# CONTACT INFORMATION

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# RENOVATION PLANS

FOR

LOT 18 MOUNT WERNER MEADOWS AMENDED SUBD

> ALSO KNOW AS: 3367 APRES SKI WAY

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REVIEWED FOR CODE COMPLIANCE 11/30/2023

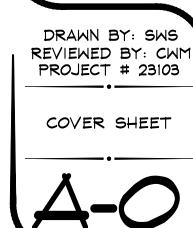




ISSUE DATES

10 . 26 . 23 REVIEW SET

11 . 3 . 23 PERMIT SET





# MARNO DUPLEX PENOVATION

All work must comply with state and local codes, based on the local Zoning Regulations, the 2018 International Building Code, the 2018 International Residential Code, the 2018 International Plumbing Code, 2018 the International Mechanical Code, the 2018 Energy Conservation Code and the 2023 National Electric code. The contractor shall comply with all laws, ordinances, rules and regulations of any public authority bearing on the performance of the work, including O.S.H.A.

Location of the utilities (electrical, telephone, cable TV, gas, water, sewer) shall be verified before construction begins. All on site construction safety and construction means and methods are the responsibility of the contractor. There is no

implication of the construction safety requirements or building methods contained in these drawings. Actual site conditions may require that some of the components of the work should be done differently than shown on

these drawings. All dimensions and conditions to be verified by the contractor prior to construction. Verify changes with the designer and engineer. These drawings represent a simplified builder's set of plans. Additional detailing may be required of the engineer during

construction upon request. Any variation which requires a physical change from these plans must be brought to the attention of the designer and

engineer in order to maintain the design intent of the project.

All work connected with this project by any trade involved shall be of the highest quality attainable in accordance with the professional practice of the trade and code standards

All interior and exterior dimensions are to face of stud or face of concrete, U.N.O.

All exterior walls are nominal 2x6 stud construction, U.N.O. All interior walls are nominal 2x4 stud construction, U.N.O. Do not scale drawings

The water closet stool shall be located in a clear space of not less than 30" in width. The clear space in front of the water closet stool shall be not less than 21"

Attic access shall be provided w/ a min. clear opening of 22"x30" and min. 30" head height

Minimum clear ceiling height is 7ft for habitable space \$ hallways \$ 6'-8" for bathrooms, laundry rooms \$ stairs. Exceptions apply for sloped ceilings and basements per R305

If any discrepancies are found in these drawings notify engineer and/or designer immediately:

Exterior roofs, flashing, ledges, concrete  $\sharp$  other surfaces shall slope min. k:12 to prevent water ponding. Landings shall also slope max. ½:12 to prevent slipping. Covered garages or carports floor surface shall slope min. ½:12 to provide positive drainage to drain.

Per local code adoptions section R402.1.2. 2x6 walls may be insulated with:

- 1) R20 in the cavity of the wall and R5 continuous (R20/5)
- 2) R22 in the cavity of the wall and R3 continuous (R22/3) 3) R27 in the cavity of the wall (R27/0)

Exterior walls open to the outside air must have a class II Vapor retarder ("smart vapor retarter" or kraft faced batt with .1 - 1.0 perm) on the inside of the framed wall (IRC R702.7). However, if min. R-15 spray foam is used in the exterior wall, Class III vapor retarder (latex or enamel paint) can be used w/o a class II vapor retarder on the inside of the wall (IRC, Section R702.7.1). Basement or exterior walls below grade shall only have a Class III vapor retarder on the interior of the wall to allow drying to the interior.

# CRAWL SPACE

Unvented crawl spaces shall have Class I vapor retarder (sheet polyethlene, or material w/ perm rating less than .1) covering exposed earth per R408.3. Overlap vapor retarder joints min. 6" and seal or tape seams. Extend \$ seal edges min. 6" up stem walls

Crawl space access shall be provided w/ min. 18"x24" through the floor \$ min. 16"x24" through the wall.

If mechanical equipment is provided in a crawlspace, the min. access provided shall be large enough to remove the largest appliance but not smaller than 30"x22".

