

PROPOSED NIU TRAILER UNITS

FLEET & INVENTORY

TRAINING & COMPLIANCE RELOCATION

TRAILER PLANS



THE GENERAL CONTRACTOR SHALL CHECK, VERIFY DIMENSIONS ON SITE AND REPORT ERRORS AND OMISSIONS. DRAWINGS MUST NOT BE SCALED. DRAWINGS ARE DIAGRAMMATIC CONCEPTS OF THE DESIGN. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CONSISTENCY WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.

NO	DATE	ISSUE
1	2026.09.28	

DESIGN

ENGINEERING SHALL NOT BE RESPONSIBLE FOR ANY ACT OF OMISSION BY THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSON PERFORMING THE STRUCTURAL WORKS OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORKS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, MATERIALS INSTALLATION GUIDELINES, AND SPECIFICATIONS.

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DO NOT SCALE DRAWINGS.



PROJECT TITLE:
PROPOSED NIU TRAILER UNITS
6685 114 AVE. SE, CALGARY, ALBERTA
THE CITY OF CALGARY

DRAWING TITLE :
COVER SHEET

DRAWN BY: LJMA	DRAWING NO. A0
CHECKED BY: LCA	
SCALE: As shown	
DATE: SEP. 28, 2026	
REV. NO. :	

PROJECT NO.:

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NIUTM
smart toilet

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6685 114 AVE. SE, CALGARY, ALBERTA
THE CITY OF CALGARY

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COVER SHEET

DRAWN BY:
LJMA

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LCA

SCALE:
As shown

DATE:
SEP. 28, 2026

PROJECT NO.:

DRAWING NO.

