GROSS FLOOR AREA:	720 SQ. FT.
GRADE TO RIDGE HEIGHT:	13' - 2"

Building Materials List for Plan #720-1

- Local building code *approved* substitutions may be made to this list -

Variations in construction *methods* and materials can require modification of *this* list. *Every* attempt is made for greatest accuracy, but typographical or human error is possible. Quantities verification by the materials supplier is recommended before materials package is *finalized and/or* shipped.

Concrete & Reinforcements For Monolithic Slab/Footing

Poured-in-place concrete		*(min) 14 cy*
#4 Reinforcing Steel Bar ASTM A-615 grade 40	*20' lengths*	*19 pcs.*
W/6 x 6 - w1.4 x 1.4 wire mesh	*382 sf*	*127 lf, 4' roll*

Concrete & Reinforcements For Stemwall/Footing Foundation

Poured-in-place concrete		*(min) 14 cy*
#4 Reinforcing Steel Bar ASTM A-615 grade 40	*20' lengths*	*32 pcs.*
W/6 x 6 - w1.4 x 1.4 wire mesh	*641 sf*	*160 lf, 4' roll*

Rough Framing

2 x 4 x 92-1/2" HF/DF "stud" wall framing		88 *pcs*
2 x 4 HF/DF No. 2 for plates and lookouts		264 LF
2 x 4 HF/DF No. 2 pressure-treated mudsill		108 LF
4 x 10 DF No. 1 header	*18' length*	1 *pcs.*
2 x 6 DF No. 1 Header	*10' length*	3 *pcs*
2 x 4 x 22-1/2" with screened vent holes		30 *pcs.*
Trusses: 4 : 12 pitch 24'-0" span, incl. (2) end trusses		16 *pcs.*

Sheathing Materials

15/32" 5-ply C-D APA Plywood ext. glue P.I 24/0 Roof	*4 x 8 sheet*	28 *sheets*
(for optional siding boards) 7/16" o.s.b. wall sheathing	*4 x 8 sheet*	31 sheets

Vapor Barrier

Roof 15# bituminous felt paper in 36" wide roll	*400 lf*
Wall 7# bituminous felt paper in 40" wide roll	350 lf
Floor .006" black polyethylene membrane	720 *sf*

Siding Materials

7/16" o.s.b. textured (or 5/8" T1-11 plywood) panel siding 4 x 8 sheet		31 sheets
(optional) 8" textured o.s.b. siding boards with 1" lap	828 SF SIDING AREA	
Cedar Trim: 1 x 4	*8' length*	*13 pcs.*
Cedar Trim: 1 x 4	*10' length*	*2 pcs.*
Cedar Trim: 1 x 3	*8' length*	*4 pcs.*
Cedar Fascia: 1 x 6	*8' length*	*8 pcs.*
Cedar Rakeboard: 2 x 6	*16' length*	*4 pcs.*

Roofing Materials

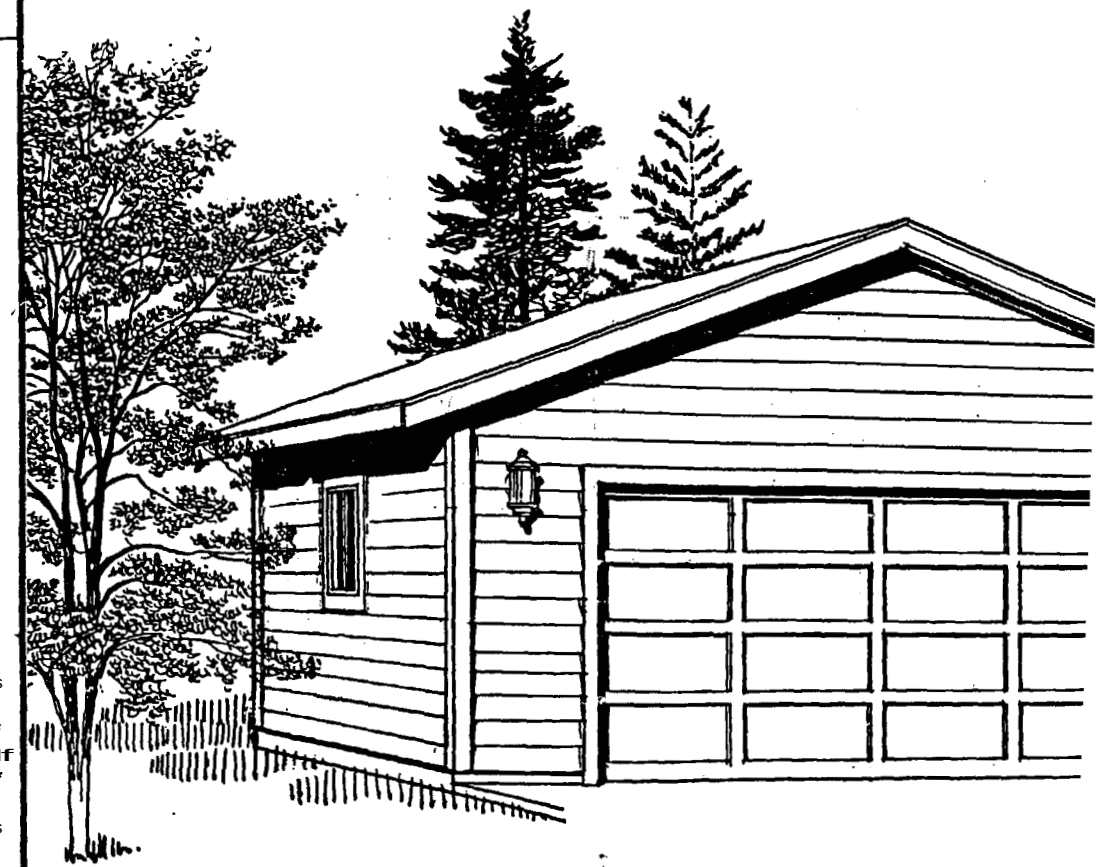
Composition Roofing Shingles	*899 sf*	
Ridgevent material		*32 lf*

Windows and Doors

4030 sliding window assemblies	*2 ea.*
3068 exterior door assembly	*1 ea.*
16' - 0" x 7'-0" sectional garage door assembly	*1 ea.*

