

Petrie Residence/M.I./main residence

hdr @ study/side wdw south

HDR # 18 - alt #

Prepared by: LA

Date: 3/28/21

Selection 3-1/8x 10-1/2 GLB 24F-V4 DF/DF Lu = 0.0 Ft

Conditions NDS 2015
Min Bearing Area R1= 4.6 in² R2= 4.1 in² (1.5) DL Defl= 0.10 in Recom Camber= 0.16 in

Data

Beam Span	8.0 ft	Reaction 1 LL	1652 #	Reaction 2 LL	1478 #
Beam Wt per ft	7.97 #	Reaction 1 TL	2999 #	Reaction 2 TL	2649 #
Bm Wt Included	64 #	Maximum V	2999 #		
Max Moment	8732 #	Max V (Reduced)	2642 #		
TL Max Defl	L / 240	TL Actual Defl	L / 492		
LL Max Defl	L / 360	LL Actual Defl	L / >1000		

Attributes

	Section (in ³)	Shear (in ²)	TL Defl (in)	LL Defl
Actual	57.42	32.81	0.20	0.09
Critical	43.66	16.51	0.40	0.27
Status	OK	OK	OK	OK
Ratio	76%	50%	49%	34%

Values

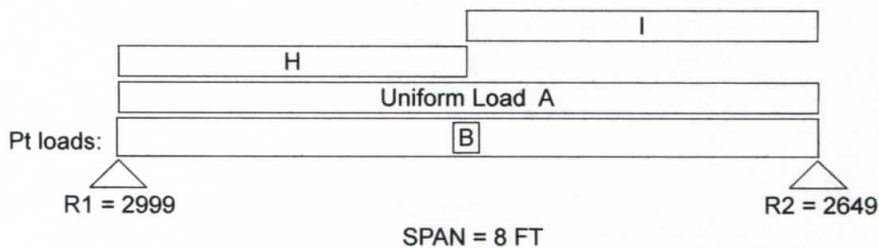
	Fb (psi)	Fv (psi)	E (psi x mil)	Fc _I (psi)
Reference Values	2400	240	1.8	650
Adjusted Values	2400	240	1.8	650

Adjustments

Cv Volume	1.000			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		N/A		
Cm Wet Use	1.00	1.00	1.00	1.00
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	

Loads

		Uniform LL: 25	Uniform TL: 50 = A		Start	End
Point LL	Point TL	Distance	Par Unif LL	Par Unif TL		
1877	B = 3084	4.0	175	H = 350	0	4.0
			88	I = 175	4.0	8.0



Uniform and partial uniform loads are lbs per lineal ft.

Petrie Residence/M.I./main residence

hdr @ study/side wdw south

HDR # 18 - alt # 1

Prepared by: LA

Date: 3/28/21

Selection 3-1/2x 9-1/4 2.0E TJ Parallam W.S. PSL Lu = 0.0 Ft

Conditions NDS 2015
Min Bearing Area R1= 4.8 in² R2= 4.3 in² (1.5) DL Defl= 0.11 in

Data

Beam Span	8.0 ft	Reaction 1 LL	1652 #	Reaction 2 LL	1478 #
Beam Wt per ft	10.12 #	Reaction 1 TL	3007 #	Reaction 2 TL	2657 #
Bm Wt Included	81 #	Maximum V	3007 #		
Max Moment	8749 #	Max V (Reduced)	2691 #		
TL Max Defl	L / 240	TL Actual Defl	L / 459		
LL Max Defl	L / 360	LL Actual Defl	L / 989		

Attributes

	Section (in ³)	Shear (in ²)	TL Defl (in)	LL Defl
Actual	49.91	32.38	0.21	0.10
Critical	35.17	13.92	0.40	0.27
Status	OK	OK	OK	OK
Ratio	70%	43%	52%	36%

Values

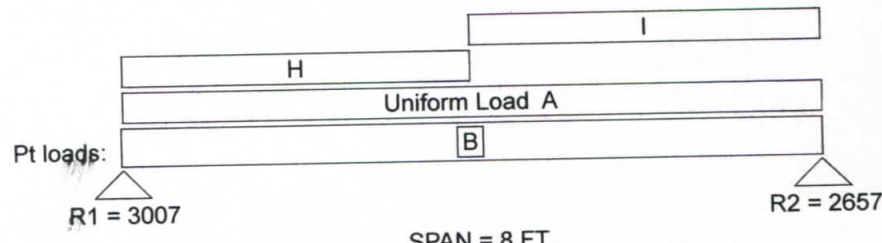
	Fb (psi)	Fv (psi)	E (psi x mil)	Fc _I (psi)
Reference Values	2900	290	2.2	625
Adjusted Values	2985	290	2.2	625

