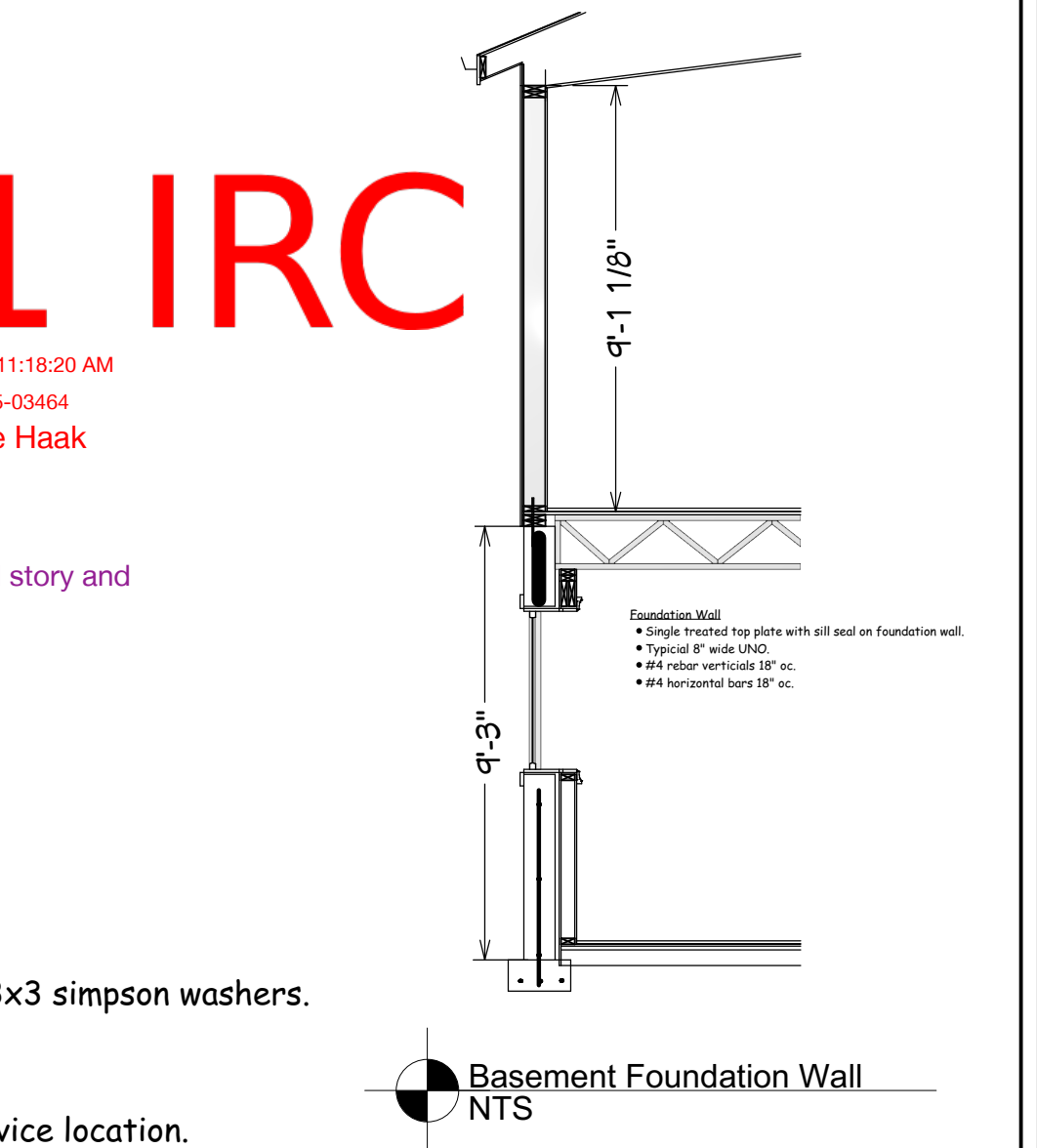
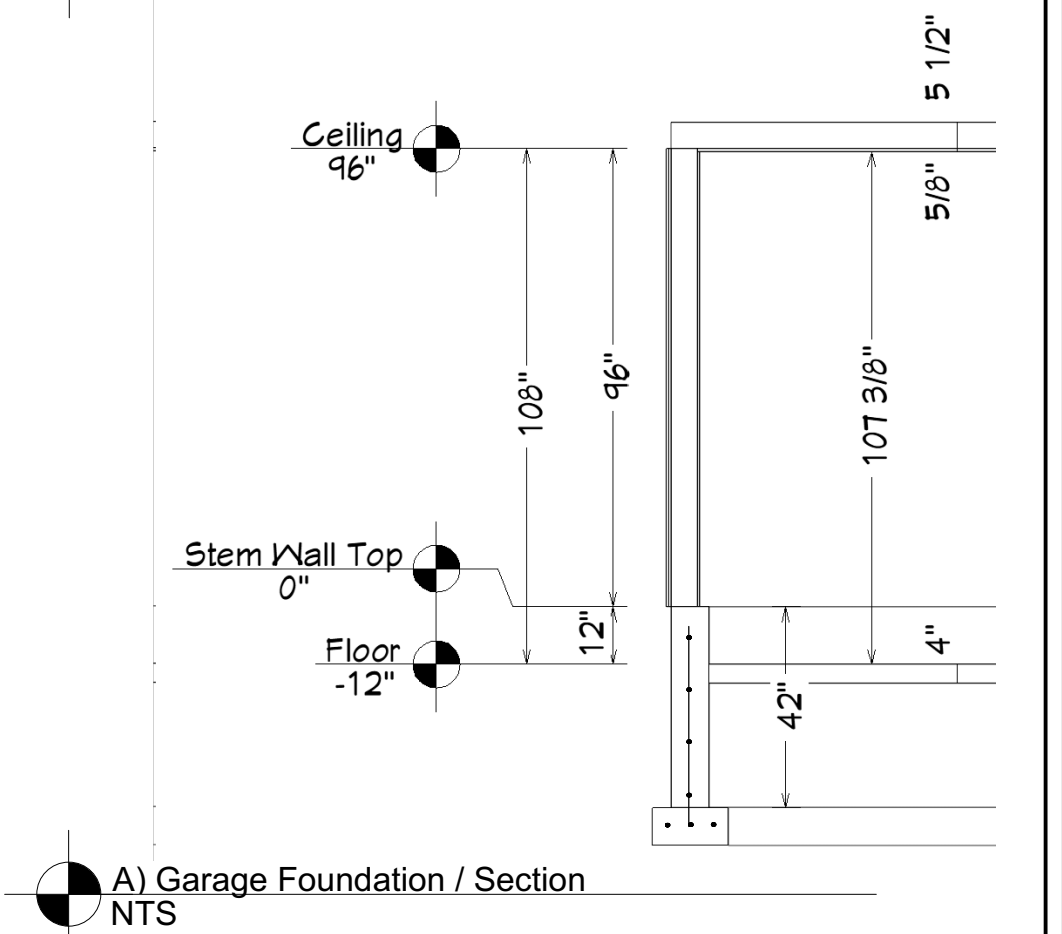
