

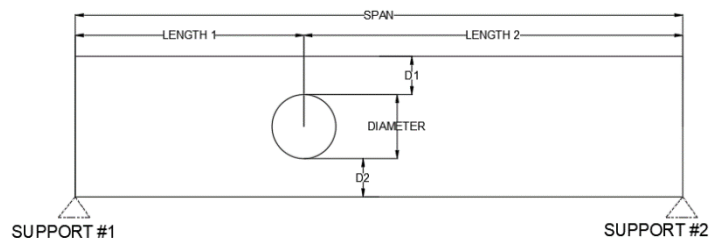
February 20, 2024

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

RE: Field Issues for Lot #14 Osage – 3722-3730 SW Maryville Pl, Lee's Summit, MO 64082

1. 3726 SW Maryville Pl – holes within 2" of one another:

- D1 – At least 2"
- Diameter – 3"
- D2 – At least 2"
- Span – 14'
- Length 1 – 3'
- Length 2 – 11'
- Support #1 – Rear garage wall
- Support #2 – W10x22 steel beam
- Location – Garage



Recommended modifications:

- Install 24" length of CS-16 centered under hole along bottom of floor joist per manufacturer's specifications.

2. 3726 SW Maryville Pl – Overbored hole in header

- D1 – 3"
- Diameter – 3.5"
- D2 – 2.75"
- Span – 2' 8"
- Length 1 – 1' 8"
- Length 2 – 8.5"
- Support #1 – Floor joist
- Support #2 – Floor joist
- Location – Foyer

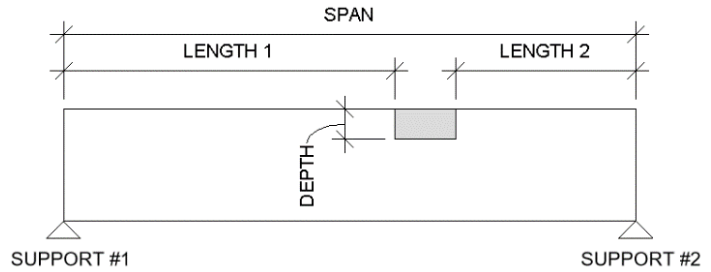
Model No.	Total L	Ga.	DF/SP		SPF/HF		Allowable Tension Loads (16d)	Code Ref.
			Fasteners	End Length	Fasteners	End Length		
CMST12	40'	12	(74) 16d (86) 10d	33" 39"	(84) 16d (98) 10d	38" 44"	9,215 9,215	14, L3, FL
CMST14	52W'	14	(56) 16d (66) 10d	26" 30"	(66) 16d (76) 10d	30" 34"	6,490 6,490	
CMSTC16	54'	16	(50) 16d (58) 16d	20" 25"	(58) 16d (66) 16d	25" 30"	4,585 4,585	
CS14	100'	14	(26) 10d (30) 8d	15" 16"	(30) 10d (36) 8d	16" 19"	2,490 2,490	
CS16	150'	16	(20) 10d (22) 8d	11" 13"	(22) 10d (26) 8d	13" 14"	1,705 1,705	
CS18	200'	18	(16) 10d (18) 8d	9" 11"	(18) 10d (22) 8d	11" 12"	1,370 1,370	
CS20	250'	20	(12) 10d (14) 8d	6" 9"	(14) 10d (16) 8d	9" 9"	1,030 1,030	
CS22	300'	22	(10) 10d (12) 8d	7" 7"	(12) 10d (14) 8d	7" 8"	845 845	
1. Fastener quantities and end lengths are calculated using an increase for wind or seismic loading. 2. Use half of the required nails in each member being connected to achieve the listed loads. 3. Calculate the connector value for a reduced number of nails as follows: Allowable Load = $\frac{\text{No. of Nails Used}}{\text{No. of Nails in Table}} \times \text{Table Load}$ Example: CMSTC16 in DF/SP with 40 nails total. (Half of the nails in each member being connected) Allowable Load = $\frac{40 \text{ Nails (Used)}}{50 \text{ Nails (Table)}} \times 4,585 \text{ lb.} = 3,668 \text{ lb.}$ 4. Tension loads apply for uplift when installed vertically. Nails: 16d = 0.162" dia. x 3 1/4" long. 16d shaker = 0.148" dia. x 3 1/4" long. 10d = 0.148" dia. x 3" long. See pp. 26-27 for other nail sizes and information.								

Recommended modifications:

- Install 24" length of CS-16 centered under hole along bottom of floor joist per manufacturer's specifications.

3. 3728 SW Maryville Pl – Over notched FJ near front entryway:

- SPAN – 15' 8"
- LENGTH 1 – 1' 8"
- LENGTH 2 – 13' 8"
- NOTCHED LOCATION - Top
- DEPTH – 4"
- SUPPORT #1 – (2) 2x10 BM
- SUPPORT #2 – Exterior Wall
- LOCATION – Foyer
- MEMBER – 2X10 FJ @ 16" OC
- Loading -
 - Dead = 10 psf @ 16" oc
 - Live = 40 psf @ 16" oc



Recommendations:

Everstead recommends sistering the notched 2x10 FJ with a 4', #2 Douglas Fir-Larch 2x6. 2x6 sister shall rest against the (2) 2x10 BM and fasten to the FJ w/ (2) 10D Common nails every 6" staggered.

We would like to thank you for the opportunity to consult you on your project. Please feel free to contact us if you have any questions regarding this report or need any further consultation.

Sincerely,

Bradley Huxol, PE



