

PREScriptive ENERGY CODE COMPLIANCE

PREScriptive REQUIREMENTS PER TABLES R402.1 AND R402.1.3

ALL CLIMATE ZONES (TABLE R402.1.1)		
	R-VALUE	U-FACTOR
FENESTRATION U-VALUES	N/A	0.30
SKYLIGHT U-FACTOR	N/A	0.50
GLAZING FENESTRATION SHGC	N/A	N/A
CEILING	60	0.024
ABOVE GRADE WALLS	20+5 OR 13+10	0.056
FLOOR	30	0.029
SLAB R-VALUE & DEPTH	10, 4 FT.	F=0.54
BELOW GRADE WALLS	10/15/21 INT + 5TB	0.042
BELOW GRADE 2' DEPTH WALL	U-FACTOR = 0.042	SLAB F-FACTOR = 0.59
BELOW GRADE 3.5' DEPTH WALL	U-FACTOR = 0.040	SLAB F-FACTOR = 0.54
BELOW GRADE 1' DEPTH WALL	U-FACTOR = 0.035	SLAB F-FACTOR = 0.50

EACH DWELLING UNIT IN A RESIDENTIAL BUILDING SHALL COMPLY WITH SUFFICIENT OPTIONS FROM TABLE R402.2 (FUEL NORMALIZATION CREDITS) AND TABLE 404.3 (ENERGY CREDITS) TO ACHIEVE THE FOLLOWING MINIMUM NUMBER OF CREDITS.

- SMALL DWELLING UNIT: 5 CREDITS  
DWELLING UNITS LESS THAN 1500 S.F. IN CONDITIONED FLOOR AREA WITH LESS THAN 300 S.F. OF FENESTRATION AREA. ADDITIONS TO EXISTING BUILDING THAT ARE GREATER THAN 500 S.F. OF HEATED FLOOR AREA LESS THAN 1500 S.F.
- MEDIUM DWELLING UNIT: 8 CREDITS  
ALL DWELLING UNITS THAT ARE NOT INCLUDED IN #1, #3 OR #4
- LARGE DWELLING UNIT: 9 CREDITS  
DWELLING UNITS EXCEEDING 5,000 S.F. OF CONDITIONED FLOOR AREA
- DWELLING UNITS SERVING GROUP R-2 OCCUPANCIES: 4.5 CREDITS  
SEE SECTION R402.1 AND RESIDENTIAL BUILDING IN SECTION R202 FOR GROUP R-2 SCOPE
- ADDITIONS 150 SQUARE FEET TO 500 SQUARE FEET: 2.0

SUMMARY OF TABLE R402.2		
HEATING OPTIONS	FUEL NORMALIZATION DESCRIPTIONS	CREDITS
4	FOR HEATING SYSTEM USING A HEAT PUMP THAT MEETS FEDERAL STANDARD FOR THE EQUIPMENT LISTED IN TABLE C403.3.2(2) OR C403.3.2(4) OR AIR TO WATER HEAT PUMP UNITS THAT ARE CONFIGURED TO PROVIDE BOTH HEATING AND COOLING AND ARE RATED IN ACCORDANCE WITH AHRI 550/510	3.0
ENERGY OPTIONS	ENERGY CREDIT OPTION DESCRIPTIONS	CREDITS
3.1	DUCTLESS SPLIT SYSTEM HEAT PUMPS WITH NO ELECTRIC RESISTANCE HEATING IN THE PRIMARY LIVING AREAS. A DUCTLESS HEAT PUMP SYSTEM WITH A MINIMUM OF 4 (HSPF OF 10) SHALL BE SIZED AND INSTALLED TO PROVIDE HEAT TO ENTIRE DWELLING UNIT AT THE DESIGN OUTDOOR AIR TEMPERATURE. EXCEPTION: IN HOMES WITH TOTAL HEATING LOADS OF 24,000 OR LESS USING MULTI-ZONE MINI-SPLIT SYSTEMS WITH NOMINAL RATINGS OF 24,000 OR LESS, THE MINIMUM HSPF IS TO CLAIM THIS CREDIT SHALL BE 8.19 HSPF 2 (OR 9 HSPF).	2.0
TOTAL CREDITS		5.0

DOOR SCHEDULE				
QNTY.	SIZE	DESCRIPTION	REMARKS	
1	3'-0" X 6'-8"	SOLID CORE SINGLE	U=30	
2	6'-0" X 6'-8"	DOUBLE GLASS	U=30	
3	3'-0" X 6'-8"	INTERIOR SINGLE		
4	5'-0" X 6'-8"	DOUBLE BI-FOLD		
5	3'-0" X 6'-8"	SINGLE BI-FOLD		

