

I-JOIST INSTALLATION INFORMATION

ATTENTION BUILDER
Enclosed is **IMPORTANT** information on how to safely and properly install RedBuilt™ Joists. Personal injury or death may result from failure to read and follow this information.



1 PRODUCT HANDLING

THIS

Lift joists from underside only. DO NOT dump or drop from truck.

NOT THIS

DO NOT lift joists by top flange

DO NOT lift joists in the flat orientation

2 PRODUCT STORAGE

THIS

Store and handle joists in vertical orientation. Leave joists banded together until ready to install.

CAUTION
Wrap is slippery when wet or icy.

- Protect products from sun and water.
- Use support blocks at 10' on-center to keep products out of mud and water.

NOT THIS

DO NOT store joists in the flat orientation

3 GENERAL INFORMATION

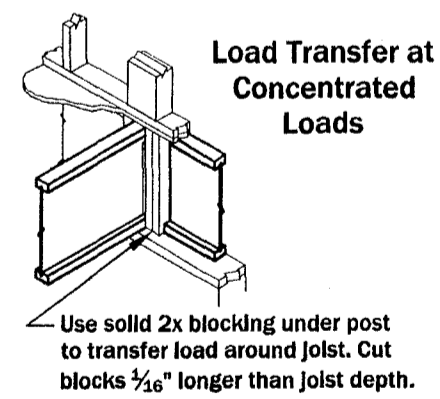
- All nails specified in framing package to be "common" nails unless noted otherwise.
- All joists not marked "Precision End Trim" (PET) on the material list may be sent up to 2'-0" longer than the length indicated on the material list.
- Do not scale drawings: written dimensions take precedence.
- Manufacturer's responsibility is only for the design of the RedBuilt™ products and not for any supporting structure or loads other than indicated herein. All materials shall be supplied by others, unless specifically noted as "by RB" or "by RedBuilt™" herein.

Abbreviation	Term
AFP	Approved for Production
AOR	Architect of Record
CL	Centerline
DBL	Double
DL	Dead Load
EOR	Engineer of Record
FBO	Framing by Others
FOC	Face of Concrete
FS	Face of Stud
GC	General Contractor
LL	Live Load
LSL	Laminated Strand Lumber
LVL	Laminated Veneer Lumber
OFA	Out for Approval
OW	Open-Web Trusses by RedBuilt™
PLT	Plate
PSL	Parallel Stranded Lumber
RB	RedBuilt™

4 WEB STIFFENER REQUIREMENTS

Web Stiffener Size and Material

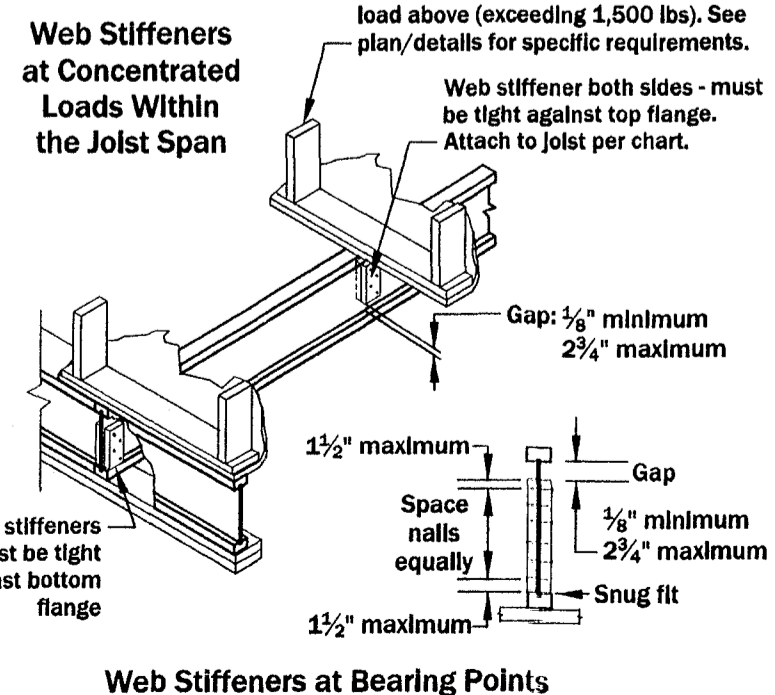
Flange Width	Web Stiffener Size	Web Stiffener Material
13/4"	5/8"x2 3/16"	Sheathing (with face grain vertical) that meets the requirements of PS1 or PS2
2 1/2"	1"x2 3/16"	Construction grade or better
3 1/2"	2x4	



- Web stiffener requirements vary based on joist series and depth; they are always required at bearing on joists 20" in depth or greater.
- See plan/details for requirements specific to the joists being used on this project.
- If web stiffeners are required at hanger locations, they must be attached before placing joist in hanger.

Nailing Quantities for Web Stiffener Attachment

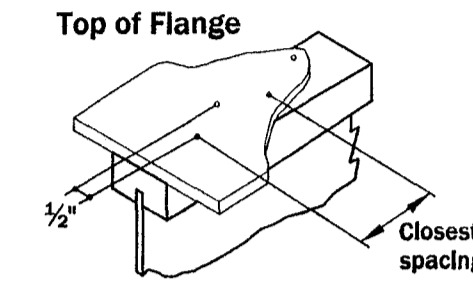
Joist Depth	Red-445™ Joists		Red-465™ Joists		Red-490™ & Red-490H™ Joists		Red-490HS™ Joists	
	8d (2 1/2") Nails	End or Intermediate	8d (2 1/2") Nails	End or Intermediate	16d (3 1/2") Nails	End	16d (3 1/2") Nails	End or Intermediate
9 1/2"	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11 1/4"	3	3	3	3	3	3	3	4
14"	3	5	3	3	3	3	3	6
16"	3	6	4	4	4	4	4	6
18"	3	7	4	4	4	4	4	8
20"	3	8	5	5	5	5	5	10
22"	N/A	9	6	11	10	10	10	10
24"	N/A	10	6	13	12	12	12	12
26"	N/A	11	7	14	14	14	14	14
28"	N/A	12	8	15	14	14	14	14
30"	N/A	13	8	17	16	16	16	16
32"	N/A	N/A	9	18	18	18	18	18



5 FLANGE AND BEAM NAILING

Nailing pattern to be per contract drawings and specifications. In addition, nail spacing shall comply with the criteria listed.

IMPORTANT
Nailing closer than specified may cause the flange to split.



Nailing of sheathing

Nail Type	Nail Size	Closest On-Center Spacing Per Row ⁽¹⁾		
		I-Joist Flange ⁽²⁾	LSL, LVL, and PSL ⁽³⁾	
8d ⁽⁴⁾	.113" x 2 1/2"	2"	3"	
	.131" x 2 1/2"	2"	3"	
10d	.128" x 3"	2"	3"	
	.148" x 3"	3"	4"	
12d	.128" x 3 1/2"	2"	3"	
	.148" x 3 1/2"	3"	4"	
	.135" x 3 1/2"	3"	4"	
	.148" x 3 1/2"	3"	4"	
16d	.162" x 3 1/2"	4"	4"	
			6" (8" @ LVL)	

- If more than one row of nails is used, the rows must be offset at least 1/2" and staggered.
- Sheathing must be nailed to the full length of the top (or compression) flange on the I-joist with the maximum nail spacing as follows:
 - 18" OC for I-joists with flange widths less than 2".
 - 24" OC for I-joists with flange widths greater than 2".
- For nails installed on narrow face.
- 1.4-gauge staples may be a direct substitute for 8d (2 1/2") nails if a minimum penetration of 1" into the flange is maintained.

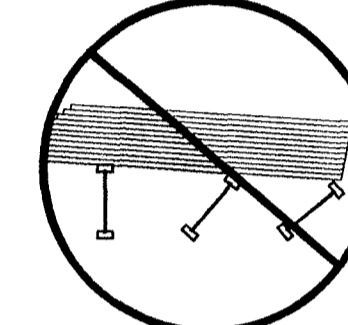
6 INSTALLATION BRACING



DO NOT walk on the joists until all joist bearings and bracing have been permanently attached. Injury may result.

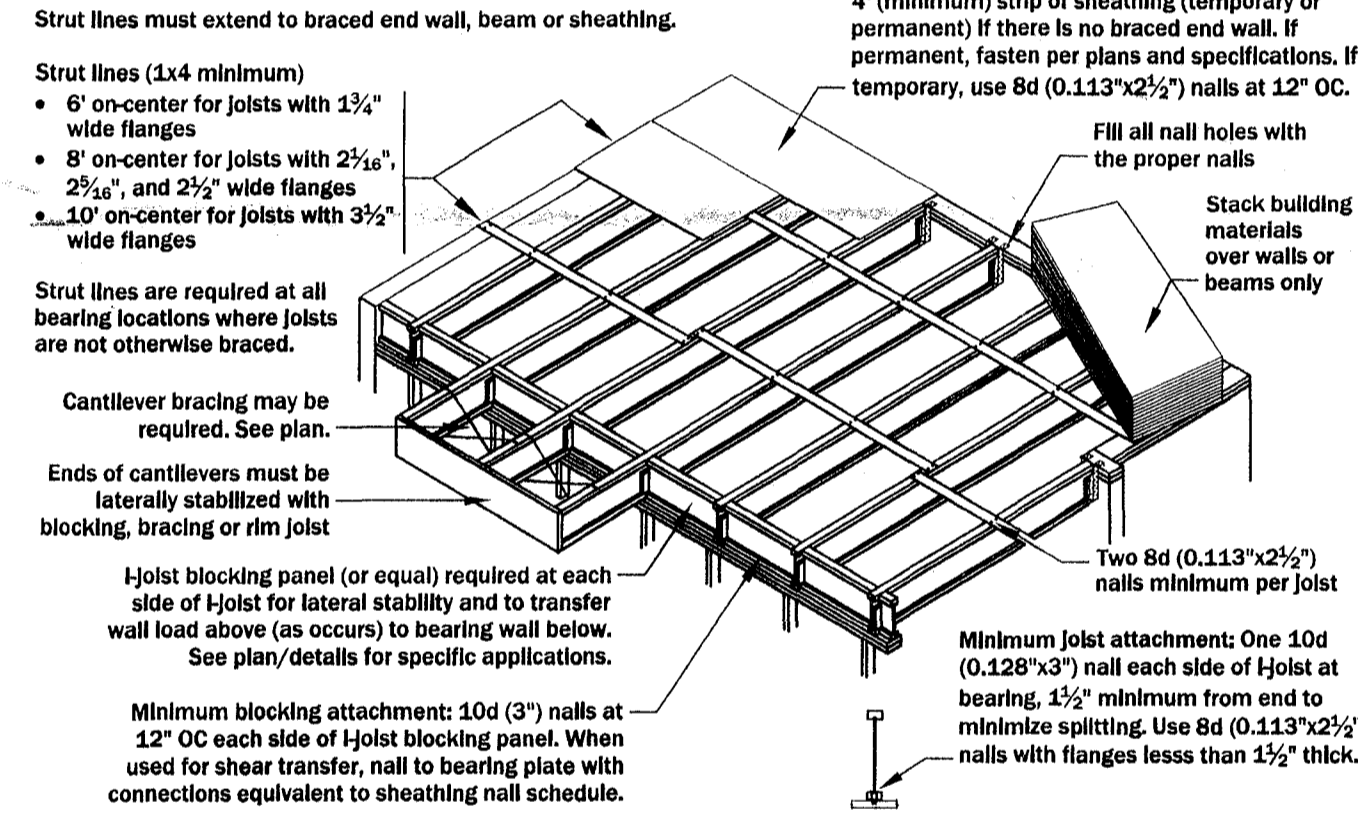
WARNING
Without correctly installed bracing, joists can buckle sideways or roll over, causing death, serious personal injury, or property damage.

NOTICE
Installation bracing and procedures, as well as the safety of workers, are the responsibility of the installer. The installer should make sure that this installation information is understood by all persons involved in the joist installation.



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

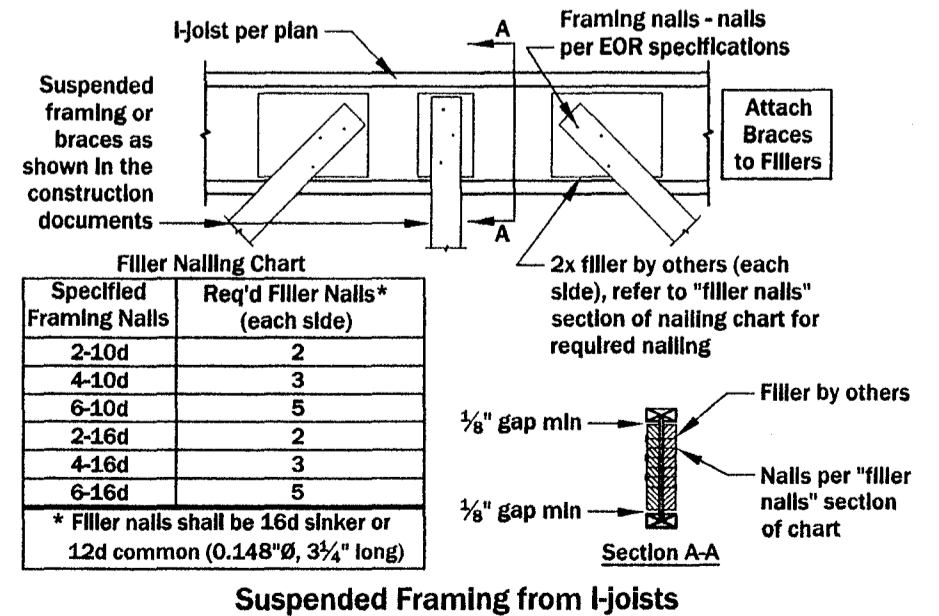
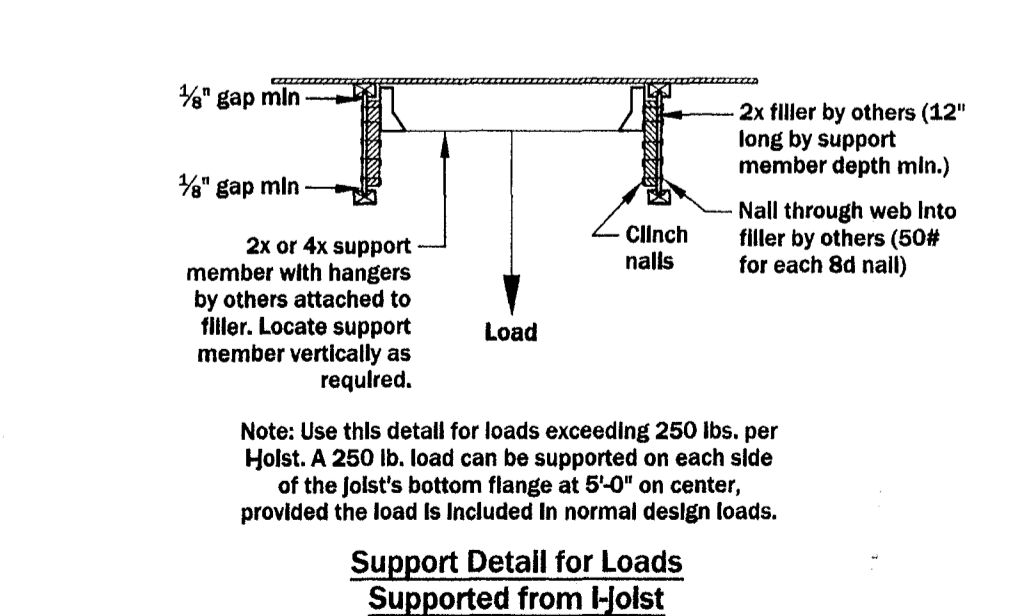
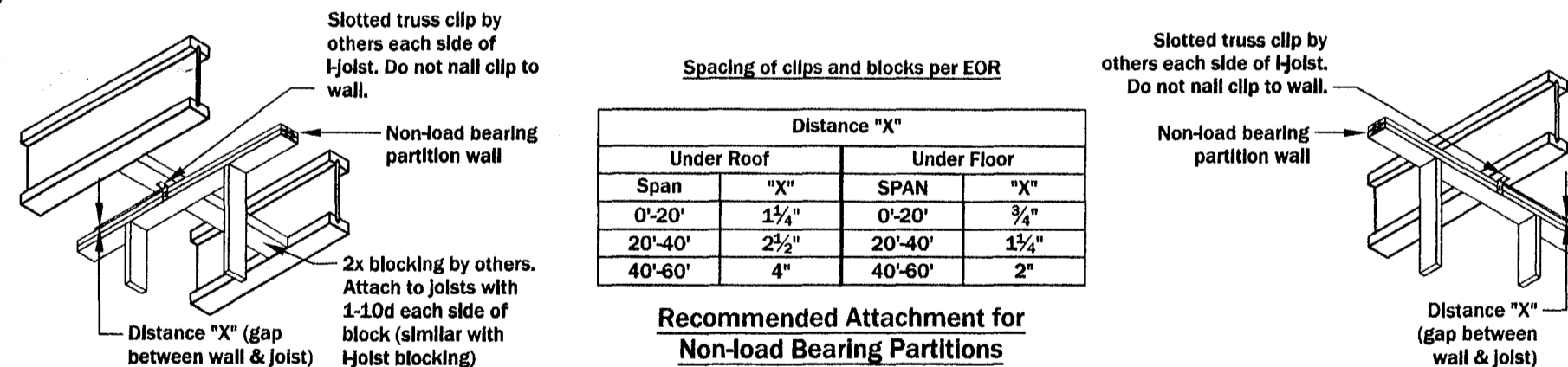
IMPORTANT



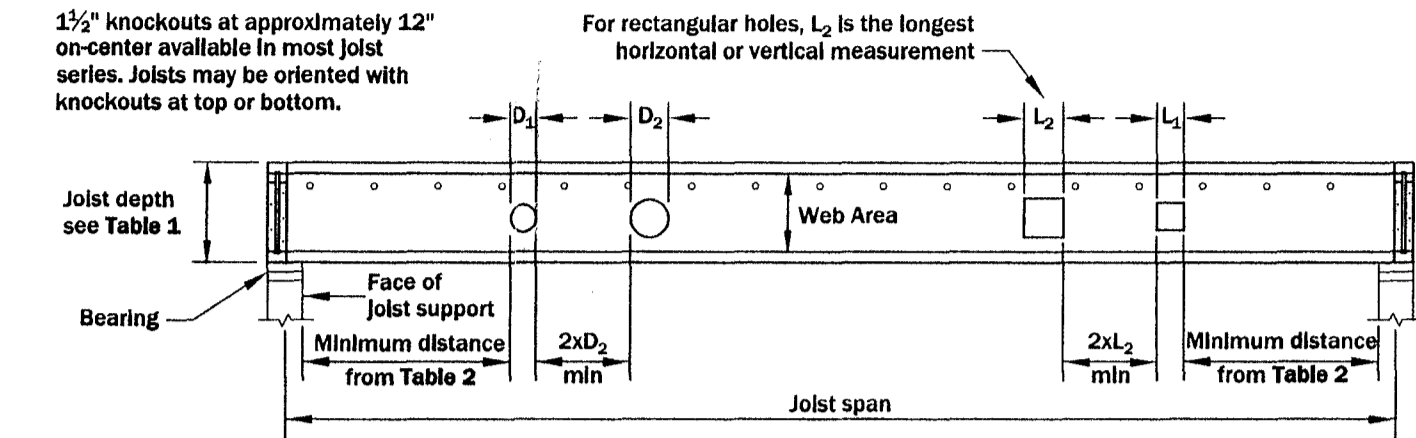
WARNING

- All blocking, hangers, rim boards, and rim joists at the end supports of the I-joists must be completely installed and properly nailed.
- I-joist flanges must remain straight within 1/2" from true alignment.
- Sheathing must be completely attached to each I-joist before additional loads can be placed on the system.
- Without bracing, buckling sideways or rollover is highly probable under light construction loads like a worker or stacked sheathing.

