



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

Survey Unit: Joseph P. Conway, PLS


Sections 2, 3, 11 & 12, T. 4 S., R. 72 W., 6th PM and  
Sections 31, 32, 33, & 34, T. 3 S., R. 72 W., and  
Sections 19, 27, 28, 29, 30, 34, 35 & 36, T. 3 S., R. 73 W. and  
Sections 24, 25, 26, 27, & 34, T. 3 S., R. 74 W., 6th PM  
CLEAR CREEK COUNTY, COLORADO

Project Number: IM 0703-244 (SEGMENTS 1-5)				
Project Location: I 70 (MP 230.8 to MP 247.8)				
Project Code: Empire Jct. - Jefferson County Line				
Project Code	Last Mod. Date	Submittal Sheets	Sheet No.	Total No. of Sheets
12691	June 20, 2002	of	3	

Project Number : FBR 0703-357  
Project Code : 17671  
Date : 03-02-2010  
Sheet No. \*\*\*

**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.



Typical Control Monument Cap  
Not to Scale

▲ CM - 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.

**GENERAL NOTES:**

**BASIS OF BEARINGS:** Bearings used in the calculation of coordinates are based on a grid bearing of  $S86^{\circ}34'18"E$  from CDOT type 2 monuments (as described below) I70 CM-MP 240.4 to I70 CM-MP 240.6 as obtained from a Global Positioning System (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN). Said grid bearing is NAD '83 (1992) Colorado State Plane (Central Zone).

**BASIS OF ELEVATIONS:** Project is based on an elevation of 2422.788 (meters) 7948.76 (feet) NAVD88 on NGS Second Order Bench Mark R 264 (NGS PID KK1151). All other Control Points on this project were established by GPS fast static observations tied to said Bench Mark R 264.

**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:** Section lines shown herein were digitized from USGS maps and are shown for graphical reference purposes only. True aliquot corners and lines were not surveyed or established for this phase of the project survey control.

**NOTE:** The tabulation of geodetic and project coordinates as shown herein are listed in both US Feet and Meters.

**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.

**SURVEYORS STATEMENT:** I, Geoffrey F. Stephenson, a Professional Land Surveyor in the State of Colorado, hereby state that this Control Survey Diagram was prepared under my direct supervision this 18th day of June, 2002, 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 as listed in the Colorado Department of Transportation Survey Manual Chapter Three (Revised 4/29/92).

Note: This Control Survey was completed under Project Number: IM 0703 -244 (Segments 1-5) Project Code: 12691 on June 20, 2002. A signed and sealed copy is on file within the records of CDOT Region One Survey office. The information contained hereon has been approved by the CDOT Region Survey Coordinator for re-use on Project Number: FBR 0703-357 Project Code: 17671. All future survey data for this project was acquired using the information on this Control Survey.

Geoffrey F. Stephenson, P.L.S. 23521



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Sheet Revisions


INTERSTATE 70 (MP 230.8 TO MP 247.8)  
Sections 2, 3, 11 & 12, T. 4 S., R. 72 W., 6th PM and  
Sections 31, 32, 33, & 34, T. 3 S., R. 72 W., and  
Sections 19, 27, 28, 29, 30, 34, 35 & 36, T. 3 S., R. 73 W. and  
Sections 24, 25, 26, 27, & 34, T. 3 S., R. 74 W., 6th PM  
CLEAR CREEK COUNTY, COLORADO

Control Survey Diagram

Tabulation of Project Control				
Project Number: IM 0703-244 (SEGMENTS 1-5)				
Project Location: I 70 (MP 230.8 to MP 247.8)				
Project Location: Empire Jct. - Jefferson County Line				
Project Code	Last Mod. Date	Subsect. Sheets	Sheet No.	Total No. of Sheets
12891	June 20, 2002	of	5A	

**Project Coordinate Parameters - METERS**

All calculations were based on point IDAHO AZ MK (NGS PID KK2023) with the following values:

Lat. 39°44'25.61860" N  
Long. 105°30'49.53665" W  
Ellipsoidal Height 2328.88  
Combined Project Factor = 0.999633623  
Combined Project Factor Reciprocal = 1.000366511

Conversion Example of State Plane Coordinates to Project Coordinates:

State Plane Northing x 1.000366511 - 304,990.129 = Project Northing  
State Plane Easting x 1.000366511 - 609,928.033 = Project Easting

IDAHO AZ MK

516,511.710 x 1.000366511 - 304,990.129 = 211,710.888  
913,222.359 x 1.000366511 - 609,928.033 = 303,629.032

\*Truncation applied in order to match previously established project and mapping coordinates

**Project Coordinate Parameters - US FEET**

All calculations were based on point IDAHO AZ MK (NGS PID KK2023) with the following values:

Lat. 39°44'25.61860" N  
Long. 105°30'49.53665" W  
Ellipsoidal Height 7640.67'  
Combined Project Factor = 0.999633623  
Combined Project Factor Reciprocal = 1.000366511

Conversion Meters to US Feet:

One meter equals 3937/1200 feet.

Conversion Example of State Plane Coordinates to Project Coordinates:

State Plane Northing in USFT x 1.000366511 - 1,000,621.79 = Project Northing in USFT  
State Plane Easting in USFT x 1.000366511 - 2,001,072.23 = Project Easting in USFT

IDAHO AZ MK

1,694,588.84' x 1.000366511 - 1,000,621.79' = 894,588.14'  
2,996,130.36' x 1.000366511 - 2,001,072.23' = 996,156.25'

\*Truncation applied in order to match previously established project and mapping coordinates

Project Number : FBR 0703-357  
Project Code : 17671  
Date : 03-02-2010  
Sheet No. \*\*\*

