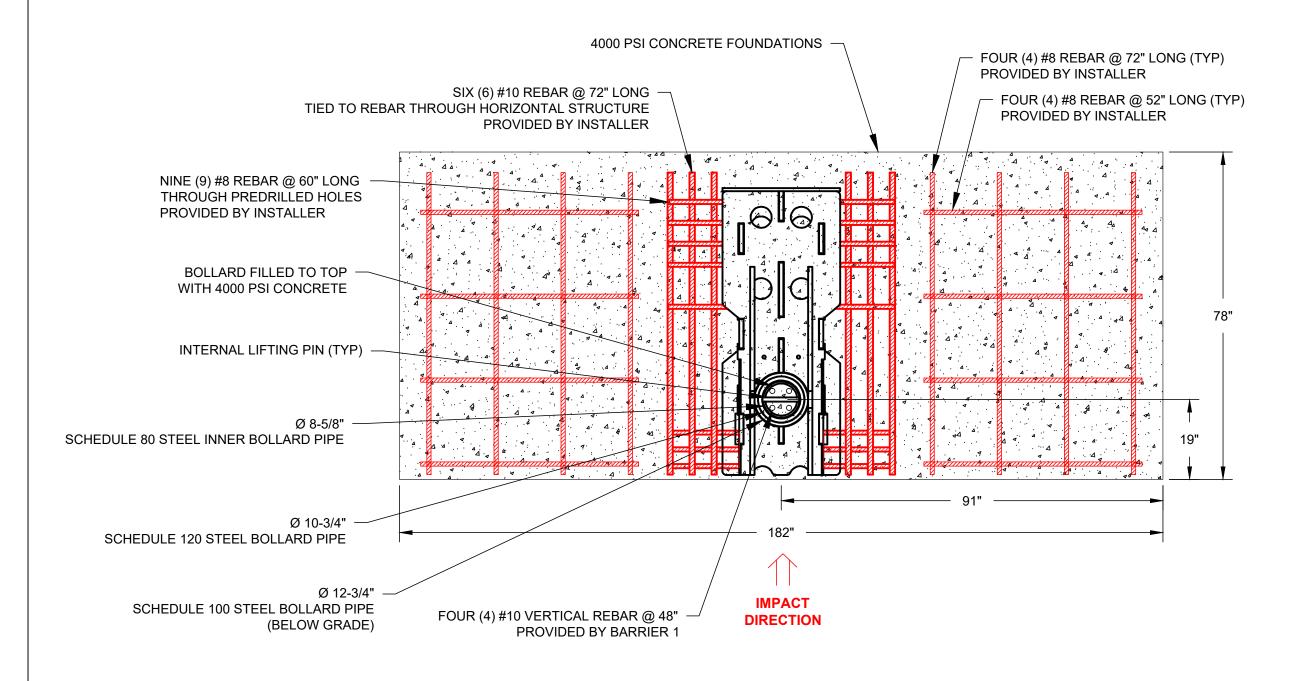
SHALLOW MOUNT BOLLARD - MODEL SMB-1200-SA
CRASH TESTED TO ASTM F2656-07 - M50/P1 RATED - STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT

TYPICAL SINGLE BOLLARD INSTALLATION





BARRIER1 SYSTEMS, LLC

5335 US 220 SUMMERFIELD, NC 27358 (336) 617-8478 www.barrier1.com sales@barrier1.com

PATENT PROTECTED

THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE PROPRIETARY AND CONFIDENTIAL, AND ARE AUTHORIZED ONLY FOR USE FOR WORK ASSOCIATED WITH BARRIER1 SYSTEMS, LLC ALL RIGHTS RESERVED.

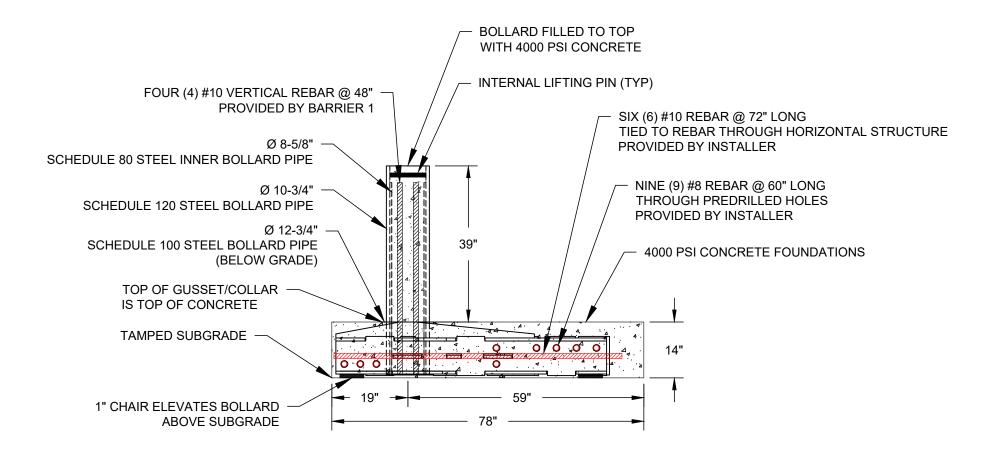
PLAN VIEW AND ELEVATION (STAND-ALONE)

