



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

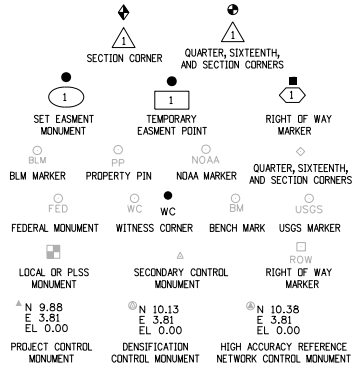
Project Control Diagram			
Title Sheet			
Project Number: STA 0243-087			
Project Location: US24 ElPaso-Elbert CI East Part 2			
Project Code	Last Mod. Date	Subset	Sheet No.
20856	11-16-16	3.01 of 3.02	3.01

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

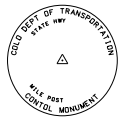
PROJECT CONTROL DIAGRAM

State Highway 24 MP 353.34 to 354.34
Section 35
Township 10 South, Range 60 West
of the 6th Principal Meridian
County of Elbert

SHEET NO.	INDEX OF SHEETS
3.01-3.01	(1) Title Sheet
3.02-3.02	(1) Coordinate Tables and Plan Sheet
	(2) Total Sheets



Note: For a complete listing of symbology 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.

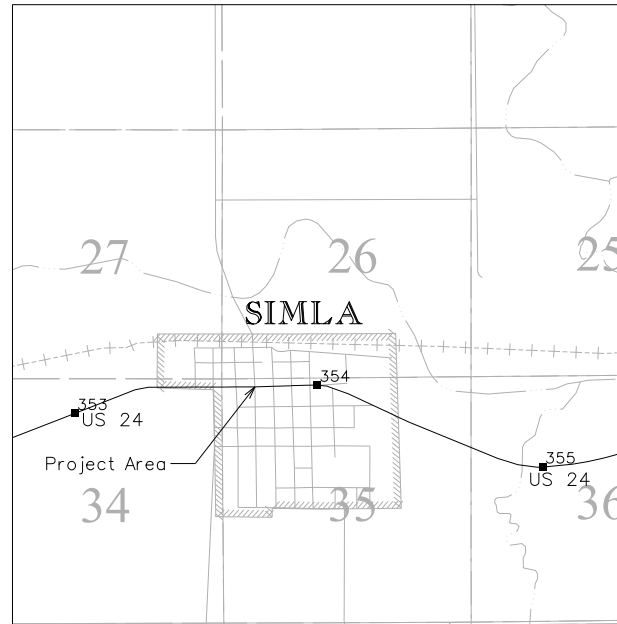


Typical Control Monument Cap
Not to Scale

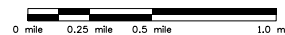
▲ CM-MP - Control Point Monuments set by CDOT. They are CDOT Type 2 monuments, a 3 3/4" dia. aluminum control monument cap (as shown) on a 3' x 3/4" dia. aluminum security rod on a 3' x 3/4" dia. smooth aluminum rod.

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 plan set 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.



PROJECT LOCATION MAP



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of S 93°16' 37" E from the Control Monument "CM 5370" (CDOT Type 2 Monument, MP 353.70), Section 35, Township 10 South, Range 60 West, Sixth P.M. and the Control Monument "CM 5379" (CDOT Type 2 Monument, MP 353.79), Section 35, Township 10 South, Range 60 West, Sixth P.M. as obtained from a Global Positioning System (GPS) survey based on the National Spatial Reference System (NSRS).

Basis of Elevations: Project elevations are GPS derived, using GEOID 12, based on a NAVD 88 elevation of 1820.123m on NGS Horizontal Control Disk "SWAYNE" (Stamped "SWAYNE 1996" NGS cap set in a concrete post).

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD 83(2011) coordinates. The project seed point (CM 5379) coordinates are: Northing = 451091.896m, Easting = 1036840.922m, and Elevation = 1800.739m. The ground scale factor used to modify the coordinates is 1.00034580316768. Project Coordinates are truncated by 400,000m in the Northing and 1,00,000m in the Easting.

To get from Project to State Plane coordinates: convert project coordinates to metric, add the truncation, subtract the seed point northing and easting, divide by the ground scale factor, then add the seed point northing and easting.

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.

SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, Mark Leroy Angell, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation 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 Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 38340



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Coordinate Tables and Plan Sheet			
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Project Location: US24 ElPaso-Elbert ClEast Part 2			
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20856	11-16-16	3.02 of 3.02	3.02



CHARN GEODETIC COORDINATE TABLE

(adjusted field data) (meters)

NAME	COORDINATES NAD 83(2011)		ELLIPHS. HEIGHT	MAPPING ANGLE	SCALE	NAD 83(2011) ZONE 0501		DESCRIPTION
	LATITUDE	LONGITUDE				NORTHING	EASTING	
RAMAH	39°0'00.44:06" N	104°10'09.52466" W	1853.027	0°50'21"	0.999935948	448116.357	1029473.281	USGSDisk on Steel Rod "RAMAH ET 1970"
SWAYNE	39°0'42.51784" N	104°03'07.41335" W	1801.211	0°54'48"	0.999936024	449568.678	1039590.786	NGS Disk in Conc Mon "SWAYNE 1996"



PROJECT COORDINATE SUMMARY TABLE (feet)

NAME	PROJECT COORDINATES		ELEV. (NAVD 88)	DESCRIPTION
	NORTHING	EASTING		
CM 5370	167651.864	120382.194	5973.70	CDOT Type 2 Monument (MP 353.70)
CM 5379	167623.996	120868.926	5969.66	CDOT Type 2 Monument (MP 353.79)
RAMAH	157858.372	96688.566	6140.60	USGS Disk on Steel Rod "RAMAH ET 1970"
SWAYNE	162624.844	129893.891	5971.52	NGS Disk in Conc Mon "SWAYNE 1996"



GEODETIC COORDINATE TABLE

(adjusted field data) (meters)

NAME	COORDINATES NAD 83(2011)		ELLIPHS. HEIGHT	MAPPING ANGLE	SCALE	NAD 83(2011) ZONE 0501		DESCRIPTION
	LATITUDE	LONGITUDE				NORTHING	EASTING	
CM 5370	39°08'33.66453" N	104°05'07.09330" W	1801.974	0°53'32"	0.999936173	451100.387	1036692.617	CDOT Type 2 Monument (MP 353.70)
CM 5379	39°08'33.31426" N	104°05'00.92353" W	1800.739	0°53'36"	0.999936172	451091.896	1036840.922	CDOT Type 2 Monument (MP 353.79)

SECONDARY PROJECT CONTROL (feet)

CM 5467	166082.360	125299.190	5934.63	CDOT Type 2 Monument (MP 354.67)
CM 5495	165705.372	126704.443	5925.35	CDOT Type 2 Monument (MP 354.95)



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