A0

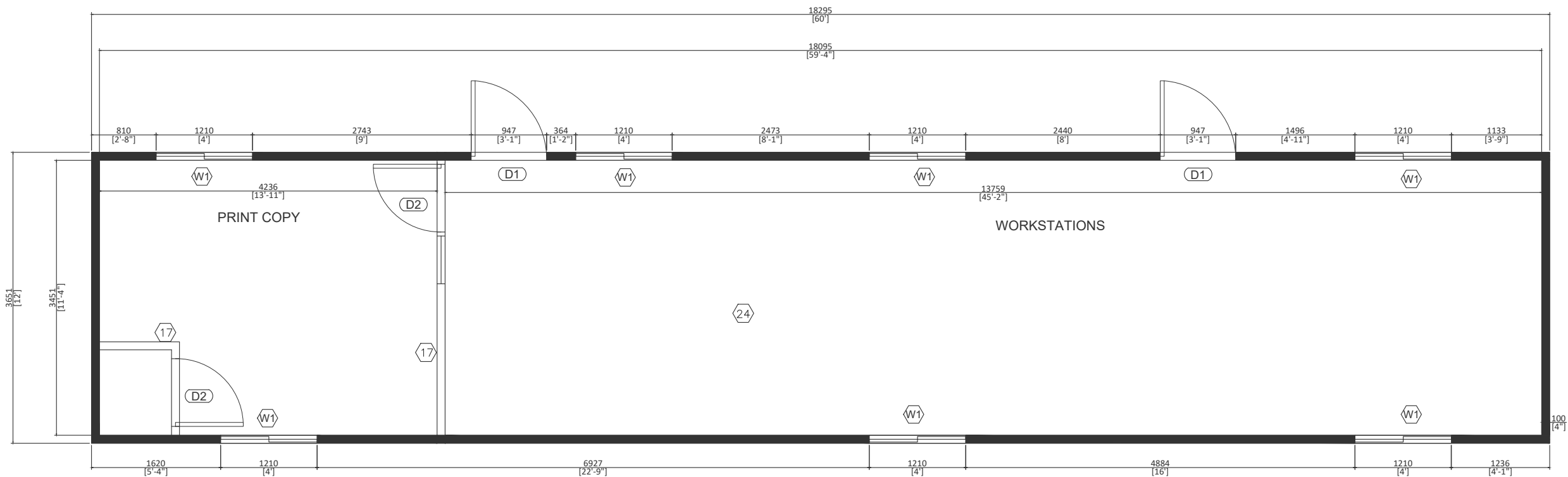
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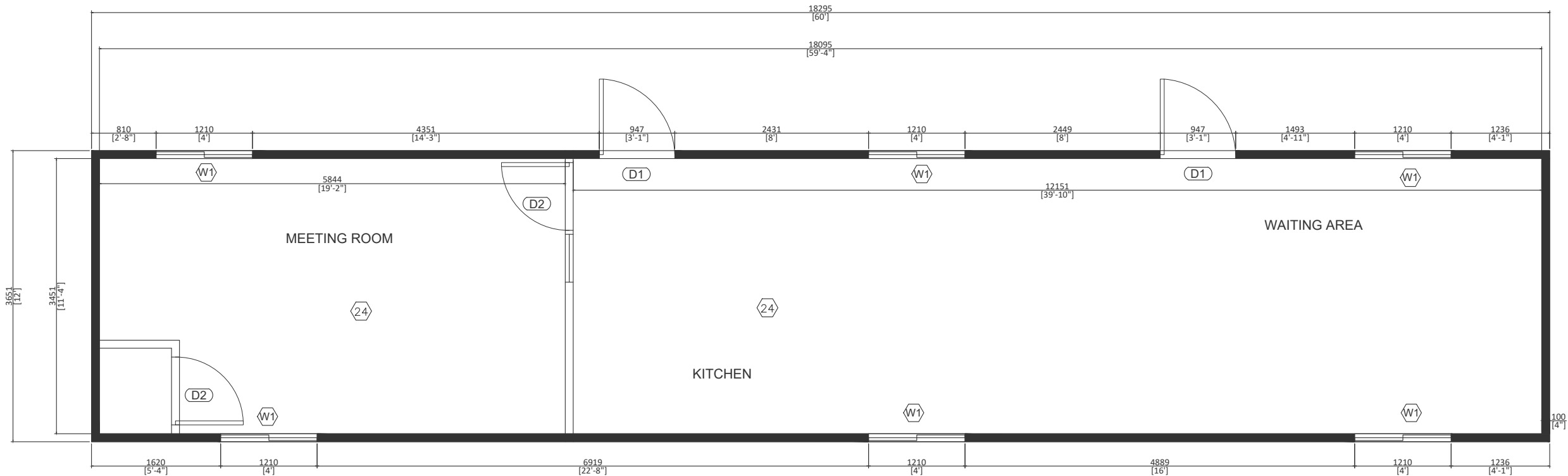
CONSTRUCTION SPECIFICATIONS – REFER TO NIU PRODUCT INFORMATION				THE GENERAL CONTRACTOR SHALL CHECK, VERIFY DIMENSIONS ON SITE AND REPORT ERRORS AND OMISSIONS. DRAWINGS MUST NOT BE SCALED. DRAWINGS ARE DIAGRAMMATIC CONCEPTS OF THE DESIGN, CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CONSISTENCY WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.		
				NO	DATE	ISSUE
① REFER TO STANDARD EQUIPMENTS				1	2026.09.28	
② FOUNDATION WALL						
10" CONCRETE MASONRY UNIT ON 20"x6" CONC STRIP FOOTING 2–15M CONTINUOUS HOR. REINF. AND 9 GA. TRUSS JOINT REINFORCEMENT @ EVERY 2 COURSES HORIZONTAL 15M @ 16" DOWELS; MATCHING VERT. REINF. BITUMINOUS DAMPROOFING ON MINIMUM ¼" PARGING ON 10" CONCRETE FOUNDATION WALL PROVIDE PARGING COVERED OVER 24" X 12" POURED CONCRETE FOOTING TO BEAR ON UNDISTURBED SOIL PROVIDE DRAINAGE LAYER MIN. 4" OF FREE DRAINING GRANULAR MATERIAL OR DRAINAGE LAYER MATERIAL TIE NEW CMU FOUNDATION WALL TO EXISTING W/ 1–10M ROD 8" LONG & 4" INTO WALL EVERY 16" (TYP.); USE EPOXY GLUE NOTE: PROPRIETARY DIMPLED WATERPROOFING MEMBRANE / FOUNDATION WRAP MAY BE USED IN LIEU OF BITUMINOUS DAMPROOFING AND PARGING. FOLLOW MANUFACTURER INSTRUCTIONS FOR INSTALLATION.						
③ GRADE						
SLOPE GRADE AWAY FROM BUILDING FACE AND PROVIDE SEMI–SOLID BLOCK COURSE AT OR BELOW GRADE LEVEL						
④ SILL PLATE						
2"x6" SILL PLATE FASTENED TO FOUNDATION WALL WITH MIN. ½" DIA ANCHOR BOLTS EMBEDDED MIN. 4" IN CONCRETE @ 7'–10" O.C. MAX PROVIDE CAULKING OR GASKET BETWEEN PLATE AND THE FOUNDATION WALL						
⑤ FLOOR INSULATION						
CONTINUOUS HEADER JOIST WITH R24 BATT INSULATION EXTEND VAPOR/AIR BARRIER AND SEAL TO JOIST AND SUBFLOOR						
⑥ FOUNDATION INSULATION						
ASPHALT SATURATED TAR PAPER 2X2 WOOD SPACER @ WALL CORNERS R10 RIGID BOARD CONTINUOUS INSULATION 2X4 WOOD STUDS @ 16" O.C. R12 BATT INSULATION IN CONTINUOUS 6 MIL AIR/VAPOR BARRIER 1/2" GYPSUM BOARD (REGULAR WALL) OR 1/2" WATER–RESISTANT GYPSUM WALLBOARD/CEMENT BOARD @ SHOWER AREA (FACING WASHROOM/POWDER ROOM INTERIOR) CERAMIC TILED FINISH @ SHOWER ENCLOSURE)						
⑦						
⑧ DRAINAGE						
4" DIA. WEEPING TILE 6" CRUSHED STONE COVER						
⑨ ROOF CONSTRUCTION						
ELASTOMERIC MEMBRANE ON MIN. ¾" EXTERIOR PLYWOOD SHEATHING ON APPROVED ENGINEERED ROOF TRUSSES OR CONVENTIONAL FRAMING (SEE PLANS) USE 'H' CLIPS IF 24" O.C. SPACING FASTENERS FOR ROOFING SHALL BE CORROSION RESISTANT. ROOFING NAILS SHALL PENETRATE THROUGH OR AT LEAST ½" INTO ROOF SHEATHING. OPEN VALLEYS SHALL BE FLASHED WITH 2 LAYERS OF ROLL ROOFING OR 1 LAYER OF SHEET METAL MIN. 23 8" WIDE. FLASHING SHALL BE PROVIDED AT THE INTERSECTION OF ROOFS WITH EXTERIOR WALLS. SHEET METAL FLASHING SHALL CONSIST OF NOT LESS THAN 0.013" GALVANIZED STEEL OR 0.019" ALUMINUM.						
				</		



SHEPARD-OWC BUILDING M2 (PRINT AND COPY UNIT)

PROPOSED
FLOOR PLAN
SCALE: 1: 60

- DOOR AND WINDOW SCHEDULE
- (D1) - 2'10" W X 6'-7" H INSULATED EXTERIOR DOOR
 - (D2) - 2'10" W X 6'-7" H INTERIOR WOOD DOOR
 - (W1) - 3'-11"H x 3'-11"W HIGH EFFICIENT SLIDING WINDOW



SHEPARD-OWC BUILDING M1 (KITCHEN UNIT)

