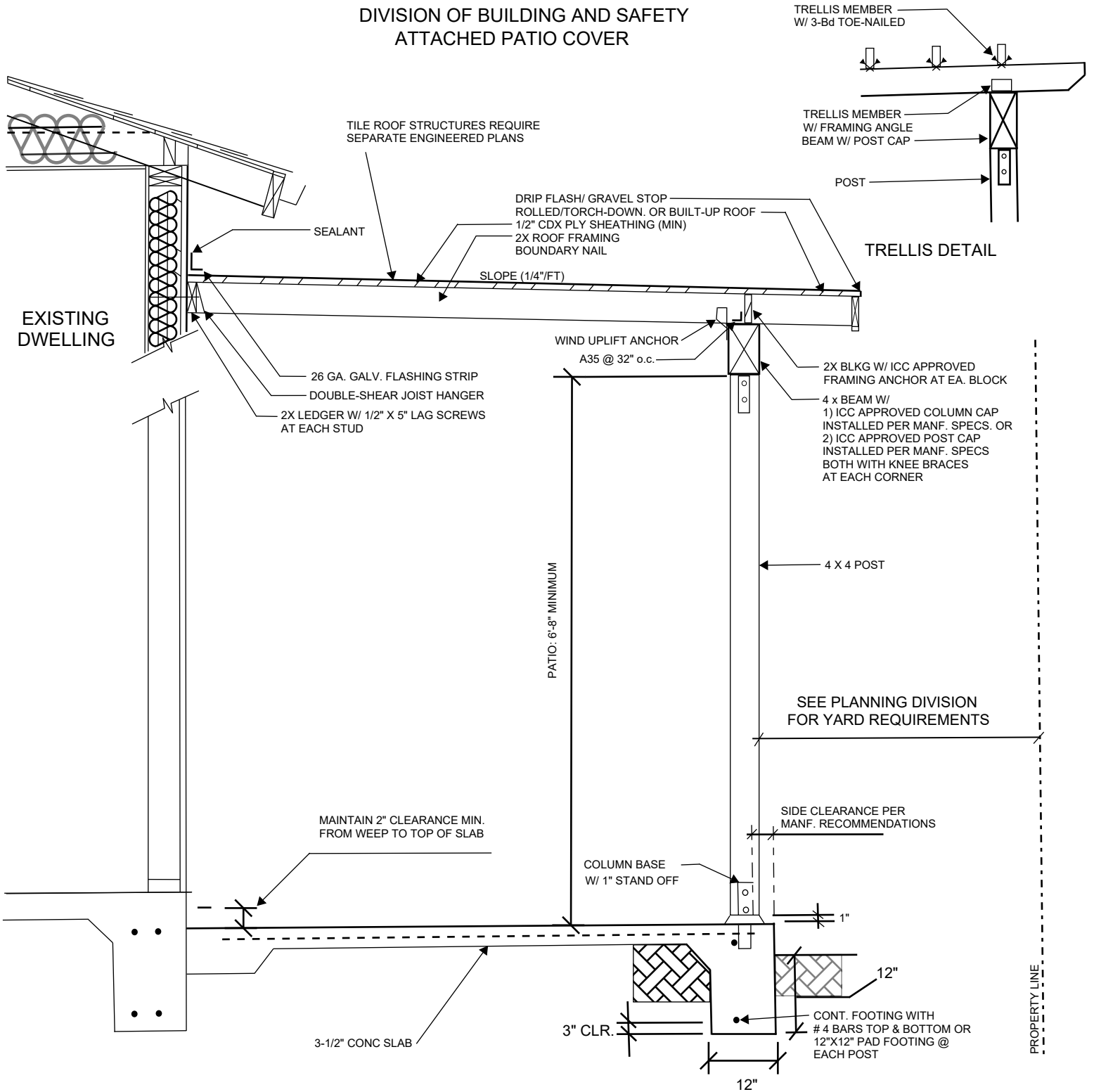




CITY OF SIMI VALLEY

DIVISION OF BUILDING AND SAFETY ATTACHED PATIO COVER



TYPE V CONSTRUCTION IS A CLASSIFICATION OF BUILDINGS BY CONSTRUCTION MATERIALS AND METHODS. IT IS THE LEAST RESTRICTIVE PERMITTED BY THE CALIFORNIA BUILDING CODE AND INCLUDES LIGHT, WOOD FRAME CONSTRUCTION. THIS SHEET IS FOR INFORMATION AND REFERENCE ONLY AND IS NOT A SUBSTITUTE FOR ACCURATE DRAWINGS PREPARED FOR EACH PROPOSED CONSTRUCTION PROJECT.

