

Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials

LUND
PARTNERSHIP
12265 W. Bayaud Avenue, Suite 130
Lakewood, Colorado 80228
P: 303.989.1461 F: 303.989.4094
CIVIL ENGINEERING
& SURVEYING

Project Control Diagram			
Title Sheet			
Project Number: STA 2254-085			
Project Location: I-225 & I-25 TO YOSEMITE			
CITY AND COUNTY OF DENVER			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
19187	04-16-2013	3.01 OF 3.03	3.01

SHEET NO.	INDEX OF SHEETS
3.01	(1) Title Sheet
3.02	(1) Coordinate Tables
3.03	(1) Plan Sheets
(3) Total Sheets	

DEPARTMENT OF TRANSPORTATION
STATE OF COLORADO

PROJECT CONTROL DIAGRAM
PROJECT NO. STA 2254-085
Interstate Highway 225 MP 0.00 to 1.33
Sections 4-8-9
Township 5 South, Range 67 West
of the 6th Principal Meridian
City and County of Denver

BASIS OF BEARINGS: Bearings used in the calculations of coordinates are based on a grid bearing of N 74°23'46" E from CM-MP 200.18 to CM-MP 1.38. Both monuments are CDOT Type II, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Positioning System (GPS) survey base on the Colorado High Accuracy Reference Network (CHARN). Said grid bearing is NAD 83 (2011) Colorado State Plane Central Zone 502.

BASIS OF ELEVATION: Project elevations are based on the City and County of Denver Bench Mark No. 321 B, a brass bench mark disk set in the northeast quadrant of Tamarac Dr. & Quincy Ave., having a published NAVD 88 elevation of 5555.05 ft. Differential levels were run through the project control points shown herein.

COORDINATE DATUM: Project coordinates are based on a NAD 83 (2011) user defined Oblique Mercator Projection. Projection parameters are shown below:

Projection = User Defined Oblique Mercator
Zone = TREX
Latitude of Central point = 39° 38' 20.80471" N
Longitude of Central point = 104° 54' 49.02599 W
Central Point False Northing = 656166.667
Central Point False Easting = 984250.000
Azimuth of Rotated Meridian = + 00° 22' 11.369100"
Scale along Rotated Meridian = 1.000263782
Units are US Survey Feet

Note: User defined projection was utilized in order to mimic the TREX project and NAD 1983 (1992) coordinates.

The horizontal positional accuracy tolerance for this project control diagram meets the CDOT Class "A" primary tolerance as defined in the CDOT survey manual chapter 5, paragraph 5.5.2 and 5.5.3.

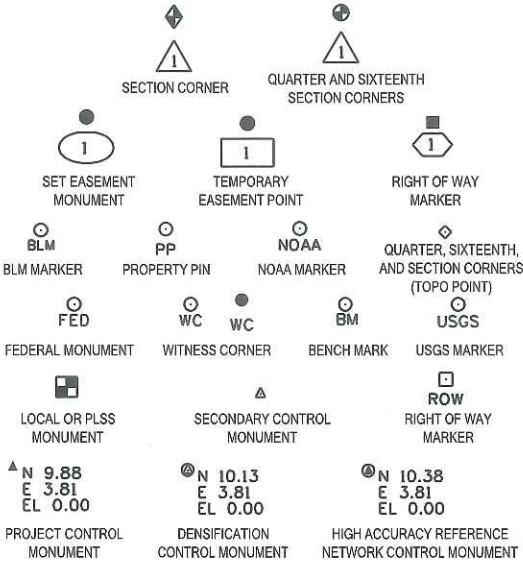
The vertical accuracy tolerance for this project control diagram meets the minimum vertical accuracy tolerance as defined in the CDOT survey manual chapter 5, paragraph 5.8.6.

The CDOT survey manual can be viewed at
[HTTP://WWW.COLORADODOT.INFO/BUSINESS/MANUALS/SURVEY](http://www.coloradodot.info/business/manuals/survey)

SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, Geoffrey F. Stephenson, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that this Project Control Diagram was prepared and the field survey it represents was performed under my responsible charge, and based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by the Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 23521



Note: For a complete listing of symbolology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July 2012. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.