WINDOW SCHEDULE				
QNT	SIZE	DESCRIPTION	REMARKS	U-VALUE
A	2	5'-0" X 5'-0"	HORIZ. SLIDER	0.30
B	1	4'-6" X 5'-0"	HORIZ. SLIDER	0.30

EGRESS = R3101 EMERGENCY ESCAPE AND RESCUE REQUIRED.  
WHERE EMERGENCY ESCAPE AND RESCUE OPENINGS ARE PROVIDED THEY SHALL HAVE A MINIMUM NET CLEAR HEIGHT OF NOT MORE THAN 24 INCHES MEASURED FROM THE FINISHED FLOOR TO THE BOTTOM OF THE CLEAR OPENING.  
THE NET CLEAR OPENING DIMENSIONS REQUIRED BY THIS SECTION SHALL BE OBTAINED BY THE NORMAL OPERATION OF THE EMERGENCY ESCAPE AND RESCUE OPENING FROM THE INSIDE.  
OPENINGS SHALL OPEN DIRECTLY INTO A PUBLIC WAY, OR TO A YARD OR COURT THAT OPENS TO A PUBLIC WAY.  
R3101.1 MINIMUM OPENING AREA  
AN EMERGENCY ESCAPE AND RESCUE OPENING SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET.  
EXCEPTION: GRADE FLOOR OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5 SQUARE FEET.  
R3101.2 MINIMUM OPENING HEIGHT  
THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES.  
R3101.3 MINIMUM OPENING WIDTH  
THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES.  
R3101.4 OPERATIONAL CONSTRAINTS  
EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE.  
SAFETY = SAFETY GLAZING PER IRC 308.4

- ① = 110 VOLT INTERCONNECTED SMOKE DETECTOR WITH BATTERY BACK-UP  
② = CARBON MONOXIDE ALARM REQUIRED OUTSIDE EACH SEPARATE SLEEPING AREA  
③ = HEAT DETECTOR/ALARM RATED FOR AMBIENT OUTDOOR TEMPERATURES AND HUMIDITY  
CONFIRM OR UPGRADE INTIRE DWELLING UNIT WITH SMOKE AND CARBON MONOXIDE ALARMS AS REQUIRED FOR NEW DWELLINGS

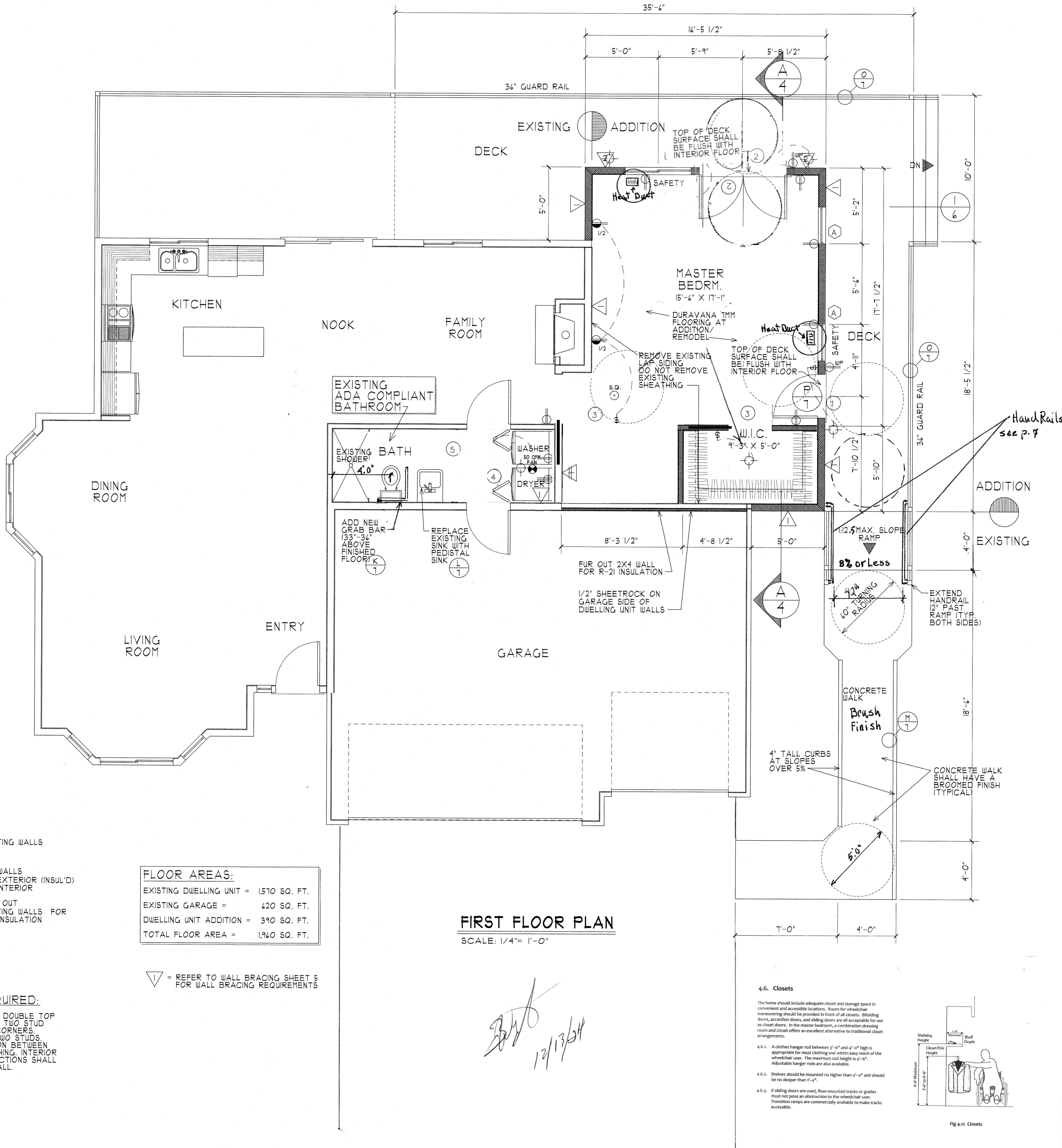
INTERMEDIATE FRAMING REQUIRED:

STUDS FRAMED ON 14 INCH CENTERS WITH DOUBLE TOP PLATES AND SINGLE BOTTOM PLATE. USE TWO STUD PLATES OR OTHER MEANS OF FULLY INSULATING CORNERS. EACH OPENING SHALL BE FRAMED WITH TWO STUDS. HEADERS PER PLANS WITH R-10 INSULATION BETWEEN THE HEADER AND THE EXTERIOR SHEATHING. INTERIOR PARTITION WALL/EXTERIOR WALL INTERSECTIONS SHALL BE FULLY INSULATED IN THE EXTERIOR WALL.

- = EXISTING WALLS  
— = NEW WALLS  
— = 2X4 EXTERIOR (INSUL'D)  
— = 2X4 INTERIOR  
— = FURR OUT EXISTING WALLS FOR R-21 INSULATION

FLOOR AREAS:	
EXISTING DWELLING UNIT =	1,510 SQ. FT.
EXISTING GARAGE =	420 SQ. FT.
DWELLING UNIT ADDITION =	390 SQ. FT.
TOTAL FLOOR AREA =	1,940 SQ. FT.

▽ = REFER TO WALL BRACING SHEET 5 FOR WALL BRACING REQUIREMENTS



FIRST FLOOR PLAN

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

4.6. Closets

The home should include adequate closet and storage space in convenient and accessible locations. Room for wheelchair maneuvering should be provided in front of all closets. Blending as closet doors. In the master bedroom, a combination dressing room and closet offers an excellent alternative to traditional closet arrangements.

4.6.1. A clothes hanger rod between 7'-0" and 4'-0" high is appropriate for most clothing and with easy reach of the wheelchair user. The maximum rod height of 4'-0". Adjustable hanger rods are also available.

4.6.2. Shelves should be mounted no higher than 4'-0" and should be no deeper than 1'-0".

4.6.3. If sliding doors are used, floor-mounted tracks or guides must not pose an obstruction to the wheelchair user. Transition ramps are commercially available to make tracks accessible.

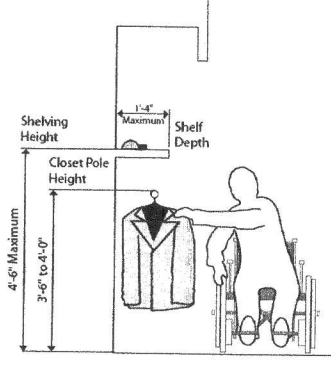


Fig 4.11 Closets

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SCALE : AS NOTED

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SHEET :