

COLORADO DEPARTMENT OF TRANSPORTATION
SURVEY CONTROL DIAGRAM
IN SECTIONS 15, 16, 20, 21 and 22,
T.3S., R.69 W. of the 6th P.M.
JEFFERSON COUNTY
C.D.O.T Projects: #IM 0703-245, Project Code:12280
 : #IM 0704-182, Project Code:11691
I-70, W. of Wadsworth to S.H. 58
Prepared by: C.D.O.T., Region 6 R.O.W.

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO			
RIGHT OF WAY		REVISIONS		

TABULATION OF CONTROL MONUMENTS – PROJECT SPECIFIC – METERS

PNT	NORTHING	EASTING	ELEVATION	MONUMENT DESCRIPTION OF POINTS SET UNLESS NOTED OTHERWISE
1	521561.557	949061.712	1627.863	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048089"
2	521564.581	948868.687	1629.182	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048092 B"
3	521552.086	948687.593	1630.865	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048094"
4	521577.412	948489.457	1631.906	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048096 A"
5	521547.678	948856.373	1633.849	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048092 A"
6	521544.427	949087.300	1630.784	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048090"
7	521543.121	948938.618	1635.309	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048091"
8	521542.652	948847.030	1635.976	FOUND - CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048092 1990"
9	521542.336	948729.107	1633.833	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048093"
10	521551.405	948623.508	1631.345	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048095"
11	521575.288	948455.930	1632.313	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048096"
12	521596.647	948255.990	1639.184	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048098"
13	521604.994	948281.981	1638.451	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048097"
14	521622.740	948216.497	1639.699	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048099"
15	521629.440	948079.369	1635.544	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048100"
16	521617.105	947939.546	1637.167	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048101"
17	521574.410	948108.095	1642.097	FOUND - CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.053100"
18	521574.991	947934.328	1640.566	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047101"
19	521498.671	949107.563	1629.694	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047090"
20	521497.624	948928.432	1635.294	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047091"
21	521498.256	948808.364	1635.651	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047093"
22	521524.688	948447.851	1632.474	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047098 A"
23	521531.429	948345.129	1633.489	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047099"
24	521519.420	948094.347	1635.724	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047100"
25	521534.039	947916.532	1638.734	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047102"
26	521479.171	949095.542	1627.510	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047088"
27	521472.190	948893.899	1628.846	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047092"
28	521475.530	948672.635	1630.854	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047094"
29	521505.688	948463.492	1632.095	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047096"
30	521517.138	948329.723	1633.412	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047098"
31	521597.447	947738.180	1637.085	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048103"
32	521591.126	947402.545	1640.227	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.048106"
33	521584.748	947013.086	1644.142	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047111"
34	521522.649	946826.894	1644.722	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.047113"
35	521472.071	946604.008	1646.302	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.046114"
36	521387.950	946379.235	1647.533	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.046117"
37	521325.541	946134.416	1650.040	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.046119"
38	521233.101	945928.114	1653.235	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.045121"
39	521152.913	945777.983	1658.696	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.045122 A"
40	520998.882	945582.677	1663.059	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.044124"
41	520951.070	945382.078	1666.684	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.043127"
42	520691.677	945198.780	1662.046	TYPE 1 MONUMENT-CDOT 3.25" ALUMINUM CAP STAMPED "CDOT 4.043129"
43	524852.631	938433.142	1813.733	FND. 5/8" STEEL ROD IN BOX WITH LOGO "F 411 RESET 1985"
44	516786.470	948092.619	1692.940	FND. 5/8" STEEL ROD IN BOX WITH LOGO "D 412 1984"
45	521529.191	948079.288	1635.654	FND. 3.25" BRASS CAP "CITY OF WHEAT RIDGE SURVEY MONUMENT LS 13212 T3S R69W S16 S15 S21 S22 1984"
46	522331.618	948076.388	1644.903	FND. 3.25" BRASS CAP "CITY OF WHEAT RIDGE SURVEY MONUMENT LS13212 T3S R69W 1/4 S16 S15 1988"
48	521760.901	953683.587	1644.458	FND. 3.5" BRASS CAP "US GEODETICAL SURVEY BM 37 DENVER 5392.97 FEET"