Metal Parts

Anchor bolts: 1/2" dia. x 10 "ASTM A-307/A-325, type X w/ hex nuts	29 *pcs*
Flat washer: 2" x 2" square x 3/16" thick	29 *pcs*
Simpson H1 clips (or equal)	28 *pcs*
Simpson STHD10 hold-down straps (or equal)	*4 pcs*
16d sinker nails @ 50 lbs. / box	50 *lbs*
8d common nails @ 145 nails / lb.	20 *lbs*
Roofing nails @ 210 nails / lb.	*10 lbs*
Z-flashing strip for panel siding (applied)	48 *lf*
Drip flashing for window/door heads (applied)	27



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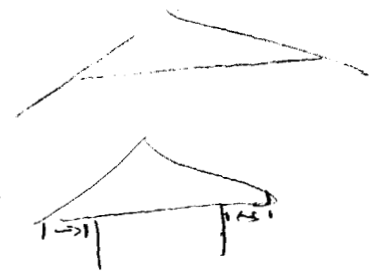
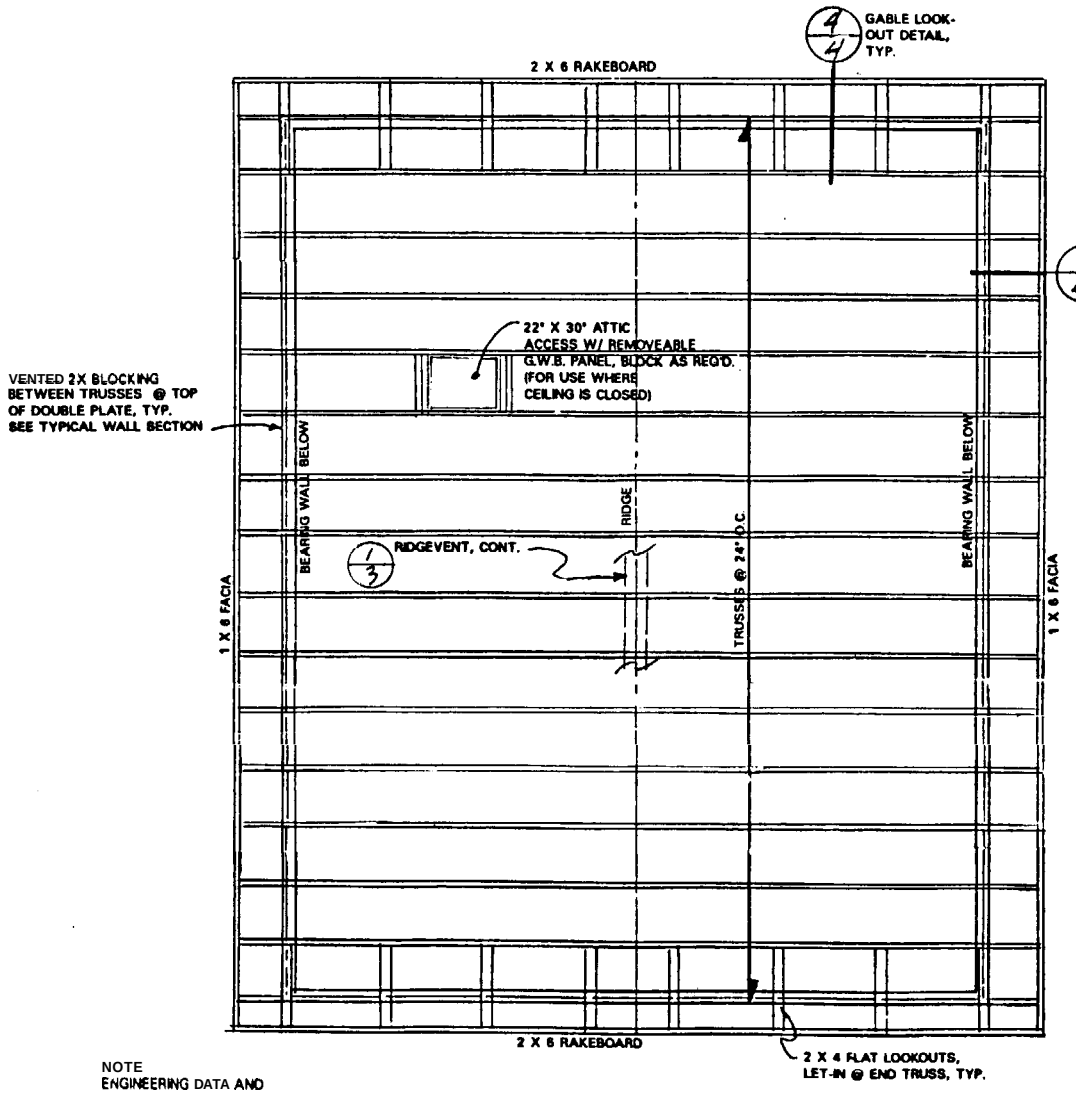