SMB-1200-SA WEBSITE DRAWING SHEET: 1 OF 6

20240422-10-W

SHALLOW MOUNT BOLLARD - MODEL SMB-1200-SA
CRASH TESTED TO ASTM F2656-07 - M50/P1 RATED - STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT

TYPICAL SINGLE BOLLARD INSTALLATION





BARRIER1 SYSTEMS, LLC

5335 US 220 SUMMERFIELD, NC 27358 (336) 617-8478 www.barrier1.com sales@barrier1.com

PATENT PROTECTED

THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE PROPRIETARY AND CONFIDENTIAL, AND ARE AUTHORIZED ONLY FOR USE FOR WORK ASSOCIATED WITH BARRIER1 SYSTEMS, LLC ALL RIGHTS RESERVED.

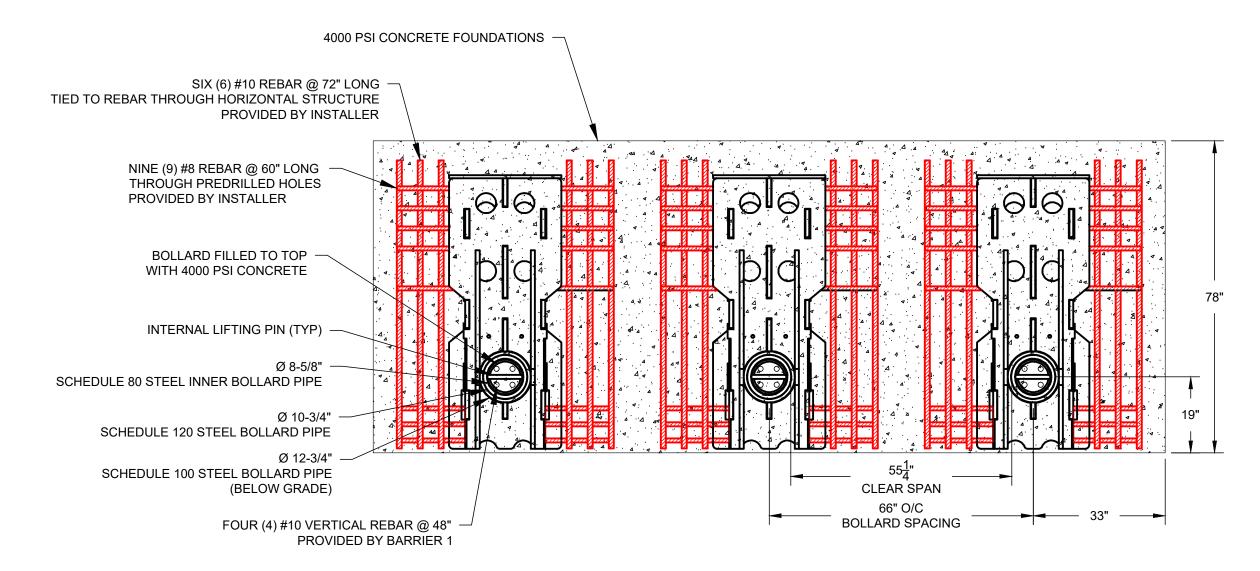
PLAN VIEW AND ELEVATION (STAND-ALONE)

SMB-1200-SA WEBSITE DRAWING SHEET: 2 OF 6

20240422-10-W

SHALLOW MOUNT BOLLARD - MODEL SMB-1200-SA
CRASH TESTED TO ASTM F2656-07 - M50/P1 RATED - STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT

TYPICAL BOLLARD ARRAY INSTALLATION



NOTE:

1. MODIFIED SPACING FOR SITE SPECIFIC CONDITIONS AVAILABLE



BARRIER1 SYSTEMS, LLC

5335 US 220 SUMMERFIELD, NC 27358 (336) 617-8478 www.barrier1.com sales@barrier1.com

PATENT PROTECTED

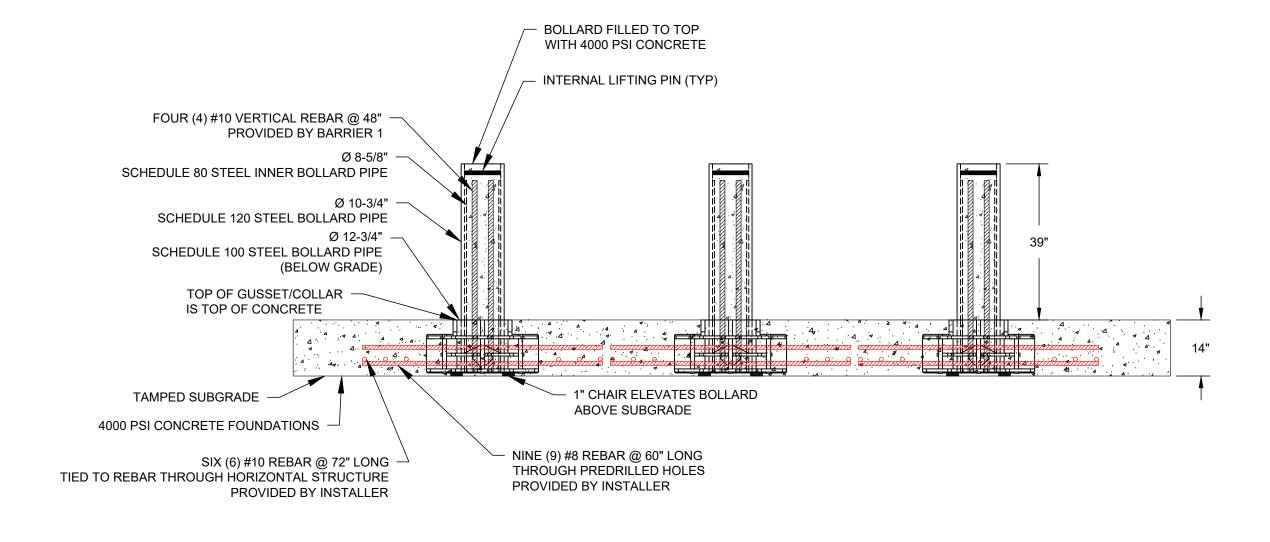
THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE PROPRIETARY AND CONFIDENTIAL, AND ARE AUTHORIZED ONLY FOR USE FOR WORK ASSOCIATED WITH BARRIER1 SYSTEMS, LLC ALL RIGHTS RESERVED.

PLAN VIEW AND ELEVATION (ARRAY) SMB-1200-SA WEBSITE DRAWING SHEET: 3 OF 6

20240422-10-W

SHALLOW MOUNT BOLLARD - MODEL SMB-1200-SA
CRASH TESTED TO ASTM F2656-07 - M50/P1 RATED - STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT

TYPICAL SINGLE BOLLARD INSTALLATION



NOTE:

1. MODIFIED SPACING FOR SITE SPECIFIC CONDITIONS AVAILABLE



BARRIER1 SYSTEMS, LLC

5335 US 220 SUMMERFIELD, NC 27358 (336) 617-8478 www.barrier1.com sales@barrier1.com

PATENT PROTECTED

THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE PROPRIETARY AND CONFIDENTIAL, AND ARE AUTHORIZED ONLY FOR USE FOR WORK ASSOCIATED WITH BARRIER1 SYSTEMS, LLC ALL RIGHTS RESERVED.

PLAN VIEW AND ELEVATION (ARRAY)

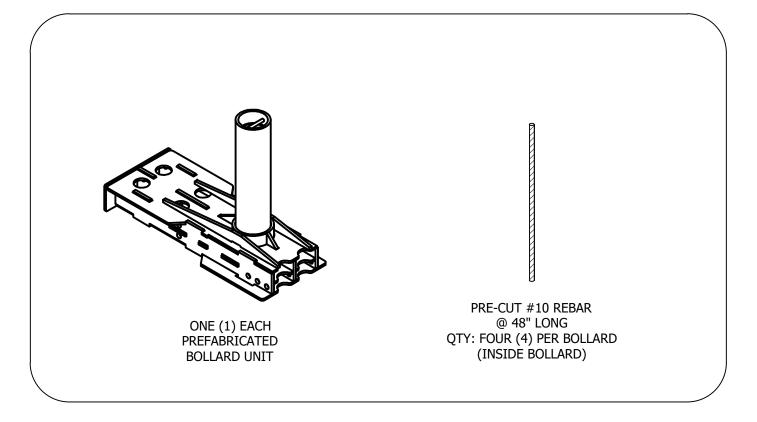
SMB-1200-SA WEBSITE DRAWING SHEET: 4 OF 6

