

ISSUE: Certificate of Appropriateness

APPLICANT: City of Alexandria

LOCATION: Old and Historic Alexandria District
100 block of King Street, between 100 (Parcel ID: 075.01-06-10) and 101
King Street, and 121 and 134 King Street (Parcel ID: 075.01-06-01)

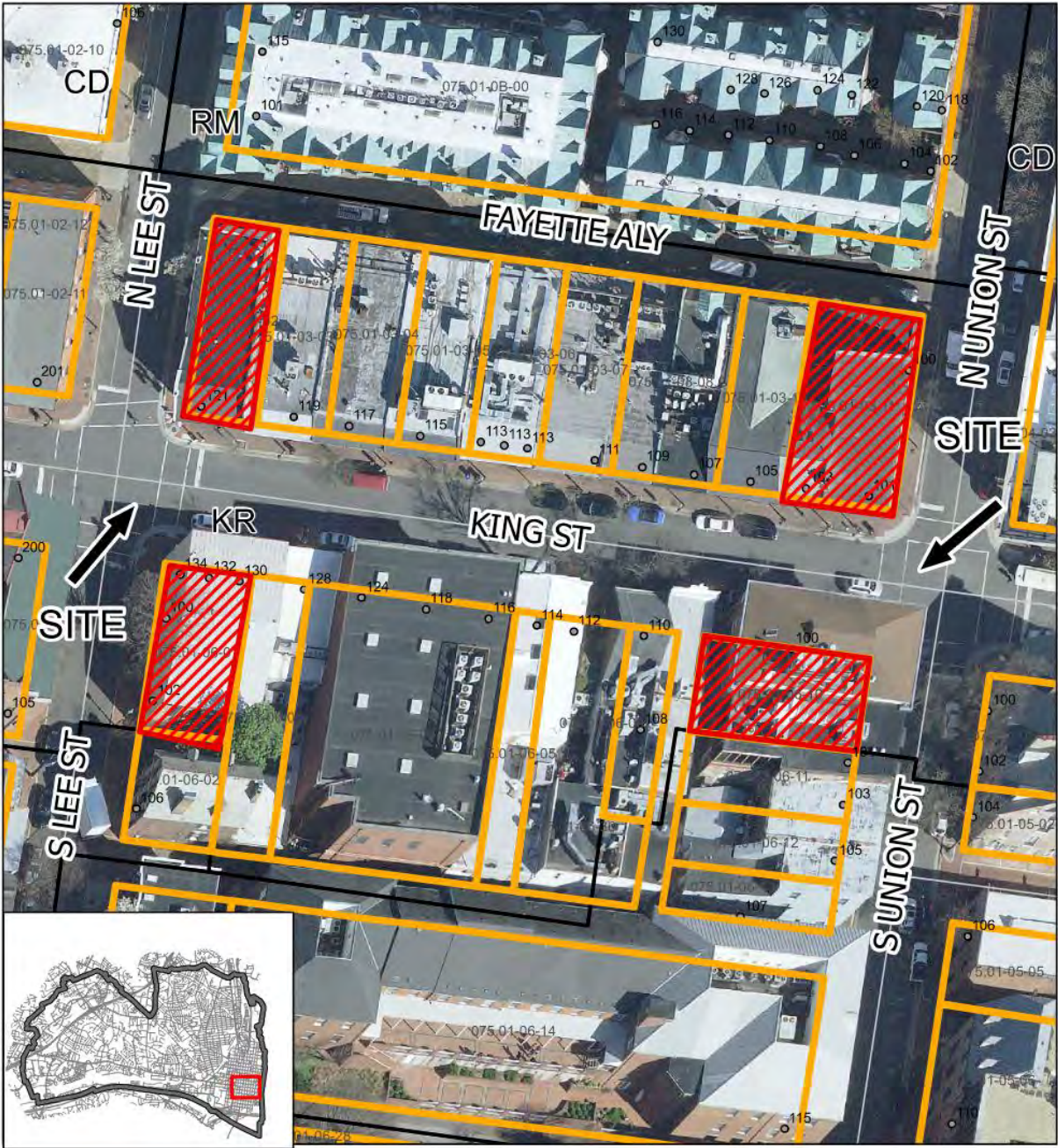
ZONE: KR/King Street Urban Retail Zone


STAFF RECOMMENDATION

Staff recommends approval of the Certificate of Appropriateness as submitted.


