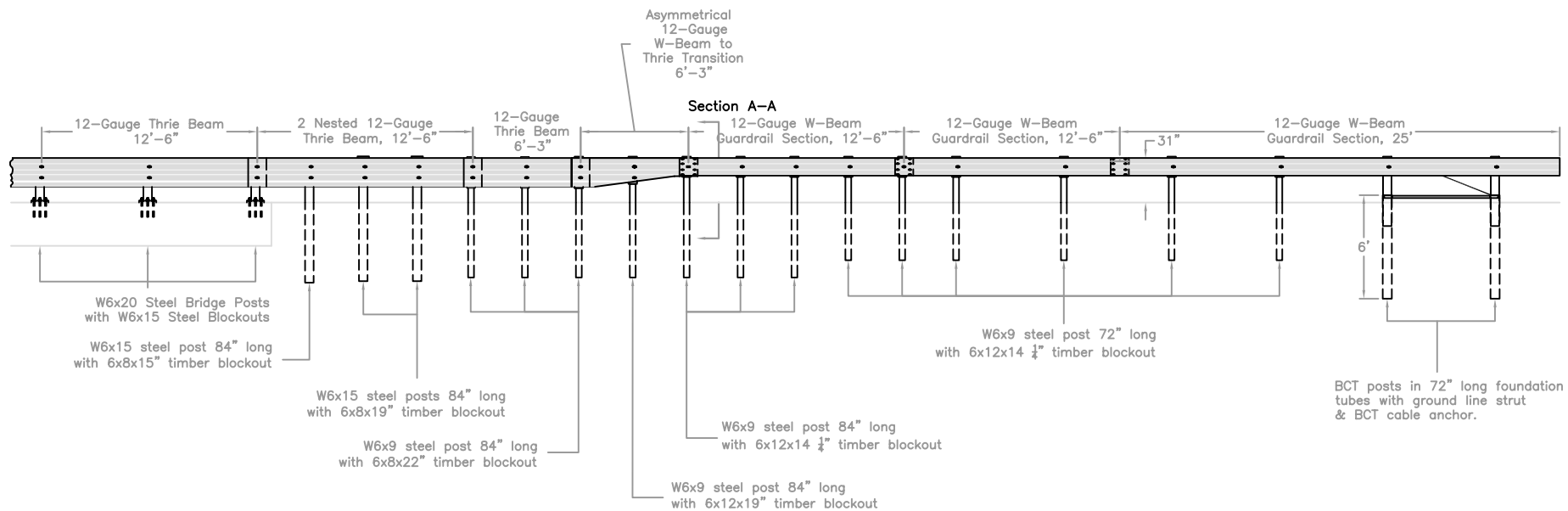


Plan View



Front Elevation



Midwest Roadside
Safety Facility

W-BEAM TO
STIFF BRIDGE TRANSITION

LAYOUT

Drawing Name:
MWT-4 R8.dwg

Scale:
None

Sheet:

1 of 11

Date:

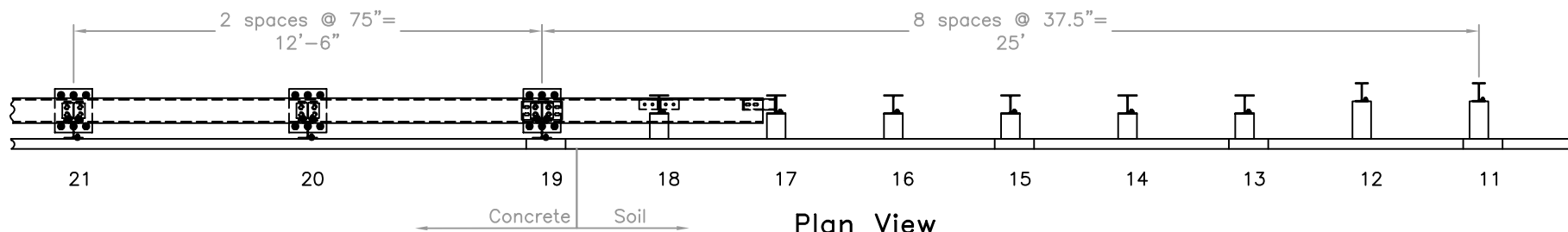
08/24/2007

By:

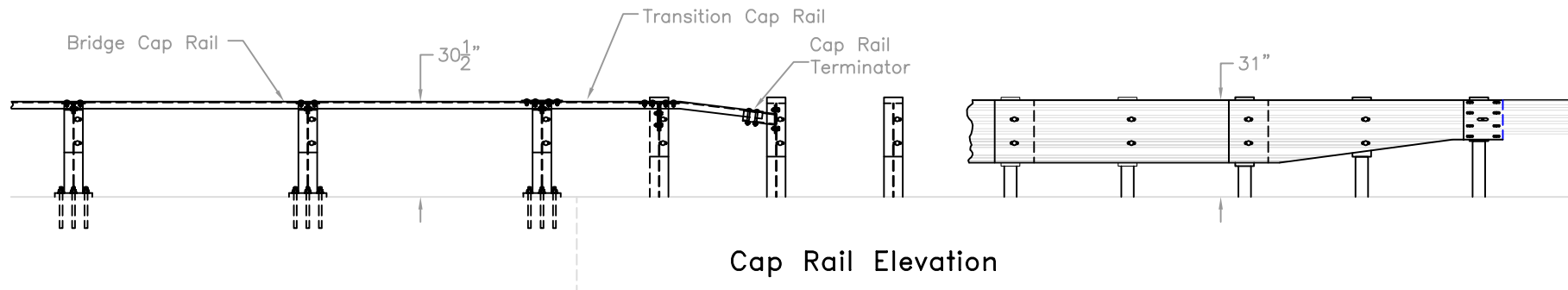
GEP

Rev:

