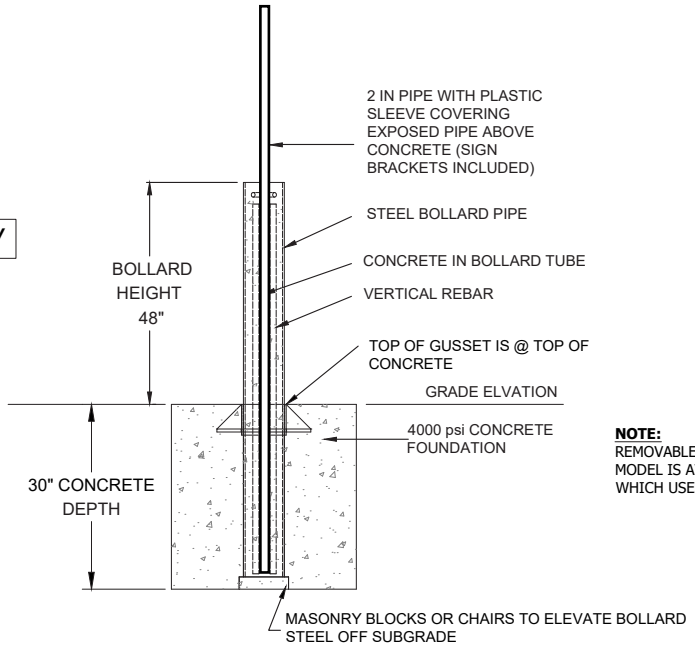
TRAFFIC IMPACT BOLLARD (MODEL TIB-67-SA)
SINGLE STAND ALONE, UNRESTRICTED SPACING, SET AND POUR FEATURE

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

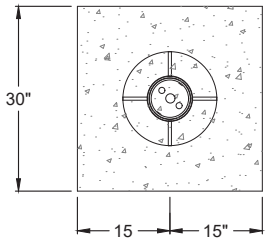
SINGLE STAND ALONE BOLLARD INSTALLATION

FRONT VIEW



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

TOP VIEW



KEY CAPABILITIES:

1. UNRESTRICED 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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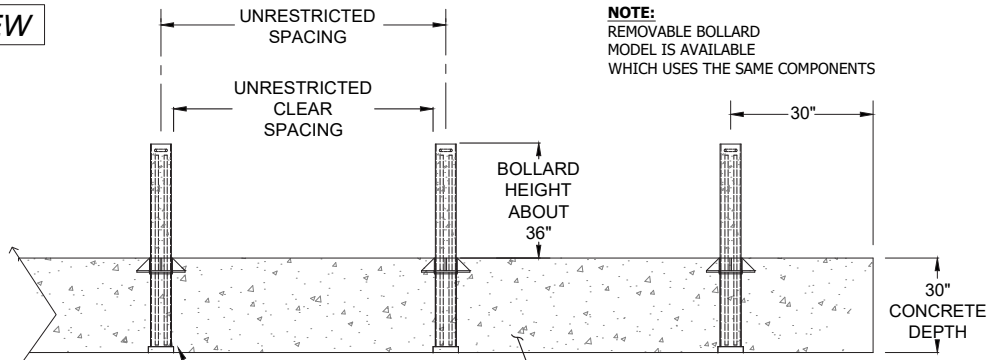
DETAILS	ASTM F2656 C40 PROTOCOL SET & POUR BOLLARD
DRAWINGS	
SHEET:	1 OF 5
	20190603-01-PD
SCALE:	N.T.S.

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

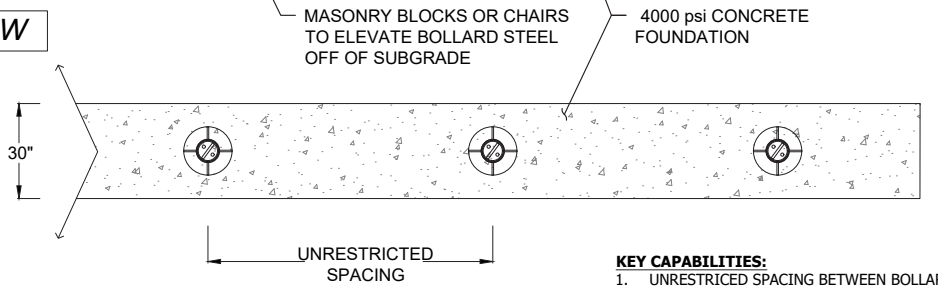
TYPICAL BOLLARD ARRAY INSTALLATION

FRONT VIEW



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

TOP VIEW



KEY CAPABILITIES:

1. UNRESTRICED 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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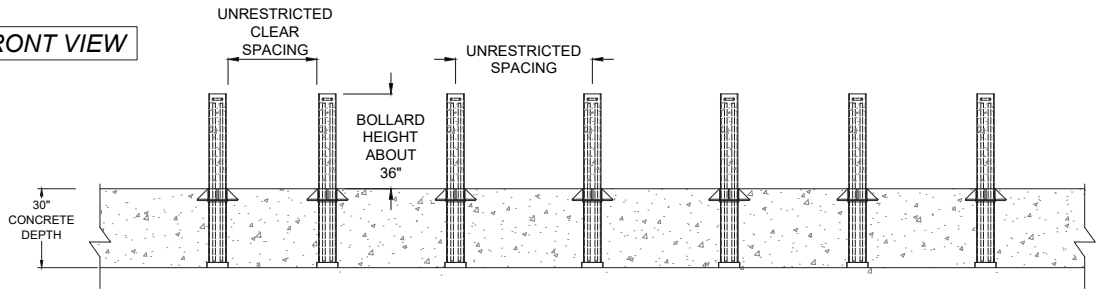
TYPICAL ARRAY ASTM F2656 C40 PROTOCOL SET & POUR BOLLARD	DRAWINGS	SHEET: 2 OF 5	
		20190603-01-PD	
		SCALE: N.T.S.	

