

DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO

RIGHT OF WAY PLAN OF PROPOSED PROJECT NO. CY 11-0093-11 UNIT 1 STATE HIGHWAY NO. 93 JEFFERSON COUNTY

RIGHT OF WAY
S.H. 93 - NORTH OF
GOLDEN BYPASS

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NUMBER
VIII	COLO.	CY 11-0093-11 UNIT 1	1
REVISIONS			

CONVENTIONAL SIGNS

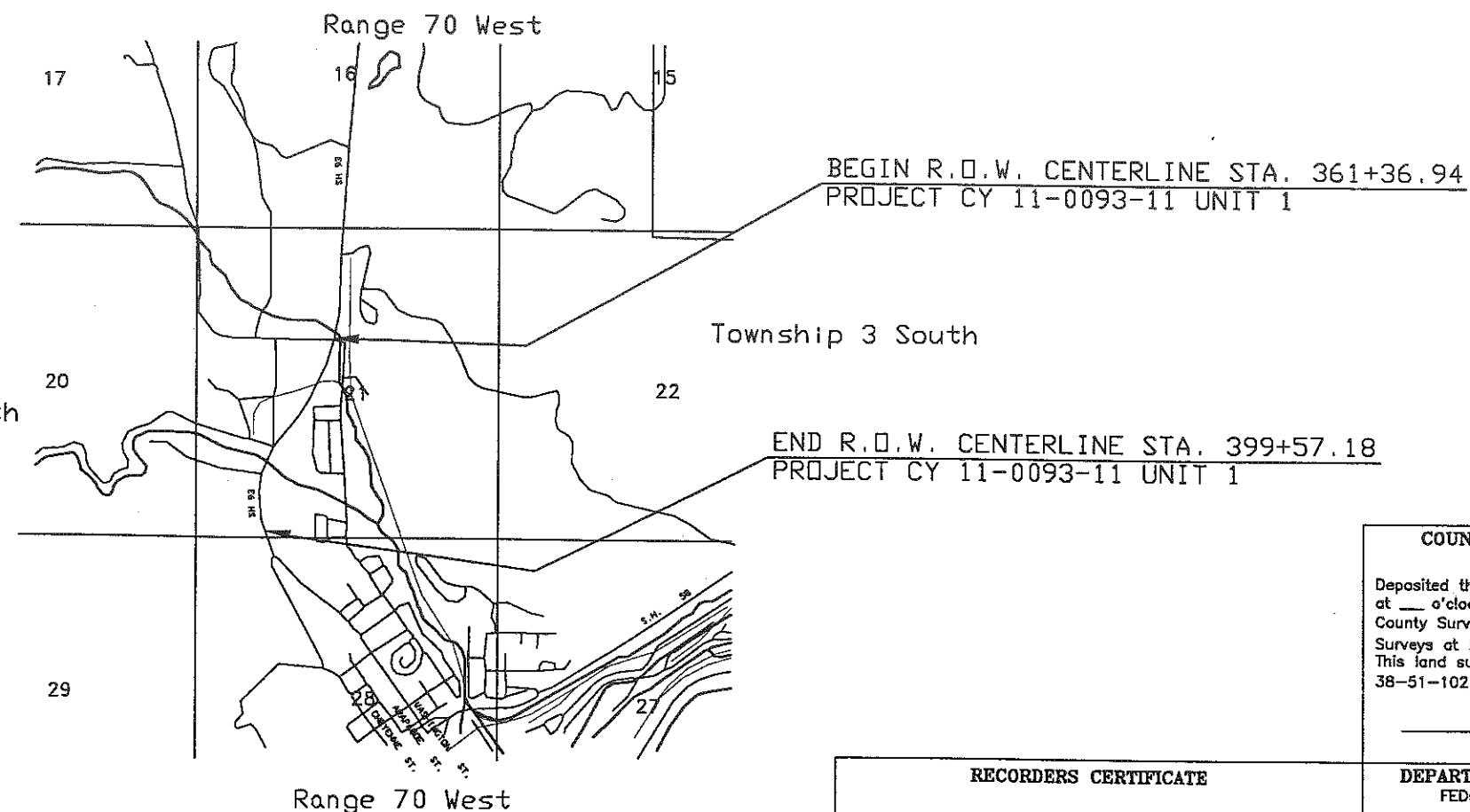
County Line	-----
Township or Range Line	-----
Land Lines	Section Line 1/4 Section Line 1/16 Section Line
Property or Tract Line	-----
City Limits	-----
Railroad	-----
Existing Road	=====
New Road	=====
Control of Access	-----
Access denied by Deed	-----
Right of Way Line	-----
Protected by Freeway(Virgin Location)	-----
Top of Cuts	-----
Toe of Fills	-----
Barbed Wire Fence	-----
Chain Link Fence	-----
Woven Wire-Combination Fence	-----
Snow Fence	-----
Wood Fence	-----
Deer Fence	-----
Trees	Deciduous Coniferous
Tel. & Teleg. Lines	-----
Electric Lines	-----
Elec. Trans. Tower	-----
Buried Tel. Cable	-----
Buried Electric Cable	-----
Gas Main	-----
Oil Main	-----
Water Main	-----
Sanitary Sewers	-----
Storm Sewers	-----
Road Approaches	-----
Section Corner	-----
Culverts & Drains	-----
Bridges	-----



Township 3 South

SCALES OF ORIGINAL DRAWINGS

PLAN SHEETS 1" = 50'
R.O.W. LENGTH OF PROJECT = 0.72 MILES



NOT TO SCALE

INDEX OF SHEETS

- 1 TITLE SHEET
- 2 TABULATION OF PROPERTIES SHEET
- 3-3G CONTROL AND MONUMENTATION SHEET
- 4-6 PLAN SHEETS

BASIS OF BEARINGS

BASIS OF BEARING: Bearings are referenced to the grid bearing between points 65 and 66 as determined by Global Positioning System method. The line between the two standard CDOT type 2 monuments bears N. 08° 25' 15" E.

COUNTY SURVEYORS CERTIFICATE

Deposited this ___ day of ___, 19___
at ___ o'clock __m., in book ___ of the
County Surveyor's Land Survey Plats/Right-of-Way
Surveys at Page ___, Reception No. _____.
This land survey plat complies with Section
38-51-102, Colorado Revised Statutes.

COUNTY SURVEYOR

RECORDERS CERTIFICATE

Accepted for filing in the office of the
County Clerk and Recorder of Jefferson
County at Golden, Colorado on this ___
day of ___, 19___ at ___ o'clock __m.
Accepted for filing in the office of the