### ABBREVIATIONS LIST ABOVE ALTERNATE/ALTERNATING ALUMINUM ARCHITECT/ARCHITECTURAL BOTTOM OF CENTER LINE CONCRETE MASONRY UNIT COLUMN CONC CONCRETE CONT CONTINUOUS DOUBLE DOUGLAS FIR DIA DIAMETER DIAMETER DWG DRAWING EACH ELEV ELEVATION EOR ENGINEER OF RECORD EACH WAY EXT EXTERIOR FOOTING GLUE-LAMINATED BEAM GΤ GIRDER TRUSS HEM-FIR IBC INTERNATIONAL BUILDING CODE IRC INTERNATIONAL RESIDENTIAL CODE LAMINATED STRAND LUMBER LVL LAMINATED VENEER LUMBER MAXIMUM MECH MECHANICAL MFR MANUFACTURER MINIMUM OC ON CENTER OVERHANG ORIENTED STRAND LUMBER PERP PERPENDICULAR PLATE PLUM PLUMBING PLYWD PLYWOOD PSL PARALLEL STRAND LUMBER PRESERVATIVE TREATED/POST TENSIONED REINF REINFORCEMENT/REINFORCING REQ REQUIRED STEP BOTTOM OF WALL SBW SCHEDULE SCHED SCHEDULE SDU SECONDARY DWELLING UNIT SIMILAR SPRUCE-PINE-FIR STRUCT STRUCTURE/STRUCTURAL TOP AND BOTTOM TONGUE AND GROOVE THRU THROUGH TYP TYPICAL UNO UNLESS NOTED OTHERWISE VIF VERIFY IN FIELD MDWEATHER RESISTIVE BARRIER

WELDED WIRE FABRIC

## <u>WINDOWS</u>

Habitable spaces within dwelling units shall have natural light provided by exterior openings equal to 8% of the floor area. Natural ventilation shall be provided by means of operable exterior openings equal to 4% of the floor area. Laundry rooms, toilet rooms and bathrooms shall either have an operable window or be mechanically ventilated.

## Safety glazing shall be provided in the following hazardous locations: 1) In doors where glazed opening is greater than $3^{"}\phi$

- 2) Within 24" adjacent to either side of doors if less than 60" above the walking surface 3) Single panes where all following conditions exist: greater than 9 sq.ft., less than 18" above the floor,
- top edge higher than 36" above the floor and within 36" horizontal distance of walking surface. 4) Glazing in guards and railings
- 5) Glazina containina wet surfaces of bathtubs, showers, pools, etc. if less than 60" to walking surface.
- 6) Adjacent to the bottom stair landing w/in 60" arc length if less than 36" above landing 7) Site-built Windows
- 8) Skylights and glazing sloped more than 15°

Sleeping rooms and basements w/ habitable space shall have min. one operable emergency escape w/ min 5.7 s.f. openable area, min. 20" clear width or min. 24" clear hat. \$ max 44" sill height. (R310.2) Egress window wells shall be provided below grade and are allowed blw decks if min. 36" blw. deck

Stairs shall have a minimum 36" clear width at all points above the handrail. The surface of stairs shall be slip resistant. Minimum vertical headroom is 6'-8'' from the nosing. Max. riser height is  $7\frac{3}{4}''$ , and min. tread depth is 10". Max. vertical rise shall be 12'-7" between levandings.

Landings shall be provided at the top and bottom of each stairway with a depth no less than 36" and a width no less than the width of the stairway served. Landings are not required at the top of interior stairs provided that a door does not swing over the stairs. Max. 1 step down to landing allowed at outside of exterior doors.

The greatest riser height or nosing within a flight of stairs shall not exceed the smallest by more than  $\frac{3}{6}$ ". At open risers higher than 30" above the floor or grade, openings shall not be greater than 4"

Handrails shall be provided on at least one side of each continuous stair flight with four or more risers. and shall be 34"-38" tall, measured vertically from the sloped plane of the tread nosinas. Handrails shall comply with R311.7.8.

Open sides of stairways, landings, ramps, balconies and porches which are more than 30" above grade shall be protected by a guardrail. All guardrails must be 36" above finished floor and shall allow no more than a 4" diameter sphere to pass through any portion of the railing per IRC R312.

Walls and ceilings of enclosed usable space under stairs requires 1/2" gypsum wallboard. The door to access such spaces need not be rated.

Provide smoke detection per IRC section R314.

