

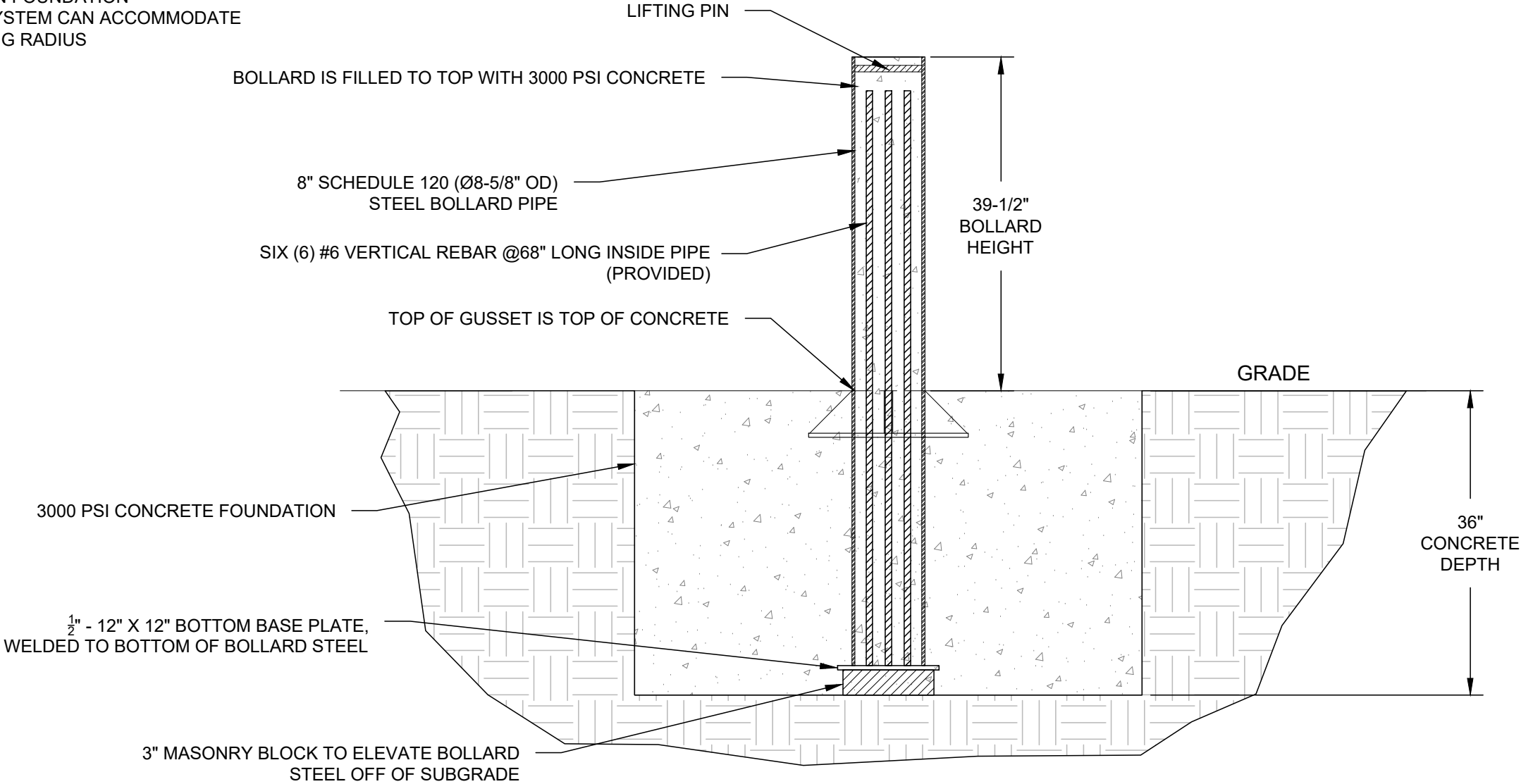
M30 STANDALONE

SET & POUR BOLLARD - MODEL SPB-400

CRASH TESTED TO ASTM F2656-07 - M30/P1 RATED - STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT

TYPICAL SINGLE BOLLARD INSTALLATION

- KEY FEATURES:
- 1. PREFABRICATED BOLLARD UNIT
 - 2. NO REBAR IN FOUNDATION
 - 3. BOLLARD SYSTEM CAN ACCOMMODATE ANY TURNING RADIUS



NOTE:
TOTAL QUANTITY OF BOLLARDS PROVIDED TO BE
DEFINED ON PURCHASE ORDER.



