

PROJECT INFORMATION:

MUNCIPAL ADDRESS:

7025 CALIFORNIA BOULEVARD NE,
CALGARY, ALBERTA

LEGAL DESCRIPTION:

BLOCK: 13
LOT: 1
PLAN: 901 2445

LOT AREA:

5830.67 SQ FT

EXISTING HOUSE: 1542.58 SQ FT
PROPOSED GARAGE: 744 SQ FT

TOTAL: 2286.58 SQ FT

PARCEL COVERAGE: 39.22 %

ZONING INFORMATION:

PROPOSED DEVELOPMENT : Backyard Suite
LAND USE DISTRICT : R-CG - Residential - Grade-Oriented Infill
MAXIMUM ALLOWABLE COVERAGE : %

NOTES:

- Site information based on available municipal records and client-provided information.
- Contractor to verify all site conditions prior to construction.
- This site plan is prepared for permit application purposes only.
- It is not a legal survey.

PROJECT DESCRIPTION:

PROPOSED NEW 31'0" x 24' DETACHED NON-HEATED GARAGE ON SLAB-ON-GRADE

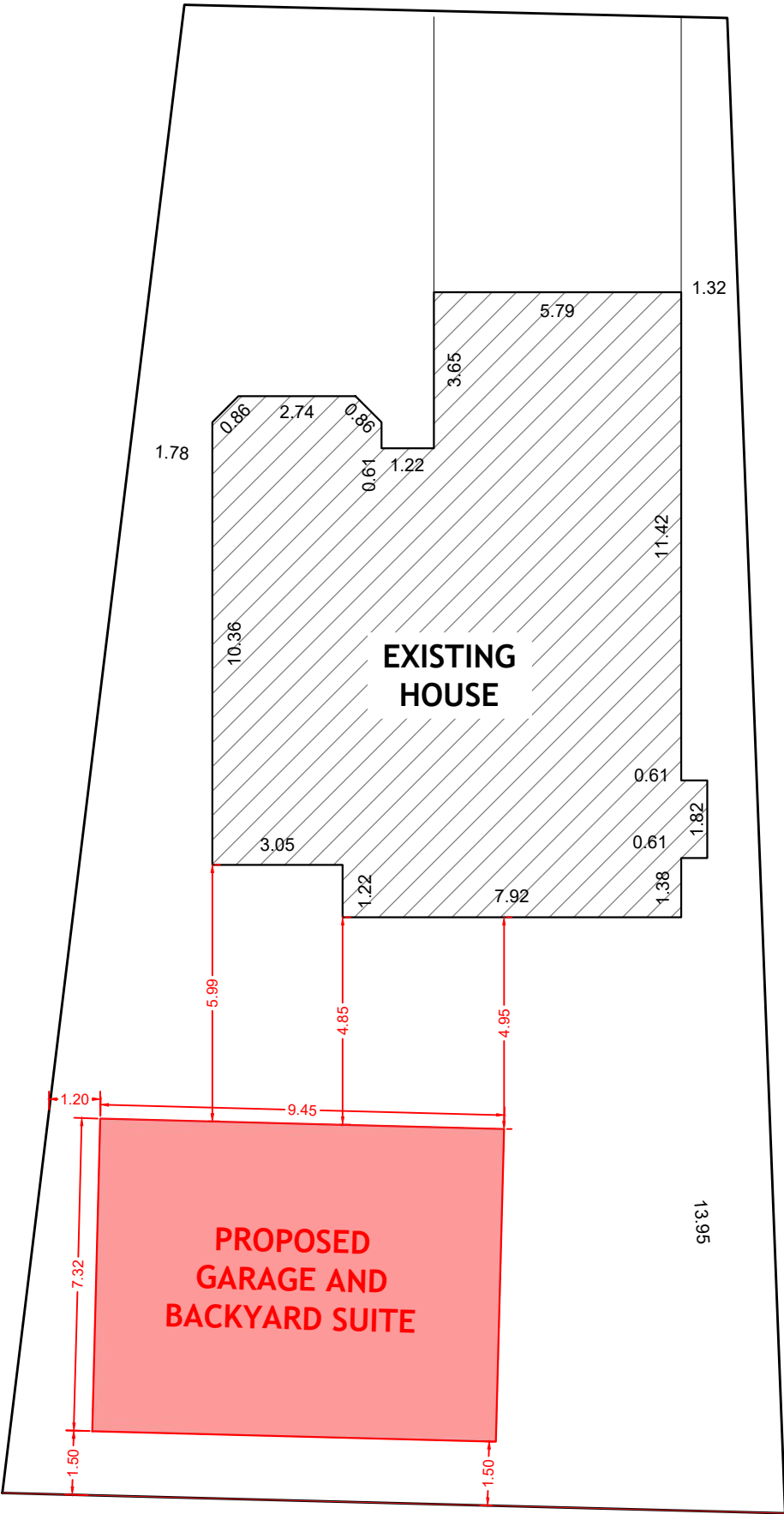
LEGEND:

- PLOT BOUNDARY
- EXISTING BUILDING
- DECK
- GARAGE
- DRIVEWAY

DRAWING INDEX:

1. SITE PLAN
2. ASSEMBLIES AND DETAILS
3. FLOOR PLAN AND SECTIONS
4. ELEVATIONS

CALIFORNIA BOULEVARD NE



LANE

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DATE	REV.	ISSUE
19/08/26	0	



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PROPOSED BACKYARD SUITE

PROJECT NO: J-

SITE PLAN

7025 CALIFORNIA BOULEVARD NE,
CALGARY, ALBERTA

DRAWN BY : KC
CHECKED BY : SP

CERTIFIED PROFESSIONAL'S SEAL &
SIGNATURE (AS REQUIRED)

DRAWING IN PROGRESS



DATE	REV.	ISSUE
22/06/2026	0	ISSUED FOR DP



PROPOSED
BACKYARD SUITE

PROJECT NO: J-

ASSEMBLIES & DETAILS

7025 CALIFORNIA BOULEVARD NE
CALGARY AB

DRAWN BY : KC

CHECKED BY : SP

CERTIFIED PROFESSIONAL'S SEAL &
SIGNATURE (AS REQUIRED)

ISSUED FOR DP
NOT FOR CONSTRUCTION

FLOOR CONSTRUCTION (FLOOR BETWEEN SUITE AND GARAGE)		
TAG	VISUAL	FLOOR TYPE MATERIALS
F4		FINISHED FLOORING 23/32" OSB TONGUE & GROOVE SUBFLOOR WOOD OR TJI JOISTS 16" OR 19.2" O.C. FULL-DEPTH MINERAL WOOL BATT INSULATION RESILIENT CHANNELS ON GARAGE SIDE 2 x 5/8" TYPE 'X' GYPSUM BOARD (GARAGE SIDE)

THERMAL CHARACTERISTICS TABLE
F4 FLOOR ASSEMBLY – EFFECTIVE INSULATION VALUE (RSI)

ASSEMBLY DESCRIPTION	MM	RSI
INTERIOR AIR FILM (CEILING SIDE - GARAGE)	-	0.12
5/8" TYPE 'X' GWB (LAYER 1 - GARAGE SIDE)	15.9	0.10
5/8" TYPE 'X' GWB (LAYER 2 - GARAGE SIDE)	15.9	0.10
RESILIENT METAL CHANNELS @ 12" O.C. (GARAGE SIDE)	-	-
WOOD / TJI JOISTS (FRAMING PATH = 15%)	241	RSI F = 0.85
MINERAL WOOL INSULATION (FULL DEPTH, ≈85% PATH)	241	RSI C = 6.25
23/32" SUBFLOOR (OSB T&G)	18.3	0.11
FINISHED FLOORING & UNDERLAY	-	0.02
INTERIOR AIR FILM (FLOOR SIDE - HOUSE)	-	0.17
RSI_PARALLEL CALCULATION = ((0.85×15) + (6.25×85)) / 100		5.44
TOTAL EFFECTIVE INSULATION VALUE		6.06

FLOOR TYPE	STRUCTURAL SIZE	FIRE RATING / REF.	STC RATING / REF.	NOTES
F4	9 ½" TJI JOISTS	1 HR / (CAN/ULC-S101)	62 / TYPICAL TESTED RC + DOUBLE TYPE 'X' + BATT NBC 2019 (AE) 9.10.3.1	

Note: Fire resistance rating is provided entirely by the garage-side membrane (RC + 2 x 5/8" Type 'X'). No spray foam permitted.

