



COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT NAME	GEODEIC COORDINATES NAD-83(92) (CHARN)		ELEVATION (NAVD 88)m	MAPPING ANGLE	SCALE	NAD 83(92) ZONE 0502		DESCRIPTION
	LATITUDE(N)	LONGITUDE(W)				NORTHING (m)	EASTING (m)	
US 40 CM-MP 242.6	39°48'13.58025"	105°46'31.00349"	3411.082	-0°10'25.015"	1.000011081	523578.103	890827.341	CDOT Type 2 Control Monument
US 40 CM-MP 242.7	39°48'07.67012"	105°46'38.07080"	3425.252	-0°10'29.472"	1.000010729	523396.334	890658.664	CDOT Type 2 Control Monument
US 40 CM-MP 242.8	39°48'01.31533"	105°46'39.24686"	3436.362	-0°10'30.214"	1.000010352	523200.424	890630.088	CDOT Type 2 Control Monument
US 40 CM-MP 243.1	39°47'47.37815"	105°46'44.34869"	3435.678	-0°10'33.432"	1.000009529	522770.945	890507.398	CDOT Type 2 Control Monument
US 40 CM-MP 243.2	39°47'44.69195"	105°46'51.46974"	3425.685	-0°10'37.923"	1.000009371	522688.620	890337.725	CDOT Type 2 Control Monument
US 40 CM-MP 243.4	39°47'46.84538"	105°46'59.99695"	3417.083	-0°10'43.301"	1.000009498	522755.656	890135.060	CDOT Type 2 Control Monument
US 40 CM-MP 243.5	39°47'45.96861"	105°47'07.66547"	3406.179	-0°10'48.137"	1.000009446	522729.196	889952.534	CDOT Type 2 Control Monument
US 40 CM-MP 243.6	39°47'41.18361"	105°47'07.57023"	3396.933	-0°10'48.077"	1.000009165	522581.609	889954.336	CDOT Type 2 Control Monument
US 40 CM-MP 243.7	39°47'36.95245"	105°47'03.75630"	3392.212	-0°10'45.672"	1.000008916	522450.828	890044.667	CDOT Type 2 Control Monument
US 40 CM-MP 243.9	39°47'28.30713"	105°47'03.58448"	3383.832	-0°10'45.564"	1.000008410	522184.176	890047.920	CDOT Type 2 Control Monument
US 40 CM-MP 244.0	39°47'23.76303"	105°47'06.46436"	3378.364	-0°10'47.380"	1.000008145	522044.242	889978.960	CDOT Type 2 Control Monument
US 40 CM-MP 244.3	39°47'13.71946"	105°47'12.52377"	3358.770	-0°10'55.858"	1.000007560	521735.490	889658.120	CDOT Type 2 Control Monument
US 40 CM-MP 244.4	39°47'12.51413"	105°47'27.44876"	3350.502	-0°11'00.614"	1.000007490	521698.887	889478.565	CDOT Type 2 Control Monument
US 40 CM-MP 244.5	39°47'13.67039"	105°47'32.02632"	3345.146	-0°11'03.502"	1.000007557	521734.898	889369.760	CDOT Type 2 Control Monument
US 40 CM-MP 244.8	39°47'10.31917"	105°47'28.88803"	3320.212	-0°11'01.522"	1.000007362	521631.301	889444.101	CDOT Type 2 Control Monument
US 40 CM-MP 245.0	39°47'09.59808"	105°47'18.25237"	3308.134	-0°10'54.814"	1.000007320	521608.253	889697.100	CDOT Type 2 Control Monument
US 40 CM-MP 245.1	39°47'12.70890"	105°47'10.57934"	3297.413	-0°10'49.975"	1.000007501	521703.619	889879.977	CDOT Type 2 Control Monument
US 40 CM-MP 245.2	39°47'15.34074"	105°47'02.49169"	3287.000	-0°10'44.874"	1.000007654	521784.186	890072.670	CDOT Type 2 Control Monument
US 40 CM-MP 245.5	39°47'25.27849"	105°46'54.08918"	3269.513	-0°10'39.575"	1.000008233	522090.063	890273.549	CDOT Type 2 Control Monument
US 40 CM-MP 245.7	39°47'22.90442"	105°46'49.71439"	3258.612	-0°10'36.816"	1.000008094	522016.520	890377.412	CDOT Type 2 Control Monument
US 40 CM-MP 245.8	39°47'15.99819"	105°46'52.54016"	3247.063	-0°10'38.598"	1.000007692	521803.727	890309.519	CDOT Type 2 Control Monument
US 40 CM-MP 246.0	39°47'08.71281"	105°47'01.62998"	3239.826	-0°10'44.331"	1.000007269	521579.704	890092.535	CDOT Type 2 Control Monument
US 40 CM-MP 246.1	39°47'05.37831"	105°47'10.54531"	3229.279	-0°10'49.954"	1.000007076	521477.527	889880.075	CDOT Type 2 Control Monument
US 40 CM-MP 246.2	39°47'02.49367"	105°47'15.97371"	3221.179	-0°10'53.377"	1.000006909	521388.968	889750.625	CDOT Type 2 Control Monument
US 40 CM-MP 246.5	39°47'00.95867"	105°47'15.58859"	3199.168	-0°10'53.134"	1.000006820	521341.597	889759.639	CDOT Type 2 Control Monument
