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FLOOR JOISTS

30# LIVE LOAD, 10# DEAD LOAD, /1360

Span (feet and inches)

Species or Group	Grade	2 x 6			2 x 8			2 x 10			2 x 12		
		12" oc 16" oc 24" oc			12" oc 16" oc 24" oc			12" oc 16" oc 24" oc			12" oc 16" oc 24" oc		
Doug-Fir Larch (Western)	Sel. Struc.	12-6	11-4	9-11	16-6	15-0	13-1	21-0	19-1	16-8	25-7	23-3	20-3
	No.1 & Btr.	12-3	11-2	9-9	16-2	14-8	12-8	20-8	18-9	16-1	25-1	22-10	18-8
	No. 1	12-0	10-11	9-7	15-10	14-5	12-4	20-3	18-5	15-0	24-8	21-4	17-5
	No. 2	11-10	10-9	9-1	15-7	14-1	11-6	19-10	17-2	14-1	23-0	19-11	16-3
	No. 3	9-8	8-5	6-10	12-4	10-8	8-8	15-0	13-0	10-7	17-5	15-1	12-4
Doug-Fir South (Western)	Sel. Struc.	11-3	10-3	11-10	14-11	13-6	11-10	19-0	17-3	15-1	23-1	21-0	18-4
	No. 1	11-0	10-0	8-9	14-6	13-2	11-6	18-6	16-10	14-3	22-6	20-3	16-6
	No. 2	10-9	9-9	8-6	14-2	12-10	11-2	18-0	16-5	13-8	21-11	19-4	15-10
	No.3	9-6	8-2	6-8	12-0	10-5	8-6	14-8	12-8	10-4	17-0	14-8	12-0
Hem-Fir (Western)	Sel. Struc.	11-10	10-9	9-4	15-7	14-2	12-4	19-10	18-0	15-9	24-2	21-11	19-2
	No. 1 & Btr.	11-7	10-6	9-2	15-3	13-10	12-1	19-5	17-8	15-5	23-7	21-6	17-10
	No. 1	11-7	10-6	9-2	15-3	13-10	12-0	19-5	17-8	14-8	23-7	20-9	17-0
	No.2	11-0	10-0	8-9	14-6	13-2	11-4	18-6	16-10	13-10	22-6	19-8	16-1
	No.3	9-8	8-5	6-10	12-4	10-8	8-8	15-0	13-0	10-7	17-5	15-1	12-4
Spruce- Pine-fir (South)	Sel. Struc.	11-0	10-0	8-9	14-6	13-2	11-6	18-6	16-10	14-8	22-6	20-6	17-11
	No.1 & Btr.	10-9	9-9	8-6	14-2	12-10	11-3	18-0	16-5	13-10	21-11	19-8	16-1
	No. 1	10-5	9-6	8-3	13-9	12-6	10-8	17-6	15-11	13-0	21-4	18-6	15-1
	No. 2	8-11	7-9	6-4	11-4	9-10	8-0	13-10	12-0	9-9	16-1	13-11	11-4
	No. 3												
Doug Fir Larch North (Canada)	Sle. Struc.	12-6	11-4	9-11	16-6	15-0	8-10	21-0	19-1	16-8	25-7	23-3	19-10
	No. 1	11-10	10-9	8-10	15-7	13-8	11-2	19-3	16-8	13-8	22-4	19-4	15-10
	No. 2	11-10	10-9	8-10	15-7	13-8	11-2	19-3	16-8	13-8	22-4	19-4	15-10
	No. 3	9-6	8-2	6-8	12-0	10-5	8-6	14-8	12-8	10-4	17-0	14-8	12-0
Hem-Fir North (Canada)	Sle. Struc.	12-0	10-11	9-7	15-10	14-5	12-7	20-3	18-5	16-1	24-8	22-5	19-7
	No. 1	11-10	10-9	9-4	15-7	14-2	12-4	19-10	18-0	15-0	24-2	21-4	17-5
	No. 2	11-10	10-9	9-4	15-7	14-2	12-4	19-10	18-0	15-0	24-2	21-4	17-5
	No. 3	10-5	9-0	7-4	13-2	11-5	9-4	16-1	13-11	11-5	18-8	16-2	13-2
Spruce, Pine, Fir (Canada)	Sle. Struc.	11-7	10-6	9-2	15-3	13-10	12-1	19-5	17-8	15-5	23-7	21-6	18-9
	No. 1	11-3	10-3	8-11	14-11	13-6	11-6	19-0	17-8	14-1	23-0	19-11	16-3
	No. 2	11-3	10-3	8-11	14-11	13-6	11-6	19-0	17-8	14-1	23-0	19-11	16-3
	No. 3	9-8	8-5	6-10	12-4	10-8	8-8	15-0	13-0	10-7	17-5	15-1	12-4

FLOOR JOISTS

40# LIVE LOAD, 10# DEAD LOAD, 1/360

Span (feet and inches)

		2 x 6			2 x 8			2 x 10			2 x 12		
Species or Group	Grade	12" oc 16" oc 24" oc			12" oc 16" oc 24" oc			12" oc 16" oc 24" oc			12" oc 16" oc 24" oc		
Doug-Fir Larch (Western)	Sel. Struc.	11-4	10-4	9-0	15-0	13-7	11-11	19-1	17-4	15-2	23-3	21-1	18-5
	No.1 & Btr.	11-2	10-2	8-10	14-8	13-4	11-8	18-9	17-0	14-5	22-10	20-5	16-8
	No. 1	10-11	9-11	8-8	14-5	13-1	11-0	18-5	16-5	13-5	22-0	19-1	15-7
	No. 2	10-9	9-9	8-1	14-2	12-7	10-3	17-9	15-5	12-7	20-7	17-10	14-7
	No. 3	8-8	7-6	6-2	11-0	9-6	7-9	13-5	11-8	9-6	15-7	13-6	11-0
Doug-Fir South (Western)	Sel. Struc.	10-3	9-4	8-2	13-6	12-3	10-9	17-3	15-8	13-8	21-0	19-1	16-8
	No. 1	10-0	9-1	7-1	13-2	12-0	10-5	16-10	15-3	12-9	20-6	18-1	14-9
	No. 2	9-9	8-10	7-9	12-10	11-8	10-0	16-5	14-11	12-2	15-2	13-2	10-9
	No. 3	8-6	7-4	6-0	10-9	9-3	7-7	13-1	11-4	9-3	15-2	13-2	10-9
Hem-Fir (Western)	Sel. Struc.	10-9	9-9	8-6	14-2	12-10	11-3	18-0	16-5	14-4	21-11	19-11	17-5
	No.1 & Btr.	10-6	9-6	8-4	13-10	12-7	11-0	17-8	16-0	13-9	21-6	19-6	16-0
	No. 1	10-6	9-6	8-4	13-10	12-7	10-9	17-8	16-0	13-9	21-6	18-7	15-2
	No. 2	10-0	9-1	7-11	13-2	12-0	10-2	16-10	15-2	12-5	20-4	17-7	14-4
	No. 3	8-8	7-6	6-2	11-0	9-6	7-9	13-5	11-8	9-6	15-7	13-6	11-0
Spruce-Pine-Fir (South)	Sel. Struc.	10-0	9-9	8-6	13-2	12-0	10-6	16-10	15-3	13-4	20-6	18-7	16-3
	No. 1	9-9	8-10	7-9	12-10	11-8	10-2	16-5	14-11	12-5	19-11	17-7	14-4
	No. 2	9-6	8-7	7-6	12-6	11-4	9-6	15-11	14-3	11-8	19-1	16-6	13-6
	No. 3	8-0	6-11	5-8	10-2	8-9	7-2	12-5	10-9	8-9	14-4	12-5	10-2
Doug Fir Larch North (Canada)	Sel. Struc.	11-4	10-4	9-0	15-0	13-7	11-11	19-1	17-4	15-2	23-3	21-1	17-9
	No. 1	10-9	9-8	7-11	14-1	12-3	10-0	17-3	14-11	12-2	20-0	17-4	14-2
	No. 2	10-9	9-8	7-11	14-1	12-3	10-0	17-3	14-11	12-2	20-0	17-4	14-2
	No. 3	8-6	7-4	6-0	10-9	9-3	7-7	13-1	11-4	9-3	15-2	13-2	10-9
Hem-Fir North (Canada)	Sel. Struc.	10-11	9-11	8-8	14-5	13-1	11-5	18-5	16-9	14-7	22-5	20-4	17-9
	No. 1	10-9	9-9	8-6	14-2	12-10	11-0	18-0	16-5	13-5	21-11	19-1	15-7
	No. 2	10-9	9-9	8-6	14-2	12-10	11-0	18-0	16-5	13-5	21-11	19-1	15-7
	No. 3	9-4	8-1	6-7	11-9	10-3	8-4	14-5	12-6	10-2	16-8	14-6	11-10
Spruce, Pine, Fir (Canada)	Sel. Struc.	10-6	9-6	8-4	13-10	12-7	11-0	17-8	16-0	14-0	21-6	20-7	15-7
	No. 1	10-3	9-4	8-1	13-6	12-3	10-3	17-3	15-5	12-7	19-6	17-10	17-0
	No. 2	10-3	9-4	8-1	13-6	12-3	10-3	17-3	15-5	12-7	19-6	17-10	17-0
	No. 3	8-8	7-6	6-2	11-0	9-6	7-9	13-5	11-8	9-6	15-7	13-6	11-0

FASTENING SCHEDULE

BUILDING ELEMENT	NAIL SIZE AND TYPE	NUMBER AND LOCATION
FLOOR CONSTRUCTION		
Built-up girders and beams	20d common	32" o.c. direct
Bridging to joists	8d common	2 each direct end
Floor joist to studs (no ceiling joists)	10d common	5 direct
Floor joist to studs (with ceiling joists)	10d common	2 direct
Floor joists to sill or girder	8d common	3 toe nail
Ledger strip	16d common	3 each direct joist
1" subflooring (6" or less)	8d common	2 each direct joist
2" subflooring	16d common	2 each direct joist
Particle board underlayment (1/4"-3/4")	6d annular threaded	6" o.c. direct edges and 12" o.c. intermediate
particle board subflooring (5/8" or greater)	8d common	6" o.c. direct edges and 12" o.c. intermediate
Wood structural panel subflooring (19/32"-3/4")	8d common or 6d annular or spiral thread	6" o.c. direct edges and 12" o.c. intermediate

Wood structural panel subflooring (7/8" - 1-1/8")	10 d common or 8d ring shank or 8d annular or spiral thread	6" o.c. intermediate
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CEILING JOISTS

10# LIVE LOAD, 5# DEAD LOAD, 1/240

Use these loading conditions for the following:
 No attic storage. Ceiling where the roof slope
 is not steeper than 3 in 12. Drywall ceilings.

Span (feet and inches)

Species or Group	Grade	2 x 4			2 x 6			2 x 8			2 x 10		
		12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc
Doug-Fir Larch (Western)	Sel. Struc.	13-2	11-11	10-5	20-8	18-9	16-4	27-2	24-8	21-7	34-8	31-6	27-6
	No.1 & Btr.	12-11	11-9	10-3	20-3	18-5	16-1	26-9	24-3	21-2	34-1	31-0	26-4
	No. 1	12-8	11-6	10-0	19-11	18-1	15-8	26-2	23-10	20-1	33-5	30-0	24-6
	No. 2	12-5	11-3	9-10	19-6	17-8	14-10	25-8	23-0	18-9	32-5	28-1	22-11
	No. 3	10-10	9-5	7-8	15-10	13-9	11-2	20-1	17-5	14-2	24-6	21-3	17-4
Doug-Fir South (Western)	Sel. Struc.	11-10	10-9	9-5	18-8	16-11	14-9	24-7	22-4	19-6	31-4	28-6	24-10
	No. 1	11-7	10-6	9-2	18-2	16-6	14-5	24-0	21-9	19-0	30-7	27-9	23-3
	No. 2	11-3	10-3	8-11	17-8	16-1	14-1	23-4	21-2	18-3	29-9	27-1	22-3
	No. 3	10-7	9-2	7-6	15-5	13-5	10-11	19-7	16-11	13-10	23-11	20-8	16-11
Hem-Fir (Western)	Sel. Struc.	12-5	11-3	9-10	19-6	17-8	15-6	25-8	23-4	20-5	32-9	29-9	26-0
	No. 1 & Btr.	12-2	11-0	9-8	19-1	17-4	15-2	25-2	22-10	19-11	32-1	29-2	25-2
	No. 1	12-2	11-0	9-8	19-1	17-4	15-2	25-2	22-10	19-7	32-1	29-2	23-11
	No. 2	11-7	10-6	9-2	18-2	16-6	14-5	24-0	21-9	18-6	30-7	27-8	22-7
	No. 3	10-10	9-5	7-8	15-10	13-9	11-2	20-1	17-5	14-2	24-6	21-3	17-4
Spruce- Pine-Fir (South)	Sel. Struc.	11-7	10-6	9-2	18-2	16-6	14-5	24-0	21-9	19-0	30-7	27-9	24-3
	No. 1	11-3	10-3	8-11	17-8	16-1	14-1	23-4	21-2	18-6	29-9	27-1	22-7
	No. 2	10-11	9-11	8-8	17-2	15-7	13-8	22-8	20-7	17-5	28-11	26-0	21-3
	No. 3	10-0	8-8	7-1	14-7	12-8	10-4	18-6	16-0	13-1	22-7	19-7	16-0
Doug Fir Larch North (Canada)	Sle. Struc.	13-2	11-11	10-5	20-8	18-9	16-4	27-2	24-8	21-7	34-8	31-6	27-6
	No. 1	12-5	11-3	9-10	19-6	17-8	14-5	25-8	22-4	18-3	31-6	27-3	22-3
	No. 2	12-5	11-3	9-10	19-6	17-8	14-5	25-5	22-4	18-3	31-6	27-3	22-3
	No. 3	10-7	9-2	7-7	15-5	13-5	10-11	19-7	16-11	13-10	23-11	20-8	16-11
Hem-Fir North (Canada)	Sle. Struc.	12-8	11-6	10-0	19-11	18-1	15-9	26-2	23-10	20-10	33-5	30-5	26-6
	No. 1	12-5	11-3	9-10	19-6	17-8	15-6	25-8	23-4	20-1	32-9	29-9	24-6
	No. 2	12-5	11-3	9-10	19-6	17-8	15-6	25-8	23-4	20-1	32-9	29-9	24-6
	No. 3	11-7	10-1	8-3	17-0	14-9	12-0	21-6	18-8	15-3	26-4	22-9	18-7
Spruce, Pine, Fir (Canada)	Sle. Struc.	12-2	11-0	9-8	19-1	17-4	15-2	25-2	22-10	19-11	32-1	29-2	25-5
	No. 1	11-10	10-9	9-5	18-8	16-11	14-9	24-7	22-4	18-9	31-4	28-1	22-11
	No. 2	11-10	10-9	9-5	18-8	16-11	14-9	24-7	22-4	18-9	31-4	28-1	22-11
	No. 3	10-10	9-5	7-8	15-10	13-9	11-2	20-1	17-5	14-2	24-6	21-3	17-4

CEILING JOISTS

Use these loading conditions for the following:
 Limited attic storage where development of
 future rooms is not possible. Ceilings where the
 roof pitch is steeper than 3 in 12.
 Where the clear height in the attic is greater
 than 30 inches. Drywall ceiling.

