

Actual materials and quantities may vary due to jobsite conditions, design changes and installation variations. It is the responsibility of the Builder for this Layout to be reviewed and Approved by an appropriate Design Professional as required by the permitting authority.

ALL ROOF LOADS ASSUMED TO BE SUPPORTED AT EXTERIOR WALLS AND BEAMS BY OTHERS, IF APPLICABLE, UNLESS OTHERWISE NOTED.  
NO ROOF LOADS APPLIED TO FLOOR MEMBERS.

11 7/8" TJI  
210'S 16" O.C.  
UNLESS OTHERWISE NOTED

**RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/28/2025 9:08:07**

HANGER NAILING FOR UNIFORMLY LOADED BEAMS

Joint & Beam Hanger Fastening Requirements\* for 3 & 4 Ply Supporting Members

For IUS or THF Hangers - Use 10d (0.148") x 3" nails.

For IUS, MIU, HU, HHUS, HGUS or HD, THD, THDH Hangers - Use 16d (0.162") x 3 1/2" nails.

\*For hangers that have joint fasteners/connections, fill all holes with the manufacturer's recommended fasteners.

MULTIPLE PLY CONNECTION NAILING FOR UNIFORMLY LOADED BEAMS

**2&3 PLY BEAMS**

8 1/2" - 11 1/4" Depth

14" - 24" Depth

**NAILING CONNECTION**

(3) Rows of 10d (0.128") x 3" Box Nails at 12" o.c.

(4) Rows of 10d (0.128") x 3" Box Nails at 12" o.c.

**4 PLY BEAM**

8 1/2" - 24" Depth

**NAILING CONNECTION**

(4) Rows of 10d (0.128") x 3" Box Nails at 12" o.c.

- 16d (0.131") pneumatic nails may be substituted for 10d (0.128") Box nails.

- Stagger nails by 6" per ply

- All plies must be same material, grade, and 1 1/2" thickness.

- Joint Hanger's connecting into the side of the beam must be installed with minimum 3" long nails.

MULTIPLE PLY CONNECTION NAILING FOR POINT LOADS

Hanger shown for reference. Install screws from side opposite of hanger.

Install 1/2 the required screws on each side of hanger

1 1/2" (TYP)

4 ROWS 14" & DEEPER

3 ROWS 11 1/2" & LESS

z" (TYP)

3/4" (TYP)

	SIMPSON STRONG-TIE® HANGERS				USP HANGERS			
	U	HU	HHUS	HGUS	HD	THD	THDH	
<b>3 PLY SUPPORT BEAM</b>								
TOTAL # OF 3 3/4" TRUSSLOK® SCREWS	4	6	8	14	6	12	16	
TOTAL # OF 3 3/4" SIMPSON SDS SCREWS	4	4	6	12	6	10	12	
<b>4 PLY SUPPORT BEAM</b>								
TOTAL # OF 6 3/4" TRUSSLOK® SCREWS	4	6	10	20	8	16	20	
TOTAL # OF 6" SIMPSON SDS SCREWS	6	8	12	24	10	20	26	