Provide carbon monoxide detection per IRC section R315.

Provide 2x Fireblocking in concealed walls at 101 max. o.c., and at dropped ceiling transitions, and at the top and bottom of concealed stair stringers per IRC section R302.11

Opening between a private garage and residence shall be min. 1-3/8" thick, of solid wood, or solid honeycomb core steel doors or 20-min fire rated that are self-closing and self-latching. Openings between garages and sleeping rooms prohibited. Habitable rooms located above garages shall be protected  $w/\min \frac{\pi}{8}$  Type X gypsum board on the garage ceiling.

Secondary dwelling units separated from a garage must have a 1-hr fire rated ceiling/floor and/or wall assembly per IRC, Section R302.3 to separate between the garage and dwelling spaces. Exterior wall supporting constrction must have a min. of  $\frac{5}{8}$ " type x gypsum on the inside face of the wall as a RCRBD approved code modification

Provide min. 1/2" drywall on the underside of all TJI joists to protect the engineered webs in the event of a fire per IRC Sec. R302.13. If the floor is located over a crawl space not used for storage or fuel-fired or electric powered heating appliances, the drywall is not required.

LEGAL DESCRIPTION

LOT 18 MOUNT WERNER MEADOWS

AMENDED SUBD

2018 IBC, 2018 IEBC, 2018 IRC, CODE

R-3

S.S. COMMUNITY DEVEOPMENT CODE

GROUP

SUMMARY

RN-3 (RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

2,568 S.F

ZONING DIMENSIONAL STANDARDS

5 FT.

20 FT

FT.

5 FT.

THE PURPOSE OF THIS PROJECT IS TO ADD A

SECONDARY DWELLING UNIT (SDU) IN WHAT IS NOW THE EXISTING BASEMENT. NO SHORT TERM

LONG TERM RENTALS ARE PERMITTED

RENTALS ARE PERMITTED IN THE PROPOSED SDU.

NEIGHBORHOOD - THREE)

0.14 AC. (6,098.4 SQ. FT)

ZONE REQ. PROPOSED

(AREA EXTERIOR

|16.8% (UNCHANGED

UNCHANGED

UNCHANGED

UNCHANGED

UNCHANGED

UNCHANGED

UNCHANGED

PROJECT

CONSTRUCTION TYPE V-B

OCCUPANCY

CLASSIFICATION

ZONING

PRIMARY USE ACCESSORY USE

GROSS FLOOR AREA

LOT AREA

STANDARD

LOT COVERAGE MAX

BUILDING HEIGHT MAX.

AVG. P. HEIGHT MAX

FRONT SETBACK MIN.

PRINCIPAL

ACCESSORY

SIDE SETBACK MIN.

PRINCIPAL:

ACCESSORY

REAR SETBACK MIN.

PRINCIPAL

ACCESSORY

FLOOR AREA RATIO MAX. NO MAX

## ROOF ASSEMBLIES (IRC CHAPTER 8 \$ 9)

Roof ventilation of enclosed roof assemblies shall comply with R806 and shall provide min, net free ventilating area of 1500 of the area of the vented space. Provide 40%-50% of the ventilators no more than 3ft. below the highest point of the roof, and the remainder at the eave. All vents shall be protected against entrance of rain or snow and shall have openings between  $\frac{1}{16}$ ". The same venting area shall be provided between the insulation and roof sheathing

Unvented roof assemblies shall comply with R806.5 with 1 of the 4 following prescriptive options: Note for all options, the roof shall dry to the inside, thus Class I vapor retarder shall NOT be installed on the ceiling. 1. If air-impermeable insulation is used, it shall be Class II vapor retarder, min. R-49, and be applied directly to the underside of

- 2. A combination of air-impermeable and air-permeable insulation may be used where min. R-19 air-impermeable is applied to
- underside of sheathina \$ shall be accompanied by min. R-30 continuous rigid board insulation above the sheathing.
- 3. Alternatively, R-30 air-impermeable insulation can be applied to the underside of sheathing, w/min. R-19 air-permeable beneath. 4. Insulation may be installed above the structural roof sheathing as Min. R-30 air-impermeable insulation (rigid board or sneet

