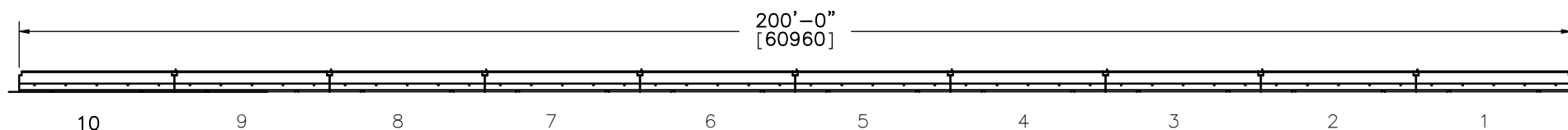
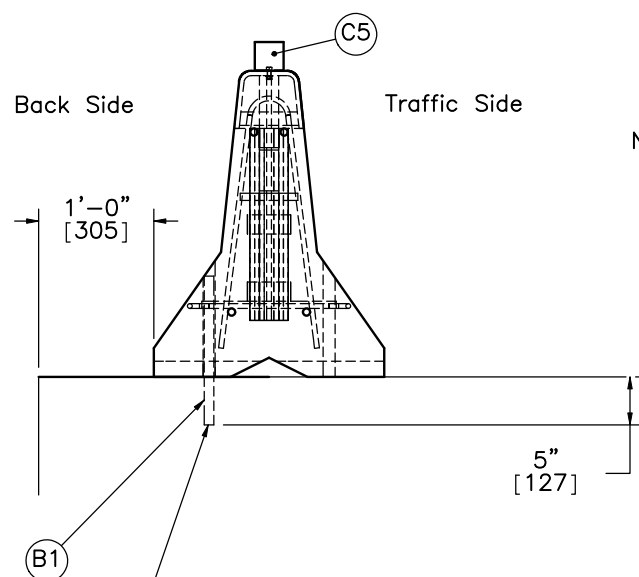


PROFILE VIEW

Test No. NYTCBP-5



ELEVATION VIEW



SECTION A-A
SCALE 1 : 20

Barrier sections 1-10 are each anchored into concrete pad with 4 - A36 $\phi 1$ " [25] x 15 1/2" [394] long unthreaded steel rods set in $\phi 1 1/8$ " [29] x 5" [127] deep drilled holes.

- Notes: (1) All ten barrier sections are anchored to the concrete tarmac using steel pins placed into drilled concrete holes and through the back side only using 4 pins per barrier segment.
- (2) Alternatively, the NYSDOT has an option for anchoring the barrier segments on an asphalt surface. For this option, anchor pins may be driven 18 in. [457] into the asphalt surface.
- (3) Test no. NYTCBP-5 shall be conducted according to test designation no. 3-11 of MASH.
- (4) The critical impact location is 4'-3 3/16" [1300] upstream from the centerline of the joint between barrier nos. 4 and 5.
- (5) For test no. NYTCBP-5, the barrier reflectors (part no. c5) will be omitted.