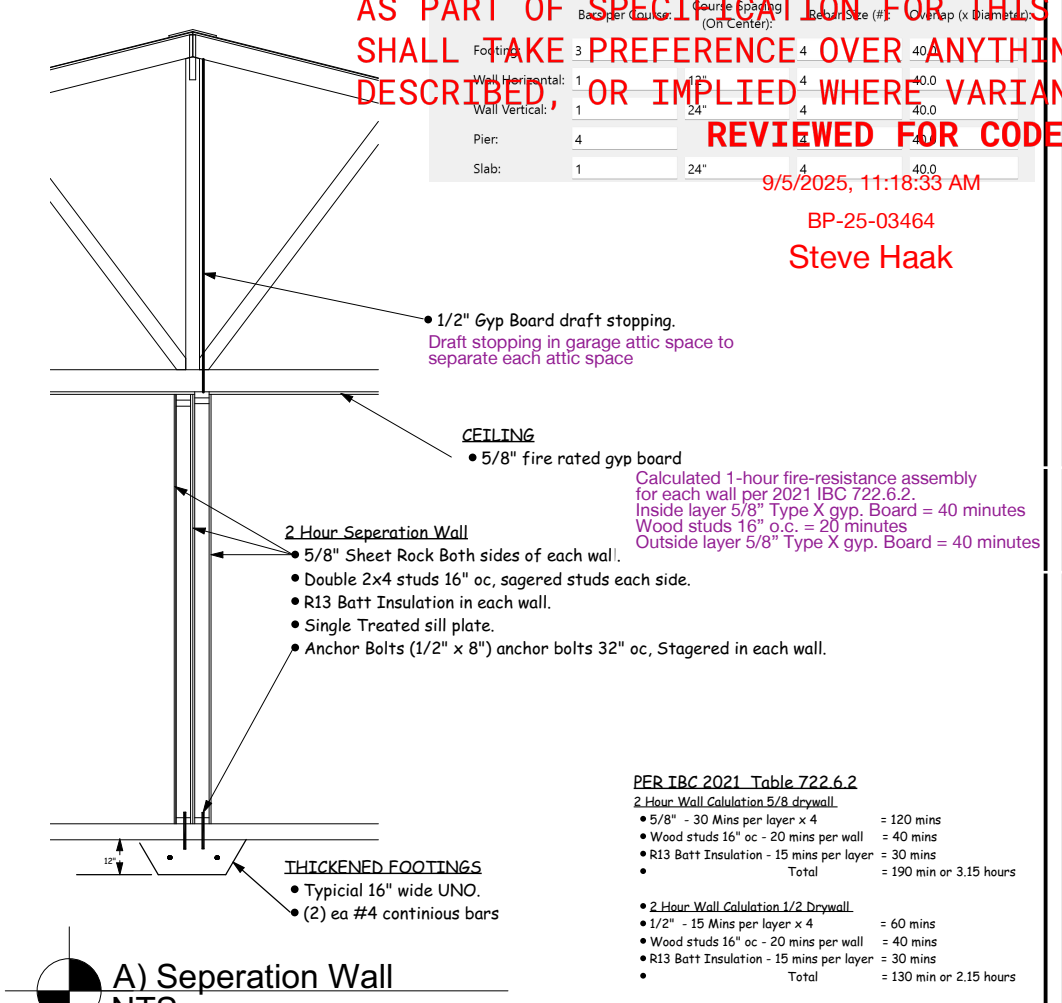


