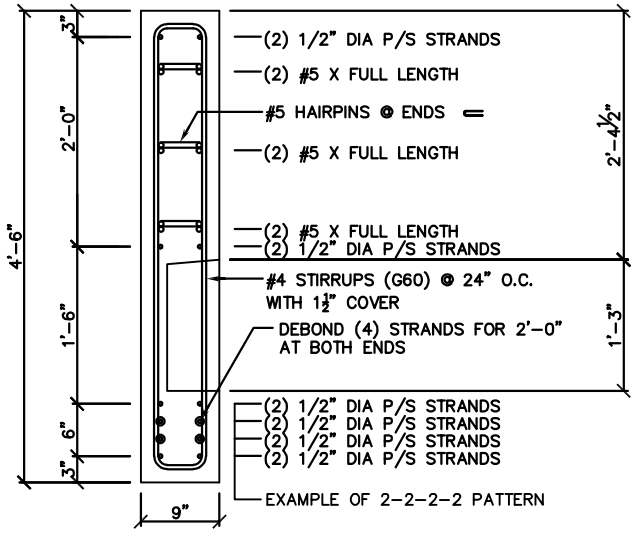
Prestressed Concrete
Spandrel Panel 9SP54

PHYSICAL PROPERTIES

$A = 486$ in.^{2}	$S_b = 4{,}374$ in.^{3}
$I = 118{,}098$ in.^{4}	$S_t = 4{,}374$ in.^{3}
$Y_b = 27.00$ in.	Wt.= 506 PLF
$Y_t = 27.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

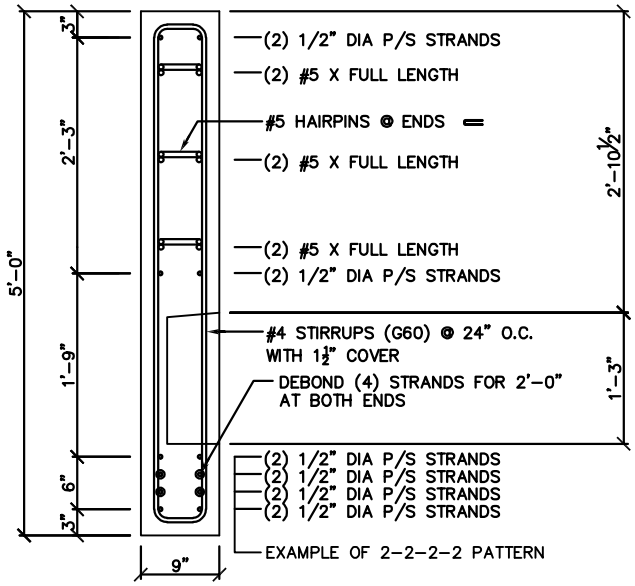
Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0	2	2	6 - #5	None	9,515 "k	9.41	6.50	4.02	2.67	2.09	1.34
2 - 2 - 2 - 0	2	2	6 - #5	2 Strands For 2'-0" At Ends	12,239 "k	11.04	8.08	5.13	3.55	2.80	1.83
2 - 2 - 2 - 2	2	2	6 - #5	4 Strands For 2'-0" At Ends	14,735 "k	12.52	9.54	6.15	4.31	3.45	2.28

NITTERHOUSE CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

Prestressed Concrete
Spandrel Panel 9SP60

PHYSICAL PROPERTIES

$A = 540$ in.^{2}	$S_b = 5{,}400$ in.^{3}
$I = 162{,}000$ in.^{4}	$S_t = 5{,}400$ in.^{3}
$Y_b = 30.00$ in.	Wt.= 563 PLF
$Y_t = 30.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

