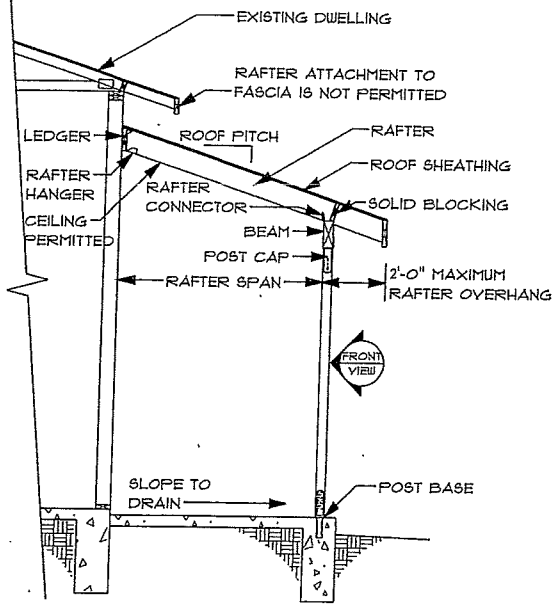




SINGLE FAMILY DWELLING PATIO COVER (LIGHT ROOFING MATERIAL)

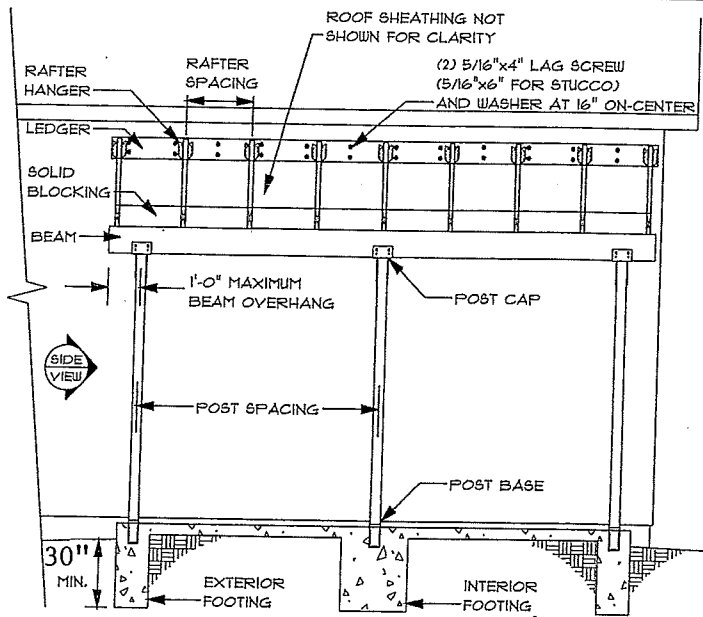
LIMITED TO 12'-0" MAXIMUM SPAN AND
10'-0" MAXIMUM POST HEIGHT IN ACCORDANCE WITH THE
2018 INTERNATIONAL RESIDENTIAL CODE (IRC)

NORTHERN
NEVADA
CHAPTER
INTERNATIONAL
CODE
COUNCIL



SIDE VIEW

NO SCALE



FRONT VIEW

NO SCALE

RAFTERS		
MIN. SIZE	MAX. SPACING	MAX. SPAN
2x4	12"	9'-10"
	16"	8'-11"
	24"	7'-10"
2x6	12"	12'-0"
	16"	12'-0"
	24"	11'-9"
2x8	12"	12'-0"
	24"	12'-0"

MAX. POST SPACING	HEADER				
	MAX. SPAN				
	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
8'-0"	4x6	4x6	4x6	4x8	4x8
9'-0"	4x8	4x8	4x8	4x8	4x8
10'-0"	4x8	4x8	4x8	4x8	4x8
11'-0"	4x8	4x8	4x10	4x10	4x10
12'-0"	4x10	4x10	4x10	4x10	4x10