PROPOSED
FLOOR PLAN
SCALE: 1: 60

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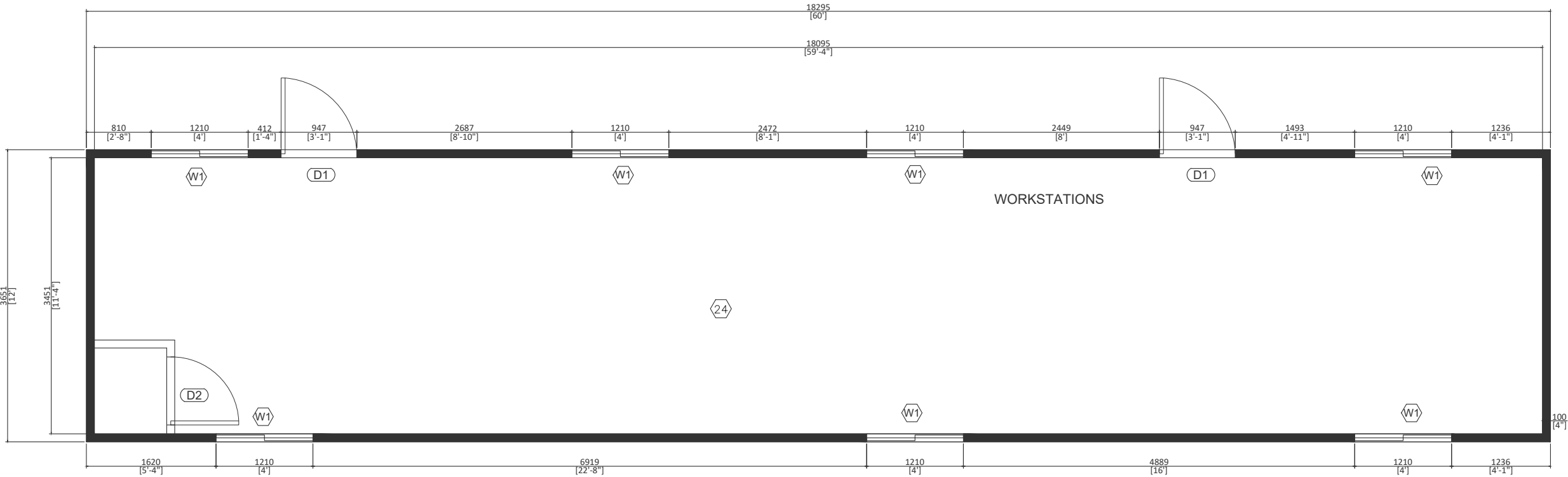


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6685 114 AVE. SE, CALGARY, ALBERTA
THE CITY OF CALGARY

DRAWING TITLE :
FLOOR PLAN
PRINT AND COPY UNIT
KITCHEN UNIT

DRAWN BY: LJMA	DRAWING NO. A2
CHECKED BY: LCA	
SCALE: As shown	
DATE: SEP. 28, 2026	
PROJECT NO.:	REV. NO. :

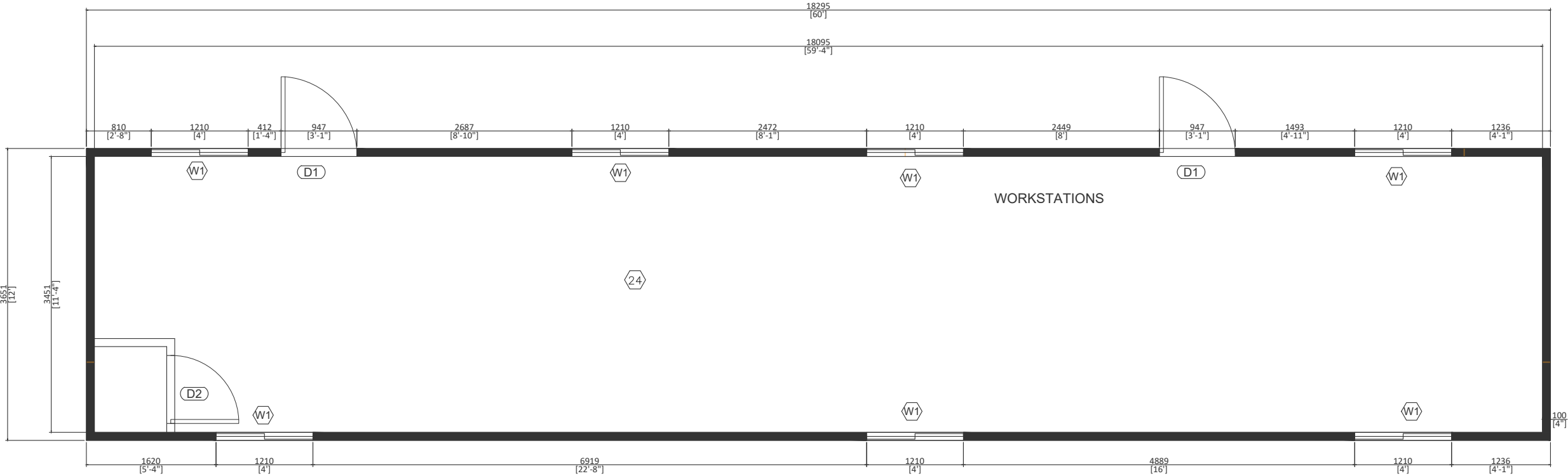
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SHEPARD-OWC BUILDING M3 (WORKSTATIONS)

PROPOSED
FLOOR PLAN
SCALE: 1: 60

- DOOR AND WINDOW SCHEDULE
- (D1) - 2'10" W X 6'-7" H INSULATED EXTERIOR DOOR
 - (D2) - 2'10" W X 6'-7" H INTERIOR WOOD DOOR
 - (W1) - 3'-11"H x 3'-11"W HIGH EFFICIENT SLIDING WINDOW



SHEPARD-OWC BUILDING M4 (WORKSTATIONS)

PROPOSED
FLOOR PLAN
SCALE: 1: 60

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PROJECT TITLE:

