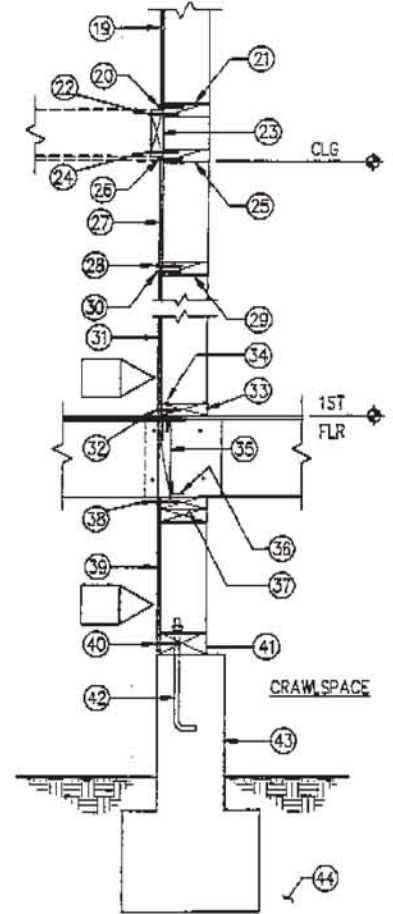
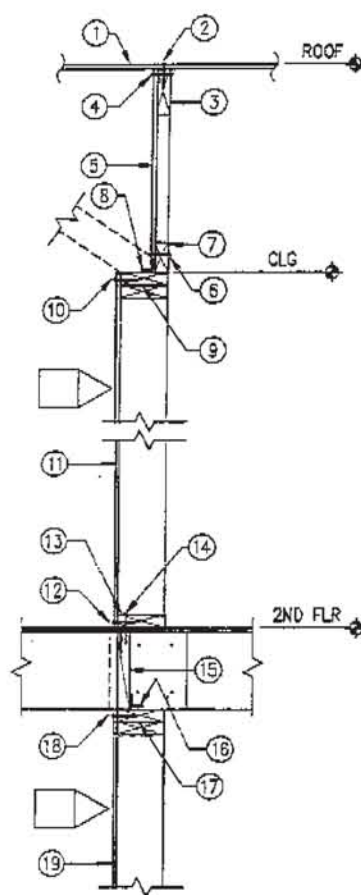
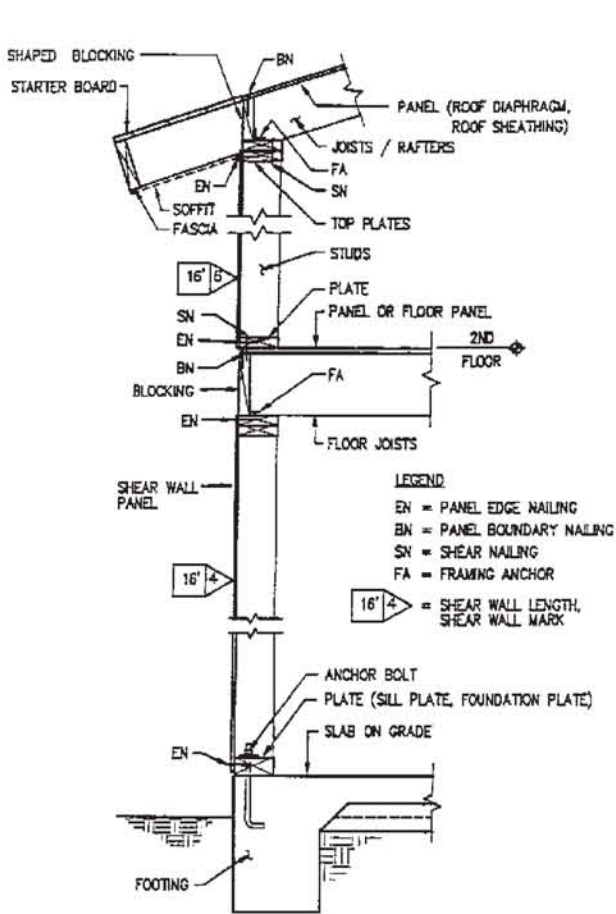




# Building and Safety Division • Public Information

County of Ventura • Resource Management Agency • [http://www.ventura.org/rma/build\\_safe](http://www.ventura.org/rma/build_safe)  
 Main Office • 800 S. Victoria Ave, Ventura, CA. 93009 • 805 654-2771  
 East County Office • 3855-F Alamo St., 2nd Fl. #2091A, Simi Valley, CA. 93065 • 805 582-8064

