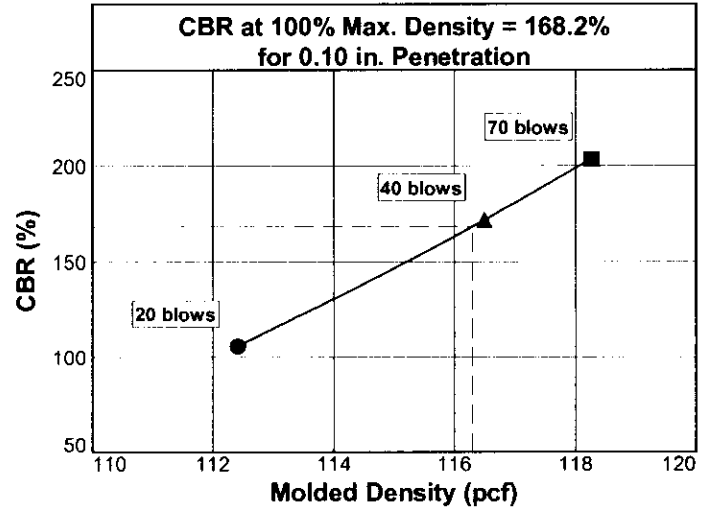
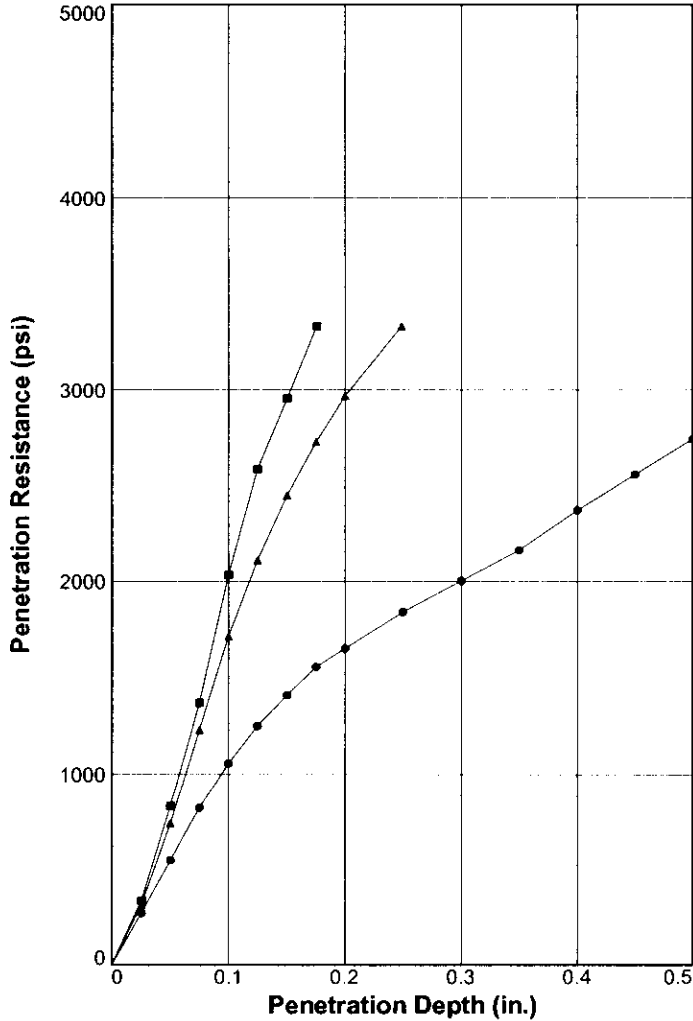