GENERAL NOTES TO THE APPLICANT

1. **APPEAL OF DECISION:** In accordance with the Zoning Ordinance, if the Board of Architectural Review denies or approves an application in whole or in part, the applicant or opponent may appeal the Board's decision to City Council on or before 14 days after the decision of the Board.
2. **COMPLIANCE WITH BAR POLICIES:** All materials must comply with the BAR's adopted policies unless otherwise specifically approved.
3. **BUILDING PERMITS:** Most projects approved by the Board of Architectural Review require the issuance of one or more construction permits by Department of Code Administration (including signs). The applicant is responsible for obtaining all necessary construction permits after receiving Board of Architectural Review approval. Contact Code Administration, Room 4200, City Hall, 703-746-4200 for further information.
4. **ISSUANCE OF CERTIFICATES OF APPROPRIATENESS AND PERMITS TO DEMOLISH:** Applicants must obtain a copy of the Certificate of Appropriateness or Permit to Demolish PRIOR to applying for a building permit. Contact BAR Staff, Room 2100, City Hall, 703-746-3833, or preservation@alexandriava.gov for further information.
5. **EXPIRATION OF APPROVALS NOTE:** In accordance with Sections 10-106(B), 10-206(B) and 10-307 of the Zoning Ordinance, any Board of Architectural Review approval will expire 12 months from the date of issuance if the work is not commenced and diligently and substantially pursued by the end of that 12-month period.
6. **HISTORIC PROPERTY TAX CREDITS:** Applicants performing extensive, certified rehabilitations of historic properties may separately be eligible for state and/or federal tax credits. Consult with the Virginia Department of Historic Resources (VDHR) prior to initiating any work to determine whether the proposed project may qualify for such credits.

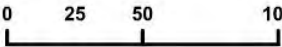




BAR #2021-00656
Request for alterations between 100 (Parcel ID: 075.01-06-10) N
and 101 King Street, and 121 and 134 King Street
(Parcel ID: 075.01-06-01)



0 25 50 100 Feet



I. APPLICANT'S PROPOSAL

The applicant requests a Certificate of Appropriateness to extend approved Waterfront Common Elements Plan standard furnishings, which include road-closure bollards, one block to the west to incorporate the 100 block of King Street. The road-closure bollards would be used to close both ends of the 100 block of King Street.

Site context

This is a public street in one of the most heavily visited areas in Alexandria.

II. HISTORY

When Alexandria was initially mapped in 1749, Cameron Street served as the main east/west street. The 100 block of King Street did not exist at that time, as a bay in the Potomac River from Oronoco to Duke streets extended as far west as Water, now Lee, Street. The 100 block of King Street was therefore under water at that time. Research by Dr. Pamela Cressey, former City Archaeologist, indicates that this bay was filled in and streets extended eastward by **1798**. King ultimately supplanted Cameron as the primary east/west street.

Previous BAR Approvals

- January 18, 2006: No case number. Approval of King Street Outdoor Dining Design Guidelines.
- September 7, 2016, BAR2016-00178: Approval of Waterfront Common Elements Design Guidelines.

III. ANALYSIS

Extending the Waterfront Common Elements standard furnishings to encompass this block of King Street will ensure that any streetscape alterations will be appropriate to this important area of the City and will comply with BAR guidelines and policies. The minutes from the 2016 hearing when the Board unanimously approved a Certificate of Appropriateness for the Waterfront Common Elements indicate that: “The Board enthusiastically supported the Common Elements palette finding the materials and treatments to be appropriate along the Alexandria waterfront that draw from a palate of historic Alexandria details.” And “The Board was very supportive of the Common Elements palette noting that care and attention had been applied to creating this thoughtful collection. They supported the use of high-quality and durable materials.”

The *Design Guidelines* caution that “Street furniture is one of the principal elements that creates the overall visual impression of a streetscape. It should not detract from or visually interfere with the architectural character of the street.” As installed, the bollards and standard furnishings along the waterfront look tasteful and blend into the historic fabric of the City. They do not detract from or visually interfere with architectural character. See Figures 1 and 2 for images of bollards installed near the Torpedo Factory, and Figure 3 for the current road closure to be replaced by the bollards. See Figure 4 for the standard furnishings included in the Waterfront Common Elements.



Figure 1: Bollards at SE corner of Torpedo Factory



Figure 2: Bollards at NE corner of Torpedo Factory

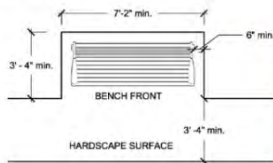


Figure 3: Road closure elements to be replaced by bollards

CITY OF ALEXANDRIA STANDARD FURNISHINGS

BENCH

Victor Stanley Classic Series Model CR-96, 6 ft. standard, free standing bench with back and edge arms. Black, powder coat finish.



BICYCLE RACK

Victor Stanley Model BRWS-101 (inverted U-shape rack). Black, powder coat finish.



RECYCLING RECEPTACLE

Victor Stanley Ironsites Model SD-42 (36 gallon), with side access hinged door; blue, powder coat finish (Color: RAL5010)

Optional recycling lid shall be included. Top band shall be marked with "Recycling" in white lettering, as shown (right).



TRASH RECEPTACLE

Victor Stanley Ironsites Model SD-42 (36 gallon), with side access hinged door; black, powder coat finish. Optional lid shall be included.

DRINKING FOUNTAIN

Most Dependable Drinking Fountains - 400 Series, ADA Model. 410SM or SMSS with optional pet fountain (ADA accessible height), preferred. Model 440SM may also be used. Pet drinking fountain/lower bowl options, where appropriate. Jug filler and hose bib attachment options shall be included. Bubbler, bowls, and buttons shall be satin finish stainless steel. Fountain shall be dark green, stainless steel, or black powder coat finish.