## MOST COMMONLY USED EARTHQUAKE / WIND LOADS SHEAR TRANSFER DETAILS



EXAMPLES OF TIMBER TERMS

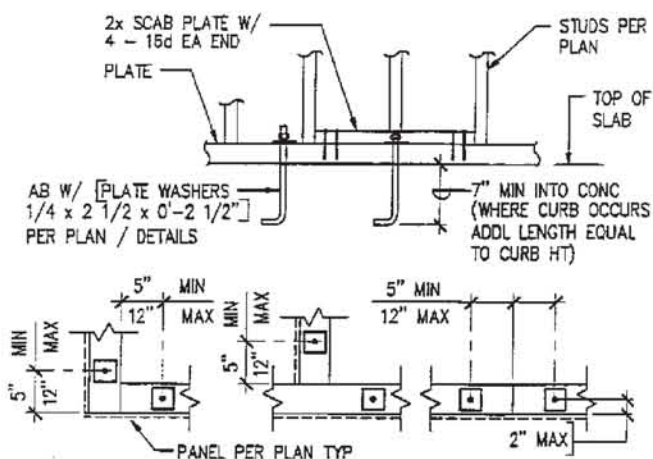
LOAD PATH EXAMPLE

Top of section

1. Roof panel
2. Nail (wood structural panel (panel) boundary nailing) BN
3. Top chord of truss
4. Nail (panel edge nailing) EN
5. Wood structural panel
6. Nail (panel edge nailing) EN
7. Bottom chord of truss
8. FA connector \*
9. Upper top plate
10. Nail (panel edge nailing) EN
11. Wood structural panel
12. Nail (panel edge nailing) EN
13. Plate
14. Nail (shear nailing) SN
15. Blocking
16. FA connector
17. Upper top plate
18. Nail (panel edge nailing) EN
19. Wood structural panel
20. Nail (panel edge nailing) EN
21. Blocking

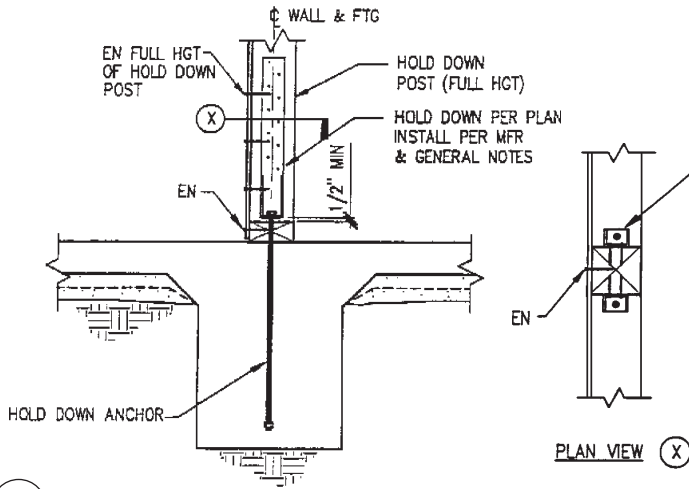
23. Ledger or blocking
24. Nail (ledger shear nailing) SN
25. Blocking
26. Nail (panel edge nailing) EN
27. Wood structural panel
28. Nail (panel edge nailing) EN
29. Wood structural panel blocking
30. Nail (panel edge nailing) EN
31. Wood structural panel
32. Nail (panel edge nailing) EN
33. Plate
34. Nail (shear nailing) SN
35. Blocking
36. FA connector
37. Upper top plate
38. Nail (panel edge nailing) EN
39. Wood structural panel
40. Nail (panel edge nailing) EN
41. Plate (foundation plate)
42. Anchor bolt
43. Footing
44. Earth

Bottom of section (point of application)

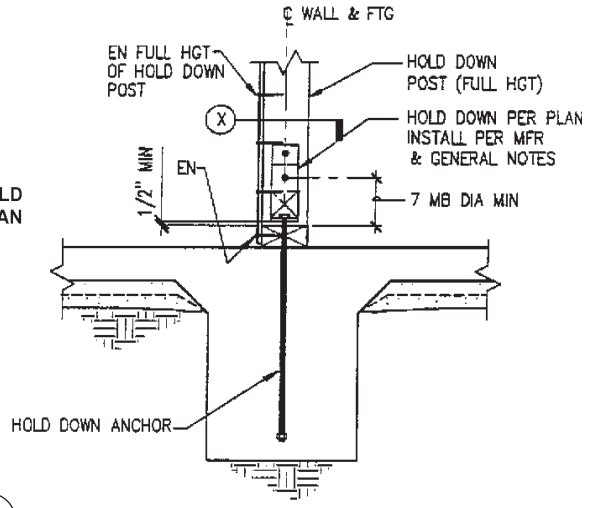


1 TYPICAL PLATE ANCHOR BOLTS

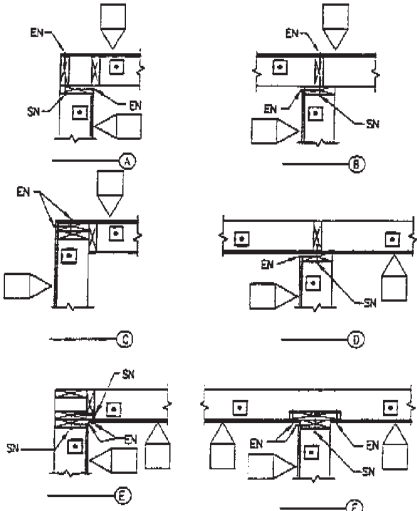
\* FA connector consists of a bent sheet metal framing connector with nails attaching it to the two the adjacent elements. Toe-nails may be used in lieu of the FA connector when loads are less than 150 pounds per linear foot. (1996 SEAOC Blue Book, Section 802.1.1)