US 40 CM-MP 246.6	39°47'01.17704"	105°47'06.90082"	3187.325	-0°10'47.655"	1.000006833	521347.680	889966.388	CDOT Type 2 Control Monument
US 40 CM-MP 246.7	39°47'01.39036"	105°47'03.93709"	3180.502	-0°10'45.786"	1.000006845	521354.038	890036.931	CDOT Type 2 Control Monument
US 40 CM-MP 246.8	39°46'59.40134"	105°47'07.18125"	3172.000	-0°10'47.832"	1.000006730	521292.935	889959.543	CDOT Type 2 Control Monument
US 40 CM-MP 246.9	39°46'58.53248"	105°47'16.22305"	3159.344	-0°10'53.535"	1.000006680	521266.816	889744.305	CDOT Type 2 Control Monument
US 40 CM-MP 247.0	39°46'53.99725"	105°47'17.81348"	3151.496	-0°10'54.358"	1.000006418	521127.062	889706.016	CDOT Type 2 Control Monument
US 40 CM-MP 247.3	39°46'47.60411"	105°47'30.62520"	3131.429	-0°11'02.618"	1.000006050	520930.859	889400.516	CDOT Type 2 Control Monument
US 40 CM-MP 247.6	39°46'43.18489"	105°47'50.07400"	3105.619	-0°11'14.884"	1.000005796	520796.063	888937.256	CDOT Type 2 Control Monument
US 40 CM-MP 247.7	39°46'39.73783"	105°47'55.78987"	3096.788	-0°11'18.489"	1.000005598	520690.196	888800.886	CDOT Type 2 Control Monument
US 40 CM-MP 247.9	39°46'33.74006"	105°48'06.02674"	3081.833	-0°11'24.945"	1.000005255	520506.019	888556.662	CDOT Type 2 Control Monument
US 40 CM-MP 248.0	39°46'30.55353"	105°48'11.19888"	3073.495	-0°11'28.207"	1.000005073	520408.150	888433.249	CDOT Type 2 Control Monument
US 40 CM-MP 248.1	39°46'27.23099"	105°48'17.45563"	3064.038	-0°11'32.153"	1.000004884	520306.176	888284.006	CDOT Type 2 Control Monument
US 40 CM-MP 248.2	39°46'23.88668"	105°48'26.73512"	3051.463	-0°11'38.006"	1.000004693	520203.776	888062.820	CDOT Type 2 Control Monument
US 40 CM-MP 248.3	39°46'20.68105"	105°48'36.42332"	3038.431	-0°11'44.116"	1.000004511	520105.692	887831.915	CDOT Type 2 Control Monument
US 40 CM-MP 248.4	39°46'18.32212"	105°48'41.00569"	3031.663	-0°11'47.006"	1.000004377	520033.312	887722.610	CDOT Type 2 Control Monument
US 40 CM-MP 248.6	39°46'15.42335"	105°48'45.69572"	3024.445	-0°11'49.964"	1.000004212	519944.292	887610.683	CDOT Type 2 Control Monument
US 40 CM-MP 248.7	39°46'10.92996"	105°48'56.72291"	3017.243	-0°11'56.919"	1.000003957	519806.616	887347.759	CDOT Type 2 Control Monument
US 40 CM-MP 248.8	39°46'10.14584"	105°48'50.73997"	3009.751	-0°11'53.145"	1.000003913	519781.939	887490.069	CDOT Type 2 Control Monument
US 40 CM-MP 249.0	39°46'14.51780"	105°48'40.27879"	2995.989	-0°11'46.548"	1.000004161	519915.921	887739.508	CDOT Type 2 Control Monument
US 40 CM-MP 249.1	39°46'15.12561"	105°48'31.52601"	2988.186	-0°11'41.027"	1.000004195	519933.956	887947.884	CDOT Type 2 Control Monument
US 40 CM-MP 249.2	39°46'14.96405"	105°48'26.11535"	2984.028	-0°11'37.615"	1.000004186	519928.537	888076.639	CDOT Type 2 Control Monument
US 40 CM-MP 249.3	39°46'17.80399"	105°48'16.77017"	2971.568	-0°11'31.721"	1.000004347	520015.376	888299.344	CDOT Type 2 Control Monument
US 40 CM-MP 249.5	39°46'23.21154"	105°48'04.99331"	2961.761	-0°11'24.293"	1.000004655	520181.220	888580.179	CDOT Type 2 Control Monument
US 40 CM-MP 249.7	39°46'27.36165"	105°47'53.17258"	2953.528	-0°11'16.838"	1.000004891	520308.288	888661.918	CDOT Type 2 Control Monument
US 40 CM-MP 249.8	39°46'29.66785"	105°47'47.36617"	2954.484	-0°11'13.176"	1.000005023	520378.963	889000.334	CDOT Type 2 Control Monument
D 7	39°47'56.02082"	105°46'40.20388"	3450.227	-0°10'30.818"	1.000010039	523037.201	890606.821	Found U.S.G.S. Cap in Boulder
LOBATO	39°46'09.11373"	105°48'54.00418"	3016.156	-0°11'55.204"	1.000003854	519750.376	887412.271	Found N.G.S. Cap in rock outcrop
YOST	39°47'18.12315"	105°46'52.55901"	3247.318	-0°10'38.610"	1.000007816	521869.266	890309.273	Found N.G.S. Cap in rock outcrop

DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO
CONTROL SURVEY DIAGRAM

Project NH 0403-026
S.H. 40 MP 242.6 to MP 250.0
Grand & Clear Creek Counties

PROJECT COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT NAME	PROJECT COORDINATES		ELEV(m)	DESCRIPTION
	NORTH (m)	EAST (m)		
US 40 CM-MP 242.6	23845.236	391281.845	3411.082	CDOH Type 2 Control Monument
US 40 CM-MP 242.7	23663.373	391113.082	3425.252	CDOH Type 2 Control Monument
US 40 CM-MP 242.8	23467.364	391084.492	3436.362	CDOH Type 2 Control Monument
US 40 CM-MP 243.1	23037.665	390981.739	3435.678	CDOH Type 2 Control Monument
US 40 CM-MP 243.2	22955.298	390791.980	3425.685	CDOH Type 2 Control Monument
US 40 CM-MP 243.4	23022.378	390589.211	3417.083	CDOH Type 2 Control Monument
US 40 CM-MP 243.5	22955.894	390406.592	3406.179	CDOH Type 2 Control Monument
US 40 CM-MP 243.6	22848.233	390408.395	3396.933	CDOH Type 2 Control Monument
US 40 CM-MP 243.7	22717.384	390498.772	3392.212	CDOH Type 2 Control Monument
US 40 CM-MP 243.9	22450.597	390502.027	3383.832	CDOH Type 2 Control Monument
US 40 CM-MP 244.0	22310.591	390433.032	3378.364	CDOH Type 2 Control Monument
US 40 CM-MP 244.3	22001.682	390112.028	3358.770	CDOH Type 2 Control Monument
US 40 CM-MP 244.4	21965.061	389932.381	3350.502	CDOH Type 2 Control Monument
US 40 CM-MP 244.5	22001.090	389823.521	3345.146	CDOH Type 2 Control Monument
US 40 CM-MP 244.8	21897.439	389897.900	3320.212	CDOH Type 2 Control Monument
US 40 CM-MP 245.0	21874.380	390151.027	3308.134	CDOH Type 2 Control Monument
US 40 CM-MP 245.1	21969.795	390333.998	3297.413	CDOH Type 2 Control Monument
US 40 CM-MP 245.2	22050.403	390526.789	3287.000	CDOH Type 2 Control Monument
US 40 CM-MP 245.5	22356.436	390727.771	3269.513	CDOH Type 2 Control Monument
US 40 CM-MP 245.7	22282.856	390831.687	3258.612	CDOH Type 2 Control Monument
US 40 CM-MP 245.8	22069.953	390763.759	3247.063	CDOH Type 2 Control Monument
US 40 CM-MP 246.0	21845.817	390546.665	3239.826	CDOH Type 2 Control Monument
US 40 CM-MP 246.1	21743.588	390334.096	3229.279	CDOH Type 2 Control Monument
US 40 CM-MP 246.2	21654.983	390204.580	3221.179	CDOH Type 2 Control Monument
US 40 CM-MP 246.5	21607.588	390213.599	3199.168	CDOH Type 2 Control Monument
US 40 CM-MP 246.6	21613.674	390420.453	3187.325	CDOT Type 2 Control Monument
US 40 CM-MP 246.7	21620.035	390491.032	3180.502	CDOH Type 2 Control Monument
US 40 CM-MP 246.8	21558.901	390413.605	3172.000	CDOH Type 2 Control Monument
US 40 CM-MP 246.9	21532.769	390198.257	3159.344	CDOH Type 2 Control Monument
US 40 CM-MP 247.0	21392.943	390159.948	3151.496	CDOH Type 2 Control Monument
US 40 CM-MP 247.3	21196.640	389854.292	3131.429	CDOH Type 2 Control Monument
US 40 CM-MP 247.6	21061.775	389390.796	3105.619	CDOH Type 2 Control Monument
US 40 CM-MP 247.7	20955.854	389254.357	3096.788	CDOH Type 2 Control Monument
US 40 CM-MP 247.9	20941.984	389232.229	3095.534	CDOH Type 2 Control Monument
US 40 CM-MP 247.9	20771.584	389010.008	3081.833	CDOH Type 2 Control Monument
US 40 CM-MP 248.0	20673.665	388886.532	3073.495	CDOH Type 2 Control Monument
US 40 CM-MP 248.1	20571.639	388737.213	3064.038	CDOH Type 2 Control Monument
US 40 CM-MP 248.2	20469.186	388515.914	3051.463	CDOH Type 2 Control Monument
US 40 CM-MP 248.3	20371.053	388284.891	3038.431	CDOH Type 2 Control Monument
US 40 CM-MP 248.4	20298.635	388175.530	3031.663	CDOH Type 2 Control Monument
US 40 CM-MP 248.6	20209.570	388063.546	3024.445	CDOH Type 2 Control Monument
US 40 CM-MP 248.7	20071.824	387800.488	3017.243	CDOH Type 2 Control Monument
US 40 CM-MP 248.8	20047.134	387942.871	3009.751	CDOH Type 2 Control Monument
US 40 CM-MP 249.0	20181.185	388192.436	2995.989	CDOH Type 2 Control Monument
US 40 CM-MP 249.1	20199.229	388400.919	2988.186	CDOH Type 2 Control Monument
US 40 CM-MP 249.2	20193.807	388529.740	2984.028	CDOH Type 2 Control Monument
US 40 CM-MP 249.3	20280.691	388752.559	2971.568	CDOH Type 2 Control Monument
US 40 CM-MP 249.5	20446.618	389033.537	2961.761	CDOH Type 2 Control Monument
US 40 CM-MP 249.7	20573.751	389315.420	2953.528	CDOH Type 2 Control Monument
US 40 CM-MP 249.8	20644.463	389453.906	2954.484	CDOH Type 2 Control Monument
D 7	23304.057	391061.213	3450.227	Found U.S.G.S. Cop in Boulder
LOBATO	20015.555	387865.033	3016.156	Found N.G.S. Cop in rock outcrop
YOST	22135.526	390763.513	3247.318	Found N.G.S. Cop in rock outcrop



DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO CONTROL SURVEY DIAGRAM

Project NH 0403-026
S.H. 40 MP 242.6 to MP 250.0

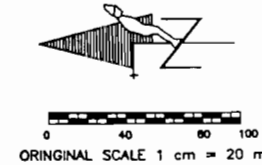
GRAND & CLEAR CREEK COUNTIES, COLORADO

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NUMBER
VIII	COLORADO	Project NH 0403-026	2

Revisions		
2/18/99	Revised CDOT CM to CDOH CM	DAS
2/18/99	Removed BMs from plan sheets	DAS

2 Miles West of Berthoud Pass - West

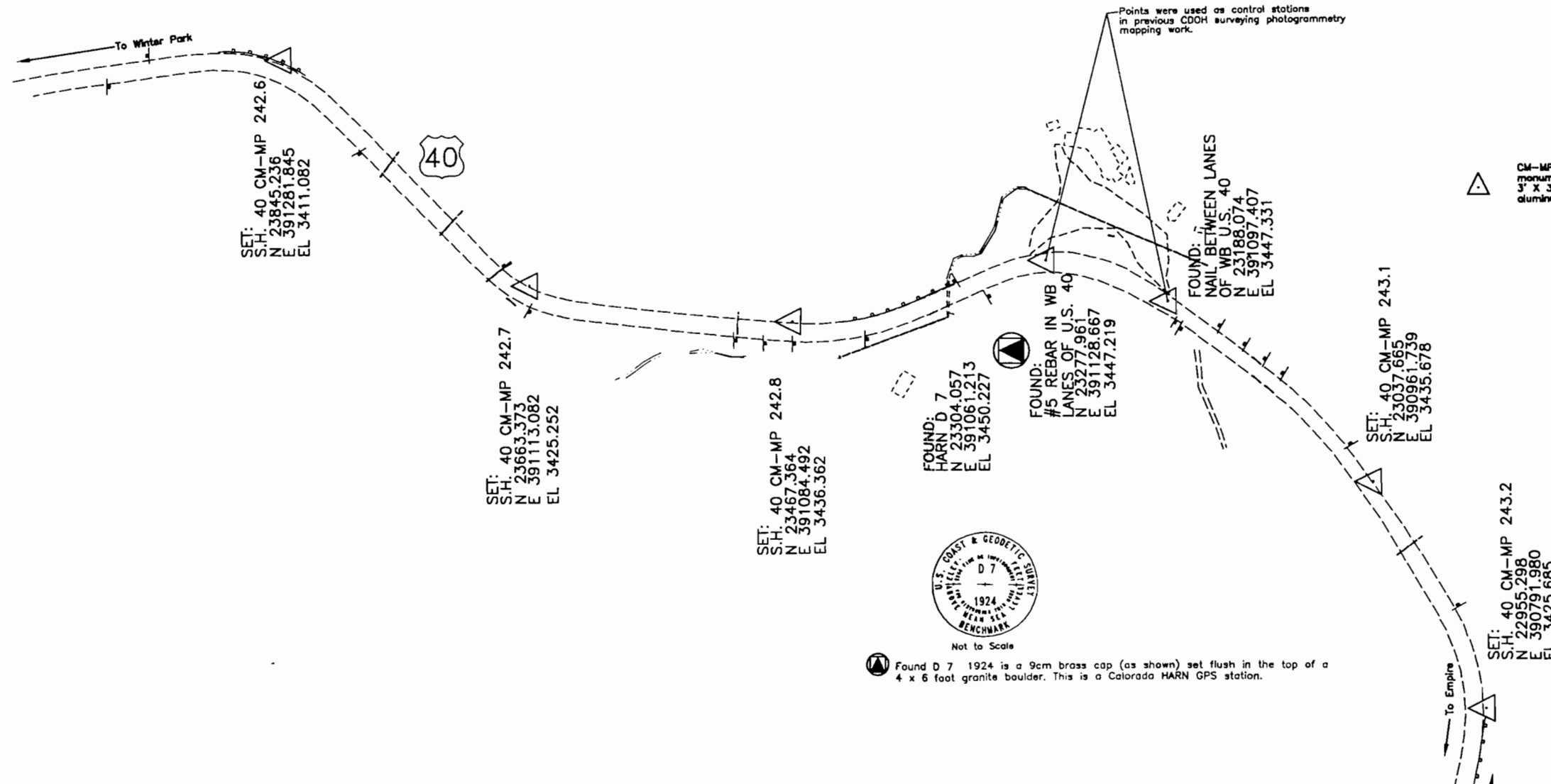


△ CM-MP - Control Monuments were set CDOH. They were CDOH type 2 monuments, a 3-1/4" dia. aluminum control monument cap (as shown) on a 3" x 3/4" dia. fluted aluminum security rod on a 3" x 3/4" dia. smooth aluminum rod.

⊙ A Colorado HARN GPS Station

NOTES:

- 1) Fronts of buildings were located by survey methods. Buildings are not shown in full.
- 2) Underground utilities and overhead power lines are not shown in full.



⊙ Found D 7 1924 is a 9cm brass cap (as shown) set flush in the top of a 4 x 6 foot granite boulder. This is a Colorado HARN GPS station.



DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO CONTROL SURVEY DIAGRAM

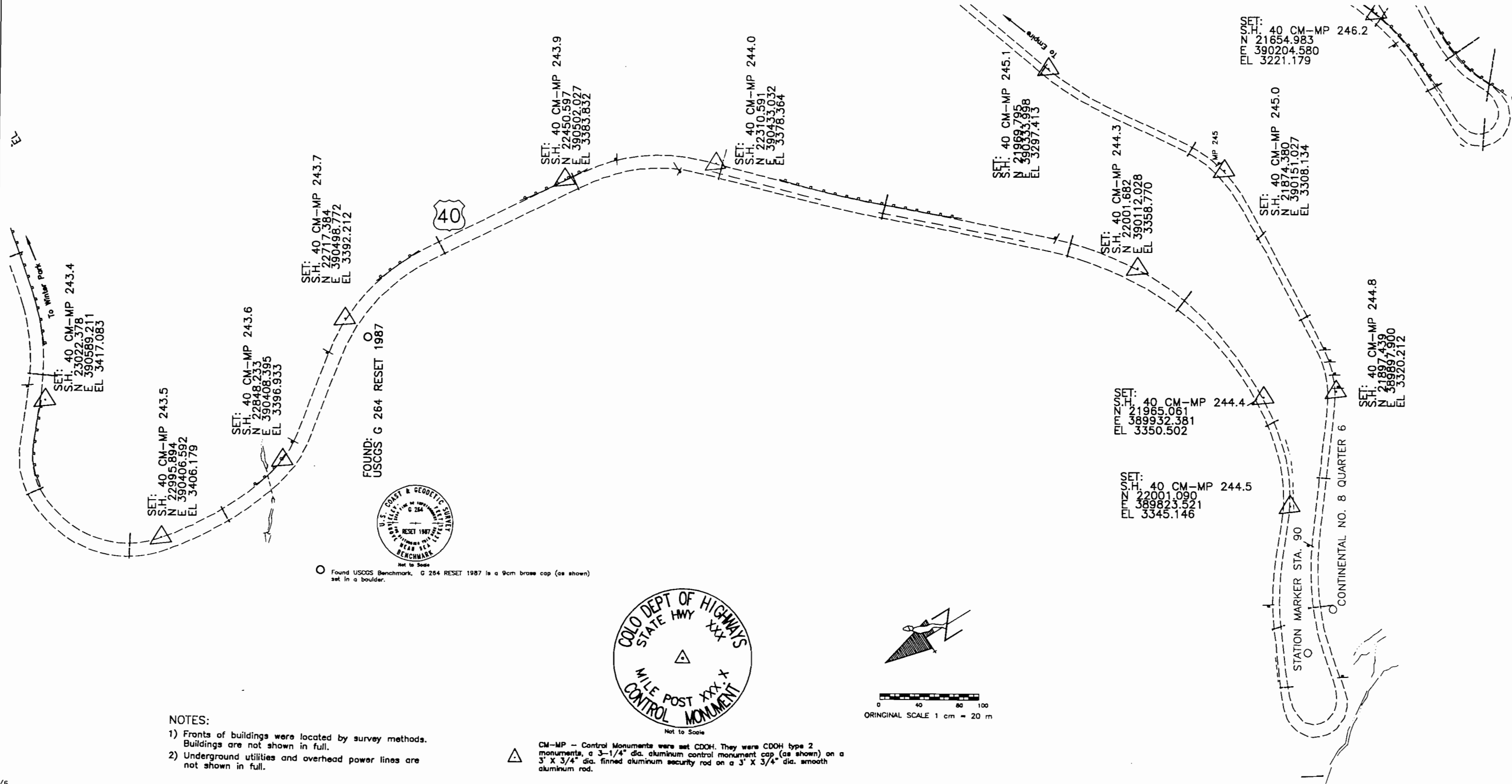
Project NH 0403-026
S.H. 40 MP 242.6 to MP 250.0

GRAND & CLEAR CREEK COUNTIES, COLORADO

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NUMBER
VIII	COLORADO	Project NH 0403-026	3
Revisions			
2/18/99	Revised CDOT CM to CDOH CM	DAS	
2/18/99	Removed Btla from plan sheets	DAS	
2/18/99	Edited found BM notes	DAS	

2 Miles West of Berthoud Pass - West





DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO CONTROL SURVEY DIAGRAM

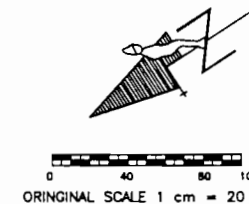
Project NH 0403-026
S.H. 40 MP 242.6 to MP 250.0

GRAND & CLEAR CREEK COUNTIES, COLORADO

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NUMBER
XIII	COLORADO	Project NH 0403-026	4
Revisions			
2/18/99	Revised CDOT CM to CDOH CM	DAS	
2/18/99	Removed BMA from plan sheets	DAS	
2/18/99	Edited found BM notes	DAS	

