

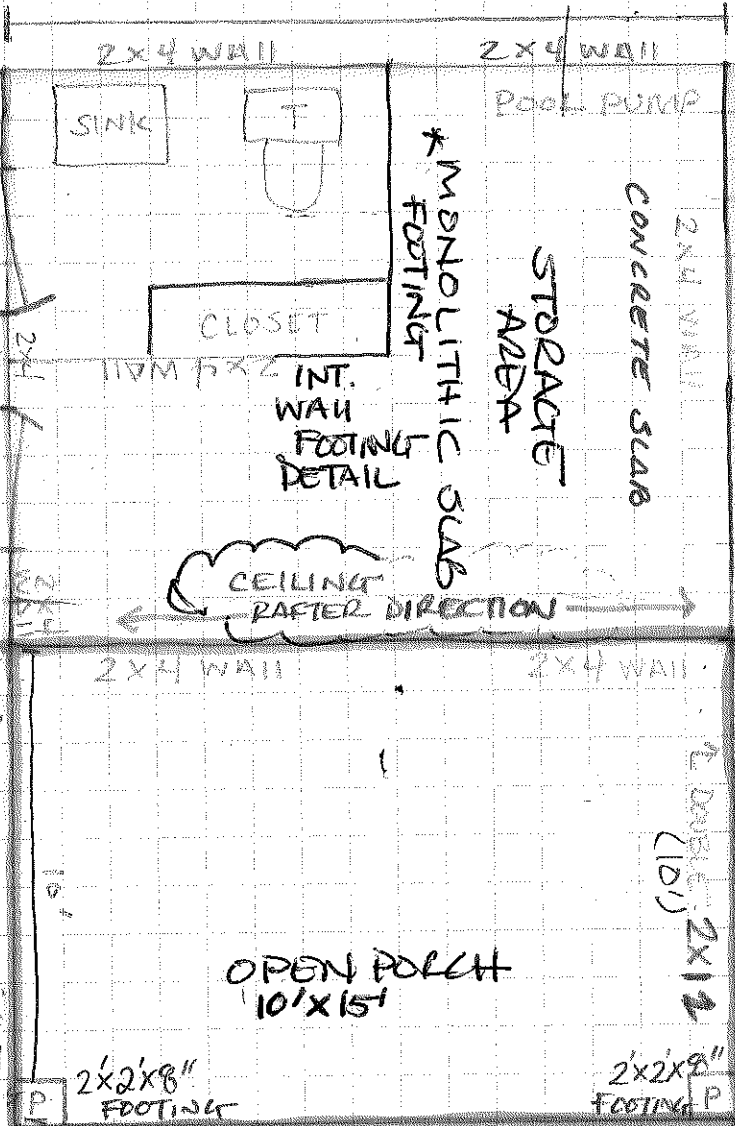
BACK OF HOUSE

BACK OF BUILDING

RIGHT POOL SIDE

LEFT SIDE

22'1"



\*SPACE NOT HEATED

37.5 SF TRIM AREA

SEE FOOTING DETAIL 6x6 POST TREATED

SEE FOOTING DETAIL

DIRECTION OF RAFTERS & CEILING (15' SIDE TO SIDE) LEFT RIGHT

NOTES POOL HOUSE 15'x22'

SCALE 1 BLOCK = 1 FOOT

ROOF PITCH 4/12

WALLS 2x4x9' TALL

RAFTER 2x8 (16" o/c)

CEILING 2x8

ANCHOR BOLT SPACE 6' ON CENTER / 12" ON CORNER

2x4 TREATED AND SEAL

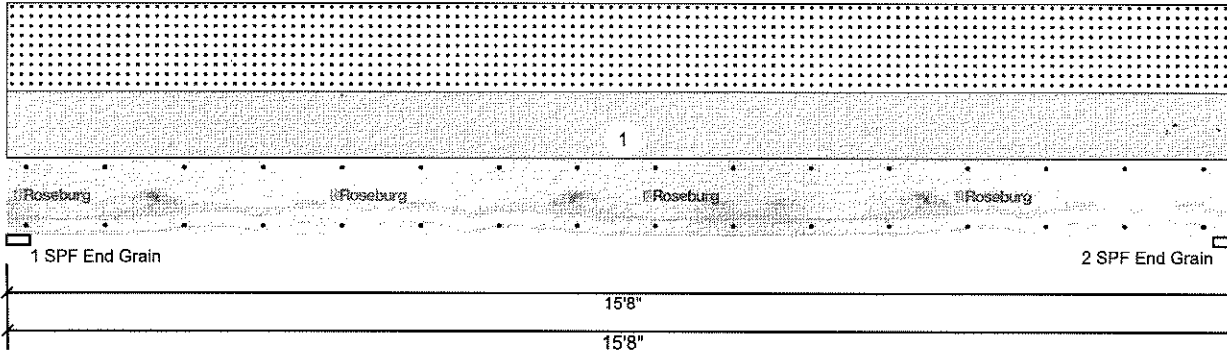
FRONT OF BUILDING

LONNIE & RUTH SCOTT



**B1 2.1E Rigidlam LVL SP 1.750" X 11.875" 2-Ply - PASSED**

Level: Level



**Member Information**

Type:	Girder	Application:	Floor
Piles:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	10 PSF		

**Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	976	1175	0	0
2	Vertical	0	976	1175	0	0

**Bearings**

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	23%	976 / 1175	2151	L	D+S
2 - SPF End Grain	3.500"	Vert	23%	976 / 1175	2151	L	D+S

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7940 ft-lb	7'10"	24489 ft-lb	0.324 (32%)	D+S	L
Unbraced	7940 ft-lb	7'10"	7946 ft-lb	0.999 (100%)	D+S	L
Shear	1811 lb	14'4 5/8"	9241 lb	0.196 (20%)	D+S	L
LL Defl inch	0.187 (L/973)	7'10 1/16"	0.380 (L/480)	0.493 (49%)	S	L
TL Defl inch	0.343 (L/532)	7'10 1/16"	0.760 (L/240)	0.451 (45%)	D+S	L

**Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 12'3 3/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		7-6-0	Top	15 PSF	0 PSF	20 PSF	0 PSF	0 PSF	Rafter Span
	Self Weight				12 PLF					

**Notes**

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

**Lumber**

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

**Manufacturer Info**

Roseburg Forest Products  
4500 Riddle By-pass Rd  
Riddle, OR 97469  
(541) 784-4005  
www.roseburg.com  
APA: PR-L289, ICC-ES: ESR-1210

Diamond Hill Plywood  
2706 White Horse road, SC  
US  
29611  
866-846-2715



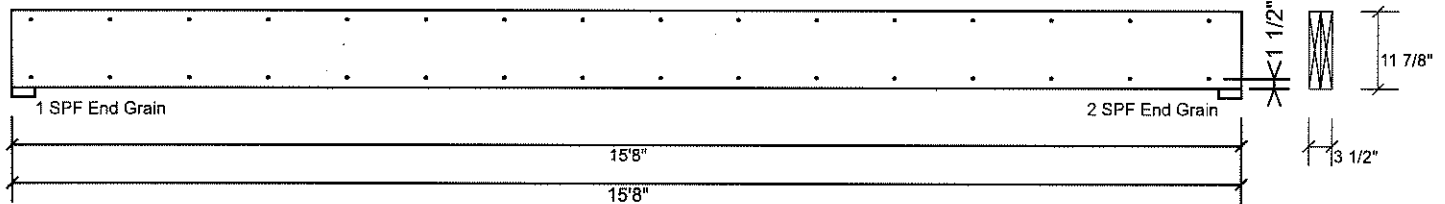
This design is valid until 5/24/2024





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Level: Level



**Multi-Ply Analysis**

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	197.8 PLF
Yield Limit per Fastener	98.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

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**Lumber**

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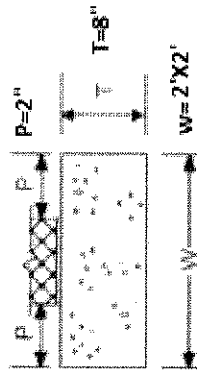
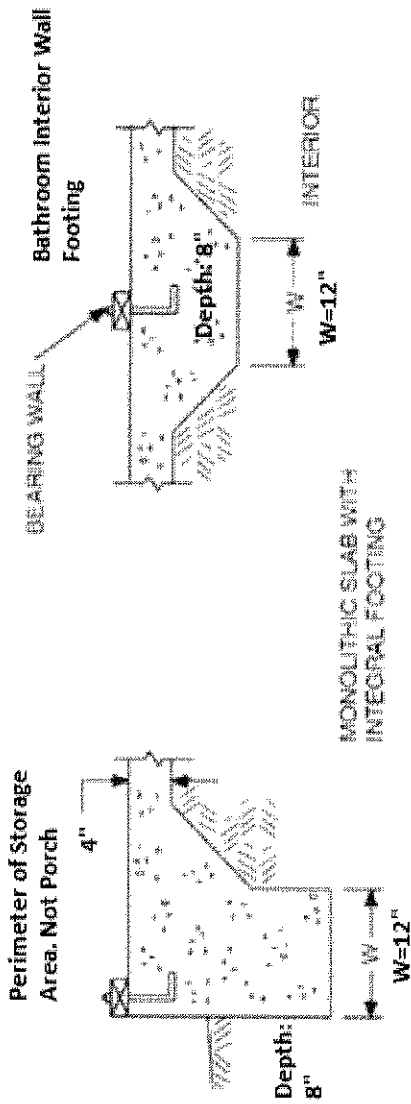
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Name: Lonnie and Ruth  
Scott

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Upchurch Road Lillington

Project: Pool House  
Footing



Porch 6x6 Treated Post  
Footing