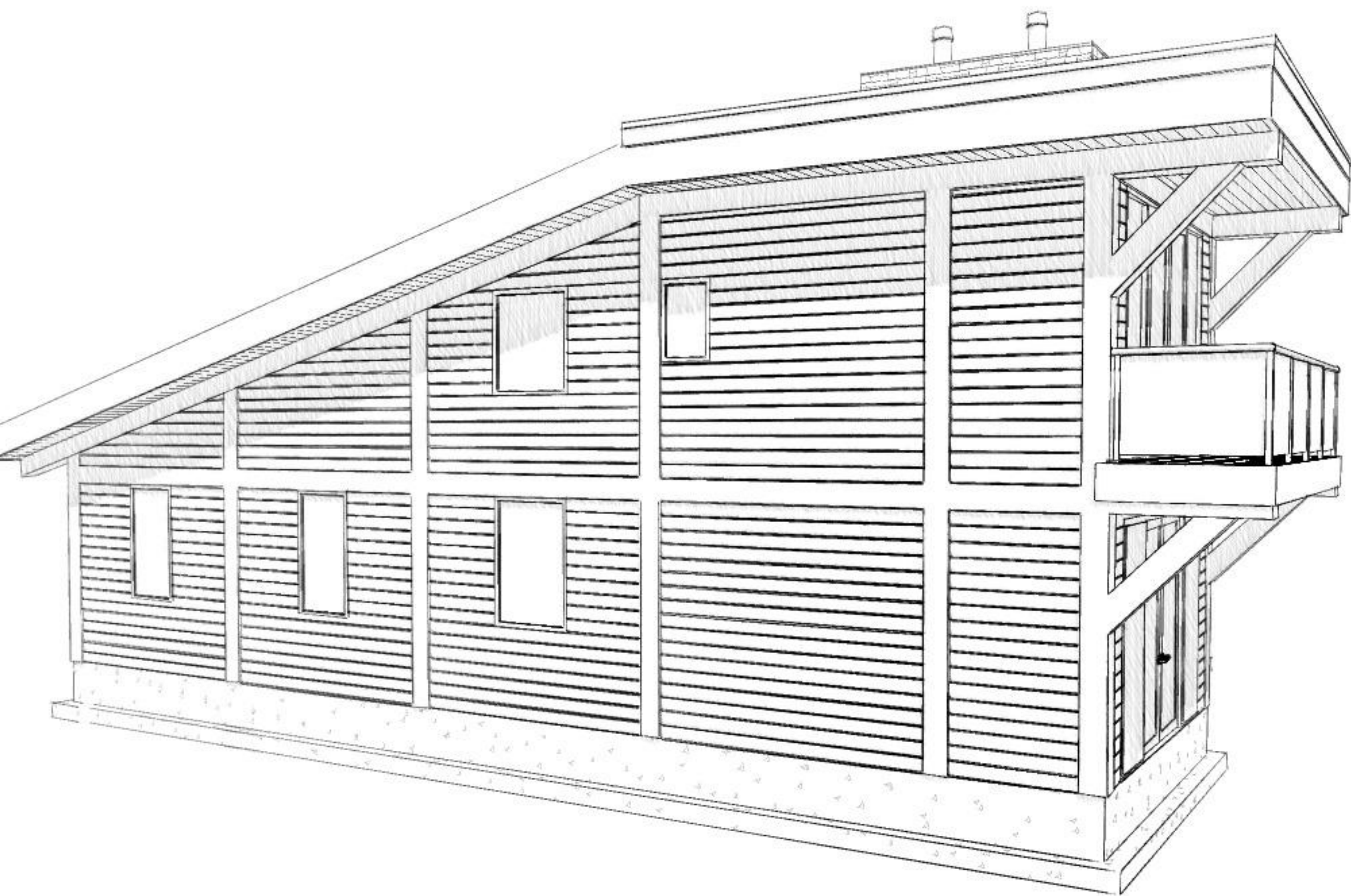


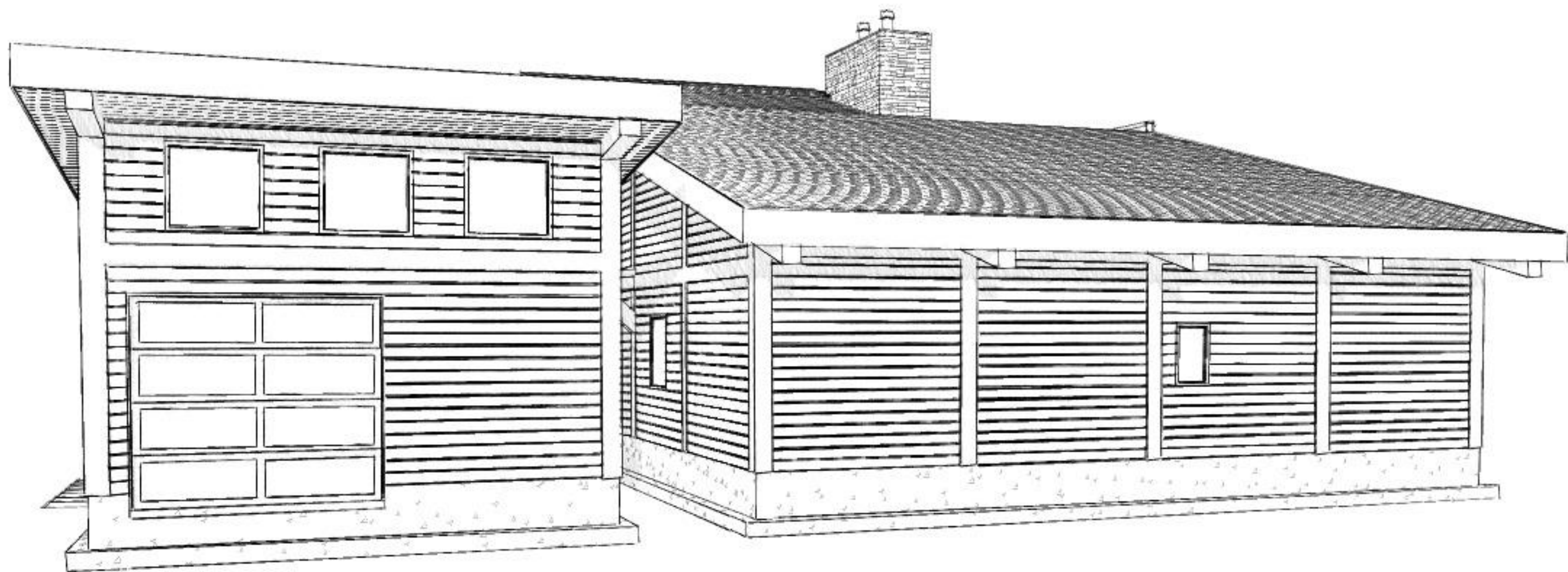
Robinson - Fintry House

PERMIT DRAWINGS TABLE OF CONTENTS

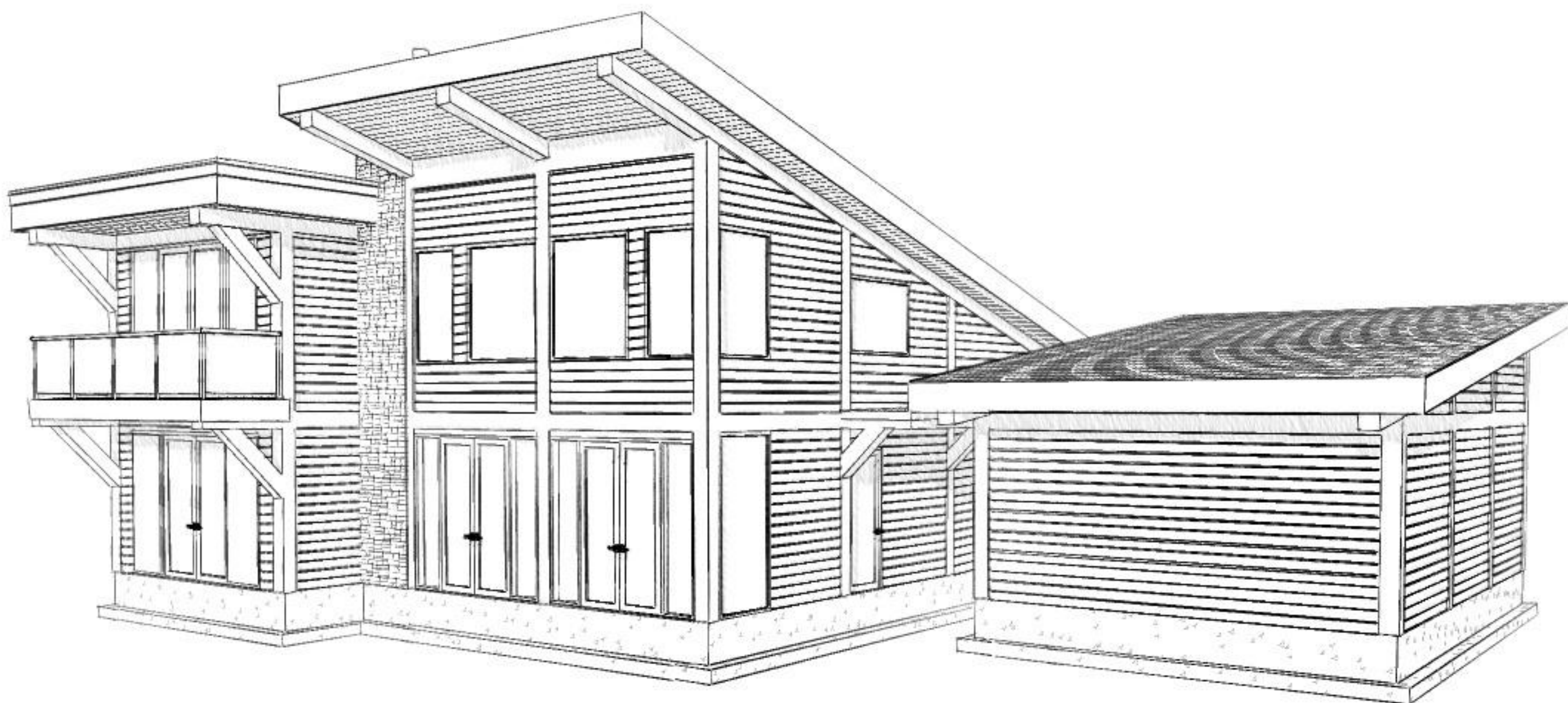
- 100 - SITE PLANS
 - 101 - Site Plan
- 200 - FLOOR PLANS
 - 201 - Foundation Plan
 - 202 - Main Floor Construction Plan
 - 203 - Upper Floor Construction Plan
 - 204 - Roof Plan
- 300 - SECTIONS
 - 301 - Sections A, B, Thermal Calculations
 - 302 - Sections C, D
 - 303 - Sections E, F
- 400 - ELEVATIONS
 - 401 - Elevations, Front & Rear
 - 402 - Elevations, Right & Left
 - 403 - Limiting Distance Calculation



