U Beams, Recommended Spacings for LRFD

U40 Beam Spacings vs. Span Lengths		
Span Length	**Overhang**	**Max. Spacing**
75'	6'-9"	16'-7"
80'	6'-9"	16'-7"
	5'-0"	16'-7"
85'	6'-9"	14'-0"
	5'-0"	16'-0"
90'	6'-9"	11'-6"
	5'-0"	13'-6"
95'	5'-0"	11'-0"
100'	5'-0"	9'-3"
105'	5'-0"	7'-6"[1]

Approximate Structure depth = 40" beam + 8" slab + 2" haunch = 50"

U54 Beam Spacings vs. Span Lengths		
Span Length	**Overhang**	**Max. Spacing**
75'	6'-9"	16'-7"
80'	6'-9"	16'-7"
85'	6'-9"	16'-7"
90'	6'-9"	16'-7"
95'	6'-9"	16'-7"
100'	6'-9"	16'-7"
	5'-0"	16'-7"
105'	6'-9"	14'-3"
	5'-0"	16'-3"
110'	6'-9"	12'-0"
	5'-0"	14'-0"
115'	6'-9"	10'-0"
	5'-0"	11'-9"
120'	5'-0"	10'-3"

Approximate Structure depth = 54" beam + 8" slab + 2" haunch = 64"

[1]0.600" 270 ksi low-relaxation strand

- Interior and exterior beam design
- 0.110 klf composite dead load (1/3rd of T501 rail ~ 0.330klf)
- 65% relative humidity
- 1/2" 270 ksi low-relaxation strand, unless noted otherwise
- $f'_{ci\ max}$ = 6500 psi, $f'_{c\ max}$ = 8500 psi, unless noted otherwise
- 2" overlay
- Span lengths shown are CL to CL Bent with 9 ½" distance to CL Bearing