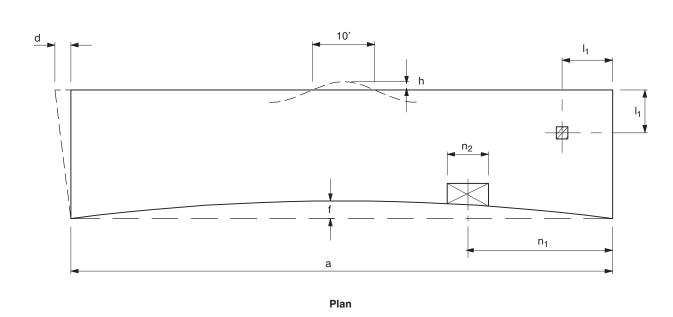
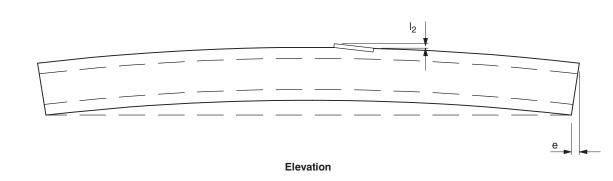


Cross soction





### 10.13 Hollow-core Slabs

 $c_2$  = Bottom flange depth:

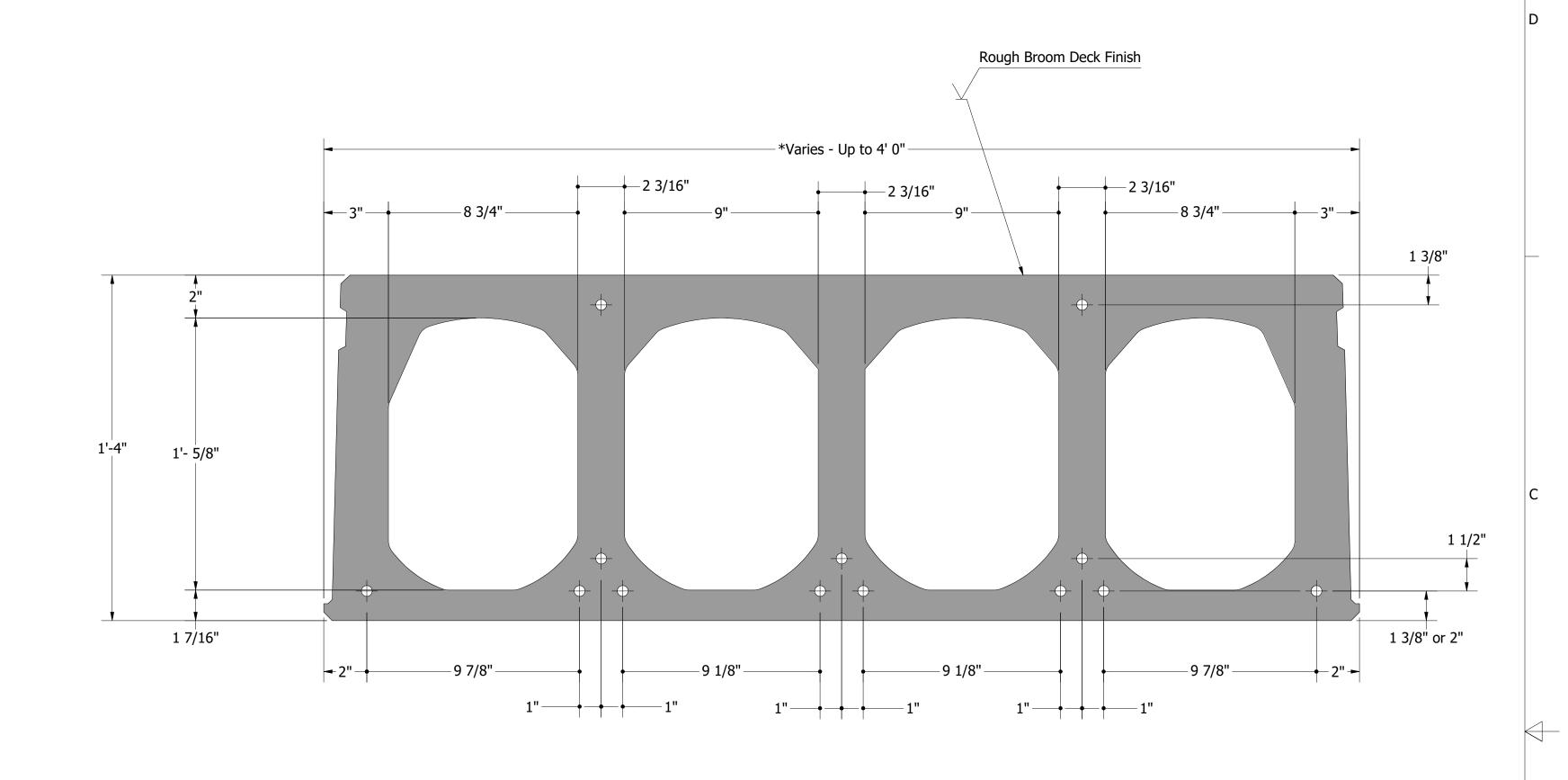
Bottom flange area defined by the actual measured values of average "c<sub>2</sub>" x "b" shall not be less than 85 percent of the nominal area calculated by "c<sub>2</sub>, nominal" x "b nominal"