IDEAL SHIELD
2525 CLARK ST.
DETROIT, MI. 48209
(866)825-8659 www.idealshield.com
info@idealshield.com

PATENT PROTECTED

ELEVATION VIEW
(STAND-ALONE)

SPB-400
WEBSITE DRAWING

SHEET: 1 OF 6

20250228-10-M

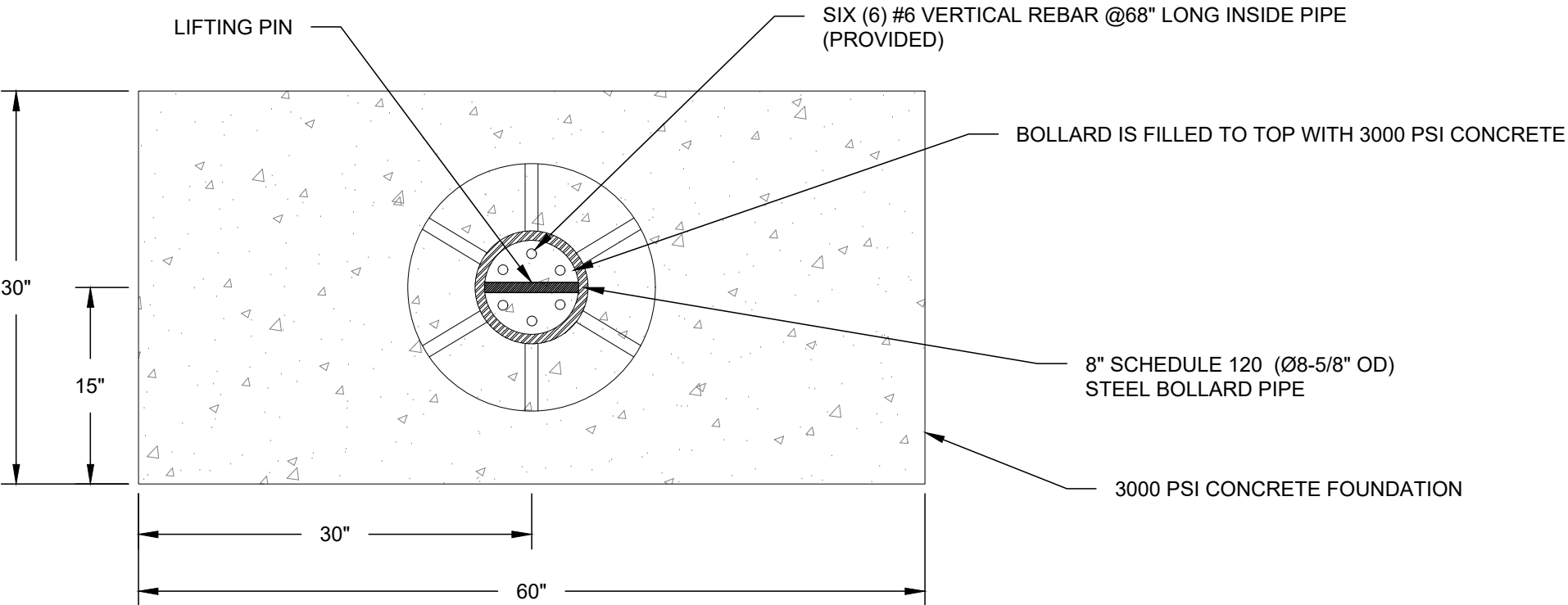
SCALE: N.T.S.

M30 STANDALONE

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TYPICAL SINGLE BOLLARD INSTALLATION



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PLAN VIEW
(STAND-ALONE)

SPB-400
WEBSITE DRAWING

SHEET: 2 OF 6

20250228-10-M

SCALE: N.T.S.