# BEARING RATIO TEST REPORT

## AASHTO T 193-99



|   | Molded        |                       |              | Soaked        |                       |              | CBR (%)     |                         | Linearity Correction (in.)  | Surcharge (lbs.) | Max. Swell (%) |
|---|---------------|-----------------------|--------------|---------------|-----------------------|--------------|-------------|-------------------------|-----------------------------|------------------|----------------|
|   | Density (pcf) | Percent of Max. Dens. | Moisture (%) | Density (pcf) | Percent of Max. Dens. | Moisture (%) | 0.10 in.    | 0.20 in.                |                             |                  |                |
| 1 ○   | 112.4         | 96.6                  | 8.8          | 112.4         | 96.7                  | 9.6          | 105.7       | 110.1                   | 0.000                       | 10               |                |
| 2 △   | 116.5         | 100.2                 | 8.7          | 116.5         | 100.2                 | 9.0          | 171.6       | 197.7                   | 0.000                       | 10               |                |
| 3 □   | 118.3         | 101.7                 | 8.8          | 118.3         | 101.7                 | 8.9          | 203.3       |                         | 0.000                       | 10               |                |
| <b>Material Description</b>                     |               |                       |              |               |                       |              | <b>USCS</b> | <b>Max. Dens. (pcf)</b> | <b>Optimum Moisture (%)</b> | <b>LL</b>        | <b>PI</b>      |
| Calcium Sulfate (Aka Synthetic Gypsum, GS-100S) |               |                       |              |               |                       |              |             | 116.3                   | 9.2                         |                  |                |

**Project No:** 12-C-0452  
**Project:** Laboratory Testing  
**Sample Number:** CBR-1  
**Date:** March 27, 2013

**Test Description/Remarks:**

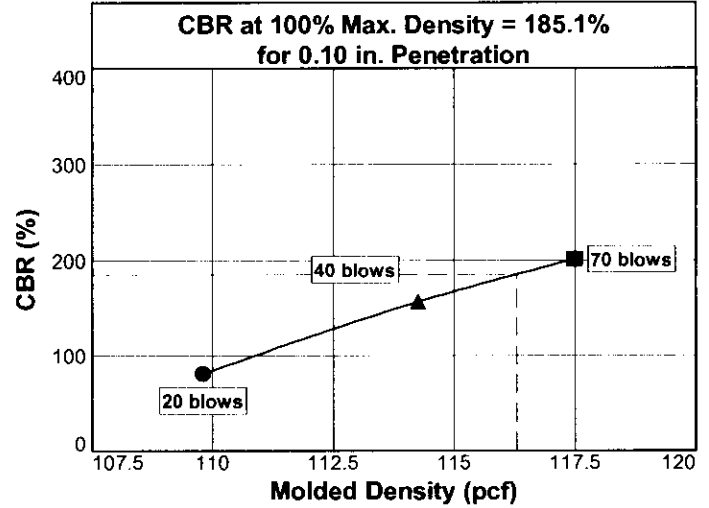
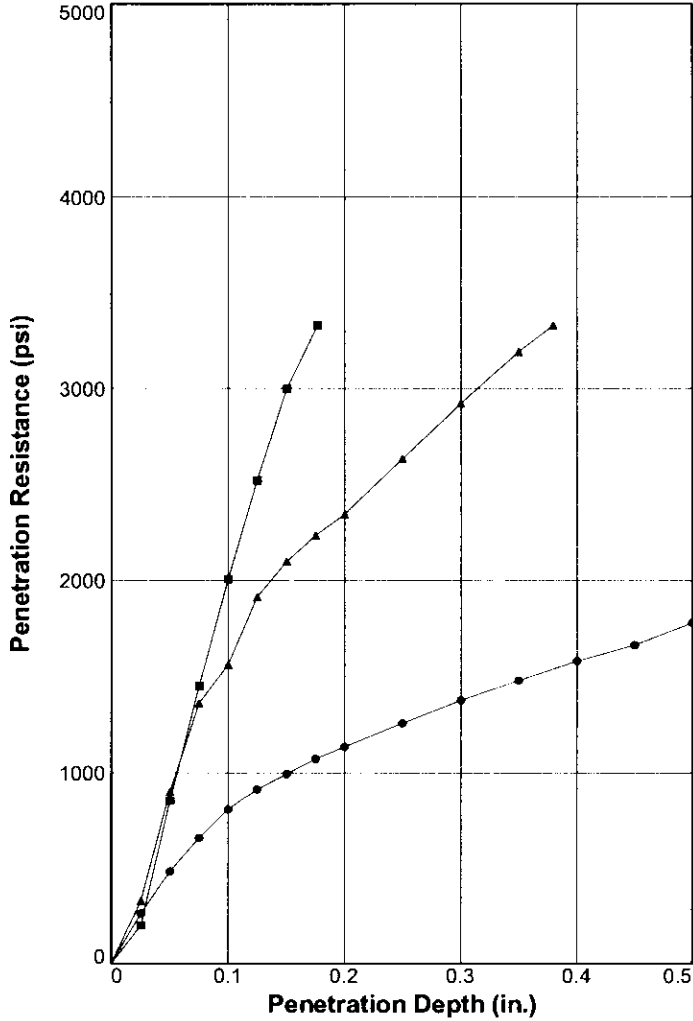
Tested By: BM  
 Date: 3-18-13  
 Checked By: GEV  
 Date: 3-27-13