7 STANDARD INSTALLATION DETAILS



8 ALLOWABLE HOLES



How to determine hole location

- Determine the joist depth and desired hole size and find hole factor (letter) or hole location (distance) in Table 1. If the table reports a hole factor, proceed to step 2.
- Refer to Table 2. The dimension shown where the joist span row and hole factor column from Table 1 intersect is the required minimum distance from nearest edge of hole to inside face of support.

General Notes

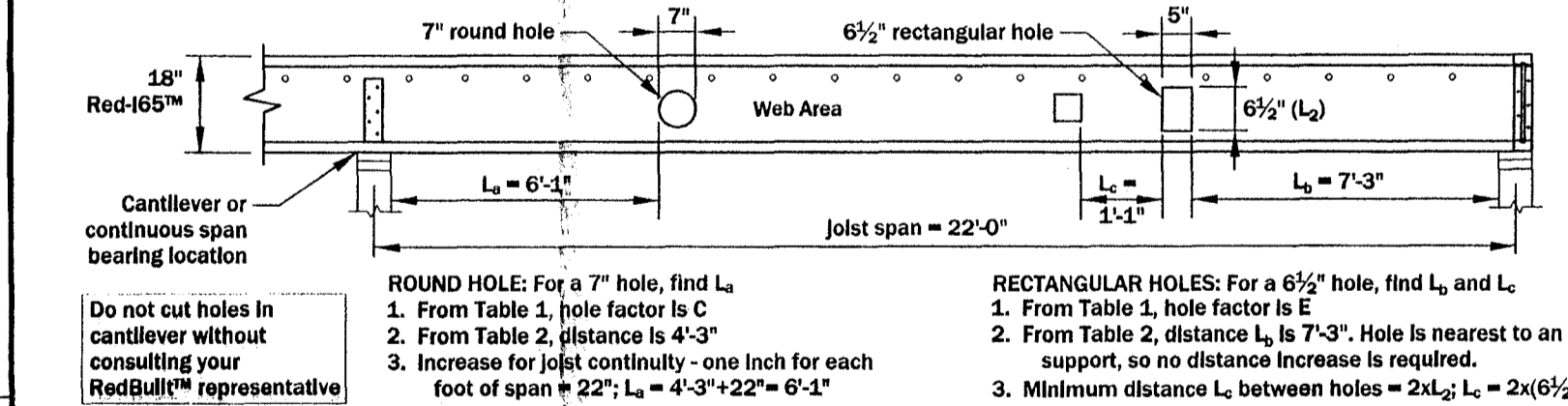
- Tables are based on:
 - Simple spans.
 - More restrictive of either uniform loads or code-required concentrated loads (2000 lbs over 2 1/2 feet square and over two joists) with 25 psf dead and 20 psf partition load.
- The sizes given in the table are hole sizes, not duct sizes. Rectangular hole sizes are based on measurement of the longest side.
- Multiple holes require spacing 2 times the length of the largest hole.
- For joists continuous over a support, add 1" to distance shown in table for each foot of joist span (see Example below).
- Holes may be located vertically anywhere in the web. Leave 1/2" of web (minimum) at top and bottom of hole. Do not cut holes in cantilever area without consulting your RedBuilt™ representative.

Round Hole Size	Rectangular Hole Size	Joist Depth										
		11 7/8"	14"	16"	18"	20"	22"	24"	26"	28"	30" or 32"	
2"	1 1/4"	A	A	A	4"	4"	4"	4"	4"	4"	4"	4"
3"	1 3/4"	A	A	A	1'-3"	1'-3"	1'-3"	4"	4"	4"	4"	4"
4"	2 1/4"	B	B	A	A	A	1'-3"	1'-3"	1'-3"	1'-3"	4"	4"
5"	3"	C	C	B	A	A	A	A	1'-3"	1'-3"	4"	4"
6"	3 1/2"	E	C	C	B	B	A	A	A	1'-3"	4"	4"
7"	4"	D	C	C	B	B	A	A	A	A	4"	4"
8"	4 1/2"	E	D	C	C	B	B	B	A	A	4"	4"
9"	5 1/4"		E	D	C	C	B	B	B	A	4"	4"
10"	6"		E	E	D	C	C	B	B	B	4"	4"
11"	6 1/2"		E	D	D	C	C	B	B	B	4"	4"
12"	7"			E	D	D	C	C	C	B	4"	4"
13"	7 1/4"			E	E	D	D	C	C	C	4"	4"
14"	8 1/4"			E	E	D	D	D	C	C	4"	4"
15"	9"				E	D	D	D	C	C	4"	4"
16"	9 1/2"				E	E	D	D	D	C	4"	4"
17"	10"					E	E	D	D	C	4"	4"
18"	10 1/4"						E	E	D	C	4"	4"
19"	11 1/4"							E	E	C	4"	4"
20"	12"								E	C	4"	4"

Joist Span	Hole Factor				
	A	B	C	D	E
14'	1'-3"	2'-0"	2'-6"	3'-9"	5'-0"
15'	1'-3"	2'-0"	3'-0"	4'-0"	5'-3"
16'	1'-3"	2'-3"	3'-3"	4'-6"	5'-9"
17'	1'-6"	2'-9"	3'-9"	5'-0"	6'-3"
18'	1'-6"	3'-0"	4'-3"	5'-6"	6'-9"
19'	1'-9"	3'-0"	4'-3"	5'-6"	7'-0"
20'	1'-9"	3'-0"	4'-3"	5'-6"	7'-0"
21'	2'-0"	3'-0"	4'-3"	5'-9"	7'-3"
22'	2'-0"	3'-0"	4'-3"	5'-9"	7'-3"
23'	2'-0"	3'-3"	4'-3"	5'-9"	7'-6"
24'	2'-3"	3'-3"	4'-6"	5'-9"	7'-6"
25'	2'-3"	3'-6"	4'-9"	5'-9"	7'-9"
26'	2'-3"	3'-9"	4'-9"	6'-0"	7'-9"
27'	2'-6"	3'-9"	5'-0"	6'-3"	7'-9"
28'	2'-6"	4'-0"	5'-3"	6'-6"	8'-0"
29'	2'-6"	4'-0"	5'-6"	6'-9"	8'-3"
30'	2'-9"	4'-3"	5'-9"	7'-0"	8'-6"
31'	3'-0"	4'-3"	5'-9"	7'-3"	8'-9"
32'	3'-0"	4'-6"	6'-0"	7'-6"	9'-3"
33'	3'-0"	4'-9"	6'-3"	7'-9"	9'-6"
34'	3'-0"	5'-0"	6'-6"	8'-0"	9'-9"
35'	3'-3"	5'-0"	6'-6"	8'-3"	10'-0"
36'	3'-3"	5'-0"	6'-9"	8'-6"	10'-3"

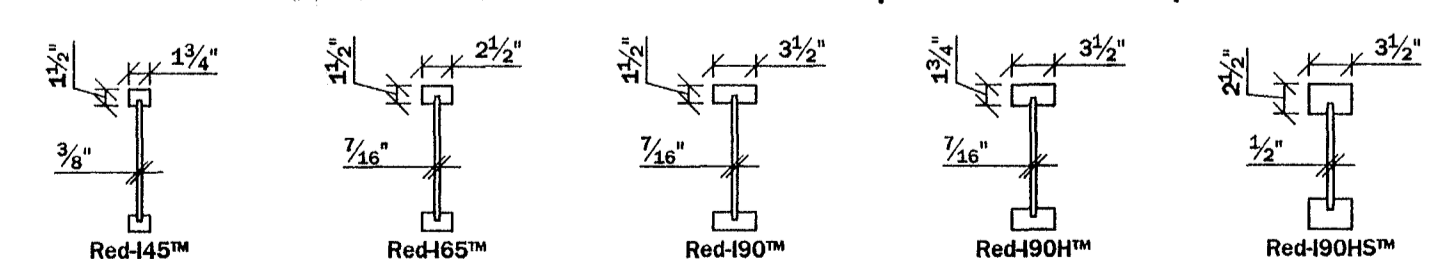
- Bold italic indicates that for Red-490HS™ joists, hole factor (letter) values must be increased by one letter and hole locations (distance) must be converted to Hole Factor A. No holes are allowed with Hole Factor E for Red-490HS™ joists.
- Rectangular holes based on measurement of longest side.

EXAMPLE: Find minimum distance from inside face of support to nearest edge of hole.



For concentrated loads and other exceptions, contact your RedBuilt™ Representative

RedBuilt™ Red-I® Product Sections Refer to plan for series and depth



If you have questions or concerns:
Call your RedBuilt™ Representative directly,
or for general customer service call
(866) 859-6757

GENERAL NOTES & LEGEND

DESIGN CONSIDERATIONS

BUILDING CODE:	2006 IBC
ROOF DESIGN	
ROOF LIVE LOAD (@ 125%):	25 PSF
DEAD LOAD:	15 PSF
NET WIND UPLIFT (@ 160%):	6 PSF

DRAWING NOTES & LEGEND

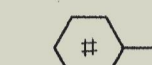
- FOR TYPICAL NOTES, STANDARD DETAILS, AND ABBREVIATIONS, SEE INSTALLATION COVERSHEET(S).

XX(##)

- DENOTES PRODUCT CALLOUT AND QUANTITY ON PLAN.
 "XX" - STRUCTURAL MEMBER TYPE CALLOUT
 "##" - QUANTITY OF STRUCTURAL MEMBERS IN BAY

I-JOIST NOTES & LEGEND

- ALL I-JOISTS WILL BE SENT LONG TO BE FIELD TRIMMED UNLESS MARKED "PET" ON MATERIAL LIST.



- DENOTES CONTINUOUS HANGER TYPE. SEE HANGER INFO.

RECTANGULAR SECTION NOTES & LEGEND



- DENOTES LOCATION OF BEAM OR COLUMN BY RB. SEE MATERIAL LIST FOR MORE INFORMATION.

- ALL PARALLAM BEAMS AND ASSOCIATED HARDWARE PROVIDED BY REDBUILT ARE AS SPECIFIED ON THE CONTRACT DRAWINGS. SPECIFICATIONS AND SIZE HAVE NOT BEEN VERIFIED BY REDBUILT ENGINEERING UNLESS OTHERWISE NOTED.

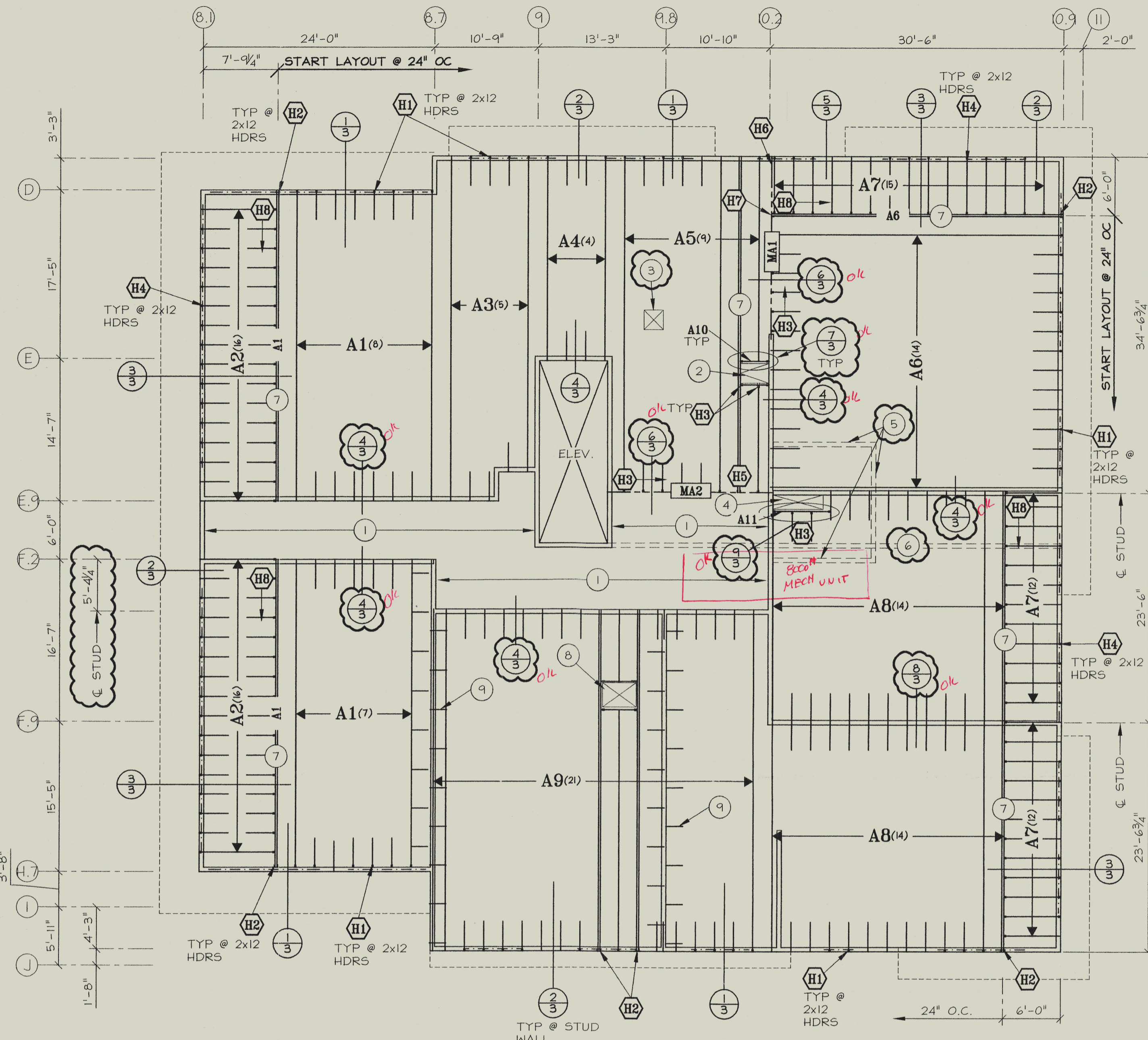
PRODUCT TYPE CHART	
SEE MATERIAL LIST FOR MORE INFORMATION	
CALLOUT	MEMBER
A	22" RED-165 JOIST
MA	3 1/2"x22" REDLAM BEAM

STRUCTURAL DEVIATION

I-JOISTS ARE TO BE INSTALLED FLAT. 1/4" : 12 ROOF SLOPE IS ASSUMED TO BE ACHIEVED WITH TAPERED INSULATION.

ENGINEERS REVIEW
 DCI ENGINEERS
 No Exceptions Taken
 No Comments
 Revised & Resubmit
 By: *BTM* Date: *1/11/10*
 ENGINEERS REVIEW IS FOR GENERAL CONFORMANCE TO THE DESIGN ONLY AND DOES NOT CONSTITUTE A REVIEW OF THE SPECIFIC STRUCTURAL ENGINEER'S DESIGN OR CONFORMANCE TO DESIGN CRITERIA AND COMPLIANCE WITH THE DESIGN OF THE BUILDING AND DOES NOT IMPLY THE ENGINEER'S RESPONSIBILITY FOR THE DESIGN. MATERIALS OR COMMENTS SHALL NOT BE CONSIDERED AS A REVIEW OF THE CONTRACTOR'S COMPLIANCE WITH THE PROJECT'S SPECIFICATIONS, REQUIREMENTS, THEREFROM. THE CONTRACTOR REMAINS RESPONSIBLE FOR DETAILS AND METHODS FOR CONSTRUCTION AND CORRELATING ALL QUANTITIES AND METHODS FOR SELECTING FABRICATION PROCESSES, FOR TECHNIQUES OF ASSEMBLY, AND FOR REWORKING BEFORE A FINAL REVIEW.

PROJECT ASSUMPTIONS
 - ALL MISCELLANEOUS ITEMS (SPRINKLER LINES, SOFFITS, ELECTRICAL CONDUITS, ETC.) ARE ASSUMED TO BE INCLUDED IN THE UNIFORM DESIGN DEAD LOAD, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THESE SHOP DRAWINGS.
 - ALL OPENINGS (DUCTWORK, PLUMBING, ETC.) ARE ASSUMED TO FIT BETWEEN REGULAR ON-CENTER SPACING AS SHOWN, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THESE SHOP DRAWINGS.
 CONTRACTOR/ENGINEER OF RECORD - PLEASE VERIFY THESE ASSUMPTIONS ARE ACCEPTABLE, OR CORRECT AS NEEDED. IF NO CORRECTIONS ARE MADE TO ASSUMPTIONS, RB WILL MANUFACTURE PRODUCT WITH THE INFORMATION SHOWN ON THESE SHOP DRAWINGS.



ROOF FRAMING LOCATION PLAN
 SCALE 1/8" = 1'-0"

KEY NOTES

- ① DENOTES FRAMING BY OTHERS.
- ② DENOTES ROOF HATCH.
- ③ DENOTES CORRIDOR EXHAUST DUCT. DUCT IS ASSUMED TO FIT BETWEEN 24" JOIST SPACING. G.C. TO VERIFY.
- ④ DENOTES RESTAURANT EXHAUST SHAFT.
- ⑤ DENOTES SCREEN WALL. E.O.R. TO PROVIDE LOAD ONTO JOISTS. *40 plf*
- ⑥ DENOTES PARAPET WALL. D.L. = 30 PLF *ok*
- ⑦ DENOTES FIELD ASSEMBLED DOUBLE JOIST.
- ⑧ DENOTES TRASH CHUTE.
- ⑨ DENOTES BLOCKING PANELS WITH END BLOCKS @ 46" O.C. (ALT SIDES) PER DETAIL 19/95.1.

- ALL ITEMS "CLOUDED" MUST BE MARKED AS OK OR CORRECT INFORMATION PROVIDED.