Span (feet and inches)

Species or Group	Grade	2 x 4			2 x 6			2 x 8			2 x 10		
		12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc
Doug-Fir Larch (Western)	Sel. Struc.	10-5	9-6	8-3	16-4	14-11	13-0	21-7	19-7	17-1	27-6	25-0	20-11
	No. 1 & Btr.	10-3	9-4	8-1	16-1	14-7	12-0	21-2	18-8	15-3	26-4	22-9	18-7
	No. 1	10-0	9-1	7-8	15-9	13-9	11-2	20-1	17-5	14-2	24-6	21-3	17-4
	No. 2	9-10	8-9	7-2	14-10	12-10	10-6	18-9	16-3	13-3	22-11	19-10	16-3
	No. 3	7-8	6-8	5-5	11-2	9-8	7-11	14-2	12-4	10-0	17-4	15-0	12-3
Doug-Fir South (Western)	Sel. Struc.	9-5	8-7	7-6	14-9	13-5	11-9	19-6	17-9	15-6	24-10	22-7	19-9
	No. 1	9-2	8-4	7-3	14-5	13-0	10-8	19-0	16-6	13-6	23-3	20-2	16-5
	No. 2	8-11	8-1	7-0	14-1	12-6	10-2	18-3	15-9	12-11	22-3	19-3	15-9
	No. 3	7-6	6-6	5-3	10-11	9-6	7-9	13-10	12-0	9-9	16-11	14-8	11-11
Hem-Fir (Western)	Sel. Struc.	9-10	8-11	7-10	15-6	14-1	12-3	20-5	18-6	16-2	26-0	23-8	20-6
	No. 1 & Btr.	9-8	8-9	7-8	15-2	13-9	11-6	19-11	17-10	14-7	25-2	21-9	17-9
	No. 1	9-8	8-9	7-6	15-2	13-5	10-11	19-7	16-11	13-10	23-11	20-8	16-11
	No. 2	9-2	8-4	7-1	14-5	12-8	10-4	18-6	16-0	13-1	22-7	19-7	16-0
	No. 3	7-8	6-8	5-5	11-2	9-8	7-11	14-2	12-4	10-0	17-4	15-0	12-3
Spruce- Pine-Fir (South)	Sel. Struc.	9-2	8-4	7-3	14-5	13-1	11-5	19-0	17-3	15-1	24-3	22-1	19-3
	No. 1	8-11	8-1	7-1	14-1	12-8	10-4	18-6	16-0	13-1	22-7	19-7	16-0
	No. 2	8-8	7-11	6-8	13-8	11-11	9-8	17-5	15-1	12-4	21-3	18-5	15-0
	No. 3	7-1	6-1	5-0	10-4	8-11	7-4	13-1	11-4	9-3	16-0	13-10	11-4
Doug Fir Larch North (Canada)	Sle. Struc.	10-5	9-6	8-3	16-4	14-11	12-9	21-7	19-7	16-2	27-6	24-3	19-9
	No. 1	9-10	8-6	7-0	14-5	12-6	10-2	18-3	15-9	12-11	22-3	19-3	15-9
	No. 2	9-10	8-6	7-0	14-5	12-6	10-2	18-3	15-9	12-11	22-3	19-3	15-9
	No. 3	7-6	6-6	5-3	10-11	9-6	7-9	13-10	12-0	9-9	16-11	14-8	11-11
Hem-Fir North (Canada)	Sle. Struc.	10-0	9-1	8-0	15-9	14-4	12-6	20-10	18-11	16-2	26-6	24-1	21-3
	No. 1	9-10	8-11	7-8	15-6	13-9	11-2	20-1	17-5	14-2	24-6	21-2	17-4
	No. 2	9-10	8-11	7-8	15-6	13-9	11-2	20-1	17-5	14-2	24-6	21-2	17-4
	No. 3	8-3	7-1	5-10	12-0	10-5	8-6	15-3	13-2	10-9	18-7	16-1	13-2
Spruce, Pine, Fir (Canada)	Sle. Struc.	9-8	8-9	7-8	15-2	13-9	12-0	19-11	18-2	15-10	25-5	23-2	19-5
	No. 1	9-5	8-7	7-2	14-9	12-10	10-6	18-9	16-3	13-3	22-11	19-10	16-3
	No. 2	9-5	8-7	7-2	14-9	12-10	10-6	18-9	16-3	13-3	22-11	19-10	16-3
	No. 3	7-8	6-8	5-5	11-2	9-8	7-11	14-2	12-4	10-0	17-4	15-0	12-3

ROOF RAFTERS
 Flat roof or cathedral ceiling
 with drywall finish.
 Light roof covering

30# SNOW LOAD, 15# DEAD LOAD, 1/240

Span (feet and inches)

Species or Group	Grade	2 x 6			2 x 8			2 x 10			2 x 12		
		12" oc 16" oc 24" oc			12" oc 16" oc 24" oc			12" oc 16" oc 24" oc			12" oc 16" oc 24" oc		
Doug-Fir Larch (Western)	Sel. Struc.	14-4	13-0	11-4	18-10	17-2	15-0	24-1	21-10	18-3	29-3	26-0	21-2
	No.1 & Btr.	14-1	12-9	10-6	18-6	16-4	13-4	23-0	19-11	16-3	26-8	23-1	18-11
	No. 1	13-9	12-0	9-10	17-7	15-3	12-5	21-6	18-7	15-2	24-11	21-7	17-7
	No. 2	13-0	11-3	9-2	16-5	14-3	11-8	20-1	17-5	14-2	23-3	20-2	16-6
	No. 3	9-10	8-6	6-11	12-5	10-9	8-9	15-2	13-2	10-9	17-7	15-3	12-5
Doug-Fir South (Western)	Sel. Struc.	12-11	11-9	10-3	17-0	15-6	13-6	21-9	19-9	17-3	26-5	24-0	20-1
	No. 1	12-7	11-5	9-4	16-7	14-5	11-9	20-4	17-8	14-5	23-7	20-5	16-8
	No. 2	12-3	10-11	8-11	16-0	13-10	11-3	19-6	16-11	13-9	22-7	19-7	16-0
	No. 3	9-7	8-3	6-9	12-1	10-6	8-7	14-10	12-10	10-6	17-2	14-10	12-2
Hem-Fir (Western)	Sel. Struc.	13-6	12-3	10-9	17-10	16-2	14-2	22-9	20-8	18-0	27-8	25-1	20-10
	No. 1 & Btr.	13-3	12-0	10-1	17-5	15-7	12-9	22-0	19-1	15-7	25-6	22-1	18-0
	No. 1	13-3	11-9	9-7	17-2	14-10	12-1	20-11	18-1	14-10	24-3	21-0	17-2
	No. 2	12-7	11-1	9-1	16-2	14-0	11-6	19-10	17-2	14-0	22-11	19-11	16-3
	No. 3	9-10	8-6	6-11	12-5	10-9	8-9	15-2	13-2	10-9	17-7	15-3	12-5
Spruce- Pine-Fir (South)	Sel. Struc.	12-7	11-5	10-0	16-7	15-1	13-2	21-2	19-3	16-10	25-9	23-5	20-1
	No. 1	12-3	11-1	9-1	16-2	14-0	11-6	19-10	17-2	14-0	22-11	19-11	16-3
	No. 2	11-11	10-5	8-6	15-3	13-2	10-9	18-7	16-1	13-2	21-7	18-8	15-3
	No. 3	9-1	7-10	6-5	11-6	9-11	8-1	14-0	12-1	9-11	16-3	14-1	11-6
Doug Fir Larch North (Canada)	Sle. Struc.	14-4	13-0	11-2	18-10	17-2	14-2	24-1	21-2	17-4	28-5	24-7	20-1
	No. 1	12-7	10-11	8-11	16-0	13-10	11-3	19-6	16-11	13-9	22-7	19-7	16-0
	No. 2	12-7	10-11	8-11	16-0	13-10	11-3	19-6	16-11	13-9	22-7	19-7	16-0
	No. 3	9-7	8-3	6-9	12-1	10-6	8-7	14-10	12-10	10-6	17-2	14-10	12-2
Hem-Fir North (Canada)	Sle. Struc.	13-9	12-6	10-11	18-2	16-6	14-2	23-2	21-1	17-4	28-2	24-7	20-1
	No. 1	13-6	12-0	9-10	17-7	15-3	12-5	21-6	18-7	15-2	24-11	21-7	17-7
	No. 2	13-6	12-0	9-10	17-7	15-3	12-5	21-6	18-7	15-2	24-11	21-7	17-7
	No. 3	10-6	9-1	7-5	13-4	11-7	9-5	16-3	14-1	11-6	18-11	16-4	13-4
Spruce, Pine, Fir (Canada)	Sle. Struc.	13-3	12-0	10-6	17-5	15-10	13-10	22-3	20-2	17-0	27-1	24-1	19-8
	No. 1	12-11	11-3	9-2	16-5	14-3	11-8	20-1	17-5	14-2	23-3	20-2	16-6
	No. 2	12-11	11-3	9-2	16-5	14-3	11-8	20-1	17-5	14-2	23-3	20-2	16-6
	No. 3	9-10	8-6	6-11	12-5	10-9	8-9	15-2	13-2	10-9	17-7	15-3	12-5

ROOF RAFTERS
Roof slope greater than 3 in 12
No ceiling finish

30# SNOW LOAD, 15# DEAD LOAD, 1/180

Span (feet and inches)

Species or Group	Grade	2 x 6			2 x 8			2 x 10			2 x 12		
		12" oc 16" oc 24" oc			12" oc 16" oc 24" oc			12" oc 16" oc 24" oc			12" oc 16" oc 24" oc		
Doug-Fir Larch (Western)	Sel. Struc.	15-9	14-4	11-10	20-9	18-4	15-0	25-10	22-5	18-3	30-0	26-0	21-2
	No.1 & Btr.	14-11	12-11	10-6	18-10	16-4	13-4	23-0	19-11	16-3	26-8	23-1	18-11
	No. 1	13-11	12-0	9-10	17-7	15-3	12-5	21-6	18-7	15-2	24-11	21-7	17-7
	No. 2	13-0	11-3	9-2	16-5	14-3	11-8	20-1	17-5	14-2	23-3	20-2	16-6
	No. 3	9-10	8-6	6-11	12-5	10-9	8-9	15-2	13-2	10-9	17-7	15-3	12-5
Doug-Fir South (Western)	Sel. Struc.	14-3	12-11	11-2	18-9	17-0	14-2	23-11	21-2	17-4	28-5	24-7	20-1
	No. 1	13-2	11-5	9-4	16-8	14-5	11-9	20-4	17-8	14-5	23-7	20-5	16-8
	No. 2	12-7	10-11	8-11	16-0	13-10	11-3	19-6	16-11	13-9	22-7	19-7	16-0
	No. 3	9-7	8-3	6-9	12-1	10-6	8-7	14-10	12-10	10-6	17-2	14-10	12-2
Hem-Fir (Western)	Sel. Struc.	14-10	13-6	11-7	19-7	17-10	14-8	25-0	22-0	18-0	29-6	25-6	20-10
	No. 1 & Btr.	14-3	12-4	10-1	18-0	15-7	12-9	22-0	19-1	15-7	25-6	22-1	18-0
	No. 1	13-6	11-9	9-7	17-2	14-10	12-1	20-11	18-1	14-10	24-3	21-0	17-2
	No. 2	12-10	11-1	9-1	16-2	14-0	11-6	19-10	17-2	14-0	22-11	19-11	16-3
	No. 3	9-10	8-6	6-11	12-5	10-9	8-9	15-2	13-2	10-9	17-7	15-3	12-5
Spruce- Pine-Fir (South)	Sel. Struc.	13-10	12-7	11-0	18-3	16-7	14-2	23-4	21-2	17-4	28-5	24-7	20-1
	No. 1	12-10	11-1	9-1	16-2	14-0	11-6	19-10	17-2	14-0	22-11	19-11	16-3
	No. 2	12-0	10-5	8-6	15-3	13-2	10-9	18-7	16-1	13-2	21-7	18-8	15-3
	No. 3	9-1	7-10	6-5	11-6	9-11	8-1	14-0	12-1	9-11	16-3	14-1	11-6
Doug Fir Larch North (Canada)	Sle. Struc.	15-9	13-8	11-2	20-0	17-4	14-2	24-6	21-2	17-4			
	No. 1	12-7	10-11	8-11	16-0	13-10	11-3	19-6	16-11	13-9			
	No. 2	12-7	10-11	8-11	16-0	13-10	11-3	19-6	16-11	13-9			
	No. 3	9-7	8-3	6-9	12-1	10-6	8-7	14-10	12-10	10-6			
Hem-Fir North (Canada)	Sle. Struc.	15-2	13-8	11-2	20-0	17-4	14-2	24-6	21-2	17-4			
	No. 1	13-11	12-0	9-10	17-7	15-3	12-5	21-6	18-7	15-2			
	No. 2	13-11	12-0	9-10	17-7	15-3	12-5	21-6	18-7	15-2			
	No. 3	10-6	9-1	7-5	13-4	11-7	9-5	16-3	14-1	11-6			
Spruce, Pine, Fir (Canada)	Sle. Struc.	14-7	13-3	11-0	19-2	17-0	13-11	24-0	20-9	17-0			
	No. 1	13-0	11-3	9-2	16-5	14-3	11-8	20-1	17-5	14-2			
	No. 2	13-0	11-3	9-2	16-5	14-3	11-8	20-1	17-5	14-4			
	No. 3	9-10	8-6	6-11	12-5	10-9	8-9	15-2	13-2	10-9			

FASTENING SCHEDULE

BUILDING ELEMENT	NAIL SIZE AND TYPE	NUMBER AND LOCATION
Roof and ceiling construction		
Ceiling joists to plate	16d common	3 toe nail
Ceiling joists (laps over partition)	10d common	3 direct nail
Ceiling joists (parallel to rafter)	10d common	3 direct nail
Collar beam	10d common	3 direct
Roof rafter to plate	8d common	3 toe nail
Roof rafter to ridge	16d common	2 toe nail or direct nail
Jack rafter to hip	10d common or 16d common	3 toe nail or 2 direct nail
1" roof decking (6" or less in width)	8d common	2 each direct rafter
1" roof decking (over 6" in width)	8d common	3 each direct rafter

FASTENING SCHEDULE

BUILDING ELEMENT	NAIL SIZE AND TYPE	NUMBER AND LOCATION
ROOF COVERINGS		
MATERIAL	FASTENER STYLE 2	SPACING SPECIFICATIONS 4
Base ply and roofing plies	12 ga. Roofing nail 6	Nails driven through tin discs, spaced maximum 12" o.c.
Asphalt shingles	12 ga. 3/8" HD roofing nail	2 nails per each 36" - 40" section of shingle
Asphalt hip and ridge shingles	12 ga. 3/8" HD roofing nail	2 nails are required for each hip and ridge shingle
Wood shingles 3	.076 shingle nail .080 T-nail	24" shingle 2 fasteners per shingle
Wood shingle 3	.080 shingle nail .080 T-nail	24" shingle 2 fasteners per shingle
Wood shakes 3	.0915 shingle nail .0915 to .099 T-nail	2 nails per shake
Particle board roof and wall sheathing (1/2" or less)	6d common	6" o.c. direct edges and 12" o.c. intermediate
5/8" or greater	8d common	6" o.c. direct edges and 12" o.c. intermediate
Wood structural panel roof and wall sheathing (1/2" or less)	6d common	6" o.c. direct edges and 12" intermediate

(19/32" or greater)	8d common	6" o.c. direct edges and 12" o.c. intermediate
Weatherboarding	8d corrosion resistant	2 each bearing

1. Shingles and shakes attached to roof sheathing having the underside of the sheathing exposed to visual view may be attached in these locations with nails having shorter lengths than specified so as not to penetrate the exposed side of the sheathing.
2. All nails shall be corrosion resistant.
3. Nails may have T-heads, clipped round heads or standard heads.
4. Roof coverings shall be fastened in an approved manner.
5. Nails shall be long enough to penetrate into the sheathing 3/4" or through the thickness of the sheathing, whichever is less.
6. Annularly threaded nails with minimum 1" diameter heads shall be used for plywood decks.
 - a. Shingle nails shall penetrate not less than 3/4" into nailing strips, sheathing or supporting construction except as otherwise provided for in Section 1507.0.

