Plan View

12-Gauge W-Beam 7620mm
12-Gauge W-Beam 3810mm
12-Gauge W-Beam 3810mm
12-Gauge W-Beam 3810mm
12-Gauge W-Beam 3810mm
12-Gauge W-Beam 3810mm
12-Gauge W-Beam 3810mm
12-Gauge W-Beam 3810mm
12-Gauge W-Beam 7620mm

Front Elevation

W152X13.4 steel post 1829mm long with 152x305x362mm timber blockouts

BCT posts in 1829mm long foundation tubes ground line strut & BCT cable anchor.
### W-Beam Post
(Part a1)

- **Front View**
  - 32mm
  - 181mm
  - 152mm
  - 1829mm

- **Side View**
  - 32mm
  - 152mm

- **Top View**
  - 305mm
  - 181mm
  - 152mm
  - 1829mm

### W-Beam Spacer
(Part a2)

- **Front View**
  - 305mm
  - 152mm
  - 1829mm

### W-Beam Support Details

- **Top View**
  - 2-140x6mm Lag screws
  - 305mm
  - 19mm
  - 787mm
  - 813mm
  - 632mm

- **Side View**
  - 32mm
  - 19mm

### Notes:
1. Steel for wide-flange shall meet ASTM A36.
2. All holes drilled or punched to 19mm diameter.
3. All bolts are 16mm diameter.
4. Blockout dimension may vary.
5. Blockout material and grade: SYP Grade No.1 or Better
<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>b1</td>
<td>2</td>
<td>Foundation Tubes</td>
<td>PTE05</td>
</tr>
<tr>
<td>b2</td>
<td>2</td>
<td>BCT Timber Post</td>
<td>PDF01</td>
</tr>
</tbody>
</table>

**FOUNDATION TUBE**  
(Part b1)

**BCT TIMBER POST**  
(Part b2)

**NOTE:**
1. BCT Post material and grade: SYP Grade No. 1 or Better

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Scale: 1:16

Date: 8/29/2006

Prepared by: KAP/RKF

Midwest Roadside Safety Facility

NCHRP 22-14(2)
Midwest Guardrail System with Dodge Quadcab
BCT Post & Tube Detail

2214MG-2 R9.dwg
Anchor Cable
(Part d1)

1982mm
1219mm

Ø25mm Washer
Ø25mm Heavy Hex Nut

Ø19mm 6x19 steel cable

Ø25mm Washer
Ø25mm Heavy Hex Nut

Bearing Plate
(Part d2)

203mm 16mm

127mm

Ø29mm

381mm 38mm

178mm

32mm 127mm

25mm-8 UNC

Standard Swage Fitting and Stud
(Stud Threaded Entire Length)