



Sheet Revisions

Date	Description	Initials

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Prepared By:



URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
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Right of Way Plans

Title Sheet

Project Number: STA R100-140				
Project Location: US6 & SH 119, CLEAR CREEK ROCKFALL				
Project Location: JEFFERSON & GILPIN COUNTIES				
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.	
16521	08-11-08	1 of 1	1.01	

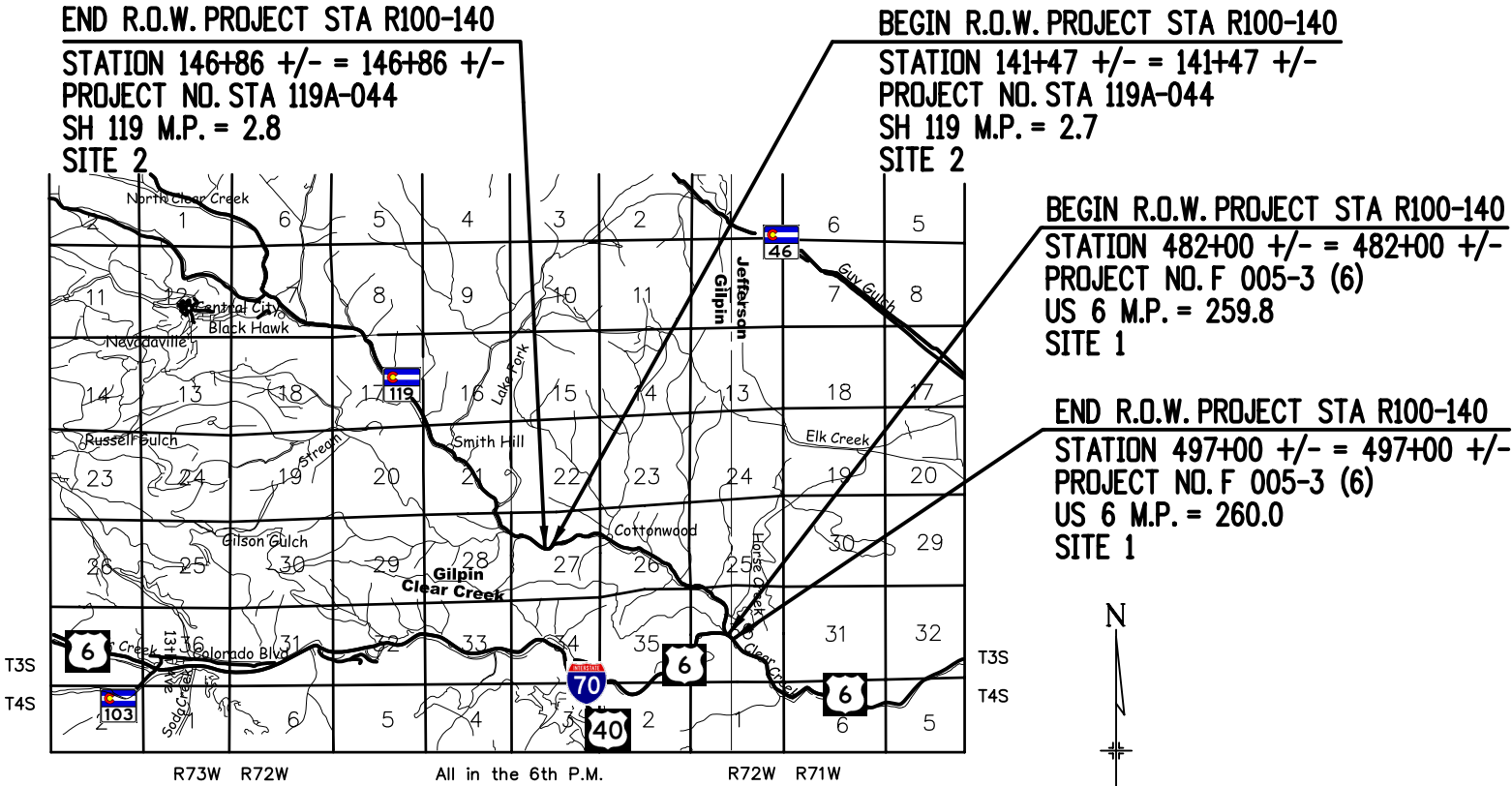
DEPARTMENT OF TRANSPORTATION
STATE OF COLORADO

RIGHT OF WAY PLAN OF PROPOSED
FEDERAL AID PROJECT NO. STA R100-140
US 6 & STATE HIGHWAY NO. 119
JEFFERSON & GILPIN COUNTY
RIGHT OF WAY

SCALES OF ORIGINAL 11x17 DRAWINGS

PLAN SHEETS 1" = 100'
OWNERSHIP MAP 1" = 200'
R.O.W. LENGTH OF PROJECT = 0.20 Miles (Site 1)
0.10 Miles (Site 2)

SHEET NO.	INDEX OF SHEETS
1.01	(1) Title Sheet
2.01	(1) Tabulation of Properties (13) Control Diagrams
4.01	(1) Monumentation Sheets
5.01 - 5.03	(3) Plan Sheets
6.01 - 6.02	(2) Ownership Sheets
M-100-1	(3) Standard Symbols
M-629-1	(2) Survey Monuments
	(26) Total Sheets



All Measurements Are In English Units
Unless Otherwise Noted

BASIS OF BEARINGS: (Site 1)

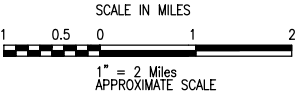
Bearings shown herein are grid bearings based upon the Mountain Surveying and Mapping Inc. Control Diagram for the US Hwy 6 corridor to the CDOT. More particularly a line connecting the S 1/4 corner of Section 36, T. 3S., R. 72W., 6th P.M. (being a found 3-1/4" Brass Cap on pipe stamped: BLM S 1/4 Sec 36 1996), and the SE corner of Section 36, T. 3S., R. 72W., 6th P.M. (being a found 1.5' Vertical Stone in Mound of Stones) as Bearing S. 89° 56' 31" E, a distance of 2501.25 feet.

BASIS OF BEARINGS: (Site 2)

Bearings shown herein are grid bearings based upon the Mountain Surveying and Mapping Section Corner Location Diagram which is also based on the Western States Survey Control Diagram for the SH 119 corridor to the CDOT. More particularly a line connecting the W 1/4 corner of Section 27, T. 3S., R. 72W., 6th P.M. (being a found 15"X9"X9" Stone w/ 1-1/2" Alum. Cap stamped: 1/4 28 27 865) and the NW corner of Section 27, T. 3S., R. 72W., 6th P.M. (being a found 12"X13"X8" Stone w/ 1-1/2" Alum. Cap stamped: 21, 22, 28, 27 865) as Bearing N. 00° 18' 06" E., a distance of 2459.91 feet.

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

AUTHORIZED: _____ DATE _____
DIVISION ADMINISTRATOR



[illegible]

COLORADO DEPARTMENT OF TRANSPORTATION



Region 1
Address: 18500 E. Colfax Ave.
Aurora, CO 80011
Phone: (303) 757-9744 FAX: (303) 757-9746

Survey Unit: Joseph Conway

Sheet Revisions

mm/yy	XXXXX	XXX

US HIGHWAY NO. 6 MP 257.0 to MP 271.6
SITUATE IN SEC. 28, 32 & 33, T. 3 S., R. 70 W.,
SEC. 32, 33, 34, 35 & 36, T. 3 S., R. 71 W., SEC. 36, T. 3 S., R. 72 W.,
SEC. 6, T. 4 S., R. 70 W., SEC. 2, 3, 5 & 6, T. 4 S., R. 71 W.,
SEC. 1, T. 4 S., R. 72 W. OF THE 6TH P.M., COUNTY OF JEFFERSON, AND
SEC. 34, 35 & 36, T. 3 S., R. 72 W., SEC. 1, 2 & 3, T. 4 S., R. 72 W. OF
THE 6TH P.M., COUNTY OF CLEAR CREEK, STATE OF COLORADO.

Project Control Diagram

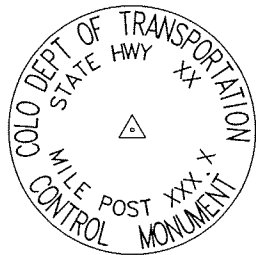
Title Sheet

Project Number: STA 119A-048				
Project Location: US HWY 6 - MILEPOST 257.0 TO 271.6				
Project Location: JEFFERSON & CLEAR CREEK COUNTIES				
Project Code:	Last Mod. Date	Subst Sheets	Sheet No.	Total No. of Sheets
14231	10-18-04	XXX of XXX	1	15

NH 0061-078
PC 15370
SHEET 03



Prepared By:
MOUNTAIN SURVEYING &
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Typical Control
Monument Cap
Not to Scale

BASIS OF BEARING: All bearings are grid bearings of the Colorado State Plane Coordinate System, Central Zone, North American Datum 1983/92. The basis of grid bearing is the line between NSRS horizontal stations "FOUR" a horizontal control disk set in the abutment of a bridge and "THREE" a horizontal control disk set in a rock outcropping. That bearing being S82° 36' 11"E.

BASIS OF ELEVATIONS: Project is based on an elevation of 5717.85 ft at NSRS benchmark L 407. Control points from milepost 257.0 to milepost 271.6 were tied in by means of running a closed bench loop.

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Coordinate System, Central Zone, North American Datum 1983/92 coordinates. The combined elevation scale factor was calculated on a previous CDOT project and is 1.000350925. The modified metric values were converted to US Survey Feet by (3937/1200). The north values were truncated by 1,000,000 and the east values were truncated by 2,000,000.



CP - Control Point Monuments 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. finned aluminum security rod on a 3' X 3/4" dia. smooth aluminum rod.

NOTE: This control survey is for the use of the 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 restriction, as described in the instruments of record, were 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.

NOTE: No guarantee as to the accuracy of the information contained on the attached drawing is either stated or implied unless this copy bears an original signature of the professional land surveyor hereon named.

SURVEYORS STATEMENT: I, Michael D. Heimbuck, a Professional Land Surveyor in the State of Colorado, hereby state that this Control Survey Diagram was prepared under my direct supervision this _____ day of _____, from a field survey performed under my supervision 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 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).

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.

Michael D. Heimbuck PLS 17488

COLORADO DEPARTMENT OF TRANSPORTATION



Region 1
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Aurora, CO 80011
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US HIGHWAY NO. 6 MP 257.0 to MP 271.6
SITUATE IN SEC. 28, 32 & 33, T. 3 S., R. 70 W.,
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SEC. 1, T. 4 S., R. 72 W. OF THE 6TH P.M., COUNTY OF JEFFERSON, AND
SEC. 34, 35 & 36, T. 3 S., R. 72 W., SEC. 1, 2 & 3, T. 4 S., R. 72 W. OF
THE 6TH P.M., COUNTY OF CLEAR CREEK, STATE OF COLORADO.

Project Control Diagram

Monumentation Sheet

Project Number: STA 119A-048				
Project Location: US HWY 6 - MILEPOST 257.0 TO 271.6				
Project Location: JEFFERSON & CLEAR CREEK COUNTIES				
Project Code:	Last Mod. Date:	Subset Sheets	Sheet No.	Total No. of Sheets
14231	10-18-04	XXX of XXX	2	15

NH 0061-078
PC 15370
SHEET 03A



Prepared By:
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DENVER, COLORADO 80231
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GEODETIC COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

PROJECT COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT NAME	GEODETIC COORDINATES NAD-83(92) (CHARN)		ELLIP. (NAVD88)m	MAPPING ANGLE	SCALE	NAD 83(92) ZONE 0502	
	LATITUDE(N)	LONGITUDE(W)				NORTHING (m)	EASTING (m)
I-70 CM-MP 244.42	39° 44' 46.53439" N	105° 26' 16.07648" W	2190.106	0° 02' 21.22623"	0.999999262	517158.522	919733.014
US 6 CM-MP 257.30	39° 44' 48.47216" N	105° 26' 10.55318" W	2186.948	0° 02' 24.70971"	0.999999368	517218.377	919864.471
US 6 CM-MP 257.50	39° 44' 42.65509" N	105° 26' 01.55646" W	2184.282	0° 02' 30.38385"	0.999999050	517039.122	920078.795
US 6 CM-MP 257.70	39° 44' 34.40898" N	105° 25' 54.09112" W	2183.688	0° 02' 35.09216"	0.999998601	516784.931	920256.724
US 6 CM-MP 257.80	39° 44' 31.97577" N	105° 25' 47.59827" W	2187.576	0° 02' 39.18713"	0.999998469	516710.005	920411.371
US 6 CM-MP 257.95	39° 44' 28.59187" N	105° 25' 38.92699" W	2179.344	0° 02' 44.65602"	0.999998286	516605.802	920617.913
US 6 CM-MP 258.10	39° 44' 21.27357" N	105° 25' 37.84978" W	2171.908	0° 02' 45.33541"	0.999997890	516380.116	920643.742
US 6 CM-MP 258.15	39° 44' 19.43073" N	105° 25' 34.43330" W	2169.678	0° 02' 47.49014"	0.999997790	516323.345	920725.136
US 6 CM-MP 258.20	39° 44' 19.91678" N	105° 25' 27.44662" W	2165.044	0° 02' 51.89657"	0.999997816	516338.473	920891.480
US 6 CM-MP 258.35	39° 44' 19.16725" N	105° 25' 21.52273" W	2161.029	0° 02' 55.63271"	0.999997776	516315.475	921032.551
US 6 CM-MP 258.50	39° 44' 12.85742" N	105° 25' 13.73112" W	2156.199	0° 02' 00.54679"	0.999997436	516121.031	921218.245
US 6 CM-MP 258.70	39° 44' 11.36094" N	105° 25' 07.37360" W	2153.335	0° 03' 04.55641"	0.999997355	516075.011	921369.667
US 6 CM-MP 258.85	39° 44' 16.48598" N	105° 24' 57.12088" W	2150.282	0° 03' 11.02270"	0.999997631	516233.297	921613.651
US 6 CM-MP 259.00	39° 44' 23.01480" N	105° 24' 51.29943" W	2145.597	0° 03' 14.69423"	0.999997984	516434.785	921752.075
US 6 CM-MP 259.10	39° 44' 25.42358" N	105° 24' 41.29660" W	2134.484	0° 03' 21.00291"	0.999998114	516509.304	921990.173
US 6 CM-MP 259.25	39° 44' 27.78432" N	105° 24' 34.79183" W	2123.511	0° 03' 25.10540"	0.999998242	516582.265	922144.979
US 6 CM-MP 259.35	39° 44' 31.79436" N	105° 24' 31.51096" W	2121.185	0° 03' 27.17461"	0.999998459	516706.019	922222.972
US 6 CM-MP 259.46	39° 44' 33.47791" N	105° 24' 28.74459" W	2119.419	0° 03' 28.91933"	0.999998551	516758.009	922288.785
US 6 CM-MP 259.50	39° 44' 35.32414" N	105° 24' 24.20158" W	2119.481	0° 03' 31.78456"	0.999998651	516815.059	922396.893
US 6 CM-MP 259.60	39° 44' 41.65222" N	105° 24' 19.98445" W	2112.153	0° 03' 34.44426"	0.999998996	517010.331	922497.096
US 6 CM-MP 259.65	39° 44' 48.37258" N	105° 24' 17.04458" W	2102.688	0° 03' 36.29840"	0.999999363	517217.670	922566.872
US 6 CM-MP 259.80	39° 44' 49.26274" N	105° 24' 07.03433" W	2093.852	0° 03' 42.61176"	0.999999411	517245.378	922805.166
US 6 CM-MP 259.95	39° 44' 50.36719" N	105° 24' 00.73366" W	2094.389	0° 03' 46.58553"	0.999999472	517279.604	922955.133
US 6 CM-MP 260.05	39° 44' 46.38504" N	105° 23' 52.34650" W	2091.991	0° 03' 51.87522"	0.999999254	517157.010	923154.950
US 6 CM-MP 260.20	39° 44' 39.54327" N	105° 23' 50.14922" W	2093.796	0° 03' 53.26102"	0.999998881	516946.059	923207.502
US 6 CM-MP 260.40	39° 44' 35.98058" N	105° 23' 38.98939" W	2082.677	0° 04' 00.29941"	0.999998687	516836.485	923473.331
US 6 CM-MP 260.60	39° 44' 32.46464" N	105° 23' 26.47474" W	2079.539	0° 04' 08.19227"	0.999998496	516728.401	923771.423
US 6 CM-MP 260.80	39° 44' 22.83218" N	105° 23' 23.71064" W	2078.856	0° 04' 09.93556"	0.999997974	516431.401	923837.595
US 6 CM-MP 260.98	39° 44' 16.00257" N	105° 23' 19.81393" W	2076.395	0° 04' 12.39317"	0.999997605	516220.878	923930.634
US 6 CM-MP 261.08	39° 44' 10.36946" N	105° 23' 12.69762" W	2071.064	0° 04' 16.88136"	0.999997302	516047.354	924100.296
US 6 CM-MP 261.15	39° 44' 08.19703" N	105° 23' 06.46544" W	2068.934	0° 04' 20.81913"	0.999997185	515980.540	924248.778
US 6 CM-MP 261.25	39° 44' 12.13607" N	105° 23' 00.53643" W	2065.058	0° 04' 24.55129"	0.999997397	516102.205	924389.802
US 6 CM-MP 261.45	39° 44' 15.35835" N	105° 22' 53.73258" W	2062.565	0° 04' 28.84241"	0.999997570	516201.794	924551.681
US 6 CM-MP 261.65	39° 44' 10.85066" N	105° 22' 47.28742" W	2062.368	0° 04' 32.90730"	0.999997328	516062.972	924705.331
US 6 CM-MP 261.70	39° 44' 09.72992" N	105° 22' 44.72710" W	2061.014	0° 04' 34.52207"	0.999997267	516028.488	924766.341
US 6 CM-MP 261.75	39° 44' 10.40438" N	105° 22' 41.29602" W	2059.664	0° 04' 36.68602"	0.999997304	516049.398	924848.013
US 6 CM-MP 261.85	39° 44' 12.60816" N	105° 22' 33.16750" W	2057.191	0° 04' 41.81259"	0.999997422	516117.628	925041.472
US 6 CM-MP 261.95	39° 44' 12.14763" N	105° 22' 25.89167" W	2056.726	0° 04' 46.40138"	0.999997397	516103.663	925214.738
US 6 CM-MP 262.10	39° 44' 13.72151" N	105° 22' 16.85142" W	2056.386	0° 04' 52.10297"	0.999997482	516152.506	925429.929
US 6 CM-MP 262.30	39° 44' 03.35849" N	105° 22' 10.78512" W	2048.188	0° 04' 55.92892"	0.999996925	515833.102	925574.833
US 6 CM-MP 262.40	39° 44' 02.83261" N	105° 22' 05.79881" W	2045.756	0° 04' 59.07374"	0.999996897	515817.054	925693.591
US 6 CM-MP 262.55	39° 44' 07.22163" N	105° 21' 53.27479" W	2042.448	0° 05' 06.97251"	0.999997133	515952.856	925991.614
US 6 CM-MP 262.65	39° 44' 03.85712" N	105° 21' 44.71108" W	2041.473	0° 05' 12.37355"	0.999996952	515849.396	926195.688
US 6 CM-MP 262.75	39° 44' 04.37674" N	105° 21' 40.05283" W	2041.089	0° 05' 15.31146"	0.999996980	515865.590	926306.586
US 6 CM-MP 262.85	39° 44' 08.26336" N	105° 21' 36.42790" W	2039.138	0° 05' 17.59766"	0.999997189	515985.591	926392.718
US 6 CM-MP 263.05	39° 44' 13.95143" N	105° 21' 28.61390" W	2038.547	0° 05' 22.52587"	0.999997495	516161.308	926578.508
US 6 CM-MP 263.25	39° 44' 21.04163" N	105° 21' 26.12892" W	2037.139	0° 05' 24.09312"	0.999997877	516380.073	926637.335
US 6 CM-MP 263.40	39° 44' 25.16384" N	105° 21' 17.09138" W	2028.876	0° 05' 29.79300"	0.999998100	516507.549	926852.319
US 6 CM-MP 263.50	39° 44' 26.03672" N	105° 21' 07.14282" W	2021.789	0° 05' 36.06746"	0.999998147	516534.852	927089.151
US 6 CM-MP 263.60	39° 44' 32.13730" N	105° 20' 58.78082" W	2019.408	0° 05' 41.34128"	0.999998478	516723.330	927287.938
US 6 CM-MP 263.75	39° 44' 31.58441" N	105° 20' 48.86375" W	2011.402	0° 05' 47.59588"	0.999998448	516706.673	927524.087
US 6 CM-MP 263.95	39° 44' 27.44030" N	105° 20' 40.58574" W	2004.329	0° 05' 52.81673"	0.999998223	516579.197	927721.400
US 6 CM-MP 264.15	39° 44' 26.24739" N	105° 20' 25.69221" W	1993.697	0° 06' 02.20992"	0.999998159	516543.020	928076.077
US 6 CM-MP 264.35	39° 44' 28.01350" N	105° 20' 15.71259" W	1987.302	0° 06' 08.50397"	0.999998254	516597.911	928313.594
US 6 CM-MP 264.50	39° 44' 28.92402" N	105° 20' 03.98207" W	1981.967	0° 06' 15.90228"	0.999998304	516626.496	928592.844
US 6 CM-MP 264.60	39° 44' 30.07982" N	105° 19' 54.46822" W	1980.113	0° 06' 21.90257"	0.999998366	516662.559	928819.299