A concrete encased electrode (Ufer ground) is required in the footing.

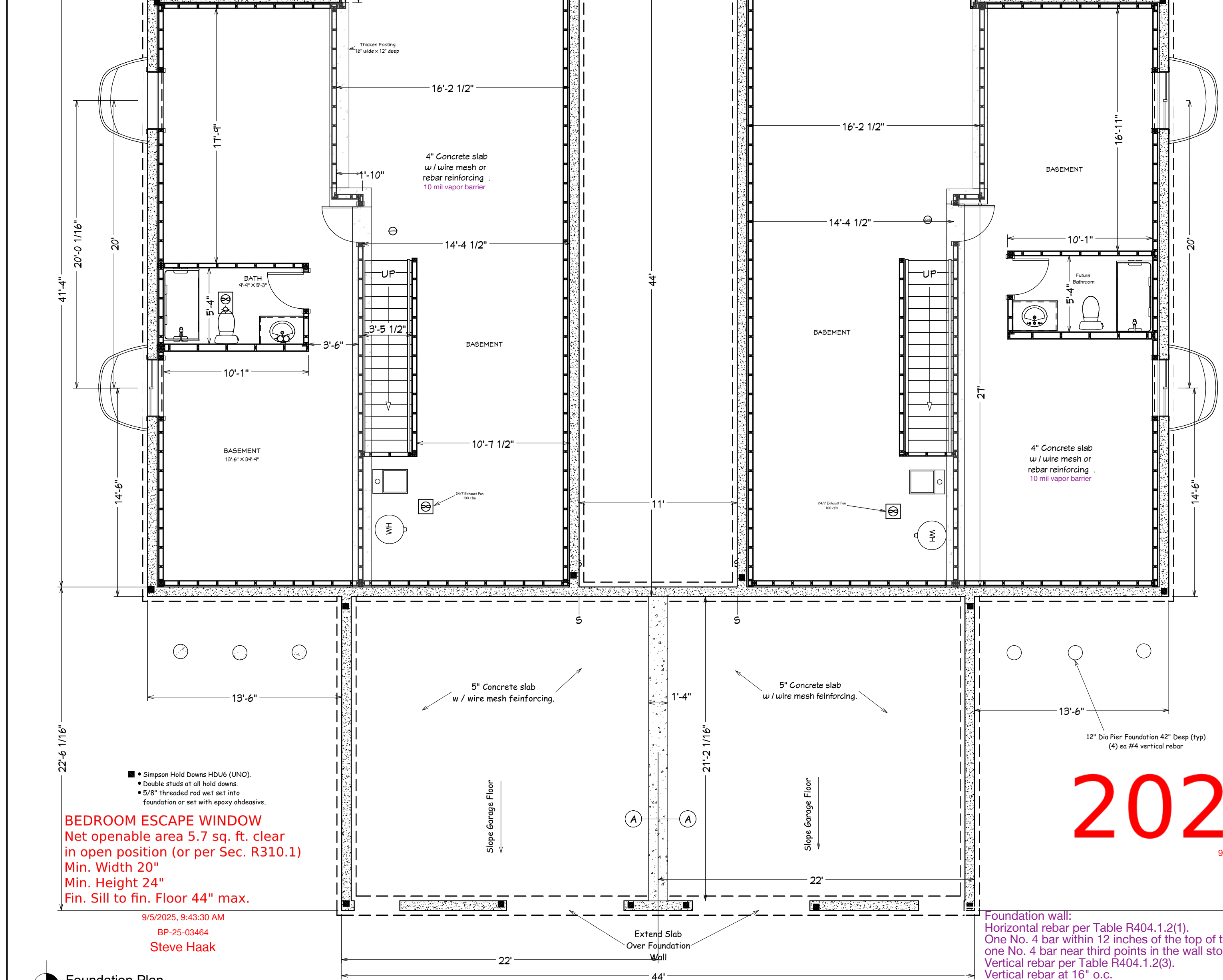
Please provide site drainage with a minimum grade slope of 8.33% for at least 10' from perimeter walls in accordance with the geotechnical report.

