

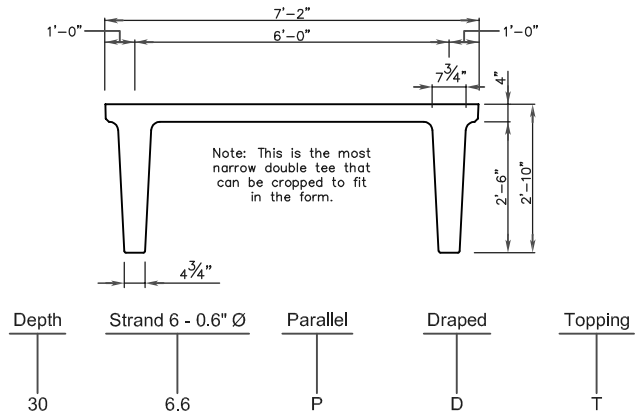
Prestressed Concrete

34" x 7'-2" DOUBLE TEE

(PRETOPPED)

PHYSICAL PROPERTIES

A = 759 in. ²	S _b = 3,119 in. ³
I = 75,460 in. ⁴	S _t = 7,695 in. ³
Y _b = 24.19 in.	W _t = 792 PLF
Y _t = 9.81 in.	W _t = 99 PSF



DESIGN DATA

- Precast Strength @ release = 3,500 PSI.
- Precast Strength @ release for draped tees = 4,500 PSI.
- Precast Strength @ 28 days = 6,000 PSI
- Precast Density = 145 PCF
- Strand = 0.6" Ø 270K Lo-Relaxation.
- Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
- Maximum bottom tensile stress is $12\sqrt{f_c} = 930$ PSI
- Flexural capacity is based on stress/strain strand relationships.
- All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

- If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
- Deflection limits were not considered when determining allowable loads in this table.

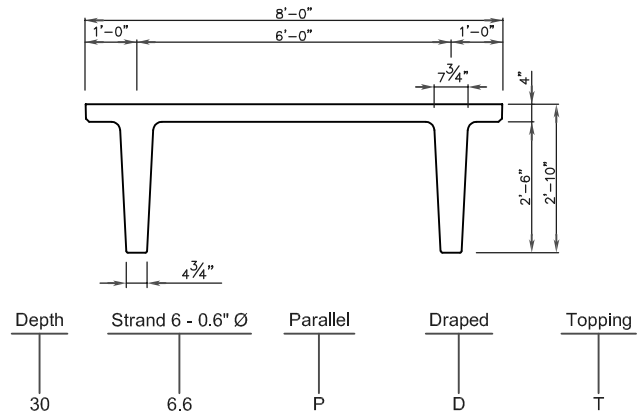
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
34 - 6.6 P	9,348	202	178	157	139	122	107	94	83	72	62	54	46	39	32										
34 - 8.6 P	11,978			223	200	179	160	143	128	115	102	91	81	72	63	55	48	42	36	30					
34 - 10.6 P	14,365					230	208	187	169	153	138	125	113	102	92	82	74	66	58	52	45	39	34		
34 - 12.6 P	16,508						250	227	206	188	171	155	141	129	117	106	96	87	79	71	64	57	50	44	38
34 - 14.6 P	18,407							262	239	218	200	182	157	153	140	128	116	105	95	86	77	69	61	54	48

Prestressed Concrete 34" x 8' DOUBLE TEE (PRETOPPED)

PHYSICAL PROPERTIES

$A = 759 \text{ in.}^2$	$S_b = 3,119 \text{ in.}^3$
$I = 75,460 \text{ in.}^4$	$S_t = 7,695 \text{ in.}^3$
$\gamma_b = 24.19 \text{ in.}$	$W_t = 792 \text{ PLF}$
$\gamma_t = 9.81 \text{ in.}$	$W_t = 99 \text{ PSF}$



DESIGN DATA

- Precast Strength @ release = 3,500 PSI.
- Precast Strength @ release for draped tees = 4,500 PSI.
- Precast Strength @ 28 days = 6,000 PSI
- Precast Density = 145 PCF
- Strand = 0.6" Ø 270K Lo-Relaxation.
- Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
- Maximum bottom tensile stress is $12\sqrt{f_c} = 930 \text{ PSI}$
- Flexural capacity is based on stress/strain strand relationships.
- All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

- If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
- Deflection limits were not considered when determining allowable loads in this table.

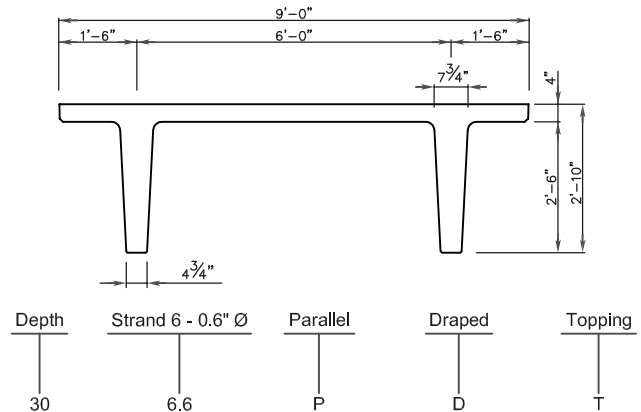
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
34 - 6.6 P	9,363	177	156	137	120	106	93	81	70	61	52	44	37	31											
34 - 8.6 P	12,005			197	175	157	140	125	111	99	88	78	69	61	53	46	40	34							
34 - 10.6 P	14,407					203	183	165	148	134	121	109	98	88	78	70	62	55	49	43	37	32			
34 - 12.6 P	16,569							201	182	165	150	136	123	112	101	92	83	75	67	60	54	48	42	36	32
34 - 14.6 P	18,490								212	193	176	160	146	134	122	111	101	92	83	75	67	59	42	46	40

Prestressed Concrete 34" x 9' DOUBLE TEE (PRETOPPED)

PHYSICAL PROPERTIES

$A = 807 \text{ in.}^2$	$S_b = 3,174 \text{ in.}^3$
$I = 78,275 \text{ in.}^4$	$S_t = 8,379 \text{ in.}^3$
$Y_b = 24.66 \text{ in.}$	$W_t = 846 \text{ PLF}$
$Y_t = 9.34 \text{ in.}$	$W_t = 94 \text{ PSF}$



DESIGN DATA

1. Precast Strength @ release = 3,500 PSI.
2. Precast Strength @ release for draped tees = 4,500 PSI.
3. Precast Strength @ 28 days = 6,000 PSI
4. Precast Density = 145 PCF
5. Strand = 0.6" Ø 270K Lo-Relaxation.
6. Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
7. Maximum bottom tensile stress is $12\sqrt{f_c} = 930 \text{ PSI}$
8. Flexural capacity is based on stress/strain strand relationships.
9. All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

10. If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
11. Deflection limits were not considered when determining allowable loads in this table.

ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
34 - 6.6 P	9,377	154	135	118	103	90	78	68	58	50	42	35													
34 - 8.6 P	12,030				152	135	120	107	95	84	74	65	57	50	43	37									
34 - 10.6 P	14,447						159	143	128	115	103	93	83	74	66	58	52	45	39	34					
34 - 12.6 P	16,626								158	143	130	117	106	96	87	78	70	63	56	50	44	39	33		
34 - 14.6 P	18,569									168	153	139	127	115	105	95	86	78	71	64	56	50	44	38	32

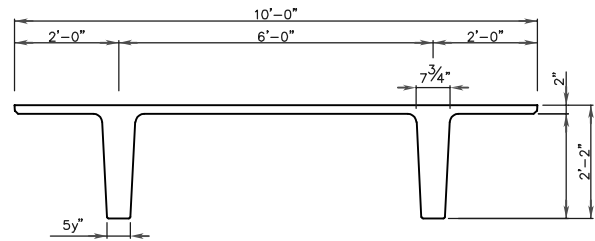
Prestressed Concrete

26" x 10' DOUBLE TEE

(NO TOPPING)

PHYSICAL PROPERTIES

A = 554 in. ²	S _b = 1,967 in. ³
I = 35,484 in. ⁴	S _t = 4,460 in. ³
Y _b = 18.04 in.	Wt. = 578 PLF
Y _t = 7.96 in.	Wt. = 58 PSF



Depth	Strand 4 - 0.6" Ø	Parallel	Draped	Topping
28	4.6	P	D	T

DESIGN DATA

- Precast Strength @ release = 3,500 PSI.
- Precast Strength @ release for draped tees = 4,500 PSI.
- Precast Strength @ 28 days = 6,000 PSI
- Precast Density = 145 PCF
- Strand = 0.6" Ø 270K Lo-Relaxation.
- Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
- Maximum bottom tensile stress is $12\sqrt{f_c} = 930$ PSI
- Flexural capacity is based on stress/strain strand relationships.
- All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

- If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
- Deflection limits were not considered when determining allowable loads in this table.

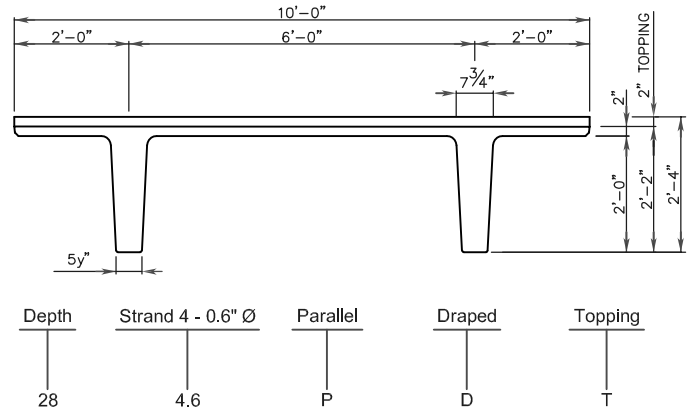
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
26 - 4.6 P	4,811	81	70	60	51	43	36																		
26 - 6.6 P	6,870		118	104	91	80	71	62	54	47	41	36													
26 - 8.6 P	8,697				127	113	101	90	80	72	64	57	50	45	39										
26 - 10.6 P	10,294						128	115	103	93	84	75	68	61	55	49	43	38							
26 - 12.6 P	11,659								121	109	98	88	79	71	64	57	51	45	40	35					
26 - 14.6 D	15,894											125	114	104	95	86	79	72	65	60	54	49	44	40	36
26 - 16.6 D	17,831												126	116	106	97	89	81	75	68	62	57	52	47	43
26 - 18.6 D	19,695													127	116	107	98	90	82	76	70	64	59	54	49

Prestressed Concrete 26" x 10' DOUBLE TEE (2" TOPPING)

PHYSICAL PROPERTIES

$A = 554 \text{ in.}^2$	$S_b = 1,967 \text{ in.}^3$
$I = 35,484 \text{ in.}^4$	$S_t = 4,460 \text{ in.}^3$
$I' = 45,964 \text{ in.}^4$	$S_{tt}' = 8,273 \text{ in.}^3$
$Y_b = 18.04 \text{ in.}$	$Wt. = 578 \text{ PLF}$
$Y_t = 7.96 \text{ in.}$	$Wt. = 58 \text{ PSF}$
$Y_{bb}' = 20.14 \text{ in.}$	$Wt.' = 828 \text{ PLF}$
$Y_{tt}' = 7.86 \text{ in.}$	$Wt.' = 83 \text{ PSF}$



DESIGN DATA

1. Precast Strength @ release = 3,500 PSI.
2. Precast Strength @ release for draped tees = 4,500 PSI.
3. Precast Strength @ 28 days = 6,000 PSI.
4. Topping Strength @ 28 days = 3,000 PSI.
5. Precast / Topping Density = 150 PCF.
6. Strand = 0.6" Ø 270K Lo-Relaxation.
7. Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
8. Maximum bottom tensile stress is $12\sqrt{f'_c} = 930 \text{ PSI}$.
9. Flexural capacity is based on stress/strain strand relationships.
10. All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

11. If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
12. Deflection limits were not considered when determining allowable loads in this table.

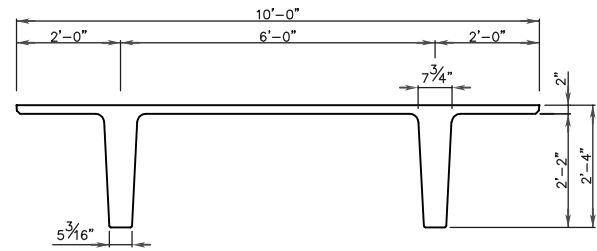
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82
26 - 4.6PT	5,192	104	87	73	60	49	40	31																	
26 - 6.6PT	7,412			130	112	97	83	71	61	52	43	36													
26 - 8.6PT	9,379						122	107	94	82	71	62	54	46	39										
26 - 10.6PT	11,096								122	108	96	85	74	63	54	45	37								
26 - 12.6PT	12,547									130	114	100	87	76	65	56	47	39							
26 - 14.6DT	16,888													120	107	96	85	76	67	59	51	45	38		
26 - 16.6DT	18,879														123	110	99	89	79	70	62	55	48	41	36
26 - 18.6DT	20,729															123	111	100	90	81	72	64	57	50	44

Prestressed Concrete 28" x 10' DOUBLE TEE (NO TOPPING)

PHYSICAL PROPERTIES

A = 576 in. ²	S _b = 2,223 in. ³
I = 42,973 in. ⁴	S _t = 4,957 in. ³
Y _b = 19.33 in.	Wt. = 600 PLF
Y _t = 8.67 in.	Wt. = 60 PSF



Depth	Strand 4 - 0.6" Ø	Parallel	Draped	Topping
28	4.6	P	D	T

DESIGN DATA

1. Precast Strength @ release = 3,500 PSI.
2. Precast Strength @ release for draped tees = 4,500 PSI.
3. Precast Strength @ 28 days = 6,000 PSI
4. Precast Density = 145 PCF
5. Strand = 0.6" Ø 270K Lo-Relaxation.
6. Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
7. Maximum bottom tensile stress is $12\sqrt{f_c} = 930$ PSI
8. Flexural capacity is based on stress/strain strand relationships.
9. All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

10. If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
11. Deflection limits were not considered when determining allowable loads in this table.