Side Perspective



Front Perspective



Rear Perspective



DATE ISSUED	DESCRIPTION
2020-03-13	PERMIT DRAWINGS

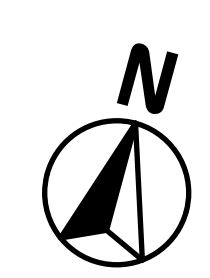
Cover Sheet

Robinson - Fintry House
PLAN KAP15329, LOT 86, DL 686 ODYD
7379 Fintry Delta Road Fintry BC
R1 Zoning

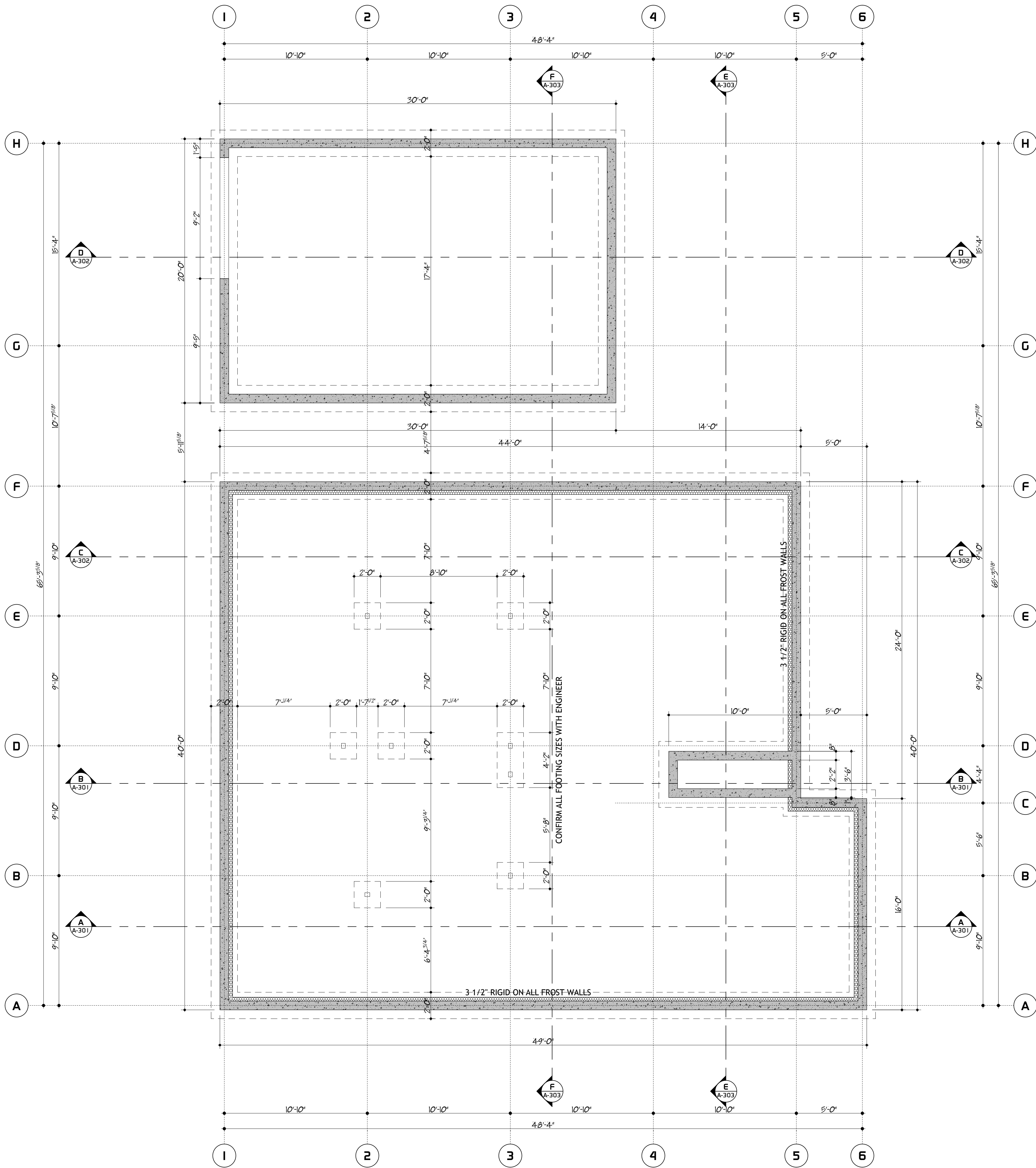
SCALE

SHEET No

A-001



<u>SITE COVERAGE: R1 Zoning</u>	
PROPERTY AREA	= 8,999 ft ²
HOUSE AREA	= 1,840 ft ²
GARAGE AREA	= 600 ft ²
DECK	= 72 ft ²
TOTAL AREA	= 2,512 ft ²
SITE COVERAGE	= 27.9%
MAXIMUM ALLOWABLE	= 35%
<u>DRIVEWAY / PARKING AREA = 879 ft²</u>	
TOTAL AREA	= 3,391 ft ²
SITE COVERAGE	= 37.7%
MAXIMUM ALLOWABLE	= 50%



CONCRETE VOLUMES:	
FOOTINGS	= 11.52 M ³
FOUDATION WALLS	= 23.17 M ³
HOUSE SLAB	= 16.16 M ³
GARAGE SLAB	= 4.06 M ³

REFER TO ENGINEER'S DRAWINGS
FOR FOUNDATION WALL THICKNESS
FOOTING DIMENSIONS
AND REINFORCEMENT SPECIFICATIONS



DATE ISSUED	DESCRIPTION
2020-03-13	PERMIT DRAWINGS

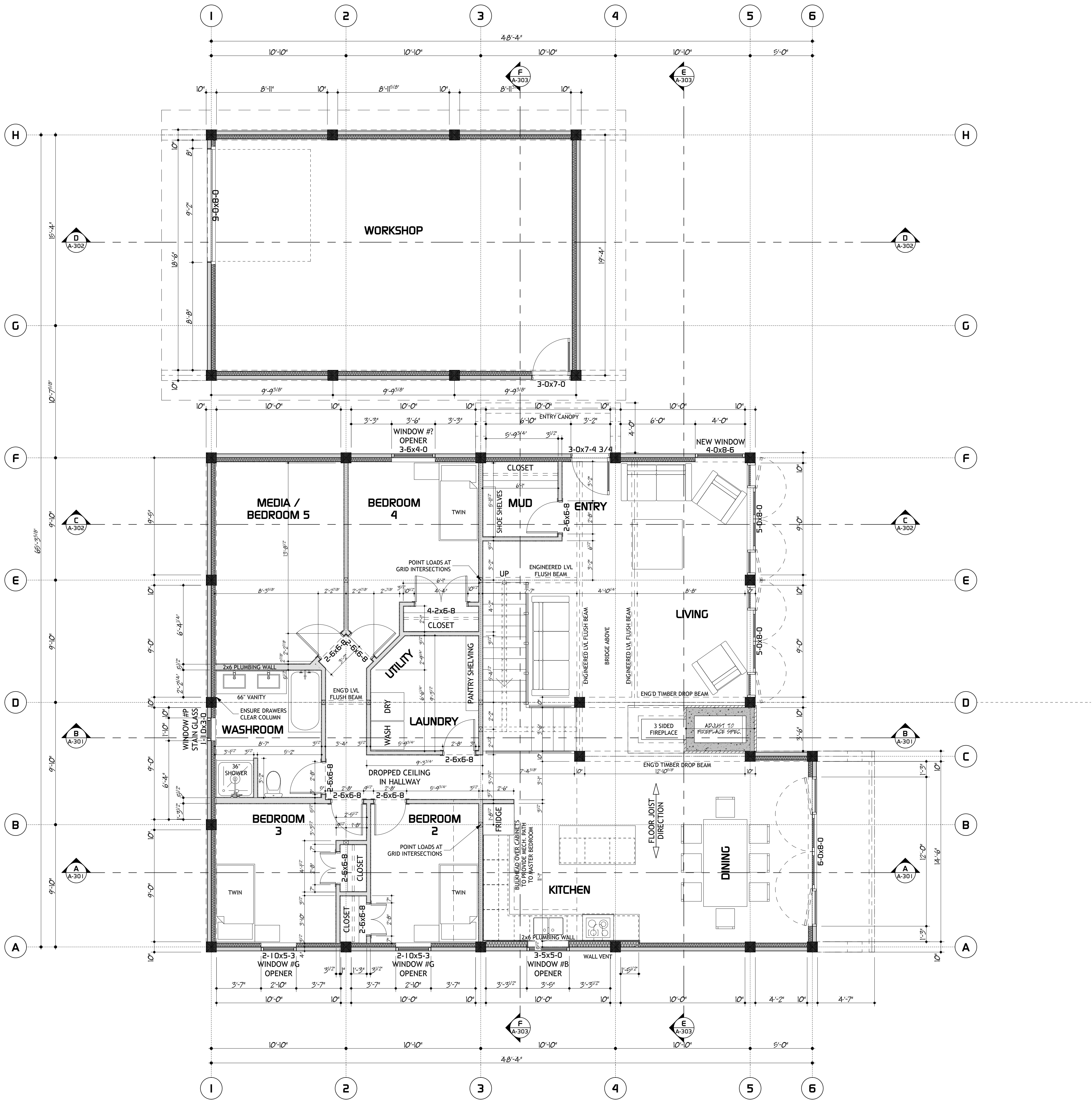
Foundation Plan

Robinson - Fintry House
PLAN KAP15329, LOT 86, DL 686 ODYD
7379 Fintry Delta Road Fintry BC
R1 Zoning