CITY STAMPED PLANS ARE TO BE ON THE JOBSITE
 NOTE: ALL FEDERAL, STATE, AND LOCAL CODES, ORDINANCES, REGULATIONS, ETC. SHALL BE CONSIDERED AS PART OF SPECIFICATION. FOR THIS BUILDING AND SHALL TAKE PREFERENCE OVER ANYTHING SHOWN, DESCRIBED, OR IMPLIED WHERE VARIANCES OCCUR.



8/22/2025, 9:30:06 AM
 BP-25-03464
 Steve Haak

9/5/2025, 11:18:33 AM
 BP-25-03464
 Steve Haak



2021 IRC

9/5/2025, 11:18:20 AM
 BP-25-03464
 Steve Haak

Building Codes:

- 2021 International Residential Code
- 2021 International Energy Conservation Code

STREET TREES REQUIRED Per BMCC Sec. 27-1203. Street frontage trees are required in all zoning districts. The area along any property line that abuts a public or private street right-of-way shall be provided a street frontage landscaped area planted with street trees. For all zone districts, 1 street tree required per 40 feet of street frontage. Exceptions: CBD zone, 1 street tree required per 25 lineal feet of street frontage; EBURD, 1 tree per 50 feet of lineal street frontage.

9/5/2025, 3:05:05 PM
 BP-25-03464
 Tate Johnson

NO.	DESCRIPTION	BY	DATE
1	Building Drawings		9-2-2025
2	Revised Building Drawings		

SHEET TITLE:
FOUNDATION PLAN

PROJECT DESCRIPTION:
 Duplex With Basement
 3030 & 3032 Rosebud
 Billings, MT

DRAWINGS PROVIDED BY:
 LAIS DEVELOPEMENT, INC.
 Duplex With Basement
 Billings, MT

DATE:	8/16/2025
SCALE:	
SHEET:	A-1

CITY STAMPED PLANS ARE TO BE USED ON THE JOBSITE
NOTE: ALL FEDERAL, STATE, AND LOCAL CODES, ORDINANCES, REGULATIONS, ETC. SHALL BE CONSIDERED AS PART OF SPECIFICATION FOR THIS BUILDING AND SHALL TAKE PREFERENCE OVER ANYTHING SHOWN, DESCRIBED, OR IMPLIED WHERE VARIANCES OCCUR.
REVIEWED FOR CODE COMPLIANCE

Building Codes:

- 2021 International Residential Code
- 2021 International Energy Conservation Code

Notes:

- Preengineered roof truss design & layout to be provided by the truss supplier.
- Preengineered floor truss design & layout to be provided by the truss supplier.
- 3/4" T&G Floor sheathing attached w/ adhesive and nails.