BOLLARD

Spring City Princeton Bollard Model BDPBC-12-3 58. Height: 43" / Bolt Diam.: 1 1/4" / Dimension: 13"sq. Classic black. To be used throughout City of Alexandria.

Alternate: Fairweather Model B-1 Steel bollard. Black, powder coat finish. 6" diameter most prevalent in city (three sizes available). Use only where RPCA selects for parks/trails/rec facilities. Permanent, embedded sleeve/casing with lockable bolt to allow removal/replacement.



Figure 4: Waterfront Common Elements Standard Furnishings

Staff therefore recommends approval of the project as submitted.

STAFF

Susan Hellman, Historic Preservation Planner, Planning & Zoning

Tony LaColla, AICP, Land Use Services Division Chief, Planning & Zoning

IV. CITY DEPARTMENT COMMENTS

Legend: C- code requirement R- recommendation S- suggestion F- finding

Zoning

F-1 The proposed bollards are consistent with the City Council approval of Section 9.06 to close King Street to vehicular traffic.

Code Administration

No comments received from Code.

Transportation and Environmental Services

F-1 After review of the information provided, an approved grading plan is not required at this time. Please note that if any changes are made to the plan it is suggested that T&ES be included in the review. (T&ES)

C-1 Any work within the right-of-way requires a separate permit from T&ES. (Sec. 5-2) (T&ES)

Alexandria Archaeology

F-1 No archaeological oversight necessary for this undertaking.

V. ATTACHMENTS

- 1 – Application Materials*
- 2 – Supplemental Materials*

ADDRESS OF PROJECT: public ROW at both ends of the 100 block of King Street, between 100 and 101 King, and 121 and 134 King Street

DISTRICT: ☒ Old & Historic Alexandria ☐ Parker – Gray ☐ 100 Year Old Building

TAX MAP AND PARCEL: n/a (public right of way) ZONING: KR

APPLICATION FOR: (Please check all that apply)

☒ CERTIFICATE OF APPROPRIATENESS☐ PERMIT TO MOVE, REMOVE, ENCAPSULATE OR DEMOLISH
(Required if more than 25 square feet of a structure is to be demolished/impacted)☐ WAIVER OF VISION CLEARANCE REQUIREMENT and/or YARD REQUIREMENTS IN A VISION
CLEARANCE AREA (Section 7-802, Alexandria 1992 Zoning Ordinance)☐ WAIVER OF ROOFTOP HVAC SCREENING REQUIREMENT
(Section 6-403(B)(3), Alexandria 1992 Zoning Ordinance)Applicant: ☒ Property Owner ☐ Business (Please provide business name & contact person)

Name: City of Alexandria

Address: PO Box 178

City: Alexandria State: VA Zip: 22313

Phone: 703.746.4139 E-mail: katye.north@alexandriava.gov

Authorized Agent (if applicable): ☐ Attorney ☐ Architect ☐ _____

Name: _____ Phone: _____

E-mail: _____

Legal Property Owner:

Name: City of Alexandria

Address: PO Box 178

City: Alexandria State: VA Zip: 22313

Phone: 703.746.4139 E-mail: katye.north@alexandriava.gov

- ☐ Yes ☒ No Is there an historic preservation easement on this property?
- ☐ Yes ☐ No If yes, has the easement holder agreed to the proposed alterations?
- ☐ Yes ☒ No Is there a homeowner's association for this property?
- ☐ Yes ☐ No If yes, has the homeowner's association approved the proposed alterations?

If you answered yes to any of the above, please attach a copy of the letter approving the project.

NATURE OF PROPOSED WORK: *Please check all that apply*

- ☐ NEW CONSTRUCTION
☒ EXTERIOR ALTERATION: *Please check all that apply.*
- | | | | |
|---|---|---|-----------------------------------|
| <input type="checkbox"/> awning | <input type="checkbox"/> fence, gate or garden wall | <input type="checkbox"/> HVAC equipment | <input type="checkbox"/> shutters |
| <input type="checkbox"/> doors | <input type="checkbox"/> windows | <input type="checkbox"/> siding | <input type="checkbox"/> shed |
| <input type="checkbox"/> lighting | <input type="checkbox"/> pergola/trellis | <input type="checkbox"/> painting unpainted masonry | |
| <input checked="" type="checkbox"/> other <small>Bollards</small> _____ | | | |
- ☐ ADDITION
☐ DEMOLITION/ENCAPSULATION
☐ SIGNAGE

DESCRIPTION OF PROPOSED WORK: *Please describe the proposed work in detail (Additional pages may be attached).*

Approval of bollards to close both ends of 100 block of King Street to vehicular traffic.
These bollards are already approved as part of the Waterfront Common Elements Plan
and used in the Waterfront Area. This approval would extend that approval one block to
the east to include the 100 block of King Street.

We also request BAR approval of applying the materials included in the Waterfront
Common Elements Plan to the 100 block of King Street.

SUBMITTAL REQUIREMENTS:

Items listed below comprise the **minimum supporting materials** for BAR applications. Staff may request additional information during application review. Please refer to the relevant section of the *Design Guidelines* for further information on appropriate treatments.

