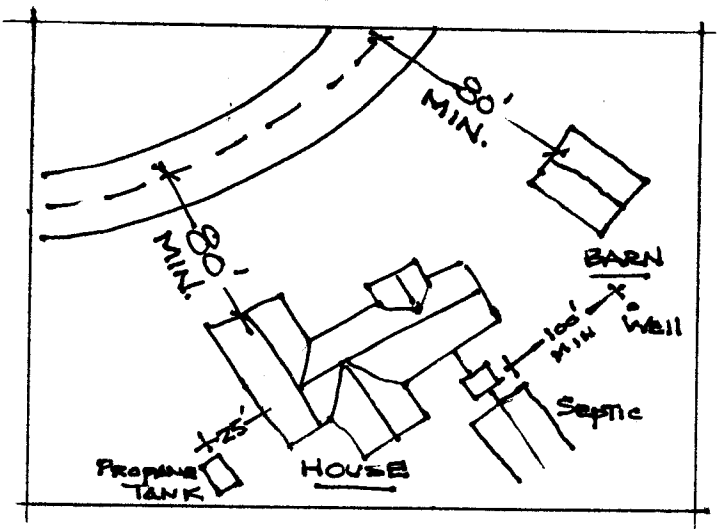




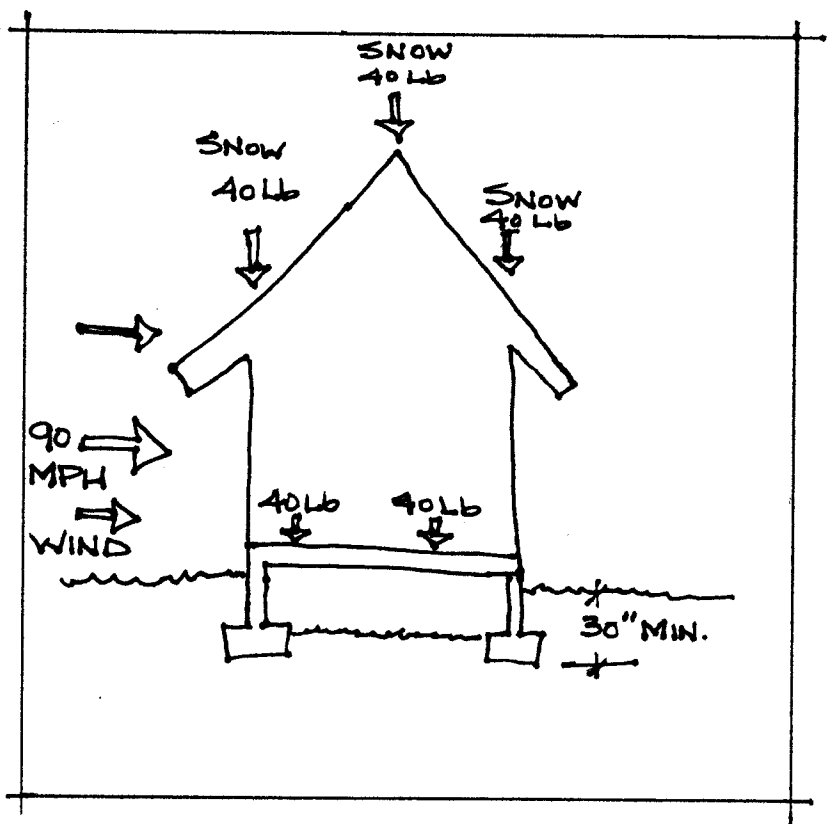
Franklin County, Idaho
Residential
Builders Handbook

Source: International Residential Code

BUILDING PLANNING & SITING



STREET SETBACK



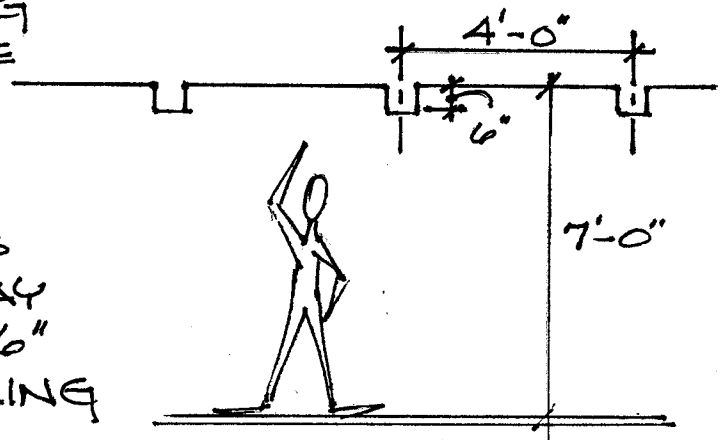
- ROOF LOAD: 40 LB SNOW LOAD (CANYONS HIGHER)
- SEISMIC ZONE: "D 1"
- WIND SPEED: 90 MPH. EXPOSURE "C"
- FROST DEPTH: 30"
- FLOOR LOAD: 40LB LIVE LOAD (30 LB IN THE BEDROOMS.)

CONSTRUCTION CRITERIA

R 305.1

MINIMUM FINISHED CEILING HEIGHT IN ANY HABITABLE ROOM IS 7'-0"

EXCEPTION:
BEAMS SPACED NOT LESS THAN 4'-0" ON CENTER MAY PROJECT NOT MORE THAN 6" BELOW THE FINISHED CEILING



R 308.4

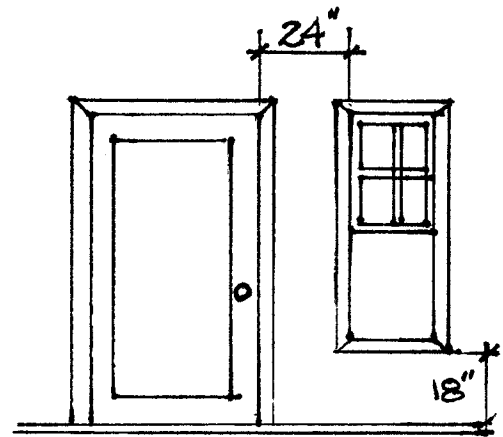
TEMPERED GLASS IS REQUIRED:

1) ALL WINDOWS SURROUNDING BATHING FACILITIES IF THE SILL IS LESS THAN 60" OFF THE FLOOR.

2) WINDOWS WITHIN 24" OF EITHER SIDE OF AN EXTERIOR DOOR

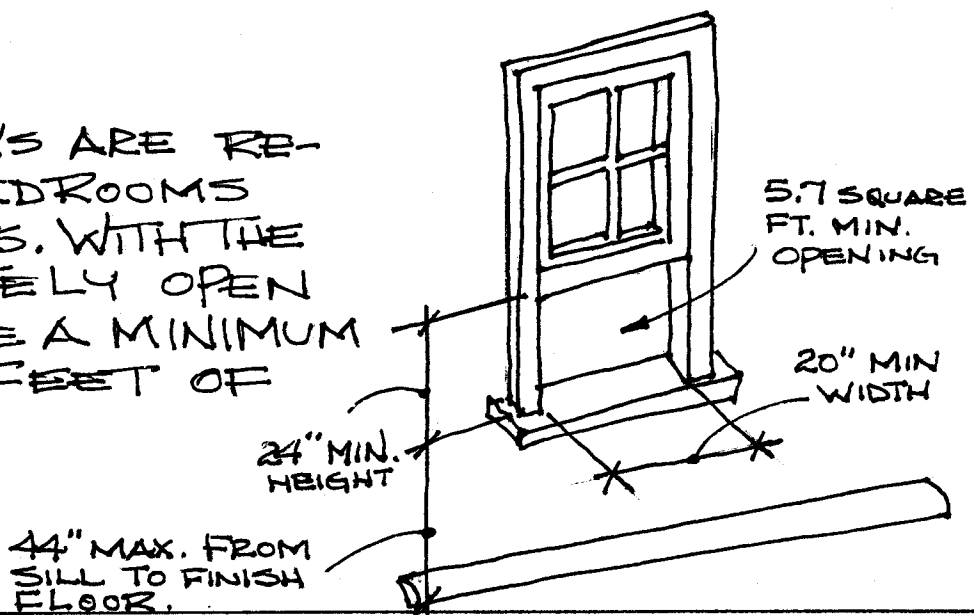
3) WINDOWS WITH A SILL HEIGHT LESS THAN 18" OFF THE FLOOR

4) WINDOWS WITHIN A 5' ARC OF ANY STAIR BOTTOM TREAD.



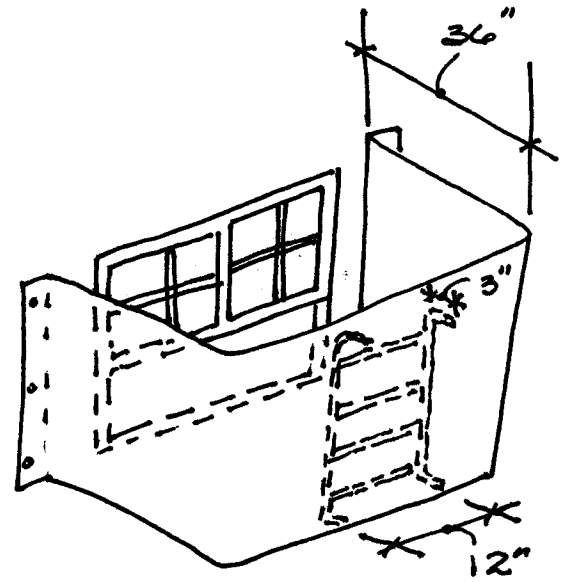
R 310.1

EGRESS WINDOWS ARE REQUIRED IN ALL BEDROOMS AND BASEMENTS. WITH THE WINDOW COMPLETELY OPEN THERE SHALL BE A MINIMUM OF 5.7 SQUARE FEET OF EGRESS AREA



R 310.2

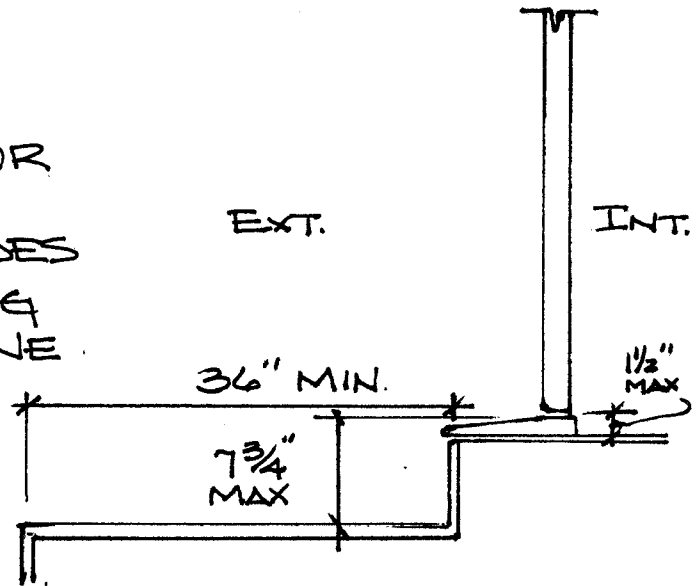
WINDOW WELLS SHALL PROJECT A MINIMUM OF 36" OUT FROM THE BASEMENT WALL. WINDOW WELLS THAT ARE DEEPER THAN 44" SHALL HAVE A LADDER 12" WIDE, PROJECTING OUT 3" AND PERMANENTLY ATTACHED.



