

Client: Project: Address: 84 Lumber-Fayetteville #2307 Caviness Land - CC2695

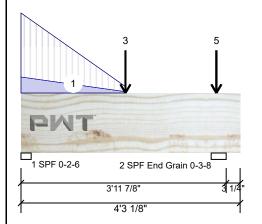
Lot 503 Creekside Oaks South

Date: 1/31/2025 Input by: Kyle Militzer

Job Name: CC2695 GL-503 CS Project #: CC2695 GL-503 CS

#### 1.750" X 14.000" - PASSED FB3 2.0E 2900Fb PWT LVL

Level: 2nd Flr





Page 1 of 1

# **Member Information**

Type: Plies: Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II

Temperature: Temp <= 100°F

General Load

40 PSF Floor Live: 10 PSF Dead:

# **Reactions PATTERNED Ib (Uplift)**

Direction	Live	Dead	Snow	Wind	Const
Vertical	352	170	0	0	0
Vertical	903	700	0	0	0
	Vertical	Vertical 352	Vertical 352 170	Vertical 352 170 0	Vertical 352 170 0 0

# **Bearings**

l	Bearing	Length	Dir.	Cap. R	teact D/L lb	Total	Ld. Case	Ld. Comb.
	1 - SPF	2.375"	Vert	30%	170 / 352	522	L_	D+L
	2 - SPF End Grain	3.500"	Vert	32%	700 / 903	1603	L_	D+L

# Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	943 ft-lb	2' 3/8"	13396 ft-lb	7%	D+L	L_
Shear	518 lb	2'6 3/8"	4655 lb	11%	D+L	L_
LL Defl inch	0.005 (L/9664)	2' 3/8"	0.124 (L/360)	4%	L	LL
TL Defl inch	0.007 (L/6567)	2' 3/8"	0.185 (L/240)	4%	D+L	LL
LL Cant	-0.000 (2L/18513)	Rt Cant	0.200 (2L/240)	0%	L	LL
TL Cant	-0.001 (21/12580)	Rt Cant	0.300 (21/180)	0%	D+L	LL

Application:

Design Method:

**Building Code:** 

Load Sharing:

Deck:

Floor

ASD

No

IRC 2018

Not Checked

#### **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 Dead Load Deflection: Instant = 0.002", Long Term = 0.003".
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top must be laterally braced at end bearings.
- 5 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 2-0-6	0-5-7 to 0-0-7	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Point	2-0-6		Far Face	251 lb	447 lb	0 lb	0 lb	0 lb	J1
3	Point	2-0-6		Near Face	60 lb	239 lb	0 lb	0 lb	0 lb	J6
4	Point	3-9-9		Near Face	42 lb	168 lb	0 lb	0 lb	0 lb	J3
5	Point	3-9-10		Far Face	482 lb	381 lb	0 lb	0 lb	0 lb	J8
	Self Weight				7 PLF					

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Manufacturer Info

Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280

U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078





Client: 84 L Project: Cav

Address:

84 Lumber-Fayetteville #2307 Caviness Land - CC2695

Lot 503 Creekside Oaks South

Date: 1/31/2025 Input by: Kyle Militze

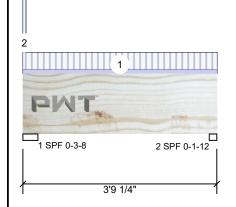
Input by: Kyle Militzer

Job Name: CC2695 GL-503 CS

Project #: CC2695 GL-503 CS

# FB2 2.0E 2900Fb PWT LVL 1.750" X 14.000" - PASSED

Project #: CC2695 G





Page 1 of 1

Member Infor	mation			Rea	ctions PAT	ΓERNED	lb (L	Jplift)			
Type:	Girder	Application:	Floor	Brg	Direction	Live		Dead	Snow	Wind	Const
Plies:	1	Design Method:	ASD	1	Vertical	87		35	0	0	0
Moisture Conditio	n: Dry	Building Code:	IRC 2018	2	Vertical	74		31	0	0	0
Deflection LL:	360	Load Sharing:	No								
Deflection TL:	240	Deck:	Not Checked								
Importance:	Normal - II										
Temperature:	Temp <= 100°F			<u> </u>							
General Load				Bea	rings						
Floor Live:	40 PSF			Bea	aring Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
Dead:	10 PSF			1 -	SPF 3.500"	Vert	5%	35 / 87	122	L	D+L
				2 -	SPF 1.750"	Vert	8%	31 / 74	106	L	D+L

# **Analysis Results**

ч							
	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	87 ft-lb	1'11 1/2"	13396 ft-lb	1%	D+L	L
	Shear	29 lb	1'5 1/2"	4655 lb	1%	D+L	L
	LL Defl inch	0.000 (L/91500)	1'11 9/16"	0.115 (L/360)	0%	L	L
	TL Defl inch	0.001 (L/64401)	1'11 9/16"	0.173 (L/240)	0%	D+L	L

# **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.000", Long Term = 0.000".
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top must be laterally braced at end bearings.
- 5 Bottom must be laterally braced at end bearings.