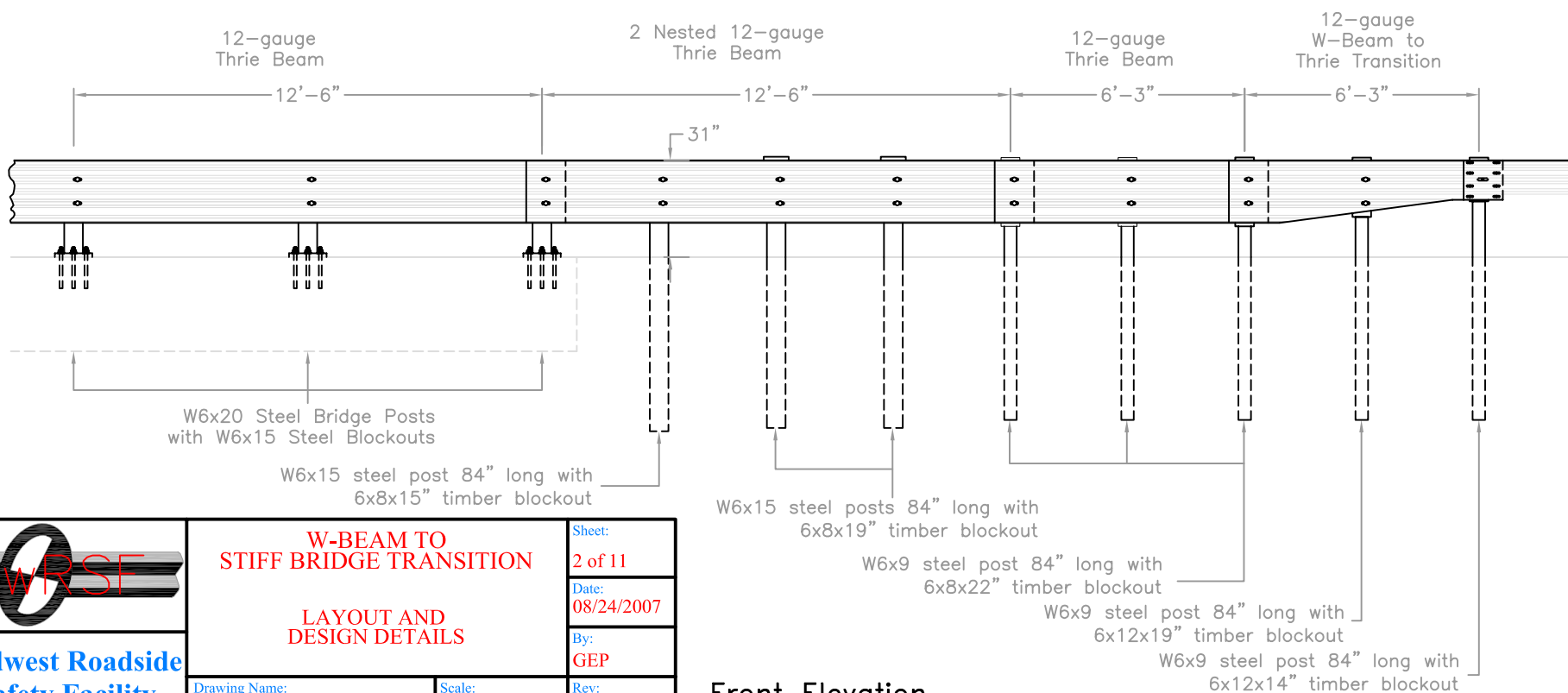
EMA



Plan View



Cap Rail Elevation



Front Elevation



**Midwest Roadside
Safety Facility**

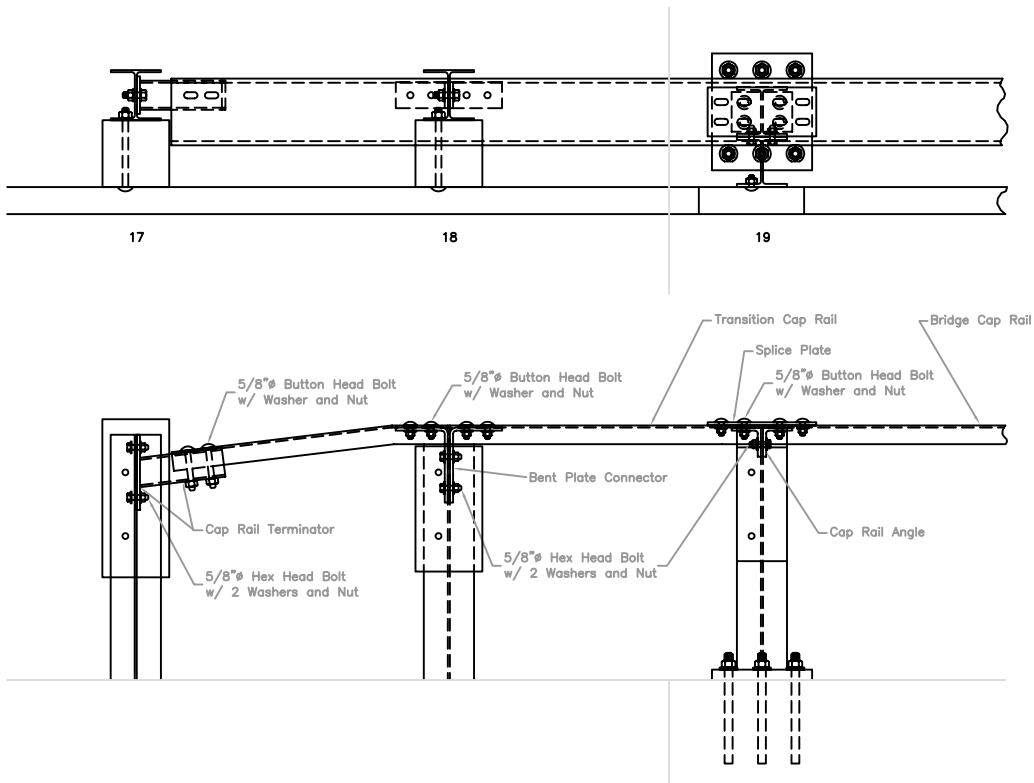
**W-BEAM TO
STIFF BRIDGE TRANSITION**

**LAYOUT AND
DESIGN DETAILS**

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MWT-4 R8.dwg

Scale:
None

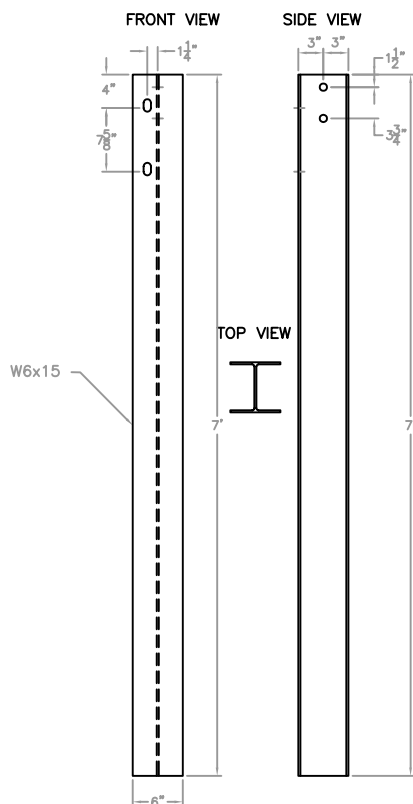
Sheet:
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GEP
Rev:
EMA



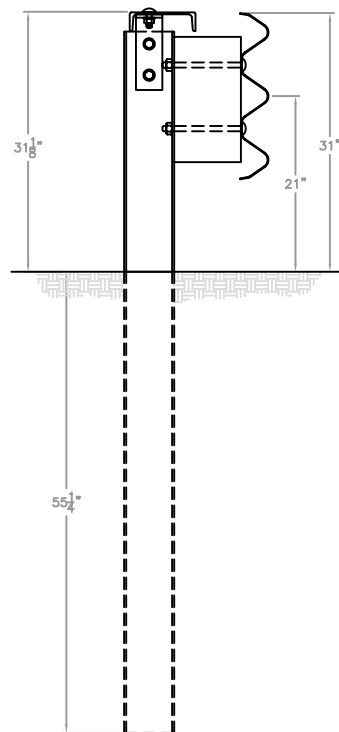
THRIE BEAM POST
