Maxi*Force*™ Steel Bollard Base Installation Schedule

For Universal, Simple, Removable, and EZ Bases

| Engineered Anchorage System for Maxi <i>Force</i> ™ Steel Bollard Bases - Single Footing (For Universal, Simple, Removable and EZ Bases) | | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------|------------------------------|--------------------------------------------|--|--|--|--|--|
| Base Type | Concrete Pier Diameter (In.) | Concrete Pier Height (In.) | Concrete Pier Reinforcing | Bollard Base/Embedment at Concrete Pier | | | | | |
| Universal | 12" | 39" | 2 - #4 Vert. | 8" Min | | | | | |
| Simple | 12" | 39" | 2 - #4 Vert. | 8" Min | | | | | |
| Removable | 12" | 39" | 2 - #4 Vert. | 8" Min | | | | | |
| EZ | 12" | 39" | 2 - #4 Vert. | 6" Min | | | | | |

| Engineered Anchorage System for Maxi Force™ Steel Bollard Bases - Continuous Beam Footing (For Universal, Simple, Removable and EZ Bases) | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|------------------------------------|--------------------------------------------------|--|--|--|--|
| Base Type | Concrete Grade Beam Width (In.) | Concrete Grade Beam Height (In.) | Concrete Grade Beam Reinforcing | Bollard Base/Embedment at Concrete Grade Beam | | | | |
| Universal | 12" | 22" | 3 - #4 Cont. | 8" Min | | | | |
| Simple | 12" | 22" | 3 - #4 Cont. | 8" Min | | | | |
| Removable | 12" | 22" | 3 - #4 Cont. | 8" Min | | | | |
| EZ | 12" | 22" | 3 - #4 Cont. | 6" Min | | | | |

Design and Construction Notes

- 1.0 For continuous concrete grade beam footing, pipe bollards shall be spaced 4' 0" O.C. maximum.
- 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 footing 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).

| Drawing Rev. 1 | Created 11/1/2010 | Maxi Force™ Traffic Control Bolla | | | | | ollards |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------|---------|
| PROPRIETARY AND CONFIDENTIAL THIS DRAWING CONTAINS PROPRIETARY INFORMATION OF BLUE EMBER TECHNOLOGIES. | | | | 7560 Main Street Sykesville, MD 21784 410-552-9888 (phone) - 410-552-9939 (fax) www.maxiforcebollards.com - sales@maxiforcebollards.co | | | |
| INFORMATION CONT | IS DRAWING OR THE AINED HEREIN FOR OTHER FOR WHICH THIS DRAWING IS | Model | U/S/ | R/EZ B | ase Installation | Sche | dule |
| FURNISHED IS FORB | IDDEN. | Size | File Name U_S_R_EZ Base Inst Sched | | | | |
| | | C | Scale | NA | DO NOT SCALE DRAWING | Sheet 1 | Of 1 |

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