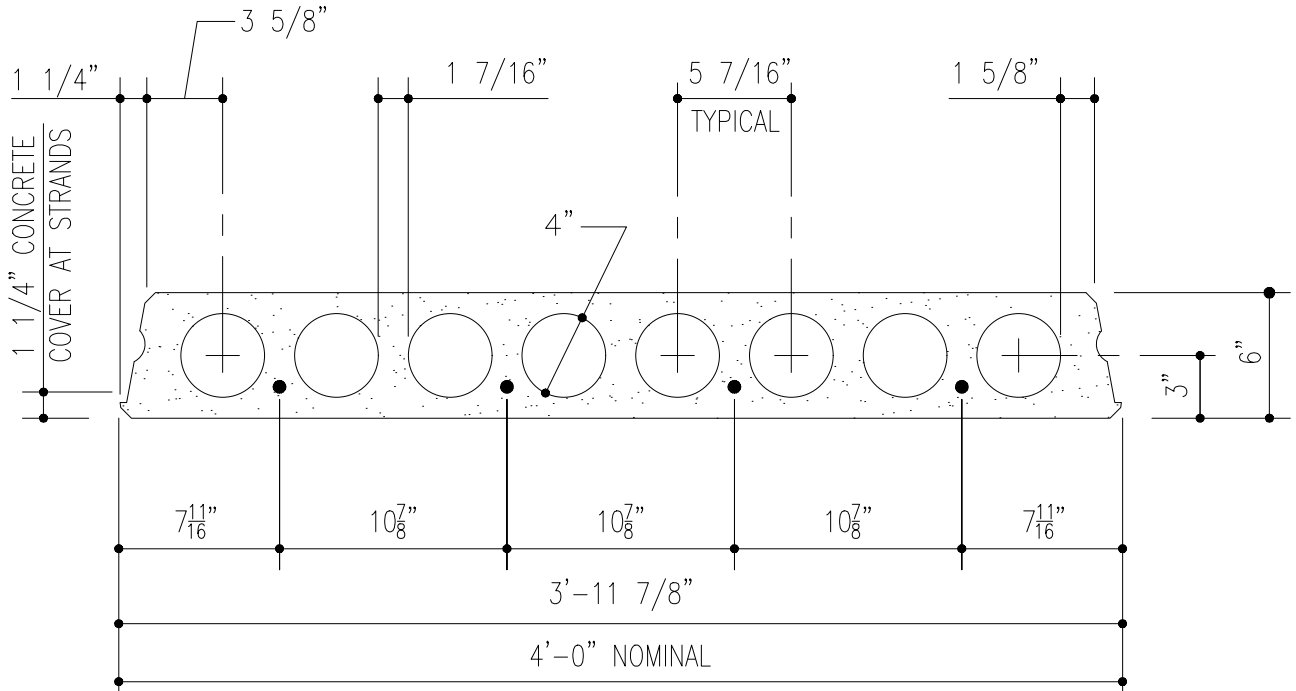




6" CELLA-CORE TECHNICAL DATA SHEET



LOAD TABLE OF ALLOWABLE SUPERIMPOSED LOADS IN LBS. PER SQ.FT.

STANDARD WEIGHT 6" CELLA-CORE PLANK

STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																							
			11	12	13	14	15	16	17	18	19	20	21	22	23	24										
4-1/2" φ	0.612	51	295	266	241	220	202	183	162	144	129	116	104	94	83	73										

Values below lower heavy line indicate web shear controls.

Values are terminated before long term camber is less than +3/8" with no superimposed loads.