Adjustments

CF Size Factor	1.029			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		N/A		
Cm Wet Use	1.00	1.00	1.00	1.00
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	

Loads

Point LL	Point TL	Distance	Par Unif LL	Par Unif TL	Start	End
1877	B = 3084	4.0	175	H = 350	0	4.0
			88	I = 175	4.0	8.0



Uniform and partial uniform loads are lbs per lineal ft.

Petrie Residence/M.I./main residence

Dek rim above kitchen window

REV Dek Jst # 26- alt #

Prepared by: LA

Date: 3/28/21

Selection **2x 8 HF #2** Lu = 0.0 Ft Lu @OH = 0.0 Ft

Conditions NDS 2015, Overhang, Uplift @ R1

Min Bearing Area R1= -0.5 in² R2= 1.6 in² (1.5) DL Defl= 0.04 in.

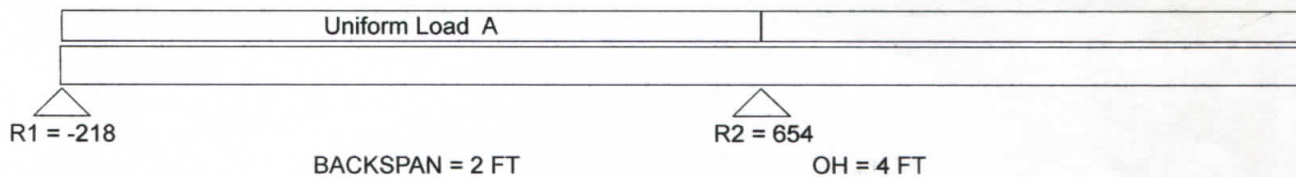
Data					
Beam Span	2.0 ft	Reaction 1 LL	-180 #	Reaction 2 LL	540 #
Beam Wt per ft	2.64 #	Reaction 1 TL	-218 #	Reaction 2 TL	654 #
Bm Wt Included	16 #	Maximum V	363 #	Overhang Length	4.0 ft
Max Moment	581 #	Max V (Reduced)	319 #	Total Beam Length	6.0 ft
TL Max Defl	L / 240	TL Actual Defl	L / < -1000	OH TL Actual Defl	L / 529
LL Max Defl	L / 360	LL Actual Defl	L / < -1000	OH LL Actual Defl	L / 683

Attributes		Section (in ³)	Shear (in ²)	TL Defl (in)	LL Defl	OH TL Defl	OH LL Defl
Actual		13.14	10.88	0.00	0.00	0.18	0.14
Critical		6.84	3.19	0.10	0.07	0.40	0.27
Status		OK	OK	OK	OK	OK	OK
Ratio		52%	29%	4%	5%	45%	53%

Values		Fb (psi)	Fv (psi)	E (psi x mil)	Fc _I (psi)
Reference Values		850	150	1.3	405
Adjusted Values		1020	150	1.3	405

Adjustments		CF Size Factor	Cd Duration	Cr Repetitive	Ch Shear Stress	Cm Wet Use	CI Stability	Rb = 0.00	Le = 0.00 Ft
		1.200	1.00	1.00	N/A	1.00	1.0000	0.00	0.00 Ft
							1.0000	0.00	0.00 Ft

Loads		Uniform LL: 60	Uniform TL: 70 = A	(Uniform Ld on Backspan)	
			Par Unif LL	Par Unif TL	Start End
			60	K = 70 (OH)	0 4.0



Uniform and partial uniform loads are lbs per lineal ft. Overhanging load distances are from R2.

Petrie Residence/M.I./main residence

Dek jsts above kitchen window

REV Dek Jst # 26A- alt #

Prepared by: LA

Date: 3/28/21

Selection

2x 8 HF #2 @ 16 in oc

Lu = 0.0 Ft

Lu @OH = 0.0 Ft

Conditions

NDS 2015, Overhang, Repetitive Use, Uplift @ R1

Min Bearing Area R1= -0.7 in² R2= 2.1 in² (1.5) DL Defl= 0.05 in.