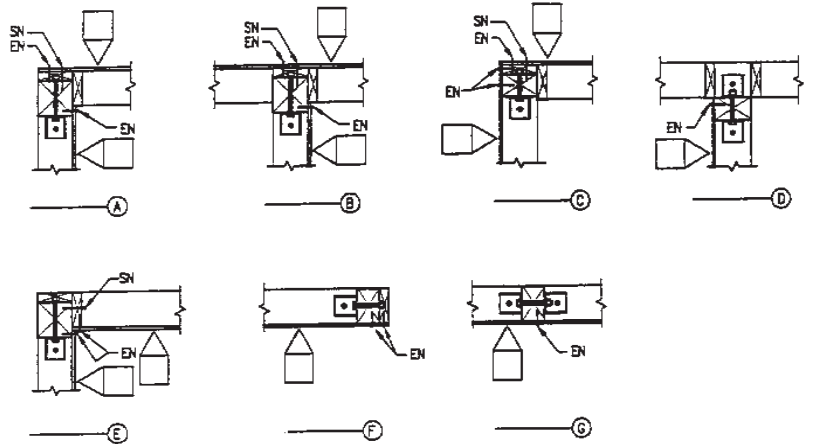
2 NAILED/SCREWED HOLD DOWN



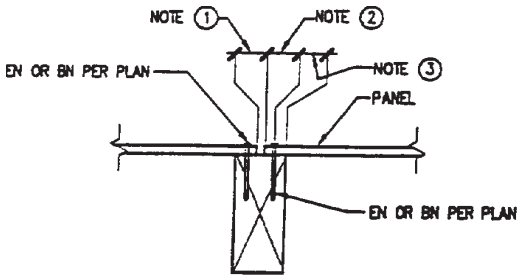
3 BOLTED HOLD DOWN



4 TYPICAL SHEAR WALL INTERSECTIONS (NO HOLD DOWNS)

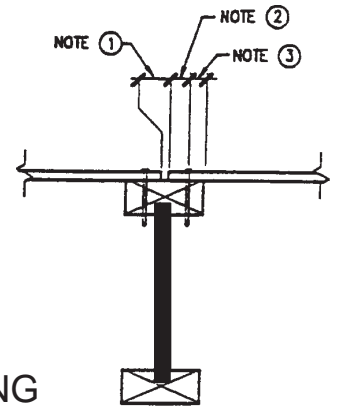


5 TYPICAL SHEAR WALL INTERSECTIONS (WITH HOLD DOWNS)

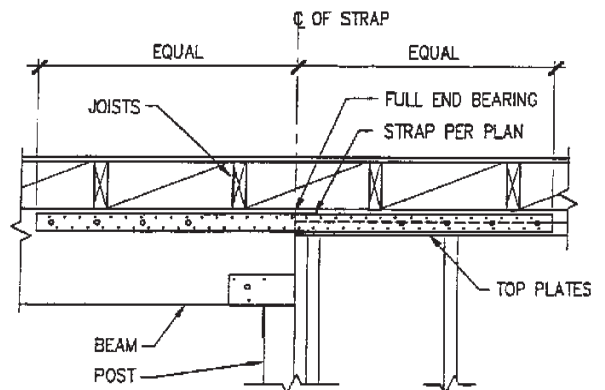
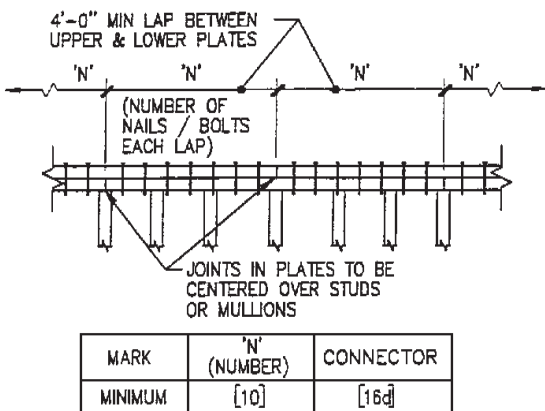