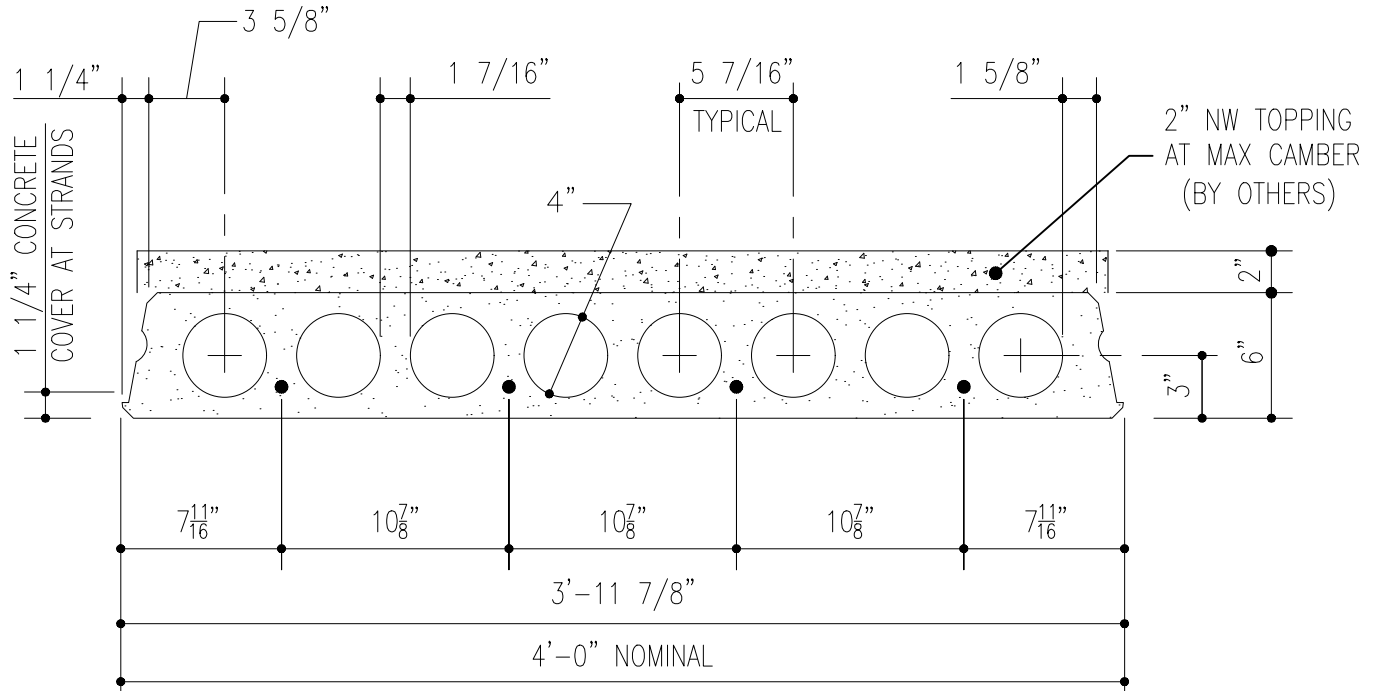
MATERIAL PROPERTIES

Net Area.....	188 in ²	Strength of Concrete (f 'c).....	6000 psi
Moment of Inertia.....	764 in ⁴	Strength at Release (f 'ci).....	3500 psi
Centroid from Slab Bottom.....	3.00 in	Unit weight of Concrete.....	150 pcf
Section Modulus, Top.....	255 in ³	Ultimate Steel Strength.....	270 ksi
Section Modulus, Bottom.....	255 in ³	Strand Jacking Stress.....	175.5 ksi
Web Width.....	10.0 in	Strand Type.....	Low Relaxation
V/S Ratio.....	1.78 in	Grout Joint Requirements.....	2276 ft ² /yd ³
Self Weight *.....	51 psf	* Self weights based on grouted section	

These tables are for general design with uniform loading only. Final design by Boccella engineering will depend on local codes and standards, slab openings, non-uniform loads, and project specific requirements.



6"+T CELLA-CORE TECHNICAL DATA SHEET



LOAD TABLE OF ALLOWABLE SUPERIMPOSED LOADS IN LBS. PER SQ.FT.																			
STANDARD WEIGHT 6" CELLA-CORE PLANK + 2" NW CONCRETE COMPOSITE TOPPING																			
STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																
			11	12	13	14	15	16	17	18	19	20	21	22	23	24			
4-1/2" ϕ	0.612	74	391	351	318	290	266	245	222	195	172	152	135	121	105	87			

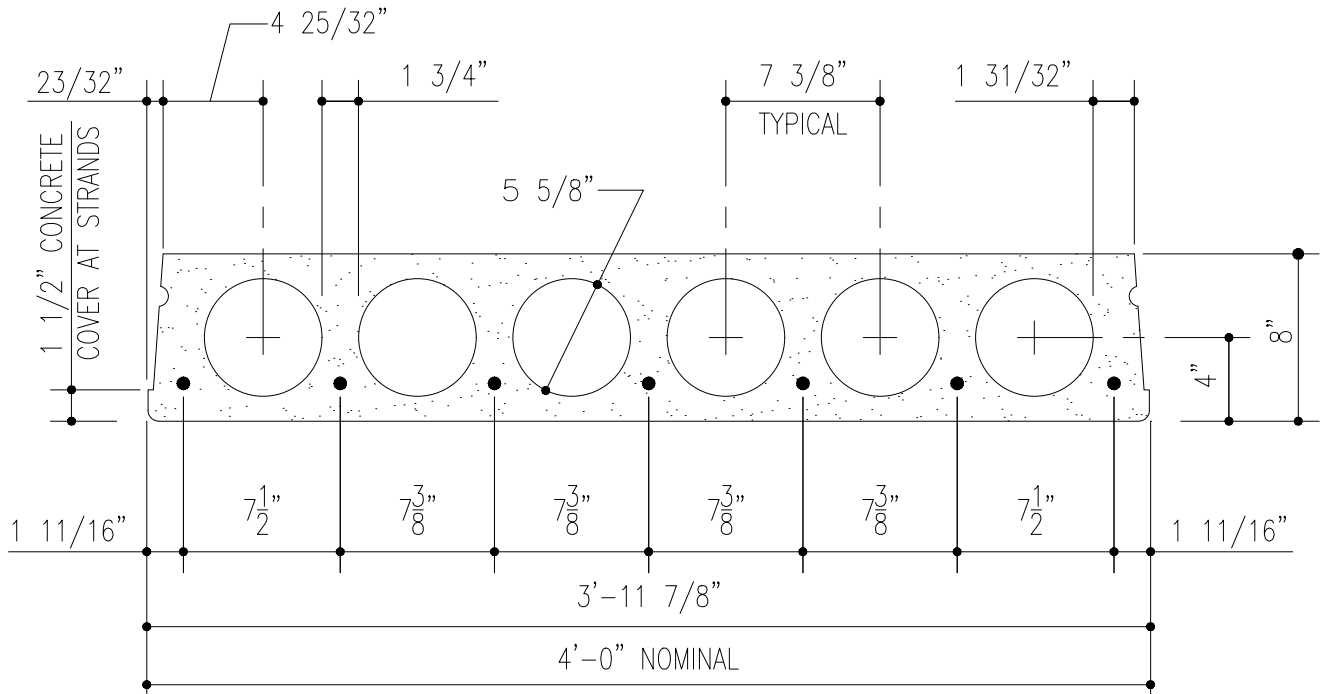
Values below lower heavy line indicate web shear controls.
 Values are terminated before long term camber is less than +0" with no superimposed loads.

MATERIAL PROPERTIES			
Net Area.....	263 in ²	Strength of Concrete (f 'c).....	6000 psi
Moment of Inertia.....	1644 in ⁴	Strength at Release (f 'ci).....	3500 psi
Centroid from Slab Bottom.....	4.13 in	Unit weight of Concrete.....	150 pcf
Section Modulus, Top.....	547 in ³	Ultimate Steel Strength.....	270 ksi
Section Modulus, Bottom.....	397 in ³	Strand Jacking Stress.....	175.5 ksi
Web Width.....	10.0 in	Strand Type.....	Low Relaxation
V/S Ratio.....	1.78 in	Grout Joint Requirements.....	2276 ft ² /yd ³
Self Weight *.....	51+25 = 76 psf	* Self weights based on grouted section	

These tables are for general design with uniform loading only. Final design by Boccella engineering will depend on local codes and standards, slab openings, non-uniform loads, and project specific requirements.



8" CELLA-CORE TECHNICAL DATA SHEET



LOAD TABLE OF ALLOWABLE SUPERIMPOSED LOADS IN LBS. PER SQ.FT.

