



BASELINE/40TH PARALLEL MEMORIAL SURVEY MARKER Boulder, Colorado



In 1859, “the survey crew navigated scorching plains and rugged mountainous terrain, traversing a distance of 345 miles in 55 days.”

**Started as COB/RTD bus stop improvement project,
slated for 2006.**

Christian Muller conceived world map and Baseline stripe idea.



(Left to right: Alex May, PE; Jason Emery, PLS; Christian Muller, Artist)

Location

**40th Parallel Marker is adjacent to
Guaranty Bank at 2460 Baseline Road
(BaseMar Shopping Center), Boulder, CO.**





Stone cutting, Spring 2007



Alex May and Jason Emery considered a surveyor's commemorative.

Preliminary design by Christian. A large boulder was suggested and the design team discovered a wonderful specimen on City mountain property.

Christian's Epiphany: Cut & off-set rock halves



**Installation underway,
October 2007**



Budget Issues

Alex proposed a public/private partnership and fundraising was discussed.

▶ **Early commitment from Trimble got it going...**

Other contributors:

City of Boulder, Transportation

Basemar Center

Boulder Arts Commission

Boulder Land Consultants, Inc.

ColoProperty.com®

Drexel Barrell & Co

Jason Emery, PLS, Boulder County Surveyor

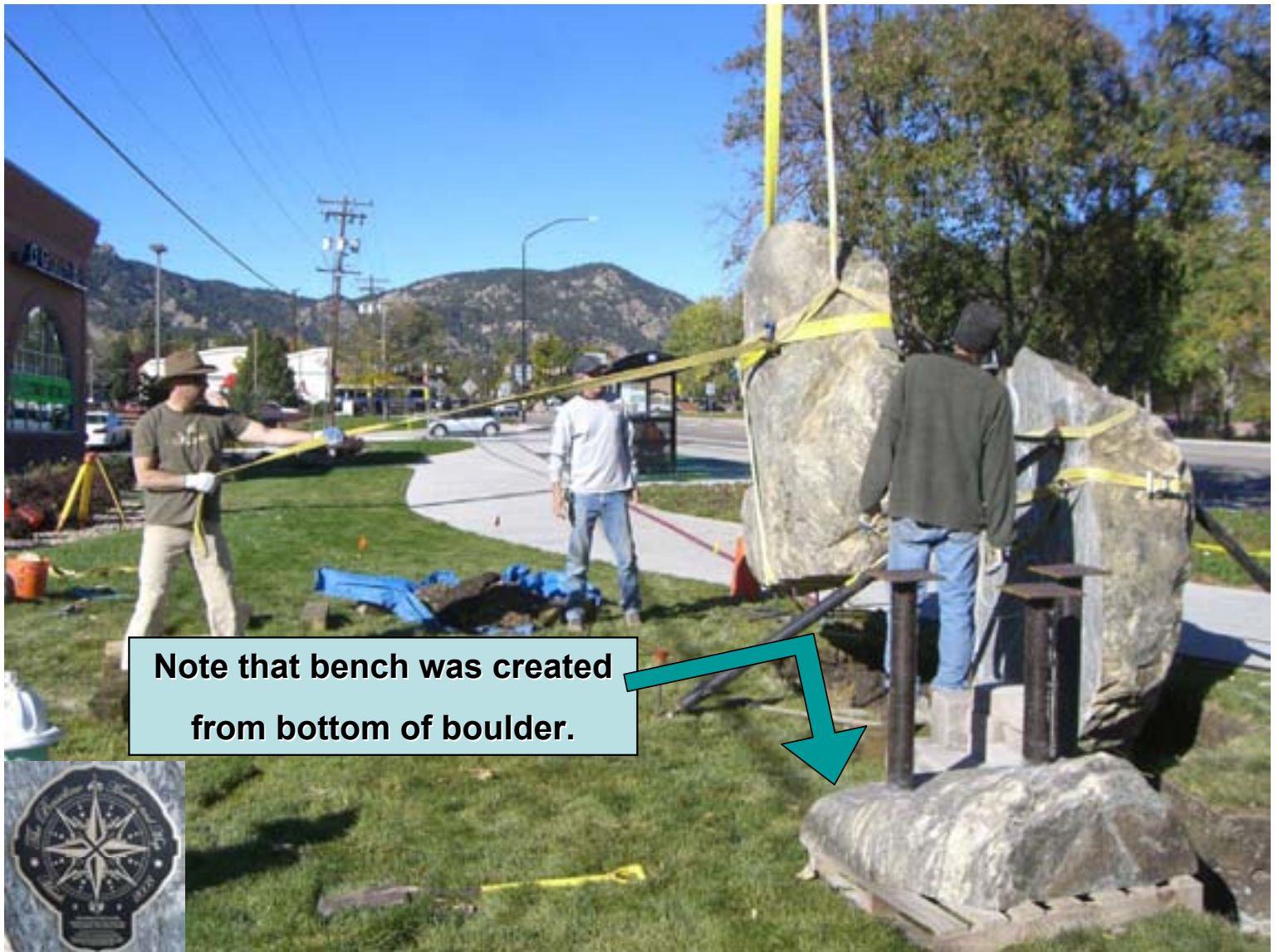
Flatirons Surveying & Engineering

J.B. Guyton, PLS, President, PLSC

Professional Land Surveyors of Colorado







Note that bench was created from bottom of boulder.





Project Design Enhancements:

- **Bench with marker to NGS standards**
- **Night lighting**
- **Donor plaque changed to two piece design**





