

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.,
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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

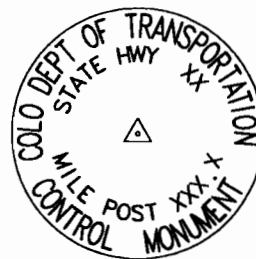
Project Number: STA 119A-048				
Project Location: US HWY 6 - MILEPOST 257.0 TO 271.6				
Project Location: JEFFERSON & CLEAR CREEK COUNTIES				
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.	Total No. of Sheets
14231	10-18-04	XXX of XXX	1	15

Prepared By:



MOUNTAIN SURVEYING &
MAPPING, INC.

8751 E. HAMPDEN AVE. SUITE B-
DENVER, COLORADO 80231
(303) 306-1858



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" o horizontal control disk set in the obutment 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, o 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 port 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 on 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).

Michael D. Heimbuck PLS 17488

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.

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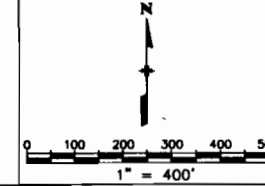
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Project Control Diagram

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: 14231	Last Mod. Date: 10-18-04	Subset Sheets: XXX of XXX	Sheet No.: 4	Total No. of Sheets: 15

Prepared By: MOUNTAIN SURVEYING & MAPPING, INC.
8751 E. HAMPDEN AVE. SUITE B-1
DENVER, COLORADO 80231
(303) 306-1858

SET
I 70 CM-MP 224.42
CDOT TYPE 2 MON.
N: 697306.34
E: 1018549.64
EL: 7229.96

▲ SET
US 6 CM-MP 257.30
CDOT TYPE 2 MON.
N: 697502.78
E: 1018981.08
EL: 7219.63

▲
FOUND
NSRS D447
NGS VERT. DISK IN ROCK
N: 696994.31
E: 1018243.27
EL: 7227.23

▲ SET
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CDOT TYPE 2 MON.
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E: 1019684.49
EL: 7210.92

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US 6 CM-MP 257.70
CDOT TYPE 2 MON.
N: 696080.22
E: 1020268.45
EL: 7208.99

SET
US 6 CM-MP 257.80
CDOT TYPE 2 MON.
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E: 1020776.00
EL: 7221.78

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NSRS E447
NGS VERT. DISK IN ROCK
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E: 1020478.09
EL: 7217.78

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CDOT TYPE 2 MON.
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CDOT TYPE 2 MON.
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COLORADO DEPARTMENT OF TRANSPORTATION



