

SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS

B-102-1

9-8-2025

PG. 1 OF 2

SFR - COVERED PATIO LIGHT ROOFING MATERIAL

2024 IBC

Clark County
Building Department
4701 W Russell Rd
Las Vegas, NV 89118
(702) 455-3000

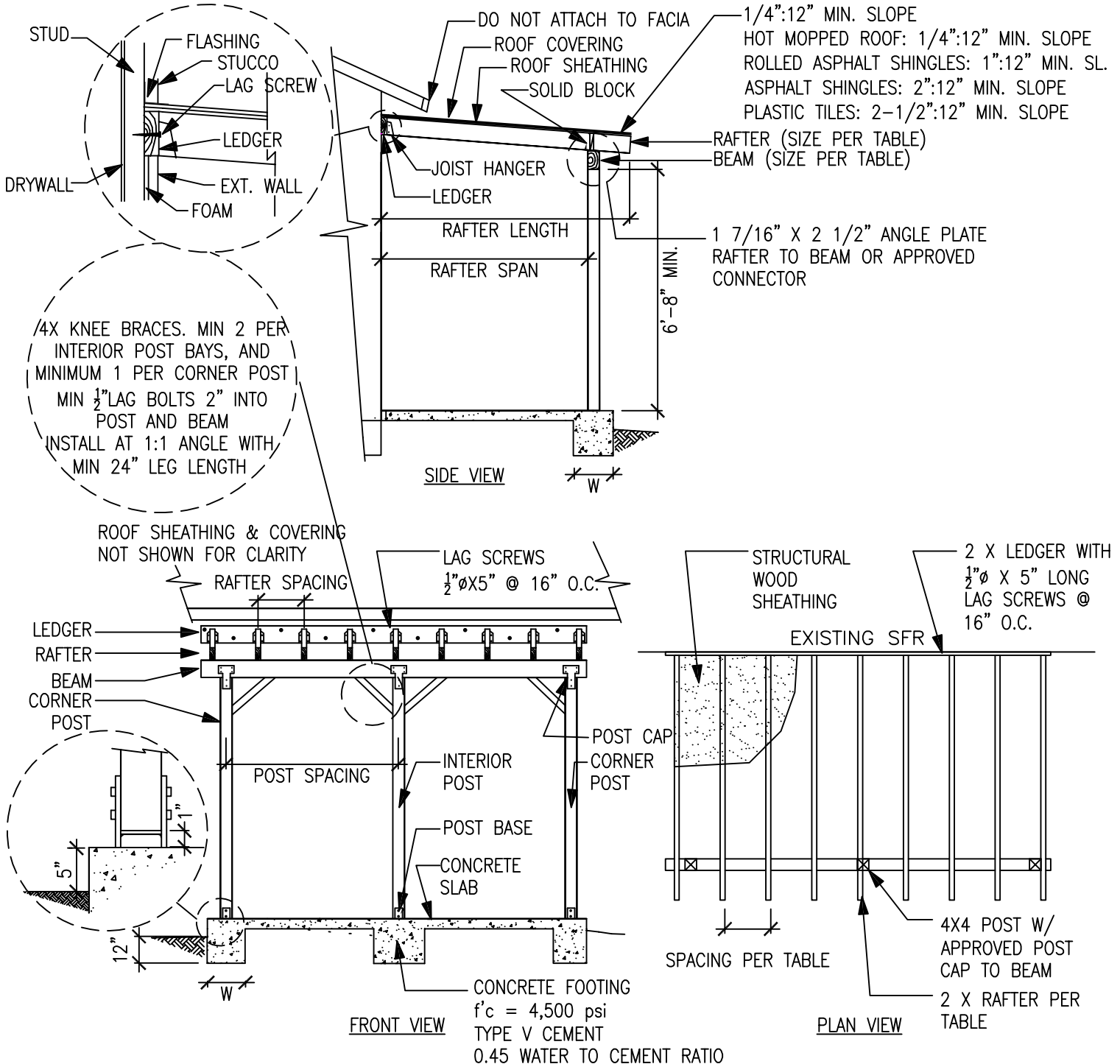
Boulder City
Building Department
401 California Avenue
Boulder City, NV 89005
(702) 293-9282

