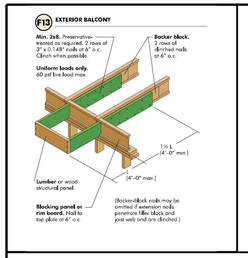
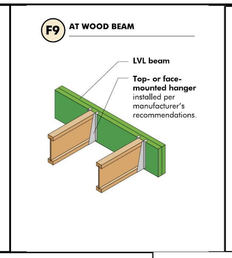
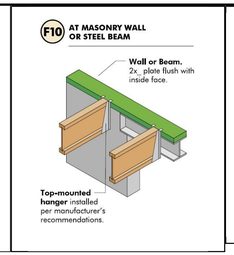
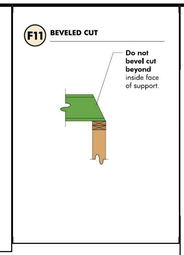


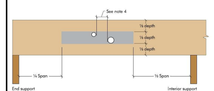






HOLE DETAILS

HOLES IN PWLVL BEAMS

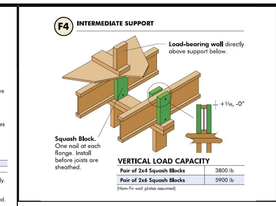


Notes:

1. This detail applies only to uniformly loaded, simple and multiple span beams. Cantilevered beams and beams that carry concentrated loads are outside the scope of this detail.
2. Square and rectangular holes are not permitted.
3. Round holes may be drilled or cut with a hole saw anywhere within the shaded area of the beam.
4. The horizontal distance between adjacent holes must be at least two times the size of the larger hole. This restriction also applies to the location of access holes relative to ball holes in multi-ply beams.
5. Do not drill more than three access holes in any four foot long section of beam.
6. The maximum round hole diameter permitted is:

PWLVL Beam Depth.	14"	16"	18" to 24".
Maximum Hole Diameter.	3"	4"	5"

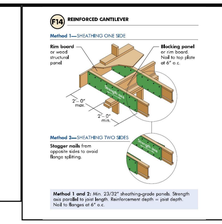
7. These limitations apply to holes drilled for plumbing or wiring access only. The size and location of holes drilled for fasteners are governed by the provisions of the National Design Specification® for Wood Construction.
8. Beams deflect under load. Size holes to provide clearance where required.

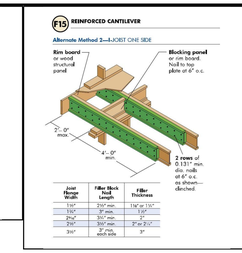


VERTICAL LOAD CAPACITY

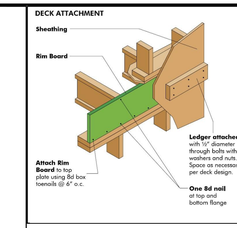
Pair of 2x4 Squash Blocks	3800 lb
Pair of 2x6 Squash Blocks	5900 lb

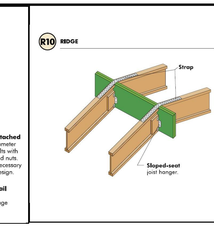
(Hem-Fir wall plates assumed)





Joist Flange Width	Filler Block Nail Length	Filler Thickness
1 1/16"	2" max.	1 1/16" or 1 1/8"
1 5/16"	3" max.	1 1/4"
2 5/16"	3½" max.	2"
2 5/8"	3½" max.	2" or 2 1/4"
3½"	3" max. each side	3"





1. Web stiffeners are required for high reactions at supports. Refer to ESR-1225.
2. Web stiffeners are required under concentrated loads applied to the tops of joists between supports, or along cantilevers beyond the support, when the concentrated load exceeds 1500 pounds.

