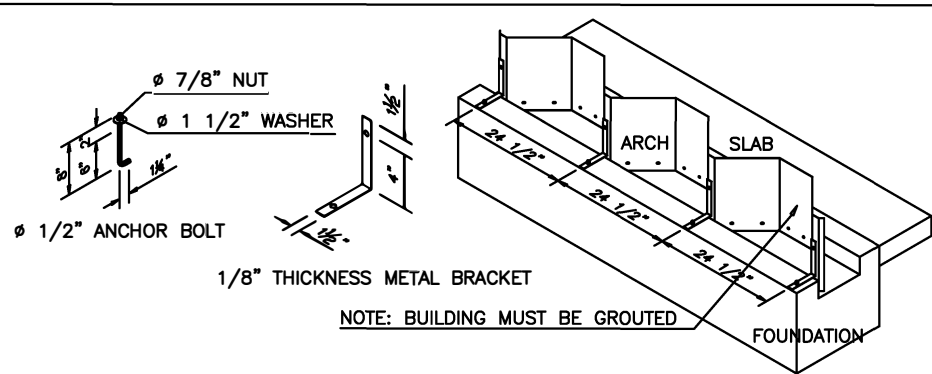


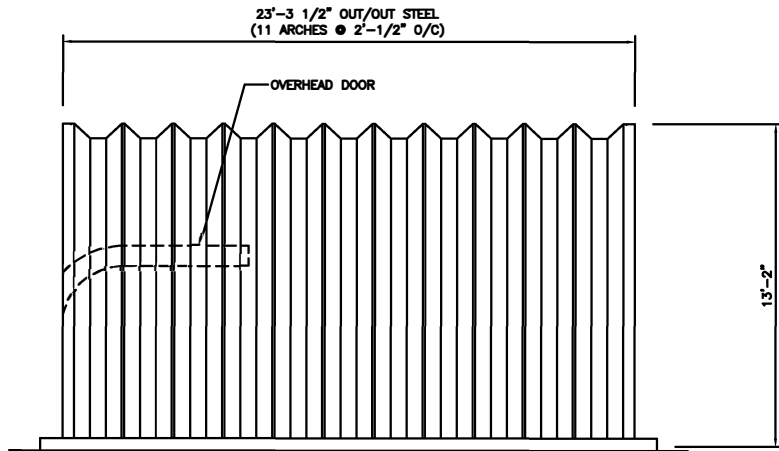
FRONT ELEVATION



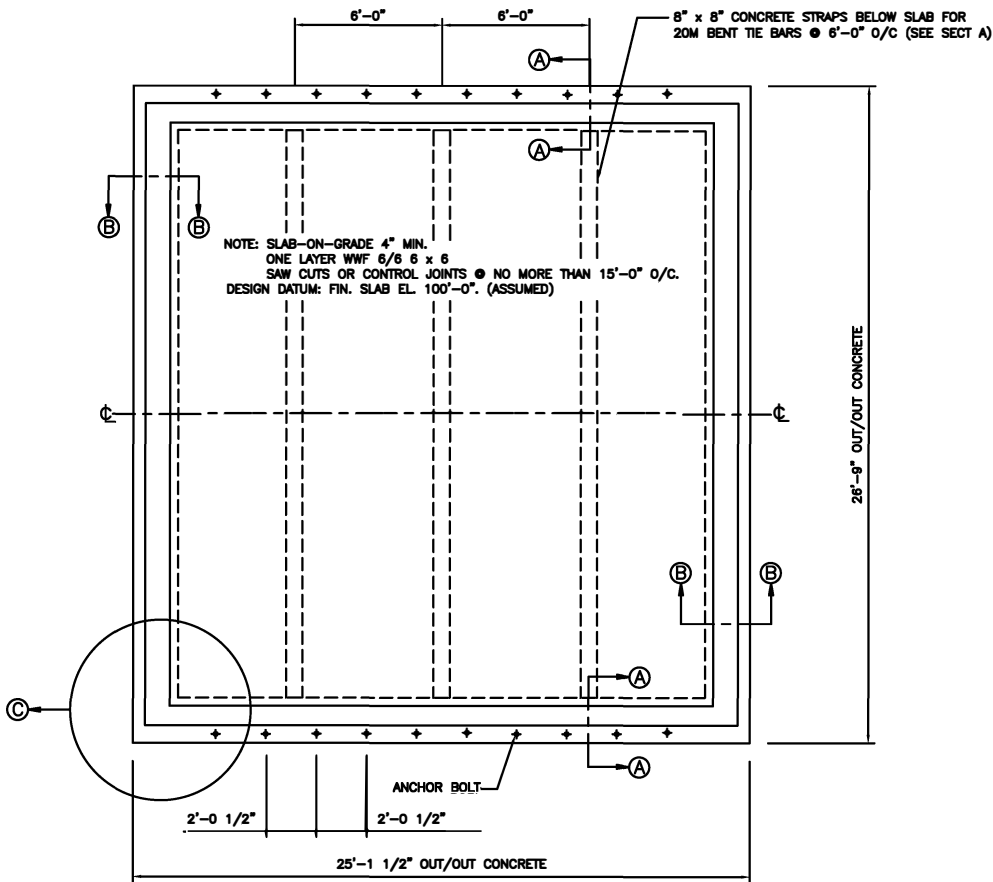
REAR ELEVATION



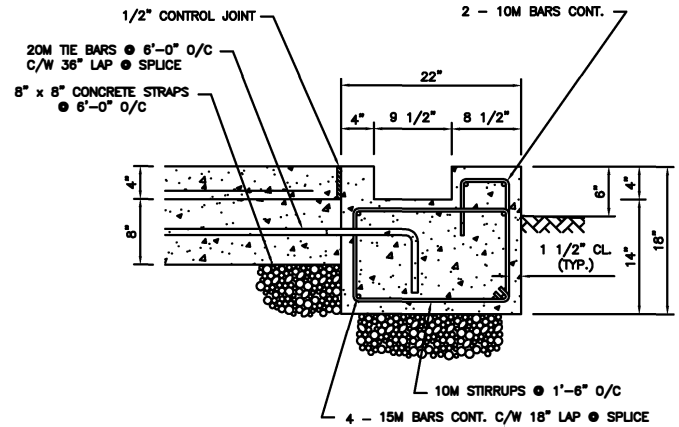
D DETAIL (CONNECTOR LAYOUT)  
NOT TO SCALE



