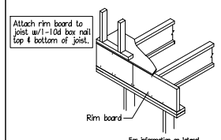
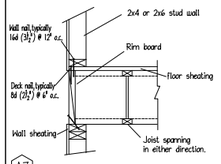
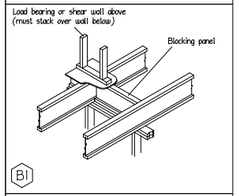


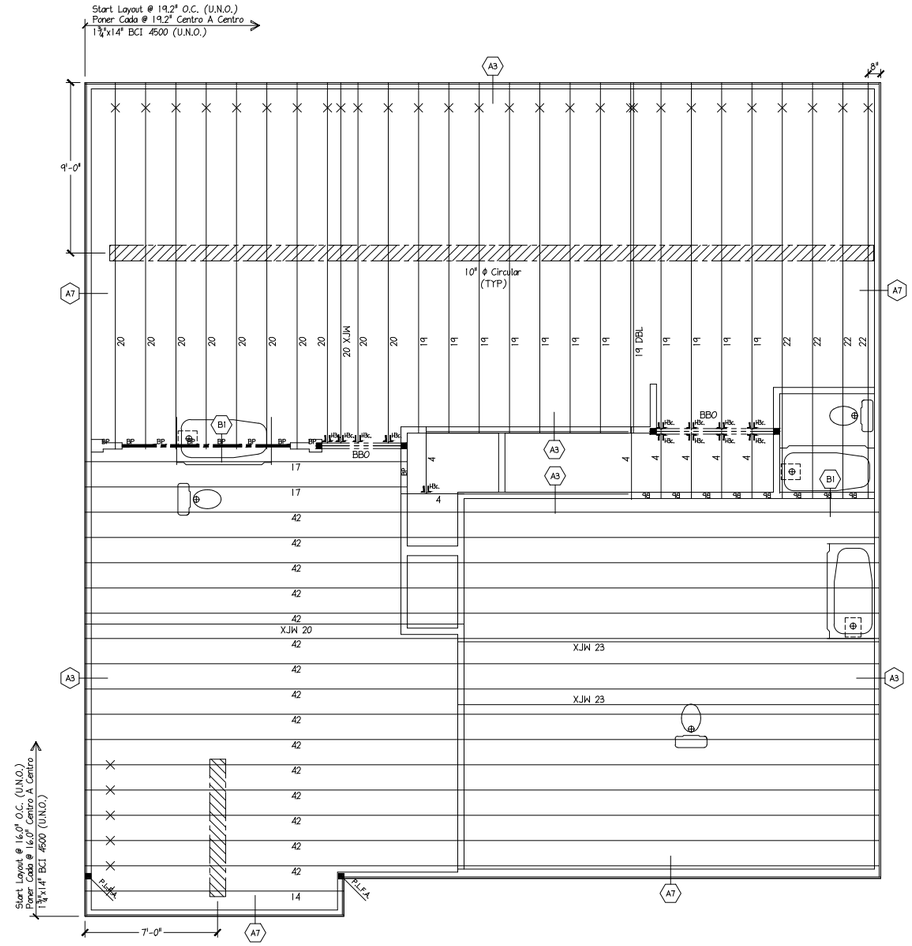




CONNECTION OF MULTIPLE PIECES OF TOP-LOADED BEAMS

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.



2ND FLOOR I-JOIST PLACEMENT PLAN
DR HORTON - COLUMBIA

ENGINEERED WOOD MATERIAL LIST

DR HORTON
COLUMBIA
2ND FLOOR I-JOIST PLACEMENT PLAN

BASE - ALL ELEVATIONS

MARK	QTY	CUT LENGTH	DESCRIPTION (Holes)
4	7	4'-0"	1¾" x 14" BCI 4500
14a	1	14'-0"	1¾" x 14" BCI 4500 (1)
17	2	17'-0"	1¾" x 14" BCI 4500
19a	13	19'-0"	1¾" x 14" BCI 4500 (1)
20a	1	20'-0"	1¾" x 14" BCI 4500
20b	11	20'-0"	1¾" x 14" BCI 4500 (1)
22a	4	22'-0"	1¾" x 14" BCI 4500 (1)
23	2	23'-0"	1¾" x 14" BCI 4500
42a	10	42'-0"	1¾" x 14" BCI 4500
42b	5	42'-0"	1¾" x 14" BCI 4500 (1) (Total 1327')