SCALE
1/4" = 1'-0"

SHEET No

A-201



AREA MEASUREMENTS:
MAIN FLOOR AREA = 1,840 ft²
GARAGE AREA = 600 ft²



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2020-03-13	PERMIT DRAWINGS

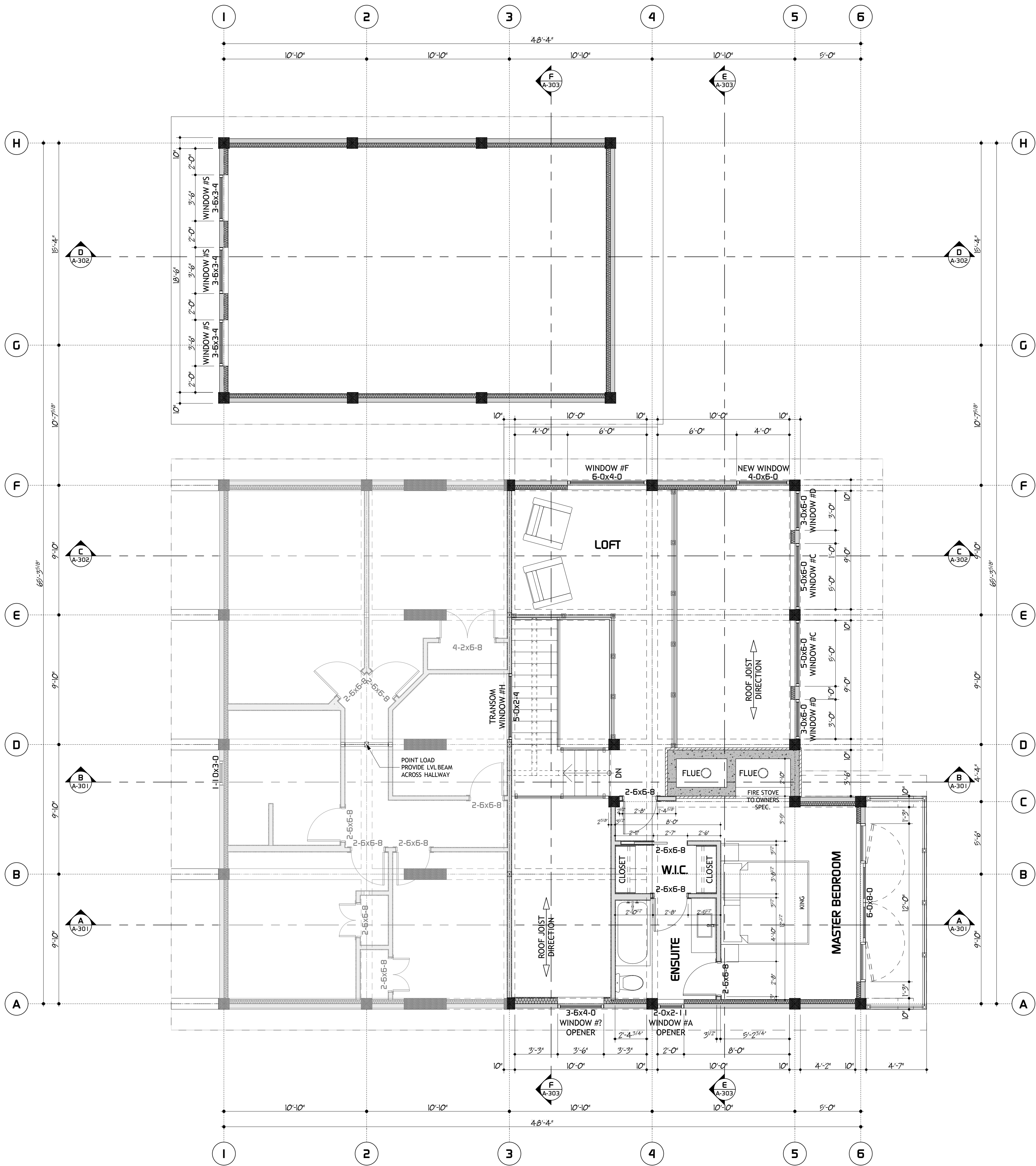
Main Floor Construction
Plan

Robinson - Fintry House
PLAN KAP15329, LOT 86, DL 686 ODYD
7379 Fintry Delta Road Fintry BC
R1 Zoning

SCALE
1/4" = 1'-0"

SHEET No

A-202



AREA MEASUREMENTS:	
UPPER FLOOR AREA	= 461 ft ²
DECK AREA	= 76 ft ²



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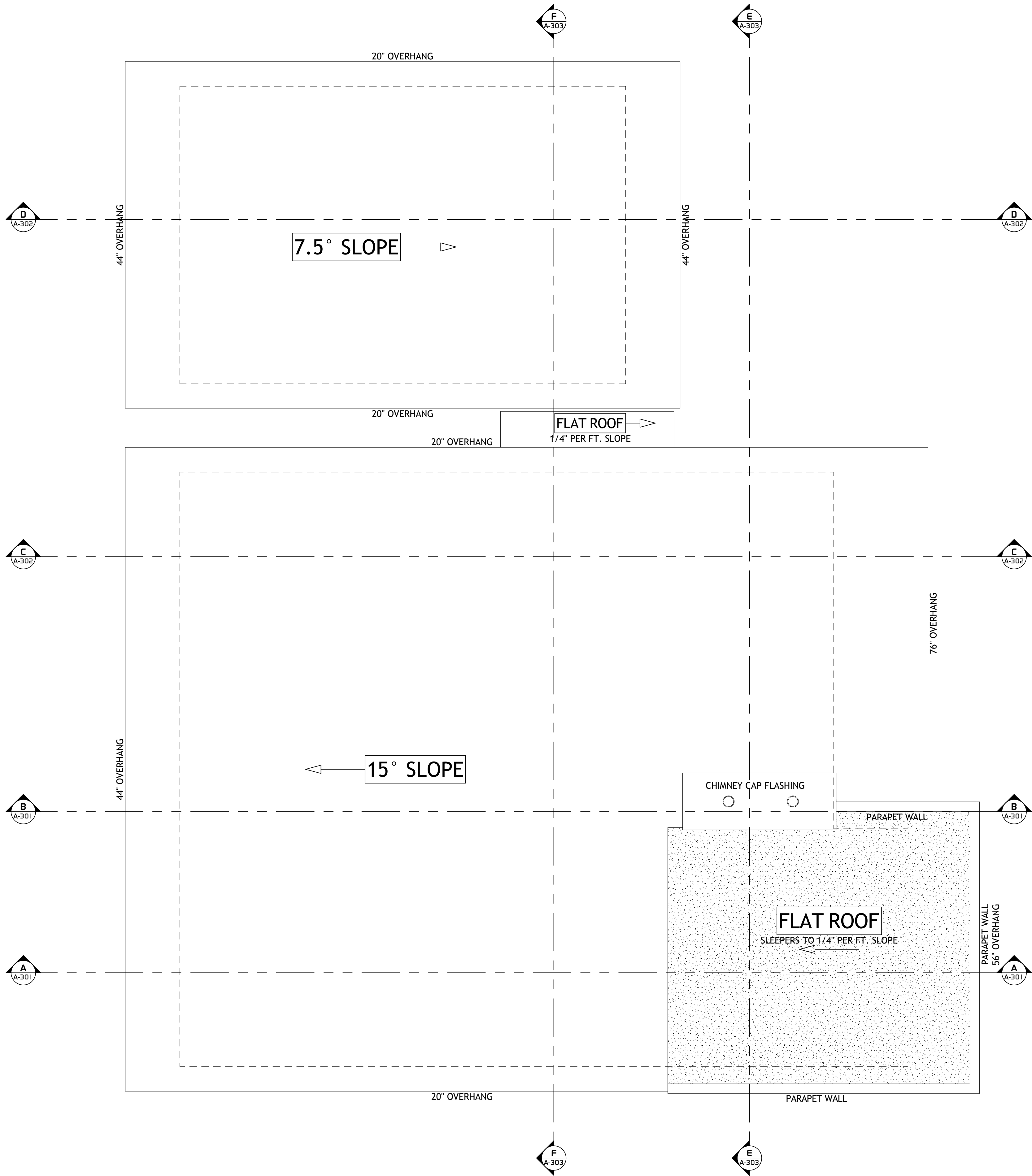
Upper Floor
Construction Plan

Robinson - Fintry House
PLAN KAP15329, LOT 86, DL 686 ODYD
7379 Fintry Delta Road Fintry BC
R1 Zoning

SCALE
1/4" = 1'-0"

SHEET No

A-203



AREA MEASUREMENTS:	
SLOPED ROOF AREA	= 2,785 ft ²
FLAT ROOF AREA	= 589 ft ²
ENTRY ROOF AREA	= 48 ft ²
FASCIA LENGTH (INCLUDING GARAGE)	= 376 ft