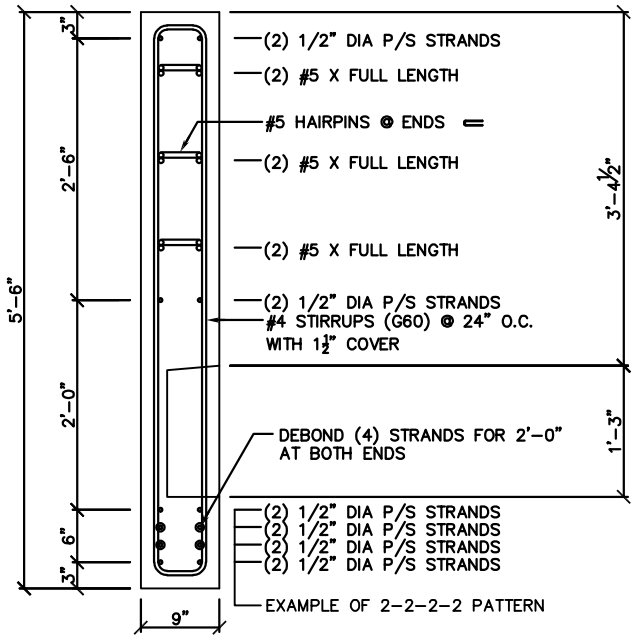
Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0	2	2	6 - #5	None	10,781 "k	10.66	7.37	4.56	3.04	2.38	1.52
2 - 2 - 2 - 0	2	2	6 - #5	2 Strands For 2'-0" At Ends	13,944 "k	12.58	9.22	5.86	4.06	3.20	2.09
2 - 2 - 2 - 2	2	2	6 - #5	4 Strands For 2'-0" At Ends	16,860 "k	14.32	10.92	7.05	4.95	3.96	2.62

NITTERHOUSE
CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

Prestressed Concrete
Spandrel Panel 9SP66

PHYSICAL PROPERTIES

$A = 594$ in.^{2}	$S_b = 6{,}534$ in.^{3}
$I = 215{,}622$ in.^{4}	$S_t = 6{,}534$ in.^{3}
$Y_b = 33.00$ in.	Wt.= 619 PLF
$Y_t = 33.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0	2	2	6 - #5	None	11,919 "k	11.78	8.15	5.05	3.36	2.63	1.69
2 - 2 - 2 - 0	2	2	6 - #5	2 Strands For 2'-0" At Ends	15,522 "k	13.98	10.26	6.53	4.52	3.57	2.34
2 - 2 - 2 - 2	2	2	6 - #5	4 Strands For 2'-0" At Ends	18,880 "k	16.00	12.23	7.90	5.55	4.45	2.95

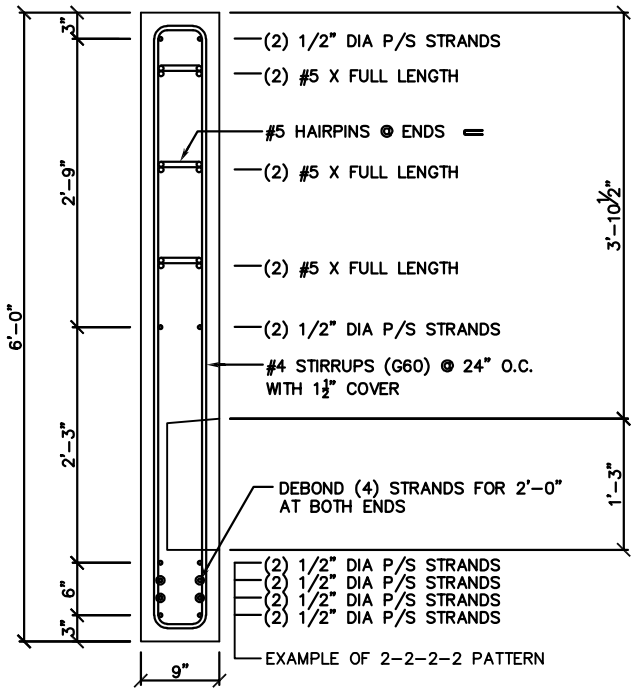
NITTERHOUSE
CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

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
Spandrel Panel 9SP72

PHYSICAL PROPERTIES

$A = 648$ in.^{2}	$S_b = 7{,}776$ in.^{3}
$I = 279{,}936$ in.^{4}	$S_t = 7{,}776$ in.^{3}
$Y_b = 36.00$ in.	Wt.= 675 PLF
$Y_t = 36.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

