

Community Development Department 14000 City Center Dr., Chino Hills, CA 91709 (909) 364-2740 Fax (909) 364-2795 www.chinohills.org

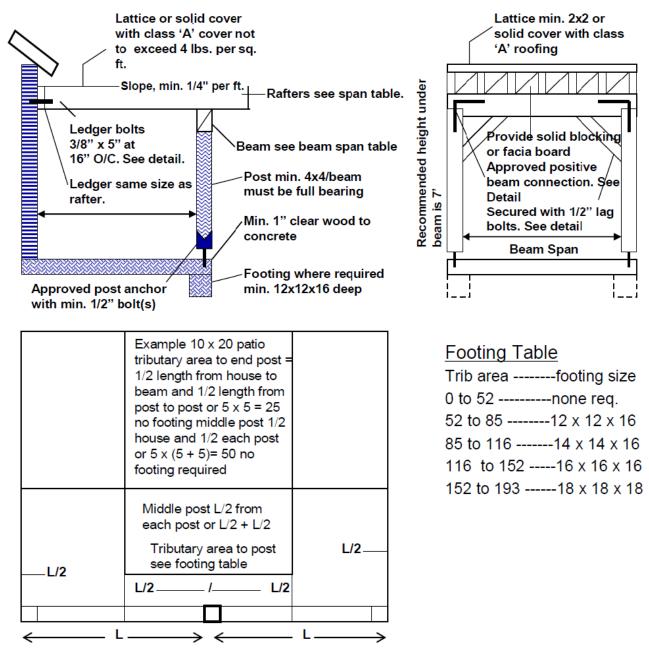
STANDARD DETAILS FOR LATTICE & SOLID PATIO COVERS

Pre-engineered details for a patio cover that is attached to a residential structure.

In order to use this pre-engineered standard <u>no deviation</u> from this handout will be allowed. For example but not limited to cantilevered second floors, structure or window pop-outs, or ledgers extended beyond the structure.

Provide a plot plan. See handout for "How to prepare a residential plot plan".

SUBMITTAL REQUIREMENTS
Completed Building Permit Application
☐ Three (3) copies of plans prepared to a standard scale
Complete sets of plans consist of the following:
☐ Name of Property owner
 Assessor parcel number, tract number, lot number
☐ All property lines with dimensions
☐ Drawn to scale
☐ All structures, provide setback dimensions to all property lines (front, sides and rear)
☐ Identify and show easements, if any
Signed Carbon Monoxide/Smoke Detector Form (must be signed by the HOMEOWNER, not the
contractor)
☐ Calculate the tributary area of the patio cover in order to circle the proper footing size on the following
pages
☐ Circle items and fill in the distances on the following pages



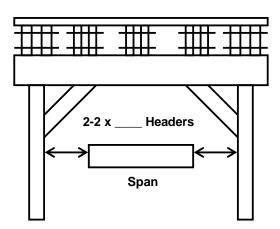
Notes:

- Post anchors have to be embedded into footing concrete with post support 1 inch above patio slab.
- 2. Ledger board shall be attached to the house with minimum 3/8" x 5" lag bolts staggered -- spaced 16" on center.
- 3. Patio rafters shall be attached to ledger board with approved joist hangers. Block joists at each end.
- 4. No attachment shall be made to masonry/brick fireplaces chase or to truss system.
- 5. Post/beam connection shall be made by mechanical means. All holes filled through bolted and/or nailed as applicable.
- 6. All work shall conform to the 2010 California Residential Code.

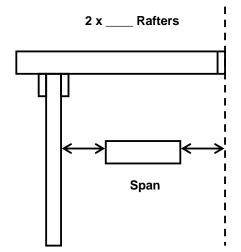
Although not required, recommended welded wire fabric be placed in patio slabs in expansive soils area.

LATTICE ONLY

Ghost Post Same Size as Full Posts Min. 2 x 2 Lattice



Max. Allowed Tributary Area to any Post is 126 sq. ft.



All Connections Require Min. 2-1/2" Diameter Bolts. Provide 3/8" x 5" Lag Bolts at 16" O/C at Ledger.