20240422-10-W

SHALLOW MOUNT BOLLARD - MODEL SMB-1200-SA
CRASH TESTED TO ASTM F2656-07 - M50/P1 RATED - STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT

PRODUCTS PROVIDED BY BARRIER1

STANDARD FINISH: GLOSS BLACK PAINT



MATERIALS PROVIDED BY INSTALLATION CONTRACTOR:

- 1. ABOUT 1.65 CUBIC YARDS OF 4000 PSI CONCRETE PER BOLLARD FOR ARRAY ABOUT 4.5 CUBIC YARDS OF 4000 PSI CONCRETE PER BOLLARD FOR STANDALONE
- 2. NINE (9) #8 REBAR @60"
- 3. SIX (6) #10 REBAR @72"
- 4. MASONRY BRICKS OR CHAIRS TO ELEVATE BOLLARD STEEL OFF SUBGRADE



BARRIER1 SYSTEMS, LLC

5335 US 220 SUMMERFIELD, NC 27358 (336) 617-8478 www.barrier1.com sales@barrier1.com

PATENT PROTECTED

THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE PROPRIETARY AND CONFIDENTIAL, AND ARE AUTHORIZED ONLY FOR USE FOR WORK ASSOCIATED WITH BARRIER1 SYSTEMS, LLC ALL RIGHTS RESERVED.

MATERIALS PROVIDED

SMB-1200-SA WEBSITE DRAWING SHEET: 5 OF 6

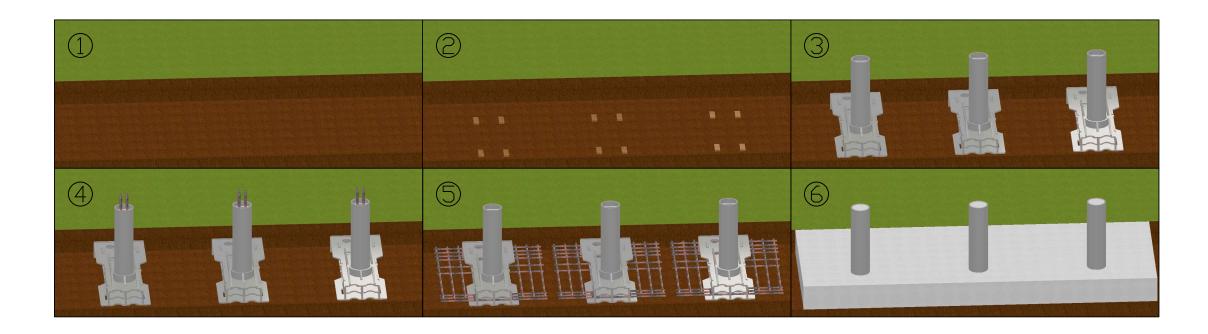
20240422-10-W

SHALLOW MOUNT BOLLARD - MODEL SMB-1200-SA
CRASH TESTED TO ASTM F2656-07 - M50/P1 RATED - STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT

INSTALLATION STEPS

- 1 EXCAVATE THEN TAMP SUBGRADE WITH PLATE TAMPER.
- USE MASONRY BLOCK OR CHAIRS TO ELEVATE BOLLARD
 OFF SUBGRADE, SO THAT TOP OF GUSSET / SLEEVE IS SAME
 HEIGHT AS TOP OF CONCRETE.
- (3) PLACE PREFABRICATED BOLLARDS INTO EXCAVATION.

- (4) INSERT #10 VERTICAL REBAR INTO BOLLARD TUBE.
- INSERT #8 REBAR THROUGH PREFABRICATED HOLES IN BOLLARD AND TIE TO PERPENDICULAR #8 REBAR.
- 6 FILL BOLLARD TUBE AND FOUNDATION WITH CONCRETE.





BARRIER1 SYSTEMS, LLC

5335 US 220 SUMMERFIELD, NC 27358 (336) 617-8478 www.barrier1.com sales@barrier1.com

PATENT PROTECTED

THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE PROPRIETARY AND CONFIDENTIAL, AND ARE AUTHORIZED ONLY FOR USE FOR WORK ASSOCIATED WITH BARRIER1 SYSTEMS, LLC ALL RIGHTS RESERVED.

INSTALLATION DETAILS

SMB-1200-SA WEBSITE DRAWING SHEET: 6 OF 6

20240422-10-W