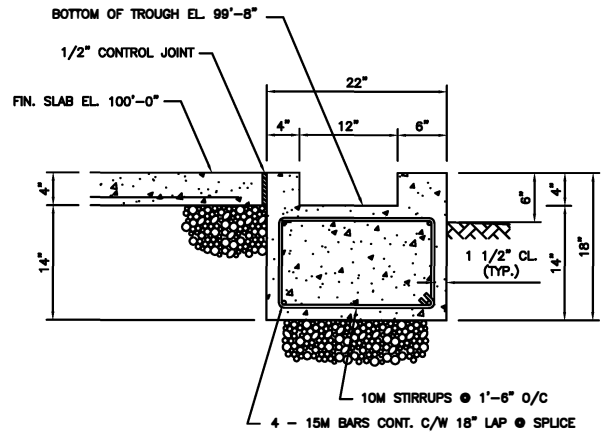
SIDE ELEVATION



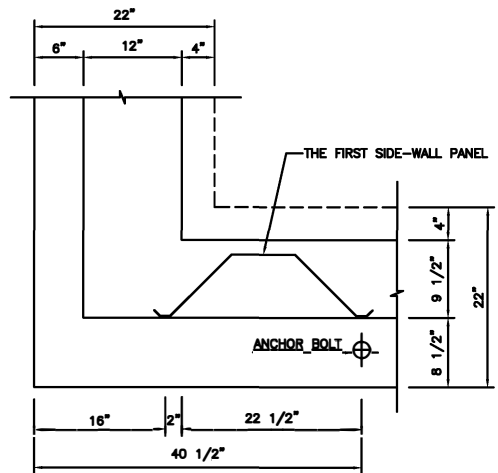
FOUNDATION PLAN



A SECTION (THROUGH SIDE WALLS)  
SCALE 1"=1'



B SECTION (THROUGH END WALLS)  
SCALE 1"=1'



C DETAIL (CONNECTOR LAYOUT)  
SCALE 1"=1'