POINT NAME	PROJECT COORDINATES		ELEV(ft)	DESCRIPTION
	NORTH (ft)	EAST (ft)		
I-70 CM-MP 244.42	697306.34	1018549.64	7229.96	SET CDOT TYPE 2 MON.
US 6 CM-MP 257.30	697502.78	1018981.08	7219.63	SET CDOT TYPE 2 MON.
US 6 CM-MP 257.50	696914.47	1019684.49	7210.92	SET CDOT TYPE 2 MON.
US 6 CM-MP 257.70	696080.22	1020268.45	7208.99	SET CDOT TYPE 2 MON.
US 6 CM-MP 257.80	695834.31	1020776.00	7221.78	SET CDOT TYPE 2 MON.
US 6 CM-MP 257.95	695492.32	1021453.87	7194.80	SET CDOT TYPE 2 MON.
US 6 CM-MP 258.10	694751.62	1021538.64	7170.40	SET CDOT TYPE 2 MON.
US 6 CM-MP 258.15	694565.30	1021805.77	7163.09	SET CDOT TYPE 2 MON.
US 6 CM-MP 258.20	694614.95	1022351.71	7147.94	SET CDOT TYPE 2 MON.
US 6 CM-MP 258.35	694539.47	1022814.70	7134.82	SET CDOT TYPE 2 MON.
US 6 CM-MP 258.50	693901.31	1023424.15	7118.98	SET CDOT TYPE 2 MON.
US 6 CM-MP 258.70	693750.27	1023921.11	7109.65	SET CDOT TYPE 2 MON.
US 6 CM-MP 258.85	694269.76	1024721.87	7099.72	SET CDOT TYPE 2 MON.
US 6 CM-MP 259.00	694931.04	1025176.17	7084.41	SET CDOT TYPE 2 MON.
US 6 CM-MP 259.10	695175.61	1025957.60	7047.97	SET CDOT TYPE 2 MON.
US 6 CM-MP 259.25	695415.07	1026465.68	7012.00	SET CDOT TYPE 2 MON.
US 6 CM-MP 259.35	695821.23	1026721.65	7004.41	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 259.46	695991.86	1026937.65	6998.65	SET CDOT TYPE 2 MON.
US 6 CM-MP 259.50	696179.10	1027292.45	6998.90	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 259.60	696819.98	1027621.32	6974.89	SET CDOT TYPE 2 MON.
US 6 CM-MP 259.65	697500.46	1027850.32	6943.85	SET CDOT TYPE 2 MON.
US 6 CM-MP 259.80	697591.40	1028632.40	6914.94	SET CDOT TYPE 2 MON.
US 6 CM-MP 259.95	697703.73	1029124.59	6916.74	SET CDOT TYPE 2 MON.
US 6 CM-MP 260.05	697301.38	1029780.39	6908.96	SET CDOT TYPE 2 MON.
US 6 CM-MP 260.20	696609.04	1029952.86	6914.88	SET CDOT TYPE 2 MON.
US 6 CM-MP 260.40	696249.42	1030825.31	6878.48	SET CDOT TYPE 2 MON.
US 6 CM-MP 260.60	695894.69	1031803.64	6868.25	SET CDOT TYPE 2 MON.
US 6 CM-MP 260.80	694919.94	1032020.81	6866.01	SET CDOT TYPE 2 MON.
US 6 CM-MP 260.98	694229.01	1032326.17	6857.95	SET CDOT TYPE 2 MON.
US 6 CM-MP 261.08	693659.50	1032883.00	6840.50	SET CDOT TYPE 2 MON.
US 6 CM-MP 261.15	693440.22	1033370.31	6833.55	SET CDOT TYPE 2 MON.
US 6 CM-MP 261.25	693839.52	1033833.15	6820.89	SET CDOT TYPE 2 MON.
US 6 CM-MP 261.45	694166.37	1034364.43	6812.76	SET CDOT TYPE 2 MON.
US 6 CM-MP 261.65	693710.76	1034868.71	6812.15	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 261.70	693597.58	1035068.95	6807.68	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 261.75	693666.21	1035336.99	6803.31	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 261.85	693890.14	1035971.92	6795.26	SET CDOT TYPE 2 MON.
US 6 CM-MP 261.95	693844.31	1036540.58	6793.79	SET CDOT TYPE 2 MON.
US 6 CM-MP 262.10	694004.61	1037246.83	6792.74	SET CDOT TYPE 2 MON.
US 6 CM-MP 262.30	692956.33	1037722.40	6765.87	SET CDOT TYPE 2 MON.
US 6 CM-MP 262.40	692903.66	1038112.17	6757.93	SET CDOT TYPE 2 MON.
US 6 CM-MP 262.55	693349.36	1039090.27	6747.18	SET CDOT TYPE 2 MON.
US 6 CM-MP 262.65	693009.80	1039760.04	6744.04	SET CDOT TYPE 2 MON.
US 6 CM-MP 262.75	693062.95	1040124.01	6742.82	SET CDOT TYPE 2 MON.
US 6 CM-MP 262.85	693456.80	1040406.69	6736.47	SET CDOT TYPE 2 MON.
US 6 CM-MP 263.05	694033.50	1041016.45	6734.60	SET CDOT TYPE 2 MON.
US 6 CM-MP 263.25	694751.48	1041209.52	6730.00	SET CDOT TYPE 2 MON.
US 6 CM-MP 263.40	695169.85	1041915.09	6702.98	SET CDOT TYPE 2 MON.
US 6 CM-MP 263.50	695259.46	1042692.37	6679.83	SET CDOT TYPE 2 MON.
US 6 CM-MP 263.60	695878.04	1043344.79	6672.07	SET CDOT TYPE 2 MON.
US 6 CM-MP 263.75	695823.37	1044119.82	6645.88	SET CDOT TYPE 2 MON.
US 6 CM-MP 263.95	695405.00	1044767.40	6622.73	SET CDOT TYPE 2 MON.
US 6 CM-MP 264.15	695286.27	1045931.45	6587.96	SET CDOT TYPE 2 MON.
US 6 CM-MP 264.35	695466.42	1046710.97	6567.05	SET CDOT TYPE 2 MON.
US 6 CM-MP 264.50	695560.23	1047627.47	6549.66	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 264.60	695678.59	1048370.69	6543.66	FOUND CDOT TYPE 2 MON.

COLORADO DEPARTMENT OF TRANSPORTATION



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Survey Unit: Joseph Conway

Sheet Revisions

mm/yy	XXXXX	XXX

US HIGHWAY NO. 6 MP 257.0 to MP 271.6
SITUATE IN SEC. 28, 32 & 33, T. 3 S., R. 70 W.,
SEC. 32, 33, 34, 35 & 36, T. 3 S., R. 71 W., SEC. 36, T. 3 S., R. 72 W.,
SEC. 6, T. 4 S., R. 70 W., SEC. 2, 3, 5 & 6, T. 4 S., R. 71 W.,
SEC. 1, T. 4 S., R. 72 W. OF THE 6TH P.M., COUNTY OF JEFFERSON, AND
SEC. 34, 35 & 36, T. 3 S., R. 72 W., SEC. 1, 2 & 3, T. 4 S., R. 72 W. OF
THE 6TH P.M., COUNTY OF CLEAR CREEK, STATE OF COLORADO.

Project Control Diagram

Monumentation Sheet

Project Number: STA 119A-048				
Project Location: US HWY 6 - MILEPOST 257.0 TO 271.6				
Project Location: JEFFERSON & CLEAR CREEK COUNTIES				
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.	Total No. of Sheets
14231	10-18-04	XXX of XXX	3	15

NH 0061-078
PC 15370
SHEET 03B



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GEODETIC COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

PROJECT COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT NAME	GEODETIC COORDINATES NAD-83(92) (CHARN)		ELLIP. (NAVD88)m	MAPPING ANGLE	SCALE	NAD 83(92) ZONE 0502	
	LATITUDE(N)	LONGITUDE(W)				NORTHING (m)	EASTING (m)
US 6 CM-MP 264.70	39° 44' 29.78594" N	105° 19' 47.56390" W	1977.670	0° 06' 26.25705"	0.999998350	516653.802	928983.705
US 6 CM-MP 265.00	39° 44' 27.99605" N	105° 19' 31.02160" W	1967.688	0° 06' 36.69011"	0.999998253	516599.346	929377.677
US 6 CM-MP 265.15	39° 44' 23.84944" N	105° 19' 22.49176" W	1956.211	0° 06' 42.06979"	0.999998029	516471.852	929581.020
US 6 CM-MP 265.45	39° 44' 14.27154" N	105° 19' 05.65589" W	1933.118	0° 06' 52.68800"	0.999997512	516177.248	929982.475
US 6 CM-MP 265.50	39° 44' 12.44324" N	105° 19' 03.28135" W	1929.551	0° 06' 54.18559"	0.999997413	516120.974	930039.129
US 6 CM-MP 265.75	39° 44' 16.08157" N	105° 18' 43.11710" W	1914.771	0° 07' 06.90298"	0.999997609	516234.164	930519.032
US 6 CM-MP 265.95	39° 44' 22.02969" N	105° 18' 41.88686" W	1909.784	0° 07' 07.67887"	0.999997930	516417.673	930547.945
US 6 CM-MP 266.05	39° 44' 28.78127" N	105° 18' 39.04386" W	1902.170	0° 07' 09.47193"	0.999998296	516626.042	930615.204
US 6 CM-MP 266.20	39° 44' 31.70059" N	105° 18' 31.89548" W	1902.930	0° 07' 13.98033"	0.999998454	516716.434	930785.216
US 6 CM-MP 266.40	39° 44' 43.34958" N	105° 18' 34.31583" W	1895.060	0° 07' 12.45384"	0.999998088	517075.585	930726.835
US 6 CM-MP 266.50	39° 44' 47.81053" N	105° 18' 33.02338" W	1891.844	0° 07' 13.26898"	0.999999332	517213.232	930757.317
US 6 CM-MP 266.60	39° 44' 50.34962" N	105° 18' 26.77581" W	1887.817	0° 07' 17.20926"	0.999999471	517291.856	930905.893
US 6 CM-MP 266.80	39° 44' 49.20190" N	105° 18' 16.17652" W	1885.064	0° 07' 23.89412"	0.999999408	517256.997	931158.313
US 6 CM-MP 266.90	39° 44' 46.74549" N	105° 18' 08.75876" W	1884.438	0° 07' 28.57242"	0.999999274	517181.620	931335.078
US 6 CM-MP 267.10	39° 44' 39.34611" N	105° 18' 02.69063" W	1877.117	0° 07' 32.39953"	0.999998870	516953.728	931480.049
US 6 CM-MP 267.28	39° 44' 37.57724" N	105° 17' 54.33648" W	1865.404	0° 07' 37.66840"	0.999998774	516899.612	931679.071
US 6 CM-MP 267.30	39° 44' 37.10156" N	105° 17' 50.54127" W	1862.307	0° 07' 40.06200"	0.999998748	516885.142	931769.463
US 6 CM-MP 267.45	39° 44' 32.97926" N	105° 17' 41.52110" W	1855.296	0° 07' 45.75093"	0.999998524	516758.486	931984.511
US 6 CM-MP 267.50	39° 44' 31.84040" N	105° 17' 36.86540" W	1852.946	0° 07' 48.68723"	0.999998462	516723.613	932095.439
US 6 CM-MP 267.75	39° 44' 38.62499" N	105° 17' 23.89622" W	1852.424	0° 07' 56.86676"	0.999998831	516933.568	932403.744
US 6 CM-MP 268.10	39° 44' 30.34137" N	105° 17' 01.06192" W	1838.526	0° 08' 11.26811"	0.999998381	516679.365	932948.008
US 6 CM-MP 268.25	39° 44' 26.26994" N	105° 16' 49.76929" W	1833.975	0° 08' 18.39026"	0.999998156	516552.498	933217.188
US 6 CM-MP 268.35	39° 44' 26.22910" N	105° 16' 44.05670" W	1833.103	0° 08' 21.99313"	0.999998158	516553.511	933353.203
US 6 CM-MP 268.45	39° 44' 29.48031" N	105° 16' 39.21010" W	1830.930	0° 08' 25.04983"	0.999998334	516654.065	933468.355
US 6 CM-MP 268.65	39° 44' 31.59139" N	105° 16' 29.91428" W	1826.286	0° 08' 30.91260"	0.999998448	516719.719	933689.523
US 6 CM-MP 268.80	39° 44' 37.44286" N	105° 16' 19.91164" W	1820.237	0° 08' 37.22116"	0.999998766	516900.780	933927.227
US 6 CM-MP 268.95	39° 44' 33.49049" N	105° 16' 10.64173" W	1813.193	0° 08' 43.06760"	0.999998552	516779.440	934148.242
US 6 CM-MP 269.20	39° 44' 22.82692" N	105° 16' 11.27248" W	1807.261	0° 08' 42.66979"	0.999997974	516450.522	934134.058
US 6 CM-MP 269.34	39° 44' 19.60981" N	105° 16' 01.42017" W	1803.147	0° 08' 48.88354"	0.999997800	516351.900	934368.898
US 6 CM-MP 269.50	39° 44' 19.95112" N	105° 15' 52.79711" W	1798.322	0° 08' 54.32201"	0.999997818	516362.956	934574.190
US 6 CM-MP 269.70	39° 44' 17.76084" N	105° 15' 38.82238" W	1791.676	0° 09' 03.13573"	0.999997700	516296.273	934907.113
US 6 CM-MP 269.80	39° 44' 21.13103" N	105° 15' 34.73242" W	1787.754	0° 09' 05.71523"	0.999997882	516400.472	935004.223
US 6 CM-MP 270.10	39° 44' 31.79352" N	105° 15' 23.14350" W	1775.534	0° 09' 13.02424"	0.999998459	516730.053	935279.278
US 6 CM-MP 270.20	39° 44' 32.63969" N	105° 15' 11.12598" W	1766.171	0° 09' 20.60356"	0.999998505	516756.922	935565.337
US 6 CM-MP 270.40	39° 44' 41.44134" N	105° 15' 04.70211" W	1763.284	0° 09' 24.65503"	0.999998984	517028.795	935717.541
US 6 CM-MP 270.76	39° 44' 52.41273" N	105° 15' 04.23320" W	1754.276	0° 09' 24.95076"	0.999999584	517367.199	935727.779
US 6 CM-MP 270.84	39° 44' 58.88688" N	105° 15' 04.69246" W	1749.361	0° 09' 24.66111"	0.999999939	517566.842	935716.298
US 6 CM-MP 270.95	39° 45' 05.31224" N	105° 14' 51.58851" W	1743.133	0° 09' 32.92564"	1.000000292	517765.870	936027.711
US 6 CM-MP 271.20	39° 45' 10.72295" N	105° 14' 40.45925" W	1739.611	0° 09' 39.94475"	1.000000591	517933.485	936292.187
US 6 CM-MP 271.30	39° 45' 13.81856" N	105° 14' 32.73956" W	1741.477	0° 09' 44.81347"	1.000000762	518029.477	936475.689
US 6 CM-MP 271.50	39° 45' 13.63282" N	105° 14' 20.50102" W	1742.577	0° 09' 52.53219"	1.000000751	518024.580	936767.049
US 6 CM-MP 271.60	39° 45' 15.81255" N	105° 14' 11.71986" W	1738.017	0° 09' 58.07038"	1.000000872	518092.410	936975.893
SH 119 CM-MP 0.85	39° 45' 17.49117" N	105° 24' 21.66101" W	2126.646	0° 03' 33.38687"	1.000000965	518115.620	922456.036
NSRS D447	39° 44' 43.45384" N	105° 26' 20.00006" W	2189.349	0° 02' 18.75166"	0.999999094	517063.449	919639.665
NSRS E447	39° 44' 33.71370" N	105° 25' 51.40904" W	2186.362	0° 02' 36.78372"	0.999998564	516763.536	920320.598
NSRS FOUR	39° 44' 54.72143" N	105° 23' 57.33419" W	2097.600	0° 03' 48.72954"	0.999999710	517413.985	923035.918
NSRS G447	39° 43' 58.46489" N	105° 25' 35.32795" W	2290.038	0° 02' 46.92590"	0.999996663	515676.711	920704.357
NSRS P100	39° 45' 19.30637" N	105° 24' 32.79069" W	2135.742	0° 03' 26.36749"	1.000001065	518171.334	922191.036
NSRS RMCL100	39° 42' 37.86287" N	105° 17' 37.05125" W	2344.860	0° 07' 48.57002"	0.999992428	513208.391	932099.000
NSRS RMCL120	39° 43' 28.65029" N	105° 25' 03.21643" W	2379.550	0° 03' 07.17830"	0.999995079	514757.845	921469.850
NSRS RMCL40	39° 41' 45.57974" N	105° 12' 35.38127" W	1970.705	0° 10' 58.83012"	0.999989763	511615.568	939289.962
NSRS RMCL60	39° 42' 03.42418" N	105° 14' 22.14132" W	2116.268	0° 09' 51.49767"	0.999990665	512158.198	936744.823
NSRS RMCL80	39° 42' 42.62474" N	105° 16' 11.65363" W	2235.924	0° 08' 42.42940"	0.999992674	513360.139	934132.810
NSRS STOOGES	39° 44' 31.47367" N	105° 17' 12.80608" W	1850.430	0° 08' 03.86119"	0.999998442	516713.626	932668.303
NSRS THREE	39° 44' 29.18166" N	105° 19' 45.44337" W	1976.100	0° 06' 27.59445"	0.999998318	516635.259	929034.229

POINT NAME	PROJECT COORDINATES		ELEV(ft)	DESCRIPTION
	NORTH (ft)	EAST (ft)		
US 6 CM-MP 264.70	695649.85	1048910.27	6535.69	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 265.00	695471.13	1050203.28	6503.06	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 265.15	695052.70	1050870.65	6465.48	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 265.45	694085.81	1052188.22	6389.79	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 265.50	693901.12	1052374.15	6378.12	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 265.75	694272.61	1053949.19	6329.79	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 265.95	694874.88	1054044.08	6313.46	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 266.05	695558.74	1054264.82	6288.53	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 266.20	695855.41	1054822.80	6291.09	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 266.40	697034.14	1054631.20	6265.29	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 266.50	697485.89	1054731.24	6254.77	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 266.60	697743.94	1055218.86	6241.62	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 266.80	697629.53	1056047.30	6232.66	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 266.90	697382.14	1056627.44	6230.66	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 267.10	696634.21	1057103.23	6206.66	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 267.28	696456.60	1057756.42	6168.29	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 267.30	696409.11	1058053.08	6158.16	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 267.45	695993.42	1058758.87	6135.20	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 267.50	695878.97	1059122.93	6127.53	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 267.75	696568.04	1060134.78	6125.95	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 268.10	695733.75	1061921.05	6080.53	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 268.25	695316.21	1062805.23	6065.68	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 268.35	695320.70	1063250.89	6062.88	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 268.45	695650.72	1063628.82	6055.82	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 268.65	695866.19	1064354.69	6040.69	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 268.80	696460.43	1065134.83	6020.97	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 268.95	696062.19	1065860.20	5997.93	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 269.20	694982.69	1065813.65	5978.42	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 269.34	694659.01	1066584.39	5964.97	SET CDOT TYPE 2 MON.
US 6 CM-MP 269.50	694695.30	1067258.16	5949.25	FOUND CDOT TYPE 2 MON.
US 6 CM-MP 269.70	694476.45	1068350.80	5927.56	FOUND CDOT TYPE 2 MON.

COLORADO DEPARTMENT OF TRANSPORTATION



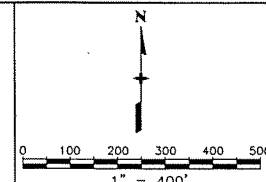
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Survey Unit: Joseph Conway

Sheet Revisions

mm/yy	xxxxx	xxx

US HIGHWAY NO. 6 MP 257.0 to MP 271.6
SITUATE IN SEC. 28, 32 & 33, T. 3 S., R. 70 W.,
SEC. 32, 33, 34, 35 & 36, T. 3 S., R. 71 W., SEC. 36, T. 3 S., R. 72 W.,
SEC. 6, T. 4 S., R. 70 W., SEC. 2, 3, 5 & 6, T. 4 S., R. 71 W.,
SEC. 1, T. 4 S., R. 72 W. OF THE 6TH P.M., COUNTY OF JEFFERSON, AND
SEC. 34, 35 & 36, T. 3 S., R. 72 W., SEC. 1, 2 & 3, T. 4 S., R. 72 W. OF
THE 6TH P.M., COUNTY OF CLEAR CREEK, STATE OF COLORADO.



Project Control Diagram

Plan Sheet

Project Number: STA 119A-048				
Project Location: US HWY 6 - MILEPOST 257.0 TO 271.6				
Project Location: JEFFERSON & CLEAR CREEK COUNTIES				
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.	Total No. of Sheets
14231	10-18-04	XXX of XXX	6	15

NH 0061-078
PC 15370
SHEET 03C

Prepared By:
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DENVER, COLORADO 80231
(303) 306-1858

SET
US 6 CM-MP 259.65
CDOT TYPE 2 MON.
N: 697500.46
E: 1027850.32
EL:6943.85

SET
US 6 CM-MP 259.80
CDOT TYPE 2 MON.
N: 697591.40
E: 1028632.40
EL:6914.94

FOUND
NSRS FOUR
NGS HORZ. DISK IN ROCK
N: 698144.76
E: 1029389.72
EL:6927.35

SET
US 6 CM-MP 259.95
CDOT TYPE 2 MON.
N: 697703.73
E: 1029124.59
EL:6916.74

SET
US 6 CM-MP 260.05
CDOT TYPE 2 MON.
N: 697301.38
E: 1029780.39
EL:6908.96

SET
US 6 CM-MP 259.60
CDOT TYPE 2 MON.
N: 696819.98
E: 1027621.32
EL:6974.89

SET
US 6 CM-MP 260.20
CDOT TYPE 2 MON.
N: 696609.04
E: 1029952.86
EL:6914.88

SET
US 6 CM-MP 260.40
CDOT TYPE 2 MON.
N: 696249.42
E: 1030825.31
EL:6878.48

SET
US 6 CM-MP 260.60
CDOT TYPE 2 MON.
N: 695894.69
E: 1031803.64
EL:6868.25

SET
US 6 CM-MP 260.80
CDOT TYPE 2 MON.
N: 694919.94
E: 1032020.81
EL:6866.01



CONTROL SURVEY DIAGRAM

COLORADO DEPARTMENT OF TRANSPORTATION

PROJECT NO. STR 0119-044

SR 119 - HWY. 6 to BLACKHAWK (MP 0.05-MP 7.30)

SECTIONS 7, 8, 17, 20, 21, 26, 27, 28, 35 & 36, T. 3 S., R. 72 W., 6th P.M.