(Post No. 18)

THRIE BEAM SPACER

THRIE BEAM SUPPORT DETAILS



NOTES:
(1) Steel for wide-flange shall meet ASTM A36.
(2) All holes drilled or punched to $\frac{3}{4}$ \" diameter.
(3) All bolts are $\frac{5}{8}$ \" diameter.



W-BEAM TO
STIFF BRIDGE TRANSITION

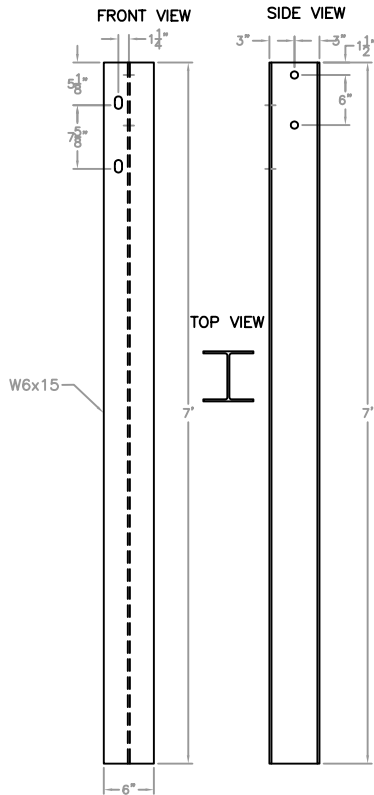
CAP RAIL DETAIL &
POST 18

Drawing Name:
MWT-4 R8.dwg

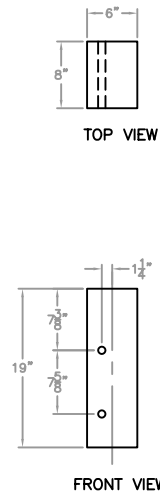
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EMA

THRIE BEAM POST
(Post No. 17)