Applicants must use the checklist below to ensure the application is complete. Include all information and material that are necessary to thoroughly describe the project. Incomplete applications will delay the docketing of the application for review. Pre-application meetings are required for all proposed additions. All applicants are encouraged to meet with staff prior to submission of a completed application.

Demolition/Encapsulation : *All applicants requesting 25 square feet or more of demolition/encapsulation must complete this section. Check N/A if an item in this section does not apply to your project.*

- N/A
- ☐ ☐ Survey plat showing the extent of the proposed demolition/encapsulation.
☐ ☐ Existing elevation drawings clearly showing all elements proposed for demolition/encapsulation.
☐ ☐ Clear and labeled photographs of all elevations of the building if the entire structure is proposed to be demolished.
☐ ☐ Description of the reason for demolition/encapsulation.
☐ ☐ Description of the alternatives to demolition/encapsulation and why such alternatives are not considered feasible.

Additions & New Construction: *Drawings must be to scale and should not exceed 11" x 17" unless approved by staff. Check N/A if an item in this section does not apply to your project.*

- ☐ ^{N/A} ☐ Scaled survey plat showing dimensions of lot and location of existing building and other structures on the lot, location of proposed structure or addition, dimensions of existing structure(s), proposed addition or new construction, and all exterior, ground and roof mounted equipment.
- ☐ ☐ FAR & Open Space calculation form.
- ☐ ☐ Clear and labeled photographs of the site, surrounding properties and existing structures, if applicable.
- ☐ ☐ Existing elevations must be scaled and include dimensions.
- ☐ ☐ Proposed elevations must be scaled and include dimensions. Include the relationship to adjacent structures in plan and elevations.
- ☐ ☐ Materials and colors to be used must be specified and delineated on the drawings. Actual samples may be provided or required.
- ☐ ☐ Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
- ☐ ☐ For development site plan projects, a model showing mass relationships to adjacent properties and structures.

Signs & Awnings: *One sign per building under one square foot does not require BAR approval unless illuminated. All other signs including window signs require BAR approval. Check N/A if an item in this section does not apply to your project.*

- ☐ ^{N/A} ☐ Linear feet of building: Front: _____ Secondary front (if corner lot): _____.
- ☐ ☐ Square feet of existing signs to remain: _____.
- ☐ ☐ Photograph of building showing existing conditions.
- ☐ ☐ Dimensioned drawings of proposed sign identifying materials, color, lettering style and text.
- ☐ ☐ Location of sign (show exact location on building including the height above sidewalk).
- ☐ ☐ Means of attachment (drawing or manufacturer's cut sheet or bracket if applicable).
- ☐ ☐ Description of lighting (if applicable). Include manufacturer's cut sheet for any new lighting fixtures and information detailing how it will be attached to the building's facade.

Alterations: *Check N/A if an item in this section does not apply to your project.*

- ☐ ^{N/A} ☐ Clear and labeled photographs of the site, especially the area being impacted by the alterations, all sides of the building and any pertinent details.
- ☐ ☐ Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
- ☐ ☐ Drawings accurately representing the changes to the proposed structure, including materials and overall dimensions. Drawings must be to scale.
- ☐ ☐ An official survey plat showing the proposed locations of HVAC units, fences, and sheds.
- ☐ ☐ Historic elevations or photographs should accompany any request to return a structure to an earlier appearance.

ALL APPLICATIONS: *Please read and check that you have read and understand the following items:*

- ☐ I have submitted a filing fee with this application. (Checks should be made payable to the City of Alexandria. Please contact staff for assistance in determining the appropriate fee.)
 - ☒ I understand the notice requirements and will return a copy of the three respective notice forms to BAR staff at least five days prior to the hearing. If I am unsure to whom I should send notice I will contact Planning and Zoning staff for assistance in identifying adjacent parcels.
 - ☒ I, the applicant, or an authorized representative will be present at the public hearing.
 - ☒ I understand that any revisions to this initial application submission (including applications deferred for restudy) must be accompanied by the BAR Supplemental form and revised materials.
-

The undersigned hereby attests that all of the information herein provided including the site plan, building elevations, prospective drawings of the project, and written descriptive information are true, correct and accurate. The undersigned further understands that, should such information be found incorrect, any action taken by the Board based on such information may be invalidated. The undersigned also hereby grants the City of Alexandria permission to post placard notice as required by Article XI, Division A, Section 11-301(B) of the 1992 Alexandria City Zoning Ordinance, on the property which is the subject of this application. The undersigned also hereby authorizes the City staff and members of the BAR to inspect this site as necessary in the course of research and evaluating the application. The applicant, if other than the property owner, also attests that he/she has obtained permission from the property owner to make this application.