ROOF / CEILING – VAULTED (CATHEDRAL), NON-VENTED
ENERGY ASSEMBLY DETAIL – CLIMATE ZONE 7A
THERMAL CHARACTERISTICS TABLE – NON-VENTED VAULTED CEILING

ASSEMBLY DESCRIPTION	MM	RSI
EXTERIOR AIR FILM	—	0.03
ROOFING (ASPHALT SHINGLES)	—	—
ROOFING UNDERLAY	—	—
7/16" OSB ROOF SHEATHING	11	0.10
WOOD PURLINS (THERMAL BREAK)	38	—
WOOD RAFTERS – FRAMING PATH (15%)	286	RSI_F = 1.90
MINERAL WOOL BATT INSULATION – CAVITY PATH (85%)	286	RSI_C = 7.04
6 MIL POLYETHYLENE VAPOUR BARRIER	—	—
1/2" GYPSUM BOARD (INTERIOR)	12.7	0.08
INTERIOR AIR FILM	—	0.12

MATERIAL TYPE

ROOF / CEILING ASSEMBLY
ASPHALT SHINGLES
ROOFING UNDERLAY
7/16" OSB ROOF SHEATHING
38 MM × 38 MM WOOD PURLINS
2×10 OR 2×12 WOOD RAFTERS @ 24" O.C. (SIZE AS PER STRUCTURAL)
FULL-DEPTH MINERAL WOOL BATT INSULATION TIGHTLY FIT BETWEEN RAFTERS (NO VENT SPACE)
6 MIL POLYETHYLENE VAPOUR BARRIER ON WARM SIDE, CONTINUOUS AND SEALED
1/2" OR 5/8" GYPSUM BOARD INTERIOR CEILING FINISH
INTERIOR AIR BARRIER SEALED AT ALL JOINTS AND PENETRATIONS

RSI CALCULATION – PARALLEL PATH

$RSI_PARALLEL = 100 / ((15 / 1.90) + (85 / 7.04))$
 $RSI_PARALLEL = 4.99$

TOTAL EFFECTIVE THERMAL RESISTANCE

$RSI_TOTAL = 4.99 + 0.03 + 0.10 + 0.08 + 0.12$

TOTAL EFFECTIVE RSI = 5.32

FLOOR TYPE	STRUCTURAL SIZE	FIRE RATING / REF.	STC RATING / REF.	NOTES
Rb	ENGINEERED VAULTED ROOF TRUSSES @ 24" O.C.	1 HR – CAN/ULC-S101 (INTERIOR GYPSUM MEMBRANE)	-	VAULTED (CATHEDRAL) CEILING – NON-VENTED

CONSTRUCTION LEGEND		
EXTERIOR WALL TYPES		
TAG	VISUAL	WALL TYPE MATERIALS
W3		SIDING AIR BARRIER / BUILDING PAPER 3/8" OSB SHEATHING 2X6 WOOD STUDS @ 24" O.C. WITH FULL-DEPTH MINERAL WOOL BATT INSULATION 6 MIL (0.15 MM) POLY VAPOUR BARRIER 5/8" TYPE 'X' GYPSUM BOARD (INTERIOR FACE) ASSEMBLY MEETS W3 1-HR EXTERIOR WALL REQUIREMENTS PER BCBC 9.10.8.3