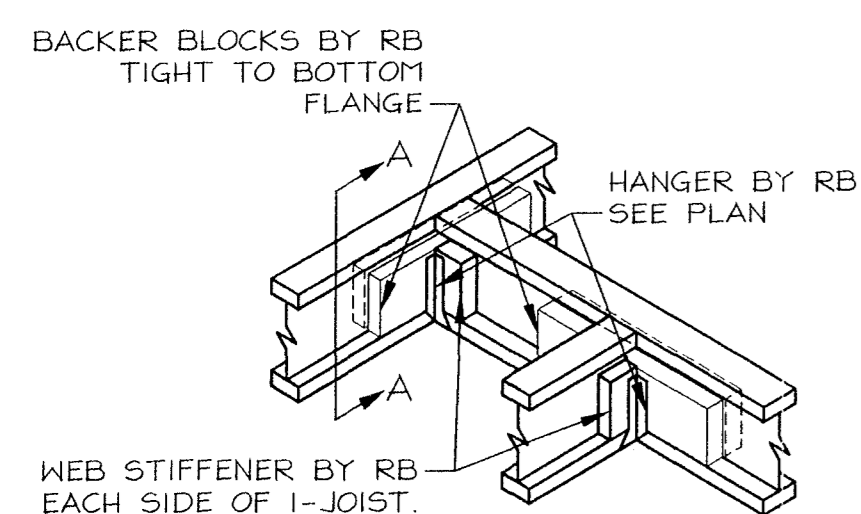
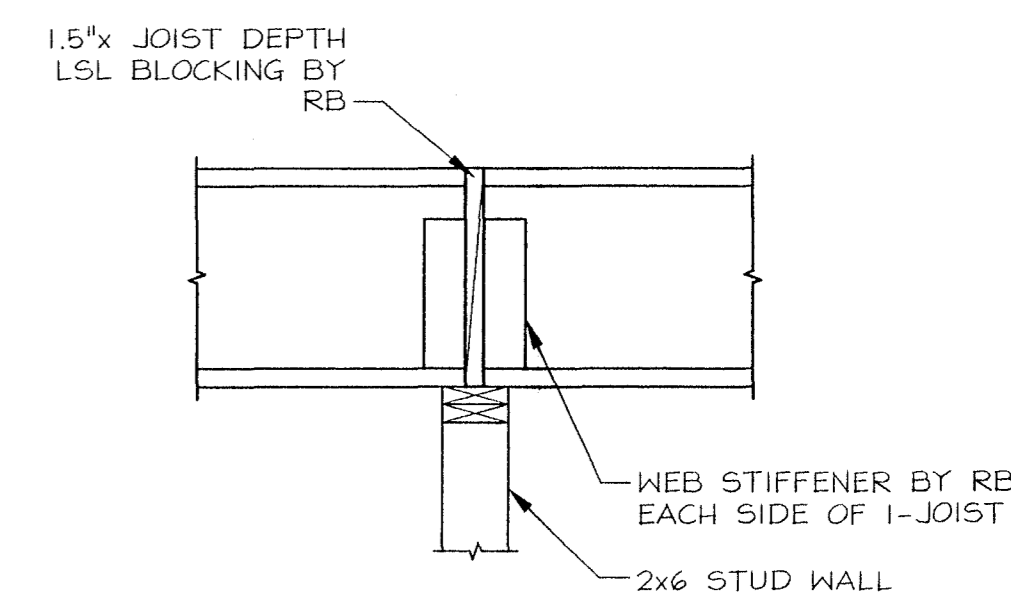
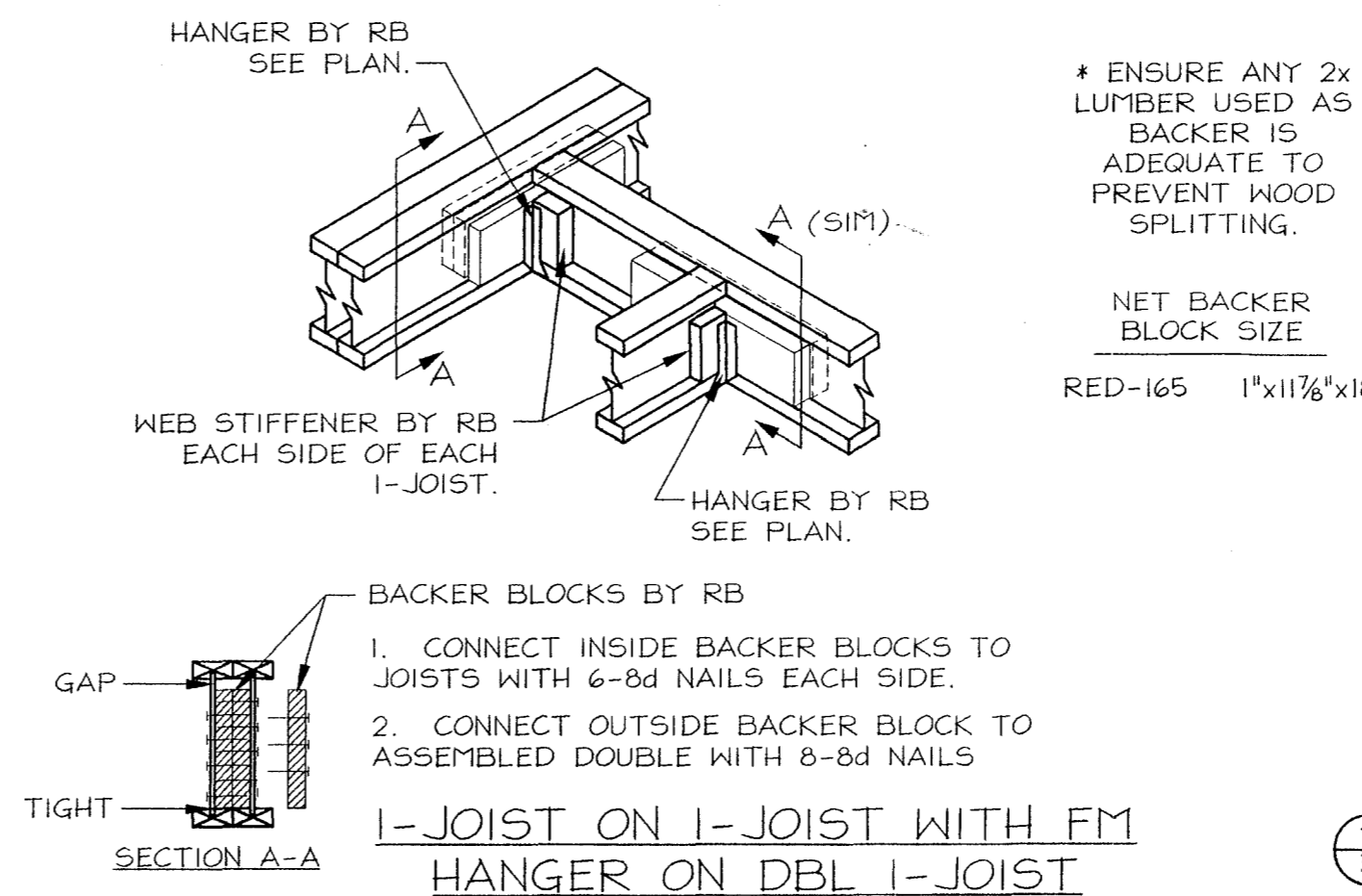
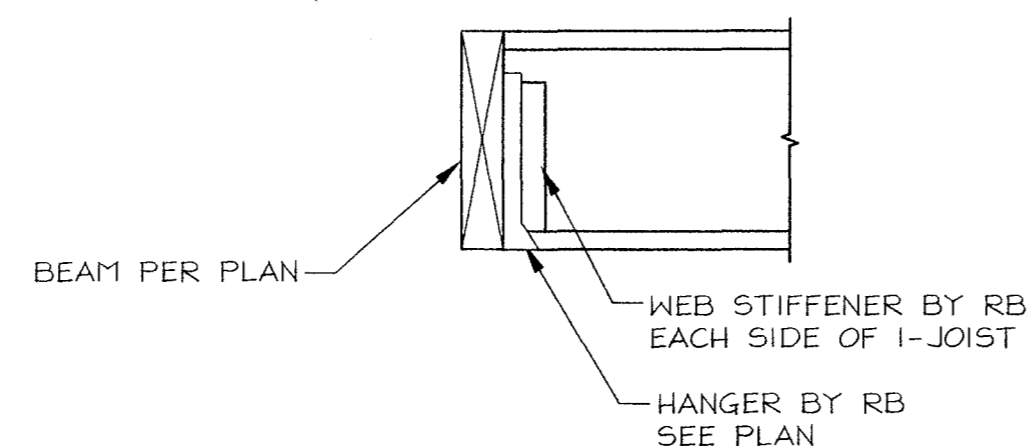
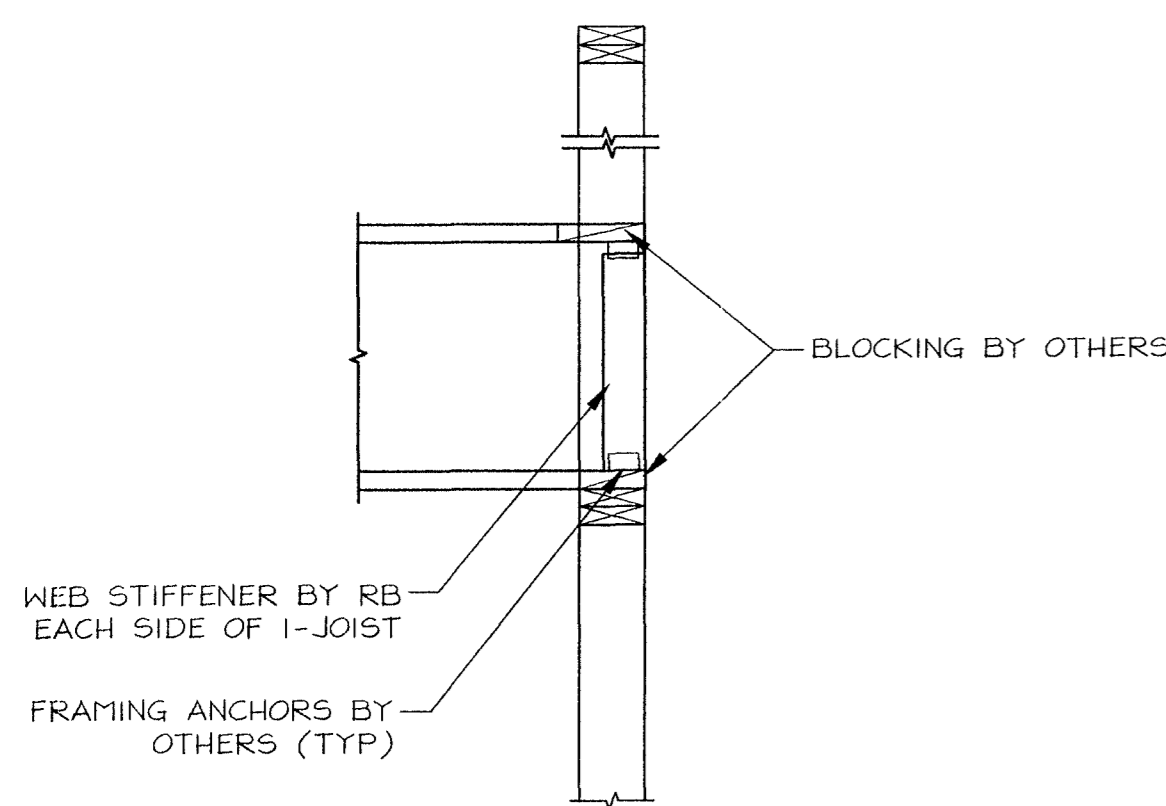
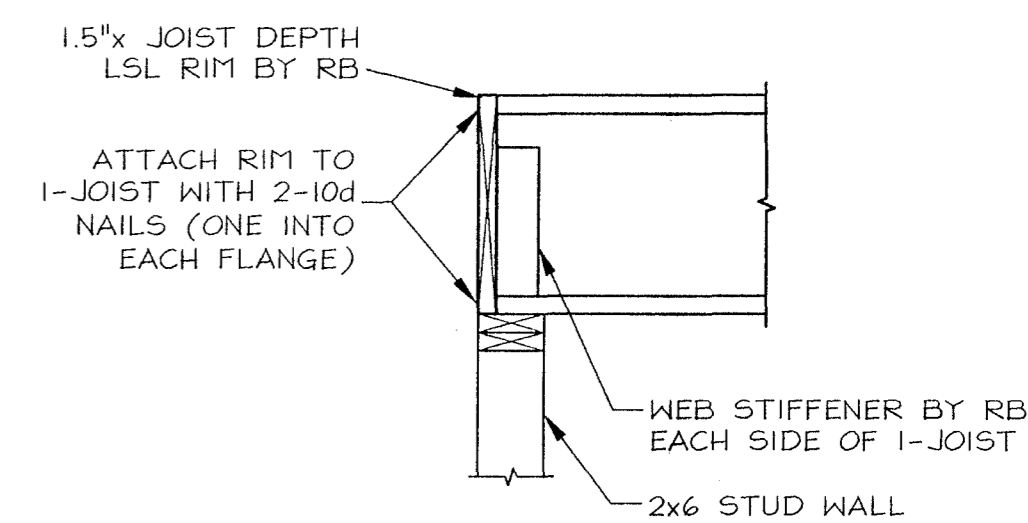
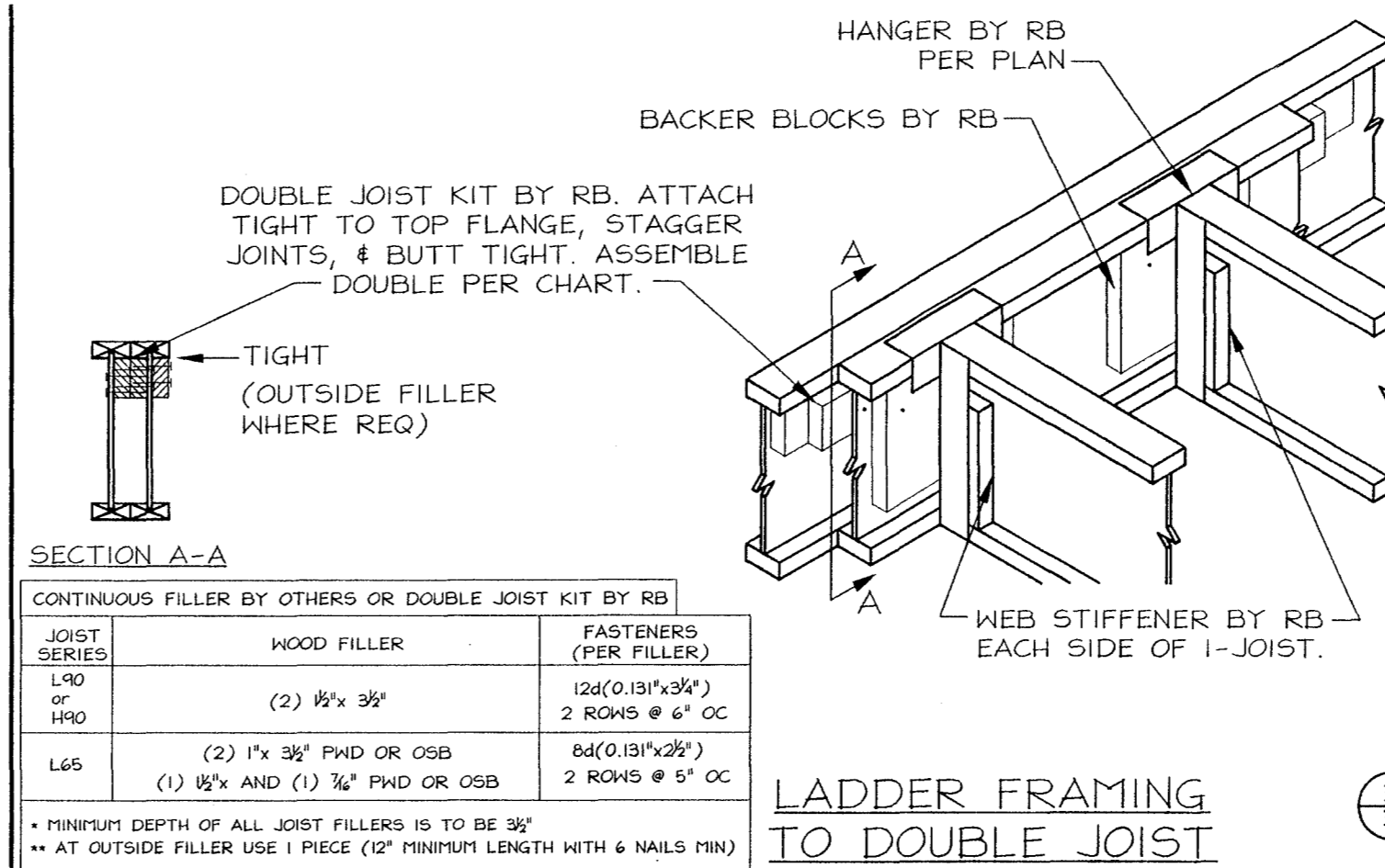
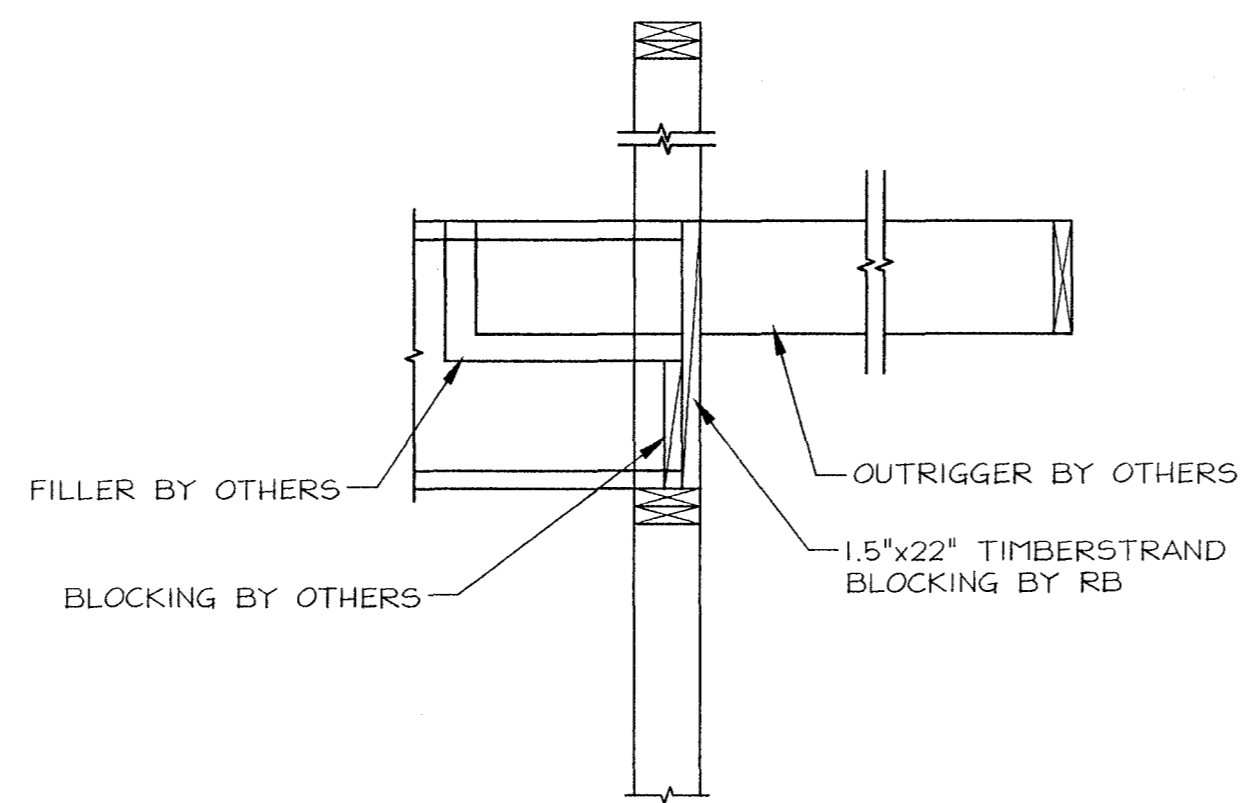
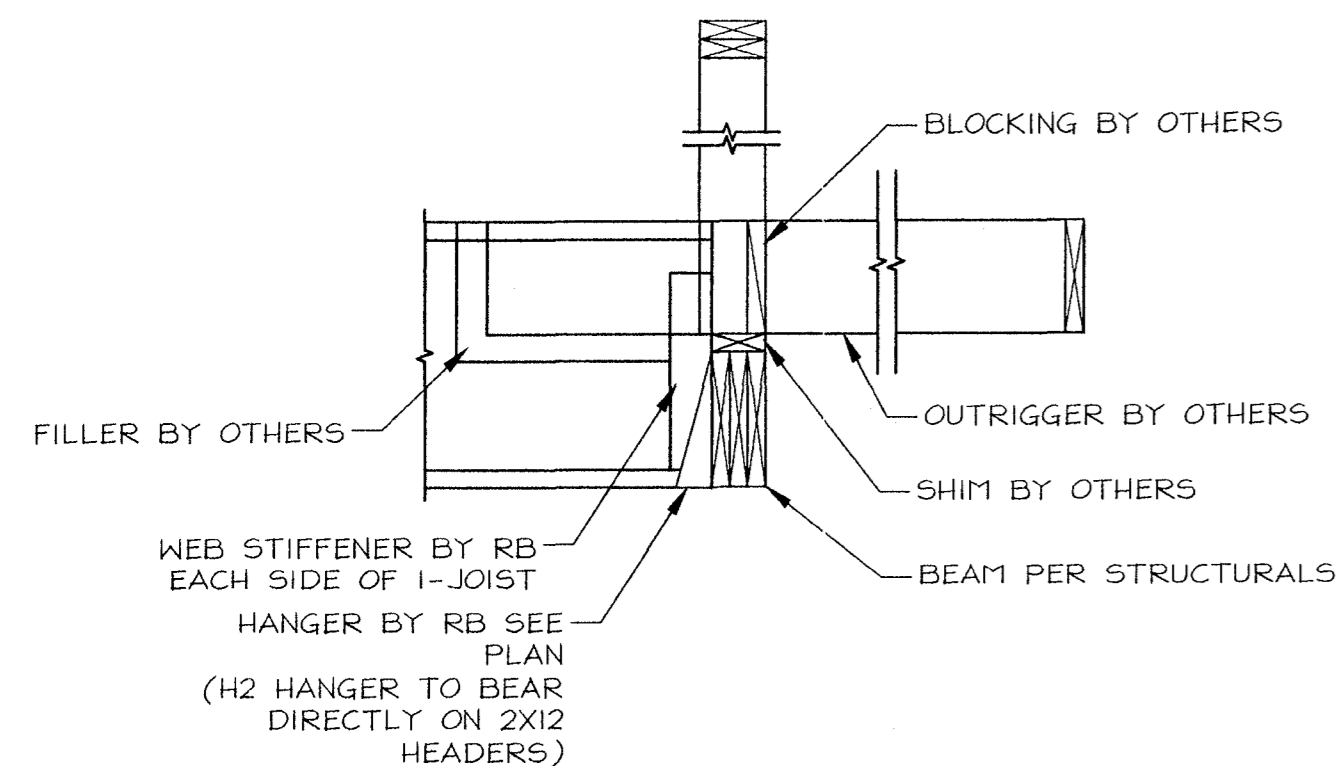
Hangers