R. 311.4.3.

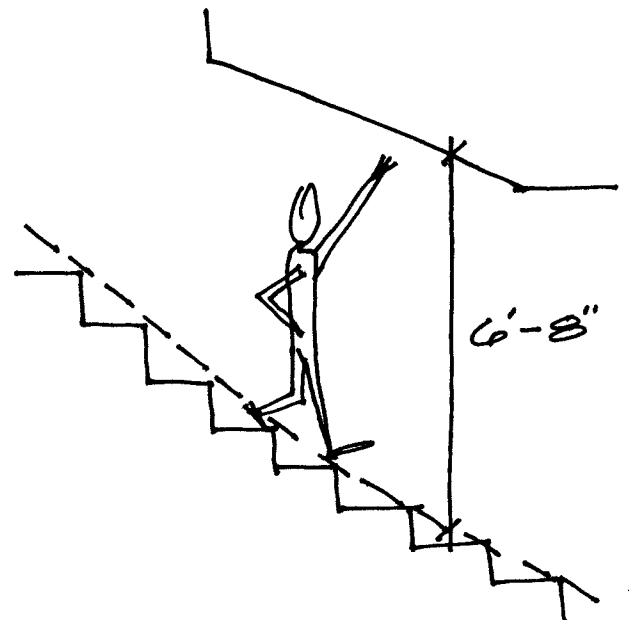
THE MAIN ENTRANCE DOOR SHALL HAVE A LANDING (MIN. 36" X 36") ON BOTH SIDES OF THE DOOR. THE LANDING ON THE EXT. SIDE MAY BE ONE STEP DOWN (MAX. 7 3/4")

(ALL OTHER EXT. DOORS DO NOT NEED AN EXT. LANDING IF THEY HAVE TWO OR FEWER STEPS DOWN TO GRADE LEVEL)



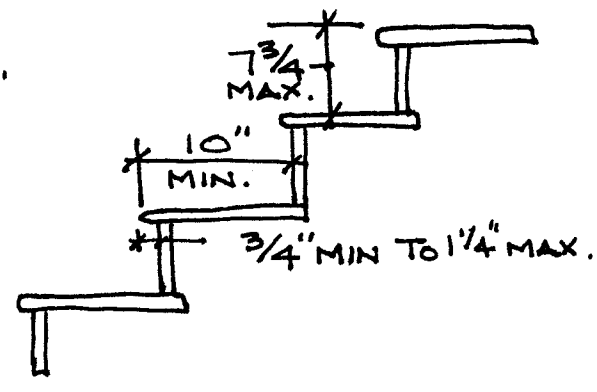
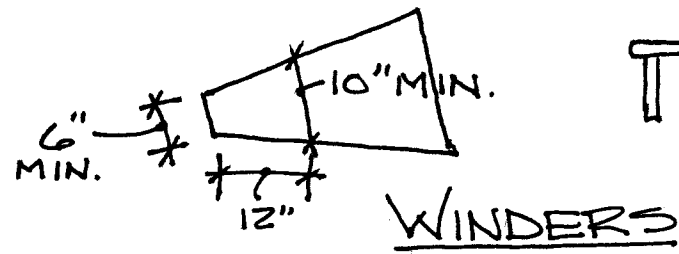
R 311.5.2.

MINIMUM HEADROOM IN ALL PARTS OF THE STAIRWAY SHALL NOT BE LESS THAN 6'-8" MEASURED VERTICALLY FROM THE SLOPED PLANE ALONG THE STAIR TREAD NOSE.



R 311.5.3.1.

MAXIMUM STAIR RISER HEIGHT: $7\frac{3}{4}$ "
MINIMUM STAIR TREAD DEPTH: 10"
STAIR NOSING DISTANCE: MIN. $\frac{3}{4}$ " , MAX. $1\frac{1}{4}$ "

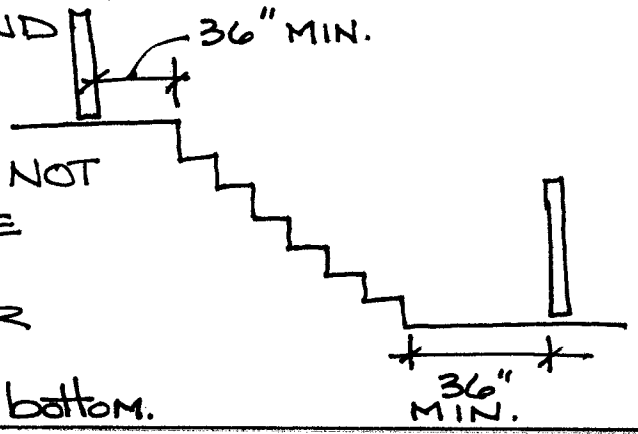


R 311.5.4. INTERIOR STAIR LANDINGS

STAIRWAY LANDINGS (MIN. 36"x36")
ARE REQUIRED AT THE TOP AND
BOTTOM OF EACH STAIRWAY.

EXCEPTION: THE TOP LANDING IS NOT
REQUIRED IF THE DOOR AT THE
TOP SWINGS AWAY FROM THE
STEPS, OR, THERE IS NO DOOR
AT ALL.

NOTE: A DOOR IS NOT REQUIRED AT THE BOTTOM.

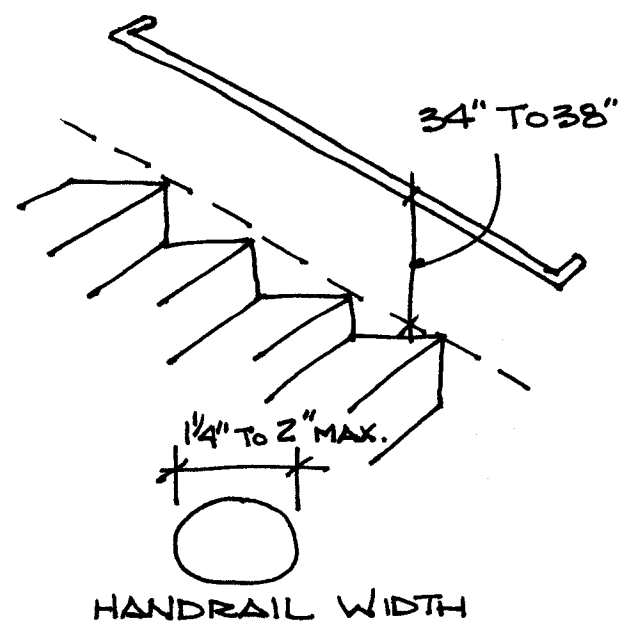


R 311.5.6

HANDRAILS ARE REQUIRED ON
AT LEAST ONE SIDE OF EACH
RUN OF STAIRS WITH FOUR OR
MORE RISERS.

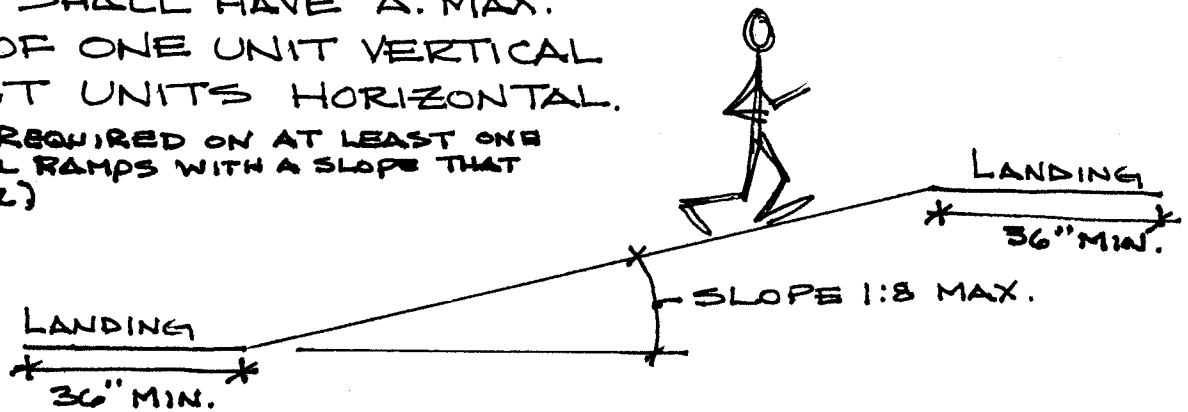
HANDRAIL HEIGHT SHALL BE
BETWEEN 34" TO 38" ABOVE
STAIR NOSE.

HANDRAIL ENDS SHALL
TERMINATE INTO THE WALL AT
THE TOP AND BOTTOM.



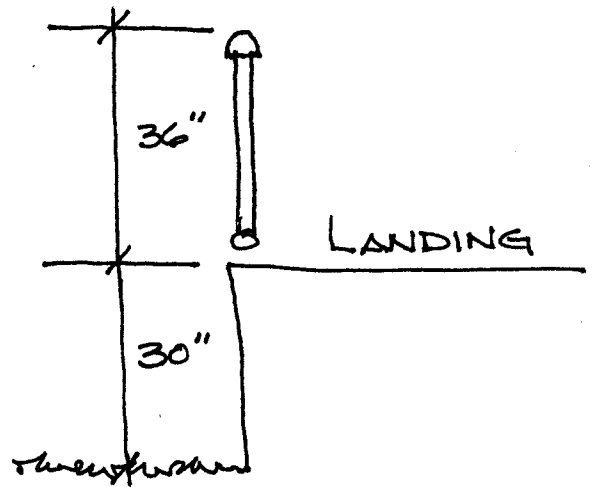
R 311.6.1.

RAMPS SHALL HAVE A MAX. SLOPE OF ONE UNIT VERTICAL IN EIGHT UNITS HORIZONTAL. (HANDRAIL REQUIRED ON AT LEAST ONE SIDE OF ALL RAMPS WITH A SLOPE THAT EXCEEDS 1:12.)



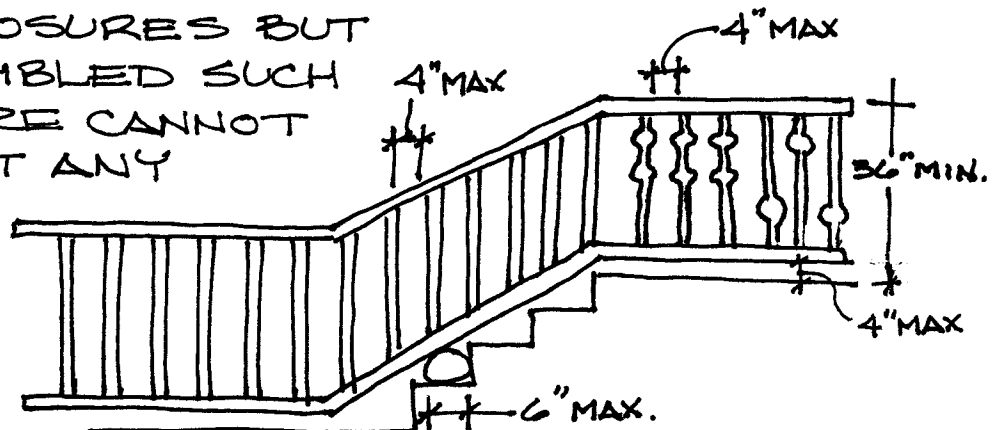
R 312.1.