Provide Grace lice and water shield underlayment, or equivalent product, from the edge of roof overhangs to the ridge,

Asphalt shingles when applied on 2:12 to 4:12 roof pitches shall \$ require double underlayment (apply a 19" strip of underlayment CODE parallel to and starting at the eaves. Apply 36" wide sheets of underlayment, overlapping successive sheets 19") Re: R905 2

Metal panel roofing shall have min. ½:12 slope ¢ comply w/ R905.10. Apply underlayment in accordance w/ manufacturer's instructions

Attic access shall be provided if attic is more than 30" tall (measured from top of ceiling framing to underside of roof framing members for more than 30 sq. ft. Access shall have a rough-framed opening of min. 22"x30" with min. 30" clear headro

Snow guards shall be provided at the eave of all metal roofs, U.N.O

## CHIMNEYS & FIREPLACES (IRC CHAPTER 10)

Wood or other combustible materials shall not be placed within 2" from the front face and sides and not less than 4" from the back of masonry fireplaces

All masonry chimneys shall extend 2ft. higher than any portion of a building within 10' \$ min. 3ft. above the highest point where the chimney penetrates the roof

## MECHANICAL/ENERGY SYSTEMS

insulation)

Appliances located in garages and having an ignition source shall be elevated such that the source of ignition less than 18" above the

If appliances are located in the crawl space, an ignition barrier shall be provided per IRC section R316.5.4 on all ceilings/walls of mechanical room in crawl space

Dryer exhaust systems shall be independent of all other systems, shall transport the moisture to the outdoors and shall terminate on the outside of the building in accordance with M1501 and M1502 w/min. 36" clearance to building openings or soffit vents.

All bathrooms shall be vented per IRC section 303.3

Dishwashers shall be connected to a separate stand pipe or approved air gap prior to connection to sanitary drainage.

Heating and Cooling equipment appliances shall be installed per manufacturers instructions and in accordance with IRC, Chapter 14.

Meter location must be approved by an Atmos Energy Corporation employee during a mandatory site visit to be scheduled after foundation is in place. Meters will not be allowed under a shedding roofline or where overhanging snow is a danger to the meter set.

If located within Routt County (w/ the exception of the Town of Hayden), the building or dwelling unit shall be tested with a blower door test by a certified 3rd party and verified as having an air leakage rate not exceeding three air changes per hour as per R402.4.1.2 testing. A certificate of completion must be submitted to the Routt County Building Department prior to a TCO or CO

Provide whole-house mechanical ventilation in accordance with Section M1507.3 and mechanical ventilation system fans shall meet the efficiency requirements of Table R403.6.4

Heating load calculations and equipment sizing shall be submitted for review and approval when applying for a mechanical permit. Do not install or inspect mechanical equipment or HVAC until submitted to RCRBD and approved.

# THERMAL ENVELOPE NOTES

THE BUILDING ENVELOPE SHALL BE DURABLY SEALED TO LIMIT INFILTRATION. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION. THE FOLLOWING SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED, OR OTHERWISE SEALED WITH A BARRIER

- MATERIAL, SUITABLE FILM, OR SOLID MATERIAL: 1. ALL JOINTS, SEAMS, AND PENETRATIONS
- 2. SITE-BUILT WINDOWS, DOORS, & SKYLIGHTS
- 3. OPENINGS BETWEEN WINDOW & DOOR ASSEMBLIES 4. UTILITY PENETRATIONS
- 5. DROPPED CEILINGS & CHASES ADJACENT TO THE
- THERMAL ENVELOPE 6. KNEE WALLS
- 7. WALLS & CEILING SEPARATING A GARAGE FROM CONDITIONED SPACES
- 8. BEHIND TUBS \$ SHOWERS OF EXTERIOR WALLS 9. BEHIND FIREPLACE INSERTS

10. ANY OTHER SOURCE OF INFILTRATION

WINDOWS, SKYLIGHTS, & SLIDING DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.3 cfm PER SQUARE FOOT. SWINGING DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.5 cfm PER SQUARE FOOT.

RECESSED LUMINARIES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED & UNCONDITIONED SPACES BY BEING IC RATED & LABELED WITH ENCLOSURES THAT ARE SEALED OR GASKETED TO PREVENT AIR LEAKAGE TO THE CEILING CAVITY OR UNCONDITIONED SPACE.

