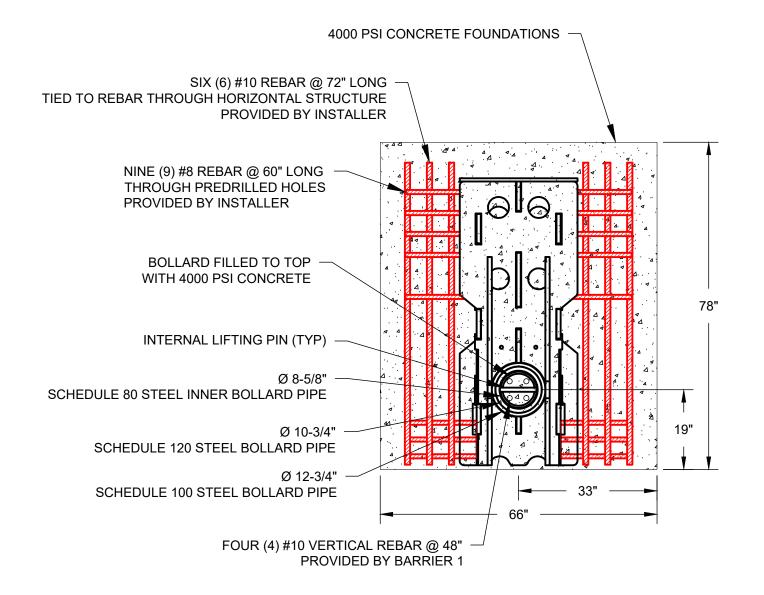
SHALLOW MOUNT BOLLARD - MODEL SMB-1200-SA
CRASH TESTED TO ASTM F2656-07 - M50/P1 RATED - STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT

TYPICAL SINGLE BOLLARD INSTALLATION



PLEASE SIGN AND DATE BELOW TO ACKNOWLEDGE ACCEPTANCE OF THE SUBMITTAL DRAWING.	
NAME:]
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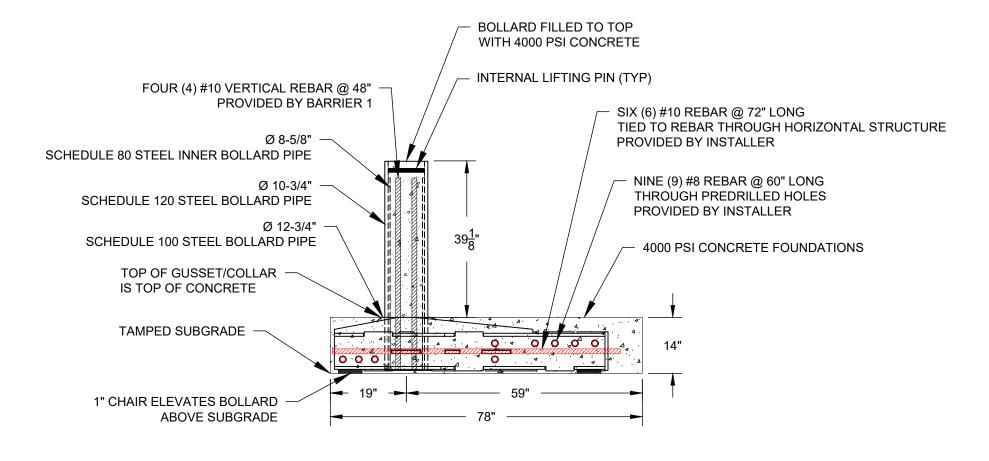
PLAN VIEW AND ELEVATION (STAND-ALONE)

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

20230426-10-M

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





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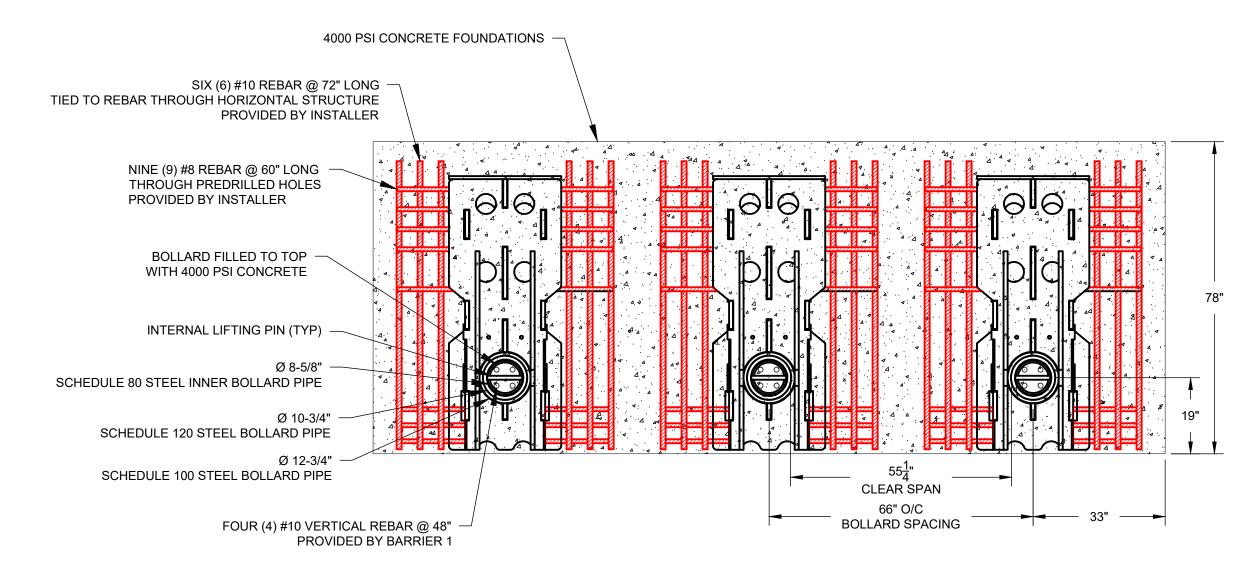
PLAN VIEW AND ELEVATION (STAND-ALONE)