GENERAL NOTES

- This Control Diagram is not a boundary survey and is prepared for CDOT purposes only.
- 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 the certification shown hereon.
- No warranty is implied or expressed unless this sheet bears the original signature and seal of the preparer.
- All coordinates listed are project coordinates only.
- Field survey control precision computed to +/- 0.03 m. with a 95% certainty and are expressed to a higher order for the purpose of achieving the same published bearing and distance when inverting.
- BASIS OF BEARINGS:
Grid bearings are based on the NAD83-1992 datum by GPS positioning. Points 43, 44 and 48 were the held control monuments and are described on this sheet.
- BASIS OF ELEVATION:
Based on NGS published benchmark designation G-412 RESET (PID AE7678). The monument is 5/8" Stainless steel rod in R.B. with logo in the lid "G412 RESET 1996." NAVD '88 Elev.=1645.36 meters; Vert. Order-Third. All points of elevation were established by differential leveling.
- Elevations were run to an accuracy of +/- 6.6mm times the square root of the distance traversed in kilometers and are published to a higher accuracy to attain values as used for topography purposes.

PNT	NAME	NGS PID	LATITUDE (N)	LONGITUDE (W)	STATE PLANE COORDINATES		ELLIPSOID HEIGHT	ORTHOMETRIC HEIGHT	CONVERGENCE ANGLE	GRID SCALE FACTOR
					NORTH	EAST				
43	F411 RESET	KK2128	39°48'50.64653"	105°13'19.46448"	524,721.998	938,199.572	1798.06	1813.733	0°10'31"	1.00001330
44	D412	KK1459	39°44'28.02956"	105°06'34.91024"	516,657.845	947,856.644	1676.55	1692.94	0°14'46.2"	0.99999826
48	BM37	AE5248	39°47'08.43245"	105°02'39.10579"	521,631.038	953,446.221	1627.60	1644.458	0°17'14.9"	1.00000725

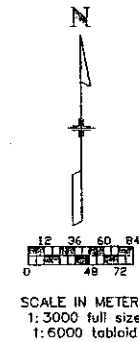
SURVEYOR'S REGISTER (FIELD)
Colorado Survey Monumentation was done under my supervision and checking.
PROF. SEAL 29757
DATE 11/29/99
PROFESSIONAL LAND SURVEYOR NO. 29757

Aug 05, 1999, 09:30: \\Kimmirous\12280\sef.dwg model view 3 Code: 12280, 11691 SK Scale-> 1: 3000 METERS

COLORADO DEPARTMENT OF TRANSPORTATION
SURVEY CONTROL DIAGRAM
IN SECTIONS 15, 16, 20, 21 and 22,
T.3S., R.69 W. of the 6th P.M.
JEFFERSON COUNTY
C.D.O.T Projects: #IM 0703-245, Project Code:12280
 : #IM 0704-182, Project Code:11691
I-70, W. of Wadsworth to S.H. 58
Prepared by: C.D.O.T., Region 6 R.O.W.

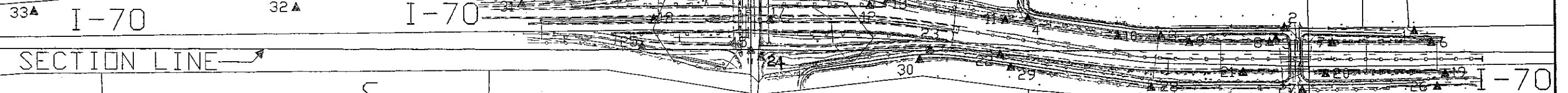
FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO			
RIGHT OF WAY				
REVISIONS				

Sec.
15



Sec.
16

W. 49th Ave.



Parfet St.

Oak St.