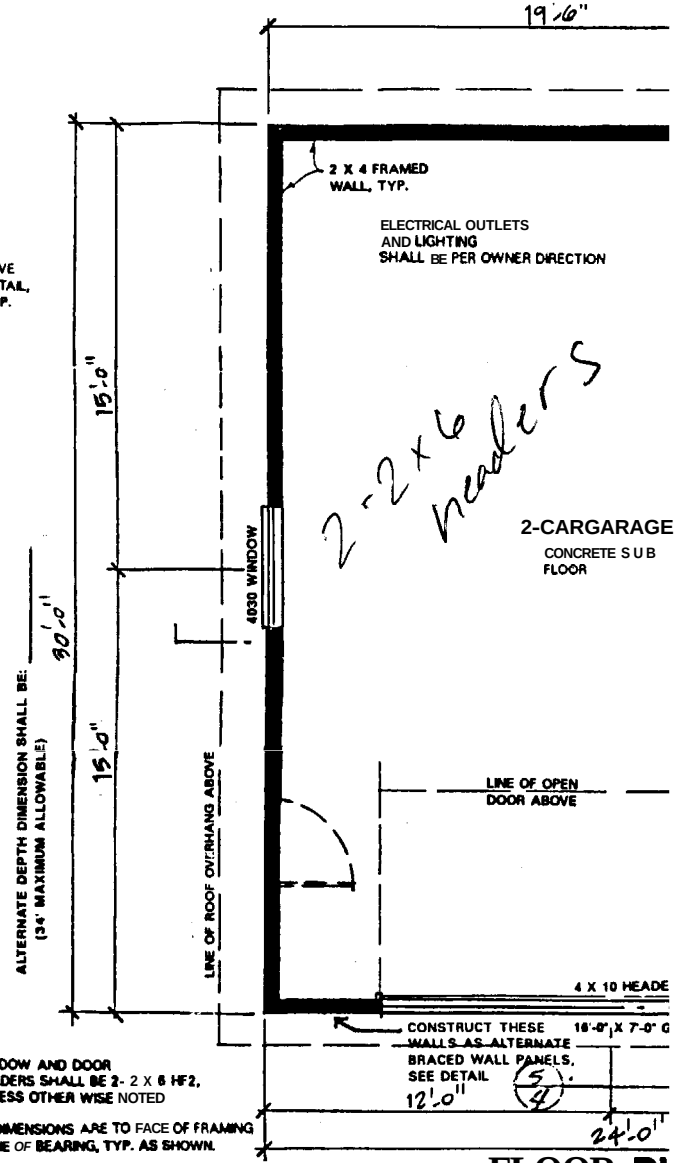
NOTE
ENGINEERING DATA AND SPECIFICATIONS WALL BE PROVIDED BY TRUSS MANUFACTURER AS REQUIRED BY BUILDING OFFICIAL AND SHALL BE STATE APPROVED.

ROOF FRAMING PLAN

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

NOTE:
ARROW LINE INDICATIONS ILLUSTRATE EXTENT OF SPANNING MEMBERS, NOT DIRECTION OF SPAN

FOR ROOF SLOPES, SEE EXTERIOR ELEVATIONS



WINDOW AND DOOR HEADERS SHALL BE 2- 2 X 6 HF2, UNLESS OTHER WISE NOTED

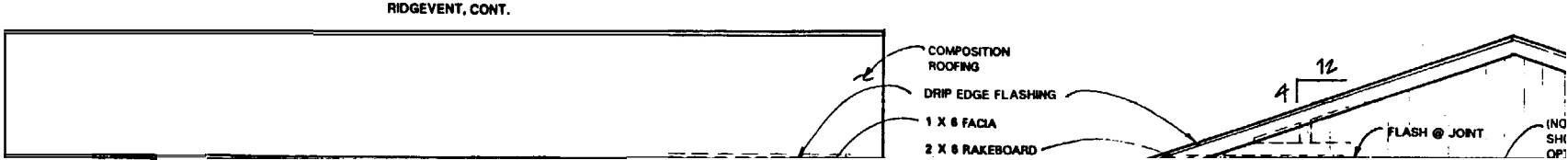
NOTE:
FLOOR PLAN DIMENSIONS ARE TO FACE OF FRAMING OR CENTERLINE OF BEARING, TYP. AS SHOWN.

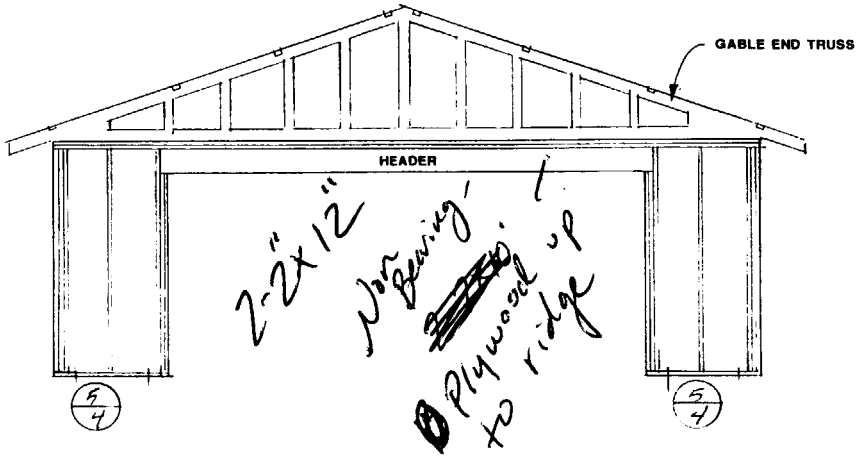
FLOOR PL

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

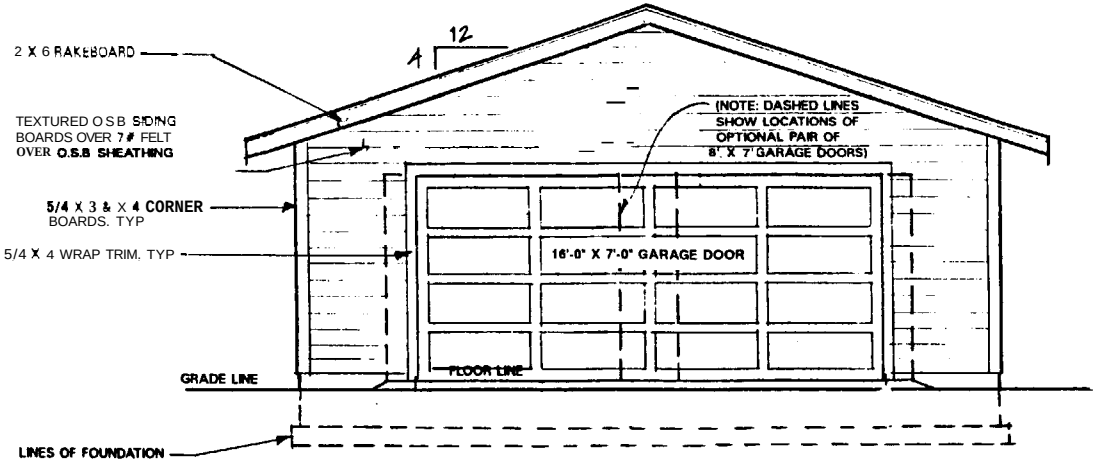
BRACED WALLS AS PER
UBC 2320.11.3 & .11.4 &
IBC 2308.9.3 & .9.3.1 &
IRC R60210.3 - .10.8 &
CABO 6029 AS APPLICABLE