FASTENING SCHEDULE

BUILDING ELEMENT	NAIL SIZE AND TYPE	NUMBER AND LOCATION
Wall and Roof Sheathing		
1" wall sheathing (8" or less in width)	8d common	2 each direct stud
1" wall sheathing (over 8" in width)	8d common	3 each direct
Diagonal wall sheathing (seismic bracing)	See Table 2306.4.5	
½" fiberboard sheathing	1 ½" galvanized roofing nail or 6d common nail	3" o.c. exterior edge 6" o.c. intermediate
25/32" fiberboard sheathing	1 ¾" galvanized roofing nail or 8d common nail	3" o.c. exterior edge 6" o.c. intermediate
Gypsum sheathing	12 ga. 1 ¼" large head, corrosion resistant	4" o.c. on edge 8" o.c. intermediate
Gypsum sheathing (seismic bracing)	11 ga. 1 ¾" long 7/16" head, diamond point, galvanized	4" o.c. all bearing points

FASTENING SCHEDULE

BUILDING ELEMENT	NAIL SIZE AND TYPE	NUMBER AND LOCATION
WALL CONSTRUCTION		
Stud to sole plate	8d common	4 toe nail or 2 direct nail
Stud to cap plate	16d common	2 toe nail or 2 direct nail
Double studs	10d common	12" o.c. direct
Corner studs	16d common	24" o.c. direct
Sole plate to joist or blocking	16d common	16" o.c.
Interior-braced wall sole plate to parallel joist	16d common	12" o.c.
Double cap plate	10d common	12" o.c.
Cap plate laps	10d common	2 direct nail
Ribbon strip 6" or less	10d common	2 each direct bearing
Ribbon strip 6" or more	10d common	3 each direct bearing
Diagonal brace (to stud and plate)	8d common	2 each direct bearing
Interior-braced wall top plate to joist or blocking	10d common	12" o.c.
Tall beams to headers (where nailing is permitted)	20d common	1 each end 4 sq. ft. floor area
Header beams to trimmers (where nailing is permitted)	20d common	1 each end 8 sq. ft. floor area
Continuous header to stud	8d common	4 toe nail
Continuous header two pieces	16d common	16" o.c. direct

OTHER GYPSUM INSTALLATION (NAILS)

Thickness of gypsum wall-board inches	Plane of framing surface	Long dimension of gypsum wallboard sheets in relation to direction of framing members	Maximum spacing of framing members center to center in inches	Maximum spacing of fasteners center to center in inches	nails (a) to wood
1/2"	Horizontal	Either direction	16	7	No. 13 ga., 1 5/8" long, 19/64" head, .098" diameter, 1 3/8" long, annular ringed, 6d cooler nail
	Horizontal	Perpendicular	24	7	
	Vertical	Either Direction	24	8	
1/2" or 5/8" with adhesive	Horizontal	Either direction	16	16	As required for 1/2" and 5/8" gypsum wallboard, see above
	Horizontal	Perpendicular	24	12	
	Vertical	Either direction	24	16	

2 layers each 3/8" (3/4" total)	Horizontal	Perpendicular or Either Direction	24	16	Base ply nailed as required for 1/2" gypsum wallboard and face ply placed with adhesive
	Vertical		24	24	

a. Where the metal framing has a clinching design formed to receive the nails by two edges of metal, the nails shall not be less than 5/8" longer than the wallboard thickness, and shall have ringed shanks. Where the metal framing has a nailing groove formed to receive the nails, the nails shall have barbed shanks or be 5d cooler nails (No. 13-1/2 ga., 1-5/8" long, 15/16" head). For 1/2" gypsum wallboard; 6d cooler (No. 13 ga., 1-7/8" long, 15/64" head) for 5/8" gypsum wallboard.

b. Two nails at 2" to 2-1/2" apart are permitted to be used if the pairs are spaced 12" center-to-center except around perimeters.

c. For fire-resistance rated construction assemblies, see the pertinent fire test information.

d. One inch equals 25.4 mm.

OTHER GYPSUM INSTALLATION (SCREWS)

Thickness of gypsum wall board inches	Plane of framing surface	Long dimension of gypsum wallboard sheets in relation to direction of framing members	maximum spacing of framing members center to center in inches	Maximum spacing of fasteners center to center in inches	Nails (a) to wood
1/2"	Horizontal	Either direction	16	12	No. 13 ga., 1-3/8" long, 19/64" head .098" diameter, 1-1/4" long, annular ringed 5d cooler nail
	Horizontal	Perpendicular	24	12	
	Vertical	Either direction	24	12	
5/8"	Horizontal	Either direction	16	12	no. 13 ga., 1-5/8" long, 19/64" head, .098" diameter, 1-3/8" long, annular ringed, 6d cooler nail
	Horizontal	Perpendicular	24	12	
	Vertical	Either Direction	24	12	
1/2" or 5/8" with adhesive	Horizontal	Either direction	16	16	As required for 1/2" and 5/8" gypsum wallboard, see above
	Horizontal	Perpendicular	24	16	
	Vertical	Either direction	24	24	

2 Layers each 3/8" (3/4" total)	Horizontal	Perpendicular or Either direction	24	6	Base ply nailed as required for 1/2" gypsum wallboard and face ply placed with adhesive
	Vertical		24	24	

- a. Screws shall be No. 6 with tapered head and long enough to penetrate into wood framing not less than 5/8" and metal framing not less than 1/4".
- b. For fire-resistance rated construction assemblies, see the pertinent fire test information.
- c. One inch equals 25.4 mm.

THICKNESS OF PLASTER
FINISHED THICKNESS OF PLASTER FROM FACE OF LATH,
MASONRY, CONCRETE

PLASTER BASE	GYPSUM PLASTER	PORTLAND CEMENT MORTAR
Expanded metal lath	5/8" minimum (1)	5/8" minimum (1)
Wire lath	5/8" minimum (1)	3/4" minimum (interior) (2) 7/8" minimum (exterior) (2)
Gypsum lath	1/2" minimum	
Masonry walls (3)	1/2" minimum	1/2" minimum
Monolithic concrete walls (3,4)	5/8" maximum	7/8" maximum
Monolithic concrete ceilings (3,4)	3/8" maximum (5)	1/2" maximum
Gypsum veneer base (6)	1/16" minimum	

For SI: 1 inch + 25.4 mm.

- (1) When measured from back plane of expanded metal lath, exclusive of ribs, or self-furring lath, plaster thickness shall be 3/4" minimum.
- (2) When measured from face of support or backing.
- (3) Because masonry and concrete surfaces may vary in plane, thickness of plaster need not be uniform.
- (4) When applied over liquid bonding agent, finish coat may be applied directly to concrete surface.
- (5) Approved acoustical plaster may be applied directly to concrete or over base coat plaster, beyond the maximum plaster thickness shown.
- (6) Attachment shall be in accordance with table (APPLICATION AND MINIMUM THICKNESS OF GYPSUM WALLBOARD).

GYPSUM PLASTER PROPORTIONS (1)

MAXIMUM VOLUME

AGGREGATE PER
100 POUNDS MEAT PLASTER (2)

NUMBER	COAT	PLASTER BASE OR LATH	DAMP LOOSE SAND	PERLITE OR VERMICULITE
Two-coat work	Base coat	Gypsum lath	2 ½	2
Two-coat work	Base coat	Masonry	3	3
Three-coat work	First coat	Lath	2 (4)	5
Three-coat work	Second coat	lath	3 (4)	2 (5)
Three-coat work	First and Second coats	Masonry	3	3

For SI: 1 inch = 25.4 mm. 1 cubic foot = 0.0283 m to the third power, 1 pound = 0.454 kg.

- (1) Wood-fibered gypsum plaster may be mixed in the portions of 100 pounds of gypsum to not more than 1 cubic foot of sand where applied on masonry or concrete.
- (2) When determining the amount of aggregate in set plaster, a tolerance of 10 percent shall be allowed.
- (3) Combinations of sand and lightweight aggregate may be used, provided the volume and weight relationship of the combined aggregate to the gypsum plaster is maintained.
- (4) If used for both first and second coats, the volume of aggregate may be 2 ½ cubic feet.
- (5) Where plaster is 1 inch or more in total thickness, the proportion for the second coat may be increased to 3 cubic feet.

MORTAR PROPORTIONS

PROPORTIONS BY VOLUME (Cementitious Materials)							
Mortar	Type	Portland Cement or Bleached Cement	Masonry Cement			Hydrated Lime or Lime Putty	Aggregate Ratio Measured in Damp, Loose Condition
			M	S	N		
Cement-Lime	M	1	—	—	—	1/4	Not less than 2 1/4 and not more than 3 times the sum of separate volumes of lime, if used, and cement
	S	1	—	—	—	Over 1/4 to 1/2	
	N	1	—	—	—	Over 1/2 to 1 1/4	
	O	1	—	—	—	Over 1 1/4 to 2 1/2	
Masonry Cement	M	1	—	—	1	Not less than 2 1/4 and not more than 3 times the sum of separate volumes of lime, if used, and cement	
	M	—	1	—	—		
	S	1/2"	—	—	1		
	S	—	—	1	—		
	N	—	—	—	1		
O	—	—	—	—	1		

For SI: 1 cubic foot = 0.0283 m to the third power, 1 pound = 0.454kg

1. For the purpose of these specifications, the weight of 1 cubic foot of the respective materials shall be considered to be as follows:

Portland Cement	94 lb.
Masonry Cement	Weight printed on the bag
Hydrated Lime	40 lb.
Lime Putty (Quicklime)	80 lb.
Sand, damp and loose	80 lb.

2. Two air-entraining materials shall not be combined in mortar

GROUT PROPORTIONS BY VOLUME FOR MASONRY CONSTRUCTION

AGGREGATE MEASURED IN A DAMP, LOOSE CONDITION

Type	Portland Cement or Blended Concrete Slag Cement	Hydrate Lime or Lime Putty	Fine	Coarse
Fine	1	0 to 1/10	2 1/4 to 3 times the sum of the volume of the cementitious materials	—
Coarse	1	0 to 1/10	2 1/4 to 3 times the sum of the volume of the cementitious materials	1 to 2 times the sum of the Volumes of the cementitious materials

Siding

TYPE OF SUPPORTS FOR SIDING MATERIAL
AND FASTENERS

Siding Material	Normal Thickness (Inches)	Plywood Particle board	Fiberboard	Gypsum
Horizontal Aluminum siding Without insulation	.019	.120 nail-1-1/2"	.120 nail-2"	.120 nail-2"
	.024	.120 nail-1-1/2"	.120 nail-2"	.120 nail-2"
With insulation	.019	.120 nail-1-1/2"	.120 nail-2-1/2"	.120 nail-2-1/2"

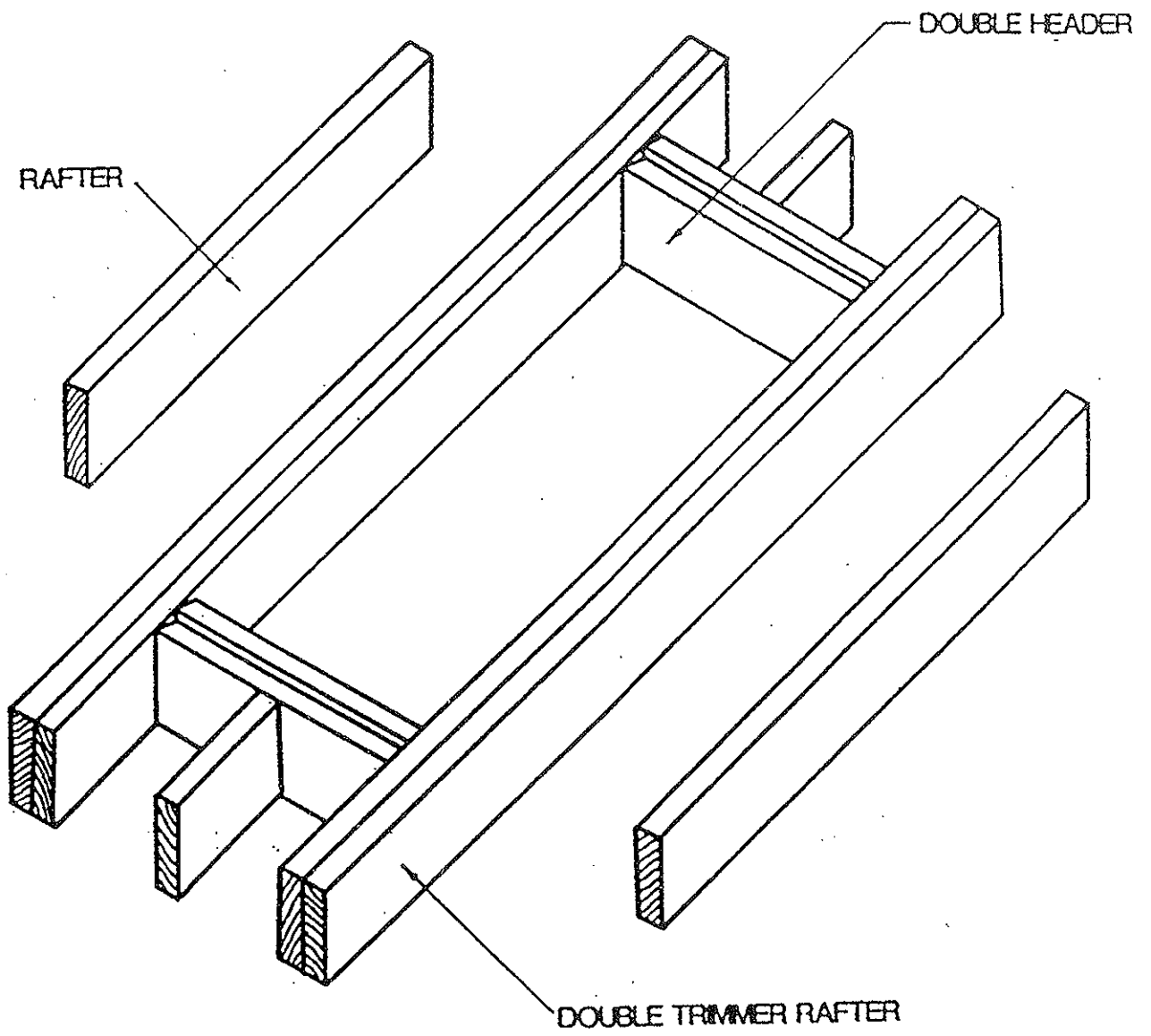
GYPSUM PLASTER PROPORTIONS (1)