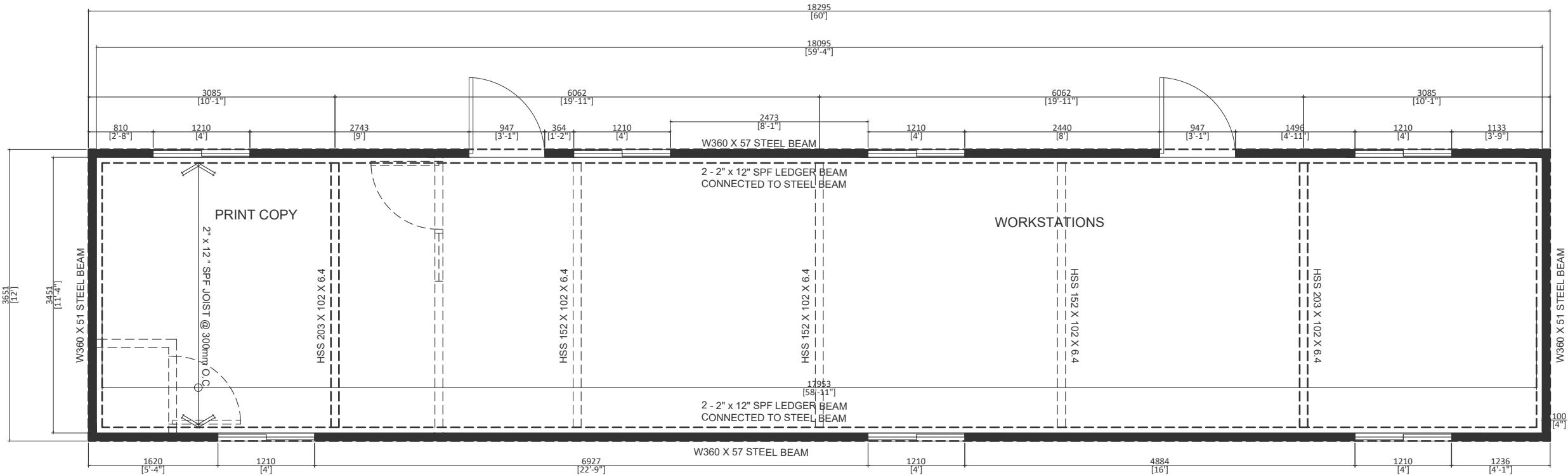
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THE CITY OF CALGARY

DRAWING TITLE :

**FLOOR PLAN
WORKSTATIONS**

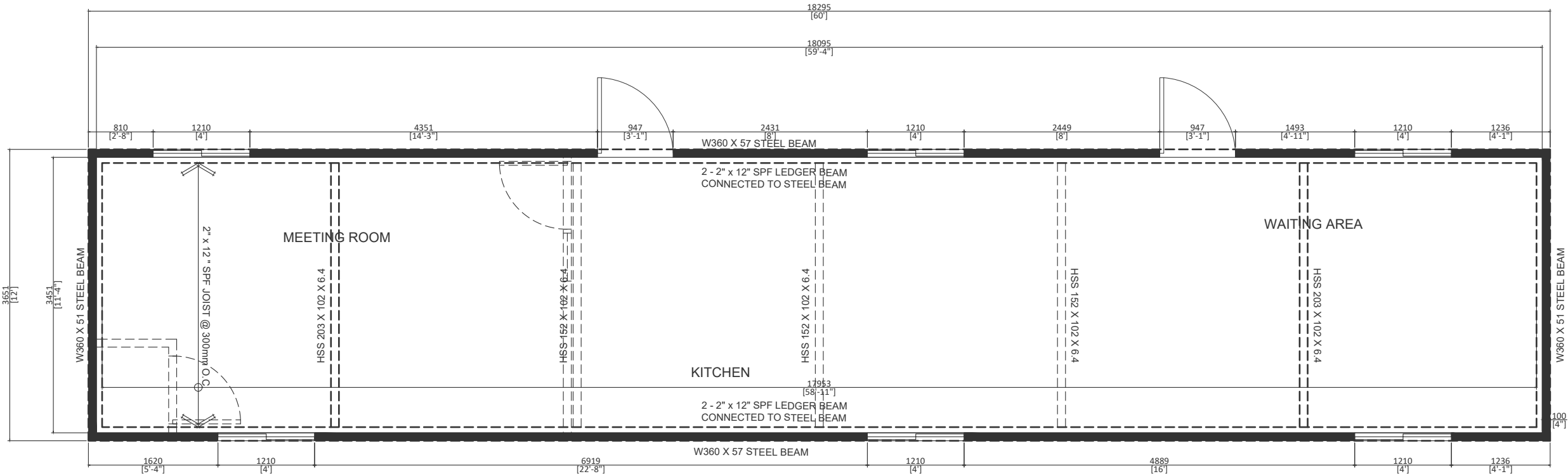
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SHEPARD-OWC BUILDING M2 (PRINT AND COPY UNIT)

PROPOSED
FLOOR FRAMING PLAN
SCALE: 1: 60



SHEPARD-OWC BUILDING M1 (KITCHEN UNIT)