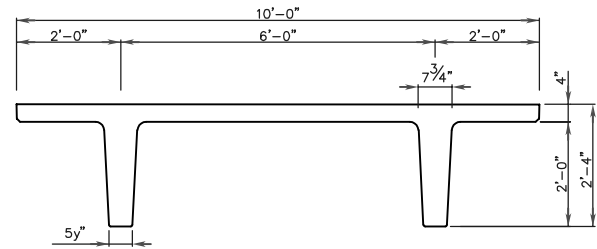
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
28 - 4.6 P	5,233	91	78	67	58	49	42	35																	
28 - 6.6 P	7,502	142	126	111	101	90	79	70	62	54	47	41	36												
28 - 8.6 P	9,541				137	127	113	101	91	81	73	65	58	52	46	40									
28 - 10.6 P	11,348							124	117	105	95	86	77	70	63	57	51	46	40						
28 - 12.6 P	12,925										112	102	92	82	74	67	60	54	48	43	38				
28 - 14.6 D	16,843													113	103	94	86	78	72	65	59	54	49	44	40
28 - 16.6 D	18,801															105	96	88	81	74	67	62	56	51	47
28 - 18.6 D	20,675																106	97	89	82	75	69	63	58	53

Prestressed Concrete 28" x 10' DOUBLE TEE (PRETOPPED)

PHYSICAL PROPERTIES

$A = 794 \text{ in.}^2$	$S_b = 2,362 \text{ in.}^3$
$I = 49,000 \text{ in.}^4$	$S_t = 6,758 \text{ in.}^3$
$Y_b = 20.75 \text{ in.}$	$Wt. = 828 \text{ PLF}$
$Y_t = 7.25 \text{ in.}$	$Wt. = 83 \text{ PSF}$



Depth	Strand 6 - 0.6" Ø	Parallel	Draped	Topping
30	6.6	P	D	T

DESIGN DATA

- Precast Strength @ release = 3,500 PSI.
- Precast Strength @ release for draped tees = 4,500 PSI.
- Precast Strength @ 28 days = 6,000 PSI
- Precast Density = 145 PCF
- Strand = 0.6" Ø 270K Lo-Relaxation.
- Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
- Maximum bottom tensile stress is $12\sqrt{f_c} = 930 \text{ PSI}$
- Flexural capacity is based on stress/strain strand relationships.
- All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

- If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
- Deflection limits were not considered when determining allowable loads in this table.

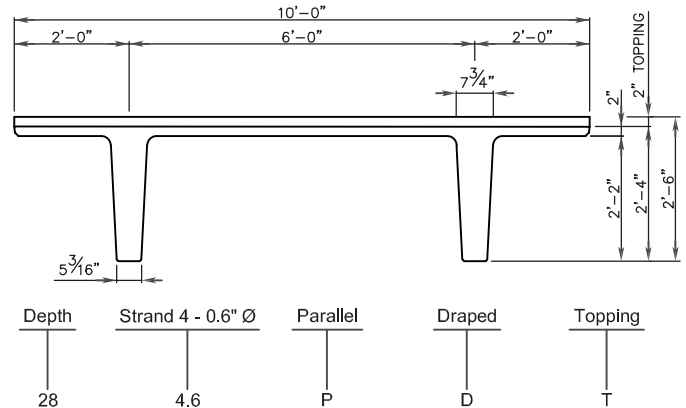
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
28 - 6.6 P	7,502	133	115	99	85	73	62	53	45	37															
28 - 8.6 P	9,541				125	110	96	84	74	64	56	48	41	34											
28 - 10.6 P	11,348						127	110	100	88	78	69	60	53	46	40	34								
28 - 12.6 P	12,925								122	109	97	87	77	69	61	54	47	40	34						
28 - 14.6 D	17,370												119	108	97	87	79	71	63	56	50	44	38		
28 - 16.6 D	20,488													123	112	101	91	83	74	67	60	54	48	42	37
28 - 18.6 D	22,574														124	113	103	94	85	77	70	63	56	51	45

Prestressed Concrete 28" x 10' DOUBLE TEE (2" TOPPING)

PHYSICAL PROPERTIES

$A = 576 \text{ in.}^2$	$S_b = 2,223 \text{ in.}^3$
$I = 42,973 \text{ in.}^4$	$S_t = 4,957 \text{ in.}^3$
$I' = 55,288 \text{ in.}^4$	$S_{tt}' = 9,231 \text{ in.}^3$
$Y_b = 19.33 \text{ in.}$	$Wt. = 600 \text{ PLF}$
$Y_t = 8.67 \text{ in.}$	$Wt. = 60 \text{ PSF}$
$Y_{bb}' = 21.53 \text{ in.}$	$Wt.' = 850 \text{ PLF}$
$Y_{tt}' = 8.47 \text{ in.}$	$Wt.' = 85 \text{ PSF}$



DESIGN DATA

1. Precast Strength @ release = 3,500 PSI.
2. Precast Strength @ release for draped tees = 4,500 PSI.
3. Precast Strength @ 28 days = 6,000 PSI.
4. Topping Strength @ 28 days = 3,000 PSI.
5. Precast / Topping Density = 150 PCF.
6. Strand = 0.6" Ø 270K Lo-Relaxation.
7. Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
8. Maximum bottom tensile stress is $12\sqrt{f'_c} = 930 \text{ PSI}$.
9. Flexural capacity is based on stress/strain strand relationships.
10. All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

11. If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
12. Deflection limits were not considered when determining allowable loads in this table.

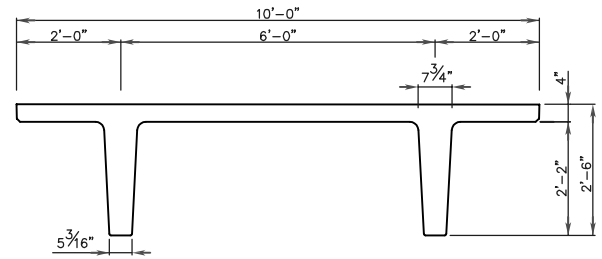
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
28 - 4.6PT	5,614	82	68	57	46	37																			
28 - 6.6PT	8,044			109	94	81	70	60	51	43	35														
28 - 8.6PT	10,223						106	93	82	72	62	54	47	40	34										
28 - 10.6PT	12,150								109	97	86	76	67	57	48	40	33								
28 - 12.6PT	13,822										105	92	80	70	60	52	44	36							
28 - 14.6DT	18,365														100	89	79	70	62	55	48	41			
28 - 16.6DT	20,590															104	93	84	75	67	59	52	45	39	
28 - 18.6DT	22,690																105	95	86	77	69	62	55	48	42

