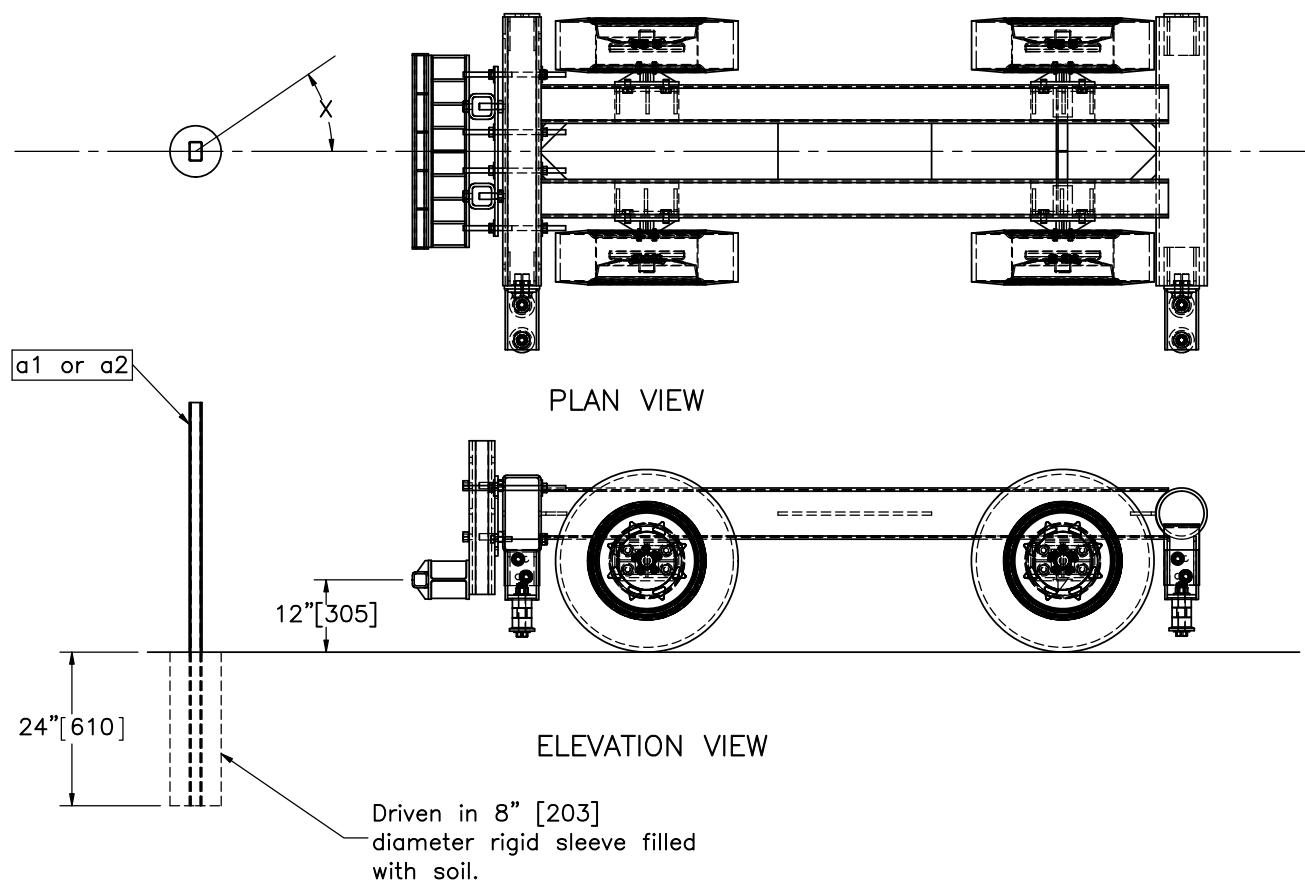


Test No.	Part No.	Post Type	Bogie No.	Impact Height in. [mm]	Impact Speed mph [km/h]	Impact Angle (X)
CTPB-14	a1	HSS 3x2x1/8 [76x51x3] with two 7/8" [22] holes	3	12 [305]	20 [32.2]	0°
CTPB-15	a1	HSS 3x2x1/8 [76x51x3] with two 7/8" [22] holes	3	12 [305]	20 [32.2]	25°
CTPB-16	a2	HSS 3x2x1/8 [76x51x3] with two 3/4" [19] holes	3	12 [305]	20 [32.2]	0°
CTPB-17	a2	HSS 3x2x1/8 [76x51x3] with two 3/4" [19] holes	3	12 [305]	20 [32.2]	25°

0° = Weak Axis, 90° = Strong Axis



- Notes: (1) Additional camera positioned for a zoomed-in view of the base of the post (holes).
(2) Measure post thickness three times on each end prior to installation.