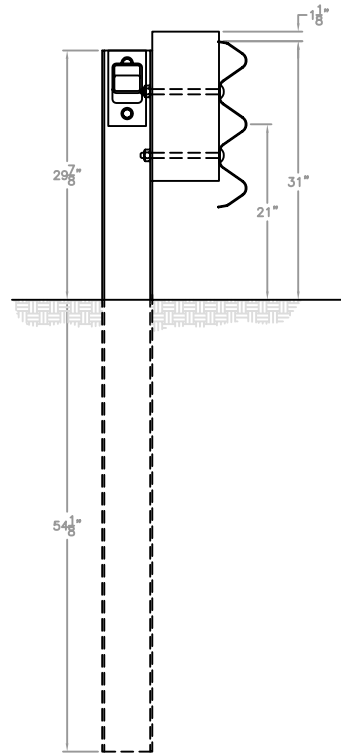


THRIE BEAM SPACER

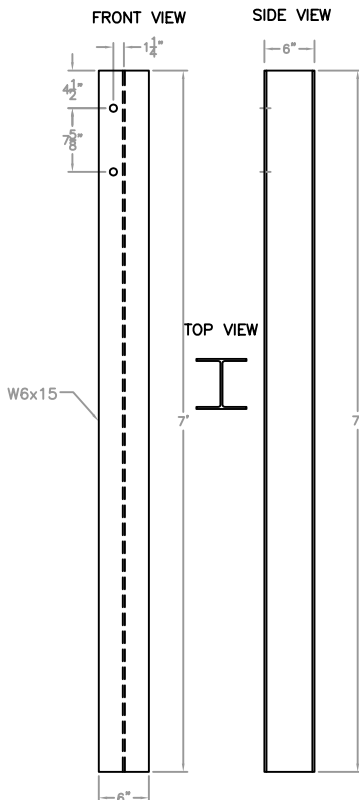


NOTES:
(1) Steel for wide-flange shall meet ASTM A36.
(2) All holes drilled or punched to $\frac{3}{4}$ " diameter.
(3) All bolts are $\frac{5}{8}$ " diameter.

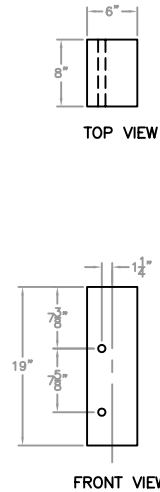
THRIE BEAM SUPPORT DETAILS



THRIE BEAM POST
(Post No. 16)

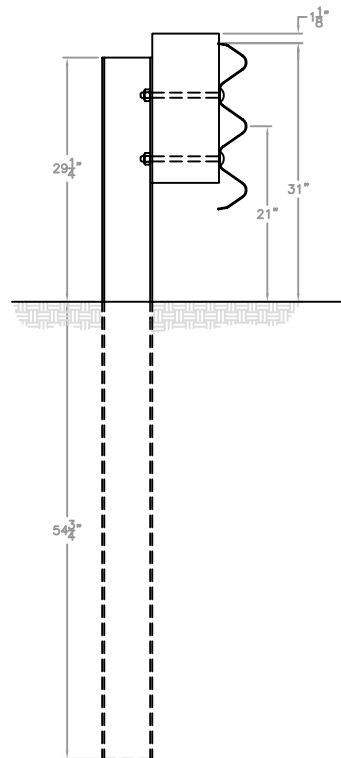


THRIE BEAM SPACER



NOTES:
(1) Steel for wide-flange shall meet ASTM A36.
(2) All holes drilled or punched to $\frac{3}{4}$ " diameter.
(3) All bolts are $\frac{5}{8}$ " diameter.

THRIE BEAM SUPPORT DETAILS



W-BEAM TO
STIFF BRIDGE TRANSITION

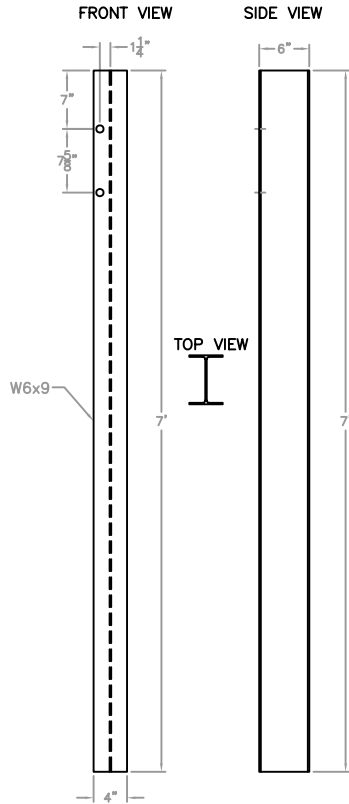
POST 16 & 17

Drawing Name:
MWT-4 R8.dwg

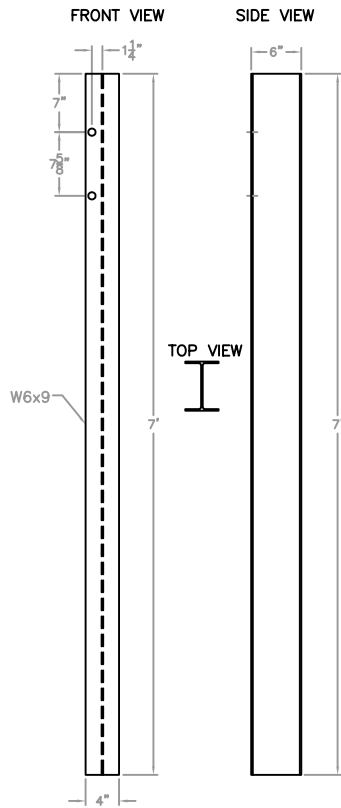
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EMA

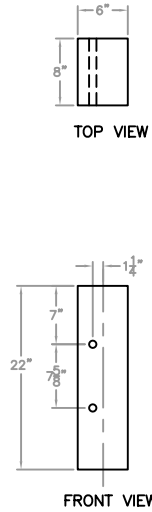
THRIE BEAM POST (Post No. 13-15)



W-BEAM TO THRIE BEAM MID-POST (Post No. 12)

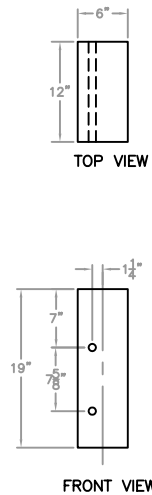


THRIE BEAM SPACER



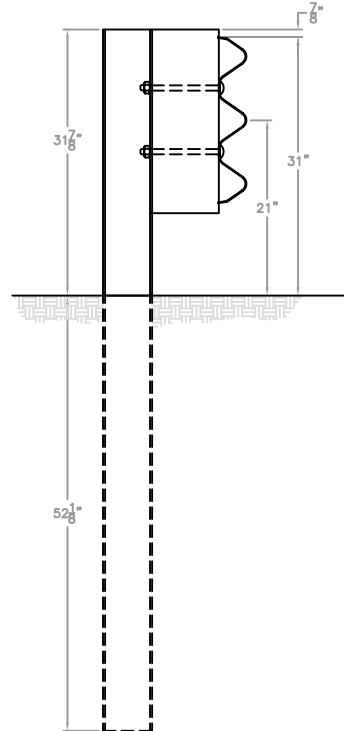
NOTES:
(1) Steel for wide-flange shall meet ASTM A36.
(2) All holes drilled or punched to 3/4" diameter.
(3) All bolts are 5/8" diameter.

