



SECTION

| PIPE BOLLARD DIMENSIONS | | | FOOTING DIMENSIONS | |
|-------------------------|------------------|-----------------|--------------------|---------------|
| NOMINAL PIPE SIZE | OUTSIDE DIAMETER | ANCHOR BAR SIZE | MINIMUM DIAMETER | MINIMUM DEPTH |
| 3" | 3.50" | 3/4"φ X 6" | 12" | 2'-6" |
| 4" | 4.50" | 3/4"φ X 8" | 14" | 3'-0" |
| 6" | 6.625" | 3/4"φ X 12" | 20" | 3'-0" |

SEE NOTES ON SHEET 2



FIXED STEEL BOLLARD

REVIEWED BY THE PARK STANDARDS COMMITTEE, AND
APPROVED BY THE CHIEF OF DESIGN & CONSTRUCTION

L. Gajjar

10/01/2020

STD PLAN

102

SHEET 1 OF 2
NOT TO SCALE

FABRICATION

1. PIPE TO BE STANDARD WEIGHT (SCH 40) ASTM A135 GALVANIZED STEEL.
2. PIPE CAP TO BE STANDARD WEIGHT, BUTT WELD TYPE, WITH BEVELED EDGE.
3. WELDERS TO BE AWS CERTIFIED AND PREQUALIFIED FOR THE WELDING TO BE PERFORMED.
4. THOROUGHLY CLEAN AND PROFILE THE SURFACES TO BE PAINTED. FOLLOW RECOMMENDATIONS IN THE "GUIDE TO PREPARING HOT-DIP GALVANIZED STEEL FOR PAINT" PUBLISHED BY THE AMERICAN GALVANIZERS ASSOCIATION (AGA)
HTTPS://GALVANIZEIT.ORG.
5. PRIME AND PAINT TOP 42" (MINIMUM) OF BOLLARD "EBRPD BROWN METAL" PER STD PLAN 003 PAINT SPECIFICATION.

INSTALLATION

6. LOCATE UNDERGROUND UTILITIES PRIOR TO DIGGING. CALL USA (UNDERGROUND SERVICE ALERT) 1-800-277-2600, MON THRU FRI 6AM TO 7PM, A MINIMUM 2 WORKING DAYS WITH A MAXIMUM 14 CALENDAR DAYS, TO OBTAIN A TICKET. CONTACT THE DISTRICT INSPECTOR OR PARK SUPERVISOR FOR DISTRICT UTILITIES NOT LOCATED BY USA.
7. CONCRETE TO BE COMMERCIAL 5-SACK PRE-MIX CONCRETE OR EQUIVALENT.
8. TOUCH-UP ANY DAMAGED FINISH AFTER INSTALLATION.
9. REFLECTIVE SAFETY TAPE TO BE 3" WIDE YELLOW, RATED FOR 5 YEAR MIN OUTDOOR LIFE AND MEET D.O.T. SPECIFICATION FP-85 FOR TYPE 2 SHEETING.
10. EBRPD BOLLARD DETAIL MAY NOT MEET THE PROTECTION REQUIREMENTS OF PG&E AND OTHER AGENCIES. WHERE APPLICABLE, USE STANDARD PLANS PROVIDED BY AGENCY HAVING JURISDICTION.



FIXED STEEL BOLLARD - NOTES

REVIEWED BY THE PARK STANDARDS COMMITTEE, AND APPROVED BY THE CHIEF OF DESIGN & CONSTRUCTION

10/01/2020

EAST BAY REGIONAL PARK DISTRICT - STANDARD PLANS

STD PLAN

102

SHEET 1 OF 2

NOT TO SCALE