Quantity	Type	Model	Nailing			Modifications	Finish	Web Stiffeners Required	Note
			Top	Face	Member				
48	H1	M1U2.56/11	-	22-N10	2-N10		-	✓	-
6	H2	B5.12/22	6-10d	8-10d	6-N10	NetH=11.25	-	✓	-
30	H3	IUT314	-	14-N10	2-N10		-	✓	-
52	H4	IUT312	-	14-N10	2-N10		-	✓	-
1	H5	M1U5.12/14	-	22-N10	2-N10		-	✓	-
1	H6	HGUS414	-	66-16d	22-16d		-	✓	-
1	H7	HU5.125/13.5	-	26-16d	12-16d		-	✓	-
70	H8	HIT322	4-16D	6-16D	2-N10		-	✓	-

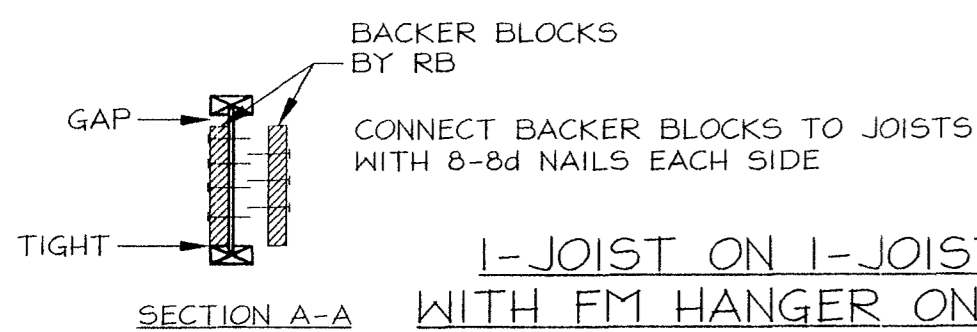
FOR APPROVAL ONLY
 NOT FOR CONSTRUCTION

BY		DATE	REMARKS
101 KIRKLAND MIXED USE PROJECT KIRKLAND, WA			
DRAWN		DATE	CHECKED
PK	12-23-09	PK	12-23-09
ORDER #		SHEET	
09-035999		2 of 3	

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* ENSURE ANY 2x LUMBER USED AS BACKER IS ADEQUATE TO PREVENT WOOD SPLITTING.
NET BACKER BLOCK SIZE
RED-165 1"x11 7/8"x18 1/4"



- STRAPS, ANCHORS, CLIPS, AND OTHER HARDWARE NOT SHOWN ARE TO BE PROVIDED BY OTHERS. HARDWARE SHOWN IS TO BE PROVIDED BY OTHERS UNLESS MARKED 'BY RB.' REFER TO THE CONTRACT DOCUMENTS FOR HARDWARE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.

- SEE I-JOIST INSTALLATION SHEET FOR WEB STIFFENER NAILING.

- FOR BEAMS SUPPLIED BY OTHERS, SEE CONTRACT DOCUMENTS FOR SPECIFICATIONS AND OTHER INFORMATION NOT SHOWN HEREIN.

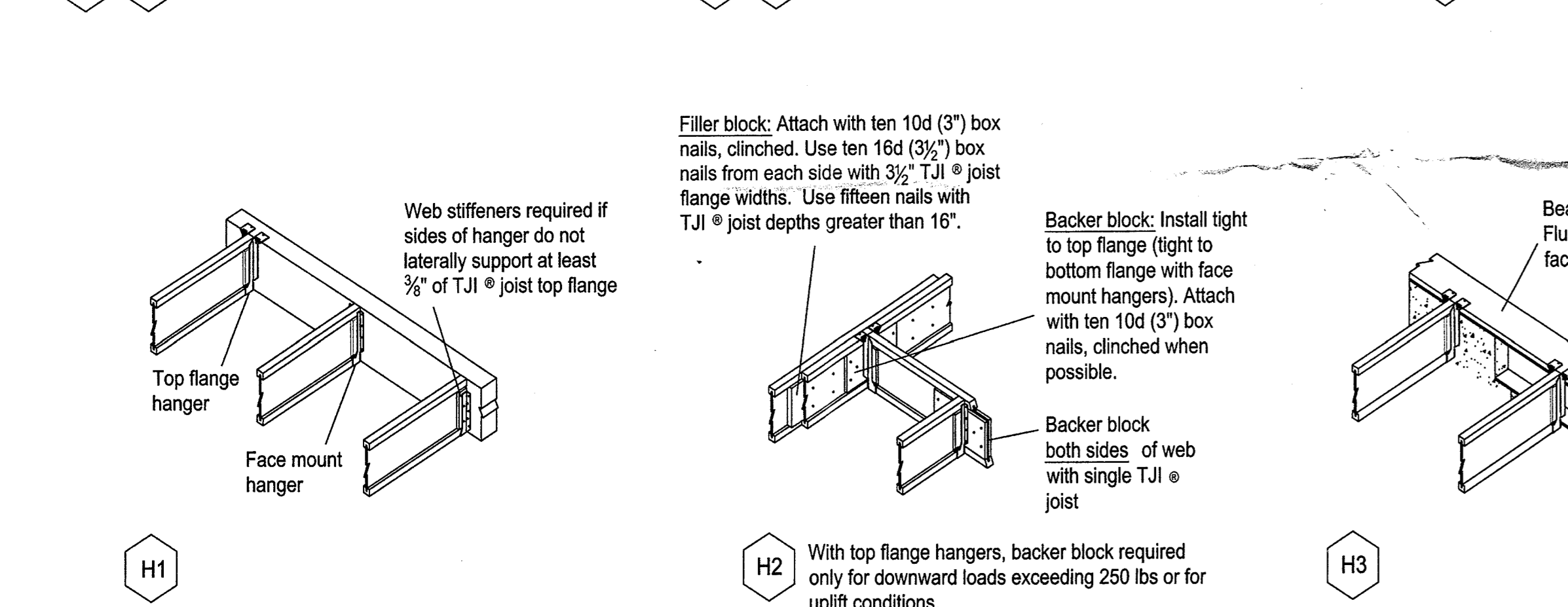
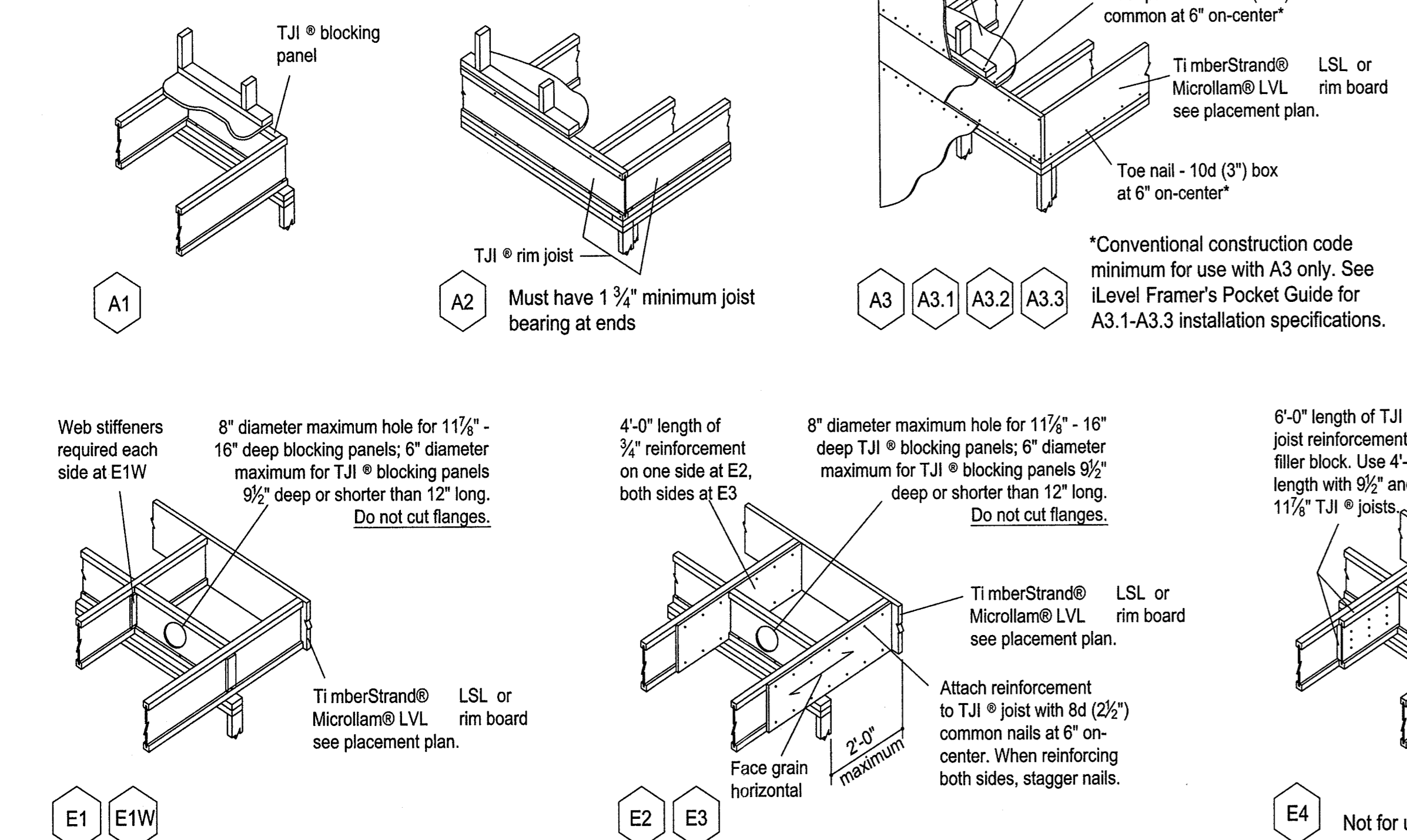
- FOR ATTACHMENT OF SPRINKLER LINES, MECHANICAL DUCTS, ETC... TO JOISTS OR TRUSSES, PLEASE SEE "SPRINKLER SYSTEM INSTALLATION GUIDELINES". IF ADDITIONAL COPIES ARE REQUIRED, PLEASE CONTACT REDBUILT OR GO ONLINE TO: [HTTP://WWW.REDBUILT.COM](http://www.redbuilt.com)

