

May 5, 2022

Summit Homes 120 SE 30th St. Lee's Summit, MO 64082

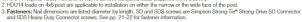
RE: Bracing and framing revision for lot # 132 Hawthorne Ridge – 3116 SW Arbortree Drive Lee's Summit. MO 64082 – Permit # PRRES20215763

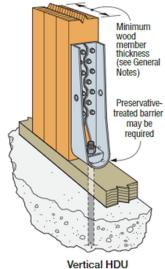
This letter addresses the framing and bracing revision for the lower-level daylight windows.

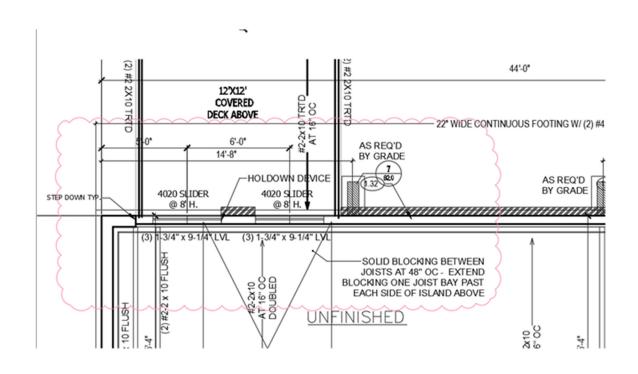
Recommendations:

- Install CS-WSP with end condition 2 (holdown device) as shown in image below.
- Install (3) 1-3/4" x 9-1/4" LVL's headers as shown in image below.
- Install HDU8-SDS2.5 for the hold down device per manufacturers specifications.
- See details below for more information.

These products protection. For r					orrosion	1	SS For s	stainless-steel eners, see p. 21.	with	Strong-Drive®	ducts are app SD Connecto for more inforr		n
Model No.		Dimensions (in.)						Fasteners (in.)	Minimum Wood	Allowable Tension Loads (160)			
	Ga.	w	н	В	CL	SO	Anchor Bolt Dia. (in.)	Wood Fasteners	Member Size (in.)	DF/SP	SPF/HF	Deflection at Allowable Load (in.)	Ref.
DTT1Z		1½	71/8	17/16	3/4	3/16	36	(6) #9 x 1 ½" SD	1½x5½	840	840	0.17	IBC, FL, LA
	14							(6) 0.148 x 1½		910	640	0.167	
								(8) 0.148 x 1 ½		910	850	0.167	
DTT2Z		31/4	615/16	1%	13/16	3/16	1/2	(8) 1/4 x 1 1/2 SDS	11/2 x 31/2	1,825	1,800	0.105	
	14							(8) 1/4 x 1 1/2 SDS	3 x 3½	2,145	1,835	0.128	
DTT2Z-SDS2.5								(8) 1/4 x 21/2 SDS	3 x 31/2	3 x 3½ 2,145 2,105	2,105	0.128	
HDU2-SDS2.5	14	3	811/16	31/4	15/16	1%	56	(6) 1/4 x 21/2 SDS	3 x 3½	3,075	2,215	0.088	
HDU4-SDS2.5	14	3	1015/16	31/4	1%	1%	%	(10) 1/4 x 2 1/2 SDS	3 x 3½	4,565	3,285	0.114	
HDU5-SDS2.5	14	3	13¾s	31/4	15/16	1%	%	(14) 1/4 x 21/2 SDS	3 x 31/2	5,645	4,340	0.115	
HDU8-SDS2.5		3	16%	31/2	1%	11/2	7∕a	(20) 1/4 x 2 1/2 SDS	3 x 3½	6,765	5,820	0.11	
	10								31/2 x 31/2	6,970	5,995	0.116	
									31/2 x 41/2	7,870	6,580	0.113	
HDU11-SDS2.5	10	3	221/4	31/2	1%	11/2	1	(30) 1/4 x 21/2 SDS	3½x5½	9,535	8,030	0.137	
	10								3½x7¼	11,175	9,610	0.137	
HDU14-SDS2.5		3	2511/16	31/2	1%6	1%6	1	(36) 1/4 x 21/2 SDS	3½x5½	10,770	9,260	0.122	1-
	7								3½x7¼	14,390	12,375	0.177	IBC
									51/2 x 51/2	14,445	12,425	0.172	FL, L







Sincerely,

Bradley Huxol, PE