W-BEAM TO THRIE BEAM MID-POST SPACER

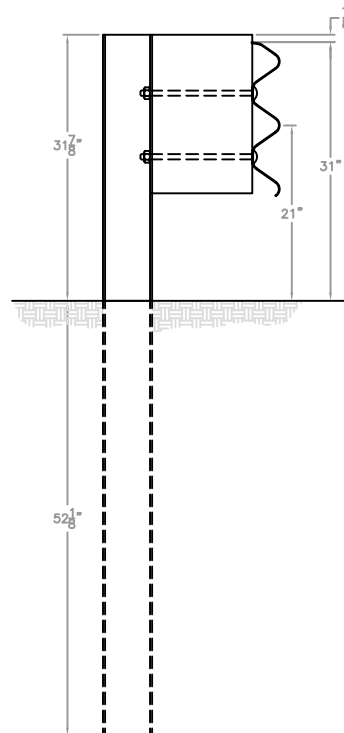


NOTES:
(1) Steel for wide-flange shall meet ASTM A36.
(2) All holes drilled or punched to 3/4" diameter.
(3) All bolts are 5/8" diameter.

THRIE BEAM SUPPORT DETAILS



W-BEAM TO THRIE BEAM SUPPORT DETAILS



Midwest Roadside
Safety Facility

W-BEAM TO
STIFF BRIDGE TRANSITION

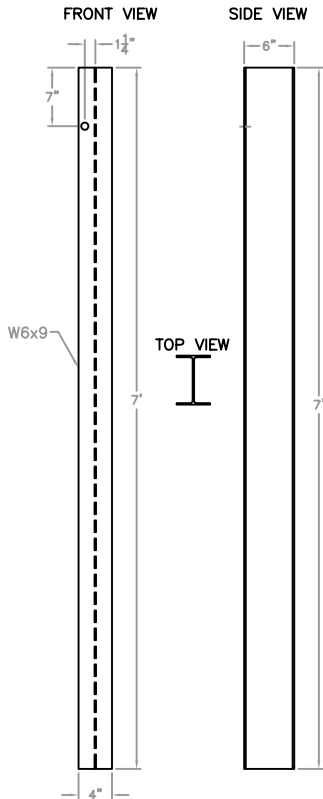
POST 13-15 &
POST 12

Drawing Name:
MWT-4 R8.dwg

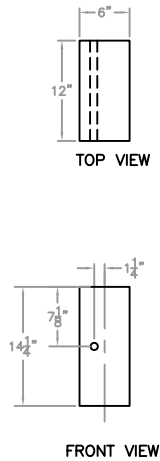
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**W-BEAM POST
(Post No. 9-11)**

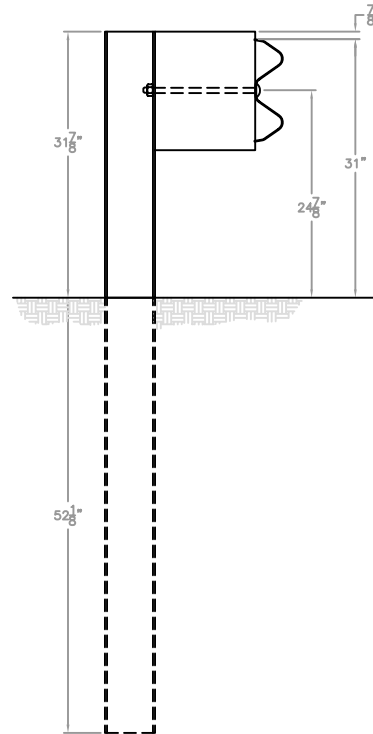


W-BEAM SPACER

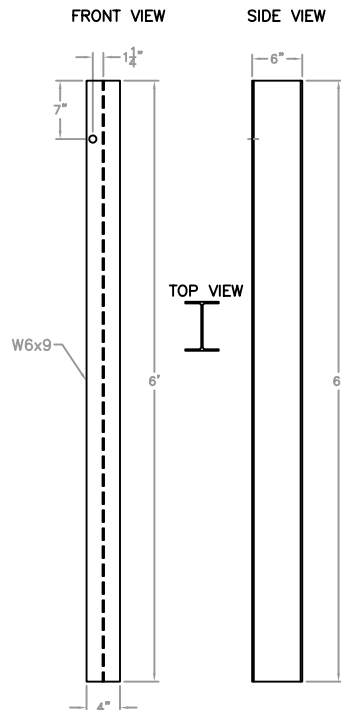


NOTES:
(1) Steel for wide-flange shall meet ASTM A36.
(2) All holes drilled or punched to $\frac{3}{4}$ " diameter.
(3) All bolts are $\frac{5}{8}$ " diameter.