Prestressed Concrete 30" x 10' DOUBLE TEE (PRETOPPED)

PHYSICAL PROPERTIES

$A = 816 \text{ in.}^2$	$S_b = 2,656 \text{ in.}^3$
$I = 58,897 \text{ in.}^4$	$S_t = 7,525 \text{ in.}^3$
$Y_b = 22.17 \text{ in.}$	$W_t = 850 \text{ PLF}$
$Y_t = 7.83 \text{ in.}$	$W_t = 85 \text{ PSF}$



Depth	Strand 6 - 0.6" Ø	Parallel	Draped	Topping
30	6.6	P	D	T

DESIGN DATA

- Precast Strength @ release = 3,500 PSI.
- Precast Strength @ release for draped tees = 4,500 PSI.
- Precast Strength @ 28 days = 6,000 PSI
- Precast Density = 145 PCF
- Strand = 0.6" Ø 270K Lo-Relaxation.
- Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
- Maximum bottom tensile stress is $12\sqrt{f_c} = 930 \text{ PSI}$
- Flexural capacity is based on stress/strain strand relationships.
- All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

- If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
- Deflection limits were not considered when determining allowable loads in this table.

ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
30 - 6.6 P	8,135	140	127	110	96	83	71	61	52	44	36														
30 - 8.6 P	10,385				140	124	109	96	84	74	64	56	48	41	35										
30 - 10.6 P	12,403								113	101	89	79	70	62	54	47	41	35							
30 - 12.6 P	14,190										111	100	90	80	71	64	56	50	43	37					
30 - 14.6 D	18,319														107	96	87	78	70	63	56	50	44	38	
30 - 16.6 D	20,488																100	90	82	74	66	59	53	47	42
30 - 18.6 D	22,574																	101	92	84	76	68	62	56	50

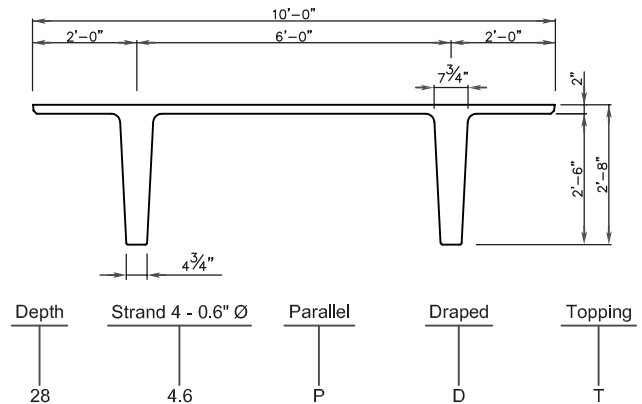
Prestressed Concrete

32" x 10' DOUBLE TEE

(NO TOPPING)

PHYSICAL PROPERTIES

A = 615 in. ²	S _b = 2,718 in. ³
I = 59,720 in. ⁴	S _t = 5,957 in. ³
Y _b = 21.98 in.	Wt. = 641 PLF
Y _t = 10.02 in.	Wt. = 64 PSF



DESIGN DATA

1. Precast Strength @ release = 3,500 PSI.
2. Precast Strength @ release for draped tees = 4,500 PSI.
3. Precast Strength @ 28 days = 6,000 PSI
4. Precast Density = 145 PCF
5. Strand = 0.6" Ø 270K Lo-Relaxation.
6. Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
7. Maximum bottom tensile stress is $12\sqrt{f'_c} = 930$ PSI
8. Flexural capacity is based on stress/strain strand relationships.
9. All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

10. If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
11. Deflection limits were not considered when determining allowable loads in this table.

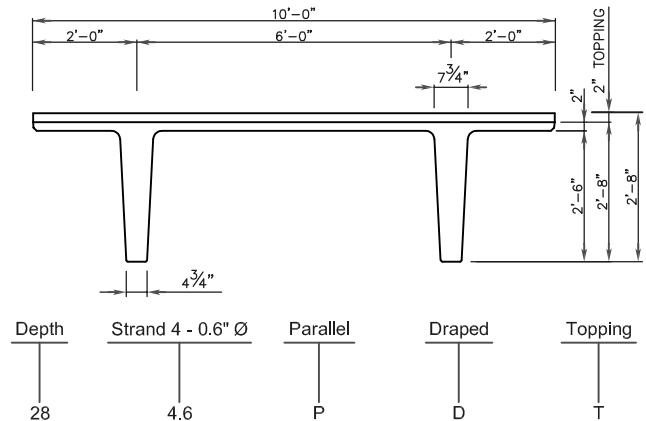
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
32 - 4.6 P	6,076	110	95	82	71	61	53	45	38																
32 - 6.6 P	8,768					110	98	87	77	68	60	53	46	41	35										
32 - 8.6 P	11,228								112	101	90	81	73	66	59	53	47	42	37						
32 - 10.6 P	13,458										118	107	97	88	80	73	66	60	54	49	44	39			
32 - 12.6 P	15,456											119	108	98	89	81	74	67	60	54	49	44	39		
32 - 14.6 D	20,323															123	113	104	95	88	80	74	68	62	57
32 - 16.6 D	22,893																	117	108	99	92	85	78	72	66
32 - 18.6 D	25,390																			110	102	94	87	81	75

Prestressed Concrete
32" x 10' DOUBLE TEE
(2" TOPPING)

PHYSICAL PROPERTIES

$A = 615 \text{ in.}^2$	$S_b = 2,718 \text{ in.}^3$
$I = 59,720 \text{ in.}^4$	$S_t = 5,957 \text{ in.}^3$
$I' = 75,941 \text{ in.}^4$	$S'_{tt} = 11,141 \text{ in.}^3$
$Y_b = 21.98 \text{ in.}$	$Wt. = 641 \text{ PLF}$
$Y_t = 10.02 \text{ in.}$	$Wt. = 64 \text{ PSF}$
$Y'_{bb} = 24.36 \text{ in.}$	$Wt.' = 891 \text{ PLF}$
$Y'_{tt} = 9.64 \text{ in.}$	$Wt.' = 89 \text{ PSF}$



DESIGN DATA

1. Precast Strength @ release = 3,500 PSI.
2. Precast Strength @ release for draped tees = 4,500 PSI.
3. Precast Strength @ 28 days = 6,000 PSI.
4. Topping Strength @ 28 days = 3,000 PSI.
5. Precast / Topping Density = 150 PCF.
6. Strand = 0.6" Ø 270K Lo-Relaxation.
7. Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
8. Maximum bottom tensile stress is $12\sqrt{f'_c} = 930$ PSI.
9. Flexural capacity is based on stress/strain strand relationships.
10. All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

11. If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
12. Deflection limits were not considered when determining allowable loads in this table.

ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)																											
Section	Ø Mn (in. Kips)	SPAN (FEET)																									
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86		
32 - 4.6PT	6,458	101	85	72	60	49	40	32																			
32 - 6.6PT	9,310				116	101	88	76	66	56	48	40	34														
32 - 8.6PT	11,911							116	103	91	80	71	62	54	47	40	34										
32 - 10.6PT	14,260									122	109	98	87	78	69	61	54	47	41	34							
32 - 12.6PT	16,359											122	110	98	87	76	67	58	50	43	36						
32 - 14.6DT	21,319															116	105	94	85	76	67	60	53	46	40		
32 - 16.6DT	23,972																	110	100	90	81	73	65	58	51		
32 - 18.6DT	26,539																		113	103	93	85	77	69	62		

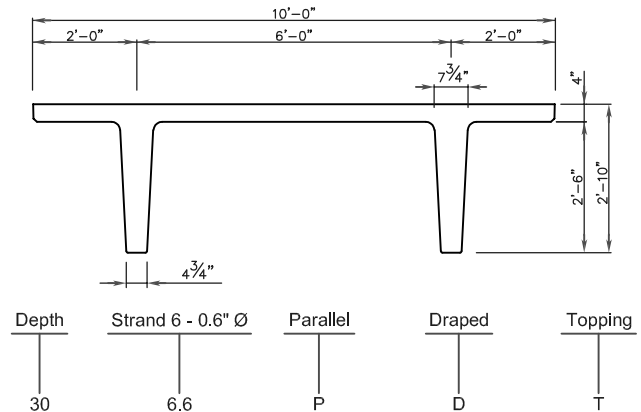


This load table is for general information only for preliminary design. It is not intended for final design without competent professional examination and verification of its accuracy, suitability, and applicability by a licensed professional engineer, designer, or architect. It is for simple spans and uniform loads. Design data for any of these span-load conditions is available on request. Individual designs may be furnished to satisfy unusual conditions of heavy loads, concentrated loads, cantilevers, flange or stem openings and narrow widths.

Prestressed Concrete 34" x 10' DOUBLE TEE (PRETOPPED)

PHYSICAL PROPERTIES

$A = 855 \text{ in.}^2$	$S_b = 3,222 \text{ in.}^3$
$I = 80,781 \text{ in.}^4$	$S_t = 9,046 \text{ in.}^3$
$Y_b = 25.07 \text{ in.}$	$W_t = 891 \text{ PLF}$
$Y_t = 8.93 \text{ in.}$	$W_t = 89 \text{ PSF}$



DESIGN DATA

- Precast Strength @ release = 3,500 PSI.
- Precast Strength @ release for draped tees = 4,500 PSI.
- Precast Strength @ 28 days = 6,000 PSI
- Precast Density = 145 PCF
- Strand = 0.6" Ø 270K Lo-Relaxation.
- Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
- Maximum bottom tensile stress is $12\sqrt{f_c} = 930 \text{ PSI}$
- Flexural capacity is based on stress/strain strand relationships.
- All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

- If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
- Deflection limits were not considered when determining allowable loads in this table.

ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
34 - 6.6 P	9,401	135	118	103	89	78	67	58	49	41	35														
34 - 8.6 P	12,072					119	105	93	82	72	64	55	48	41	35										
34 - 10.6 P	14,512								112	101	90	80	71	63	56	49	43	37							
34 - 12.6 P	16,721										114	103	93	83	67	75	60	53	47	42	36				
34 - 14.6 D	21,800														116	105	96	87	79	71	64	58	51	46	40
34 - 16.6 D	24,580																111	102	93	85	77	70	63	57	51
34 - 18.6 D	27,277																	115	106	97	89	81	74	67	61

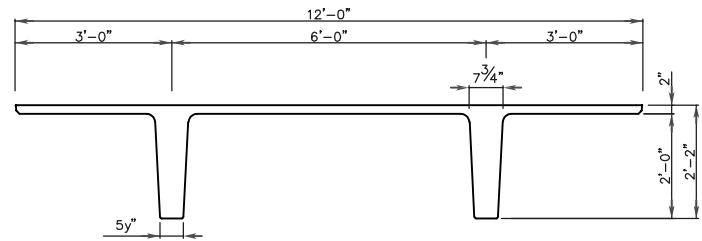
Prestressed Concrete

26" x 12' DOUBLE TEE

(NO TOPPING)

PHYSICAL PROPERTIES

A = 602 in. ²	S _b = 2,024 in. ³
I = 37,638 in. ⁴	S _t = 5,085 in. ³
Y _b = 18.60 in.	Wt. = 627 PLF
Y _t = 7.40 in.	Wt. = 52 PSF



Depth	Strand 4 - 0.6" Ø	Parallel	Draped	Topping
28	4.6	P	D	T

DESIGN DATA

- Precast Strength @ release = 3,500 PSI.
- Precast Strength @ release for draped tees = 4,500 PSI.
- Precast Strength @ 28 days = 6,000 PSI
- Precast Density = 145 PCF
- Strand = 0.6" Ø 270K Lo-Relaxation.
- Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
- Maximum bottom tensile stress is $12\sqrt{f_c} = 930$ PSI
- Flexural capacity is based on stress/strain strand relationships.
- All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

- If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
- Deflection limits were not considered when determining allowable loads in this table.

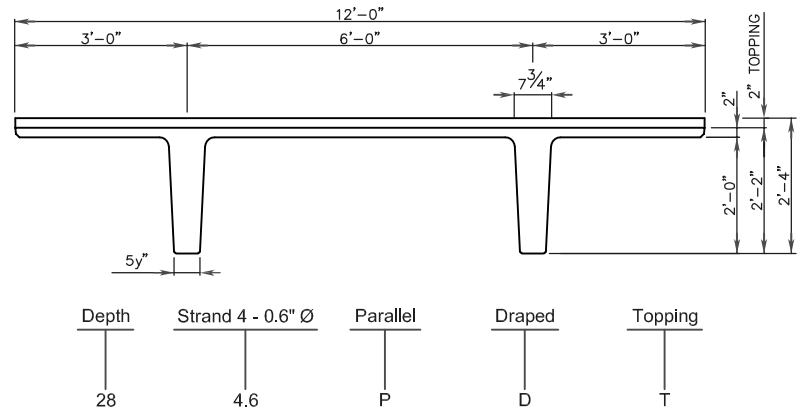
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84
26 - 4.6 P	4,818	76	65	55	47	39																			
26 - 6.6 P	6,885	126	110	96	84	73	64	56	49	42	37														
26 - 8.6 P	9,568				117	103	92	81	72	64	57	50	44	39											
26 - 10.6 P	10,336						116	104	93	83	75	67	60	54	48	43	38								
26 - 12.6 P	11,720								111	100	90	81	73	65	58	52	46	41	36						
26 - 14.6 D	15,997											114	104	94	86	78	71	65	59	53	49	44	39		
26 - 16.6 D	17,938												115	105	96	88	80	73	67	61	56	51	46	42	38
26 - 18.6 D	19,820													115	105	97	88	81	74	68	62	57	52	48	43

Prestressed Concrete 26" x 12' DOUBLE TEE (2" TOPPING)