JEFFERSON COUNTY CLERK AND RECORDER

BY: DEPUTY CLERK

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

AUTHORIZED

DATE

DIVISION ADMINISTRATOR

SURVEY CONTROL DIAGRAM

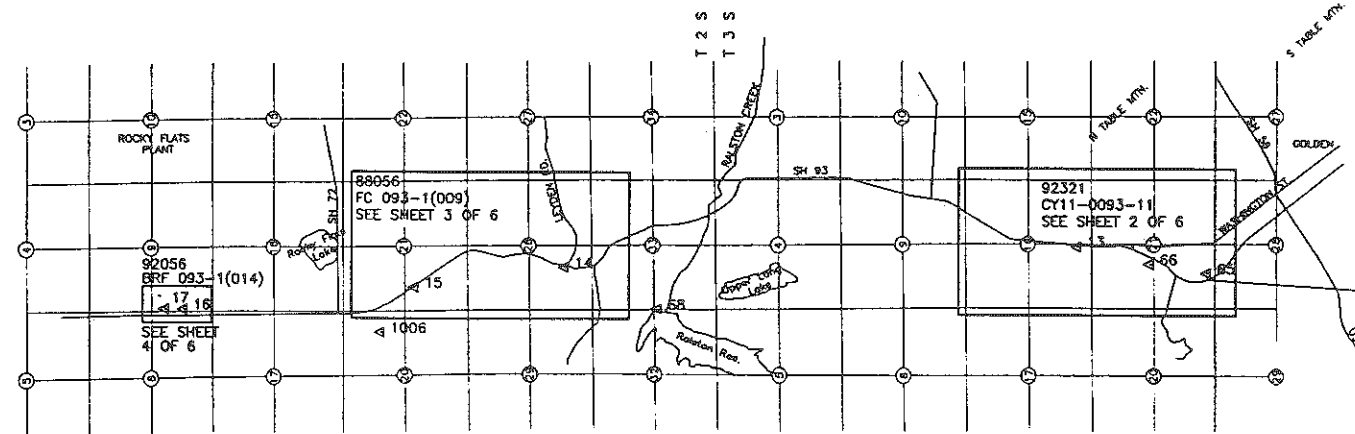
FOR THE COLORADO DEPARTMENT OF TRANSPORTATION, REGION 6
 STATE HIGHWAY 93 NORTH OF THE GOLDEN BYPASS (CY 11-0093-11)
 STATE HIGHWAY 93 FROM LEYDEN ROAD TO THE NORTH (FC 093-1(009))
 STATE HIGHWAY 93 AT STRUCTURE E-15-Z (BRF-093-1(14))
 LYING IN SECTIONS 9, 21, 28, TOWNSHIP 2 SOUTH, RANGE 70 WEST,
 AND SECTIONS 16, 21, 28, TOWNSHIP 3 SOUTH, RANGE 70 WEST,
 OF THE 6TH PRINCIPAL MERIDIAN
 COUNTY OF JEFFERSON, STATE OF COLORADO

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

REVISIONS	



0 4000 8000 12000
 SCALE IN FEET
 1" = 4000'



NOTE: SEE SHEET 5 OF 6
 FOR POINT DESCRIPTIONS

SUB ACCOUNT #92321, #92056 & #88056

CONTROL.DWG 11-05-94

COMPUTER GENERATED DRAWING DO NOT ALTER MANUALLY



J.F. SATO AND ASSOCIATES
 Consulting Engineers
 Project Managers, Planners & Surveyors
 5898 So. Rupp St. • Littleton, CO 80120 • (303) 797-1200

SH 93 - GOLDEN TO NORTH OF SH 72
KEY SHEET

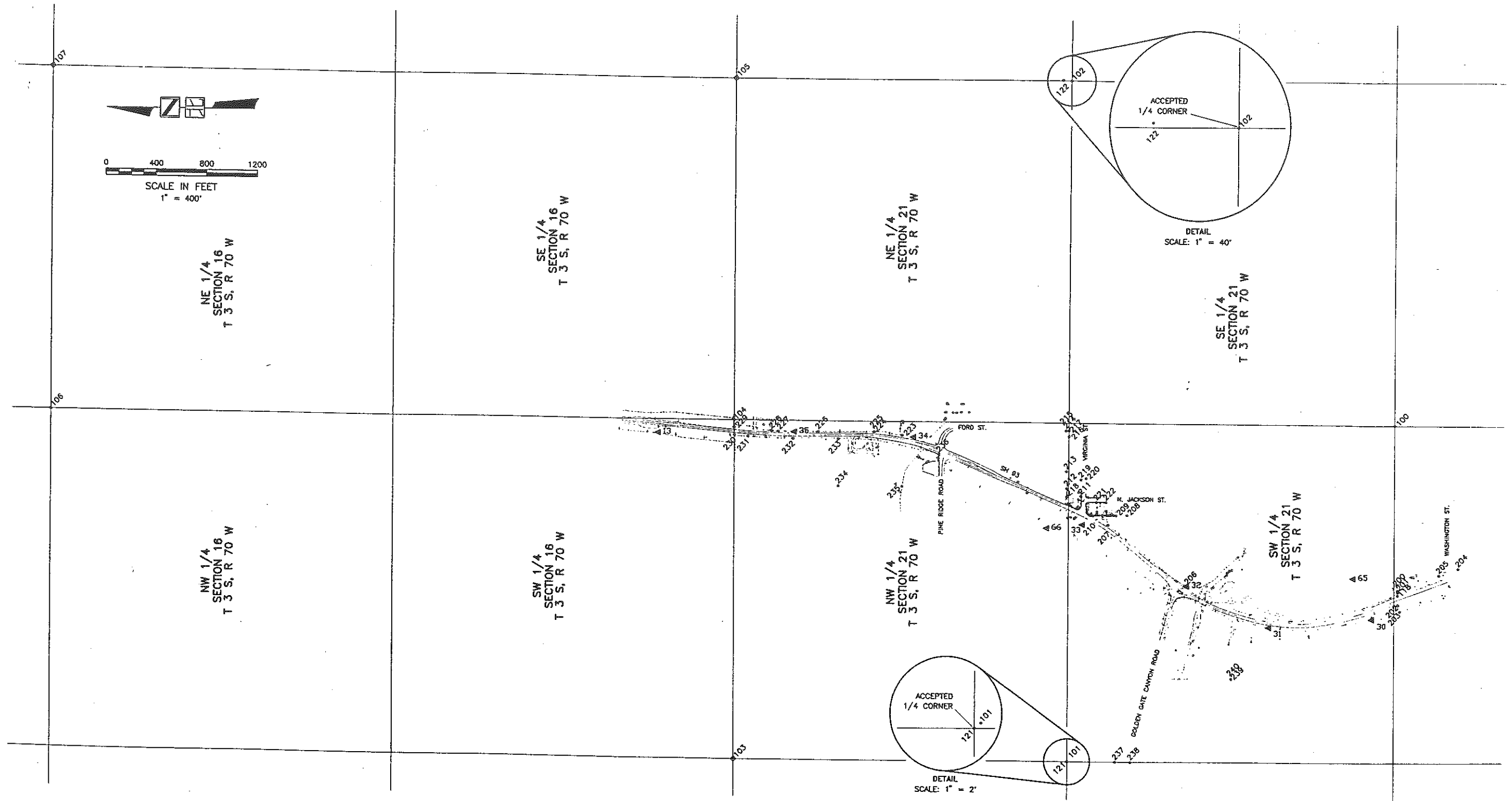
DATE	PROJECT NO.	DESIGNED BY	SHEET NO.	DRAWING NO.
2-3-94	JF92038	SHI	1	
		CHECKED BY	OF 6 SHEETS	

SURVEY CONTROL DIAGRAM

FOR THE COLORADO DEPARTMENT OF TRANSPORTATION, REGION 6
 STATE HIGHWAY 93 NORTH OF THE GOLDEN BYPASS (CY 11-0093-11)
 STATE HIGHWAY 93 FROM LEYDEN ROAD TO THE NORTH (FC 093-1(009))
 STATE HIGHWAY 93 AT STRUCTURE E-15-Z (BRF-093-1(14))
 LYING IN TOWNSHIPS 2 AND 3 SOUTH, RANGE 70 WEST, 6TH PRINCIPAL MERIDIAN
 COUNTY OF JEFFERSON, STATE OF COLORADO

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

REVISIONS	



NOTE: SEE SHEET 5 OF 6
 FOR POINT DESCRIPTIONS



J.F. SATO AND ASSOCIATES
 Consulting Engineers
 Project Managers, Planners & Surveyors
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SH 93 - GOLDEN TO NORTH OF SH 72
PORTION N. OF GOLDEN BYPASS

SUB ACCOUNT #92321
 CONTROL.DWG 11-05-94

COMPUTER GENERATED DRAWING DO NOT ALTER MANUALLY

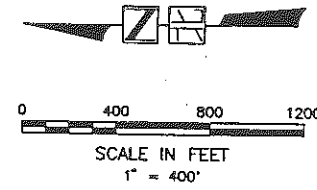
DATE	PROJECT NO.	DESIGNED BY	SHEET NO.	DRAWING NO.
2-3-94	JF92038	SHL	2	
		CHECKED BY	OF 8 SHEETS	