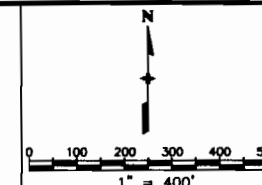
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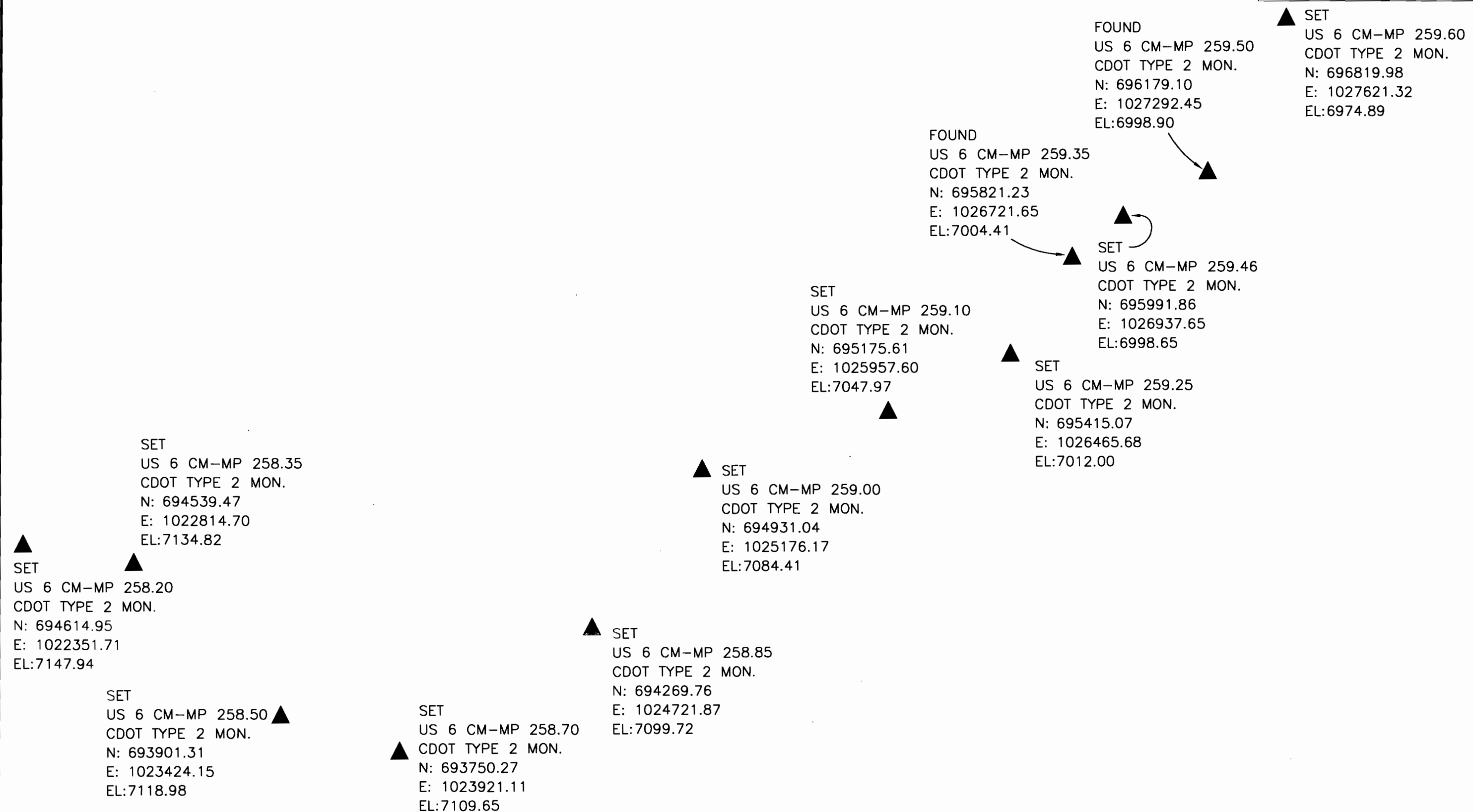
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14231	10-18-04	XXX of XXX	5	15

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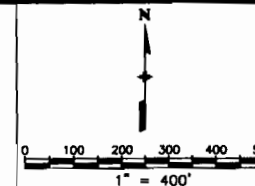
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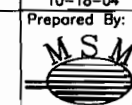
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SET
US 6 CM-MP 259.65
CDOT TYPE 2 MON.
N: 697500.46
E: 1027850.32
EL:6943.85

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
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CDOT TYPE 2 MON.
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CDOT TYPE 2 MON.
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SET
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CDOT TYPE 2 MON.
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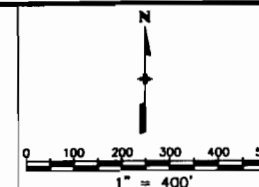
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14231	10-18-04	XXX	of XXX	7	15

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(303) 306-1858

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

SET
US 6 CM-MP 260.98
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E: 1032326.17
EL:6857.95