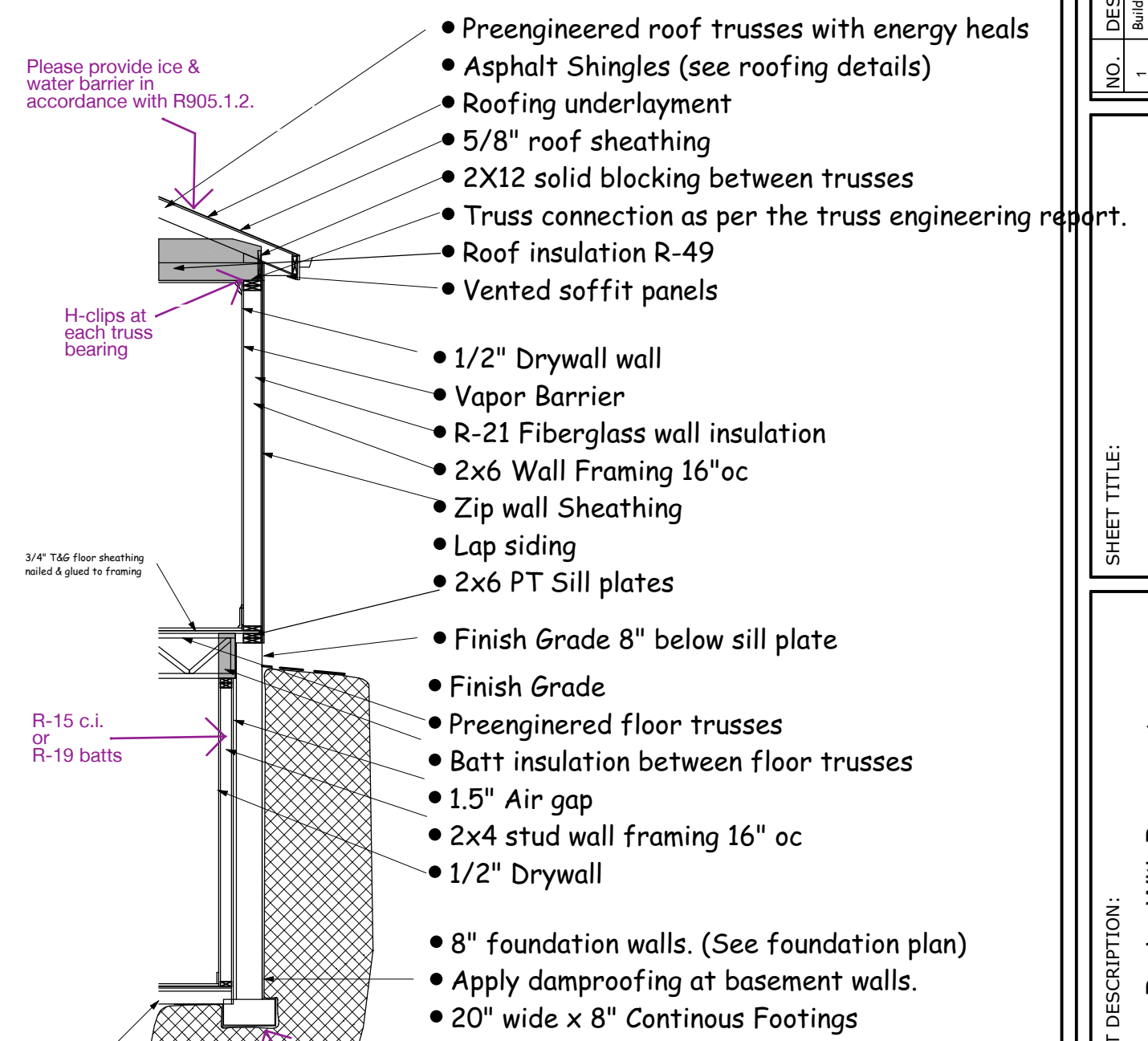
