

TWIN 45' ARMS	
Structure ID	50914-B444-Y1
X - Top Slab Reinforcing:	
Load Factor	1.3
Mu (k-in)	238
phi	0.9
Mn (k-in)	264.3333333
Bar Diameter (in)	0.625
Cover	2
d (in)	15.06
Rn (ksi)	0.0121
m	20.17
p - reinforcing ratio required	0.0002
p - s+t	0.0018
p min (1.33 x p)	0.0003
p bal	0.0249
p max	0.0187
p required	0.0018
As - (in ²) - Top Bars	3.11
Number of Bars - Top	10.1

X - Bottom Slab Reinforcing:	
Mu (k-in)	1177
phi	0.9
Mn (k-in)	1308
Bar Diameter (in)	0.625
Cover	3
d (in)	14.06
Rn (ksi)	0.0689
m	20.17
p - reinforcing ratio required	0.0012
p - s+t	0.0018
p min (1.33 x p)	0.0015
p bal	0.0249
p max	0.0187
p required	0.0018
As - (in ²) - Top Bars	3.11
Number of Bars - Top	10.1

Concrete Pedestal Design:	
Load Factor	1.3
Strength Reduction Factor	0.7
Mu (k-in)	1116
Concrete Strength (psi)	3500
Reinforcing Steel Yield (psi)	60000
Concrete Cover (in)	2
Shear Reinf. Dia. (in)	0.5
Tension Reinf. Dia. (in)	0.75
No. of Bars	12
e (in)	331.17
As (in ²)	5.30
Ag (in ²)	1017.88
m	20.17
D (in)	36.00
Ds (in)	30.25
p - reinforcement ratio	0.0052
phi*Pn (lbs)	6403
Pu (lbs)	4380