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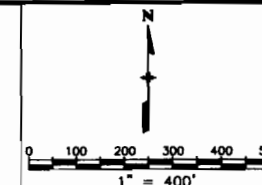
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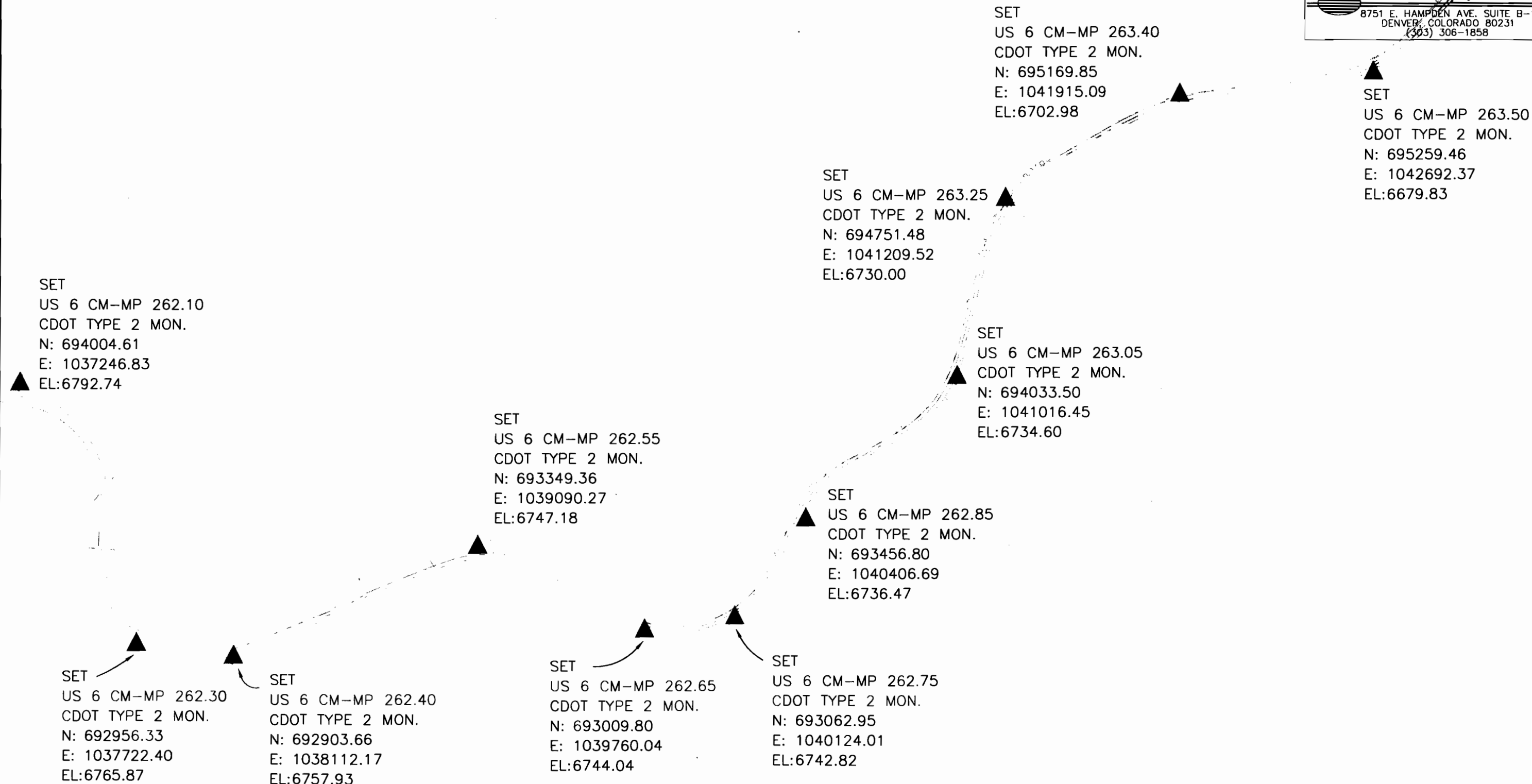