Midwest Roadside
Safety Facility

Cable Median Barrier
Post Testing
Test Nos. CTPB-14-19

Shear Impact Test Layout

DWG. NAME.
CTPB-14-19_R0

SCALE: 1:30
UNITS: in.[mm]

SHEET:
1 of 4

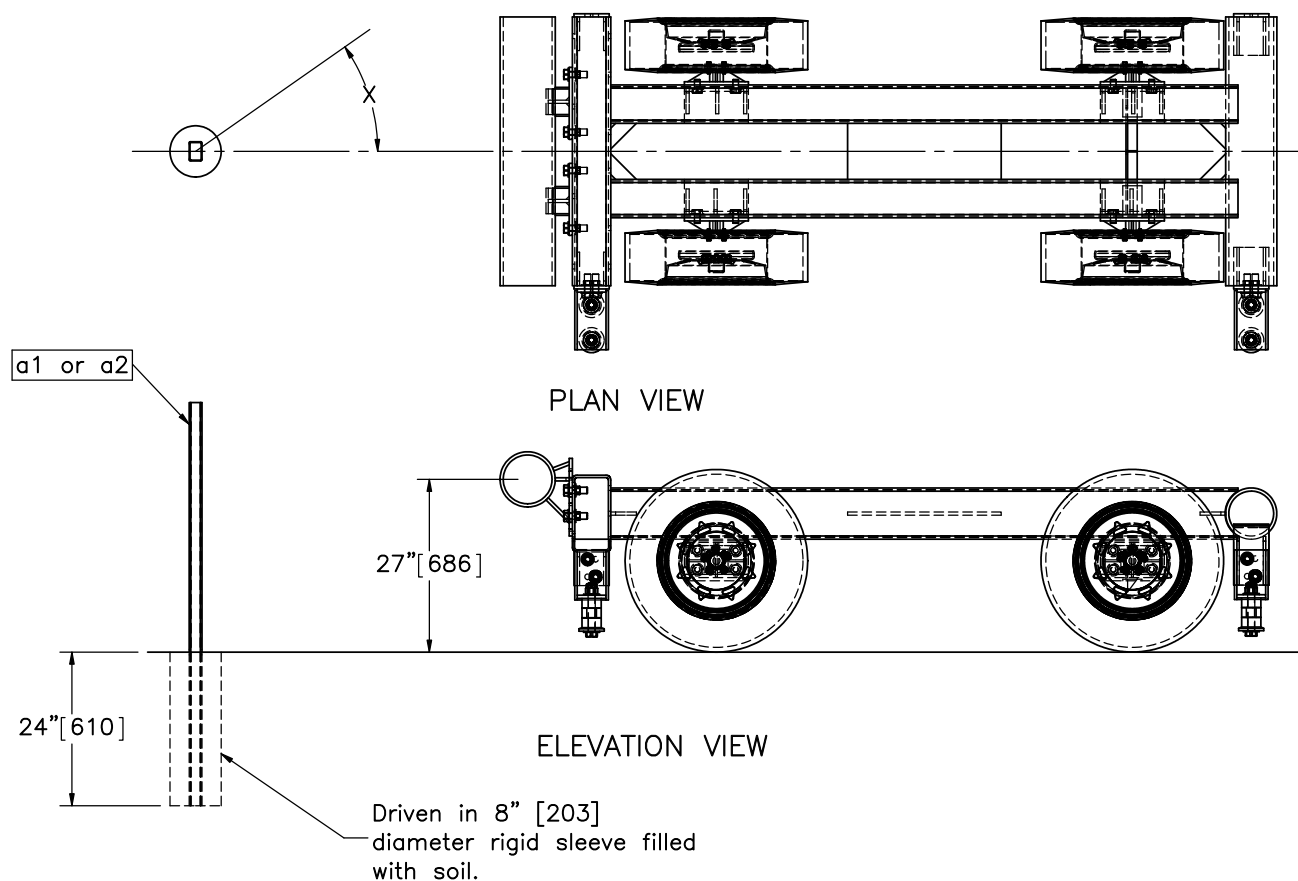
DATE:
9/28/2017

DRAWN BY:
JEK

REV. BY:
-

Test No.	Part No.	Post Type	Bogie No.	Impact Height in. [mm]	Impact Speed mph [km/h]	Impact Angle (X)
CTPB-18	a1	HSS 3x2x1/8 [76x51x3] with two 7/8" [22] holes	3	27 [686]	20 [32.2]	90°
CTPB-19	a2	HSS 3x2x1/8 [76x51x3] with two 3/4" [19] holes	3	27 [686]	20 [32.2]	90°

0° = Weak Axis, 90° = Strong Axis



- Notes: (1) Additional camera positioned for a zoomed-in view of the base of the post (holes).
(2) Measure post thickness three times on each end prior to installation.