- ALL LUMBER SHALL BE DOUGLAS FIR #2 U.N.O.
- ALL CONCRETE SHALL BE 3,500 PSI (5%-7% AIR ENTRAINED)

MINIMUM SQUARE FOOTING SIZE (OPTIONAL ROUND FOOTING SIZE)						
MAX. POST SPACING	FOOTING LOCATION	MAX. RAFTER SPAN				
		8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
8'-0"	EXTERIOR	12" (12")	12" (12")	12" (12")	12" (12")	12" (14")
	INTERIOR	12" (14")	14" (14")	14" (16")	14" (16")	14" (16")
9'-0"	EXTERIOR	12" (12")	12" (12")	12" (12")	12" (14")	12" (14")
	INTERIOR	14" (16")	14" (16")	14" (16")	14" (16")	16" (18")
10'-0"	EXTERIOR	12" (12")	12" (12")	12" (14")	12" (14")	12" (14")
	INTERIOR	14" (16")	14" (16")	16" (18")	16" (18")	16" (18")
11'-0"	EXTERIOR	12" (12")	12" (14")	12" (14")	12" (14")	14" (14")
	INTERIOR	14" (16")	16" (18")	16" (18")	16" (18")	16" (18")
12'-0"	EXTERIOR	12" (14")	12" (14")	12" (14")	14" (14")	14" (16")
	INTERIOR	16" (18")	16" (18")	16" (18")	18" (20")	18" (20")

PROJECT DESIGN CRITERIA

OWNER: _____ ADDRESS: _____

PARCEL NO.: _____ OVERALL DIMENSION: _____

ELEVATION ABOVE SEA LEVEL: _____ GROUND SNOW LOAD: 20-PSF DESIGN WIND LOAD 105-MPH, (3-SECOND GUST); EXPOSURE C TOTAL SQ. FT.: _____ SEISMIC DESIGN CATEGORY: D2

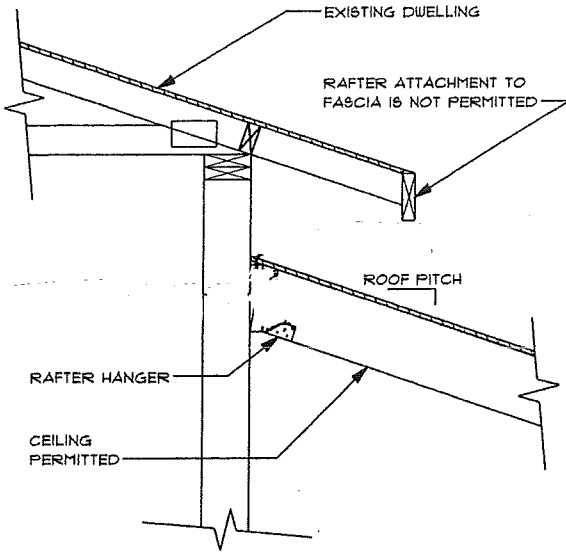
DESIGN ROOF LIVE LOAD: 20-PSF DESIGN ROOF DEAD LOAD: 10-PSF ALLOWABLE DEFLECTION: L/240 DESIGN SOIL BEARING PRESSURE: 1500-PSF

ROOF COVERING: _____ ROOF SHEATHING (1/2" MINIMUM): _____ ROOF PITCH (2:12 MIN, 5:12 MAX.): _____ LEDGER SIZE (LxW): _____