NAIL SIDING PANELS OR SHEATHING W/ 8d @ 6" O.C., EDGES AND @ 12' O.C., FIELD, AND USE ALTERNATE BRACED WALL PANELS (ABWP) WHERE SHOWN





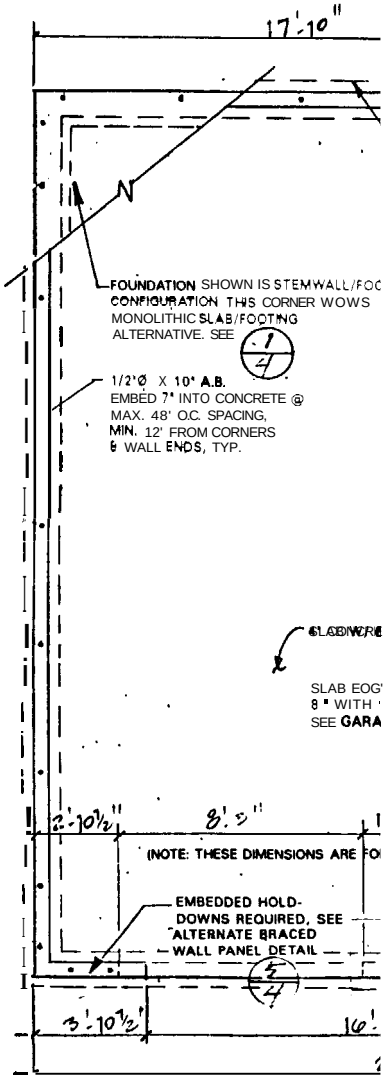
FRONT WALL FRAMING ELEVATION



FRONT ELEVATION

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

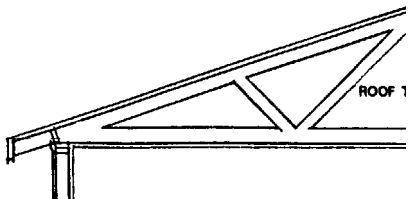
NOTE:
NOTES AND MATERIAL INDICATIONS SHOWN ARE TYPICAL FOR ENTIRE BUILDING EXTERIOR, APPLICABLE.



NOTE:
FOUNDATION PLAN DIMENSIONS ARE TO FACE OF CONCRETE OR CENTERLINE OF BEARING, AS SHOWN.

FOUNDAT

SCALE 1/4" = 1'-



CORRUGATED PLASTIC RIDGE CAP OF SAME

Structural/General Notes /Specifications

A. General
The following notes shall clarify and supplement the working drawings.

CURRENT EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC),
INTERNATIONAL RESIDENTIAL CODE (IRC)
UNIFORM BUILDING CODE (UBC) AND CABO

C. Live Loads

Roof	25 lbs/sf
Floors	40 lbs/sf
Stairs & Exist	IM lbs/sf

Earth Pressure .....30lbs/cf equiv. Fluid pressure

D. Soil & Foundation Data
1. Soil bearing data not available. Assumed soil bearing capacity = 2000 lbs/sf.
2. Extend all footings down to undisturbed soil of the specified strength with a *minimum* depth of 1'-6" below adjacent grade, or as required by local building official, based on local frost line depth.
3. Center all footings on columns and walls unless specifically dimensioned otherwise.
4. Compacted fill to be well graded and granular with not more than 5% passing a 200 sieve. Place in 8-inch loose lifts and compact to 95% modified AASHO density at optimum moisture.

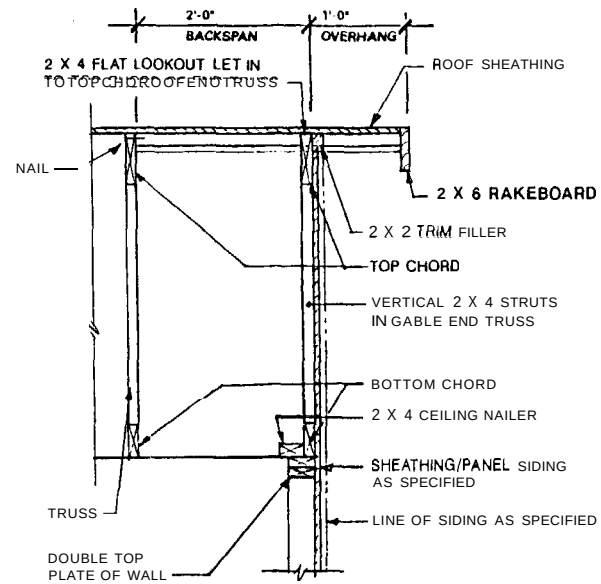
E. Cast-in-Place Concrete and Reinforcing Steel
1. Concrete of the following 28-day strength: 5 sack cement/cy (min 3000 psi); max. 6 gal water/sack for all structural concrete, including foundations and slabs on grade. Maximum sized aggregate ¾". Maximum slump 4". Add Master Builders Pozzolith per manufacturer's recommendations to all concrete except footings. Concrete for exterior walks to be air entrained (5% air).
2. Reinforcing steel ASTM A-615 grade 40/60. Use grade 40 for temperature steel, stirrups and dowels. Detail, fabricate and place in accordance with the latest edition of A.C.I. "Manual Of Standard Practice".
3. Concrete cover on reinforcing steel (clear dimensions):
   - Suspended slabs.....¾"
   - Beams & columns (to ties).....1 ½"
   - Non-exposed vertical faces.....1"
   - Vertical faces exposed to earth or weather..2"
   - Bottom of footings.....3
   - Slabs-on-grade (from top).....1 ½"
4. Lap all field splices 24 diameters with minimum of 12". Bend outer wall footing bars 12 inches or use corner bars at all corners and wall intersections.
5. Provide min. one continuous #4 bar at top and bottom of foundation walls w/ #4 at 12" o.c. where wall height exceed two feet. Provide min two continuous #4 bars in footings. Dowel foundation walls to footings w/ #4 x 1'-6" long @ 16" o.c. Embedded 6" into footing. (No shear keys required)
6. Reinforce around wall and slab openings, with sides of 12" or greater, with two #5 bars extending 24" beyond corners on all four sides. Provide one extra #5 diagonal bar, 4'-0" long, at each corner.
7. Slabs-on-grade: Roll sub grade and moisten before pour. Saw cut crack control joints within 24 hours of pour or install Zip-Strip, with maximum of 12'-0" for 4" non-reinforced slabs and 40'-0" for reinforced slabs. (min. reinforcing: w6 x 6 - w1.4 x 1.4, supported)
8. Vibrate all concrete. Segregation of materials to be prevented. Test cylinders not required.
9. Place no fill against foundation or basement walls until floors are in place or walls have been adequately shored to resist lateral earth pressures.