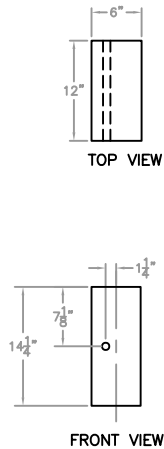
W-BEAM SUPPORT DETAILS



**W-BEAM POST
(Post No. 3-8)**

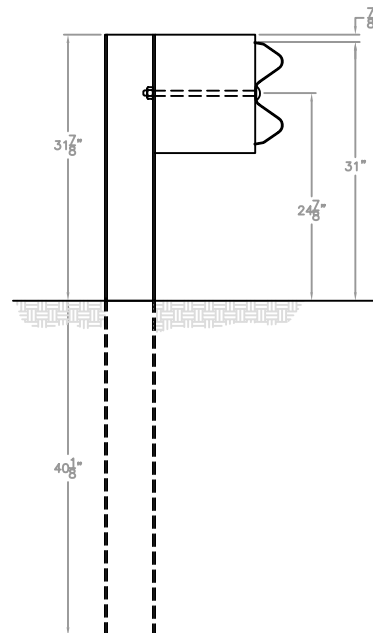


W-BEAM SPACER



NOTES:
(1) Steel for wide-flange shall meet ASTM A36.
(2) All holes drilled or punched to $\frac{3}{4}$ " diameter.
(3) All bolts are $\frac{5}{8}$ " diameter.

W-BEAM SUPPORT DETAILS



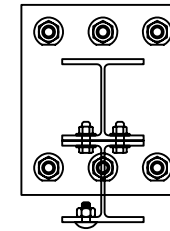
**W-BEAM TO
STIFF BRIDGE TRANSITION**

**POST 9-11 &
POST 3-8**

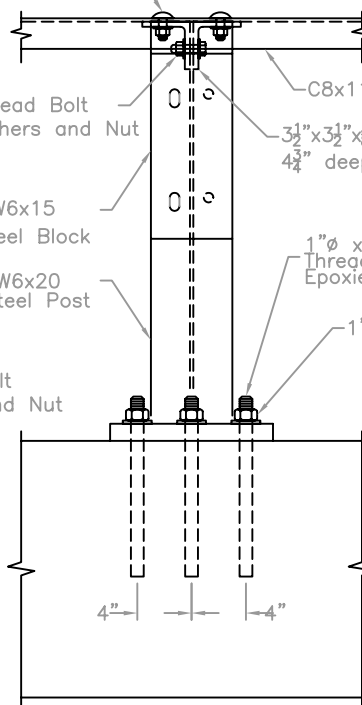
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MWT-4 R8.dwg

Scale:
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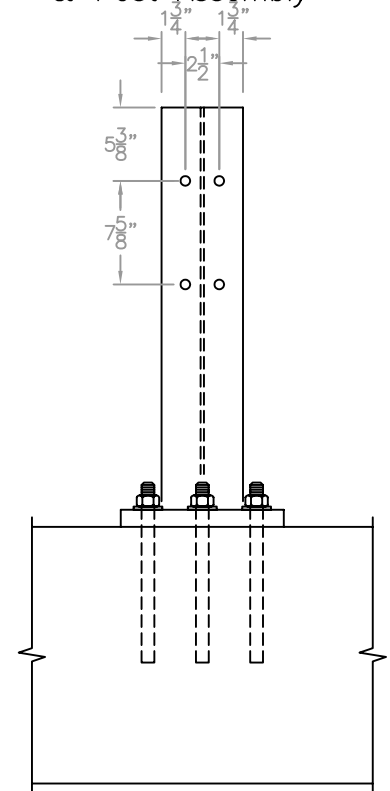
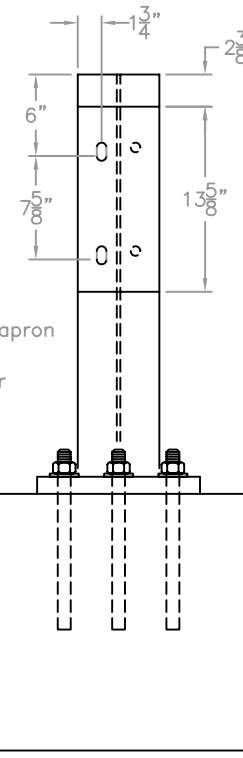
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GEP
Rev:
EMA



5"ø Button Head Bolt
w/ Washer and Nut



5"Ø Hex Head Bolt
w/ 2 Washers and



Technical drawing of a vertical assembly. The drawing shows a side view of a structure with a base and a vertical support. Key dimensions include:

- Top horizontal dimensions: $\frac{1}{4}$ " (left), $\frac{3}{4}$ " (middle), and $\frac{1}{4}$ " (right).
- Left vertical dimension: $29\frac{5}{8}$ " (from base to top).
- Right vertical dimensions: $3\frac{5}{8}$ " (from top to first horizontal line), $2\frac{3}{8}$ " (from first to second horizontal line), and 31 " (from second horizontal line to base).
- Base dimensions: $\frac{1}{4}$ " (left), 10 " (width of the base), and 10 " (height of the base).

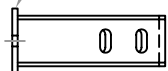
	W-BEAM TO STIFF BRIDGE TRANSITION CHANNEL BRIDGE RAIL DESIGN DETAILS		Sheet:
			7 of 11
Midwest Roadside Safety Facility	Drawing Name: MWT-4 R8.dwg		Date:
			08/24/2007
	Scale: None		By:
			GEP
			Rev:
			EMA



Transition Cap Rail
C8x11.5



Terminator Plate



Terminator Assembly



Terminator Tube
TS 3½" x 3½" x 1"



Terminator Plate
9"x4 $\frac{1}{2}$ "x $\frac{3}{8}$ "



Bent Plate Connector
L 6 $\frac{1}{4}$ "x9"x $\frac{3}{8}$ "



Splice Plate
5 $\frac{7}{8}$ "x13"x $\frac{3}{8}$ "



Midwest Roadside Safety Facility

W-BEAM TO STIFF BRIDGE TRANSITION

CHANNEL BRIDGE RAIL DESIGN DETAILS (CONT'D)

