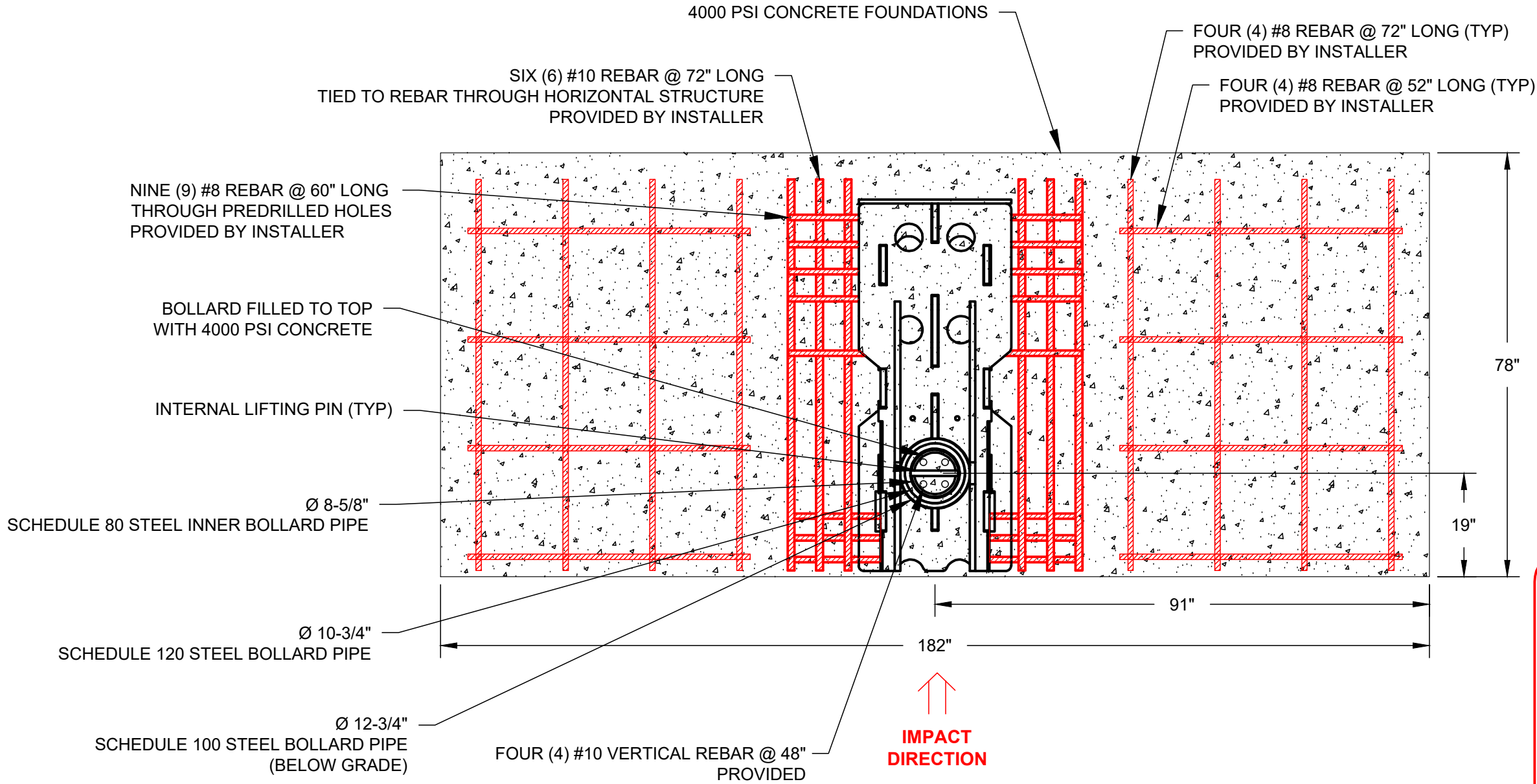


M50 SHALLOW MOUNT

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:

SIGNATURE:

DATE:



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info@idealshield.com

PATENT PROTECTED

PLAN VIEW AND
ELEVATION (STAND-ALONE)