PHYSICAL PROPERTIES

$A = 602 \text{ in.}^2$	$S_b = 2,024 \text{ in.}^3$
$I = 37,368 \text{ in.}^4$	$S_t = 5,085 \text{ in.}^3$
$I' = 48,451 \text{ in.}^4$	$S_{tt}' = 9,413 \text{ in.}^3$
$Y_b = 18.60 \text{ in.}$	$W_t = 627 \text{ PLF}$
$Y_t = 7.40 \text{ in.}$	$W_t = 52 \text{ PSF}$
$Y_{bb}' = 20.72 \text{ in.}$	$W_{t.}' = 927 \text{ PLF}$
$Y_{tt}' = 7.28 \text{ in.}$	$W_{t.}' = 77 \text{ PSF}$



DESIGN DATA

1. Precast Strength @ release = 3,500 PSI.
2. Precast Strength @ release for draped tees = 4,500 PSI.
3. Precast Strength @ 28 days = 6,000 PSI.
4. Topping Strength @ 28 days = 3,000 PSI.
5. Precast / Topping Density = 150 PCF.
6. Strand = 0.6" Ø 270K Lo-Relaxation.
7. Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
8. Maximum bottom tensile stress is $12\sqrt{f'_c} = 930 \text{ PSI}$.
9. Flexural capacity is based on stress/strain strand relationships.
10. All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

11. If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
12. Deflection limits were not considered when determining allowable loads in this table.

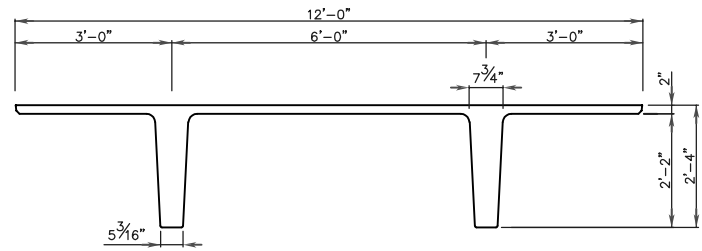
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																											
		34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80				
26 - 4.6PT	5,206	98	81	67	55	44	35																						
26 - 6.6PT	7,442			121	103	88	75	64	54	45	37																		
26 - 8.6PT	9,443						111	97	84	73	63	54	46	39															
26 - 10.6PT	11,180								110	97	85	75	65	56	47	39	31												
26 - 12.6PT	12,678									118	104	95	85	75	66	57	50	43	37										
26 - 14.6DT	17,041												121	107	95	85	75	66	57	50	43	37							
26 - 16.6DT	19,097													122	109	98	87	77	69	61	53	46	40	34					
26 - 18.6DT	21,043														122	110	98	88	79	70	62	55	48	42	36				

Prestressed Concrete 28" x 12' DOUBLE TEE (NO TOPPING)

PHYSICAL PROPERTIES

A = 624 in. ²	S _b = 2,289 in. ³
I = 45,595 in. ⁴	S _t = 5,643 in. ³
Y _b = 19.92 in.	Wt. = 650 PLF
Y _t = 8.08 in.	Wt. = 54 PSF



Depth	Strand 4 - 0.6" Ø	Parallel	Draped	Topping
28	4.6	P	D	T

DESIGN DATA

- Precast Strength @ release = 3,500 PSI.
- Precast Strength @ release for draped tees = 4,500 PSI.
- Precast Strength @ 28 days = 6,000 PSI
- Precast Density = 145 PCF
- Strand = 0.6" Ø 270K Lo-Relaxation.
- Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
- Maximum bottom tensile stress is $12\sqrt{f_c} = 930$ PSI
- Flexural capacity is based on stress/strain strand relationships.
- All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

- If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
- Deflection limits were not considered when determining allowable loads in this table.

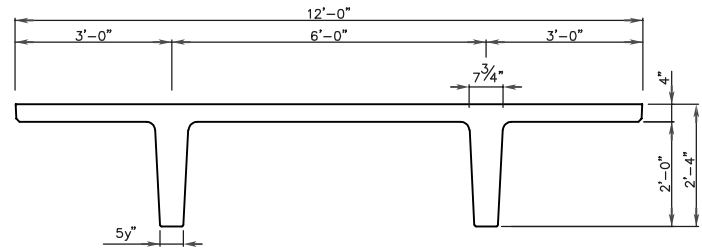
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
28 - 4.6 P	5,239	73	62	53	45	38																			
28 - 6.6 P	7,517	115	101	89	78	71	63	55	48	42	36														
28 - 8.6 P	9,568	159	143	130	116	103	92	82	73	65	58	51	45	40											
28 - 10.6 P	11,390				146	131	117	105	95	85	76	69	62	55	50	44	40								
28 - 12.6 P	12,985								111	103	93	84	76	68	61	55	49	44	39						
28 - 14.6 D	16,926											103	94	86	78	71	64	59	53	48	44	39			
28 - 16.6 D	18,909													105	96	87	80	73	66	61	55	50	46	41	37
28 - 18.6 D	20,812														105	96	88	81	74	68	62	56	51	47	43

Prestressed Concrete 28" x 12' DOUBLE TEE (PRETOPPED)

PHYSICAL PROPERTIES

A = 890 in. ²	S _b = 2,416 in. ³
I = 51,490 in. ⁴	S _t = 7,703 in. ³
Y _b = 21.32 in.	Wt. = 928 PLF
Y _t = 6.68 in.	Wt. = 77 PSF



Depth	Strand 6 - 0.6" Ø	Parallel	Draped	Topping
30	6.6	P	D	T

DESIGN DATA

- Precast Strength @ release = 3,500 PSI.
- Precast Strength @ release for draped tees = 4,500 PSI.
- Precast Strength @ 28 days = 6,000 PSI
- Precast Density = 145 PCF
- Strand = 0.6" Ø 270K Lo-Relaxation.
- Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
- Maximum bottom tensile stress is $12\sqrt{f_c} = 930$ PSI
- Flexural capacity is based on stress/strain strand relationships.
- All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

- If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
- Deflection limits were not considered when determining allowable loads in this table.