**GEODETTIC COORDINATE SUMMARY TABLE  
(ADJUSTED FIELD DATA) - METERS**

POINT NAME	GEODETTIC COORDINATES NAD-83(92) (CHARM)		NAD 83/92		ZONE 0502	ELLIP. HEIGHT	ELEV. (NAVD 88)	MAPPING ANGLE	GRID SCALE	DESCRIPTION
	LATITUDE	LONGITUDE	NORTHING	EASTING						
2308	39° 44' 56.71162" N	105° 40' 12.43179" W	517484.230	899821.610	2524.198	2536.648	-0° 06' 26.25433"	0.99999982	170 CM MP 230.8 CDOT TYPE 2	
2311	39° 45' 01.06229" N	105° 39' 57.12417" W	517617.738	900186.285	2515.554	2528.026	-0° 06' 16.59998"	1.00000006	170 CM MP 231.7 CDOT TYPE 2	
2314	39° 45' 07.34590" N	105° 39' 42.19956" W	517810.893	900541.935	2513.501	2525.942	-0° 06' 07.18718"	1.00000040	170 CM MP 231.4 CDOT TYPE 2	
2315	39° 45' 14.68660" N	105° 39' 37.05188" W	518037.075	900664.880	2513.131	2525.605	-0° 06' 03.94059"	1.00000081	170 CM MP 231.5 CDOT TYPE 2	
2317	39° 45' 20.10177" N	105° 39' 28.39847" W	518203.727	900871.168	2512.097	2524.569	-0° 05' 58.48298"	1.00000111	170 CM MP 231.7 CDOT TYPE 2	
2318	39° 45' 26.17488" N	105° 39' 20.86614" W	518390.722	901050.795	2522.480	2535.006	-0° 05' 53.73245"	1.00000145	HANDICAMP (NGS PID AA5360)	
2320	39° 45' 32.94831" N	105° 39' 12.07296" W	518599.270	901260.463	2498.505	2511.018	-0° 05' 48.18665"	1.00000182	170 CM MP 232.0 CDOT TYPE 2	
2323	39° 45' 39.10606" N	105° 38' 58.46766" W	518788.646	901584.632	2488.596	2501.118	-0° 05' 39.60593"	1.00000217	170 CM MP 232.3 CDOT TYPE 2	
2325	39° 45' 43.87861" N	105° 38' 48.62499" W	518935.457	901819.156	2492.838	2505.381	-0° 05' 33.39826"	1.00000243	170 CM MP 232.5 CDOT TYPE 2	
2327	39° 45' 46.44741" N	105° 38' 34.17940" W	519014.135	902163.123	2484.419	2496.979	-0° 05' 24.28758"	1.00000258	170 CM MP 232.7 CDOT TYPE 2	
2329	39° 45' 48.95183" N	105° 38' 19.40920" W	519090.831	902514.807	2473.614	2486.176	-0° 05' 14.97217"	1.00000272	170 CM MP 232.9 CDOT TYPE 2	
2331	39° 45' 51.49341" N	105° 38' 03.38998" W	519168.645	902896.215	2472.063	2484.647	-0° 05' 04.86901"	1.00000286	170 CM MP 233.1 CDOT TYPE 2	
2332	39° 45' 53.84325" N	105° 37' 51.68658" W	519240.711	903174.883	2479.906	2492.488	-0° 05' 57.48780"	1.00000299	170 CM MP 233.2 CDOT TYPE 2	
2334	39° 45' 59.20447" N	105° 37' 36.96916" W	519405.563	903525.413	2461.644	2474.267	-0° 04' 48.20568"	1.00000330	170 CM MP 233.4 CDOT TYPE 2	
2336	39° 46' 00.42085" N	105° 37' 27.62366" W	519442.771	903747.899	2454.604	2467.220	-0° 04' 42.31157"	1.00000336	170 CM MP 233.6 CDOT TYPE 2	
2338	39° 46' 05.92697" N	105° 37' 12.71566" W	519427.061	904102.705	2442.519	2455.158	-0° 04' 32.90925"	1.00000334	170 CM MP 233.8 CDOT TYPE 2	
2341	39° 46' 07.79560" N	105° 36' 57.71966" W	519360.862	904459.542	2436.317	2448.966	-0° 04' 23.45143"	1.00000322	170 CM MP 234.1 CDOT TYPE 2	
2343	39° 46' 05.97697" N	105° 36' 45.40867" W	519304.404	904752.491	2432.550	2445.212	-0° 04' 15.68701"	1.00000311	170 CM MP 234.3 CDOT TYPE 2	
2345	39° 46' 05.47171" N	105° 36' 31.10827" W	519288.406	905092.843	2419.978	2432.660	-0° 04' 06.66790"	1.00000309	170 CM MP 234.5 CDOT TYPE 2	
2346	39° 46' 04.92436" N	105° 36' 18.78069" W	519271.179	905386.239	2413.620	2426.254	-0° 03' 58.89303"	1.00000305	170 CM MP 234.6 CDOT TYPE 2	
2348	39° 46' 04.24719" N	105° 36' 11.14302" W	519250.086	905568.004	2409.357	2422.006	-0° 03' 54.07603"	1.00000302	170 CM MP 234.8 CDOT TYPE 2	
2350	39° 46' 03.18285" N	105° 35' 57.24562" W	519093.524	905898.615	2406.167	2418.907	-0° 03' 45.31108"	1.00000273	170 CM MP 235.0 CDOT TYPE 2	
2351	39° 46' 02.90449" N	105° 35' 47.03555" W	519177.203	906141.725	2400.846	2413.571	-0° 03' 38.87169"	1.00000288	170 CM MP 235.1 CDOT TYPE 2	
2353	39° 46' 02.31556" N	105° 35' 35.29619" W	519189.589	906421.157	2395.906	2408.666	-0° 03' 31.46780"	1.00000291	170 CM MP 235.3 CDOT TYPE 2	
2354	39° 46' 01.82358" N	105° 35' 28.82088" W	519050.892	906575.142	2393.991	2406.740	-0° 03' 27.38390"	1.00000266	170 CM MP 235.4 CDOT TYPE 2	
2356	39° 46' 01.47569" N	105° 35' 17.17227" W	519101.573	906852.455	2387.400	2400.188	-0° 03' 20.03724"	1.00000275	170 CM MP 235.6 CDOT TYPE 2	
2358	39° 46' 01.26738" N	105° 35' 04.22621" W	519017.751	907160.521	2387.351	2400.170	-0° 03' 11.87230"	1.00000260	170 CM MP 235.8 CDOT TYPE 2	
2359	39° 46' 01.182995" N	105° 34' 52.15869" W	519050.260	907447.786	2381.997	2394.816	-0° 03' 04.26144"	1.00000266	170 CM MP 235.9 CDOT TYPE 2	
2361	39° 46' 01.141252" N	105° 34' 41.64402" W	518944.641	907697.968	2372.712	2385.531	-0° 02' 57.62994"	1.00000246	170 CM MP 236.1 CDOT TYPE 2	
2362	39° 46' 01.11868" N	105° 34' 33.75672" W	518889.157	907885.660	2379.000	2391.806	-0° 02' 52.65550"	1.00000236	170 CM MP 236.2 CDOT TYPE 2	
2364	39° 46' 01.10909" N	105° 34' 26.13853" W	518696.907	908066.838	2364.945	2377.762	-0° 02' 47.85079"	1.00000202	170 CM MP 236.4 CDOT TYPE 2	
2366	39° 46' 01.1028319" N	105° 34' 19.05966" W	518508.424	908235.190	2360.532	2373.358	-0° 02' 43.38622"	1.00000168	170 CM MP 236.6 CDOT TYPE 2	
2367	39° 46' 01.1028319" N	105° 34' 05.25986" W	518450.050	908563.635	2359.340	2372.192	-0° 02' 34.68283"	1.00000157	170 CM MP 236.7 CDOT TYPE 2	
2369	39° 46' 01.1028319" N	105° 33' 58.49623" W	518307.174	908724.533	2356.794	2369.662	-0° 02' 30.41708"	1.00000131	170 CM MP 236.9 CDOT TYPE 2	






Tabulation of Project Control				
Project Number: IM 0703-244 (SEGMENTS 1-5)				
Project Location: I 70 (MP 230.8 to MP 247.8)				
Project Location: Empire Jct. - Jefferson County Line				
Project Code:	Last Mod. Date:	Subsect. Sheets:	Sheet No.:	Total No. of Sheets:
12891	June 20, 2002	of	30	