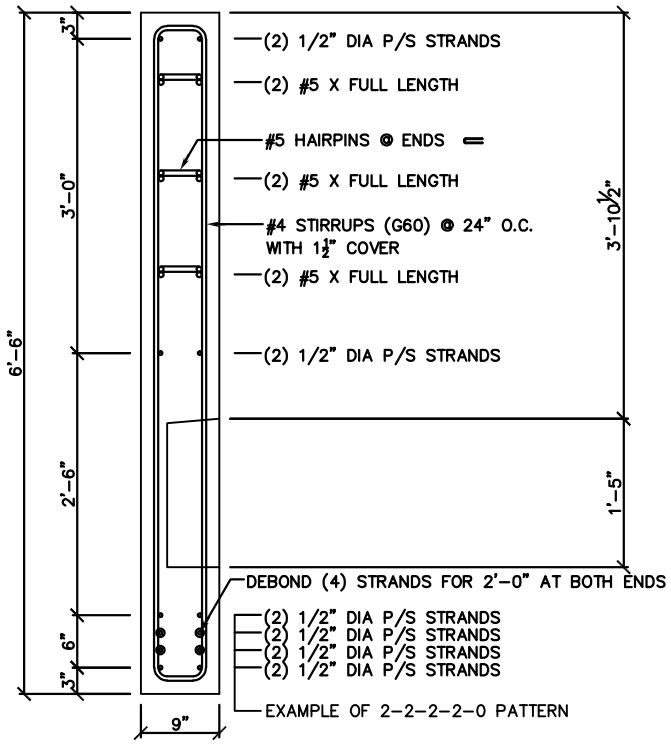
Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0	2	2	6 - #5	None	13,160 "k	13.01	9.01	5.58	3.72	2.92	1.87
2 - 2 - 2 - 0	2	2	6 - #5	2 Strands For 2'-0" At Ends	17,224 "k	15.51	11.40	7.25	5.03	3.97	2.60
2 - 2 - 2 - 2	2	2	6 - #5	4 Strands For 2'-0" At Ends	21,003 "k	17.80	13.61	8.80	6.18	4.96	3.29

NITTERHOUSE
CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

Prestressed Concrete
Spandrel Panel 9SP78

PHYSICAL PROPERTIES

$A = 702$ in.^{2}	$S_b = 9{,}126$ in.^{3}
$I = 355{,}914$ in.^{4}	$S_t = 9{,}126$ in.^{3}
$Y_b = 39.00$ in.	Wt.= 731 PLF
$Y_t = 39.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

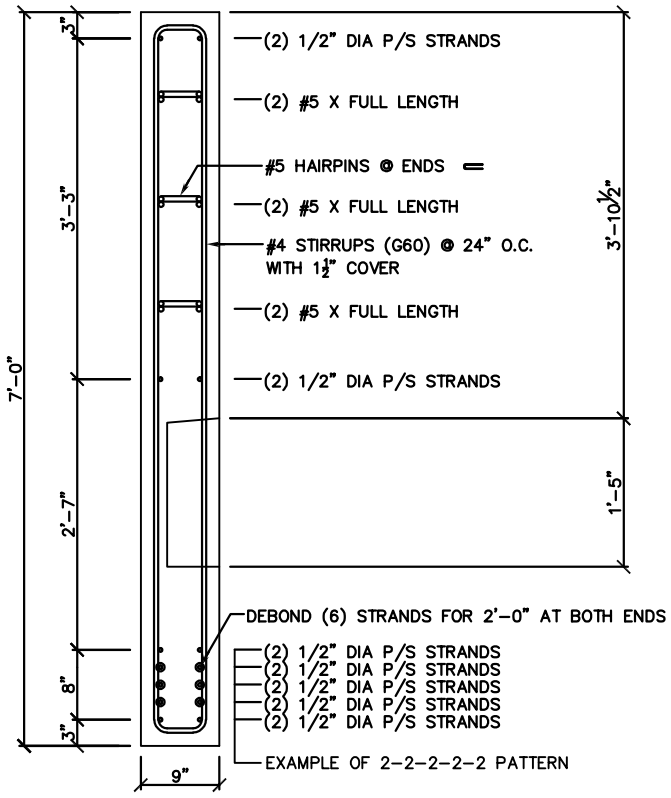
Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0 - 0	2	2	6 - #5	None	14,435 "k	14.28	9.89	6.13	4.09	3.21	2.06
2 - 2 - 2 - 0 - 0	2	2	6 - #5	2 Strands For 2'-0" At Ends	18,930 "k	17.04	12.54	7.98	5.53	4.38	2.87
2 - 2 - 2 - 2 - 0	2	2	6 - #5	4 Strands For 2'-0" At Ends	23,065 "k	19.61	14.96	9.67	6.80	5.45	3.62
2 - 2 - 2 - 2 - 2	2	2	6 - #5	6 Strands For 2'-0" At Ends	26,973 "k	21.91	16.95	11.29	7.97	6.47	4.32

