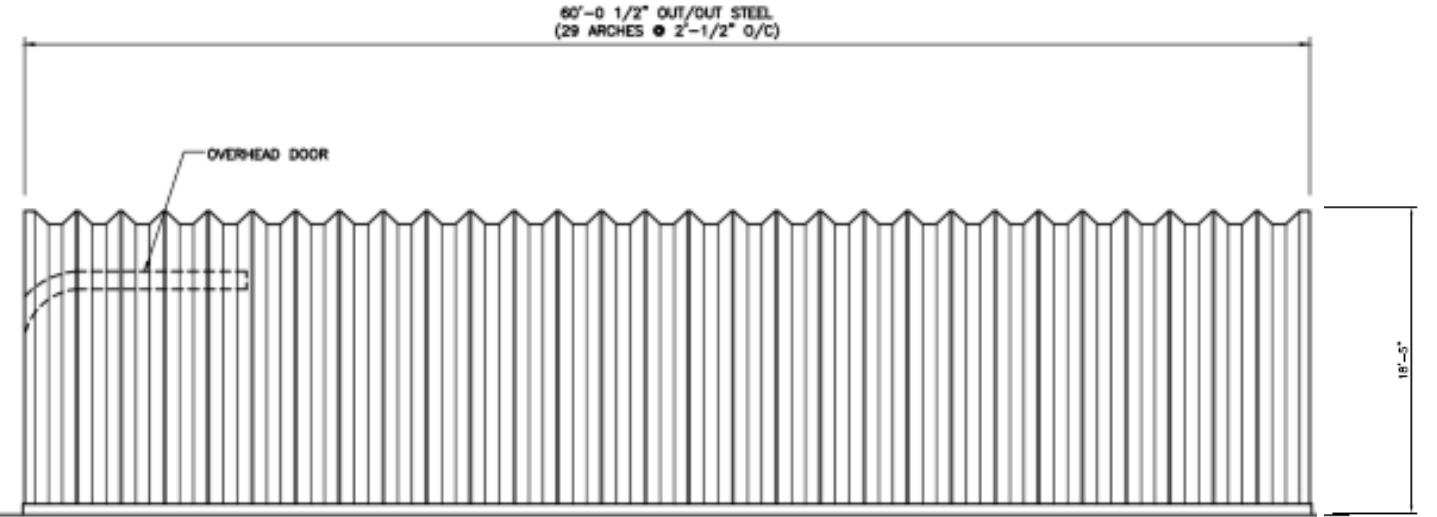
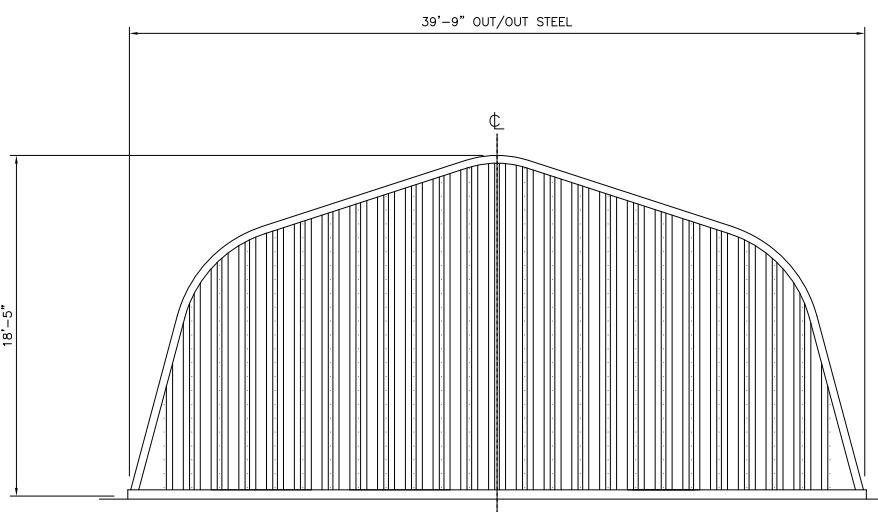