6 TYPICAL WOOD STRUCTURAL PANEL NAILING

- NOTE 1 CLEARANCES PER PANEL MFR
- NOTE 2 [1/2"] MIN PANEL EDGE DISTANCE
- NOTE 3 [3/8"] MIN LUMBER EDGE DISTANCE

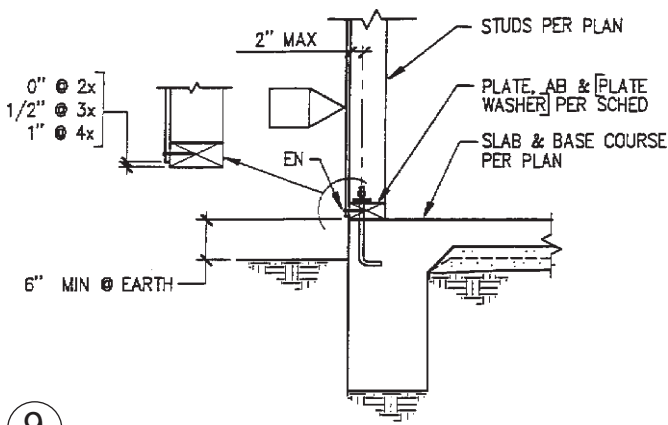


7 2X TOP PLATE SPLICE (NAILED/BOLTED)

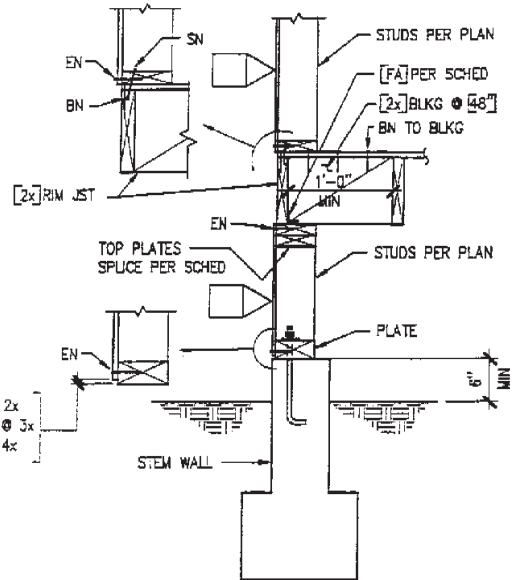


8 STRAP - BEAM TO TOP PLATES

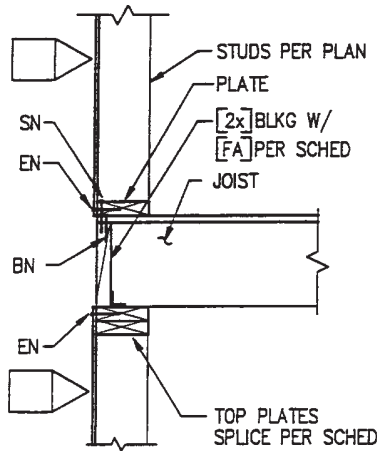
| MARK    | 'N' (NUMBER) | CONNECTOR |
|---------|--------------|-----------|
| MINIMUM | [10]         | [16d]     |