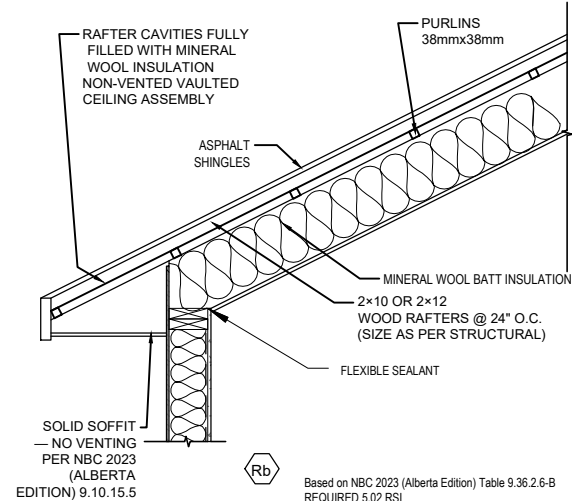
WALL TYPE	STRUCTURAL SIZE	FIRE RATING / REF.	STC RATING / REF.	NOTES
W3	2×6 WOOD STUDS @ 24" O.C.	FRR = 1 hour as required by NBC Table 9.10.3.1-A.	Not Required (Exterior Wall – NBC 9.11)	Tested Assembly: ULC W419

P1 - NON-RATED INTERIOR PARTITION WALL		
TAG	VISUAL	WALL TYPE MATERIALS
P1		– 1/2" GWB FINISH EACH SIDE – 2×4 WOOD STUD FRAMING @ 16" O.C.

WALL TYPE	STRUCTURAL SIZE	FIRE RATING / REF.	STC RATING / REF.	NOTES
P1	2×4 WOOD STUDS @ 16" O.C.	Not Rated (Non-rated Interior Partition)	Not Required (Interior Partition – NBC 9.11)	

P1a – 1 HR FIRE RATED MECHANICAL ROOM WALL		
TAG	VISUAL	WALL TYPE MATERIALS
P1a		2×6 STUDS @ 16" O.C. FULL-DEPTH MINERAL WOOL BATT (R22, 5 1/2" / 140 MM THICK, FOR 2×6 STUDS) 5/8" TYPE 'X' GWB BOTH SIDES RESILIENT CHANNELS ON SUITE SIDE

WALL TYPE	STRUCTURAL SIZE	FIRE RATING / REF.	STC RATING / REF.	NOTES
P1a	2×6 STUDS @ 16" O.C.	1 HR FIRE RATED (PER ULC W301 ASSEMBLY)	STC 50+ (WITH R22 MINERAL WOOL AND 5/8" TYPE 'X' GWB BOTH SIDES WITH RESILIENT CHANNELS ON SUITE SIDE)	SEAL ALL JOINTS AND PENETRATIONS WITH ACOUSTIC SEALANT. PROVIDES RSI ≈ 3.30 (COMPLIES; REQUIRED RSI = 2.81 FOR GARAGE SEPARATION).



GENERAL NOTES – NON-VENTED VAULTED ROOF

ROOF ASSEMBLY IS DESIGNED AS A NON-VENTED (UNVENTED) VAULTED CEILING.

SOFFIT VENTING IS NOT PERMITTED PER NBC 2023 (ALBERTA EDITION) 9.10.15.5.

RAFTER CAVITIES ARE FULLY FILLED WITH MINERAL WOOL INSULATION; NO VENTILATION AIR SPACE PROVIDED.

38 MM × 38 MM WOOD PURLINS PROVIDED TO SUPPORT ROOFING AND IMPROVE THERMAL PERFORMANCE.

VAPOUR BARRIER INSTALLED ON WARM SIDE AND SEALED TO ACT AS A CONTINUOUS AIR BARRIER.

ASSEMBLY COMPLIES WITH NBC 2023 (ALBERTA EDITION) TABLE 9.36.2.6-B.

REQUIRED THERMAL RESISTANCE: MIN. RSI 5.02.

PROVIDED TOTAL EFFECTIVE THERMAL RESISTANCE: RSI 5.32 (MINIMUM EXCEEDED).

