



DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO

CONTROL SURVEY DIAGRAM

Project IM 0252-269
 Interstate 25 M.P. 163.37 to 167.46
 El Paso County Line - North
 Sections 11, 14, 23, 26, 35, T 10 S, R 67 W, 6th P.M.
 Section 2, T 11 S, R 67 W, 6th P.M.
 Douglas and El Paso Counties, Colorado

FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
VIII	COLO.	IM 0252-269	1	3
RIGHT OF WAY				
Subaccount 93201				
REVISIONS				

PLANS CERTIFICATION
 I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
 DATE OF SURVEY: _____
 NAME OF COUNTY LAND SURVEYOR/AGENT OR DAY SURVEYOR: _____
 ONLY IN COLORADO: _____
 RECEIPT NUMBER: _____
 SURVEY AT PLACE: _____
 SIGNED: _____
 DATE: _____

CONTROL MONUMENT COORDINATE SUMMARY TABLE
 (ADJUSTED FIELD DATA)

POINT	NORTHING (M)	EASTING (M)	ELEV. '88	WGS 84 (92) CHPN	NAD '83 STATE PLANE
POINT	NORTHING (M)	EASTING (M)	ELEV. (ft)	LATITUDE	LONGITUDE
HOB BM V 300 1983 (OPS)	1471490.90	3181888.34	7346.80	39°07'28.129347N	104°01'18.687097W
CM-MP 163.36 (OPS)	1473477.38	3181899.48	7323.00	39°07'48.97168W	104°01'18.687097W
CM-MP 163.8 (OPS)	1473479.31	3182111.60	7273.00	39°08'07.731818W	104°01'18.687097W
CM-MP 164.0	1473480.27	3182308.18	7271.138	39°08'18.63479W	104°01'18.687097W
CM-MP 164.2	1473481.02	3182499.82	7186.96	39°08'27.86337W	104°01'18.687097W
CM-MP 164.4	1473482.78	3182676.80	7190.80	39°08'36.73205W	104°01'18.687097W
CM-MP 164.6	1473484.58	3182841.60	7187.90	39°08'45.44489W	104°01'18.687097W
CM-MP 164.8	1473486.32	3182994.00	7190.52	39°08'54.19912W	104°01'18.687097W
CM-MP 165.0	1473488.02	3183135.40	7127.95	39°09'02.91195W	104°01'18.687097W
HOB BM V 300 1983 (OPS)	1481232.14	3183634.73	7123.94	39°09'11.63407W	104°01'18.687097W
CM-MP 165.2 (OPS)	1481232.14	3183634.73	7123.94	39°09'11.63407W	104°01'18.687097W
CM-MP 165.4	1481232.14	3183634.73	7123.94	39°09'11.63407W	104°01'18.687097W
CM-MP 165.6	1481232.14	3183634.73	7123.94	39°09'11.63407W	104°01'18.687097W
CM-MP 165.8	1481232.14	3183634.73	7123.94	39°09'11.63407W	104°01'18.687097W
CM-MP 166.0	1481232.14	3183634.73	7123.94	39°09'11.63407W	104°01'18.687097W
HOB BM V 300 1983	1487482.04	3185170.07	7047.09	39°10'06.1898W	104°01'18.687097W
CM-MP 166.2 (OPS)	1487482.04	3185170.07	7047.09	39°10'06.1898W	104°01'18.687097W
CM-MP 166.4	1487482.04	3185170.07	7047.09	39°10'06.1898W	104°01'18.687097W
CM-MP 166.6	1487482.04	3185170.07	7047.09	39°10'06.1898W	104°01'18.687097W
CM-MP 166.8	1487482.04	3185170.07	7047.09	39°10'06.1898W	104°01'18.687097W
CM-MP 167.0 (OPS)	1487482.04	3185170.07	7047.09	39°10'06.1898W	104°01'18.687097W
HOB BM V 300 1983 (OPS)	1488008.00	3186374.62	6905.00	39°11'13.63011W	104°01'18.687097W



