MaxiForce™ 3" x 6" Rectangular Fixed Steel Bollard Installation Schedule Per Florida Building Code (FBC) Section 1618.5.3

Engineered Anchorage System for Maxi Force™ 3" x 6" Rectangular Fixed Steel Bollards per Florida Building Code (FBC) Section 1618.5.3											
Bollard Array	Bollard Ultimate Load / Max. Capacity	Design Load (lbs.)	Concrete Pier Diameter (in.)	Concrete Pier Height (in.)	Concrete Pier Reinforcing		Concrete Grade Beam Depth (In.)	Concrete Grade Beam Width (In.)	Concrete Grade Longitudinal	Beam Reinforcing Stirrups	
			Indi	vidual Footing Op	ption			Continuous Footing Option			
3 (5.0)	11,110	2,500	12	46	4 - #4 vert.	18" Embedment	28	12	4 - #4 cont.	#3 at 14" o.c.	
3 (5.0)	11,110	2,500	16	42	4 - #4 vert.	18" Embedment	26	16	4 - #4 cont.	#3 at 11" o.c.	
3 (5.0)	11,110	2,500	18	40	4 - #4 vert.	18" Embedment	24	18	4 - #4 cont.	#3 at 10" o.c.	
2 (1.0)	11,110	3,750	12	52	4 - #4 vert.	18" Embedment	28	12	4 - #4 cont.	#3 at 14" o.c.	
2 (1.0)	11,110	3,750	16	48	4 - #4 vert.	18" Embedment	26	16	4 - #4 cont.	#3 at 11" o.c.	
2 (1.0)	11,110	3,750	18	46	4 - #4 vert.	18" Embedment	26	18	4 - #4 cont.	#3 at 10" o.c.	
1 (6.0)	11,110	7,500	12	66	4 - #4 vert.	18" Embedment	30	12	4 - #4 cont.	#3 at 14" o.c.	
1 (6.0)	11,110	7,500	16	60	4 - #4 vert.	18" Embedment	28	16	4 - #4 cont.	#3 at 11" o.c.	
1 (6.0)	11,110	7,500	18	57	4 - #4 vert.	18" Embedment	26	18	4 - #4 cont.	#3 at 10" o.c.	

Design and Construction Notes:

- 1.0 Two (2) bollard array required to meet FBC section 1618.5.3. Minimum of 2 bollards shall engage the vehicle in a vehicle barrier design. Maximum bollard spacing at 3'-0" o.c.
- 2.0 Allowable Foundation Pressure = 2,000 psf. Allowable Lateral Bearing = 150/psf. Assumed in-place soil: Sand, Silty Sand, Clayey Sand, Silty Gravel, or Clayey Gravel. For higher soil allowable design values, site soil investigation by a Registered Geotechnical Engineer is required.
- 3.0 See supplemental concrete pier / beam details for additional information.
- 4.0 Material Specifications: Concrete = 3,000 psi (28-day min.); Reinforcing ASTM A615 (60 ksi for all bars #5 and larger/ 40 ksi for all bars #4 and smaller).
- 5.0 Three (3) bollard array required to meet FBC section 1618.5.3. Minimum of 3 bollards shall engage the vehicle in a vehicle barrier design. Maximum bollard spacing at 2'-0" o.c.
- 6.0 For continuous footing option, maximum single bollard spacing at 4'-0' o.c.

Drawing Rev. Created 11/1/2010

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Maxi*Force*™ Traffic Control Bollards

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MFS Inst Sched (FBC 1618)

C File Name MFS Inst Sched (FBC)
Scale NA DO NOT SCALE DRAWING Sheet 1 Of 1

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