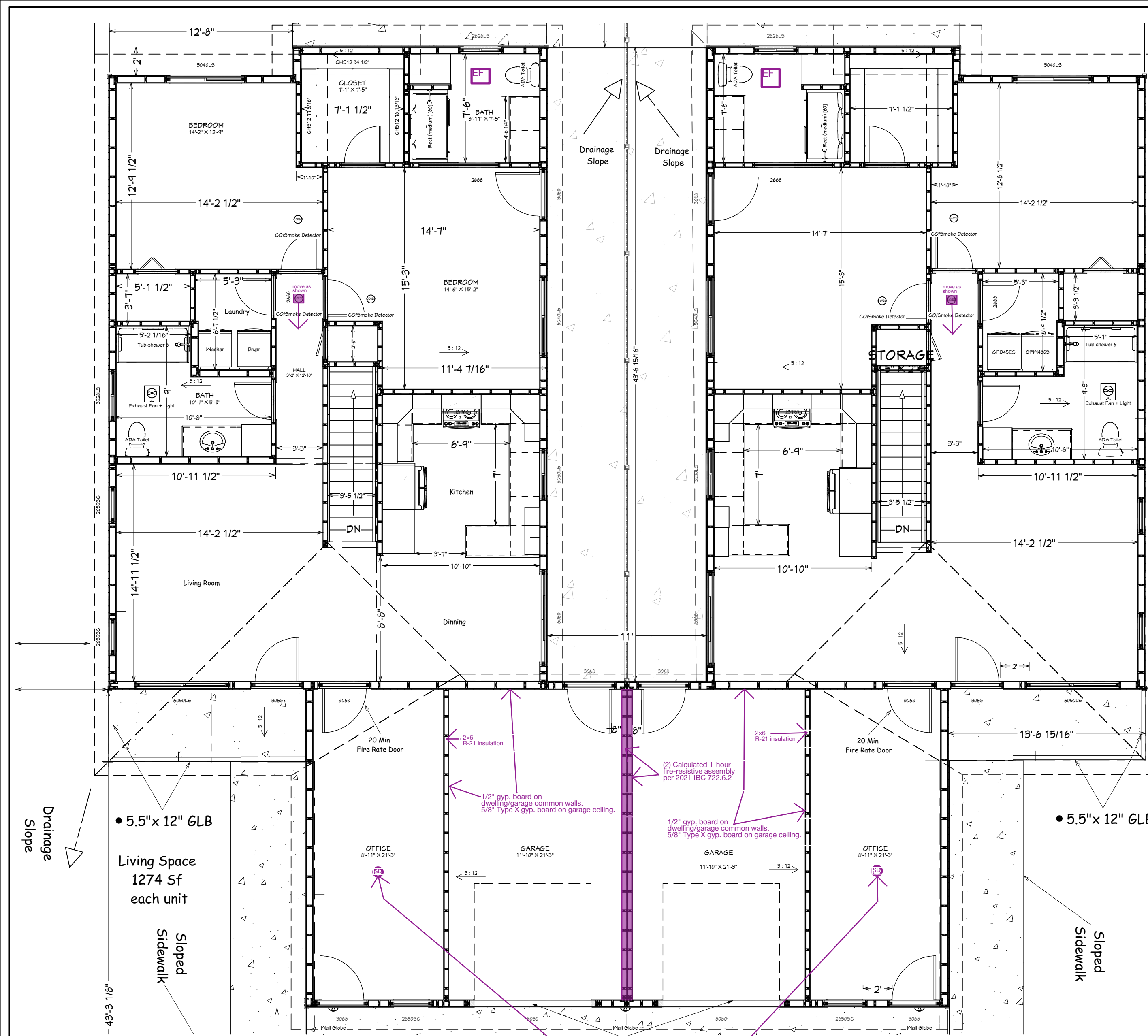
Venting:

- Dryer venting limited to a max distance of 35 feet.

9/5/2025, 11:18:33 AM

BP-25-03464

Steve Haak



SOIL RECOMMENDATIONS APPLY

9/5/2025, 10:57:12 AM

BP-25-03464

Steve Haak

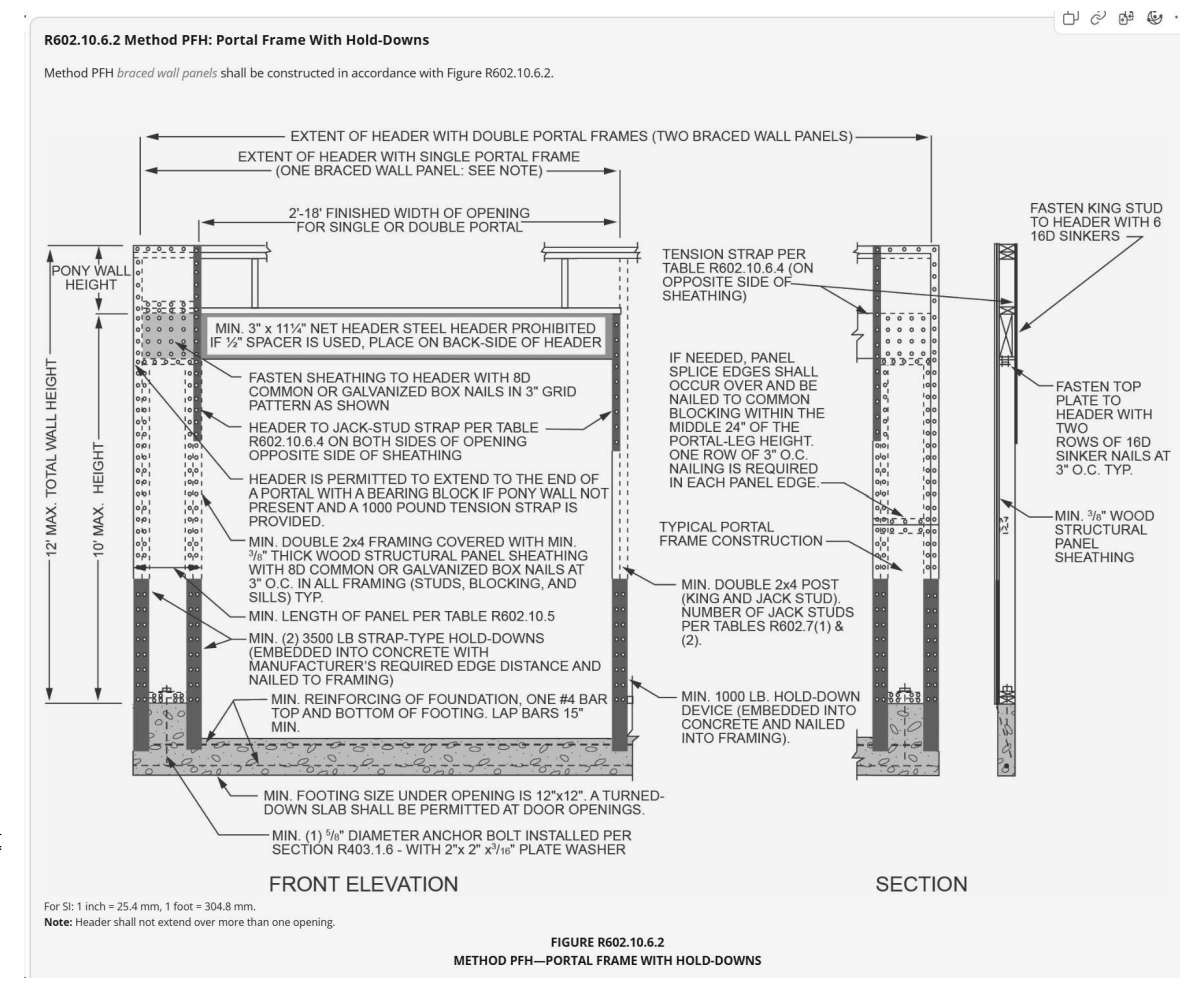
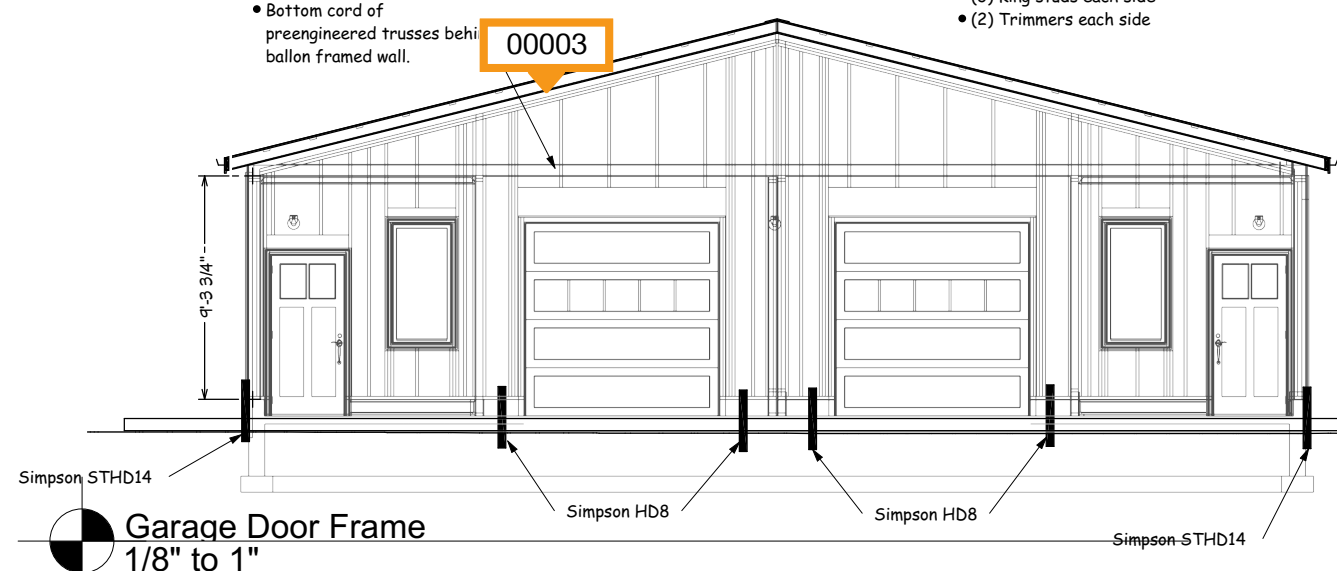
BEDROOM ESCAPE WINDOW
 Net openable area 5.7 sq. ft. clear in open position (or per Sec. R310.1)
 Min. Width 20"
 Min. Height 24"
 Fin. Sill to fin. Floor 44" max.