NITTERHOUSE
CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

Prestressed Concrete
Spandrel Panel 9SP84

PHYSICAL PROPERTIES

$A = 756$ in.^{2}	$S_b = 10{,}584$ in.^{3}
$I = 444{,}528$ in.^{4}	$S_t = 10{,}584$ in.^{3}
$Y_b = 42.00$ in.	Wt.= 788 PLF
$Y_t = 42.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

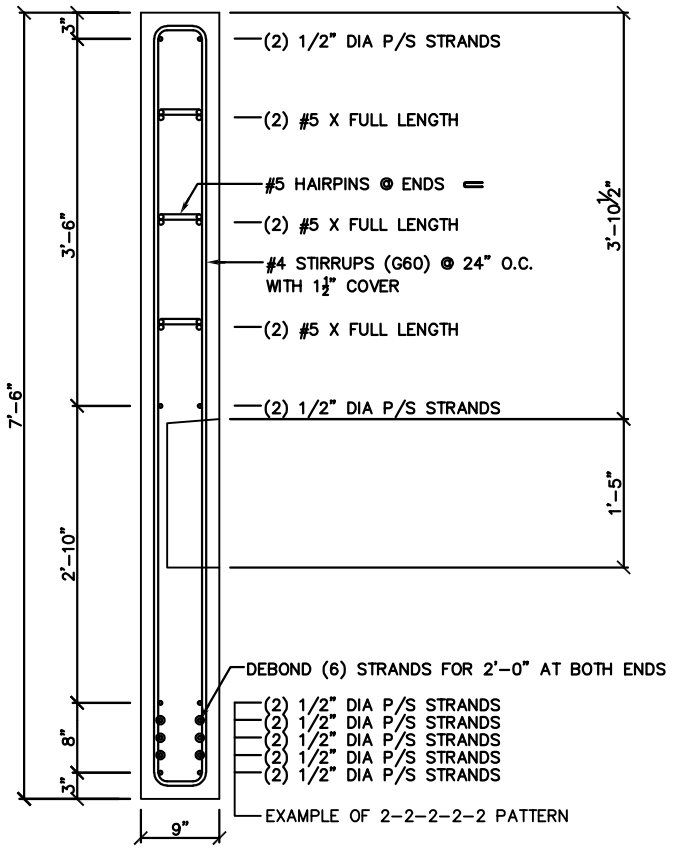
Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0 - 0	2	2	6 - #5	None	15,705 "k	15.54	10.76	6.67	4.45	3.49	2.24
2 - 2 - 2 - 0 - 0	2	2	6 - #5	2 Strands For 2'-0" At Ends	20,703 "k	18.62	13.71	8.73	6.06	4.80	3.15
2 - 2 - 2 - 2 - 0	2	2	6 - #5	4 Strands For 2'-0" At Ends	25,321 "k	21.50	16.43	10.63	7.48	6.00	3.98
2 - 2 - 2 - 2 - 2	2	2	6 - #5	6 Strands For 2'-0" At Ends	29,664 "k	23.74	18.65	12.43	8.78	7.13	4.77

NITTERHOUSE
CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

Prestressed Concrete
Spandrel Panel 9SP90

PHYSICAL PROPERTIES

$A = 810$ in.^{2}	$S_b = 12{,}150$ in.^{3}
$I = 546{,}750$ in.^{4}	$S_t = 12{,}150$ in.^{3}
$Y_b = 45.00$ in.	Wt.= 844 PLF
$Y_t = 45.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0 - 0	2	2	6 - #5	None	17,180 "k	17.02	11.79	7.32	4.89	3.84	2.47
2 - 2 - 2 - 0 - 0	2	2	6 - #5	2 Strands For 2'-0" At Ends	22,610 "k	20.36	14.99	9.55	6.63	5.25	3.45
2 - 2 - 2 - 2 - 0	2	2	6 - #5	4 Strands For 2'-0" At Ends	27,510 "k	23.32	17.86	11.55	8.13	6.53	4.34
2 - 2 - 2 - 2 - 2	2	2	6 - #5	6 Strands For 2'-0" At Ends	32,248 "k	25.72	20.30	13.52	9.55	7.76	5.19