Patio Cover Standard 2023

HIGH FIRE HAZARD AREA REQUIREMENTS (CRC R337)

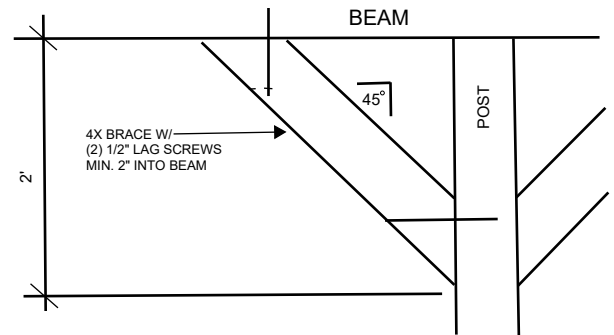
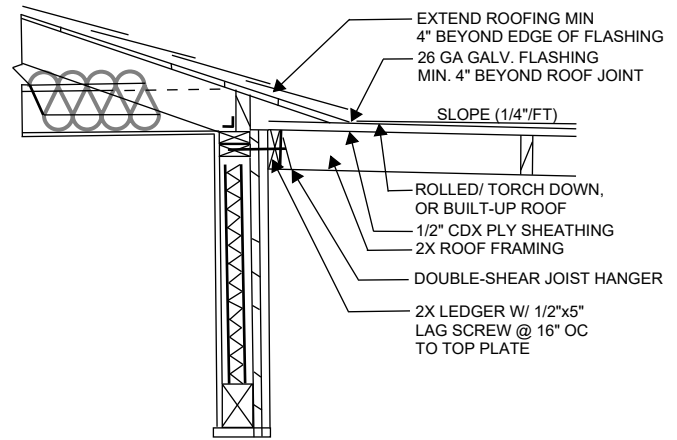
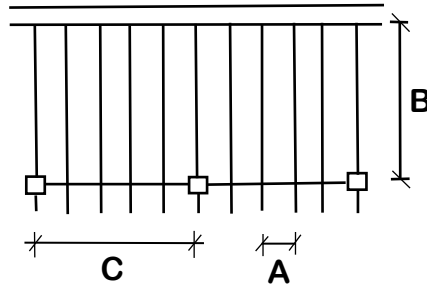
- ROOF COVERING SHALL BE OF CLASS "A"
- EXPOSED UNDERSIDE SHALL BE 2X6 MINIMUM TONGUE & GROOVE WOOD PLANKS OVER 4X6 MINIMUM ROOF RAFTERS ON 6X6 MINIMUM WOOD BEAMS AND POSTS.
- LATTICE ROOF SHALL BE 3X3 MINIMUM LATTICE MEMBERS THAT ARE SPACED APART BY A MINIMUM OF THE WIDTH OF THE LATTICE (TO PROVIDE 50% OPEN ROOF)

PATIO COVER: COVERED ROOF

Dead load 15 psf; Live load 20 psf;
Rafter to be DF #2 or better; Beams to be DF#1;

Rafter Size	Rafter Spacing	Rafter Span
	A	B
2x4	12" o.c.	7'-10"
	16" o.c.	7'-2"
	24" o.c.	6'-3"
2x6	12" o.c.	12'-6"
	16" o.c.	11'-3"
	24" o.c.	9'-11"
2x8	12" o.c.	16'-4"
	16" o.c.	15'-0"
	24" o.c.	12'-10"
2x10	12" o.c.	21'-0"
	16" o.c.	19'-1"
	24" o.c.	15'-7"
2x12	12" o.c.	25'-6"
	16" o.c.	22'-3"
	24" o.c.	18'-1"

Beam Size	Beam Span
	C
4x4	up to 4'-0"
4x6	4'-1" to 6'-0"
4x8	6'-1" to 8'-0"
4x10	8'-1" to 10'-0"
4x12	10'-1" to 16'-0"



KNEE BRACE DETAIL

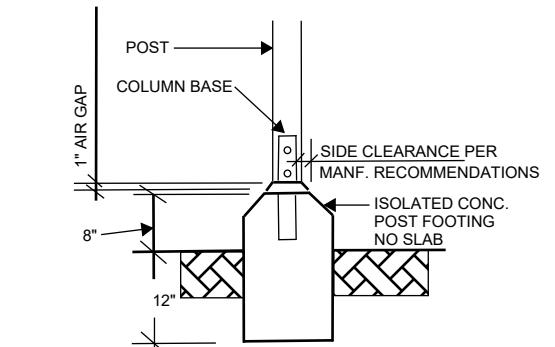
PATIO COVER: OPEN LATTICE

15 psf max.; All lumber to be DF #2 or better;