APPLICANT OR AUTHORIZED AGENT:Signature: Katy NorthPrinted Name: Katy NorthDate: Dec 6, 2021

OWNERSHIP AND DISCLOSURE STATEMENT

Use additional sheets if necessary

1. Applicant. State the name, address and percent of ownership of any person or entity owning an interest in the applicant, unless the entity is a corporation or partnership, in which case identify each owner of more than three percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

| Name | Address | Percent of Ownership |
|-----------------------|--------------------------------|----------------------|
| 1. City Of Alexandria | PO BOX 178 Alexandria VA 22313 | 100% |
| 2. | | |
| 3. | | |

2. Property. State the name, address and percent of ownership of any person or entity owning an interest in the property located at 100 block of King Street (address), unless the entity is a corporation or partnership, in which case identify each owner of more than three percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

| Name | Address | Percent of Ownership |
|-----------------------|--------------------------------|----------------------|
| 1. City of Alexandria | PO Box 178 Alexandria VA 22313 | 100% |
| 2. | | |
| 3. | | |

3. Business or Financial Relationships. Each person or entity listed above (1 and 2), with an ownership interest in the applicant or in the subject property is required to disclose any business or financial relationship, as defined by Section 11-350 of the Zoning Ordinance, existing at the time of this application, or within the 12-month period prior to the submission of this application with any member of the Alexandria City Council, Planning Commission, Board of Zoning Appeals or either Boards of Architectural Review.

| Name of person or entity | Relationship as defined by Section 11-350 of the Zoning Ordinance | Member of the Approving Body (i.e. City Council, Planning Commission, etc.) |
|--------------------------|---|---|
| 1. n/a | | |
| 2. | | |
| 3. | | |

NOTE: Business or financial relationships of the type described in Sec. 11-350 that arise after the filing of this application and before each public hearing must be disclosed prior to the public hearings.

As the applicant or the applicant's authorized agent, I hereby attest to the best of my ability that the information provided above is true and correct.

12/6/21

Date

Katye North

Printed Name

Katye North

Signature

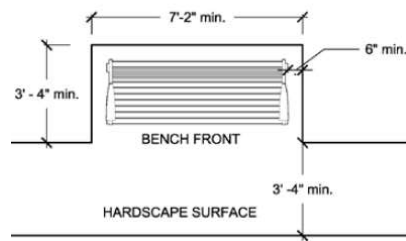
SITE FURNISHINGS - STREETS



CITY OF ALEXANDRIA STANDARD FURNISHINGS

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B-1 Bollard Collection

Classic Steel Bollards for Pedestrian/Traffic Control and Security Barriers

Materials: **Mild Steel**

Our B-1 Bollard Collection features steel bollards with three collars, available in 4, 6 and 8 inch diameters with fully welded dome top. Three mounting configurations are available: removable, permanent embed or surface mount. Removable bollards offer a visual deterrent and are easily taken out for emergency or service access. These bollards are available in many standard powder coat colors. The B-1, 6" and 8" bollards can be used for security purposes when specified with a separate concrete fill cap and heavy schedule 80 steel pipe in permanent embed options.



- Available in schedule 10, 40 or 80 pipe, as required
- Bollards available in 30", 36", 42" or 48" standard heights
- Choose from three mounting styles: surface, removable or permanent embed
- B-1 Bollard Collection has optional eyebolts and decorative rivets



