Check Base Plate Bolts in Bending and Shear

Φ _{nom} =	0.5	in = nominal bolt diameter		
K _{bolt} =	0.417	in = min root bolt diameter	Lbolt	
F _y =	36	ksi = bolt yield strength		
N =	4	= number of bolts	+ +	
h _{bolt} =	2	in = height between TOConc and BOSteel	 	
L _{bolt} =	5	in = distance between bolts, parallel to V	+ + V	
V =	200	Ib = shear applied to bolts		
h _v =	42	in = height above TOC where V is applied		
$h_{bolt} \le 2\Phi_{nom}$?	FALSE	therefore, clear span is long enough to develo	p significant moment	
M _{bolt} =	50	lb * in = $V * h_{bolt} / 2 / N$ =moment on a bolt (a	ssumed double curvitu	
V _{bolt} =	50	Ib = V / N = shear on a bolt		
T _{bolt} =	800	Ib = V * $(h_v - h_{bolt})$ *2 / L_{bolt} / N = tension on a l	oolt	
z _{bolt} =	0.0121	$in^3 = K_{bolt}^3 / 6 = plastic section modulu$		
Ω =	1.67	= failure mode safety factor	T 0 7	
M _{AL} =	261	Ib*in = F_y * z_{bolt} / Ω = allowable tension	† v	
VAL =	2,646	Ib = allowable shear		
TAL =	3,195	Ib = allowable tension	h _V h	
M DCR =	0.192	= M _{bolt} / M _{AL} = moment DCR	hbolt	
DCs				
V _{DCR} =	0.019	= V _{bolt} / V _{AL} = shear DCR	- 	
	0.019	= V _{bolt} / V _{AL} = shear DCR = T _{bolt} / T _{AL} = tension DCR	(A L)	



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Paul F. Rice, Edward S. Hoffman

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