Nelson

46th Ave.

Miller St.

Kipling St.

SECTION LINE

Independence

Hoyt St.

Holland St.

Garland St.

Garrison St.

Field St.

Everett Ct.

Everett St.

Sec.
21

44th Ave.

Sec.
22

COLORADO DEPARTMENT OF TRANSPORTATION
SURVEY CONTROL DIAGRAM

IN SECTIONS 15, 16, 20, 21 and 22,
T.3S., R.69 W. of the 6th P.M.

JEFFERSON COUNTY

C.D.O.T Projects: #IM 0703-245, Project Code:12280

: #IM 0704-182, Project Code:11691

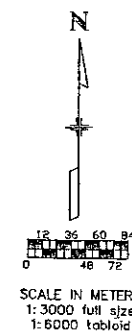
I-70, W. of Wadsworth to S.H. 58

Prepared by: C.D.O.T., Region 6 R.O.W.

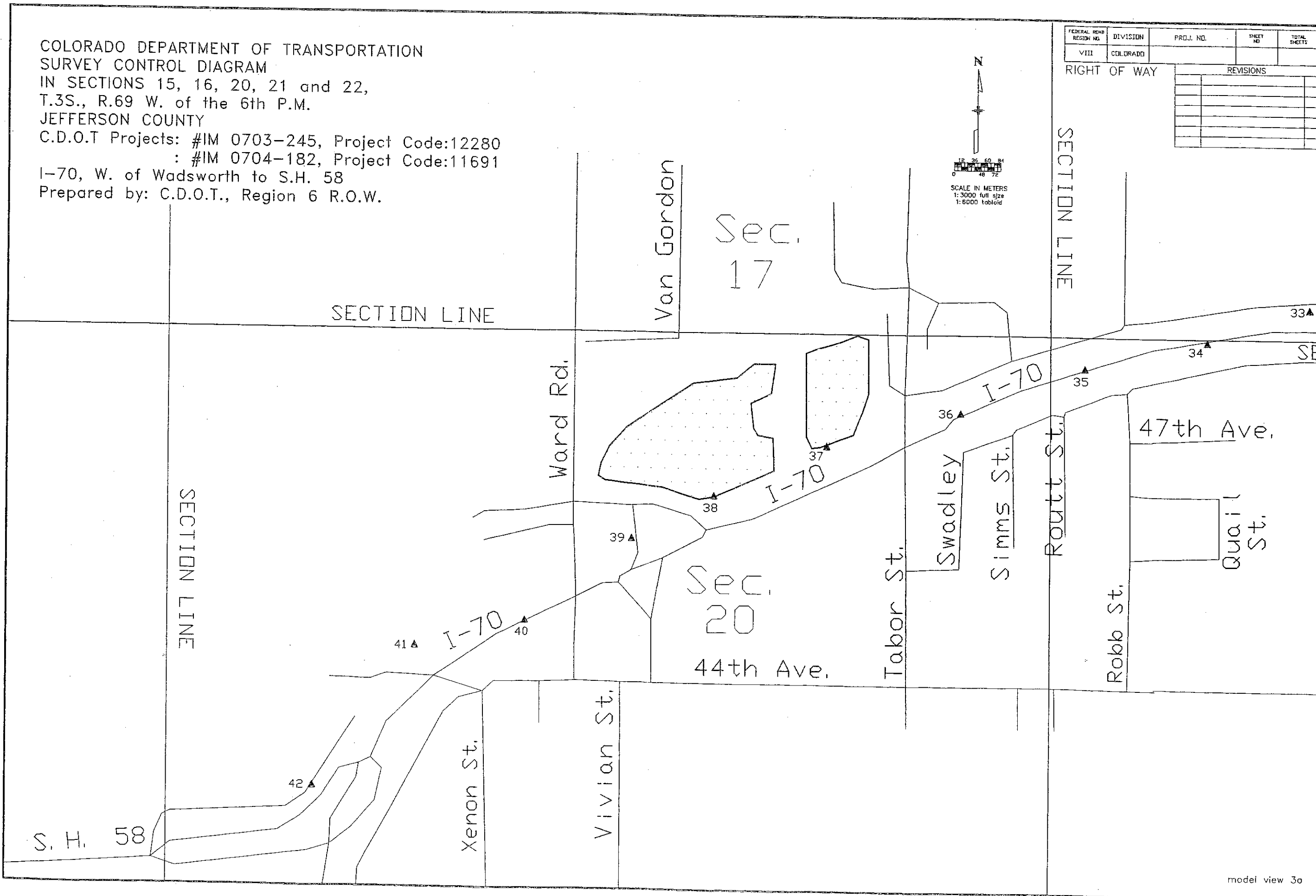
FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO			