Drawing Name:
MWT-4 R8.dwg

Scale:
None

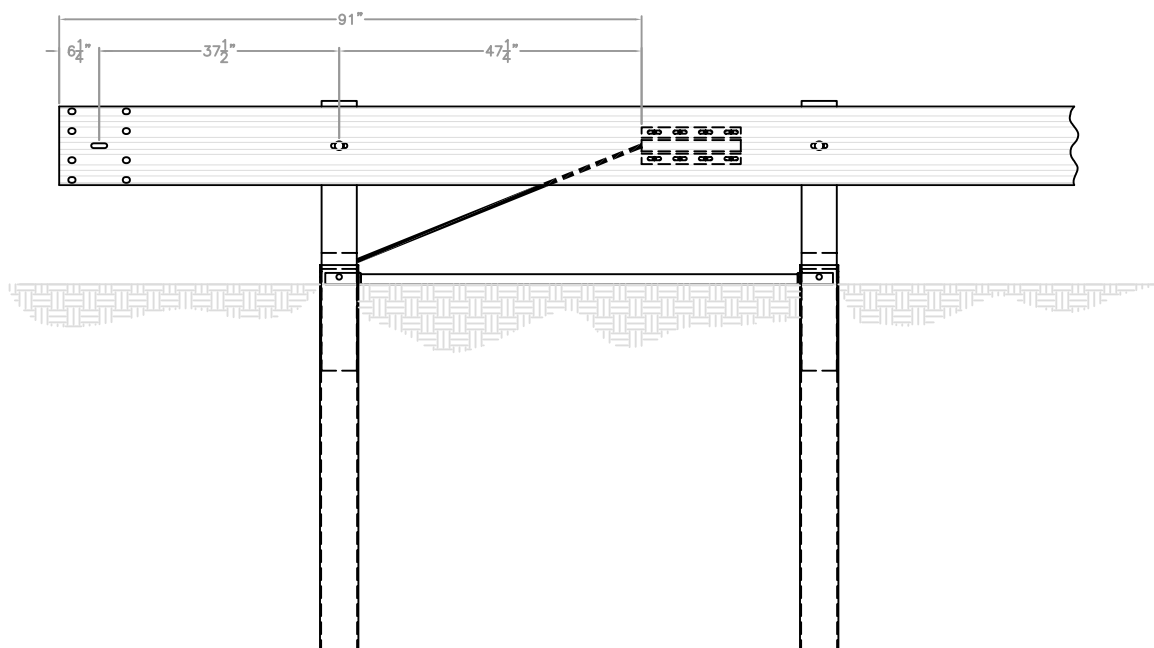
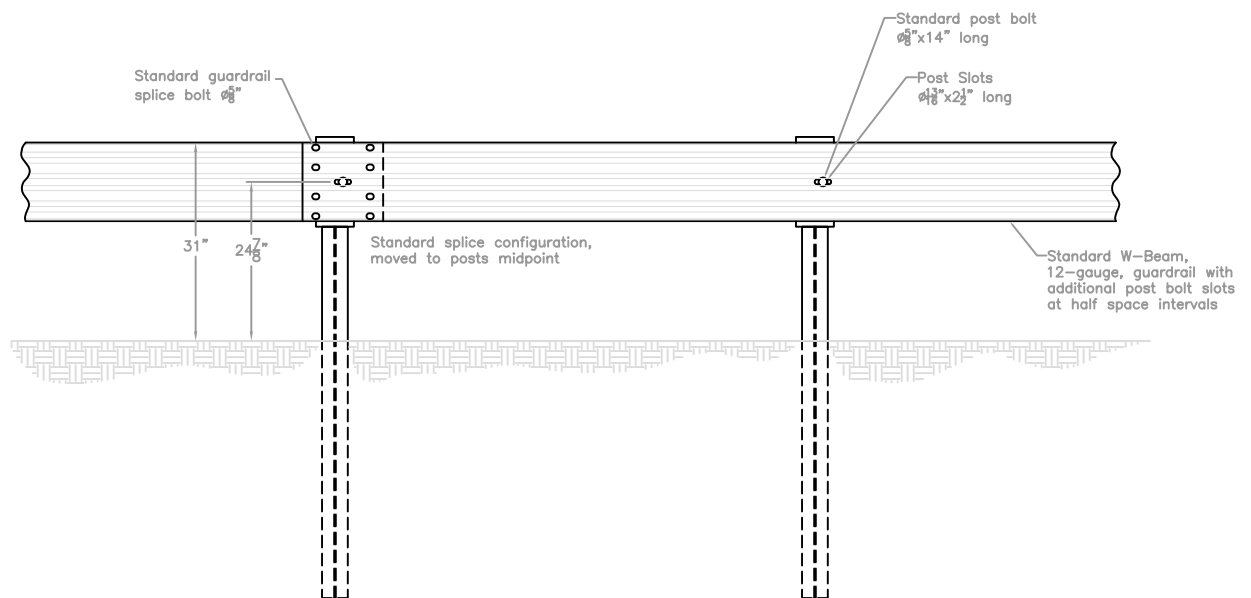
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By:
GEP

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EMA



**Midwest Roadside
Safety Facility**

W-BEAM TO STIFF BRIDGE TRANSITION

**Rail Detail
End BCT Detail**

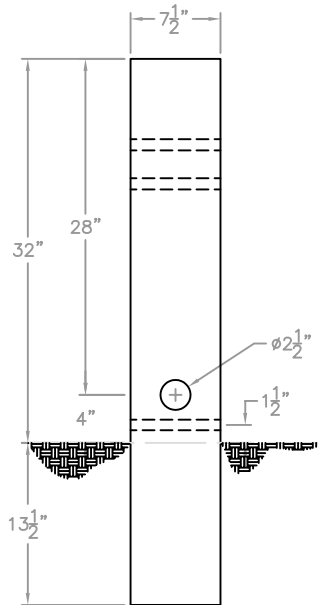
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MWT-4 R8.dwg

