Notes: (1) Use 2 ft [610] of level NCHRP 350 soil fill behind posts before tapering downward.
(2) Post nos. 9–19 are located inside the critical impact region and should be placed in 3' [914] diameter holes. Place post nos. 1–8 and 20–29 in 2' [610] diameter holes.
Use any Number of Pieces to Fit the Length, with a Minimum 6" [152] Lap

3 13/16"[97] (Dimensioned To the Beginning of the Curb Radius)

3" [76]

5" [203]

Spaced 18" [457] o.c.

SECTION A-A

Notes:
1. Curb offset has a tolerance of 1 3/4" [44] located between the tangent edge of curb and front face of the guardrail.
2. Asphalt extends entire length of the system.
**PLAN VIEW**

- **6'-0" [1829]**
- **1" [25.4]**
- **3/4" [19.1]**
- **1" [25.4]**
- **1" [25.4]**
- **7 1/8" [181]**
- **7/8" [19.1]**
- **1'-2 1/4" [362]**

**W-Beam Blockout**

- **Part a2**
- **Alternate Blockout Option**

**SIDE VIEW**

- **6'-0" [1829]**
- **3/4" [19.1]**
- **3/4" [19.1]**
- **W6x8.5 [W152x12.6]**

**FRONT VIEW**

- **Line Post**
  - **Part a1**

- **6"x4"x14 1/4" [152x102x362] Blockout**
  - with **6"x8"x14 1/4" [152x203x362] Blockout**

**GENERAL**

- **SCALE: 1:20**
- **UNITS: In.[mm]**
- **DRAWN BY: MGS**
- **SHEET: 5 of 10**
- **DATE: 6/1/2010**
- **REV. BY:**
- **MGS with 6-in. Type B Curb**
- **Midwest Roadside Safety Facility**

**DWG. NAME:** MGSC-6_R5

**UNITS:** In.[mm]
ANCHOR CABLE BEARING PLATE

Part b9

BCT Anchor Cable Detail

DETAIL J
SCALE 1 : 5

1"-8UNC [M24] Stud
Threaded Entire Length

1 1/2" [38]
Standard Swaged Fitting

8" [203]
[102]

ANCHOR CABLE BEARING PLATE
Part b9

MGS with 6-in. Type B Curb

SIDE VIEW

FRONT VIEW

SCALE: 1:10

UNITS: In.[mm]