Midwest Roadside
Safety Facility

NY Pinned Temporary Concrete
Barrier

System Layout

DWG. NAME.
NYTCBP-5_R7

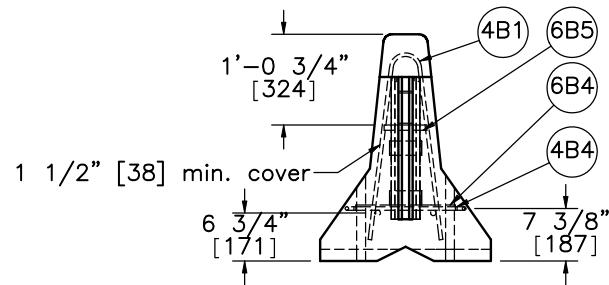
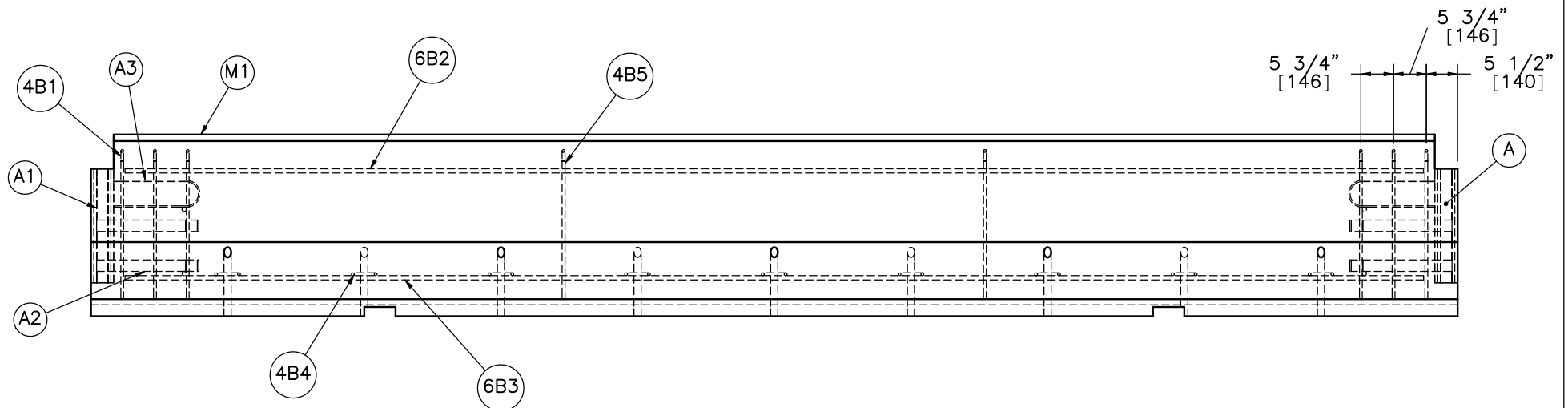
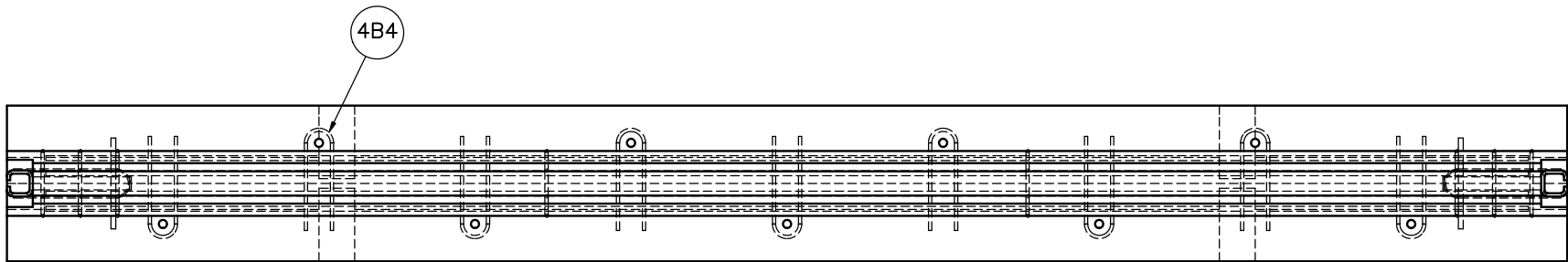
SCALE: 1:245
UNITS: In./mm

SHEET:
1 of 9

DATE:
9/8/2009

DRAWN BY:
GRA/EAJ/
BDS/RJT

REV. BY:
KAL/RKF



End View



Midwest Roadside
Safety Facility

NY Pinned Temporary Concrete
Barrier

Reinforcement Details

DWG. NAME.
NYTCBP-5_R7

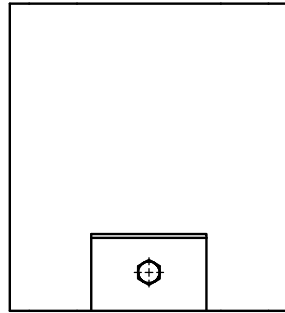
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UNITS: In./mm