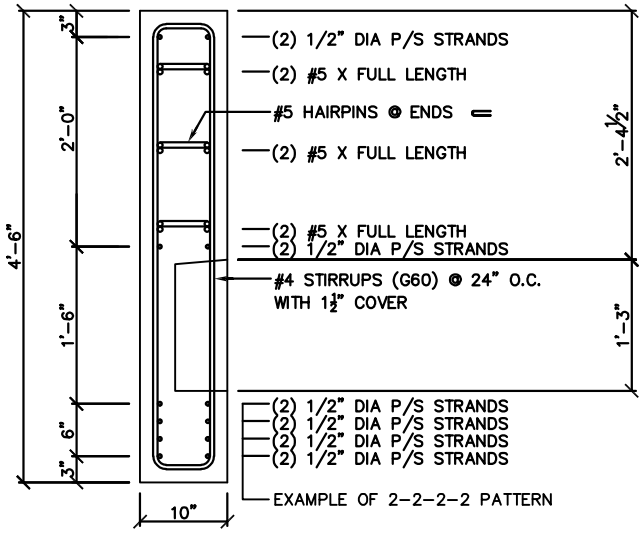
NITTERHOUSE
CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

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
Spandrel Panel 10SP54

PHYSICAL PROPERTIES

$A = 540$ in.^{2}	$S_b = 4{,}860$ in.^{3}
$I = 131{,}220$ in.^{4}	$S_t = 4{,}860$ in.^{3}
$Y_b = 27.00$ in.	Wt.= 563 PLF
$Y_t = 27.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

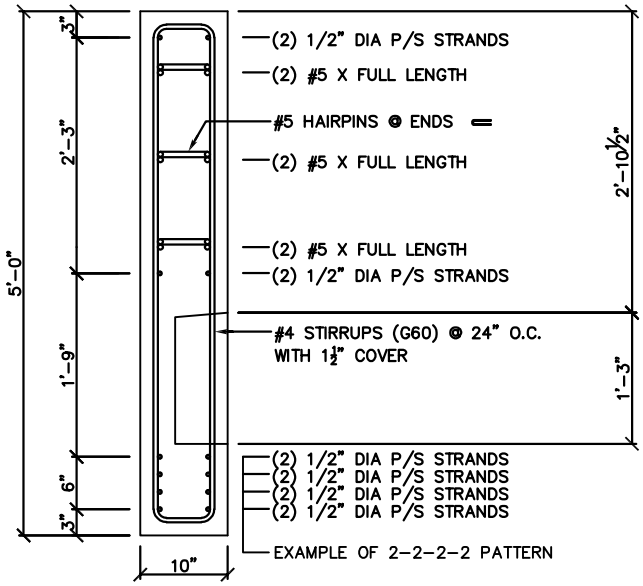
Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0	2	2	6 - #5	None	9,673 "k	9.65	6.57	4.05	2.68	2.09	1.32
2 - 2 - 2 - 0	2	2	6 - #5	None	12,481 "k	12.57	8.60	5.35	3.59	2.82	1.83
2 - 2 - 2 - 2	2	2	6 - #5	None	15,026 "k	15.22	10.44	6.53	4.40	3.49	2.29

NITTERHOUSE CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

Prestressed Concrete
Spandrel Panel 10SP60

PHYSICAL PROPERTIES

$A = 600$ in.^{2}	$S_b = 6{,}000$ in.^{3}
$I = 180{,}000$ in.^{4}	$S_t = 6{,}000$ in.^{3}
$Y_b = 30.00$ in.	Wt.= 625 PLF
$Y_t = 30.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

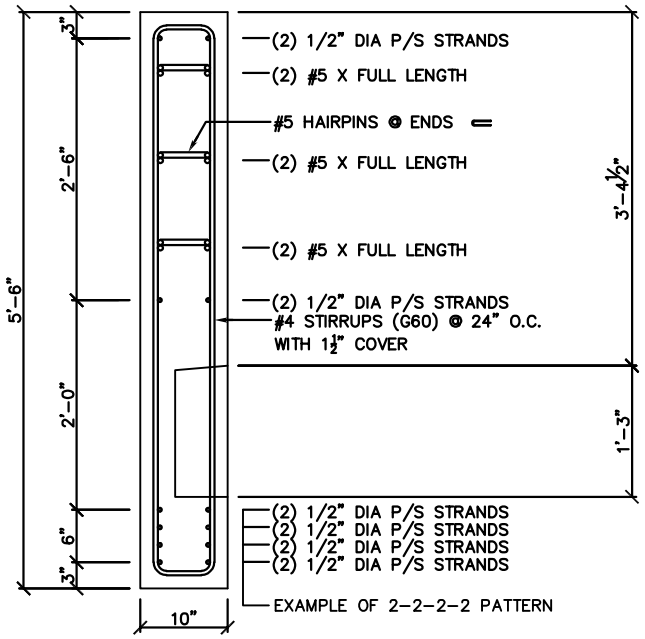
Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0	2	2	6 - #5	None	10,892 "k	10.87	7.41	4.57	3.03	2.36	1.50
2 - 2 - 2 - 0	2	2	6 - #5	None	14,173 "k	14.29	9.78	6.09	4.08	3.22	2.09
2 - 2 - 2 - 2	2	2	6 - #5	None	17,152 "k	17.39	11.93	7.47	5.04	3.99	2.63