Project Number : FBR 0703-357  
Project Code : 17671  
Date : 03-02-2010  
Sheet No. \*\*\*

GEODETIC COORDINATE SUMMARY TABLE  
(ADJUSTED FIELD DATA) - METERS

POINT NAME	GEODETIC COORDINATES NAD-83(92) (CHARN)		NAD 83/92 ZONE 0502		ELLIP. HEIGHT	ELEV. (NAVD 88)	MAPPING ANGLE	GRID SCALE	DESCRIPTION
	LATITUDE	LONGITUDE	NORTHING	EASTING					
2464	39° 43' 19.59863" N	105° 24' 40.55965" W	514479.188	922009.703	2395.227	2408.880	0° 03' 21.46769"	0.99999460	I70 CM-MP 246.4 CDOT TYPE 2
2465	39° 43' 13.16992" N	105° 24' 36.75629" W	514281.007	922100.480	2386.531	2400.367	0° 03' 23.86643"	0.99999426	I70 CM-MP 246.5 CDOT TYPE 2
2466	39° 43' 17.14000" N	105° 24' 26.84075" W	514403.687	922336.513	2389.818	2403.676	0° 03' 30.12006"	0.99999447	I70 CM-MP 246.6 CDOT TYPE 2
2468	39° 43' 14.34297" N	105° 24' 17.55302" W	514317.651	922557.804	2361.673	2375.385	0° 03' 35.97773"	0.99999433	I70 CM-MP 246.8 CDOT TYPE 2
2470	39° 43' 09.23375" N	105° 24' 04.40224" W	514160.411	922871.184	2336.831	2350.572	0° 03' 44.27179"	0.99999406	I70 CM-MP 247.0 CDOT TYPE 2
2472	39° 43' 02.13164" N	105° 23' 53.39750" W	513941.662	923133.532	2316.453	2330.351	0° 03' 51.21237"	0.99999369	I70 CM-MP 247.2 CDOT TYPE 2
2474	39° 42' 57.36249" N	105° 23' 41.13015" W	513794.909	923425.885	2297.892	2311.814	0° 03' 58.94926"	0.99999344	I70 CM MP 247.4 CDOT TYPE 2
2476	39° 42' 53.11868" N	105° 23' 29.07420" W	513664.362	923713.194	2291.215	2305.161	0° 04' 06.55282"	0.99999322	I70 CM MP 247.6 CDOT TYPE 2
2478	39° 42' 57.86853" N	105° 23' 18.87832" W	513811.147	923955.868	2275.874	2289.692	0° 04' 12.98326"	0.99999347	I70 CM MP 247.8 CDOT TYPE 2
2571	39° 45' 36.16510" N	105° 40' 01.38696" W	518700.551	900086.793	2562.436	2574.901	-0° 06' 19.28847"	1.00000200	US40 CM MP 257.1 CDOT TYPE 2
2573	39° 45' 33.15680" N	105° 39' 51.15739" W	518607.326	900330.123	2540.010	2552.492	-0° 06' 12.83679"	1.00000184	US40 CM MP 257.3 CDOT TYPE 2
2575	39° 45' 34.92100" N	105° 39' 37.69132" W	518661.164	900650.760	2516.119	2528.619	-0° 06' 04.34388"	1.00000193	US40 CM MP 257.5 CDOT TYPE 2
2576	39° 45' 35.19756" N	105° 39' 29.60308" W	518669.356	900843.303	2511.278	2523.764	-0° 05' 59.24271"	1.00000195	US40 CM MP 257.6 CDOT TYPE 2
E447	39° 44' 33.71324" N	105° 25' 51.40884" W	516763.522	920320.603	2186.220	2199.929	0° 02' 36.78385"	0.99999856	BM E447
G447	39° 43' 58.46492" N	105° 25' 35.32777" W	515676.712	920704.361	2290.045	2303.634	0° 02' 46.92601"	0.99999666	BM G447
J447	39° 43' 17.84039" N	105° 24' 34.70923" W	514425.099	922149.092	2390.091	2403.920	0° 03' 25.15749"	0.99999451	BM J447
L445	39° 45' 47.66670" N	105° 38' 30.62329" W	519051.607	902247.826	2480.378	2492.931	-0° 05' 22.04478"	1.00000265	BM L445
P445	39° 45' 43.46593" N	105° 34' 43.23570" W	518915.479	907660.057	2373.846	2386.658	-0° 02' 58.63380"	1.00000241	BM P445
R264	39° 45' 53.27880" N	105° 36' 05.81825" W	519220.076	905694.757	2410.131	2422.788	-0° 03' 50.71649"	1.00000296	R 264 (NCS PID KK1151)
U445	39° 43' 07.08531" N	105° 22' 22.82490" W	514097.156	925290.567	2215.350	2229.269	0° 04' 48.33556"	0.99999395	BM U445
Y445	39° 44' 36.83058" N	105° 29' 06.46244" W	516857.520	915676.504	2248.069	2261.270	0° 00' 33.76558"	0.99999873	BM Y445





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CLEAR CREEK COUNTY, COLORADO

Tabulation of Project Control			
Project Number:	IM 0703-244 (SEGMENTS 1-5)		
Project Location:	I 70 (MP 230.8 to MP 247.8)		
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12991	June 20, 2002	of	21

Project Number : FBR 0703-357  
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GEODETIC COORDINATE SUMMARY TABLE  
(ADJUSTED FIELD DATA) - US FEET