PROPOSED
FLOOR FRAMING PLAN
SCALE: 1: 60

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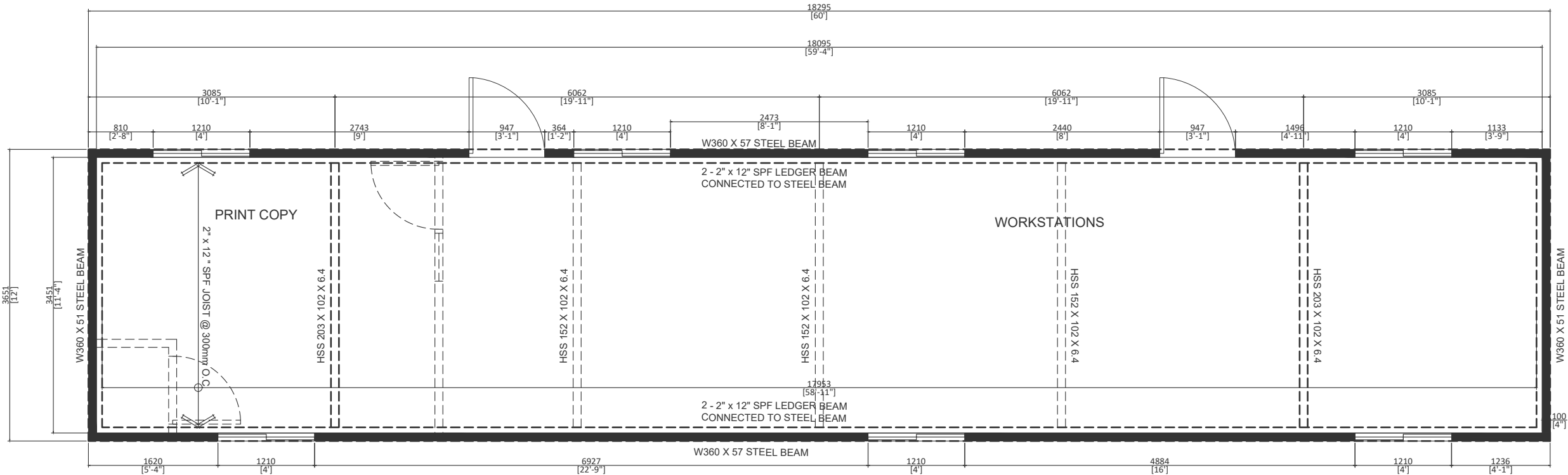
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THE CITY OF CALGARY

DRAWING TITLE :

FLOOR FRAMING PLAN
PRINT COPY AND KITCHEN UNIT

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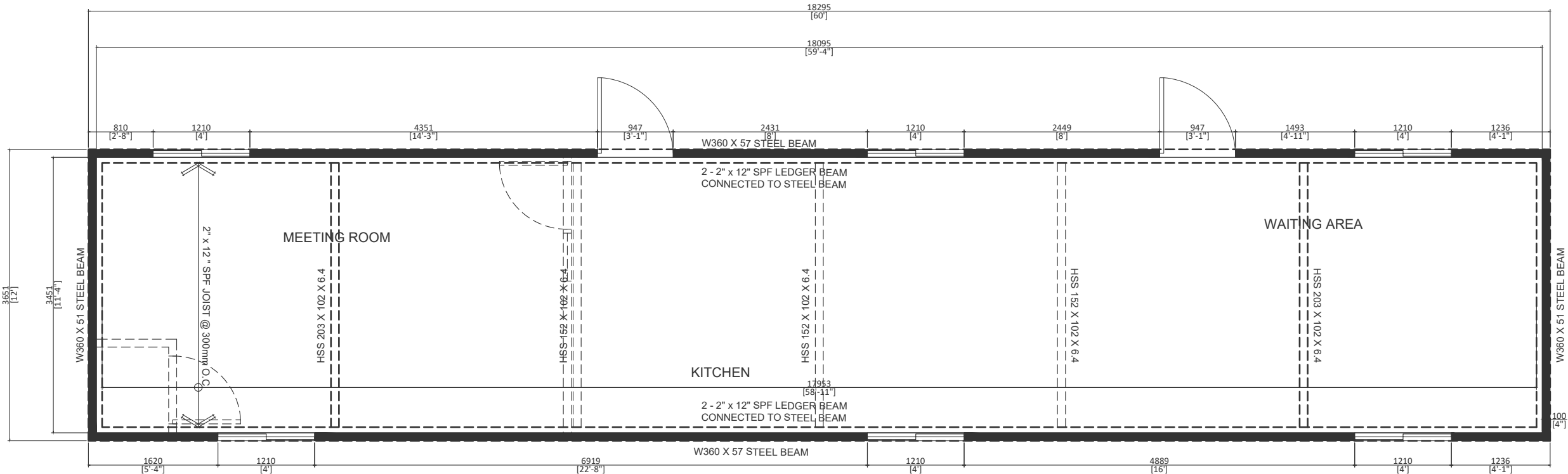


SHEPARD-OWC BUILDING M2 (PRINT AND COPY UNIT)

PROPOSED

FLOOR FRAMING PLAN

SCALE: 1: 60



SHEPARD-OWC BUILDING M1 (KITCHEN UNIT)

PROPOSED

FLOOR FRAMING PLAN

SCALE: 1: 60

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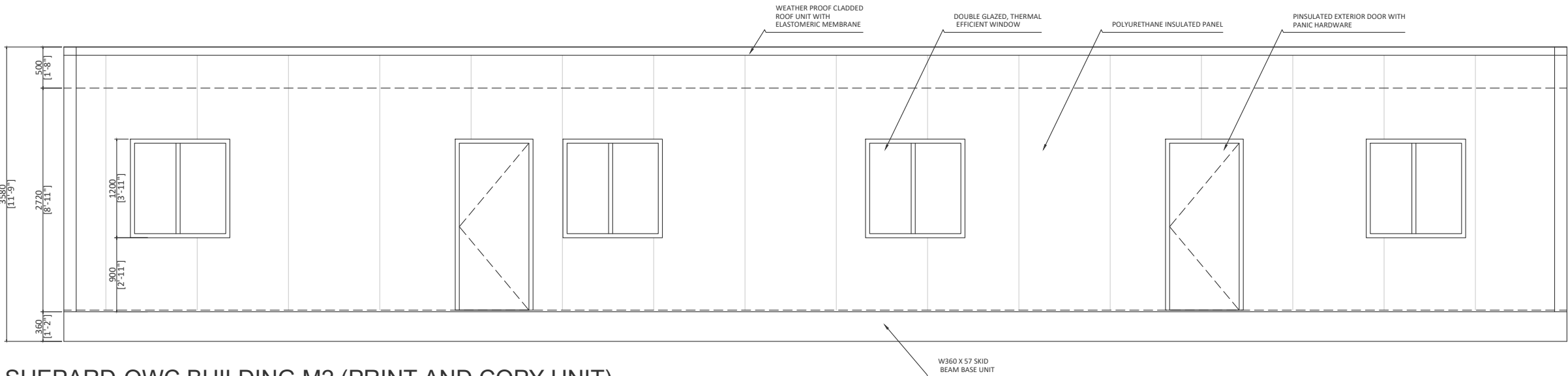
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THE CITY OF CALGARY