2 Miles West of Berthoud Pass - West

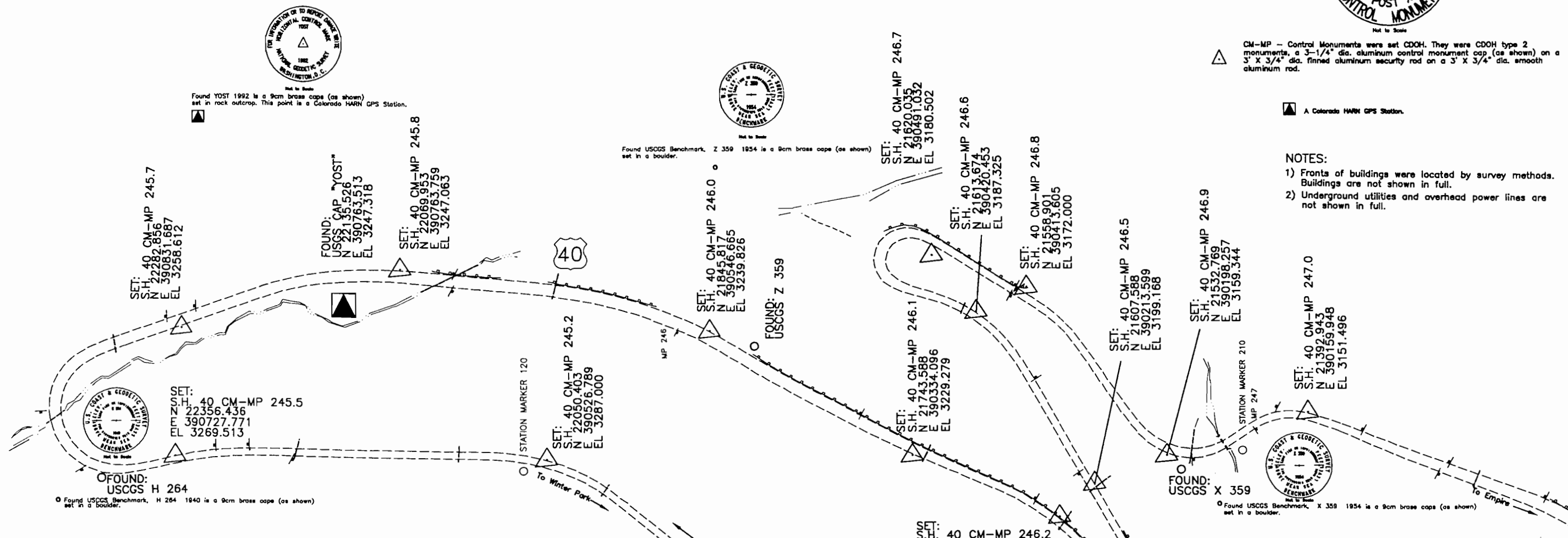


CM-MP - Control Monuments were set CDOH. They were CDOH type 2 monuments, a 3-1/4" dia. aluminum control monument cap (as shown) on a 3" X 3/4" dia. finned aluminum security rod on a 3" X 3/4" dia. smooth aluminum rod.

A Colorado HARN GPS Station.

NOTES:

- 1) Fronts of buildings were located by survey methods. Buildings are not shown in full.
- 2) Underground utilities and overhead power lines are not shown in full.





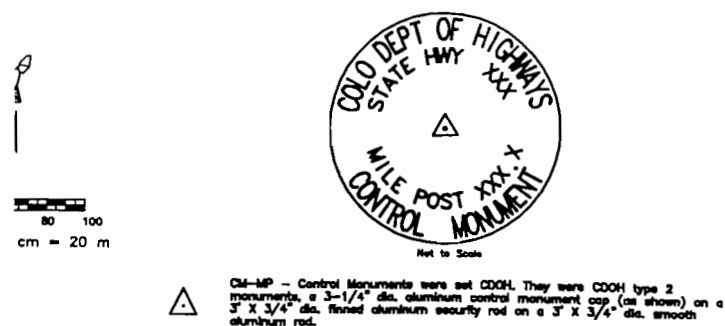
DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO CONTROL SURVEY DIAGRAM