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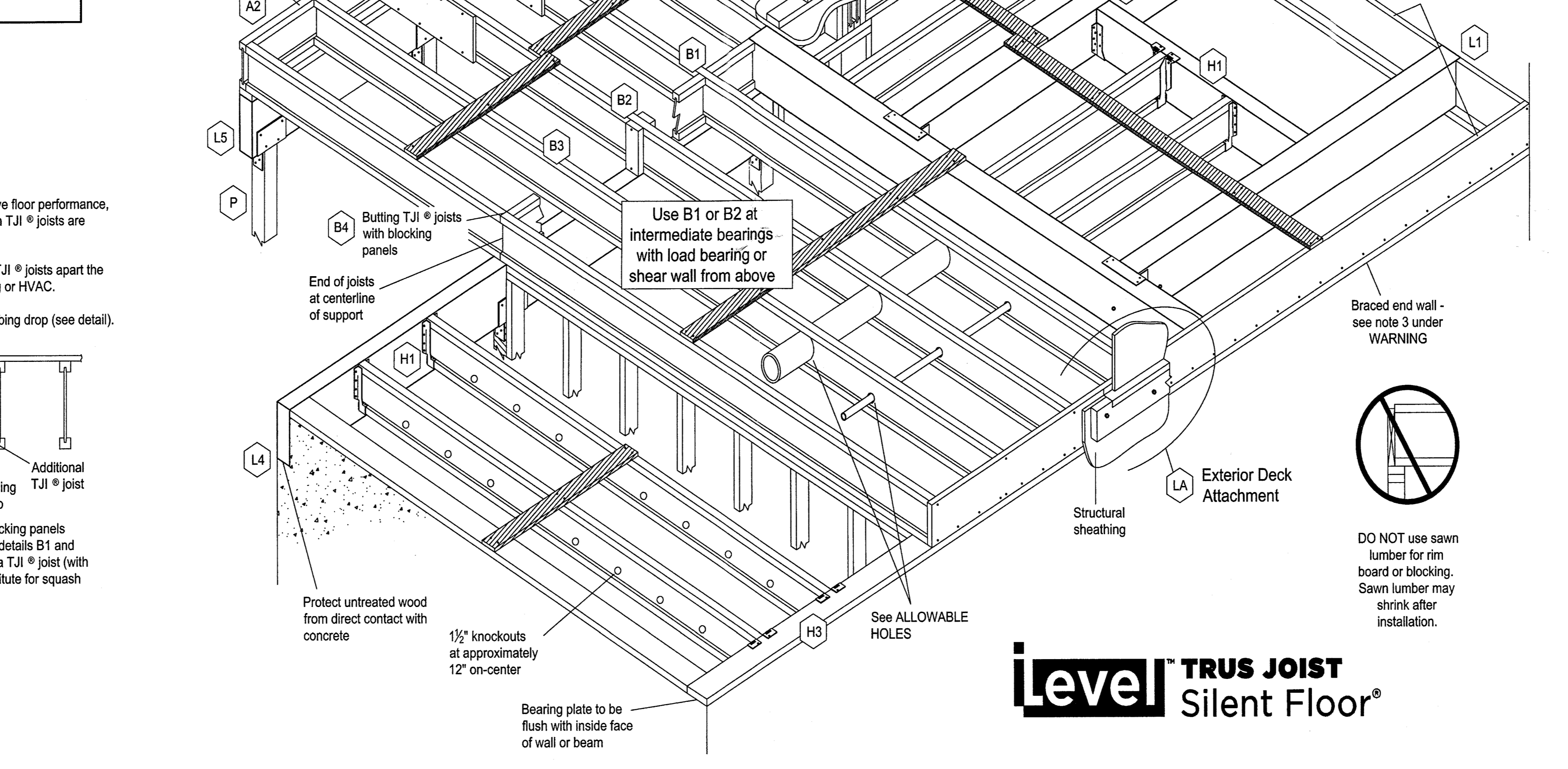
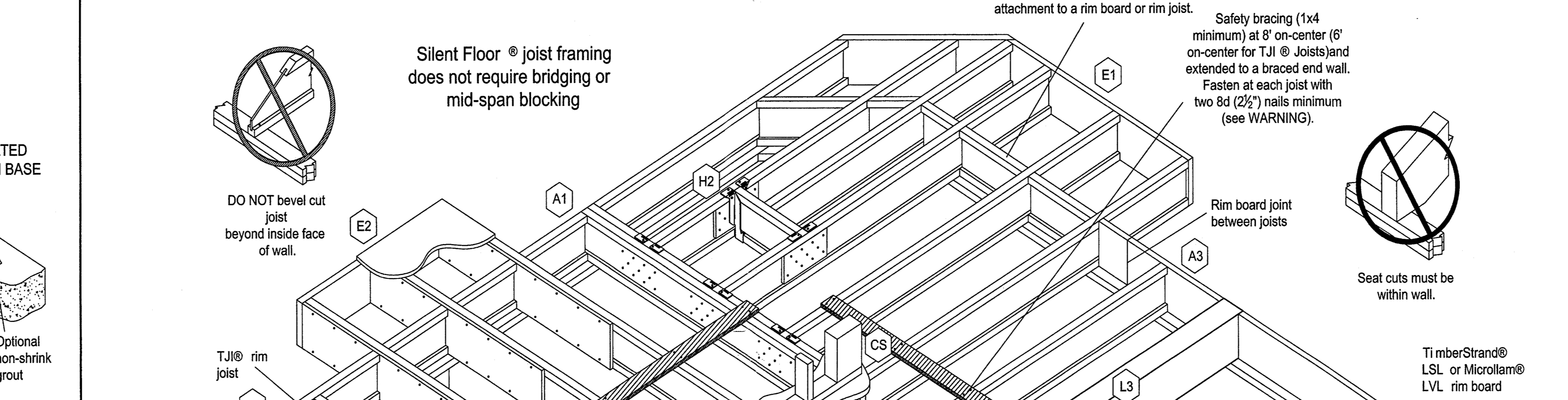
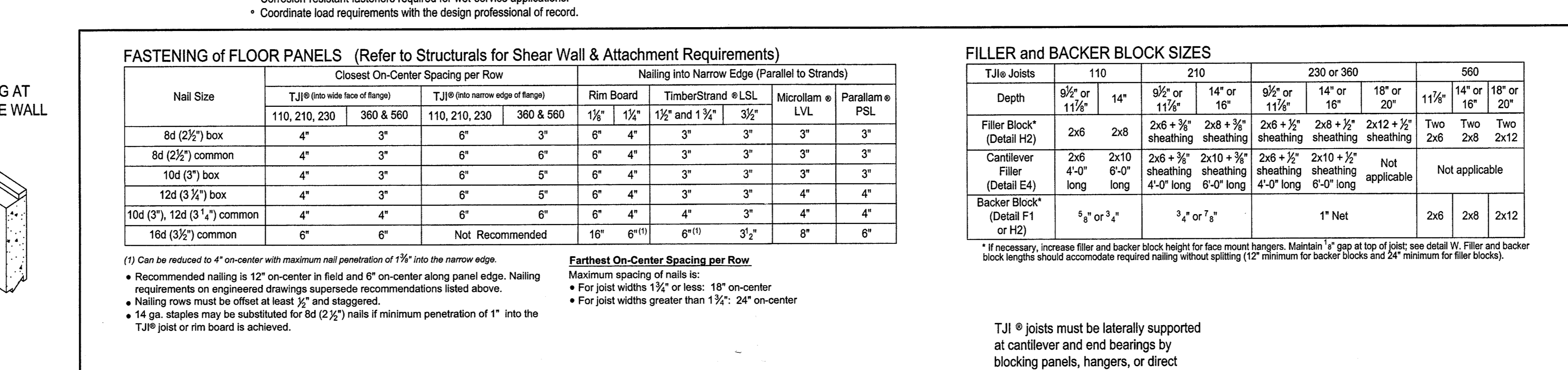
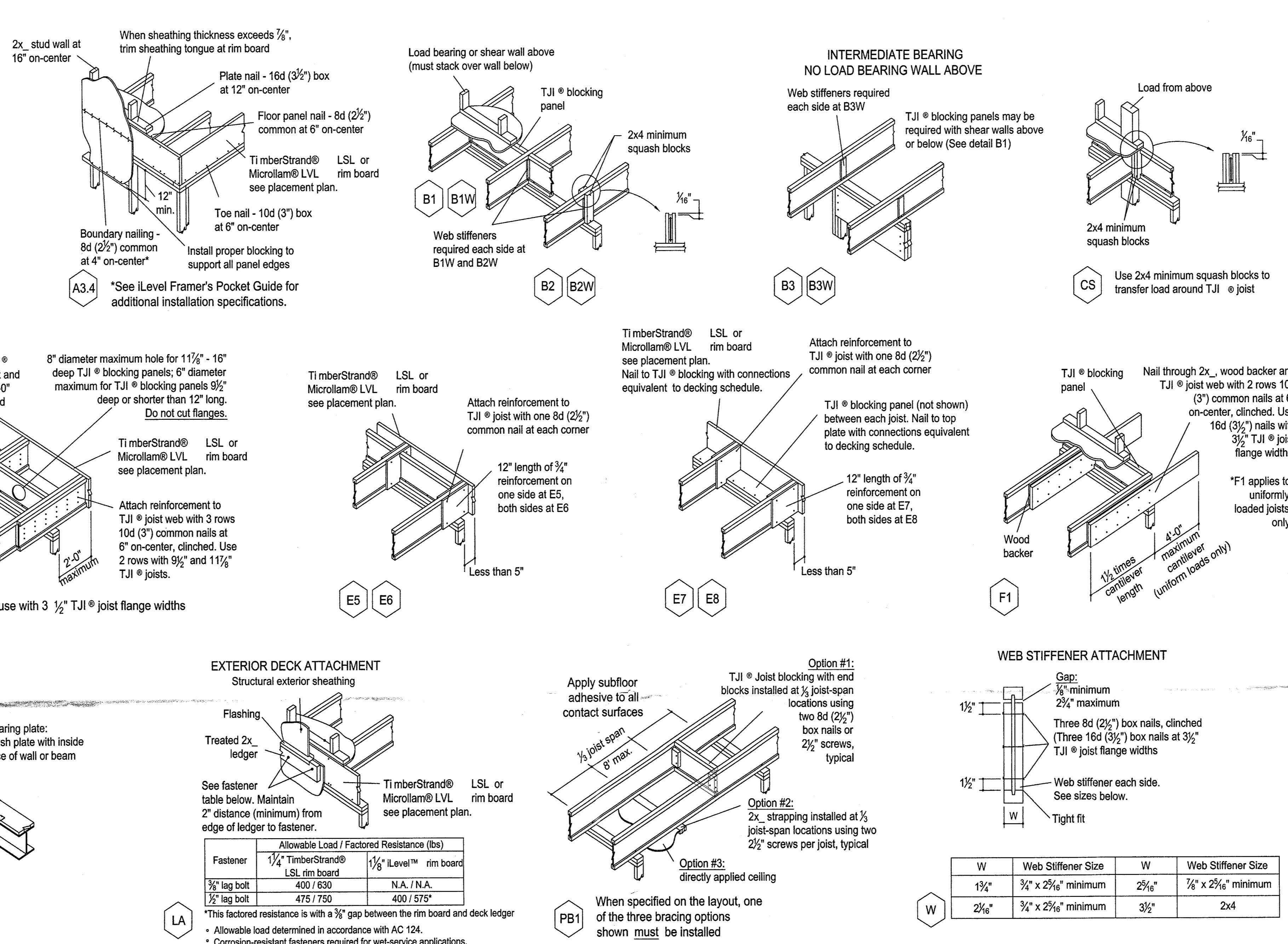
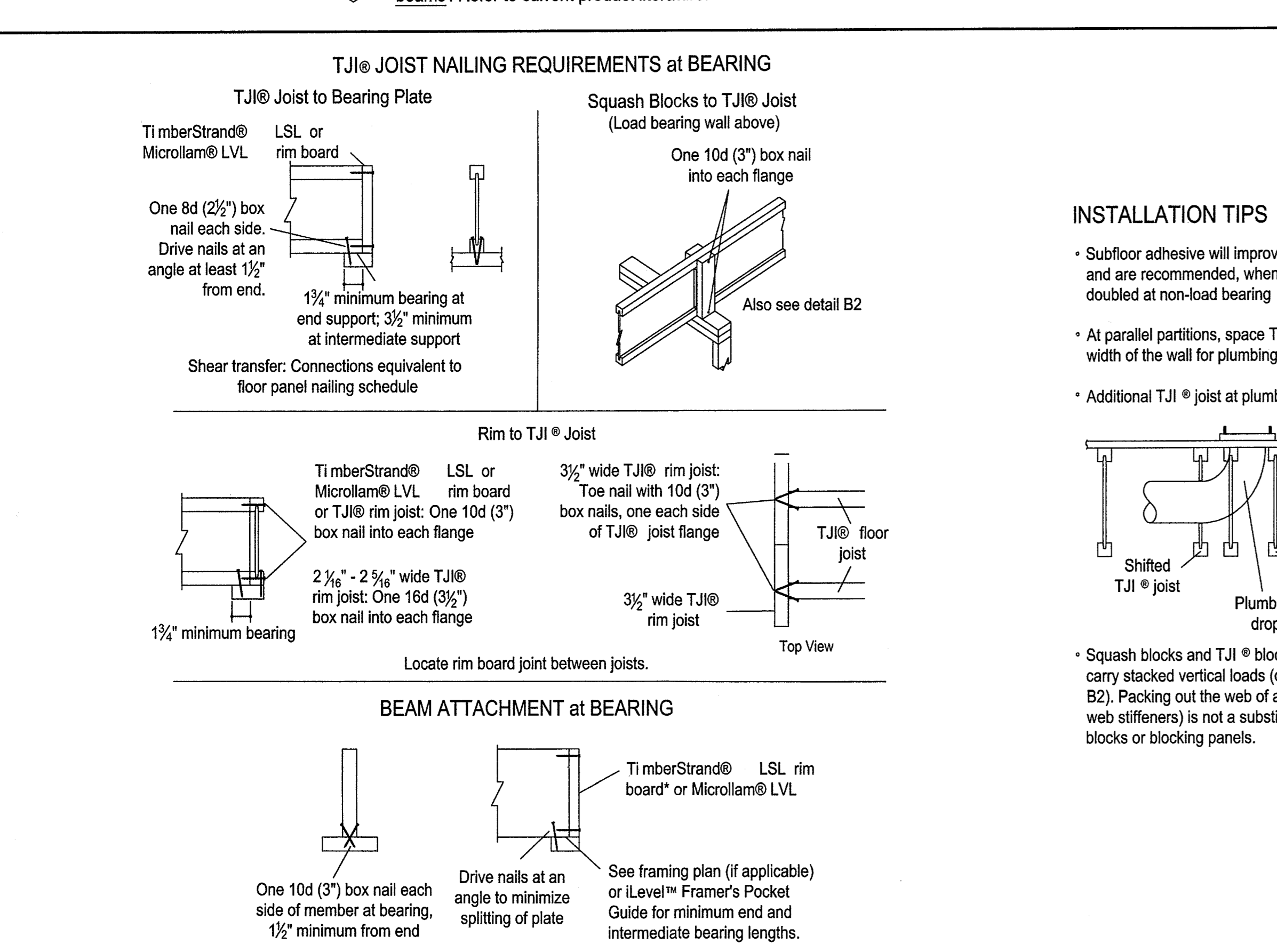
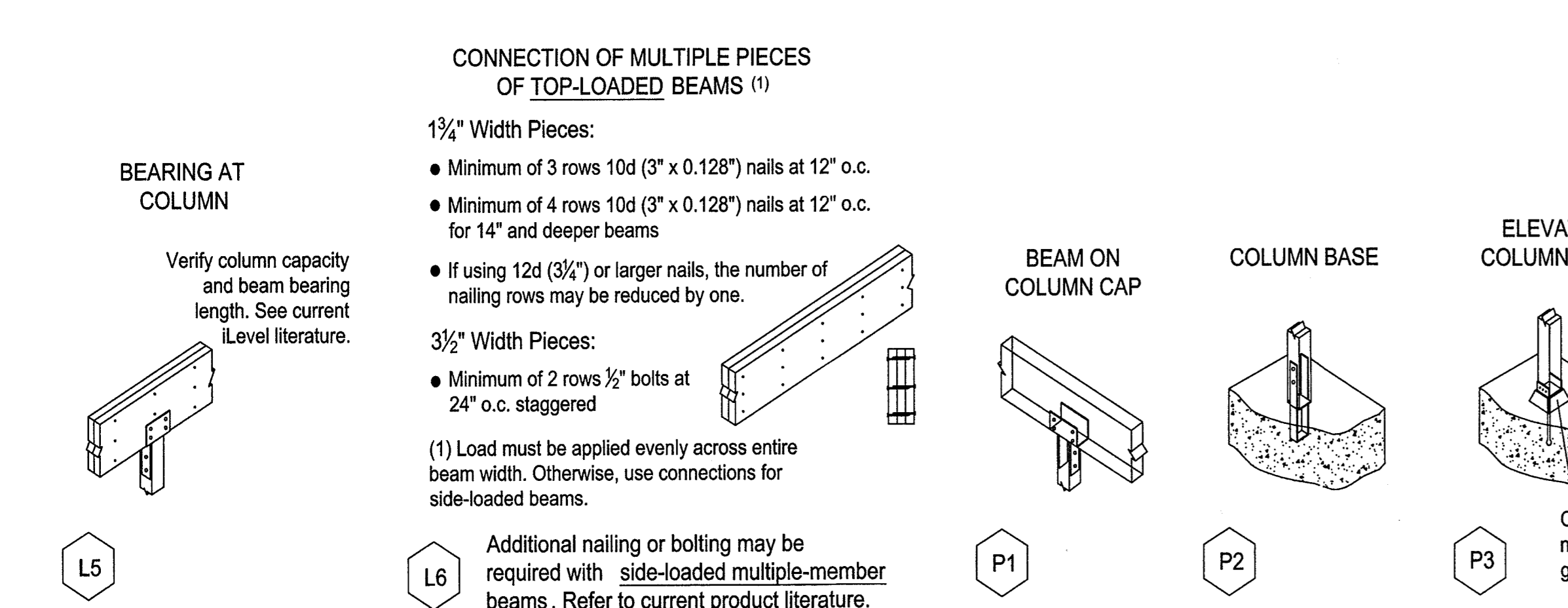
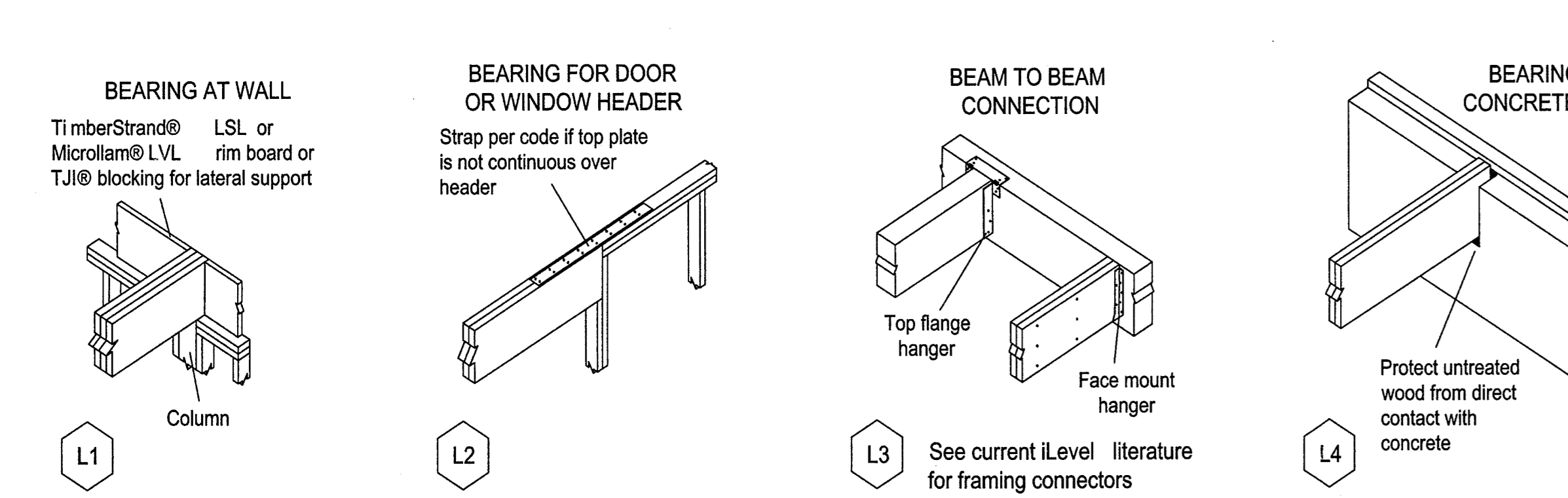
BY		DATE		REMARKS	
RedBUILT Formerly the Commercial Division of Trus Joist					
101 KIRKLAND MIXED USE PROJECT KIRKLAND, WA					
DRAWN	DATE	CHECKED	DATE	ORDER #	SHEET
PK	12-23-09	PK	12-23-09	09-035999	3 OF 3

GENERAL JOIST ASSEMBLY DETAILS

NOTE: STRUCTURAL DOCUMENTS FOR THIS PROJECT PER THE DESIGN PROFESSIONAL OF RECORD SHALL SUPERCEDE ALL ASSEMBLIES SHOWN IN THIS SECTION, ALSO REFER TO LEVEL PLACEMENT PLANS (AND MATERIAL SCHEDULES) FOR REQUIRED MATERIAL.



BEAM and COLUMN DETAILS



ALLOWABLE HOLES - TJI® Joists

NOTE: CONTACT LEVEL FOR VERIFICATION OF ALLOWABLE HOLES INTO LEVEL PRODUCTS.

Table A - End Support

DEPTH	ROUND HOLE SIZE												SQUARE OR RECTANGULAR HOLE SIZE											
	2"	3"	4"	5"	6"	7"	8 1/2"	11"	13"	2"	3"	4"	5"	6 1/2"	7"	8 1/2"	11"	13"						
9 1/2"	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110						
11 1/2"	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110						
14"	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110						
16"	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110						

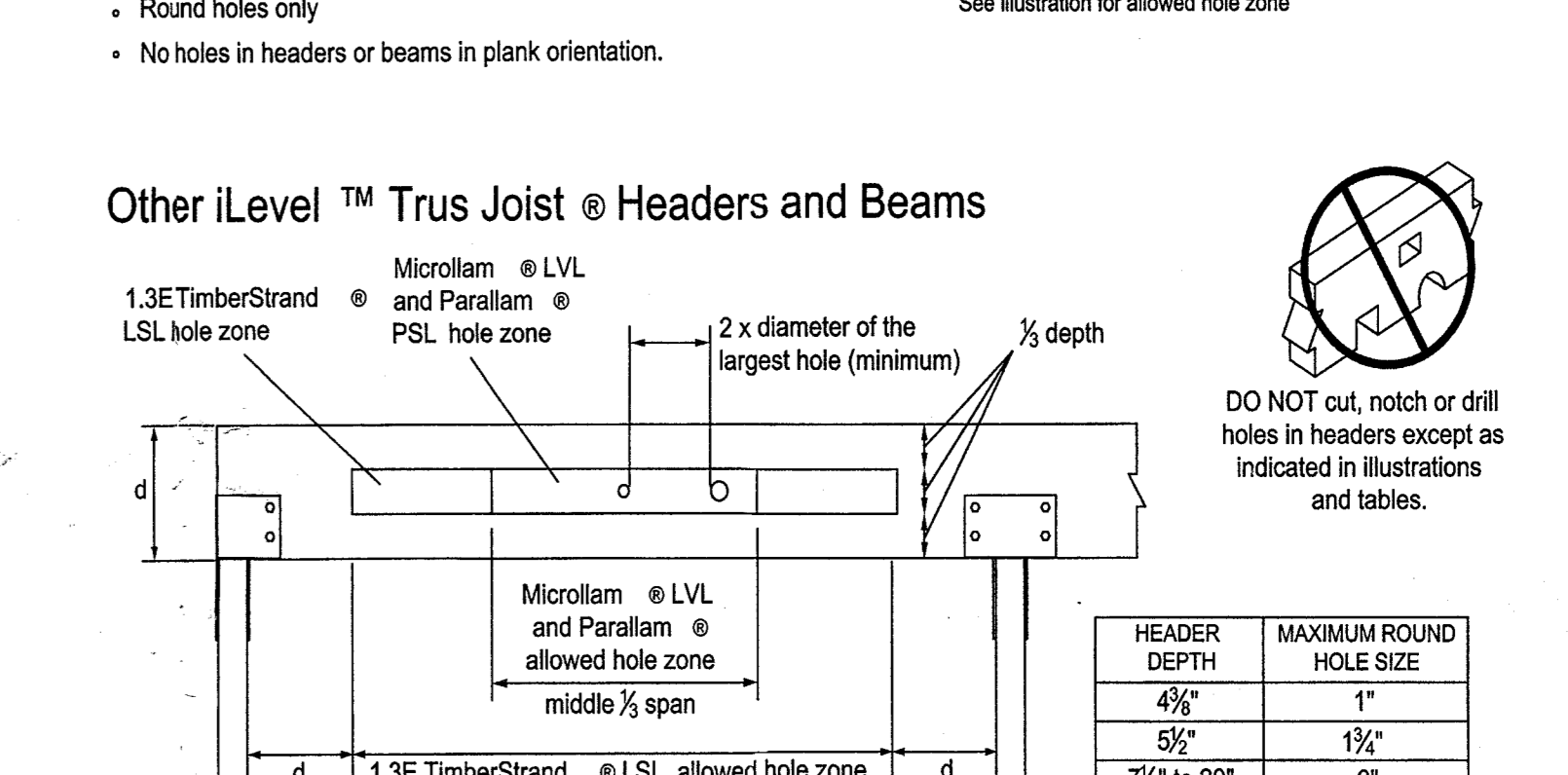
Table B - Intermediate or Cantilever Support

DEPTH	ROUND HOLE SIZE												SQUARE OR RECTANGULAR HOLE SIZE											
	2"	3"	4"	5"	6"	7"	8 1/2"	11"	13"	2"	3"	4"	5"	6 1/2"	7"	8 1/2"	11"	13"						
9 1/2"	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110						
11 1/2"	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110						
14"	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110						
16"	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110						

Rectangular holes based on measurement of longest side.

