



DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO CONTROL SURVEY DIAGRAM

Project STR 0061-059
6 & 119 MP 259.0 to MP 260.0
SECTION 36, T. 3 S., R. 72 W., 6th P.M.
JEFFERSON COUNTY, COLORADO

GPS COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT NAME	GEOIDIC COORDINATES NAD-83(92) (CHARN)		ELEVATION (DAVD '86)m	MAPPING ANGLE	SCALE	NAD 83(92) ZONE 0502		DESCRIPTION
	LATITUDE(N)	LONGITUDE(W)				NORTHING (m)	EASTING (m)	
SH 119 CM-MP 0.1 GPS PROJECT STATION	38°44'56.22519"	105°23'57.98829"	2109.957	0°03'46.328"	0.999999793	517480.348	923020.770	Set: CDOT Type 2 Control Monument
SH 119 CM-MP 0.2 GPS PROJECT STATION	38°45'00.24847"	105°23'55.87710"	2114.845	0°03'49.848"	1.000000014	517584.486	923070.417	Set: CDOT Type 2 Control Monument
SH 119 CM-MP 0.3 GPS PROJECT STATION	38°45'03.50037"	105°23'58.29031"	2117.617	0°03'49.387"	1.000000193	517584.789	923080.489	Set: CDOT Type 2 Control Monument
SH 119 CM-MP 0.4 GPS PROJECT STATION	38°45'07.57899"	105°23'58.18605"	2122.121	0°03'47.581"	1.000000417	517810.484	922991.383	Set: CDOT Type 2 Control Monument
US 6A CM-MP 0.1 GPS PROJECT STATION	38°44'50.11540"	105°23'51.54810"	2106.283	0°03'52.378"	0.999999458	517272.082	923173.829	Set: CDOT Type 2 Control Monument
US 6A CM-MP 0.2 GPS PROJECT STATION	38°44'53.03348"	105°23'53.07140"	2108.215	0°03'51.418"	0.999999618	517362.039	923137.482	Set: CDOT Type 2 Control Monument
US 6 CM-MP 259.9 GPS PROJECT STATION	38°44'48.79514"	105°24'08.18008"	2107.254	0°03'41.889"	0.999999388	517230.927	922777.803	Found: CDOT Type 2 Control Monument
US 6 CM-MP 260.0 GPS PROJECT STATION	38°44'50.17028"	105°23'59.36003"	2106.973	0°03'47.451"	0.999999461	517273.567	922987.843	Set: CDOT Type 2 Control Monument
US 6 CM-MP 259.6 GPS PROJECT STATION	38°44'41.65195"	105°24'19.98739"	2124.887	0°03'34.442"	0.999999896	517010.322	922497.026	Set: CDOT Type 2 Control Monument
US 6 CM-MP 260.1 GPS PROJECT STATION	38°44'45.19735"	105°23'53.11472"	2102.495	0°03'51.390"	0.999999189	517120.359	923136.701	Set: CDOT Type 2 Control Monument
US 6 CM-MP 260.2 GPS PROJECT STATION	38°44'40.41537"	105°23'50.63471"	2105.082	0°03'52.854"	0.999999828	516972.842	923195.912	Set: CDOT Type 2 Control Monument
US 6 CM-MP 260.3 GPS PROJECT STATION	38°44'36.72361"	105°23'42.22852"	2097.212	0°03'58.255"	0.999999727	516850.311	923396.160	Set: CDOT Type 2 Control Monument
US 6 CM-MP 259.75 GPS PROJECT STATION	38°44'48.10803"	105°24'16.58685"	2114.490	0°03'36.587"	0.999999348	517209.522	922577.778	Found: CDOT Type 2 Control Monument
C S36 T3S R72W GPS PROJECT STATION	38°44'53.88846"	105°23'50.17728"	-----	0°03'53.243"	0.999999685	517388.516	923206.333	Found: 3 1/4" alum. cap in 1.5' dia. conc. post LS 3090
E 1/4 S36 T3S R72W GPS PROJECT STATION	38°44'54.19265"	105°23'19.14413"	-----	0°04'12.815"	0.999999981	517398.738	923845.139	Found: 8" x 6" x 7" unmarked sandstone and granite stone, 16" out of ground
FOUR 1892 GPS CHARN-DENSIF. STATION	38°44'54.72141"	105°23'57.33435"	-----	0°03'46.729"	0.999999710	517413.984	923035.914	Found: NGS 3 3/4" Brass disk set flush in the north abutment of bridge.
NE COR S36 T3S R72W GPS PROJECT STATION	38°45'19.21843"	105°23'19.15869"	-----	0°04'12.806"	1.000001080	518170.511	923943.848	Found: 4" x 8" x 20" sandstone in a mound of stones.
NW COR S36 T3S R72W GPS PROJECT STATION	38°45'18.15575"	105°24'23.35381"	-----	0°03'32.319"	1.000001002	518136.075	922415.717	Found: Alum Cap on steel pin, LS 885
SE COR S36 T3S R72W GPS PROJECT STATION	38°44'28.21219"	105°23'19.11741"	-----	0°04'12.832"	0.999998285	516597.481	923948.757	Found: 40" x 20" x 12" granite stone, in a stone mound.
W 1/4 S36 T3S R72W GPS PROJECT STATION	38°44'28.27127"	105°23'51.10571"	-----	0°03'52.857"	0.999998288	518598.387	923185.121	Found: 3" x 10" x 7" granite stone, 16" out of ground
W 1/4 S36 T3S R72W GPS PROJECT STATION	38°44'53.58232"	105°24'23.44342"	-----	0°03'32.282"	0.999999847	517377.572	922414.365	Found: 3 1/4" alum cap on a 2 3/8" alum pipe, LS 3090