NITTERHOUSE
CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

Prestressed Concrete
Spandrel Panel 10SP66

PHYSICAL PROPERTIES

$A = 660$ in.^{2}	$S_b = 7{,}260$ in.^{3}
$I = 239{,}580$ in.^{4}	$S_t = 7{,}260$ in.^{3}
$Y_b = 33.00$ in.	Wt.= 688 PLF
$Y_t = 33.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

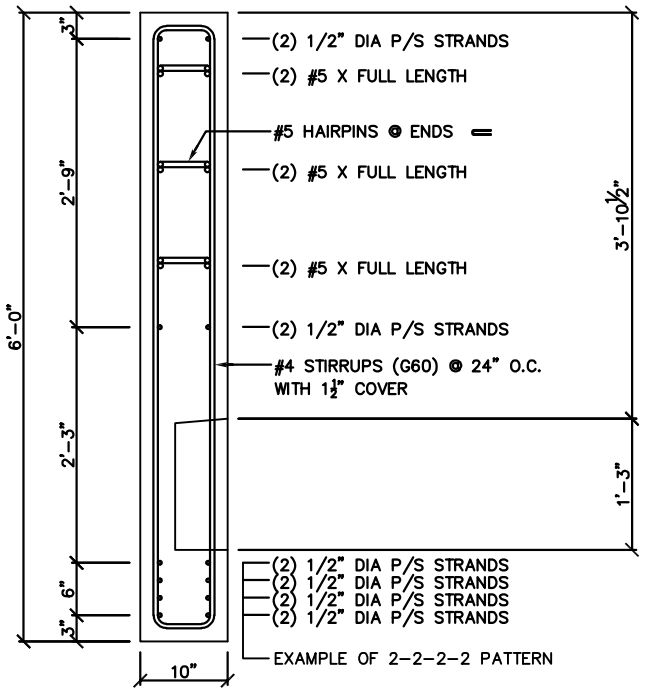
Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0	2	2	6 - #5	None	12,010 "k	11.99	8.17	5.04	3.34	2.61	1.65
2 - 2 - 2 - 0	2	2	6 - #5	None	15,738 "k	15.87	10.86	6.77	4.54	3.58	2.33
2 - 2 - 2 - 2	2	2	6 - #5	None	19,168 "k	19.45	13.34	8.35	5.64	4.47	2.95

NITTERHOUSE
CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

Prestressed Concrete
Spandrel Panel 10SP72

PHYSICAL PROPERTIES

$A = 720$ in.^{2}	$S_b = 8{,}640$ in.^{3}
$I = 311{,}040$ in.^{4}	$S_t = 8{,}640$ in.^{3}
$Y_b = 36.00$ in.	Wt.= 750 PLF
$Y_t = 36.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