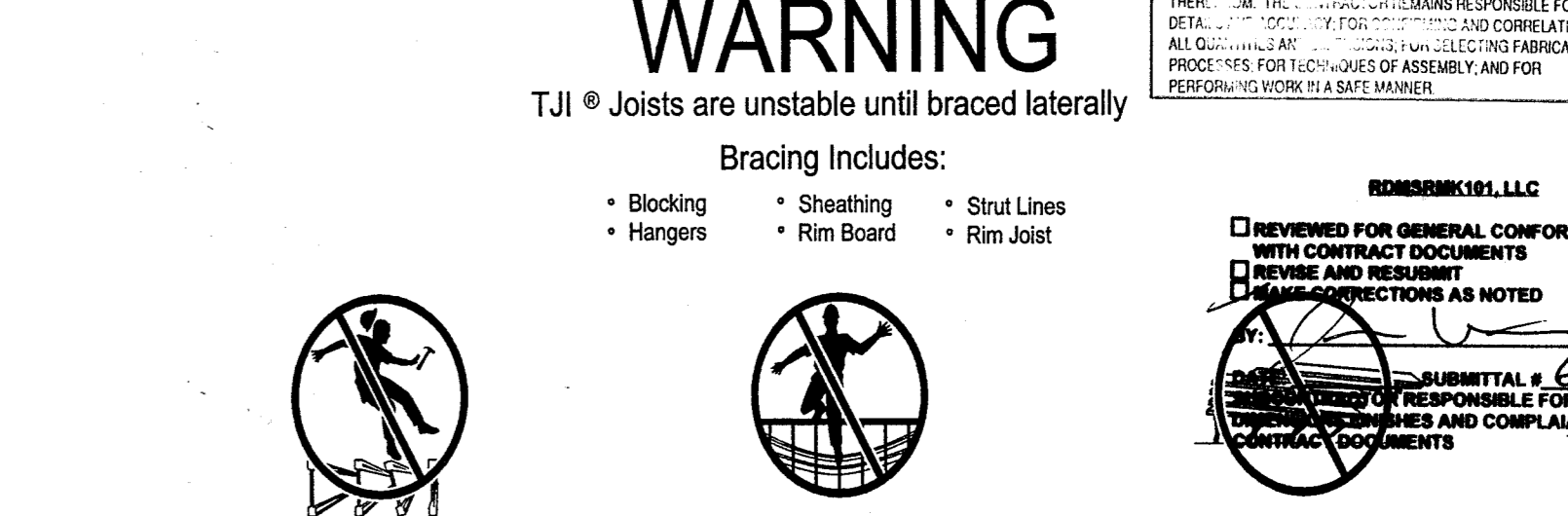
• Holes may be located vertically anywhere within the web. Leave 1/2" of web (minimum) at top and bottom of hole.
 • Knockouts are located in web at approximately 12" on-center; they do not affect hole placement.
 • For simple span (5' minimum), uniformly loaded joists used in residential applications, one maximum size round hole may be located at the center of the joist span provided no other holes occur in the joist.
 • Distances based on the maximum uniform loads shown in current Level product guides. For other load conditions or hole configurations contact your Level representative.

ALLOWABLE HOLES - Headers and Beams



General Notes:
 • Round holes only
 • No holes in headers or beams in plank orientation.

Other iLevel™ Trus Joist® Headers and Beams



General Notes:
 • Allowed hole zone suitable for uniformly loaded headers and beams only.
 • Round holes only
 • No holes in cantilevers.
 • No holes in headers or beams in plank orientation.

WARNING
 TJI® Joists are unstable until braced laterally.

Bracing includes:
 • Blocking
 • Sheathing
 • Rim Board
 • Strut Lines
 • Rem Joist

DO NOT walk on TJI® joists until braced. INJURY MAY RESULT.
 DO NOT walk on TJI® joists that are lying flat.
 DO NOT stack building materials on unbraced TJI® joists. Stack only over beams or walls.

WARNING NOTES:
 Lack of proper bracing during construction can result in serious accidents. Observe the following guidelines:
 1. All blocking, hangers, rim boards and rim joists at the end supports of the TJI® joists must be completely installed and properly nailed.
 2. Establish a permanent deck (sheathing), nailed to the first 4 feet of TJI® joists at the end of the joist brace end wall.
 3. Safety bracing of 1x4 (minimum) must be nailed to a braced end wall or sheathed area and to each joist.
 4. Sheathing must be properly nailed to each TJI® joist before additional loads can be placed on the system.
 5. Ends of cantilevers require safety bracing on both the top and bottom flanges.
 6. TJI® joist flanges must remain straight within 1/2" from true alignment.

This sheet is intended as a supplement to the iLevel™ Framers Pocket Guide, which should be referenced for additional information.



Level TRUS JOIST engineered lumber products

LEVEL NORTHWEST TECHNICAL DIVISION
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Level prepared these placement plans for the specification of Level products based on project information provided to us. This service is solely intended for product application assurance; it 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.

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 101 Kirkland Ave
 Kirkland, WA

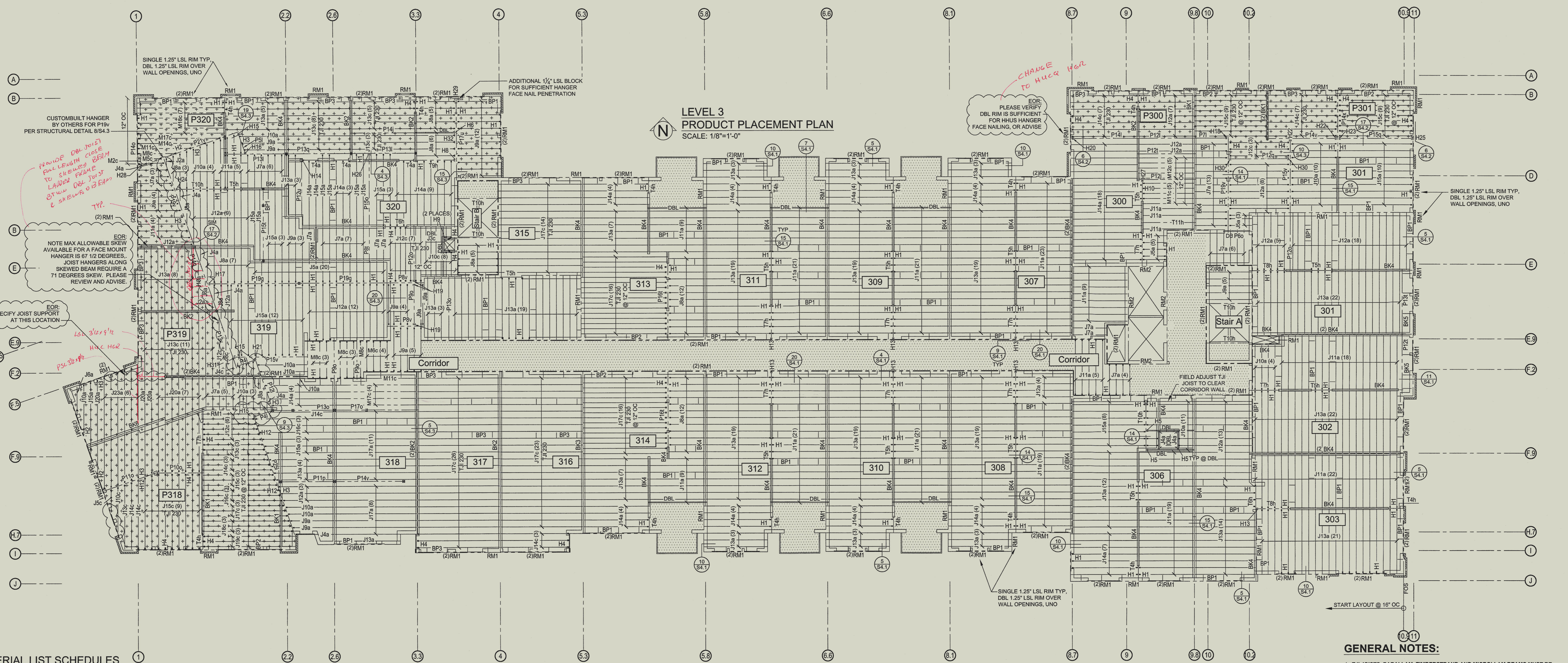
DATE: 05-JAN-2010
 CHECKED BY: AWL
 DRAWN BY: [Name]
 PROJECT #: R09-120381
 SERVICE: SR-143468
 SHEET: 1 of 4

I-level prepared these placement plans for the specification of Level products based on project information provided to us. This service is solely 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.
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DRAWING DATE: 05-JAN-2010
 CHECKED BY: AAL
 DRAWN BY: AAL



MATERIAL LIST SCHEDULES FOR LEVEL 3

9.5\" TJI 110

Unit	Quantity	Type	Depth	Series	Cut Length	Total
300	5	J5a	09.5	TJ1 110	5'-0"	25'-0"
300	13	J7a	09.5	TJ1 110	7'-0"	91'-0"
300	3	J11a	09.5	TJ1 110	11'-0"	33'-0"
300	2	J12a	09.5	TJ1 110	12'-0"	24'-0"
300	18	J14a	09.5	TJ1 110	14'-0"	252'-0"
301	3	J5a	09.5	TJ1 110	5'-0"	15'-0"
301	10	J10a	09.5	TJ1 110	10'-0"	100'-0"
301	31	J12a	09.5	TJ1 110	12'-0"	372'-0"
301	22	J13a	09.5	TJ1 110	13'-0"	286'-0"
301	10	J15a	09.5	TJ1 110	15'-0"	150'-0"
302	4	J10a	09.5	TJ1 110	10'-0"	40'-0"
302	18	J11a	09.5	TJ1 110	11'-0"	198'-0"
302	22	J13a	09.5	TJ1 110	13'-0"	286'-0"
302	22	J11a	09.5	TJ1 110	11'-0"	242'-0"
303	13	J12a	09.5	TJ1 110	12'-0"	156'-0"
303	35	J13a	09.5	TJ1 110	13'-0"	455'-0"
306	4	J4a	09.5	TJ1 110	4'-0"	16'-0"
306	11	J10a	09.5	TJ1 110	10'-0"	110'-0"
306	19	J11a	09.5	TJ1 110	11'-0"	209'-0"
306	12	J13a	09.5	TJ1 110	13'-0"	156'-0"
306	7	J14a	09.5	TJ1 110	14'-0"	98'-0"
306	8	J15a	09.5	TJ1 110	15'-0"	120'-0"
307	2	J7a	09.5	TJ1 110	7'-0"	14'-0"
307	32	J11a	09.5	TJ1 110	11'-0"	352'-0"
307	22	J13a	09.5	TJ1 110	13'-0"	286'-0"
307	4	J14a	09.5	TJ1 110	14'-0"	56'-0"
308	19	J11a	09.5	TJ1 110	11'-0"	209'-0"
308	5	J12a	09.5	TJ1 110	12'-0"	60'-0"
308	22	J13a	09.5	TJ1 110	13'-0"	286'-0"
308	4	J14a	09.5	TJ1 110	14'-0"	56'-0"
309	21	J11a	09.5	TJ1 110	11'-0"	231'-0"
309	22	J13a	09.5	TJ1 110	13'-0"	286'-0"
309	4	J14a	09.5	TJ1 110	14'-0"	56'-0"
310	22	J13a	09.5	TJ1 110	13'-0"	286'-0"
310	4	J14a	09.5	TJ1 110	14'-0"	56'-0"
311	21	J11a	09.5	TJ1 110	11'-0"	231'-0"
311	22	J13a	09.5	TJ1 110	13'-0"	286'-0"
312	4	J14a	09.5	TJ1 110	14'-0"	56'-0"
313	12	J8a	09.5	TJ1 110	8'-0"	96'-0"
313	9	J11a	09.5	TJ1 110	11'-0"	99'-0"
313	7	J13a	09.5	TJ1 110	13'-0"	91'-0"
313	4	J14a	09.5	TJ1 110	14'-0"	56'-0"
314	12	J8a	09.5	TJ1 110	8'-0"	96'-0"
314	9	J11a	09.5	TJ1 110	11'-0"	99'-0"
314	7	J13a	09.5	TJ1 110	13'-0"	91'-0"

9.5\" TJI 110

Unit	Quantity	Type	Depth	Series	Cut Length	Total
314	4	J14a	09.5	TJ1 110	14'-0"	56'-0"
315	19	J13a	09.5	TJ1 110	13'-0"	247'-0"
318	1	J4a	09.5	TJ1 110	4'-0"	4'-0"
318	2	J9a	09.5	TJ1 110	9'-0"	18'-0"
318	2	J10a	09.5	TJ1 110	10'-0"	20'-0"
318	3	J12a	09.5	TJ1 110	12'-0"	36'-0"
318	5	J13a	09.5	TJ1 110	13'-0"	65'-0"
318	3	J15a	09.5	TJ1 110	15'-0"	45'-0"
318	19	J17a	09.5	TJ1 110	17'-0"	323'-0"
319	2	J4a	09.5	TJ1 110	4'-0"	8'-0"
319	20	J5a	09.5	TJ1 110	5'-0"	100'-0"
319	8	J8a	09.5	TJ1 110	8'-0"	64'-0"
319	3	J9a	09.5	TJ1 110	9'-0"	27'-0"
319	3	J10a	09.5	TJ1 110	10'-0"	30'-0"
319	13	J12a	09.5	TJ1 110	12'-0"	156'-0"
319	4	J14a	09.5	TJ1 110	14'-0"	56'-0"
319	12	J15a	09.5	TJ1 110	15'-0"	180'-0"
320	1	J2a	09.5	TJ1 110	2'-0"	2'-0"
320	1	J4a	09.5	TJ1 110	4'-0"	4'-0"
320	16	J7a	09.5	TJ1 110	7'-0"	112'-0"
320	10	J8a	09.5	TJ1 110	8'-0"	80'-0"
320	3	J9a	09.5	TJ1 110	9'-0"	27'-0"
320	4	J10a	09.5	TJ1 110	10'-0"	40'-0"
320	9	J12a	09.5	TJ1 110	12'-0"	108'-0"
320	3	J13a	09.5	TJ1 110	13'-0"	39'-0"
320	14	J14a	09.5	TJ1 110	14'-0"	196'-0"
320	12	J15a	09.5	TJ1 110	15'-0"	180'-0"
Corridor	10	J7a	09.5	TJ1 110	7'-0"	70'-0"
Corridor	8	J8a	09.5	TJ1 110	8'-0"	72'-0"
Corridor	5	J11a	09.5	TJ1 110	11'-0"	55'-0"
Corridor	3	J13a	09.5	TJ1 110	13'-0"	39'-0"
P300	7	J12a	09.5	TJ1 110	12'-0"	84'-0"
P318	1	J5c	09.5	TJ1 220	5'-0"	5'-0"
P318	1	J10c	09.5	TJ1 230	10'-0"	10'-0"
P318	6	J12c	09.5	TJ1 230	12'-0"	72'-0"
P318	4	J13c	09.5	TJ1 230	13'-0"	52'-0"
P318	5	J14c	09.5	TJ1 230	14'-0"	70'-0"
P318	12	J15c	09.5	TJ1 230	15'-0"	180'-0"
P318	3	J16c	09.5	TJ1 230	16'-0"	48'-0"
P318	2	J17c	09.5	TJ1 230	17'-0"	51'-0"
P318	3	J18c	09.5	TJ1 230	18'-0"	54'-0"
P318	3	J19c	09.5	TJ1 230	19'-0"	57'-0"
P319	1	J4c	09.5	TJ1 230	4'-0"	4'-0"
P319	1	J8c	09.5	TJ1 230	8'-0"	8'-0"
P319	1	J12c	09.5	TJ1 230	12'-0"	12'-0"
P319	11	J13c	09.5	TJ1 230	13'-0"	143'-0"
P320	16	J13c	09.5	TJ1 230	13'-0"	208'-0"
					227	3371'-0"

9.5\" TJI 110

Unit	Quantity	Type	Depth	Series	Cut Length	Total
P220	1	J10a	09.5	TJ1 110	10'-0"	10'-0"
P220	4	J11a	09.5	TJ1 110	11'-0"	44'-0"
P220	1	J12a	09.5	TJ1 110	12'-0"	12'-0"
P220	5	J13a	09.5	TJ1 110	13'-0"	65'-0"
Stair A	5	J8a	09.5	TJ1 110	8'-0"	45'-0"
Stair B	5	J8a	09.5	TJ1 110	8'-0"	40'-0"
	972					11282'-0"

9.5\" TJI 230

Unit	Quantity	Type	Depth	Series	Cut Length	Total
313	16	J17c	09.5	TJ1 230	17'-0"	272'-0"
314	16	J17c	09.5	TJ1 230	17'-0"	272'-0"
315	14	J17c	09.5	TJ1 230	17'-0"	238'-0"
316	3	J14c	09.5	TJ1 230	14'-0"	42'-0"
316	23	J17c	09.5	TJ1 230	17'-0"	391'-0"
317	26	J17c	09.5	TJ1 230	17'-0"	442'-0"
318	1	J14c	09.5	TJ1 230	14'-0"	14'-0"
318	3	J16c	09.5	TJ1 230	16'-0"	48'-0"
320	4	J3c	09.5	TJ1 230	3'-0"	12'-0"
Corridor	8	J10c	09.5	TJ1 230	10'-0"	80'-0"
Corridor	7	J12c	09.5	TJ1 230	12'-0"	84'-0"
P300	7	J14c	09.5	TJ1 230	14'-0"	98'-0"
P301	3	J12c	09.5	TJ1 230	12'-0"	36'-0"
P301	7	J14c	09.5	TJ1 230	14'-0"	98'-0"
P301	18	J15c	09.5	TJ1 230	15'-0"	270'-0"
P318	1	J5c	09.5	TJ1 220	5'-0"	5'-0"
P318	1	J10c	09.5	TJ1 230	10'-0"	10'-0"
P318	6	J12c	09.5	TJ1 230	12'-0"	72'-0"
P318	4	J13c	09.5	TJ1 230	13'-0"	52'-0"
P318	5	J14c	09.5	TJ1 230	14'-0"	70'-0"
P318	12	J15c	09.5	TJ1 230	15'-0"	180'-0"
P318	3	J16c	09.5	TJ1 230	16'-0"	48'-0"
P318	2	J17c	09.5	TJ1 230	17'-0"	51'-0"
P318	3	J18c	09.5	TJ1 230	18'-0"	54'-0"
P318	3	J19c	09.5	TJ1 230	19'-0"	57'-0"
P319	1	J4c	09.5	TJ1 230	4'-0"	4'-0"
P319	1	J8c	09.5	TJ1 230	8'-0"	8'-0"
P319	1	J12c	09.5	TJ1 230	12'-0"	12'-0"
P319	11	J13c	09.5	TJ1 230	13'-0"	143'-0"
P320	16	J13c	09.5	TJ1 230	13'-0"	208'-0"
					227	3371'-0"

