



DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO CONTROL SURVEY DIAGRAM

Project C 119A-042
S.H. 119 & S.H. 279 MP 6.10 to MP 7.10
Section 7, T. 3 S., R. 72 W.
GILPIN COUNTY, COLORADO

PROJECT COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT NAME	PROJECT COORDINATES		ELEV(m)	DESCRIPTION
	NORTH (m)	EAST (m)		
SH 119 CM-MP 6.9	21396.989	306202.158	2440.412	CDOT TYPE 2 CONTROL MONUMENT
SH 119 CM-MP 7.1	21485.455	306032.406	2446.603	CDOT TYPE 2 CONTROL MONUMENT
SH 119 CM-MP 7.31	21702.436	305757.471	2454.114	CDOT TYPE 2 CONTROL MONUMENT
SH 119 CM-MP 7.6	22005.839	305365.780	2466.018	CDOT TYPE 2 CONTROL MONUMENT



CM-MP - Control Monuments were set by CDOT on a previous project. They were CDOT Type 2 monuments, a 3-1/4" dia. aluminum control monument cap (as shown) on a 3" X 3/4" dia. finned aluminum security rod on a 3" x 3/4" dia. smooth aluminum rod.

CONSTRUCTION SURVEYING AND MONUMENTATION REQUIREMENTS:

- 1). This Control Survey Diagram represents the horizontal and vertical control for the project established by the Division. It is possible that some of the survey control monuments listed have been disturbed or obliterated. It is the Contractor's responsibility to verify the existence and stability of the control monuments before submitting a bid price.
- 2). All Type 1 and Type 2 monuments shall be set flush with the ground. Witness posts shall be installed 1 foot from and facing all Type 1 and Type 2 monuments, or as directed by the Project Engineer.
- 3). Installation of Type 3 and Type 3-A monuments shall be completed in the same day that installation is commenced. Under no circumstances shall holes in the roadway be left open overnight.
- 4). When installing Type 3-A monuments, the aluminum access cover shall be positively secured to the PVC pipe with screws or glue. The access cover shall be caulked with asphalt caulking between the cover and the edges of the roadway surface to provide a positive moisture barrier around the access cover.

- 5). Control survey procedures, statistical analysis, and accuracy obtained for horizontal and vertical control shall be documented in the field book.
- 6). Legible copies of the field books shall be submitted to the Project Engineer for review on a monthly basis.
- 7). It is ultimately the prime Contractor's responsibility to insure that these requirements, as well as any contained in the CDOT specifications, project special provisions, and CDOT Survey Manual are fulfilled under this contract.
- 8). The minimum staking intervals for each item are described on the plans or in the CDOT Survey Manual. If the contractor wishes to reduce the minimum intervals, a Contract Modification Order must be negotiated and the cost of the item reduced accordingly.

BASIS OF BEARINGS: Bearings used in the calculation of coordinates are based on a grid bearing of S 51°43'09" E from S.H. 119 CM-MP 7.31 to S.H. 119 CM-MP 7.1.

BASIS OF ELEVATIONS: Project is based on a U.S. Geological Survey (USGS) benchmark D 1 1940 a 3 inch brass cap set in concrete post with a project elevation of 2455.434 meters. D 1 1940 is a part of Colorado Line 72.

NOTE: Refer to NEW-629-1 SURVEY MONUMENTS of the STANDARD PLANS, COLORADO DEPARTMENT OF TRANSPORTATION, M & S STANDARDS MARCH 15, 1996 for survey monument descriptions. Refer to M-100-1 STANDARD SYMBOLS of the STANDARD PLANS, COLORADO DEPARTMENT OF TRANSPORTATION, M & S STANDARDS NOVEMBER 1992 for standard symbol definitions.

NOTE: This control survey is for the use of Colorado Department of Transportation personnel. The survey is not a complete boundary survey and does not subdivide land. Title policy, title commitment, and title research were not part of this control survey, therefore, easements, rights, and restrictions of record are not shown. The verification of the physical evidence with relation to easements, rights of way, property boundaries, and restrictions, as described in the instruments of record, was not included in this control survey.

NOTE: 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

SURVEYORS STATEMENT: I, Joseph P. Conway, a Professional Land Surveyor in the State of Colorado, hereby state that this Control Survey Diagram was prepared under my supervision this _____ day of _____, from a field survey performed under my supervision from April 14, 1992 to March 30, 1996, and checking for and on behalf of the Department of Transportation, State of Colorado, and is not a Land Survey Plat or Right-of-Way Survey Plat and to the best of my knowledge and belief this control survey, as shown, meets the minimum horizontal control tolerances of a Type B Survey. From the date of the statement shown.

Joseph P. Conway L.S. 25618

Computer File Information				Sheet Revisions		Colorado Department of Transportation Region 1 Construction 18500 E Colfax Avenue Aurora, Colorado 80011 Phone: 303-757-9744 FAX: 303-757-9746 Survey Coordinator JPC	As Constructed		CONTROL SURVEY DIAGRAM	
Creation Date:	07/24/96	Initials:	LCY	(R-X)			No Revisions:			Project C 119A-042
Last Modification Date:	07/24/96	Initials:	LCY	(R-X)			Revised:			11292
Full Path:	C:\WRKDSK\91054\			(R-X)			Void:			Sheet Number
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Acad Ver.	R12	Scale:	1:1	Units:	Metric					

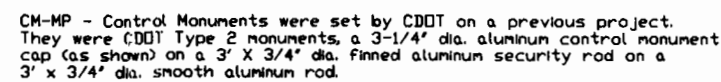


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