GILPIN COUNTY, COLORADO

SHEET 1 OF 4

RIGHT OF WAY	
PROJECT CONTROL DIAGRAM	
STA 119A-044	
GILPIN COUNTY	
PROJECT CODE: 12878	SHEET NUMBER: 2

NH 0061-078

PC 15370

SHEET 03D

GPS COORDINATE SUMMARY TABLE (ADJUSTED FIELD DATA)

POINT NAME	GEODETIC COORDINATES NAD-83(92) (CHARN)		ELEV. m (NAVD '88)	MAPPING ANGLE	SCALE	NAD 83(92) ZONE 0502		DESCRIPTION
	LATITUDE	LONGITUDE				NORTHING m	EASTING m	
CM-MP 0.05 GPS PROJECT STATION	39° 44' 52.0154" N	105° 23' 53.3054" W	2108.453	0° 03' 51.270"	0.999999562	517330.632	923131.920	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 0.20 GPS PROJECT STATION	39° 45' 00.2482" N	105° 23' 55.8765" W	2115.715	0° 03' 49.649"	1.000000014	517584.481	923070.423	FOUND: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 0.40 GPS PROJECT STATION	39° 45' 07.5788" N	105° 23' 59.1849" W	2123.192	0° 03' 47.562"	1.000000417	517810.480	922991.411	FOUND: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 0.60 GPS PROJECT STATION	39° 45' 11.6239" N	105° 24' 07.4351" W	2128.961	0° 03' 42.359"	1.000000640	517935.026	922794.874	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 0.75 GPS PROJECT STATION	39° 45' 15.6387" N	105° 24' 13.8215" W	2134.208	0° 03' 38.331"	1.000000862	518058.690	922642.708	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 0.85 GPS PROJECT STATION	39° 45' 17.4910" N	105° 24' 21.6607" W	2140.491	0° 03' 33.387"	1.000000965	518115.617	922456.036	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 1.00 GPS PROJECT STATION	39° 45' 19.3062" N	105° 24' 32.7901" W	2149.561	0° 03' 26.368"	1.000001065	518171.335	922191.043	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 1.15 GPS PROJECT STATION	39° 45' 27.7433" N	105° 24' 38.6333" W	2155.548	0° 03' 22.682"	1.000001534	518431.411	922051.692	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 1.30 GPS PROJECT STATION	39° 45' 31.7996" N	105° 24' 45.5657" W	2160.280	0° 03' 18.310"	1.000001759	518556.352	921886.552	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 1.50 GPS PROJECT STATION	39° 45' 38.8388" N	105° 24' 57.3934" W	2175.185	0° 03' 10.851"	1.000002152	518773.189	921604.808	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 1.65 GPS PROJECT STATION	39° 45' 40.6272" N	105° 25' 06.6404" W	2178.176	0° 03' 05.019"	1.000002252	518828.143	921384.652	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 1.75 GPS PROJECT STATION	39° 45' 40.8605" N	105° 25' 15.8858" W	2186.403	0° 02' 59.188"	1.000002265	518835.143	921164.581	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 1.90 GPS PROJECT STATION	39° 45' 45.2412" N	105° 25' 25.8319" W	2195.274	0° 02' 52.915"	1.000002510	518970.054	920927.723	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 2.10 GPS PROJECT STATION	39° 45' 49.7516" N	105° 25' 36.4328" W	2205.205	0° 02' 46.229"	1.000002763	519108.953	920675.277	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 2.20 GPS PROJECT STATION	39° 45' 48.1161" N	105° 25' 43.7945" W	2211.150	0° 02' 41.586"	1.000002672	519058.374	920500.092	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 2.30 GPS PROJECT STATION	39° 45' 49.1498" N	105° 25' 51.2306" W	2214.074	0° 02' 36.896"	1.000002729	519090.112	920323.072	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 2.40 GPS PROJECT STATION	39° 45' 46.7257" N	105° 25' 54.6179" W	2215.650	0° 02' 34.760"	1.000002594	519015.285	920242.510	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 2.50 GPS PROJECT STATION	39° 45' 44.1147" N	105° 26' 01.3489" W	2220.854	0° 02' 30.515"	1.000002447	518934.641	920082.352	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 2.60 GPS PROJECT STATION	39° 45' 43.8454" N	105° 26' 08.0452" W	2225.615	0° 02' 26.291"	1.000002432	518926.221	919922.969	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 2.70 GPS PROJECT STATION	39° 45' 41.3128" N	105° 26' 11.2573" W	2231.636	0° 02' 24.266"	1.000002290	518848.057	919846.567	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 2.80 GPS PROJECT STATION	39° 45' 39.6464" N	105° 26' 15.1636" W	2235.502	0° 02' 21.802"	1.000002197	518796.598	919753.621	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 2.90 GPS PROJECT STATION	39° 45' 42.7013" N	105° 26' 21.7709" W	2239.969	0° 02' 17.635"	1.000002368	518890.711	919596.285	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 3.15 GPS PROJECT STATION	39° 45' 48.4304" N	105° 26' 34.4619" W	2251.761	0° 02' 09.631"	1.000002689	519067.211	919294.092	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 3.25 GPS PROJECT STATION	39° 45' 48.9769" N	105° 26' 41.4648" W	2258.812	0° 02' 05.214"	1.000002720	519083.965	919127.392	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 3.40 GPS PROJECT STATION	39° 45' 55.5431" N	105° 26' 51.1986" W	2269.749	0° 01' 59.075"	1.000003089	519286.339	918895.592	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 3.60 GPS PROJECT STATION	39° 46' 02.4104" N	105° 26' 54.6503" W	2277.704	0° 01' 56.898"	1.000003476	519498.088	918813.318	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 3.65 GPS PROJECT STATION	39° 46' 06.0570" N	105° 26' 52.9527" W	2279.987	0° 01' 57.969"	1.000003682	519610.575	918853.656	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 3.75 GPS PROJECT STATION	39° 46' 09.3922" N	105° 26' 53.1842" W	2283.614	0° 01' 57.823"	1.000003870	519713.429	918848.083	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 3.85 GPS PROJECT STATION	39° 46' 12.3007" N	105° 26' 58.0943" W	2289.834	0° 01' 54.726"	1.000004035	519803.069	918731.171	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 3.95 GPS PROJECT STATION	39° 46' 17.7270" N	105° 27' 04.9631" W	2297.124	0° 01' 50.394"	1.000004343	519970.338	918567.603	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 4.10 GPS PROJECT STATION	39° 46' 22.9986" N	105° 27' 08.8192" W	2302.609	0° 01' 47.962"	1.000004642	520132.876	918475.269	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 4.20 GPS PROJECT STATION	39° 46' 28.1426" N	105° 27' 11.3989" W	2309.276	0° 01' 46.335"	1.000004936	520291.496	918414.269	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 4.30 GPS PROJECT STATION	39° 46' 31.9795" N	105° 27' 16.4179" W	2314.568	0° 01' 43.169"	1.000005155	520409.769	918294.765	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 4.35 GPS PROJECT STATION	39° 46' 34.6497" N	105° 27' 22.0177" W	2320.657	0° 01' 39.638"	1.000005307	520492.058	918161.461	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 4.40 GPS PROJECT STATION	39° 46' 36.8431" N	105° 27' 24.9742" W	2323.852	0° 01' 37.773"	1.000005433	520559.673	918091.070	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 4.50 GPS PROJECT STATION	39° 46' 41.9985" N	105° 27' 30.3663" W	2331.309	0° 01' 34.372"	1.000005728	520718.619	917962.678	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 4.65 GPS PROJECT STATION	39° 46' 45.1898" N	105° 27' 41.5998" W	2337.090	0° 01' 27.287"	1.000005911	520816.921	917695.311	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 4.75 GPS PROJECT STATION	39° 46' 49.2706" N	105° 27' 44.4357" W	2340.718	0° 01' 25.499"	1.000006146	520942.753	917627.774	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 5.05 GPS PROJECT STATION	39° 47' 01.0944" N	105° 27' 49.0373" W	2354.727	0° 01' 22.597"	1.000006828	521307.376	917518.126	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 5.25 GPS PROJECT STATION	39° 47' 10.9257" N	105° 27' 57.3942" W	2363.607	0° 01' 17.326"	1.000007397	521610.519	917319.160	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 5.55 GPS PROJECT STATION	39° 47' 20.9524" N	105° 28' 07.6540" W	2371.330	0° 01' 10.855"	1.000007981	521919.668	917074.926	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 5.80 GPS PROJECT STATION	39° 47' 30.4673" N	105° 28' 17.2346" W	2383.088	0° 01' 04.813"	1.000008536	522213.053	916846.878	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 5.95 GPS PROJECT STATION	39° 47' 38.0983" N	105° 28' 27.4973" W	2393.438	0° 00' 58.340"	1.000008983	522448.334	916602.637	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 6.05 GPS PROJECT STATION	39° 47' 42.2721" N	105° 28' 28.5858" W	2397.726	0° 00' 57.654"	1.000009229	522577.051	916576.699	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 6.15 GPS PROJECT STATION	39° 47' 47.5998" N	105° 28' 33.1771" W	2407.190	0° 00' 54.758"	1.000009542	522741.338	916467.428	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 6.30 GPS PROJECT STATION	39° 47' 52.0369" N	105° 28' 36.4488" W	2410.624	0° 00' 52.695"	1.000009804	522878.166	916389.554	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 6.40 GPS PROJECT STATION	39° 47' 53.2451" N	105° 28' 45.2501" W	2419.569	0° 00' 47.143"	1.000009875	522915.375	916308.141	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 6.55 GPS PROJECT STATION	39° 47' 55.6365" N	105° 28' 55.6372" W	2426.120	0° 00' 40.592"	1.000010016	522989.076	915933.012	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 6.80 GPS PROJECT STATION	39° 47' 56.7786" N	105° 29' 11.4922" W	2436.882	0° 00' 30.593"	1.000010084	523024.239	915555.816	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 6.95 GPS PROJECT STATION	39° 47' 57.8084" N	105° 29' 20.2956" W	2444.185	0° 00' 25.041"	1.000010145	523055.976	915346.380	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 7.10 GPS PROJECT STATION	39° 48' 01.1569" N	105° 29' 27.0479" W	2449.707	0° 00' 20.782"	1.000010343	523159.232	915185.732	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 7.20 GPS PROJECT STATION	39° 48' 04.3744" N	105° 29' 31.8639" W	2453.993	0° 00' 17.744"	1.000010534	523258.456	915071.143	SET: CDOT TYPE 2 CONTROL MONUMENT
CM-MP 7.30 GPS PROJECT STATION	39° 48' 07.3957" N	105° 29' 37.0399" W	2455.538	0° 00' 14.480"	1.000010713	523351.629	914948.003	SET: CDOT TYPE 2 CONTROL MONUMENT
FARID NGS HOR CONTROL STATION	39° 47' 55.8146" N	105° 29' 04.5328" W	2430.522	0° 00' 34.982"	1.000010027	522994.528	915721.381	FOUND: NGS HORIZONTAL CONTROL POINT
FOUR NGS HOR CONTROL STATION	39° 44' 54.7213" N	105° 23' 57.3336" W		0° 03' 48.730"	0.999999710	517413.985	923035.918	FOUND: NGS HORIZONTAL CONTROL POINT
HIRSCHFELD NGS HOR. CONT. STA.	39° 45' 47.1485" N	105° 26' 27.6288" W		0° 02' 13.940"	1.000002617	519027.778	919456.761	FOUND: NGS HORIZONTAL CONTROL POINT

PROJECT COORDINATE SUMMARY TABLE (ADJUSTED FIELD DATA)

POINT NO.	NAD 83(92) ZONE 0502		ELEV. m (NAVD '88)	PROJECT COORDINATES		ELEV. ft. (NAVD '88)
	NORTHING m	EASTING m		NORTHING ft	EASTING ft	
5	517330.632	923131.920	2108.453	1697871.181	3029704.769	6917.484
20	517584.481	923070.423	2115.715	1698704.310	3029502.939	6941.309
40	517810.480	922991.411	2123.192	1699446.034	3029243.620	6965.839
60	517935.026	922794.874	2128.961	1699854.793	3028598.591	6984.765
75	518058.690	922642.708	2134.208	1700260.657	3028099.184	7001.981
85	518115.617	922456.036	2140.491	1700447.489	3027486.528	7022.593
100	518171.335	922191.043	2149.561	1700630.356	3026616.825	7052.353
115	518431.411	922051.692	2155.548	1701483.920	3026159.478	7071.995
130	518556.352	921886.552	2160.280	1701893.974	3025617.490	7087.517
150	518773.189	921604.808	2175.185	1702605.632	3024692.811	7136.419
165	518828.143	921384.652	2178.176	1702785.990	3023970.265	7146.233
175	518835.143	921164.581	2186.403	1702808.962	3023247.995	7173.225
190	518970.054	920927.723	2195.274	1703251.737	3022470.629	7202.327
210	519108.953	920675.277	2205.205	1703707.602	3021642.104	7234.910
220	519058.374	920500.092	2211.150	1703541.605	3021067.151	7254.415
230	519090.112	920323.072	2214.074	1703645.766	3020486.173	7264.007
240	519015.285	920242.510	2215.650	1703400.186	3020221.769	7269.178
250	518934.641	920082.352	2220.854	1703135.513	3019696.134	7286.253
260	518926.221	919922.969	2225.615	1703107.880	3019173.042	7301.871
270	518848.057	919846.567	2231.636	1702851.347	3018922.291	7321.626
280	518796.598	919753.621	2235.502	1702682.458	3018617.245	7334.310
290	518890.711	919596.285	2239.969	1702991.335	3018100.871	7348.965
315	519067.211	919294.092	2251.761	1703570.608	3017109.078	7387.654
325	519083.965	919127.392	2258.812	1703625.593	3016561.971	7410.785
340	519286.339	918895.592	2269.749	1704289.783	3015801.205	7446.669
360	519498.088	918813.318	2277.704	1704984.738	3015531.184	7472.767
365	519610.575	918853.656	2279.987	1705353.919	3015663.572	7480.257
375	519713.429	918848.083	2283.614	1705691.485	3015645.281	7492.158
385	519803.069	918731.171	2289.834	1705985.680	3015261.580	7512.564
395	519970.338	918567.603	2297.124	1706534.657	3014724.753	7536.481
410	520132.876	918475.746	2302.609	1707068.102	3014423.277	7554.477
420	520291.496	918414.269	2309.276	1707588.690	3014221.510	7576.349
430	520409.769	918294.765	2314.568	1707976.863	3013829.303	7593.712
435	520492.058	918161.461	2320.657	1708246.934	3013391.799	7613.689
440	520559.673	918091.070	2323.852	1708468.845	3013160.776	7624.107
450	520718.615	917962.678	2331.309	1708990.491	3012739.398	7648.636
465	520816.921	917695.311	2337.090	1709313.128	3011861.902	7667.604
475	520942.753	917627.774	2340.718	1709726.106	3011640.246	7679.504
505	521307.376	917518.126	2354.727	1710922.794	3011280.384	7725.467
525	521610.519	917319.160	2363.607	1711917.703	3010627.380	7754.601
555	521919.668	917074.926	2371.330	1712932.326	3009825.807	7779.940
580	522213.053	916846.878	2383.088	1713895.213	3009077.359	7818.514
595	522448.334	916602.637	2393.438	1714667.400	3008275.762	7852.470
605	522577.051	916576.699	2397.726	1715089.848	3008190.637	7866.541
615	522741.338	916467.428	2407.190	1715629.037	3007832.010	7897.588
630	522878.166	916389.555	2410.624	1716078.103	3007576.428	7908.856
640	522915.375	916180.141	2419.569	1716200.223	3006889.139	7938.203
655	522989.076	915933.012	2426.120	1716442.109	3006078.065	7959.696
680	523024.239	915555.816	2436.882	1716557.510	3004840.112	7995.004
695	523055.976	915346.380	2444.185	1716661.672	3004152.747	8018.962
710	523159.232	915185.732	2449.707	1717000.555	3003625.501	8037.082
720	523258.456	915071.143	2453.993	1717326.207	3003249.424	8051.142
730	523351.629	914948.003	2455.538	1717632.001	3002845.280	8056.212
900	522994.528	915721.381	2430.522	1716460.000	3005383.496	7974.139
904	517413.985	923035.918		1698144.744	3029389.693	
950	519027.778	919456.761		1703441.187	3017642.954	
609	Found 3 1/4" CDOT Alum. Cap CM-MP 6.10			1715349.264	3008208.044	7879.139

DEPOSITED THIS _____ DAY OF _____, 19____, AT _____ M., FOR INFORMATION
ONLY IN BOOK _____ OF THE _____ LAND SURVEYS/RIGHT OF WAY
SURVEYS AT PAGE _____ NUMBER _____
SIGNED _____
DEPT. _____

CONTROL SURVEY DIAGRAM

COLORADO DEPARTMENT OF TRANSPORTATION

PROJECT NO. STR 0119-044

SR 119 - HWY. 6 to BLACKHAWK (MP 0.05-MP 7.30)

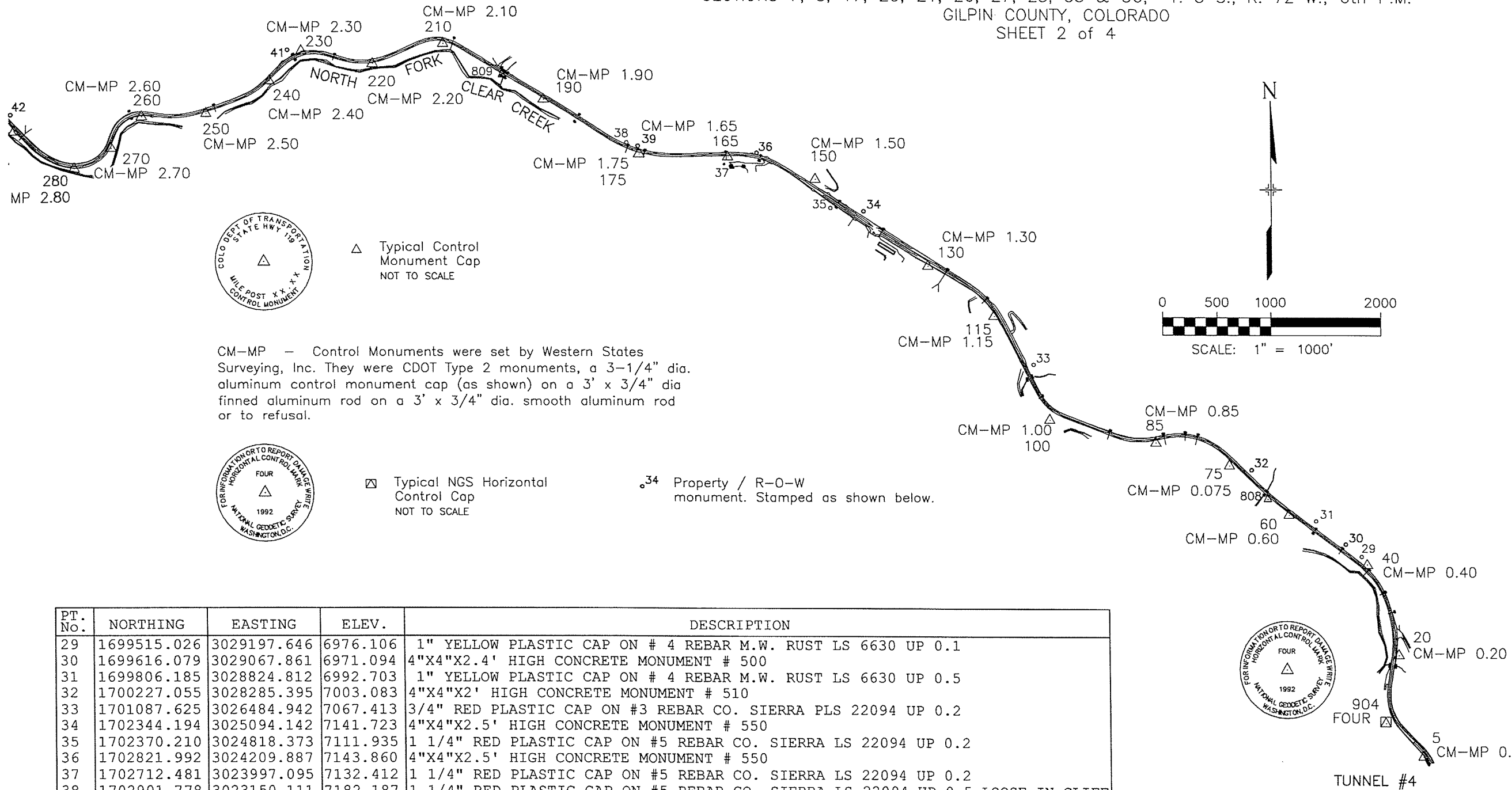
SECTIONS 7, 8, 17, 20, 21, 26, 27, 28, 35 & 36, T. 3 S., R. 72 W., 6th P.M.