GENERAL NOTES

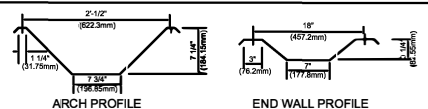
- \* ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST REVISION OF THE NATIONAL BUILDING CODE OF CANADA 2015 THE ONTARIO BUILDING CODE 2012 AND THE CSA-S136-12.
- \* THE FOUNDATION SHOWN IS A SUGGESTED DESIGN FOR GENERAL GUIDANCE ONLY. CHANGES MAY BE REQUIRED DUE TO LOCAL BUILDING REGULATIONS, SOIL CONDITIONS OR OTHER FACTORS OVER WHICH PIONEER STEEL HAS NO CONTROL.
- \* THE FOUNDATION SHALL BE CONSTRUCTED ON NATURAL UNDISTURBED SOIL CAPABLE OF SUSTAINING 100 kPa, AND SHALL BE DESIGNED TO FULLY RESIST ROTATION AT THE BASE OF THE ARCH.
- \* SLAB-ON-GRADE SHALL BE PLACED ON WELL-COMPACTED FILL CAPABLE OF SUSTAINING 100 kPa WITHOUT SETTLEMENT.
- \* FOR PROPER CONNECTION OF THE BUILDING AT THE FOUNDATION, BUILDING MUST BE ANCHORED TO TROUGH WITH ANGLE BRACKETS. SUBSEQUENTLY, GROUT MUST BE POURED INSIDE AND OUTSIDE THE ARCH PANEL AND AROUND THE BRACKET FORMING A SLOPE APPROXIMATELY 20 DEGREES FROM THE GROUND BEAM AND REACHING A HEIGHT OF APPROXIMATELY 6 1/2' AGAINST THE ARCH PANEL. THIS WILL CONTROL THE ROTATIONAL MOMENT.
- \* SPECIFIC NOTES AND DETAILS SHOWN ON THIS DRAWING SHALL TAKE PRECEDENCE OVER THE BUILDING ERECTION MANUAL SUPPLIED.
- \* STRUCTURAL DESIGN OF THE BUILDING IS BASED ON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS. FAILURE TO MAKE ADEQUATE PROVISION FOR EXCESSIVE STRESSES OR INSTABILITY OCCURRING FROM WHATEVER CAUSE DURING CONSTRUCTION SHALL BE THE SOLE RISK AND RESPONSIBILITY OF THE ERECTOR.
- \* ALL DIMENSIONS (OTHER THAN PURELY STRUCTURAL DIMENSIONS) SHOWN ON THIS DRAWING SHALL BE VERIFIED BY THE ERECTOR BEFORE PROCEEDING WITH THE WORK.
- \* IT IS THE OWNER'S RESPONSIBILITY TO ASCERTAIN THAT THE LOADS AND FACTORS SPECIFIED UNDER "DESIGN NOTES" ARE ADEQUATE FOR THE INTENDED LOCATION AND OCCUPANCY OF THIS BUILDING, AND THAT NO LOADS OTHER THAN THOSE SHALL BE IMPOSED ON THE STRUCTURE.

MATERIAL NOTES

STEEL: GALVALUME SHEET STEEL, STRUCTURAL QUALITY, ASTM A792 GRADE 50, 50 KSI. MIN. YIELD, 65 KSI. MIN. TENSILE. METAL THICKNESS OF SIDE WALL AND EAVE PANELS: 0.030" METAL THICKNESS OF ROOF PANELS: 0.030" A792 GRADE 80, 80 KSI. MIN. YIELD, 82 KSI. MIN. TENSILE. METAL THICKNESS OF END WALLS: 0.030" 5/16-18 X 3/4", SAE GRADE 2.

BOLTS: CONCRETE: 20 MPa AT 28 DAYS CURE. REBAR: DEFORMED BARS, GRADE 60.

PROFILE SCALE 3/4"=1'



REVISIONS

NO.	DATE	DESCRIPTION	BY	APPR.
1.	JULY 11/19	REVISED MODEL TO E-25-13	C. Z	R. S
2.	JULY 31/19	REVISED TO 11 ARCHES	C. Z	R. S

DESIGN NOTES

THE STRUCTURE DESIGN IS BASED ON THE NBCC 2015 AND THE ONTARIO BUILDING CODE 2012:

S : ROOF SNOW LOAD  
S<sub>g(50)</sub>: GROUND SNOW LOAD = 1.09 kPa.  
S<sub>g(50)</sub>: RAIN LOAD = 1.2 kPa.  
C<sub>b</sub>: BASIC SNOW LOAD FACTOR = 0.4 kPa.  
C<sub>w</sub>: WIND EXPOSURE FACTOR = 0.8  
C<sub>s</sub>: SLOPE FACTOR AS IN 4.1.6.2(5), (6), (7) = 1.0 (LOAD CASE II - UNEXPOSED LOCATION)  
C<sub>a</sub>: ACCUMULATION FACTOR AS IN 4.1.6.2(8)  
q : HOURLY WIND PRESSURE 1/50 = 0.47 kPa.  
IMPORTANCE FACTOR = 0.8 (LOW IMPORTANCE - AS IN 4.1.2.1)  
SEISMIC DATA  
S<sub>a</sub> (0.2): = 0.219  
S<sub>a</sub> (1.0): = 0.060  
SOIL SITE CLASS : D (STIFF SOIL)  
F<sub>s</sub>: = 1.3  
F<sub>v</sub>: = 1.4  
I<sub>e</sub>: IMPORTANCE FACTOR FOR EARTHQUAKE = 0.8 (LOW IMPORTANCE - AS IN 4.1.2.1)

NOTE:  
ACCORDING TO NBCC, A MINIMUM DISTANCE OF AT LEAST 5 m SHOULD BE MAINTAINED FROM ANOTHER EXISTING OR FUTURE BUILDING OR FROM THE PROPERTY LINE TO JUSTIFY DISREGARDING DRIFT LOADS

DRAWN BY  
C. ZONG

CHECKED BY  
R.N.A. SAWYER

APPROVED BY  
R.N.A. SAWYER

ENGINEER'S SEAL



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NAME

BUILDING MODEL  
ECONOSPAN 25' -13'

ORDER NO.

DWG. NO.

SCALE  
1/4"=1'-0"

DATE

SHEET  
1 / 1