B-1 Bollard Collection

Specifications

| Part. No. | Description | Size (W x H) | Weight | Mounting |
|----------------|--|----------------------|--------|-----------------|
| B-0120-40-3004 | Steel Bollard w/Collars - 4", 30", Permanent Embed, Schedule 40 | 4" x 30", length 48" | 52 | Permanent Embed |
| B-0100-40-3004 | Steel Bollard w/Collars - 4", 30", Surface, Sched. 40 | 4" x 30", length 30" | 46 | Surface-mount |
| B-0140-40-3004 | Steel Bollard w/Collars - 4", 30", Removable, Sched. 40, use 4" Receiver | 4" x 30", length 42" | 69 | Removable |
| B-0120-40-3604 | Steel Bollard w/Collars - 4", 36", Permanent Embed, Sched. 40 | 4" x 36", length 54" | 57 | Permanent Embed |
| B-0100-40-3604 | Steel Bollard w/Collars - 4", 36", Surface, Sched. 40 | 4" x 36", length 36" | 50 | Surface-mount |
| B-0140-40-3604 | Steel Bollard w/Collars - 4", 36", Removable, Sched. 40, use 4" Receiver | 4" x 36", length 48" | 74 | Removable |
| B-0120-40-4204 | Steel Bollard w/Collars - 4", 42", Permanent Embed, Sched. 40 | 4" x 42", length 60" | 62 | Permanent Embed |
| B-0100-40-4204 | Steel Bollard w/Collars - 4", 42", Surface, Sched. 40 | 4" x 42", length 42" | 54 | Surface-mount |
| B-0140-40-4204 | Steel Bollard w/Collars - 4", 42", Removable, Sched. 40, use 4" Receiver | 4" x 42", length 54" | 79 | Removable |
| B-0120-40-4804 | Steel Bollard w/Collars - 4", 48", Permanent Embed, Sched. 40 | 4" x 48", length 66" | 66 | Permanent Embed |
| B-0100-40-4804 | Steel Bollard w/Collars - 4", 48", Surface, Sched. 40 | 4" x 48", length 48" | 58 | Surface-mount |
| B-0140-40-4804 | Steel Bollard w/Collars - 4", 48", Removable, Sched. 40, use 4" Receiver | 4" x 48", length 60" | 83 | Removable |
| B-0120-10-3006 | Steel Bollard w/Collars - 6", 30", Permanent Embed, Sched. 10 | 6" x 30", length 48" | 63 | Permanent Embed |
| B-0120-40-3006 | Steel Bollard w/Collars - 6", 30", Permanent Embed, Sched. 40 | 6" x 30", length 48" | 89 | Permanent Embed |
| B-0120-80-3006 | Steel Bollard w/Collars - 6", 30", Permanent Embed, Sched. 80 | 6" x 30", length 48" | 113 | Permanent Embed |
| B-0100-10-3006 | Steel Bollard w/Collars - 6", 30", Surface, Sched. 10 | 6" x 30", length 30" | 63 | Surface-mount |
| B-0100-40-3006 | Steel Bollard w/Collars - 6", 30", Surface, Sched. 40 | 6" x 30", length 30" | 89 | Surface-mount |
| B-0100-80-3006 | Steel Bollard w/Collars - 6", 30", Surface, Sched. 80 | 6" x 30", length 30" | 113 | Surface-mount |
| B-0140-10-3006 | Steel Bollard w/Collars - 6", 30", Removable Sched. 10, use 6" Receiver | 6" x 30", length 48" | 93 | Removable |
| B-0140-40-3006 | Steel Bollard w/Collars - 6", 30", Removable Sched. 40, use 6" Receiver | 6" x 30", length 48" | 119 | Removable |
| B-0140-80-3006 | Steel Bollard w/Collars - 6", 30", Removable Sched. 80, use 6" Receiver | 6" x 30", length 48" | 143 | Removable |
| B-0120-10-3606 | Steel Bollard w/Collars - 6", 36", Permanent Embed, Sched. 10 | 6" x 36", length 54" | 67 | Permanent Embed |
| B-0120-40-3606 | Steel Bollard w/Collars - 6", 36", Permanent Embed, Sched. 40 | 6" x 36", length 54" | 96 | Permanent Embed |
| B-0120-80-3606 | Steel Bollard w/Collars - 6", 36", Permanent Embed, Sched. 80 | 6" x 36", length 54" | 124 | Permanent Embed |
| B-0100-10-3606 | Steel Bollard w/Collars - 6", 36", Surface, Sched. 10 | 6" x 36", length 36" | 67 | Surface-mount |
| B-0100-40-3606 | Steel Bollard w/Collars - 6", 36", Surface, Sched. 40 | 6" x 36", length 36" | 96 | Surface-mount |
| B-0100-80-3606 | Steel Bollard w/Collars - 6", 36", Surface, Sched. 80 | 6" x 36", length 36" | 124 | Surface-mount |
| B-0140-10-3606 | Steel Bollard w/Collars - 6", 36", Removable Sched. 10, use 6" Receiver | 6" x 36", length 54" | 97 | Removable |
| B-0140-40-3606 | Steel Bollard w/Collars - 6", 36", Removable Sched. 40, use 6" Receiver | 6" x 36", length 54" | 126 | Removable |
| B-0140-80-3606 | Steel Bollard w/Collars - 6", 36", Removable Sched. 80, use 6" Receiver | 6" x 36", length 54" | 154 | Removable |
| B-0120-10-4206 | Steel Bollard w/Collars - 6", 42", Permanent Embed, Sched. 10 | 6" x 42", length 60" | 71 | Permanent Embed |
| B-0120-40-4206 | Steel Bollard w/Collars - 6", 42", Permanent Embed, Sched. 40 | 6" x 42", length 60" | 103 | Permanent Embed |
| B-0120-80-4206 | Steel Bollard w/Collars - 6", 42", Permanent Embed, Sched. 80 | 6" x 42", length 60" | 135 | Permanent Embed |
| B-0100-10-4206 | Steel Bollard w/Collars - 6", 42", Surface, Sched. 10 | 6" x 42", length 42" | 71 | Surface-mount |
| B-0100-40-4206 | Steel Bollard w/Collars - 6", 42", Surface, Sched. 40 | 6" x 42", length 42" | 103 | Surface-mount |
| B-0100-80-4206 | Steel Bollard w/Collars - 6", 42", Surface, Sched. 80 | 6" x 42", length 42" | 135 | Surface-mount |

Bollards available in 30", 36", 42" and 48" heights, removable bollard receivers sold separately.