d = Variation from specified plan end squareness or skew ......  $\pm \frac{1}{2}$  in. [ $\pm 13$  mm] e = Variation from specified elevation end squareness or skew

g = Applications requiring close control of differential camber between adjacent members should be discussed with the producer to determine applicable tolerances.

 $k_2$  = Location of strand parallel to plane of panel ...  $\pm \frac{3}{4}$  in. [ $\pm 19$  mm] Minimum cover ...  $\frac{3}{4}$  in. [19 mm]  $\pm \frac{1}{1}$  = Location of embedment\* ...  $\pm 2$  in. [ $\pm 50$  mm]

\* Some hollow-core production systems do not permit the incorporation of embedments. Contact local producers for suitable alternate details if embedments are not practical.



# E16" x 48" SECTION

## 1.125" Minimum Strand Cover

		No Structu	ral Topping				
IDC Ein	IRC Fire Ratings		Unrestrained 1 hour				
IBC Fire Ratings		Restrained 4 hours					
		Section F	Properties				
$A = 346 \text{ in}^2$		$Y_{t} = 7.67 \text{ in}$		$b_{w} = 11.3 \text{ in}$			
I = 11339 in <sup>4</sup>		$Y_b = 8.33 \text{ in}$		wt = 90 psf			
φM <sub>n</sub> k-ft/ft	54.20	75.13	85.43	103.48	112.35		
Series	1.125E16-85	1.125E16-87	1.125E16-810	1.125E16-810	1.125E16-811		
Span (ft)	Allowable Superimposed Load in lbs/ft <sup>2</sup>						
30	187	198	204	210	213		
35	150	160	165	170	173		
40	102	132	136	140	143		
45	66	110	114	117	120		
50		83	96	99	101		
55			74	85	87		

Strands:  $\frac{1}{2}$ " $\phi$  270 ksi Low-Lax Stress to 65% (26.9 kip) Concrete Strength:  $f'_c$  = 8,000 psi at 28 days Topping Strength:  $f'_c$  = 3,000 psi at 28 days

### E16" x 48" SECTION

## 1.125" Minimum Strand Cover

		2" Bonded Stru	ıctural Topping				
IBC Fire Ratings		Unrestrained 1 hour					
		Restrained 4 hours					
		Section P	Properties				
$A = 402 \text{ in}^2$		$Y_{t} = 8.47 \text{ in}$		$b_{w} = 11.3 \text{ in}$			
$I = 14971 \text{ in}^4$		$Y_b = 9.53 \text{ in}$		wt = 115 psf			
φM <sub>n</sub> k-ft/ft	59.90	82.10	92.93	111.95	121.28		
Series	1.125E16-85T	1.125E16-87T	1.125E16-810T	1.125E16-810T	1.125E16-8117		
Span (ft)	Allowable Superimposed Load in lbs/ft <sup>2</sup>						
30	200	211	217	223	226		
35	158	169	173	178	181		
40	101	137	141	145	148		
45	62	113	117	120	122		
50		78	97	100	102		
55			67	84	86		

Strands:  $\frac{1}{2}$ " $\phi$  270 ksi Low-Lax Stress to 65% (26.9 kip) Concrete Strength:  $f'_c$  = 8,000 psi at 28 days Topping Strength:  $f'_c$  = 3,000 psi at 28 days



16" HC - 4' Standard Width - Spans up to 66'

56-E16

DATE: 1/1/2021

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