STANDARD WEIGHT 8" CELLA-CORE PLANK

STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																											
			14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35						
5-1/2" ϕ	0.765	89	416	383	345	308	276	248	225	205	185	165	148	132	119	107	96	86	78	70										
7-1/2" ϕ	1.071	121	441	407	377	351	326	294	266	242	221	202	185	171	158	146	135	125	117	109	100	91	83	75						

Values below lower heavy line indicate web shear controls.

Values are terminated before long term camber is less than +3/8" with no superimposed loads.

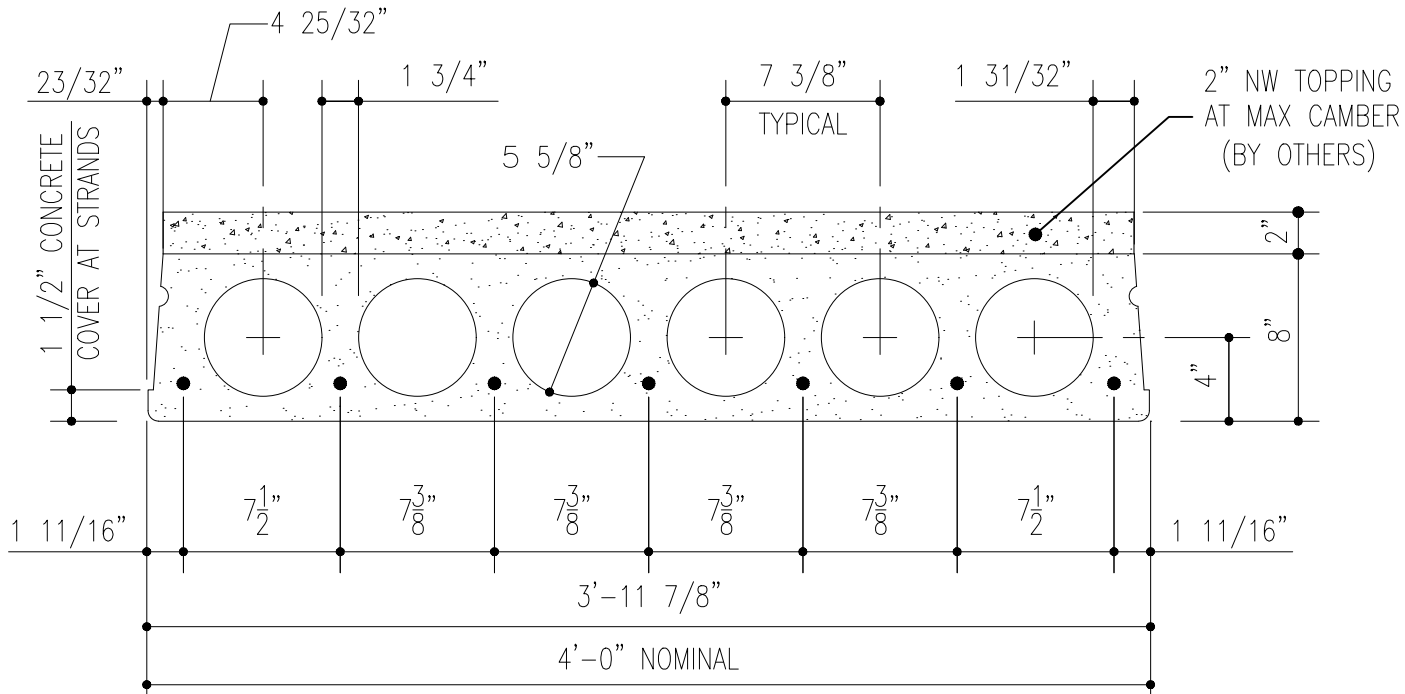
MATERIAL PROPERTIES

Net Area.....	226 in ²	Strength of Concrete (f 'c).....	6000 psi
Moment of Inertia.....	1768 in ⁴	Strength at Release (f 'ci).....	3500 psi
Centroid from Slab Bottom.....	4.00 in	Unit weight of Concrete.....	150 pcf
Section Modulus, Top.....	442 in ³	Ultimate Steel Strength.....	270 ksi
Section Modulus, Bottom.....	442 in ³	Strand Jacking Stress.....	175.5 ksi
Web Width.....	12.94 in	Strand Type.....	Low Relaxation
V/S Ratio.....	2.13 in	Grout Joint Requirements.....	1707 ft ² /yd ³
Self Weight *.....	62 psf	* Self weights based on grouted section	

These tables are for general design with uniform loading only. Final design by Boccella engineering will depend on local codes and standards, slab openings, non-uniform loads, and project specific requirements.



8" + T CELLA-CORE TECHNICAL DATA SHEET



LOAD TABLE OF ALLOWABLE SUPERIMPOSED LOADS IN LBS. PER SQ.FT.

STANDARD WEIGHT 8" CELLA-CORE PLANK + 2" NW CONCRETE COMPOSITE TOPPING

STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																											
			14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35						
5-1/2" ϕ	0.765	117	523	482	445	397	354	317	285	258	234	211	189	169	151	135	119	103	88											
7-1/2" ϕ	1.071	157	539	493	454	420	391	364	341	309	280	255	233	212	195	179	165	152	135	120	106	93	81	71						

Values below lower heavy line indicate web shear controls.

Values are terminated before long term camber is less than +0" with no superimposed loads.