THERMAL CHARACTERISTICS TABLE –
W3 EXTERIOR WALL ASSEMBLY

ASSEMBLY DESCRIPTION	MM	RSI
EXTERIOR AIR FILM	—	0.03
SIDING + VENTED CAVITY	—	0.17
BUILDING PAPER / AIR BARRIER	—	0.011
3/8" OSB SHEATHING	9.5	0.083
2X6 WOOD STUDS @ 24" O.C. (FRAMING PATH) % AREA OF FRAMING = 16%	140	RSI_F = 1.19
FULL-DEPTH MINERAL WOOL BATT (CAVITY PATH) % AREA OF CAVITY = 84%	140	RSI_C = 3.85
6 MIL (0.15 MM) POLY VAPOUR BARRIER	—	0.00
5/8" TYPE 'X' GYPSUM BOARD (INTERIOR FACE)	15.9	0.15
INTERIOR AIR FILM	—	0.12
RSI_PARALLEL = 100 / ((16 / 1.19) + (84 / 3.85))		2.84
TOTAL EFFECTIVE INSULATION VALUE		3.40 RSI

THERMAL CHARACTERISTICS TABLE –
P1 INTERIOR WALL ASSEMBLY

ASSEMBLY DESCRIPTION	MM	RSI
INTERIOR AIR FILM	—	0.12
1/2" GYPSUM WALL BOARD (SIDE 1)	12.7	0.08
2×4 WOOD STUD FRAMING @ 16" O.C. (FRAMING PATH – ABOUT 16%)	89	RSI_F = 0.80
AIR CAVITY (NO INSULATION – 84%)	89	RSI_C = 0.18
1/2" GYPSUM WALL BOARD (SIDE 2)	12.7	0.08
INTERIOR AIR FILM	—	0.12
RSI_parallel = 100 / ((16 / 0.80) + (84 / 0.18))		0.20
TOTAL EFFECTIVE INSULATION VALUE		RSI 0.20

THERMAL CHARACTERISTICS TABLE – P1A (REVISED 2×6 WALL ASSEMBLY)

ASSEMBLY DESCRIPTION	MM	RSI
INTERIOR AIR FILM	—	0.12
5/8" TYPE 'X' GWB (SIDE 1)	15.9	0.10
2×6 WOOD STUD FRAMING @ 16" O.C. (FRAMING PATH – 15%)	140	RSI_F = 1.25
MINERAL WOOL BATT INSULATION – R22 (CAVITY PATH – 85%, 5 ½" / 140 MM)	140	RSI_C = 3.87
5/8" TYPE 'X' GWB (SIDE 2)	15.9	0.10
INTERIOR AIR FILM	—	0.12
PARALLEL PATH CALCULATION RSI_PARALLEL = 100 / ((15 / 1.25) + (85 / 3.87))		2.86
TOTAL EFFECTIVE RSI =		3.30 (COMPLIES; REQUIRED = 2.81)