Control Monument Cap
NOT TO SCALE



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

PROJECT COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT NAME	PROJECT COORDINATES		ELEV(m)	DESCRIPTION
	NORTH (m)	EAST (m)		
SH 119 CM-MP 0.1 GPS PROJECT STATION	517631.870	923328.728	2109.957	Set: CDOT Type 2 Control Monument
SH 119 CM-MP 0.2 GPS PROJECT STATION	517758.051	923378.360	2114.845	Set: CDOT Type 2 Control Monument
SH 119 CM-MP 0.3 GPS PROJECT STATION	517858.368	923388.439	2117.617	Set: CDOT Type 2 Control Monument
SH 119 CM-MP 0.4 GPS PROJECT STATION	517982.124	923297.340	2122.121	Set: CDOT Type 2 Control Monument
US 6A CM-MP 0.1 GPS PROJECT STATION	517443.544	923479.636	2106.283	Set: CDOT Type 2 Control Monument
US 6A CM-MP 0.2 GPS PROJECT STATION	517533.531	923443.497	2108.215	Set: CDOT Type 2 Control Monument
US 6 CM-MP 259.9 GPS PROJECT STATION	517402.375	923083.778	2107.254	Found: CDOT Type 2 Control Monument
US 6 CM-MP 260.0 GPS PROJECT STATION	517445.029	923293.789	2106.973	Set: CDOT Type 2 Control Monument
US 6 CM-MP 259.6 GPS PROJECT STATION	517181.897	922802.809	2124.887	Set: CDOT Type 2 Control Monument
US 6 CM-MP 260.1 GPS PROJECT STATION	517281.770	923442.696	2102.495	Set: CDOT Type 2 Control Monument
US 6 CM-MP 260.2 GPS PROJECT STATION	517144.305	923501.928	2105.082	Set: CDOT Type 2 Control Monument
US 6 CM-MP 260.3 GPS PROJECT STATION	517030.636	923702.241	2097.212	Set: CDOT Type 2 Control Monument
US 6 CM-MP 259.75 GPS PROJECT STATION	517380.963	922883.588	2114.490	Found: CDOT Type 2 Control Monument
C S36 T3S R72W GPS PROJECT STATION	517580.016	923512.351	-----	Found: 3 1/4" alum. cap in 1.5' dia. conc. post LS 3090
E 1/4 S36 T3S R72W GPS PROJECT STATION	517570.242	924251.402	-----	Found: 8" x 6" x 7" unmarked sandstone and granite stone, 16" out of ground
FOUR 1892 GPS CHARN-DENSIF. STATION	517585.493	923341.875	-----	Found: NGS 3 3/4" Brass disk set flush in the north abutment of bridge.
NE COR S36 T3S R72W GPS PROJECT STATION	518342.271	924250.108	-----	Found: 4" x 8" x 20" sandstone in a mound of stones.
NW COR S36 T3S R72W GPS PROJECT STATION	518307.823	922721.473	-----	Found: Alum Cap on steel pin, LS 885
SE COR S36 T3S R72W GPS PROJECT STATION	516788.899	924253.020	-----	Found: 40" x 20" x 12" granite stone, in a stone mound.
W 1/4 S36 T3S R72W GPS PROJECT STATION	516789.825	923491.132	-----	Found: 3" x 10" x 7" granite stone, 16" out of ground
W 1/4 S36 T3S R72W GPS PROJECT STATION	517549.089	922720.120	-----	Found: 3 1/4" alum cap on a 2 3/8" alum pipe, LS 3090