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Roof Plan

Robinson - Fintry House
PLAN KAP15329, LOT 86, DL 686 ODYD
7379 Fintry Delta Road Fintry BC
R1 Zoning

SCALE
1/4" = 1'-0"

SHEET No

A-204



DESCRIPTION
PERMIT DRAWINGS

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Sections - 1

Robinson - Fintry House
PLAN KAP15329, LOT 86, DL 686 ODYD
7379 Fintry Delta Road Fintry BC
R1 Zoning

SCALE
1/4" = 1'-0"

SHEET No

A-301

Bulletin
BCBC Energy Efficiency Requirements for an SFD
NUMBER 14-04

Typical Wall Assembly - 4"x6" Panabode & 2x4 (W1)			
Material		RSI	R
Outside air film	Wind 6.7m/s (winter)	0.03	0.17
Cladding	4" Panabode Western Red Cedar (.0102 x 102mm)	1.04	5.911
Sheathing membrane	2 Layers 30 min. building paper	0.011	0.062
Stud wall	2x4 @ 24" o.c.		
Insulation	R14 Batt insulation	RSI wall = 1.70	9.66
Vapour barrier	6 Mil polyethylene	0.00	0.00
Gypsum	12mm (RSI 0.0061 x 12mm)	0.073	0.415
Interior air film	Heat flow horizontal	0.12	0.68
	Total Effective RSI/R value of entire assembly	2.974	= 16.90
With HRV	Min. Required Effective RSI/R value (Zone 5):	2.97	16.86

Typical Wall Assembly - Siding (W2)			
Material		RSI	R
Outside air film	Wind 6.7m/s (winter)	0.03	0.17
Cladding	8mm Fiberboard siding (RSI 0.003 x 8mm)	0.026	0.15
Sheathing membrane	2 Layers 30 min. building paper	0.011	0.062
Sheathing	11mm OSB (RSI 0.0098 x 11mm)	0.108	0.612
Stud wall	2x6 @ 24" o.c.		
Insulation	R22 Batt insulation	RSI wall = 2.668	15.16
Vapour barrier	6 Mil polyethylene	0.00	0.00
Gypsum	12mm (RSI 0.0061 x 12mm)	0.073	0.415
Interior air film	Heat flow horizontal	0.12	0.68
	Total Effective RSI/R value of entire assembly	3.036	= 17.25
With HRV	Min. Required Effective RSI/R value (Zone 5):	2.97	16.86

Typical Wall Separating Conditioned Space (W4)			
Material		RSI	R
Interior air film	Heat flow horizontal	0.12	0.68
Gypsum Garage side	12mm (RSI 0.0061 x 12mm)	0.073	0.415
Stud wall	2x6 @ 24" o.c.		
Insulation	R22 Batt insulation	RSI wall = 2.668	15.16
Vapour barrier	6 Mil polyethylene (Residential side)	0.00	0.00
Gypsum Resid. side	12mm (RSI 0.0061 x 12mm)	0.073	0.415
Interior air film	Heat flow horizontal	0.12	0.68
	Total Effective RSI/R value of entire assembly	3.054	= 17.35
With HRV	Min. Required Effective RSI/R value (Zone 5):	2.97	16.86

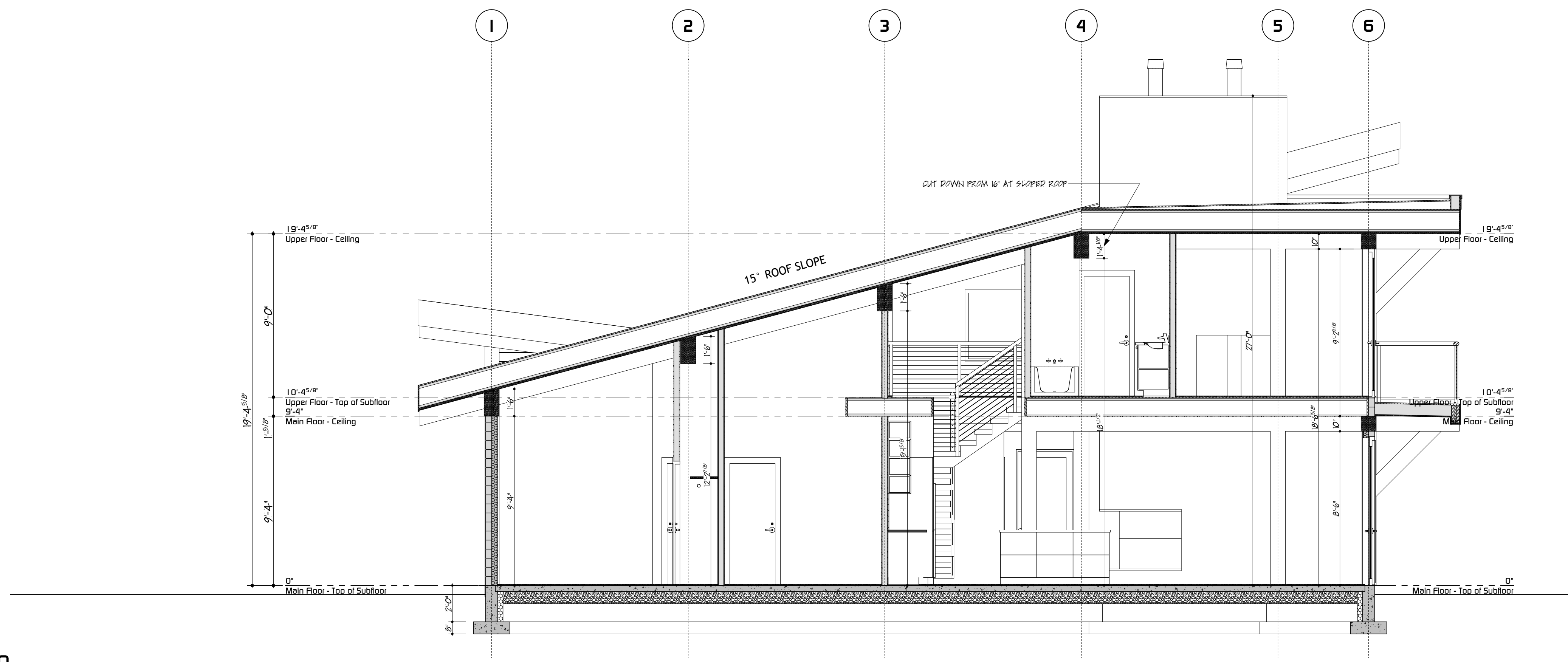
Typical Sloped Roof Assembly (R1)			
Material		RSI	R
Outside air film	Wind 6.7m/s (winter)	0.03	0.17
Roofing	Built-up	0.06	0.34
Sheathing membrane	Vapour retarder	0.00	0.00
Sheathing	19mm Plywood (RSI 0.0087 x 19mm)	0.165	0.937
Roof joists	11 7/8" Eng'd I-Joists @ 24" o.c.		
Insulation	R40 Batt insulation	RSI Flat Roof = 6.404	36.38
Vapour barrier	6 MIL Polyethylene	0.00	0.00
Gypsum	12 mm (RSI 0.0061 x 12mm)	0.073	0.415
Interior air film	Heat flow up	0.11	0.623
	Total Effective RSI/R value of entire assembly	6.842	= 38.87
	Min. Required Effective RSI/R value:	4.67	26.52

Total Effective RSI/R Value Calculations for Cavities:	
Effective RSI =	$\frac{100}{\frac{\% \text{ area f}}{\text{RSI frame}} + \frac{\% \text{ area c}}{\text{RSI cavity}}}$
	RSI = 5.681 R

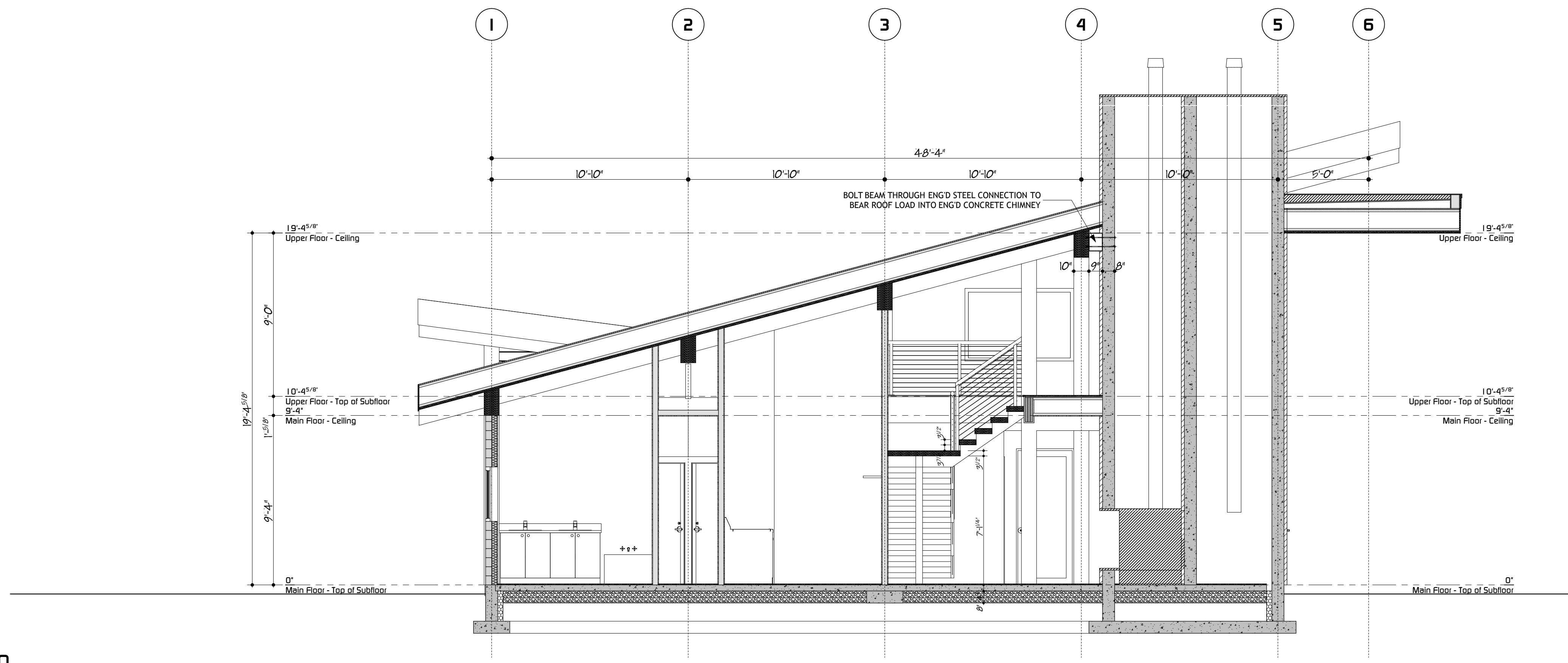
Effective RSI =	$\frac{100}{\frac{20}{0.76} + \frac{80}{2.46}}$
2x4 R14 Batt	
RSI wall =	1.700 (R 9.66)