SMB-1200-SA
SUBMITTAL DRAWING

SHEET: 1 OF 6

20250528-10-M

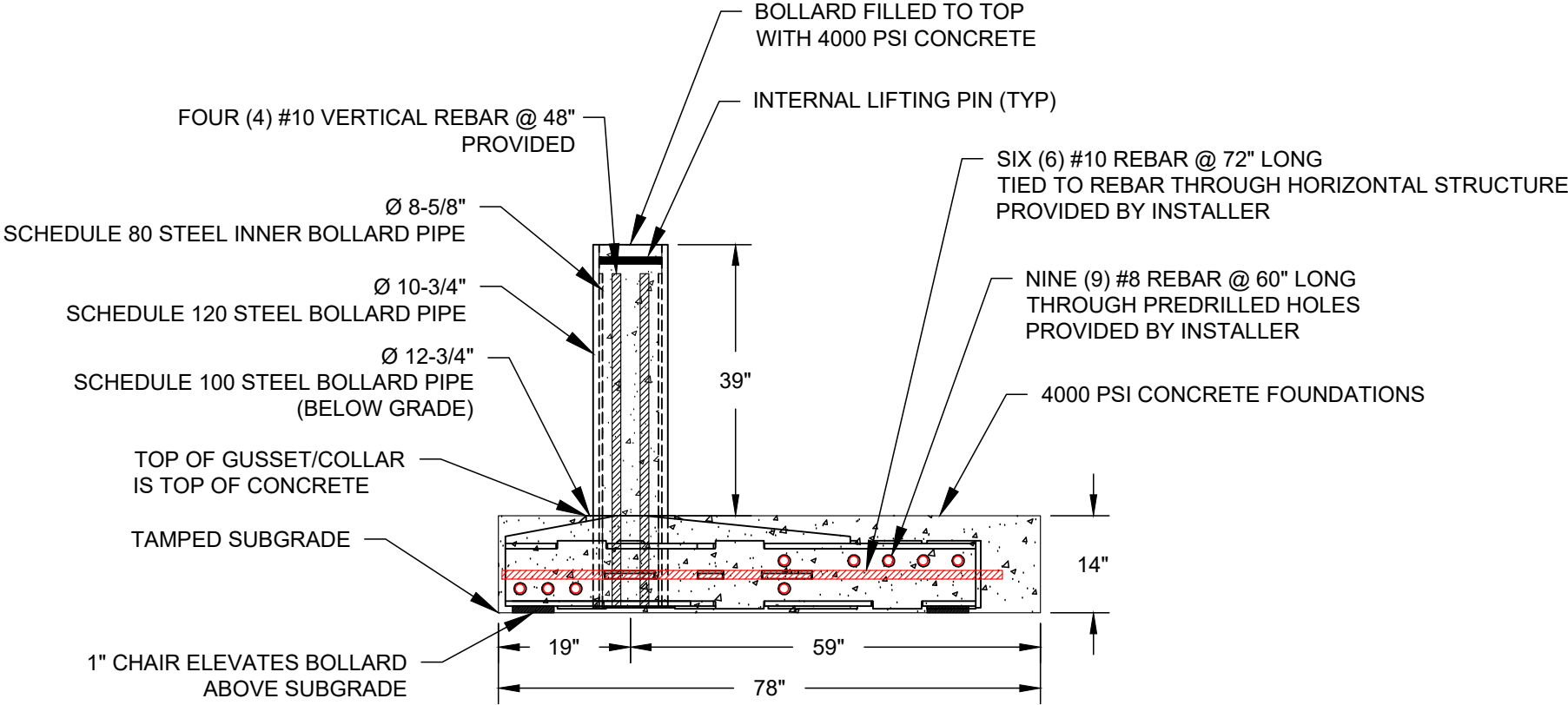
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M50 SHALLOW MOUNT

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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SHEET: 2 OF 6