Surveyor image
created by
Colorado artist
Gaynor Nelson

Inscription
composed by
Jason Emery, PLS



Inscription

In July 1859, Government surveyors, Withrow and Todd, were charged with establishing the line demarcating Nebraska Territory on the north, and Kansas Territory on the south.

This line was to follow the parallel of latitude 40° North, also known as the “Base Line”, and was to terminate at “the summit of the Rocky Mountains”, then the easterly line of Utah Territory.

The survey crew navigated scorching plains and rugged mountainous terrain, traversing a distance of 345 miles in 55 days.

This stone marker, set along the “Baseline” as surveyed in 1859, celebrates this historic survey party as well as all surveyors whose remarkable work aided in the organized westward expansion of the United States.





**Stone memorial
is set along the
“Base Line” as
surveyed in
1859...**

**Actual location
of 40th Parallel is
approximately
30’ south**





**Brass “Todd & Withrow”
marker set into bench,
constructed to federal
(NGS) specifications.**



Flatirons Surveying (J.B. Guyton,
PLS) to perform bluebooking
using OPUS-DB





Designers & Installers:

Christian Muller, Leap Year, Inc.

Jason Emery, PLS

Carol Adams, Studio Terra, Inc.

Construction Donations:

NORAA Concrete Construction Corp.

Bowman Custom Landscaping, Inc.

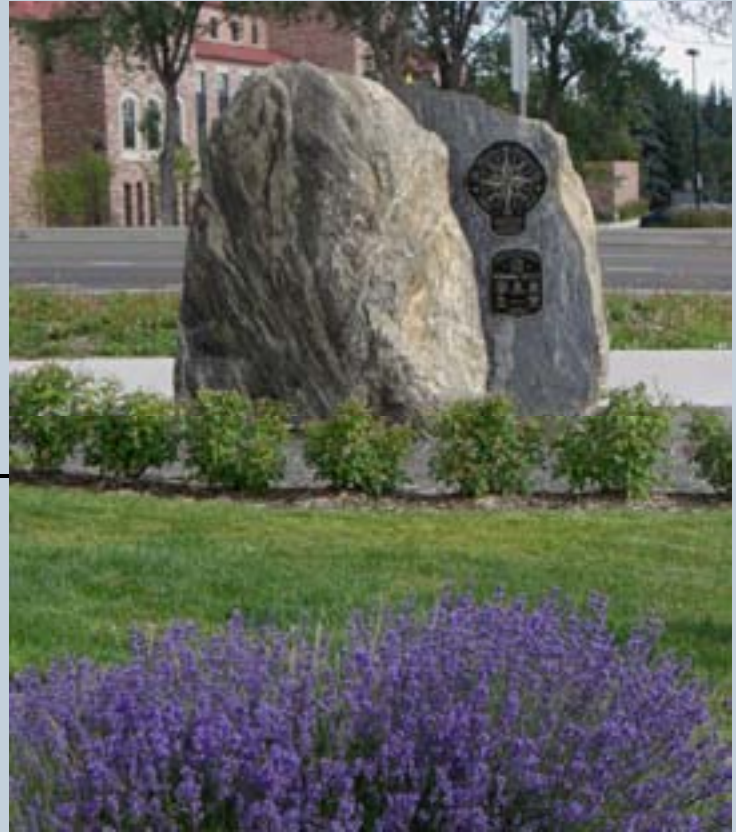
W.L. Contractors, Inc.



Our Thanks

to all contributors for
making this become a reality

What's Next



**Boulder Sesquicentennial Celebration
1859-2009**