M30 ARRAY

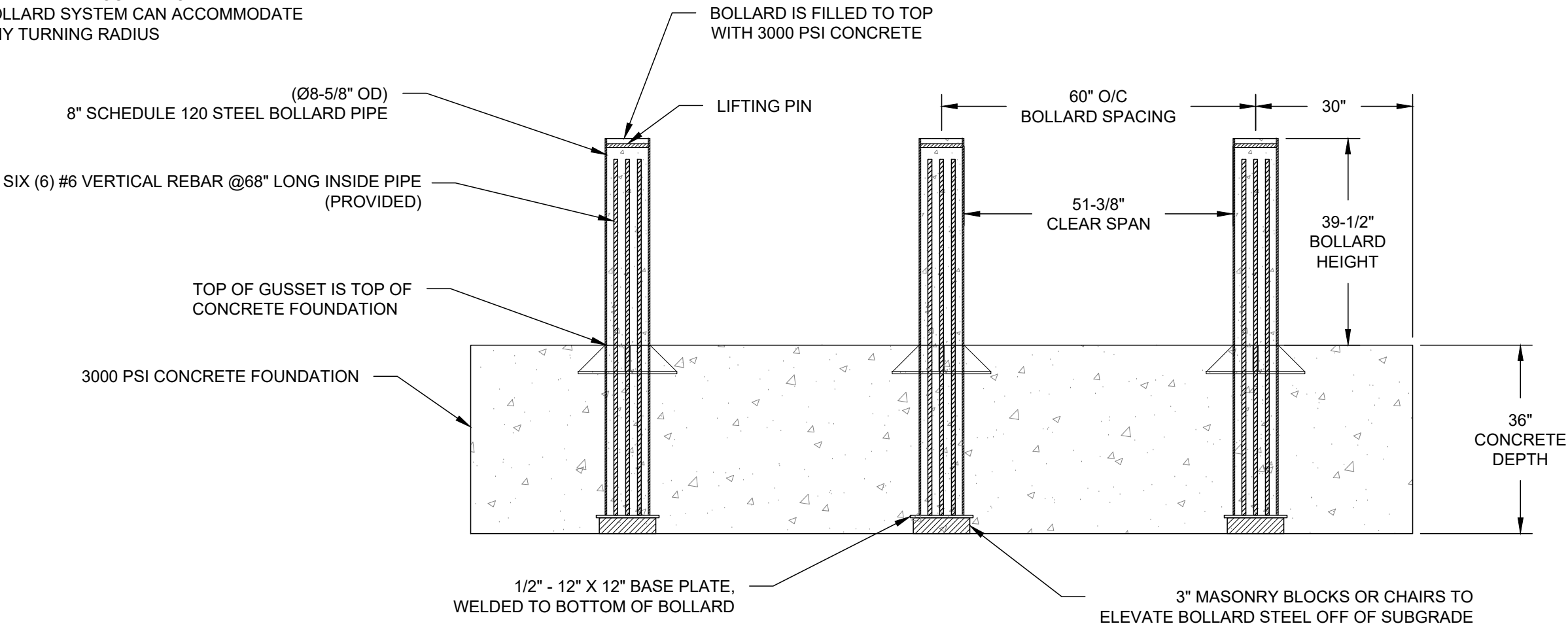
SET & POUR BOLLARD - MODEL SPB-400

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TYPICAL BOLLARD ARRAY INSTALLATION

KEY FEATURES:

1. PREFABRICATED BOLLARD UNIT
2. NO REBAR IN FOUNDATION
3. BOLLARD SYSTEM CAN ACCOMMODATE ANY TURNING RADIUS



NOTE:

1. MODIFIED SPACING FOR SITE SPECIFIC CONDITIONS AVAILABLE.



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ELEVATION VIEW
(ARRAY)