20250528-10-M

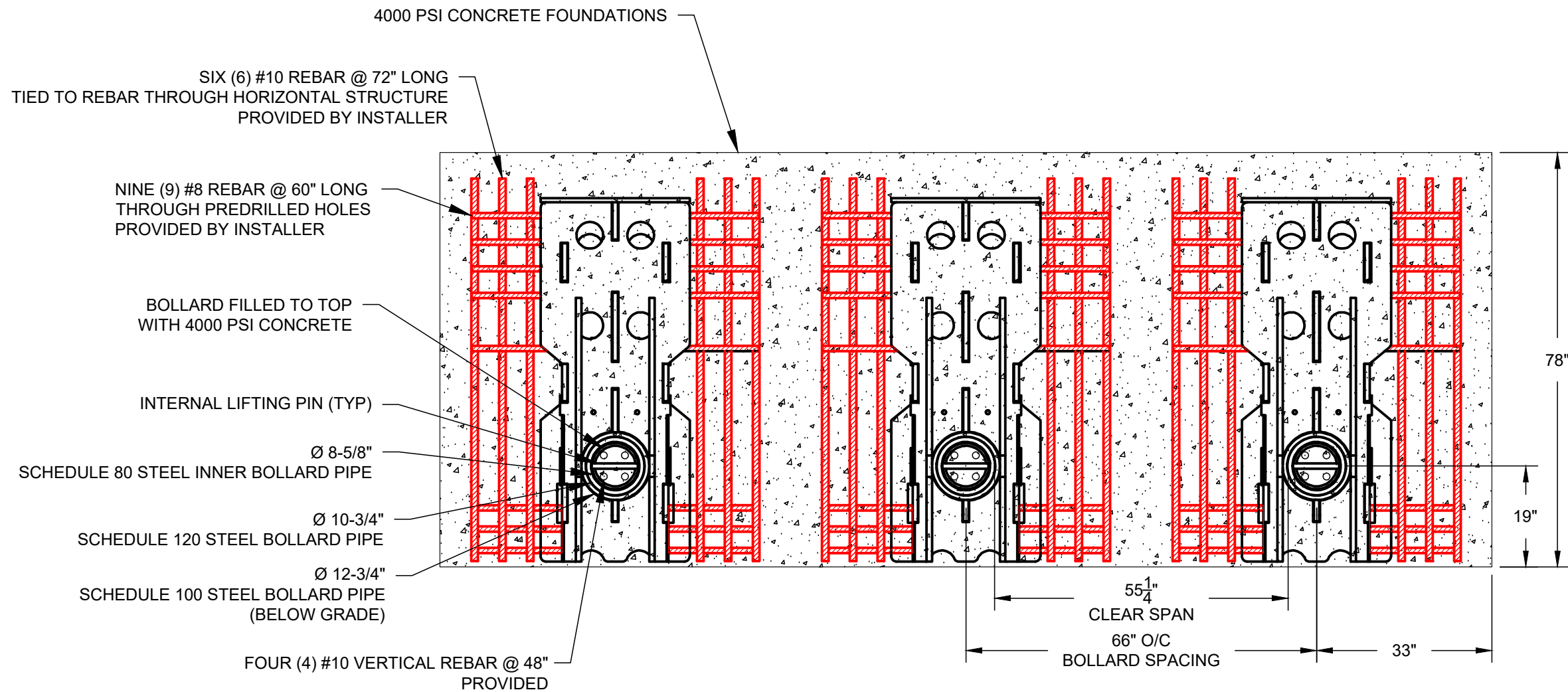
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M50 SHALLOW MOUNT ARRAY

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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SHEET: 3 OF 6

20250528-10-M

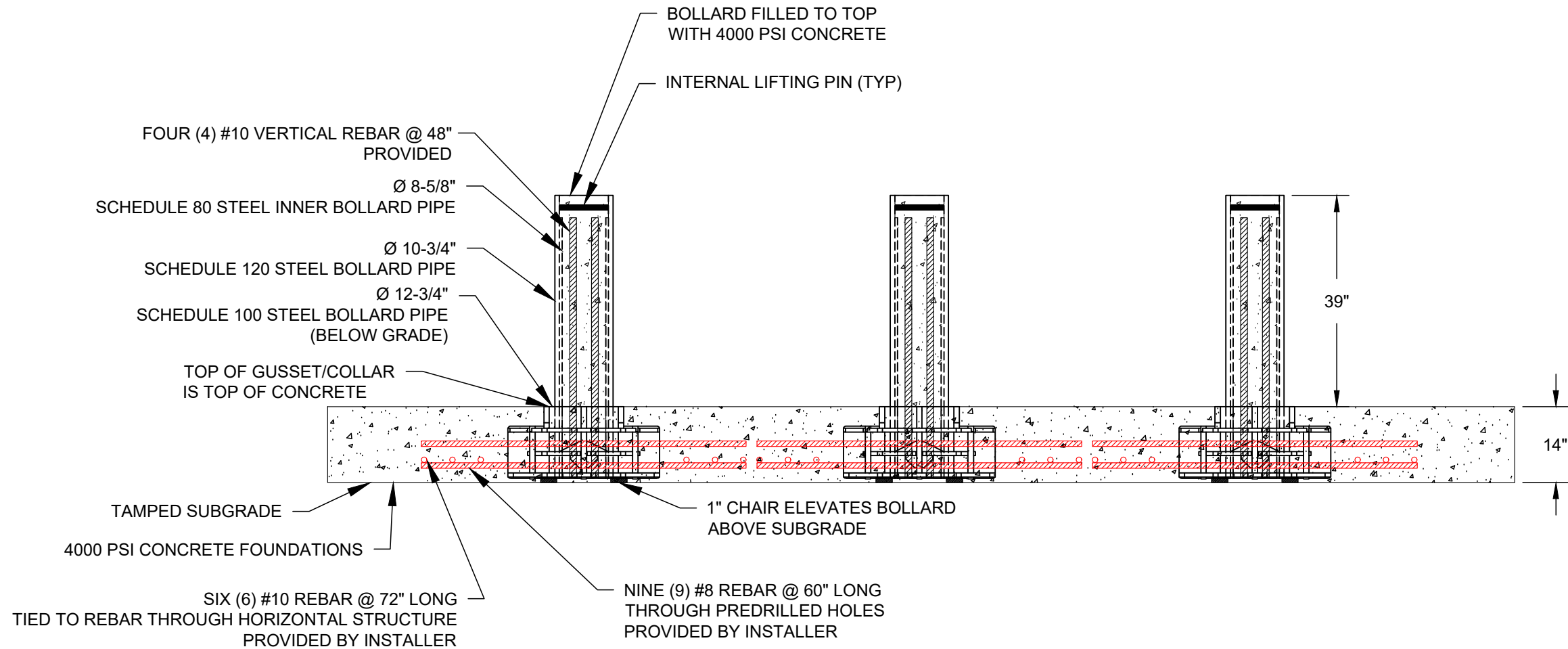
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M50 SHALLOW MOUNT ARRAY

