

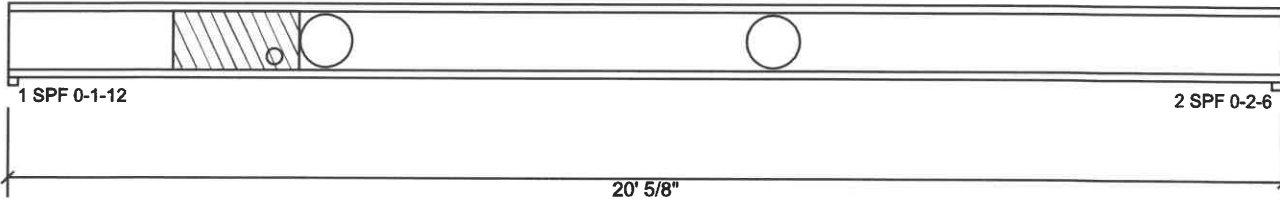
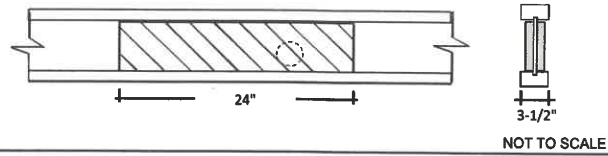
J1-D PWI 42S 14.000"

Level: 2nd Floor

Ticket: INC0032700

Repair Notes:

- 1 Remove any obstructions from the damaged area.
 - 2 Reinforce I-Joist with 2 Plies (1 on each Side) using 2' x 10-7/8" of 23/32 48/24 APA-Rated OSB Sheathing web filler. Glue with a liberal amount of construction adhesive and nail with 3 rows of 8d nails at 6" o.c.
 - 3 When drilling new hole refer to the installation guide for correct hole location based on size and shape.
- This Design is for the referenced project only and should not be used with any other project or design.



1'2"
3 1/2"

Member Information

Type:	Joist	Application:	Floor
Spacing:	16" o.c.	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IRC 2018
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	23/32 APA Rated Sturd-I-Floor OSB Nailed and Glued
Importance:	Normal - II	Ceiling:	Gypsum 1/2"
Temperature:	Temp <= 100°F	Vibration:	OK
General Load		Vibration Methodology:	CCMC - CSAO86-19
Floor Live:	40 PSF	Vibration Span:	22-0-9 (90%)
Dead:	10 PSF		

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	533	390	0	0	0
2	Vertical	536	680	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	1.750"	Vert	69%	390 / 533	923	L	D+L
2 - SPF	2.375"	Vert	87%	680 / 536	1216	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4922 ft-lb	9'11 3/8"	8390 ft-lb	59%	D+L	L
Shear	1203 lb	19'10 1/4"	1875 lb	64%	D+L	L
LL Defl inch	0.237 (L/1003)	10' 1/16"	0.496 (L/480)	48%	L	L
TL Defl inch	0.445 (L/535)	10' 1/2"	0.992 (L/240)	45%	D+L	L
LL Bare Defl	0.266 (L/894)	10' 1/16"	0.661 (L/360)	40%	L	40 PSF L

Hole Analysis

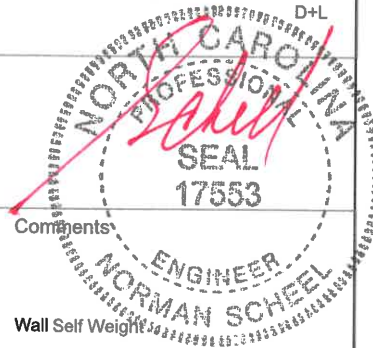
Hole Type	Location	Size	Capacity	Act Shr.	All. Shr.
Round	H4'2"	3"	49%	575 lb	1179 lb
Round	H4'11 3/4"	10"	79%	520 lb	658 lb
Round	H12' 1/4"	10"	38%	250 lb	658 lb

Horizontal location H = Horiz to center

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Applied loads over end bearings and loads exceeding 250 lbs over intermediate bearings must be transferred directly to the support by rim board, blocking, squash blocks, or other device.
- 3 Dead Load Deflection: Instant = 0.207", Long Term = 0.311".
- 4 Web Holes: Vertical location may vary and flanges must not be cut.

The signature has been electronically transmitted



ID	Load Type	Location	Trib Width	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
	Part. Uniform	0-0-0 to 3-11-4	0-8-0	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Part. Uniform	0-0-0 to 3-11-4	0-8-0	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Point	3-7-4		90 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-0							
	Part. Uniform	3-11-4 to 19-10-4	0-8-0	20 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Part. Uniform	3-11-4 to 19-10-4	0-8-0	20 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Point	9-1-4		90 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-0							

Continued on page 2...

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.
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Manufacturer Info

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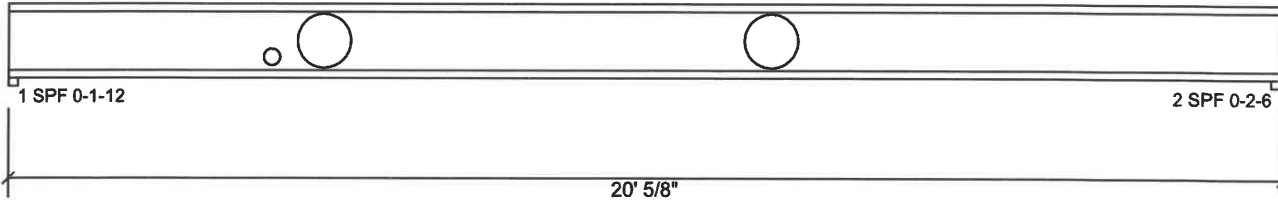
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This design is valid until 11/16/2026

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Level: 2nd Floor

Ticket: INC0032700



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ID	Load Type	Location	Trib Width	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
	Point	12-10-12		90 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-0							
	Part. Uniform	17-4-8 to 19-8-0		54 PLF	0 PLF	0 PLF	0 PLF	0 PLF	W19
	Point	17-6-4		53 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-0							
	Point	19-9-12		144 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-1-8							
	Part. Uniform	19-10-4 to 20-0-10	0-8-0	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Part. Uniform	19-10-4 to 20-0-10	0-8-0	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	

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