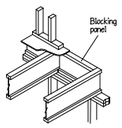
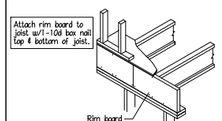
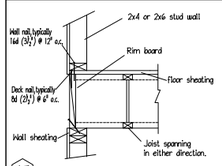


A1



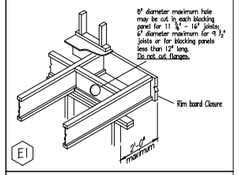
A3 Must have 1¾" minimum joist bearing at ends

For information on lateral load capacities refer to literature or local dealership.

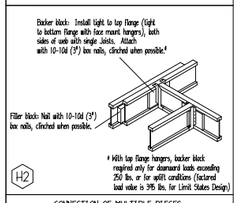


A7

LOAD BEARING CANTILEVER



E1



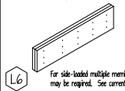
* With top flange hangers, backer block required only for downward loads exceeding 250 lbs. or for split conditions (factored load value is 395 lbs. for Limit States Design)

H2

CONNECTION OF MULTIPLE PIECES OF TOP-LOADED BEAMS

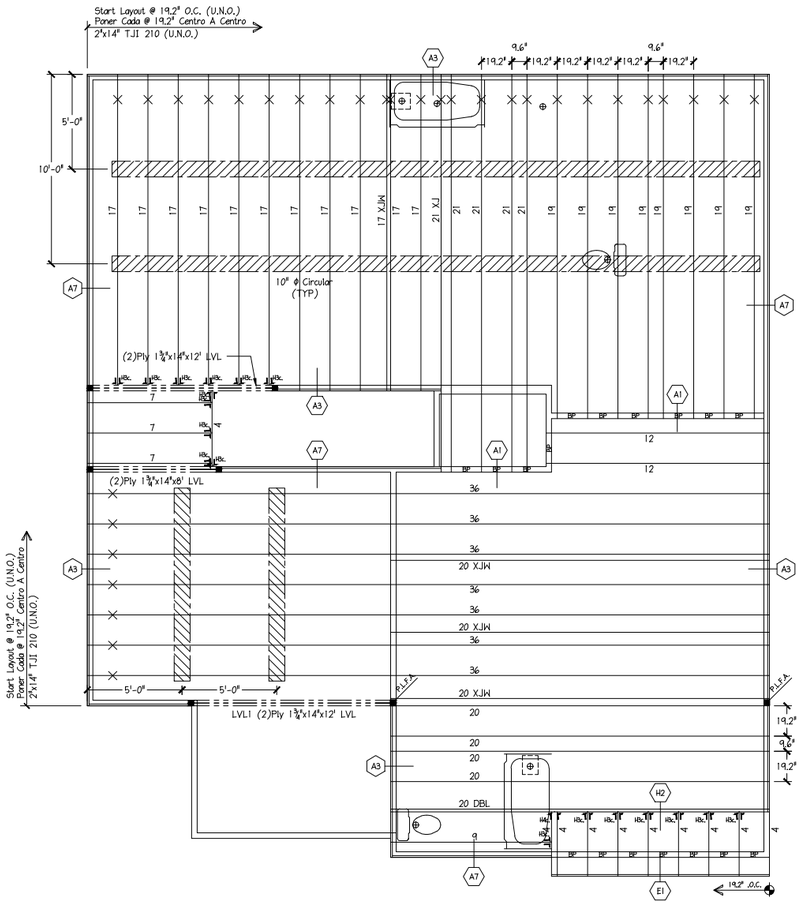
LVL & PSL (1¾" Width Pieces)

- Minimum of 2 rows 16d (3½") nails at 12" o.c.
- Minimum of 3 rows 16d (3½") nails at 12" o.c. for 14", 16", 18" beams.
- Multiple pieces of LVL & PSL can be nailed or bolted together to form a header or beam of the required size, up to a maximum with of 7 inches. Minimum of 2 rows ½" bolts at 24" o.c. staggered.



For side-loaded multiple member beams, additional nailing or bolting may be required. See current Joist literature.

L6



2ND FLOOR I-JOIST PLACEMENT PLAN

MATTAMY HOMES - REDWOOD

ENGINEERED WOOD MATERIAL LIST

MATTAMY HOMES

REDWOOD

2ND FLOOR I-JOIST PLACEMENT PLAN

MARK	QTY	CUT LENGTH	DESCRIPTION (Holes)
4	10	4'-0"	2" x 14" TJI 210
7	3	7'-0"	2" x 14" TJI 210
9	1	9'-0"	2" x 14" TJI 210
12	2	12'-0"	2" x 14" TJI 210
17a	12	17'-0"	2" x 14" TJI 210 (2)
19a	8	19'-0"	2" x 14" TJI 210 (2)
20	9	20'-0"	2" x 14" TJI 210
21a	5	21'-0"	2" x 14" TJI 210 (2)
36a	7	36'-0"	2" x 14" TJI 210 (2) (Total 987')