Effective RSI =	$\frac{100}{\frac{20}{1.19} + \frac{80}{3.87}}$
2x6 R22 Batt	
RSI wall =	2.668 (R 15.16)

Effective RSI =	$\frac{100}{\frac{6}{2.65} + \frac{94}{7.04}}$
11 7/8" TJI's @ 24"	
R40	
RSI flat roof =	6.404 (R 36.38)

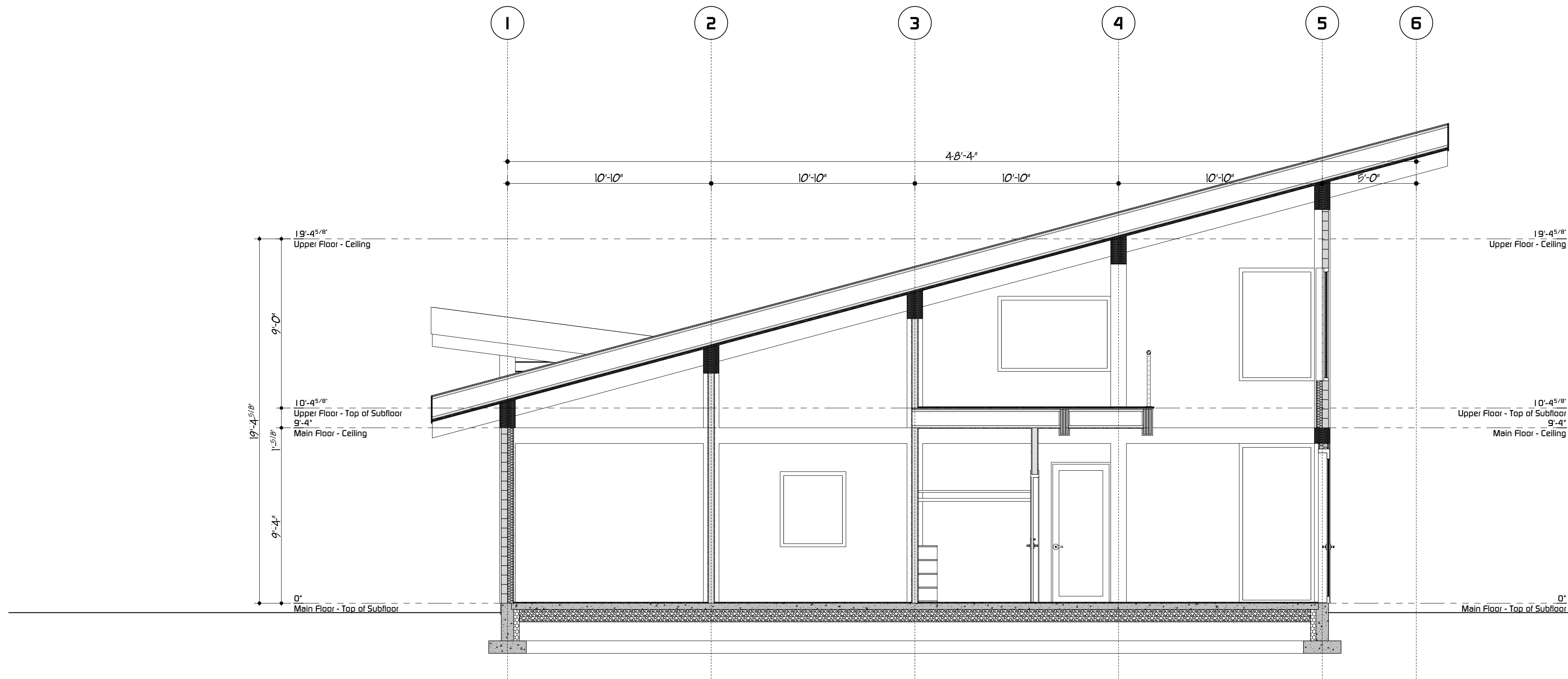


A Section
SCALE: 1/4" = 1'-0"

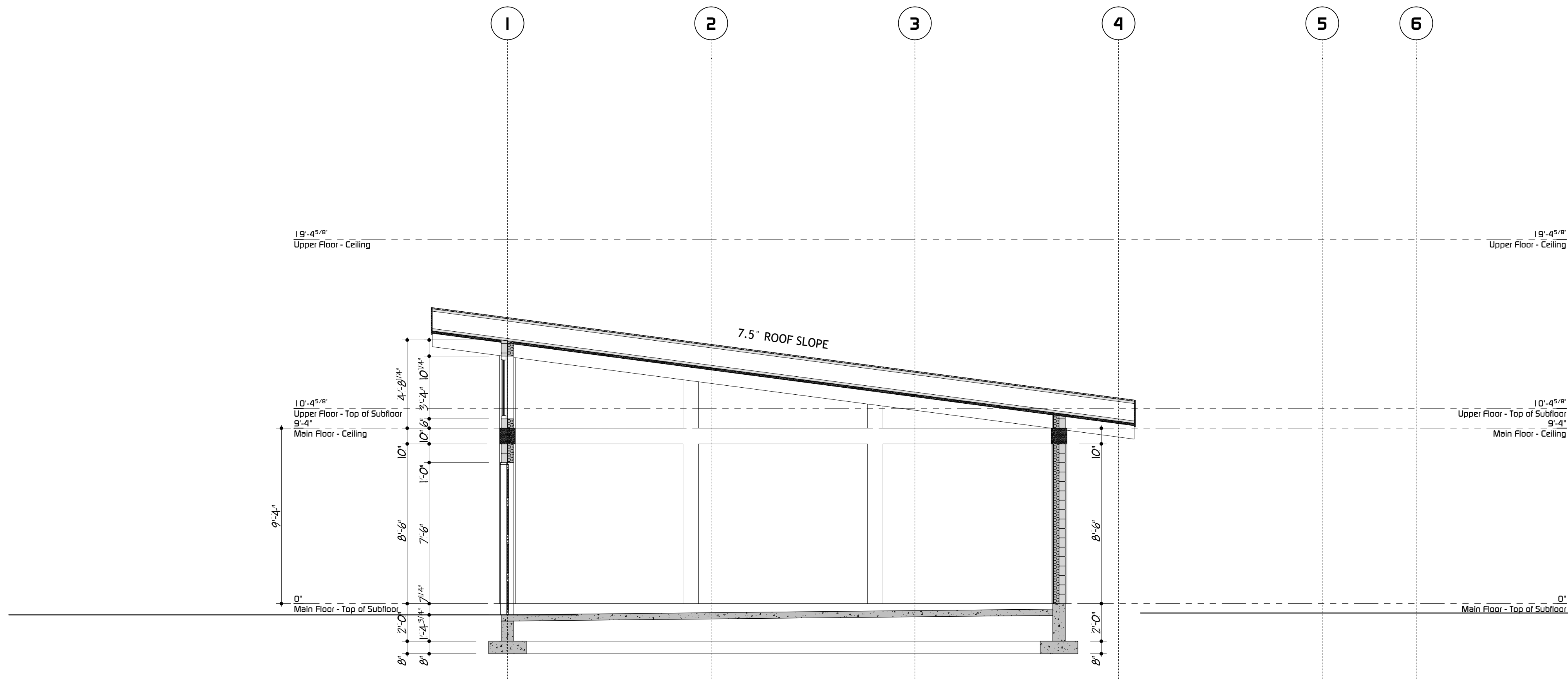


B Section
SCALE: 1/4" = 1'-0"

C Section
SCALE: 1/4" = 1'-0"



D Section
SCALE: 1/4" = 1'-0"