SHEET:
3 of 9

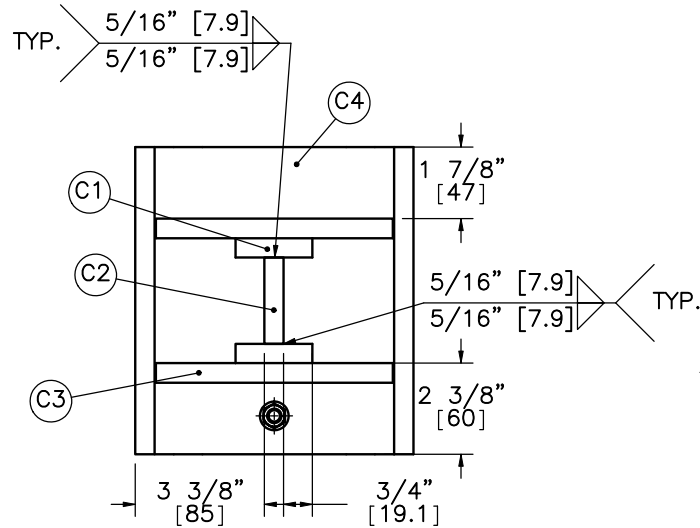
DATE:
9/8/2009

DRAWN BY:
GRA/EAJ/
BDS/RJT

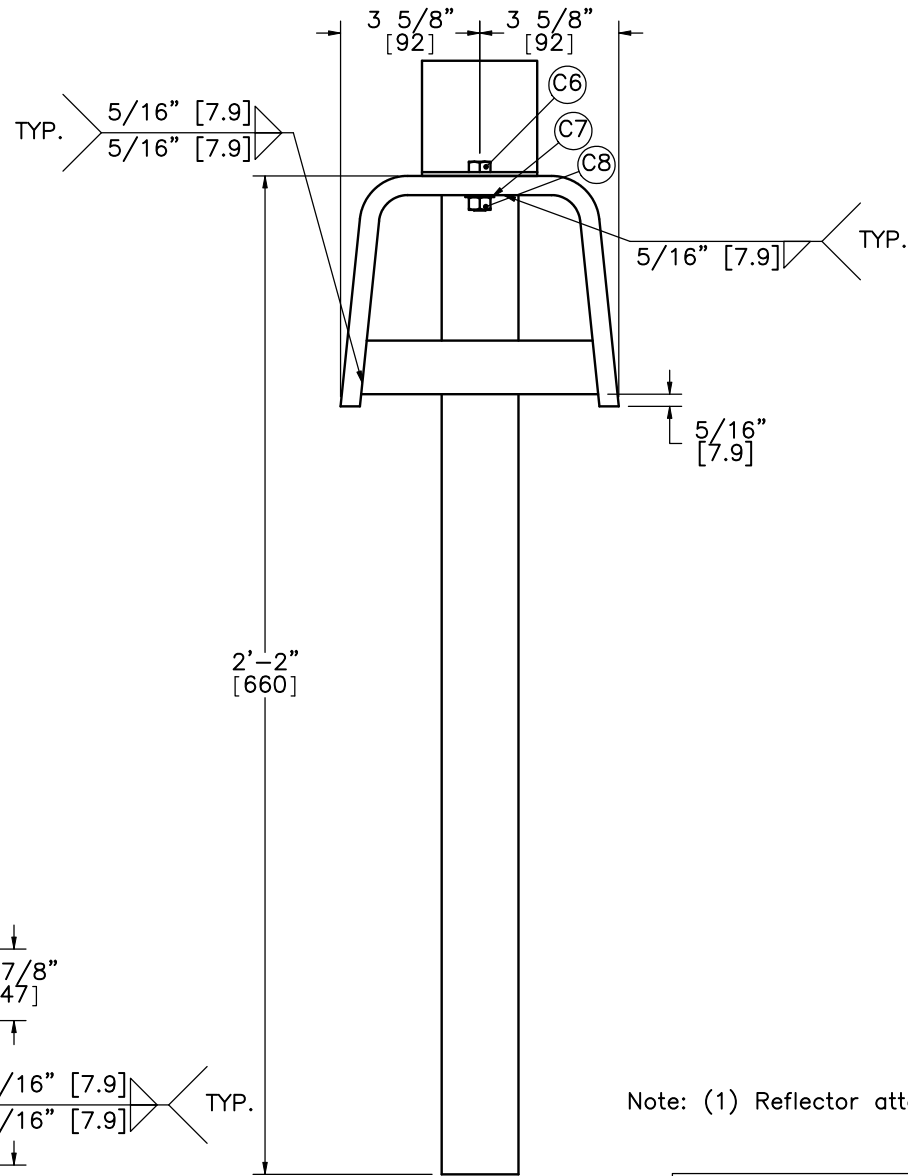
REV. BY:
KAL/RKF



Top View

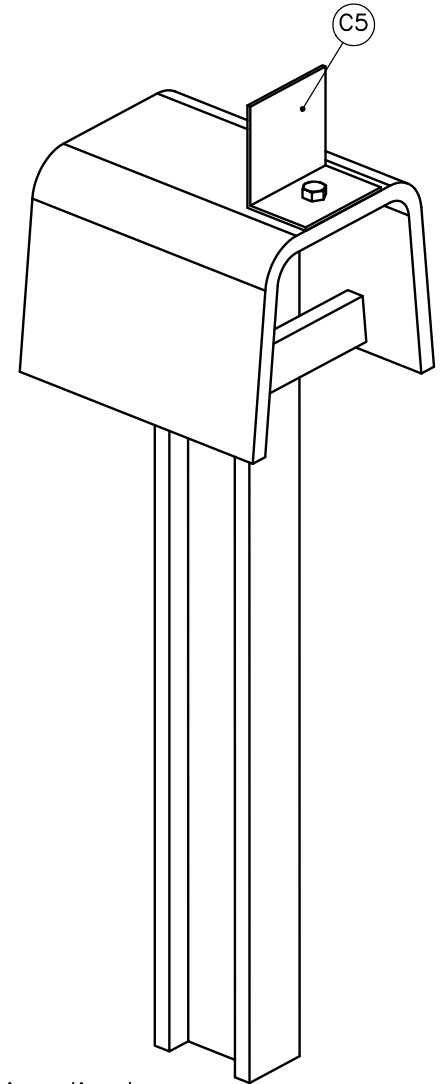


Bottom View



Front View

Assembly C
Connection Key



Note: (1) Reflector attachment is optional.



Midwest Roadside
Safety Facility

NY Pinned Temporary Concrete
