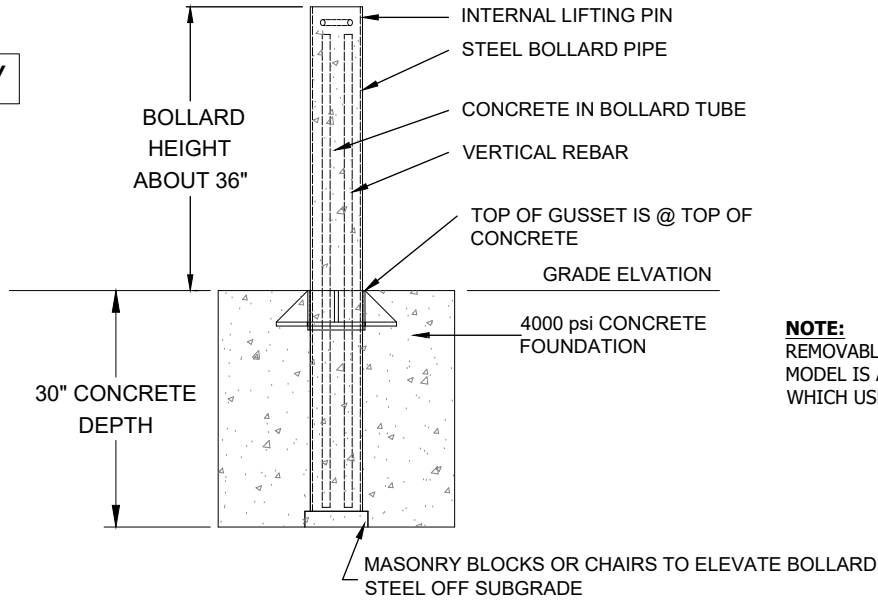


TRAFFIC IMPACT BOLLARD (MODEL TIB-67-SA)
SINGLE STAND ALONE, UNRESTRICTED SPACING, SET AND POUR FEATURE

ASTM F2656 C40, P1 (CRASH TESTED PROTOCOL) STOPS 2340 lbs PASSENGER CAR AT 40 mph AND EQUIVALENT IMPACTS

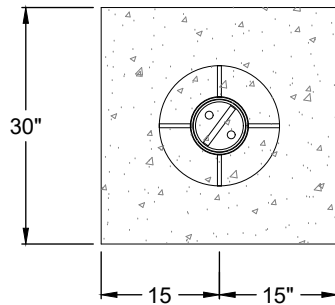
**SINGLE STAND ALONE BOLLARD
INSTALLATION**

FRONT VIEW



NOTE:
REMOVABLE BOLLARD
MODEL IS AVAILABLE
WHICH USES THE SAME COMPONENTS.

TOP VIEW



KEY CAPABILITIES:

1. UNRESTRICTED SPACING BETWEEN BOLLARDS
2. EASY AND QUICK INSTALLATION; EXCAVATE SET BOLLARD AND POUR CONCRETE
3. NO FIELD WELDING, BOLTING OR ASSEMBLY. BOLLARD IS DELIVERED PREFABRICATED AS 1 UNIT
4. SYMMETRICAL BOLLARD DESIGN, IMPACT FROM ANY ANGLE TO BOLLARD PROVIDES THE SAME STOPPING CAPABILITY



BARRIER1 SYSTEMS, INC.
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DETAILS
 ASTM F2656 C40 PROTOCOL
 SET & POUR BOLLARD

DRAWINGS

SHEET: 1 OF 5
 20190703-01-PD
 SCALE: N.T.S.

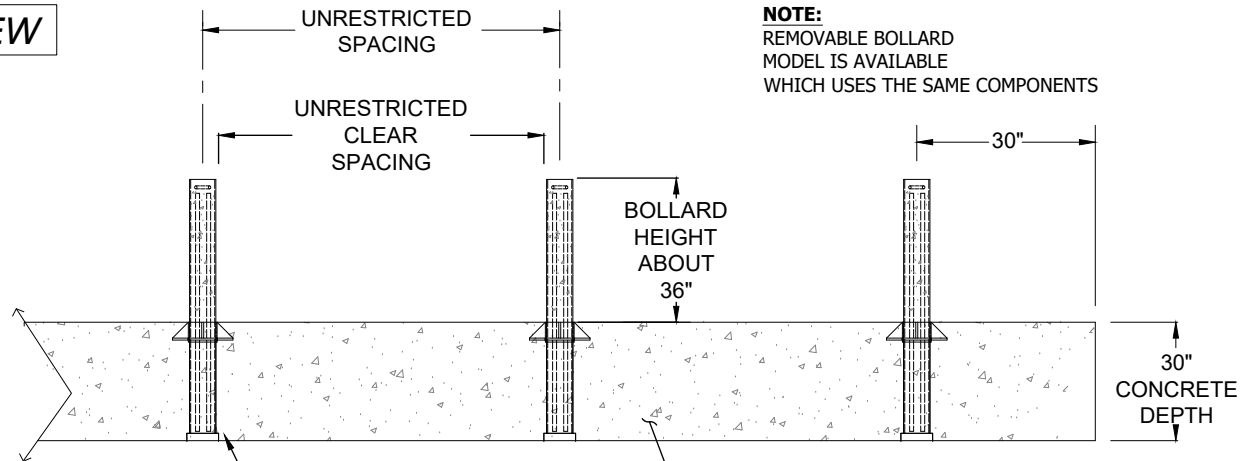
TRAFFIC IMPACT BOLLARD (MODEL TIB-67-SA)