SPB-400
WEBSITE DRAWING

SHEET: 3 OF 6

20250228-10-M

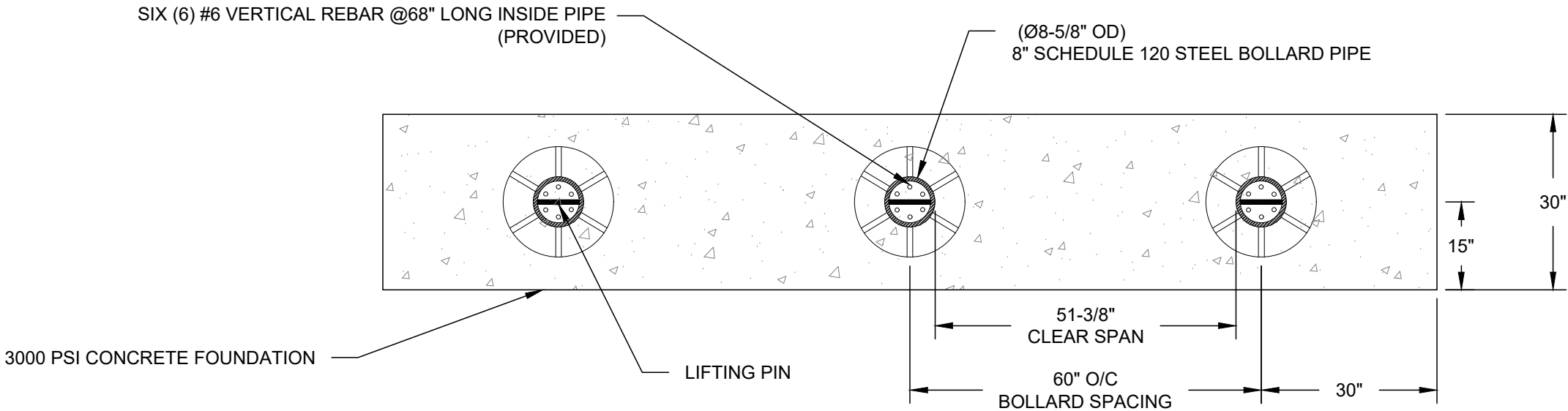
SCALE: N.T.S.

M30 ARRAY

SET & POUR BOLLARD - MODEL SPB-400

CRASH TESTED TO ASTM F2656-07 - M30/P1 RATED - STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT

TYPICAL BOLLARD ARRAY INSTALLATION



NOTE:
1. MODIFIED SPACING FOR SITE SPECIFIC CONDITIONS AVAILABLE.



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PLAN VIEW
(ARRAY)

SPB-400
WEBSITE DRAWING

SHEET: 4 OF 6

20250228-10-M

SCALE: N.T.S.

M30 STANDALONE

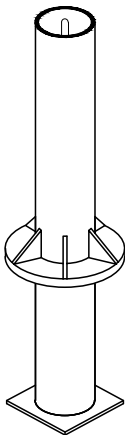
SET & POUR BOLLARD - MODEL SPB-400

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MATERIALS PROVIDED

STANDARD FINISH:
GLOSS BLACK PAINT

PREFABRICATED BOLLARD MATERIALS PROVIDED



(QTY 1) EACH:
BOLLARD ASSEMBLY



(QTY 6) EACH:
PRE-CUT #6 VERTICAL REBAR
@ 68" LONG
(PLACED INSIDE BOLLARD)

MATERIALS PROVIDED BY INSTALLER

- 1. CONCRETE, ABOUT 1.5 CUBIC YARDS PER BOLLARD
- 2. MASONRY BLOCKS OR CHAIRS TO ELEVATE BOLLARDS OFF OF SUBGRADE



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PATENT PROTECTED

MATERIALS
PROVIDED

SPB-400
WEBSITE DRAWING

SHEET: 5 OF 6

20250228-10-M

SCALE: N.T.S.