GILPIN COUNTY, COLORADO

SHEET 2 of 4

RIGHT OF WAY		
PROJECT CONTROL DIAGRAM		
STA 119A-044		
GILPIN COUNTY		
PROJECT CODE: 12878	SHEET NUMBER:	2A

NH 0061-078
PC 15370
SHEET 03E



PT. No.	NORTHING	EASTING	ELEV.	DESCRIPTION
29	1699515.026	3029197.646	6976.106	1" YELLOW PLASTIC CAP ON # 4 REBAR M.W. RUST LS 6630 UP 0.1
30	1699616.079	3029067.861	6971.094	4"X4"X2.4' HIGH CONCRETE MONUMENT # 500
31	1699806.185	3028824.812	6992.703	1" YELLOW PLASTIC CAP ON # 4 REBAR M.W. RUST LS 6630 UP 0.5
32	1700227.055	3028285.395	7003.083	4"X4"X2' HIGH CONCRETE MONUMENT # 510
33	1701087.625	3026484.942	7067.413	3/4" RED PLASTIC CAP ON #3 REBAR CO. SIERRA PLS 22094 UP 0.2
34	1702344.194	3025094.142	7141.723	4"X4"X2.5' HIGH CONCRETE MONUMENT # 550
35	1702370.210	3024818.373	7111.935	1 1/4" RED PLASTIC CAP ON #5 REBAR CO. SIERRA LS 22094 UP 0.2
36	1702821.992	3024209.887	7143.860	4"X4"X2.5' HIGH CONCRETE MONUMENT # 550
37	1702712.481	3023997.095	7132.412	1 1/4" RED PLASTIC CAP ON #5 REBAR CO. SIERRA LS 22094 UP 0.2
38	1702901.778	3023150.111	7182.187	1 1/4" RED PLASTIC CAP ON #5 REBAR CO. SIERRA LS 22094 UP 0.5 LOOSE IN CLIFF
39	1702874.847	3023240.360	7180.658	4"X4"X2.4' HIGH CONCRETE MONUMENT # 570
41	1703655.962	3020372.539	7274.156	4"X4"X3' HIGH CONCRETE MONUMENT # 600
808	1699986.840	3028420.780	6991.161	2" ALUMINUM CAP ON #4 REBAR WSSI CP 808
809	1703453.390	3022134.020	7216.749	2" ALUMINUM CAP ON #4 REBAR WSSI CP 809



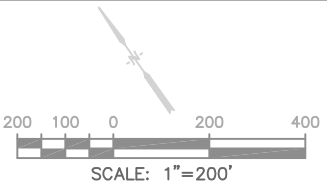
Region One
Address: 18500 E. Colfax Ave.
Aurora, CO 80011
Phone: (303) 757-9744 FAX: (303) 757-9746

Survey Coordinator: Joseph P. Conway

Sheet Revisions

mm/yy	XXXXX	XXX

S.H. 119 MP 1.60 to MP 6.55
Sec's 7,8,17,20,21,28,27,26 T.3 S. R.72 W.
GILPIN COUNTY COLORADO



Survey Control Diagram

Plan Sheet

Project Number: Proj #				
Project Location: Proj Loc.				
Project Location:				
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.	Total No. of Sheets
XXXXX	08-06-03	XXX of XXX	1	12

NOTE: THIS DREXEL BARRELL SURVEY CONTROL DIAGRAM (2003) IS SUPPLEMENT TO THE WESTERN STATES CONTROL SURVEY DIAGRAM (1999)

PROJECT COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA) IN FEET

POINT NAME	PROJECT COORDINATES		ELEV(ft)	DESCRIPTION
	NORTHNG (ft)	EASTING (ft)		
HWY 119 CM-MP 1.30	1701893.97	3025617.49	7087.517	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 1.50	1702605.63	3024692.81	7136.419	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 1.60	1702781.75	3024110.71	7142.574	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 1.65	1702785.96	3023970.30	7146.252	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 1.71	1702791.00	3023326.82	7170.746	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 1.80	1702876.16	3023055.30	7178.819	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 1.85	1703118.45	3022672.31	7193.222	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 2.11	1703704.45	3021678.22	7233.852	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 2.21	1703535.40	3021008.68	7255.191	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 2.30	1703645.77	3020486.17	7264.033	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 2.41	1703292.33	3020091.98	7274.353	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 2.51	1703127.38	3019721.63	7285.293	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 2.61	1703103.38	3019176.57	7302.911	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 2.71	1702873.35	3018930.24	7319.837	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 2.81	1702680.37	3018654.83	7333.510	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 2.85	1702859.46	3018308.07	7342.963	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 2.95	1703186.61	3017988.37	7355.414	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 3.10	1703545.66	3017402.05	7378.839	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 3.26	1703626.48	3016574.48	7409.997	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 3.39	1704211.31	3015863.15	7443.557	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 3.61	1704987.01	3015543.34	7472.973	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 3.72	1705605.23	3015725.16	7493.189	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 3.84	1705987.60	3015285.56	7511.162	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 3.96	1706562.86	3014706.97	7536.981	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 4.15	1707286.74	3014300.70	7564.554	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 4.31	1707994.13	3013813.07	7594.603	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 4.36	1708252.66	3013367.26	7615.300	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 4.45	1708849.59	3012846.13	7641.641	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 4.66	1709353.61	3011820.35	7668.355	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 5.04	1710868.27	3011289.90	7723.787	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 5.26	1712004.24	3010561.72	7756.686	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 5.56	1713025.36	3009781.37	7781.932	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 5.81	1713895.37	3009059.47	7819.523	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 5.96	1714674.62	3008274.06	7853.172	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 6.06	1715240.10	3008176.79	7873.247	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 6.10	1715349.18	3008208.10	7879.116	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 6.16	1715609.62	3007858.92	7897.242	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 6.29	1716064.87	3007672.40	7910.688	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 6.40	1716200.22	3006889.14	7938.186	CDOT TYPE 2 CONTROL MONUMENT
HWY 119 CM-MP 6.55	1716442.11	3006078.07	7959.696	CDOT TYPE 2 CONTROL MONUMENT

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 Contractors 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 were based upon existing control monuments, MP 1.30, MP 1.50, MP 2.30, MP 6.40 AND MP 6.55. Project control coordinates used were obtained from a survey by Jehn and Assoc. for the Blackhawk Sanitary Interceptor project.

BASIS OF ELEVATIONS: Project is based on a elevation of 8105.00 on NGS benchmark C164 reset 1938. The orthometric height was determined by differential levelling by the NGS in June of 1991.

COORDINATE DATUM: Coordinates on this project are for the exclusive use of the CDOT for the construction of this project and are considered Project Coordinates only.



CP - Control Point Monuments. 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.

NOTE: This control survey is for the use of the 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 restriction, as described in the instruments of record, were 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.

NOTE: No guarantee as to the accuracy of the information contained on the attached drawing is either stated or implied unless this copy bears an original signature of the professional land surveyor hereon named.

SURVEYORS STATEMENT: I, Earl F. Henderson, a Professional Land Surveyor in the State of Colorado, hereby state that this Control Survey Diagram was prepared under my direct supervision this 8th day of July 2003, from a field survey performed under my supervision 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.

EARL F. HENDERSON PLS #34933



COLORADO DEPARTMENT OF TRANSPORTATION



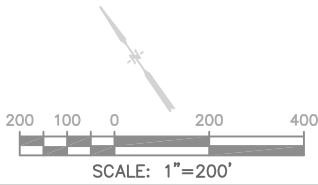
Region One
Address: 18500 E. Colfax Ave.
Aurora, CO 80011
Phone: (303) 757-9744 FAX: (303) 757-9746

Survey Coordinator: Joseph P. Conway

Sheet Revisions

mm/yy	XXXXX	XXX

S.H. 119 MP 1.60 to MP 6.55
Sec's 7,8,17,20,21,28,27,26 T.3 S. R.72 W.
GILPIN COUNTY COLORADO



Survey Control Diagram

Plan Sheet				
Project Number: Proj #				
Project Location: Proj Loc.				
Project Location:				
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.	Total No. of Sheets
XXXXX	08-06-03	XXX of XXX	3	12

GEODETTIC COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT NAME	GEODETTIC COORDINATES NAD-83(92) (CHARN)		ELLIP. HEIGHT	ELEV. (NAVD '88)m	MAPPING ANGLE	SCALE	NAD 83(92) ZONE 0502	
	LATITUDE(N)	LONGITUDE(W)					NORTHING (m)	EASTING (m)
HWY 119 CM-MP 1.30	39°45'31.79956"	105°24'45.56634"	2146.430	2160.280	0°03'18.31002"	1.000001759	518556.347	921886.542
HWY 119 CM-MP 1.50	39°45'38.83881"	105°24'57.39396"	2161.356	2175.185	0°03'10.85047"	1.000002152	518773.184	921604.799
HWY 119 CM-MP 1.60	39°45'40.58398"	105°25'04.84317"	2163.246	2177.061	0°03'06.15233"	1.000002250	518826.846	921427.436
HWY 119 CM-MP 1.65	39°45'40.62683"	105°25'06.64046"	2164.370	2178.182	0°03'05.01880"	1.000002252	518828.129	921384.654
HWY 119 CM-MP 1.71	39°45'40.68226"	105°25'14.87736"	2171.852	2185.648	0°02'59.82387"	1.000002255	518829.665	921188.590
HWY 119 CM-MP 1.80	39°45'41.52591"	105°25'18.35208"	2174.318	2188.108	0°02'57.63240"	1.000002302	518855.613	921105.859
HWY 119 CM-MP 1.85	39°45'43.92277"	105°25'23.25197"	2178.716	2192.498	0°02'54.54209"	1.000002436	518929.437	920989.165
HWY 119 CM-MP 2.11	39°45'49.72012"	105°25'35.97113"	2191.118	2204.882	0°02'46.52025"	1.000002761	519107.987	920686.271
HWY 119 CM-MP 2.21	39°45'48.05527"	105°25'44.54366"	2197.639	2211.387	0°02'41.11365"	1.000002668	519056.478	920482.267
HWY 119 CM-MP 2.30	39°45'49.14962"	105°25'51.23123"	2200.345	2214.082	0°02'36.89586"	1.000002729	519090.107	920323.062
HWY 119 CM-MP 2.41	39°45'45.66086"	105°25'56.28066"	2203.500	2217.227	0°02'33.71124"	1.000002534	518982.417	920202.955
HWY 119 CM-MP 2.51	39°45'44.03398"	105°26'01.02305"	2206.844	2220.562	0°02'30.72027"	1.000002443	518932.158	920090.111
HWY 119 CM-MP 2.61	39°45'43.80071"	105°26'08.00047"	2212.225	2225.932	0°02'26.31968"	1.000002430	518924.844	919924.035
HWY 119 CM-MP 2.71	39°45'41.52992"	105°26'11.15575"	2217.391	2231.091	0°02'24.32968"	1.000002303	518854.756	919848.980
HWY 119 CM-MP 2.81	39°45'39.62531"	105°26'14.68295"	2221.564	2235.258	0°02'22.10511"	1.000002196	518795.956	919765.063
HWY 119 CM-MP 2.85	39°45'41.39693"	105°26'19.12012"	2224.453	2238.140	0°02'19.30663"	1.000002295	518850.524	919659.408
HWY 119 CM-MP 2.95	39°45'44.63103"	105°26'23.20970"	2228.253	2241.935	0°02'16.72738"	1.000002476	518950.204	919561.998
HWY 119 CM-MP 3.10	39°45'48.18197"	105°26'30.71220"	2235.404	2249.075	0°02'11.99563"	1.000002675	519059.605	919383.349
HWY 119 CM-MP 3.26	39°45'48.98550"	105°26'41.30532"	2244.918	2258.572	0°02'05.31466"	1.000002720	519084.230	919131.194
HWY 119 CM-MP 3.39	39°45'54.76735"	105°26'50.40674"	2255.160	2268.801	0°01'59.57449"	1.000003045	519262.424	918914.457
HWY 119 CM-MP 3.61	39°46'02.43249"	105°26'54.49516"	2264.123	2277.767	0°01'56.99597"	1.000003477	519498.775	918817.012
HWY 119 CM-MP 3.72	39°46'08.53902"	105°26'52.16297"	2270.286	2283.929	0°01'58.46685"	1.000003822	519687.143	918872.412
HWY 119 CM-MP 3.84	39°46'12.31900"	105°26'57.78802"	2275.772	2289.407	0°01'54.91919"	1.000004036	519803.649	918738.469
HWY 119 CM-MP 3.96	39°46'18.00521"	105°27'05.19140"	2283.651	2297.276	0°01'50.24996"	1.000004359	519978.926	918562.175
HWY 119 CM-MP 4.15	39°46'25.15870"	105°27'10.38785"	2292.063	2305.681	0°01'46.97261"	1.000004765	520199.488	918438.388
HWY 119 CM-MP 4.31	39°46'32.14960"	105°27'16.62643"	2301.236	2314.840	0°01'43.03801"	1.000005164	520415.025	918289.810
HWY 119 CM-MP 4.36	39°46'34.70585"	105°27'22.33264"	2307.554	2321.148	0°01'39.43916"	1.000005310	520493.798	918153.975
HWY 119 CM-MP 4.45	39°46'40.60548"	105°27'29.00139"	2315.593	2329.177	0°01'35.23325"	1.000005648	520675.679	917995.189
HWY 119 CM-MP 4.66	39°46'45.58924"	105°27'42.13242"	2323.758	2337.319	0°01'26.95164"	1.000005934	520829.250	917682.641
HWY 119 CM-MP 5.04	39°47'00.55503"	105°27'48.91652"	2340.663	2354.215	0°01'22.67298"	1.000006797	521290.758	917521.016
HWY 119 CM-MP 5.26	39°47'11.78025"	105°27'58.23520"	2350.703	2364.243	0°01'16.79579"	1.000007447	521636.881	917299.145
HWY 119 CM-MP 5.56	39°47'21.87079"	105°28'08.22339"	2358.411	2371.938	0°01'10.49634"	1.000008034	521948.009	917061.376
HWY 119 CM-MP 5.81	39°47'30.46810"	105°28'17.46439"	2369.878	2383.395	0°01'04.66814"	1.000008536	522213.096	916841.418
HWY 119 CM-MP 5.96	39°47'38.16871"	105°28'27.51974"	2380.150	2393.652	0°00'58.32634"	1.000008988	522450.528	916602.108
HWY 119 CM-MP 6.06	39°47'43.75546"	105°28'28.76339"	2386.268	2399.770	0°00'57.54198"	1.000009316	522622.827	916572.471
HWY 119 CM-MP 6.10	39°47'44.83299"	105°28'28.36202"	2388.056	2401.559	0°00'57.79512"	1.000009379	522656.063	916582.011
HWY 119 CM-MP 6.16	39°47'47.40684"	105°28'32.83306"	2393.589	2407.084	0°00'54.97528"	1.000009531	522735.417	916475.618
HWY 119 CM-MP 6.29	39°47'51.90481"	105°28'35.22031"	2397.691	2411.183	0°00'53.46966"	1.000009796	522874.129	916418.787
HWY 119 CM-MP 6.40	39°47'53.24382"	105°28'45.25141"	2406.089	2419.564	0°00'47.14316"	1.000009875	522915.369	916180.132
HWY 119 CM-MP 6.55	39°47'55.63521"	105°28'55.63849"	2412.662	2426.120	0°00'40.59213"	1.000010016	522989.072	915933.004

COORDINATE DATUM: Project coordinates are modified state plane central zone NAD '83 (92) coordinates. The combined factor used to modify the coordinates was 0.999649198



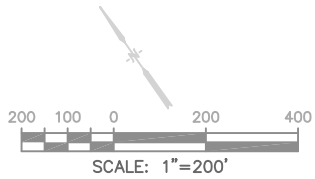
Region One
Address: 18500 E. Colfax Ave.
Aurora, CO 80011
Phone: (303) 757-9744 FAX: (303) 757-9746

Survey Coordinator: Joseph P. Conway

Sheet Revisions

mm/yy	XXXXX	XXX

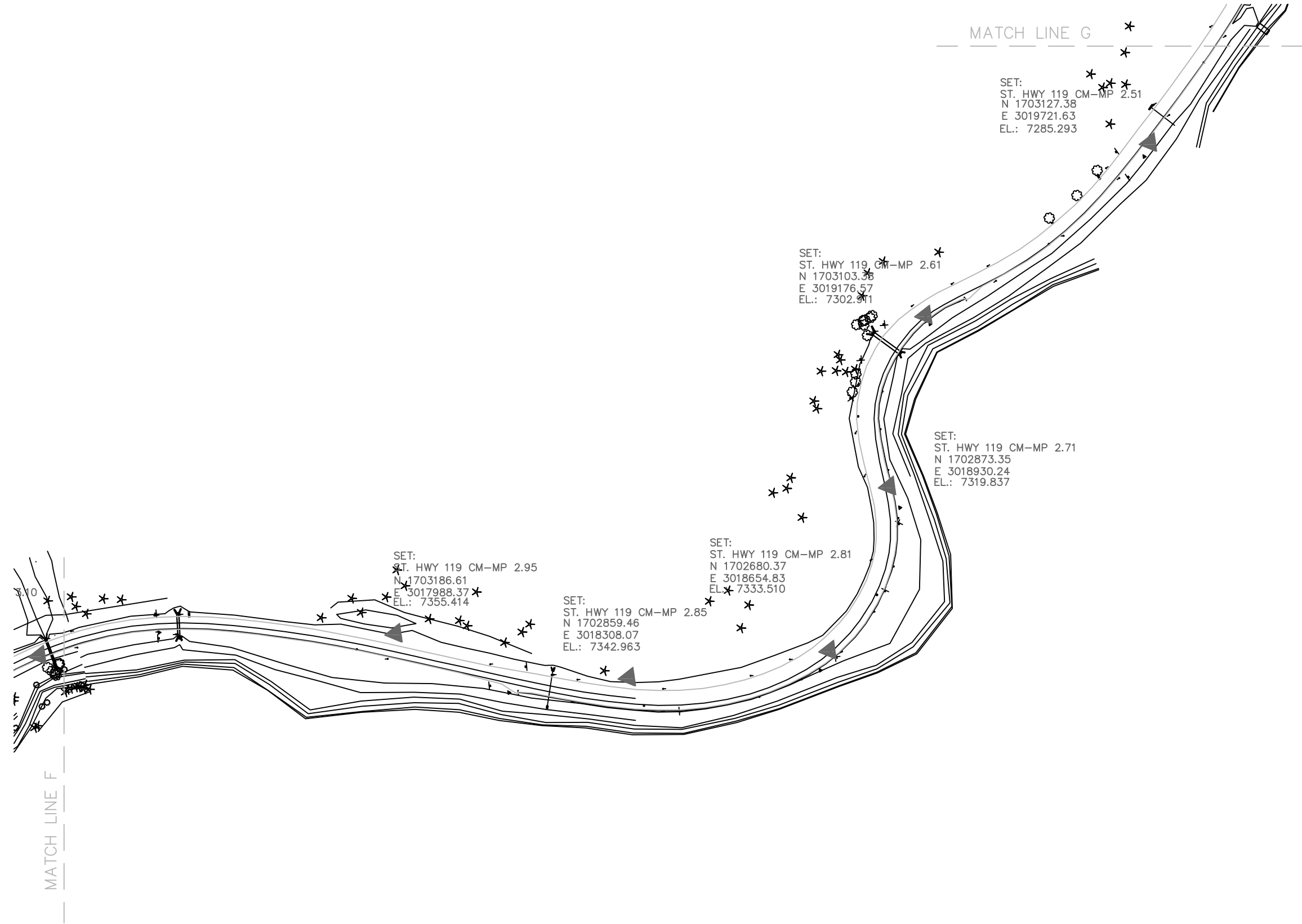
S.H. 119 MP 1.60 to MP 6.55
Sec's 7,8,17,20,21,28,27,26 T.3 S. R.72 W.
GILPIN COUNTY COLORADO



Survey Control Diagram

Plan Sheet

Project Number: Proj #				
Project Location: Proj Loc.				
Project Location:				
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.	Total No. of Sheets
XXXXX	08-06-03	XXX of XXX	10	12



COLORADO DEPARTMENT OF TRANSPORTATION



Region 1
16500 E. Colfax Ave.
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Survey Unit: Joseph P. Conway

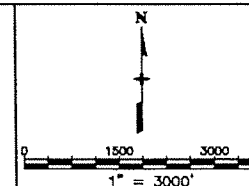
Sheet Revisions

mm/yy	xxxxx	xxx

SH 119 MP 0.05 to MP 7.30
SECTIONS 7, 8, 17, 18, 20, 21, 22, 26, 27, 28, 35, 36,
TOWNSHIP 3 SOUTH, RANGE 72 WEST OF THE 6th P.M.,

SECTION CORNER LOCATION DIAGRAM

GILPIN COUNTY, COLORADO



Section Corner Location Diagram

Title Sheet

Project Number: STA 119 - 044

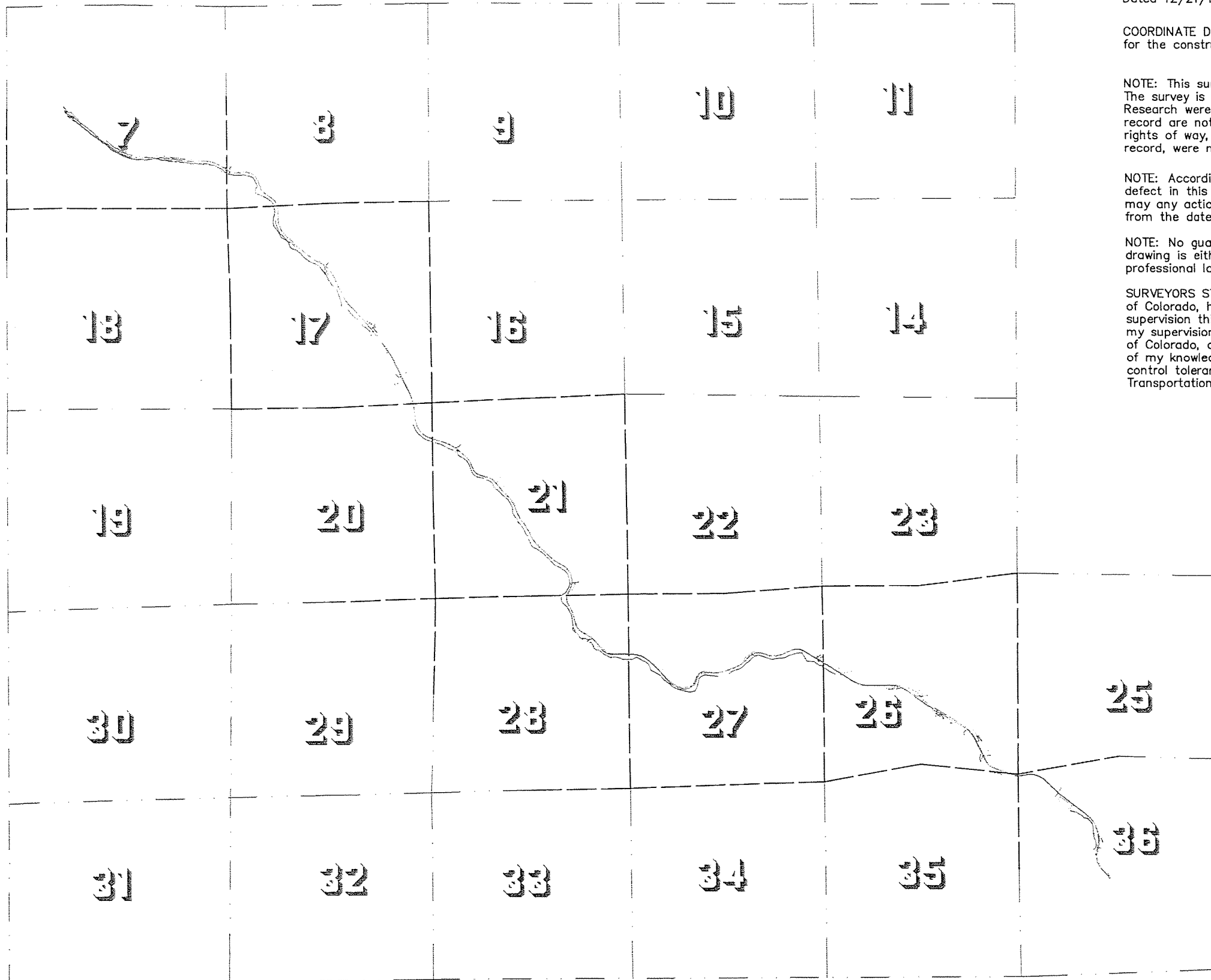
Project Location: BLACKHAWK - SOUTH

Project Location:

Project Code	Last Mod. Date	Subsect Sheets	Sheet No.	Total No. of Sheets
12878	02-18-01	1 of 6	3	6

NH 0061-078
PC 15370
SHEET 03F

TOWNSHIP 3 SOUTH - RANGE 72 WEST



BASIS OF BEARINGS: Bearings used in the calculation of coordinates are based on a grid bearing of N 52°39'31" W from NGS FOUR to NGS FARID as shown on Survey Control Diagram Dated 12/21/1999, prepared for CDOT by Western States Surveying, Inc.