• All Door & Window Header are triple 2x10's (UNO)

Please provide a whole house mechanical exhaust fan, in each dwelling, at a minimum of 51 cfm in accordance with IMC 2021 R403.3.2.1.
 Please provide kitchen exhaust in accordance with IMC 2021 403.3.2.3. Kitchen exhaust must be discharged outdoors.

Allowable Design Values & Stresses, Section Properties

BOISE GLULAM® 24F-V4 Design Values											
Width (in)	Depth (in)	Weight (lb/lf)	Adjusted Bending Stress (Fb)	Adjusted Compression Stress (Fc)	Adjusted Tension Stress (Ft)	Adjusted Shear Stress (Fv)	Adjusted Modulus of Elasticity (E)	Adjusted Modulus of Rupture (Frm)	Adjusted Modulus of Rupture (Frm)	Adjusted Modulus of Rupture (Frm)	Adjusted Modulus of Rupture (Frm)
4	4.6	1313	2700	16.2			1,900,000	12,000	14,500	334.1	
7.5	5.7	4141	5859	109.9			1,900,000	14,600	30003	20313	530.6
9	6.8	4969	8438	189.8			1,900,000	16,000	17660	26214	792.0
10.5	8.0	5797	11484	301.5			1,900,000	18.0	13718	32389	1123.7
12	9.1	6625	15000	450.0			1,900,000	20.1	14375	40056	1546.9
13.5	10.3	7453	18984	640.7			1,900,000	22.3	8944	12656	237.3
15	11.4	8281	23436	878.0			1,900,000	24.6	10733	18225	410.1



ID	Date	Floor	Manufacturer	Size	Description	Count
W1		0		48"x42"	Left Sliding	2
W2		0		48"x42"-eg	Left Sliding	4
W3		1		30"x30"	Left Sliding	2
W4		1		36"x30"	Left Sliding	1
W5		1		36"x36"	Left Sliding	2
W6		1		60"x48"	Left Sliding	4
W7		1		60"x60"	Left Sliding	2
W8		1		24"x60"	Single Casement-hl	4

NO.	DESCRIPTION	BY	DATE
1	Building Drawings		9-2-2025
2	Revised Building Drawings		

SHEET TITLE:

PROJECT DESCRIPTION:
 Duplex With Basement
 3030 & 3032 Rosebud
 Billings, MT

DRAWINGS PROVIDED BY:
 LAIS DEVELOPEMENT, INC.
 Duplex With Basement
 Billings, MT

DATE:

8/16/2025

SCALE:

SHEET:

A-2

CITY STAMPED PLANS ARE TO BE ON THE JOBSITE
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REVIEWED FOR CODE COMPLIANCE

9/5/2025, 11:18:33 AM
 BP-25-03464
 Steve Haak



Side Elevations
 NTS

NO.	DESCRIPTION	BY	DATE
1	Building Drawings		9-2-2025
2	Revised Building Drawings		



Style "D" edge metal (typ)
 Gutter & downspouts per site plan

- Insulation:**
- All exterior walls to have R-21 batt insulation.
 - All stud spaces less the 1.5" wide are to be filled with spray foam insulation.
 - Attic insulation R-49 blown in fiberglass insulation.
 - Install Insulation baffles in truss cavities as required.
 - Basement walls to be furred out 3.5" and filled with R-19 batt insulation or formed with ICF wall forms.
- *ICF form per R316.4

Front Elevation (North)
 NTS

SHEET TITLE:

PROJECT DESCRIPTION:
 Duplex With Basement
 3030 & 3032 Rosebud
 Billings, MT



- Roofing: (typ)**
- Asphalt Shingle roofing
 - Titium Underlayment
 - Ice & Water to extend 2' to the inside of the exterior walls.
 - Style "D" edge metal
 - Metal soffit panels
 - Metal fascia panels

Back Elevation (South)
 NTS

DRAWINGS PROVIDED BY:
 LAIS DEVELOPEMENT, INC.
 Duplex With Basement
 Billings, MT

DATE:
 8/16/2025

SCALE:

SHEET:
A-4

R316.4 Thermal barrier. Unless otherwise allowed in Section R316.5, foam plastic shall be separated from the interior of a building by an approved thermal barrier of not less than 1/2-inch (12.7 mm) gypsum wallboard, 23/32-inch (18.2 mm) wood structural panel or a material that is tested in accordance with and meets the acceptance criteria of both the Temperature Transmission Fire Test and the Integrity Fire Test of NFPA 275.