DATE ISSUED	DESCRIPTION
2020-03-13	PERMIT DRAWINGS

Sections - 2

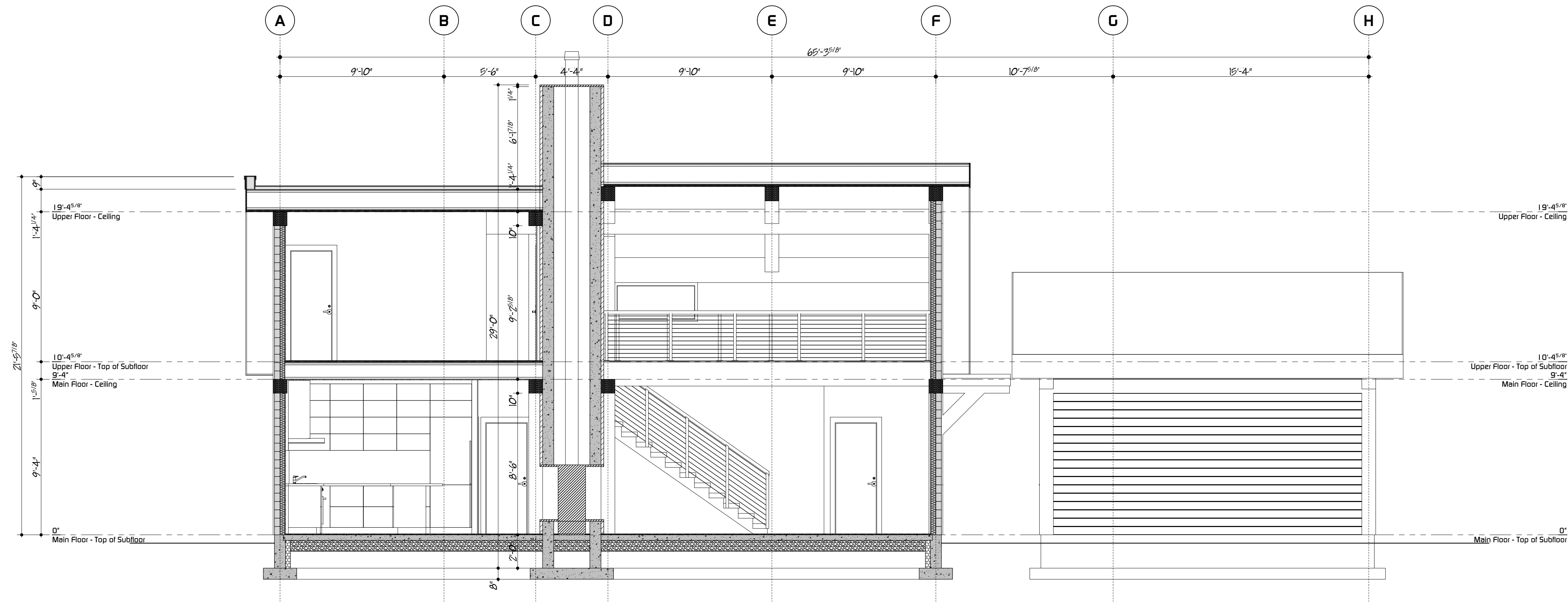
Robinson - Fintry House
PLAN KAP15329, LOT 86, DL 686 ODYD
7379 Fintry Delta Road Fintry BC
R1 Zoning

SCALE
1/4" = 1'-0"

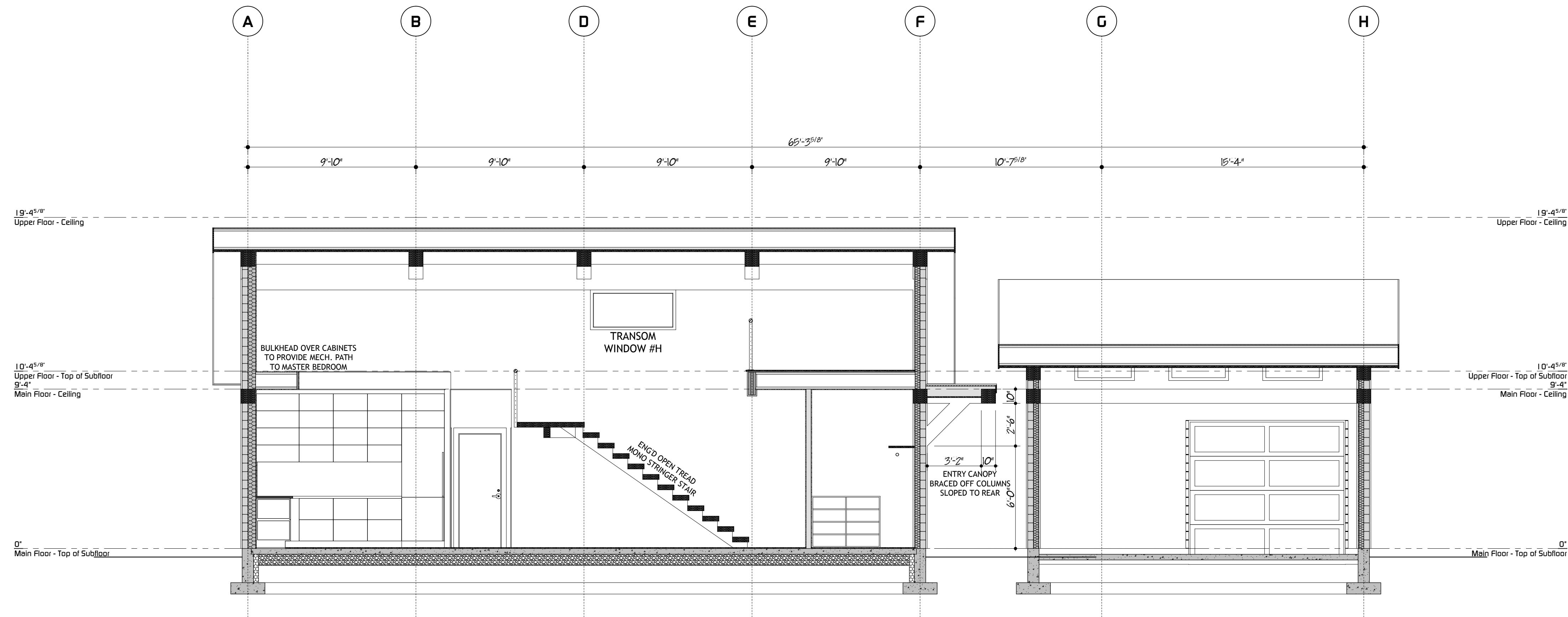
SHEET No

A-302

E Section
SCALE: 1/4" = 1'-0"



F Section
SCALE: 1/4" = 1'-0"



DATE ISSUED
2020-03-13

DESCRIPTION
PERMIT DRAWINGS

Sections - 3

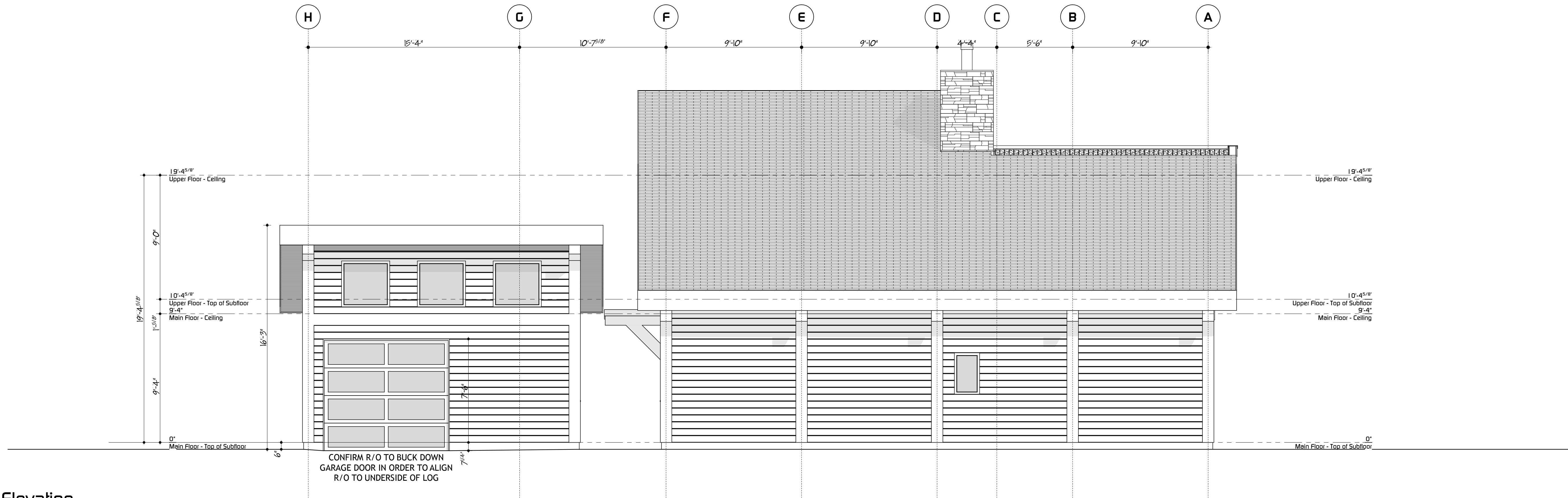
Robinson - Fintry House
PLAN KAP15329, LOT 86, DL 686 ODYD
7379 Fintry Delta Road Fintry BC
R1 Zoning

SCALE
1/4" = 1'-0"

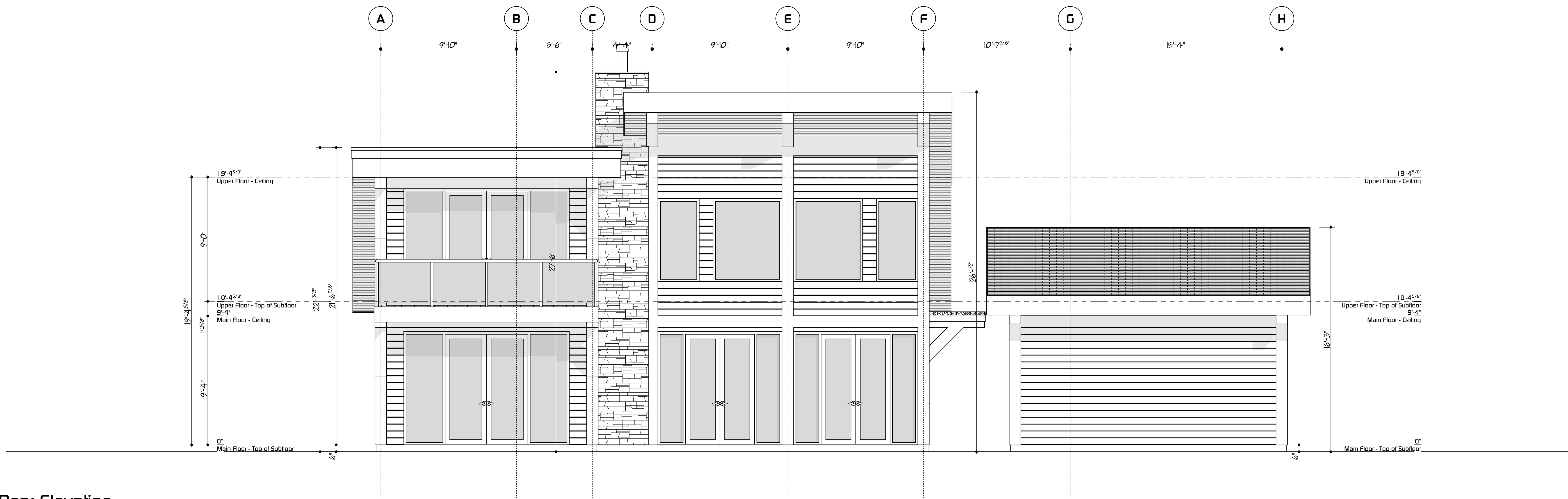
SHEET No

A-303

1 Front Elevation
SCALE: 1/4" = 1'-0"



2 Rear Elevation
SCALE: 1/4" = 1'-0"



DESCRIPTION
PERMIT DRAWINGS

DATE ISSUED
2020-03-13

Elevations - 1

Robinson - Fintry House
PLAN KAP15329, LOT 86, DL 686 ODYD
7379 Fintry Delta Road Fintry BC
R1 Zoning