COORDINATE DATUM: Coordinates on this project are for the exclusive use of the CDOT for the construction of this project and are considered Project Coordinates only.

NOTE: This survey is for the use of the 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 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 restriction, as described in the instruments of record, were not included in this 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.

NOTE: No guarantee as to the accuracy of the information contained on the attached drawing is either stated or implied unless this copy bears an original signature of the professional land surveyor hereon named.

SURVEYORS STATEMENT: I, Michael D. Heimbeck, a Professional Land Surveyor in the State of Colorado, hereby state that this Section Breakdown Diagram was prepared under my direct supervision this 19th day of February, 2001, from a field survey performed under my supervision 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 survey, as shown, meets the minimum horizontal control tolerances of a Type B Survey as listed in the Colorado Department of Transportation Survey Manual Chapter Three (Revised 4/29/92).



— — — — — = ALIQUOT LINES WITH CORNERS
— — — — — = APPROXIMATE ALIQUOT LINES

FILED CERTIFICATION: DEPOSITED THIS ___ DAY OF ___ AT ___ M., FOR INFORMATION
ONLY IN BOOK ___ OF THE LAND SURVEYS/RIGHT OF WAY
SURVEYS AT PAGE ___, REL. NUMBER ____
SIGNED _____
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Region 1
16500 E. Colfax Ave.
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Phone: (303) 757-9744 FAX: (303) 757-9748

Survey Unit: Joseph P. Conway

Sheet Revisions

mm/yy	xxxx	xxx

SH 119 MP 0.05 to MP 7.30
SECTIONS 7, 8, 17, 18, 20, 21, 22, 26, 27, 28, 35, 36,
TOWNSHIP 3 SOUTH, RANGE 72 WEST OF THE 6th P.M.,

SECTION CORNER LOCATION DIAGRAM

GILPIN COUNTY, COLORADO

Section Corner Location Diagram

Plan Sheet

Project Number: STA 119 - 044

Project Location: BLACKHAWK - SOUTH

Project Location:

Project Code	Last Mod. Date	Subest Sheets	Sheet No.	Total No. of Sheets
12878	02-18-01	2 of 6	3A	6

NH 0061-078
PC 15370
SHEET 03G

PROJECT COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT #	PROJECT COORDINATES		DESCRIPTION
	NORTH (F)	EAST (F)	
2103	1715225.42	3006898.83	SE SECTION 7 - 3" BRASS BLM CAP
3019	1709990.44	3006962.19	SW SECTION 17 - 2 1/2" BRASS CAP LS 7234
3045	1715417.57	3012109.95	NE SECTION 17 - 3" BRASS BLM CAP
999	1715236.49	3001104.95	NW SECTION 18 - 3" BRASS BLM CAP
3004	1710159.01	3012127.93	NW SECTION 21 - 3" BRASS BLM CAP
3035	1710399.48	3017155.94	NE SECTION 21 - 1 1/2" ALUM. CAP LS 865
3040	1705035.24	3012161.57	SW SECTION 21 - STONE
3023	1705752.28	3027398.27	NE SECTION 26 - 3" ALUM. CAP
3029	1700299.05	3022266.53	SW SECTION 26 - 3" BRASS BLM CAP
2184	1705395.58	3022269.38	NW SECTION 26 - STONE W/ 1 1/2" ALUM. CAP - LS 865
2708	1705158.92	3017178.42	NW SECTION 27 - STONE
3031	1700107.92	3017172.09	SW SECTION 27 - 3" BRASS BLM CAP
2002	1700514.68	3027354.02	NW SECTION 36 - 2" ALUM CAP - LS 14112
2051	1720513.07	3004206.82	N 1/4 SECTION 7 - 3" BRASS BLM CAP
2053	1717835.61	3001117.41	W 1/4 SECTION 7 - 3" BRASS BLM CAP
2105	1718150.63	3006908.98	E 1/4 SECTION 7 - 1 1/2" ALUM CAP - LS 865
2052	1717775.15	3001116.59	E 1/4 SECTION 12 - 3" BRASS BLM CAP
3015	1712789.07	3012117.18	E 1/4 SECTION 17 - BLM BRASS CAP
3017	1710031.20	3009592.60	S 1/4 SECTION 17 - BLM BRASS CAP
3043	1712614.47	3006963.09	W 1/4 SECTION 17 - 3" BRASS BLM CAP
3047	1715368.64	3009525.37	N 1/4 SECTION 17 - 3" BRASS 3" BRASS BLM CAP
4042	1704937.53	3009429.46	S 1/4 SECTION 20 - STONE
2170	1707763.59	3017169.37	E 1/4 SECTION 21 - STONE
3002	1710275.81	3014578.27	N 1/4 SECTION 21 - STONE
3007	1705101.45	3014689.71	S 1/4 SECTION 21 - 1 1/2" ALUM. CAP 865
3009	1707616.71	3012124.08	W 1/4 SECTION 21 - STONE
2151	1702992.11	3024820.64	C 1/4 SECTION 26 - #1 - 3.5" ALUM. CAP - LS 22094
2153	1702993.78	3024828.20	C 1/4 SECTION 26 - #2 - 2" ALUM. CAP - LS 14112
2159	1700761.93	3024821.95	S 1/4 SECTION 26 - #1 - STONE
2161	1700337.00	3024814.88	S 1/4 SECTION 26 - #2 - 3 1/4" ALUM. CAP - LS 22094
2178	1702854.00	3022277.80	W 1/4 SECTION 26 - STONE
2186	1703133.19	3027376.77	E 1/4 SECTION 26 - 3 1/4" ALUM. CAP - LS 22094
3025	1705570.20	3024835.50	N 1/4 SECTION 26 - #1 - 3 1/4" ALUM. CAP LS 22094
9304	1705411.82	3024796.33	N 1/4 SECTION 26 - #2 - STONE
2701	1705196.34	3019762.96	N 1/4 SECTION 27 - STONE
4006	1702699.04	3017165.47	E 1/4 SECTION 28 - STONE
4009	1700039.77	3014610.68	S 1/4 SECTION 28 - STONE
4040	1702530.83	3012078.92	W 1/4 SECTION 28 - STONE
2004	1698025.22	3027349.87	W 1/4 SECTION 36 - 3 1/4" ALUM CAP - LS 3090
2307	1700998.71	3030027.69	N 1/4 SECTION 36 - 1 1/2" ALUM. CAP - LS 865
1052	1713919.14	3001099.37	N 1/16 SECTION 18 - 3" BRASS BLM CAP

FILING CERTIFICATION:
DEPOSITED THIS _____ DAY OF _____, AT _____, FOR INFORMATION
ONLY IN BOOK _____ OF THE _____ LAND SURVEYS/RIGHT OF WAY
SURVEYS AT PAGE _____, REL _____
NUMBER _____
DEPT. _____
SIGNED _____

COLORADO DEPARTMENT OF TRANSPORTATION



Region 1
16500 E. Colfax Ave.
Aurora, CO 80011
Phone: (303) 757-9744 FAX: (303) 757-9748

Survey Unit: Joseph P. Conway

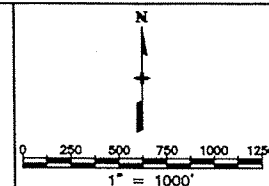
Sheet Revisions

mm/yy	xxxxx	xxx

SH 119 MP 0.05 to MP 7.30
SECTIONS 7, 8, 17, 18, 20, 21, 22, 26, 27, 28, 35, 36,
TOWNSHIP 3 SOUTH, RANGE 72 WEST OF THE 6th P.M.,

SECTION CORNER LOCATION DIAGRAM

GILPIN COUNTY, COLORADO



Section Corner Location Diagram

Plan Sheet

Project Number: STA 119 - 044

Project Location: BLACKHAWK - SOUTH

Project Location:

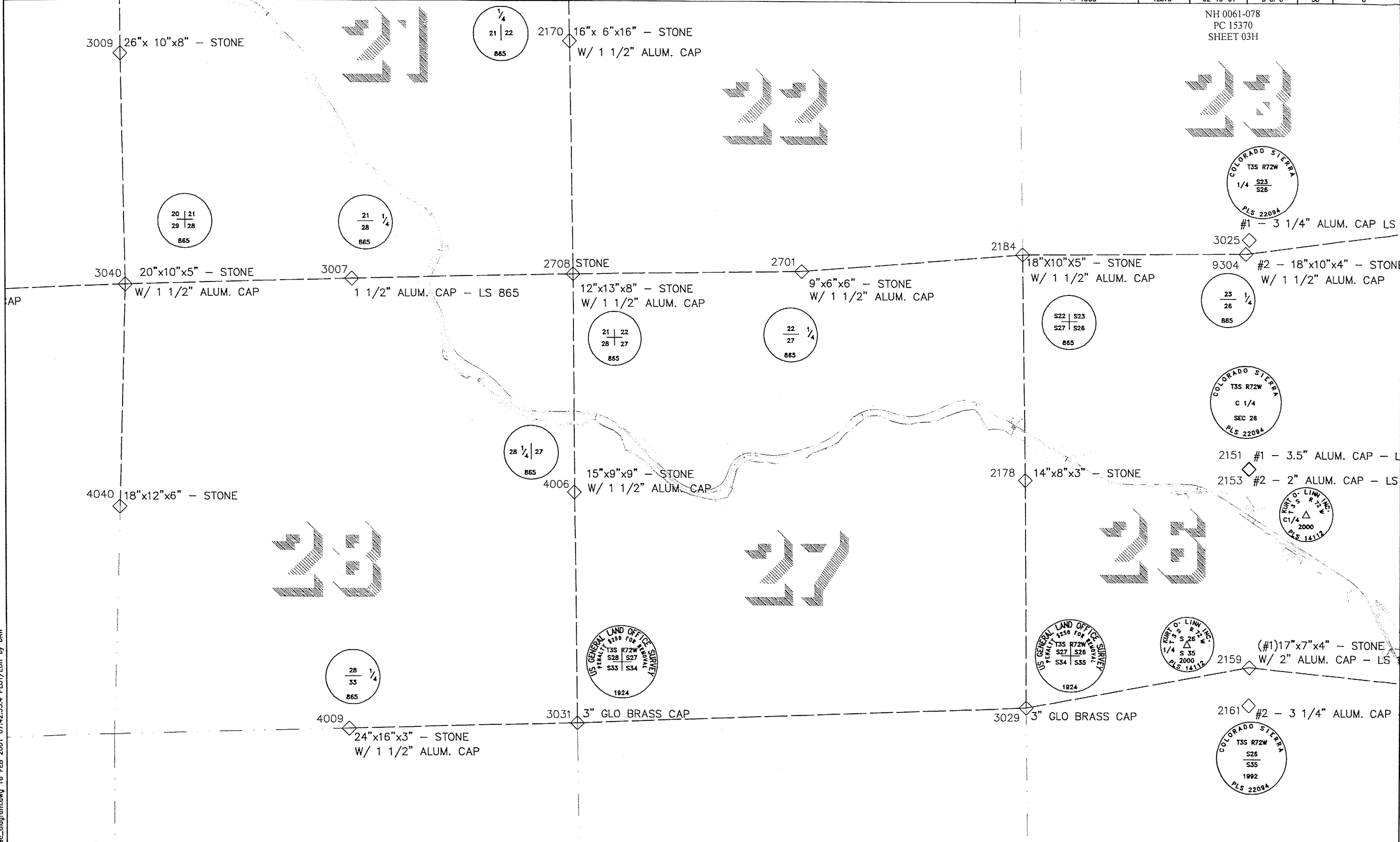
Project Code	Last Mod. Date	Subsect Sheets	Sheet No.	Total No. of Sheets
12878	02-18-01	5 of 6	30	6

NH 0061-078
PC 15370
SHEET 03H

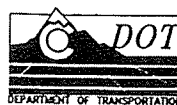
FILED CERTIFICATION: DEPOSITED THIS DAY OF AT M., FOR INFORMATION
ONLY IN BOOK OF THE LAND SURVEYS/RIGHT OF WAY
NUMBER
SURVEYS AT PAGE REC

SIGNED DEPT.

pc_diagram.dwg 18 FEB 2001 07:42:35.4 PLOT/EDIT by DAW



COLORADO DEPARTMENT OF TRANSPORTATION



Region 1
16500 E. Colfax Ave.
Aurora, CO 80011
Phone: (303) 757-9744 FAX: (303) 757-9748

Survey Unit: **Joseph P. Conway**

Sheet Revisions

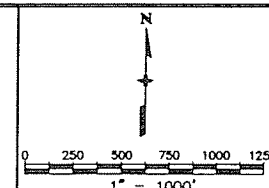
mm/yy	XXXXX	XXX

SH 119 MP 0.05 to MP 7.30
SECTIONS 7, 8, 17, 18, 20, 21, 22, 26, 27, 28, 35, 36,
TOWNSHIP 3 SOUTH, RANGE 72 WEST OF THE 6th P.M.,

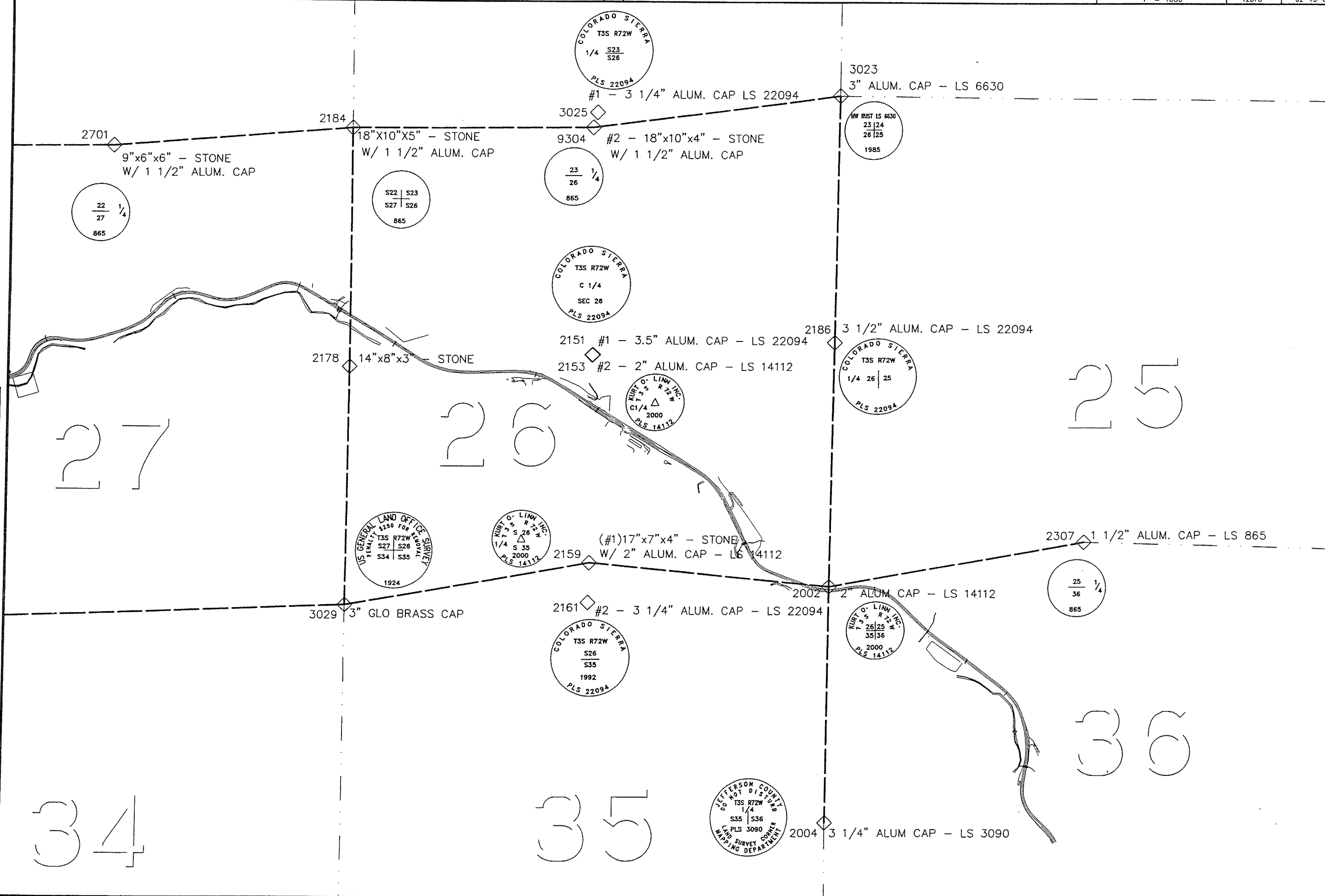
SECTION CORNER LOCATION DIAGRAM

GILPIN COUNTY, COLORADO

Section Corner Location Diagram



Project Number:	STA 119A-046
Project Location:	Sheet 3G
Project Code:	12878
Last Mod. Date:	02-19-01
Subset Sheets:	of
Sheet No.:	6
Total No. of Sheets:	6




ONLY IN BOOK OF THE COUNTY LAND SURVEYS/RIGHT OF WAY
SURVEYS AT PAGE REC NUMBER

SIGNED
DEPT.

sec_diagram.dwg 18 FEB 2001 07:42:35.4 PLOT/EDIT by DAW

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Colorado Department of Transportation



18500 East Colfax Avenue
Aurora, CO 80011
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Region 1

Sheet Revisions


Date	Description	Initials

Sheet Revisions

Sheet Revisions

Date	Description	Initials

Prepared By:



URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

Monumentation Sheet

Project Number: STA R100-140

Project Location: US6 & SH 119, CLEAR CREEK ROCKFALL

Project Location: JEFFERSON & GILPIN COUNTIES

Project Code: 16521

Last Mod. Date: 08-11-08

Subset Sheets: 1 of 1

Sheet No.: 4.01



TABULATION OF R.O.W. MARKERS
TO BE SET FOR SITE 1

Point No.	Northing	Easting	Type
517	697457.82	1029918.27	1
531	696508.30	1030416.51	1
532	696645.02	1030225.78	1
533	696688.30	1030189.46	1
534	696963.62	1030072.59	1
535	697034.50	1030039.36	1
536	697140.20	1029984.91	1
537	697576.29	1029925.62	1



TABULATION OF PERMANENT EASEMENT
MARKERS TO BE SET FOR SITE 1

Point No.	Northing	Easting	Type
499	697577.18	1029966.13	6
500	697636.31	1029925.94	6
501	697636.98	1029955.94	6
502	697420.23	1029992.86	6
503	697088.50	1030137.19	6
504	696851.24	1030300.86	6
506	696490.44	1030462.37	6



TABULATION OF TEMPORARY EASEMENT
POINTS TO BE STAKED FOR SITE 1

Point No.	Northing	Easting	Type
420	697465.64	1029985.12	
421	697352.67	1030383.30	
422	696896.51	1030513.90	
423	696647.14	1030392.23	

QUANTITY OF MONUMENTS TO BE SET

CAP TYPE	MONUMENT TYPE									
	1	1A	2	2A	3	3A	4	5	5(S)	6
REFERENCE										
ROW	8									
CONTROL										
ALIQUOT CORNER										
PERMANENT EASEMENT										12
PROJECT POINTS										
WITNESS POST (REQUIRED)	8									