POINT NAME	GEODETIC COORDINATES NAD-83(92) (CHARN)		NAD 83/92		ZONE 0502	ELLIP. HEIGHT	ELEV. (NAVD 88)	MAPPING ANGLE	GRID SCALE	DESCRIPTION
	LATITUDE	LONGITUDE	NORTHING	EASTING						
2406	39° 44' 25.39057" N	105° 30' 09.00435" W	1694565.48	2999296.61	0502	7486.29	7529.39	-0° 00' 05.67895"	0.99999811	I70 CM-MP 240.6 CDOT TYPE 2
2408	39° 44' 26.19903" N	105° 29' 57.27544" W	1694647.28	3000212.83	0502	7477.61	7520.94	0° 00' 01.71835"	0.99999816	I70 CM-MP 240.8 CDOT TYPE 2
2410	39° 44' 27.73665" N	105° 29' 45.03376" W	1694802.89	3001169.11	0502	7431.01	7474.29	0° 00' 09.43905"	0.99999824	I70 CM-MP 241.0 CDOT TYPE 2
2412	39° 44' 34.07960" N	105° 29' 36.84038" W	1695444.74	3001809.09	0502	7414.29	7457.57	0° 00' 14.60653"	0.99999858	I70 CM-MP 241.2 CDOT TYPE 2
2413	39° 44' 34.18808" N	105° 29' 28.79034" W	1695455.77	3002437.92	0502	7412.85	7456.14	0° 00' 19.68361"	0.99999859	I70 CM-MP 241.3 CDOT TYPE 2
2415	39° 44' 42.58381" N	105° 29' 16.31206" W	1696305.41	3003412.53	0502	7418.04	7461.42	0° 00' 27.55352"	0.99999905	I70 CM-MP 241.5 CDOT TYPE 2
2417	39° 44' 37.77636" N	105° 29' 04.43352" W	1695819.11	3004340.47	0502	7395.58	7439.03	0° 00' 35.04520"	0.99999879	I70 CM-MP 241.7 CDOT TYPE 2
2419	39° 44' 36.62192" N	105° 28' 53.33633" W	1695702.46	3005207.32	0502	7386.60	7430.54	0° 00' 42.04408"	0.99999872	I70 CM-MP 241.9 CDOT TYPE 2
2421	39° 44' 37.93414" N	105° 28' 39.19422" W	1695835.48	3006311.98	0502	7344.58	7388.60	0° 00' 50.96336"	0.99999879	I70 CM-MP 242.1 CDOT TYPE 2
2424	39° 44' 41.86232" N	105° 28' 15.90359" W	1696233.47	3008131.15	0502	7307.81	7351.40	0° 01' 05.65252"	0.99999901	I70 CM-MP 242.4 CDOT TYPE 2
2425	39° 44' 40.69798" N	105° 28' 02.05896" W	1696116.03	3009212.62	0502	7316.57	7360.36	0° 01' 14.38418"	0.99999894	I70 CM-MP 242.5 CDOT TYPE 2
2427	39° 44' 48.87477" N	105° 27' 52.78190" W	1696934.68	3009936.95	0502	7300.74	7344.58	0° 01' 20.23513"	0.99999939	I70 CM-MP 242.7 CDOT TYPE 2
2430	39° 44' 48.86770" N	105° 27' 40.31364" W	1696943.36	3010910.84	0502	7269.63	7314.00	0° 01' 28.09873"	0.99999939	I70 CM-MP 243.0 CDOT TYPE 2
2431	39° 44' 46.30646" N	105° 27' 32.39475" W	1696684.47	3011529.50	0502	7275.25	7319.68	0° 01' 33.09309"	0.99999925	I70 CM-MP 243.1 CDOT TYPE 2
2433	39° 44' 40.12997" N	105° 27' 21.07307" W	1696059.91	3012414.14	0502	7248.19	7292.16	0° 01' 40.23356"	0.99999891	I70 CM-MP 243.3 CDOT TYPE 2
2434	39° 44' 34.61568" N	105° 27' 11.35646" W	1695502.32	3013173.42	0502	7237.13	7281.17	0° 01' 46.36172"	0.99999861	I70 CM-MP 243.4 CDOT TYPE 2
2436	39° 44' 41.10287" N	105° 26' 53.44532" W	1696159.49	3014572.15	0502	7226.99	7271.64	0° 01' 57.65809"	0.99999897	I70 CM-MP 243.6 CDOT TYPE 2
2439	39° 44' 37.24276" N	105° 26' 43.64776" W	1695769.35	3015337.69	0502	7216.46	7261.14	0° 02' 03.83731"	0.99999876	I70 CM-MP 243.9 CDOT TYPE 2
2440	39° 44' 36.78068" N	105° 26' 33.49251" W	1695723.08	3016130.98	0502	7211.95	7256.68	0° 02' 10.24212"	0.99999873	I70 CM-MP 244.0 CDOT TYPE 2
2441	39° 44' 41.45680" N	105° 26' 24.27794" W	1696196.71	3016850.45	0502	7182.09	7226.37	0° 02' 16.05365"	0.99999899	I70 CM-MP 244.1 CDOT TYPE 2
2442	39° 44' 46.53450" N	105° 26' 16.07592" W	1696710.93	3017490.77	0502	7185.45	7229.81	0° 02' 21.22658"	0.99999926	I70 CM-MP 244.2 CDOT TYPE 2
2444	39° 44' 41.58641" N	105° 26' 06.79498" W	1696210.76	3018216.07	0502	7245.39	7290.32	0° 02' 27.07997"	0.99999899	I70 CM-MP 244.4 CDOT TYPE 2
2445	39° 44' 35.60127" N	105° 25' 59.09815" W	1695605.58	3018817.73	0502	7307.04	7351.60	0° 02' 31.93428"	0.99999867	I70 CM-MP 244.5 CDOT TYPE 2
2447	39° 44' 28.23046" N	105° 25' 57.82529" W	1694859.83	3018917.71	0502	7338.58	7382.99	0° 02' 32.73706"	0.99999827	I70 CM-MP 244.7 CDOT TYPE 2
2448	39° 44' 22.74769" N	105° 25' 52.52395" W	1694305.36	3019332.25	0502	7376.81	7421.26	0° 02' 36.08056"	0.99999797	I70 CM-MP 244.8 CDOT TYPE 2
2449	39° 44' 16.52187" N	105° 25' 53.85515" W	1693675.32	3019228.73	0502	7421.10	7465.62	0° 02' 35.24099"	0.99999763	I70 CM-MP 244.9 CDOT TYPE 2
2451	39° 44' 07.73476" N	105° 25' 46.65295" W	1692786.62	3019792.05	0502	7483.98	7528.44	0° 02' 39.78334"	0.99999716	I70 CM-MP 245.1 CDOT TYPE 2
2452	39° 43' 58.99118" N	105° 25' 38.26429" W	1691902.41	3020448.10	0502	7557.79	7602.29	0° 02' 45.07398"	0.99999669	I70 CM-MP 245.2 CDOT TYPE 2
2454	39° 43' 48.73257" N	105° 25' 34.70134" W	1690864.61	3020727.30	0502	7624.14	7668.66	0° 02' 47.32110"	0.99999614	I70 CM-MP 245.4 CDOT TYPE 2
2456	39° 43' 42.68484" N	105° 25' 24.09661" W	1690253.36	3021556.34	0502	7684.73	7729.34	0° 02' 54.00939"	0.99999582	I70 CM-MP 245.6 CDOT TYPE 2
2459	39° 43' 31.06784" N	105° 25' 13.69866" W	1689078.59	3022369.76	0502	7793.74	7838.89	0° 03' 00.56726"	0.99999521	I70 CM-MP 245.9 CDOT TYPE 2
2460	39° 43' 28.65029" N	105° 25' 03.21643" W	1688834.69	3023189.00	0502	7806.91	7851.62	0° 03' 07.17831"	0.99999508	RMCL 120 (NGS PID AA5198)
2461	39° 43' 25.51346" N	105° 24' 58.81234" W	1688517.61	3023533.40	0502	7841.35	7886.74	0° 03' 09.95591"	0.99999491	I70 CM-MP 246.1 CDOT TYPE 2
2463	39° 43' 19.50238" N	105° 24' 50.55393" W	1687909.98	3024179.25	0502	7904.64	7949.44	0° 03' 15.16441"	0.99999460	I70 CM-MP 246.3 CDOT TYPE 2
2464	39° 43' 19.59863" N	105° 24' 40.55965" W	1687920.47	3024960.17	0502	7858.34	7903.13	0° 03' 21.46769"	0.99999460	I70 CM-MP 246.4 CDOT TYPE 2
2465	39° 43' 13.16992" N	105° 24' 36.75629" W	1687270.27	3025257.99	0502	7829.81	7875.20	0° 03' 23.86643"	0.99999426	I70 CM-MP 246.5 CDOT TYPE 2
2466	39° 43' 17.14000" N	105° 24' 26.84075" W	1687672.76	3026032.38	0502	7840.60	7886.06	0° 03' 30.12006"	0.99999447	I70 CM-MP 246.6 CDOT TYPE 2
2468	39° 43' 14.34297" N	105° 24' 17.55302" W	1687390.49	3026758.40	0502	7748.26	7793.24	0° 03' 35.97773"	0.99999433	I70 CM-MP 246.8 CDOT TYPE 2
2470	39° 43' 09.23375" N	105° 24' 04.40224" W	1686874.61	3027786.54	0502	7666.75	7711.83	0° 03' 44.27179"	0.99999406	I70 CM-MP 247.0 CDOT TYPE 2
2472	39° 43' 02.13164" N	105° 23' 53.39750" W	1686156.94	3028647.26	0502	7599.90	7645.49	0° 03' 51.21237"	0.99999369	I70 CM-MP 247.2 CDOT TYPE 2
2474	39° 42' 57.36249" N	105° 23' 41.13015" W	1685675.46	3029606.42	0502	7539.00	7584.68	0° 03' 58.94926"	0.99999344	I70 CM MP 247.4 CDOT TYPE 2
2476	39° 42' 53.11868" N	105° 23' 29.07420" W	1685247.16	3030549.04	0502	7517.10	7562.85	0° 04' 06.55282"	0.99999322	I70 CM MP 247.6 CDOT TYPE 2
2478	39° 42' 57.86853" N	105° 23' 18.87832" W	1685728.74	3031345.21	0502	7466.77	7512.10	0° 04' 12.98326"	0.99999347	I70 CM MP 247.8 CDOT TYPE 2
2571	39° 45' 36.16510" N	105° 40' 01.38696" W	1701770.06	2953034.75	0502	8406.93	8447.82	-0° 06' 19.28847"	1.00000200	US40 CM MP 257.1 CDOT TYPE 2
2573	39° 45' 33.15680" N	105° 39' 51.15739" W	1701464.20	2953833.08	0502	8333.35	8374.30	-0° 06' 12.83679"	1.00000184	US40 CM MP 257.3 CDOT TYPE 2
2575	39° 45' 34.92100" N	105° 39' 37.69132" W	1701640.84	2954885.04	0502	8254.97	8295.95	-0° 06' 04.34388"	1.00000193	US40 CM MP 257.5 CDOT TYPE 2
2576	39° 45' 35.19756" N	105° 39' 29.60308" W	1701667.71	2955516.74	0502	8239.08	8280.05	-0° 05' 59.24271"	1.00000195	US40 CM MP 257.6 CDOT TYPE 2
E447	39° 44' 33.71324" N	105° 25' 51.40884" W	1695414.99	3019418.51	0502	7172.62	7217.60	0° 02' 36.78385"	0.99999856	BM E447
G447	39° 43' 58.46492" N	105° 25' 35.32777" W	1691849.35	3020677.56	0502	7513.26	7557.84	0° 02' 46.92601"	0.99999666	BM G447
J447	39° 43' 17.84039" N	105° 24' 34.70923" W	1687743.01	3025417.48	0502	7841.49	7886.86	0° 03' 25.15749"	0.99999451	BM J447
L445	39° 45' 47.66670" N	105° 38' 30.62329" W	1702921.82	2960124.74	0502	8137.71	8178.89	-0° 05' 22.04478"	1.00000265	BM L445
P445	39° 45' 43.46593" N	105° 34' 43.23570" W	1702475.20	2977881.37	0502	7788.19	7830.23	-0° 02' 58.63380"	1.00000241	BM P445
R264	39° 45' 53.27880" N	105° 36' 05.81625" W	1703474.53	2971433.55	0502	7907.24	7948.76	-0° 03' 50.71649"	1.00000296	R 264 (NGS PID KK1151)
U445	39° 43' 07.08531" N	105° 22' 22.82490" W	1686667.09	3035724.13	0502	7268.19	7313.86	0° 04' 48.33556"	0.99999395	BM U445
Y445	39° 44' 36.83058" N	105° 29' 06.46244" W	1695723.38	3004182.00	0502	7375.54	7418.85	0° 00' 33.76558"	0.99999873	BM Y445