			ĺ	nsulation 4	Fenestration	Requireme	ents By C	omponent°		
Climate Zone	Fenestration u-factorb		Glazed Fenestration SHGC <sup>b,e</sup>	Ceiling R-Value	Wall Wood h Framing R-Value	Mass Wall R-Value	Floor 9 R-Value	Basement <sup>c</sup> Wall R-Value	Slab d Perimeter R-Value \$ Depth	Crawl <sup>c</sup> Space R-Value
7 \$ 8	0.30	0.55	NR	R-49 w/	R-27 cavity or R-20+5c.i.	19/21	38	15/19	R-10, 4 ft. deep	15/19
а	less than th	ne label or		kness of t	are maximun he insulation,				•	
b	The fenestration U-factor column excludes skylights. The SGHC column applies to all glazed fenestration									ation.
С	insulation at	the inter	rior of the b	asement u	athing on the uall. "15/19" sh	nall be per	mitted to	be met w	ith R-13 cav	ity

|Or insulation sufficient to fill the framing cavity, R-19 minimum "Cavity" insulation shall be entirely within the wall cavity, "20+5" means R-20 cavity insulation plus R-5

The second R-Value applies when more than half the insulation is on the interior of the wall mass.





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ISSUE DATES

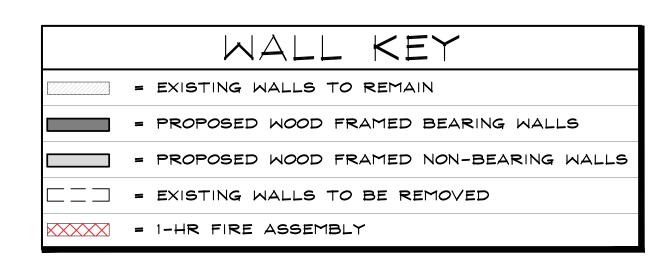
10 . 26 . 23 REVIEW SE 11 . 3 . 23 PERMIT SE 11 . 20 . 23 PERMIT SET

DRAWN BY: SWS REVIEWED BY: CWM PROJECT # 23103 ARCHITECTURAL NOTES & CODE STUDY

# RESIDENTIAL PRESCRIPTIVE ENERGY CODE STANDARDS

ı			Insulation & Fenestration Requirements By Component <sup>o</sup>										
	Clima Zone	te Fenestration u-factorb	Skylight <sup>b</sup> u-factor	Glazed Fenestration SHGC <sup>b,e</sup>	Ceiling R-Value	Wall Wood h Framing R-Value	Mass Wall R-Value	Floor 9 R-Value	Basement <sup>c</sup> Wall R-Value	Slab d Perimeter R-Value \$ Depth	Crawl <sup>c</sup> Space R-Value		
	7 \$ 8	0.30	0.55	NR	R-49 w/	R-27 cavity or R-20+5c.i.	19/21	38	15/19	R-10, 4 ft. deep	15/19		
	а	less than th	R-Values are minimums. U-factors \$ SGHC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed R-value of the insulation shall not be less than the R-value specified in the table.										
	b	The fenestr	The fenestration U-factor column excludes skylights. The SGHC column applies to all glazed fenestration.										
	С	insulation at insulation or	"15/19" means R-15 continuous insulated sheathing on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall. "15/19" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulated sheathing on the interior or exterior of the home.										
	d	insulation R	R-5 shall be provided under the full slab area of a heated slab in addition to the required slab edge insulation R-vaule for slabs as indicated in the table. The slab edge insulation for heated slabs shall not be required to extend below the slab.										
F		Or insulation	a sufficien	t to fill the	Or insulation sufficient to fill the framing covity R-19 minimum								