Data

Beam Span	2.0 ft	Reaction 1 LL	-240 #	Reaction 2 LL	720 #
Beam Wt per ft	0 #	Reaction 1 TL	-280 #	Reaction 2 TL	840 #
Bm Wt Included	0 #	Maximum V	467 #	Overhang Length	4.0 ft
Max Moment	747 #	Max V (Reduced)	410 #	Total Beam Length	6.0 ft
TL Max Defl	L / 240	TL Actual Defl	L / < -1000	OH TL Actual Defl	L / 410
LL Max Defl	L / 360	LL Actual Defl	L / < -1000	OH LL Actual Defl	L / 512

Attributes

	Section (in ²)	Shear (in ²)	TL Defl (in)	LL Defl	OH TL Defl	OH LL Defl
Actual	13.14	10.88	-0.01	0.00	0.23	0.19
Critical	7.64	4.10	0.10	0.07	0.40	0.27
Status	OK	OK	OK	OK	OK	OK
Ratio	58%	38%	5%	6%	59%	70%

Values

	Fb (psi)	Fv (psi)	E (psi x mil)	Fc _L (psi)
Reference Values	850	150	1.3	405
Adjusted Values	1173	150	1.3	405

Adjustments

CF Size Factor	1.200			
Cd Duration	1.00	1.00		
Cr Repetitive	1.15			
Ch Shear Stress		N/A		
Cm Wet Use	1.00	1.00	1.00	1.00
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	
CI Stability @ OH	1.0000	Rb = 0.00	Le = 0.00 Ft	

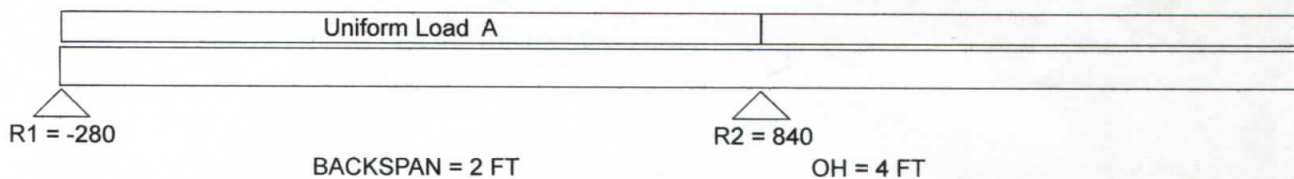
Loads

Uniform LL: 80

Uniform TL: 93 = A

(Uniform Ld on Backspan)

	Par Unif LL	Par Unif TL	Start	End
	80	K = 93 (OH)	0	4.0



Uniform and partial uniform loads are lbs per lineal ft. Overhanging load distances are from R2.

Petrie Residence/M.I./main residence

fl flr bm near kitchen window

REV FL FLR BM# 27-alt #

Prepared by: LA

Date: 3/28/21

Selection

5-1/4x 11-7/8 2.0E TJ Parallam W.S. PSL

Lu = 0.0 Ft

Conditions

NDS 2015

Min Bearing Area R1= 5.3 in² R2= 5.3 in² (1.5) DL Defl= 0.21 in

Data

Beam Span	15.0 ft	Reaction 1 LL	1370 #	Reaction 2 LL	1370 #
Beam Wt per ft	19.48 #	Reaction 1 TL	3319 #	Reaction 2 TL	3319 #
Bm Wt Included	292 #	Maximum V	3319 #		
Max Moment	7332 #	Max V (Reduced)	2714 #		
TL Max Defl	L / 240	TL Actual Defl	L / 598		
LL Max Defl	L / 360	LL Actual Defl	L / >1000		

Attributes

	Section (in ³)	Shear (in ²)	TL Defl (in)	LL Defl
Actual	123.39	62.34	0.30	0.09
Critical	30.31	14.04	0.75	0.50
Status	OK	OK	OK	OK
Ratio	25%	23%	40%	18%

Values

	Fb (psi)	Fv (psi)	E (psi x mil)	Fc _⊥ (psi)
Reference Values	2900	290	2.2	625
Adjusted Values	2903	290	2.2	625