SURVEY CONTROL DIAGRAM

FOR THE COLORADO DEPARTMENT OF TRANSPORTATION, REGION 6
 STATE HIGHWAY 93 NORTH OF THE GOLDEN BYPASS (CY 11-0093-11)
 STATE HIGHWAY 93 FROM LEYDEN ROAD TO THE NORTH (FC 093-1(009))
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 COUNTY OF JEFFERSON, STATE OF COLORADO

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

REVISIONS	



NE 1/4
SECTION 21
T 2 S, R 70 W

SE 1/4
SECTION 21
T 2 S, R 70 W

NE 1/4
SECTION 28
T 2 S, R 70 W

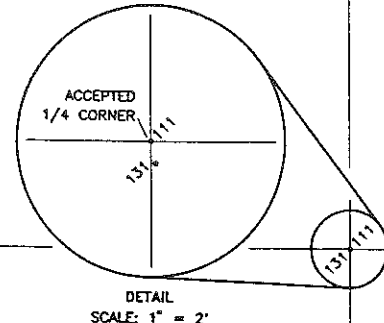
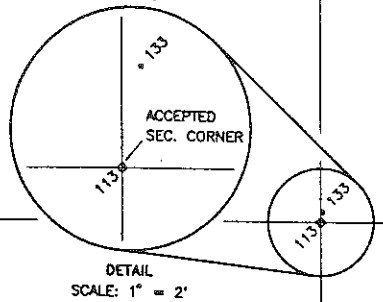
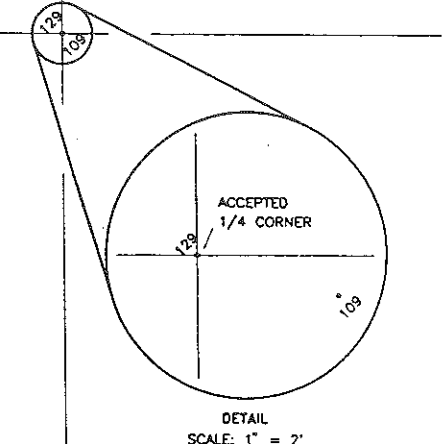
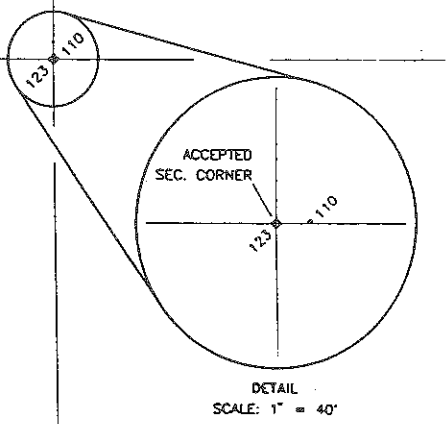
SE 1/4
SECTION 28
T 2 S, R 70 W

NW 1/4
SECTION 21
T 2 S, R 70 W

SW 1/4
SECTION 21
T 2 S, R 70 W

NW 1/4
SECTION 28
T 2 S, R 70 W

SW 1/4
SECTION 28
T 2 S, R 70 W



NOTE: SEE SHEET 5 OF 6
 FOR POINT DESCRIPTIONS



J.F. SATO AND ASSOCIATES
 Consulting Engineers
 Project Managers, Planners & Surveyors
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SH 93 - GOLDEN TO NORTH OF SH 72 PORTION FROM LEYDEN RD. TO NORTH				
DATE	PROJECT NO.	DESIGNED BY	SHEET NO.	DRAWING NO.
2-3-94	JF92038	DRW BY SHH CHKD BY JFS	3	

SUB ACCOUNT #88056

CONTROL.DWG 11-05-94

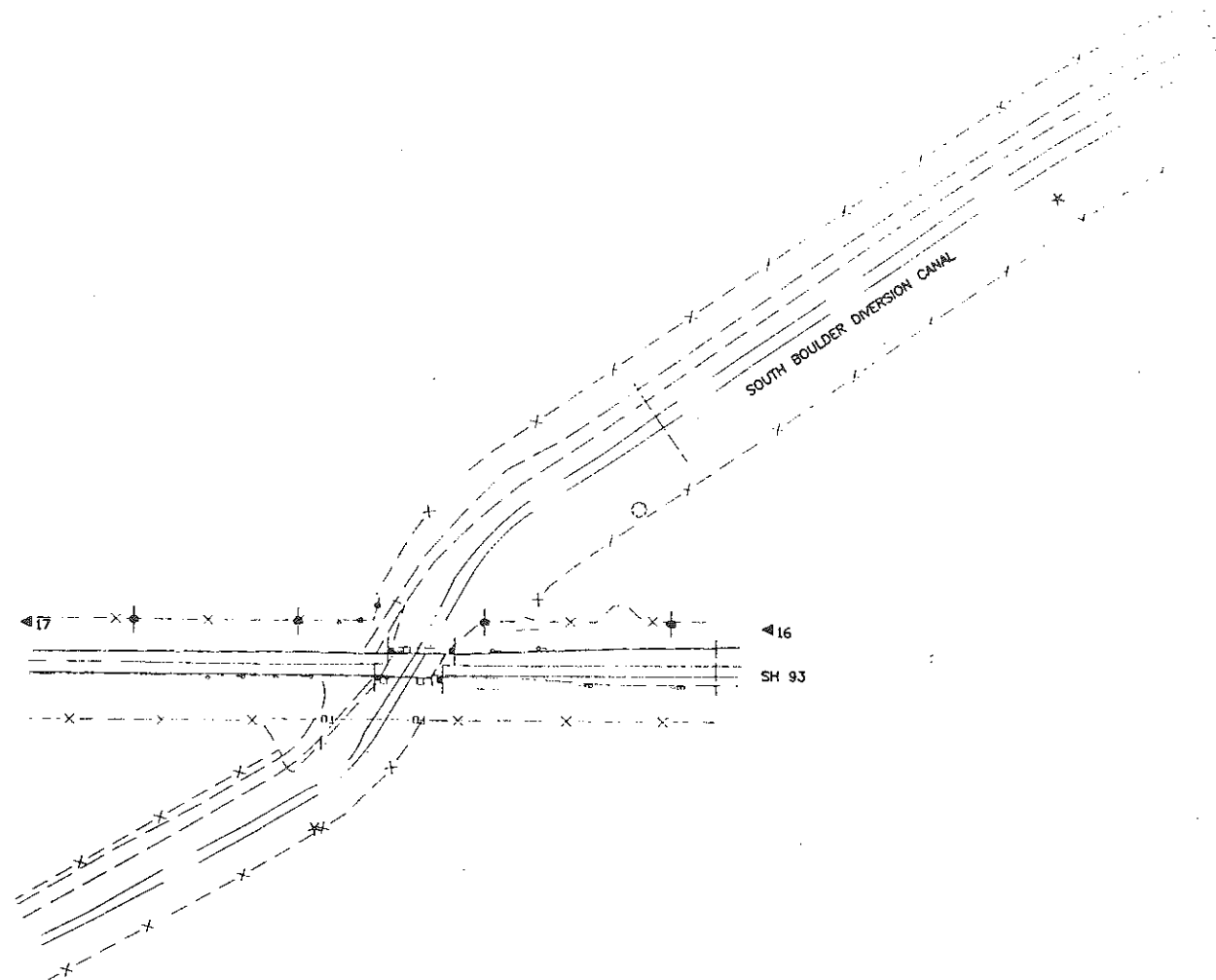
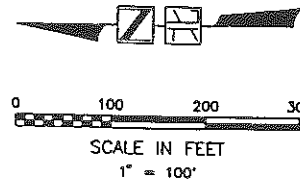
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SURVEY CONTROL DIAGRAM