NUMBER OF WEB STIFFENER NAILS REQUIRED

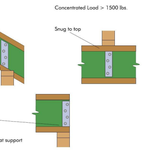
Joist Depth	24" & 22"	20" & 18"	16" & Less
Intermediate Support	10	8	4
All Other Conditions	8	6	4

WEB STIFFENER SIZE REQUIRED

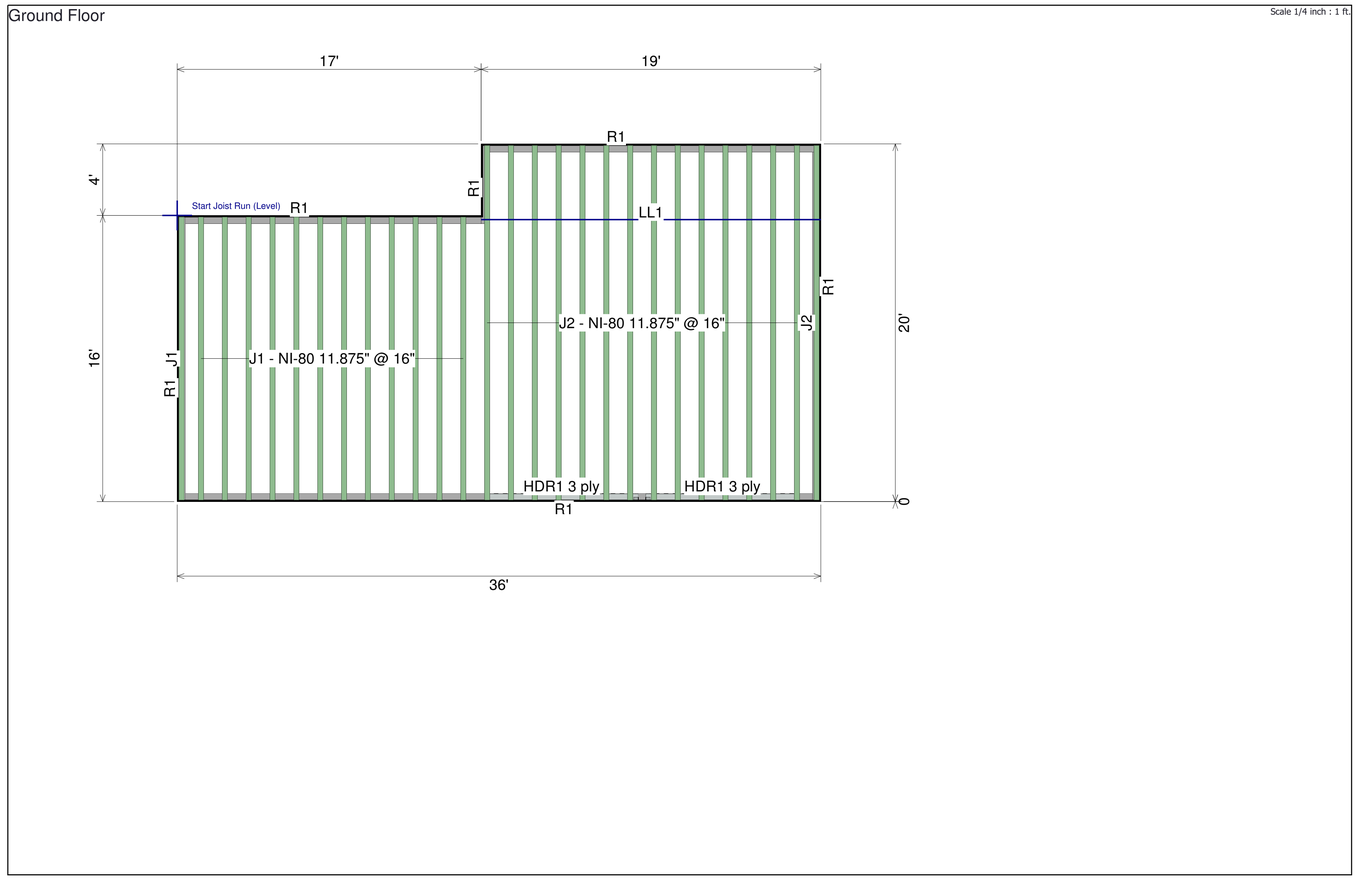
Flange Width	Minimum Dimensions		
	Web Stiffeners		Nails
	Thickness	Width	
1 1/16"	1/4"	2 1/4"	2 1/2" x 0.131"
1 5/16"	1/4"	2 1/4"	2 1/2" x 0.131"
2 1/16"	1/4"	2 1/4"	2 1/2" x 0.131"
2 5/16"	1/4"	2 1/4"	2 1/2" x 0.131"
2 5/8"	3/8"	2 1/4"	2 1/2" x 0.131"
3 1/2"	1 1/2"	3 1/2"	2 1/2" x 0.131"

Web stiffener length is approximately 1/4" less than the clear distance between flanges.

