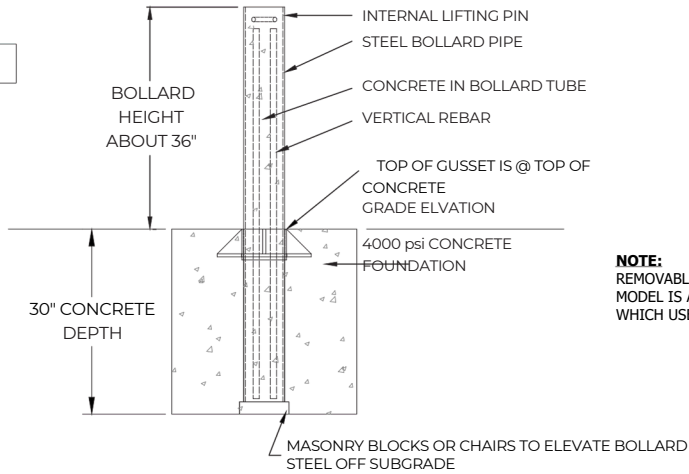


TRAFFIC IMPACT BOLLARD (MODEL TIB-67-SA)
SINGLE STAND ALONE, UNRESTRICTED SPACING, SET AND POUR FEATURE

ENGINEERED & DESIGNED FOR C40, P1 (CRASH TESTED PROTOCOL) PROPERLY INSTALLED, STOPPED 2430 lbs PASSENGER CAR AT 40MPH OR STOREFRONT EQUIVALENT ASTM F2656

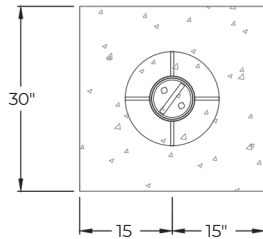
**SINGLE STAND ALONE BOLLARD
INSTALLATION**

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

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DETAILS
 ASTM F2656 C40 PROTOCOL
 SET & POUR BOLLARD

DRAWINGS

SHEET: 1 OF 5

20190603-01-PD

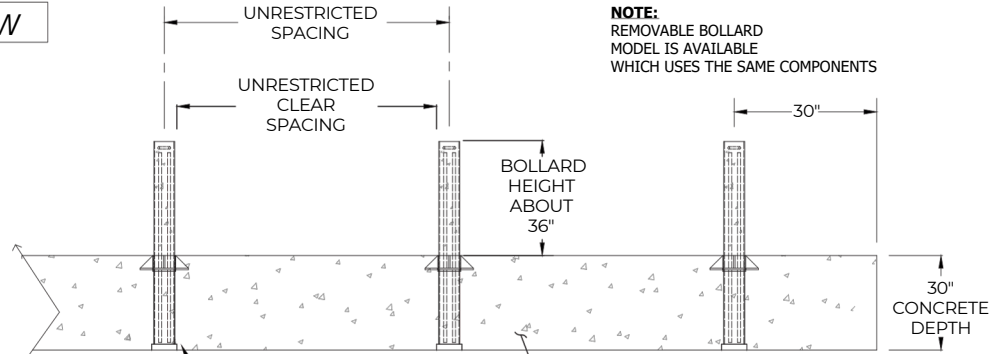
SCALE: N.T.S.

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

ENGINEERED & DESIGNED FOR C40, P1 (CRASH TESTED PROTOCOL) PROPERLY INSTALLED, STOPPED 2430 lbs PASSENGER CAR AT 40MPH OR STOREFRONT EQUIVALENT ASTM F2656