Adjustments

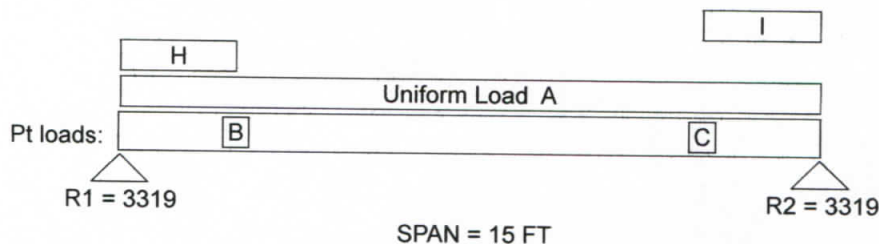
CF Size Factor	1.001			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		N/A		
Cm Wet Use	1.00	1.00	1.00	1.00
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	

Loads

Uniform LL: 5

Uniform TL: 56 = A

Point LL	Point TL	Distance	Par Unif LL	Par Unif TL	Start	End
687	B = 1415	2.5	258	H = 535	0	2.5
687	C = 1415	12.5	258	I = 535	12.5	15.0



Uniform and partial uniform loads are lbs per lineal ft.

Petrie Residence/M.I./main residence

fl flr bm near kitchen window

REV FL FLR BM# 27-alt # |

Prepared by: LA

Date: 3/28/21

Selection

7x 11-7/8 2.0E TJ Parallam W.S. PSL

Lu = 0.0 Ft

Conditions

NDS 2015

Min Bearing Area R1= 5.4 in² R2= 5.4 in² (1.5) DL Defl= 0.16 in

Data

Beam Span	15.0 ft	Reaction 1 LL	1370 #	Reaction 2 LL	1370 #
Beam Wt per ft	25.98 #	Reaction 1 TL	3367 #	Reaction 2 TL	3367 #
Bm Wt Included	390 #	Maximum V	3367 #		
Max Moment	7515 #'	Max V (Reduced)	2757 #		
TL Max Defl	L / 240	TL Actual Defl	L / 780		
LL Max Defl	L / 360	LL Actual Defl	L / >1000		

Attributes

	Section (in ³)	Shear (in ²)	TL Defl (in)	LL Defl
Actual	164.52	83.13	0.23	0.07
Critical	31.06	14.26	0.75	0.50
Status	OK	OK	OK	OK
Ratio	19%	17%	31%	13%

Values

	Fb (psi)	Fv (psi)	E (psi x mil)	Fc _I (psi)
Reference Values	2900	290	2.2	625
Adjusted Values	2903	290	2.2	625

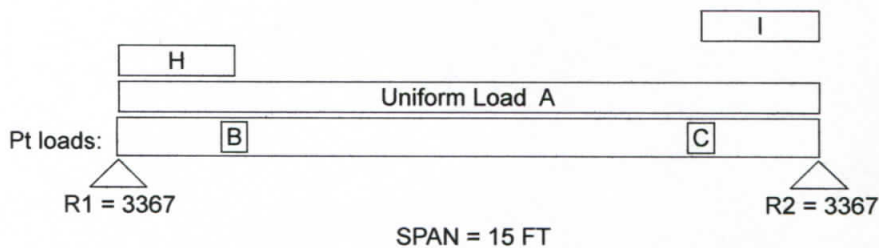
Adjustments

CF Size Factor	1.001			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		N/A		
Cm Wet Use	1.00	1.00	1.00	1.00
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	

Loads

Uniform LL: 5 Uniform TL: 56 = A

Point LL	Point TL	Distance	Par Unif LL	Par Unif TL	Start	End
687	B = 1415	2.5	258	H = 535	0	2.5
687	C = 1415	12.5	258	I = 535	12.5	15.0



Uniform and partial uniform loads are lbs per lineal ft.

