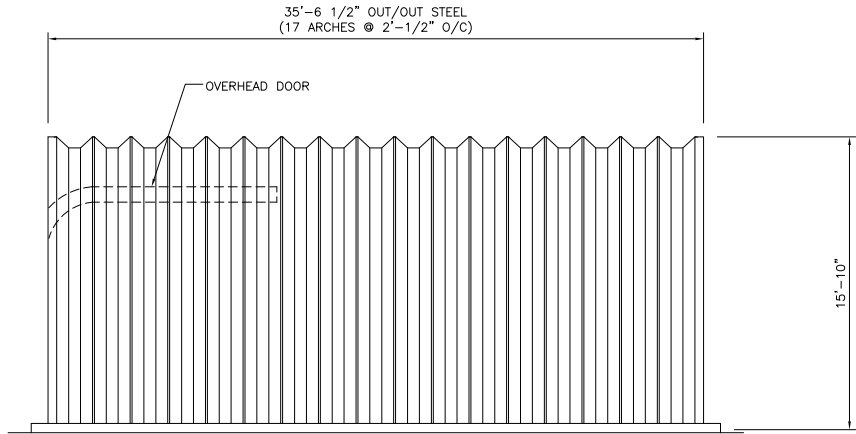
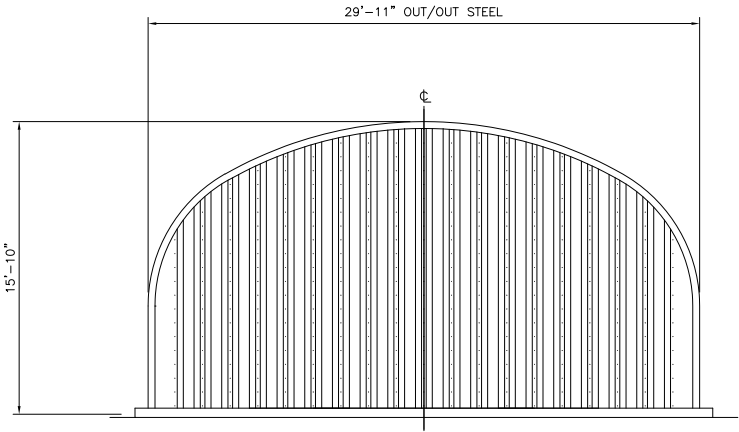