ANY PORCH, DECK, BALCONY OR RAISED FLOOR LOCATED MORE THAN 30" ABOVE THE FLOOR OR FINISHED GRADE SHALL HAVE A GUARD RAIL NOT LESS THAN 36" HIGH.



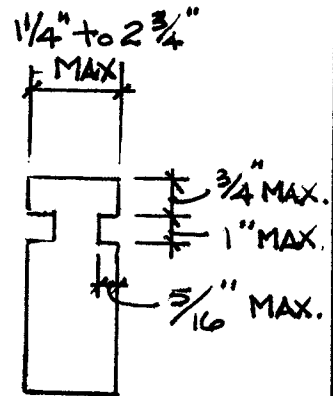
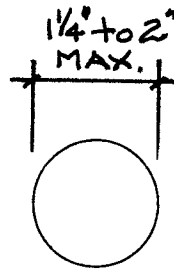
R 312.2

GUARDS MAY HAVE ORNAMENTAL SPINDLES OR CLOSURES BUT MUST BE ASSEMBLED SUCH THAT A 4" SPHERE CANNOT PASS THROUGH AT ANY POINT.



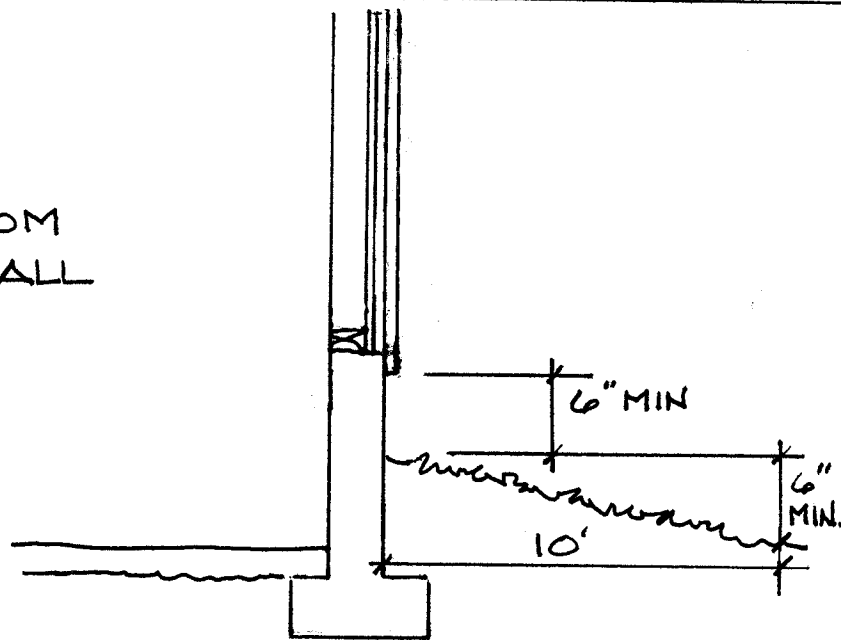
R 311.5.4.3.

HANDRAIL GRIP SIZE.



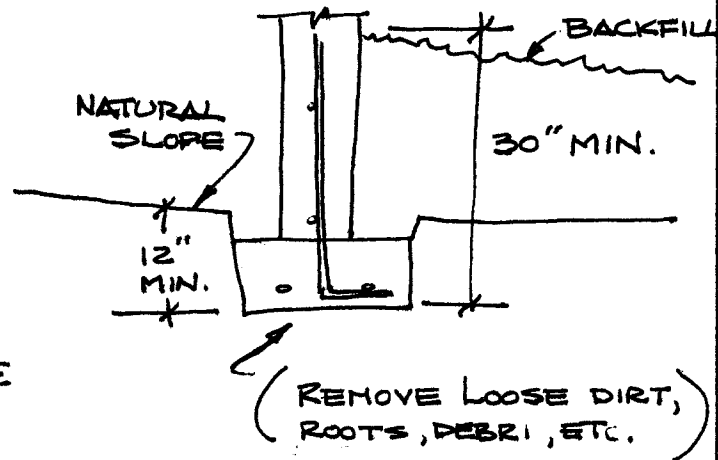
R 401.3

FINAL GRADE AWAY FROM FOUNDATION WALLS SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10'

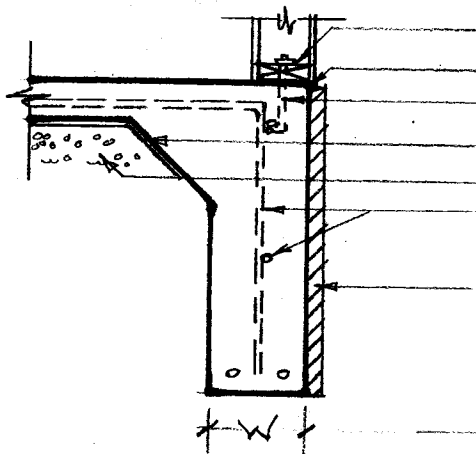
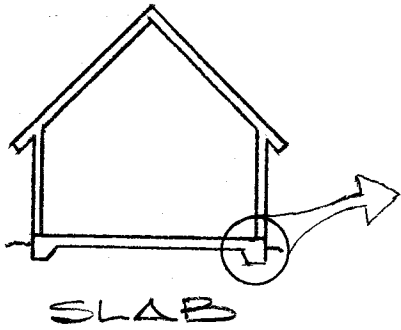


R 403.1

ALL FOOTINGS SHALL BE SUPPORTED ON UN-DISTURBED NATURAL SOIL OR ENGINEERED FILL AND ON UNFROZEN GROUND EXCAVATION SHALL BE A MINIMUM OF 12" BELOW THE SURFACE.

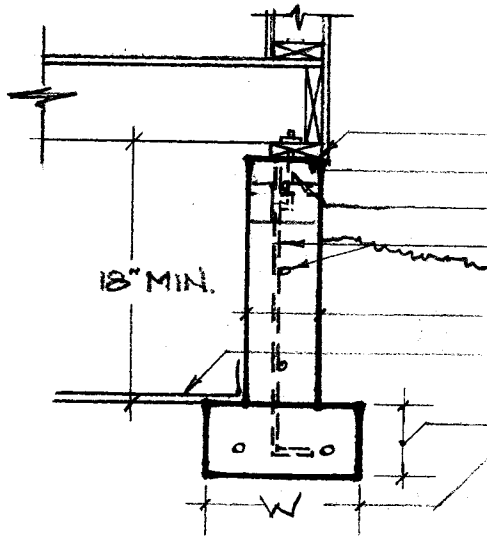
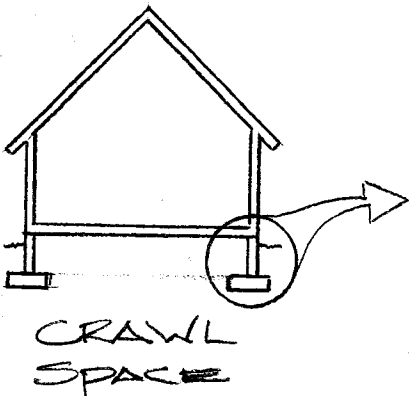


FOUNDATIONS



PRESSURE TREATED
SILL SEALER
1/2" x 10" J-BOLT @ 32" O.C.
6 MIL VISQUEEN
GRAVEL (4 INCHES)
1/2" REBAR 24" O.C. BOTH
WAYS
INSULATION: RIGID R-10

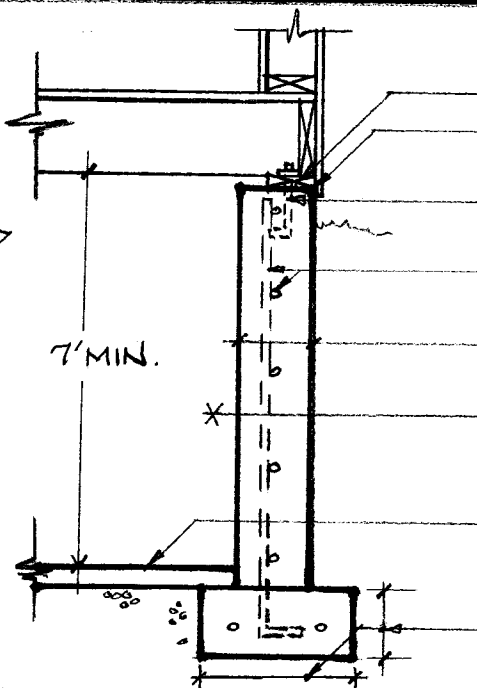
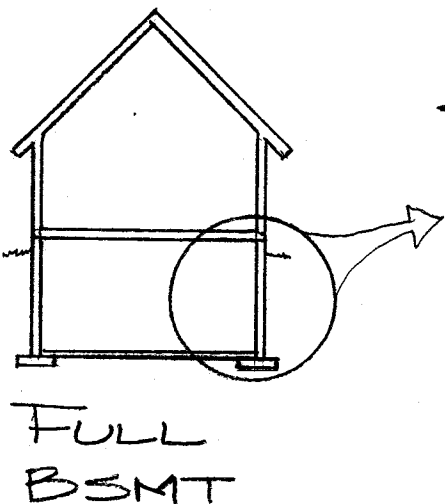
DEPENDS ON NO# OF
STORIES. MINIMUM 12"



INSULATION: R-30 IN
THE FLOOR WITH
VENTS IN THE WALLS

PRESSURE TREATED
SILL SEALER
1/2" x 10" J-BOLTS @ 32" O.C.
1/2" REBAR 24" O.C. BOTH
WAYS
MINIMUM 6"
6 MIL VISQUEEN

DEPENDS ON NO# OF
STORIES AND SOIL
CONDITIONS. MINIMUM
6" DEPTH & 12" WIDTH.