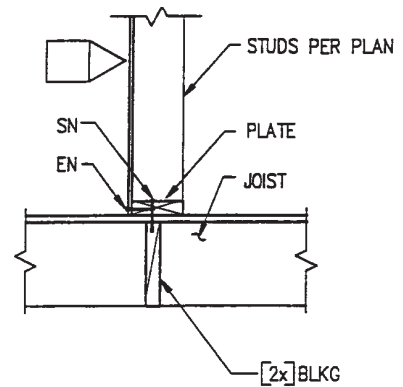
9 EXTERIOR FOOTING



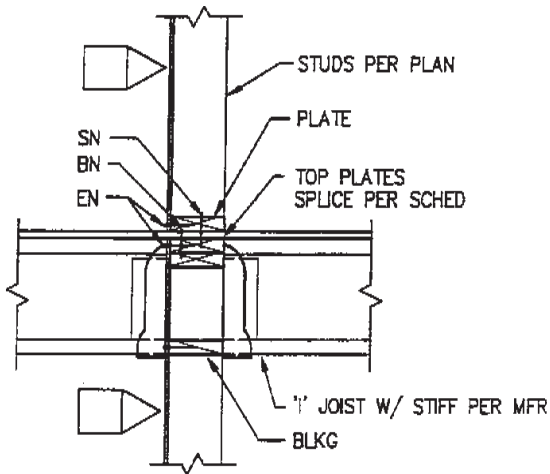
10 EXTERIOR FOOTING W/ CRIPPLE WALL



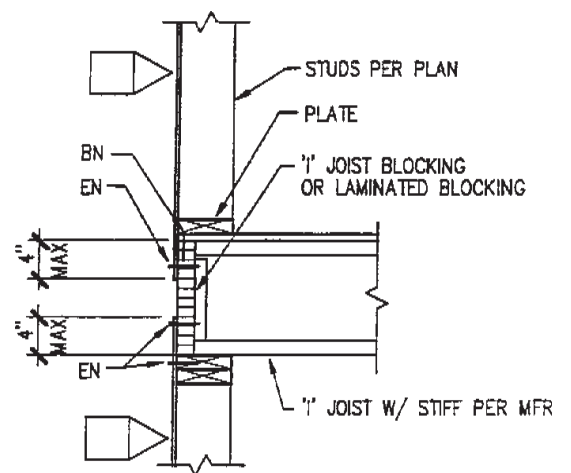
11 EXTERIOR SHEAR WALL W/ BLOCKING



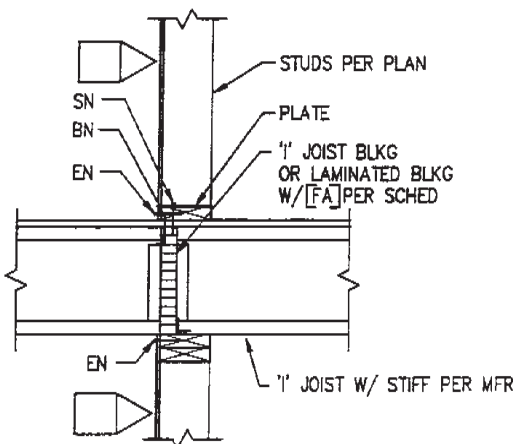
12 INTERIOR SHEAR WALL ABOVE



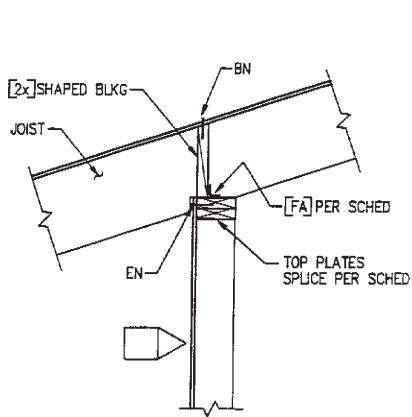
13 INTERIOR SHEAR WALL W/ I-JOISTS



14 EXTERIOR SHEAR WALL W/ I-JOISTS

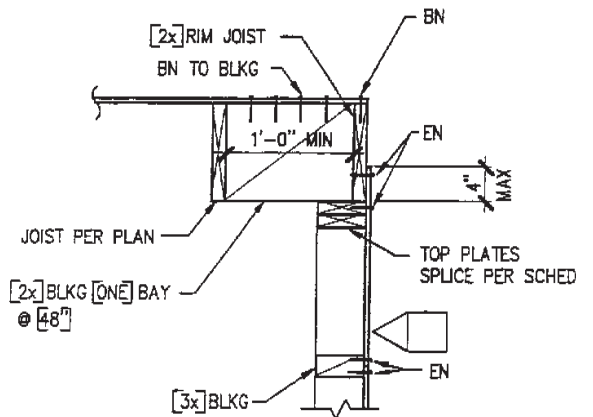


15 INTERIOR SHEAR WALL W/ I-JOISTS



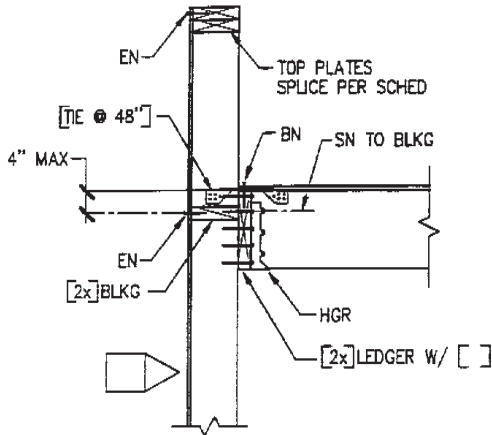
16

JOISTS AT BEARING WALL



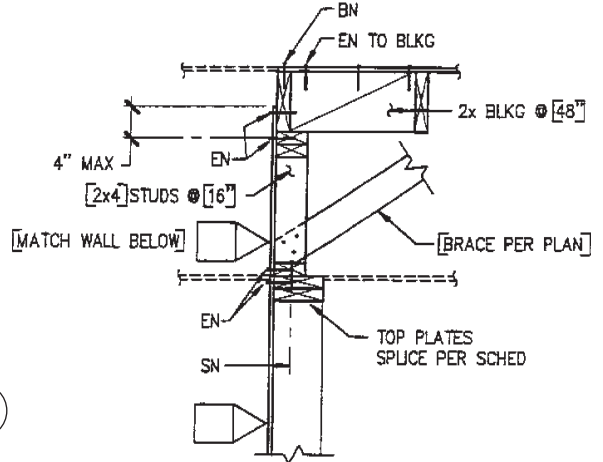