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Cable Median Barrier
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Strong Axis Test Layout

DWG. NAME.
CTPB-14-19_R0

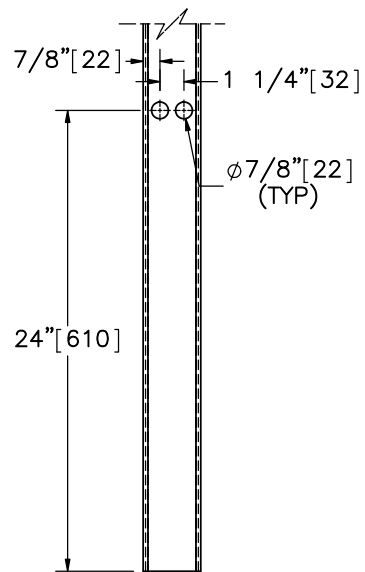
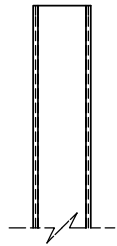
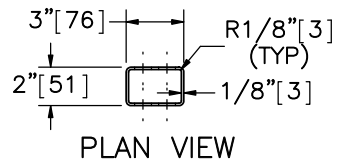
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UNITS: in.[mm]

SHEET:
2 of 4

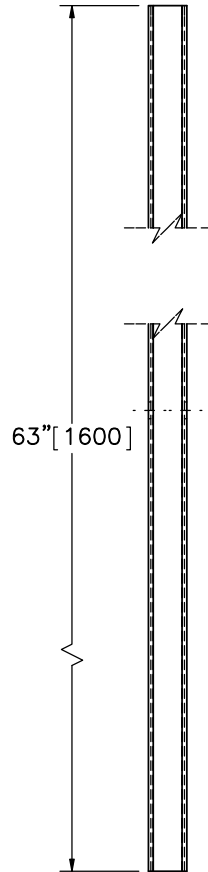
DATE:
9/28/2017

DRAWN BY:
JEK

REV. BY:
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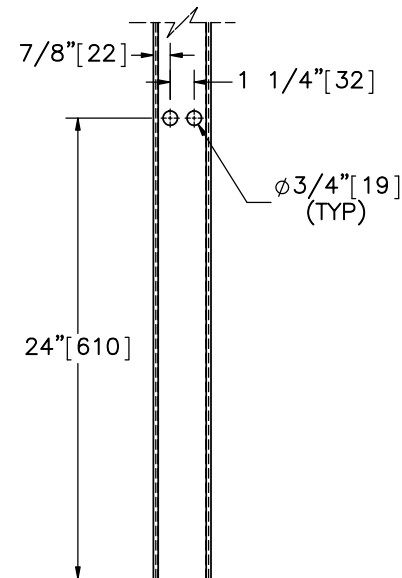
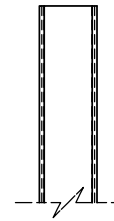
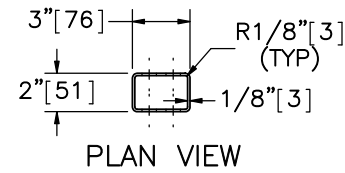


ELEVATION VIEW

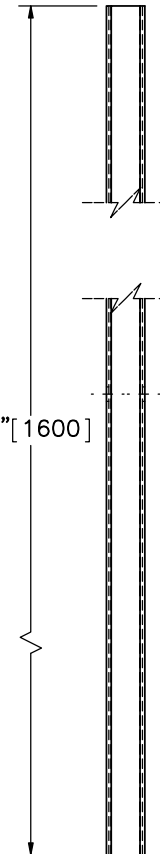


PROFILE VIEW

Part a1



ELEVATION VIEW



PROFILE VIEW

Part a2



Midwest Roadside
Safety Facility

Cable Median Barrier
Post Testing
Test Nos. CTPB-14-19

Post Details

DWG. NAME.
CTPB-14-19_R0

SCALE: 1:10
UNITS: in.[mm]

SHEET:
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DATE:
9/28/2017

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JEK

REV. BY:
-

Item No.	QTY.	Description	Material Specification	Galvanization Specification
a1	3	HSS 3x2x1/8 [76x51x3], 63" [1,600] Long Steel Post with two 7/8" [22] holes	ASTM A500 Gr. C**	ASTM A123*
a2	3	HSS 3x2x1/8 [76x51x3], 63" [1,600] Long Steel Post with two 3/4" [19] holes	ASTM A500 Gr. C**	ASTM A123*

* Component does not need to be galvanized for testing purposes.

** ASTM A500 Gr. B may be used if material cert shows that the min. elongation, tensile strength, and yield strength meet ASTM A500 Gr. C.
(Min. elongation: 21%, Tensile strength: 62 ksi [427 MPa], Yield strength: 50 ksi [345 MPa])



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Bill of Materials

DWG. NAME.
CTPB-14-19_R0

SCALE: None
UNITS: in.[mm]

SHEET:
4 of 4

DATE:
9/28/2017

DRAWN BY:
JEK

REV. BY:
-

System: Cable Post Options

Revision History

Drawing: CTPB-14-19

REV.	DATE OF ISSUE	Page	NATURE OF CHANGES	REVIEWER	REVISED BY
0	9/28/2017	–	Originated from drawing CTPB-11-13_R3. Impact condition and post changes.	–	JEK