FOR THE COLORADO DEPARTMENT OF TRANSPORTATION, REGION 6
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 LYING IN TOWNSHIPS 2 AND 3 SOUTH, RANGE 70 WEST, 6TH PRINCIPAL MERIDIAN
 COUNTY OF JEFFERSON, STATE OF COLORADO

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

REVISIONS		



NOTE: SEE SHEET 5 OF 6
 FOR POINT DESCRIPTIONS



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**SH 93 - GOLDEN TO NORTH OF SH 72
 AT STRUCTURE E-15-Z**

DATE	PROJECT NO.	DESIGNED BY	SHEET NO.	DRAWING NO.
2-3-94	JF92038	DRN	4	
		DRAWN BY	SHL	
		CHECKED BY	YS	
			OF 6 SHEETS	

SUB ACCOUNT #92056

CONTROL DWG 11-05-94

COMPUTER GENERATED DRAWING DO NOT ALTER MANUALLY

SURVEY CONTROL DIAGRAM

FOR THE COLORADO DEPARTMENT OF TRANSPORTATION, REGION 6
STATE HIGHWAY 93 NORTH OF THE GOLDEN BYPASS (CY 11-0093-11)
STATE HIGHWAY 93 FROM LEYDEN ROAD TO THE NORTH (FC 093-1(009))
STATE HIGHWAY 93 AT STRUCTURE E-15-Z (BRF-093-1(14))
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COUNTY OF JEFFERSON, STATE OF COLORADO

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

REVISIONS	

DENVER METRO AREA GPS GEODETIC CONTROL SURVEY COLORADO DEPARTMENT OF TRANSPORTATION, REGION 6 STATE PLANE COORDINATES 6-17-93, ADJUSTMENT 29906_C (METERS) COLORADO COORDINATE SYSTEM OF 1983(1991), CENTRAL ZONE

PRIMARY SURVEY CONTROL POINTS UTILIZED IN STATIC GPS SURVEY

PT	SERIAL ID	NAME	NORTHING	EASTING	CONVERGENCE	GRID SCALE
* 13	4.049198	QUARRY	521477.996	937405.988	0° 10' 09.73"	1.0000071
* 14	4.081199	AWAZNEZHAD	528102.261	937113.094	0° 10' 02.48"	1.0000201
* 15	4.091201	AQUEDUCT	530044.307	936862.491	0° 09' 55.98"	1.0000241
* 16	4.110204	SIROVATKA	533057.669	936558.104	0° 09' 48.13"	1.0000305
* 17	4.111204	BUMANGLAG	533303.130	936557.796	0° 09' 48.14"	1.0000310
52		RWCL 100	513208.391	932099.000	0° 07' 48.57"	0.9999924
54		OVERLOOK	541714.279	941013.970	0° 11' 47.20"	1.0000502
* 65		TUCKER GULCH	519800.517	937083.049	0° 10' 01.04"	1.0000040
* 66		CRESSMAN'S GULCH	520541.510	937192.744	0° 10' 04.01"	1.0000053
1004	4.076204	RALSTON	526895.095	936596.761	0° 09' 48.69"	1.0000176
1006	4.082148		528403.714	943114.747	0° 12' 41.72"	1.0000206
	4.094211		530475.639	936294.348	0° 09' 40.94"	1.0000250

* DENOTES CDOT TYPE 2 MONUMENT SET BY CDOT FIELD CREWS FOR THIS PROJECT

SURVEY CONTROL & ALIQUOT CORNERS FROM FAST STATIC GPS OBSERVATIONS

PT	DESCRIPTION	NORTHING	EASTING
100	3" SO. IRON PLATE IN CONCRETE	519704.533	937444.171
101	#4 REBAR IN 1" PIPE	520469.737	936640.517
102	9" x 11" x 17" GRANITE STONE	520491.431	938237.902
103	1" HEAD BOLT IN ASPH	521291.252	937438.054
104	1-1/2" IRON PIPE	521296.264	936637.649
105	6" x 12" x 14" STONE	521301.140	938232.745
106	TRIANGULAR STONE W/CHISELED CROSS	522940.994	937439.925
108	3" BRASS PLATE IN CONCRETE	527747.898	936579.274
109	3" BRASS CAP DWW	527761.723	937388.358
110	3" BRASS CAP DWW	527776.148	938201.699
111	6" x 8" x 10" STONE WITH CROSS	528555.093	936577.575
112	2" BRASS CAP IN CONC "MSM"	528577.382	938196.847
113	1" IRON PIPE IN ROCK MOUND	529359.331	936575.512
114	2-1/4" IRON CAP ON PIPE IN CONC.	529370.836	937383.214
115	2" BRASS CAP IN CONCRETE	529378.552	938192.000
116	3" CAPPED IRON PIPE IN CONCRETE	530174.820	937377.085
117	1-1/4" IRON PIPE IN ROCK MOUND	530182.870	938182.970
122	4" PIPE FILLED WITH CONCRETE	520512.133	938238.849

PROJECT SPECIFIC DATUM PLANE COORDINATES (US SURVEY FEET)

EXISTING AND SET CONTROL POINTS

PT	NORTHING	EASTING	ELEV.	DESCRIPTION
13	85505.017	61059.795		4.049198 QUARRY
14	107244.000	60098.599		4.081199 AWAZNEZHAD
15	113617.251	59276.190		4.091201 AQUEDUCT
16	123506.262	58277.277		4.110204 SIROVATKA
17	124311.796	58276.267		4.111204 BUMANGLAG
* 30	79852.717	59682.527	5909.39	4.038202
* 31	80660.882	59609.231	5932.30	4.039202
* 32	81309.142	59926.220	5943.41	4.040201
* 33	82152.311	60391.034	5974.09	4.042200
* 34	83492.586	61051.512	5991.58	4.045198
* 35	84430.646	61079.247	5993.27	4.047197
* 36	108278.596	60449.258	5290.56	4.084199
* 37	109233.619	60713.692	5963.23	4.085198
* 38	109993.814	60533.296	6003.47	4.086199
* 39	110878.562	60737.530	6049.80	4.087198
* 40	111868.889	60503.517	6138.10	4.089199
* 41	113011.324	59834.480	6194.16	4.090200
65	80000.000	60000.000		OVERLOOK
66	82431.732	60359.988		CRESSMAN'S GULCH
68	103282.419	58404.139		4.076204 RALSTON

* DENOTES CDOT TYPE 2 MONUMENT SET BY JFSA FIELD CREWS FOR THIS PROJECT

PROJECT SPECIFIC DATUM PLANE COORDINATES (US SURVEY FEET)

FOUND AND SET ALIQUOT CORNERS

TOWNSHIP 3 SOUTH, RANGE 70 WEST, 6TH P.M.

PT	NORTHING	EASTING	DESCRIPTION
100	79685.008	61185.100	3" SO. IRON PLATE IN CONCRETE BLOCK STAMPED 1/4 W/CROSS (S1/4 S21)
101	82261.827	63793.012	4" REBAR IN 1" PIPE
**102	82267.385	63789.906	9" x 11" x 17" GRANITE STONE (E1/4 S21)
103	84892.174	58538.321	1" HEAD BOLT IN ASPH (NW COR S21)
104	84908.624	61165.026	1-1/2" IRON PIPE (N1/4 S21)
105	84924.623	63772.979	6" x 12" x 14" STONE (NE COR S21)
106	90306.167	61171.167	TRIANGULAR STONE WITH CHISELED CROSS (N1/4 S16)
107	90330.092	63789.681	10" x 8" x 8" STONE WITH CROSS (NE COR S16)
118	79654.696	59870.911	#10 REBAR (W1/16 S21-S28)
**121	82262.094	58547.540	3" x 4" x 9" STONE (W 1/4 S21)
122	82335.323	63793.012	4" PIPE W/CONC & NAIL

TOWNSHIP 2 SOUTH, RANGE 70 WEST, 6TH P.M.