Parallam PSL Beams

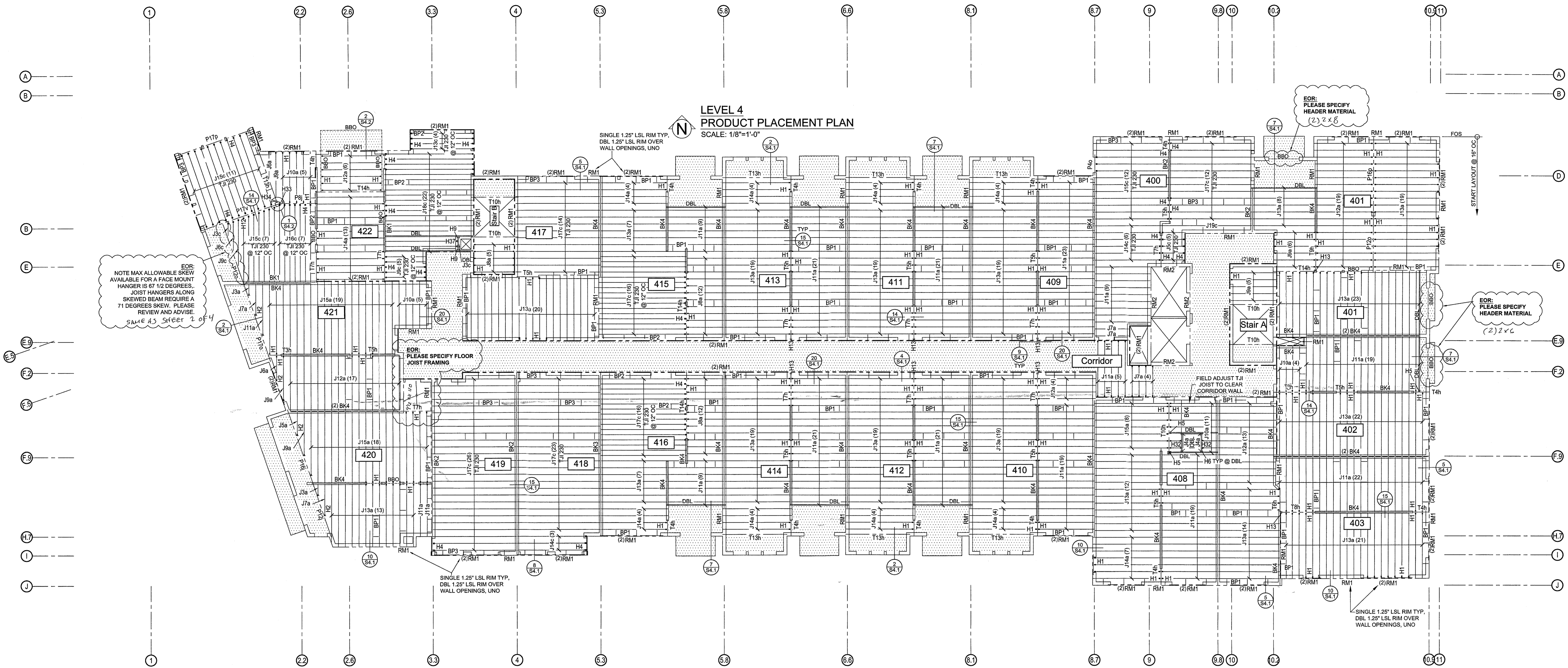
Unit	Quantity	Type	Width	Depth	Cut Length	Total
2	P12i	3.5	14	12'-0"	24'-0"	
2	P13i	3.5	14	13'-0"	26'-0"	
2	P14i	3.5	14	14'-0"	28'-0"	
1	P25i	3.5	14	25'-0"	25'-0"	
2	P4i	3.5	14	4'-0"	8'-0"	
1	P8i	3.5	14	8'-0"	8'-0"	
1	P7i	3.5	14	7'-0"	7'-0"	
1	P12j	3.5	9.5	12'-0"	12'-0"	
1	P14j	3.5	9.5	14'-0"	14'-0"	
1	P11p	5.25	11.875	11'-0"	11'-0"	
1	P12q	5.25	14	12'-0"	12'-0"	
1	P13q	5.25	14	13'-0"	13'-0"	
1	P14q	5.25	14	14'-0"	14'-0"	
1	P15q	5.25	14	15'-0"	15'-0"	
2	P19q	5.25	14	19'-0"	38'-0"	
1	P10q	5.25	9.5	10'-0"	10'-0"	
1	P11q	5.25	9.5	11'-0"	11'-0"	
2	P12q	5.25	9.5	12'-0"	24'-0"	
1	P13q	5.25	9.5	13'-0"	26'-0"	
1	P14q	5.25	9.5	14'-0"	28'-0"	
1	P15q	5.25	9.5	15'-0"	30'-0"	
1	P17q	5.25	9.5	17'-0"	34'-0"	
3	P9q	5.25	9.5	9'-0"	27'-0"	
1	P12u	7	11.875	12'-0"	12'-0"	
1	P17u	7	11.875	17'-0"	17'-0"	
1	P13v	7	14	13'-0"	13'-0"	
2	P14v	7	14	14'-0"	28'-0"	
2	P15v	7	14	15'-0"	30'-0"	
2	P19v	7	14	19'-0"	38'-0"	
1	P21v	7	14	21'-0"	21'-0"	
2	P8v	7	14	8'-0"	16'-0"	
1	P14x	7	18	14'-0"	14'-0"	
2	P12x	7	9.5	12'-0"	24'-0"	
1	P13x	7	9.5	13'-0"	13'-0"	
1	P16x	7	9.5	16'-0"	16'-0"	
1	P18x	7	9.5	18'-0"	18'-0"	
1	P8i	7	9.5	8'-0"	8'-0"	
52					669'-0"	

Timberstrand LSL Rimboard

Lineal Ft	Type	Width	Depth
62	BK1	1.25x9.5 LSL	9.625
2486	RM1	1.25x9.5 LSL	13.625
14	BK3	1.25x9.5 LSL	13.875
742	BK4	1.25x9.5 LSL	14.188
7	BK5	1.25x9.5 LSL	24
18	BK6	1.25x9.5 LSL	16

Hangers

Quantity	Tag	Model	Nailing			Web Stiffeners Required
			Top	Face	Member	
585	H10	IUS1.81/9.5	8-10d	2-N10		
4	H11	HUS1.81/10	30-16d	10-16d		
33	H12	LSU303				



MATERIAL LIST SCHEDULES FOR LEVEL 4

9.5\"/>

Unit	Quantity	Type	Depth	Series	Cut Length	Total
400	2	J7a	09.5	TJ110	7'-0"	14'-0"
400	9	J11a	09.5	TJ110	11'-0"	99'-0"
401	6	J9a	09.5	TJ110	9'-0"	54'-0"
401	19	J12a	09.5	TJ110	12'-0"	228'-0"
401	80	J13a	09.5	TJ110	13'-0"	850'-0"
402	4	J10a	09.5	TJ110	10'-0"	40'-0"
402	19	J11a	09.5	TJ110	11'-0"	209'-0"
402	22	J13a	09.5	TJ110	13'-0"	286'-0"
403	22	J11a	09.5	TJ110	11'-0"	242'-0"
403	13	J12a	09.5	TJ110	12'-0"	156'-0"
403	35	J13a	09.5	TJ110	13'-0"	455'-0"
408	4	J4a	09.5	TJ110	4'-0"	16'-0"
408	11	J10a	09.5	TJ110	10'-0"	110'-0"
408	19	J11a	09.5	TJ110	11'-0"	209'-0"
408	12	J13a	09.5	TJ110	13'-0"	156'-0"
408	7	J14a	09.5	TJ110	14'-0"	98'-0"
408	8	J15a	09.5	TJ110	15'-0"	120'-0"
409	23	J11a	09.5	TJ110	11'-0"	253'-0"
409	19	J13a	09.5	TJ110	13'-0"	247'-0"
409	4	J14a	09.5	TJ110	14'-0"	56'-0"
410	19	J11a	09.5	TJ110	11'-0"	209'-0"
410	4	J12a	09.5	TJ110	12'-0"	48'-0"
410	19	J13a	09.5	TJ110	13'-0"	247'-0"
410	4	J14a	09.5	TJ110	14'-0"	56'-0"
411	21	J11a	09.5	TJ110	11'-0"	231'-0"
411	19	J13a	09.5	TJ110	13'-0"	247'-0"
411	4	J14a	09.5	TJ110	14'-0"	56'-0"
412	21	J11a	09.5	TJ110	11'-0"	231'-0"
412	19	J13a	09.5	TJ110	13'-0"	247'-0"
412	4	J14a	09.5	TJ110	14'-0"	56'-0"
413	21	J11a	09.5	TJ110	11'-0"	231'-0"
413	19	J13a	09.5	TJ110	13'-0"	247'-0"
413	4	J14a	09.5	TJ110	14'-0"	56'-0"
414	21	J11a	09.5	TJ110	11'-0"	231'-0"
414	19	J13a	09.5	TJ110	13'-0"	247'-0"
414	4	J14a	09.5	TJ110	14'-0"	56'-0"
415	12	J8a	09.5	TJ110	8'-0"	96'-0"
415	9	J11a	09.5	TJ110	11'-0"	99'-0"
415	7	J13a	09.5	TJ110	13'-0"	91'-0"
415	4	J14a	09.5	TJ110	14'-0"	56'-0"
416	12	J8a	09.5	TJ110	8'-0"	96'-0"
416	9	J11a	09.5	TJ110	11'-0"	99'-0"
416	7	J13a	09.5	TJ110	13'-0"	91'-0"

9.5\"/>

Unit	Quantity	Type	Depth	Series	Cut Length	Total
416	4	J14a	09.5	TJ110	14'-0"	56'-0"
417	20	J13a	09.5	TJ110	13'-0"	260'-0"
420	1	J3a	09.5	TJ110	3'-0"	3'-0"
420	1	J5a	09.5	TJ110	5'-0"	5'-0"
420	1	J7a	09.5	TJ110	7'-0"	7'-0"
420	1	J9a	09.5	TJ110	9'-0"	9'-0"
420	2	J11a	09.5	TJ110	11'-0"	22'-0"
420	13	J13a	09.5	TJ110	13'-0"	169'-0"
420	18	J15a	09.5	TJ110	15'-0"	270'-0"
421	1	J3a	09.5	TJ110	3'-0"	3'-0"
421	1	J6a	09.5	TJ110	6'-0"	6'-0"
421	1	J7a	09.5	TJ110	7'-0"	7'-0"
421	1	J9a	09.5	TJ110	9'-0"	9'-0"
421	5	J10a	09.5	TJ110	10'-0"	50'-0"
421	1	J11a	09.5	TJ110	11'-0"	11'-0"
421	17	J12a	09.5	TJ110	12'-0"	204'-0"
421	19	J13a	09.5	TJ110	13'-0"	246'-0"
422	1	J6a	09.5	TJ110	6'-0"	6'-0"
422	1	J9a	09.5	TJ110	9'-0"	9'-0"
422	5	J10a	09.5	TJ110	10'-0"	50'-0"
422	6	J12a	09.5	TJ110	12'-0"	72'-0"
422	13	J14a	09.5	TJ110	14'-0"	182'-0"
Corridor	4	J7a	09.5	TJ110	7'-0"	28'-0"
Corridor	5	J11a	09.5	TJ110	11'-0"	55'-0"
Stair A	5	J9a	09.5	TJ110	9'-0"	45'-0"
Stair B	5	J8a	09.5	TJ110	8'-0"	40'-0"
	742					8885'-0"

9.5\"/>

Unit	Quantity	Type	Depth	Series	Cut Length	Total
400	5	J5c	09.5	TJ230	5'-0"	25'-0"
417	20	J13a	09.5	TJ230	14'-0"	84'-0"
420	12	J15c	09.5	TJ230	15'-0"	180'-0"
420	12	J17c	09.5	TJ230	17'-0"	204'-0"
420	1	J19c	09.5	TJ230	19'-0"	19'-0"
415	16	J17c	09.5	TJ230	17'-0"	272'-0"
416	16	J17c	09.5	TJ230	17'-0"	272'-0"
417	14	J17c	09.5	TJ230	17'-0"	238'-0"
418	3	J14c	09.5	TJ230	14'-0"	42'-0"
418	23	J17c	09.5	TJ230	17'-0"	391'-0"
419	26	J17c	09.5	TJ230	17'-0"	442'-0"
422	3	J3c	09.5	TJ230	3'-0"	9'-0"
422	6	J9c	09.5	TJ230	9'-0"	54'-0"
422	4	J13c	09.5	TJ230	13'-0"	52'-0"
422	18	J15c	09.5	TJ230	15'-0"	270'-0"
422	7	J16c	09.5	TJ230	16'-0"	112'-0"
422	22	J18c	09.5	TJ230	18'-0"	396'-0"
	195					3068'-0"

Parallam PSL Beams

Quantity	Type	Width	Depth	Cut Length	Total
1	P12j	3.5	9.5	12'-0"	12'-0"
1	P16j	3.5	9.5	16'-0"	16'-0"
1	P8j	3.5	9.5	8'-0"	8'-0"
1	P16p	5.25	11.875	16'-0"	16'-0"
1	P17p	5.25	11.875	17'-0"	17'-0"
2	P12o	5.25	9.5	12'-0"	24'-0"
1	P17o	5.25	9.5	17'-0"	17'-0"
1	P4o	5.25	9.5	4'-0"	4'-0"
1	P17v	7	14	17'-0"	17'-0"
10					131'-0"

TJI Blocking Panels

Quantity	Type	Series	Depth	Length
248	BP1	110	9.5	14.188
25	BP2	230	9.5	9.625
59	BP3	230	9.5	13.625

Rectangular Blocking

Quantity	Type	Description	Length
30	BK1	1.25x9.5 LSL	9.625
65	BK2	1.25x9.5 LSL	13.625
14	BK3	1.25x9.5 LSL	13.875
554	BK4	1.25x9.5 LSL	14.188

Timberstrand LSL Rimboard

Lineal Ft	Type	Width	Depth
1976	RM1	1.25	09.5
56	RM2	3.5	09.5

TimberStrand LSL Headers

Quantity	Type	Width	Depth	Cut Length	Total
1	T3h	3.5	09.5	3'-0"	3'-0"
13	T4h	3.5	09.5	4'-0"	52'-0"
11	T5h	3.5	09.5	5'-0"	55'-0"
1	T6h	3.5	09.5	6'-0"	6'-0"
10	T7h	3.5	09.5	7'-0"	70'-0"
2	T8h	3.5	09.5	8'-0"	16'-0"
1	T9h	3.5	09.5	9'-0"	9'-0"
5	T10h	3.5	09.5	10'-0"	50'-0"
7	T13h	3.5	09.5	13'-0"	91'-0"
4	T14h	3.5	09.5	14'-0"	40'-0"
55					408'-0"

Hangers

Quantity	Tag	Model	Nailing			Web Stiffeners Required
			Top	Face	Member	
416	H1	IUS1.819.5		8-N10	2-N10	
11	H12	LSUS35		10-10d	7-N10	
1	H13	HHUS410		30-10d	10-10d	
7	H13	HHUS410		30-16d	10-16d	
10	H2	W9 X SKR71	2-16d		2-N10	
4	H32	ITS1.819.5	4-N10	2-N10		
1	H33	GLTV3.59X SKL190SR	4-16d	6-16d	6-16d	
1	H34	HUC0410-SDS		12-SDS1/4x2.5	6-SDS1/4x2.5	
2	H37	ITS2.379.5	4-N10	2-N10		
116	H4	IUS3.759.5		8-10d		
3	H5	IUS3.569.5		8-10d		
4	H6	ITS3.569.5	4-N10	2-N10		
2	H9	MT359.5-2	4-16d	4-16d	2-N10	

FIELD INSTALL WEB STIFFENERS BY OTHERS AT HANGER LOCATIONS NOTED. TYP. AT ALL FLOORS

GENERAL NOTES:

- TJI JOISTS, PARALLAM, TIMBERSTRAND AND MICROLAM BEAMS MUST BE PROTECTED FROM THE WEATHER AT ALL TIMES. ALSO PROTECT NON-TREATED EWP FROM DIRECT CONTACT WITH CONCRETE.
- REFER TO THE STRUCTURAL DRAWINGS FOR ALL DETAIL CALL-OUTS. TYPICAL ALSO REFER TO THE COVER SHEET FOR TYPICAL LEVEL ASSEMBLY DETAILS (SPECIFICATION IN THE STRUCTURAL DOCUMENTS SHALL SUPERSEDE THE DETAILS ON THE COVER SHEET WHERE ANY CONFLICT OCCURS).
- CONTRACTOR TO FIELD CUT TIMBERSTRAND BLOCKING AS REQUIRED. REFER TO STRUCTURAL DETAILS FOR MORE INFO.
- CONTRACTOR TO FIELD CUT TJI JOISTS AS REQUIRED AROUND MECHANICAL CHASE OPENINGS TYPICAL.
- STANDARD G90 ZINC COATED HANGERS MUST BE ISOLATED FROM TREATED PLATES ETC. WITH VAPOR BARRIER (BY OTHERS). SEE HANGER MANUFACTURER RECOMMENDATIONS. NAILS INTO TREATED PLATE MUST BE HOT-DIPPED GALVANIZED (PER ASTM A153).
- ALL REQUIRED NAILS FOR HANGERS ARE BY OTHERS AND NOT SUPPLIED AS PART OF THIS SUBMITTAL. TYPICAL (SDS SCREWS ARE SUPPLIED FOR HANGERS REQUIRING THEM)
- HANGERS TO BE INSTALLED PER SIMPSON STRONG-TIE INSTALLATION REQUIREMENTS. REFER TO CURRENT SIMPSON STRONG-TIE WOOD CONSTRUCTION CONNECTORS CATALOG.
- LEVEL ASSUMES THAT LOADS FROM PIPE AND SPRINKLER LINE LESS THAN 3" DIA. ARE INCLUDED IN SPECIFIED UNIFORM DEAD LOAD AND HAVE BEEN CONSIDERED IN THE DESIGN OF LEVEL PRODUCTS BY THE DESIGN PROFESSIONAL OF RECORD.
- WEB STIFFENERS AND FILLERS.
- WEB STIFFENERS AND FILLERS ARE BY OTHERS UNO.
- WEB STIFFENERS AND FILLERS ARE NOT REQUIRED EXCEPT WHERE NOTED ON LOCATION PLAN OR AS SHOWN PER EOR ON REFERENCED DETAILS OR STRUCTURAL DOCUMENTS.
- IF WEB STIFFENERS ARE REQUIRED FOR HANGERS, THE HANGER SCHEDULE WILL HAVE A COLUMN WHICH WILL INDICATE WHICH HANGERS REQUIRE THEM.

FRAMING BY OTHERS

PRELIMINARY DRAWING: NOT FOR CONSTRUCTION

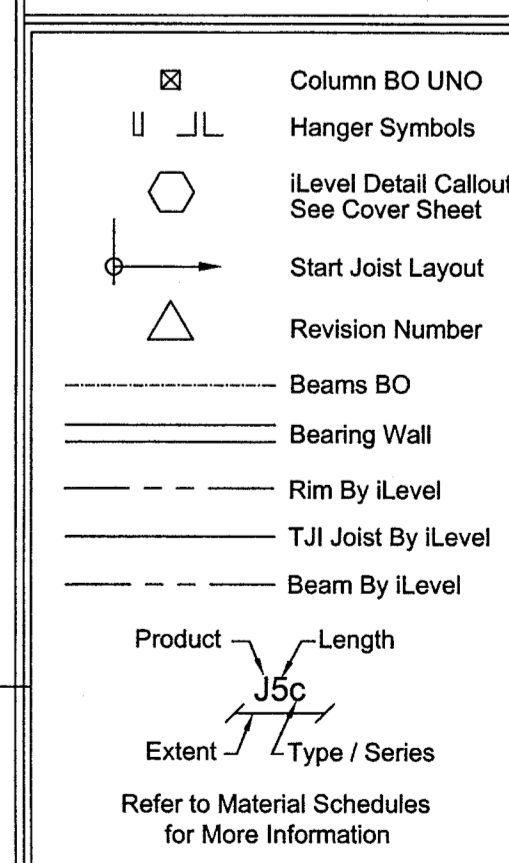
THESE PRODUCT PLACEMENT DRAWINGS HAVE BEEN PREPARED BASED ON THE INFORMATION PROVIDED IN THE FOLLOWING CONSTRUCTION DOCUMENTS:
 ARCHITECTS PLANS DATED: 09-04-09 SHEET NO. A1.6
 STRUCTURAL PLANS DATED: 09-04-09 SHEET NO. S1.6
 IF DRAWING DATES ABOVE ARE NOT THE MOST CURRENT PLEASE PROVIDE THE MOST RECENT DOCUMENTS.
 RETURN 1 SET OF REDLINED MARK-UPS TO:
 Northwest Division-Technical Support
 720 S. 333rd Street, Suite 100
 Federal Way, Wa. 98003

ALL CLOSED ENDS OF PIPE OR DUCT MUST BE PROTECTED FROM THE WEATHER AS NOTED IN THE STRUCTURAL DOCUMENTS. REFER TO THE STRUCTURAL DOCUMENTS FOR MORE INFORMATION.