17

RIM JOISTS AT SHEAR WALL



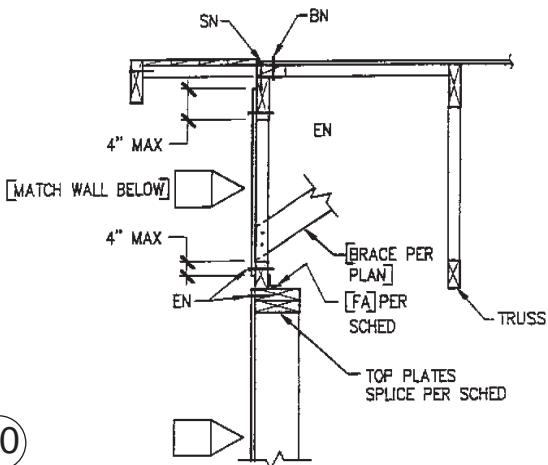
18

BALLOONED FRAMED SHEAR WALL W/ LEDGER



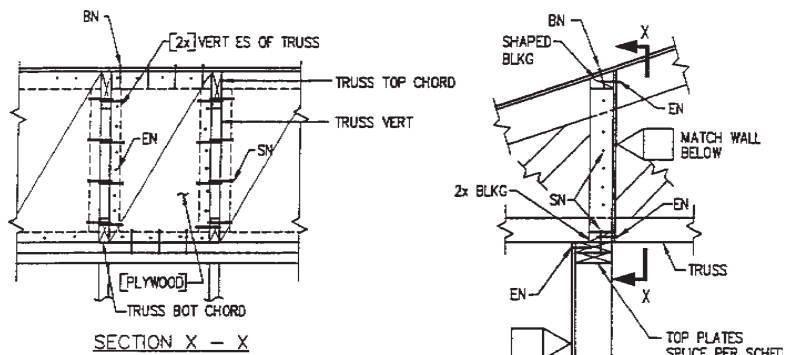
19

PLATFORM FRAMED SHEAR WALL W/ ATTIC RAKE



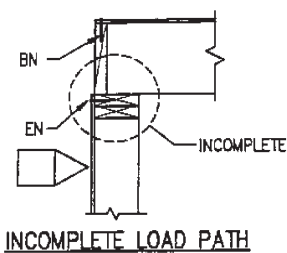
20

GABLE END TRUSS OVER SHEAR WALL

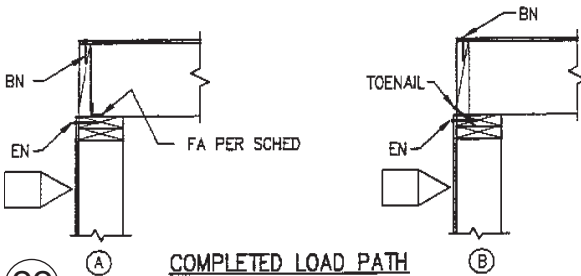


21

INTERIOR SHEAR WALL PERPENDICULAR TO TRUSSES



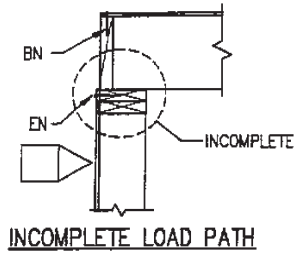
INCOMPLETE LOAD PATH



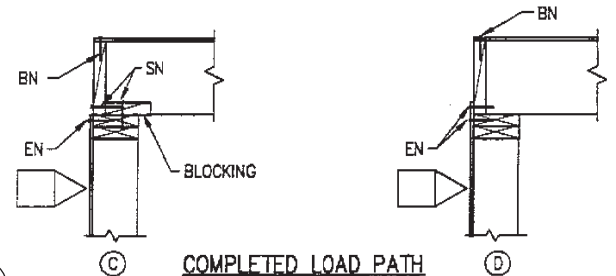
COMPLETED LOAD PATH

22

LOAD PATH EXTERIOR FLOOR/ROOF FRAMING



INCOMPLETE LOAD PATH