Petrie Residence/M.I./main residence

spiral stair support abv study

FLR BM# 38 - alt #

Prepared by: LA

Date: 3/28/21

Selection 5-1/8x 18 GLB 24F-V4 DF/DF Lu = 0.0 Ft

Conditions NDS 2015, Wet Use

Min Bearing Area R1= 8.8 in² R2= 14.5 in² (2.0) DL Defl= 0.12 in Recom Camber= 0.17 in

Data

Beam Span	14.0 ft	Reaction 1 LL	1877 #	Reaction 2 LL	3345 #
Beam Wt per ft	22.42 #	Reaction 1 TL	3018 #	Reaction 2 TL	5008 #
Bm Wt Included	314 #	Maximum V	5008 #		
Max Moment	18410 #'	Max V (Reduced)	4350 #		
TL Max Defl	L / 240	TL Actual Defl	L / 750		
LL Max Defl	L / 360	LL Actual Defl	L / >1000		

Attributes

	Section (in ³)	Shear (in ²)	TL Defl (in)	LL Defl
Actual	276.75	92.25	0.22	0.11
Critical	115.07	31.07	0.70	0.47
Status	OK	OK	OK	OK
Ratio	42%	34%	32%	23%

Values

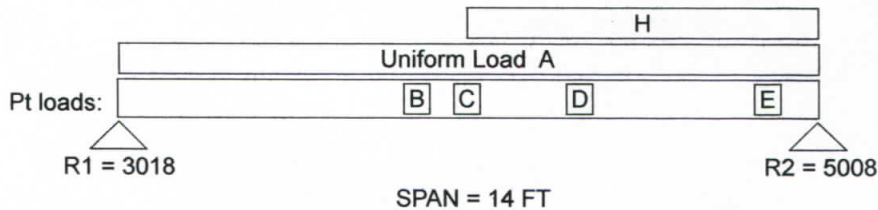
	Fb (psi)	Fv (psi)	E (psi x mil)	Fc _I (psi)
Reference Values	2400	240	1.8	650
Adjusted Values	1920	210	1.5	345

Adjustments

Cv Volume	1.000			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		N/A		
Cm Wet Use	0.80	0.875	0.833	0.53
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	

Loads

	Uniform LL: 25	Uniform TL: 50 = A				
Point LL	Point TL	Distance	Par Unif LL	Par Unif TL	Start	End
791	B = 944	6.0	88	H = 157	7.0	14.0
821	C = 1642	7.0				
1853	D = 2384	9.25				
791	E = 944	13.0				



Uniform and partial uniform loads are lbs per lineal ft.

Petrie Residence/M.I./main residence

spiral stair support abv study

FLR BM# 38 - alt # 1

Prepared by: LA

Date: 3/28/21

Selection 5-1/8x 25-1/2 GLB 24F-V4 DF/DF Lu = 0.0 Ft

Conditions NDS 2015, Wet Use
Min Bearing Area R1= 9.0 in² R2= 14.7 in² (2.0) DL Defl= 0.04 in Recom Camber= 0.06 in

Data

Beam Span	14.0 ft	Reaction 1 LL	1877 #	Reaction 2 LL	3345 #
Beam Wt per ft	31.76 #	Reaction 1 TL	3084 #	Reaction 2 TL	5074 #
Bm Wt Included	445 #	Maximum V	5074 #		
Max Moment	18639 #'	Max V (Reduced)	4067 #		
TL Max Defl	L / 240	TL Actual Defl	L / >1000		
LL Max Defl	L / 360	LL Actual Defl	L / >1000		

Attributes

	Section (in ³)	Shear (in ²)	TL Defl (in)	LL Defl
Actual	555.42	130.69	0.08	0.04
Critical	120.62	29.05	0.70	0.47
Status	OK	OK	OK	OK
Ratio	22%	22%	11%	8%

Values

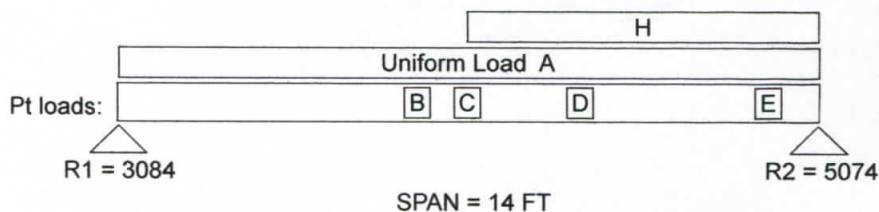
	Fb (psi)	Fv (psi)	E (psi x mil)	Fc _I (psi)
Reference Values	2400	240	1.8	650
Adjusted Values	1854	210	1.5	345

Adjustments

Cv Volume	0.966			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		N/A		
Cm Wet Use	0.80	0.875	0.833	0.53
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	

Loads

		Uniform LL: 25	Uniform TL: 50 = A			
Point LL	Point TL	Distance	Par Unif LL	Par Unif TL	Start	End
791	B = 944	6.0	88	H = 157	7.0	14.0
821	C = 1642	7.0				
1853	D = 2384	9.25				
791	E = 944	13.0				



Uniform and partial uniform loads are lbs per lineal ft.