PRODUCT TYPE AND SERIES

TJI Series	Type	DEPTH (SERIES)	TimberStrand® LSL	Parallam® PSL
a	9 1/2	110	a 1 3/4 9 1/2	a 1 3/4 9 1/2
b	9 1/2	210	b 1 3/4 11 7/8	b 1 3/4 11 7/8
c	9 1/2	230	c 1 3/4 14	c 1 3/4 14
d	11 7/8	110	d 1 3/4 16	d 1 3/4 16
e	11 7/8	210	e 1 3/4 18	e 1 3/4 18
f	11 7/8	230	f 1 3/4 21	f 1 3/4 21
g	11 7/8	360	g 1 3/4 27	g 1 3/4 27
h	11 7/8	560	h 1 3/4 42	h 1 3/4 42
i	14	110	i 1 3/4 12	i 1 3/4 12
j	14	210	j 1 3/4 14	j 1 3/4 14
k	14	230	k 1 3/4 16	k 1 3/4 16
l	14	360	l 1 3/4 21	l 1 3/4 21
m	14	560	m 1 3/4 27	m 1 3/4 27
n	16	210	n 1 1/4 14	n 1 1/4 14
o	16	360	o 1 1/4 18	o 1 1/4 18
p	16	560	p 1 1/4 27	p 1 1/4 27
q	16	560	q 1 1/4 27	q 1 1/4 27
r	16	560	r 1 1/4 27	r 1 1/4 27
s	16	560	s 1 1/4 27	s 1 1/4 27
t	16	560	t 1 1/4 27	t 1 1/4 27
u	16	560	u 1 1/4 27	u 1 1/4 27
v	16	560	v 1 1/4 27	v 1 1/4 27
w	16	560	w 1 1/4 27	w 1 1/4 27
x	16	560	x 1 1/4 27	x 1 1/4 27
y	16	560	y 1 1/4 27	y 1 1/4 27
z	16	560	z 1 1/4 27	z 1 1/4 27

LEGEND



ABBREVIATION TERM

ADD	ADDITIONAL
AFC	APPROVED FOR CONSTRUCTION
AOR	ARCHITECT OF RECORD
BBO	BEAM BY OTHERS
BK	SOLID BLOCKING
BL	TJI BLOCKING
CL	CENTRELINE
DB	DROP BEAM
DBL	DOUBLE
EOR	ENGINEER OF RECORD
FB	FLUSH BEAM
FBO	FRAMING BY OTHERS
FOC	FACE OF CONCRETE
FOS	FACE OF

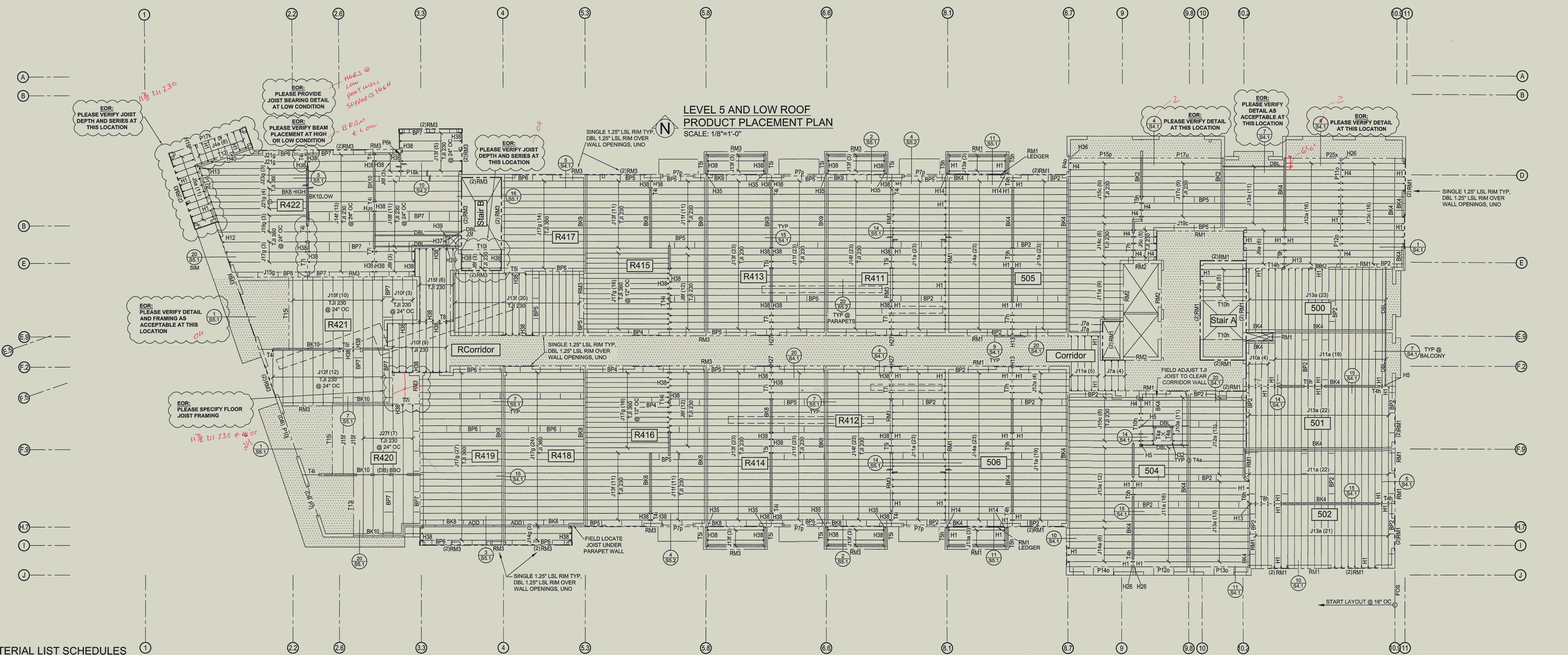
iLevel prepared these placement plans for the specification of Level products based on project information provided to us. This service is solely intended for product application assurance, and is not intended to circumvent the need for a design professional as determined by the building codes. The designer of record and/or builder/framer is responsible to assure these drawings are compatible with the overall project.

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101 Kirkland Avenue
Kirkland, WA

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DATE: 05 JAN 2010



MATERIAL LIST SCHEDULES FOR LEVEL 5 AND LOW ROOF

9.5" TJI 110

Unit	Quantity	Type	Depth	Series	Cut Length	Total
500	6	J9a	09.5	TJI 110	9'-0"	54'-0"
500	16	J12a	09.5	TJI 110	12'-0"	192'-0"
500	34	J13a	09.5	TJI 110	13'-0"	442'-0"
501	4	J10a	09.5	TJI 110	10'-0"	40'-0"
501	19	J11a	09.5	TJI 110	11'-0"	209'-0"
501	22	J13a	09.5	TJI 110	13'-0"	286'-0"
502	22	J11a	09.5	TJI 110	11'-0"	242'-0"
502	13	J12a	09.5	TJI 110	12'-0"	156'-0"
502	34	J13a	09.5	TJI 110	13'-0"	442'-0"
504	11	J10a	09.5	TJI 110	10'-0"	110'-0"
504	18	J11a	09.5	TJI 110	11'-0"	198'-0"
504	12	J13a	09.5	TJI 110	13'-0"	156'-0"
504	6	J14a	09.5	TJI 110	14'-0"	84'-0"
505	2	J7a	09.5	TJI 110	7'-0"	14'-0"
505	32	J11a	09.5	TJI 110	11'-0"	352'-0"
505	3	J13a	09.5	TJI 110	13'-0"	39'-0"
505	23	J14a	09.5	TJI 110	14'-0"	322'-0"
506	19	J11a	09.5	TJI 110	11'-0"	209'-0"
506	4	J12a	09.5	TJI 110	12'-0"	48'-0"
506	3	J13a	09.5	TJI 110	13'-0"	39'-0"
506	23	J14a	09.5	TJI 110	14'-0"	322'-0"
Corridor	4	J7a	09.5	TJI 110	7'-0"	28'-0"
Corridor	5	J11a	09.5	TJI 110	11'-0"	55'-0"
R411	23	J11a	09.5	TJI 110	11'-0"	253'-0"
R412	23	J11a	09.5	TJI 110	11'-0"	253'-0"
R422	8	J4a	09.5	TJI 110	4'-0"	32'-0"
R422	11	J5a	09.5	TJI 110	5'-0"	55'-0"
Stair A	5	J9a	09.5	TJI 110	9'-0"	45'-0"
405						4677'-0"

11.875" TJI 230

Unit	Quantity	Type	Depth	Series	Cut Length	Total
R411	3	J13f	11.875	TJI 230	13'-0"	39'-0"
R411	23	J14f	11.875	TJI 230	14'-0"	322'-0"
R412	3	J13f	11.875	TJI 230	13'-0"	39'-0"
R412	23	J14f	11.875	TJI 230	14'-0"	322'-0"
R413	23	J11f	11.875	TJI 230	11'-0"	253'-0"
R413	28	J13f	11.875	TJI 230	13'-0"	338'-0"
R414	23	J11f	11.875	TJI 230	11'-0"	253'-0"
R414	28	J13f	11.875	TJI 230	13'-0"	338'-0"
R415	12	J8f	11.875	TJI 230	8'-0"	96'-0"
R415	11	J11f	11.875	TJI 230	11'-0"	121'-0"
R415	11	J13f	11.875	TJI 230	13'-0"	143'-0"
R416	12	J8f	11.875	TJI 230	8'-0"	96'-0"
R416	11	J11f	11.875	TJI 230	11'-0"	121'-0"
R416	11	J13f	11.875	TJI 230	13'-0"	143'-0"
R417	20	J13f	11.875	TJI 230	13'-0"	260'-0"
R420	2	J15f	11.875	TJI 230	15'-0"	30'-0"
R420	6	J27f	11.875	TJI 230	27'-0"	162'-0"
R421	3	J10f	11.875	TJI 230	10'-0"	30'-0"
R421	12	J12f	11.875	TJI 230	12'-0"	144'-0"
R421	10	J15f	11.875	TJI 230	15'-0"	150'-0"
R422	2	J3f	11.875	TJI 230	3'-0"	6'-0"
R422	3	J6f	11.875	TJI 230	6'-0"	18'-0"
R422	3	J8f	11.875	TJI 230	8'-0"	24'-0"
R422	5	J13f	11.875	TJI 230	13'-0"	65'-0"
R422	13	J14f	11.875	TJI 230	14'-0"	182'-0"
R422	11	J18f	11.875	TJI 230	18'-0"	198'-0"
RCorridor	9	J10f	11.875	TJI 230	10'-0"	90'-0"
RCorridor	6	J15f	11.875	TJI 230	15'-0"	90'-0"
Stair B	3	J8f	11.875	TJI 230	8'-0"	24'-0"
4099'						4099'-0"

Parallam PSL Beams

Quantity	Type	Width	Depth	Cut Length	Total
1	P10j	3.5	9.5	10'-0"	10'-0"
1	P7j	3.5	9.5	7'-0"	7'-0"
1	P17k	3.5	11.875	17'-0"	17'-0"
1	P18k	3.5	11.875	18'-0"	18'-0"
1	P6k	3.5	11.875	6'-0"	6'-0"
1	P11o	5.25	9.5	11'-0"	11'-0"
2	P12o	5.25	9.5	12'-0"	24'-0"
1	P13o	5.25	9.5	13'-0"	13'-0"
1	P14o	5.25	9.5	14'-0"	14'-0"
1	P4o	5.25	9.5	4'-0"	4'-0"
1	P15o	5.25	11.875	15'-0"	15'-0"
1	P17p	5.25	11.875	17'-0"	17'-0"
6	P7p	5.25	11.875	7'-0"	42'-0"
1	P25x	7	18	25'-0"	25'-0"
1	P17u	7	11.875	17'-0"	17'-0"
21					240'-0"

TJI Blocking Panels

Quantity	Type	Series	Depth	Length
112	BP2	110	9.5	14.183
10	BP4	360	11.875	9.625
84	BP5	230	11.875	13.625
40	BP6	360	11.875	13.625
51	BP7	230	11.875	21.625
4	BP8	360	11.875	21.625

Rectangular Blocking

Quantity	Type	Description	Length
1	BK1	1.25x9.5 LSL	9.625
47	BK10	1.25x11.875 LSL	21.625
19	BK2	1.25x9.5 LSL	13.625
267	BK4	1.25x9.5 LSL	14.188
10	BK5	1.25x9.5 LSL	24
4	BK7	1.25x11.875 LSL	9.625
164	BK8	1.25x11.875 LSL	13.625
83	BK9	1.25x11.875 LSL	14.188

Hangers

Quantity	Tag	Model	Nailing			Web Stiffeners Required
			Top	Face	Member	
332	H1	IUS1.81/9.5		8-10d		
12	H12	LSSU105		10-10d	7#N10	
5	H13	HHUS410		30-16d	10-16d	
4	H14	HLU410		14-N10	6-10d	
1	H19	HHUS5.50/10		46-10d	16-10d	
3	H26	HGUS5.50/10		46-10d	16-10d	
4	H27	HGUS410		46-10d	16-10d	
4	H32	ITS1.81/9.5	4-N10	2-N10		
8	H35	HU412		16-N10	6-10d	
1	H36	HGLTV5.511	6-16d	12-16d	6-16d	
1	H37	ITS2.37/11.88	4-N10	2-N10		
247	H38	IUS2.37/11.88		10-10d		
2	H39	MITS3511.88-2	4-N10	4-N10	2-N10	
48	H4	IUS2.37/9.5		8-d10	2-N10	
2	H40	W3511.88 X SKR71	2-16d	2-N10		
3	H5	IUS3.56/9.5		8-10d	2-N10	

* INVERTED HANGER

FIELD INSTALL WEB STIFFENERS BY OTHERS AT HANGER LOCATIONS NOTED. TYP. AT ALL FLOORS

Timberstrand LSL Rimboard

Lineal Ft	Type	Width	Depth
788	RM1	1.25	09.5
56	RM2	3.5	09.5
1224	RM3	1.25	11.88

9.5" TJI 230

Unit	Quantity	Type	Depth	Series	Cut Length	Total
500	16	J13c	09.5	TJI 230	13'-0"	208'-0"
500	9	J17c	09.5	TJI 230	17'-0"	153'-0"
500	1	J19c	09.5	TJI 230	19'-0"	19'-0"
504	8	J15c	09.5	TJI 230	15'-0"	120'-0"
505	5	J5c	09.5	TJI 230	5'-0"	25'-0"
505	6	J14c	09.5	TJI 230	14'-0"	84'-0"
505	9	J15c	09.5	TJI 230	15'-0"	135'-0"
54						744'-0"

11.875" TJI 360

Unit	Quantity	Type	Depth	Series	Cut Length	Total
R415	16	J17g	11.875	TJI 360	17'-0"	272'-0"
R416	16	J17g	11.875	TJI 360	17'-0"	272'-0"
R417	14	J17g	11.875	TJI 360	17'-0"	238'-0"
R418	3	J14g	11.875	TJI 360	14'-0"	42'-0"
R418	24	J17g	11.875	TJI 360	17'-0"	408'-0"
R419	27	J17g	11.875	TJI 360	17'-0"	459'-0"
R422	1	J15g	11.875	TJI 360	15'-0"	15'-0"
R422	3	J17g	11.875	TJI 360	17'-0"	51'-0"
R422	3	J19g	11.875	TJI 360	19'-0"	57'-0"
R422	6	J21g	11.875	TJI 360	21'-0"	126'-0"
R422	3	J23g	11.875	TJI 360	23'-0"	69'-0"
2009'						2009'-0"

GENERAL NOTES:

- TJI JOISTS, PARALLAM, TIMBERSTRAND AND MICROLAM BEAMS MUST BE PROTECTED FROM THE WEATHER AT ALL TIMES. ALSO PROTECT NON-TREATED W/P FROM DIRECT CONTACT WITH CONCRETE.
- REFER TO THE STRUCTURAL DRAWINGS FOR ALL DETAIL CALL-OUTS, TYPICAL, ALSO REFER TO THE COVER SHEET FOR TYPICAL LEVEL ASSEMBLY DETAILS (SPECIFICATION IN THE STRUCTURAL DOCUMENTS SHALL SUPERSEDE THE DETAILS ON THE COVER SHEET WHERE ANY CONFLICT OCCURS).
- CONTRACTOR TO FIELD CUT TIMBERSTRAND BLOCKING AS REQUIRED. REFER TO STRUCTURAL DETAILS FOR MORE INFO.
- CONTRACTOR TO FIELD CUT TJI JOISTS AS REQUIRED AROUND MECHANICAL CHASE OPENINGS TYP.
- STANDARD G90 ZINC COATED HANGERS MUST BE ISOLATED FROM TREATED PLATES ETC. WITH VAPOR BARRIER (BY OTHERS). SEE HANGER MANUFACTURER RECOMMENDATIONS. NAILS INTO TREATED PLATE MUST BE HOT-DIPPED GALVANIZED (PER ASTM A153).
- ALL REQUIRED NAILS FOR HANGERS ARE BY OTHERS AND NOT SUPPLIED AS PART OF THIS SUBMITTAL. TYPICAL (SDS SCREWS ARE SUPPLIED FOR HANGERS REQUIRING THEM)
- HANGERS TO BE INSTALLED PER SIMPSON STRONG-TIE INSTALLATION REQUIREMENTS. REFER TO CURRENT SIMPSON STRONG-TIE WOOD CONSTRUCTION CONNECTORS CATALOG.
- IF WEB STIFFENERS ARE REQUIRED FOR HANGERS, THE HANGER SCHEDULE WILL HAVE A COLUMN WHICH WILL INDICATE WHICH HANGERS REQUIRE THEM.

PRELIMINARY DRAWING: NOT FOR CONSTRUCTION

THESE PRODUCT PLACEMENT DRAWINGS HAVE BEEN PREPARED BASED ON THE INFORMATION PROVIDED IN THE FOLLOWING CONSTRUCTION DOCUMENTS:
ARCHITECTS PLANS DATED: 09-04-09 SHEET NO. A17.TRCP & A.17
STRUCTURAL PLANS DATED: 09-04-09 SHEET NO. S1.7F
IF DRAWING DATES ABOVE ARE NOT THE MOST CURRENT PLEASE PROVIDE THE MOST RECENT DOCUMENTS.
RETURN 1 SET OF REDLINED MARK-UPS TO:
Northwest Division-Technical Support
720 S. 333rd Street, Suite 100
Federal Way, Wa. 98003

ALL CLEARANCES ON THIS SHEET MUST BE MAINTAINED UNLESS OTHERWISE NOTED. NO BEARING WILL BE ALLOWED.

LEGEND

□	Column BO UNO
○	Hanger Symbols
○	iLevel Detail Callout See Cover Sheet
○	Start Joist Layout
○	Revision Number
—	Beams BO
—	Bearing Wall
—	Rim Joist By iLevel
—	TJI Joist By iLevel
—	Beam By iLevel
—	Product Length
—	Extent / Type / Series

Refer to Material Schedules for More Information

PRODUCT TYPE AND SERIES

J/TI TYPE	DEPTH	SERIES	TimberStrand® LSL	Parallam® PSL
a	9 1/2	110	a	1 3/4
b	9 1/2	210	b	1 3/4
c	9 1/2	230	c	1 3/4
d	11 7/8	110	d	1 3/4
e	11 7/8	210	e	1 3/4
f	11 7/8	230	f	1 3/4
g	11 7/8	360	g	1 3/4
h	11 7/8	560	h	1 3/4
i	14	110	i	1 3/4
j	14	210	j	1 3/4
k	14	230	k	1 3/4
l	14	360	l	1 3/4
m	14	560	m	1 3/4
n	16	210	n	1 3/4
o	16	360	o	1 3/4
p	16	560	p	1 3/4
q	16	560	q	1 3/4
r	16	560	r	1 3/4
s	16	560	s	1 3/4
t	16	560	t	1 3/4
u	16	560	u	1 3/4
v	16	560	v	1 3/4
w	16	560	w	1 3/4
x	16	560	x	1 3/4
y	16	560	y	1 3/4
z	16	560	z	1 3/4

ABBREVIATION TERM

ADD	ADDITIONAL APPROVED FOR CONSTRUCTION
AOR	ARCHITECT OF RECORD
BBO	BEAM BY OTHERS
CB	SOLID BLOCKING
CL	CENTERLINE
DBL	DROP BEAM DOUBLE
EOR	ENGINEER OF RECORD
FB	FLUSH BEAM
FBO	FRAMING BY OTHERS
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
GC	GENERAL CONTRACTOR
H	HANGER TYPE
HBO	HEADER BY OTHERS
OCA	ON CENTER (SPACING)
OC	ON CENTER (SPACING)
RM (#)	

ASH/BUDG
OK 2-1-10

REVISION
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