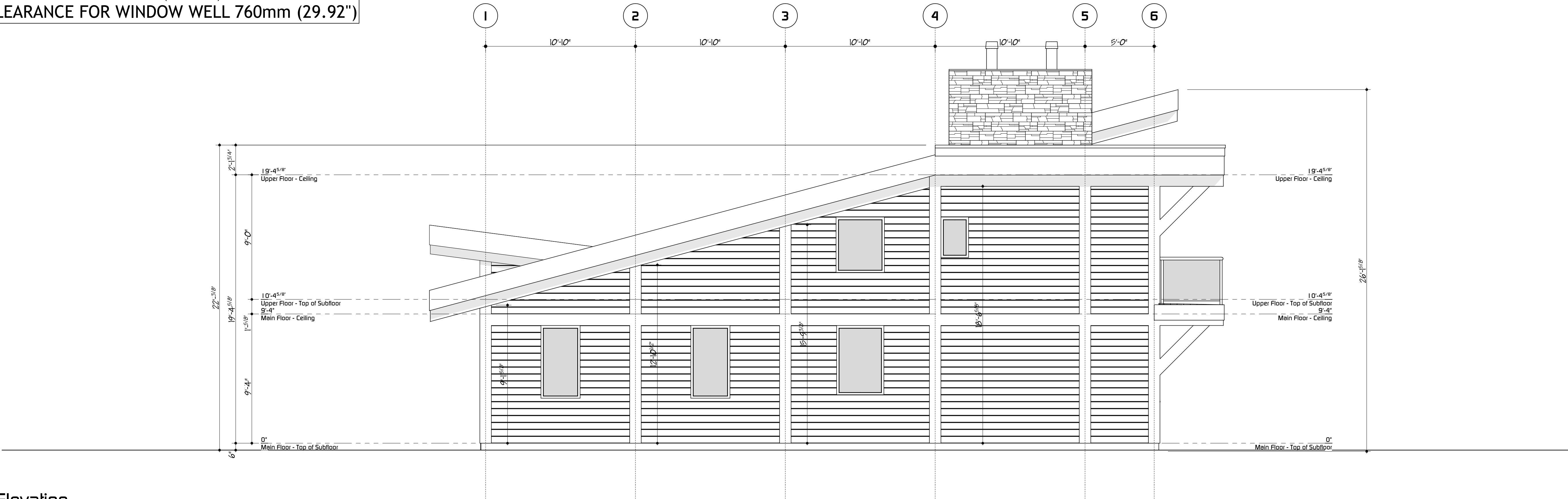
SCALE

1/4" = 1'-0"

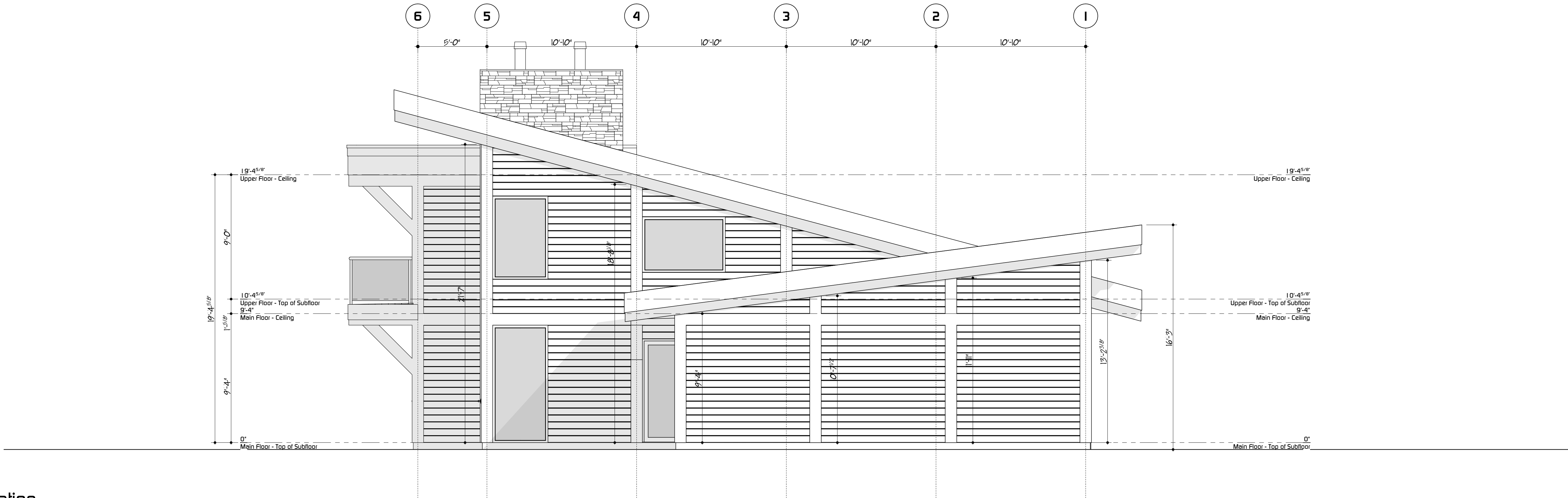
SHEET No

A-401

9.9.10.1 (2):
MINIMUM AREA OF EGRESS WINDOW 0.35m² (3.76 SQ.FT.)
MINIMUM DIMENSION OF 380mm (14.96")
MINIMUM CLEARANCE FOR WINDOW WELL 760mm (29.92")



3 Right Elevation
SCALE: 1/4" = 1'-0"



4 Left Elevation
SCALE: 1/4" = 1'-0"



DATE ISSUED	DESCRIPTION
2020-03-13	PERMIT DRAWINGS

Elevations - 2

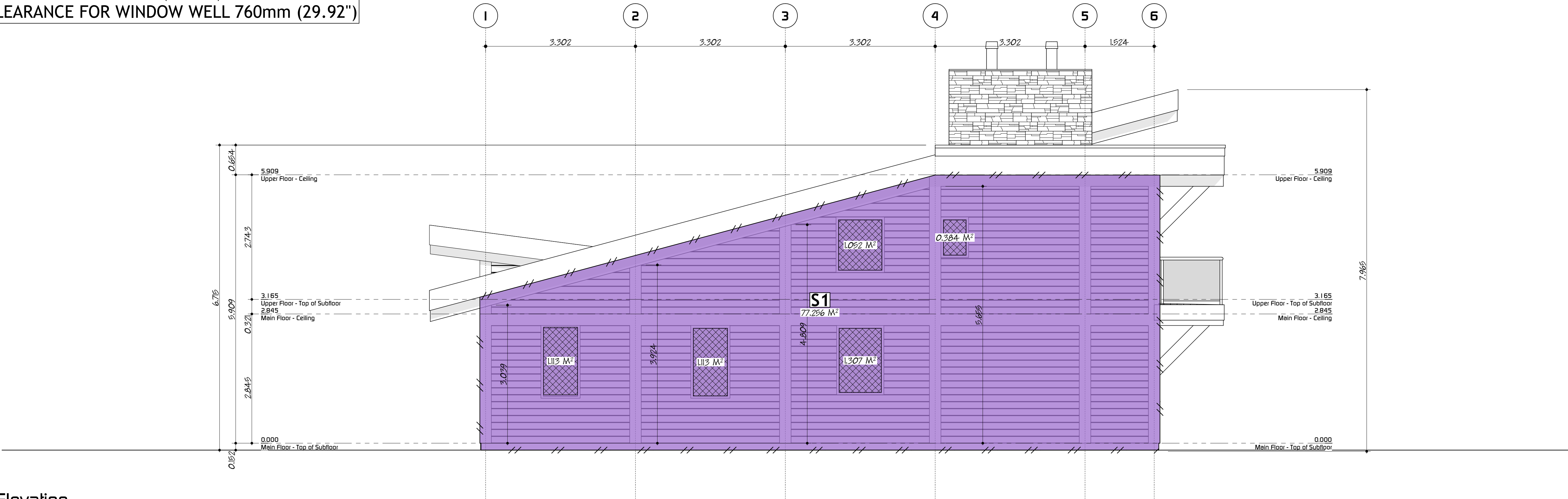
Robinson - Fintry House
PLAN KAP15329, LOT 86, DL 686 ODYD
7379 Fintry Delta Road Fintry BC
R1 Zoning

SCALE
1/4" = 1'-0", 1/8" = 1'-0"