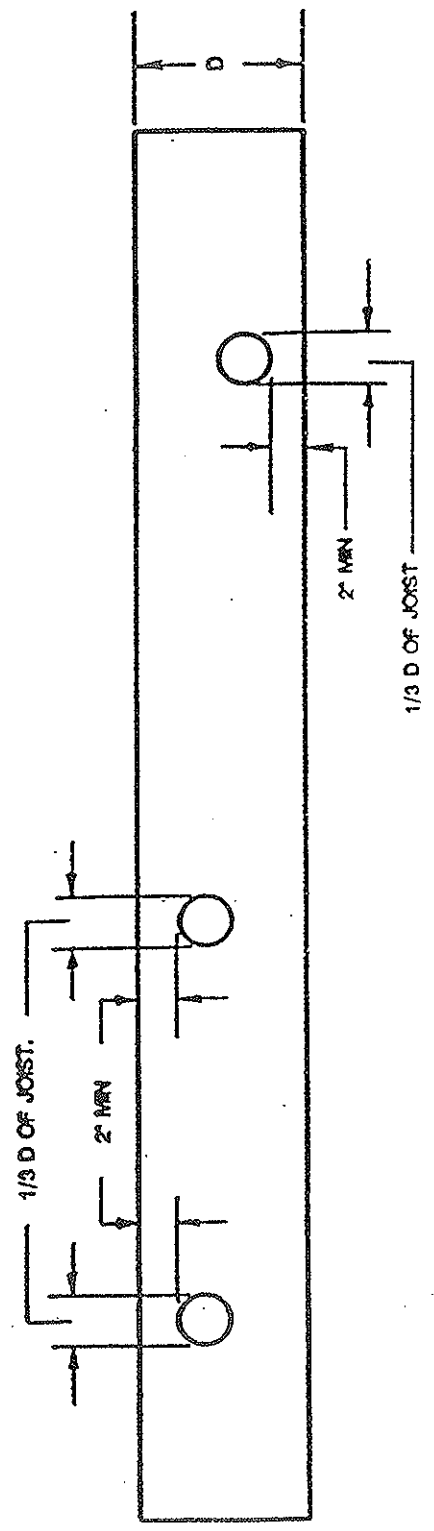
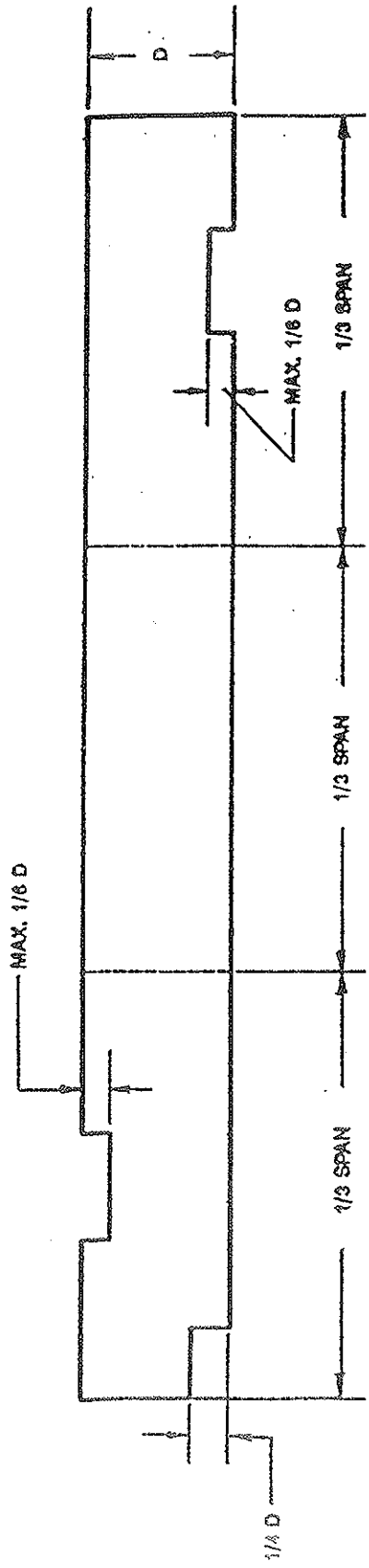
MAXIMUM VOLUME AGGREGATE PER
100 POUNDS MEAT PLASTER (2)

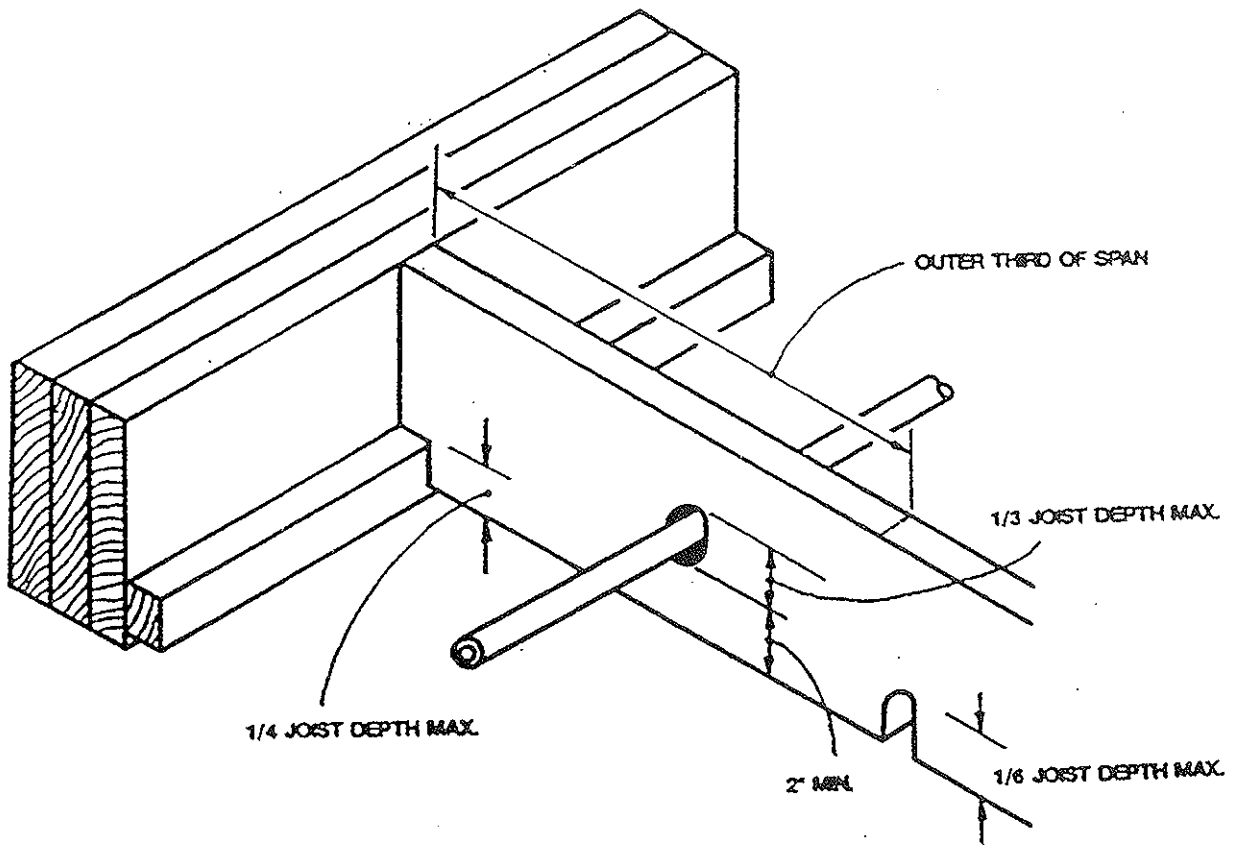
NUMBER	COAT	PLASTER BASE OR LATH	DAMP LOOSE SAND	PERLITE OR VERMICULITE
Two-coat work	Base coat	Gypsum lath	2 1/2	2
Two-coat work	Base coat	Masonry	3	3
Three-coat work	First coat	Lath	2 (4)	5
Three-coat work	Second coat	lath	3 (4)	2 (5)
Three-coat work	First and Second coats	Masonry	3	3

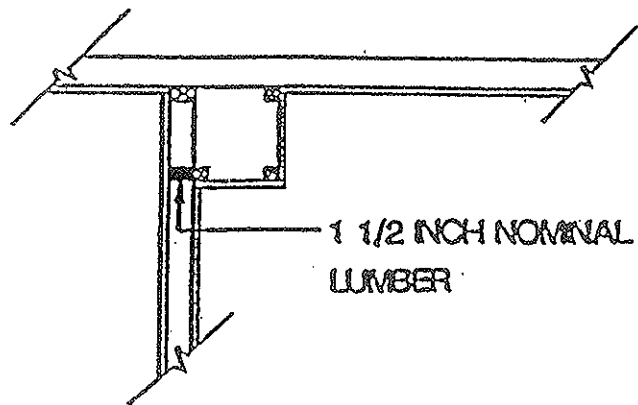
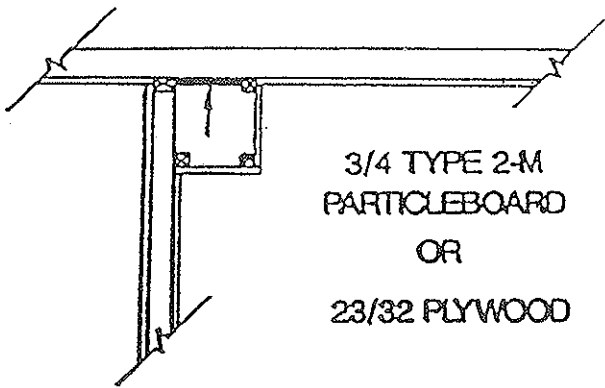
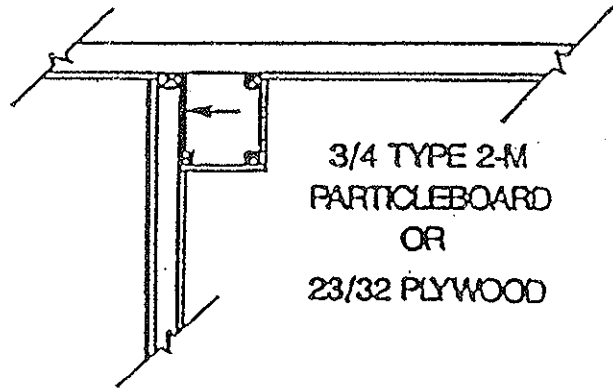
For SI: 1 inch = 25.4 mm. 1 cubic foot = 0.0283 m³ to the third power, 1 pound = 0.454 kg.

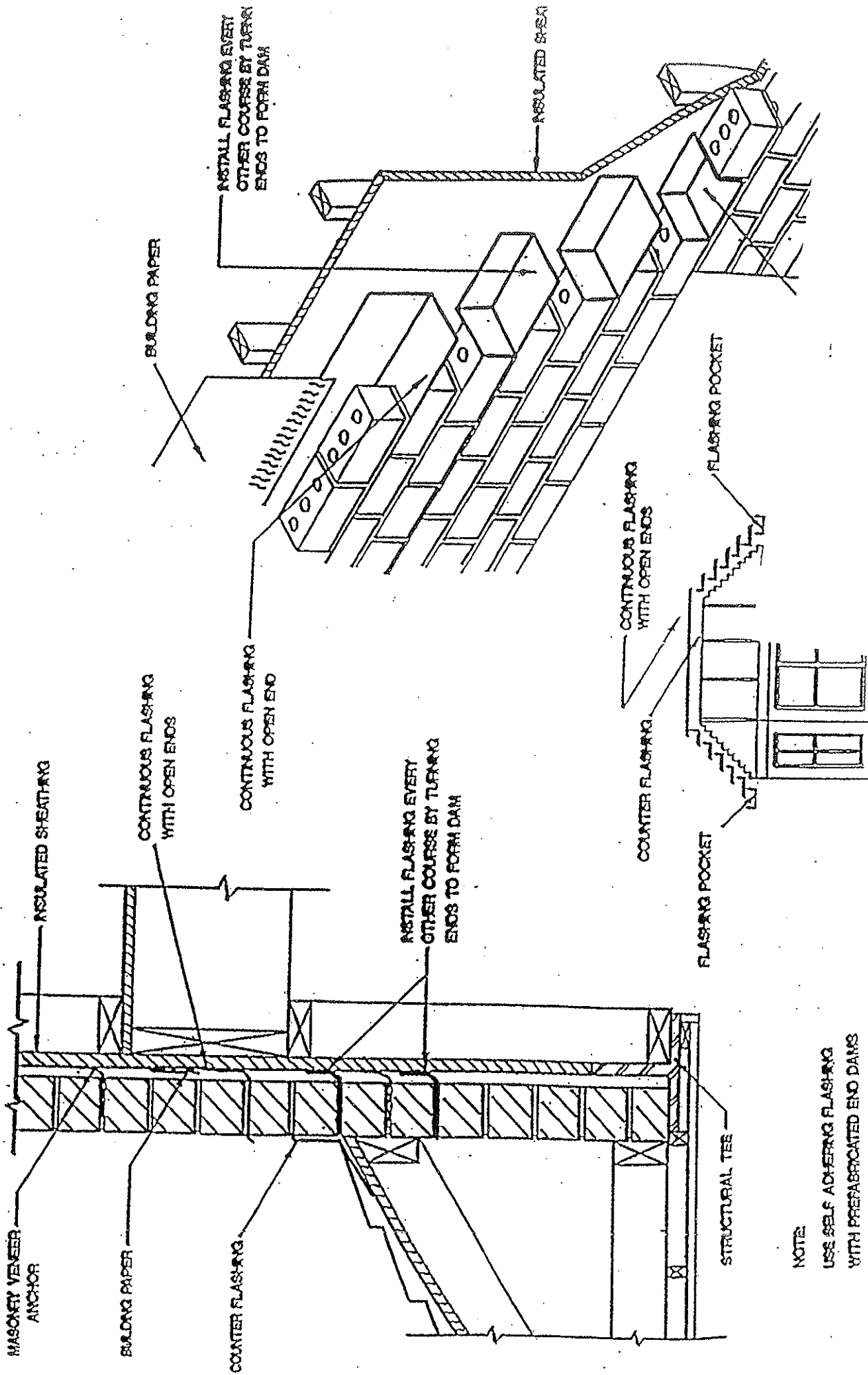
- (1). Wood-fibered gypsum plaster may be mixed in the portions of 100 pounds of gypsum to not more than 1 cubic foot of sand where applied on masonry or concrete.
- (2). When determining the amount of aggregate in set plaster, a tolerance of 10 percent shall be allowed.
- (3). Combinations of sand and lightweight aggregate may be used, provided the volume and weight relationship of the combined aggregate to the gypsum plaster is maintained.
- (4). If used for both first and second coats, the volume of aggregate may be 2 1/2 cubic feet.
- (5). Where plaster is 1 inch or more in total thickness, the proportion for the second coat may be increased to 3 cubic feet.







