

**Bm/Jst Location/Description: U14**

**Roof**  
 dead load (psf) 15.00  
 live load (psf) 25.00 additional total point load (kips) 2.72  
 tributary width (ft) 16.75 point load location to farthest support (ft) 5.00

**Floor**  
 dead load (psf) 15.00  
 live load (psf) 40.00 additional total point load (kips) 0.00  
 tributary width (ft) 0.00 point load location to farthest support (ft) 0.00

**Wall**  
 wall weight (psf) 10.00  
 height (ft) 0.00  
**Beam Span (ft) 8.00**  
 load duration/repetitive factor 1.00

<b>Beam Data Base Number</b>	<b>24</b>		<b>2.0E PSL</b>	
tributary load (plf)	670.00		#N/A	<b>Beam No.61-88</b>
moment (kip-ft)	10.46		Provided M	#N/A
shear/reaction (kips)	4.38		Provided V	#N/A
			Provided I	#N/A
	<b>DF#2</b>	<b>Provided</b>	<b>24F-V4 or 24F-V8 DF GL</b>	<b>Provided</b>
Required S (in <sup>3</sup> )	100.42	280.73	52.30	57.42
Required I (in <sup>4</sup> )	193.53	2456.38	193.53	301.46
Required A (in <sup>2</sup> )	57.63	96.25	29.86	32.81
Size	<b>6x18</b>	<b>Beam No.1-20</b>	<b>3-1/8x10-1/2</b>	<b>Beam No.20-60</b>

**Bm/Jst Location/Description: U15**

**Roof**  
 dead load (psf) 15.00  
 live load (psf) 25.00 additional total point load (kips) 0.00  
 tributary width (ft) 6.00 point load location to farthest support (ft) 0.00

**Floor**  
 dead load (psf) 15.00  
 live load (psf) 40.00 additional total point load (kips) 0.00  
 tributary width (ft) 2.00 point load location to farthest support (ft) 0.00

**Wall**  
 wall weight (psf) 10.00  
 height (ft) 10.00  
**Beam Span (ft) 6.00**  
 load duration/repetitive factor 1.00

<b>Beam Data Base Number</b>	<b>9</b>		<b>2.0E PSL</b>	
tributary load (plf)	450.00		#N/A	<b>Beam No.61-88</b>
moment (kip-ft)	2.03		Provided M	#N/A
shear/reaction (kips)	1.35		Provided V	#N/A
			Provided I	#N/A
	<b>DF#2</b>	<b>Provided</b>		
Required S (in <sup>3</sup> )	19.44	30.66		
Required I (in <sup>4</sup> )	28.10	111.15		
Required A (in <sup>2</sup> )	17.05	25.38		
Size	<b>4x8</b>	<b>Beam No.1-20</b>		



**Bm/Jst Location/Description:** U16

**Roof**  
 dead load (psf) 15.00  
 live load (psf) 25.00 additional total point load (kips) 0.00  
 tributary width (ft) 3.00 point load location to farthest support (ft) 0.00

**Floor**  
 dead load (psf) 15.00  
 live load (psf) 60.00 additional total point load (kips) 0.00  
 tributary width (ft) 5.00 point load location to farthest support (ft) 0.00

**Wall**  
 wall weight (psf) 10.00  
 height (ft) 4.00  
**Beam Span** (ft) 6.00  
 load duration/repetitive factor 0.85 1.00

<b>Beam Data Base Number</b>	<b>9</b>		<b>2.0E PSL</b>	
tributary load (plf)	535.00		#N/A	<b>Beam No.61-88</b>
moment (kip-ft)	2.41		Provided M	#N/A
shear/reaction (kips)	1.61		Provided V	#N/A
footing 3x3x1.5=13.5kips			Provided I	#N/A
		<b>DF#2</b>	<b>24F-V4 or 24F-V8 DF GL</b>	<b>Provided</b>
Required S (in <sup>3</sup> )		27.19	14.16	#N/A
Required I (in <sup>4</sup> )		36.75	36.75	#N/A
Required A (in <sup>2</sup> )		24.85	17.16	#N/A
Size		<b>4x8</b>	<b>#N/A</b>	<b>Beam No.20-60</b>