TABULATION OF R.O.W. MARKERS
SET ON PROJ. NO. STA 119A-044

Point No.	Northing	Easting	Type
426	1702909.52	3018862.13	1
427	1702912.94	3018842.43	1
428	1702776.92	3018639.77	1
429	1702757.39	3018635.46	1
887	1702948.98	3018868.97	6



TABULATION OF PERMANENT EASEMENT
MARKERS TO BE SET FOR SITE 2

Point No.	Northing	Easting	Type
520	1702960.93	3018800.00	6
521	1702921.48	3018793.16	6
522	1702825.75	3018650.53	6
523	1702852.42	3018556.23	6
524	1702786.30	3018533.26	6

TABULATION OF FOUND
MONUMENTS (Site 2)

Point No.	Northing	Easting	Description
2178	1702854.00	3022277.80	W 1/4 SECTION 26 -- STONE
2708	1705158.92	3017178.42	NW SECTION 27 - STONE
4006	1702699.04	3017165.47	W 1/4 SECTION 27 - STONE

TABULATION OF MONUMENTS FOUND
BY U.R.S. (Site 1)

Point No.	Northing	Easting	Description
1004	698094.68	1032373.68	E1/4 SECTION 36 - STONE
1005	698061.11	1029949.14	C1/4 SECTION 36 - PLS 3090
1010	698138.49	1029849.44	EVERGREEN SURV. PLS 20136
50003	700998.74	1030027.69	N1/4 SECTION 36 - PLS 865
50006	696708.64	1029912.74	EMK - PLS 12405
50011	695464.67	1032379.22	SE CORNER SEC 36 - 1.5' VERTICAL STONE IN MOUND OF STONES
50015	698025.28	1027349.88	W1/4 SECTION 36 - PLS 3090
50017	697132.07	1029795.08	COUNTY CORNER #287 - CUT "+"
50020	695467.20	1029877.97	S1/4 SECTION 36 - PLS 3090

GENERAL NOTES:

- This Right-of-Way plan is not a complete boundary survey of all the adjoining property owners and is prepared for the Transportation Department purposes ONLY.
- Survey Control Points have a higher degree of accuracy than R.O.W. Markers
- Title Commitments / Policies supplied were supplied by Front Range Title of Downtown Denver, LLC. (Issued by Stewart Title Guaranty Company)
- 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 certification shown hereon.
- All R.O.W. Markers set from survey control points.
- All centerline and offset stationing is theoretical only and may not represent the centerline as constructed in the field.
- All coordinates listed are PROJECT COORDINATES.
- BASIS OF BEARINGS: Site (1)
Bearings shown herein are grid bearings based upon the Mountain Surveying and Mapping Inc. Control Diagram for the US Hwy 6 corridor to the CDOT. More particularly a line connecting the S 1/4 corner of Section 36, T. 3S., R. 72W., 6th P.M. (being a found 3-1/4" Brass Cap on pipe stamped: BLM S 1/4 Sec 36 1996), and the SE corner of Section 36, T. 3S., R. 72W., 6th P.M. (being a found 1.5' Vertical Stone in Mound of Stones) as Bearing S. 89°56'31" E, a distance of 2501.25 feet.
- BASIS OF BEARINGS: Site (2)
Bearings shown herein are grid bearings based upon the Mountain Surveying and Mapping Section Corner Location Diagram which is also based on the Western States Survey Control Diagram for the SH 119 corridor to the CDOT. More particularly a line connecting the W 1/4 corner of Section 27, T. 3S., R. 72W., 6th P.M. (being a found 15"X9"X9" Stone w/ 1-1/2" Alum. Cap stamped: 1/4 28 27 865) and the NW corner of Section 27, T. 3S., R. 72W., 6th P.M. (being a found 12"X13"X8" Stone w/ 1-1/2" Alum. Cap stamped: 21, 22, 28, 27 865) as Bearing N. 00°18'06" E., a distance of 2459.91 feet.

SURVEYOR STATEMENT (ROW PLAN)

I, Stan K. Vermilyea, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, research, calculations and evaluation of the survey evidence were performed and this Right-of-Way Plan was prepared under my responsible charge 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. 25381

Date

SURVEYOR STATEMENT (ROW MONUMENTS)

I, Stan K. Vermilyea, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, adequate research, calculations and evaluation of survey evidence were performed and the Right-of-Way monuments depicted on this Right-of-Way Plan were set under my responsible charge 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. 25381

Date

Colorado Department of Transportation



18500 East Colfax Avenue
Aurora, CO 80011
Phone: 303-365-7410 FAX: 303-365-7350

Region 1

KAW

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Prepared By:



URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

Plan Sheet

Project Number: STA R100-140
Project Location: US 6 & SH 119, CLEAR CREEK ROCKFALL
Project Location: JEFFERSON & GILPIN COUNTIES
Project Code: Last Mod. Date
16521 08-11-08
Subset Sheets
5.01 to 5.03
Sheet No.
5.01

SITE #1

JOHN M. EAGLETON
&
SANDRA J. EAGLETON
Rec. #F0125915

CLIFFORD W. DAVIS &
CHRISTIANE J. DAVIS
REC. #2006080559

DOUGLAS MOUNTAIN RANCH, FLG. #1
REC. #281886

SE 1/4 SEC 36
T3S, R72W, 6TH PM

LOT 32

LOT 26

LOT 33

NE 1/4
SEC 36
T3S, R72W,
6TH PM

FND 3 1/2" AC IN CONC ON ROCK
C1/4 S36 JEFFCO MAPPING DEPT. PLS 3090

N01° 31'54"E
2928.67'

1005

Δ = 30° 38'12"
R = 577.50'
L = 308.80'

STATE OF COLORADO
BOOK 1193, PAGE 425

N00° 08'33"E
59.83'
Δ = 11° 51'23"
R = 577.50'
L = 119.50'

N88° 38'37"W
36.43'

Rc = 577.50'
Δc = 5° 57'28"
Lc = 60.05'
C = 60.02'
CB = S0° 18'12"W

TIE: #537 TO S 1/4 SEC 36 (#50020)
S01° 17'39"W, 2109.63'
for PE-110 & PE-111

Rc = 616.30'
Δc = 30° 31'52"
Lc = 328.41'
C = 324.53'
CB = N11° 50'59"W

US 6 260.05
N 697301.38
E 1029780.33
EL 6909.00

FND #6W/ 1.5" A.C.
EMK PLS 12405

TO POINT #50020

JEFFERSON COUNTY
CLEAR CREEK COUNTY

BEGIN R.O.W. PROJ. STA R100-140

STATION 482+00 +/- = 482+00 +/-
PROJECT NO. F 005-3 (6)
US 6 M.P. = 259.8
(Centerline was not determined,
Stationing is approximate.)

SW 1/4 SEC 36
T3S, R72W, 6TH PM

STATE OF COLORADO
BOOK 223, PAGE 42

Δ = 13° 33'25"
R = 1046.00'
L = 247.50'

Δ = 09° 48'35"
R = 1246.00'
L = 213.33'

TO GOLDEN

R.O.W. PROJ. F 005-3 (6)

N - S CL SEC. 36

TO I-70
US 6

GILPIN COUNTY
CLEAR CREEK COUNTY

STATE OF COLORADO
BOOK 664, PAGE 408

NW 1/4
SEC 36
T3S, R72W,
6TH PM

TO BLACKHAWK
SH 119

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Colorado Department of Transportation



18500 East Colfax Avenue
Aurora, CO 80011
Phone: 303-365-7410 FAX: 303-365-7350

Region 1

KAW

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Prepared By:



URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

Plan Sheet

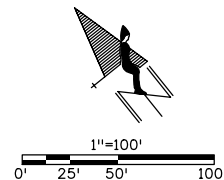
Project Number: STA R100-140			
Project Location: US6 & SH 119, CLEAR CREEK ROCKFALL			
Project Location: JEFFERSON & GILPIN COUNTIES			
Project Code: 16521	Last Mod. Date: 08-11-08	Subset Sheets: 5.01 to 5.03	Sheet No.: 5.02

SITE #1

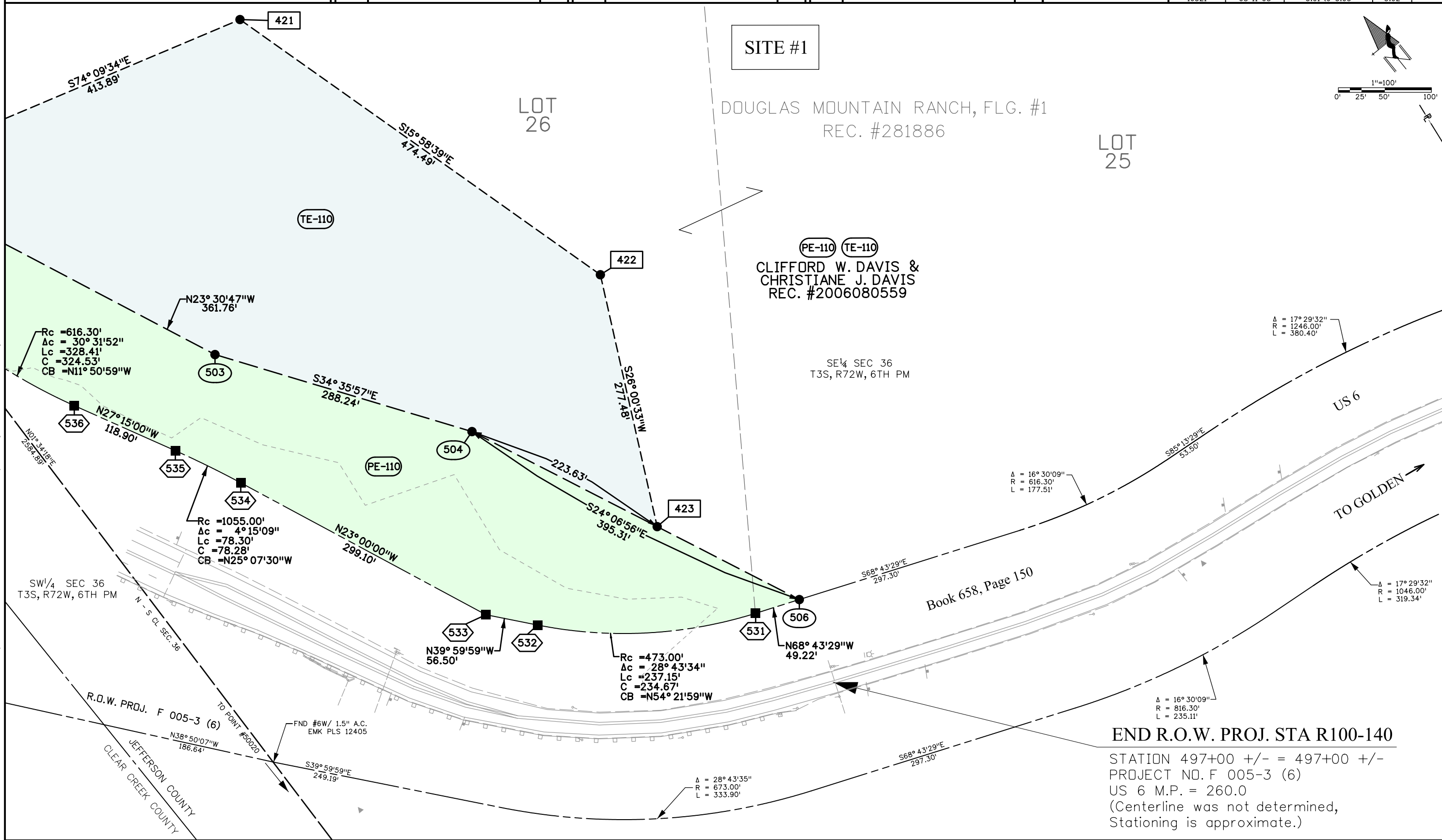
DOUGLAS MOUNTAIN RANCH, FLG. #1
REC. #281886

CLIFFORD W. DAVIS &
CHRISTIANE J. DAVIS
REC. #2006080559

SE 1/4 SEC 36
T3S, R72W, 6TH PM



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18500 East Colfax Avenue
Aurora, CO 80011
Phone: 303-365-7410 FAX: 303-365-7350

Region 1

KAW

[illegible][illegible][illegible]

Prepared By:



URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

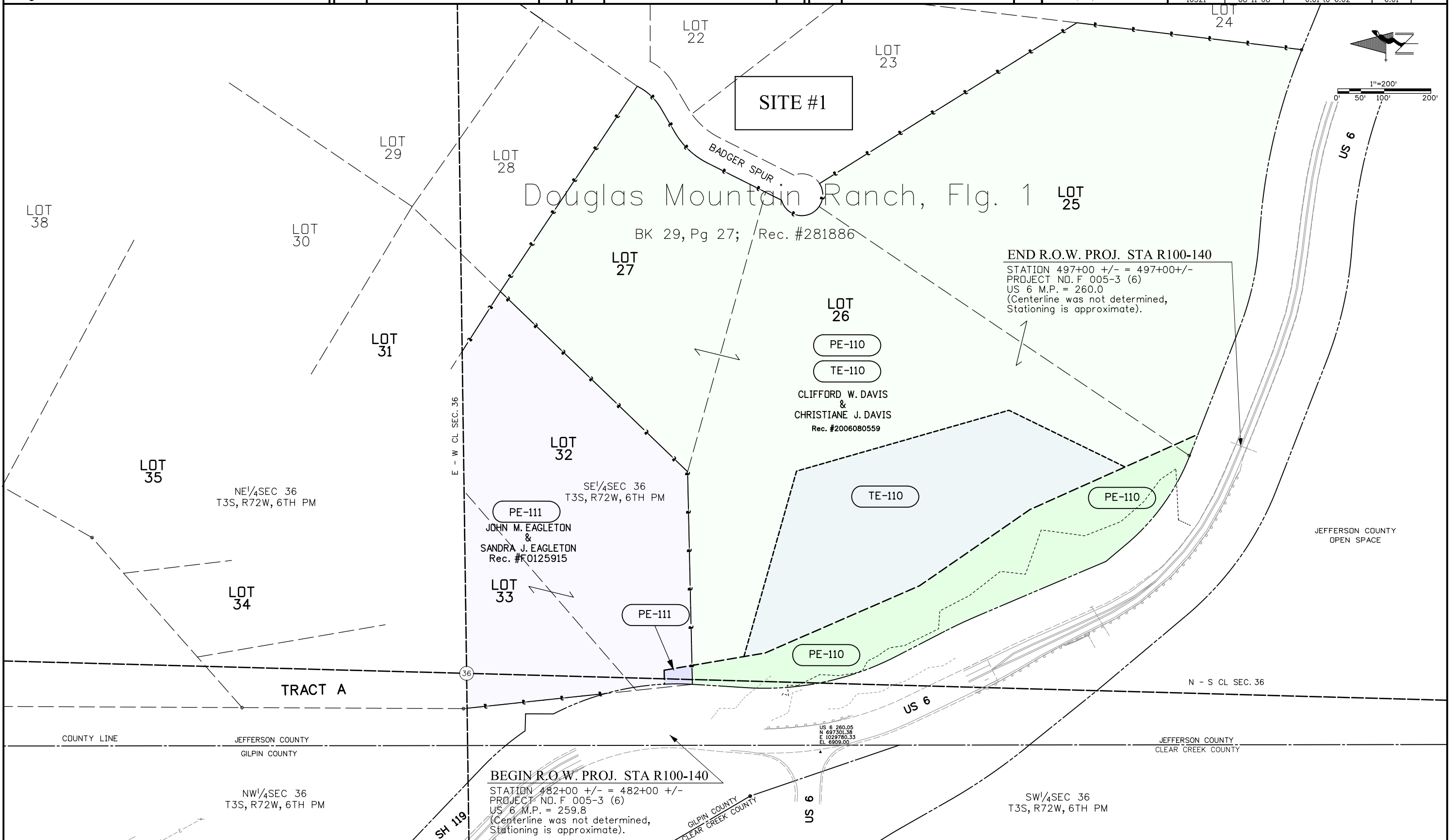
Ownership Sheet

Project Number: STA R100-140

Project Location: US6 & SH 119, CLEAR CREEK ROCKFALL

Project Location: JEFFERSON & GILPIN COUNTIES

Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
16521	08-11-08	6.01 to 6.02	6.01



Colorado Department of Transportation



18500 East Colfax Avenue
Aurora, CO 80011
Phone: 303-365-7410 FAX: 303-365-7350

Region 1

KAW

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Prepared By:



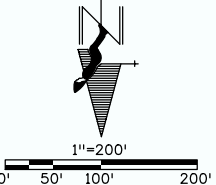
URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

Ownership Sheet

Project Number: STA R100-140			
Project Location: US6 & SH 119, CLEAR CREEK ROCKFALL			
Project Location: JEFFERSON & GILPIN COUNTIES			
Project Code: 16521	Last Mod. Date: 08-11-08	Subset Sheets: 6.01 to 6.02	Sheet No.: 6.02

SITE #2



SE 1/4 SEC. 27
T3S, R 72W,
6th P.M.

PETER SEIPP GOLTRA AS CUSTODIAN FOR
CAROLYN SEIPP GOLTRA, 1/2 INTEREST AND
ANDREW RENARD GOLTRA, 1/2 INTEREST
RECEPTION #109506

SW 1/4 SEC. 27
T3S, R 72W,
6th P.M.

END R.O.W. PROJECT STA R100-140

STATION 146+86 +/- = 146+86 +/-
PROJECT NO. STA 119A-044
SH 119 M.P. = 2.8
(Centerline was not determined,
Stationing is approximate).

BEGIN R.O.W. PROJECT STA R100-140

STATION 141+47 +/- = 141+47 +/-
PROJECT NO. STA 119A-044
SH 119 M.P. = 2.7
(Centerline was not determined,
Stationing is approximate).

BERT & GRACE L. McQUAID
BK 638 PG 139

ANNA MAE PLACER

PETER SEIPP GOLTRA AS CUSTODIAN FOR
CAROLYN SEIPP GOLTRA, 1/2 INTEREST AND
ANDREW RENARD GOLTRA, 1/2 INTEREST
RECEPTION #109506

PETER SEIPP GOLTRA AS CUSTODIAN FOR
CAROLYN SEIPP GOLTRA, 1/2 INTEREST AND
ANDREW RENARD GOLTRA, 1/2 INTEREST
RECEPTION #109506

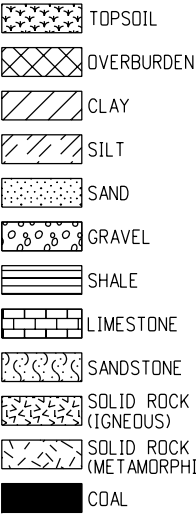
NE 1/4 SEC. 27
T3S, R 72W,
6th P.M.

BLM

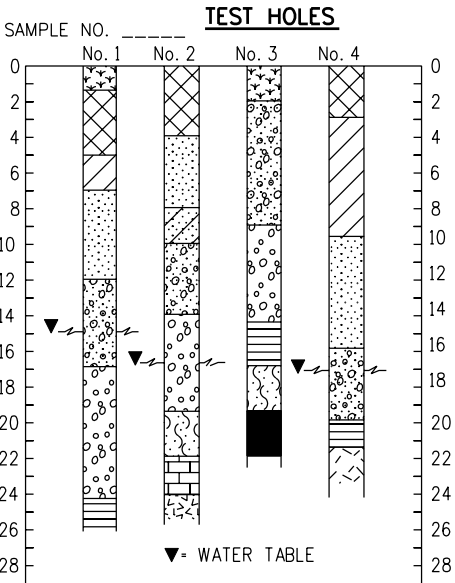
NW 1/4 SEC. 27
T3S, R 72W,
6th P.M.