F. Masonry (as applicable)
1. Hollow masonry units: F'M=1350 (half & half c.m.u.)
   Mortar type S: 1 pc, ½ lime putty, 4 sand
   Grout: 2000 psi pea gravel concrete (7 sack)
2. Reinforcing steel: ASTM A-615, grade 40.
3. Place grout in lifts no greater than 4'-0" height.
4. Wall reinforcing:
   - 6" walls: #4 vertical @ 48" o.c. w/ #9 wire horiz. Joint reinf. @ 8" o.c.
   - 8" walls: #5 vertical @ 48" o.c. w/ 3/16" dia. wire horiz. Joint reinf. @ 8" o.c.

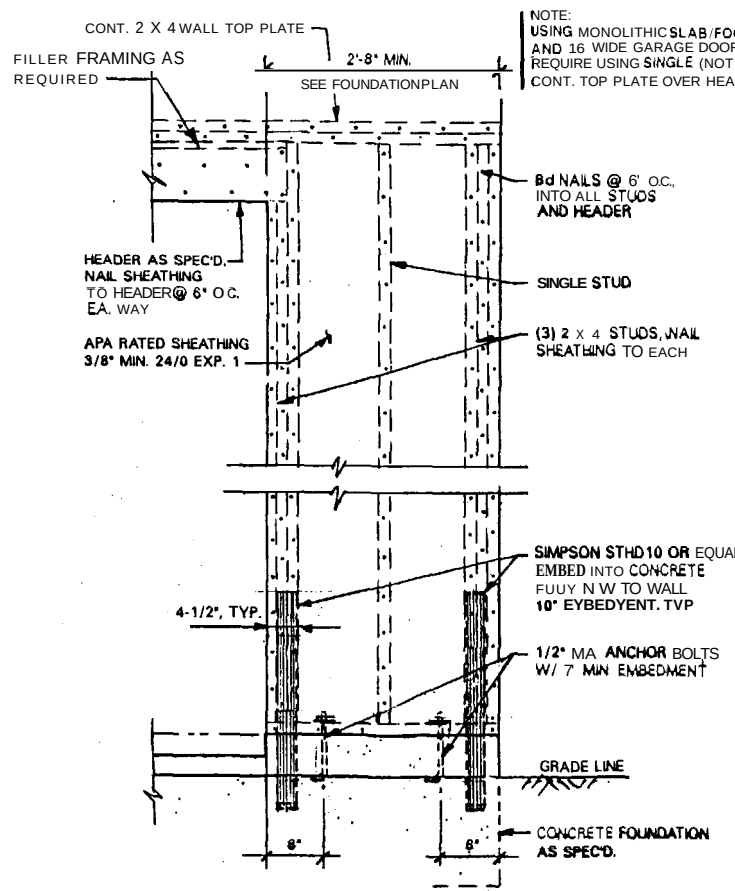
Install two bars in corners, wall intersections, wall endings and around openings. Lap all bars 20 inches and joint reinforcing, 12 inches. Use corner bars for outer bars in bond beams and at intersecting walls.
5. Anchor brick veneer to wood framed wall as detailed with 22 ga. X 7/8" x 7" galvanized corrugated wall ties @ 16" o.c. ea. Way with one Simpson a20a nail.

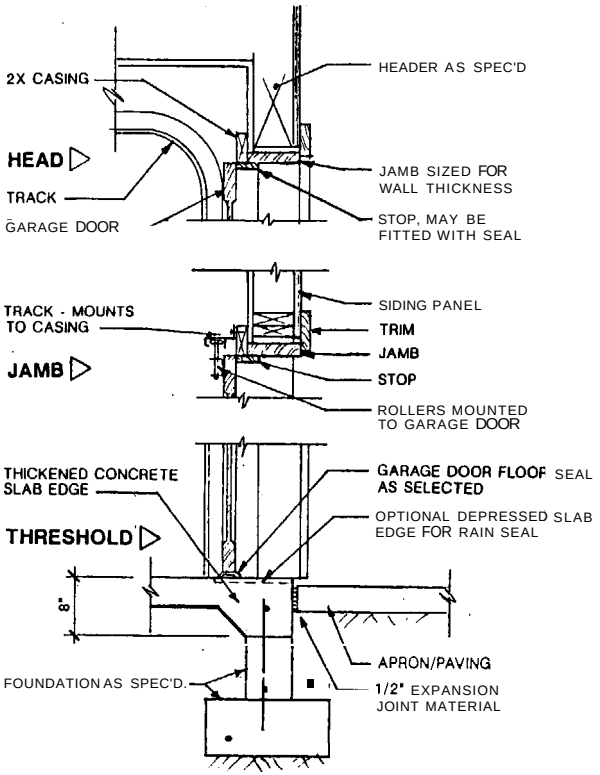
G. Timber and Wood Framing
1. Substitution of wood species identified herein may be as approved by local Building Official and material strength and capacities shall equal or exceed that of the species identified herein.
2. All lumber to be graded per book 16 of the West Coast Lumber Inspection Bureau:
   - HF/DF no. 2 for joists, rafters, light framing, plates and bracing
   - DF no. 1 for posts and beams
   - HF/DF "stud" for stud wall framing
3. Comply with the latest edition of the NFPA "National Design Specification" as modified by the IBC for all structural timber requirements.
4. Joists and rafters shall have 2" nominal thick solid blocking at supports.
5. Spike laminated members together w/ 10d nails @ 12" o.c., staggered. Spike laminations at supports only.
6. Provide cut washers for all bolts bearing on wood.\7. All nails shall be common wire nails.
8. Glue-laminated timbers, Douglas Fir, A.I.T.C. grading: combination 24F-V3 for simple spans: 24F-V8 for cantilevered spans. Dry conditions of use. Architectural appearance grade where exposed to view. Fabrication plant A.I.T.C. inspected./ Wrap individual members.
9. Plywood: Roof sheathing to be ½" C-D int-apa plywood with exterior glue, P.I. 24/0 (use 5-ply for panelized roofs) Nailing 8d @ 6" o.c. at panel edges and 8d @ 12" o.c. at intermediate supports. Sub-flooring to be ¾" C-D-apa plywood with exterior glue, P.I. 32/16. Use T&G if no underlayment. Glue and nail with 8d @ 6" o.c. at panel edges and @ 10" at intermediate supports.
10. Pre-fabricated trussed members to be designed by applicable state licensed engineer in accordance with requirements shown in the drawings. Contractor shall verify as-framed dimensions and conditions prior to truss fabrication and coordinate as required. All engineering data shall be made available for submittal to the Building Official as required.