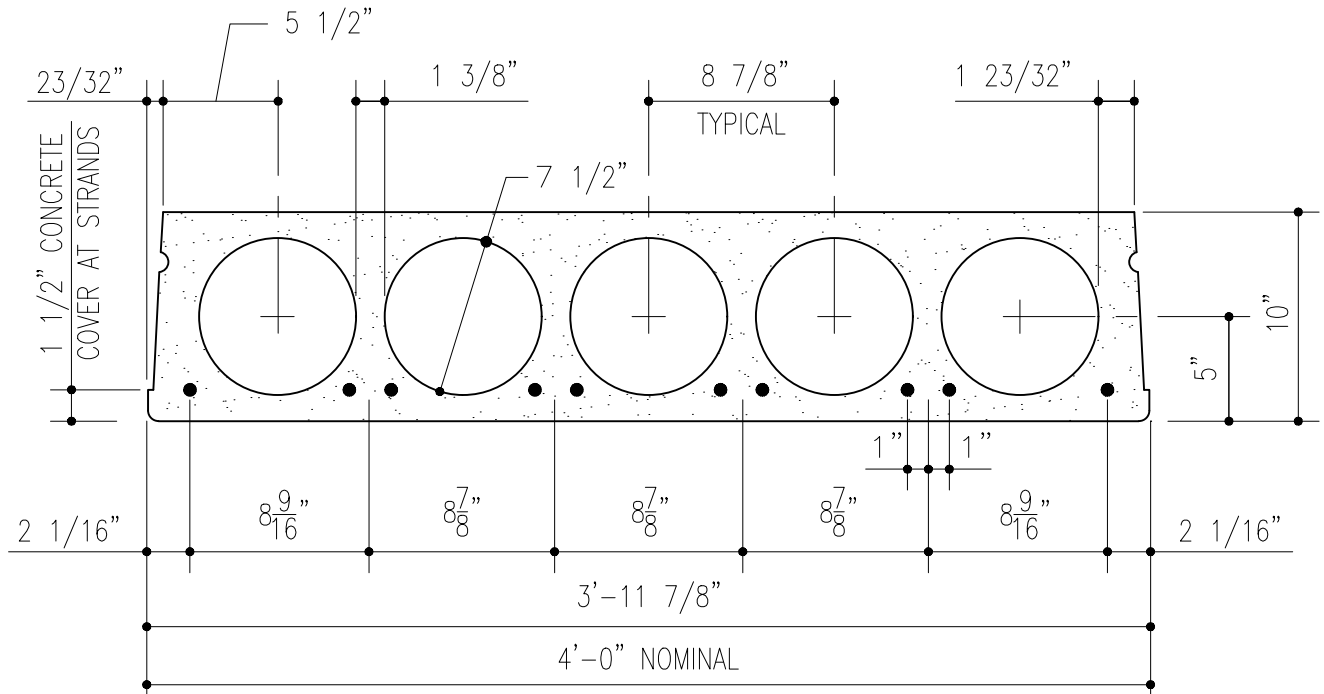
MATERIAL PROPERTIES

Net Area.....	299 in ²	Strength of Concrete (f 'c).....	6000 psi
Moment of Inertia.....	3165 in ⁴	Strength at Release (f 'ci).....	3500 psi
Centroid from Slab Bottom.....	5.21 in	Unit weight of Concrete.....	150 pcf
Section Modulus, Top.....	875 in ³	Ultimate Steel Strength.....	270 ksi
Section Modulus, Bottom.....	607 in ³	Strand Jacking Stress.....	175.5 ksi
Web Width.....	12.94 in	Strand Type.....	Low Relaxation
V/S Ratio.....	2.13 in	Grout Joint Requirements.....	1707 ft ² /yd ³
Self Weight *.....	62+25 = 87 pcf	* Self weights based on grouted section	

These tables are for general design with uniform loading only. Final design by Boccella engineering will depend on local codes and standards, slab openings, non-uniform loads, and project specific requirements.



10" CELLA-CORE TECHNICAL DATA SHEET



LOAD TABLE OF ALLOWABLE SUPERIMPOSED LOADS IN LBS. PER SQ.FT.

STANDARD WEIGHT 10" CELLA-CORE PLANK

STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																					
			20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
6-1/2" ϕ	0.918	143	254	238	225	212	201	190	180	168	155	144	133	123	115	107	99	92	86	79	72			
8-1/2" ϕ	1.224	185	270	254	240	227	214	203	193	184	175	167	158	147	137	127	119	111	104	97	91	85	80	75

Values below lower heavy line indicate web shear controls.

Values are terminated before long term camber is less than +3/8" with no superimposed loads.