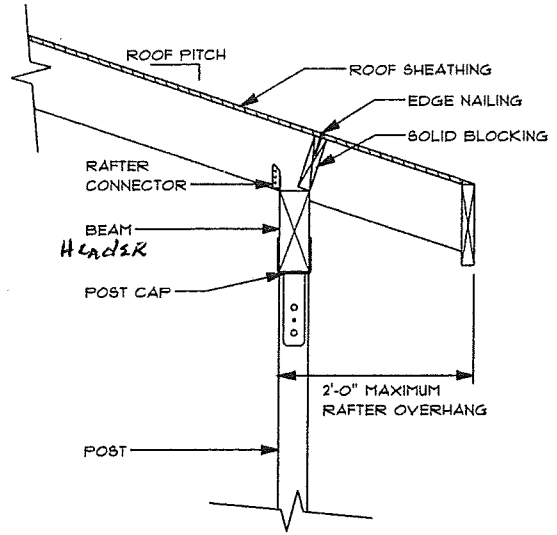
RAFTERS: _____ RAFTER SPACING (24" MAXIMUM): _____ RAFTER SPAN (12'-0" MAXIMUM): _____ RAFTER HANGER (212* MIN. UPLIFT) (360* MIN. DOWNLOAD): _____

RAFTERS CONNECTOR TO BEAM (369* MIN. UPLIFT): _____ BEAM SIZE: _____ POST SIZE (LxWxH) (4"x4"x6'-8" MIN.): _____ POST SPACING (12'-0" MAXIMUM): _____

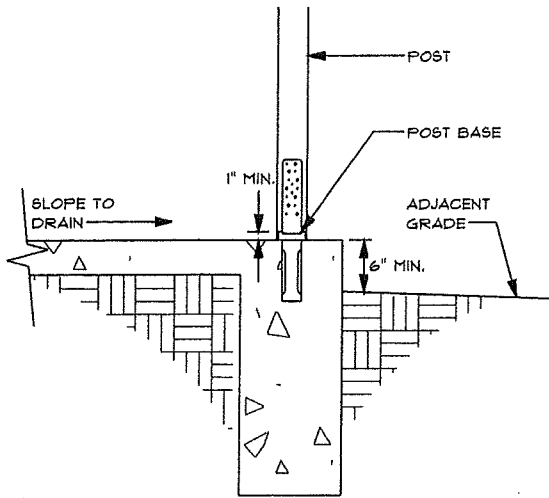
POST CAP (2,214* MIN. UPLIFT): _____ POST BASE (2,214* MIN. UPLIFT): _____ EXT. FOOTING SIZE (SQUARE/ROUND): _____ INT. FOOTING SIZE (SQUARE/ROUND): _____



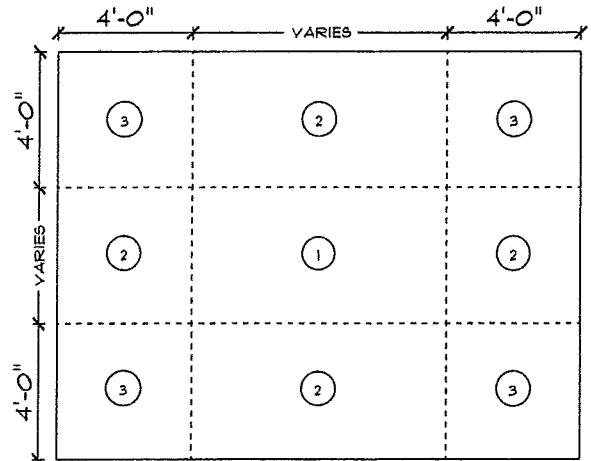
LEDGER CONNECTION (NO SCALE)



RAFTER/BREAM/POST CAP CONNECTION (NO SCALE)



POST BASE CONNECTION (NO SCALE)



FASTENER: 8d COMMON NAIL

ZONE	EDGE NAILING	FIELD NAILING
1	6" ON-CENTER	12" ON-CENTER
2 & 3	6" ON-CENTER	6" ON-CENTER

ROOF SHEATHING NAILING SCHEDULE (NO SCALE)

GENERAL NOTES

1. ALL LUMBER SHALL BE DOUGLAS FIR #2 U.N.O.
2. ALL CONCRETE SHALL BE 3,500 PSI (5%-7% AIR ENTRAINED)
3. ALL HARDWARE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. NUMBER, TYPE, AND SPACING OF FASTENERS FOR STRUCTURAL MEMBERS SHALL COMPLY WITH IRC TABLE R602.3(1).
5. CLAY AND CONCRETE TILE REQUIRE TWO LAYERS OF UNDERLAYMENT FOR ROOF SLOPES FROM 2-1/2:12 TO 4:12. A MINIMUM ROOF SLOPE OF 2-1/2:12 IS REQUIRED FOR CLAY AND CONCRETE TILE.