H. Structural Steel
1. All steel, except tubing: ASTM A-36. Pipe: ASTM A-53, Type E or S, grade B. Tubular section: ASTM A500, grade B. All bolts: ASTM A-307/A-325, type X.
2. All fabrication, erection and detailing shall be in accordance with the latest edition of the "Manual Of Steel Construction" of the American Institute Of Steel Construction.
3. All welding by WABO certified welders in accordance with the "Welding Handbook" by the American Welding Society.
4. All welds 3/16" min. continuous fillet welds using AS WAS, E70XX electrodes.
5. Provide washers on all bolted connections.
6. All steel not embedded in concrete or masonry shall receive one shop coat of an approved primer paint. Apply two coats of heavy asphaltic paint to all steel exposed in earth



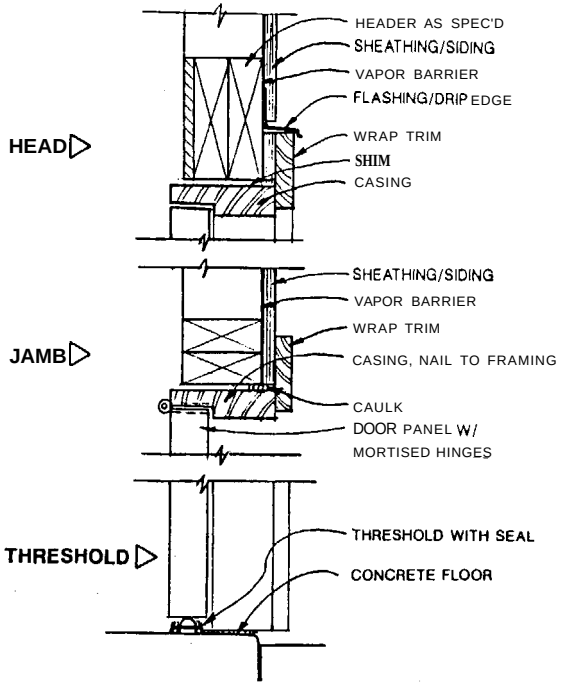
(4) GABLE LOOKOUT DETAIL
SCALE: 1" = 1'-0"





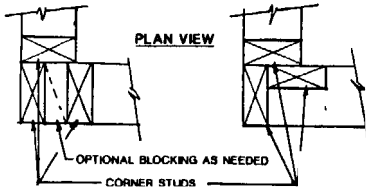
(6) GARAGE DOOR DETAIL

3/4" = 1'-0"

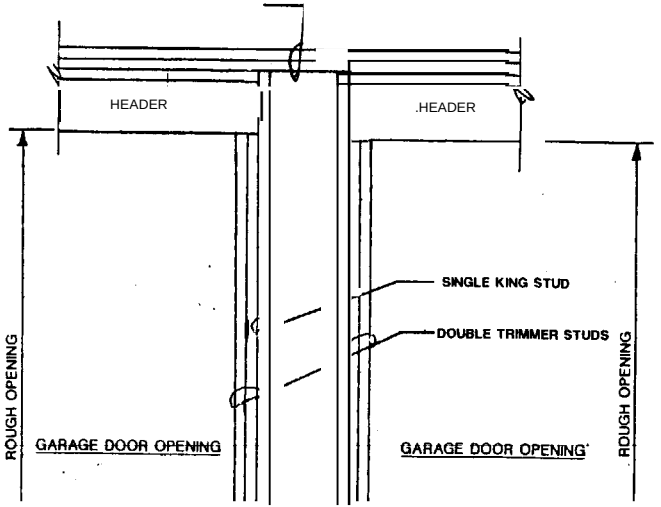


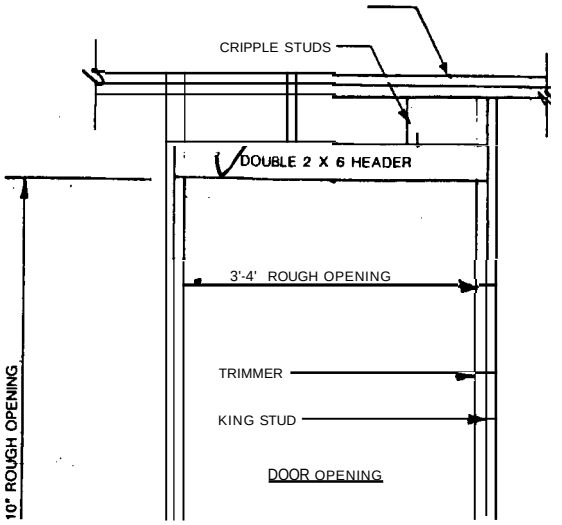
(3) DOOR DETAIL

NOTE: DOOR AND WINDOW COMPONENTS SHOWN ARE GENERIC AND ACTUAL PRODUCTS MAY VARY SLIGHTLY IN CONFIGURATION.



CORNER FRAMING OPTIONS





2303.4 Trusses. Metal-plate-connected wood trusses shall be manufactured as required by TPI 1. Each manufacturer of trusses using metal plate connectors shall retain an approved agency to make unscheduled inspections of truss manufacturing and delivery operations. The inspection shall cover all phases of truss operations, including lumber storage, handling, cutting fixtures, presses or rollers, manufacturing, bundling and banding.