B-1 Bollard Collection

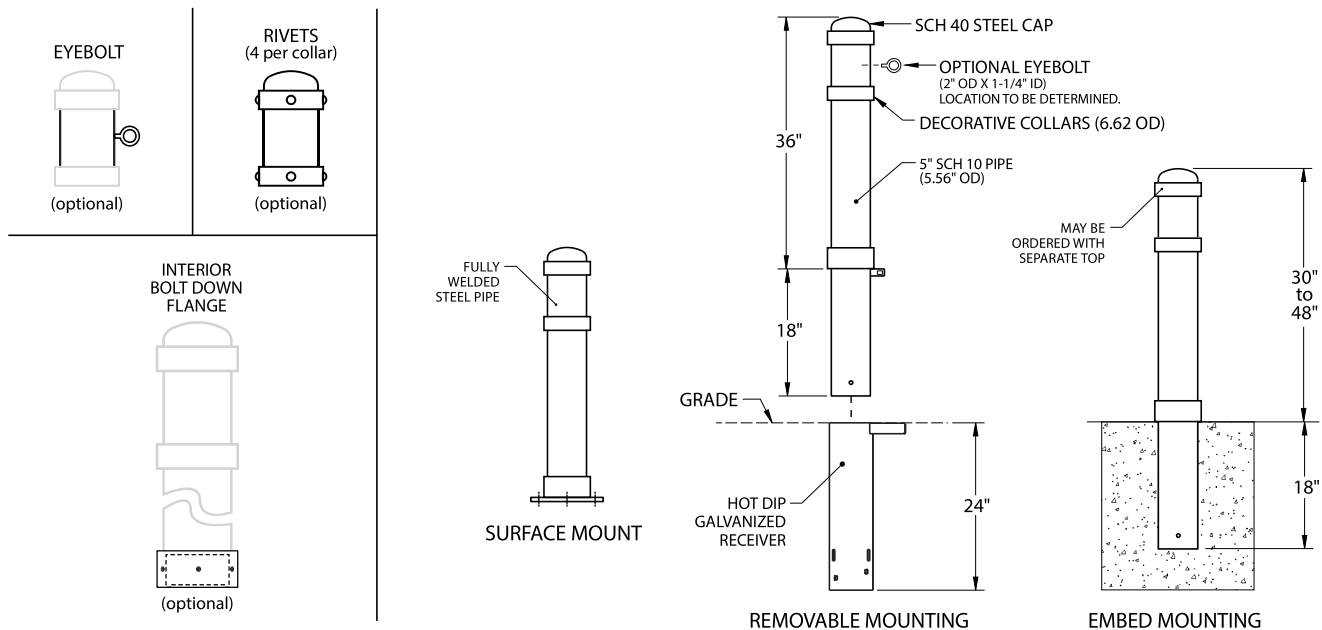
Specifications

| Part. No. | Description | Size (W x H) | Weight | Mounting |
|-----------------|---|----------------------|--------|-----------------|
| B-0140-10-4206 | Steel Bollard w/Collars - 6", 42", Removable Schedule 10, use 6" Receiver | 6" x 42", length 60" | 101 | Removable |
| B-0140-40-4206 | Steel Bollard w/Collars - 6", 42", Removable Sched. 40, use 6" Receiver | 6" x 42", length 60" | 133 | Removable |
| B-0140-80-4206 | Steel Bollard w/Collars - 6", 42", Removable Sched. 80, use 6" Receiver | 6" x 42", length 60" | 165 | Removable |
| B-0120-10-4806 | Steel Bollard w/Collars - 6", 48", Permanent Embed, Sched. 10 | 6" x 48", length 66" | 75 | Permanent Embed |
| B-0120-40-4806 | Steel Bollard w/Collars - 6", 48", Permanent Embed, Sched. 40 | 6" x 48", length 66" | 110 | Permanent Embed |
| B-0120-80-4806 | Steel Bollard w/Collars - 6", 48", Permanent Embed, Sched. 80 | 6" x 48", length 66" | 146 | Permanent Embed |
| B-0100-10-4806 | Steel Bollard w/Collars - 6", 48", Surface, Sched. 10 | 6" x 48", length 48" | 75 | Surface-mount |
| B-0100-40-4806 | Steel Bollard w/Collars - 6", 48", Surface, Sched. 40 | 6" x 48", length 48" | 110 | Surface-mount |
| B-0100-80-4806 | Steel Bollard w/Collars - 6", 48", Surface, Sched. 80 | 6" x 48", length 48" | 146 | Surface-mount |
| B-0140-10-4806 | Steel Bollard w/Collars - 6", 48", Removable Sched. 10, use 6" Receiver | 6" x 48", length 66" | 105 | Removable |
| B-0140-40-4806 | Steel Bollard w/Collars - 6", 48", Removable Sched. 40, use 6" Receiver | 6" x 48", length 66" | 140 | Removable |
| B-0140-80-4806 | Steel Bollard w/Collars - 6", 48", Removable Sched. 80, use 6" Receiver | 6" x 48", length 66" | 176 | Removable |
| B-0120-188-3008 | Steel Bollard w/Collars - 8", 30", Permanent Embed, .188 Wall | 8" x 30", length 48" | 133 | Permanent Embed |
| B-0120-40-3008 | Steel Bollard w/Collars - 8", 30", Permanent Embed, Sched. 40 | 8" x 30", length 48" | 167 | Permanent Embed |
| B-0100-188-3008 | Steel Bollard w/Collars - 8", 30", Surface, .188 Wall | 8" x 30", length 30" | 133 | Surface-mount |
| B-0100-40-3008 | Steel Bollard w/Collars - 8", 30", Surface, Sched. 40 | 8" x 30", length 30" | 138 | Surface-mount |
| B-0140-188-3008 | Steel Bollard w/Collars - 8", 30", Removable .188 Wall, use 8" Receiver | 8" x 30", length 48" | 163 | Removable |
| B-0140-40-3008 | Steel Bollard w/Collars - 8", 30", Removable Sched. 40, use 8" Receiver | 8" x 30", length 48" | 191 | Removable |
| B-0120-188-3608 | Steel Bollard w/Collars - 8", 36", Permanent Embed, .188 Wall | 8" x 36", length 54" | 141 | Permanent Embed |
| B-0120-40-3608 | Steel Bollard w/Collars - 8", 36", Permanent Embed, Sched. 40 | 8" x 36", length 54" | 181 | Permanent Embed |
| B-0100-188-3608 | Steel Bollard w/Collars - 8", 36", Surface, .188 Wall | 8" x 36", length 36" | 141 | Surface-mount |
| B-0100-40-3608 | Steel Bollard w/Collars - 8", 36", Surface, Sched. 40 | 8" x 36", length 36" | 153 | Surface-mount |
| B-0140-188-3608 | Steel Bollard w/Collars - 8", 36", Removable .188 Wall, use 8" Receiver | 8" x 36", length 54" | 171 | Removable |
| B-0140-40-3608 | Steel Bollard w/Collars - 8", 36", Removable Sched. 40, use 8" Receiver | 8" x 36", length 54" | 205 | Removable |
| B-0120-188-4208 | Steel Bollard w/Collars - 8", 42", Permanent Embed, .188 Wall | 8" x 42", length 60" | 149 | Permanent Embed |
| B-0120-40-4208 | Steel Bollard w/Collars - 8", 42", Permanent Embed, Sched. 40 | 8" x 42", length 60" | 196 | Permanent Embed |
| B-0100-188-4208 | Steel Bollard w/Collars - 8", 42", Surface, .188 Wall | 8" x 42", length 42" | 149 | Surface-mount |
| B-0100-40-4208 | Steel Bollard w/Collars - 8", 42", Surface, Sched. 40 | 8" x 42", length 42" | 167 | Surface-mount |
| B-0140-188-4208 | Steel Bollard w/Collars - 8", 42", Removable .188 Wall, use 8" Receiver | 8" x 42", length 60" | 179 | Removable |
| B-0140-40-4208 | Steel Bollard w/Collars - 8", 42", Removable Sched. 40, use 8" Receiver | 8" x 42", length 60" | 220 | Removable |
| B-0120-188-4808 | Steel Bollard w/Collars - 8", 48", Permanent Embed, .188 Wall | 8" x 48", length 66" | 157 | Permanent Embed |
| B-0120-40-4808 | Steel Bollard w/Collars - 8", 48", Permanent Embed, Sched. 40 | 8" x 48", length 66" | 210 | Permanent Embed |
| B-0100-188-4808 | Steel Bollard w/Collars - 8", 48", Surface, .188 Wall | 8" x 48", length 48" | 157 | Surface-mount |
| B-0100-40-4808 | Steel Bollard w/Collars - 8", 48", Sched. 40 | 8" x 48", length 48" | 181 | Surface-mount |
| B-0140-188-4808 | Steel Bollard w/Collars - 8", 48", Removable .188 Wall, use 8" Receiver | 8" x 48", length 66" | 187 | Removable |
| B-0140-40-4808 | Steel Bollard w/Collars - 8", 48", Removable Sched. 40, use 8" Receiver | 8" x 48", length 66" | 234 | Removable |