BASIS OF BEARINGS: Bearings used in the calculation of coordinates are based on a grid bearing of N 21°47'53" E from SH 119 CM-MP 0.1 to SH 119 CM-MP 0.2 as obtained from a Global Positioning System (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN).

BASIS OF ELEVATIONS: Project is based on a CDOH 3 1/4" alum. cap control monument, stamped as shown above. CM-MP 259.75 has an assumed project elevation of 2114.490m .

COORDINATE DATUM: Project coordinates are modified colorado state plane central zone NAD '83 (92) coordinates. State plane coordinates were modified to a mean project elevation of 2109.361m . The combined elevation/scale correction factor used to modify the coordinates was 1.000331473 . The CHARN is based on the NAD '83 (92) datum.

NOTE: Refer to M-828-1 SURVEY MONUMENTS of the STANDARD PLANS, COLORADO DEPARTMENT OF TRANSPORTATION, M & S STANDARDS NOVEMBER 1992 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. 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 from the date of the statement shown.

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 31 day of July, 1995, from a field survey performed under my supervision from August 3, 1994 to October 31, 1995, and checking for and on behalf of the Department of Transportation, State of Colorado, and is not a Land Survey Plot or Right-of-Way Survey Plot 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 and this topographic survey, as shown, meets the minimum horizontal control tolerances of a Type D Survey as listed in the Colorado Department of Transportation Survey Manual Chapter Three (Revised 4/29/92).

Joseph P. Conway L.S. 25618

FILING CERTIFICATION: DEPOSITED THIS _____ DAY OF _____, 19____, AT _____ M., FOR INFORMATION ONLY IN BOOK _____ OF THE COUNTY LAND SURVEYS/RIGHT OF WAY SURVEYS AT PAGE _____ RECEPTION NUMBER _____

SIGNED _____
DEPT. _____



DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO CONTROL SURVEY DIAGRAM

Project STR 0061-059
6 & 119 MP 259.0 to MP 260.0
SECTION 36, T. 3 S., R. 72 W., 6th P.M.
JEFFERSON COUNTY, COLORADO

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NUMBER
XIII	COLORADO	Project STR 0061-059	2

JCT US 6 AND SH 119

FILING CERTIFICATION:
DEPOSITED THIS ____ DAY OF ____ 19____ AT ____ M., FOR INFORMATION
ONLY IN BOOK ____ OF THE COUNTY LAND SURVEYS/RIGHT OF WAY
SURVEYS AT PAGE ____ RECEPTION NUMBER ____

SIGNED _____
DEPT. _____

FOUND:
NW COR S36 T3S R72W
GPS PROJECT STATION
N 518307.823
E 922721.473

FOR ADDITION INFORMATION ON THE LINE BETWEEN
GILPIN AND CLEAR CREEK COUNTIES IN SECTION 36
SEE MAP BY JEFFERSON COUNTY MAPPING DEPT.,
RECEPTION NUMBER 92059130 IN JEFFERSON COUNTY
CLERK AND RECORDERS RECORDS.