Petrie Residence/M.I./main residence

spiral stair support abv study

FLR BM# 39 - alt #

Prepared by: LA

Date: 3/28/21

Selection PT 6x 10 HF #1 Lu = 0.0 Ft

Conditions NDS 2015, Wet Use, Incised

Min Bearing Area R1= 7.0 in² R2= 8.8 in² (2.0) DL Defl= 0.04 in

Data

Beam Span	7.0 ft	Reaction 1 LL	1510 #	Reaction 2 LL	1853 #
Beam Wt per ft	12.7 #	Reaction 1 TL	1904 #	Reaction 2 TL	2384 #
Bm Wt Included	89 #	Maximum V	2384 #		
Max Moment	5262 #	Max V (Reduced)	2207 #		
TL Max Defl	L / 240	TL Actual Defl	L / 784		
LL Max Defl	L / 360	LL Actual Defl	L / >1000		

Attributes

	Section (in ³)	Shear (in ²)	TL Defl (in)	LL Defl
Actual	82.73	52.25	0.11	0.07
Critical	75.17	29.56	0.35	0.23
Status	OK	OK	OK	OK
Ratio	91%	57%	31%	29%

Values

	Fb (psi)	Fv (psi)	E (psi x mil)	Fc _L (psi)
Reference Values	1050	140	1.3	405
Adjusted Values	840	112	1.2	271

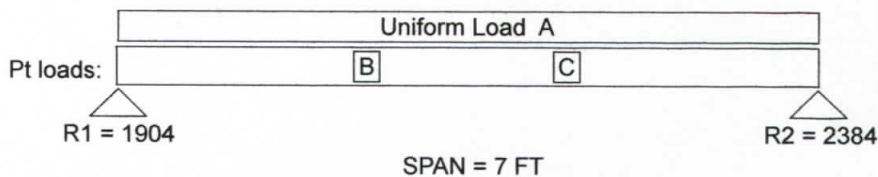
Adjustments

CF Size Factor	1.000			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		N/A		
Cm Wet+Ci Incised	0.80	0.80	0.95	0.67
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	

Loads

Point LL	Point TL	Distance
450	B = 525	2.5
1653	C = 2204	4.5

Uniform LL: 180 Uniform TL: 210 = A



Uniform and partial uniform loads are lbs per lineal ft.

Petrie Residence/M.I./main residence

spiral stair support abv study

FLR BM# 39A - alt #

Prepared by: LA

Date: 3/28/21

Selection **PT 4x 8 HF #1** Lu = 0.0 Ft

Conditions NDS 2015, Wet Use, Incised
 Min Bearing Area R1= 4.0 in² R2= 3.5 in² (2.0) DL Defl= 0.04 in

Data

Beam Span	7.0 ft	Reaction 1 LL	919 #	Reaction 2 LL	791 #
Beam Wt per ft	6.17 #	Reaction 1 TL	1094 #	Reaction 2 TL	944 #
Bm Wt Included	43 #	Maximum V	1094 #		
Max Moment	2064 #	Max V (Reduced)	963 #		
TL Max Defl	L / 240	TL Actual Defl	L / 588		
LL Max Defl	L / 360	LL Actual Defl	L / 811		

Attributes

	Section (in ³)	Shear (in ²)	TL Defl (in)	LL Defl
Actual	30.66	25.38	0.14	0.10
Critical	28.74	12.42	0.35	0.23
Status	OK	OK	OK	OK
Ratio	94%	49%	41%	44%