ACCESSORIES & OTHER MATERIALS (Simpson Hangers)

ITEM	QTY	UNIT	DESCRIPTION
14" Rim	192	LF	1"x14" Rim 16 pcs@12' or 12 pcs@16'
BP	1	1'-2 1/4"	14" Blocking Panel
BP	16	1'-5 3/8"	14" Blocking Panel (Total 34')
H8c	13	PCS	IUS1.81/14 Single Face Mnt Hanger
10CUT14C	34	HOLE	10" Circular Cutout
BCGUIDE	1	PCS	BCI Installation Guide
BCLAYOUT	1	PCS	BCI Placement Layout

SEE MATERIAL LIST FOR DEPTH, SERIES & LENGTH

30 ———	INDICATES I-JOIST
T16 ———	INDICATES TIMBERSTRAND HDR, LSL
P16 ———	INDICATES PEOR+LAM, LVL
P1 ———	INDICATES PARALLAM, PSL
G ———	INDICATES GLUE-LAM
(B1)	INDICATES A SECTION FROM THE INSTALLATION GUIDE DETAIL IS ALSO SHOWN ON THIS SHEET
L.B.H.A.	LOAD BEARING WALL ABOVE
B.O.O.	BEAM BY OTHERS
EXTRA	EXTRA JOIST ADDED
X.J.W.	EXTRA JOIST (1) UNDER WALL
DBL	DOUBLE JOIST (2)
TRPL	TRIPLE JOIST (3)
B.P.	I-JOIST BLOCKING PANEL
R.IM	RIM BOARD OR I-JOIST RIM 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 :
ARCH LATEST REVISION :
CHECKED BY :
STRUCTURAL REVIEW BY :
DATE :

REV	BY	DATE / DESC.
SD	SE	11/28/19

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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GENERAL NOTES
1. THESE SHOP DRAWINGS ARE PREPARED FROM INFORMATION FURNISHED BY THE BUILDER. IT IS THE RESPONSIBILITY OF THE BUILDER TO VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE ORDERING MATERIAL. (EXCEPTIONS APPEAR ON LATEST REVISION)
2. THESE DRAWINGS ARE PREPARED FOR THE USE OF THE BUILDER AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE. ALPINE ENGINEERED PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS ON THESE DRAWINGS AFTER THEY HAVE BEEN USED FOR CONSTRUCTION.
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4. BUILDER TO VERIFY ALL FLOOR OPENINGS AND ADVISE ALPINE ENGINEERED PRODUCTS, INC. (AEP) OF ANY CHANGES TO THE LOCATION OF FLOOR OPENINGS SHOWN AND NOT LISTED.
5. BUILDER TO VERIFY ALL CANTILEVERS AND ADVISE ALPINE ENGINEERED PRODUCTS, INC. (AEP) OF ANY CHANGES TO THE LOCATION OF CANTILEVERS SHOWN AND NOT LISTED.
6. BUILDER TO VERIFY ALL BEARING WALLS AND ADVISE ALPINE ENGINEERED PRODUCTS, INC. (AEP) OF ANY CHANGES TO THE LOCATION OF BEARING WALLS SHOWN AND NOT LISTED.
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I-Joists

12BCI4500 = 12TJI110
12BCI5000 = 12TJI210
14BCI4500 = 14TJI110
14BCI5000 = 14TJI210
14BCI6000 = 14TJI230
16BCI5000 = 16TJI210
16BCI60 = 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: DR HORTON
MODEL: COLUMBIA
2ND FLOOR I-JOIST PLACEMENT PLAN
TIME: THURSDAY, 25 JANUARY 2024 - 9:48 AM
FILE: I:\APEXTJI\ACADDWG\DR HORTON\COLUMBIA.DNG

DRAWN BY: NJH DATE: 9/16/19

SHEET: 2 OF 2 SHEETS