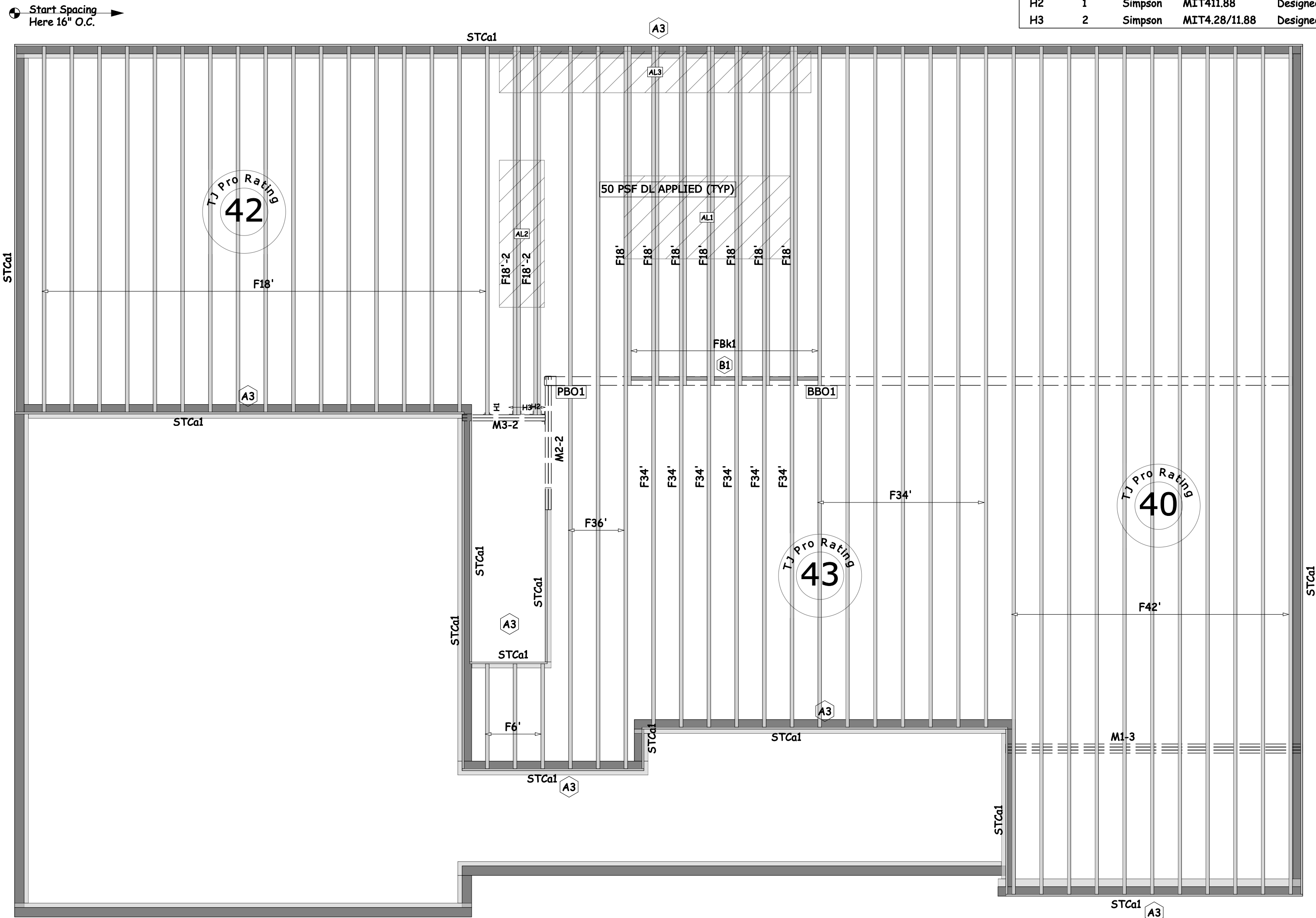
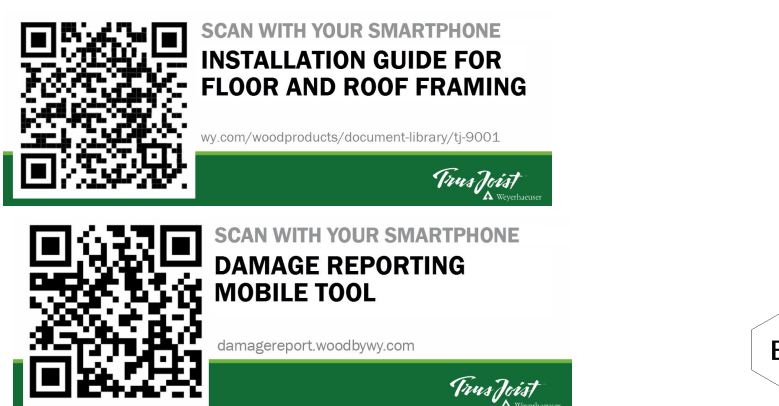
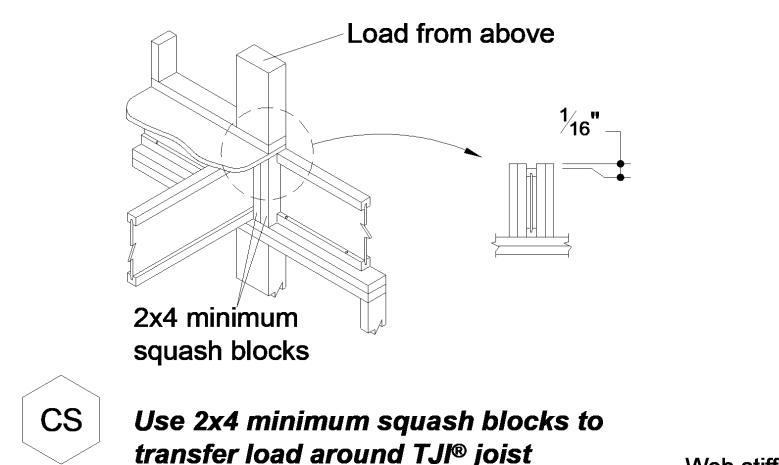
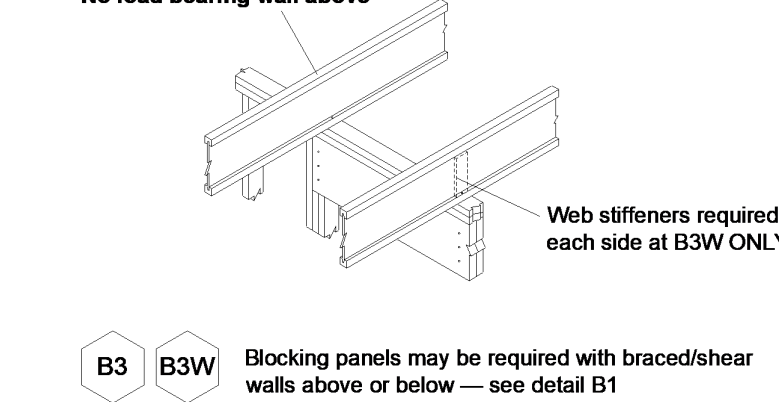