DRAWING TITLE :
FLOOR FRAMING PLAN
WORKSTATIONS

DRAWN BY: LJMA	DRAWING NO. A5 REV. NO. :
CHECKED BY: LCA	
SCALE: As shown	
DATE: SEP. 28, 2026	

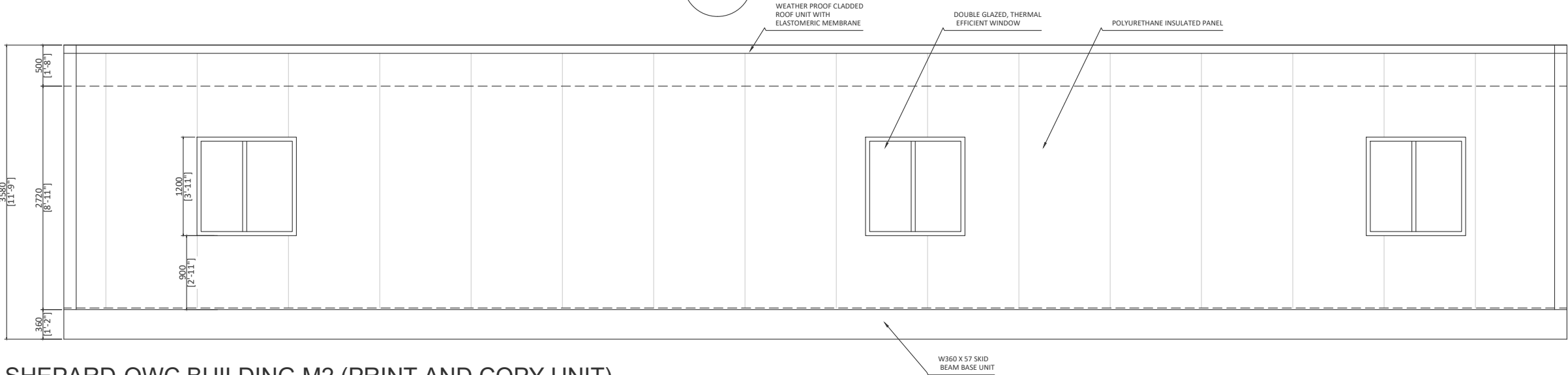
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SHEPARD-OWC BUILDING M2 (PRINT AND COPY UNIT)

PROPOSED
FRONT ELEVATION
SCALE: 1: 60



SHEPARD-OWC BUILDING M2 (PRINT AND COPY UNIT)

PROPOSED
REAR ELEVATION
SCALE: 1: 60

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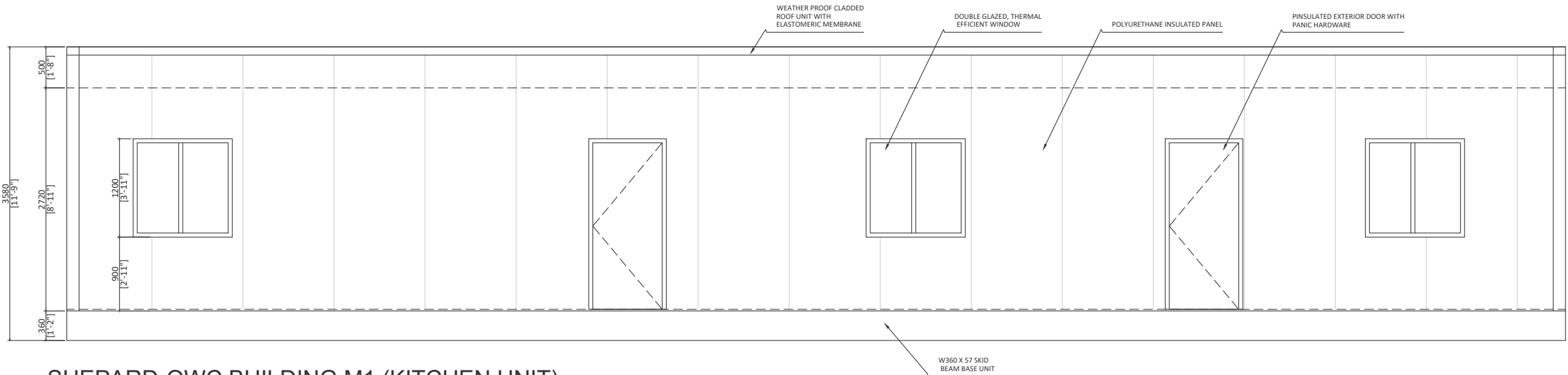
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THE CITY OF CALGARY

DRAWING TITLE :

ELEVATIONS
PRINT AND COPY UNIT

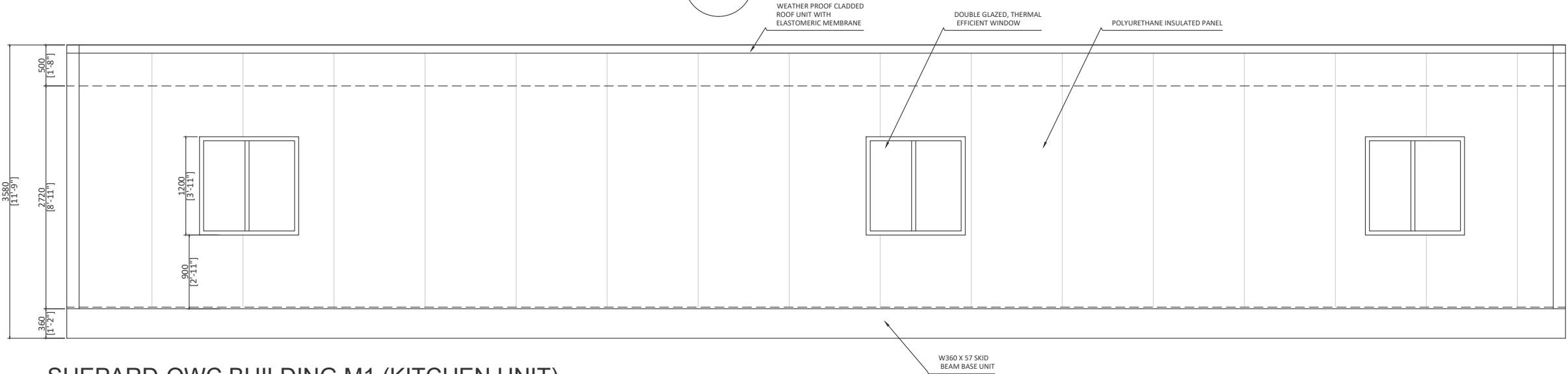
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SHEPARD-OWC BUILDING M1 (KITCHEN UNIT)

