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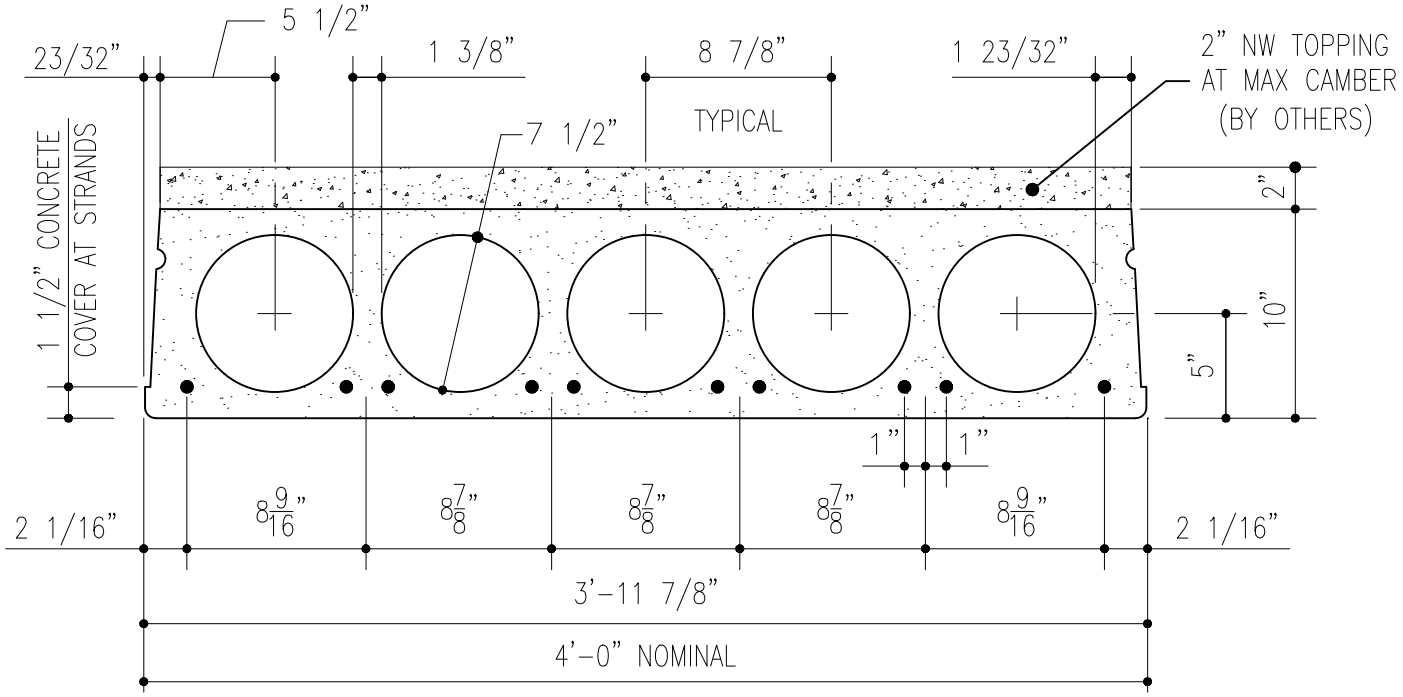
10"+T CELLA-CORE TECHNICAL DATA SHEET



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" ø	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" ø	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 in²*	*Strength of Concrete (f 'c)*	*6000 psi*
Moment of Inertia	*5276 in⁴*	*Strength at Release (f 'ci)*	*3500 psi*
Centroid from Slab Bottom	*6.34 in*	*Unit weight of Concrete*	*150 pcf*
Section Modulus, Top	*1257 in³*	*Ultimate Steel Strength*	*270 ksi*
Section Modulus, Bottom	*833 in³*	*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 ft²/ yd³*
*Self Weight **	*69+25 = 94 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.