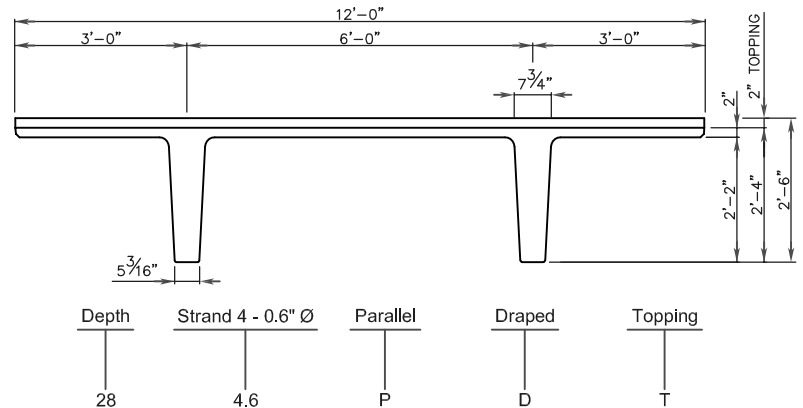
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84
28 - 6.6 P	7,517	122	105	89	76	55	46	38																	
28 - 8.6 P	9,568			130	113	99	86	74	64	55	47	40	34												
28 - 10.6 P	11,390					128	113	100	88	77	68	59	51	44	38										
28 - 12.6 P	12,985							122	108	96	85	76	67	59	52	45	39								
28 - 14.6 D	17,453											118	106	95	85	76	68	61	54	47	41	36			
28 - 16.6 D	19,626												122	109	98	89	80	72	64	57	51	45	40	35	
28 - 18.6 D	21,719													122	110	100	90	82	74	66	60	53	47	42	37

Prestressed Concrete 28" x 12' DOUBLE TEE (2" TOPPING)

PHYSICAL PROPERTIES

$A = 624 \text{ in.}^2$	$S_b = 2,289 \text{ in.}^3$
$I = 45,595 \text{ in.}^4$	$S_t = 5,643 \text{ in.}^3$
$I' = 58,325 \text{ in.}^4$	$S_{tt}' = 10,512 \text{ in.}^3$
$Y_b = 19.92 \text{ in.}$	$Wt. = 650 \text{ PLF}$
$Y_t = 8.08 \text{ in.}$	$Wt. = 54 \text{ PSF}$
$Y_{bb}' = 22.15 \text{ in.}$	$Wt.' = 950 \text{ PLF}$
$Y_{tt}' = 7.85 \text{ in.}$	$Wt.' = 79 \text{ PSF}$



DESIGN DATA

- Precast Strength @ release = 3,500 PSI.
- Precast Strength @ release for draped tees = 4,500 PSI.
- Precast Strength @ 28 days = 6,000 PSI.
- Topping Strength @ 28 days = 3,000 PSI.
- Precast / Topping Density = 150 PCF.
- Strand = 0.6" Ø 270K Lo-Relaxation.
- Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
- Maximum bottom tensile stress is $12\sqrt{f'_c} = 930 \text{ PSI}$.
- Flexural capacity is based on stress/strain strand relationships.
- All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

- If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
- Deflection limits were not considered when determining allowable loads in this table.

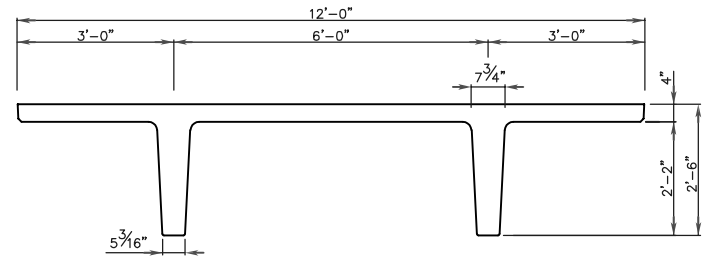
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84
28 - 4.6PT	5,628	75	62	51	41	32																			
28 - 6.6PT	8,074			99	85	73	62	52	44	36	30														
28 - 8.6PT	10,277						95	83	72	62	54	46	39	33											
28 - 10.6PT	12,234								97	86	76	66	58	50	42	34									
28 - 12.6PT	13,947									106	95	82	72	62	53	45	37								
28 - 14.6DT	18,517													99	88	78	69	61	53	46	40	34			
28 - 16.6DT	20,785														102	91	82	73	64	57	50	44	38		
28 - 18.6DT	22,960															103	93	83	75	67	59	52	46	40	35

Prestressed Concrete 30" x 12' DOUBLE TEE (PRETOPPED)

PHYSICAL PROPERTIES

A = 912 in. ²	S _b = 2,718 in. ³
I = 61,942 in. ⁴	S _t = 8,586 in. ³
Y _b = 22.79 in.	Wt. = 950 PLF
Y _t = 7.21 in.	Wt. = 79 PSF



Depth	Strand 6 - 0.6" Ø	Parallel	Draped	Topping
30	6.6	P	D	T

DESIGN DATA

1. Precast Strength @ release = 3,500 PSI.
2. Precast Strength @ release for draped tees = 4,500 PSI.
3. Precast Strength @ 28 days = 6,000 PSI
4. Precast Density = 145 PCF
5. Strand = 0.6" Ø 270K Lo-Relaxation.
6. Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
7. Maximum bottom tensile stress is $12\sqrt{f_c} = 930$ PSI
8. Flexural capacity is based on stress/strain strand relationships.
9. All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

10. If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
11. Deflection limits were not considered when determining allowable loads in this table.

ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
30 - 6.6 P	8,150	117	101	86	74	63	53	45	37																
30 - 8.6 P	10,412			127	111	97	85	74	64	55	48	41	34												
30 - 10.6 P	12,445					128	113	100	88	78	69	60	53	46	39										
30 - 12.6 P	14,251								110	98	87	78	69	61	54	47	41	36							
30 - 14.6 D	18,402									143	129	117	105	94	84	76	68	60	53	47	41	36			
30 - 16.6 D	20,596													107	97	87	79	71	63	57	50	45	39		
30 - 18.6 D	22,710														108	98	89	81	73	65	59	53	47	42	37

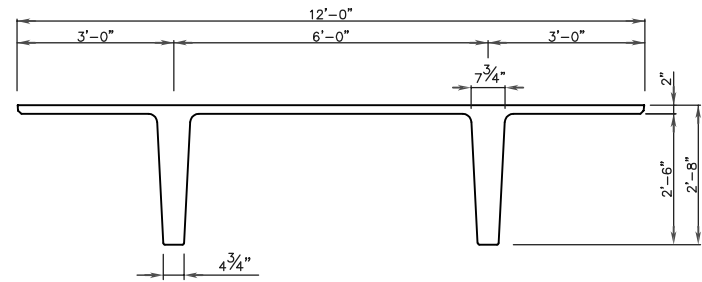
Prestressed Concrete

32" x 12' DOUBLE TEE

(NO TOPPING)

PHYSICAL PROPERTIES

A = 663 in. ²	S _b = 2,800 in. ³
I = 63,362 in. ⁴	S _t = 6,761 in. ³
Y _b = 22.63 in.	Wt. = 691 PLF
Y _t = 9.37 in.	Wt. = 69 PSF



DESIGN DATA

1. Precast Strength @ release = 3,500 PSI.
2. Precast Strength @ release for draped tees = 4,500 PSI.
3. Precast Strength @ 28 days = 6,000 PSI
4. Precast Density = 145 PCF
5. Strand = 0.6" Ø 270K Lo-Relaxation.
6. Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
7. Maximum bottom tensile stress is $12\sqrt{f_c} = 930$ PSI
8. Flexural capacity is based on stress/strain strand relationships.
9. All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

10. If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
11. Deflection limits were not considered when determining allowable loads in this table.