108	106081.081	58346.753	3" BRASS PLATE IN CONCRETE BLOCK STAMPED G.COORS DK GARDNER 1927
109	106126.450	61001.937	0.M.W.W. 3" BRASS CAP STAMPED 1/4 COR LS 7738 1974 (S1/4 S28)
110	106173.789	63671.090	0.M.W.W. 3" BRASS CAP STAMPED SEC COR LS 7738 1974 (SE COR S28)
**111	108730.068	58341.175	6" x 8" x 10" STONE WITH CROSS (W1/4 S28)
112	108803.213	63655.172	2" BRASS CAP IN CONC "MSM" (E1/4 S28)
**113	113369.353	58334.405	1" IRON PIPE IN ROCK MOUND (NW COR S28)
114	11407.107	60965.058	2-1/4" IRON CAP ON PIPE IN CONC. (N1/4 S28)
115	11432.431	63639.266	2" BRASS CAP IN CONCRETE STAMPED W/SEC NUMBERS (NE COR S28)
116	114045.56	60964.945	3" CAPPED IRON PIPE IN CONCRETE (C1/4 S21)
117	114071.976	63609.634	1-1/4" IRON PIPE IN ROCK MOUND (E1/4 S21)
120	114018.976	58319.459	3" BRASS PLATE IN CONCRETE BLOCK STAMPED G.COORS DK GARDNER 1927
*123	106188.211	63670.046	3-1/4" ALUM. CAP ON 2-3/8" POST IN BOX (SE COR S28)
**129	106129.463	61002.748	7" x 5" x 16" STONE (S1/4 S28)
131	108729.965	58340.716	1 1/2" TST ALUM. CAP (W1/4 S28)
133	111361.765	58376.507	3/4" STEEL BOLT (NW COR S28)

* DENOTES CDOT TYPE 3A MONUMENT SET BY JFSA FIELD CREWS

** DENOTES MONUMENT ACCEPTED AS LAND CORNER (DOUBLE MONUMENTED CORNER)

FOUND ROW/PROPERTY CONTROL

TOWNSHIP 3 SOUTH, RANGE 70 WEST, 6TH P.M.

200	79655.553	59908.890	1-1/2" AL. CAP - DB & CO. PLS 17564
201	79655.049	59896.010	1" SMOOTH BAR
202	79652.608	59795.384	NO. 4 REBAR - BENT
203	79637.627	59745.396	NO. 5 REBAR
204	79178.106	60080.500	3-1/4" AL. CAP - CDOH ROW MON.
205	79330.010	60029.530	3-1/4" AL. CAP - CDOH ROW MON.
206	81307.949	59923.662	NO. 3 REBAR
207	81950.205	60390.735	NO. 3 REBAR
208	81799.373	60469.370	NO. 3 REBAR
209	81885.670	60466.877	NO. 3 REBAR
210	82089.509	60463.194	NO. 3 REBAR
211	82165.261	60612.331	CHISELED 5' OFFSET CROSS
212	82281.257	60674.076	NO. 3 REBAR
213	82283.491	60803.939	NO. 4 REBAR
214	82288.482	61114.415	NO. 3 REBAR
215	82288.174	61115.869	NO. 4 REBAR
216	82264.348	61070.980	CHISELED CROSS IN CONC. - WITNESS TO C1/4 S21
217	82264.445	61114.851	CHISELED CROSS IN CONC. - WITNESS TO C1/4 S21
218	82280.215	60609.174	NO. 3 REBAR
219	82167.449	60742.182	CHISELED 5' OFFSET CROSS
220	82127.401	60753.380	CHISELED 5' OFFSET CROSS
221	82043.755	60568.783	CHISELED 5' OFFSET CROSS
222	81968.592	60570.252	CHISELED 5' OFFSET CROSS
223	83586.223	61064.374	2" AL. CAP IN CONC. - J.R. ENG. LS 15258
224	83805.104	61087.494	2" AL. CAP IN CONC. - J.R. ENG. LS 15258
225	83807.203	61087.498	NO. 5 REBAR
226	84247.244	61083.644	2" AL. CAP IN CONC. - J.R. ENG. LS 15258
227	84560.830	61081.009	2" AL. CAP IN CONC. - J.R. ENG. LS 15258
228	84612.910	61083.014	2" AL. CAP IN CONC. - J.R. ENG. LS 15258
229	84908.290	61108.782	2" AL. CAP IN CONC. - J.R. ENG. LS 15258
230	84907.958	61048.225	NO. 4 REBAR WITH BLUE PLASTIC CAP (ILLEGIBLE)
231	84799.929	61039.425	NO. 4 REBAR
232	84444.416	61026.430	NO. 4 REBAR
233	84086.194	61029.960	NO. 4 REBAR
234	84085.048	60672.177	NO. 4 REBAR WITH BLUE PLASTIC CAP (ILLEGIBLE)
235	83584.985	60674.145	NO. 4 REBAR WITH BLUE PLASTIC CAP (ILLEGIBLE)
236	83290.408	60920.916	CHISELED CROSS IN CONCRETE
237	81881.423	58549.161	NO. 5 REBAR W/AL. CAP - DB AND CO. LS 2149
238	81760.160	58549.546	NO. 5 REBAR
239	80956.279	59203.525	NO. 4 REBAR
240	80956.468	59203.719	NO. 3 REBAR

PROJECT SPECIFIC DATUM PLANE COORDINATES (US SURVEY FEET)

FOUND ROW/PROPERTY CONTROL (CONTINUED)

TOWNSHIP 2 SOUTH, RANGE 70 WEST, 6TH P.M.

PT	NORTHING	EASTING	DESCRIPTION
300	113369.299	59592.421	NO. 3 REBAR - BENT
301	113307.434	59560.621	1-1/4" AL. CAP - TST 179 LS 14166
302	113611.380	59354.375	1-1/4" AL. CAP - TST 180 LS 14166
303	113708.885	59288.163	1-1/4" AL. CAP - TST 181 LS 14166
304	113765.254	59224.529	1-1/4" AL. CAP (BENT) - TST 181A LS 14166
305	114026.103	59041.927	1-1/4" AL. CAP - TST 182C LS 14166
306	114242.101	58891.012	1-1/4" AL. CAP - TST 182S LS 14166
307	114338.855	58823.177	3-1/4" AL. CAP - CDOT ROW #308 LS 22571
308	114410.421	58792.899	3-1/4" AL. CAP - CDOT ROW #309 LS 22571
309	113177.191	59649.073	1-1/4" AL. CAP - 16 SEC ROW L1 L1
310	114177.232	59041.793	3-1/4" AL. CAP - CDOT ROW #315 LS 22571
311	112435.101	60263.424	2" BRASS CAP W/PUNCH MARK IN CONC.
312	112560.492	60218.240	1-1/2" AL. CAP - MERRICK & CO. PLS 13155
313	111909.102	60471.957	1-1/2" AL. CAP - TST 239 LS 14166
314	111529.021	60693.737	1-1/2" AL. CAP - TST 240 LS 14166
315	111465.345	60716.196	1-1/2" AL. CAP - TST 241 LS 14166
316	111404.348	60734.767	1-1/2" AL. CAP - W.M. STENGEL LS 4846
317	111405.080	60830.176	1-1/4" BLUE PLASTIC CAP - RUBINO RLS 14142
318	111410.393	60832.811	2" BRASS CAP IN CONC. - A.O. BC-1 ELEV. 6095.7
319	110885.639	60734.056	1-1/2" AL. CAP - W.M. STENGEL LS 4846
320	110079.687	60536.712	1-1/2" AL. CAP - W.M. STENGEL LS 4846
321	110065.608	60379.182	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
322	109772.106	60315.710	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
323	109604.318	60542.551	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
324	109177.446	60233.115	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
325	109072.374	60255.917	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
326	108753.771	60067.399	1-1/2" AL. CAP - W.M. STENGEL LS 4846
327	108610.771	59982.530	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
328	108098.966	60014.693	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
329	108298.110	60341.649	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
330	108742.182	60414.586	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
331	108845.800	60401.385	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
332	108937.926	60457.014	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
333	107779.479	60051.212	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
334	107361.853	59691.162	1-1/2" AL. CAP - W.M. STENGEL LS 4846
335	107201.320	59934.847	1-1/2" AL. CAP - W.M. STENGEL LS 4846
336	106897.592	59873.778	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
337	106794.849	59761.354	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
338	106675.390	59760.903	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
339	106796.914	60134.862	1-1/2" AL. CAP - W.M. STENGEL LS 4846
340	107471.945	60246.870	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
341	107855.614	60361.412	3" BRASS CAP ON 6" CONC. CYL. - CDOH ROW MON.
342	107789.586	60049.899	1-1/2" AL. CAP - W.M. STENGEL LS 4846
343	107353.206	59716.438	1-1/2" AL. CAP - W.M. STENGEL LS 4846
344	106358.329	60577.918	1-1/4" BLUE PLASTIC CAP - RUBINO RLS 14142
345	106676.255	60668.295	1-1/4" BLUE PLASTIC CAP - RUBINO RLS 14142
346	112710.315	59650.253	1-1/4" AL. CAP - TST LS 14166
347	112712.136	59651.001	1" PIPE IN CONCRETE
348	111404.658	60817.879	1-1/2" AL. CAP - MERRICK & CO. PLS 13155
349	111819.579	60646.299	1-1/2" AL. CAP - MERRICK & CO. PLS 13155
350	112527.469	60157.678	1-1/2" AL. CAP - MERRICK & CO. PLS 13155
351	113215.432	59622.962	1-1/4" AL. CAP - TST 178 LS 14166
352	112679.041	59972.685	NO. 4 REBAR
353	112505.331	60080.660	1-1/4" AL. CAP - TST LS 14166