8/11/2008 2:18:59 PM I:\PROJECTS\22240484_Hwy_6_Rockfall\6.0_Deliverables\16521\ROW_Survey Drawings\16521\ROW_602-Ownership.dgn

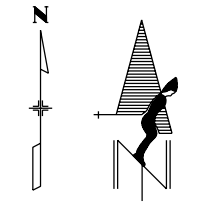
LEGEND



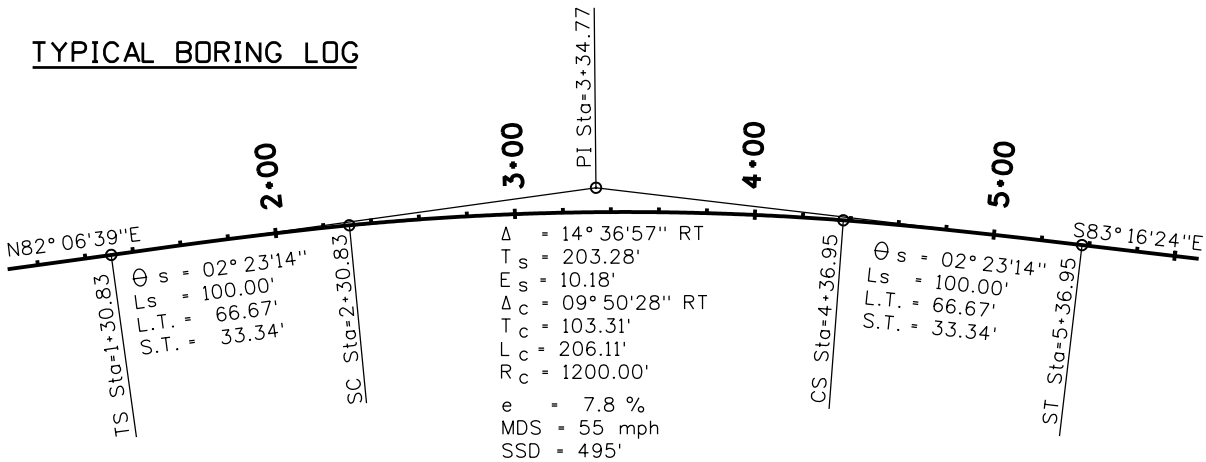
COMPOSITE MATERIALS ARE REPRESENTED BY COMBINATIONS OF THE ABOVE SYMBOLS, SUCH AS:



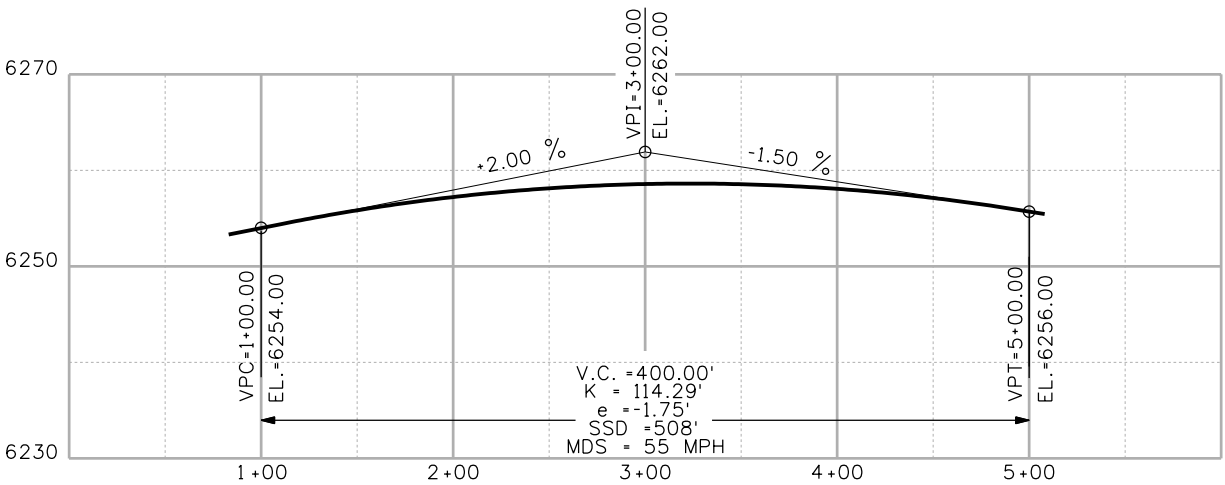
TYPICAL BORING LOG



NORTH ARROW



TYPICAL HORIZONTAL CURVE



TYPICAL VERTICAL CURVE

TERRAIN SINGLE SHOTS

TOP OF CUT

TOE OF FILL

TERRAIN



EDGE OF PAVEMENT

CENTERLINE OF DIRT ROAD

ROADWAY



SECTION CORNER



QUARTER, SIXTEENTH, AND SECTION CORNERS



SET EASMENT MONUMENT



TEMPORARY EASMENT POINT



RIGHT OF WAY MARKER

BLM

BLM MARKER

PP

PROPERTY PIN

NOAA

NOAA MARKER

Q

QUARTER, SIXTEENTH, AND SECTION CORNERS

FED

FEDERAL MONUMENT

WC

WITNESS CORNER

WC

BENCH MARK

BM

USGS MARKER

LOCAL OR PLSS MONUMENT

SECONDARY CONTROL MONUMENT

RIGHT OF WAY MARKER

N 9.88
E 3.81
EL 0.00

N 10.13
E 3.81
EL 0.00

N 10.38
E 3.81
EL 0.00

PROJECT CONTROL MONUMENT

DENSIFICATION CONTROL MONUMENT

HIGH ACCURACY REFERENCE NETWORK CONTROL MONUMENT

PERMANENT, PROPERTY, SLOPE, & UTILITY EASEMENT LINE

TEMPORARY EASEMENT LINE (EXISTING)

PROPERTY BOUNDARY LINE (EXISTING AND PROPOSED)

ACCESS CONTROL LINE

BARRIER ACCESS CONTROL LINE

RIGHT OF WAY LINE

VIRGIN RIGHT OF WAY LINE (PROPOSED)

CITY LIMIT LINE (EXISTING)

COUNTY LINE (EXISTING)

QUARTER SECTION LINE

SECTION LINE

SIXTEENTH SECTION LINE

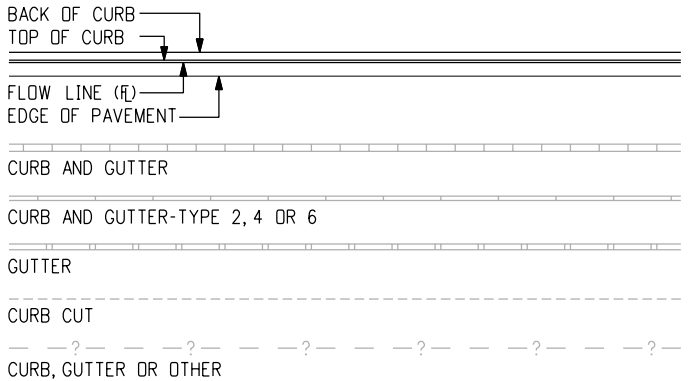
STATE LINE (EXISTING)

TOWNSHIP LINE (EXISTING)

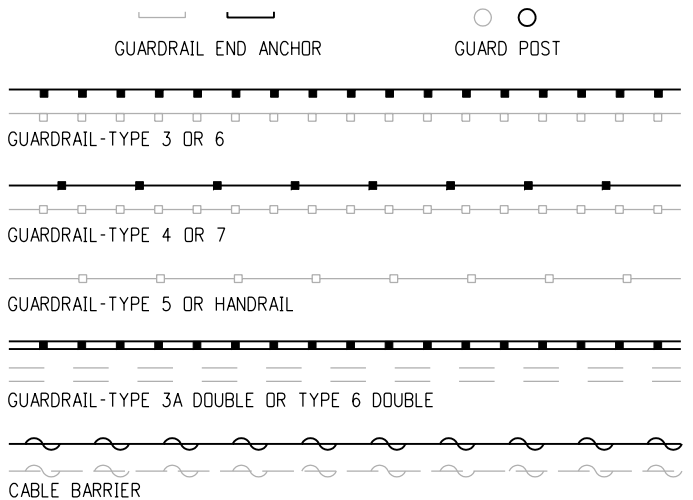
SURVEY/ROW

GENERAL NOTES

- EXISTING FEATURES SHOWN AS SCREENED WEIGHT (GRAY SCALE), EXCEPT AS NOTED WITH THE WORD (EXISTING). PROPOSED OR NEW FEATURES SHOWN AS FULL WEIGHT WITHOUT SCREENING, EXCEPT AS NOTED WITH THE WORD (PROPOSED).
- THESE SYMBOLS ARE INTENDED TO EXPLAIN THE VARIOUS TOPOGRAPHIC FEATURES INVOLVED ON THE DESIGN PLAN SHEETS WHICH ARE PREPARED AT VARIOUS SCALES. NOTES ARE ADDED WHERE NECESSARY TO CLARIFY THE SYMBOL. A LEGEND IS PROVIDED IN THE PLANS FOR SYMBOLS NOT SHOWN ON THE STANDARD SYMBOLS SHEETS.
- GUARDRAIL, CURB AND GUTTER, ETC., ARE REPRESENTED BY A SYMBOL WITH TYPE GIVEN BY NOTE.



CURB AND GUTTER



GUARDRAIL

Computer File Information

Creation Date: 07/04/06 Initials: SRJ
Last Modification Date: 07/04/06 Initials: LTA
FullPath: www.dot.state.co.us/DesignSupport/
Drawing File Name: 100010103.dgn
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English



Sheet Revisions

Date: Comments

Colorado Department of Transportation



4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820

Project Development Branch

SRJ/LTA

STANDARD SYMBOLS

Issued By: Project Development Branch on July 04, 2006

STANDARD PLAN NO.

M-100-1

Sheet No. 1 of 3

ROCK, MASONRY OR MECHANICALLY STABILIZED WALL (FACE)

BRIDGE CURB

BRIDGE RAIL

BRIDGE RAIL-TYPE 3A

FLOW LINE CBC

STRUCTURES MISCELLANEOUS

STRUCTURE

MISCELLANEOUS BUILDING STRUCTURE (PRIMARY)

MISCELLANEOUS STRUCTURE (SECONDARY)

FOUNDATION OR PAD (CONCRETE OR BLOCK)

BUILDING STRUCTURES

RR TELEGRAPH POLE

RR SWITCH

RR GUY POLE

RR SIGNALS WITH OR WITHOUT GATE

RR CROSS BUCK SIGN

RR SIGNAL CONTROLLER CABINET

RR MISCELLANEOUS SYMBOL

RR TRACK CENTERLINE

RAILROAD

BOULDER UNDER 6FT

GEOLOGY MISC SYMBOL

MINESHAFT SYMBOL

ROCK OUTCROP

BOULDER FIELD OR ROCK OVERHANG

GEOLOGY

COMBINATION WIRE FENCE WITH GATE

CHAIN LINK FENCE WITH GATE

BARBED WIRE FENCE WITH GATE

SOUND OR BARRIER FENCE WITH GATE

DEER FENCE WITH GATE WITH GATE

WOOD FENCE WITH GATE

SNOW FENCE WITH GATE

SILT FENCE

DEBRIS FENCE

FENCE

DECIDUOUS TREE

DECIDUOUS SHRUB

TEETER TOTTER SYMBOL

SWING SET SYMBOL

CONIFEROUS TREE

CONIFEROUS SHRUB

MISCELLANEOUS TREES

BENCH

SPRINKLER HEAD

TREES GROVE

HEDGE OR SHRUB GROVE

EDGE OF WETLANDS

LANDSCAPING

HAZARD WASTE MONITORING WELL

CONCRETE WASHOUT STRUCTURE

DROP INLET EROSION PROTECTION

ROCK CHECK DAM

SOIL RETENTION BLANKET

PIPE INLET EROSION PROTECTION

TEMPORARY BERM

STORM DRAIN INLET PROTECTION

EROSION CHECK

RIGID INLET PROTECTION

SILT DIKE

SEDIMENT TRAP/ DEWATERING STRUCTURE

EROSION LOG DITCH CHECK

EXISTING WETLAND PATTERN

TEMPORARY SLOPE DRAIN

STABILIZED CONSTRUCTION ENTRANCE

PLASTIC FENCE

SILT FENCE

DEBRIS FENCE

ENVIRONMENTAL CONCERN

HAZARDOUS WASTE SITE

NOXIOUS WEED

ENVIRONMENTAL

SANITARY SEWER MANHOLE

SANITARY SEWER MISCELLANEOUS SYMBOL

SANITARY SEWER PIPE

SANITARY SEWER PIPE MISCELLANEOUS

SANITARY SEWER

METAL PIPE WITH END SECTION

CONCRETE PIPE MISCELLANEOUS

HEADWALL

CHECK DAM UNDER 4 FT

DIVERSION BOX SYMBOL

FLOW GAUGE

DITCH WITH FLOW

EDGE OF WATER, CANALS, PONDS, STREAM OR RIVER

HEADGATE 1

SPRING SYMBOL

MISCELLANEOUS WATERWAYS

PIPES

INLET TYPE 13

INLET TYPE C

INLET TYPE D

INLET VANE GRATE

INLET TYPE R XX FT LENGTH

STORM SEWER MANHOLE

STORM SEWER MISCELLANEOUS

STORM SEWER PIPE

STORM SEWER PIPE MISCELLANEOUS

STORM SEWER

WATER SPIGOT

FIRE HYDRANT

WATER VALVE

WATER METER

WATER MANHOLE

WATER WELL SYMBOL

WATER LINE

WATER MISCELLANEOUS LINE

WATER

Computer File Information		<div><div><div><div>R-X</div><div>R-X</div><div>R-X</div><div>R-X</div></div></div></div>	Sheet Revisions		<div><div><div><p>Colorado Department of Transportation</p><p>4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820</p></div><div><p>Project Development Branch</p></div><div><p>SRJ/LTA</p></div></div></div>	<div><div><div>STANDARD SYMBOLS</div><div>Issued By: Project Development Branch July 04, 2006</div></div></div>	STANDARD PLAN NO.	
Creation Date: 07/04/06 Initials: SRJ							M-100-1	
Last Modification Date: 07/04/06 Initials: LTA								
FullPath: www.dot.state.co.us/DesignSupport/								
Drawing File Name: 100010203.dgn								
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English						Sheet No. 2 of 3		

PROPANE TANK

GAS JUNCTION BOX

GAS VAULT

GAS LINE MARKER OR AIR VENT

GAS METER LOW PRESSURE

GAS METER HIGH PRESSURE

GAS MISCELLANEOUS

GAS LIGHT

GAS VALVE HIGH OR LOW PRESSURE

GAS LINE LOW PRESSURE

GAS LINE HIGH PRESSURE

PROPANE GAS LINE

GAS LINES MISCELLANEOUS

GAS

OIL METER HIGH AND LOW PRESSURE

OIL VALVE HIGH AND LOW PRESSURE

OIL MISCELLANEOUS

OIL LINE LOW OR HIGH PRESSURE

OIL MISCELLANEOUS LINE

OIL

GRAVE HEADSTONE SYMBOL

MAIL DROP BOX

FLAG POLE

TRASH BARREL POST

GRAVE SYMBOL

RADIO STATION ANTENNA

MISCELLANEOUS TOPOGRAPHY

MISCELLANEOUS TOPOGRAPHY

CAMPSITE MARKER

TRAILER ELECTRIC HOOKUP

TRAILER DUMP STATION

CAMPFIRE RING

TRAILER SEWER INLET

TRAILER WATER HOOKUP

CAMPSITE GRILL

CAMPSITE TABLE

CAMPING

LIGHT STANDARD

HIGH MAST LIGHT STANDARD

SPOT OR FLOOD LIGHT

LIGHTING

ELECTRICAL PEDESTAL OR PULL BOX

TRANSMISSION TOWER OR WIND POWERED GENERATOR

RELOCATED LIGHT STANDARD

DECORATIVE LIGHT STANDARD

CATENARY POLE FOUNDATION

ELECTRICAL MANHOLE

POWER POLE

TRANSFORMER ON POLE

ELECTRICAL OUTLET

ELECTRICAL MISCELLANEOUS

GUY WIRE

ELECTRICAL VAULT OR TRANSFORMER

GUY POST

FIRE ALARM BOX

ELECTRICAL UNDERGROUND LINE

ELECTRICAL OVERHEAD LINE

ELECTRICAL MISCELLANEOUS LINE

ELECTRICAL

TELEPHONE GUY POLE

FIBER OPTIC CABLE MARKER

TELEPHONE MANHOLE

COMBINATION POLE-POWER

TELEPHONE MISCELLANEOUS

COMBINATION GUY POLE-POWER

TELEPHONE UNDERGROUND CONDUIT OR CABLE

FIBER OPTICS UNDERGROUND CABLE

TELEPHONE OVERHEAD LINE

TELEPHONE MISCELLANEOUS LINE

TELEPHONE

FIBER MARKER DOME

FIBER MARKER SLATE

RWIS - REMOTE WEATHER SENSOR

VMS-BUTTERFLY

VMS-GROUND

VMS-CANTILEVER

VMS-SIGN BRIDGE

ITS CONDUIT

INTELLIGENT TRANSPORTATION SYSTEM

CENTER YELLOW SOLID DOUBLE

CENTER YELLOW SOLID BROKEN (NO PASS)

4 INCH WIDE

8 INCH WIDE

LANE LINE BROKEN

LANE DROP

CHANNELIZING OR EDGE LINE

4 INCH WIDE DOTTED

8 INCH WIDE DOTTED

DOTTED BROKEN

STOP LINE

TRAFFIC STRIPING

TRAVEL DIRECTION

BARRIER LIGHT

FLAGGER

DELINEATOR-TYPE I

SEQUENCING ARROW PANEL

FLASHING BEACON

DELINEATOR-TYPE II

DELINEATOR-TYPE III

BUTTERFLY SIGN

HALF BUTTERFLY SIGN

IMPACT ATTENUATOR

SIGN ASSEMBLY

SINGLE POST SIGN

DOUBLE POST SIGN

SIGN-WITH FLASHING BEACON

ROAD CLOSURE GATE BEACON SYMBOL

ROAD CLOSURE GATE SYMBOL

DEER REFLECTORS

TRAFFIC CONTROL MISCELLANEOUS DEVICE

TRAFFIC CONTROL DEVICE

TRAFFIC CONTROL

DOUBLE MAST ARM POLE

SIGNAL SPAN WIRE POLE

SIGNAL POLE WITH MAST ARM

LUMINAIRE

SIGNAL FACE

SIGNAL FACE WITH BACKPLATE

SIGNAL CONTROLLER AND CABINET (4 FT)

TELEMETRY ANTENNA

PULL BOX

MICRODETECTOR

VIDEO DETECTION CAMERA

FIRE PREEMPTION UNIT AND TIMER

PEDESTRIAN SIGNAL FACE

PEDESTRIAN PUSH BUTTON

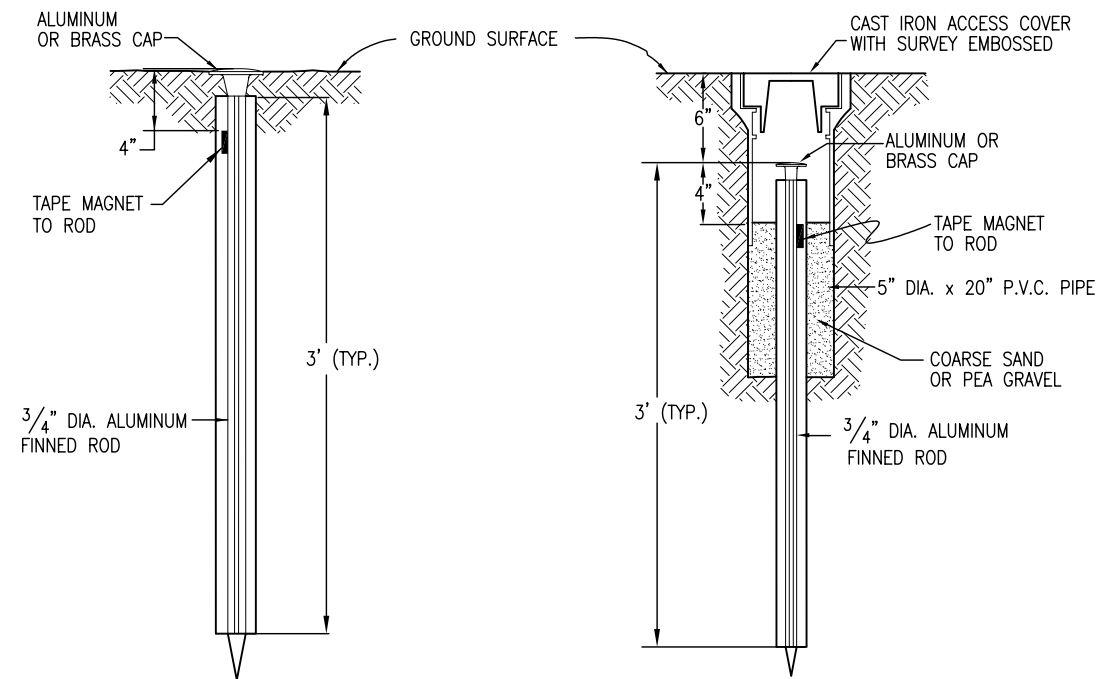
PEDESTAL POLE

PULL BOX SPECIAL

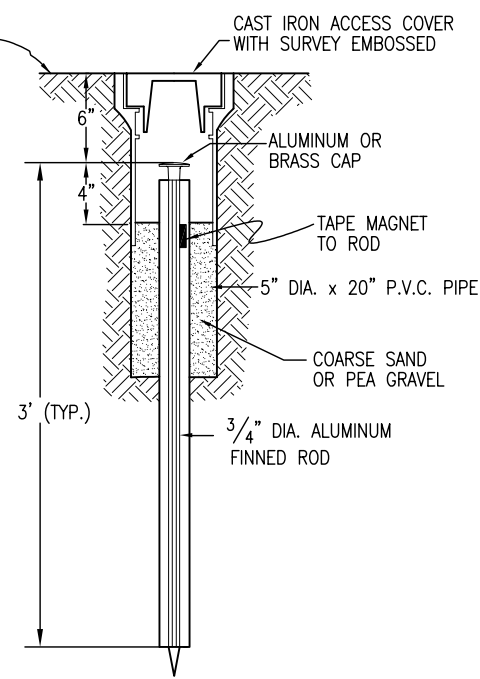
TRAFFIC CONDUIT

TRAFFIC SIGNAL

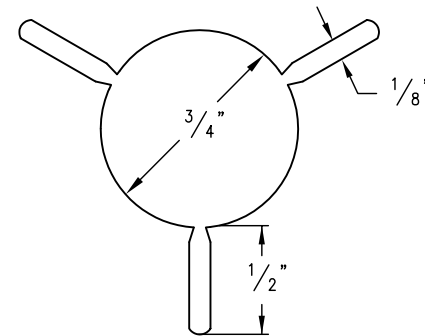
Computer File Information			Sheet Revisions		<div><div></div><div>Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820</div><div>Project Development Branch SRJ/LTA</div></div>	STANDARD SYMBOLS		STANDARD PLAN NO.
Creation Date: 07/04/06	Initials: SRJ		Date:	Comments		M-100-1		
Last Modification Date: 07/04/06	Initials: LTA							
FullPath: www.dot.state.co.us/DesignSupport/								
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CAD Ver.: MicroStation V8	Scale: Not to Scale	Units: English				Issued By: Project Development Branch on July 04, 2006		Sheet No. 3 of 3