I	ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
I	1	Tie-In	0-0-0 to 3-9-4	1-0-5	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
I	2	Part. Uniform	0-0-0 to 0-0-11		Тор	28 PLF	112 PLF	0 PLF	0 PLF	0 PLF	
ı		Self Weight				7 PLF					

# Notes

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Client: Project:

Application:

Design Method:

**Building Code:** 

Load Sharing:

Deck:

Floor

ASD

Yes

IRC 2018

Not Checked

Address:

84 Lumber-Fayetteville #2307

Caviness Land - CC2695 Lot 503 Creekside Oaks South Date: 1/31/2025

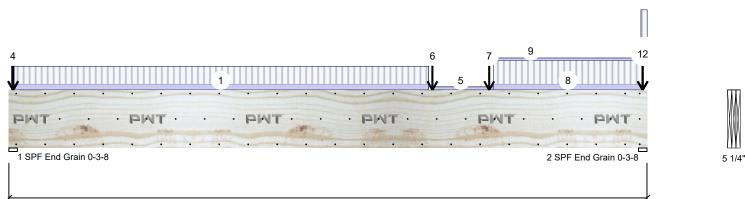
Input by: Kyle Militzer Job Name: CC2695 GL-503 CS Project #: CC2695 GL-503 CS

Level: 2nd Flr

2.0E 2900Fb PWT LVL FB<sub>1</sub>

1.750" X 24.000"

3-Ply - PASSED





Page 1 of 3

hor	Info	rm	ati	nn

Mem

Type: Girder 3 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II Temp <= 100°F Temperature:

General Load

40 PSF Floor Live: 10 PSF Dead:

# Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	76	478	0	0	0
2	Vertical	82	463	0	0	0

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2686 ft-lb	11' 9/16"	110274 ft-lb	2%	D+L	L
Shear	408 lb	19'8 1/2"	23940 lb	2%	D+L	L
LL Defl inch	0.003 (L/84888)	10'10 7/16"	0.719 (L/360)	0%	L	L
TL Defl inch	0.021 (L/12284)	11' 1/4"	1.078 (L/240)	2%	D+L	L

# **Bearings**

Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	4%	478 / 76	554	L	D+L
2 - SPF End Grain	3.500"	Vert	4%	463 / 82	546	L	D+L

# **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.018", Long Term = 0.027".
- 3 Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Nail from both sides. Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

o Bottom mast	so laterally staces at	ona boaringo.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-1-2 to 14-5-8	0-2-15 to 0-2-15	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
2	Point	0-1-12		Тор	24 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
3	Point	0-1-12		Тор	24 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								

Continued on page 2...

#### Notes

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078





Client: 84 Lumber-Fayetteville #2307 Project:

Caviness Land - CC2695

Lot 503 Creekside Oaks South

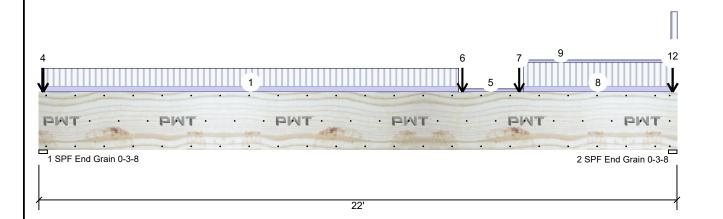
Date: 1/31/2025 Input by:

Kyle Militzer Job Name: CC2695 GL-503 CS Project #: CC2695 GL-503 CS

2.0E 2900Fb PWT LVL 1.750" X 24.000" 3-Ply - PASSED FB1

Address:

Level: 2nd Flr





5 1/4"

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Continued fro	om page 1									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
4	Point	0-1-12		Тор	1 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
5	Tie-In	14-6-13 to 16-8-8	0-2-15 to 0-2-15	Тор	5 PSF	0 PSF	0 PSF	0 PSF	0 PSF	
6	Point	14-7-4		Тор	10 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
7	Point	16-6-12		Тор	10 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
8	Tie-In	16-8-8 to 21-10-4	0-2-15 to 0-2-15	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
9	Part. Uniform	16-8-8 to 21-8-8		Тор	1 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
10	Tie-In	21-9-10 to 22-0-0	0-5-1	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
11	Point	21-10-4		Тор	4 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
12	Point	21-10-4		Тор	19 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
	Self Weight				36 PLF					