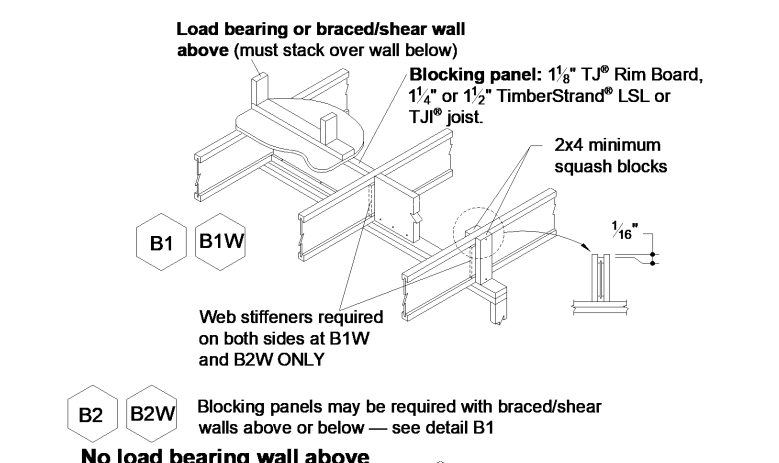
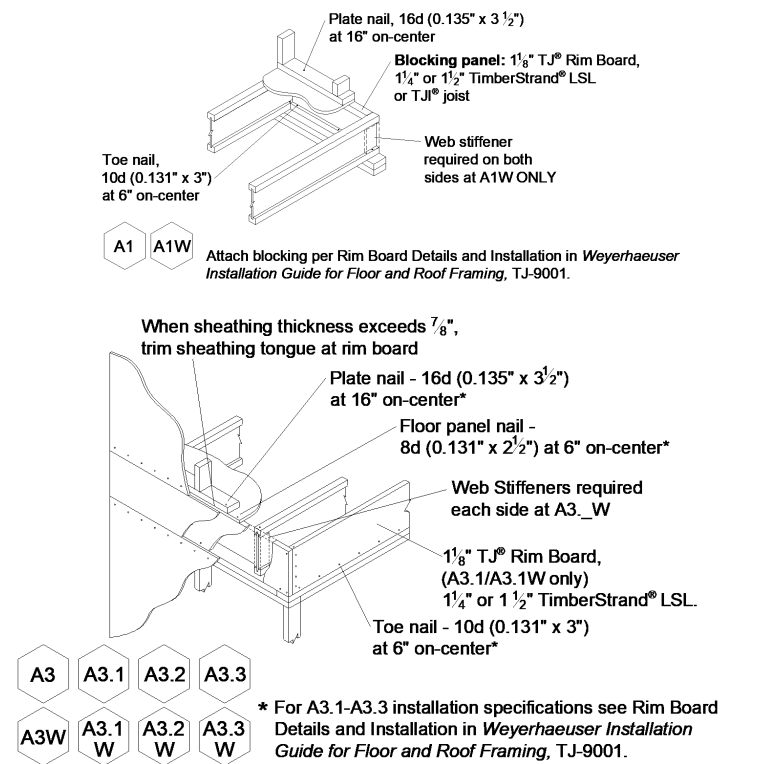
- Connections based on FastenMaster TrussLok® and Simpson Strong-Tie® code reports.