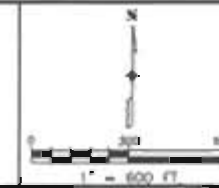
Region 1  
 Address: 18500 E. Colfax Ave.  
 Aurora, CO 80011  
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Survey Unit: Joseph P. Conway, PLS

Sheet Revisions

No.	Description

INTERSTATE 70 (MP 230.8 TO MP 247.8)  
 Sections 2, 3, 11 & 12, T. 4 S., R. 72 W., 6th PM and  
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 Sections 19, 27, 28, 29, 30, 34, 35 & 36, T. 3 S., R. 73 W. and  
 Sections 24, 25, 26, 27, & 34, T. 3 S., R. 74 W., 6th PM  
 CLEAR CREEK COUNTY, COLORADO



Control Survey Diagram				
PLAN SHEET				
Project Number: IM 0703-244 (SEGMENTS 1-5)				
Project Location: I 70 (MP 230.8 to MP 247.8)				
Project Location: Empire Jct. - Jefferson County Line				
Project Code:	Last Mod. Date:	Subst. Sheets:	Sheet No.:	Total No. of Sheets:
12891	June 20, 2002	1	34	34

Project Number : FBR 0703-357  
 Project Code : 17671  
 Date : 03-02-2010  
 Sheet No. \*\*\*



**LEGEND**

- ▲ INDICATES SURVEY CONTROL MONUMENT (MILE POST CORRESPONDS TO POINT NUMBER)
- ⊙ INDICATES NGS HARN STATION
- INDICATES BENCH MARK

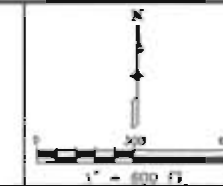


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Rev.	Description

INTERSTATE 70 (MP 230.8 TO MP 247.8)  
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 CLEAR CREEK COUNTY, COLORADO



PLAN SHEET				
Project Number: IM 0703-244 (SEGMENTS 1-5)				
Project Location: I 70 (MP 230.8 to MP 247.8)				
Project Location: Empire Jct. - Jefferson County Line				
Project Code	Last Mod. Date	Subsect Sheets	Sheet No.	Total No. of Sheets
12891	June 28, 2002	of	31	

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SECTION 23  
 T 3 S R 74 W

SECTION 26  
 T 3 S R 74 W



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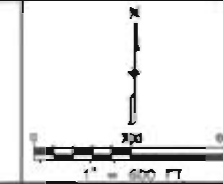
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Sheet Revisions