# Notes

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Client: Project:

Address:

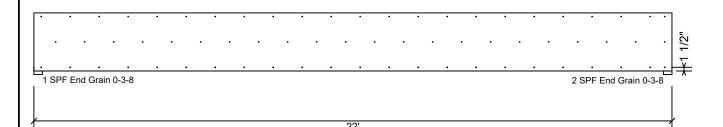
84 Lumber-Fayetteville #2307 Caviness Land - CC2695

Lot 503 Creekside Oaks South

Date: 1/31/2025 Input by:

Kyle Militzer Job Name: CC2695 GL-503 CS Project #: CC2695 GL-503 CS

2.0E 2900Fb PWT LVL 1.750" X 24.000" FB1 3-Ply - PASSED Level: 2nd Flr





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Multi-Ply Analysis

Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6". Clinch Nails where possible.

	•	
Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	352.8 PLF	
Yield Limit per Fastener	117.6 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

# Notes

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Client: Project: Address:

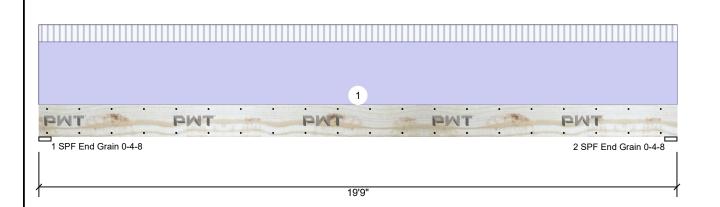
84 Lumber-Fayetteville #2307

Caviness Land - CC2695 Lot 503 Creekside Oaks South Date: 1/31/2025 Input by: Kyle Militzer

Job Name: CC2695 GL-503 CS Project #: CC2695 GL-503 CS

1.750" X 11.875" 2.0E 2900Fb PWT LVL 3-Ply - PASSED HD3

Level: 2nd Flr





Ld. Comb.

D+L

D+L

5 1/4"

Total Ld. Case

2033 L

2033 L

Page 1 of 2

Member Inform	ation						
Туре:	Girder						
Plies:	3						
Moisture Condition:	Dry						
Deflection LL:	360						
Deflection TL:	240						
Importance:	Normal - II						
Temperature:	Temp <= 100°F						
General Load							
Floor Live:	40 PSF						
Dead:	10 PSF						
Analysis Results							

#### Application: Floor Design Method: ASD **Building Code:** IRC 2018 Load Sharing: Yes Deck: Not Checked

Reactions PATTERNED lb (Uplift)							
Brg	Direction	Live	Dead	Snow	Wind	Const	
1	Vertical	395	1638	0	0	0	
2	Vertical	395	1638	0	0	0	

Cap. React D/L lb

11%

1638 / 395

1638 / 395

# End Grain 2 - SPF 4.500" End Grain

**Bearings** Bearing Length

1 - SPF 4.500"

Dir.

Vert

Vert

Anaiysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9411 ft-lb	9'10 1/2"	31048 ft-lb	30%	D+L	L
Shear	1752 lb	1'4 3/8"	11845 lb	15%	D+L	L
LL Defl inch	0.086 (L/2683)	9'10 9/16"	0.638 (L/360)	13%	L	L
TL Defl inch	0.440 (L/521)	9'10 9/16"	0.956 (L/240)	46%	D+L	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.355", Long Term = 0.532".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Nail from both sides. Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 19-9-0		Top	148 PLF	40 PLF	0 PLF	0 PLF	0 PLF	

Self Weight 18 PLF

#### Notes

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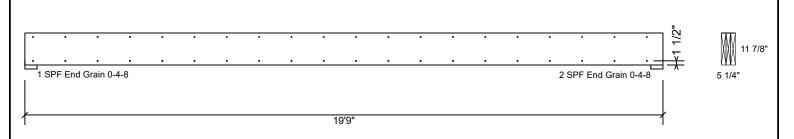
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Lot 503 Creekside Oaks South

Date: 1/31/2025 Input by:

Kyle Militzer Job Name: CC2695 GL-503 CS Project #: CC2695 GL-503 CS

2.0E 2900Fb PWT LVL 1.750" X 11.875" HD3 3-Ply - PASSED Level: 2nd Flr



# **Multi-Ply Analysis**

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

# Notes

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This design is valid until 9/3/2027

CSD DESIGN