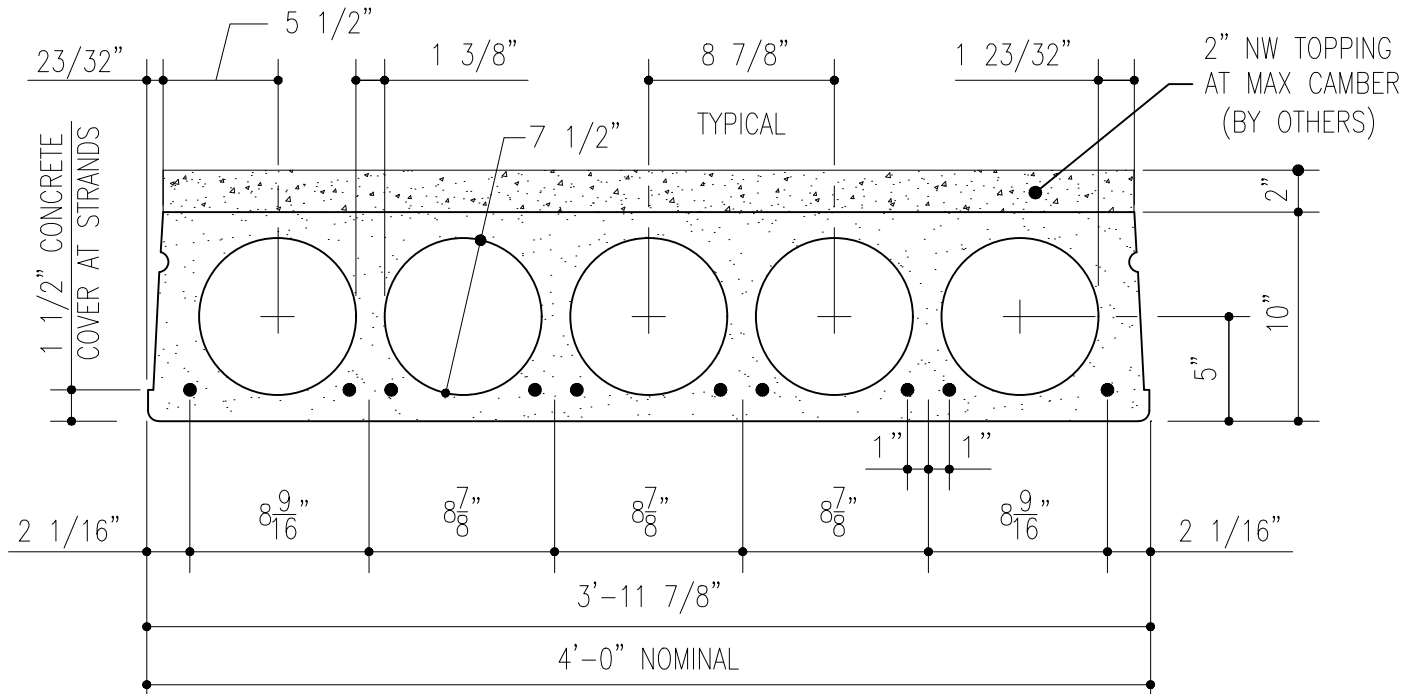
MATERIAL PROPERTIES

Net Area.....	248 in ²	Strength of Concrete (f 'c).....	6000 psi
Moment of Inertia.....	3262 in ⁴	Strength at Release (f 'ci).....	3500 psi
Centroid from Slab Bottom.....	5.00 in	Unit weight of Concrete.....	150 pcf
Section Modulus, Top.....	652 in ³	Ultimate Steel Strength.....	270 ksi
Section Modulus, Bottom.....	652 in ³	Strand Jacking Stress.....	175.5 ksi
Web Width.....	9.25 in	Strand Type.....	Low Relaxation
V/S Ratio.....	2.28 in	Grout Joint Requirements.....	1399 ft ² /yd ³
Self Weight *.....	69 psf	* Self weights based on grouted section	

These tables are for general design with uniform loading only. Final design by Boccella engineering will depend on local codes and standards, slab openings, non-uniform loads, and project specific requirements.



10"+T CELLA-CORE TECHNICAL DATA SHEET



LOAD TABLE OF ALLOWABLE SUPERIMPOSED LOADS IN LBS. PER SQ.FT.

STANDARD WEIGHT 10" CELLA-CORE PLANK + 2" NW CONCRETE COMPOSITE TOPPING

STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																					
			20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
6-1/2" ϕ	0.918	175	301	282	265	250	236	224	212	196	180	165	152	140	129	119	109	101	93	83	73			
8-1/2" ϕ	1.224	226	316	297	280	264	249	236	224	213	202	193	183	170	157	145	134	125	115	107	99	92	85	78

Values below lower heavy line indicate web shear controls.

Values are terminated before long term camber is less than +0" with no superimposed loads.

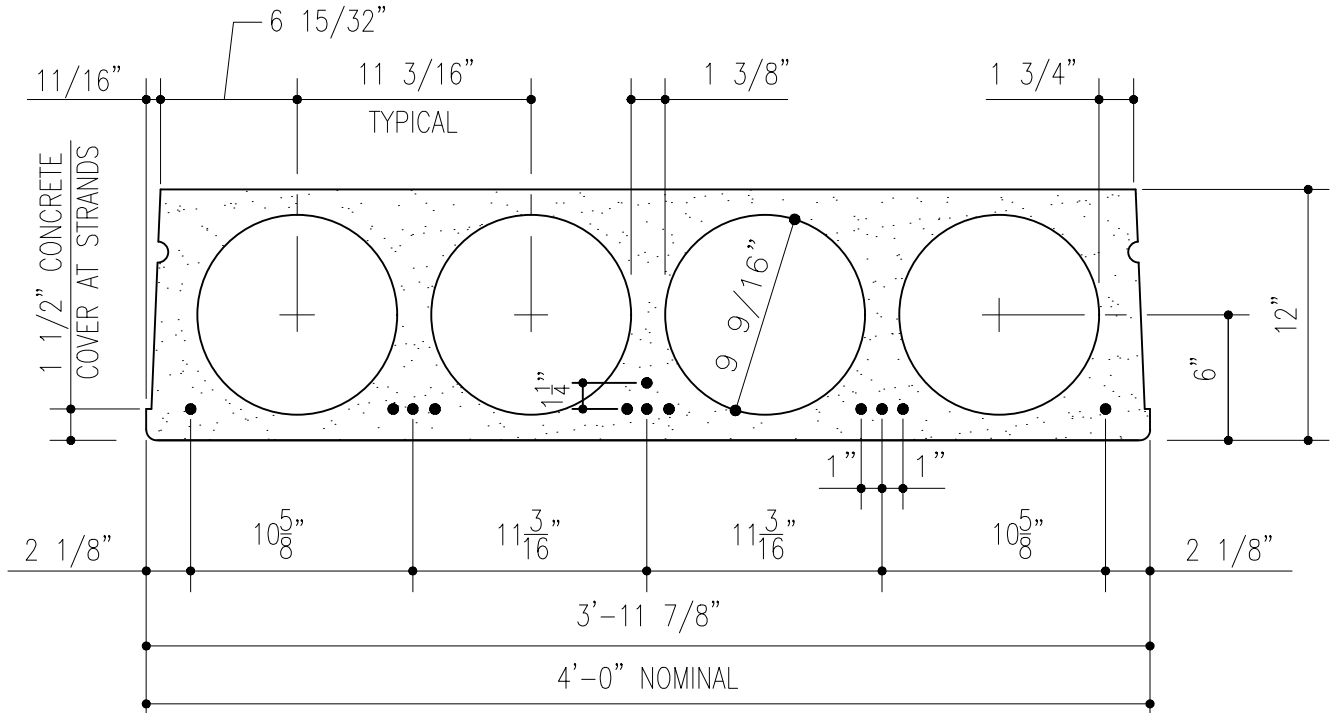
MATERIAL PROPERTIES

Net Area.....	319 in ²	Strength of Concrete (f 'c).....	6000 psi
Moment of Inertia.....	5276 in ⁴	Strength at Release (f 'ci).....	3500 psi
Centroid from Slab Bottom.....	6.34 in	Unit weight of Concrete.....	150 pcf
Section Modulus, Top.....	1257 in ³	Ultimate Steel Strength.....	270 ksi
Section Modulus, Bottom.....	833 in ³	Strand Jacking Stress.....	175.5 ksi
Web Width.....	9.25 in	Strand Type.....	Low Relaxation
V/S Ratio.....	2.28 in	Grout Joint Requirements.....	1399 ft ² /yd ³
Self Weight *.....	69+25 = 94 pcf	* Self weights based on grouted section	

These tables are for general design with uniform loading only. Final design by Boccella engineering will depend on local codes and standards, slab openings, non-uniform loads, and project specific requirements.