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

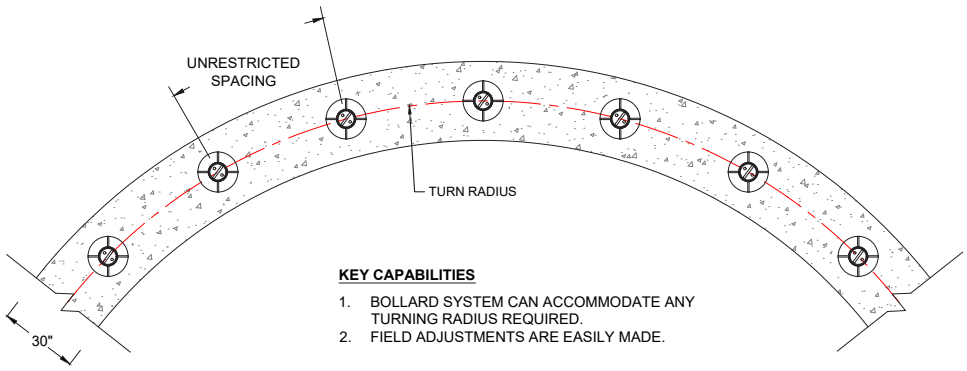
ENGINEERED & DESIGNED FOR C40, P1 (CRASH TESTED PROTOCOL) PROPERLY INSTALLED, STOPPED 2430 lbs PASSENGER CAR AT 40MPH OR STOREFRONT EQUIVALENT ASTM F2656

BOLLARD INSTALLATION WITH TURN

FRONT VIEW



TOP VIEW



KEY CAPABILITIES

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

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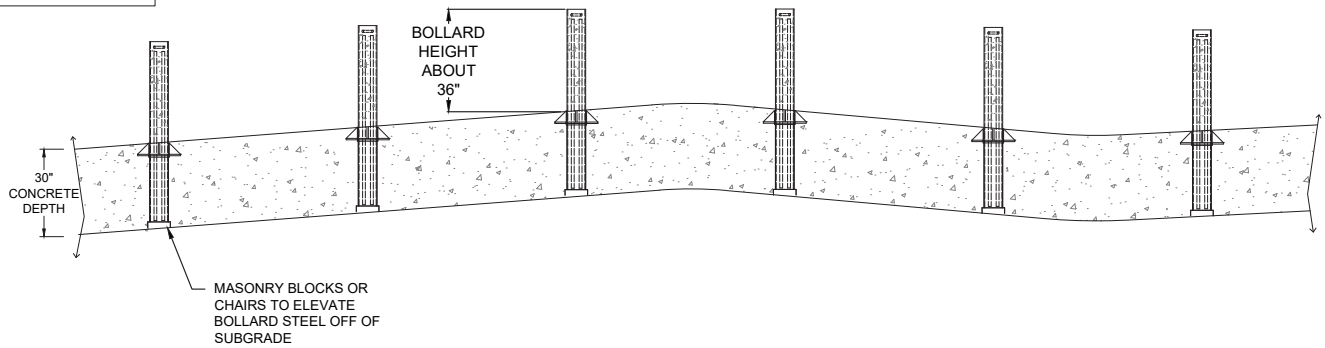
ARRAY ON CURVE ASTM F2656 C40 PROTOCOL SET & POUR BOLLARD	DRAWINGS
SHEET: 3 OF 5	
20190603-01-PD	
SCALE: N.T.S.	

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

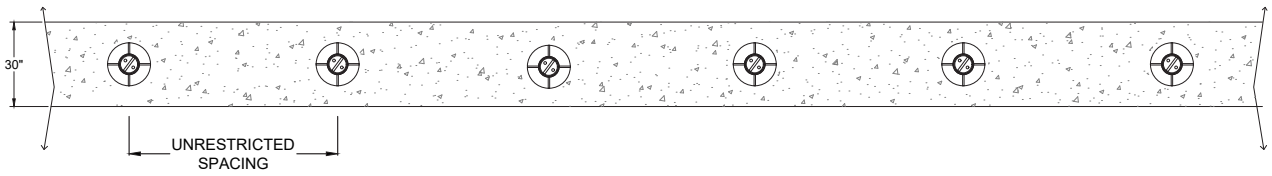
ENGINEERED & DESIGNED FOR C40, P1 (CRASH TESTED PROTOCOL) PROPERLY INSTALLED, STOPPED 2430 lbs PASSENGER CAR AT 40MPH OR STOREFRONT EQUIVALENT ASTM F2656

BOLLARD INSTALLATION ACROSS GRADE CHANGES

FRONT VIEW



TOP VIEW



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ARRAY ON SLOPE
ASTM F2656 C40 PROTOCOL
SET & POUR BOLLARD

DRAWINGS

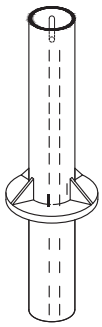
20190603-01-PD

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.