0 25 50 75 100 125 150
ORIGINAL SCALE
1 : 2500



FOUND:
US 6 CM-MP 259.75
GPS PROJECT STATION
N 517390.963
E 922863.588
EL 2114.480

FOUND:
W 1/4 S36 T3S R72W
GPS PROJECT STATION
N 517549.069
E 922720.120

FOUND:
US 6 CM-MP 259.9
GPS PROJECT STATION
N 517402.373
E 923083.779
EL 2107.254



Typical NGS Horizontal
Control Cap
NOT TO SCALE

Found: NGS Horizontal Control Cap, monument is a 3 1/4" brass cap,
stamped as shown.



FOUND:
US 6 CM-MP 260.1
GPS PROJECT STATION
N 517291.770
E 923442.898
EL 2102.495

FOUND:
US 6 CM-MP 260.2
GPS PROJECT STATION
N 517144.305
E 923501.928
EL 2103.092

FOUND:
US 6 CM-MP 260.3
GPS PROJECT STATION
N 517030.636
E 923702.241
EL 2087.212

FOUND:
US 6 CM-MP 260.4
GPS PROJECT STATION
N 517030.636
E 923702.241
EL 2087.212

FOUND:
US 6 CM-MP 260.5
GPS PROJECT STATION
N 517030.636
E 923702.241
EL 2087.212

FOUND:
US 6 CM-MP 260.6
GPS PROJECT STATION
N 517030.636
E 923702.241
EL 2087.212

FOUND:
US 6 CM-MP 260.7
GPS PROJECT STATION
N 517030.636
E 923702.241
EL 2087.212

FOUND:
E 1/4 S36 T3S R72W
GPS PROJECT STATION
N 517570.242
E 924251.402



Typical Control
Monument Cap
NOT TO SCALE

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



DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO CONTROL SURVEY DIAGRAM

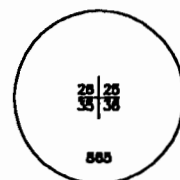
Project STR 0061-059
6 & 119 MP 259.0 to MP 260.0
SECTION 36, T. 3 S., R. 72 W., 6th P.M.
JEFFERSON COUNTY, COLORADO

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NUMBER
VIII	COLORADO	Project STR 0061-059	3

JCT US 6 AND SH 119

FILING CERTIFICATION:
DEPOSITED THIS ____ DAY OF ____, 19__ AT ____, FOR INFORMATION
ONLY IN BOOK ____ OF THE COUNTY LAND SURVEYS/RIGHT OF WAY
SURVEYS AT PAGE ____ RECEPTION NUMBER ____

SIGNED _____
DEPT. _____



FOUND:
Aluminum cap stamped as shown.

Found:
NW COR S36 T3S R72W
GPS PROJECT STATION
N 518307.823
E 922721.473

NOTE:
Searched for N 1/4 corner, monument was not found.

Found:
NE COR S36 T3S R72W
GPS PROJECT STATION
N 518342.271
E 924250.108

FOUND:
A 4" X 8" X 20" sandstone in a mound of stones,
with 5 grooves on the N. face and 1 groove on the
S. face.



FOUND:
3 1/4" alum. cap with 4 ft. dia. mound of stones.

Found:
W 1/4 S36 T3S R72W
GPS PROJECT STATION
N 517548.089
E 922720.120

1/4 SECTION LINE
N 89°12'30" E, 792.307m

← To Interstate 70

Found:
C 1/4 S36 T3S R72W
GPS PROJECT STATION
N 517560.018
E 923512.351

FOUND:
3 1/4" alum. cap in 1.5' dia. conc. post.

1/4 SECTION LINE
N 89°12'28" E, 738.122m

Found:
E 1/4 S36 T3S R72W
GPS PROJECT STATION
N 517570.242
E 924251.402

FOUND:
An 8" X 6" X 7", unmarked sandstone and granite stone,
18" out of ground, encased in a 3 ft. dia. mound of stone.

Found:
S 1/4 S36 T3S R72W
GPS PROJECT STATION
N 516789.625
E 923491.132

FOUND:
A 3" X 10" X 7" granite stone, 18" out of the ground, with 1/4",
scribed on N. face. Stone is firmly set, but leaning to the NW in a
mound of stone 3 ft. in diameter.

Found:
SE COR S36 T3S R72W
GPS PROJECT STATION
N 516788.899
E 924253.020

FOUND:
A 40" X 20" X 12" granite stone, in a stone mound.