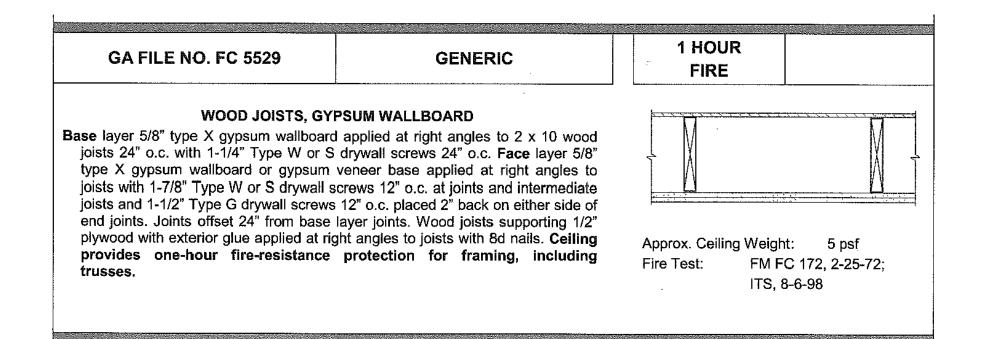
Z:\2023\23103\_AB - 3367 Après Ski Renovation\Drawings\23103\_ArchSheets.dwg, 11/20/2023 4:37:27 PM, AutoCAD PDF (General Documentation).pc3



# NOTE

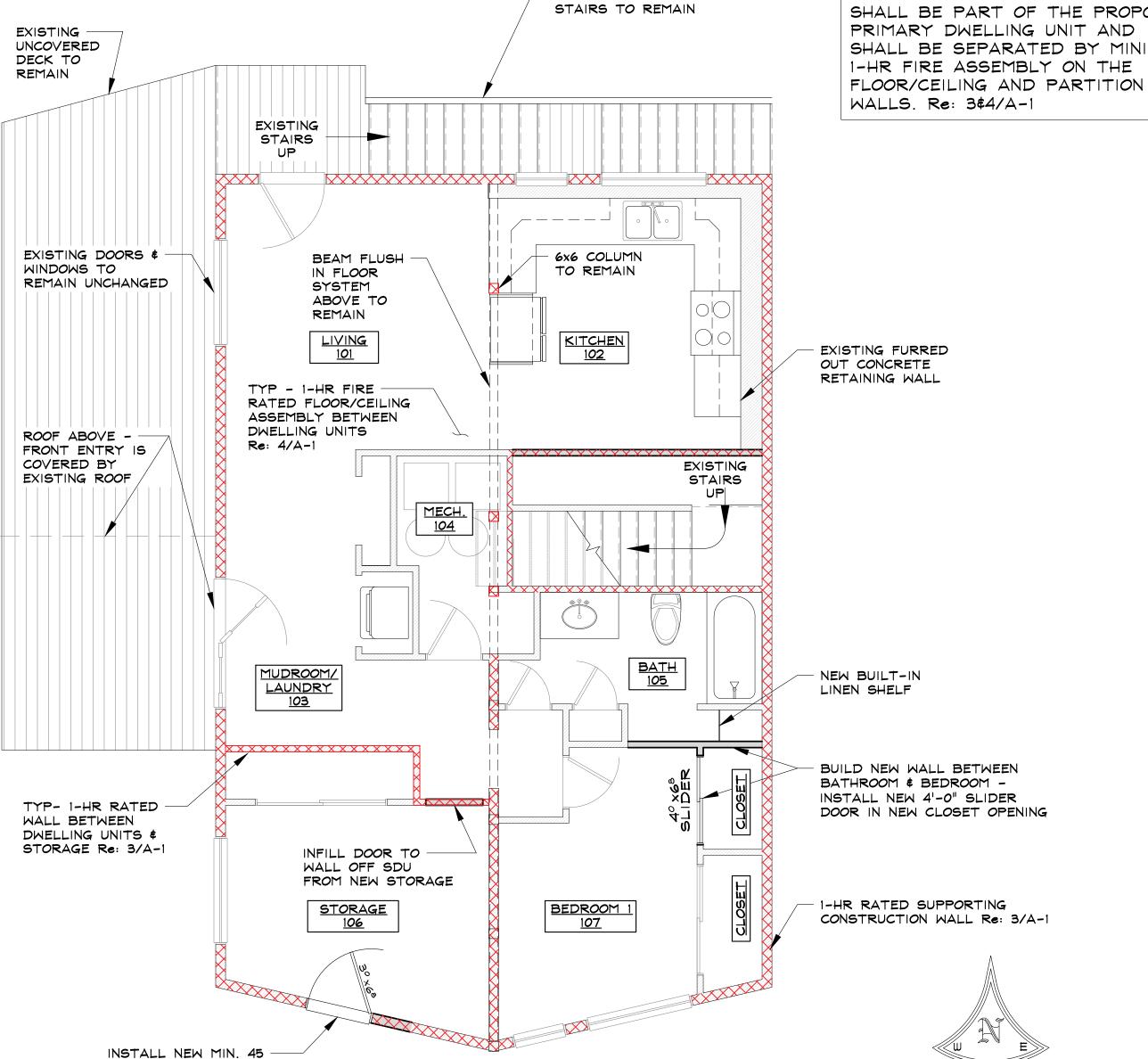
TYPICAL AT ALL EXTERIOR WALLS AND LOAD BEARING STRUCTURE ON LOWER LEVEL - 1-SIDED, 1-HR FIRE RATED WALL WILL BE A CALCULATED TYPE ASSEMBLY CONSISTING (2) LAYERS OF %" TYPE X GYPSUM STAGGERED 24" AT SEAMS EA. LAYER PER IBC TABLE 722.2.1.4(2) - CONFIRM EXISTING WALL COVERINGS AND REPORT TO E.O.R - IF THERE IS AN EXISTING LAYER OF %" GYPSUM DRYWALL, ONLY (1) ADDITIONAL LAYER OF %" TYPE-X DRYWALL REQUIRED