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ELEVATIONS

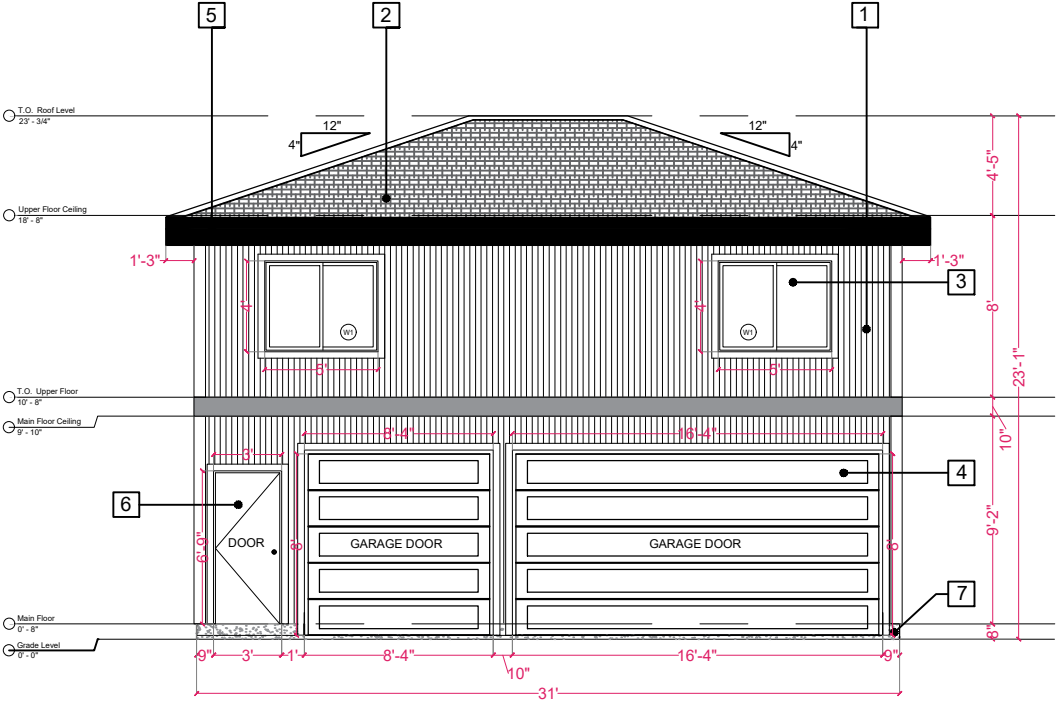
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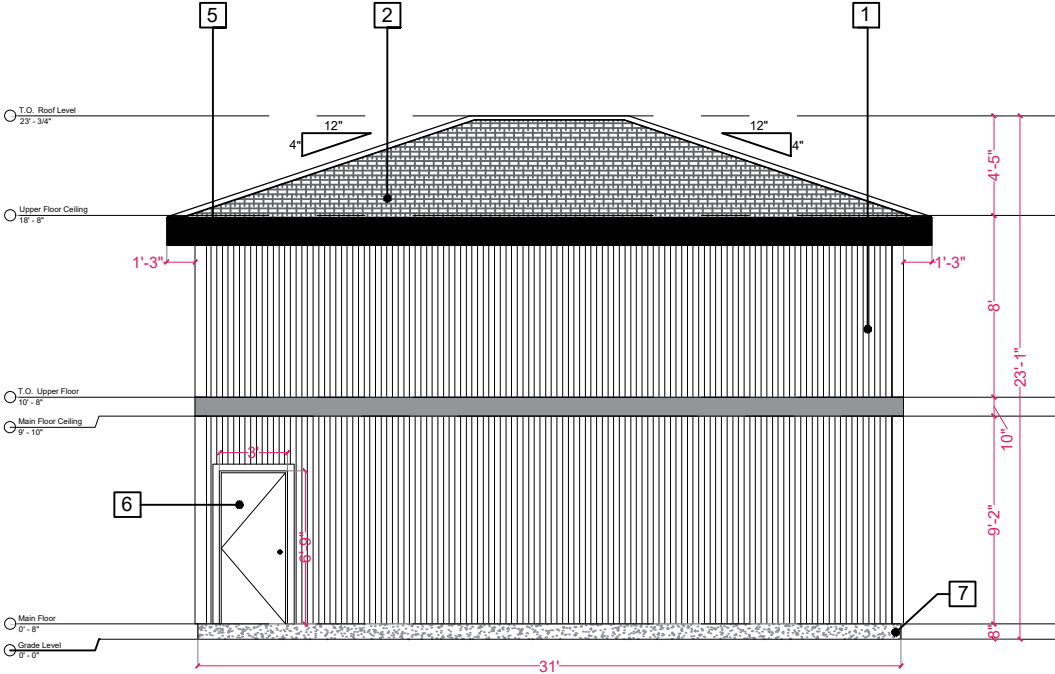
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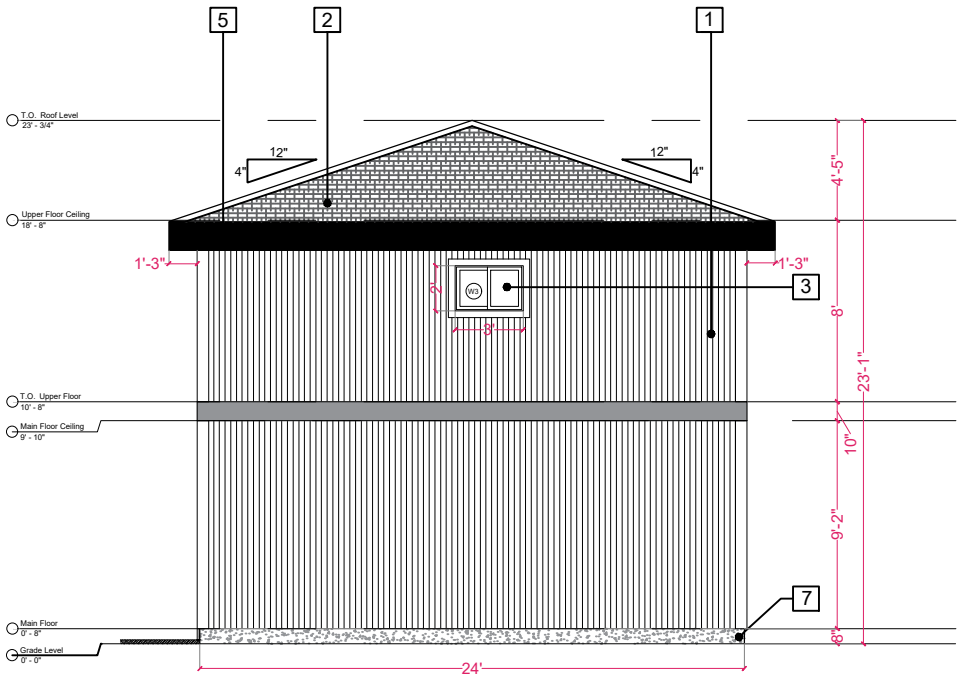
FRONT ELEVATION