SINGLE STAND ALONE, UNRESTRICTED SPACING, SET AND POUR FEATURE

ASTM F2656 C40, P1 (CRASH TESTED PROTOCOL) STOPS 2340 lbs PASSENGER CAR AT 40 mph AND EQUIVALENT IMPACTS

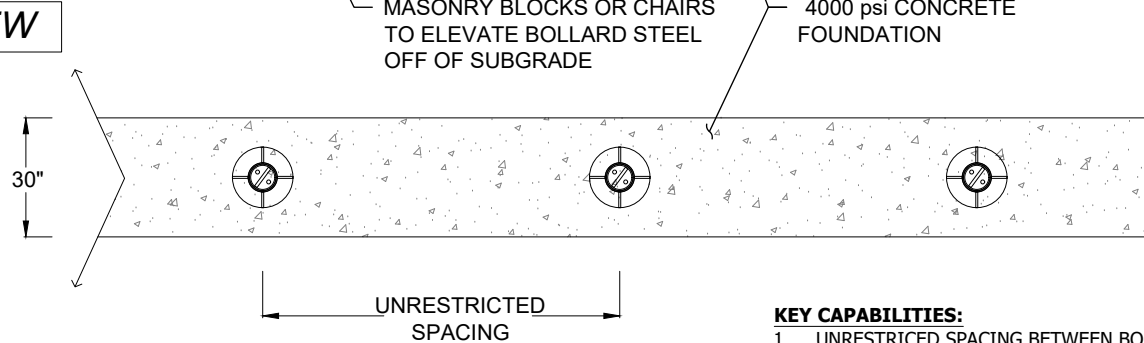
TYPICAL BOLLARD ARRAY INSTALLATION

FRONT VIEW



NOTE:
REMOVABLE BOLLARD
MODEL IS AVAILABLE
WHICH USES THE SAME COMPONENTS

TOP VIEW



MASONRY BLOCKS OR CHAIRS
TO ELEVATE BOLLARD STEEL
OFF OF SUBGRADE

4000 psi CONCRETE
FOUNDATION

KEY CAPABILITIES:

1. UNRESTRICTED SPACING BETWEEN BOLLARDS
2. EASY AND QUICK INSTALLATION; EXCAVATE SET BOLLARD AND POUR CONCRETE
3. NO FIELD WELDING, BOLTING OR ASSEMBLY. BOLLARD IS DELIVERED PREFABRICATED AS 1 UNIT
4. SYMMETRICAL BOLLARD DESIGN, IMPACT FROM ANY ANGLE TO BOLLARD PROVIDES THE SAME STOPPING CAPABILITY