RIGHT OF WAY

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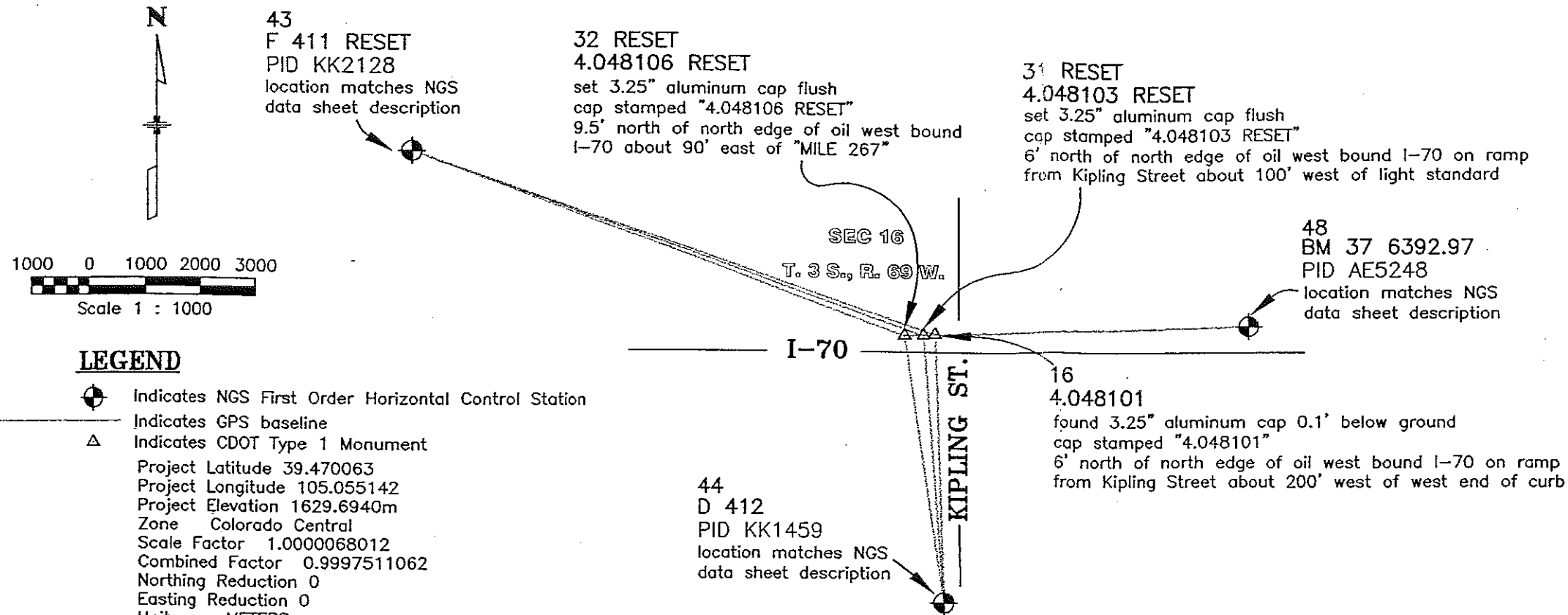


model view 3a

SUPPLEMENTAL SURVEY CONTROL DIAGRAM
C.D.O.T. PROJECT NO. IM 0703-245 (I-70 & KIPLING)
LOCATED IN SECTION 16, T. 3 S., R. 69 W. OF THE 6TH P.M.
JEFFERSON COUNTY, COLORADO