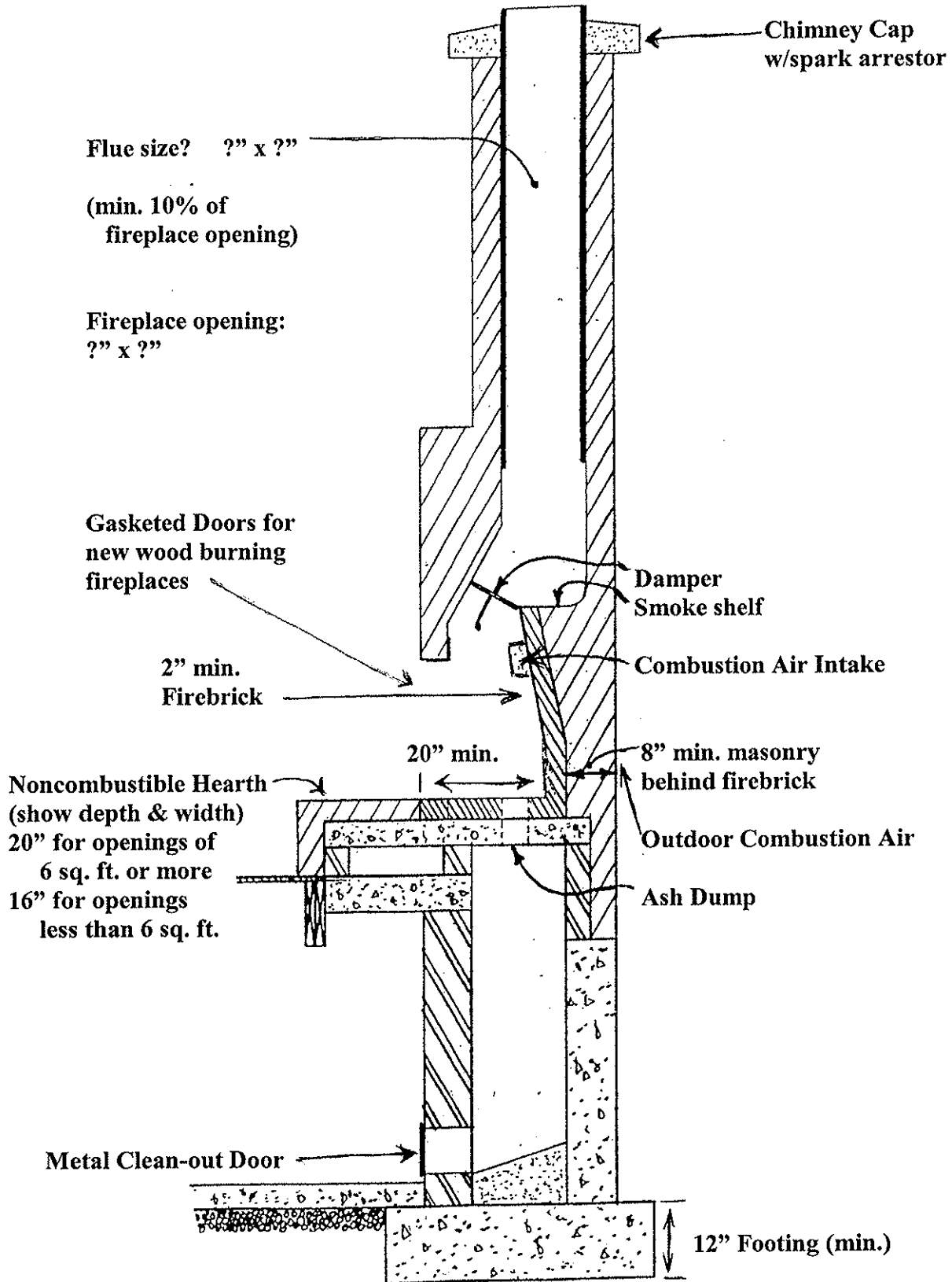


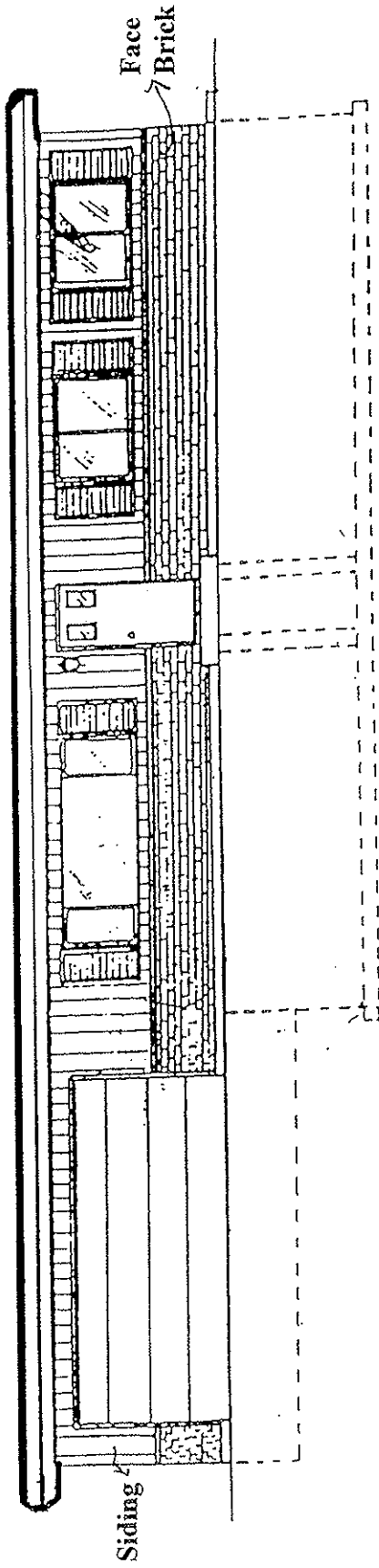


NOTE:
 USE SELF ADHERING FLASHING
 WITH PREFABRICATED END DAMS

FIREPLACE SECTION

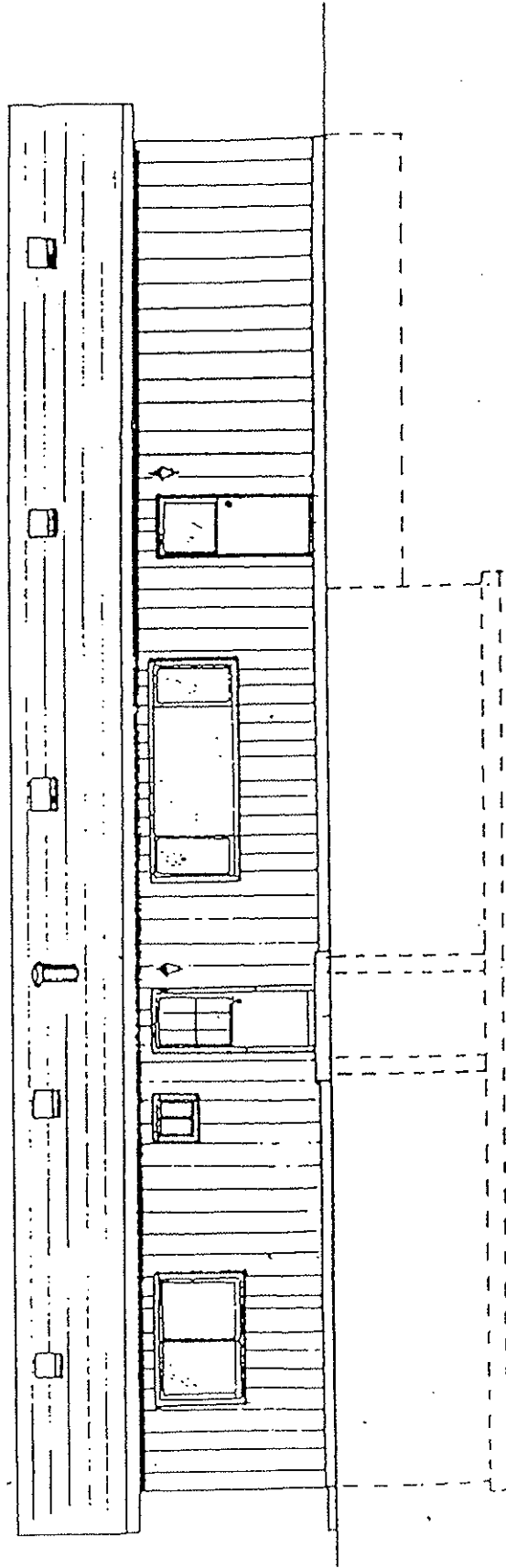
SAMPLE ONLY





FRONT ELEVATION

Scale: 1/8" = 1'0"

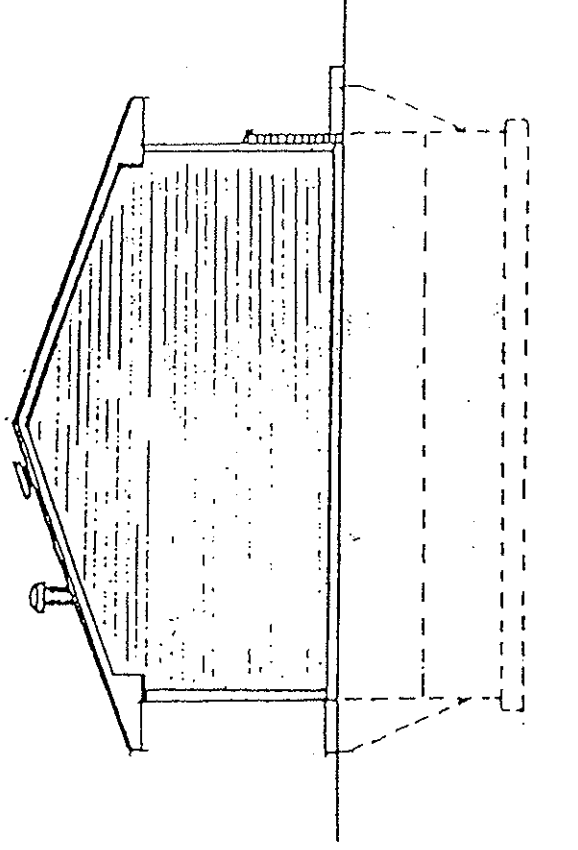


REAR ELEVATION

Scale: 1/8" = 1'0"

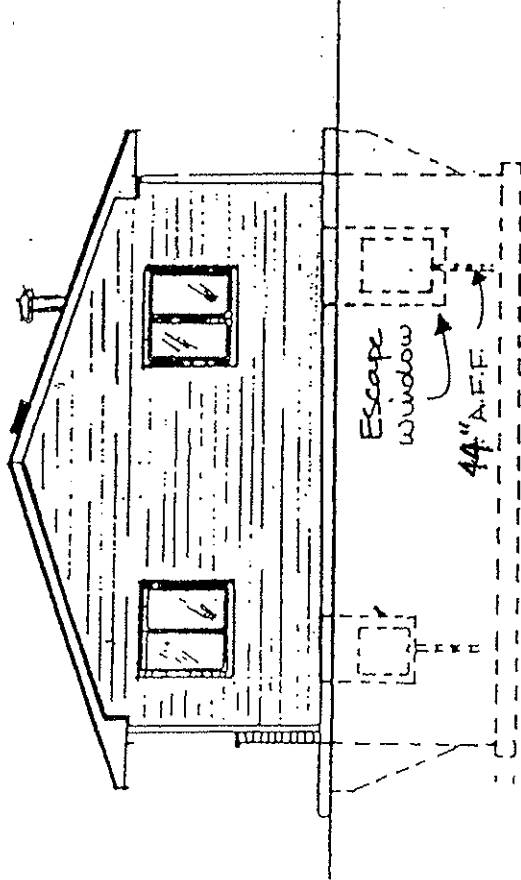
SAMPLE ONLY

SAMPLE ONLY



LEFT ELEVATION

Scale: 1/8" = 1' 0"