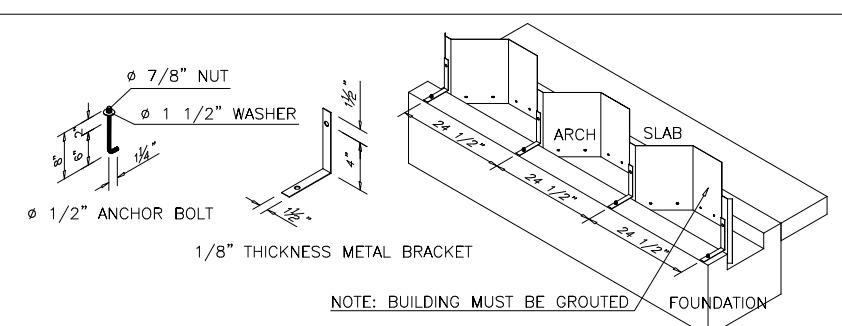
FRONT ELEVATION



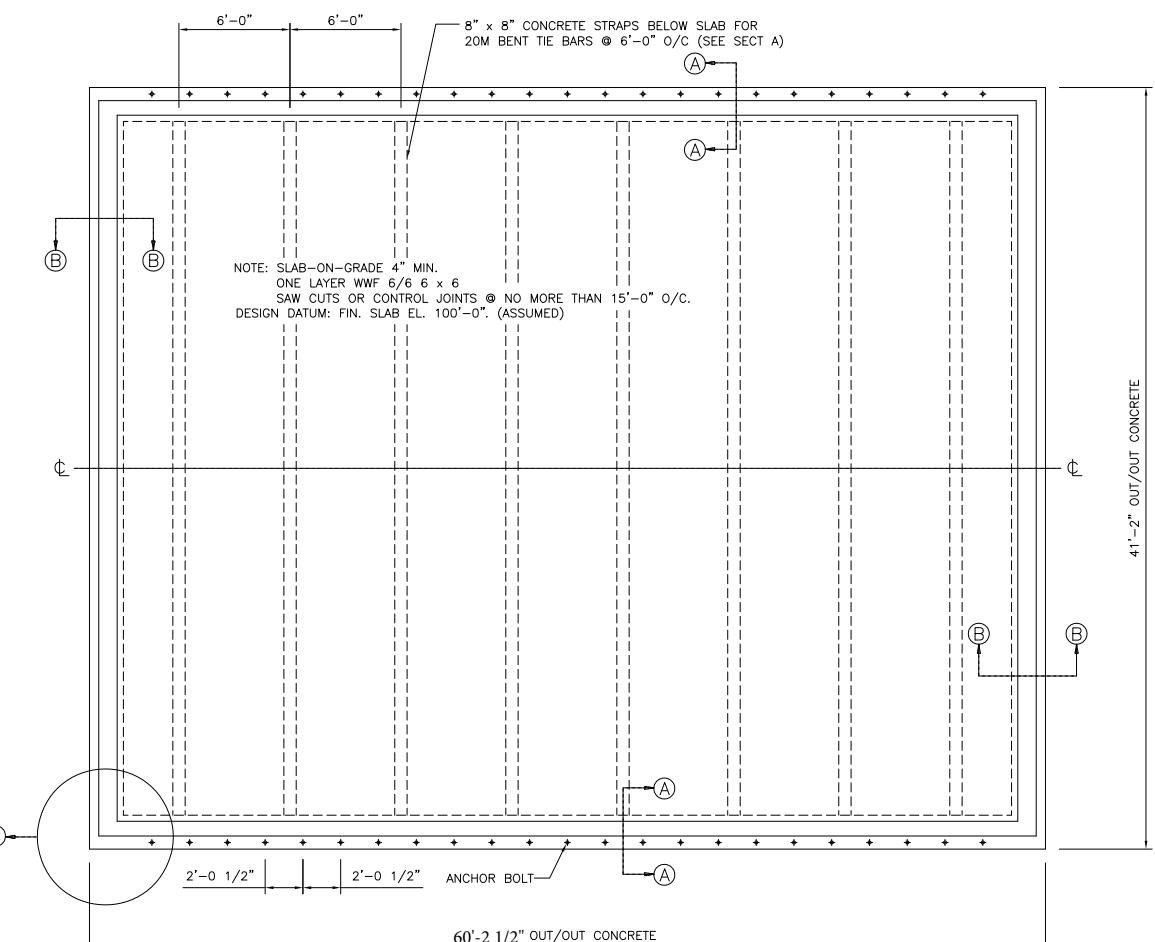
SIDE ELEVATION



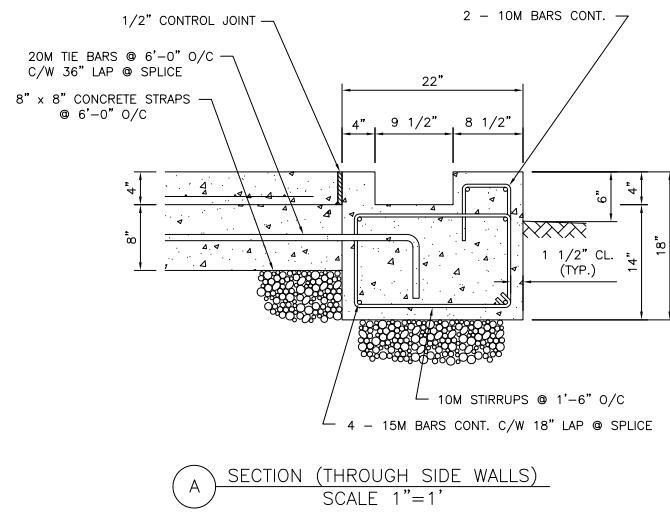
REAR ELEVATION



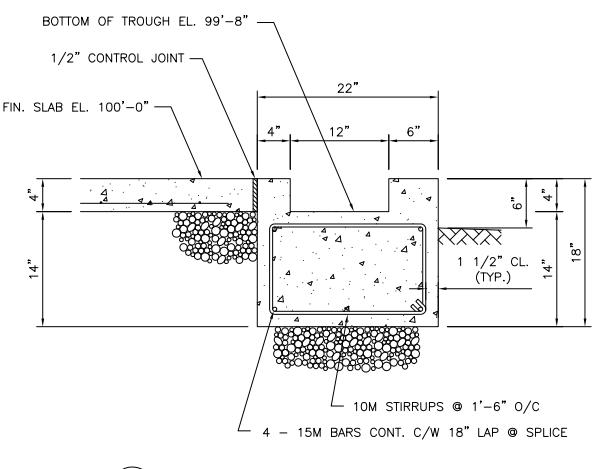
D DETAIL (CONNECTOR LAYOUT)
NOT TO SCALE