- All plies assumed to be the same material, grade, and 1 1/2" in thickness

- Connections based on given hangers maximum capacity at 100% Load Duration Factor. Adequate for 115% and 125% Load Duration Factor as well.

- Connection assumes the use of 16d nails and max nailing in hangers.

- See TB-300 for alternate connector types and loading.



Framing Connector Summary											
PlotID	Qty	Manuf	Product	Design Method	Face Nails	Top Nails	Member Nails	Skew	Slope	Backer Blks	Filler
H1	1	Simpson	ITS2.06/11.88	Designed	2- 10dx1.5	4- 10dx1.5	2- Strong-Grip	-	-	No	No
H2	1	Simpson	MIT411.88	Designed	4- 10dx1.5	4- 10dx1.5	2- 10dx1.5	-	-	No	No
H3	2	Simpson	MIT4.28/11.88	Designed	4- 10dx1.5	4- 10dx1.5	2- 10dx1.5	-	-	No	No

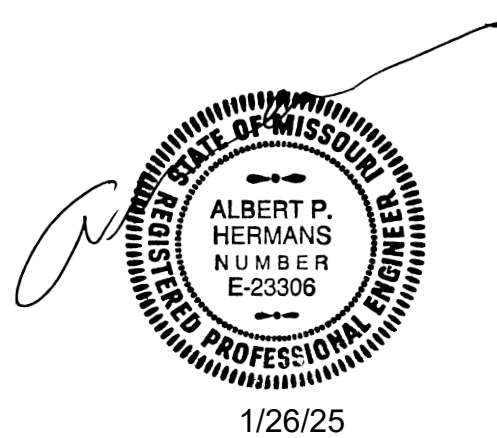
Blocking				
PlotID	Length	Product	Plies	Net Qty
FBk1	1' 0"	11 7/8" TJI 210 joist	1	7

Accessories				
PlotID	Length	Product	Plies	Net Qty
		23/32"x48"x96" Weyerhaeuser Edge Panel (0/24) T&G FF	1	58

Total Lengths	
Length	Product
1541' 0"	11 7/8" TJI 210 joist
72' 0"	1 3/4" x 11 7/8" 2.0E Microllam LVL
294' 0"	1 1/2" x 5 1/2" 1.3E StrandGuard TimberStrand LSL
240' 0"	1 1/8" x 11 7/8" TJ Rim Board

Products				
PlotID	Length	Product	Plies	Net Qty
F42'	42' 0"	11 7/8" TJI 210 joist	1	11
F36'	36' 0"	11 7/8" TJI 210 joist	1	3
F34'	34' 0"	11 7/8" TJI 210 joist	1	13
F18'-2	18' 0"	11 7/8" TJI 210 joist	2	4
F18'	18' 0"	11 7/8" TJI 210 joist	1	24
F6'	6' 0"	11 7/8" TJI 210 joist	1	3
M1-3	16' 0"	1 3/4" x 11 7/8" 2.0E Microllam LVL	3	3
M2-2	8' 0"	1 3/4" x 11 7/8" 2.0E Microllam LVL	2	2
M3-2	4' 0"	1 3/4" x 11 7/8" 2.0E Microllam LVL	2	2
STCa1	16' 0"	1 1/8" x 11 7/8" TJ Rim Board	1	15