12" CELLA-CORE TECHNICAL DATA SHEET



LOAD TABLE OF ALLOWABLE SUPERIMPOSED LOADS IN LBS. PER SQ.FT.

STANDARD WEIGHT 12" CELLA-CORE PLANK

STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																								
			22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
6-1/2" ϕ	0.918	181	261	247	233	221	210	199	190	181	173	161	149	139	130	121	113	106	99	91	84	77	71				
7-1/2" ϕ	1.071	209	270	255	241	229	217	207	197	188	179	171	164	153	143	133	125	117	110	103	96	90	85	79	75	70	
8-1/2" ϕ	1.224	235	279	263	249	236	225	214	204	194	185	177	170	163	155	145	136	127	120	112	105	99	93	87	82	77	73
9-1/2" ϕ	1.377	262	288	272	257	244	232	221	210	201	192	183	176	168	161	155	146	137	129	121	114	107	101	95	90	84	79

Values below lower heavy line indicate web shear controls.

Values are terminated before long term camber is less than +3/8" with no superimposed loads.

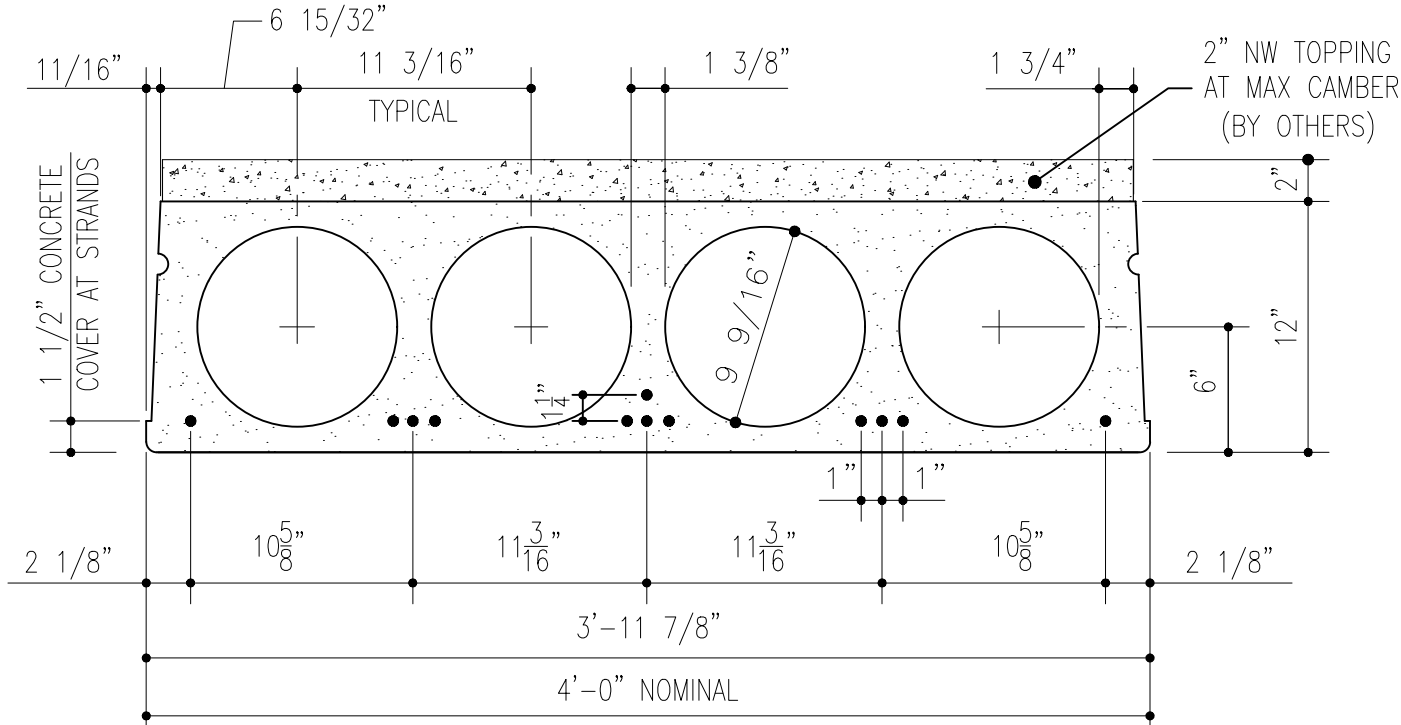
MATERIAL PROPERTIES

Net Area.....	275 in ²	Strength of Concrete (f 'c).....	6000 psi
Moment of Inertia.....	5353 in ⁴	Strength at Release (f 'ci).....	3500 psi
Centroid from Slab Bottom.....	6.00 in	Unit weight of Concrete.....	150 pcf
Section Modulus, Top.....	892 in ³	Ultimate Steel Strength.....	270 ksi
Section Modulus, Bottom.....	892 in ³	Strand Jacking Stress.....	175.5 ksi
Web Width.....	8.50 in	Strand Type.....	Low Relaxation
V/S Ratio.....	2.47 in	Grout Joint Requirements.....	1161 ft ² /yd ³
Self Weight *.....	77 psf	* Self weights based on grouted section	

These tables are for general design with uniform loading only. Final design by Boccella engineering will depend on local codes and standards, slab openings, non-uniform loads, and project specific requirements.



12" +T CELLA-CORE TECHNICAL DATA SHEET



LOAD TABLE OF ALLOWABLE SUPERIMPOSED LOADS IN LBS. PER SQ.FT.

STANDARD WEIGHT 12" CELLA-CORE PLANK + 2" NW CONCRETE COMPOSITE TOPPING

STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																								
			22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
6-1/2" ϕ	0.918	213	296	279	263	249	236	224	213	203	193	179	165	153	142	131	121	112	104	96	89	82					
7-1/2" ϕ	1.071	245	304	287	271	256	243	231	219	209	199	190	181	170	158	146	136	126	117	109	101	94	87	80	75		
8-1/2" ϕ	1.224	275	312	294	278	263	250	237	226	215	205	195	187	178	171	161	149	139	129	121	112	104	97	90	84	78	73
9-1/2" ϕ	1.377	306	320	302	286	270	257	244	232	221	211	201	192	184	176	168	161	151	141	132	123	115	107	100	93	87	81

Values below lower heavy line indicate web shear controls.