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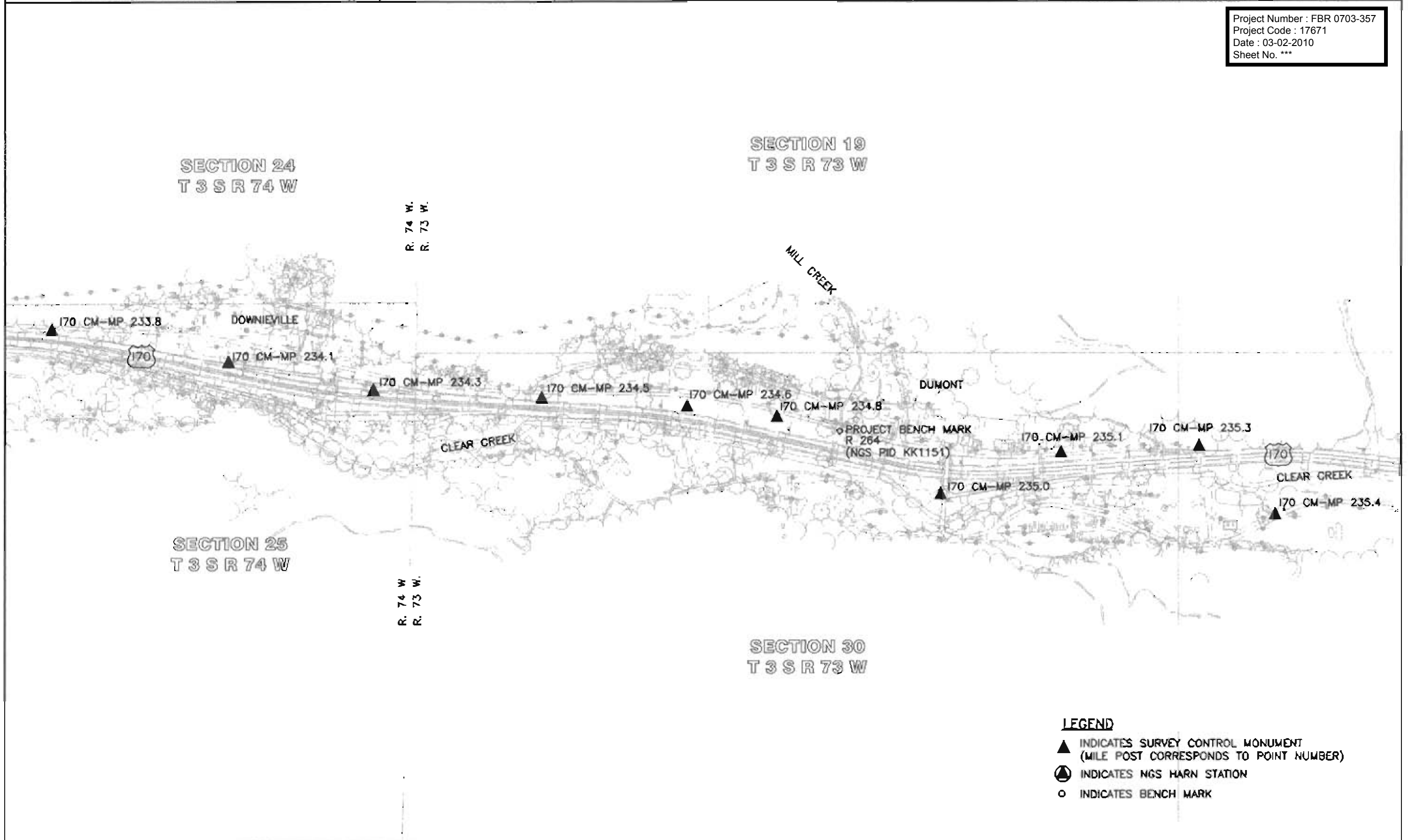
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 CLEAR CREEK COUNTY, COLORADO



Control Survey Diagram

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Project Number: IM 0703-244 (SEGMENTS 1-5)				
Project Location: I 70 (MP 230.8 to MP 247.8)				
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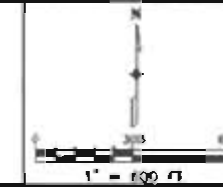
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Sheet Revisions

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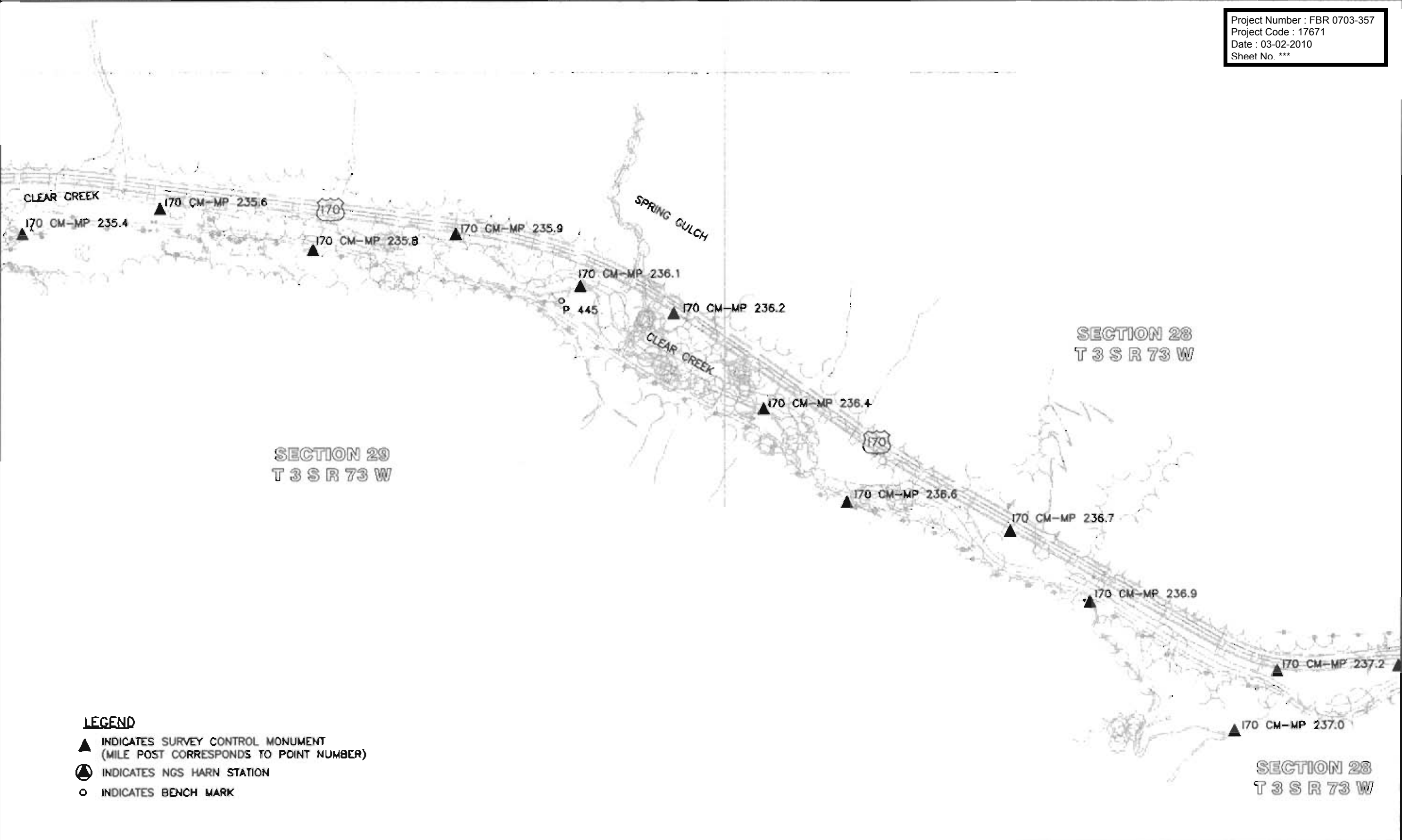
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 CLEAR CREEK COUNTY, COLORADO