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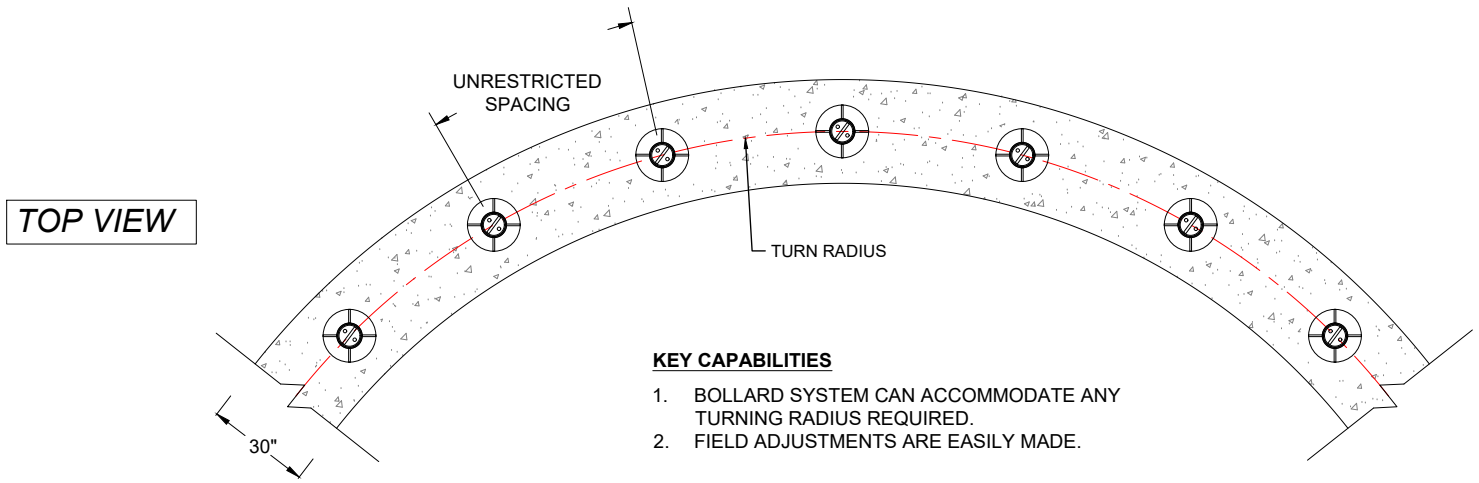
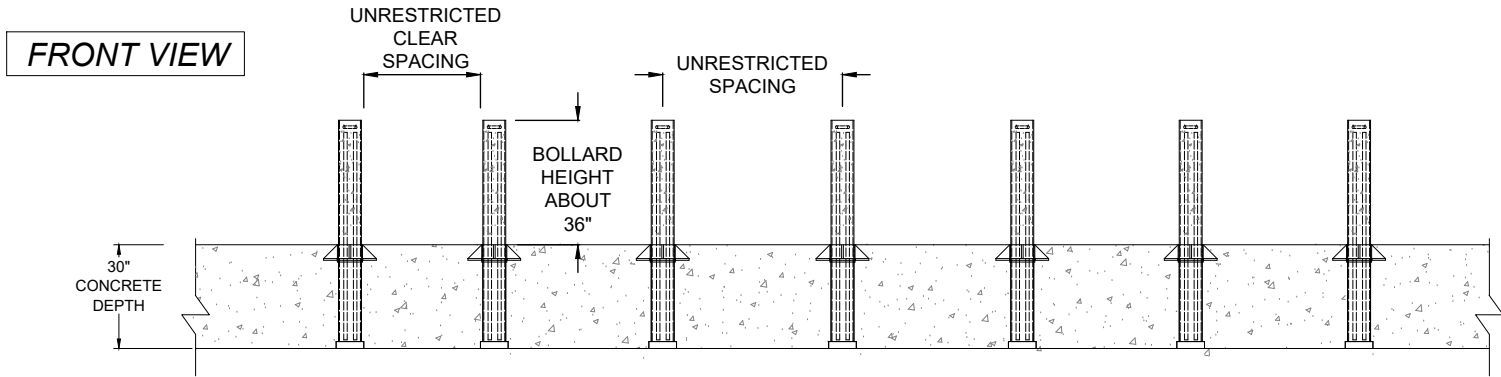
TYPICAL ARRAY
ASTM F2656 C40 PROTOCOL
SET & POUR BOLLARD

DRAWINGS

SHEET: 2 OF 5
20190703-01-PD
SCALE: N.T.S.

TRAFFIC IMPACT BOLLARD (MODEL TIB-67-SA)
SINGLE STAND ALONE, UNRESTRICTED SPACING, SET AND POUR FEATURE
 ASTM F2656 C40, P1 (CRASH TESTED PROTOCOL) STOPS 2340 lbs PASSENGER CAR AT 40 mph AND EQUIVALENT IMPACTS