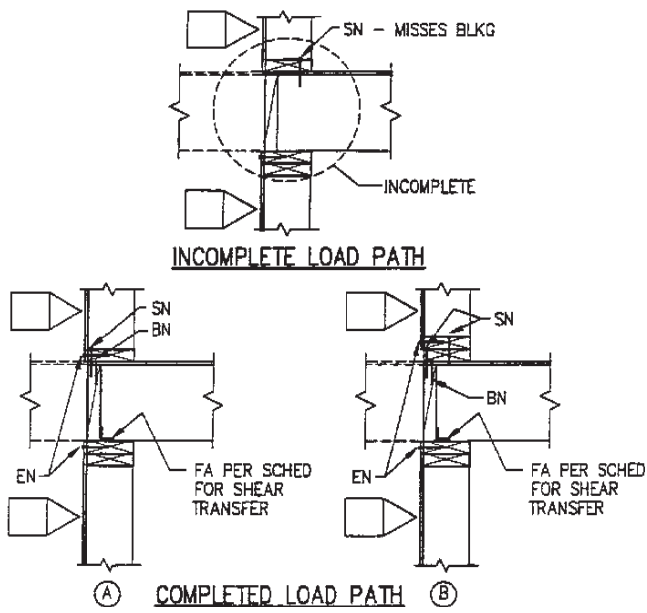


COMPLETED LOAD PATH

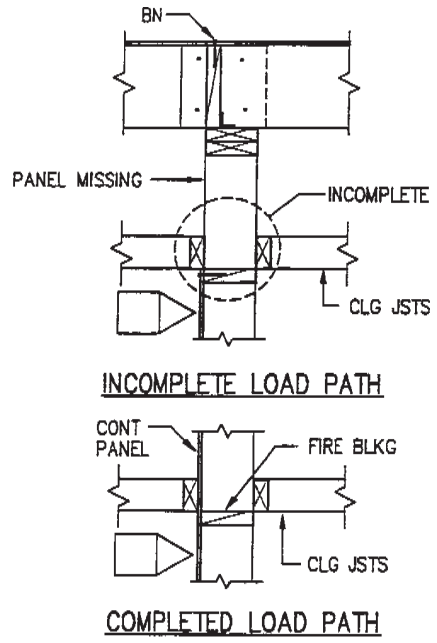
23

LOAD PATH EXTERIOR FLOOR/ROOF FRAMING

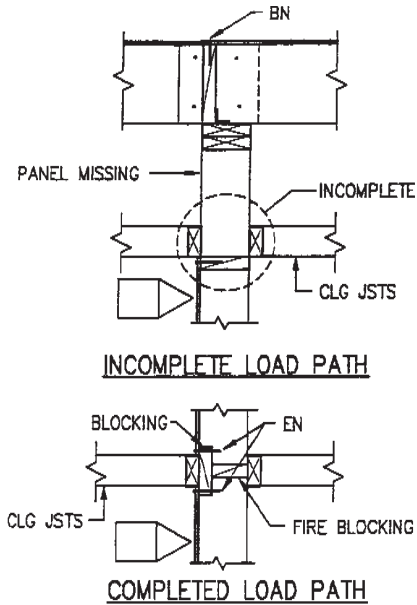




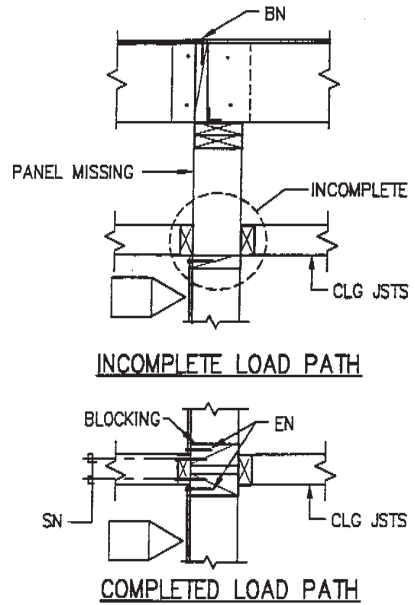
24 LOAD PATH  
INTERIOR FLOOR FRAMING



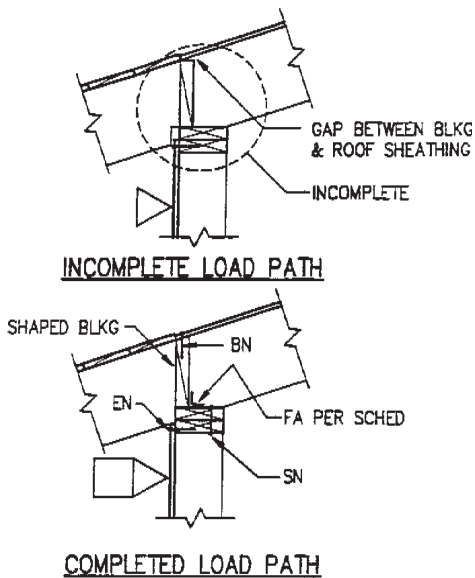
25 LOAD PATH  
INTERIOR WALL W/ CEILING JOISTS



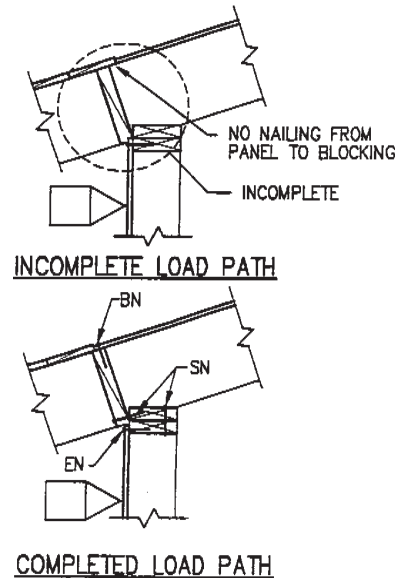
26 LOAD PATH  
INTERIOR WALL W/ CEILING JOISTS



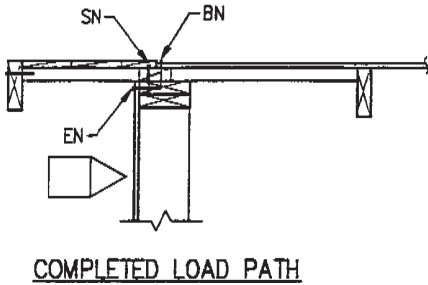
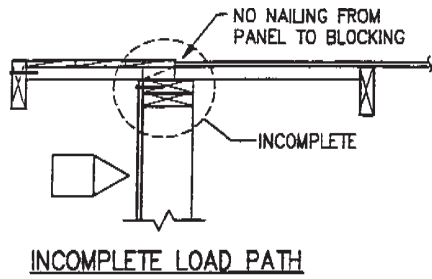
27 LOAD PATH  
INTERIOR WALL W/ CEILING JOISTS