Barrier

Connection Key Assembly
Assembly C

DWG. NAME.
NYTCBP-5_R7

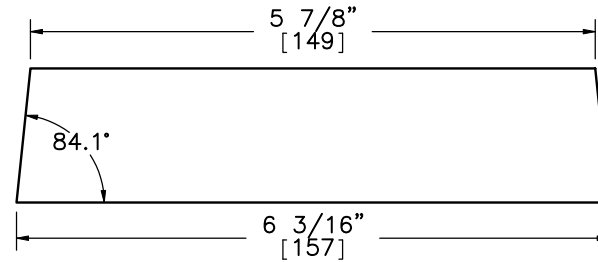
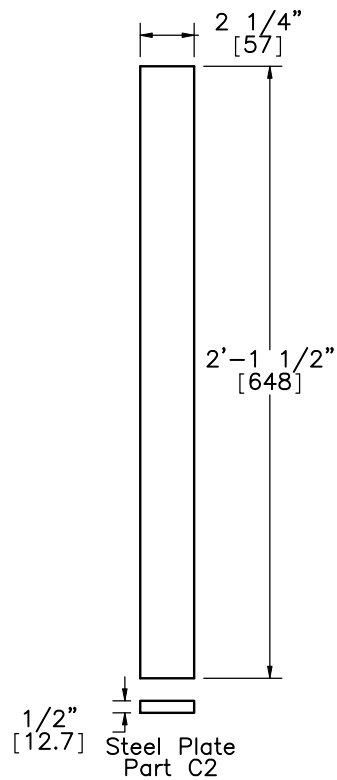
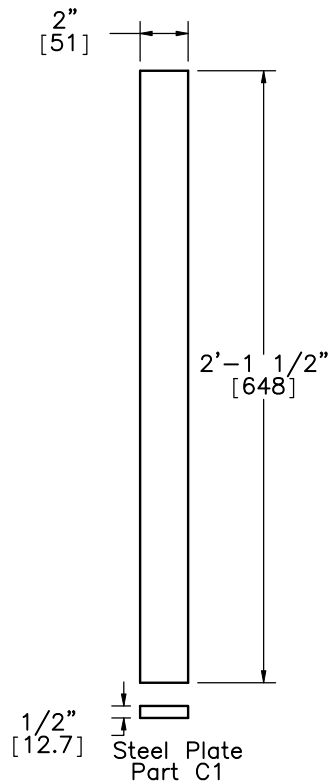
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UNITS: In./mm

SHEET:
4 of 9

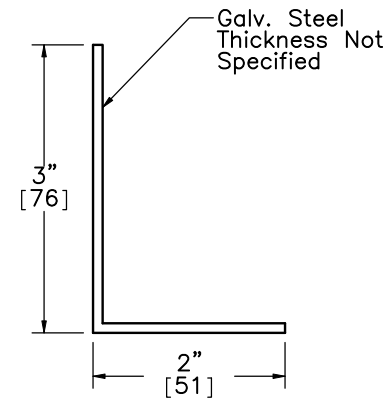
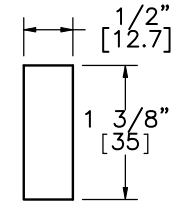
DATE:
9/8/2009