BOLLARD INSTALLATION WITH TURN



KEY CAPABILITIES

1. BOLLARD SYSTEM CAN ACCOMMODATE ANY TURNING RADIUS REQUIRED.
2. FIELD ADJUSTMENTS ARE EASILY MADE.



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**ARRAY ON CURVE
 ASTM F2656 C40 PROTOCOL
 SET & POUR BOLLARD**

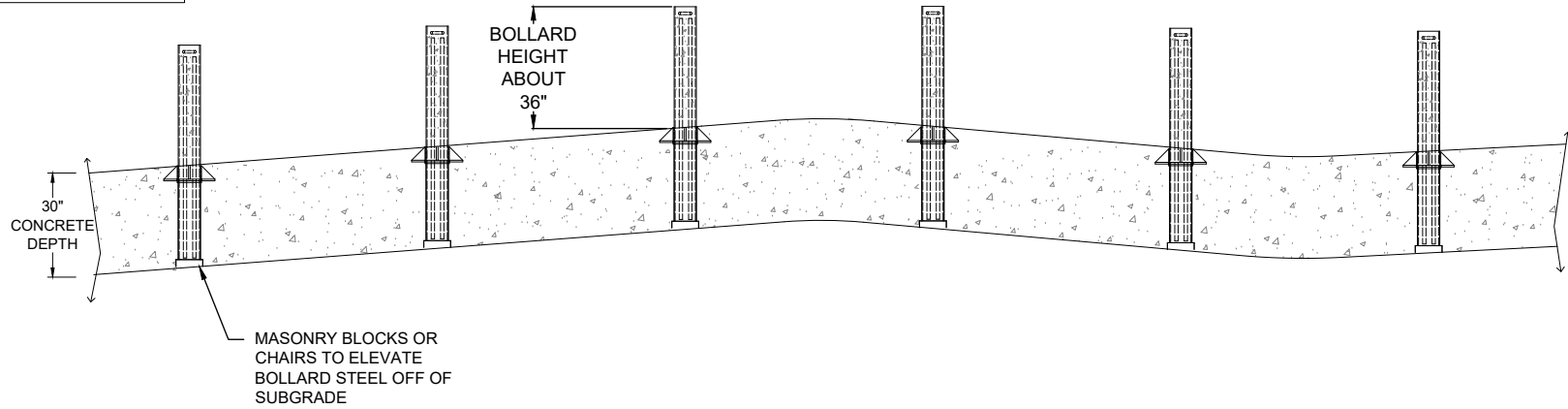
DRAWINGS

SHEET: 3 OF 5
 20190703-01-PD
 SCALE: N.T.S.

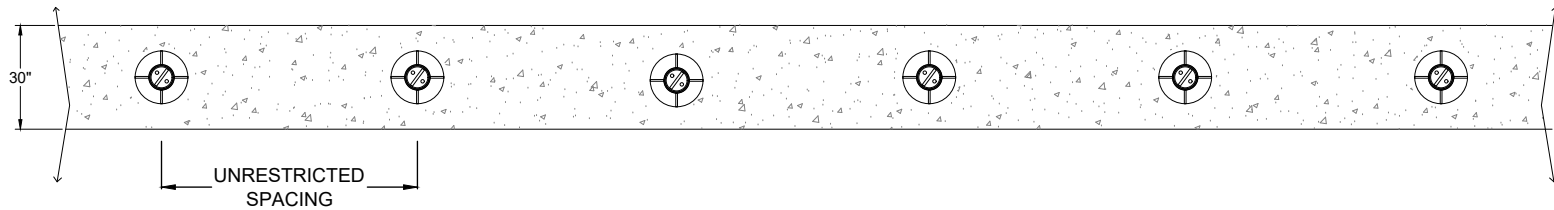
TRAFFIC IMPACT BOLLARD (MODEL TIB-67-SA)
SINGLE STAND ALONE, UNRESTRICTED SPACING, SET AND POUR FEATURE
 ASTM F2656 C40, P1 (CRASH TESTED PROTOCOL) STOPS 2340 lbs PASSENGER CAR AT 40 mph AND EQUIVALENT IMPACTS

BOLLARD INSTALLATION ACROSS GRADE CHANGES

FRONT VIEW



TOP VIEW



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ARRAY ON SLOPE
 ASTM F2656 C40 PROTOCOL
 SET & POUR BOLLARD

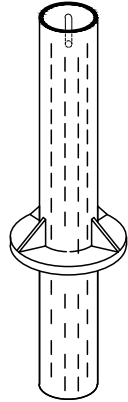
DRAWINGS

SHEET: 4 OF 5
 20190703-01-PD
 SCALE: N.T.S.

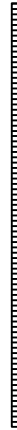
**TRAFFIC IMPACT BOLLARD (MODEL TIB-67-SA)
SINGLE STAND ALONE, UNRESTRICTED SPACING, SET AND POUR FEATURE**

ASTM F2656 C40, P1 (CRASH TESTED PROTOCOL) STOPS 2340 lbs PASSENGER CAR AT 40 mph AND EQUIVALENT IMPACTS

PREFABRICATED BOLLARD MATERIALS PROVIDED



(QTY 1) EACH:
BOLLARD TUBE



(QTY 2) EACH:
PRE-CUT VERTICAL REBAR
(INSIDE BOLLARD)



(QTY 1) EACH:
BOLLARD COVER
STYLE PER CUSTOMER

MATERIALS PROVIDED BY INSTALLER

1. CONCRETE, 1.5 CUBIC YARDS PER BOLLARD
2. CHAIRS TO ELEVATE BOLLARDS ABOVE SUBGRADE



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MATERIALS PROVIDED

DRAWINGS

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20190703-01-PD
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