SURVEY CONTROL DIAGRAM
FOR THE COLORADO DEPARTMENT OF TRANSPORTATION, REGION 6
STATE HIGHWAY 93 NORTH OF THE GOLDEN BYPASS (CY 11-0093-11)
STATE HIGHWAY 93 FROM LEYDEN ROAD TO THE NORTH (FC 093-1(009))
STATE HIGHWAY 93 AT STRUCTURE E-15-Z (BRF-093-1(14))
LYING IN SECTIONS 9, 21, 28, TOWNSHIP 2 SOUTH, RANGE 70 WEST,
AND SECTIONS 16, 21, 28, TOWNSHIP 3 SOUTH, RANGE 70 WEST,
OF THE 6TH PRINCIPAL MERIDIAN
COUNTY OF JEFFERSON, STATE OF COLORADO

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

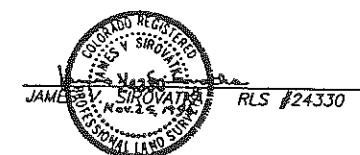
REVISIONS		
11/25/94	REVISE NOTE NO. 6	SHH

GENERAL NOTES:

- THIS CONTROL SURVEY IS FOR THE USE OF THE COLORADO DEPARTMENT OF TRANSPORTATION. THIS SURVEY IS NOT A COMPLETE BOUNDARY SURVEY. THE RECTIFICATION OF THE PHYSICAL EVIDENCE WITH THE RECORDED DOCUMENTS IS TO BE PERFORMED BY OTHERS.
- NO GUARANTEE AS TO THE ACCURACY OF THE INFORMATION CONTAINED ON THIS DIAGRAM IS EITHER STATED OR IMPLIED UNLESS THIS COPY BEARS AN ORIGINAL SIGNATURE OF THE REGISTERED LAND SURVEYOR HEREON NAMED.
- NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVERED SUCH DEFECT. IN NO EVENT, MAY ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.
- ALL COORDINATES LISTED ARE ASSUMED PROJECT SPECIFIC COORDINATES ONLY. THE GEODETIC AND STATE PLANE COORDINATES LISTED HEREON ARE SHOWN, ALONG WITH ANY CONVERSION FACTORS, ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- GPS FIELD WORK WAS PERFORMED BY JFSA FIELD CREWS BETWEEN JUNE 08, 1993 AND JUNE 10, 1993. STATE PLANE VALUES LISTED ON THE PRIMARY CONTROL WAS DETERMINED BY STATIC GPS OBSERVATIONS CALCULATED AND CHECKED FOR ACCURACY BY ROBERT BEIN, WILLIAM FROST & ASSOCIATES, FOR INCORPORATION INTO THE CDOT'S DENVER METRO AREA GPS GEODETIC CONTROL SURVEY NETWORK. THE FAST-STATIC GPS DATA WAS REDUCED BY JFSA, BASED ON THE VALUES PROVIDED BY R.B.F. & ASSOC.
- PRIMARY SURVEY CONTROL PRECISION (GPS STATIC METHODS) ARE WITHIN THE REQUIREMENTS SET FOR FEDERAL GEODETIC ACCURACY GROUP C, FIRST ORDER STANDARDS AS SET FORTH BY THE FEDERAL GEODETIC CONTROL COMMITTEE (1989). SECONDARY SURVEY CONTROL PRECISION (FAST STATIC GPS AND CONVENTIONAL METHODS) COMPUTED TO EXCEED COLORADO DEPARTMENT OF TRANSPORTATION MINIMUM HORIZONTAL CONTROL TOLERANCE FOR TYPE A SURVEY (± 0.10 FEET AT 95% CERTAINTY).
- CONVERSION OF STATE PLANE COORDINATES TO PROJECT SPECIFIC DATUM PLANE COORDINATES WAS MADE USING 1.0002702855 AS AN AVERAGED RECIPROCAL COMBINED FACTOR.
- ELEVATIONS ARE BASED ON NGS BM H408 (ELEV. 6173.957 FT.), NGS BM J408 (ELEV. 5928.797 FT.), AND NGS BM K408 (ELEV. 5896.022 FT.).
- TOPOGRAPHIC AND NATURAL FEATURES SHOWN ON THIS DOCUMENT ARE FOR ORIENTATION PURPOSES ONLY.
- MONUMENT RECORDS HAVE BEEN FILED PER COLORADO REVISED STATUTES 38-53-103.
- BASIS OF BEARINGS: BEARINGS ARE REFERENCED TO THE GRID BEARING BETWEEN POINTS 65 AND 66, AS DETERMINED BY GLOBAL POSITIONING SYSTEM METHODS. THE LINE BETWEEN THE TWO STANDARD CDOT TYPE 2 MONUMENTS BEARS N 08° 25' 15" E.

SURVEYOR'S CERTIFICATE

I, JAMES V. SIROVATKA, A REGISTERED LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THE SURVEY REPRESENTED BY THIS CONTROL DIAGRAM WAS COMPLETED UNDER MY DIRECT RESPONSIBILITY, SUPERVISION AND CHECKING IN COMPLIANCE WITH ARTICLE 51, TITLE 38, COLORADO REVISED STATUTES; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



CLERK AND RECORDER'S CERTIFICATE

THIS DOCUMENT WAS FILED FOR RECORD IN THE OFFICE OF THE JEFFERSON COUNTY CLERK AND RECORDER IN THE STATE OF COLORADO

AT _____ M. ON THE _____ DAY
OF _____, A.D. 19 ____

CLERK AND RECORDER

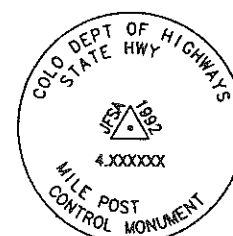
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DEPUTY

FILE NO. _____

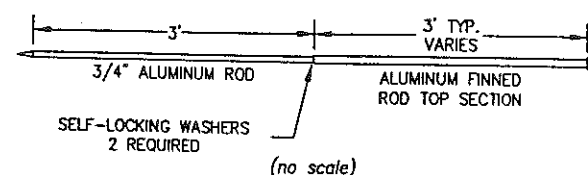
MAP NO. _____

RECEPTION NO. _____

QUANTITY OF MONUMENTS SET									
CAP TYPE	MONUMENT TYPE								
	1	1A	2	2A	3	3A	4	5	
REFERENCE									
RIGHT OF WAY									
CONTROL			12						
ALIQUOT CORNER						1			
WITNESS POST									



3 1/4" ALUMINUM CAP (TYP.)