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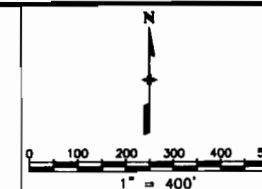
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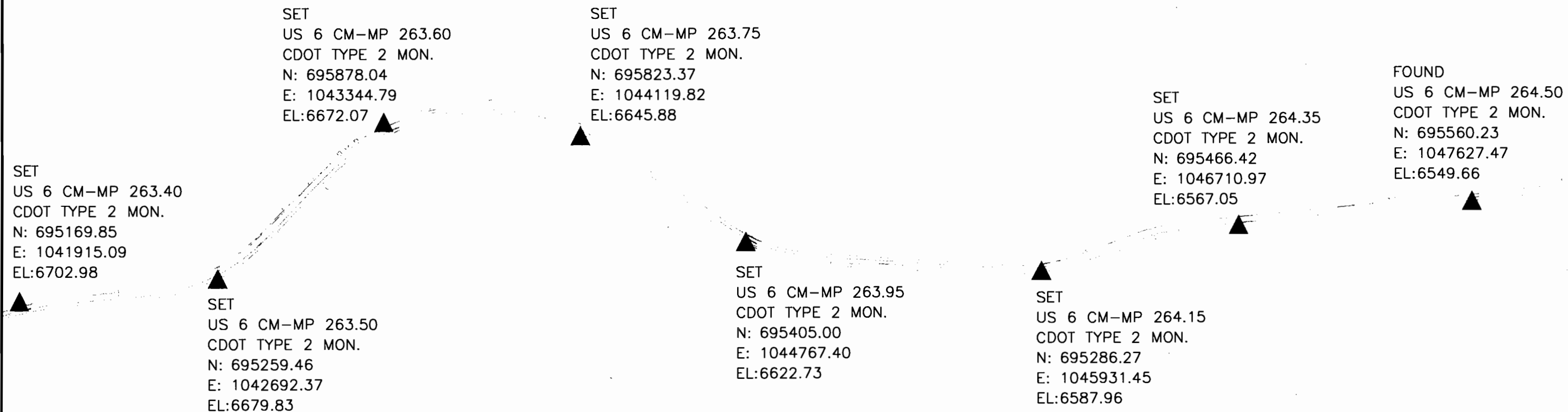


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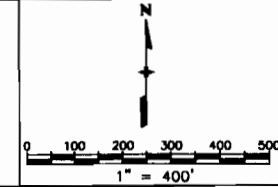
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FOUND
US 6 CM-MP 264.50
CDOT TYPE 2 MON.
N: 695560.23
E: 1047627.47
EL:6549.66

FOUND
US 6 CM-MP 264.60
CDOT TYPE 2 MON.
N: 695678.59
E: 1048370.69
EL:6543.66

FOUND
US 6 CM-MP 264.70
CDOT TYPE 2 MON.
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EL:6535.69

FOUND
NSRS THREE
NGS HORZ. DISK IN ROCK
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EL:6530.56

FOUND
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FOUND
US 6 CM-MP 265.15
CDOT TYPE 2 MON.
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FOUND
US 6 CM-MP 265.45
CDOT TYPE 2 MON.
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CDOT TYPE 2 MON.
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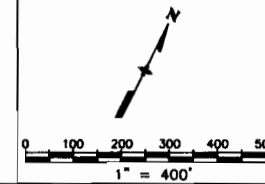
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Project Code: 14231	Last Mod. Date: 10-18-04	Subset Sheets: XXX of XXX	Sheet No. 11 Total No. of Sheets 15

Prepared By: MOUNTAIN SURVEYING & MAPPING, INC.
8751 E. HAMPDEN AVE. SUITE B-1
DENVER, COLORADO 80231
(303) 306-1858

FOUND
US 6 CM-MP 265.45
CDOT TYPE 2 MON.
N: 694085.81
E: 1052188.22
EL:6389.79

FOUND
US 6 CM-MP 265.50
CDOT TYPE 2 MON.
N: 693901.12
E: 1052374.15
EL:6378.12

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CDOT TYPE 2 MON.
N: 694272.61
E: 1053949.19
EL:6329.79

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CDOT TYPE 2 MON.
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E: 1054264.82
EL:6288.53

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US 6 CM-MP 265.95
CDOT TYPE 2 MON.
N: 694874.88
E: 1054044.08
EL:6313.46

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US 6 CM-MP 266.20
CDOT TYPE 2 MON.
N: 695855.41
E: 1054822.80
EL:6291.09

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CDOT TYPE 2 MON.
N: 697034.14
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EL:6265.29

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N: 697629.53
E: 1056047.30
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US 6 CM-MP 266.90
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COLORADO DEPARTMENT OF TRANSPORTATION



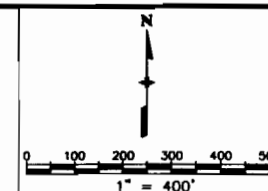
Region 1
Address: 18500 E. Colfax Ave.
Aurora, CO 80011
Phone: (303) 757-9744 FAX: (303) 757-9746

Survey Unit: Joseph Conway

Sheet Revisions

mm/yy	xxxx	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.