Control Survey Diagram

PLAN SHEET				
Project Number:	Last Mod. Date	Subsect Sheets	Sheet No.	Total No. of Sheets
IM 0703-244 (SEGMENTS 1-5)	June 20, 2002			
Project Location: I 70 (MP 230.8 to MP 247.8)				
Project Location: Empire Jct. - Jefferson County Line				
12891				

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 Project Code : 17671  
 Date : 03-02-2010  
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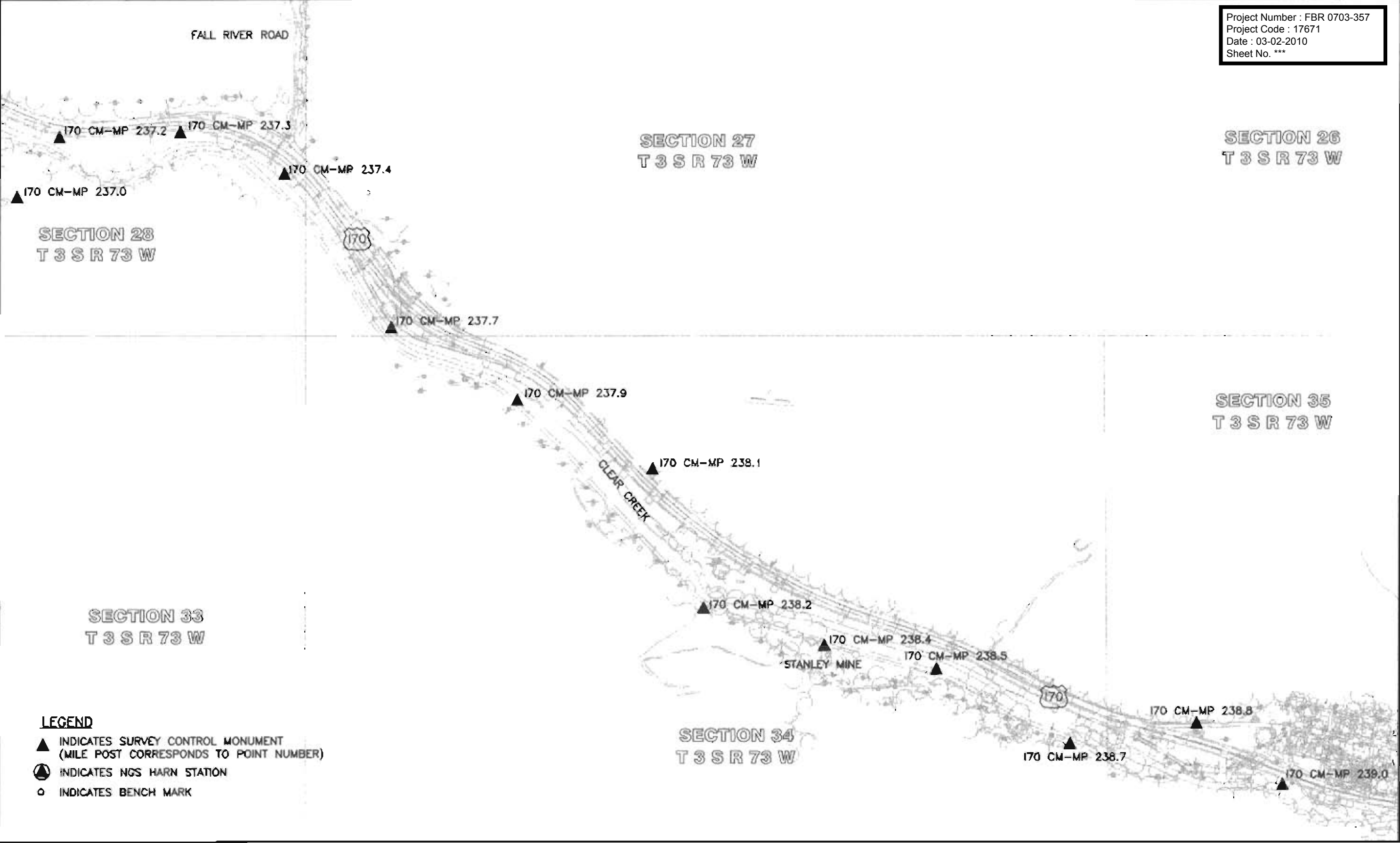


Rev.	Description



PLAN SHEET				
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Project Location: I 70 (MP 230.8 to MP 247.8)				
Project Code: Empire Jct. - Jefferson County Line				
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12691	June 28, 2002	of	36	

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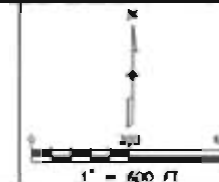
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Survey Unit: Joseph P. Conway, PLS

Sheet Revisions

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 CLEAR CREEK COUNTY, COLORADO



Control Survey Diagram

PLAN SHEET				
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Project Location: I 70 (MP 230.8 to MP 247.8)				
Project Location: Empire Jct. - Jefferson County Line				
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12891	Apr 20, 2002	of	1	24

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T. 3 S.  
 T. 4 S.

LEGEND

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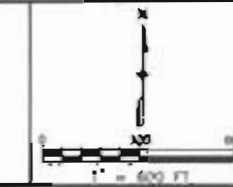
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Sheet Revisions

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 CLEAR CREEK COUNTY, COLORADO



Control Survey Diagram

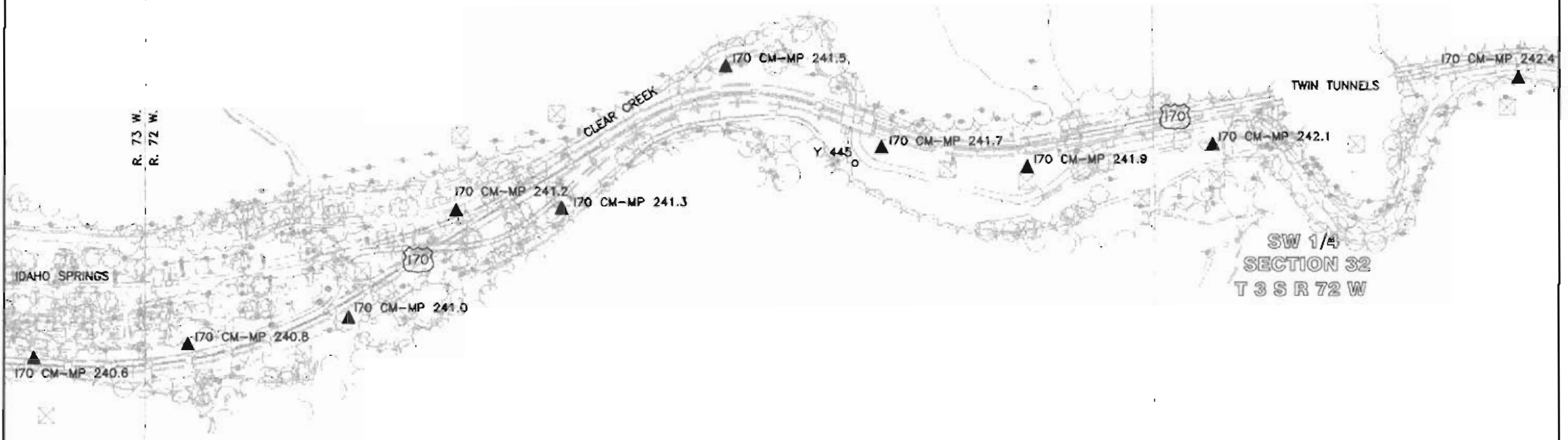
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12891	Aug 20, 2002	41	34	34