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)

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SUBMITTAL DRAWING

SHEET: 4 OF 6

20250528-10-M

SCALE: N.T.S.

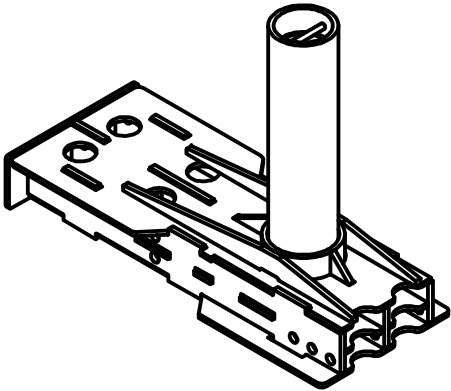
M50 SHALLOW MOUNT

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

STANDARD FINISH:
GLOSS BLACK PAINT



ONE (1) EACH
PREFABRICATED
BOLLARD UNIT



PRE-CUT #10 REBAR
@ 48" LONG
QTY: FOUR (4) PER BOLLARD
(INSIDE BOLLARD)

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



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MATERIALS
PROVIDED

SMB-1200-SA
SUBMITTAL DRAWING

SHEET: 5 OF 6

20250528-10-M

SCALE: N.T.S.

M50 SHALLOW MOUNT ARRAY

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.

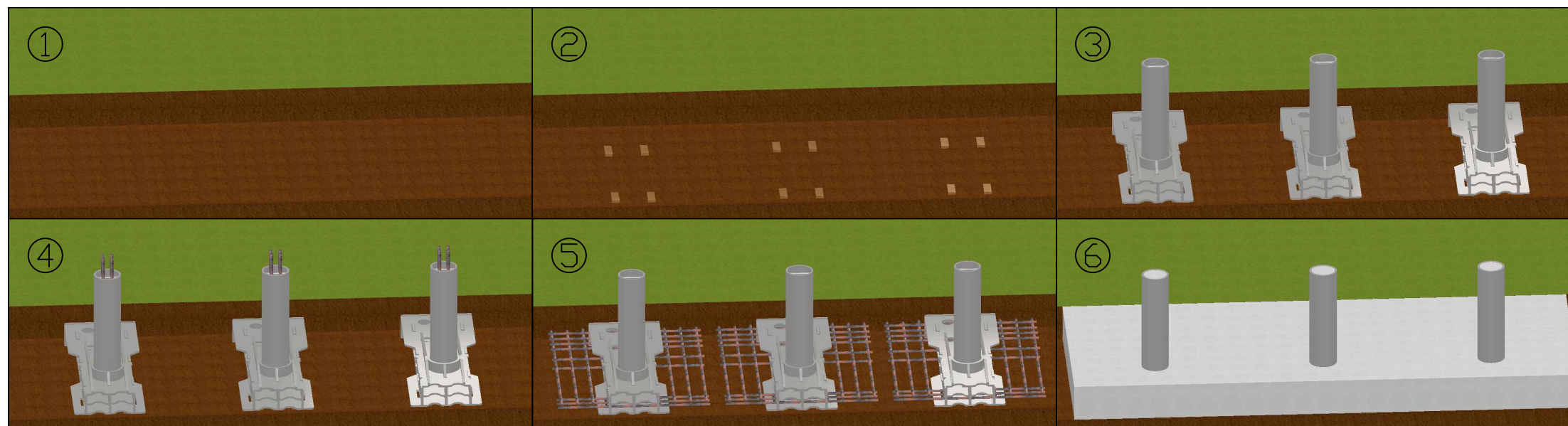
② USE MASONRY BLOCK OR CHAIRS TO ELEVATE BOLLARD OFF SUBGRADE, SO THAT TOP OF GUSSET / SLEEVE IS SAME HEIGHT AS TOP OF CONCRETE.

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

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SHEET: 6 OF 6

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SCALE: N.T.S.