

For 100 amps:
 3-#4 Copper or 3-#2 Aluminum, RII, RIII, RIIV,
 THW, THWN, XHHW. N.E.C. 310-16-19.
 Neutral conductor shall be identified by a continuous
 white or gray outer finish along its entire length.

Overhead Clearances
 Above walkway, 10'
 Residential Driveway, 12'
 Roadway & Drives subject to truck traffic, 18'

Roof Clearances
 Pitch less than 4-in-12, 8'
 Pitch greater than 4-in-12, 3'

Drip loops must be formed in
 accordance with N.E.C. 230-54(f).
 Note: Distance is 10' to bottom of
 the drip loop. N.E.C. 230-24 (b)

Periscope Risers in
 excess of 30" above
 roof must be
 adequately braced.

18" if passing over not
 more than 4' of overhang.
 N.E.C. 230-24, Exception 3.

100 Amp Max.
 1-1/4" Rigid Steel Riser
 Table 3 Chapter 9
 Over 100 Amp Requires 2" Riser

Front clear space 30" wide,
 36" deep, from front of
 service box.
 Note: Must be readily accessible.

All breakers shall be
 clearly & permanently labeled.
 All unused openings must be
 effectively closed.

Grounding of metal boxes and equipment
 must be by means of metal raceway,
 cable armor, or grounding conductor which
 is part of an approved cable assembly.

Gas piping must be bonded
 to the cold water piping.
 N.E.C. 250-80 (a&b)

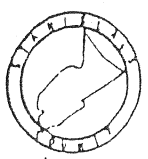
Driven Ground Rod or UFER
 N.E.C. 250-83 (c) 1,2&3

Grounding Electrode Conductor for AC Systems			
Service Rating			
Copper	Aluminum	In Amps	Ground Size
4	2	100	8*
2	1/0	125	8*
1	2/0	150	6
1/0	3/0	175	6
2/0	4/0	200	4

*Must be protected in armor cable.

NOTES:
 1. SWITCH, CIRCUIT BREAKER, OR PANEL OF 100 AMPERE RECOMMENDED
 MINIMUM CAPACITY APPROVED FOR USE AS SERVICE EQUIPMENT, RAIN TIGHT,
 UNLESS IN CARPORT OR ACCESSIBLE METER ROOM OR BOX.

Revised 5/17/99 JSG



Stanislaus County
 BUILDING INSPECTION DIVISION
 General Construction Details

TITLE	
Residential Electrical Service	
Date: 8/7/97	Drawn by: J.S.G.
File Name: ES_1.dwg	Sheet: 1 of 1