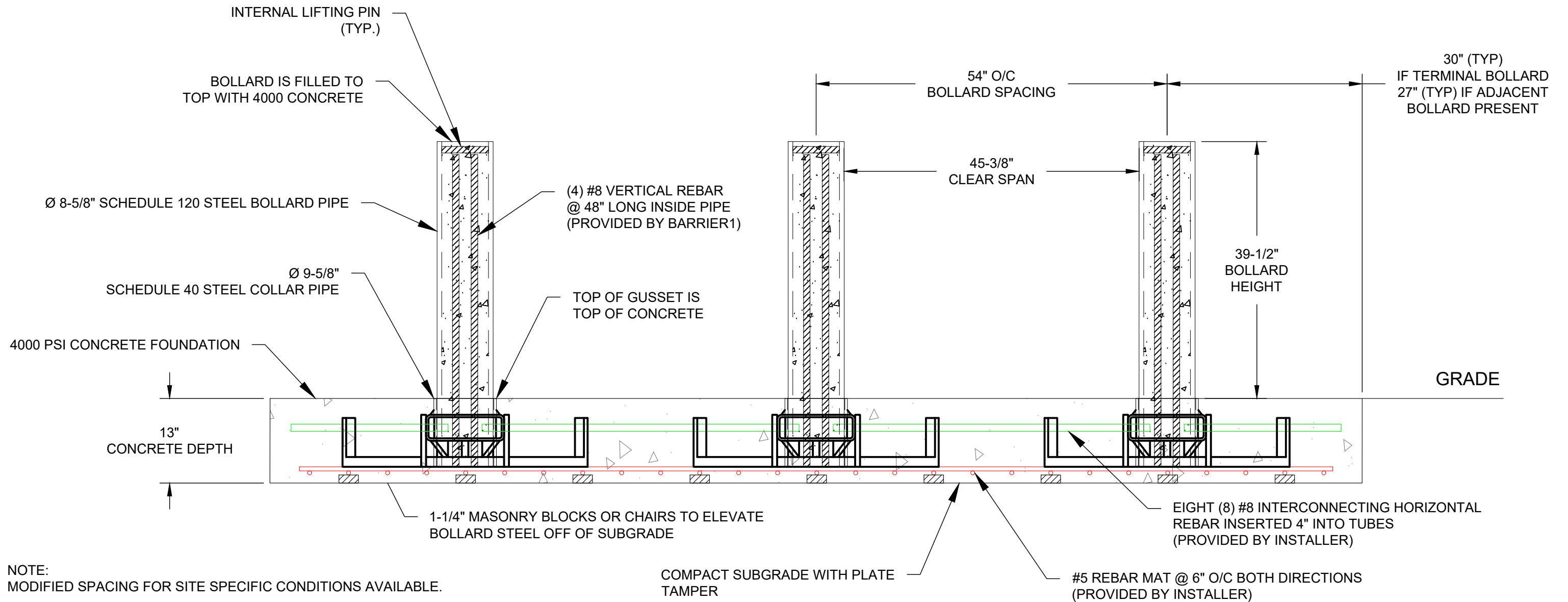


B1 HORNET M40

SHALLOW MOUNT BOLLARD - MODEL SMB-800 (FIXED)