PRESSURE TREATED
SILL SEALER

1/2" x 10" ANCHOR BOLTS
@ 32" O.C.
1/2" REBAR 24" O.C. BOTH
WAYS
8" MINIMUM

INSULATION: R-11

FLOOR SLAB

DEPENDS ON NO# OF
STORIES & SOIL
CONDITIONS. SEE ABOVE

WINTER CONCRETE TEMPERATURE GUIDE

TEMPERATURE - ABOVE 32°

- No special requirements

TEMPERATURE – DAILY AVERAGE 20° UP TO A HIGH OF 32°

- Use 5 bag concrete with calcium accelerator
- Cover or protect*
- Allow 3 days cure time

TEMPERATURE – DAILY AVERAGE 10° UP TO A HIGH OF 20°

- Use 6 bag concrete with non-calcium accelerator
- Cover or protect*
- Allow 3 days cure time

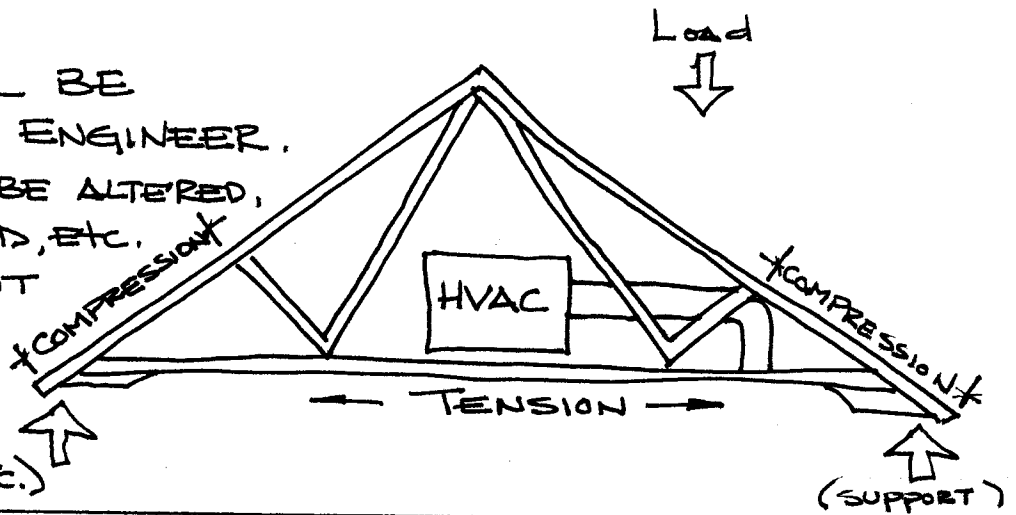
TEMPERATURE – DAILY AVERAGE BELOW 10°

- HEAT

* Covering or protecting can be done by either: 1) wood forms on sides and straw or insulation on top or 2) insulation blanket covers.

R 502.11

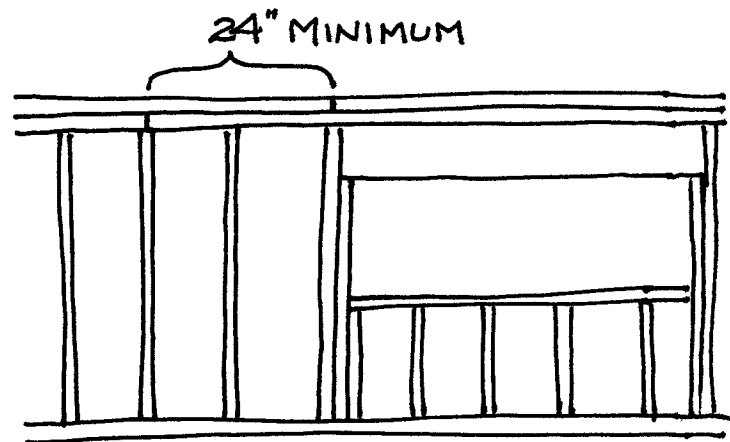
TRUSSES SHALL BE DESIGNED BY AN ENGINEER. TRUSSES SHALL NOT BE ALTERED, CUT, NOTCHED, DRILLED, ETC. ADDITIONAL LOADS NOT DESIGNED ORIGINALLY ARE NOT PERMITTED. (I.E., HVAC SYSTEMS, WATER HEATERS, ETC.)



R 602.3.2

END JOINTS IN TOP PLATES SHALL BE OFFSET AT LEAST 24".

MAXIMUM STUD SPACING
 2x4 - 16" O.C.
 2x6 - 24" O.C.



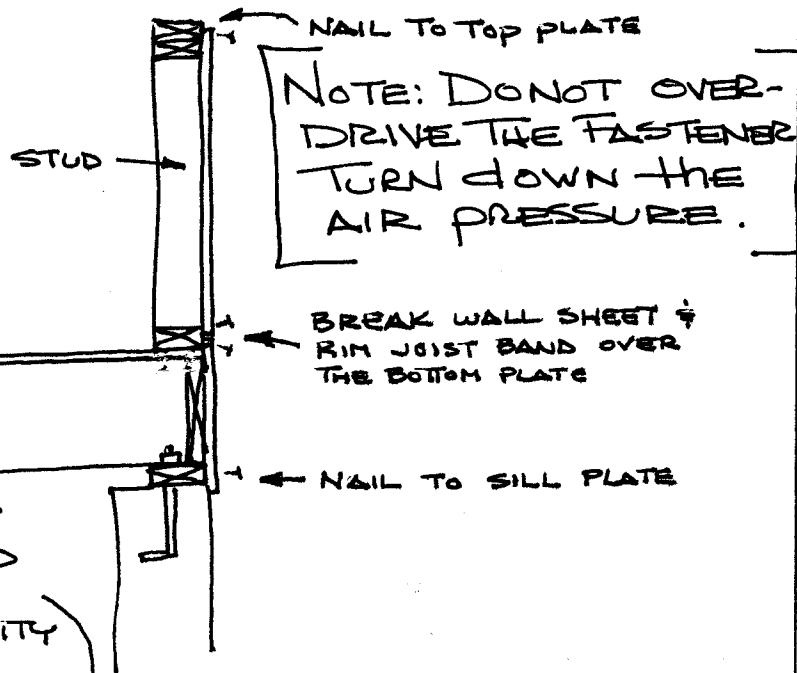
R 602.3(1)

EXTERIOR SHEATHING NAILING PATTERNS

NAILS - 6" O.C. SHEET EDGES
 12" O.C. IN THE FIELD

STAPLES - 4" O.C. SHEET EDGES
 8" O.C. IN THE FIELD

(MAINTAIN SHEATHING INTEGRITY FROM TOP PLATE TO SILL PLATE REGARDLESS OF NUMBER OF FLOORS)



R 806.2

ROOF VENTILATION:

TOTAL NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1 SQ.FT. VENTILATING OPENING TO 300 SQ.FT. OF SPACE BEING VENTILATED

(NOTE: CONTINUOUS RIDGE VENTS ARE AN ACCEPTED SUBSTITUTE)

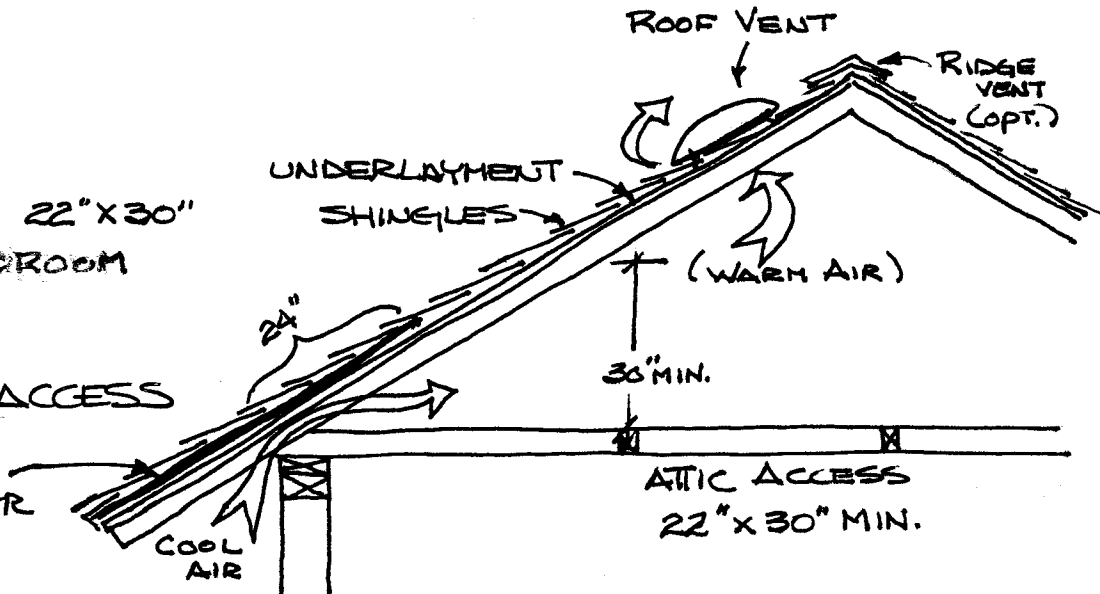
R 807.1

ATTIC ACCESS:

MINIMUM SIZE IS 22" X 30" WITH A 30" HEADROOM ABOVE.

CRAWLSPACE ACCESS
18" X 24"

ICE BARRIER



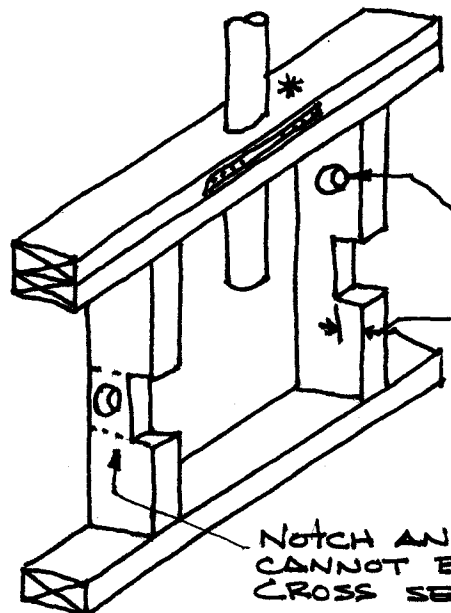
R 905

ROOF COVERINGS:

- 1) ASPHALT SHINGLES SHALL ONLY BE USED ON ROOFS WITH SLOPES OF 2/12 OR GREATER. ROOF SLOPES 2/12 TO 4/12 SHALL HAVE A DOUBLE UNDERLAYMENT.
- 2) AN ICE BARRIER IS REQUIRED AT THE EAVES EDGE TO A POINT 24" INSIDE THE EXTERIOR WALL LINE. (NOT REQUIRED ON DETACHED ACCESSORY STRUCTURES)
- 3) VALLEYS SHALL BE LINED MINIMUM 36" WIDE WITH ROLLED ROOFING OR ICE BARRIER. (METAL 24" WIDE)

R602.6

DRILLING & NOTCHING
STUDS & PLATES
(BEARING WALLS)



* IF A BORE HOLE EXCEEDS 50% OF PLATE WIDTH A 16 G. GALVANIZED PLATE 1/2" X 18" MIN. FASTENED WITH 8-16d NAILS EACH SIDE OF THE BORE SHALL BE ADDED.

BORED HOLE CANNOT EXCEED 40% OF STUD DEPTH.