Double 2x Header/Beam

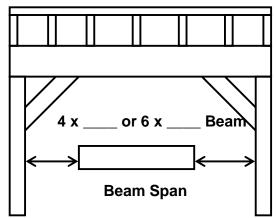
Beam Span Rafter Span 10 12 14 16 6 2 x 6 2 x 6 2 x 6 2 x 6 2 x 6 2 x 6 8 2 x 6 2 x 6 2 x 6 2 x 6 2 x 8 2 x 8 10 2 x 6 2 x 8 2 x 8 2 x 8 2 x 8 2 x 8 12 2 x 8 2 x 8 2 x 8 2 x 10 2 x 10 2 x 10 14 2 x8 2 x 10 2 x 10 2 x 10 2 x 10 2 x 10

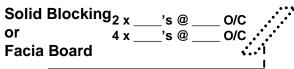
Double Rafter Max. Span

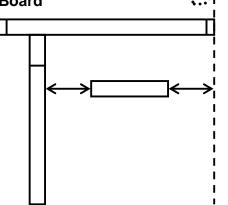
	24" O/C	32" O/	C 48" O/C
2 x 4	9' 2"		
2 x 6	14' 3"	12' 9"	10' 5"
2 x 8	18' 2"	16' 5"	13' 10"
2 x 10	23' 9"	20' 9"	17' 5"
4 x 4	13' 8"	9' 6"	7' 9"
4 x 6	17' 6"	15' 2"	12' 5"

POST AND BEAM

Lattice or Solid Cover (Circle One)







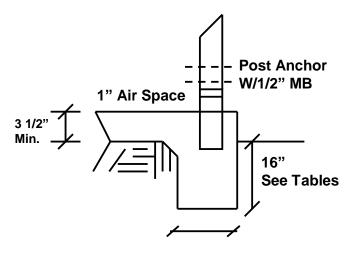
BEAM SPAN TABLE

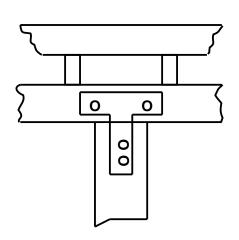
4 X Beams #2 DF 6 x Beams #1 DF

BEAM S	PAN			RAFTE	ER SPAN			
	10'	12'	14'	16'	18'	20'	22'	24'
4'	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4
6'	4 X 4	4 X 4	4 X 4	4 X 6	4 X 6	4 X 6	4 X 6	4 X 6
8'	4 X 6	4 X 6	4 X 6	4 X 6	4 X 6	4 X 8	4 X 8	4 X 8
10'	4 X 6	4 X 6	4 X 8	4 X 8	4 X 8	4 X 8	4 X 10	4 X 10
12'	4 X 8	4 X 8	4 X 8	4 X 8	4 X 8	4 X 10	4 X 10	4 X 10
14'	4 X 8	4 X 10	4 X 10	4 X 10	4 X 12	4 X 12	4 X 12	4 X 12
16'	4 X 10	4 X 10	4 X 10	4 X 10	4 X 12	4 X 12	4 X 14	4 X 14
18'	4 X 10	4 X 10	4 X 12	4 X 12	4 X 14	4 X 14	4 X 14	4 X 16
20'	4 X 12	4 X 12	4 X 12	4 X 14	4 X 14	4 X 16	4 X 16	4 X 16
			6 X 10	6 X 12	6 X 12	6 X 12	6 X 12	6 X 12

RAFTER SPAN				
	16"	o/c9'5"		
2 x 4	24"	o/c7'8"		
	32"			
	16"	o/c13'9"		
2 X 6	24"	o/c11'3"		
	32"	o/c9'8"		
	12"	o/c21'0"		
	16"	o/c18'3"		
	24"	o/c14'10"		
2 X 8	32"	o/c13'0"		
	36"	o/c12'2"		
	48"	o/c10'6"		
	12"	o/c26'10"		
	16"	o/c23'3"		
	24"	o/c18'11"		
2 X 10	32"	o/c16'7"		
	36"	o/c15'5"		
	48"	o/c13'5"		
	12"	o/c14'5"		
	16"	o/c12'6"		
	24"	o/c10'3"		
4 X 4	32"	o/c8'11"		
	36"	o/c8'4"		
	48"	o/c7'2"		
	12"	o/c22'8"		
	16"	o/c19'8"		
	24"	o/c16'0"		
4 X 6	32"	o/c14'0"		
	36"	o/c13'2"		
	48"	o/c11'4"		

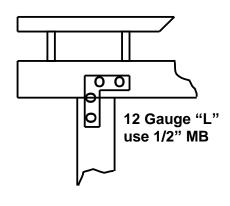
OTHER DETAILS

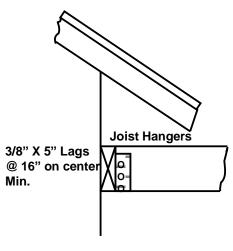




FOOTING DETAIL

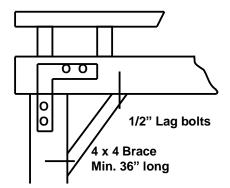
POST TO BEAM





POST TO BEAM

LEDGER DETAIL



KNEE BRACE DETAIL