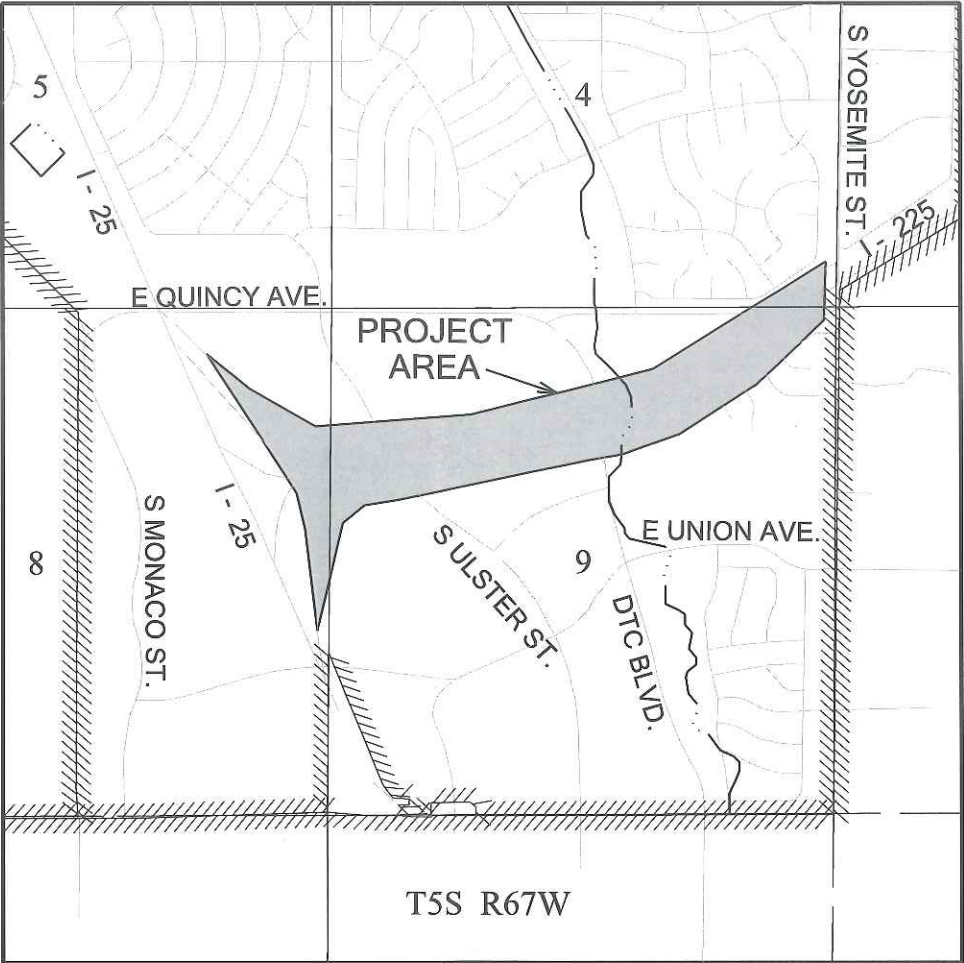
Typical Control Monument Cap
Not to Scale

▲ CM-MP - Control Point Monuments set by CDOT. They are CDOT Type 2 monuments, a 3 1/4" dia. aluminum control monument cap (as shown) on a 3' x 3/4" dia. aluminum security rod on a 3' x 3/4" dia. smooth aluminum rod.

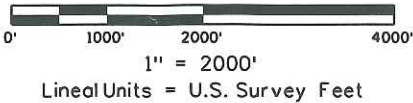
General Notes:

- This Project Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
- This control diagram is subject to change and may not be the most current set. It is the user's responsibility to verify with CDOT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.
- Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.

NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

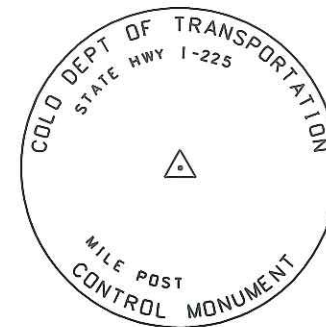


PROJECT LOCATION MAP



* DENOTES MONUMENT NOT SHOWN GRAPHICALLY ON PLAN SHEETS

PROJECT CONTROL POINT COORDINATE TABLE				
Point Name	Project Coordinates		Elev (ft) (NAVD 88)	Description
	Northing (ft)	Easting (ft)		
HILLCREST	656166.67	984250.00	5625.87	FOUND STAINLESS STEEL ROD IN MONUMENT BOX (PID AE5257)
K406	666493.81	984438.95	5487.78	FOUND STAINLESS STEEL ROD IN MONUMENT BOX (PID KK1495)
WEBB	661604.32	1000287.04	5547.23	FOUND 3 1/2" BRASS CAP IN CONCRETE STAMPED IN PART "WEBB-HORIZONTAL CONTROL MARK- 1996" (PID AE5254)
CM-MP 0.78	655102.43	989768.54	5551.97	SET CDOT TYPE 2 CONTROL MONUMENT STAMPED IN PART "STATE HWY 225 - MILE POST 0.78 - CONTROL MONUMENT"
CM-MP 0.79	654747.32	989945.53	5554.68	SET CDOT TYPE 2 CONTROL MONUMENT STAMPED IN PART "STATE HWY 225 - MILE POST 0.79 - CONTROL MONUMENT"
CM-MP 1.38	656445.56	992182.20	5617.72	SET CDOT TYPE 2 CONTROL MONUMENT STAMPED IN PART "STATE HWY 225 - MILE POST 1.38 - CONTROL MONUMENT"
CM-MP 200.18	654763.94	986160.93	5653.98	SET CDOT TYPE 2 CONTROL MONUMENT STAMPED IN PART "STATE HWY 25 - MILE POST 200.18 - CONTROL MONUMENT"
TREX #8	656626.47	992342.98	5623.32	FOUND 2" ALUMINUM CAP ON #5 REBAR STAMPED IN PART "LPI 8"



Typical CDOT Type 2
3 1/4" Diameter Aluminum
Survey Control Monument Cap
Not to Scale

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