Bollards available in 30", 36", 42" and 48" heights, removable bollard receivers sold separately.

Bollard Options

| Part. No. | Description | Size (W x H) | Weight | Mounting |
|-----------|--|--------------|--------|----------|
| | Bollard Options | | | |
| B-REC4 | 4" Receiver for removable bollard | | 22 | |
| B-RCC4 | 4" Receiver Cover for removable bollard | | 4 | |
| B-REC6 | 6" Receiver for removable bollard | | 27 | |
| B-RCC6 | 6" Receiver Cover for removable bollard | | 5 | |
| B-REC8 | 8" Receiver for removable bollard | | 30 | |
| B-RCC8 | 8" Receiver Cover for removable bollard | | 6 | |
| B-RIV | Rivets (per bollard) | | 1 | |
| B-LWC | Lockwell Cover | | 1 | |
| B-EB | Eyebolt (each) | | 1 | |
| B-PD | Brass Padlock | | 1 | |
| B-TOP | Separate Top (for concrete-filled bollard) | | 0 | |
| B-RLWC | Retrofit Lockwell Cover | | 1 | |
| B-IF | Interior Flange | | 0 | |



B-1 Bollards shown above in 5" pipe, also available in 8" dia. and in 30", 36", 42" and 48" heights, removable bollard receivers sold separately.

Choose from several standard powder coat colors. Bollards will have a zinc rich undercoat applied and a polyester based powder coat on top.

Bollard Options: Schedule 10, 40 or 80 pipe, eyebolts, rivets. On removable bollards: Receiver cover, lockwell cover and padlock. Mounting: Surface, removable or embed.

NOTE:

1. Depth and diameter of installation hole may vary with soil conditions. Consult project engineer for correct dimensions.

2. REMOVABLE BOLLARDS ONLY: Receiver must be installed in drainage rock. Improper installation will void the warranty.

For more information on our Traffic & Pedestrian Control products (including Planter Barriers, GFRC and Lit Bollards), see the website.



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