Project NH 0403-026
S.H. 40 MP 242.6 to MP 250.0

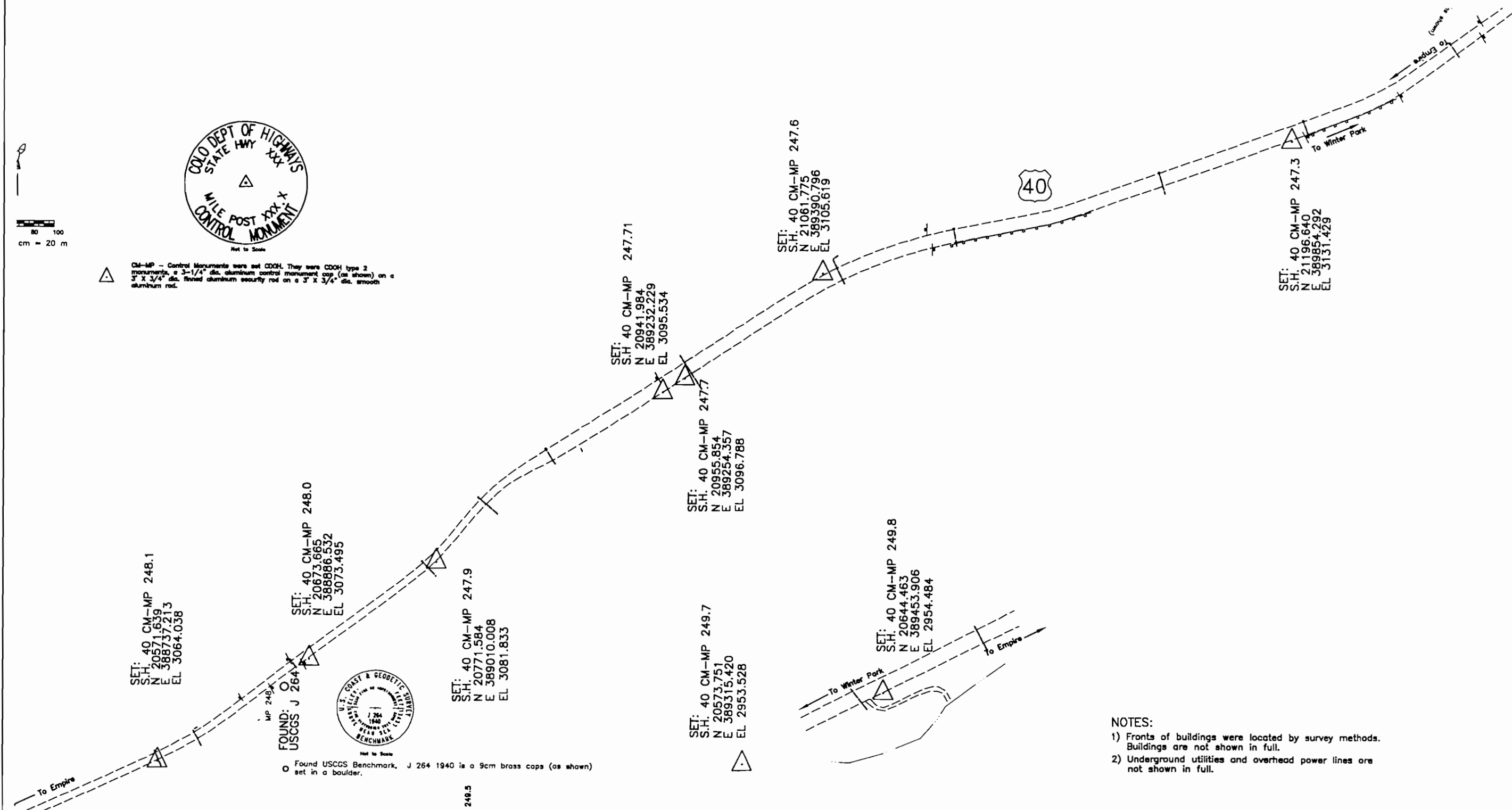
GRAND & CLEAR CREEK COUNTIES, COLORADO

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NUMBER
301	COLORADO	Project NH 0403-026	5
Revisions			
2/15/99	Revised CDOT CM to CDOT CM	DAS	
2/15/99	Removed BMs & APs from plan sheets	DAS	
2/15/99	Revised Easting coordinate of CM-MP 247.7	DAS	
2/15/99	Edit found BM notes	DAS	
2 Miles West of Berthoud Pass - West			



CM-MP - Control Monuments were set 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. fixed aluminum security rod on a 3" X 3/4" dia. smooth aluminum rod.

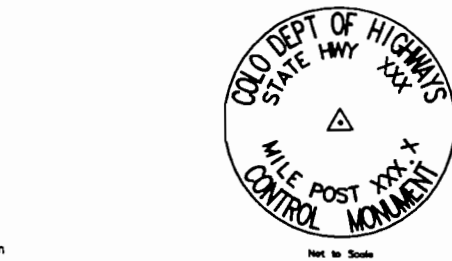


NOTES:

- 1) Fronts of buildings were located by survey methods. Buildings are not shown in full.
- 2) Underground utilities and overhead power lines are not shown in full.



ORIGINAL SCALE 1 cm = 20 m



CM-MP - Control Monuments were set CDOH. They were CDOH 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.

A Colorado HARN GPS Station.

NOTES:

- 1) Fronts of buildings were located by survey methods. Buildings are not shown in full.
- 2) Underground utilities and overhead power lines are not shown in full.

SET:
S.H. 40 CM-MP 248.7
N 20071.824
E 387800.488
EL 3017.243



Found LOBATO 1992 is a 9cm brass caps (as shown) set in rock outcrop. A Colorado HARN GPS Station.

DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO CONTROL SURVEY DIAGRAM

Project NH 0403-026
S.H. 40 MP 242.6 to MP 250.0

GRAND & CLEAR CREEK COUNTIES, COLORADO

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NUMBER
XIII	COLORADO	Project NH 0403-026	6

Revisions		
2/16/99	Revised CDOH CM to CDOH CM	DAS
2/18/99	Removed BMs from plan sheets	DAS
2/17/99	Erased Aerial PTs from plan sheets	DAS

2 Miles West of Berthoud Pass - West