Henderson
Building & Fire Safety Department
240 S. Water Street
Henderson, NV 89015
(702) 267-3650

Las Vegas
Building & Safety
495 S. Main Street
Las Vegas, NV 89101
(702) 229-6251

****THIS HANDOUT IS NOT INTENDED FOR THE
CONSTRUCTION OF DECKS OR BALCONIES**

MORE THAN THE MINIMUM SLOPE OF 1/4:12 MAY
BE REQUIRED DUE TO THE ROOF COVERING
SELECTED



Mesquite
Building Department
10 East Mesquite Blvd.
Mesquite, NV 89027
(702) 346-2835

North Las Vegas
Building Safety
2250 Las Vegas Blvd. N
N. Las Vegas, NV 89030
(702) 633-1577

Pahrump
Nye County Building Department
2041 E. Calvada Boulevard North
Pahrump, NV 89048
(775) 751-3373

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RAFTER SPAN USING DOUGLAS FIR #2 GRADING AGENCY WHPA, WCLIB		
SIZE	SPACING	MAX SPAN
2X4	12"	10'-10"
	16"	9'-10"
	24"	8'-7"
2X6	12"	17'-0"
	16"	15'-6"
	24"	12'-10"
2X8	12"	22'-5"
	16"	19'-11"
	24"	16'-3"
2X10	12"	28'-1"
	16"	24'-4"
	24"	19'-10"

NOTE: WHEN ADDING 1/2" GYPSUM BOARD AND 1/2" STUCCO FOR CEILING/SOFFIT:

- INCREASE (1) RAFTER SIZE FOR REQUIRED SPAN/SPACING
- INCREASE (1) BEAM SIZE
- ADD 4" TO 'W' FOR SQUARE FOOTING SIZE

APPLICANT _____.

JOB ADDRESS _____.

PATIO DIMENSION _____ X _____.

RAFTER SIZE _____ X _____ SPACING _____ O.C. SPAN _____.

LEDGER SIZE _____ X _____.

POST SIZE _____ X _____ SPACING _____ O.C.

BEAM SIZE _____ X _____.

FOOTING SIZE _____ X _____.

ROOF MATERIAL _____.

ROOF PITCH _____.

ROOF SHEATHING _____.

POST SPACING	BEAM SIZE USING DOUGLAS FIR #2 GRADING AGENCY WHPA, WCLIB RAFTER SPAN WITH 1'-6" OVERHANG							
	8'	9'	10'	11'	12'	13'	14'	15'
8'								
9'			4X6					
10'								
11'					4X8			
12'								
13'								
14'					4X10			
15'								

SQUARE FOOTING SIZE (W X W) IN INCHES

POST SPACING	RAFTER SPAN WITH 1'-6" OVERHANG							
	8'	9'	10'	11'	12'	13'	14'	15'
8'	12	12	14	14	14	14	16	16
9'	14	14	14	14	14	16	16	16
10'	14	14	14	16	16	16	16	18
11'	14	14	16	16	16	16	18	18
12'	14	16	16	16	18	18	18	18
13'	16	16	16	18	18	18	18	20
14'	16	16	18	18	18	20	20	20
15'	16	18	18	18	20	20	20	20

DESIGN CRITERIA

LIVE LOAD 10 PSF
DEAD LOAD 10 PSF
LIVE LOAD DEFLECTION L/360
ALLOWABLE SOIL BEARING 1000 PSF

STRUCTURAL WOOD SHEATHING

RATED SHEATHING, EXPOSURE 1
PLYWOOD DOC PS1 OR
ORIENTED-STRAND-BOARD (OSB) DOC PS2
PANEL THICKNESS SPAN RATING
15/32" 32/16
1/2" 24/0

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