USE HILTI FS ONE FIRESTOP SEALANT ON ALL PENETRATIONS THROUGH FIRE ASSEMBLIES (WALLS AND CEILINGS) INCLUDING, BUT NOT LIMITED TO, VENTS, MECHANICAL DUCTS, ELECTRICAL CONDUIT, AND PLUMBING. INSTALL PER MANUFACTURERS RECOMENDATIONS





THE UPPER LEVELS OF THIS HOME SHALL BE PART OF THE PROPOSED PRIMARY DWELLING UNIT AND SHALL BE SEPARATED BY MINIMUM



EXISTING EXTERIOR

GA FILE NO. WP 3514

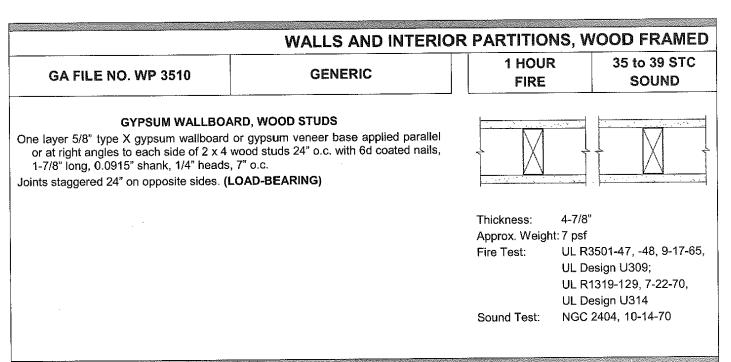
GYPSUM WALLBOARD, WOOD STUDS

One layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of 2 x 4 wood studs 16" o.c. with 11/4" Type W drywall screws 12" o.c.