DRAWN BY:
GRA/EAJ/
BDS/RJT

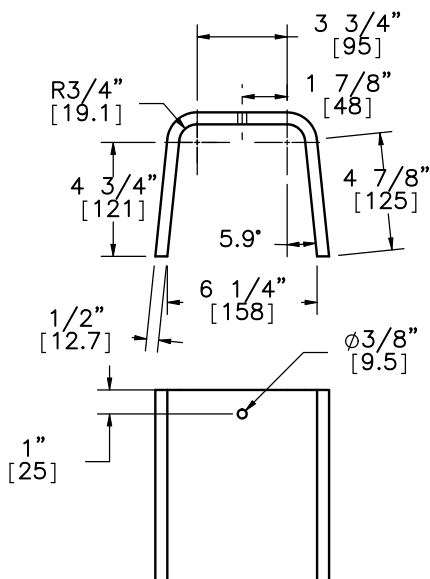
REV. BY:
KAL/RKF



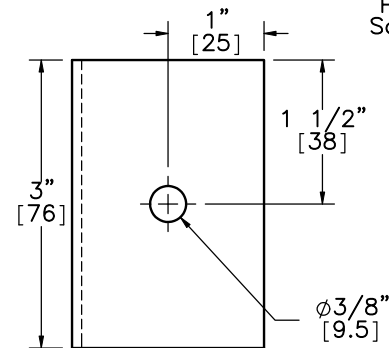
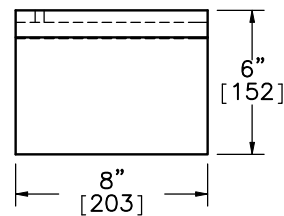
Stiffener
Part C3
Scale 1:2



Reflector
Part C5
Scale 1:2



Top Plate
Part C4



Midwest Roadside
Safety Facility

NY Pinned Temporary Concrete
Barrier

Connection Key Assembly
Components

DWG. NAME.
NYTCBP-5_R7

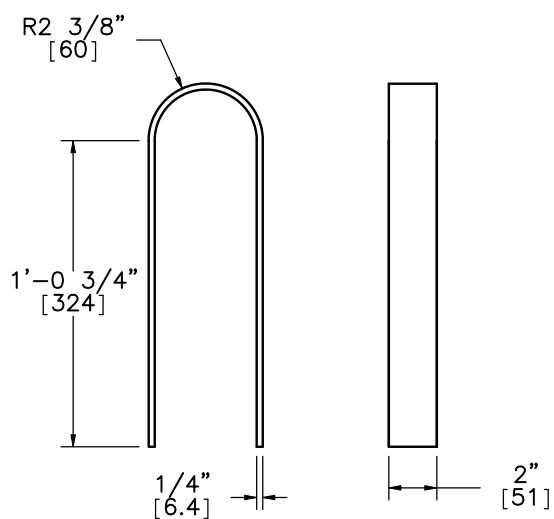
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UNITS: In./mm