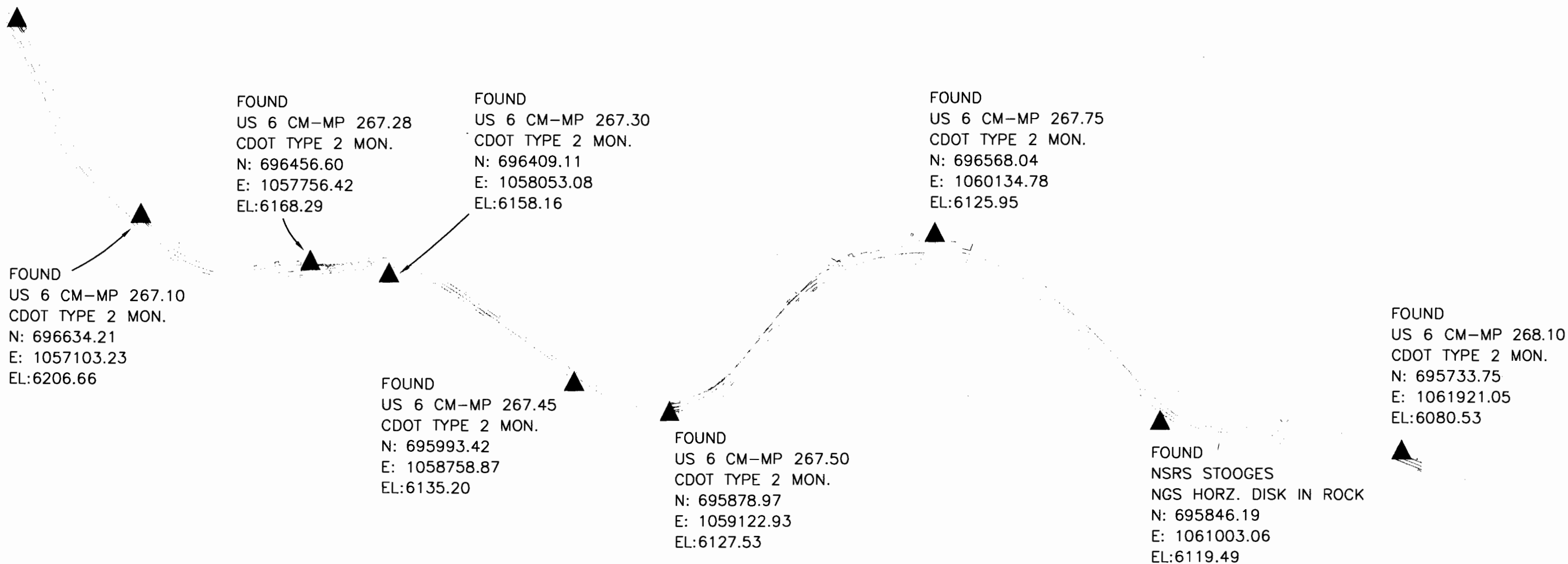


Project Control Diagram

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	12	15

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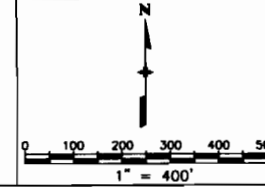
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Sheet Revisions

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THE 6TH P.M., COUNTY OF CLEAR CREEK, STATE OF COLORADO.