Scale:
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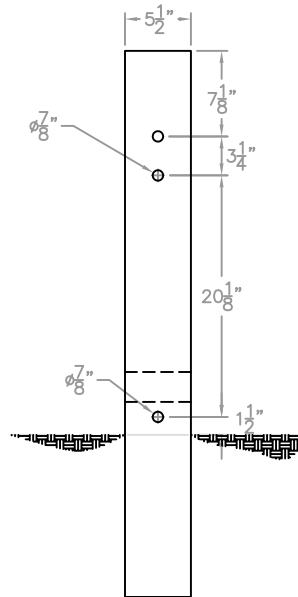
Sheet: 9 of 11
Date: 08/24/2007
By: GEP
Rev: EMA

BCT TIMBER POST

TOP VIEW



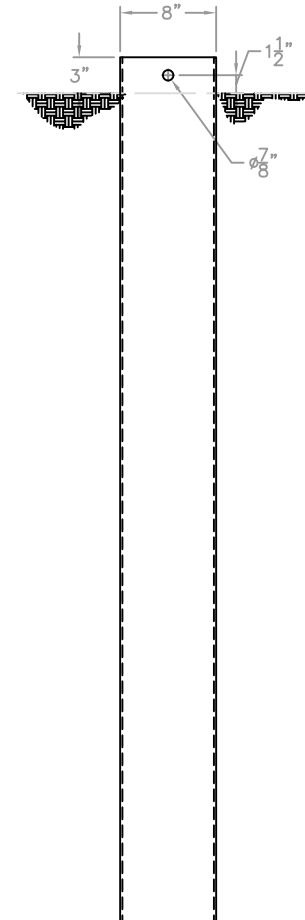
SIDE VIEW



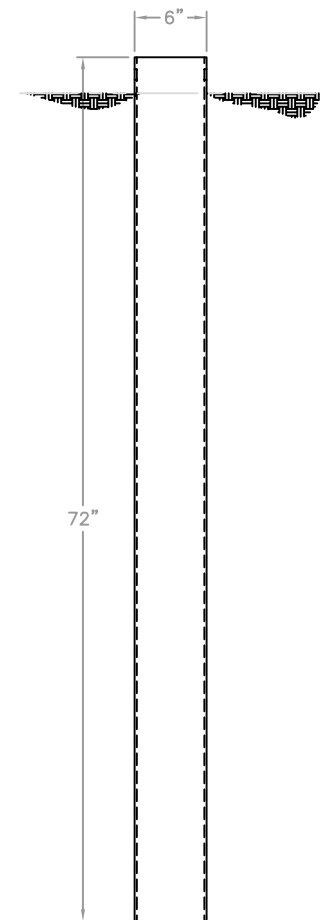
FRONT VIEW

FOUNDATION TUBE

TOP VIEW



SIDE VIEW



FRONT VIEW



**Midwest Roadside
Safety Facility**

**W-BEAM TO
STIFF BRIDGE TRANSITION**

BCT POST & TUBE DETAIL

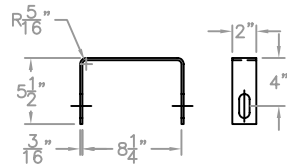
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MWT-4 R8.dwg

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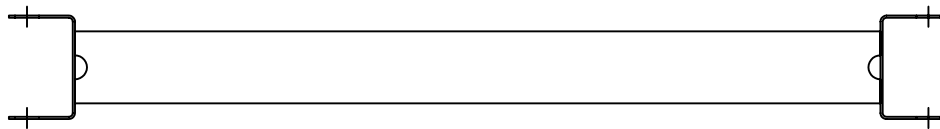
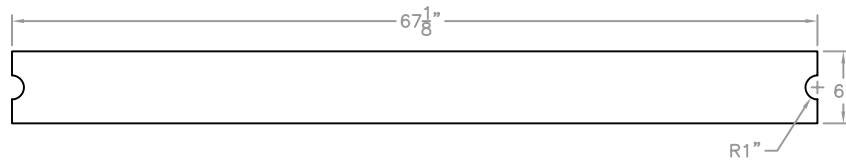
Sheet:
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Cable Strut

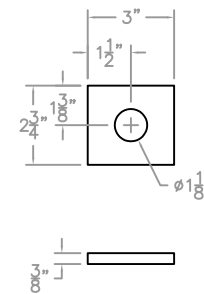
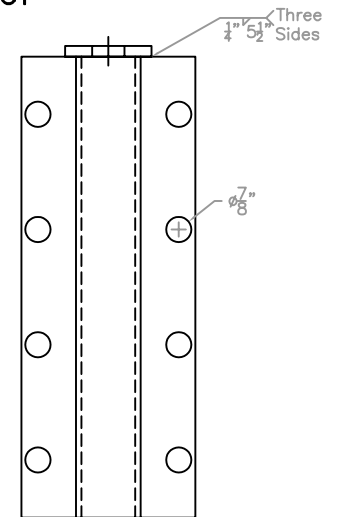
Yoke Details



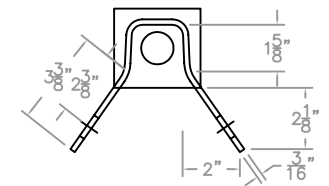
Strut Details



Anchor Bracket



End Plate



Bracket



Midwest Roadside Safety Facility

W-BEAM TO STIFF BRIDGE TRANSITION

CABLE STRUT & ANCHOR BRACKET

Drawing Name:
MWT-4 R8.dwg

Scale:
None

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Rev:	EMA