SHEET:
5 of 9

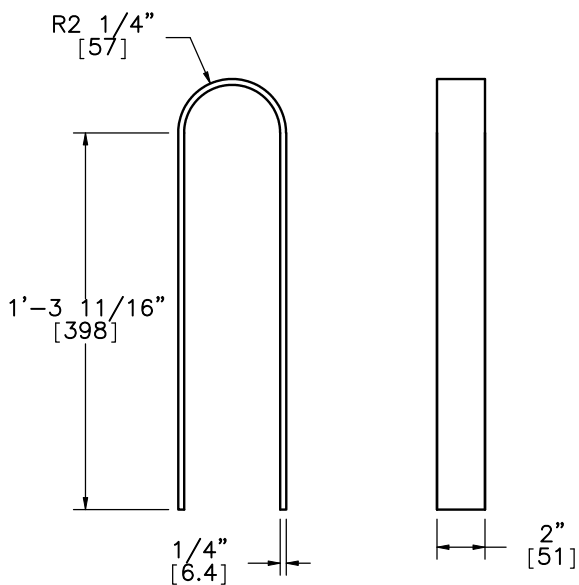
DATE:
9/8/2009

DRAWN BY:
GRA/EAJ/
BDS/RJT

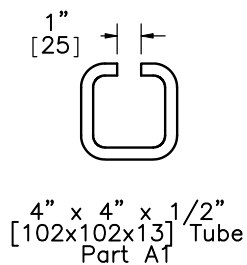
REV. BY:
KAL/RKF



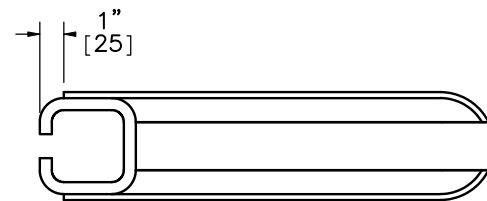
Curved Steel Plate 1
Part A2



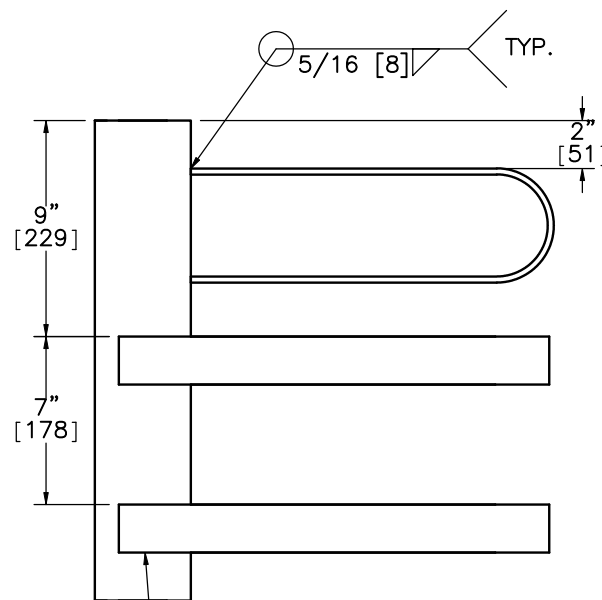
Curved Steel Plate 1
Part A3



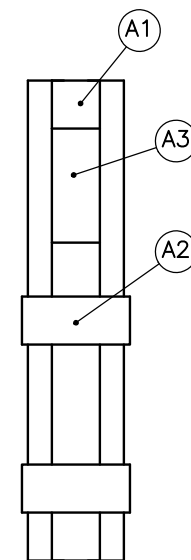
4" x 4" x 1/2" Tube
Part A1



Top View



Front View



Side View

Connector Key
Assembly A



Midwest Roadside
Safety Facility

NY Pinned Temporary Concrete
Barrier

Connector Key
Assembly A

DWG. NAME.
NYTCBP-5_R7

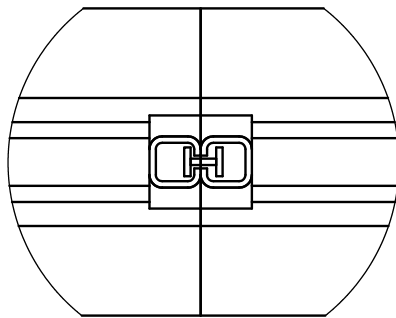
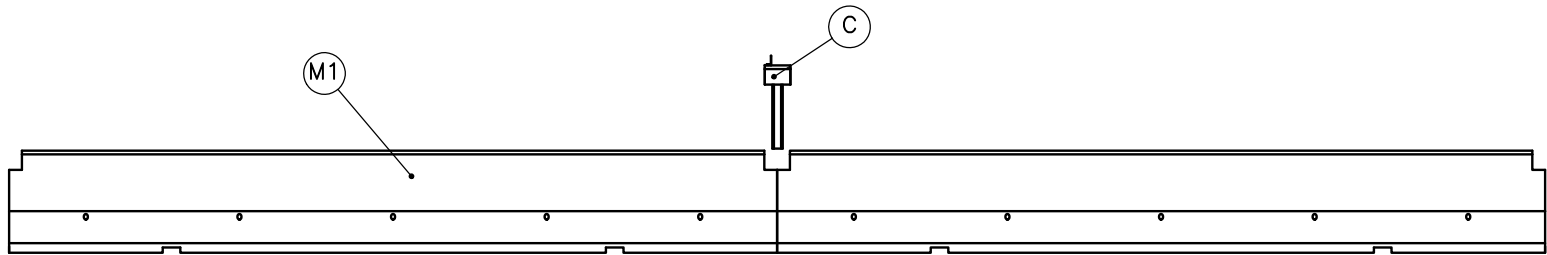
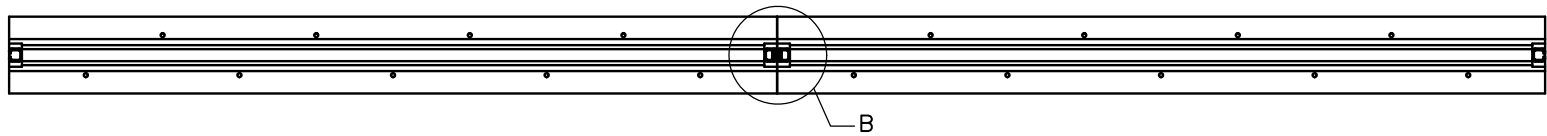
SCALE: 1:8
UNITS: In./mm