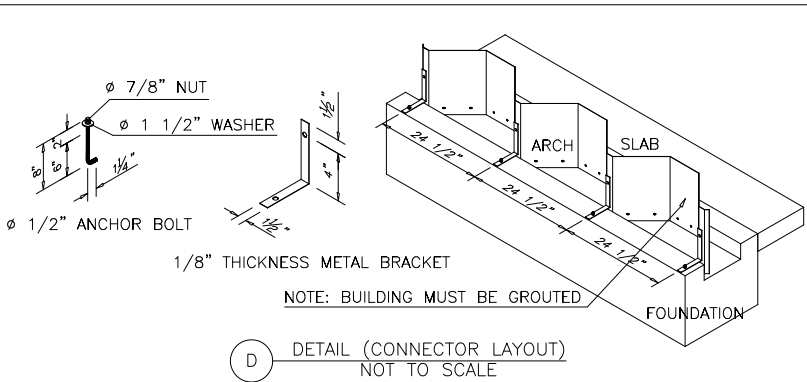
FRONT ELEVATION



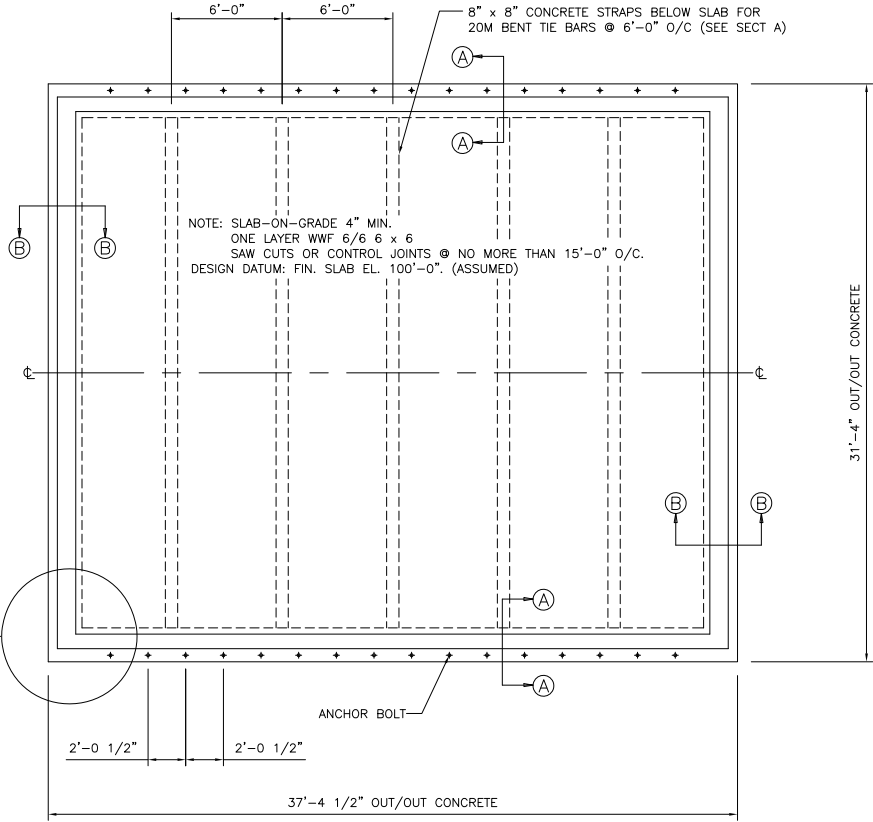
SIDE ELEVATION



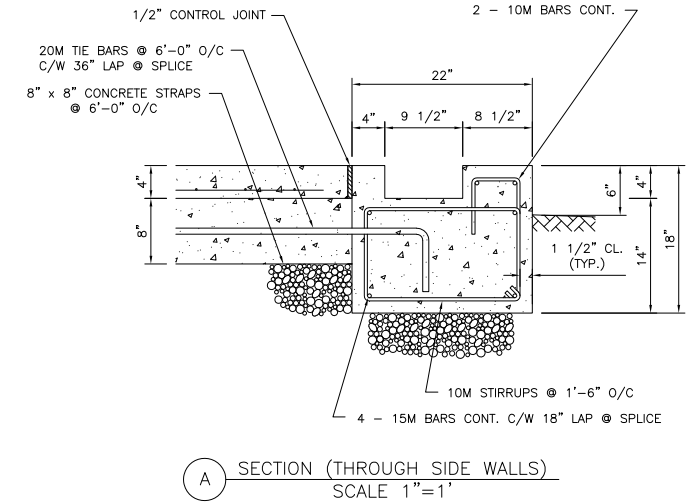
REAR ELEVATION



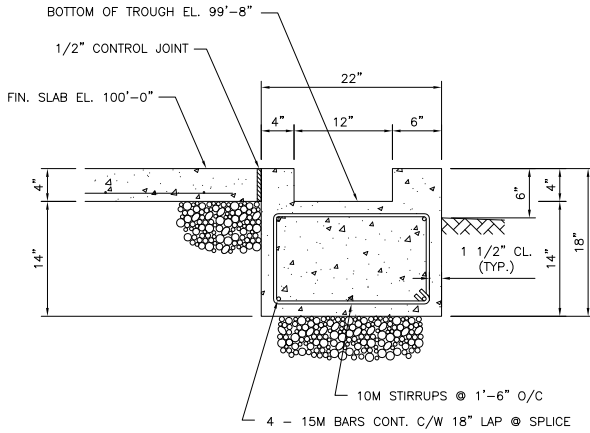
D DETAIL (CONNECTOR LAYOUT)  
NOT TO SCALE



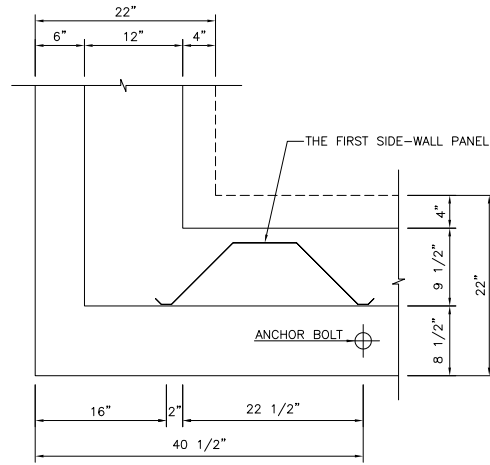
FOUNDATION PLAN



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



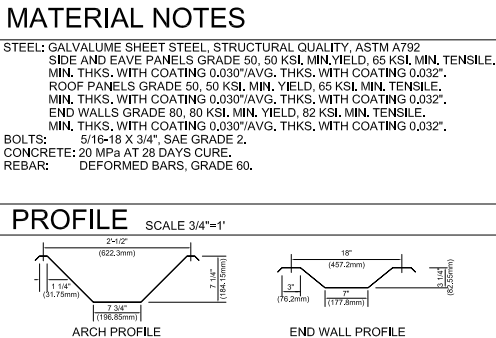
B SECTION (THROUGH END WALLS)  
SCALE 1"=1'



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 AND THE ONTARIO BUILDING CODE 2012 AND THE CSA-S136-16.
- 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 OWNERS 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.



REVISIONS				
NO.	DATE	DESCRIPTION	BY	APPR.

**DESIGN NOTES**


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

S : ROOF SNOW LOAD = 1.15 kPa.  
S<sub>800</sub> : GROUND SNOW LOAD = 1.3 kPa.  
S<sub>1000</sub> : RAIN LOAD = 0.4 kPa.  
C<sub>w</sub> : BASIC SNOW LOAD FACTOR = 0.8  
C<sub>s</sub> : WIND EXPOSURE FACTOR = 1.0 (LOAD CASE II - UNEXPOSED LOCATION)  
C<sub>a</sub> : SLOPE FACTOR AS IN 4.1.6.2(5), (6), (7)  
C<sub>a</sub> : ACCUMULATION FACTOR AS IN 4.1.6.2(8)  
q : HOURLY WIND PRESSURE 1/50 = 0.42 kPa.  
I<sub>e</sub> : IMPORTANCE FACTOR FOR EARTHQUAKE = 0.8 (LOW IMPORTANCE - AS IN 4.1.2.1)

SEISMIC DATA  
S<sub>a</sub> (0.2) : = 0.155  
S<sub>a</sub> (1.0) : = 0.049  
D (STIFF SOIL) : = 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 BAO NGO, P. ENG
APPROVED BY BAO NGO, P. ENG
ENGINEER'S SEAL



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NAME	BUILDING MODEL STRAIGHT 30'-16'
ORDER NO.	
DWG. NO.	
DWG. TITLE GENERAL ARRANGEMENT	SCALE 3/16"=1'-0"
DATE FEB 22, 2024	SHEET 1 / 1