Maxi Force™ 3" x 6" Rectangular Fixed Steel Bollard Installation Schedule Per American Association of State Highway and Transportation Officials (AASHTO) 2.7

Engineered Anchorage System for Maxi Force™ 3" x 6" Rectangular Fixed Steel Bollards per American Assoctiation of State Highway and Transportation Officials (AASHTO) 2.7										
Bollard	Bollard Ultimate	Design		Concrete Pier			Concrete Grade	Concrete Grade	Concrete Grade Beam Reinforcing	
Array	Load / Max. Capacity	Load (lbs.)	Diameter (in.)	Height (in.)	Reinforcing	at Concrete Pier	Beam Depth (In.)	Beam Width (In.)	Longitudinal	Stirrups
			Individual Footing Option				Continuous Footing Option			
3 (5.0)	7,408	3,333	12	42	4 - #4 vert.	18" Embedment	26	12	4 - #4 cont.	#3 at 12" o.c.
3 (5.0)	7,408	3,333	16	39	4 - #4 vert.	18" Embedment	24	16	4 - #4 cont.	#3 at 10" o.c.
3 (5.0)	7,408	3,333	18	38	4 - #4 vert.	18" Embedment	22	18	4 - #4 cont.	#3 at 10" o.c.
2 (1.0)	7,408	5,000	12	48	4 - #4 vert.	18" Embedment	28	12	4 - #4 cont.	#3 at 12" o.c.
2 (1.0)	7,408	5,000	16	45	4 - #4 vert.	18" Embedment	24	16	4 - #4 cont.	#3 at 10" o.c.
2 (1.0)	7,408	5,000	18	42	4 - #4 vert.	18" Embedment	24	18	4 - #4 cont.	#3 at 10" o.c.
1 (5.0)		10.000	1.0		4 "4	1011 5 1 1		10	4 "4	"O . 10"
1 (6.0)		10,000	12	62	4 - #4 vert.	18" Embedment	28	12	4 - #4 cont.	#3 at 12" o.c.
1 (6.0)		10,000	16	56	4 - #4 vert.	18" Embedment	26	16	4 - #4 cont.	#3 at 10" o.c.
1 (6.0)		10,000	18	54	4 - #4 vert.	18" Embedment	24	18	4 - #4 cont.	#3 at 10" o.c.

Design and Construction Notes:

- 1.0 Two (2) bollard array required to meet AASHTO section 2.7. 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 AASHTO section 2.7. 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.

1 Created
11/1/2010

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MFS Inst Sched (AASHTO 2.7)

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