SHEET:
6 of 9

DATE:
9/8/2009

DRAWN BY:
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BDS/RJT

REV. BY:
KAL/RKF



DETAIL B
SCALE 1 : 15



**Midwest Roadside
Safety Facility**

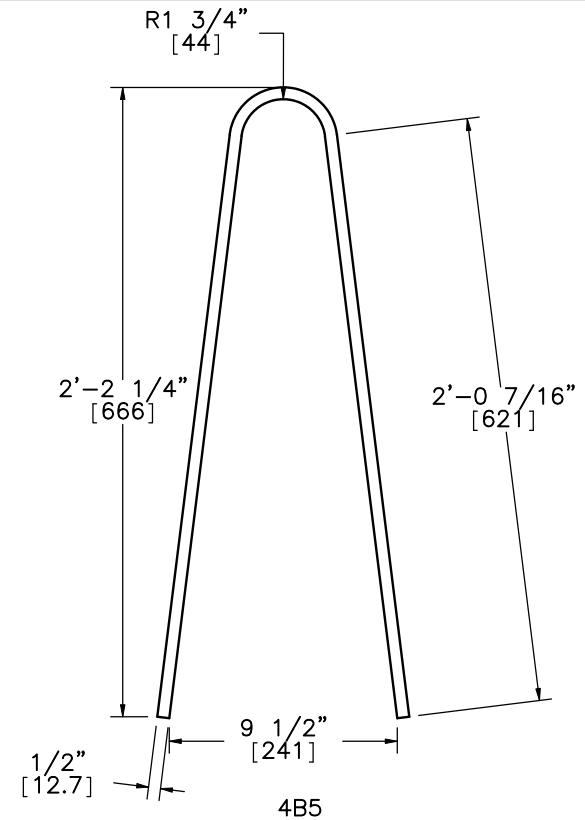
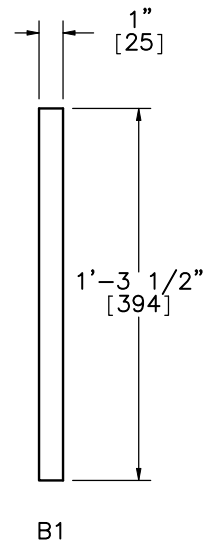
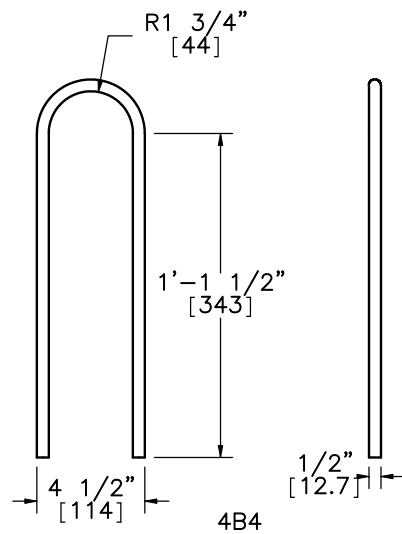
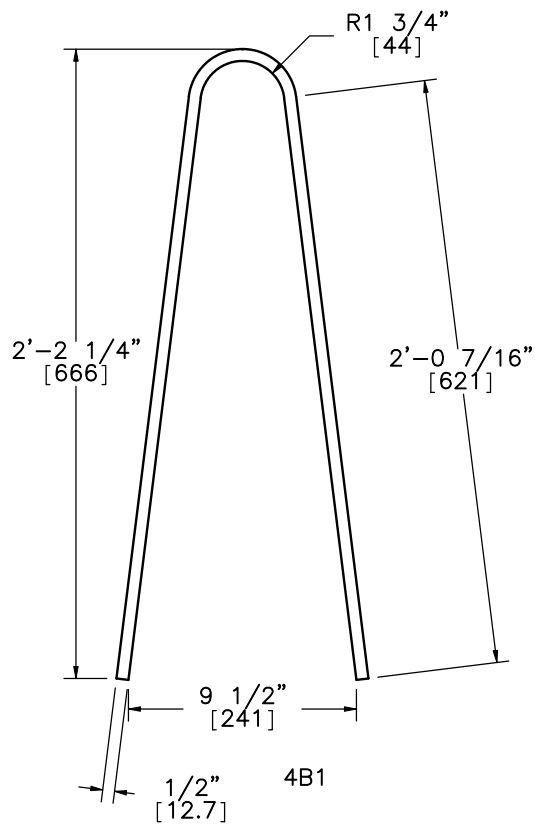
NY Pinned Temporary Concrete
Barrier