Typical Control Monument Cap



Typical R-O-W Marker Cap



Typical NGS Logo Cap

TRAVERSE SUMMARY TABLES
 (ADJUSTED FIELD DATA)
 PRIMARY CONTROL TRAVERSE

OCCUPIED POINT	BACK POINT	AHEAD POINT	ADJUSTED HORIZ. DIST.	ADJUSTED HORIZ. ANG. RIGHT
CM-MP 163.36 (OPS)	HOB BM V 300 1983 (OPS)	CM-MP 163.8	2007.74	198°18'46"
CM-MP 163.8 (OPS)	CM-MP 163.36 (OPS)	CM-MP 164.0	1517.62	174°46'46"
CM-MP 164.0 (OPS)	CM-MP 163.8 (OPS)	CM-MP 164.2	806.18	177°48'17"
CM-MP 164.2 (OPS)	CM-MP 164.0 (OPS)	CM-MP 164.4	1080.24	177°18'46"
CM-MP 164.4 (OPS)	CM-MP 164.2 (OPS)	CM-MP 164.6	1346.77	209°00'37"
CM-MP 164.6 (OPS)	CM-MP 164.4 (OPS)	CM-MP 164.8	941.28	184°22'09"
CM-MP 164.8 (OPS)	CM-MP 164.6 (OPS)	CM-MP 165.0	1306.85	206°54'45"
CM-MP 165.0 (OPS)	CM-MP 164.8 (OPS)	HOB BM V 300 1983 (OPS)	484.54	147°17'17"
HOB BM V 300 1983 (OPS)	CM-MP 165.0 (OPS)	CM-MP 165.2 (OPS)	881.81	147°33'10"
CM-MP 165.2 (OPS)	HOB BM V 300 1983 (OPS)	CM-MP 165.4 (OPS)	1125.00	181°13'27"
CM-MP 165.4 (OPS)	CM-MP 165.2 (OPS)	CM-MP 165.6 (OPS)	1463.11	177°02'12"
CM-MP 165.6 (OPS)	CM-MP 165.4 (OPS)	CM-MP 165.8 (OPS)	900.80	184°33'39"
CM-MP 165.8 (OPS)	CM-MP 165.6 (OPS)	HOB BM V 300 1983	823.84	221°41'10"
HOB BM V 300 1983	CM-MP 165.8 (OPS)	CM-MP 166.0 (OPS)	1136.78	149°09'01"
CM-MP 166.0 (OPS)	HOB BM V 300 1983	CM-MP 166.2 (OPS)	977.46	201°41'46"
CM-MP 166.2 (OPS)	CM-MP 166.0 (OPS)	CM-MP 166.4 (OPS)	1471.74	147°17'41"
CM-MP 166.4 (OPS)	CM-MP 166.2 (OPS)	CM-MP 166.6 (OPS)	1316.27	189°12'18"
CM-MP 166.6 (OPS)	CM-MP 166.4 (OPS)	CM-MP 166.8 (OPS)	890.48	182°30'47"
CM-MP 166.8 (OPS)	CM-MP 166.6 (OPS)	HOB BM V 300 1983 (OPS)	1178.14	182°48'32"

BASIS OF BEARINGS: Bearings used in the calculation of coordinates are based on a grid bearing of N 1°51'57" W from NGS BM V 395 1983 to CM-MP 163.35 as obtained from a Global Positioning System (GPS) survey based on the Colorado High Precision Network (CHPN). The NGS BM V 395 1983 and CM-MP 163.35 are described in detail below.

BASIS OF ELEVATIONS: Project elevations are based on NAVD '88 elevations from benchmarks W 395 1983, X 395 1983, Z 392 1983, and A 393 1983 as obtained from a first order second class Geodetic Leveling line Accession No. L24783 leveled in 1984.

COORDINATE DATUM: Coordinates are modified Colorado State Plane Central Zone NAD '83 coordinates. State Plane coordinates were modified to a mean project elevation of 7150 ft. The elevation correction factor used to modify the coordinates was 0.9995945223.

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

○ RIGHT-OF-WAY Markers were found. They were typical Colorado Department of Highways 3" brass caps (as shown) set in concrete posts.

● NGS Benchmarks were found. They were deep rod type monuments set flush with the ground in a NGS logo cap (as shown).

(GPS) - Points located using GPS and tied to the Colorado High Precision Network (WGS '84 (92)). See symbol for monument type.