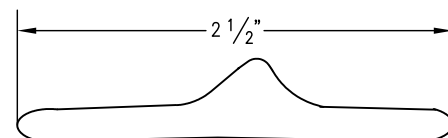
TYPE 1 MONUMENT



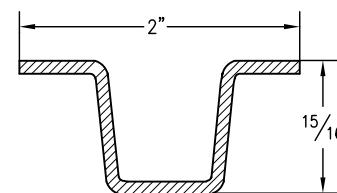
TYPE 1A MONUMENT
INCLUDES MONUMENT BOX



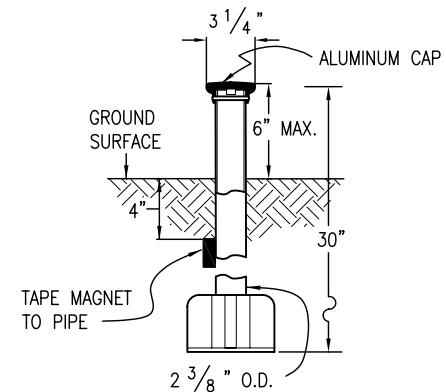
SECTION A-A



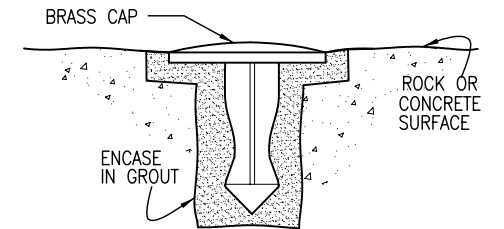
SECTION B-B



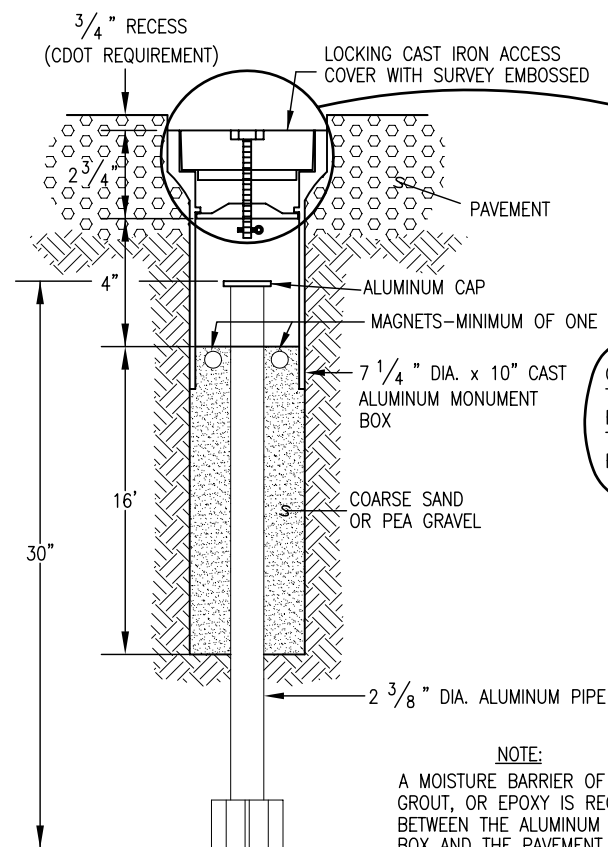
DELINEATOR POST
SECTION C-C



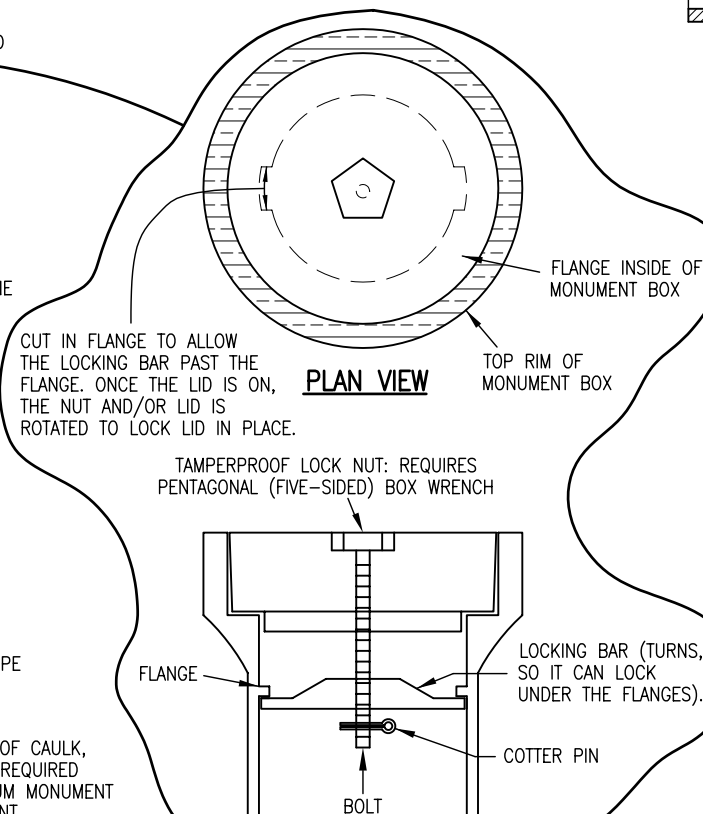
TYPE 3 MONUMENT



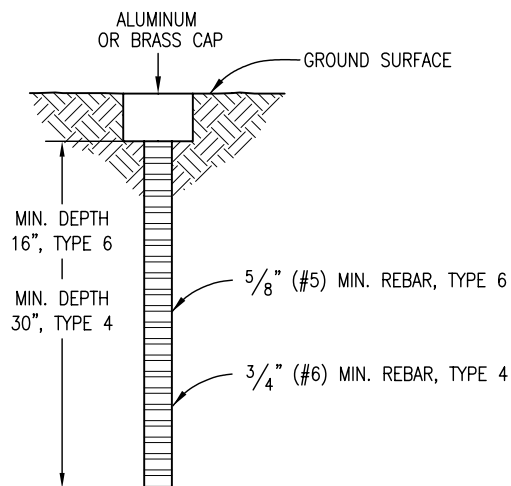
TYPE 5 MONUMENT
ALUMINUM CAP AND TYPE 5(S)
DETAILS SHOWN ON SHEET 2



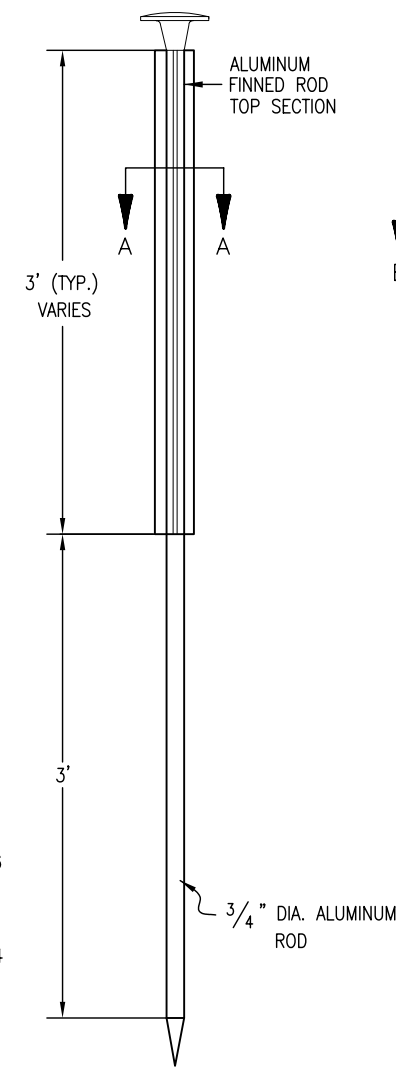
TYPE 3A MONUMENT
ROADWAY INSTALLATION
INCLUDES MONUMENT BOX



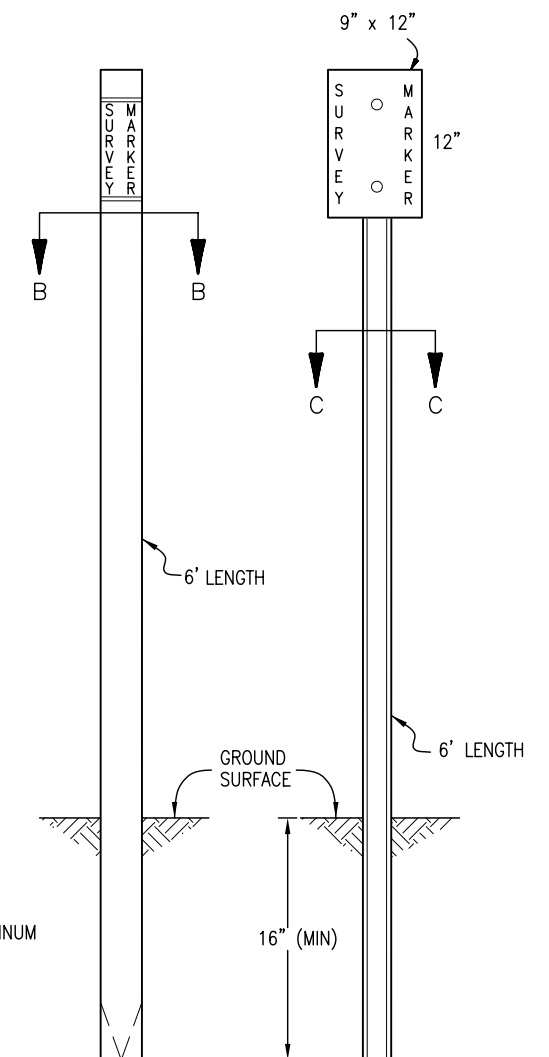
LOCKING CAST IRON ACCESS COVER



TYPE 4 AND TYPE 6 MONUMENT



TYPE 2 MONUMENT
TYPE 2A INCLUDES MONUMENT BOX



WITNESS POSTS

Computer File Information

Creation Date: 07/04/06 Initials: SJR
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CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

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(R-X)	
(R-X)	

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Project Development Branch

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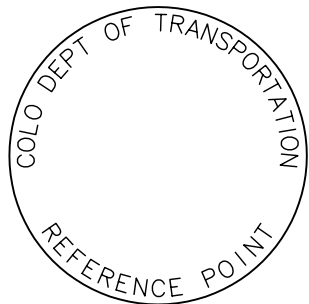
**SURVEY
MONUMENTS**

Issued By: Project Development Branch on July 04, 2006

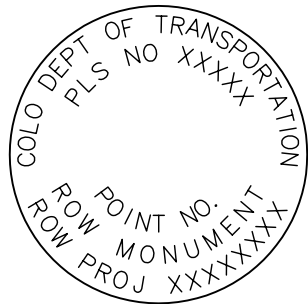
STANDARD PLAN NO.

M-629-1

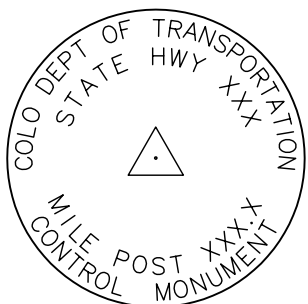
Sheet No. 1 of 2



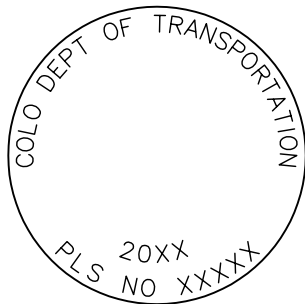
**REFERENCE
MONUMENT CAP**



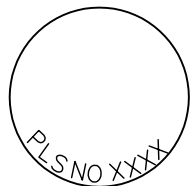
**ROW
MONUMENT CAP**



**CONTROL
MONUMENT CAP**

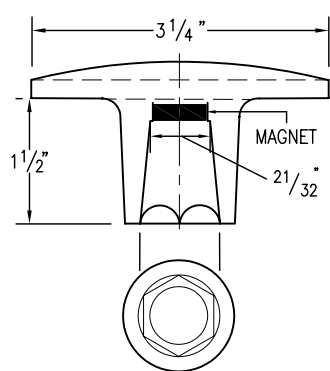


**ALIQOT CORNER
MONUMENT CAP**

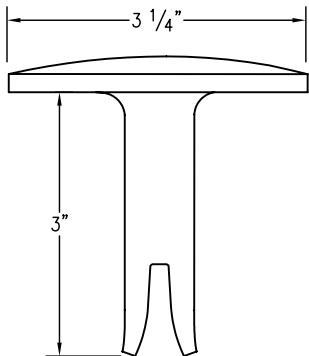


ALUMINUM CAP

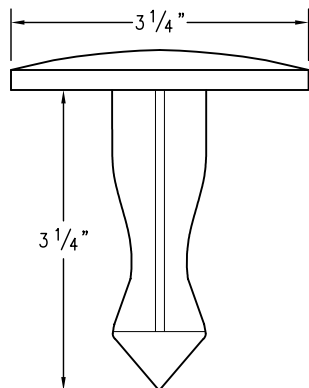
NOTE: A BLANK CAP MAY BE SUBSTITUTED IF THE APPROPRIATE CAP SHOWN ABOVE IS NOT AVAILABLE. IF A BLANK CAP IS USED, ALL INFORMATION NORMALLY INCLUDED ON THE APPROPRIATE STANDARD CAP, SHALL BE STAMPED ON THE BLANK CAP ALONG WITH SPECIFIC PROJECT INFORMATION SUCH AS PROJECT NO., DATE, POINT NO., ETC..



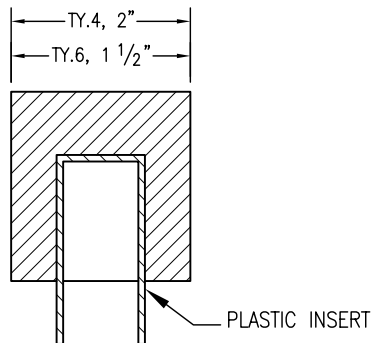
ALUMINUM CAP
USED WITH ALUMINUM ROD



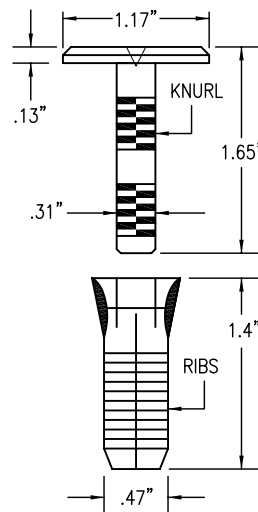
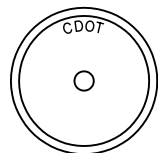
**ALUMINUM CAP
TYPE 5**
FOR PLACING IN EXISTING
CONCRETE OR ROCK



**BRASS CAP
TYPE 5**
FOR PLACING IN EXISTING
CONCRETE OR ROCK



ALUMINUM CAP



**COPPER ALLOY CAP
TYPE 5(S)**
FOR PLACING IN EXISTING
SIDEWALK, CURB, OR GUTTER

ALL MONUMENTATION MATERIALS WILL BE FURNISHED BY CDOT

THE MONUMENT TYPE SHALL MEET THE MINIMUM STANDARDS AS DETERMINED BY THE COLORADO STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS RULES (STATE BOARD RULES).

THE CDOT SURVEY COORDINATOR SHALL APPROVE ALL EXCEPTIONS FOR STAMPING MONUMENTS DIFFERING FROM THE STANDARDS.

TYPE 1 AND TYPE 1A ALUMINUM FINNED ROD MONUMENTS

THIS MONUMENT SHALL BE USED FOR ROW OR REFERENCE MONUMENTS OR MAY BE USED FOR AN ALIQUOT CORNER MONUMENT. WHEN USED AS AN ALIQUOT CORNER MONUMENT, INSTALLATION AND RECORD FILING REQUIREMENTS SHALL BE AS STATED FOR TYPE 3 AND TYPE 3A MONUMENTS.

MONUMENTS SHALL BE INSTALLED BY ATTACHING THE PROPER SIZE TIP TO ONE END OF A SECTION OF FINNED ROD, AND A 3 IN. LONG X 3/4 IN. DIA. STAINLESS STEEL ADAPTER TO THE OTHER END. THE DRIVER IS THEN PLACED OVER THE STAINLESS STEEL ADAPTER FOR THE HAMMER TO CONTACT. TYPE 1 MONUMENTS SHALL USE A MINIMUM 3 FT. SECTION OF FINNED ROD. WHEN SUBSURFACE ROCK OR CONCRETE IS ENCOUNTERED LESS THAN 3 FT. BELOW THE GROUND SURFACE, THE ROD SHALL BE EMBEDDED IN THE ROCK OR IN CONCRETE AT LEAST 6 IN. AND GROUTED IN PLACE. THE ROD MAY BE SHORTENED TO ACCOMMODATE THE CONDITIONS.

WHEN UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, ADDITIONAL SECTIONS OF ROD SHALL BE ADDED TO ACHIEVE STABILITY. HORIZONTAL AND VERTICAL STABILITY ARE REQUIRED.

TYPE 1A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 2 AND TYPE 2A ALUMINUM FINNED ROD MONUMENTS

THIS MONUMENT SHALL BE USED FOR HORIZONTAL AND VERTICAL CONTROL MONUMENTS. WHEN UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, ADDITIONAL SECTIONS OF ROD SHALL BE ADDED TO ACHIEVE STABILITY. HORIZONTAL AND VERTICAL STABILITY ARE REQUIRED. IN MOST SOIL CONDITIONS THE TYPE 2 MONUMENT IS EMBEDDED 6 FT. INTO THE GROUND.

THE MONUMENT SHALL BE INSTALLED BY FIRST ATTACHING THE PROPER SIZE TIP TO A 3 FT. LONG X 3/4 IN. DIA. ROD, THEN DRIVING THE ROD AT LEAST 30 IN. INTO THE GROUND. ADDITIONAL 3 FT. LONG X 3/4 IN. FINNED ROD SECTIONS SHALL BE ADDED AND DRIVEN FLUSH WITH THE GROUND UNTIL THE MONUMENT IS IN A STABLE POSITION. THE FINS ARE BENT OVER USING PLIERS TO ACCOMMODATE INSTALLING THE CAP. THE CAP IS FIRMLY SEATED ONTO THE LAST FINNED SECTION OF ROD USING A DEAD BLOW SLEDGE HAMMER.

TYPE 2A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 3 AND TYPE 3A ALUMINUM PIPE MONUMENTS

THIS MONUMENT SHALL BE USED FOR AN ALIQUOT CORNER MONUMENT. THE INSTALLATION OF THIS MONUMENT AND RECORD FILING SHALL BE DONE IN ACCORDANCE WITH THE STATE BOARD RULES. ALSO REFER TO THE CDOT SURVEY MANUAL AND THE BUREAU OF LAND MANAGEMENT REQUIREMENTS FOR MONUMENT INSTALLATION. THE LAND SURVEYOR'S LICENSE NUMBER AND THE YEAR SHALL BE STAMPED ON THE CAP.

TYPE 3A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 4 ALUMINUM MONUMENT

THIS MONUMENT MAY BE INSTALLED IN LIEU OF REPLACING THE ENTIRE MONUMENT WHEN REBAR IS IN PLACE AT AN ALIQUOT CORNER LOCATION. REFER TO THE STATE BOARD RULES. A MINIMUM 2 IN. DIA. CAP SHALL BE USED ON 3/4 IN. (#6) REBAR.

TYPE 5 BRASS/ALUMINUM CAP MONUMENT

THIS MONUMENT MAY BE INSTALLED IN LIEU OF ALL OTHER CDOT MONUMENTS, WHEN THE POSITION IS LOCATED IN CONCRETE OR STABLE ROCK FORMATION.

TYPE 5(S) COPPER ALLOY CAP MONUMENT – SMALL

THIS MONUMENT MAY BE INSTALLED IN LIEU OF A TYPE 5 MONUMENT, WHEN THE POSITION IS LOCATED IN A CONCRETE SIDEWALK, CURB OR GUTTER, OR WHEN SETTING A TYPE 5 WOULD COMPROMISE THE INTEGRITY OF THE RECEIVING STRUCTURE.

STAMPING REQUIREMENTS:

- "RP", WHEN THE APPLICATION IS A REFERENCE POINT.
- "ROW", POINT NUMBER, "LS", AND REGISTRATION NUMBER WHEN THE APPLICATION IS A ROW POINT.
- "CP" AND A UNIQUE IDENTIFIER PROVIDED BY THE REGION SURVEY COORDINATOR, WHEN THE APPLICATION IS A CONTROL POINT.
- "PE", POINT NUMBER, "LS", AND REGISTRATION NUMBER, WHEN THE APPLICATION IS A PERMANENT EASEMENT POINT.
- "PP" AND POINT NUMBER, WHEN THE APPLICATION IS A PROJECT POINT.

TYPE 6 ALUMINUM MONUMENT

THIS MONUMENT SHALL BE USED FOR PERMANENT EASEMENTS, PROJECT BENCH MARKS, PROJECT POINTS, AND REFERENCES. AN ALUMINUM CAP WITH A MINIMUM DIAMETER OF 1 1/2 IN., SHALL BE USED ON 5/8 IN. (#5) MINIMUM REBAR.

* WITNESS POSTS

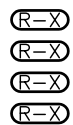
THE WITNESS POST WILL BE SUPPLIED BY CDOT AND INSTALLATION SHALL BE INCLUDED IN THE WORK. IT SHALL BE DRIVEN WITHIN 1 FT. OF THE MONUMENT WHEN POSSIBLE. A DELINEATOR POST WITH A 9 IN. X 12 IN. METAL SIGN PANEL MAY BE USED IN LIEU OF THE PLASTIC POST. THIS POST SHALL CONFORM TO STANDARD PLAN S-612-1. A REQUIRED WITNESS POST MAY BE OMITTED WITH THE APPROVAL OF THE ENGINEER IF THE WITNESS POST LOCATION IS WITHIN A TRAVELED WAY, DRIVEWAY, OR ACCESS OPENING.

MONUMENT APPLICATION

CAP TYPE	MONUMENT TYPE									
	1	1A	2	2A	3	3A	4	5	5(S)	6
REFERENCE	X	X						X	X	X
ROW	X	X						X	X	
CONTROL			X	X				X	X	
ALIQOT CORNER	X	X			X	X	X	X		
PERMANENT EASEMENT								X	X	X
PROJECT POINTS								X	X	X
WITNESS POST * (REQUIRED)	X		X	X	X			X		

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Date:	Comments

Colorado Department of Transportation



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SURVEY MONUMENTS

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STANDARD PLAN NO.

M-629-1

Sheet No. 2 of 2