CRASH TESTED TO ASTM F2656-07 - M40/P1 RATED - STOPS 15,000 LB. VEHICLE AT 40 MPH IMPACT

TYPICAL BOLLARD ARRAY INSTALLATION



BARRIER1 SYSTEMS, LLC

8015 THORNDIKE ROAD
GREENSBORO, NC 27409
(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.

ELEVATION VIEW

SMB-800
SUBMITTAL DRAWING

SHEET: 1 OF 4

20230227-10-M

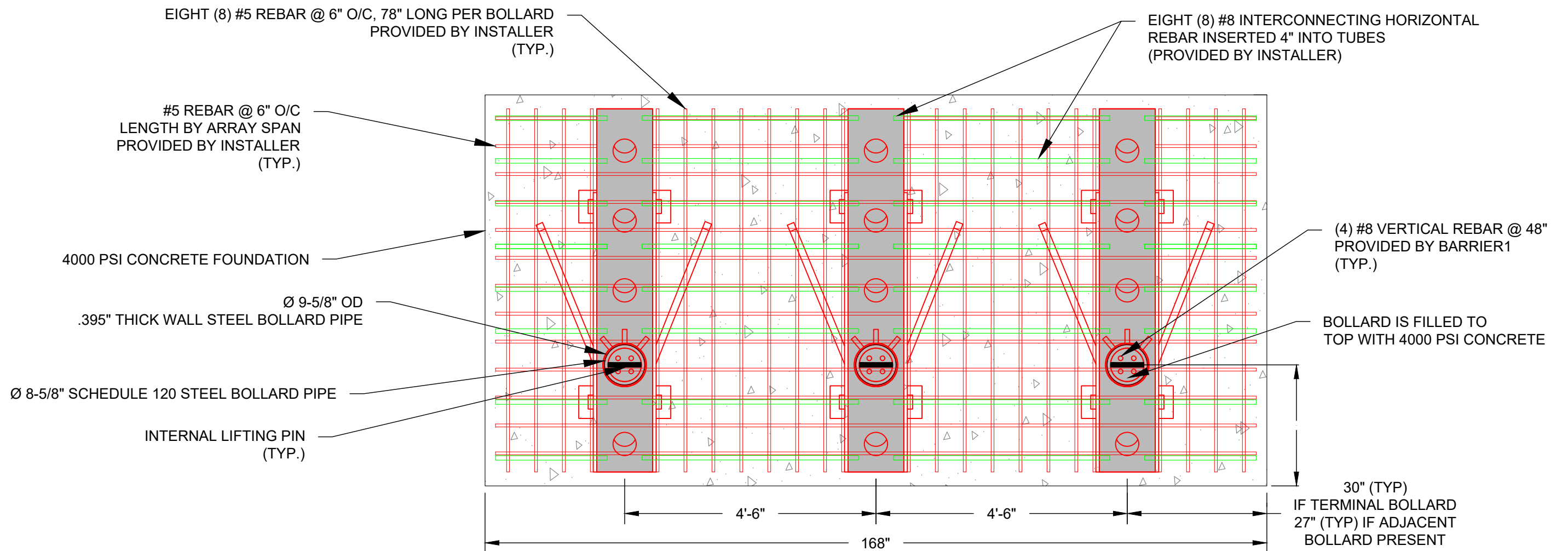
SCALE: N.T.S.

B1 HORNET M40

SHALLOW MOUNT BOLLARD - MODEL SMB-800 (FIXED)

CRASH TESTED TO ASTM F2656-07 - M40/P1 RATED - STOPS 15,000 LB. VEHICLE AT 40 MPH IMPACT

TYPICAL BOLLARD ARRAY INSTALLATION



NOTE:
MODIFIED SPACING FOR SITE SPECIFIC CONDITIONS AVAILABLE.



BARRIER1 SYSTEMS, LLC

8015 THORNDIKE ROAD
GREENSBORO, NC 27409
(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

SMB-800
SUBMITTAL DRAWING

SHEET: 2 OF 4

20230227-10-M

SCALE: N.T.S.

B1 HORNET M40

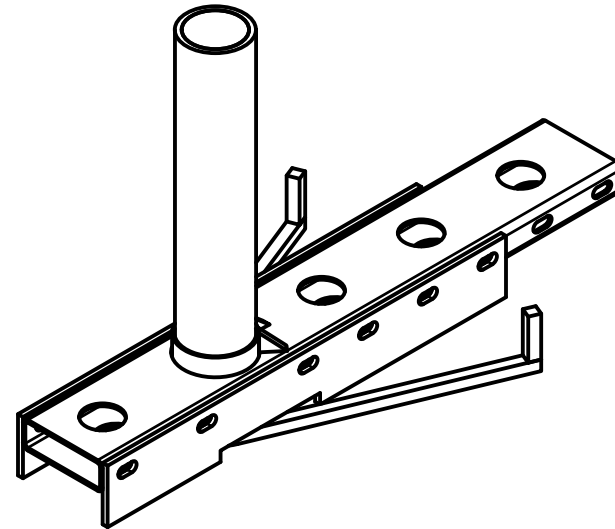
SHALLOW MOUNT BOLLARD - MODEL SMB-800 (FIXED)

CRASH TESTED TO ASTM F2656-07 - M40/P1 RATED - STOPS 15,000 LB. VEHICLE AT 40 MPH IMPACT

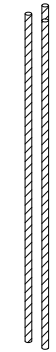
MATERIALS PROVIDED

STANDARD FINISH:
GLOSS BLACK PAINT

MATERIALS PROVIDED BY BARRIER1 SYSTEMS



(1) EACH:
PREFABRICATED BOLLARD
WITH BASE STRUCTURE (PRE-ASSEMBLED)