NOTCH CANNOT EXCEED 25% OF STUD DEPTH

NOTCH AND BORE HOLES CANNOT BE IN THE SAME CROSS SECTION

R602.8

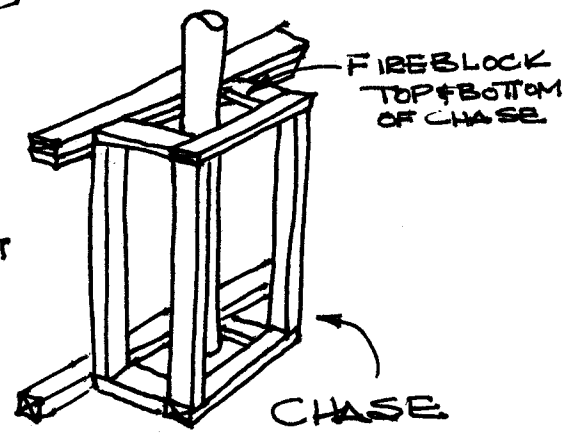
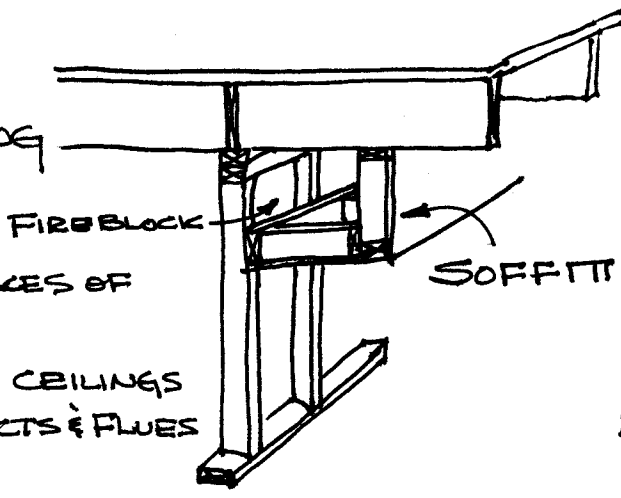
FIREBLOCKING

WHERE:

- 1) CONCEALED SPACES OF STUD WALLS
- 2) SOFFITS, DROP CEILINGS
- 3) CHASES FOR DUCTS & FLUES

MATERIAL:

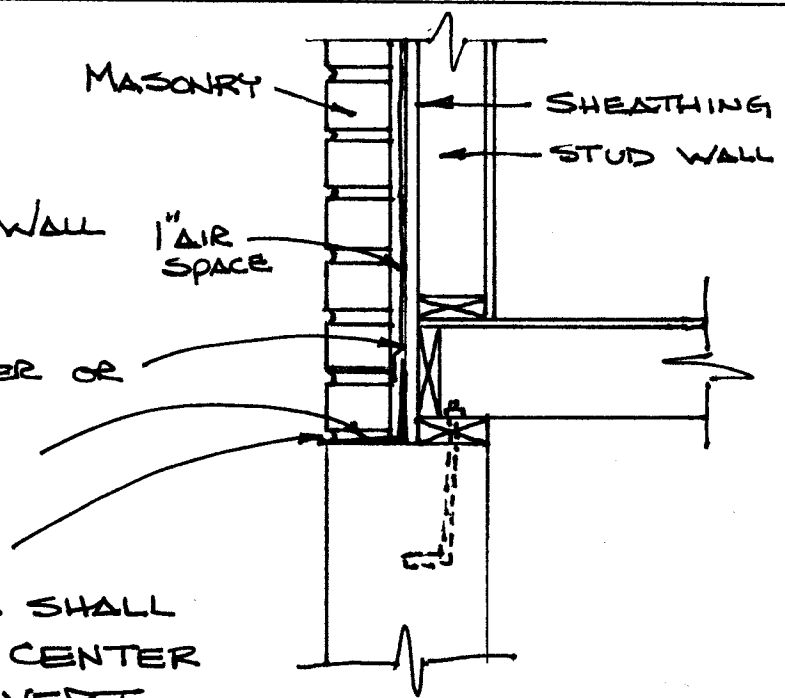
- 1) SOLID LUMBER, 3/4" PLYWOOD, SHEET METAL
- 1/2" SHEETROCK, UNFACED FIBERGLASS INSULATION



R703.7

MASONRY VENEER WALL
DETAIL MINIMUM
REQUIREMENTS:

- A) BUILDING PAPER OR HOUSE WRAP
- B) FLASHING
- C) WEEP HOLES MAX. 33" O.C.
- D) BRICK TIES SHALL BE 16" ± ON CENTER HORIZ. AND VERT.



N1102.1

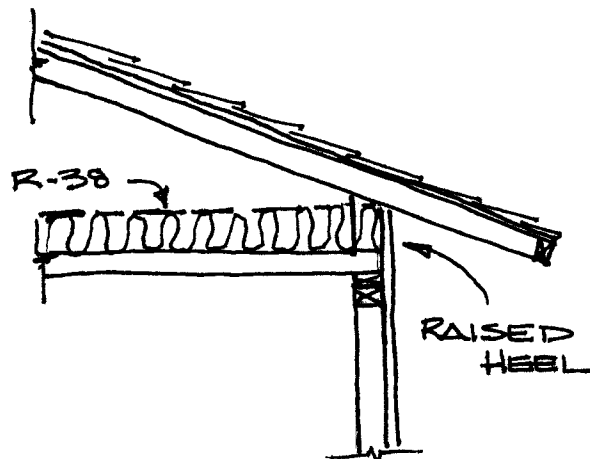
REQUIRED INSULATION LEVELS.

FRANKLIN COUNTY IS IN CLIMATE ZONE 6

BUILDING LOCATION		MAXIMUM GLAZING U-FACTOR [Btu / (hr · ft ² · °F)]	MINIMUM INSULATION R-VALUE [(hr · ft ² · °F) / Btu]				
Climate Zone	HDD		Ceilings	Walls	Floors	Basement walls	Slab perimeter R-value and depth
6	7,000-8,499	0.35	R-49	R-19	R-30	R-10	R-10, 4 ft.

CEILING EXCEPTION

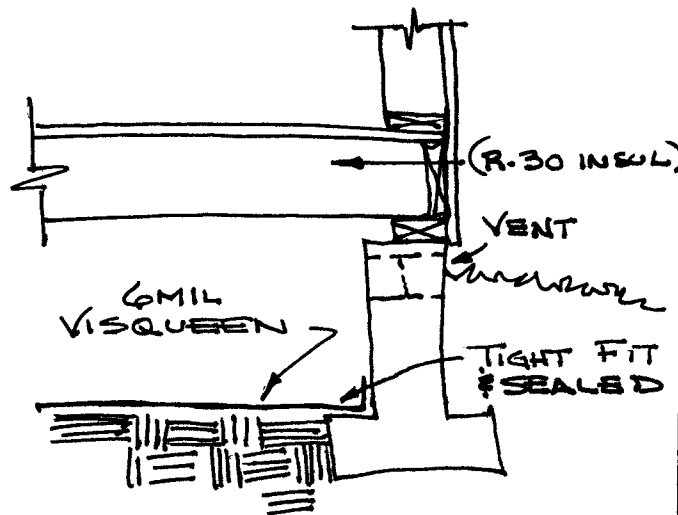
WHERE THE CONSTRUCTION TECHNIQUE ALLOWS THE REQUIRED R-VALUE OF CEILING INSULATION TO BE OBTAINED OVER THE WALL TOP PLATE, R-38 SHALL BE PERMITTED TO BE USED WHERE R-49 IS REQUIRED



N1102.1.7

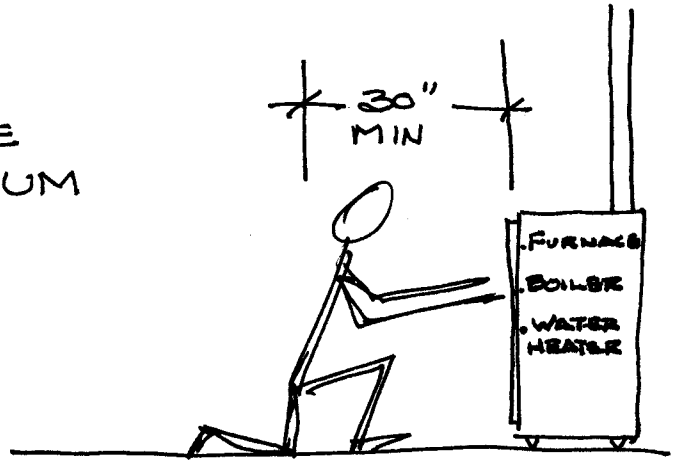
EXPOSED EARTH IN ALL CRAWL SPACES SHALL BE COVERED WITH A CONTINUOUS VAPOR RETARDER (6 MIL VISQUEEN, CLEAR OR BLACK)

CRAWLSPACE VENTILATION SHALL BE 1 SQ. FT. PER 300 SQ. FT OF FLOOR SPACE WITH 6 MIL VISQUEEN OVER DIRT.



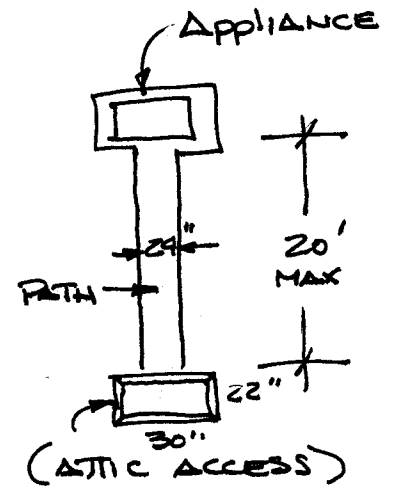
M1305.1

ALL APPLIANCES SHALL BE ACCESSIBLE WITH A MINIMUM OF 30" WORKING SPACE IN FRONT OF THE CONTROL PANELS.



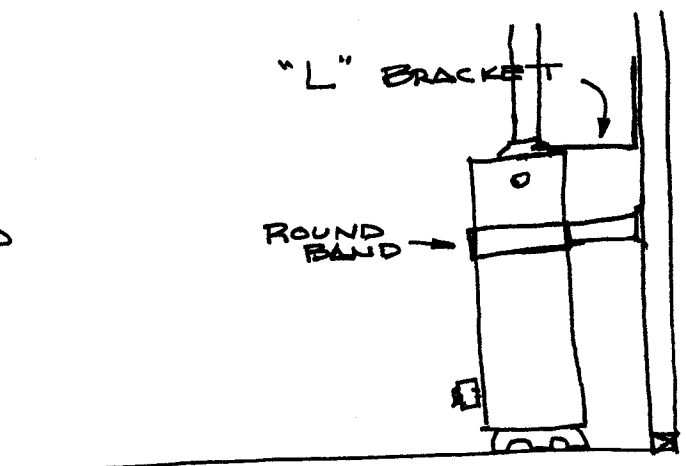
M1305.1.3

APPLIANCES IN ATTICS SHALL BE PROVIDED WITH AN OPENING LARGE ENOUGH TO REMOVE THE LARGEST APPLIANCE, BUT NOT LESS THAN 30" X 22" AND NOT MORE THAN 20' FROM THE OPENING. AN UNOBSTRUCTED SOLID FLOORED PASSAGEWAY MIN. 24" WIDE MUST LEAD FROM THE ATTIC OPENING TO THE APPLIANCE.