LEVEL NOTES	
Current Date:	9/10/2024
File Name:	FPS24-0926_1408 NE Ernest Way_Mead Grandview.jvl
Level Name:	Foundation
Building Code - Design Methodology:	TBC 2018
Members with Design Overridden:	
TJ-Pro Rating (Weighted Average):	41
Minimum Level TJ - Pro Rating & Joist:	TJ-Pro rating = 38, joist = F18' (689)
Maximum Level TJ - Pro Rating & Joist:	TJ-Pro rating = 51, joist = F18'-2(685)
FLOOR	
Floor Container:	FC1
Use/Occupancy:	Residential/Living Areas
Floor Area Loading is:	40.0 lb/ft² Live Load & 15.0 lb/ft² Dead Load
	Operator Added Additional Loads
Maximum Allowed Deflection:	L/480 Live Load & L/240 Total Load
TJ-Pro Rating Information:	
Weighted Average:	41
Directly Applied Ceiling:	None
Decking Attachment:	Glue and Nail
Decking Material:	23/32"x48"x96" Weyerhaeuser Edge Panel (0/24) T&G FF
Perpendicular Partition:	No
Strapping at max 8' o.c.:	None
Blocking at max 8' o.c.:	No
Poured Flooring:	No



**WARNING**  
Joists are unstable until braced laterally

**Bracing Includes:**

- Blocking
- Sheathing
- Rim Board
- Sheathing
- Rim Joist

**DO NOT walk on joists until braced. INJURY MAY RESULT.**

**DO NOT walk on joists that are lying flat.**

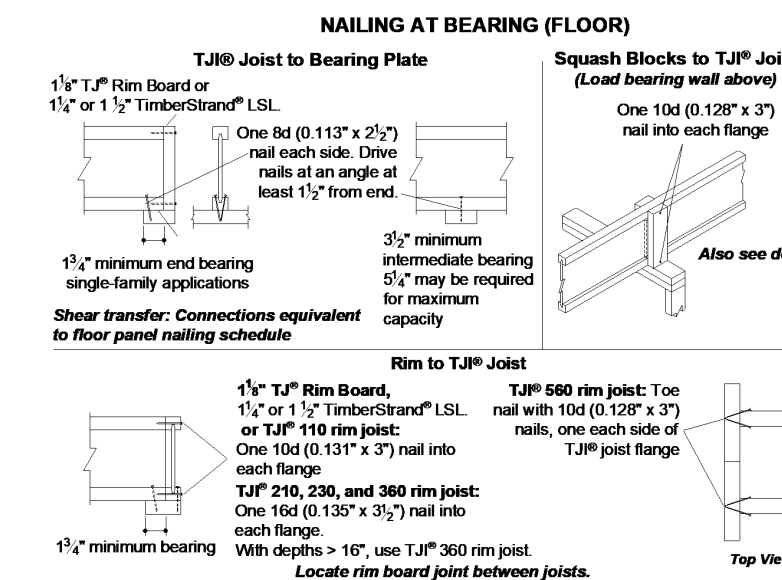
**DO NOT stack building materials on unsheathed joists. Stack only over beams or walls.**

**WARNING NOTES:**

Lack of proper bracing during construction can result in serious accidents. Observe the following guidelines:

- All blocking, hangers, rim boards and rim joists at the end supports of the TJI® joists must be completely installed and properly nailed.
- Lateral strength, like braced end wall or an existing deck, must be established at the ends of the bay. This can also be accomplished by a temporary or permanent deck (sheathing) fastened to the first 4 feet of joists at the end of the bay.
- Safety bracing of 1x4 (minimum) must be nailed to a braced end wall or sheathed area (see in note 2) and to each joist. Without this bracing, buckling sideways or rollover is highly probable under light construction loads - such as a worker or one layer of unnailed sheathing.
- Sheathing must be completely attached to each TJI® joist before additional loads can be placed on the system.
- Ends of cantilevers require safety bracing on both the top and bottom flanges.
- The flanges must remain straight within 1/2" from true alignment.

▲ Weyerhaeuser, Microllam, Parallam, TimberStrand, TJI, TJ, and Trus Joist are registered trademarks of Weyerhaeuser NR. © 2014 Weyerhaeuser NR Company. All rights reserved.



This layout is intended for product application assurance and is not intended to circumvent the need for a design professional as determined by the Building Codes. The designer of record and/ or builder/ framer is responsible to assure these drawings are compatible with the overall project.

ENGINEERED WOOD PRODUCTS

Weyerhaeuser

MEAD GRANDVIEW

1408 NE ERNEST WAY

SIDNEY ADAMSON

STRUCTURAL DATE:

ARCHITECTURAL DATE:

SCALE 1/4"=1'-0"

PROJECT #: FPS 24-0926

9/10/2024

SHEET 10 OF 1