Values

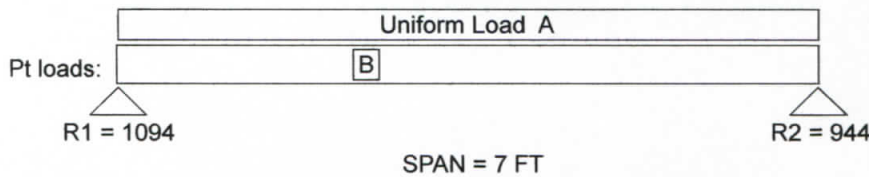
	Fb (psi)	Fv (psi)	E (psi x mil)	Fc _I (psi)
Reference Values	975	150	1.5	405
Adjusted Values	862	116	1.3	271

Adjustments

CF Size Factor	1.300			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		N/A		
Cm Wet+Ci Incised	0.68	0.776	0.855	0.67
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	

Loads Uniform LL: 180 Uniform TL: 210 = A

Point LL	Point TL	Distance
450	B = 525	2.5



Uniform and partial uniform loads are lbs per lineal ft.

Petrie Residence/M.I./main residence

bm/hdr @ entry/study opn'g

BM/HDR # 42 - alt #

Prepared by: LA

Date: 3/28/21

Selection

3-1/8x 12 GLB 24F-V4 DF/DF

Lu = 0.0 Ft

Conditions

NDS 2015

Min Bearing Area R1= 8.4 in² R2= 6.8 in² (1.5) DL Defl= 0.07 in Recom Camber= 0.10 in

Data

Beam Span	6.5 ft	Reaction 1 LL	2949 #	Reaction 2 LL	2381 #
Beam Wt per ft	9.11 #	Reaction 1 TL	5444 #	Reaction 2 TL	4391 #
Bm Wt Included	59 #	Maximum V	5444 #		
Max Moment	12780 #'	Max V (Reduced)	4725 #		
TL Max Defl	L / 240	TL Actual Defl	L / 625		
LL Max Defl	L / 360	LL Actual Defl	L / >1000		

Attributes

	Section (in ³)	Shear (in ²)	TL Defl (in)	LL Defl
Actual	75.00	37.50	0.12	0.06
Critical	63.90	29.53	0.33	0.22
Status	OK	OK	OK	OK
Ratio	85%	79%	38%	26%

Values

	Fb (psi)	Fv (psi)	E (psi x mil)	Fc _I (psi)
Reference Values	2400	240	1.8	650
Adjusted Values	2400	240	1.8	650

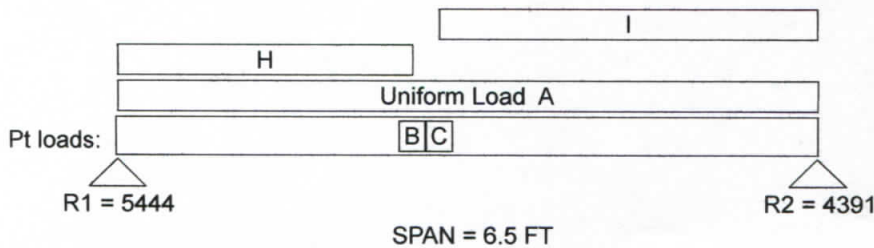
Adjustments

Cv Volume	1.000			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		N/A		
Cm Wet Use	1.00	1.00	1.00	1.00
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	

Loads

Uniform LL: 145 Uniform TL: 360 = A

Point LL	Point TL	Distance	Par Unif LL	Par Unif TL	Start	End
474	B = 1224	2.75	175	H = 350	0	2.75
3345	C = 5074	3.0	25	I = 50	3.0	6.5



Uniform and partial uniform loads are lbs per lineal ft.

Petrie Residence/M.I./main residence

bm/hdr @ entry/study opn'g

BM/HDR # 42 - alt # 1

Prepared by: LA

Date: 3/28/21

Selection 3-1/2x 9-1/2 2.0E TJ Parallam W.S. PSL Lu = 0.0 Ft

Conditions NDS 2015

Min Bearing Area R1= 8.7 in² R2= 7.0 in² (1.5) DL Defl= 0.10 in

Data

Beam Span	6.5 ft	Reaction 1 LL	2949 #	Reaction 2 LL	2381 #
Beam Wt per ft	10.39 #	Reaction 1 TL	5448 #	Reaction 2 TL	4395 #
Bm Wt Included	68 #	Maximum V	5448 #		
Max Moment	12786 #	Max V (Reduced)	4878 #		
TL Max Defl	L / 240	TL Actual Defl	L / 424		
LL Max Defl	L / 360	LL Actual Defl	L / 926		