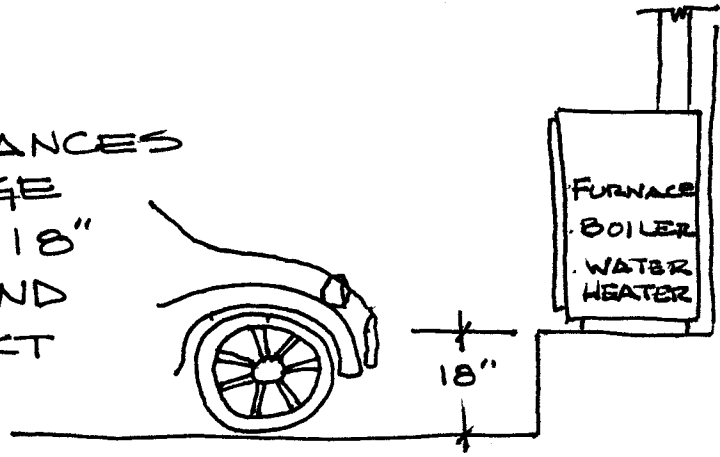
M1307.2

WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO PREVENT TIPPING.



M1307.3

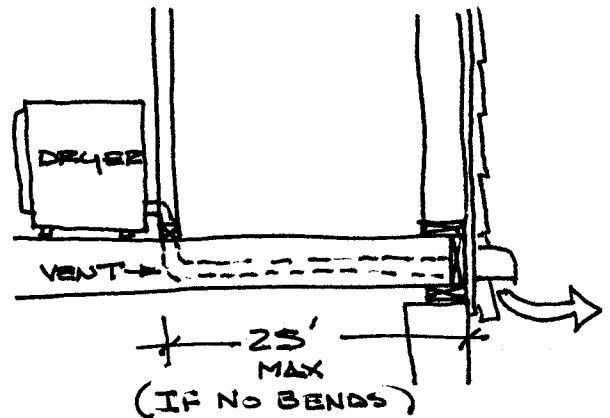
ALL GAS FIRED APPLIANCES
INSTALLED IN A GARAGE
SHALL BE ELEVATED 18"
ABOVE THE FLOOR AND
PROTECTED FROM IMPACT



NOTE:
THIS ALSO APPLIES TO ANY UTILITY
ROOM THAT CONNECTS DIRECTLY TO
THE GARAGE.

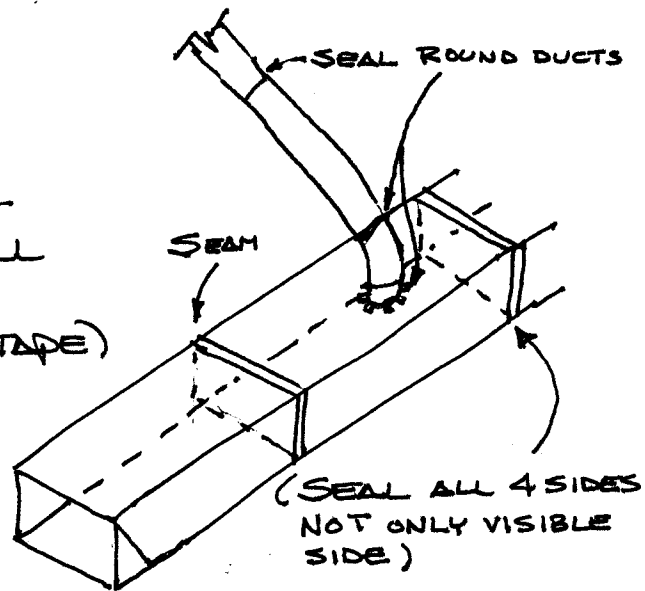
M1501.3

CLOTHES DRYERS VENT
MAXIMUM LENGTH IS 25'
WITH A REDUCTION OF 2.5'
FOR EACH 45° BEND OR 5'
FOR EACH 90° BEND

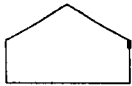
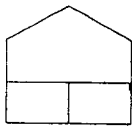
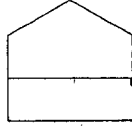
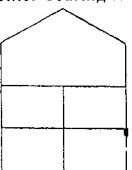
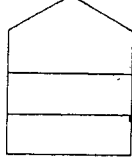


M1601.3.1

ALL JOINTS & SEAMS OF DUCT-
WORK (WARM & RETURN AIR) SHALL
BE SEALED USING APPROVED
TAPES OR MASTIC. (NOT DUCT TAPE)

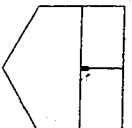
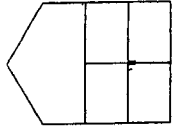


HEADER SPANS FOR EXTERIOR BEARING WALLS

GIRDERS AND HEADERS SUPPORTING	SIZE	Building width (feet)					
		20		28		36	
		Span	NJ ^k	Span	NJ ^k	Span	NJ ^k
Roof and ceiling 	2-2x4	3-2	1	2-9	1	2-6	1
	2-2x6	4-8	1	4-1	1	3-8	2
	2-2x8	5-11	2	5-2	2	4-7	2
	2-2x10	7-3	2	6-3	2	5-7	2
	2-2x12	8-5	2	7-3	2	6-6	2
	3-2x8	7-5	1	6-5	2	5-9	2
	3-2x10	9-1	2	7-10	2	7-0	2
	3-2x12	10-7	2	9-2	2	8-2	2
	4-2x8	8-4	1	7-5	1	6-8	1
	4-2x10	10-6	1	9-1	2	8-2	2
	4-2x12	12-2	2	10-7	2	9-5	2
	Roof, ceiling and one center-bearing floor 	2-2x4	2-9	1	2-5	1	2-2
2-2x6		4-1	1	3-7	2	3-3	2
2-2x8		5-2	2	4-6	2	4-1	2
2-2x10		6-4	2	5-6	2	5-0	2
2-2x12		7-4	2	6-5	2	5-9	3
3-2x8		6-5	2	5-8	2	5-1	2
3-2x10		7-11	2	6-11	2	6-3	2
3-2x12		9-2	2	8-0	2	7-3	2
4-2x8		7-5	1	6-6	1	5-11	2
4-2x10		9-1	2	8-0	2	7-2	2
4-2x12		10-7	2	9-3	2	8-4	2
Roof, ceiling and one clear span floor 		2-2x4	2-7	1	2-3	1	2-0
	2-2x6	3-10	2	3-4	2	3-0	2
	2-2x8	4-10	2	4-2	2	3-9	2
	2-2x10	5-11	2	5-1	2	4-7	3
	2-2x12	6-10	2	5-11	3	5-4	3
	3-2x8	6-1	2	5-3	2	4-8	2
	3-2x10	7-5	2	6-5	2	5-9	2
	3-2x12	8-7	2	7-5	2	6-8	2
	4-2x8	7-0	1	6-1	2	5-5	2
	4-2x10	8-7	2	7-5	2	6-7	2
	4-2x12	9-11	2	8-7	2	7-8	2
	Roof, ceiling and two center-bearing floors 	2-2x4	2-6	1	2-2	1	1-11
2-2x6		3-8	2	3-2	2	2-10	2
2-2x8		4-7	2	4-0	2	3-8	2
2-2x10		5-8	2	4-11	2	4-5	3
2-2x12		6-6	2	5-9	3	5-2	3
3-2x8		5-9	2	5-1	2	4-7	2
3-2x10		7-1	2	6-2	2	5-7	2
3-2x12		8-2	2	7-2	2	6-5	3
4-2x8		6-8	1	5-10	2	5-3	2
4-2x10		8-2	2	7-2	2	6-5	2
4-2x12		9-5	2	8-3	2	7-5	2
Roof, ceiling and two clear span floors 		2-2x4	2-0	1	1-8	1	1-5
	2-2x6	3-0	2	2-7	2	2-3	2
	2-2x8	3-10	2	3-4	2	2-11	3
	2-2x10	4-8	2	4-0	3	3-7	3
	2-2x12	5-5	3	4-8	3	4-2	3
	3-2x8	4-9	2	4-1	2	3-8	2
	3-2x10	5-10	2	5-0	2	4-6	3
	3-2x12	6-9	2	5-10	3	5-3	3
	4-2x8	5-6	2	4-9	2	4-3	2
	4-2x10	6-9	2	5-10	2	5-2	2
	4-2x12	7-9	2	6-9	2	6-0	3

NJ = NUMBER OF JACK STUDS
OR TRIMMER STUDS

HEADER SPANS FOR INTERIOR BEARING WALLS

HEADERS AND GIRDERS SUPPORTING	SIZE	BUILDING WIDTH ^k (feet)					
		20		28		36	
		Span	NJ ^d	Span	NJ ^d	Span	NJ ^d
One floor only 	2-2x4	3-1	1	2-8	1	2-5	1
	2-2x6	4-6	1	3-11	1	3-6	1
	2-2x8	5-9	1	5-0	2	4-5	2
	2-2x10	7-0	2	6-1	2	5-5	2
	2-2x12	8-1	2	7-0	2	6-3	2
	3-2x8	7-2	1	6-3	1	5-7	2
	3-2x10	8-9	1	7-7	2	6-9	2
	3-2x12	10-2	2	8-10	2	7-10	2
	4-2x8	4-10	1	5-1	2	4-6	2
	4-2x10	10-1	1	8-9	1	7-10	2
	4-2x12	11-9	1	10-2	2	9-1	2
	Two floors 	2-2x4	2-2	1	1-10	1	1-7
2-2x6		3-2	2	2-9	2	2-5	2
2-2x8		4-1	2	3-6	2	3-2	2
2-2x10		4-11	2	4-3	2	3-10	3
2-2x12		5-9	2	5-0	3	4-5	3
3-2x8		5-1	2	4-5	2	3-11	2
3-2x10		6-2	2	5-4	2	4-10	2
3-2x12		7-2	2	6-3	2	5-7	3
4-2x8		6-2	2	3-7	2	3-2	2
4-2x10		7-2	2	6-2	2	5-6	2
4-2x12		8-4	2	7-2	2	6-5	2

Floor Span Tables

L/480 Live Load Deflection

Depth	TJI*	40 PSF Live Load / 10 PSF Dead Load			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
9 1/2"	110	16'-5"	15'-0"	14'-2"	13'-2"
	210	17'-3"	15'-9"	14'-10"	13'-10"
11 7/8"	110	19'-6"	17'-10"	16'-10"	15'-5" ⁽¹⁾
	210	20'-6"	18'-8"	17'-8"	16'-5"
	360	22'-11"	20'-11"	19'-8"	18'-4"
	560	26'-1"	23'-8"	22'-4"	20'-9"
14"	110	22'-2"	20'-3"	18'-9"	16'-9" ⁽¹⁾
	210	23'-3"	21'-3"	20'-0"	18'-4" ⁽¹⁾
	360	26'-0"	23'-8"	22'-4"	20'-9" ⁽¹⁾
	560	29'-6"	26'-10"	25'-4"	23'-6"
16"	210	25'-9"	23'-6"	22'-0" ⁽¹⁾	19'-5" ⁽¹⁾
	360	28'-9"	26'-3"	24'-8" ⁽¹⁾	21'-5" ⁽¹⁾
	560	32'-8"	29'-8"	28'-0"	25'-2" ⁽¹⁾