PROPOSED
FRONT ELEVATION
SCALE: 1: 60



SHEPARD-OWC BUILDING M1 (KITCHEN UNIT)

PROPOSED
REAR ELEVATION
SCALE: 1: 60

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PROPOSED NIU TRAILER UNITS
6685 114 AVE. SE, CALGARY, ALBERTA
THE CITY OF CALGARY

DRAWING TITLE :
ELEVATIONS
KITCHEN UNIT

DRAWN BY:
LJMA

CHECKED BY:
LCA

SCALE:
As shown

DATE:
SEP. 28, 2026

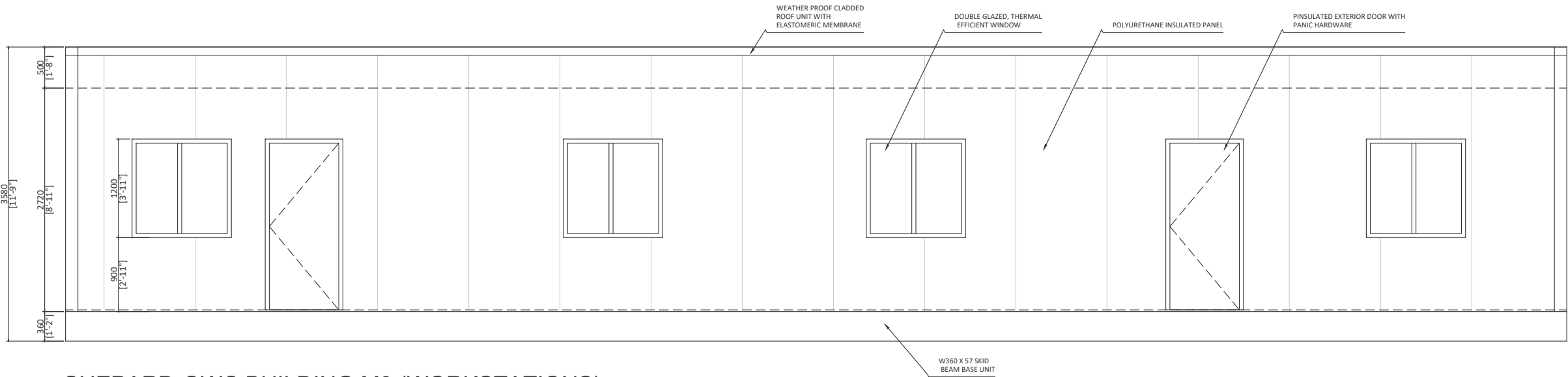
PROJECT NO.:

DRAWING NO.

A7

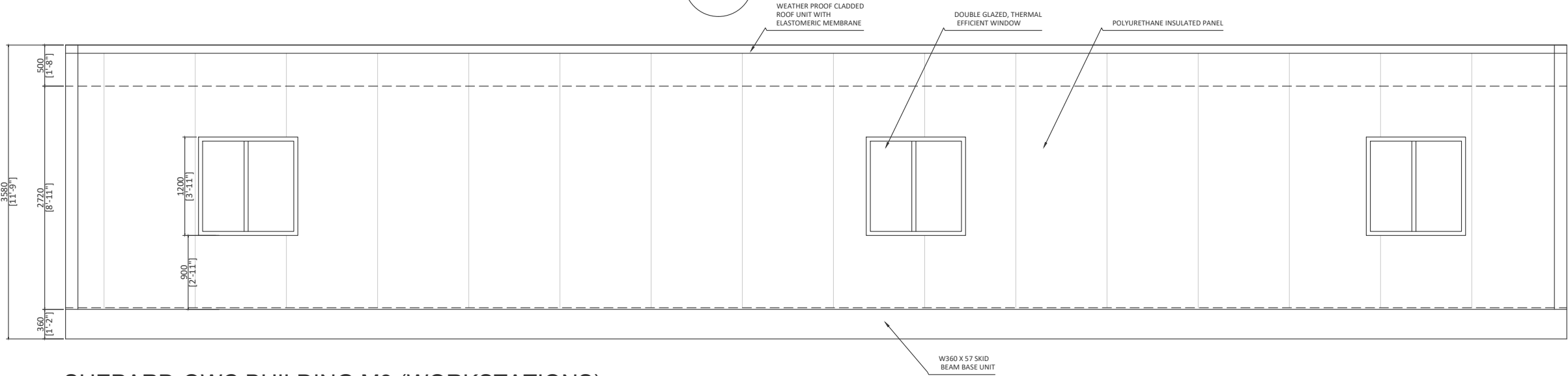
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SHEPARD-OWC BUILDING M3 (WORKSTATIONS)

PROPOSED
FRONT ELEVATION
SCALE: 1: 60



SHEPARD-OWC BUILDING M3 (WORKSTATIONS)