2303.4.1 Truss design drawings. Truss construction documents shall be prepared by a registered design professional and shall be provided to the building official and approved prior to installation. Thew construction documents shall include, at a minimum, the information specified below. Truss shop drawings shall be provided with the shipment of trusses delivered to the job site.

1. Slop or depth, span and spacing;
2. Location of joints;
3. Required bearing widths.
4. Design loads as applicable;
5. Top chord live load (includingsnow loads);
6. Top chord dead load:
7. Bottom chord live load:
8. Bottom chord dead load.
9. Concentrated loads and their points of application;
10. Controlling wind andearthquake loads;
11. Adjustments to lumber and metal connector plate design value for conditions of use;
12. Eachreaction force and direction.
13. Metal connector plate type, size, thickness or gage, and the dimensionedlocation of each metal connector plate except where symmetrically located relative to the joint interface;
14. Lumber size, species and grade for each member:
15. Connection requirements for.
    - 15.1. Truss to truss girder;
    - 15 2 Truss ply to ply; and
    - 15 3. Field splices.
16. Calculated deflection ratio or maximum deflection for live and total load:
17. Maximum axial compression forces in the truss members to design the size, connections and anchorage of the permanent continuous lateral bracing. Forces shall be shown on h etruss construction documents or on supplemental documents; and
18. Required permanent truss member bracing location.

TABLE 2304.7(3)
ALLOWABLE SPANS AND LOADS FOR WOOD STRUCTURAL PANEL SHEATHING AND SINGLE-FLOOR GRADES CONTINUOUS OVER TWO OR MORE SPANS WITH STRENGTH AXIS PERPENDICULAR TO SUPPORTS[a,b]

SHEATHING GRADES		ROOF[c]				FLOOR[d]
		Maximum span (inches)		Load[e] (psf)		
Panel span rating roof/floor span	Panel thickness (inches)	With edge support[f]	Without edge support	Total load	Live load	Maximum span (inches)
12/0	5/16	12	12	40	30	0
16/0	5/16, 3/8	16	16	40	30	0
20/0	5/16, 3/8	20	20	40	30	0
24/0	3/8, 7/16, 1/2	24	20[g]	40	30	0
24/16	7/16, 1/2	24	24	50	40	16
32/16	15/32, 1/2, 3/8	32	28	40	30	16[h]
40/20	19/32, 5/8, 3/4, 7/8	40	32	40	30	20[h,i]
48/24	23/32, 3/4, 7/8	48	36	45	35	24
54/32	7/8, 1	54	40	45	35	32
60/32	7/8, 1 1/8	60	48	45	35	32
SINGLE FLOOR GRADES		**ROOF[c]**				**FLOOR[d]**
		Maximum span (inches)		Load[e] (psf)		
Panel span rating	Panel thickness (inches)	With edge support[f]	Without edge support	Total load	Live load	Maximum span (inches)
16 o.c.	1/2, 19/32, 5/8	24	24	50	40	16[h]
20 o.c.	19/32, 5/8, 3/4	32	32	40	30	20[h,i]
24 o.c.	23/32, 3/4	48	36	35	25	24
32 o.c.	7/8, 1	48	40	50	40	32
48 o.c.	1 3/32, 1 1/8	60	48	50	40	48

For SI: 1 inch = 25.4 mm, 1 pound per square foot = 0.0479 kN/m².
a. Applies to panels 24 inches or wider.
b. Floor and roof sheathing conforming with this table shall be deemed to meet the design criteria of Section 2304.7.
c. Uniform load deflection limitations 1/180 of span under live load plus dead load, 1/360 under live load only.
d. Panel edges shall have approved tongue-and-groove joints or shall be supported with blocking unless 1/4-inch minimum thickness underlayment or 1 1/2 inches of approved cellular or lightweight concrete is placed over the subfloor, or finish floor is 3/4-inch wood strip. Allowable uniform load based on deflection of 1/360 of span is 100 pounds per square foot except the span rating of 48 inches on center is based on a total load of 65 pounds per square foot.
e. Allowable load at maximum span.
f. Tongue-and-groove edges, panel edge clips (one midway between each support, except two equally spaced between supports 48 inches on center), lumber blocking or other. Only lumber blocking shall satisfy blocked diaphragm requirements.
g. For 7/16-inch panel, maximum span shall be 24 inches.
h. Span is permitted to be 24 inches on center where 3/4-inch wood strip flooring is installed at right angles to joist.
i. Span is permitted to be 24 inches on center for floors where 1 1/2 inches of cellular or lightweight concrete is applied over the panels.

TABLE 2304.7(4)
ALLOWABLE SPAN FOR WOOD STRUCTURAL PANEL COMBINATION SUBFLOOR-UNDERLAYMENT (SINGLE FLOOR)[a,b]
(Panels Continuous Over Two or More Spans and Strength Axis Perpendicular to Supports)

IDENTIFICATION	MAXIMUM SPACING OF JOISTS (Inches)				
Species group[c]	Thickness (inches)				
	16	20	24	32	48
1	1/2	5/8	3/4	—	—
2, 3	5/8	3/4	7/8	—	—
4	3/4	7/8	1	—	—
Single floor span rating[d]	16 o.c.	20 o.c.	24 o.c.	32 o.c.	48 o.c.

For SI: 1 inch = 25.4 mm, 1 pound per square foot = 0.0479 kN/m².
a. Spans limited to value shown because of possible effects of concentrated loads. Allowable uniform loads based on deflection of 1/360 of span is 100 pounds per square foot except allowable total uniform load for 1 1/4-inch wood structural panels over joists spaced 48 inches on center is 65 pounds per square foot. Panel edges shall have approved tongue-and-groove joints or shall be supported with blocking, unless 1/4-inch minimum thickness underlayment or 1 1/2 inches of approved cellular or lightweight concrete is placed over the subfloor, or finish floor is 3/4 inch wood strip.
b. Floor panels conforming with this table shall be deemed to meet the design criteria of Section 2304.7.
c. Applicable to all grades of sanded exterior-type plywood. See DOC PS 1 for plywood species groups.
d. Applicable to Underlayment grade, C-C (Plugged) plywood, and Single Floor grade wood structural panels.