DATE:
6/1/2010

DRAWN BY:
EAJ/MJW

REV. BY:
RJT/CDB/
6'-3" [1905] W-Beam Section, 12 gauge [2.7]
Part a5

12'-6" [3810] W-Beam Section, 12 gauge [2.7]
Part a3

12 '-6" [3810] W-Beam Section, 12 gauge [2.7], End Section
Part a4

Note: (1) Part nos. a3 and a4 can also be 25' [7620] sections.
<table>
<thead>
<tr>
<th>Item No.</th>
<th>QTY.</th>
<th>Description</th>
<th>Material Specifications</th>
<th>Hardware Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>a1</td>
<td>25</td>
<td>W6 x 8.5 [W152x12.6] 72&quot; [1829] long</td>
<td>ASTM A36 Steel</td>
<td>–</td>
</tr>
<tr>
<td>a2</td>
<td>25</td>
<td>6 x 12 x 14 1/4&quot; [152 x 305 x 362] Blockout</td>
<td>SYP Grade No.1 or better</td>
<td>PDB10a-b</td>
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<tr>
<td>a3</td>
<td>12</td>
<td>12&quot;-6&quot; [3810] W-Beam MGS Section</td>
<td>12 gauge [2.7] AASHTO M180</td>
<td>RWM04a</td>
</tr>
<tr>
<td>a4</td>
<td>2</td>
<td>12&quot;-6&quot; [3810] W-Beam MGS End Section</td>
<td>12 gauge [2.7] AASHTO M180</td>
<td>RWM14a</td>
</tr>
<tr>
<td>a5</td>
<td>1</td>
<td>6'-3&quot; [1905] W-Beam MGS Section</td>
<td>12 gauge [2.7] AASHTO M180</td>
<td>RWM01a</td>
</tr>
<tr>
<td>a6</td>
<td>4</td>
<td>5/8&quot; [15.9] Dia. x 10&quot; [254] long Guardrail Bolt and Nut</td>
<td>ASTM A307</td>
<td>FBB03</td>
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<tr>
<td>a8</td>
<td>4</td>
<td>5/8&quot; [15.9] Dia. x 10&quot; [254] long Hex Head Bolt and Nut</td>
<td>ASTM A307</td>
<td>FBX16a</td>
</tr>
<tr>
<td>a9</td>
<td>16</td>
<td>5/8&quot; [15.9] Dia. x 1 1/2&quot; [38] long Hex Head Bolt and Nut</td>
<td>ASTM A307</td>
<td>FBX16a</td>
</tr>
<tr>
<td>a10</td>
<td>112</td>
<td>5/8&quot; [15.9] Dia. x 1 1/2&quot; [38] long Guardrail Bolt and Nut</td>
<td>ASTM A307</td>
<td>FBB01</td>
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<tr>
<td>a11</td>
<td>44</td>
<td>5/8&quot; [15.9] Dia. Flat Washer</td>
<td>ASTM F436 Grade 1</td>
<td>FWC16a</td>
</tr>
<tr>
<td>a12</td>
<td>25</td>
<td>16D Double Head Nail</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>b1</td>
<td>4</td>
<td>72&quot; [1829] Foundation Tube</td>
<td>ASTM A500 Gr. B</td>
<td>PTE06</td>
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<tr>
<td>b2</td>
<td>4</td>
<td>BCT Timber Post</td>
<td>SYP Grade No. 1 or better (No knots, 18&quot; [457] above or below ground tension face)</td>
<td>PDF01</td>
</tr>
<tr>
<td>b3</td>
<td>4</td>
<td>7/8&quot; [22.2] Dia. x 7 1/2&quot; [191] long Hex Head Bolt and Nut</td>
<td>ASTM A307</td>
<td>FBX22a</td>
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<tr>
<td>b4</td>
<td>8</td>
<td>7/8&quot; [22.2] Dia. Flat Washer</td>
<td>ASTM F436 Grade 1</td>
<td>FWC22a</td>
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<tr>
<td>b5</td>
<td>2</td>
<td>2 3/8&quot; [60] O.D.x 6&quot; [152] long BCT Post Sleeve</td>
<td>ASTM A53 Grade B Schedule 40</td>
<td>FMM02</td>
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<tr>
<td>b6</td>
<td>2</td>
<td>Strut and Yoke Assembly</td>
<td>ASTM A36 Steel Galvanized</td>
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<tr>
<td>b7</td>
<td>2</td>
<td>Anchor Bracket Assembly</td>
<td>ASTM A36 Steel Galvanized</td>
<td>FPA01</td>
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<tr>
<td>b8</td>
<td>2</td>
<td>BCT Cable Anchor Assembly</td>
<td>φ3/4&quot; [19] 6x19 IWRC IPS Galvanized Wire Rope</td>
<td>FCA01-02</td>
</tr>
<tr>
<td>b9</td>
<td>2</td>
<td>8&quot;x8&quot;x5/8&quot; [203x203x16] Anchor Bearing Plate</td>
<td>ASTM A36 Steel Galvanized</td>
<td>FPB01</td>
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<tr>
<td>c1</td>
<td>1</td>
<td>Curb</td>
<td>Concrete (s/g mix) – Min. 4000 psi [27.6 MPa] Comp. Strength</td>
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<tr>
<td>c2</td>
<td>49</td>
<td>#4 Rebar 12&quot; [305] Long</td>
<td>ASTM A615 Grade 40</td>
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<tr>
<td>c3</td>
<td>1</td>
<td>#4 Rebar 73&quot; [22.3 m] Long</td>
<td>ASTM A615 Grade 40</td>
<td>–</td>
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</tbody>
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