SURVEY CONTROL DIAGRAM
PROJECT NO.
IM 0703-245 (I-70 & KIPLING)

PROJECT CODE: SHEET NUMBER: 1 OF 1



GENERAL NOTES

1. This Control Diagram is not a boundary survey and is prepared for CDOT purposes only.
2. 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 the certification shown hereon.
3. Field survey control precision computed to ± 0.03 meters with a 95% certainty and are expressed to a higher order for the purpose of achieving the same published bearing and distance when inverting.
4. BASIS OF BEARINGS:
All inverse bearings are grid bearings based on NAD83-1992 Colorado State Plane Central Zone (502).
Points 43, 44 and 48 were the held control monuments as shown hereon.
5. BASIS OF ELEVATION:
Based on NGS published benchmark designation G-412 RESET (PID AE7678).
The monument is 5/8" Stainless steel rod in R.B. with logo in the lid "G412 RESET 1996." NAVD88 Elevation = 1645.36 meters; Vert. Order-Thrid. Points 31 & 32 RESET were established by differential leveling from point 16.
6. Elevations were run to an accuracy of ± 6.6 mm times the square root of the distance traversed in kilometers.

TABULATION OF CONTROL MONUMENTS
PROJECT SPECIFIC - METERS

Point	Northing	Easting	Elevation	Description
16	521617.105	947939.546	1637.167	Found type 1 monument - CDOT 3.25" aluminum cap stamped "4.048101"
31 RESET	521598.313	947738.078	1637.133	Set type 1 monument - CDOT aluminum cap stamped "4.048103 RESET"
32 RESET	521590.933	947401.727	1640.292	Set type 1 monument - CDOT aluminum cap stamped "4.048106 RESET"

TABULATION OF CONTROL MONUMENTS
NAD83 (1992) - COLORADO STATE PLANE - CENTRAL ZONE 502

Point	Latitude	Longitude	Ellipsoid Height	State Plane Coordinates		Orthometric Height NAVD88	Grid Scale Factor	Convergence Angle
				North	East			
43	39°48'50.64653"N	105°13'19.46448"W	1798.06	524721.998	938199.572	1813.68	1.00001330	0°10'31"
44	39°44'28.02956"N	105°06'34.91024"W	1676.55	516657.845	947856.644	1692.940	0.99999826	0°14'46"
48	39°47'08.43245"N	105°02'39.10579"W	1627.60	521631.038	953446.221	1644.4	1.00000725	0°17'15"
16	39°47'04.63683"N	105°06'40.46956"W	1620.696	521487.278	947703.610	1637.167	1.00000703	0°14'43"
31 RESET	39°47'04.05553"N	105°06'48.93753"W	1620.663	521468.490	947502.192	1637.133	1.00000700	0°14'37"
32 RESET	39°47'03.86245"N	105°07'03.07055"W	1623.849	521461.112	947165.924	1640.292	1.00000699	0°14'28"

SURVEYOR'S STATEMENT:

I, Geoffrey Stephenson, a Professional Land Surveyor in the State of Colorado, do hereby certify that the Survey Control Diagram was prepared, and the field survey it depicts was performed, under my responsible charge; is based upon my knowledge, information and belief; and was executed in accordance with applicable standards of practice. This statement is not a guaranty or warranty, either expressed or implied.

Geoffrey Stephenson
Geoffrey Stephenson, PLS No.23521
Date 02/26/2001

COUNTY SURVEYOR'S CERTIFICATION:

Deposited this _____ day of _____, 20____, at _____ o'clock _____ m.,
in book _____ of the County Surveyor's Land Survey plats/right-of-way
surveys at page _____, reception no. _____

County Surveyor