Figure 1

# BEARING RATIO TEST REPORT

## AASHTO T 193-99



|   | Molded        |                       |              | Soaked        |                       |              | CBR (%)     |                         | Linearity Correction (in.)  | Surcharge (lbs.) | Max. Swell (%) |
|---|---------------|-----------------------|--------------|---------------|-----------------------|--------------|-------------|-------------------------|-----------------------------|------------------|----------------|
|   | Density (pcf) | Percent of Max. Dens. | Moisture (%) | Density (pcf) | Percent of Max. Dens. | Moisture (%) | 0.10 in.    | 0.20 in.                |                             |                  |                |
| 1 ○   | 109.8         | 94.4                  | 9.0          | 109.8         | 94.4                  | 10.1         | 80.3        | 75.7                    | 0.000                       | 10               |                |
| 2 △   | 114.3         | 98.3                  | 8.9          | 114.3         | 98.2                  | 9.4          | 156.3       | 156.3                   | 0.000                       | 10               |                |
| 3 □   | 117.5         | 101                   | 8.9          | 117.5         | 101                   | 8.9          | 200.8       |                         | 0.000                       | 10               |                |
| <b>Material Description</b>                     |               |                       |              |               |                       |              | <b>USCS</b> | <b>Max. Dens. (pcf)</b> | <b>Optimum Moisture (%)</b> | <b>LL</b>        | <b>PI</b>      |
| Calcium Sulfate (Aka Synthetic Gypsum, GS-100S) |               |                       |              |               |                       |              |             | 116.3                   | 9.2                         |                  |                |