L/360 Live Load Deflection (Minimum Criteria per Code)

Depth	TJI*	40 PSF Live Load / 10 PSF Dead Load			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
9 1/2"	110	18'-2"	16'-7"	15'-3"	13'-8"
	210	19'-1"	17'-5"	16'-6"	15'-0"
11 7/8"	110	21'-7"	18'-11"	17'-3"	15'-5" ⁽¹⁾
	210	22'-8"	20'-8"	18'-11"	16'-10"
	360	25'-4"	23'-2"	21'-10"	20'-4" ⁽¹⁾
	560	28'-10"	26'-3"	24'-9"	23'-0"
14"	110	23'-9"	20'-6"	18'-9"	16'-9" ⁽¹⁾
	210	25'-8"	22'-6"	20'-7"	18'-4" ⁽¹⁾
	360	28'-9"	26'-3"	24'-9" ⁽¹⁾	21'-5" ⁽¹⁾
	560	32'-8"	29'-9"	28'-0"	25'-2" ⁽¹⁾
16"	210	27'-10"	24'-1"	22'-0" ⁽¹⁾	19'-5" ⁽¹⁾
	360	31'-10"	29'-0"	26'-10" ⁽¹⁾	21'-5" ⁽¹⁾
	560	36'-1"	32'-11"	31'-0" ⁽¹⁾	25'-2" ⁽¹⁾

* TJI, BCI OR EQUIVALENT
Roof Span Table

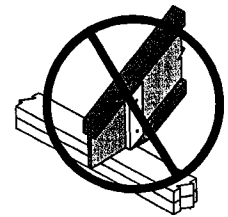
DO NOT overhang birdsmouth cut from inside face of plate.

Maximum Horizontal Clear Spans—Roof

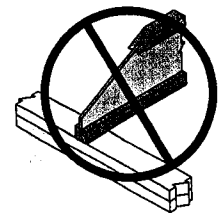
O.C. Spacing	Depth	TJI®	(MOUNTAINS)			
			40LL + 15DL		50LL + 15DL	
			Low*	High*	Low*	High*
16"	9 1/2"	110	16'-7"	15'-0"	15'-6"	14'-3"
		210	17'-7"	15'-11"	16'-7"	15'-1"
	11 7/8"	110	19'-0"	17'-11"	17'-6"	16'-11"
		210	20'-10"	19'-0"	19'-2"	18'-0"
		360	23'-11"	21'-7"	22'-7"	20'-6"
		560	27'-6"	24'-10"	26'-0"	23'-7"
16"	14"	110	20'-8"	19'-11"	19'-1"	18'-5"
		210	22'-8"	21'-7"	20'-11"	20'-3"
	16"	360	27'-2"	24'-7"	25'-8"	23'-4"
		560	31'-2"	28'-3"	29'-6"	26'-9"
		210	24'-3"	23'-4"	22'-4"	21'-8"
		360	30'-1"	27'-2"	26'-0"	25'-10"
16"	9 1/2"	110	15'-5"	14'-1"	14'-2"	13'-4"
		210	16'-6"	14'-11"	15'-7"	14'-2"
	11 7/8"	110	17'-4"	16'-8"	16'-0"	15'-5"
		210	19'-0"	17'-10"	17'-6"	16'-11"
		360	22'-5"	20'-3"	21'-2"	19'-3"
		560	25'-9"	23'-4"	24'-4"	22'-2"
19.2"	14"	110	18'-10"	18'-2"	17'-0"	16'-10"
		210	20'-8"	19'-11"	18'-10"	18'-5"
	16"	360	25'-6"	23'-1"	21'-7"	21'-8"
		560	29'-3"	26'-6"	26'-5"	25'-2"
		210	22'-1"	21'-4"	18'-10"	19'-8"
		360	25'-7"	25'-3"	21'-7"	21'-8"
16"	9 1/2"	110	13'-9"	13'-0"	12'-8"	12'-3"
		210	15'-1"	13'-10"	13'-11"	13'-1"
	11 7/8"	110	15'-6"	14'-11"	13'-7"	13'-10"
		210	17'-0"	16'-4"	15'-0"	15'-2"
		360	20'-5"	18'-9"	17'-3"	17'-4"
		560	23'-10"	21'-7"	21'-1"	20'-3"
24"	14"	110	16'-0"	16'-3"	13'-7"	14'-2"
		210	17'-10"	17'-9"	15'-0"	15'-8"
	16"	360	20'-5"	20'-2"	17'-3"	17'-4"
		560	24'-11"	23'-7"	21'-1"	20'-3"
		210	17'-10"	18'-3"	15'-0"	15'-8"
		360	20'-5"	20'-2"	17'-3"	17'-4"
16"	560	24'-11"	23'-7"	21'-1"	20'-3"	

* LOW PITCH IS 6/12 OR LOWER

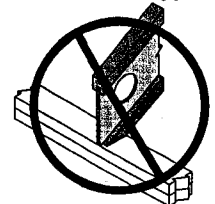
* HIGH PITCH IS OVER 6/12 TO 12/12



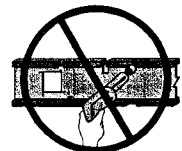
DO NOT bevel cut joist beyond inside face of wall.



DO NOT cut holes too close to support.

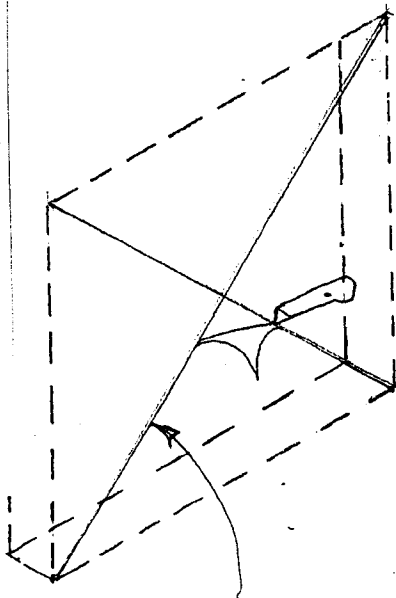


DO NOT cut or notch flange.



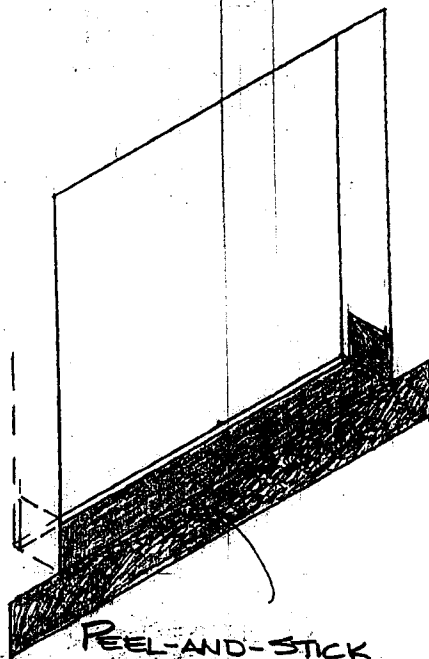
MOISTURE BARRIER Application

STEP 1



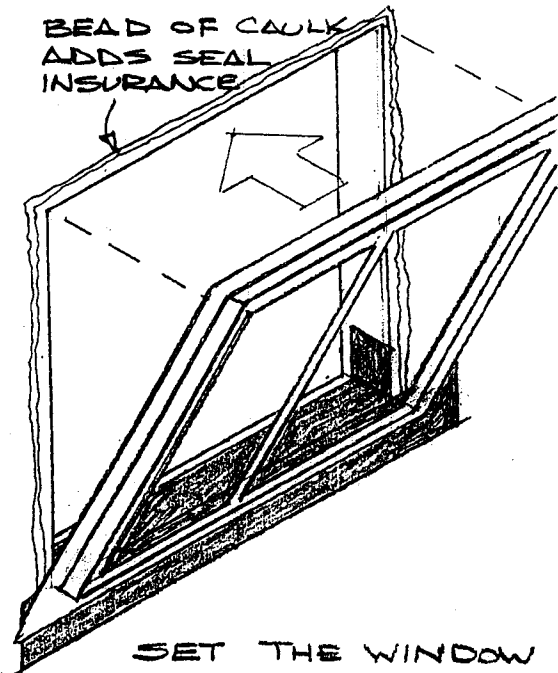
CUT HOUSEWRAP OR PAPER AND FOLD INTO THE WINDOW OPENING

STEP 2



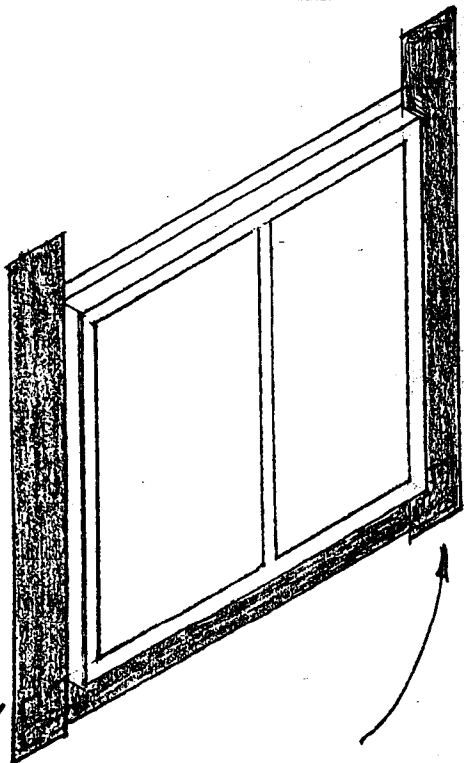
PEEL-AND-STICK MEMBRANE CUT TO CREATE A RUBBER PAN

STEP 3



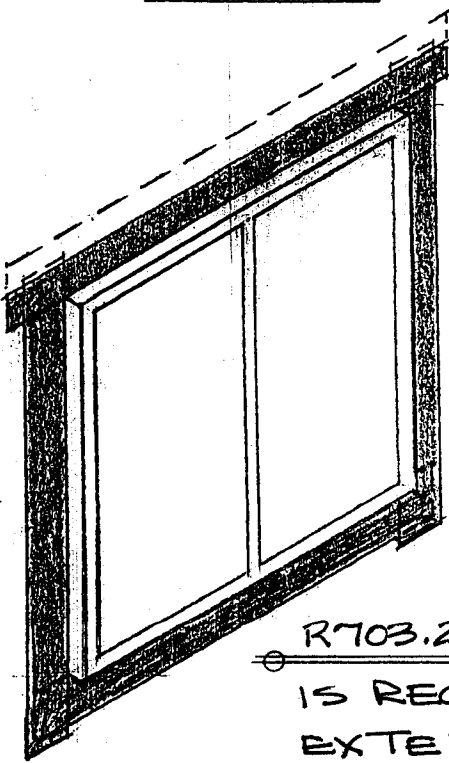
SET THE WINDOW ON THE PAN. NO CAULK ON THE BOTTOM