Attributes

	Section (in ³)	Shear (in ²)	TL Defl (in)	LL Defl
Actual	52.65	33.25	0.18	0.08
Critical	51.55	25.23	0.33	0.22
Status	OK	OK	OK	OK
Ratio	98%	76%	57%	39%

Values

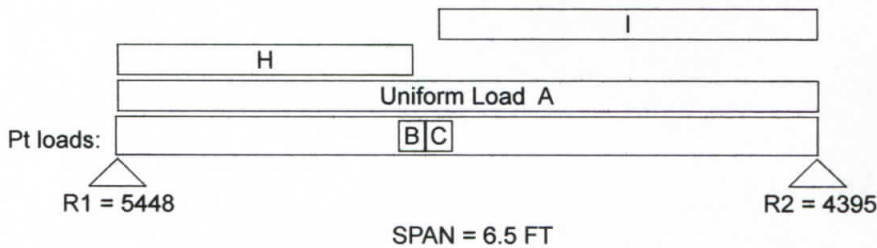
	Fb (psi)	Fv (psi)	E (psi x mil)	Fc _I (psi)
Reference Values	2900	290	2.2	625
Adjusted Values	2976	290	2.2	625

Adjustments

CF Size Factor	1.026			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		N/A		
Cm Wet Use	1.00	1.00	1.00	1.00
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	

Loads

Point LL	Point TL	Distance	Par Unif LL	Par Unif TL	Start	End
474	B = 1224	2.75	175	H = 350	0	2.75
3345	C = 5074	3.0	25	I = 50	3.0	6.5



Uniform and partial uniform loads are lbs per lineal ft.

Petrie Residence/M./main residence

bm/hdr @ entry/study opn'g

BM/HDR # 42 - alt # 2

Prepared by: LA

Date: 3/28/21

Selection 3-1/2x 11-1/4 2.0E TJ Parallam W.S. PSL Lu = 0.0 Ft

Conditions NDS 2015

Min Bearing Area R1= 8.7 in² R2= 7.0 in² (1.5) DL Defl= 0.06 in

Data

Beam Span	6.5 ft	Reaction 1 LL	2949 #	Reaction 2 LL	2381 #
Beam Wt per ft	12.3 #	Reaction 1 TL	5454 #	Reaction 2 TL	4401 #
Bm Wt Included	80 #	Maximum V	5454 #		
Max Moment	12796 '#	Max V (Reduced)	4777 #		
TL Max Defl	L / 240	TL Actual Defl	L / 704		
LL Max Defl	L / 360	LL Actual Defl	L / >1000		

Attributes

	Section (in ³)	Shear (in ²)	TL Defl (in)	LL Defl
Actual	73.83	39.38	0.11	0.05
Critical	52.57	24.71	0.33	0.22
Status	OK	OK	OK	OK
Ratio	71%	63%	34%	23%

Values

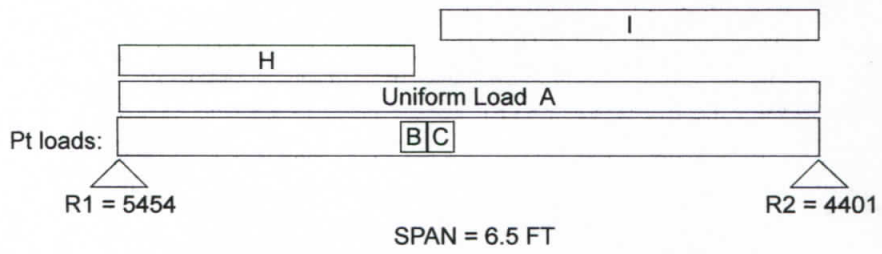
	Fb (psi)	Fv (psi)	E (psi x mil)	Fc _I (psi)
Reference Values	2900	290	2.2	625
Adjusted Values	2921	290	2.2	625

Adjustments

CF Size Factor	1.007			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		N/A		
Cm Wet Use	1.00	1.00	1.00	1.00
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	

Loads

Point LL	Point TL	Distance	Par Unif LL	Par Unif TL	Start	End
474	B = 1224	2.75	175	H = 350	0	2.75
3345	C = 5074	3.0	25	I = 50	3.0	6.5



Uniform and partial uniform loads are lbs per lineal ft.