M30 ARRAY

SET & POUR BOLLARD - MODEL SPB-400

CRASH TESTED TO ASTM F2656-07 - M30/P1 RATED - STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT

INSTALLATION STEPS

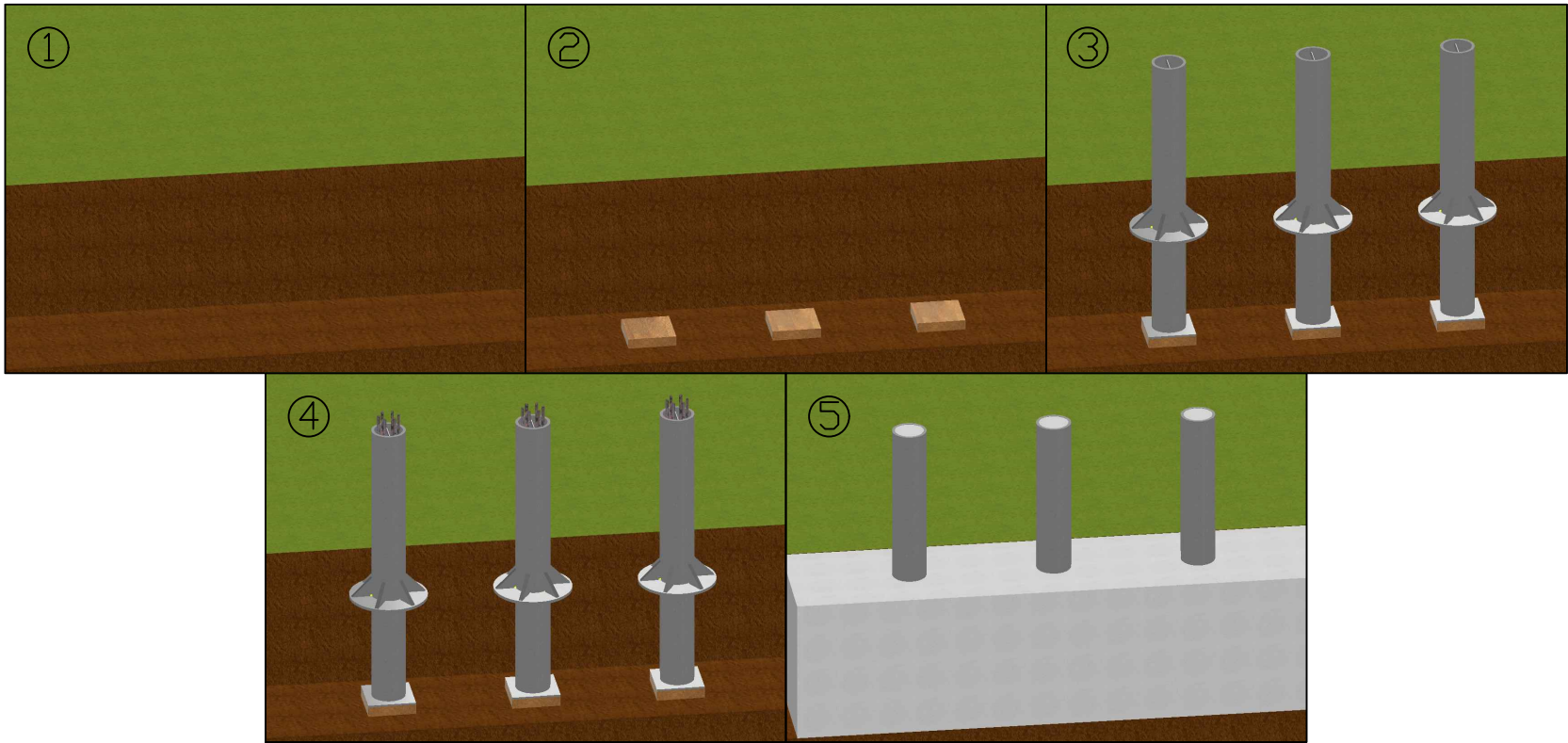
① EXCAVATE THEN TAMP SUBGRADE WITH PLATE TAMPER.

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 VERTICAL REBAR INTO BOLLARD TUBE.

⑤ FILL BOLLARD TUBE AND EXCAVATION WITH CONCRETE.



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INSTALLATION STEPS

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SHEET: 6 OF 6

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SCALE: N.T.S.