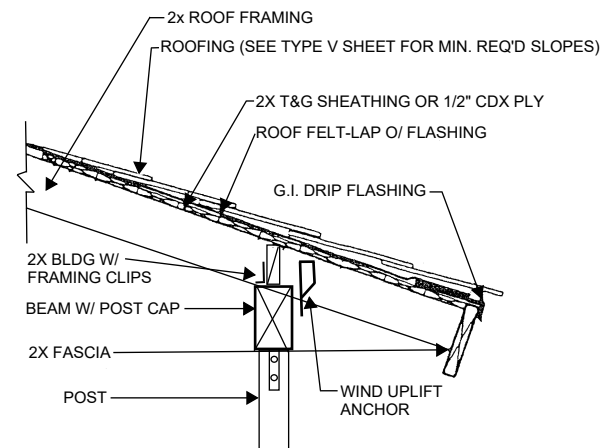
Rafter Size	Rafter Spacing	Rafter Span
	A	B
2x4	12" o.c.	14'-4"
	16" o.c.	12'-5"
	24" o.c.	10'-1"
2x6	12" o.c.	20'-11"
	16" o.c.	18'-2"
	24" o.c.	14'-9"
2x8	12" o.c.	26'-6"
	16" o.c.	23'-0"
	24" o.c.	18'-4"
2x10	12" o.c.	32'-5"
	16" o.c.	28'-1"
	24" o.c.	22'-11"
4x4	24" o.c.	22'-7"
	32" o.c.	18'-4"
	48" o.c.	14'-11"
4x6	24" o.c.	22'-7"
	32" o.c.	18'-4"
	36" o.c.	17'-3"
4x8	24" o.c.	29'-10"
	32" o.c.	24'-0"
	48" o.c.	19'-8"

Beam Size	Rafter Span	Beam Span
	B	C
4x4	10'	9'-1"
	15'	7'-5"
	20'	6'-5"
4x6	10'	13'-4"
	15'	10'-11"
	20'	9'-5"
4x8	10'	17'-7"
	15'	14'-4"
	20'	12'-5"
4x10	10'	21'-7"
	15'	17'-7"
	20'	15'-3"
4x12	10'	25'-2"
	15'	20'-6"
	20'	17'-9"
6x8	10'	20'-0"
	15'	16'-4"
	20'	14'-2"
6x10	10'	25'-4"
	15'	20'-8"
	20'	17'-11"
6x12	10'	30'-8"
	15'	25'-0"
	20'	21'-8"
	25'	19'-5"

Lattice Size	Lattice Span
2x2	4'-0"
2x3	7'-0"



ALT. FOOTING DETAIL



ALTERNATE EAVE DETAIL

ATTACHED PATIO COVER

- These are guidelines only for those items shown, other requirements of California Residential Code and California Building Code may apply.
- Lag screws must be attached into the studs or the double top plate or other solid substantial wood member. **Attachment into TJI rim joist is not acceptable.**
- Lag screws must be installed with washers and not to be recessed into the ledger.
- The predrilled lag holes must be inspected at the time of footing inspection or prior to the installation of the ledger.
- Patio covers with lattice covers may be supported on a 3 ½ " concrete slab on grade when posts support live and dead loads less than 750 pounds per column. Approved connector between post and concrete slab shall be capable of withstanding uplift wind forces.
- All roofing to be minimum class B roofing.
- The Patio cover or carport is not to block the emergency egress requirements for dwelling bedrooms.
- An occupancy separation is not required between the dwelling and the carport provided that there are no enclosed uses above, and the carport is entirely open on two more sides.

WALLS OF EXISTING DWELLING

Provide a lateral analysis by a California licensed Engineer or Architect for this wall, or provide the following bracing system which is permitted by the California Building Code: Bracing in this wall must consist of panels 4" or more in width at each end of the wall and at 25' or less on center along the length of wall per CBC 2308.6.4 if this is a 2 story dwelling the panels must be constructed of:

1. 5/8" diagonal wood boards.
2. Wood structural panel in accordance with Tables 2308.6.3 (2) and 2308.6.3 (3).
3. 1/2" structural fiberboard.
4. Exterior glue particle board per Table 2308.6.3 and 2308.6.3 (4)
5. Hardboard per Table 2308.6.3 (5).