HEADER TABLE FOR ROOF SPANS Up to 15'-FOR PATIO COVER ONLY

Length of Span	Load Bearing Header Size		Non-Load Bearing Header Size	
4' or less	4"x4"	*****	4"x4"	*****
4' to 6'	4"x6"	*****	4"x4"	*****
6' to 8'	4"x8"	6"x6"	4"x6"	6"x6"
8' to 10'	4"x10"	6"x8"	4"x6"	6"x6"
10' to 12'	4"x10"	6"x8"	4"x8"	6"x6"
12' to 14'	4"x12"	6"x10"	4"x8"	6"x6"
14' to 16'	4"x14"	6"x12"	4"x10"	6"x8"

LOAD BEARING EXTERIOR HEADERS-ROOF & CEILING ONLY (IRC TABLE R502.5(1))

Size	BUILDING WIDTH					
	20'		26'		36'	
	Span	# of Jack Studs	Span	# of Jack Studs	Span	# of Jack Studs
2-2x4	3'6"	1	3'2"	1	2'10"	1
2-2x6	5'5"	1	4'8"	1	4'2"	1
2-2x8	6'10"	1	5'11"	2	5'4"	2
2-2x10	8'5"	2	7'3"	2	6'6"	2
2-2x12	9'9"	2	8'5"	2	7'8"	2
2-2x8	8'4"	1	7'5"	2	6'8"	2
3-2x10	10'6"	1	9'1"	2	8'2"	2
3-2x12	12'2"	2	10'7"	2	9'5"	2
4-2x8	9'2"	1	8'4"	1	7'8"	1
4-2x10	11'8"	1	10'6"	1	9'5"	2
4-2x12	14'1"	1	12'2"	2	10'11"	2

Rafter Spans for Douglas Fir-Larch #2 - Ceiling not attached to rafters (R802.5.1(1))

Rafter Spacing	2x4	2x6	2x8	2x10	2x12
12" o.c.	10'10"	16'7"	21'	25'8"	*
16" o.c.	9'10"	14'4"	18'2"	22'3"	25'9"
19.2 o.c.	8'11"	13'1"	16'7"	20'3"	23'6"
24" o.c.	8'0"	11'9"	14'10"	18'2"	21'0"

*Span exceeds 26 feet in length

Rafter Spans for Douglas Fir-Larch #2 - Ceiling attached to rafters (R802.5.1(2))

Rafter Spacing	2x4	2x6	2x8	2x10	2x12
12" o.c.	9'10"	15'6"	20'5"	25'8"	*
16" o.c.	8'11"	14'1"	18'2"	22'3"	25'9"
19.2 o.c.	8'5"	13'1"	16'7"	20'3"	23'6"
24" o.c.	7'10"	11'9"	14'10"	18'2"	21'

*Span exceeds 26 feet in length

Rafter Ties:

Where ceiling joists are not parallel to rafters, the rafters shall be tied to 2"x4" minimum size rafter ties and installed in accordance with the connection requirements in Table R802.5.1(9) or connections of equivalent capacities will be provided. (R802.3.1)

Collar Ties:

Collar ties or ridge straps to resist wind uplift shall be connected in the upper third of the attic space in accordance with Table R602.3(1). Collar ties shall be a minimum of 1"x4", spaced not more than 4 feet on center. (R802.3.1.)