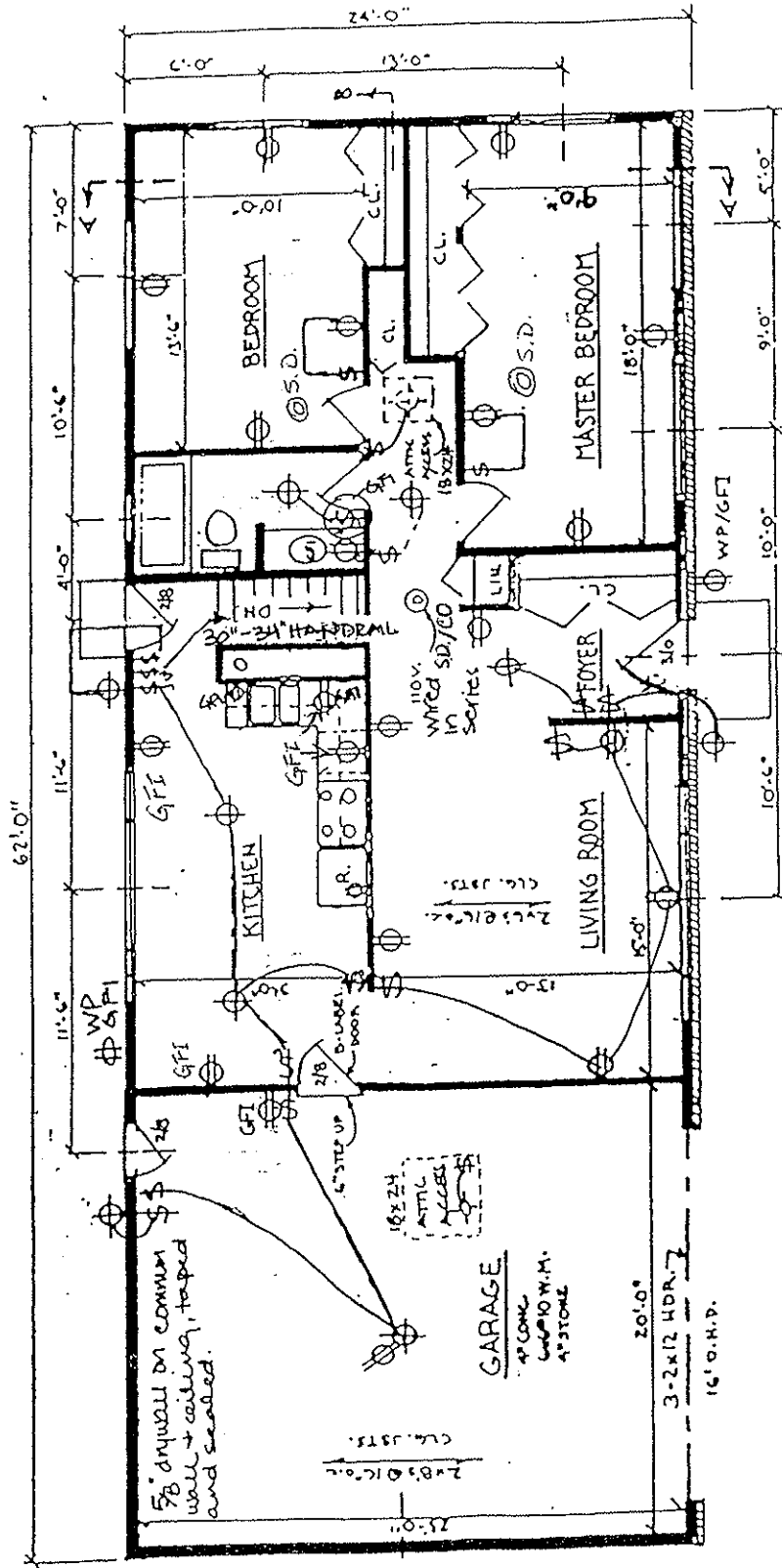


RIGHT ELEVATION

Scale: 1/8" = 1' 0"

SAMPLE ONLY

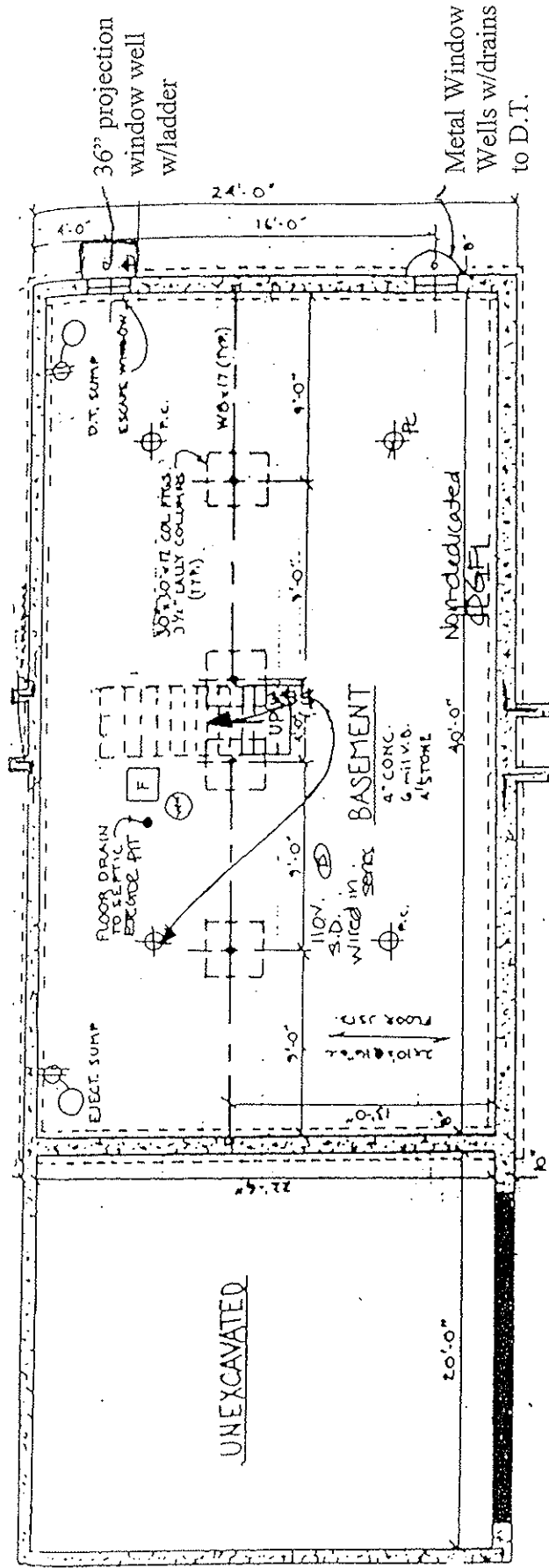
For diagrammatic purposes only! May not illustrate every code requirement.
See appropriate sections in building code book.



FLOOR PLAN
Scale: 1/8" = 1'0"

SAMPLE ONLY

For diagrammatic purposes only! May not illustrate every code requirement.
See appropriate sections in building code book.



Depress Foundation 6"

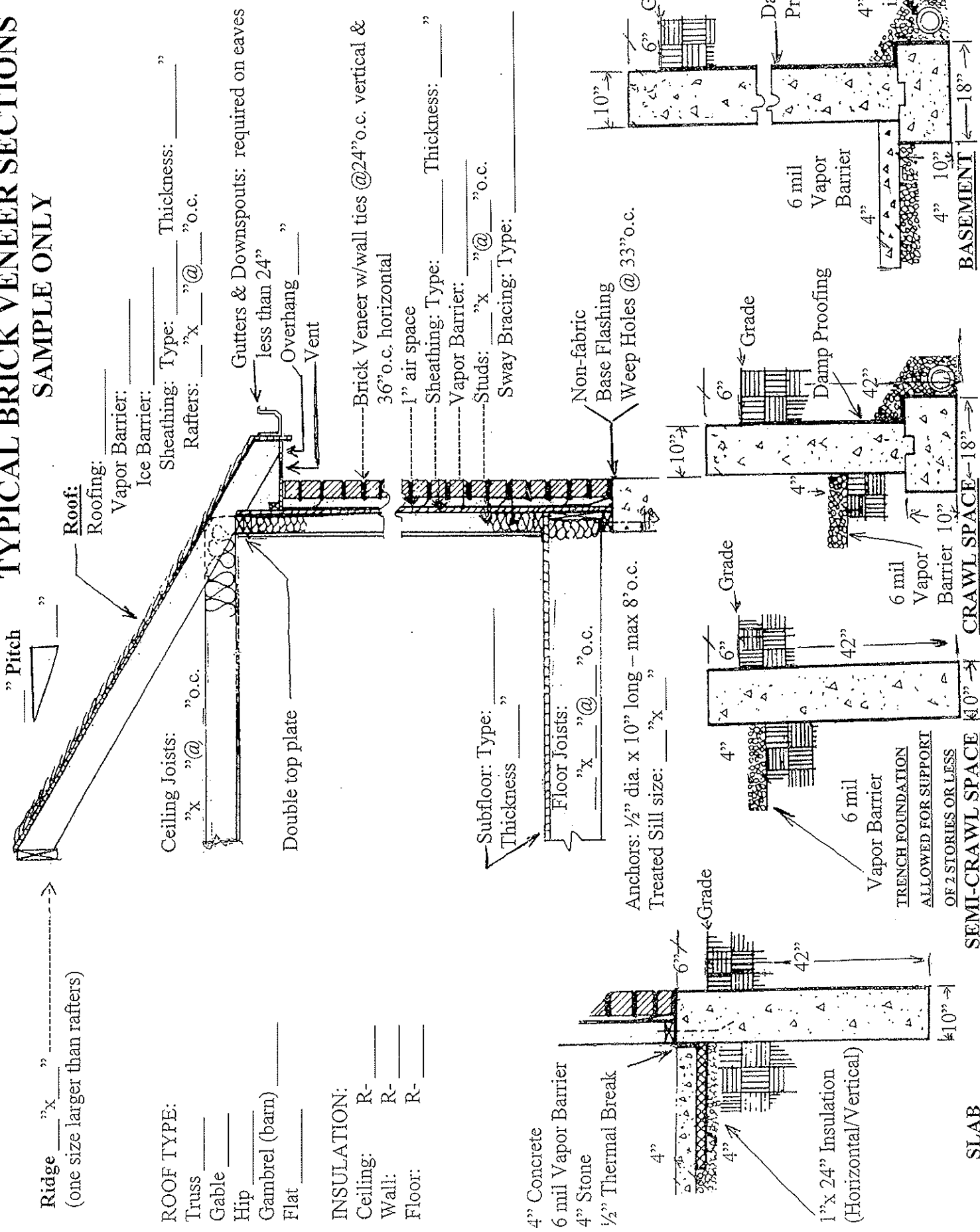
Wing Walls

FOUNDATION PLAN

Scale: 1/8" = 1'0"

TYPICAL BRICK VENEER SECTIONS

SAMPLE ONLY



Ridge "x "
 (one size larger than rafters)

Roof TYPE: _____
 Truss _____
 Gable _____
 Hip _____
 Gambrel (barn) _____
 Flat _____

Roofing: _____
 Vapor Barrier: _____
 Ice Barrier: _____
 Sheathing: Type: _____ Thickness: _____
 Rafters: "x "@ "o.c.

Subfloor: Type: _____ Thickness: _____
 Floor Joists: "x "@ "o.c.

Brick Veneer w/wall ties @24"o.c. vertical & 36"o.c. horizontal
 1" air space
 Sheathing: Type: _____ Thickness: _____
 Vapor Barrier: _____
 Studs: "x "@ "o.c.
 Sway Bracing: Type: _____

Gutters & Downspouts: required on eaves
 less than 24"
 Overhang _____
 Vent _____

Double top plate

INSULATION:
 Ceiling: R- _____
 Wall: R- _____
 Floor: R- _____

4" Concrete
 6 mil Vapor Barrier
 4" Stone
 1/2" Thermal Break
 1"x 24" Insulation (Horizontal/Vertical)

Anchors: 1/2" dia. x 10" long - max 8"o.c.
 Treated Sill size: "x "

6 mil Vapor Barrier
 TRENCH FOR SUPPORT ALLOWED FOR SUPPORT OF 2 STORIES OR LESS
 SEMI-CRAWL SPACE

6 mil Vapor Barrier
 CRAWL SPACE

6 mil Vapor Barrier
 BASEMENT

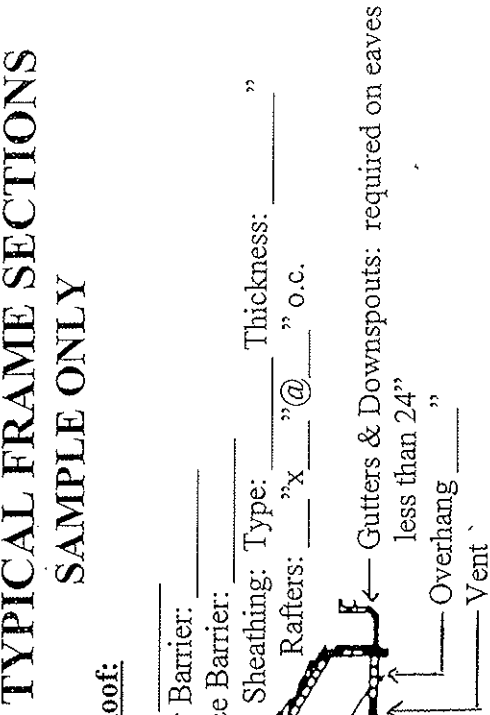
4" Drain Tile in 12" Stone cover

SLAB

TYPICAL FRAME SECTIONS

SAMPLE ONLY

Ridge "x" "
 (one size larger than rafters)



ROOF TYPE:
 Truss _____
 Gable _____
 Hip _____
 Gambrel (barn) _____
 Flat _____

INSULATION:
 Ceiling: R- _____
 Wall: R- _____
 Floor: R- _____

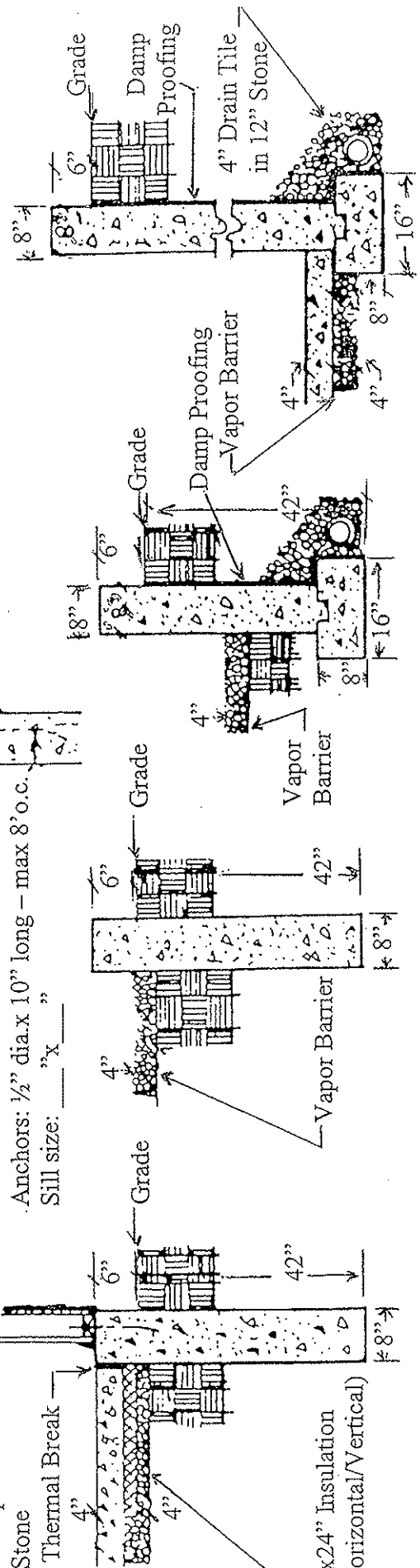
Stucco: Type: _____
 Siding: Type: _____
 Sheathing: Type: _____ Thickness: _____
 Sway Bracing: Type: _____
 Studs: "x" "@ _____" o.c.