1/4" = 1'-0"



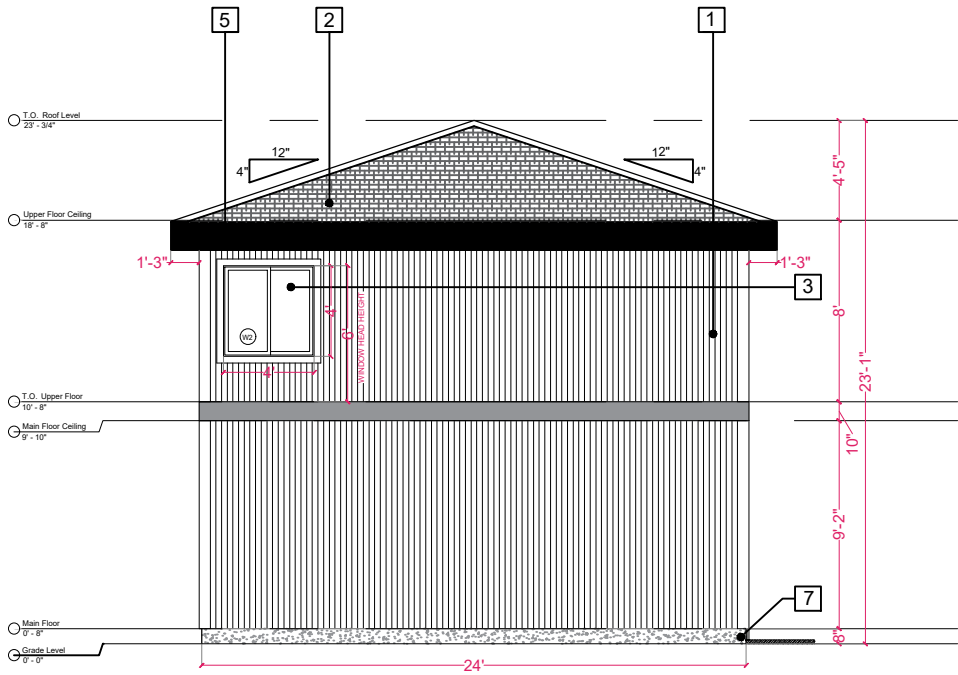
REAR ELEVATION

1/4" = 1'-0"



RIGHT ELEVATION

1/4" = 1'-0"



LEFT ELEVATION

1/4" = 1'-0"