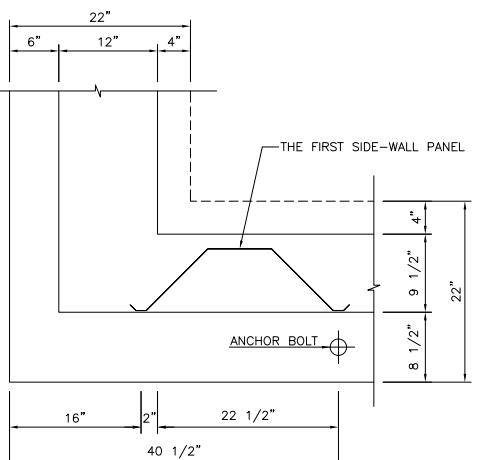
FOUNDATION PLAN



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

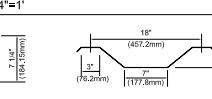
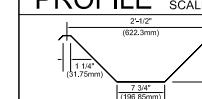
* ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST REVISION OF THE NATIONAL BUILDING CODE OF CANADA 2015 THE NBC-2019 ALBERTA EDITION AND THE CSA-S136-16.
* THE FOUNDATION SHOWN IS A SUGGESTED DESIGN FOR GENERAL GUIDANCE ONLY. CHANGES MAY BE REQUIRED DUE TO LOCAL BUILDING REGULATIONS, SOIL CONDITIONS, 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 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: GALVANIZED SHEET STEEL, STRUCTURAL QUALITY, ASTM A792. SIDE AND EAVE PANELS GRADE 50, 50 KSI MIN. YLD, 65 KSI MIN. TENSILE. MIN. THK. 1/8". END WALLS GRADE 50, 50 KSI MIN. YLD, 65 KSI MIN. TENSILE. MIN. THK. 1/8". ROOF PANELS GRADE 50, 50 KSI MIN. YLD, 65 KSI MIN. TENSILE. MIN. THK. 1/8". END WALLS GRADE 80, 80 KSI MIN. YLD, 82 KSI MIN. TENSILE. MIN. THK. 1/8". THK. WITH COATING 0.030" AVG. THK. WITH COATING 0.032". BOLTS: 5/16-18 X 3 1/4" SAE GRADE 2. CONCRETE: 20 MPa AT 28 DAYS CURE. REBAR: DEFORMED BARS, GRADE 60.

PROFILE

SCALE 3/4"=1'



REVISIONS

NO. DATE DESCRIPTION BY APPR.

DESIGN NOTES

THE STRUCTURE DESIGN IS BASED ON THE NBC 2015 AND THE NBC-2019 ALBERTA EDITION:
S : ROOF SNOW LOAD = 1.23 kPa.
S_{g(50)} : GROUND SNOW LOAD = 1.8 kPa.
S_{r(50)} : RAIN LOAD = 0.1 kPa.
C_b : BASIC SNOW LOAD FACTOR = 0.8.
C_w : WIND EXPOSURE FACTOR = 1.0 (LOAD CASE II - UNEXPOSED LOCATION)
C_s : SLOPE FACTOR AS IN 4.1.6.2(5), (6), (7)
C_a : ACCUMULATION FACTOR AS IN 4.1.6.2(8)
q : HOURLY WIND PRESSURE 1/50 = 0.41 kPa.
IMPORTANCE FACTOR = 0.8 (LOW IMPORTANCE - AS IN 4.1.2.1)
SEISMIC DATA
S_a (0.2) : = 0.100
S_a (1.0) : = 0.300
SOIL SITE CLASS : D (STIFF SOIL)
F_g : = 1.3
F_e : = 1.4
I_e : IMPORTANCE FACTOR FOR EARTHQUAKE = 0.8 (LOW IMPORTANCE - AS IN 4.1.2.1)
NOTE: ACCORDING TO NBC, 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

NAME
PIONEER

PIONEER STEEL
MANUFACTURERS
LIMITED
1045 Matheson Blvd. East
Mississauga, Ontario
Canada L4W 3P1
1-800-668-5422

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BUILDING MODEL
ALPINE 40'-18'

ORDER NO. . . .

DWG. NO. . . .

DWG. TITLE

SCALE
3/16"=1'-0"

DATE
AUG 22, 2024

1 / 1

GENERAL ARRANGEMENT