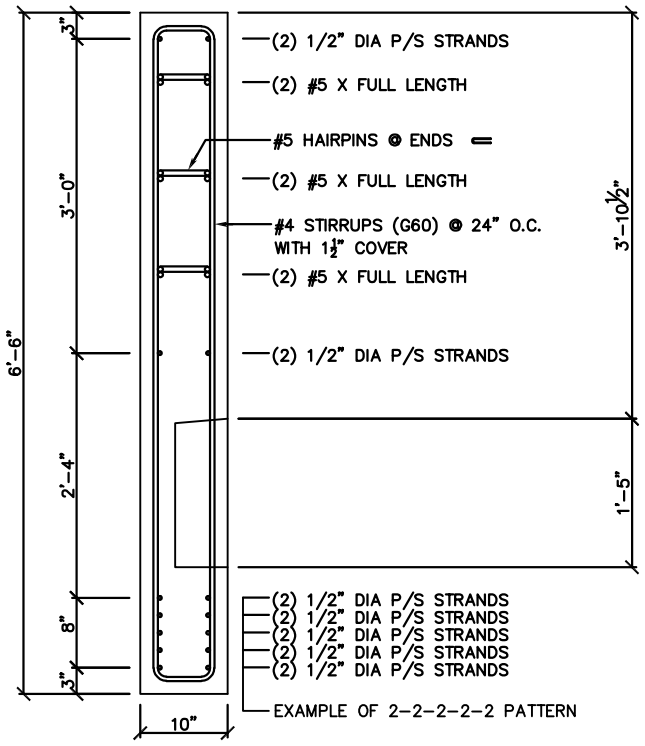
Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0	2	2	6 - #5	None	13,228 "k	13.21	9.00	5.56	3.69	2.88	1.82
2 - 2 - 2 - 0	2	2	6 - #5	None	17,434 "k	17.59	12.04	7.50	5.04	3.98	2.59
2 - 2 - 2 - 2	2	2	6 - #5	None	21,295 "k	21.61	14.84	9.29	6.28	4.98	3.28

NITTERHOUSE CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

Prestressed Concrete
Spandrel Panel 10SP78

PHYSICAL PROPERTIES

$A = 780$ in.^{2}	$S_b = 10{,}140$ in.^{3}
$I = 395{,}460$ in.^{4}	$S_t = 10{,}140$ in.^{3}
$Y_b = 39.00$ in.	Wt.= 813 PLF
$Y_t = 39.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

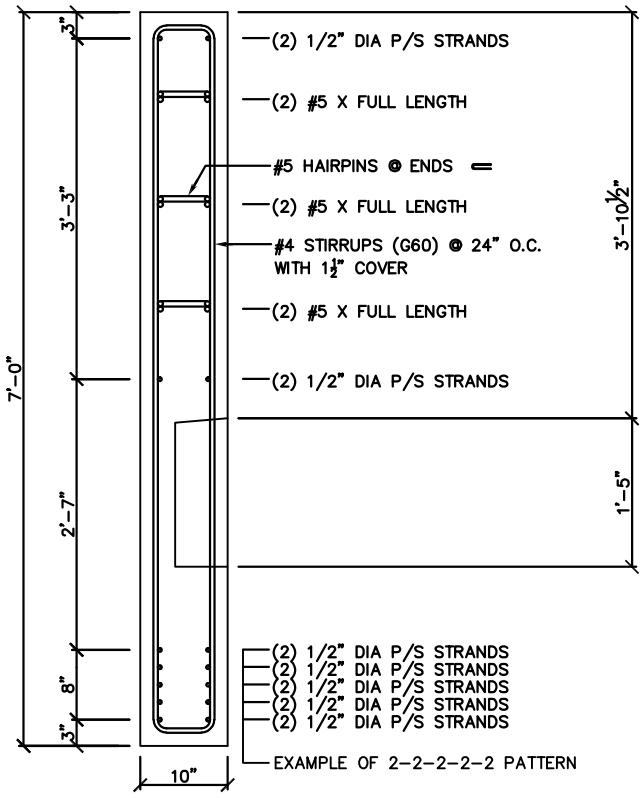
Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0 - 0	2	2	6 - #5	None	14,405 "k	14.39	9.81	6.05	4.02	3.14	1.99
2 - 2 - 2 - 0 - 0	2	2	6 - #5	None	19,057 "k	19.24	13.17	8.21	5.51	4.35	2.83
2 - 2 - 2 - 2 - 0	2	2	6 - #5	None	23,358 "k	23.72	16.28	10.20	6.89	5.47	3.61
2 - 2 - 2 - 2 - 2	2	2	6 - #5	None	27,412 "k	27.94	19.21	12.08	8.20	6.52	4.34

NITTERHOUSE
CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

Prestressed Concrete
Spandrel Panel 10SP84

PHYSICAL PROPERTIES

$A = 840$ in.^{2}	$S_b = 11{,}760$ in.^{3}
$I = 493{,}920$ in.^{4}	$S_t = 11{,}760$ in.^{3}
$Y_b = 42.00$ in.	Wt.= 875 PLF
$Y_t = 42.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