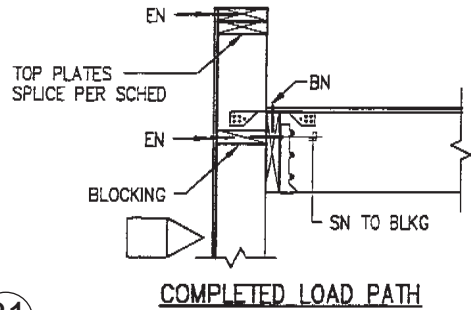
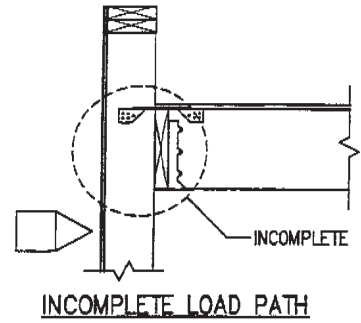
28 LOAD PATH  
ROOF JOISTS AT PITCHED ROOF



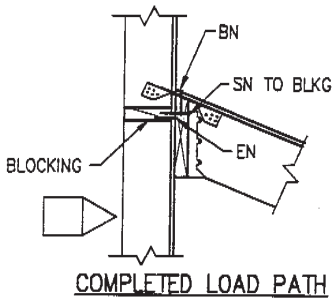
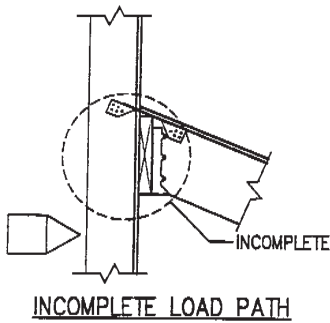
29 LOAD PATH  
ROOF JOISTS AT PITCHED ROOF



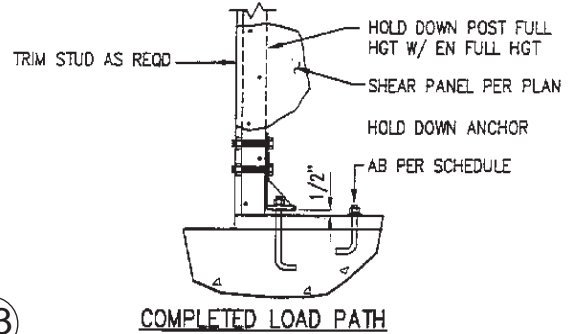
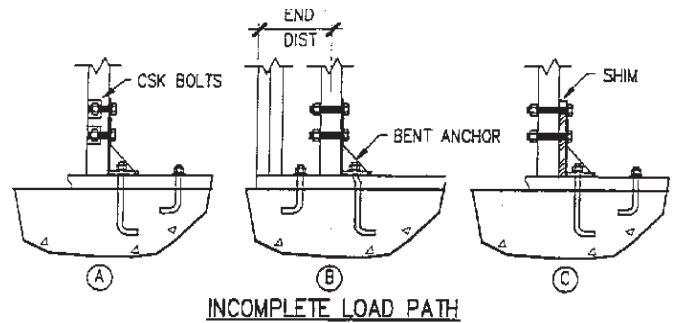
30  
LOAD PATH  
ROOF JOISTS AT PITCHED ROOF



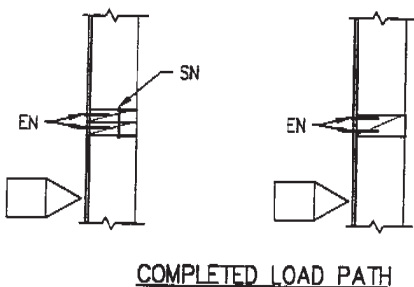
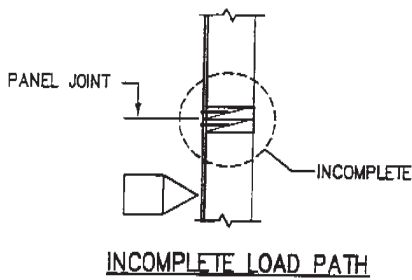
31  
LOAD PATH  
ROOF JOISTS AT PARAPET



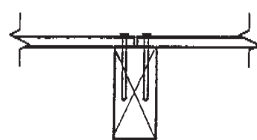
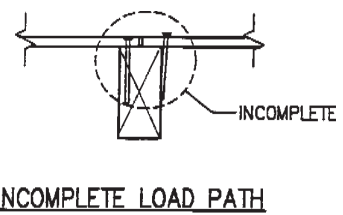
32  
LOAD PATH  
ROOF JOISTS AT PARAPET



33  
LOAD PATH - HOLD DOWN



34  
LOAD PATH  
PANEL NAILING



35  
LOAD PATH  
PANEL NAILING