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Date: 22-Oct-03

Client: PDG Domus, Inc
Project Description: The Hartford
Project No.: 2003-1260

Applicable Codes: 1999 Ohio Residential Code for 1 & 2 family Dwellings
2002 National Electric Code (NEC)
1997 Nation Design Specification (NDS)
Manual of Steel Construction - ASD 9th Edition

Reviewed By: William R. Heiden, P.E.

Item	Sheet or Page No.	Code Reference	CALCULATION/DRAWING DEVIATION Location/ Description of Deviation
1	S9	NA	Climatic & Geographic design information / Cover states 30 psf for Roof LL and snow load
2	S9	NA	Climatic & Geographic design information / Is 1.5 psf correct for the dead load?
3	S9	Table 301.2(2)	Incorrect Wind Uplift Pressure at 80 mph for 3 story building (ORC)
4	S9	R202	Loads at balcony Beams/By Definition, the walkout should be referred to as a deck & not a balcony. Refer to table 301.4 for "Deck" loading.
5	S9	S1	Isometric view 1 / The 4" x 6" X 0.1875" Tube steel (2) places. Is called out as 5/16" (0.3125") on framing member schedule on sheet S1. Please correlate
6	Calc. pg. 2-3	ASD Sect. F3	Incorrect calculation of allowable bending stress for beams. Refer to ASD 9th ed. Chapter F, Section F3. (See examples attached)
7	Calc. pg. 2-3	ASD Sect. F4	Incorrect calculation of allowable shear stress for beams. Refer to ASD 9th ed. Chapter F, Section F4. (See examples attached)
8	Calc. pg. 2-3	ASD	Incorrect calculation of beam deflection. (See examples attached)
9	Calc. pg. 4	ACI 11.8.6	Incorrect calculation of concrete shear strength. Refer to ACI 318 Section 11.8.6
10	Calc. pg. 4		Incorrect calculation of pier diameter required for bearing strength (See examples attached)
11	Calc. pg. 3-4	ASD	Incorrect calculation of column Slenderness Ratio.
12	Calc. pg. 4	NDS Table 4a	Provide Treated Cedar Grade along with applicable Fb (bending stress) & E (modulus of elasticity)
13	Calc. pg. 4		Incorrect calculation of 2x8 treated cedar bending stress and deflection value.
14	Calc. pg. 5		Incorrect calculation of Roof Rafter & Ridge Plate bending stress. (See examples attached)
15	Calc. pg. 5		Provide deflection calculations for Roof Rafters & Ridge Beam (See examples attached)
16	Calc. pg. 5		Provide Railing calculations
17	Calc. pg. 6		Incorrect units on horizontal force value (kips vs. lbs.). Connection to resist shear.
18	Calc. pg. 6	ASD Table I-D	Incorrect single shear value for 3/4" dia. A325 bolt (threads excluded) See ASD 9th ed.
19	Calc. pg. 7		Incorrect calculation of Floor & Ceiling joist bending stress
20	Calc. pg. 7	ORC Table 301.6	Provide deflection calculations for Floor Joists (See examples attached)
21	Calc. pg. 7		Incorrect calculation of Stairwell Framing stress.
			All deflection criteria to meet ORC Table 301.6