CDOT TYPE 2 MONUMENT
TYPICAL DETAIL
(SET CONTROL MONUMENTS)

SUB ACCOUNT #88056 & #92321 & #92056
CONTROL.DWG 11-05-94

COMPUTER GENERATED DRAWING DO NOT ALTER MANUALLY



J.F. SATO AND ASSOCIATES
Consulting Engineers
Project Managers, Planners & Surveyors
5898 So. Rapp St. • Littleton, CO 80120 • (303) 787-1200

SH 93 - GOLDEN TO NORTH OF SH 72
NOTES AND CERTIFICATIONS

DATE	PROJECT NO.	DESIGNED BY	SHEET NO.	DRAWING NO.
2-3-94	JF92038	SHH	6	
		CHECKED BY	OF 6 SHEETS	

DEPARTMENT OF TRANSPORTATION - STATE OF COLORADO

SURVEY CONTROL DIAGRAM

IN SECTIONS 16 & 21, T.3S., R.70W., 6TH P.M.

PROJECT NO. CY 11-093-11

SH 93, NORTH OF GOLDEN BYPASS

County of Jefferson

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NUMBER
VIII	COLO.		
REVISIONS			

RIGHT OF WAY
REGION 6

GENERAL NOTES

- This survey is not a complete boundary survey of all adjoining owners 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 certificate shown hereon.
- All coordinates listed are project coordinates only and are based on modifying GPS values.
- Field survey control precision exceeds CDOT Type "A" accuracy.
- BASIS OF BEARINGS:
Bearings are based on the State plane Inversed Grid Bearings on points 13 to 35 and 34 to 66. As published on this same project number by J.F. Sato and Assoc.

TABULATION OF PRE-EXISTING CONTROL POINTS

PNT	NORTHING	EASTING	DESCRIPTION
13	85505.017	61059.795	3 1/4" ALUM. CDOH CAP STAMPED "GPS 4.049198 1992"
34	83492.586	61051.512	3 1/4" ALUM. CDOH CAP STAMPED "SH 93; CP 34; JFSA: 4.045198"
35	84430.646	61079.247	3 1/4" ALUM. CDOH CAP STAMPED "SH 93; CP 35; JFSA: 4.047197"
66	82431.732	60359.988	3 1/4" ALUM. CDOH CAP STAMPED "4.046206" IN PVC BOX W/ALUM. UD

TABULATION OF FOUND ALIQUOT CORNER EVIDENCE

PNT	NORTHING	EASTING	DESCRIPTION
1	83586.640	61170.065	3 1/4" ALUMINUM CAP "PLS 18099"; ACCEPTED AS CENTER NORTH
2	84900.379	59852.538	1/16 CORNER, SECTION 21
7	84902.520	60164.868	7/8" HEX-END STEEL ROD IN CONCRETE; ACCEPTED AS WEST 1/16TH CORNER, SECTIONS 16 & 21
8	83598.591	61144.696	#3 REBAR
15	84891.829	59844.598	2" X 6" BUFF-GRAY SANDSTONE 6" OUT OF GROUND NEXT TO FENCE

TABULATION OF PREVIOUSLY LOCATED CONTROL FOR CDOT

PNT	NORTHING	EASTING	DESCRIPTION
21	82264.746	61175.186	CENTER 1/4, SECTION 21 (MATHEMATICAL POSITION)
100	79685.008	61185.100	SOUTH 1/4 CORNER, SECTION 21
102	82287.385	63789.908	EAST 1/4 CORNER, SECTION 21
103	84892.174	58538.321	NORTH WEST CORNER, SECTION 21
104	84908.624	61165.026	NORTH 1/4 CORNER, SECTION 21
105	84924.623	63772.979	NORTH EAST CORNER, SECTION 21
121	82262.094	58547.540	WEST 1/4 CORNER, SECTION 21

CLERK AND RECORDER'S CERTIFICATE

THIS DOCUMENT WAS FILED FOR RECORD IN THE OFFICE OF THE JEFFERSON COUNTY CLERK AND RECORDER IN THE STATE OF COLORADO

AT _____ M. ON THE _____ DAY

OF _____, A.D. 19 ____

CLERK AND RECORDER

BY: DEPUTY

FILE NO.

MAP NO.

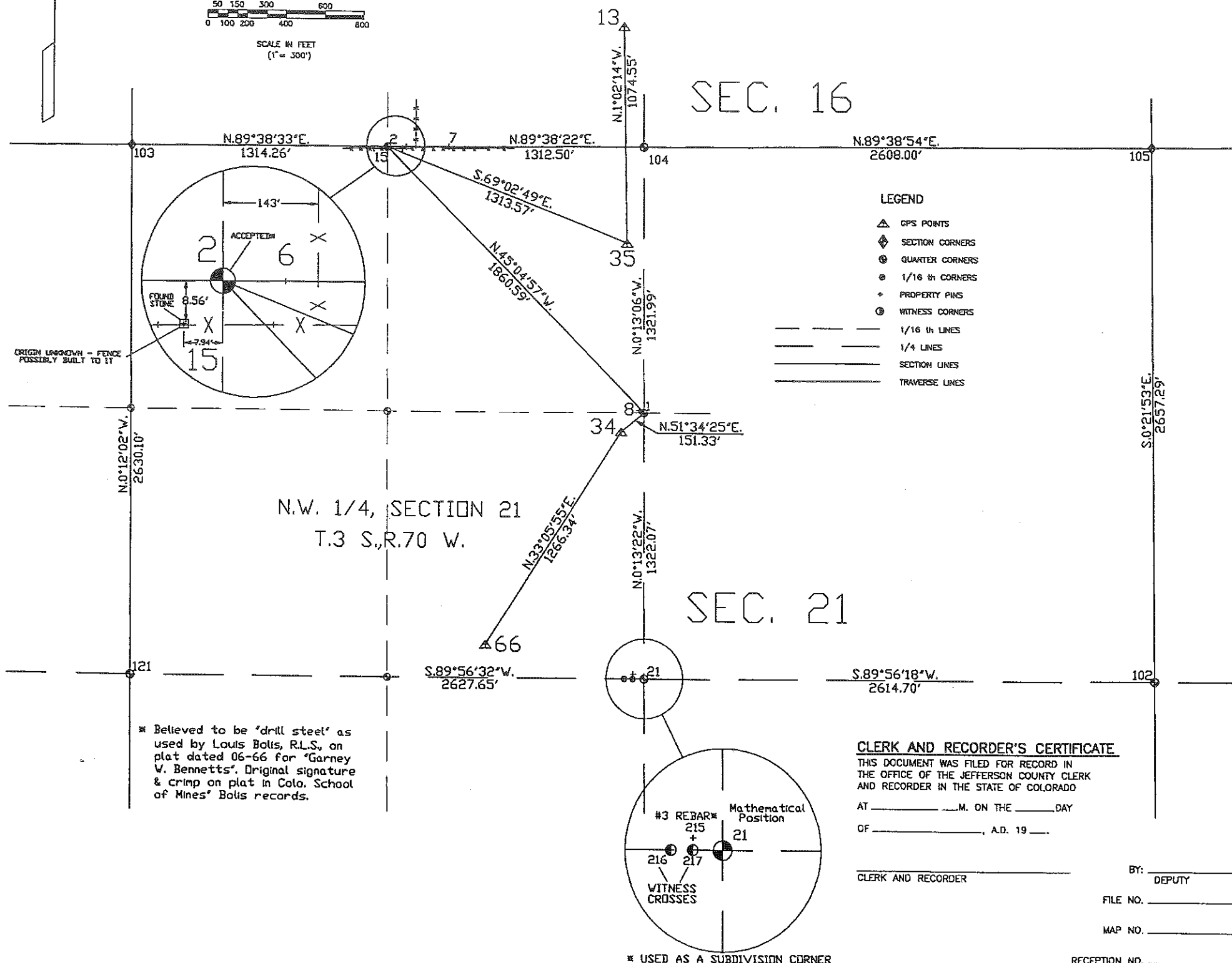
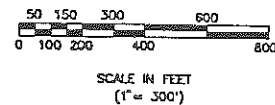
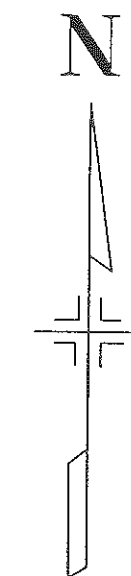
RECEPTION NO.