BEAMS AND HEADERS

LVL	2	12'-0"	1¾" x 14" LVL 2.0E (Flush)
LVL	2	8'-0"	1¾" x 14" LVL 2.0E (Flush)
LVL1	2	12'-0"	1¾" x 14" LVL 2.0E (Flush)

ACCESSORIES & OTHER MATERIALS (Simpson Hangers)

ITEM	QTY	UNIT	DESCRIPTION
14" Rim	162	LF	1⅞"x14" TJ Rim 14 pcs@12' or 11 pcs@16'
BP	17	1'-5 1/8"	14" Blocking Panel (Total 34')
H4c	1	PCS	MIU4.28/14 Double Face Mnt Hanger
H3c	18	PCS	IU52.06/14 Single Face Mnt Hanger
10CUT14C	64	HOLE	10" Circular Cutout
TJLAYOUT	1	PCS	TJI Placement Layout
TJGUIDE	1	PCS	TJI Installation Guide

SEE MATERIAL LIST FOR DEPTH, SERIES & LENGTH

3G	INDICATES I-JOIST
TSH	INDICATES TIMBERSTRAND HDR, LSL
P.S.L.	INDICATES PICORI-LAM, LVL
P.S.L.	INDICATES PARALLAM, PSL
GLU	INDICATES GLUE-LAM
(B)	INDICATES A SECTION FROM THE INSTALLATION GUIDE DETAIL IS ALSO SHOWN ON THIS SHEET
L.B.W.A.	LOAD BEARING WALL ABOVE
B.B.O.	BEAM BY OTHERS
EXTRA	EXTRA JOIST ADDED
U.N.	EXTRA JOIST (1) UNDER WALL
DBL.	DOUBLE JOIST (2)
TRPL	TRIPLE JOIST (3)
B.P.	I-JOIST BLOCKING PANEL
O.S.B.	7/16" O.S.B. SHEATHING BOARD
P.L.F.A.	CONCENTRATED POINT LOAD FROM ABOVE
DROP BEAM	
FLUSH BEAM	

THIS SHOP DRAWING IS BASED ON THE FOLLOWING

PROJECT LOCATION :
PROJECT NUMBER :
ARCH DWGS DATE :
ARCHITECT DWGS BY :
ARCH LATEST REVISION :
DATE :
CHECKED BY :
STRUCTURAL REVIEW BY :

REV	BY	DATE / DESC.
SD	JDS	10/29/21

DESIGN DATA

LIVE 40 PSF
DEAD 10 PSF
TOTAL LOAD = 50 PSF

STRESS DURATION = 100%
DEFLECTION CRITERIA : (L/480)

Builders FirstSource
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Ph (403) 568-1888
Fx (403) 568-1889
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SEE CONSTRUCTION SPECIFICATIONS AND GUIDE BEFORE INSTALLING (GUIDELINES APPROPRIATE ACCEPTABLE FOR MOST CONDITIONS)
DO NOT CUT, NOTCH OR DRILL TRUSSES WITHOUT ENGINEERING APPROVAL
DO NOT ALTER BRACING DESIGNED FOR STABILITY
BRACING MUST BE INSTALLED AS SPECIFIED
BUILDER TO VERIFY LOCATION OF PLUMBING DROPS AND DUCT JOISTS
CONSTRUCTION LOADS SHOULD BE DISTRIBUTED OVER SEVERAL TRUSSES
CANTILEVERS MUST NOT BE MODIFIED OR USED FOR SUPPORT OF ADDITIONAL LOADS
ANY CEILING, WALL OR FLOOR FINISH APPLIED PRIOR TO FINAL INSPECTION IS AT BUILDER'S RISK
TO ATTACH DECK LEDGER, USE FASTENERS SPACED PER MANUFACTURERS' RECOMMENDATION

I-Joists	
12EC14500	= 12TJI110
12EC15000	= 12TJI210
14EC14500	= 14TJI110
14EC15000	= 14TJI210
14EC16000	= 14TJI230
16EC15000	= 16TJI210
16EC160	= 16TJI360

POINT LOAD FROM ABOVE (P.L.F.A.)

P.L.F.A. — USE SOLID BLOCKING TO TRANSFER LOAD FROM ABOVE TO FOUNDATION

DO NOT CUT ORANGE END
NO CORTE EL COLOR NARANJA

"X" INDICATES ORANGE END
"X" INDICAR EL COLOR NARANJA

SCALE: 1/4" = 1'-0" (0 — 5' — 10')

BUILDER: MATTAMY HOMES
MODEL: REDWOOD

2ND FLOOR I-JOIST PLACEMENT PLAN

TIME: MONDAY, 6 DECEMBER 2021 - 8:01 PM
FILE: I:\APEX\TJI\ACADDWG\MATTAMY HOMES\REDWOOD.DWG

DRAWN BY: NJH DATE: 12/6/21

SHEET: 1 OF 1 SHEETS