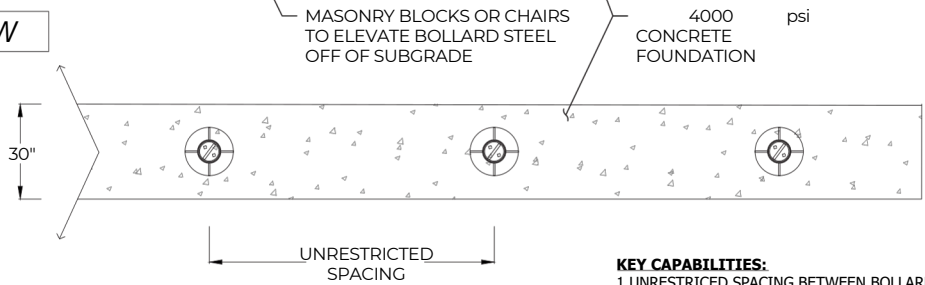
TYPICAL BOLLARD ARRAY INSTALLATION

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

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TYPICAL ARRAY
 ASTM F2656 C40 PROTOCOL
 SET & POUR BOLLARD

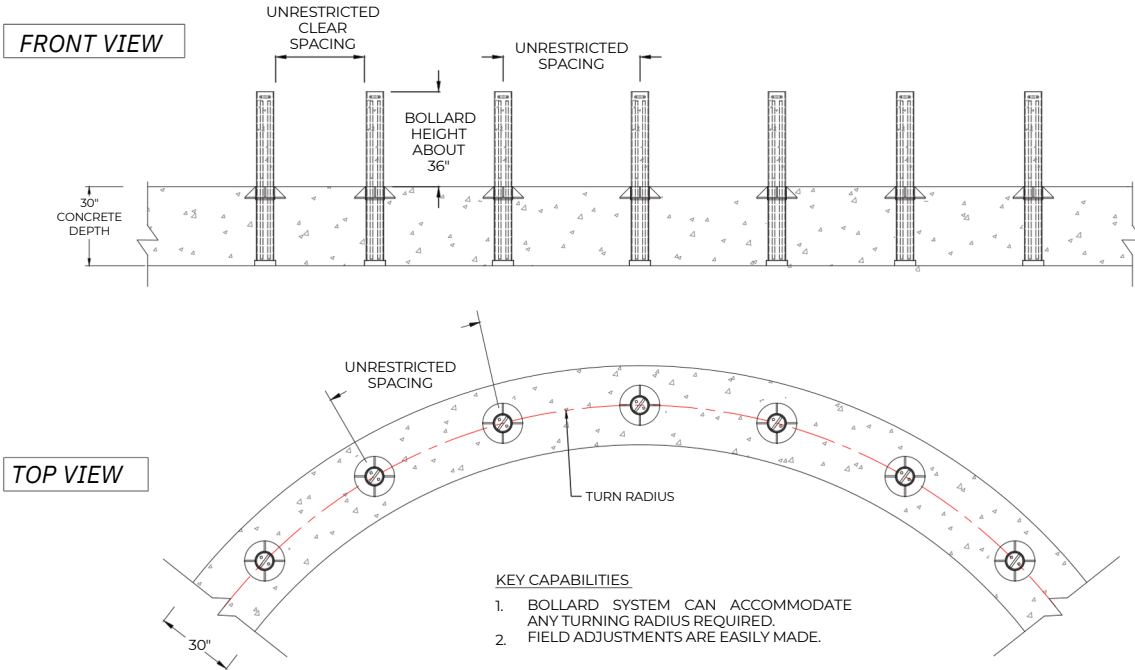
DRAWINGS

SHEET: 2 OF 5
 20190603-01-PD
 SCALE: N.T.S.

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

ENGINEERED & DESIGNED FOR C40, P1 (CRASH TESTED PROTOCOL) PROPERLY INSTALLED, STOPPED 2430 lbs PASSENGER CAR AT 40MPH OR STOREFRONT EQUIVALENT ASTM F2656

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

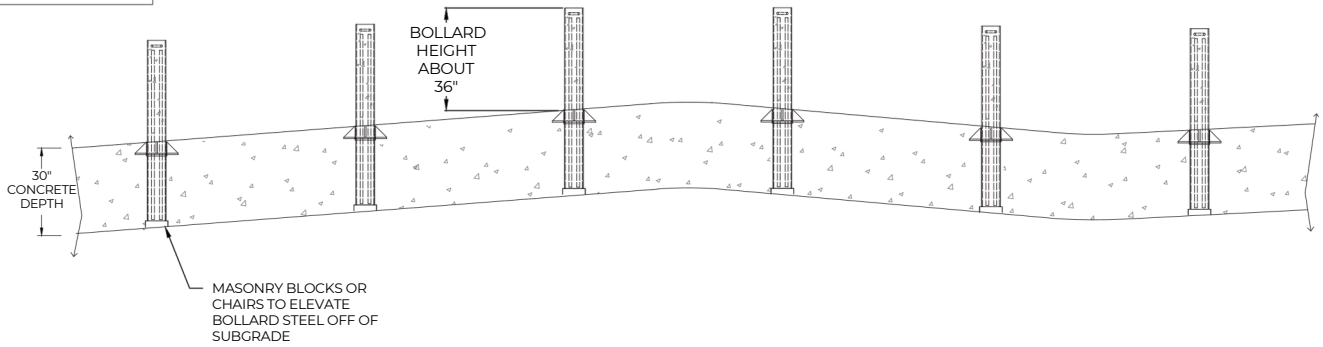
SHEET: 3 OF 5
20190603-01-PD
SCALE: N.T.S.

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

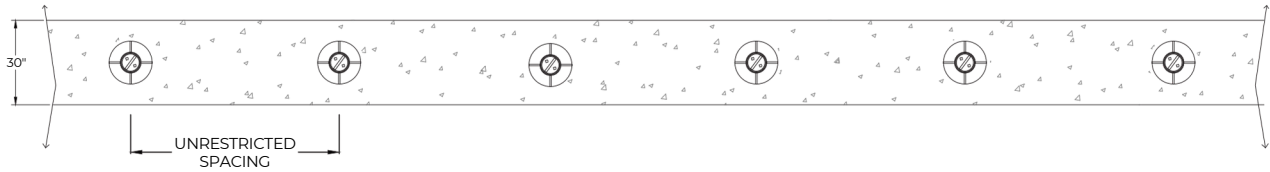
ENGINEERED & DESIGNED FOR C40, P1 (CRASH TESTED PROTOCOL) PROPERLY INSTALLED, STOPPED 2430 lbs PASSENGER CAR AT 40MPH OR STOREFRONT EQUIVALENT ASTM F2656

BOLLARD INSTALLATION ACROSS GRADE CHANGES

FRONT VIEW



TOP VIEW



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ARRAY ON SLOPE
 ASTM F2656 C40 PROTOCOL
 SET & POUR BOLLARD

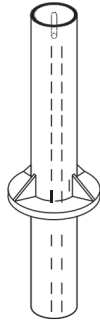
DRAWINGS

SHEET: 4 OF 5
20190603-01-PD
SCALE: N.T.S.

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

ENGINEERED & DESIGNED FOR C40, P1 (CRASH TESTED PROTOCOL) PROPERLY INSTALLED, STOPPED 2430 lbs PASSENGER CAR AT 40MPH OR STOREFRONT EQUIVALENT ASTM F2656

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

SHEET: 5 OF 5

20190603-01-PD

SCALE: N.T.S.