**Project No:** 12-C-0452  
**Project:** Laboratory Testing  
**Sample Number:** CBR-2  
  
**Date:** March 27, 2013

**Test Description/Remarks:**

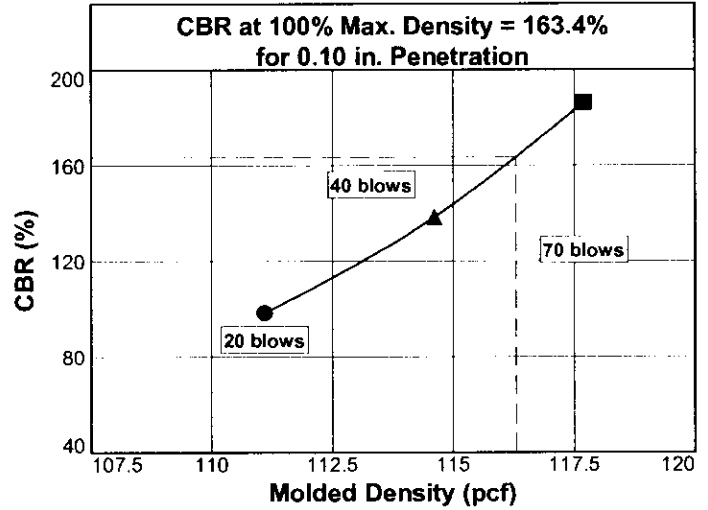
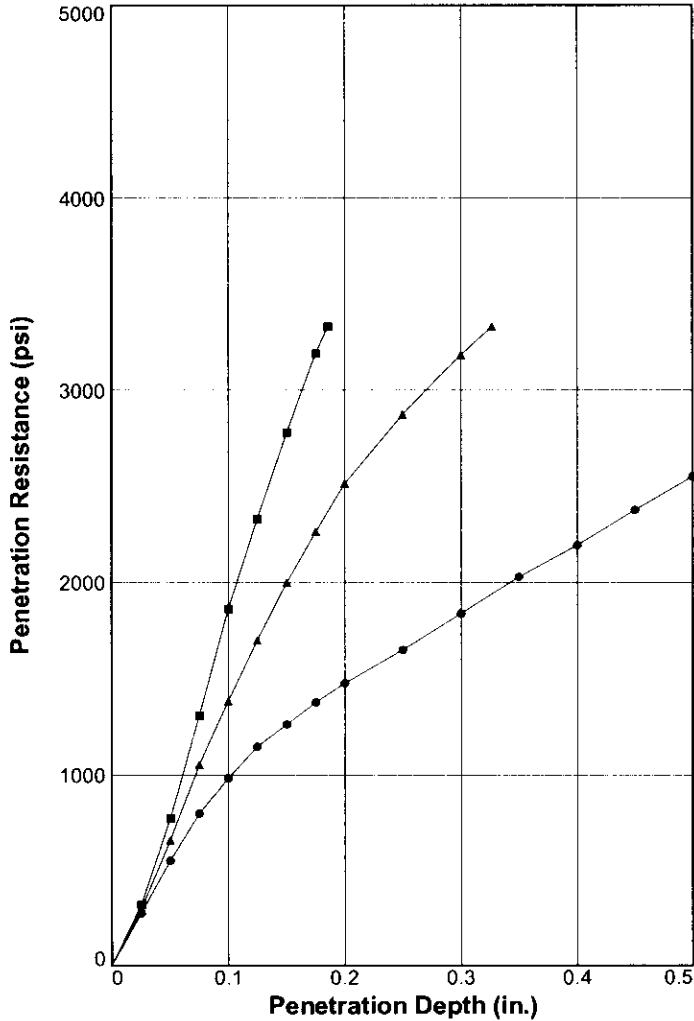
Tested By: Bryan McClary  
 Date: 3-18-13  
 Checked By: GEV  
 Date: 3-27-13



Figure 2

# BEARING RATIO TEST REPORT

## AASHTO T 193-99



|   | Molded        |                       |              | Soaked        |                       |              | CBR (%)  |                  | Linearity Correction (in.) | Surcharge (lbs.) | Max. Swell (%) |
|---|---------------|-----------------------|--------------|---------------|-----------------------|--------------|----------|------------------|----------------------------|------------------|----------------|
|   | Density (pcf) | Percent of Max. Dens. | Moisture (%) | Density (pcf) | Percent of Max. Dens. | Moisture (%) | 0.10 in. | 0.20 in.         |                            |                  |                |
| 1 ○   | 111.1         | 95.5                  | 9.6          | 111.1         | 95.5                  | 9.9          | 98.2     | 98.4             | 0.000                      | 10               |                |
| 2 △   | 114.6         | 98.5                  | 10.0         | 114.6         | 98.5                  | 8.9          | 138.3    | 167.8            | 0.000                      | 10               |                |
| 3 □   | 117.7         | 101.2                 | 10.2         | 117.7         | 101.2                 | 8.5          | 186.2    |                  | 0.000                      | 1                |                |
| Material Description                            |               |                       |              |               |                       |              | USCS     | Max. Dens. (pcf) | Optimum Moisture (%)       | LL               | PI             |
| Calcium Sulfate (Aka Synthetic Gypsum, GS-100S) |               |                       |              |               |                       |              |          |                  |                            |                  |                |

**Project No:** 12-C-0452  
**Project:** Laboratory Testing  
**Sample Number:** CBR-3  
**Date:** March 27, 2013

**Test Description/Remarks:**

Tested By: Bryan McClary  
 Date: 3-18-13  
 Checked By: GEV  
 Date: 3-27-13



Figure 3