Values are terminated before long term camber is less than +0" with no superimposed loads.

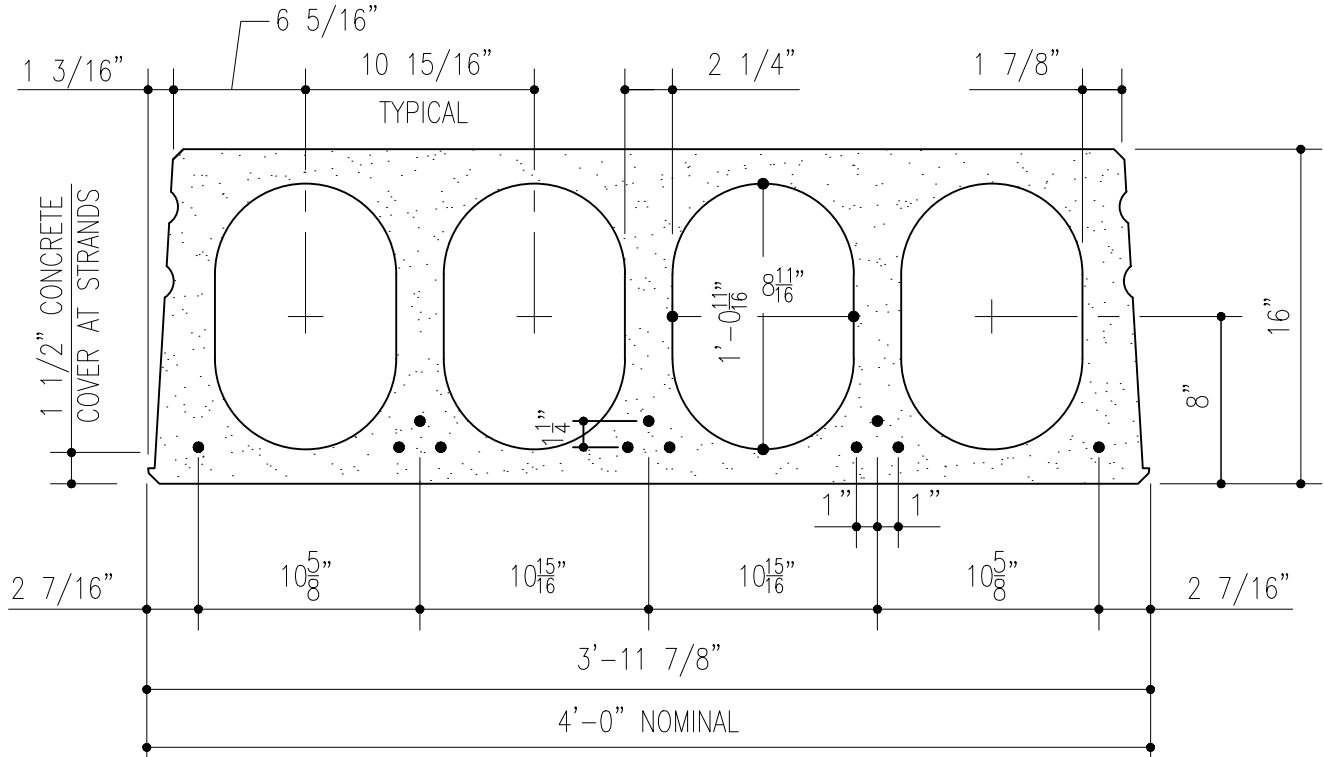
MATERIAL PROPERTIES

Net Area.....	345 in ²	Strength of Concrete (f 'c).....	6000 psi
Moment of Inertia.....	8126 in ⁴	Strength at Release (f 'ci).....	3500 psi
Centroid from Slab Bottom.....	7.43 in	Unit weight of Concrete.....	150 pcf
Section Modulus, Top.....	1684 in ³	Ultimate Steel Strength.....	270 ksi
Section Modulus, Bottom.....	1094 in ³	Strand Jacking Stress.....	175.5 ksi
Web Width.....	8.50 in	Strand Type.....	Low Relaxation
V/S Ratio.....	2.47 in	Grout Joint Requirements.....	1161 ft ² /yd ³
Self Weight *.....	77+25 = 102 psf	* Self weights based on grouted section	

These tables are for general design with uniform loading only. Final design by Boccella engineering will depend on local codes and standards, slab openings, non-uniform loads, and project specific requirements.



16" CELLA-CORE TECHNICAL DATA SHEET



LOAD TABLE OF ALLOWABLE SUPERIMPOSED LOADS IN LBS. PER SQ.FT.

STANDARD WEIGHT 16" CELLA-CORE PLANK

STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																									
			34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	
8-1/2" ϕ	1.224	337	281	263	244	227	211	196	183	170	158	147	137	127	119	110	102	95	88	81	75							
9-1/2" ϕ	1.377	376	298	281	265	250	238	225	213	199	186	174	162	152	142	132	123	115	108	100	93	87	81	74				
10-1/2" ϕ	1.530	413	314	297	280	264	251	237	225	214	203	192	184	174	164	153	144	135	126	118	110	103	95	88	81	74	68	
11-1/2" ϕ	1.683	449	330	311	294	278	263	249	237	224	213	203	193	183	175	167	159	149	140	131	123	115	107	100	94	87	80	

Values below lower heavy line indicate web shear controls.

Values are terminated before long term camber is less than +3/8" with no superimposed loads.