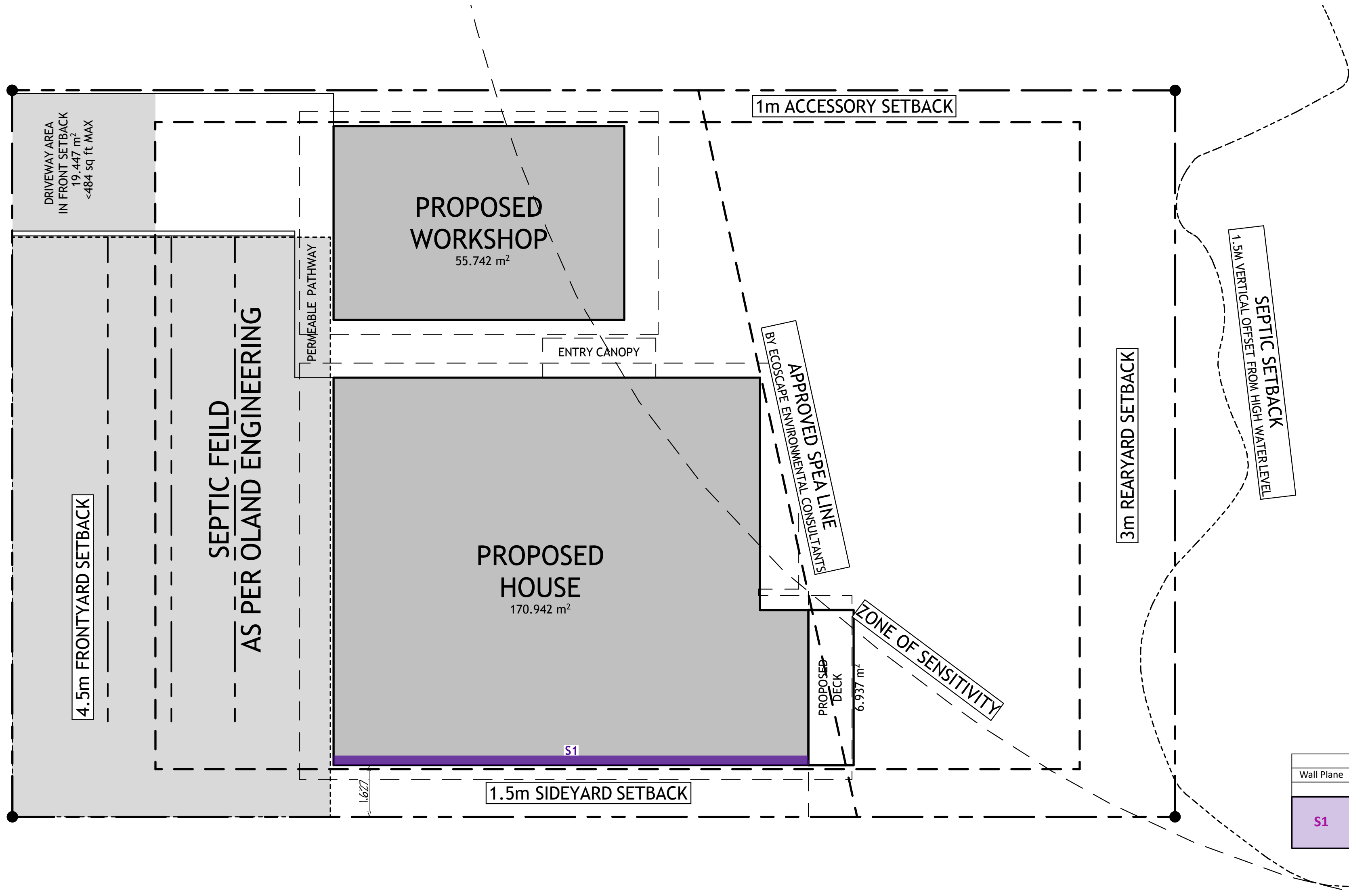
SHEET No

A-402

9.9.10.1 (2):
MINIMUM AREA OF EGRESS WINDOW 0.35m² (3.76 SQ.FT.)
MINIMUM DIMENSION OF 380mm (14.96")
MINIMUM CLEARANCE FOR WINDOW WELL 760mm (29.92")



3 Right Elevation
SCALE: 1/4" = 1'-0"



Site Plan
SCALE: 1/8" = 1'-0"

Table 9.10.15.4.
Maximum Area of Glazed Openings in Exterior Walls <of Houses>
Forming part of Sentences 9.10.15.4.(1) and (2)

Maximum Total Area of Exposing Building Face, m ²	Maximum Aggregate Area of Glazed Openings, % of Exposing Building Face Area										
	Limiting Distance, m										
	Less than 1.2	1.2	1.5	2.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0
30	0	7	9	12	39	88	100	—	—	—	—
40	0	7	8	11	32	69	100	—	—	—	—
50	0	7	8	10	28	57	100	—	—	—	—
100	0	7	8	9	18	34	56	84	100	—	—
Over 100	0	7	7	8	12	19	28	40	55	92	100

Limiting Distance											
Wall Plane	Wall Area		Limiting Distance		Percentage From Table 9.10.15.4			Outside 10 Min. Range	Window Area		
	ft²	m²	ft	m	Area (m²)	Limiting Distance (m)			N	Permitted	Proposed
S1	831.58	77.26	5.34	1.63		1.5	1.63		100%	8.37%	6.43%
					50.00	8.00	8.51	10.00			
					77.26	8.00	8.37	9.45			
					100.00	8.00	8.25	9.00			
											m²



DATE ISSUED	DESCRIPTION
2020-03-13	PERMIT DRAWINGS

Limiting Distance

Robinson - Fintry House
PLAN KAP15329, LOT 86, DL 686 ODYD
7379 Fintry Delta Road Fintry BC
R1 Zoning

SCALE
1/4" = 1'-0"
0", 1/8" = 1'-0"
1'-0", 1' = 1'-0"

SHEET No

A-403

Typical Wall Assembly - 4"x6" Panabode & 2x4 (W1)			
Material		RSI	R
Outside air film	Wind 6.7m/s (winter)	0.03	0.17
Cladding	4" Panabode Western Red Cedar (.0102 x 102mm)	1.04	5.911
Sheathing membrane	2 Layers 30 min. building paper	0.011	0.062
Stud wall	2x4 @ 24" o.c.	RSI wall =	
Insulation	R14 Batt insulation		
Vapour barrier	6 Mil polyethylene		
Gypsum	12mm (RSI 0.0061 x 12mm)	0.073	0.415
Interior air film	Heat flow horizontal	0.12	0.68
Total Effective RSI/R value of entire assembly		2.974	= 16.90
With HRV	Min. Required Effective RSI/R value (Zone 5):	2.97	16.86

Typical Wall Assembly - Siding (W2)			
Material		RSI	R
Outside air film	Wind 6.7m/s (winter)	0.03	0.17
Cladding	8mm Fiberboard siding (RSI 0.003 x 8mm)	0.026	0.15
Sheathing membrane	2 Layers 30 min. building paper	0.011	0.062
Sheathing	11mm OSB (RSI 0.0098 x 11mm)	0.108	0.612
Stud wall	2x6 @ 24" o.c.	RSI wall =	
Insulation	R22 Batt insulation		
Vapour barrier	6 Mil polyethylene		
Gypsum	12mm (RSI 0.0061 x 12mm)	0.073	0.415
Interior air film	Heat flow horizontal	0.12	0.68
Total Effective RSI/R value of entire assembly		3.036	= 17.25
With HRV	Min. Required Effective RSI/R value (Zone 5):	2.97	16.86

Typical Wall Separating Conditioned Space (W4)			
Material		RSI	R
Interior air film	Heat flow horizontal	0.12	0.68
Gypsum Garage side	12mm (RSI 0.0061 x 12mm)	0.073	0.415
Stud wall	2x6 @ 24" o.c.	RSI wall =	
Insulation	R22 Batt insulation		
Vapour barrier	6 Mil polyethylene (Residential side)		
Gypsum Resid. side	12mm (RSI 0.0061 x 12mm)	0.073	0.415
Interior air film	Heat flow horizontal	0.12	0.68
Total Effective RSI/R value of entire assembly		3.054	= 17.35
With HRV	Min. Required Effective RSI/R value (Zone 5):	2.97	16.86

Typical Sloped Roof Assembly (R1)			
Material		RSI	R
Outside air film	Wind 6.7m/s (winter)	0.03	0.17
Roofing	Built-up	0.06	0.34
Sheathing membrane	Vapour retarder	0.00	0.00
Sheathing	19mm Plywood (RSI 0.0087 x 19mm)	0.165	0.937
Roof joists	11 7/8" Eng'd I-Joists @ 24" o.c.	RSI Flat Roof =	
Insulation	R40 Batt Insulation		
Vapour barrier	6 MIL Polyethylene	0.00	0.00
Gypsum	12 mm (RSI 0.0061 x 12mm)	0.073	0.415
Interior air film	Heat flow up	0.11	0.623
Total Effective RSI/R value of entire assembly		6.842	= 38.87
Min. Required Effective RSI/R value:		4.67	26.52

Total Effective RSI/R Value Calculations for Cavities:

Effective RSI =

% area f

RSI frame

100

+

% area c

RSI cavity

RSI = 5.681 R

Effective RSI =

20

0.76

100

+

80

2.46

RSI wall =

1.700 (R 9.66)

Effective RSI =

20

1.19

100

+

80

3.87

RSI wall =

2.668 (R 15.16)

Effective RSI =

6

2.65

100

+

94

7.04

RSI flat roof =

6.404 (R 36.38)

DATE ISSUED	DESCRIPTION	PERMIT DRAWINGS		
2020-03-13				

Details

Robinson - Fintry House
PLAN KAP15329, LOT 86, DL 686 ODYD
7379 Fintry Delta Road Fintry BC
R1 Zoning

SCALE
1" = 1'-0"

SHEET No

A-501