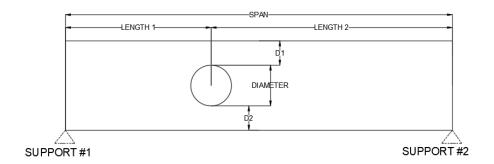


March 31, 2022

Clover & Hive 120 SE 30th St. Lee's Summit, MO 64082

RE: Field Issue of holes within bottom 2" of floor joists for SE cable for Lot #8 Osage – 3721, 3723, 3725, 3727 SW Walsh Dr. Lee's Summit, MO 64082 – Permit # PRRES20213109

This letter addresses the multiple bored holes within bottom 2" of floor joists for SE cable in multiple floor joists for Lot#8 Osage.



- D1 varies from 5.25" to 5.75"
- D2 varies from 1.5" to 2"
- Diameter of hole 2"
- Length 1 5.2'
- Length 2 10.3'
- Span 15.5'
- Support #1 foundation wall
- Support #2 W8x28 steel beam
- Location under kitchen
- Loading
 - o Dead = 10 psf @ 16" oc
 - Live = 40 psf @ 16" oc

Recommended modifications:

• Install a 36" length of CS16 strap per manufacturer's specs centered under the holes along the bottom of each bored floor joist.

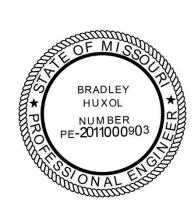
Model No.	Total L	Ga.	DF/SP		SPF/HF		Allowable	0-4-
			Fasteners	End Length	Fasteners	End Length	Tension Loads (160)	Code Ref.
CMST12	40'	12	(74) 16d	33"	(84) 16d	38"	9,215	I4., L3, FL
			(86) 10d	39"	(98) 10d	44"	9,215	
CMST14	5216	14	(56) 16d	26"	(66) 16d	30"	6,490	
			(66) 10d	30"	(76) 10d	34"	6,490	
CMSTC16	54'	16	(50) 16d sinker	20"	(58) 16d sinker	25"	4,585	
CS14	100'	14	(26) 10d	15"	(30) 10d	16"	2,490	
			(30) 8d	16"	(36) 8d	19"	2,490	
CS16	150'	16	(20) 10d	11"	(22) 10d	13"	1,705	
			(22) 8d	13"	(26) 8d	14"	1,705	
CS18	200'	18	(16) 10d	9"	(18) 10d	11"	1,370	
			(18) 8d	11"	(22) 8d	12"	1,370	
CS20	250'	20	(12) 10d	6"	(14) 10d	9"	1,030	
			(14) 8d	9"	(16) 8d	9"	1,030	
CS22	300'	22	(10) 10d	7"	(12) 10d	7"	845	
			(12) 8d	7"	(14) 8d	8"	845	

Fastener quantities and end lengths are calculated using an increase for wind or seismic loading.
 Use half of the required nails in each member being connected to achieve the listed loads.
 Calculate the connector value for a reduced number of nails as follows:

Allowable Load = No. of Nalls Used x Table Load

Example: CMSTC16 in DF/SP with 40 nails total. (Haif of the nails in each member being connected)

Allowable Load = 40 Nalls (Used), x 4,585 lb. = 3,668 lb.



Sincerely,

Bradley Huxol, PE

^{4.} Tension loads apply for uplift when installed vertically.

5. Nalls: 16d = 0.162° dia. x 34° long, 16d sinker = 0.148° dia. x 34° long, 10d = 0.148° dia. x 3° long. See pp. 26-27 for other nall sizes and information.