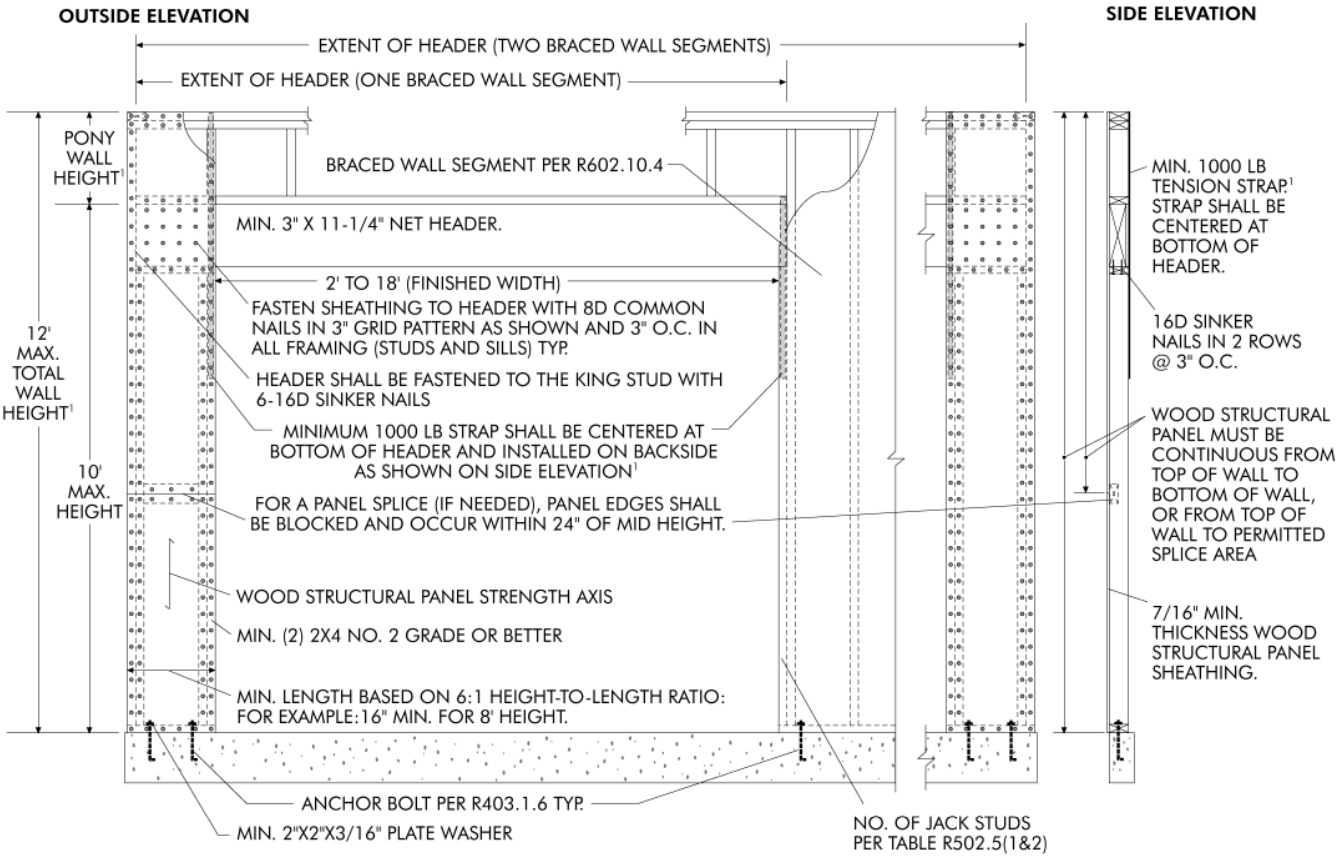
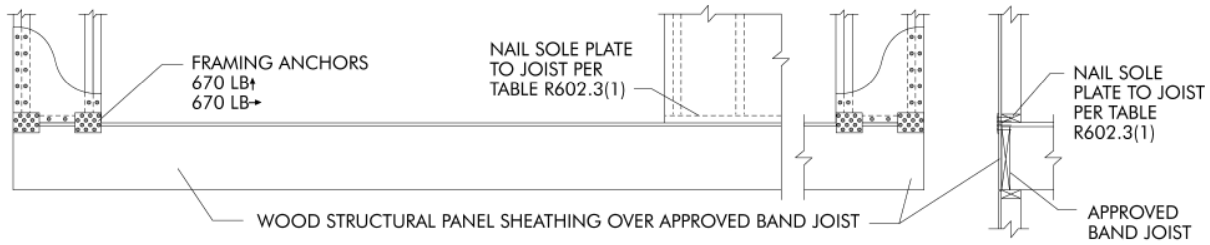
Fix for Cripple/Pony Walls Above Portal Frames

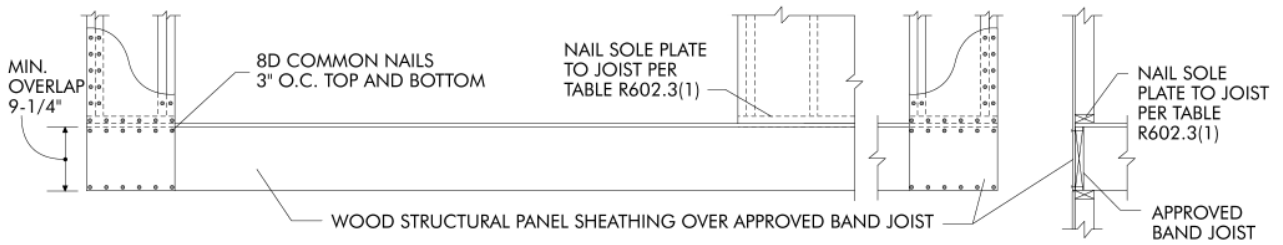


[1]See table on back for pony wall and strap reinforcement requirements.

OVER CONCRETE OR MASONRY BLOCK FOUNDATION



OVER RAISED WOOD FLOOR OR SECOND FLOOR – FRAMING ANCHOR OPTION



OVER RAISED WOOD FLOOR OR SECOND FLOOR – WOOD STRUCTURAL PANEL OVERLAP OPTION

NOT TO SCALE

Typical Portal Frame Construction with Pony Wall

TENSION STRAP CAPACITY REQUIRED FOR PORTAL FRAMES BUILT WITH PONY WALLS[a,b]

Minimum Wall Stud Framing Nominal Size and Grade	Maximum Pony Wall Height (ft)	Maximum Total Wall Height (ft)	Maximum Opening Width (ft)	Basic Wind Speed (mph)					
				85	90	100	85	90	100
				Exposure B			Exposure C		
				Tension strap capacity required (lbf)[a,b]					
2x4 No. 2 Grade	0	10	18	1000	1000	1000	1000	1000	1000
	1	10	9	1000	1000	1000	1000	1000	1275
			16	1000	1000	1750	1800	2325	3500
	2	10	9	1000	1000	1025	1075	1550	2500
			16	1525	2025	3125	3200	3900	NP
	2	12	9	1000	1200	2075	2125	2750	4000
			16	2600	3200	NP	NP	NP	NP
	4	12	9	1775	2350	3500	3550	NP	NP
			16	4175	NP	NP	NP	NP	NP
2x6 Stud Grade	2	12	9	1000	1000	1325	1375	1750	2550
			16	1650	2050	2925	3000	3550	NP
	4	12	9	1125	1500	2225	2275	2775	3800
			16	2650	3150	NP	NP	NP	NP

a. NP = not permitted
b. Strap shall be installed in accordance with manufacturer's recommendations.