PROPOSED
REAR ELEVATION
SCALE: 1: 60

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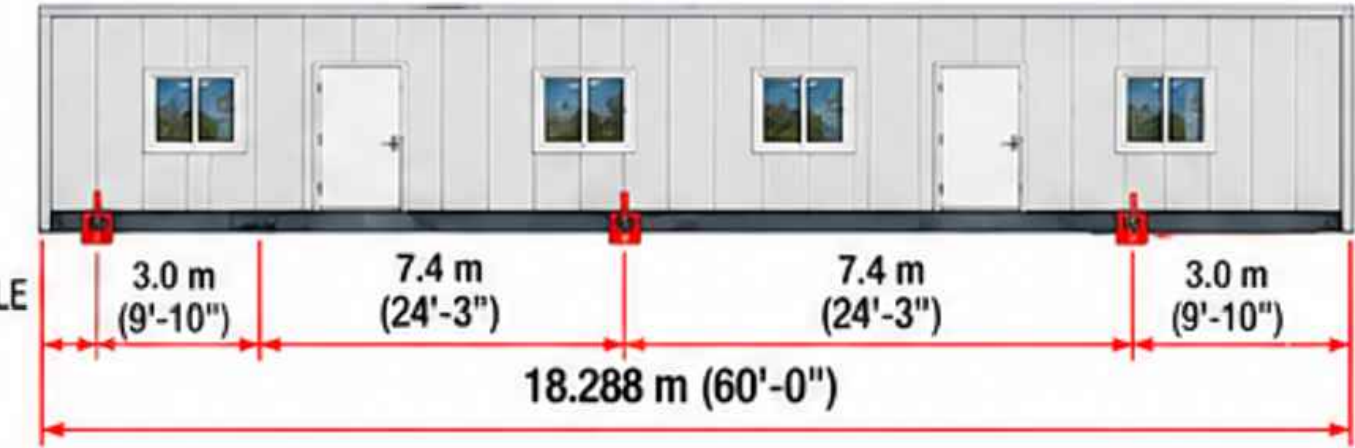
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ELEVATIONS
WORKSTATION

DRAWN BY: LJMA	DRAWING NO. A8 REV. NO. :
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DATE: SEP. 28, 2026	

PROJECT NO.:



LIFTING LUG LOCATION ELEVATION (SIDE)



- NOTE:**
- Lifting lugs are attached to the steel perimeter skid, not to the roof or wall panels.
 - Spreader beam to be used to keep slings outside the building envelope.
 - Lifting lug size, plate thickness, stiffeners, welds and skid sections to be engineered based on actual module weight and lifting requirements.

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6685 114 AVE. SE, CALGARY, ALBERTA
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DRAWING TITLE :
LIFTING LUG
SKID MOUNTED TRAILER

DRAWN BY: LJMA	DRAWING NO. A9 REV. NO. :
CHECKED BY: LCA	
SCALE: As shown	
DATE: SEP. 28, 2026	

PROJECT NO.:

NIU TRAILER • FRAMING & WALL SECTION

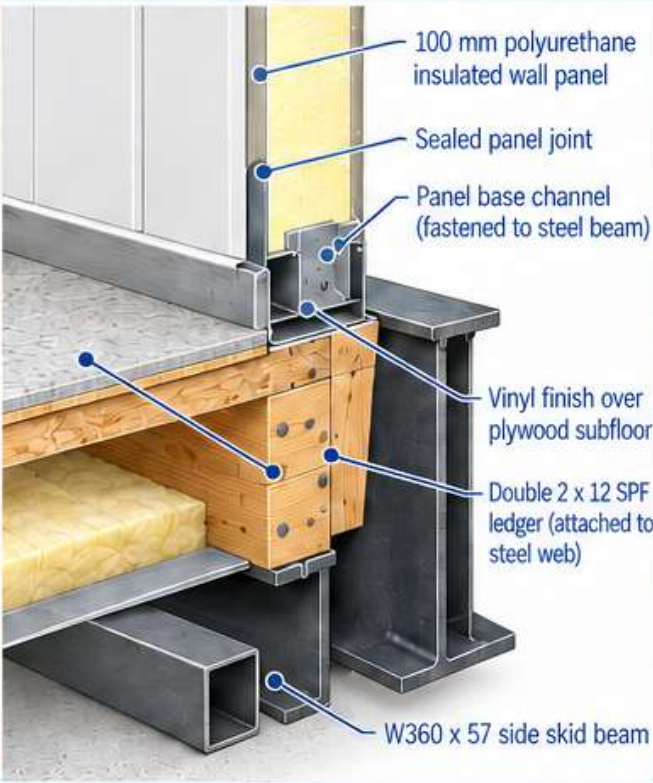


CONCEPTUAL SECTION • NOT TO SCALE

WALL PANEL



WALL / FLOOR JUNCTION



THE GENERAL CONTRACTOR SHALL CHECK, VERIFY DIMENSIONS ON SITE AND REPORT ERRORS AND OMISSIONS. DRAWINGS MUST NOT BE SCALED. DRAWINGS ARE DIAGRAMMATIC CONCEPTS OF THE DESIGN. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CONSISTENCY WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.

NO	DATE	ISSUE
1	2026.09.28	

DESIGN

ENGINEERING SHALL NOT BE RESPONSIBLE FOR ANY ACT OF OMISSION BY THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSON PERFORMING THE STRUCTURAL WORKS OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORKS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, MATERIALS INSTALLATION GUIDELINES, AND SPECIFICATIONS.

ALL DRAWINGS AND RELATED DOCUMENTS SHALL NOT BE REPRODUCED IN WHOLE OR IN A PART WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

ALL DISCREPANCIES AND INTERFERENCES TO BE REPORTED TO THE ENGINEER.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE, NATIONAL BUILDING CODE, AND REGULATORY PROVISIONS OF THE TOWNSHIP WHERE THE BUILDING IS LOCATED.

DO NOT SCALE DRAWINGS.



PROJECT TITLE:

PROPOSED NIU TRAILER UNITS
6685 114 AVE. SE, CALGARY, ALBERTA
THE CITY OF CALGARY

DRAWING TITLE :

FRAMING AND WALL SECTION

DRAWN BY: LJMA	DRAWING NO.
CHECKED BY: LCA	A10
SCALE: As shown	REV. NO. :
DATE: SEP. 28, 2026	
PROJECT NO.:	

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