NOTE: This control survey is for the use of Colorado Department of Transportation personnel. The survey is not a complete Boundary Survey. Title Policy, Title Commitment, and Title Research were not part of this control survey, therefore, easements, rights, and restrictions of record are not shown. The verification of the physical evidence with relation to easements, rights of way, property boundaries, and restrictions, as described in the instruments of record, was not included in this control survey.

NOTE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the statement shown.

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, Joseph P. Conway, a Professional Land Surveyor in the State of Colorado, hereby state that this Control Survey Diagram was prepared under my supervision this _____ day of _____ from a field survey performed under my supervision from January 4, 1993 to October 27, 1993, 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).



DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO

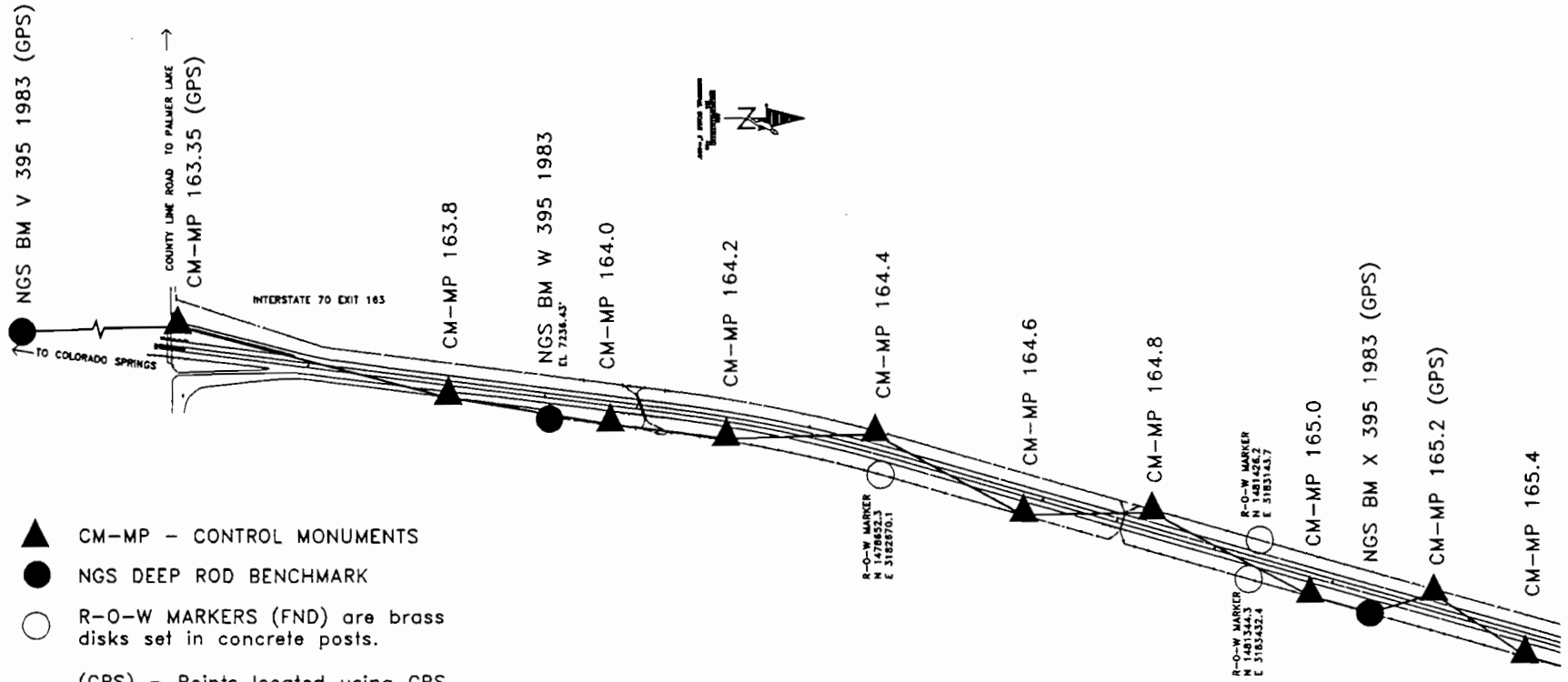
CONTROL SURVEY DIAGRAM

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 El Paso County Line - North
 Sections 11, 14, 23, 26, 35, T 10 S, R 67 W, 6th P.M.
 Section 2, T 11 S, R 67 W, 6th P.M.
 Douglas and El Paso Counties, Colorado

FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
VIII	COLO.	IM 0252-269	2	3

RIGHT OF WAY
 Subaccount 93201

REVISIONS	



- ▲ CM-MP - CONTROL MONUMENTS
- NGS DEEP ROD BENCHMARK
- R-O-W MARKERS (FND) are brass disks set in concrete posts.