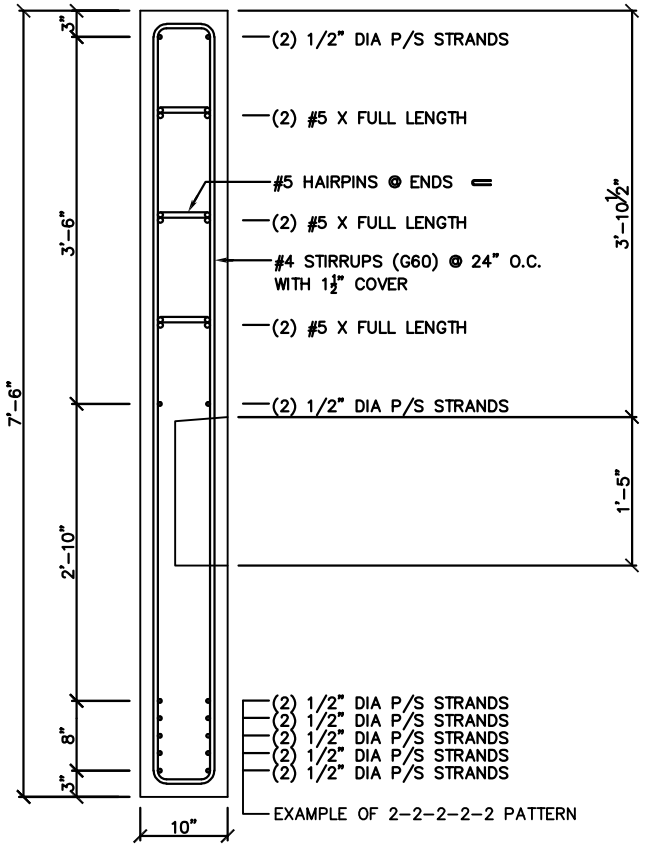
Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0 - 0	2	2	6 - #5	None	15,770 "k	15.77	10.75	6.64	4.41	3.45	2.19
2 - 2 - 2 - 0 - 0	2	2	6 - #5	None	20,838 "k	21.05	14.41	8.99	6.04	4.77	3.11
2 - 2 - 2 - 2 - 0	2	2	6 - #5	None	25,640 "k	26.05	17.89	11.21	7.58	6.02	3.98
2 - 2 - 2 - 2 - 2	2	2	6 - #5	None	30,081 "k	30.67	21.10	13.27	9.01	7.17	4.78

NITTERHOUSE
CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM

Prestressed Concrete
Spandrel Panel 10SP90

PHYSICAL PROPERTIES

$A = 900$ in.^{2}	$S_b = 13{,}500$ in.^{3}
$I = 607{,}500$ in.^{4}	$S_t = 13{,}500$ in.^{3}
$Y_b = 45.00$ in.	Wt.= 938 PLF
$Y_t = 45.00$ in.	



DESIGN DATA

1. Precast Strength @ 28 days = 6,000 PSI
2. Precast Strength @ release = 3,500 PSI.
3. Precast Density = 150 PCF
4. Strand = 1/2"Ø 270K Lo-Relaxation.
5. Ultimate moment capacity shown below is for full strand development & tension controlled section.
6. Maximum bottom tensile stress is $12\sqrt{f'c} = 930$ PSI
7. Flexural strength capacity is based on stress/strain strand relationships and is slightly variable.
8. Deflection limits were not considered when determining allowable loads in this table.
9. All superimposed live loads listed are controlled by ultimate flexural strength, not allowable stresses.
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.

ALLOWABLE SUPERIMPOSED LIVE LOADS (KLF)

Bottom Strands	Middle Strands	Top Strands	Longitudinal Bars	Strand Debonding	Moment Capacity	SPAN					
						20'	24'	30'	36'	40'	48'
2 - 2 - 0 - 0 - 0	2	2	6 - #5	None	17,067 "k	17.07	11.64	7.19	4.78	3.74	2.38
2 - 2 - 2 - 0 - 0	2	2	6 - #5	None	22,549 "k	22.78	15.60	9.73	6.64	5.17	3.37
2 - 2 - 2 - 2 - 0	2	2	6 - #5	None	27,777 "k	28.23	19.38	12.15	8.22	6.53	4.31
2 - 2 - 2 - 2 - 2	2	2	6 - #5	None	32,682 "k	33.34	22.93	14.42	9.80	7.80	5.20

NITTERHOUSE
CONCRETE PRODUCTS
CHAMBERSBURG, PA 717-267-4505
WWW.NITTERHOUSECONCRETE.COM