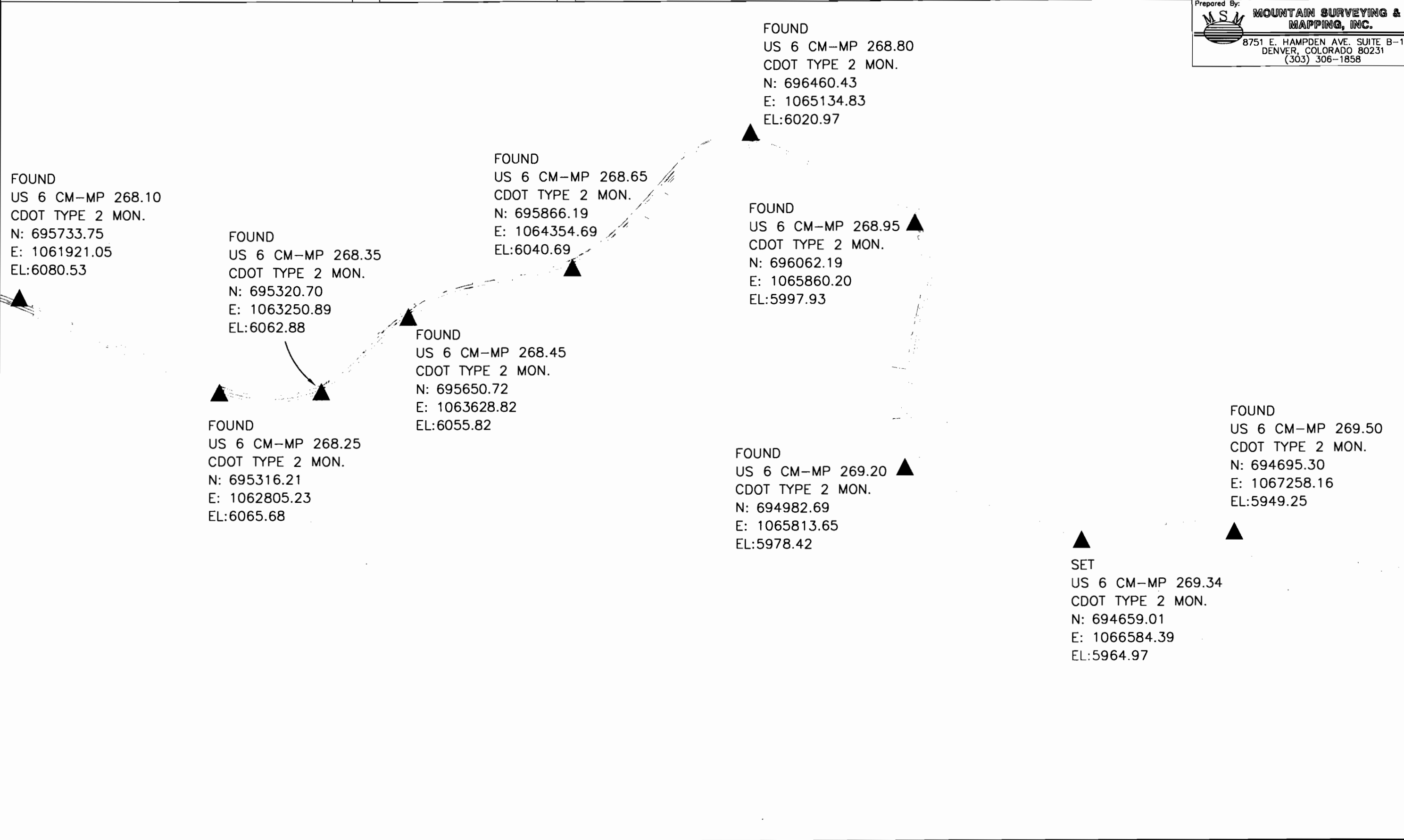


Project Control Diagram

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Project Number: STA 119A-048				
Project Location: US HWY 6 - MILEPOST 257.0 TO 271.6				
Project Location: JEFFERSON & CLEAR CREEK COUNTIES				
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14231	10-18-04	XXX of XXX	13	15

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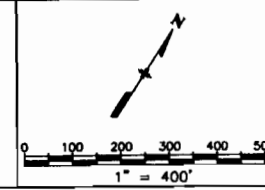
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FOUND
US 6 CM-MP 269.50
CDOT TYPE 2 MON.
N: 694695.30
E: 1067258.16
EL:5949.25

FOUND
US 6 CM-MP 269.80
CDOT TYPE 2 MON.
N: 694818.43
E: 1068669.52
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FOUND
US 6 CM-MP 269.70
CDOT TYPE 2 MON.
N: 694476.45
E: 1068350.80
EL:5927.56

FOUND
US 6 CM-MP 270.10
CDOT TYPE 2 MON.
N: 695900.11
E: 1069572.24
EL:5874.79

FOUND
US 6 CM-MP 270.20
CDOT TYPE 2 MON.
N: 695988.29
E: 1070511.08
EL:5844.19

FOUND
US 6 CM-MP 270.40
CDOT TYPE 2 MON.
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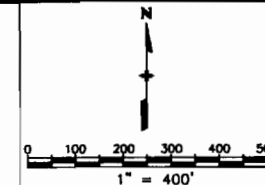
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