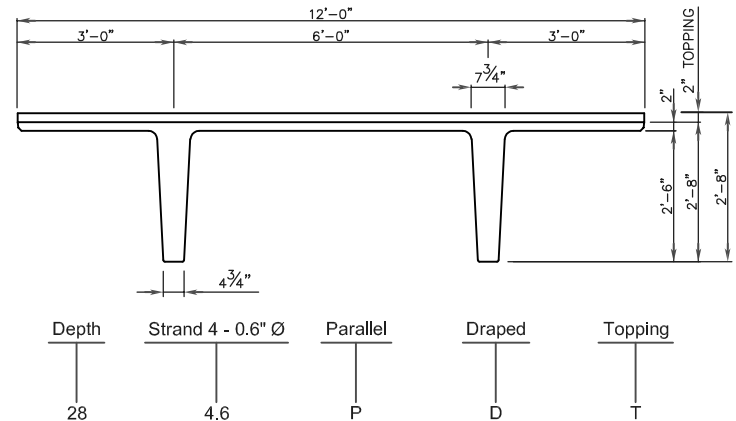
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
32 - 4.6 P	6,083	88	76	65	56	48	41	34																	
32 - 6.6 P	8,783				100	89	78	69	61	54	47	41	36												
32 - 8.6 P	11,255							101	90	81	72	65	58	52	46	41	36								
32 - 10.6 P	13,500									106	96	87	78	71	64	58	52	47	42	37					
32 - 12.6 P	15,516											106	96	88	80	73	66	60	55	50	45	39			
32 - 14.6 D	20,406														111	102	94	86	79	72	66	60	55	50	46
32 - 16.6 D	23,001															115	106	98	89	82	76	70	64	59	54
32 - 18.6 D	25,516																116	107	99	92	85	78	72	67	61

Prestressed Concrete 32" x 12' DOUBLE TEE (2" TOPPING)

PHYSICAL PROPERTIES

$A = 663 \text{ in.}^2$	$S_b = 2,800 \text{ in.}^3$
$I = 63,362 \text{ in.}^4$	$S_t = 6,761 \text{ in.}^3$
$I' = 80,187 \text{ in.}^4$	$S_{tt}' = 12,693 \text{ in.}^3$
$Y_b = 22.63 \text{ in.}$	$Wt. = 691 \text{ PLF}$
$Y_t = 9.37 \text{ in.}$	$Wt. = 58 \text{ PSF}$
$Y_{bb}' = 25.07 \text{ in.}$	$Wt.' = 991 \text{ PLF}$
$Y_{tt}' = 8.93 \text{ in.}$	$Wt.' = 83 \text{ PSF}$



DESIGN DATA

1. Precast Strength @ release = 3,500 PSI.
2. Precast Strength @ release for draped tees = 4,500 PSI.
3. Precast Strength @ 28 days = 6,000 PSI.
4. Topping Strength @ 28 days = 3,000 PSI.
5. Precast / Topping Density = 150 PCF.
6. Strand = 0.6" Ø 270K Lo-Relaxation.
7. Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
8. Maximum bottom tensile stress is $12\sqrt{f'_c} = 930 \text{ PSI}$.
9. Flexural capacity is based on stress/strain strand relationships.
10. All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

11. If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
12. Deflection limits were not considered when determining allowable loads in this table.

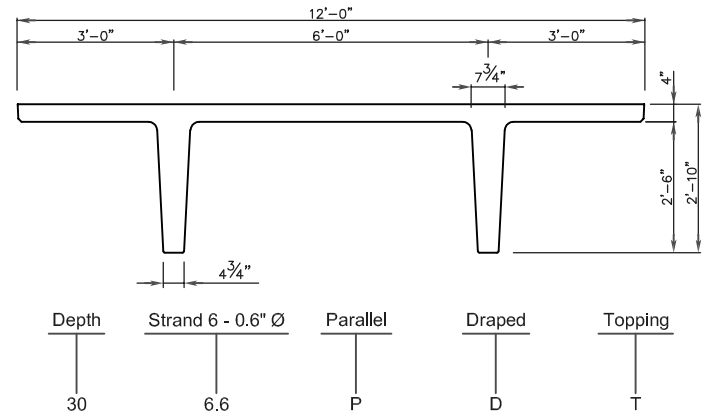
ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
32 - 4.6PT	6,471	78	65	54	44	35																			
32 - 6.6PT	9,340		121	105	91	78	67	57	49	41	34														
32 - 8.6PT	11,964					118	104	91	80	70	61	53	46	39											
32 - 10.6PT	14,344							122	108	96	86	76	67	59	52	45	39								
32 - 12.6PT	16,479									120	108	97	86	77	67	58	50	43	36						
32 - 14.6DT	21,470													114	103	92	82	73	65	58	51	44	38		
32 - 16.6DT	24,158															107	97	87	78	70	62	55	49	43	37
32 - 18.6DT	26,760																110	99	90	81	73	66	59	52	46

Prestressed Concrete 34" x 12' DOUBLE TEE (PRETOPPED)

PHYSICAL PROPERTIES

A = 951 in. ²	S _b = 3,301 in. ³
I = 85,054 in. ⁴	S _t = 10,334 in. ³
Y _b = 25.77 in.	Wt. = 991 PLF
Y _t = 8.23 in.	Wt. = 83 PSF



DESIGN DATA

- Precast Strength @ release = 3,500 PSI.
- Precast Strength @ release for draped tees = 4,500 PSI.
- Precast Strength @ 28 days = 6,000 PSI
- Precast Density = 145 PCF
- Strand = 0.6" Ø 270K Lo-Relaxation.
- Maximum moment capacity is critical at midspan for parallel strands and is critical near 0.4 span for draped strands.
- Maximum bottom tensile stress is $12\sqrt{f_c} = 930$ PSI
- Flexural capacity is based on stress/strain strand relationships.
- All superimposed load is treated as live load in the flexural strength analysis. To determine the allowable live load if the amount of superimposed dead load is known use the following conversion method...

$$\text{Allowable Live Load} = \frac{(1.6)(\text{Load Table Value}) - (1.2)(\text{Superimposed Dead Load})}{1.6}$$

- If the above conversion is used then allowable stress limits must be checked so they are not exceeded.
- Deflection limits were not considered when determining allowable loads in this table.

ALLOWABLE SUPERIMPOSED LIVE LOADS (psf)

Section	Ø Mn (in. Kips)	SPAN (FEET)																							
		44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
34 - 6.6 P	9,416	106	92	79	68	58	50	42	35																
34 - 8.6 P	12,099				106	93	82	72	62	54	47	40	34												
34 - 10.6 P	14,554							99	88	78	69	61	54	47	41	35									
34 - 12.6 P	16,782									99	89	80	71	64	56	50	44	38							
34 - 14.6 D	21,882												111	101	92	83	76	68	61	55	49	43	38		
34 - 16.6 D	24,688														107	98	89	81	74	66	59	53	48	42	37
34 - 18.6 D	27,414															110	101	92	84	76	69	63	57	51	46