(GPS) - Points located using GPS and tied to the Colorado High Precision Network. See symbol for monument type.

PLEASE CONSIDERATION: THIS MAP IS FOR INFORMATION ONLY IN BOOK OF THE COUNTY LAND SURVEYS/RIGHT OF WAY SURVEYS AT PAGE _____ RECEPTION NUMBER _____ SHOWN DOT.



DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO
CONTROL SURVEY DIAGRAM

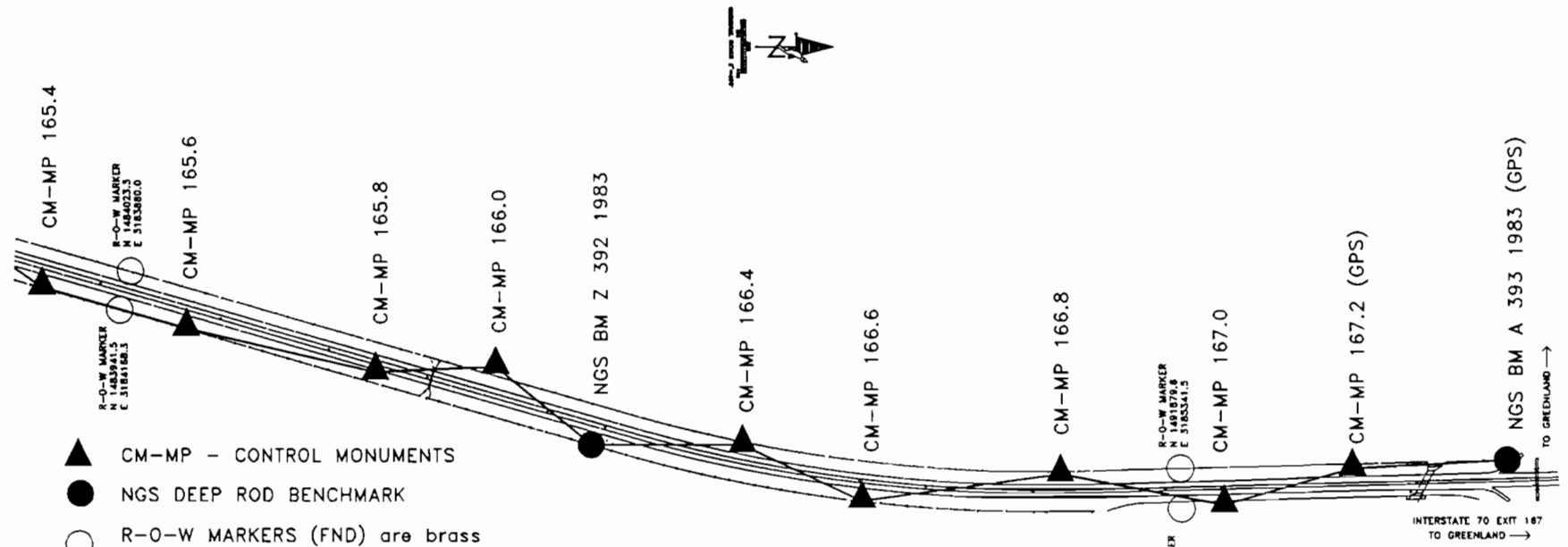
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VIII	COLO.	IM 0252-269	3	3

RIGHT OF WAY
 Subaccount 93201

REVISIONS	

PLUMB CERTIFICATION
 REPORTED THIS _____ DAY OF _____ A.D. FOR INFORMATION
 ONLY IN BOOK _____ OF THE COUNTY LAND SURVEYS/BLKBT OF NAT
 SURVEYS AT PAGE _____ RECEPTION NUMBER _____
 DRAWN BY _____
 CHECKED BY _____



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INTERSTATE 70 EXIT 187
 TO GREENLAND →