TABLE 2304.7(5)
ALLOWABLE LOAD(PSF) FOR WOOD STRUCTURAL PANEL ROOF SHEATHING CONTINUOUSOVER TWO OR YORE SPANS AND STRENGTH AXIS PARALLEL TO SUPPORTS
(Plywood Structural Para's Are Five-Ply, Five-Layer Unless Otherwise Noted)[a,b]

PANEL GRADE	THICKNESS (Inch)	MAXIMUM SPAN (inches)	LOAD AT MAXIMUM SPAN (psf)	
			Live	Total
Structural Isheathing	7/16	24	20	30
	15/32	24	35[c]	45[c]
	1/2	24	40[c]	50[c]
	19/32, 5/8	24	70	80
	23/32, 3/4	24	90	100
Sheathing, other grades covered in DOC PS 1 or DOC PS 2	7/16	16	40	50
	15/32	24	20	25
	1/2	24	25	30
	19/32	24	40[c]	50[c]
	5/8	24	45[c]	55[c]
	23/32, 3/4	24	60[c]	65[c]

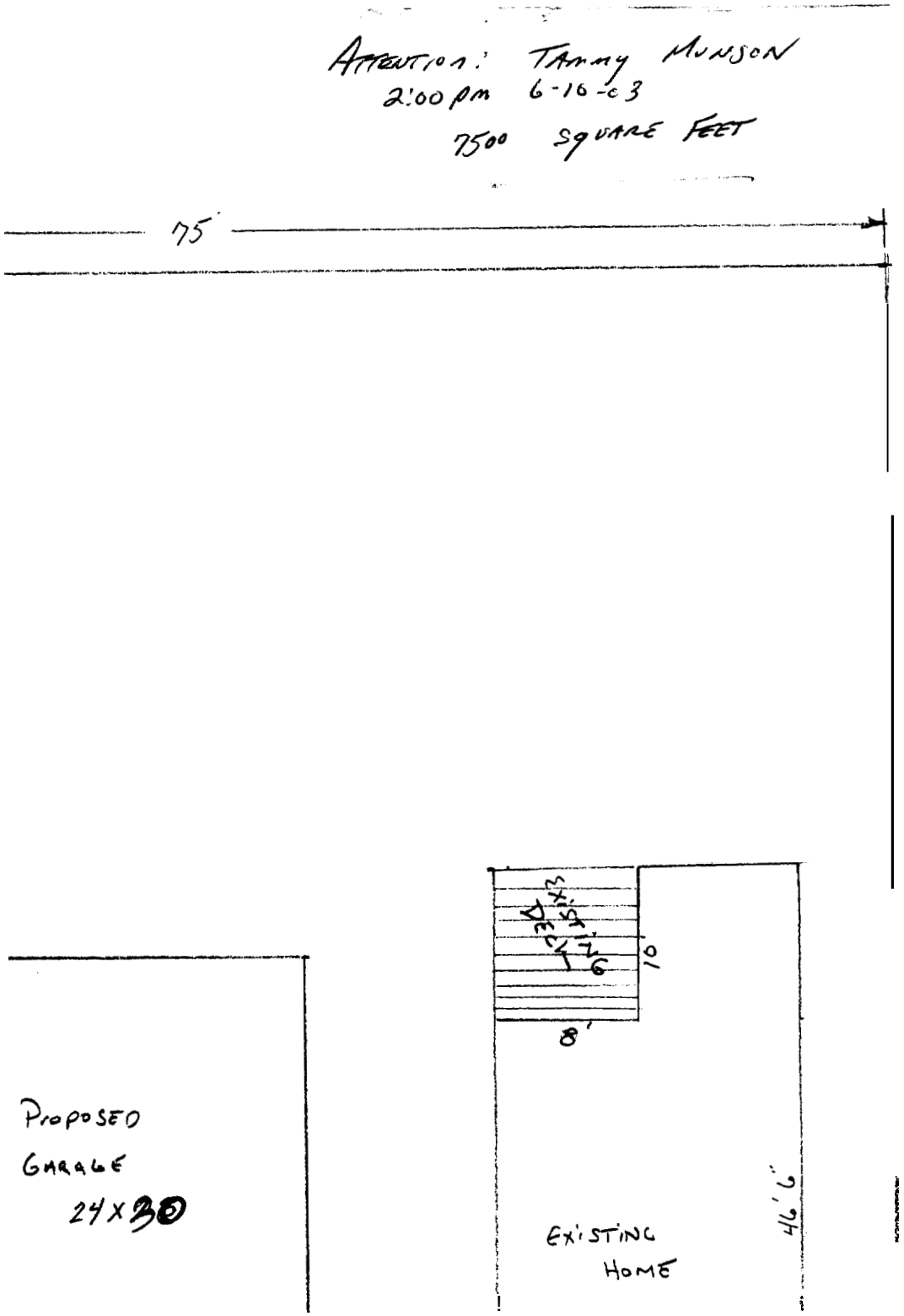
For SI: 1 inch = 25.4 mm, 1 pound per square foot = 0.0479 kN/m².
a. Roof sheathing conforming with this table shall be deemed to meet the design criteria of Section 2304.7.
b. Uniform load deflection limitations 1/180 of span under live load plus dead load, 1/360 under live load only. Edges shall be blocked with lumber or other approved type of edge supports.
c. For composite and four-ply plywood structural panel, load shall be reduced by 15 pounds per square foot.

TABLE 2304.7(1)
ALLOWABLE SPANS FOR LUMBER FLOOR AND ROOF SHEATHING[a,b]

SPAN (inches)	MINIMUM NET THICKNESS (inches) OF LUMBER PLACED			
	Perpendicular to supports		Diagonally to supports	
	Surfaced dry[c]	Surfaced unseasoned	Surfaced dry[c]	Surfaced unseasoned
Floors				
24	3/4	23/32	3/4	25/32
16	5/8	11/16	5/8	11/16
Roofs				
24	5/8	11/16	3/4	25/32

For SI: 1 inch = 25.4 mm.
a. Installation details shall conform to Sections 2304 6 1 and 2304 6 2 for floor and roof sheathing, respectively.
b. Floor or roof sheathing conforming with this table shall be deemed to meet the design criteria of Section 2304 6

ATTENTION: TAMMY MUNSON
2:00 PM 6-16-03
7500 SQUARE FEET



R-5
Sides - 8'
Front - 20'
rear -
Lot cov -
0K