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

20230426-10-M

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



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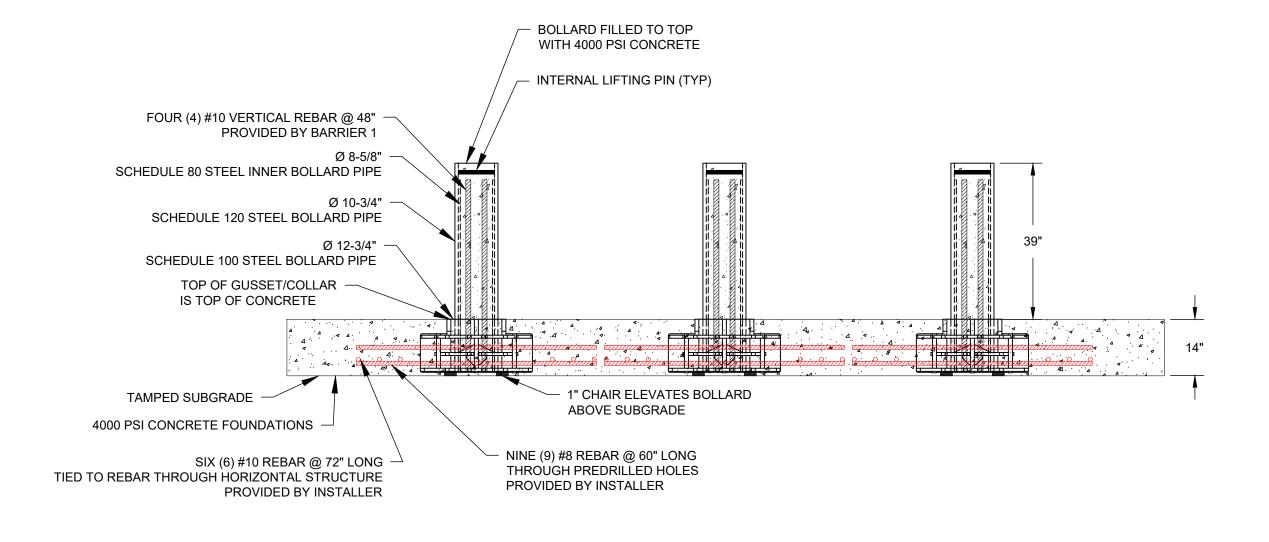
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PLAN VIEW AND ELEVATION (ARRAY) SMB-1200-SA SUBMITTAL DRAWING SHEET: 3 OF 6

20230426-10-M

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



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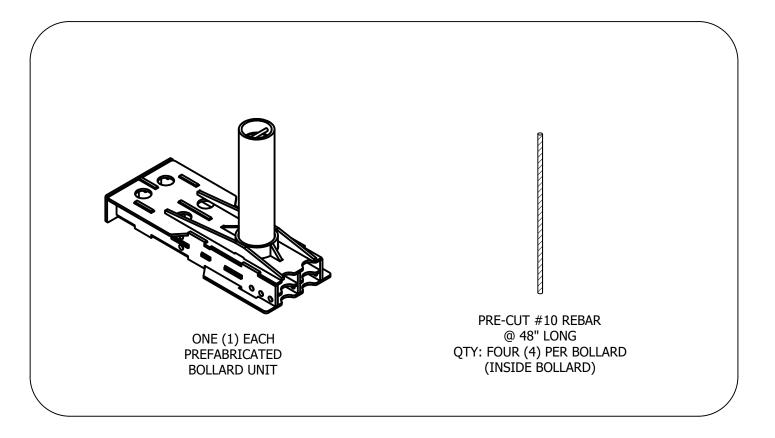
PLAN VIEW AND ELEVATION (ARRAY)

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

20230426-10-M

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



MATERIALS PROVIDED BY INSTALLATION CONTRACTOR:

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



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MATERIALS PROVIDED

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

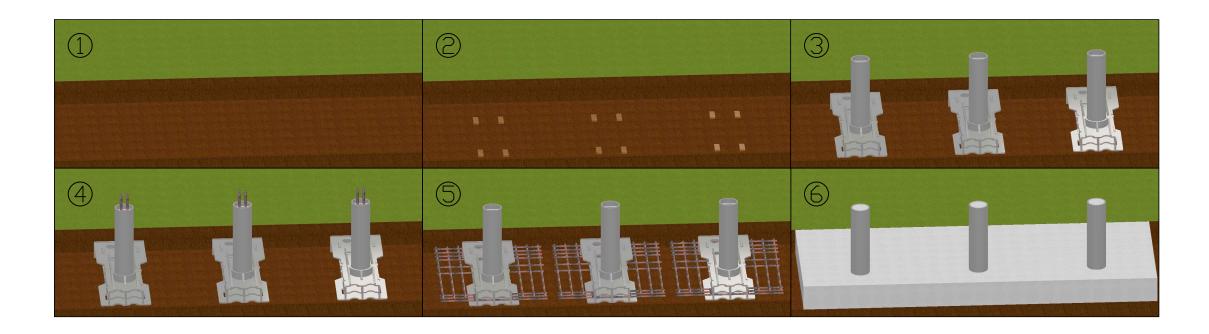
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SHALLOW MOUNT BOLLARD - MODEL SMB-1200-SA
CRASH TESTED TO ASTM F2656-07 - M50/P1 RATED - STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT

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





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INSTALLATION DETAILS

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

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