Vapor Barrier: _____

Subfloor: Type: _____
 Thickness: _____
 Floor Joists: "x" "@ _____" o.c.

Anchors: 1/2" dia. x 10" long - max 8' o.c.
 Sill size: "x" "

4" Concrete
 6 mil Vapor Barrier
 4" Stone
 1/2" Thermal Break
 4" _____
 4" _____
 1"x24" Insulation (Horizontal/Vertical)



BASEMENT

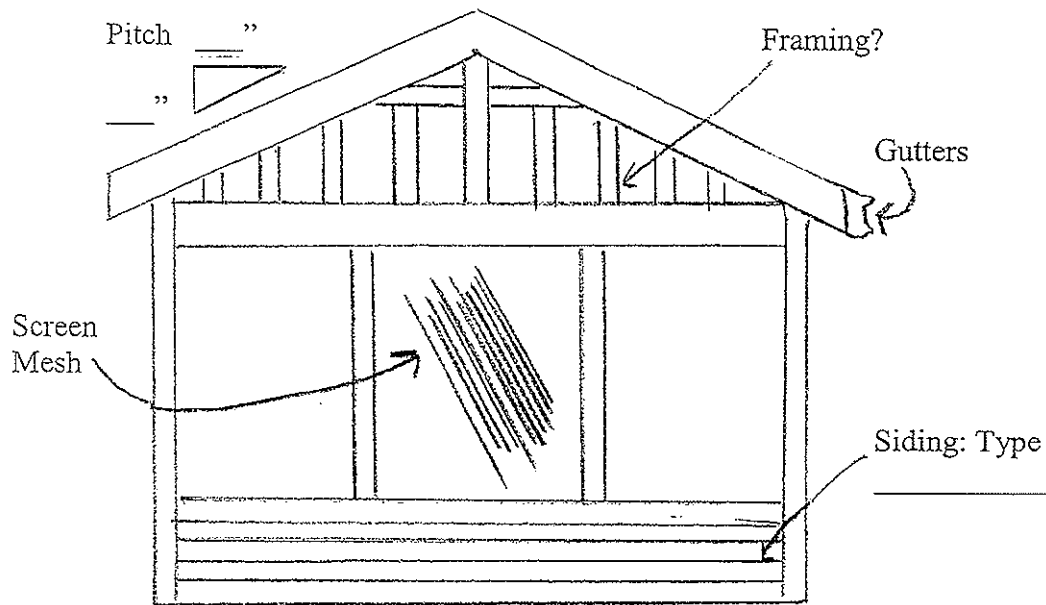
CRAWL SPACE

SEMI-CRAWL SPACE

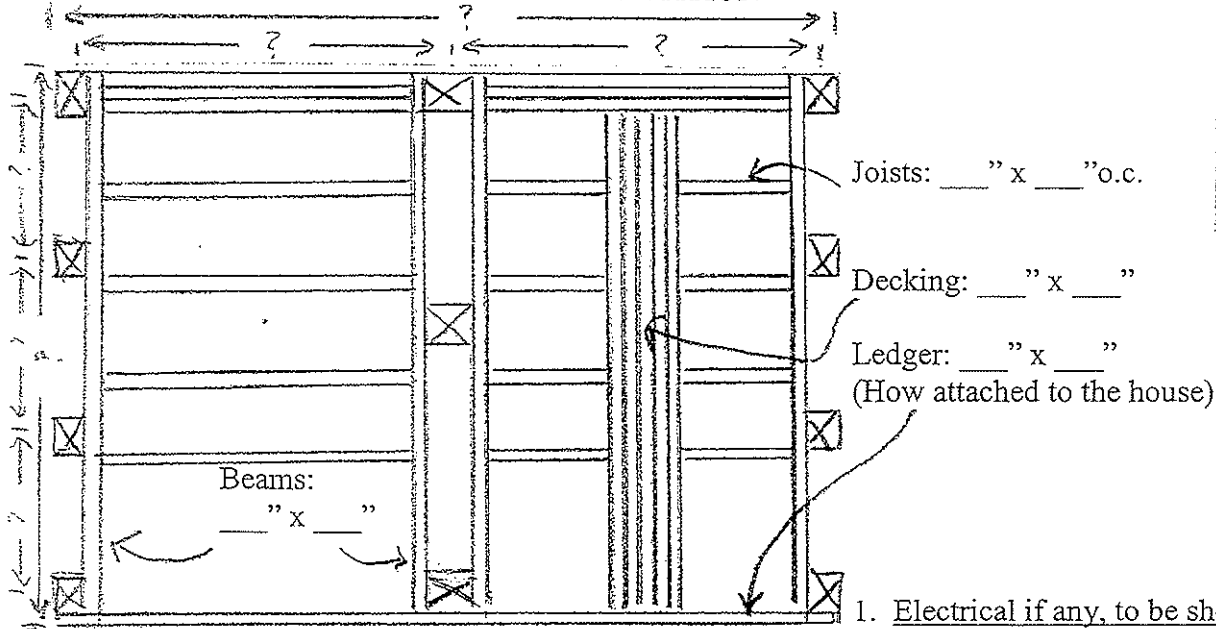
SLAB

SCREENED PORCH

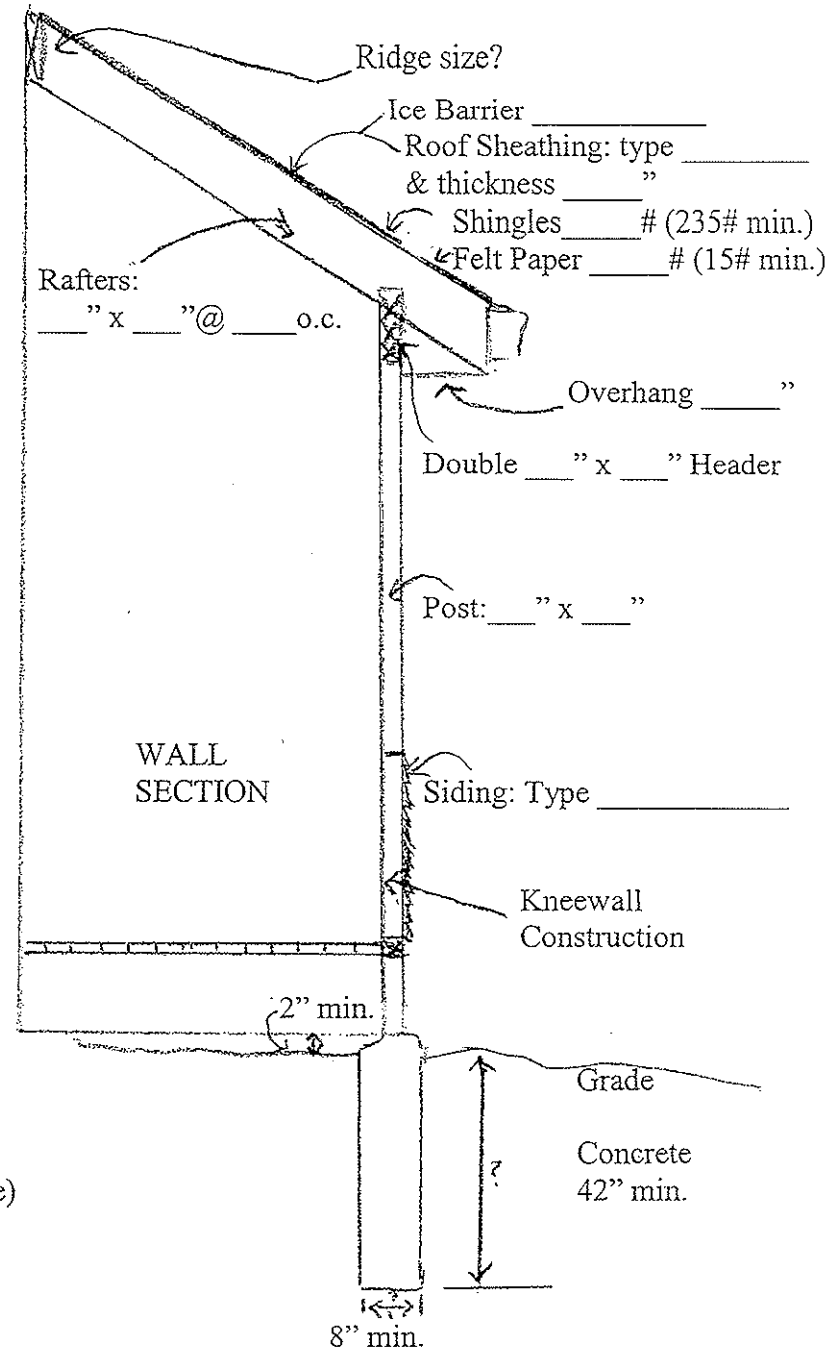
SAMPLE ONLY



FRONT ELEVATION



FLOOR PLAN



WALL SECTION

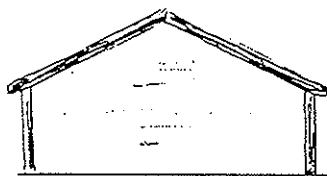
1. Electrical if any, to be shown on floor plan
2. Existing door from house and existing exterior light to be shown
3. Lumber for substructure decking and uprights to be treated or approved weather resistant species

TYPICAL DETACHED GARAGE

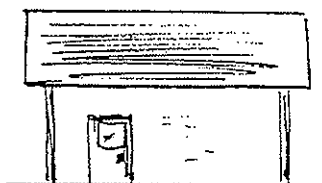
TO BE USED AS SAMPLE ONLY!

***Only required if over 150 sq. ft.

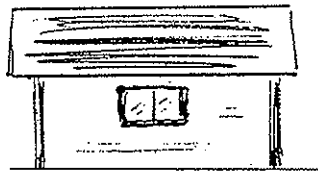
Note! Fire rated w/ 5/8" drywall on walls (within 10' of principle structure) and entire ceiling w/attic access if structure is closer than 10' from principle structure.



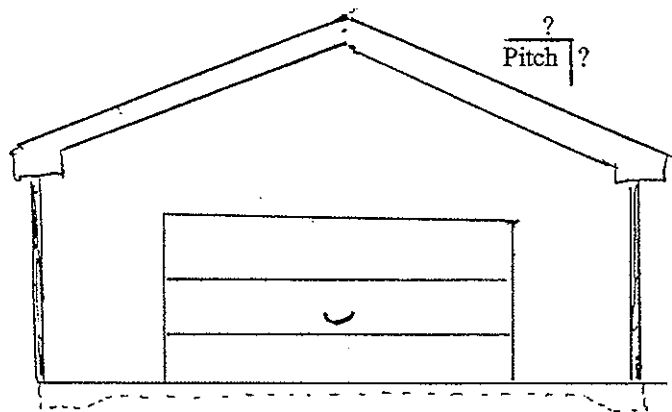
REAR



RIGHT SIDE



LEFT SIDE

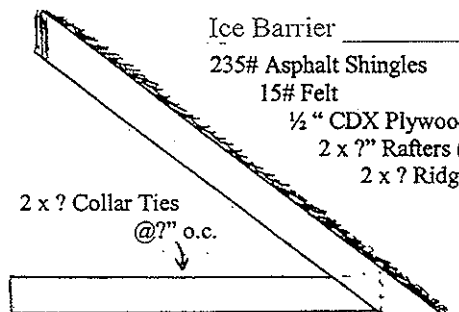


FRONT ELEVATION

ROOF

Ice Barrier
 235# Asphalt Shingles
 15# Felt
 1/2" CDX Plywood Sheathing
 2 x ?" Rafters @ ?" o.c.
 2 x ? Ridge

2 x ? Collar Ties @ ?" o.c.

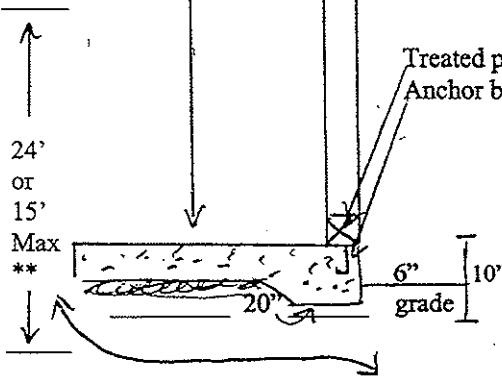


Garage will need gutters if the overhang is less than 24"
WALL

Studs: 2 x ? @ ?" o.c.
 Sheathing type?
 Sway bracing type?
 Siding type?

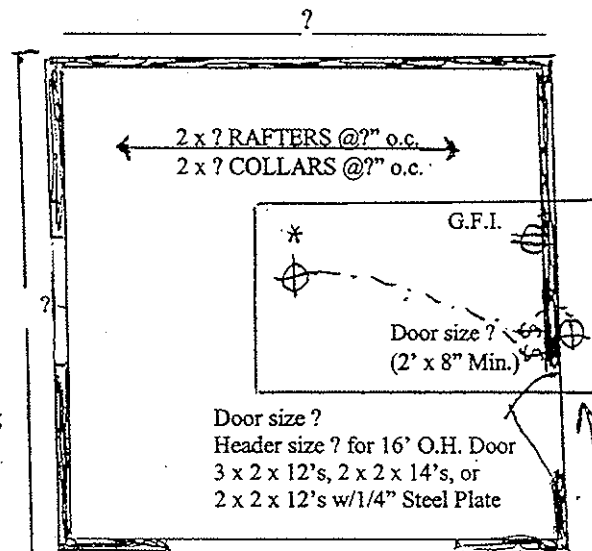
Treated plate
 Anchor bolts: 1/2" x 10" - MAX. 8' o.c.