Connection Key

DWG. NAME.
NYTCBP-5_R7

SCALE: 1:60
UNITS: In./mm

SHEET:
7 of 9
DATE:
9/8/2009
DRAWN BY:
GRA/EAJ/
BDS/RJT
REV. BY:
KAL/RKF



NY Pinned Temporary Barrier					
Item No.	Bend Dia.	Qty.	Length	Material Spec	Bar Size
B1	—	40	15-1/2" [394]	A36M	1"
4B1	3-1/2" [89]	60	55-3/8" [1406]	A615 Gr. 60	4
4B4	3-1/2" [89]	90	34-1/6" [868]	A615 Gr. 60	4
4B5	3-1/2" [89]	20	55-3/8" [1406]	A615 Gr. 60	4
6B2	—	20	19'-0" [5791]	A615 Gr. 60	6
6B3	—	20	19'-0" [5791]	A615 Gr. 60	6
6B4	—	20	14" [356]	A615 Gr. 60	6
6B5	—	20	6" [152]	A615 Gr. 60	6

Note: (1) Quantities in Bill of Bars represent a system with ten barriers.



Midwest Roadside
Safety Facility

NY Pinned Temporary Concrete
Barrier

Bill of Bars

DWG. NAME.
NYTCBP-5_R7

SCALE: 1:8
UNITS: In./mm

SHEET:
8 of 9
DATE:
9/8/2009
DRAWN BY:
GRA/EAJ/
BDS/RJT
REV. BY:
KAL/RKF

Item No.	QTY.	Description	Material Specification
M1	10	Concrete Section	$f'_c = 3,000 \text{ psi}$ [21 MPa]
4B1	60	Rebar 4B1	ASTM A615 Gr. 60
4B4	90	Rebar 4B4	ASTM A615 Gr. 60
4B5	20	Rebar 4B5	ASTM A615 Gr. 60
6B2	20	Rebar 6B2	ASTM A615 Gr. 60
6B3	20	Rebar 6B3	ASTM A615 Gr. 60
6B4	20	Rebar 6B4	ASTM A615 Gr. 60
6B5	20	Rebar 6B5	ASTM A615 Gr. 60
A1	20	Steel Tube – 4"x4"x1/2" [102x102x12.7] thick x 20" [508] long	ASTM A500 Gr. B or C
A2	40	Steel Plate	ASTM A36
A3	20	Steel Plate	ASTM A36
B1	40	Anchor Rod	ASTM A36M
C1	18	Steel Plate	ASTM A36
C2	9	Steel Plate	ASTM A36
C3	18	Steel Plate–1/2" [12.7]	ASTM A36
C4	9	Steel Plate– 1/2" [12.7]	ASTM A36
C5	9	Steel Plate	ASTM A36
C6	9	$\phi 7/16"$ –17 x 1" [M10 x 25] long bolt	ASTM A325
C7	9	7/16" [11.1] Dia. Lock Washer	ASTM F436 Gr. 1
C8	9	7/16" [11.1] Dia. Hex Nut	ASTM A563



Midwest Roadside
Safety Facility

NY Pinned Temporary Concrete
Barrier

Bill of Materials

DWG. NAME.
NYTCBP-5_R7

SCALE: None
UNITS: In.[mm]

SHEET:
9 of 9
DATE:
9/8/2009
DRAWN BY:
GRA/EAJ/
BDS/RJT
REV. BY:
KAL/RKF