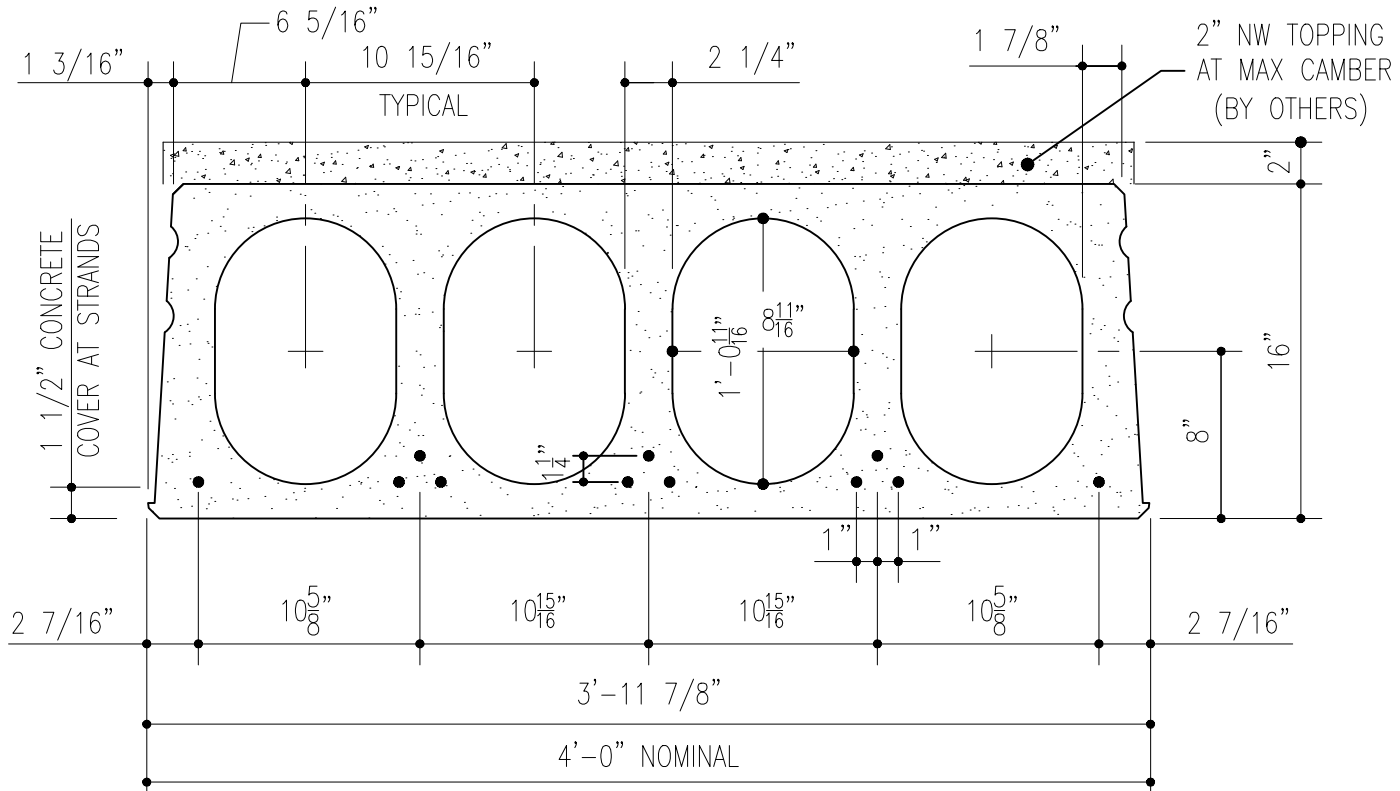
MATERIAL PROPERTIES

Net Area.....	395 in ²	Strength of Concrete (f 'c).....	6000 psi
Moment of Inertia.....	12360 in ⁴	Strength at Release (f 'ci).....	3500 psi
Centroid from Slab Bottom.....	8.30 in	Unit weight of Concrete.....	150 pcf
Section Modulus, Top.....	1605 in ³	Ultimate Steel Strength.....	270 ksi
Section Modulus, Bottom.....	1489 in ³	Strand Jacking Stress.....	175.5 ksi
Web Width.....	13.86 in	Strand Type.....	Low Relaxation
V/S Ratio.....	2.47 in	Grout Joint Requirements.....	871 ft ² /yd ³
Self Weight *.....	107 psf	* Self weights based on grouted section	

These tables are for general design with uniform loading only. Final design by Boccella engineering will depend on local codes and standards, slab openings, non-uniform loads, and project specific requirements.



16" +T CELLA-CORE TECHNICAL DATA SHEET



LOAD TABLE OF ALLOWABLE SUPERIMPOSED LOADS IN LBS. PER SQ.FT.

STANDARD WEIGHT 16" CELLA-CORE PLANK + 2" NW CONCRETE COMPOSITE TOPPING

STRAND	STRAND AREA sq. in.	MU K-ft	CLEAR SPAN IN FEET																									
			34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	
8-1/2" ϕ	1.224	377	308	285	264	245	227	211	195	181	168	156	144	134	124	114	104	93	83	74								
9-1/2" ϕ	1.377	419	333	314	295	278	263	245	228	213	198	184	172	160	149	137	125	114	103	93	84	75	66					
10-1/2" ϕ	1.530	461	353	332	312	294	278	262	249	235	222	212	198	184	170	157	145	134	123	112	102	92	83	74	66			
11-1/2" ϕ	1.683	503	372	350	329	310	293	276	262	248	234	223	211	199	189	175	163	151	139	129	119	110	100	91	82	74	66	

Values below lower heavy line indicate web shear controls.

Values are terminated before long term camber is less than +0" with no superimposed loads.

MATERIAL PROPERTIES

Net Area.....	469 in ²	Strength of Concrete (f 'c).....	6000 psi
Moment of Inertia.....	17097 in ⁴	Strength at Release (f 'ci).....	3500 psi
Centroid from Slab Bottom.....	9.67 in	Unit weight of Concrete.....	150 pcf
Section Modulus, Top.....	2666 in ³	Ultimate Steel Strength.....	270 ksi
Section Modulus, Bottom.....	1768 in ³	Strand Jacking Stress.....	175.5 ksi
Web Width.....	13.86 in	Strand Type.....	Low Relaxation
V/S Ratio.....	2.47 in	Grout Joint Requirements.....	871 ft ² /yd ³
Self Weight *.....	107+25 = 132 psf	* Self weights based on grouted section	

These tables are for general design with uniform loading only. Final design by Boccella engineering will depend on local codes and standards, slab openings, non-uniform loads, and project specific requirements.



8" / 10" / 12" / 16" CELLA-CORE STRAND LOCATIONS