SLAB (thickened)
 4" concrete
 6 x 6 #10 wire mesh
 4" stone



CROSS SECTION

**Maximum height depends on lot size



FLOOR PLAN

Show any electrical - if outlets are installed, they must be on a GFI circuit (electric shown is MINIMUM required)

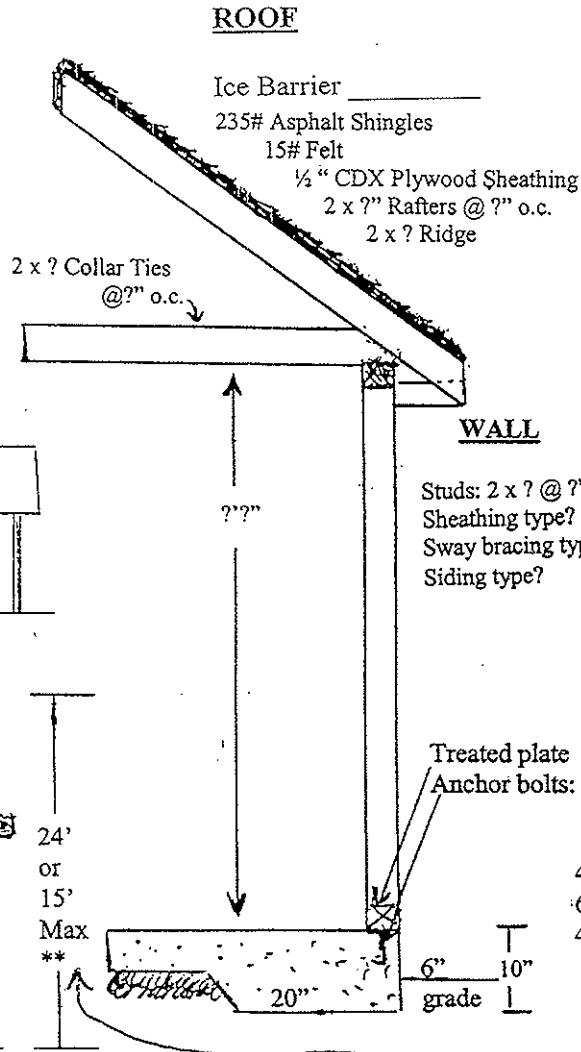
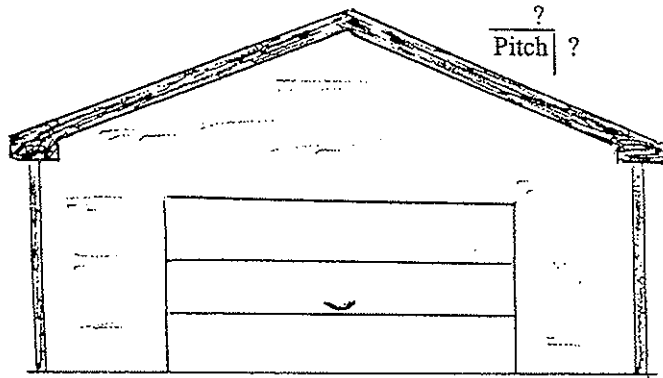
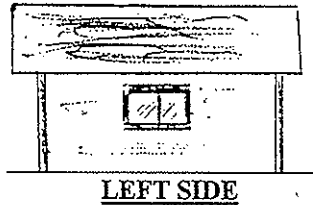
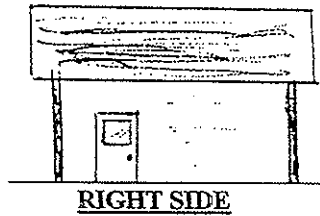
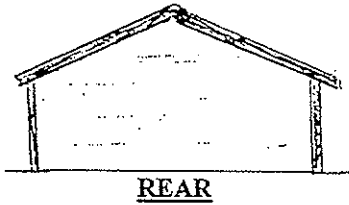
*Only show if having a side door and/or electric

Note! Fire rated w/ 5/8" drywall on walls (within 10' of principle structure) and entire ceiling w/attic access if structure is closer than 10' from principle structure

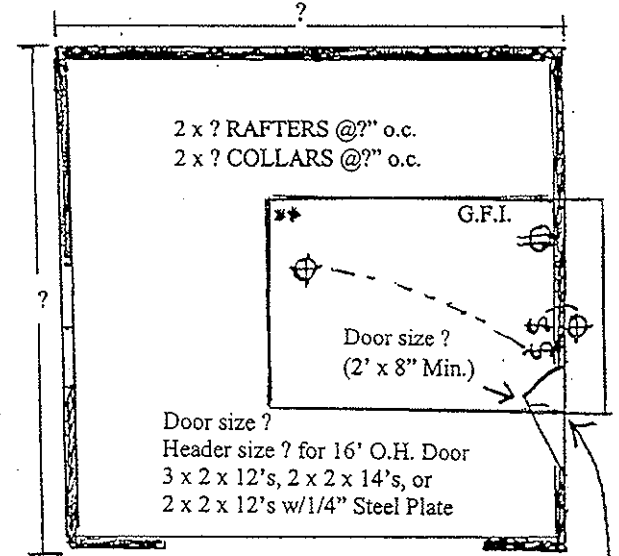
TYPICAL SHED

TO BE USED AS SAMPLE ONLY!

***Only required if over 150 sq. ft.



CROSS SECTION



FLOOR PLAN

Show any electrical - if outlets are installed, they must be on a GFI circuit (electric shown is MINIMUM required)

***Only show if having a side door and/or electric

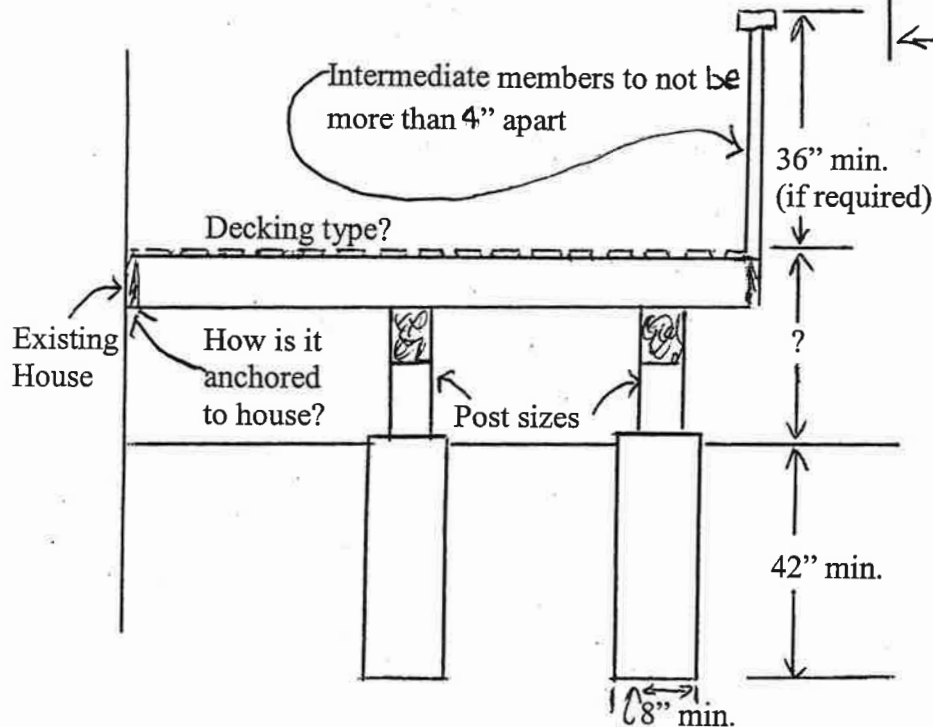
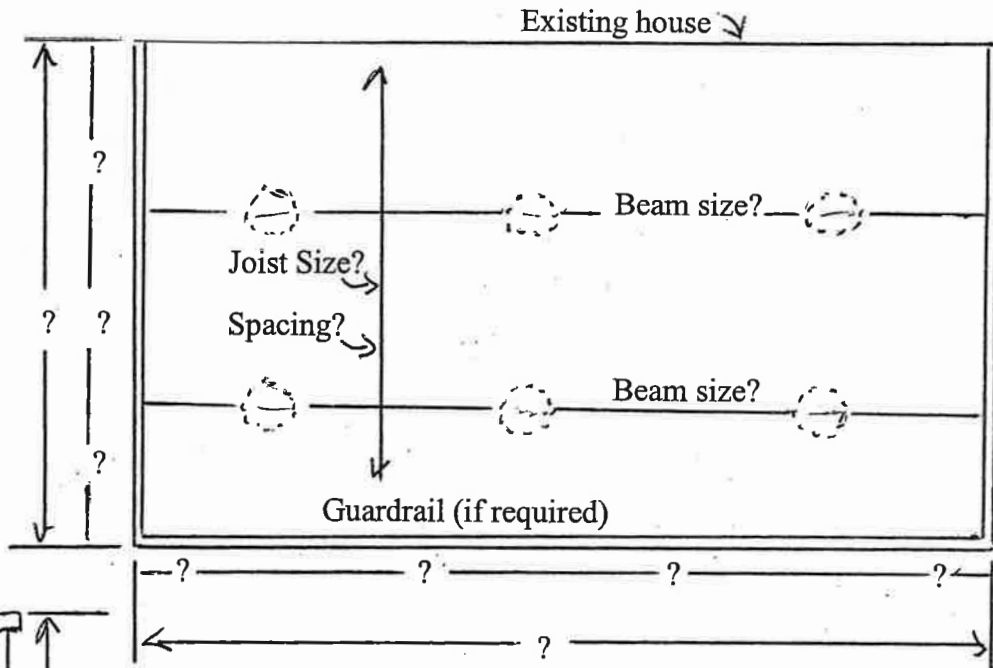
**Maximum height depends on lot size

TYPICAL DECK REQUIREMENTS

SAMPLE ONLY

SIDE

1. What is the deck height above ground? (36" minimum guardrail with balusters maximum 6" o.c. required everywhere deck floor exceeds 24" above grade and on all open sides of stairs over two stairs, w/ separate handrail on one side.)
2. How is the deck anchored to the house?
3. Pier size? (8" diameter x 42" deep minimum)
4. Flooring? What type?
5. Post size(s) if any? (4 x 4, 4 x 6, etc.)
6. How are posts or beams anchored to piers?
7. Show location(s) of stairs and provide stair detail.



TOP

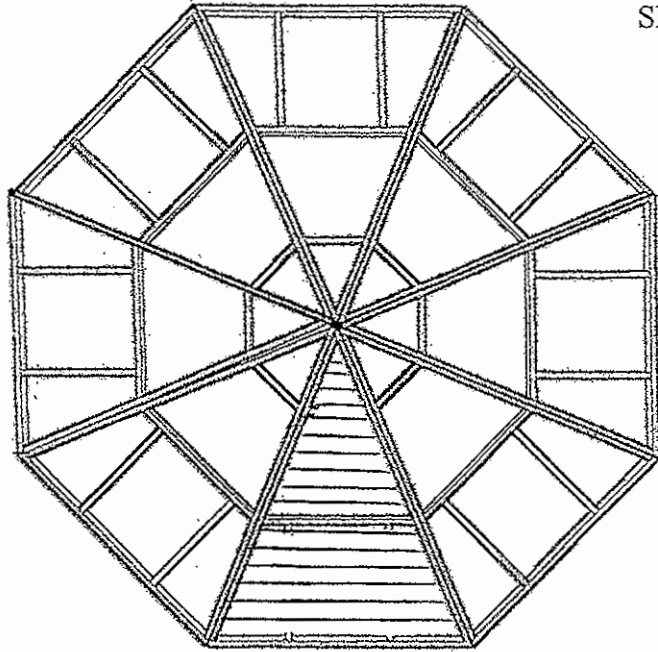
1. Fully dimensioned?
 - A. Over-all dimensions.
 - B. Dimensions of any off sets or irregular shapes.
 - C. Dimensions of pier & beam locations. (see above drawing).
2. Show joist size(s), direction(s) & spacing.
3. Show beam size(s). (2-2x6's, 3-2x10's, etc.)

TYPICAL GAZEBO REQUIREMENTS

{--dimension--}

TOP VIEW

Fully dimensioned
 Show joist size & spacing/direction
 Show beam direction & size



Joist size & spacing

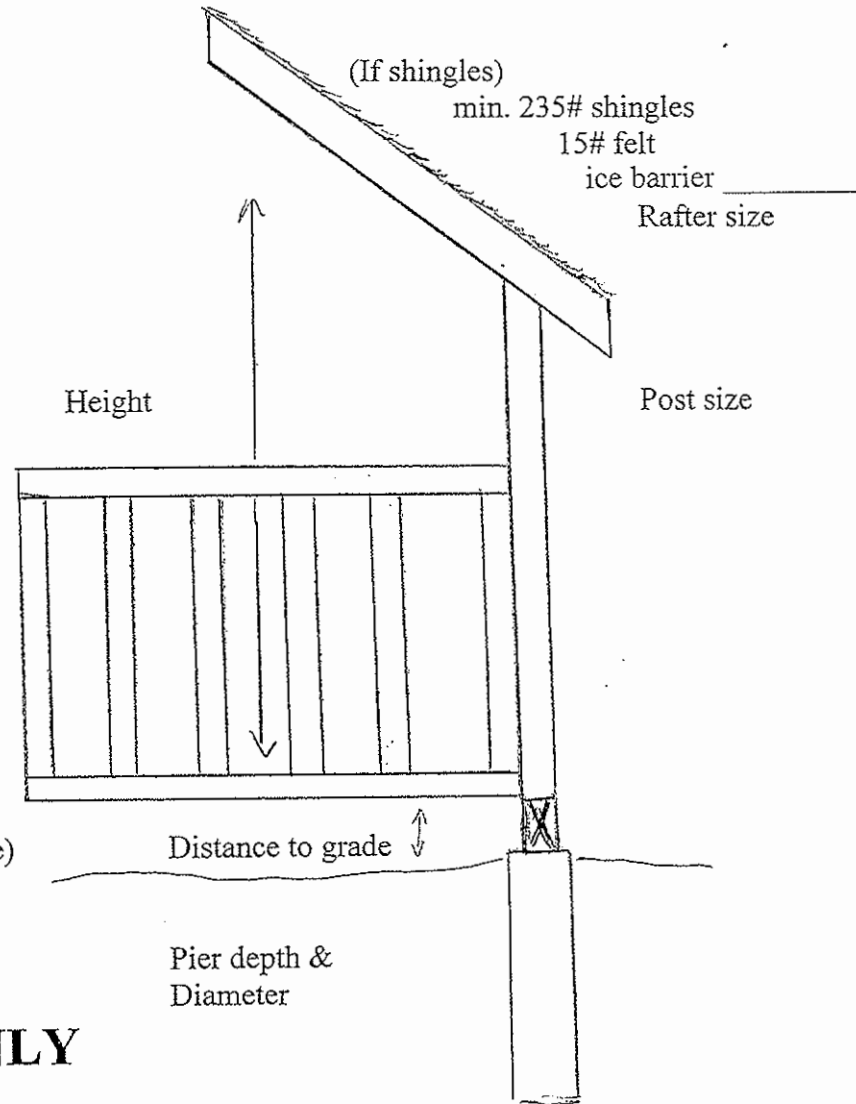
Flooring type

Baluster spacing

Railing Height

SIDE VIEW

What are the post sizes?
 How are the posts/beams anchored to the piers or deck?
 Show location of stairs and provide a stair detail (if applicable)



Height

(If shingles)

min. 235# shingles

15# felt

ice barrier

Rafter size

Post size

Distance to grade

Pier depth & Diameter

SAMPLE ONLY