(4) EACH:
#8 VERTICAL REBAR
@ 48"

MATERIALS PROVIDED BY INSTALLATION CONTRACTOR:

1. ABOUT 1.25 CUBIC YARDS OF CONCRETE PER BOLLARD
2. #8 INTERCONNECTING REBAR THROUGH PREDRILLED HOLES IN BOLLARD
3. #5 HORIZONTAL REBAR @ 6" O/C BOTH DIRECTIONS
4. MASONRY BRICKS OR CHAIRS TO ELEVATE BOLLARD STEEL OFF SUBGRADE



BARRIER1 SYSTEMS, LLC

8015 THORNDIKE ROAD
GREENSBORO, NC 27409
(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-800
SUBMITTAL DRAWING

SHEET: 3 OF 4

20230227-10-M

SCALE: N.T.S.

B1 HORNET M40

SHALLOW MOUNT BOLLARD - MODEL SMB-800 (FIXED)

CRASH TESTED TO ASTM F2656-07 - M40/P1 RATED - STOPS 15,000 LB. VEHICLE AT 40 MPH IMPACT

INSTALLATION STEPS

① EXCAVATE THEN TAMP SUBGRADE WITH PLATE TAMPER.

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

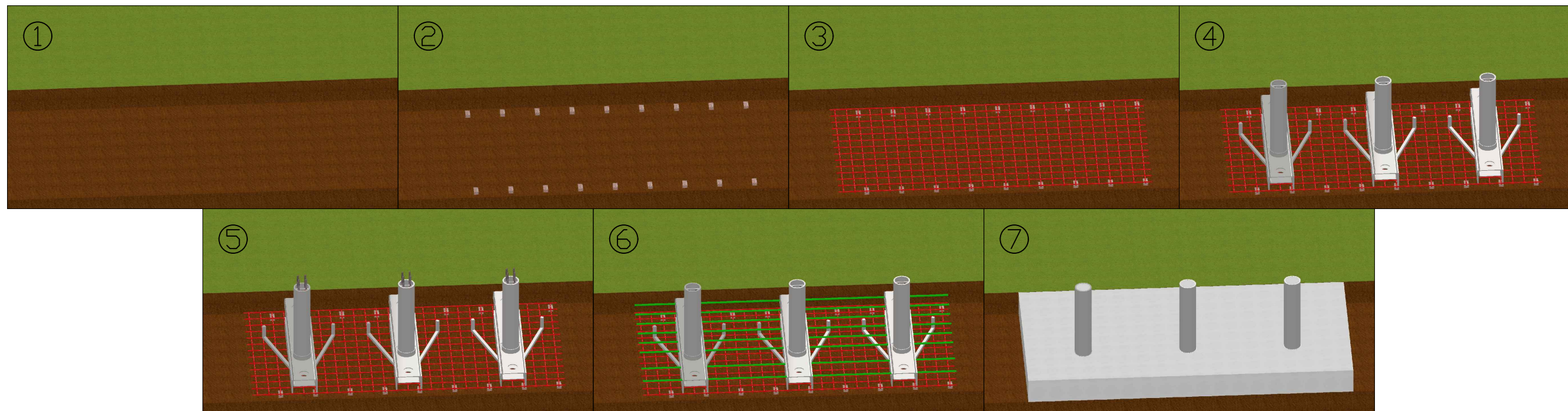
③ PLACE #5 REBAR MAT INTO EXCAVATION AT 6" O/C BOTH DIRECTIONS.

④ PLACE PREFABRICATED BOLLARD IN EXCAVATION ON #5 REBAR MAT.

⑤ INSERT #8 INTERCONNECTING REBAR 4" INTO BOLLARD FRAME TUBE.

⑥ INSERT #8 VERTICAL REBAR INTO BOLLARD PIPE.

⑦ FILL BOLLARD TUBE AND FOUNDATION WITH CONCRETE.



BARRIER1 SYSTEMS, LLC

8015 THORNDIKE ROAD
GREENSBORO, NC 27409
(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 STEPS

SMB-800
SUBMITTAL DRAWING

SHEET: 4 OF 4

20230227-10-M

SCALE: N.T.S.