STEP 4



INSTALL THE TWO PEEL-AND-STICK MEMBRANE JAMB PIECES

STEP 5



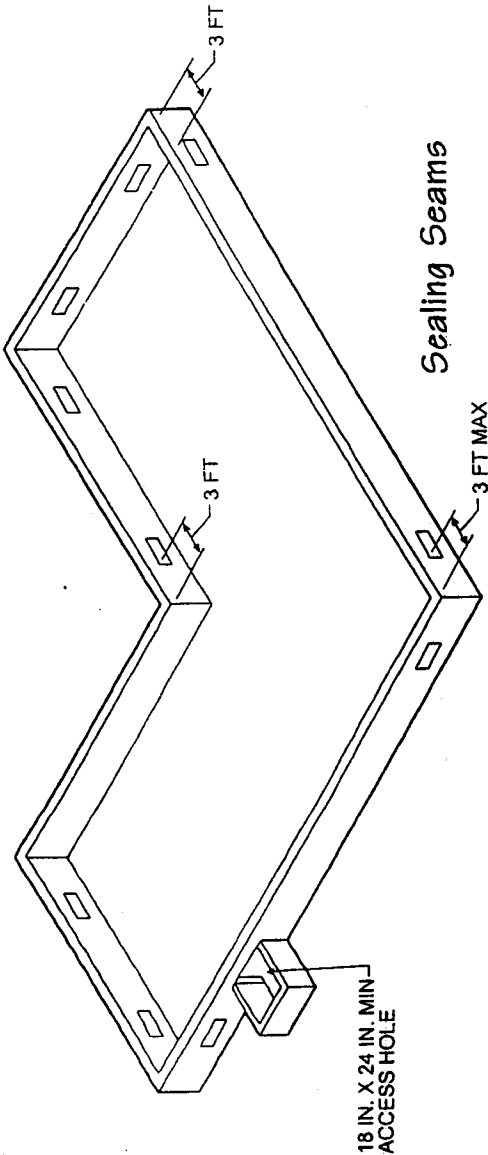
SLIT THE HOUSEWRAP OR PAPER AND INSERT THE PEEL-AND-STICK MEMBRANE UP UNDER THE HOUSEWRAP.

NOTE:

Apply the MOISTURE BARRIER SHINGLE STYLE OVER ALL EXT. WALLS INCLUDING GABLE ENDS AND GARAGES

R703.2 EXT. MOISTURE BARRIER IS REQUIRED OVER ALL EXTERIOR WALLS. ANY DETACHED ACCESSORY BUILDINGS ARE EXEMPT FROM THE MOISTURE BARRIER.

CRAWLSPACE DETAILING



Sealing Seams

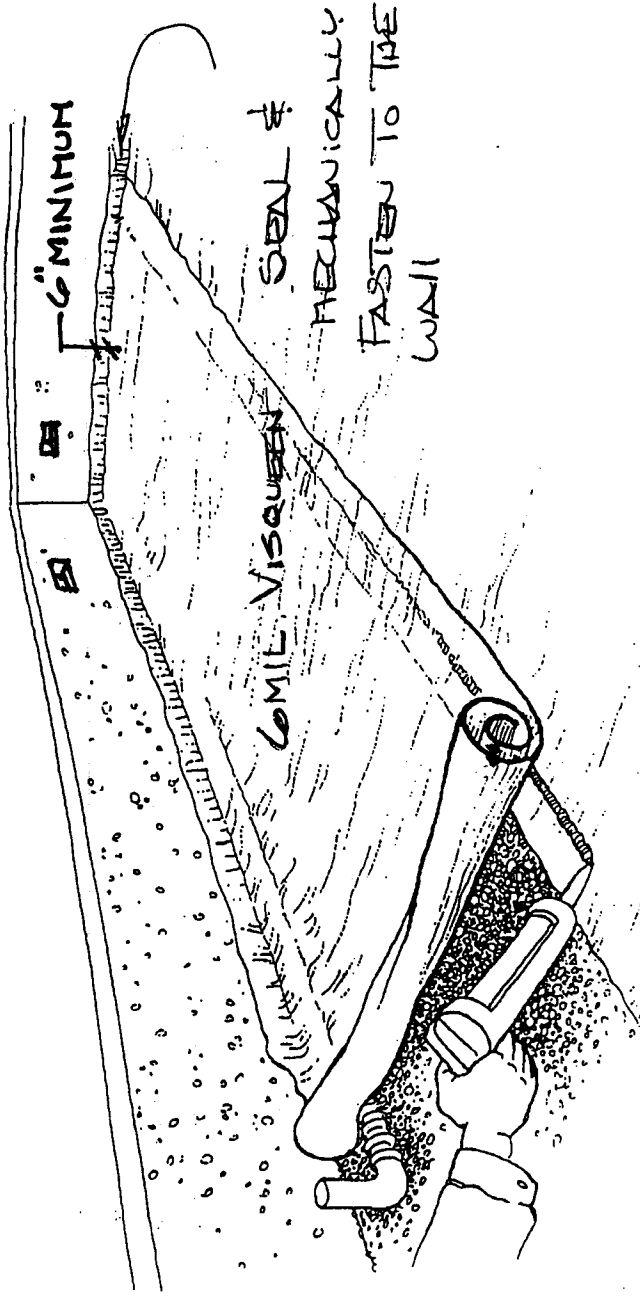
Seams between adjoining sheets of sheeting are usually sealed by

applying a continuous bead of sealant between the sheets in the 12-inch strip where the sheets overlap. Firmly press the overlapping sheets together.

Sealing should be sufficiently durable to withstand anticipated traffic through the crawlspace. To effectively seal the plastic sheeting, use a 1/2-inch wide bead of caulk.

Type Of Caulk

Polyurethane caulk will provide some adhesion to the polyethylene sheeting. However acoustical sealant, butyl rubber, or butyl acrylic caulks form a more durable bond with the plastic. Field work suggests that other proprietary sealants are also effective, such as Proflex by GeoCel.



SLEEPING ROOMS AND ATTICS: 30 PSF LIVE, 10 PSF DEAD

Floor Joists

Maximum Allowable Span (ft.-in.)

Species Group	Spacing (in)	2 x 6				2 x 8				2 x 10				2 x 12			
		Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3
D.Fir-L	12	12-6	12-0	11-10	9-11	16-6	15-10	15-7	12-7	21-0	20-3	19-10	15-5	25-7	24-8	23-4	17-10
	16	11-4	10-11	10-9	8-7	15-0	14-5	14-2	10-11	19-1	18-5	17-5	13-4	23-3	21-4	20-3	15-5
	19.2	10-8	10-4	10-1	7-10	14-1	13-7	13-0	10-0	18-0	16-9	15-11	12-2	21-10	19-6	18-6	14-1
	24	9-11	9-7	9-3	7-0	13-1	12-4	11-8	8-11	16-8	15-0	14-3	10-11	20-3	17-5	16-6	12-7

ALL ROOMS EXCEPT SLEEPING ROOMS AND ATTICS: 40 PSF LIVE, 10 PSF DEAD

Floor Joists

Maximum Allowable Span (ft.-in.)

Species Group	Spacing (in)	2 x 6				2 x 8				2 x 10				2 x 12			
		Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3
D.Fir-L	12	11-4	10-11	10-9	8-11	15-0	14-5	14-2	11-3	19-1	18-5	18-0	13-9	23-3	22-0	20-11	16-0
	16	10-4	9-11	9-9	7-8	13-7	13-1	12-9	9-9	17-4	16-5	15-7	11-11	21-1	19-1	18-1	13-10
	19.2	9-8	9-4	9-2	7-0	12-10	12-4	11-8	8-11	16-4	15-0	14-3	10-11	19-10	17-5	16-6	12-7
	24	9-0	8-8	8-3	6-3	11-11	11-0	10-5	8-0	15-2	13-5	12-9	9-9	18-5	15-7	14-9	11-3

DRYWALL - NO FUTURE ROOMS AND NO ATTIC STORAGE: 10 PSF LIVE, 5 PSF DEAD

Ceiling Joists

Maximum Allowable Span (ft.-in.)

Species Group	Spacing (in)	2 x 4				2 x 6				2 x 8				2 x 10			
		Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3
D.Fir-L	12	13-2	12-8	12-5	11-1	20-8	19-11	19-6	16-3	27-2	26-2	25-8	20-7	34-8	33-5	32-9	25-2
	16	11-11	11-6	11-3	9-7	18-9	18-1	17-8	14-1	24-8	23-10	23-4	17-10	31-6	30-0	28-6	21-9
	19.2	11-3	10-10	10-7	8-9	17-8	17-0	16-8	12-10	23-3	22-5	21-4	16-3	29-8	27-5	26-0	19-10
	24	10-5	10-0	9-10	7-10	16-4	15-9	15-0	11-6	21-7	20-1	19-1	14-7	27-6	24-6	23-3	17-9

SNOW REGION, LIGHT ROOF COVERING, DRYWALL, NO ATTIC SPACE: 40 PSF LIVE, 10 PSF DEAD

Rafters

Maximum Allowable Horizontal Span (ft.-in.)

Species Group	Spacing (in)	2 x 6				2 x 8				2 x 10				2 x 12			
		Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3
D.Fir-L	12	13-0	12-6	12-3	9-6	17-2	16-6	15-10	12-1	21-10	20-4	19-4	14-9	26-7	23-7	22-5	17-1
	16	11-10	11-5	10-10	8-3	15-7	14-5	13-8	10-6	19-10	17-8	16-9	12-9	24-2	20-5	19-5	14-10
	19.2	11-1	10-5	9-10	7-7	14-8	13-2	12-6	9-7	18-8	16-1	15-3	11-8	22-9	18-8	17-9	13-6
	24	10-4	9-4	8-10	6-9	13-7	11-9	11-2	8-7	17-4	14-5	13-8	10-5	20-5	16-8	15-10	12-1

SNOW REGION, LIGHT ROOF COVERING, DRYWALL, NO ATTIC SPACE: 50 PSF LIVE, 10 PSF DEAD (MOUNTAINS)

Rafters

Maximum Allowable Horizontal Span (ft.-in.)

Species Group	Spacing (in)	2 x 6				2 x 8				2 x 10				2 x 12			
		Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3	Sel. Str.	No.1	No.2	No.3
D.Fir-L	12	12-1	11-8	11-5	8-9	15-11	15-3	14-5	11-0	20-3	18-7	17-8	13-6	24-8	21-7	20-5	15-7
	16	11-0	10-5	9-10	7-7	14-5	13-2	12-6	9-7	18-5	16-1	15-3	11-8	22-5	18-8	17-9	13-6
	19.2	10-4	9-6	9-0	6-11	13-7	12-0	11-5	8-9	17-4	14-8	13-11	10-8	20-11	17-1	16-2	12-4
	24	9-7	8-6	8-1	6-2	12-7	10-9	10-3	7-10	16-1	13-2	12-6	9-6	18-8	15-3	14-6	11-1