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NW 1/4  
 SECTION 32  
 T 3 S R 72 W

SECTION 31  
 T 3 S R 72 W

SW 1/4  
 SECTION 32  
 T 3 S R 72 W



LEGEND

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R. 73 W.  
 R. 72 W.

T. 3 S.  
 T. 4 S.



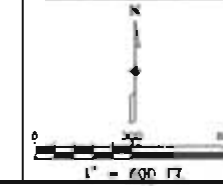
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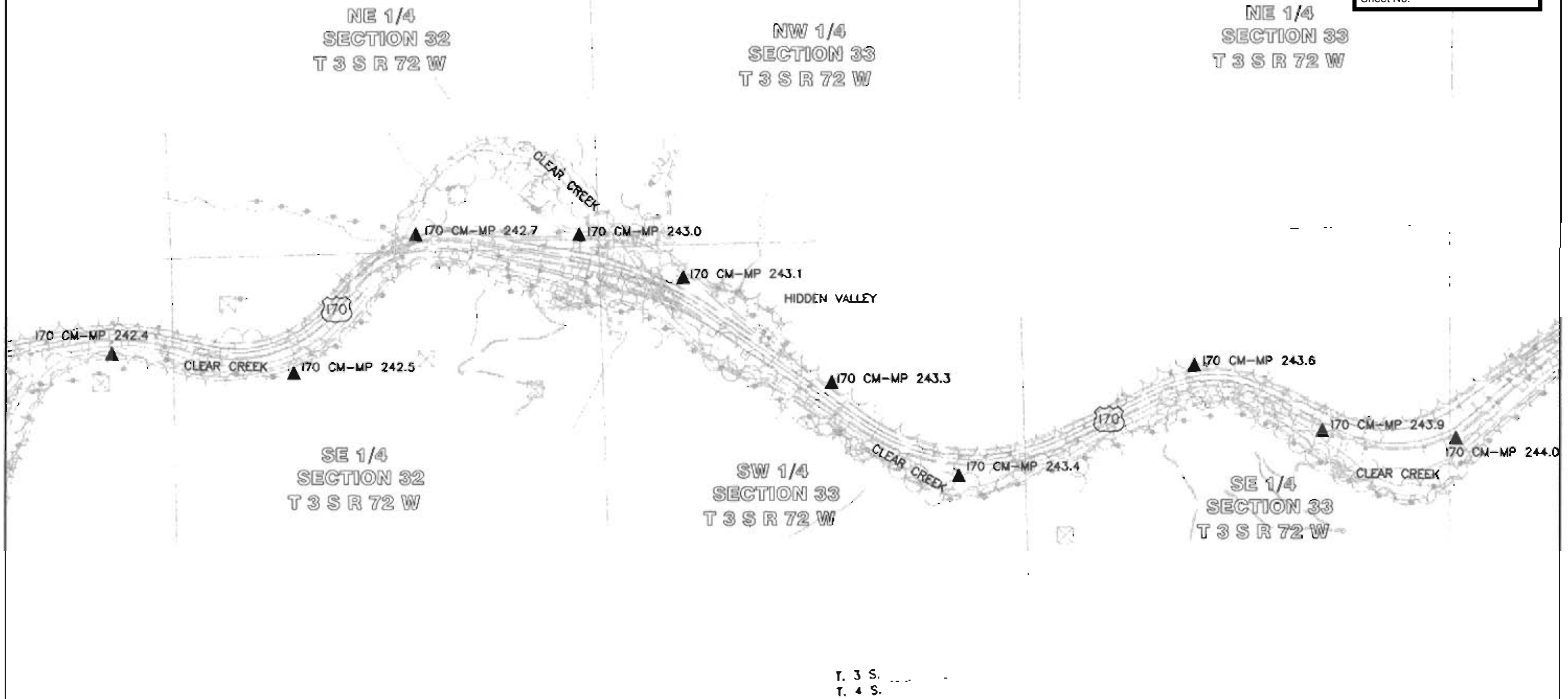
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Control Survey Diagram

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Project Location: Empire Jct. - Jefferson County Line				
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:	Total No. of Sheets:
12691	June 26, 2002	of	30	

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T. 3 S.  
 T. 4 S.





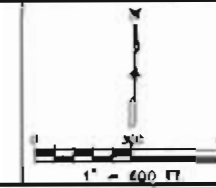
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Sheet Revisions

No.	Description

INTERSTATE 70 (MP 230.8 TO MP 247.8)  
 Sections 2, 3, 11 & 12, T. 4 S., R. 72 W., 6th PM and  
 Sections 31, 32, 33, & 34, T. 3 S., R. 72 W., and  
 Sections 19, 27, 28, 29, 30, 34, 35 & 36, T. 3 S., R. 73 W. and  
 Sections 24, 25, 26, 27, & 34, T. 3 S., R. 74 W., 6th PM  
 CLEAR CREEK COUNTY, COLORADO



Control Survey Diagram

PLAN SHEET				
Project Number: IM 0703-244 (SEGMENTS 1-5)				
Project Location: I 70 (MP 230.8 to MP 247.8)				
Project Location: Empire Jct. - Jefferson County Line				
Project Code	Last Mod. Date	Subst. Sheets	Sheet No.	Total No. of Sheets
17691	June 28, 2010	of	30	

Project Number : FBR 0703-357  
 Project Code : 17671  
 Date : 03-02-2010  
 Sheet No. \*\*\*

NW 1/4  
 SECTION 3  
 T 4 S R 72 W

NE 1/4  
 SECTION 3  
 T 4 S R 72 W

NW 1/4  
 SECTION 2  
 T 4 S R 72 W

SE 1/4  
 SECTION 3  
 T 4 S R 72 W

SW 1/4  
 SECTION 2  
 T 4 S R 72 W

SE 1/4  
 SECTION 2  
 T 4 S R 72 W

LEGEND

- ▲ INDICATES SURVEY CONTROL MONUMENT (MILE POST CORRESPONDS TO POINT NUMBER)
- ⊙ INDICATES NGS HARN STATION
- INDICATES BENCH MARK