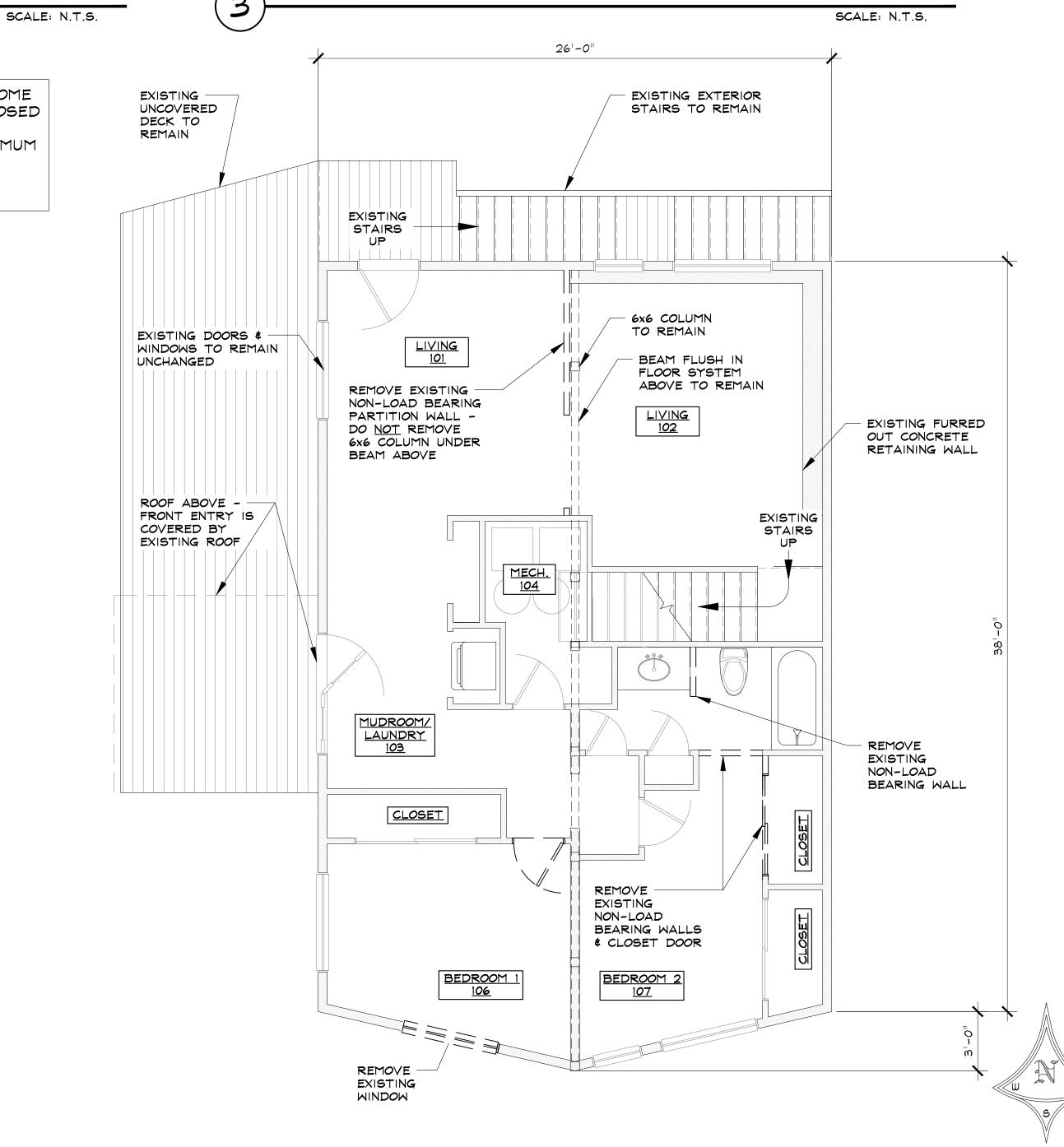
Joints staggered 16" on opposite sides. (LOAD-BEARING)

Thickness: 43/4"
Approx. Weight: 7 psf
Fire Test: SWRI 01-4511-619, 8-19-92
Sound Test: See WP 3520
(G&H NG-246FT, 7-2-65)

# OR



1-HR. FIRE RATED WALL ASSEMBLY OPTIONS



EXISTING & DEMO LOWER LEVEL FLOOR PLAN



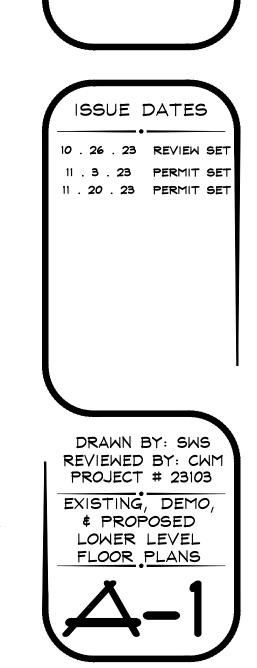




MARNO SDU RENOVATIO

3361 APRES SKI WAY

STEAMBOAT SPRINGS, COLORADO



PROPOSED LOWER LEVEL FLOOR PLAN (SDU)

MIN. FIRE RATED DOOR

PER IBC TBL. 716.5 TO

PROVIDE ACCESS TO

NEW STORAGE

650 SQ. FT. SDU THIS PLAN