2 1/4"	2 1/2" min.	2"
2 1/2"	3 1/2" min.	2" or 2 1/4"
3 1/2"	3" min. each side	3"



1. Plan Design Notes:
2. Warning: Failure to follow these notes could cause property damage or personal injury.
3. The components represented on this drawing, are designed at the request and specification of the customer as an individual building component, in a vertical plane, to be incorporated into the building design at the specification of the building designer.
4. Provide copies of placement drawings and designs to the structures designer and construction supervisor.
5. This drawing reflects our best interpretation of the plans and specifications provided to us. These drawings supplement , but do not supercede the structural design drawings for the building. The structural designer shall coordinate the placement plans with the Project Plans.
6. Please check all dimensions and materials prior to ordering. Ordering of materials based on the attached materials list constitutes review and acceptance of the placement plans.
7. Handle and install products in accordance with APA Installation Guide, and Simpson Hangers Installation Guide.
8. Building Designer is responsible to insure that the loading shown on drawings is applicable to building and use.
9. The Engineered Wood Product designs are designed for gravity loads only. The Structural designer is responsible for lateral load accommodations, as required, from framing to building foundation.
10. The contractor or structural designer is responsible to insure that load bearing walls and foundations are adequate to support the loads imposed by the framing. Design of columns, walls, and fastening is by the structures designer.
11. All roof loads assumed to be supported by exterior walls only. I-Joist are not stable until completely installed and will not carry any load until braced and sheathed.
12. Do not stack construction materials on the floor or roof that induce loading on components greater than designated loads.
13. All flush beams noted as G, all drop beams noted as B.
14. Except for cutting to length, do not cut, drill, or notch I-Joist flanges.
15. Never install Engineered Wood products where they will be permanently exposed to weather, masonry, or concrete.
16. As an aid to the framer, this drawing may identify framing, headers, and hangers that have been specified by others.
17. This drawing is to be used only with the products specified on it.



Ground Floor

LVL (Dropped)

Qty	Label	Description	Width	Depth	Length
6	HDR1	2.0E CP-LAM	1.75	9.25	10

I Joist (Flush)

Qty	Label	Description	Width	Depth	Length
13	J1	NI-80	3.5	11.875	16
15	J2	NI-80	3.5	11.875	20

Rim Board

Qty	Label	Description	Thickne...	Depth	Length
10	R1	APA EWS Rim Board Plus 1.125 X 11.875	1.125	11.875	12

Blocking

Qty	Label	Description	Width	Depth	Length

Hanger

Qty	Label	Description	Girder	Supported Mbr.

Legend

- EXT2X6
- Wall Opening
- APA EWS Rim Board Plus 1.125 X 11.875
- NI-80 11.875
- 2.0E CP-LAM 1.75 X 9.25 (Dropped)

Coastal Forest Products
34 Dunklee Rd
Bow, NH 03304
603-623-4100

Layout Name
14-0420

Description

Sales Rep

Builder's Project

Framing Plan Revisions

1. _____ Date_____
2. _____ Date_____
3. _____ Date_____
4. _____ Date_____
5. _____ Date_____
6. _____ Date_____
7. _____ Date_____
8. _____ Date_____

Ground Floor

Design Method	ASD
Building Code	IBC/IRC
Floor	
Loads	
Live	40
Dead	10
Deflection Joist	
LL Span L/	480
TL Span L/	360
LL Cant L/	240
TL Cant L/	180
Deflection Girder	
LL Span L/	360
TL Span L/	240
LL Cant L/	180
TL Cant L/	180
Decking	
Deck	SPF Plywood
Fastener	Nailed & Glued
Thickness	3/4"

Client

Shipping

Created
4/9/2014 12:00:00 AM

Designer
FPG

Engineer

Project

Powered by iStruct™ 13.6.095

This layout is to be used as an installation guide only. It is meant to be used in conjunction with the architectural and structural drawings, not to replace them