SURVEYOR CERTIFICATE (FIELD)

Control Survey and Monumentation was done under my supervision and checking.

NAME _____ P.L.S. NO. _____

DATE _____



CONTROL AND MONUMENTATION SHEET
CY 11-0093-11 UNIT 1

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
VIII	COLORADO	CY 11-0093-11 UNIT 1	36	
REVISIONS				
7-14-95	Rev. Pnts. 164-184, 194, 195	Del. Pnts.	-	
	162, 163, 186-189, 192, 193.		RG	

RIGHT OF WAY
SH 93
North of Golden Bypass

TABULATION OF R.O.W. MONUMENTS
TO BE SET (TYPE 1)

PNT	NORTHING	EASTING	DESCRIPTION OF MONUMENTS
47	81827.768	60305.061	
150	79811.688	59827.763	
151	79957.711	59777.139	
152	80148.035	59736.707	
153	80292.862	59721.972	
154	80535.286	59706.595	
155	80727.382	59736.948	
156	80958.325	59807.125	
157	81075.182	59837.775	
158	81074.035	59865.716	
159	81083.450	59905.851	
160	81176.995	59937.155	
161	81250.572	59918.534	
162	81435.623	60032.490	
163	81474.077	60062.630	
164	81675.560	60208.900	
165	81559.312	60130.477	
166	81669.504	60216.857	
183	83290.371	60921.627	
184	83290.163	60879.186	
185	83156.146	60826.465	
186	83064.956	60785.374	
187	82934.845	60708.102	
188	82708.048	60602.615	
189	82623.478	60596.967	
190	82474.307	60540.916	
191	82219.430	60424.274	
192	82186.008	60383.322	

TABULATION OF R.O.W. MONUMENTS
TO BE SET (TYPE 1)

PNT	NORTHING	EASTING	DESCRIPTION OF MONUMENTS
193	82143.522	60359.358	
194	81947.056	60258.568	
195	81669.874	60051.256	
196	81479.344	59916.779	
197	81470.876	59828.176	
198	81536.442	59633.687	
199	81449.859	59609.125	
200	81379.482	59802.250	
201	81295.094	59806.589	
203	81263.641	59789.219	
204	81144.970	59731.198	
205	81191.467	59713.861	
206	81229.444	59726.554	

TABULATION OF ALIQUOT CORNERS TO BE STRADDLED
AND RESET AS TYPE 3A MONUMENTS

PNT	NORTHING	EASTING	DESCRIPTION OF MONUMENTS
21*	82264.746	61175.186	
103	84892.174	58538.321	

* SET SECTION CORNER OR WITNESS CORNER

GENERAL NOTES

1. This Right of Way plan is not a complete boundary survey of all adjoining owners 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. No Warranty is implied or expressed unless this sheet bears the original signature and seal of preparer.
4. All cordinates listed are project coordinates only and are based in U.S. survey feet.
5. Right of Way boundaries are based off of Aliquot corners and found boundry evidence as determined by field survey (see sheets 3-3F).
6. BASIS OF BEARING: Bearings are referenced to the grid bearing between points 65 and 66 as determined by Global Positioning System method. The line between the two standard CDOT type 2 monuments bears N. 08° 25' 15" E. as described and published by J.F. Sato & Assoc. on sheet 3E of C.D.O.T. Project CY 11-0093-11 UNIT 1.
7. The coordinate base and Aliquot corners are based off of the Control Survey Diagram as published by J.F. Sato & Assoc. on sheets 3-3E of C.D.O.T. Project CY 11-0093-11 UNIT 1.

QUANTITY OF MONUMENTS TO BE SET

CAP TYPE	MONUMENT TYPE							
	1	1A	2	2A	3	3A	4	5
REFERENCE								
RIGHT OF WAY	32							
CONTROL								
ALIQUOT CORNER						2		
WITNESS POST								

SURVEYOR CERTIFICATE (OFFICE)

Right of Way Plans and Legal Descriptions were Prepared under my supervision and checking.

NAME _____ P.L.S. NO. _____

DATE _____

SURVEYOR CERTIFICATE (FIELD)

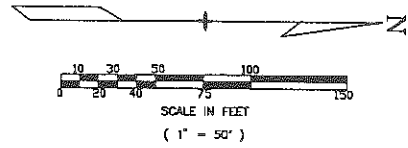
Right of Way Monumentation was done under my supervision and checking.

NAME _____ P.L.S. NO. _____

DATE _____

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NUMBER
VIII	COLO.	CY 11-0093-11 UNIT 1	4
REVISIONS			
05/18/95	DESIGN CHANGES		R6
07/14/95	REV. 2A		R5

RIGHT OF WAY
SH 93
 North of Golden Bypass



SW 1/4 SW 1/4 Sec. 21
 T. 3 S., R. 70 W.

NW 1/4 SW 1/4 Sec. 21
 T. 3 S., R. 70 W.

NE 1/4 SW 1/4 Sec. 21
 T. 3 S., R. 70 W.

END R.O.W. STA. 399+57.18
 PROJ. CY 11-0093-11 UNIT 1

END CONST. STA. 400+86.00
 PROJ. CY 11-0093-11 UNIT 1

LEGEND

- GPS POINTS
- QUARTER CORNERS
- 1/16 th CORNERS
- CONTROL POINTS
- 1/16 th LINES
- 1/4 LINES
- SECTION LINES
- COMPUTER #
- ALIQUOT CORNERS POINT #
- PROPERTY PINS

SE 1/4 SW 1/4 Sec. 21
 T. 3 S., R. 70 W.

PARCEL	OWNER
2	2A REV. L.H. KILGROE CONST. CO., a general partnership
4	JAMES A. KILGROE

1314.14' to Sec. Cor.
 N88°40'29"E.
 Section Line
 28
 N88°40'43"E.
 1314.54' to S1/4 Cor.

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NUMBER
VIII	COLO.	CY 11-0093-11 UNIT 1	6
REVISIONS			
05/18/95	DESIGN CHANGES		R5
07/14/95	REV. 2B; ADD TE-2B, SE-2B		R6

RIGHT OF WAY
SH 93
 North of Golden Bypass

LEGEND

- GPS POINTS
- QUARTER CORNERS
- 1/16 th CORNERS
- CONTROL POINTS
- 1/16 th LINES
- 1/4 LINES
- SECTION LINES
- COMPUTER #
- ALIQUOT CORNERS POINT #
- PROPERTY PINS

CONSTRUCTION BEYOND
 PROPOSED ROW BY OTHERS

SE 1/4 NW 1/4 Sec. 21
 T. 3 S., R. 70 W.

SE 1/4 NW 1/4 Sec. 21
 T. 3 S., R. 70 W.

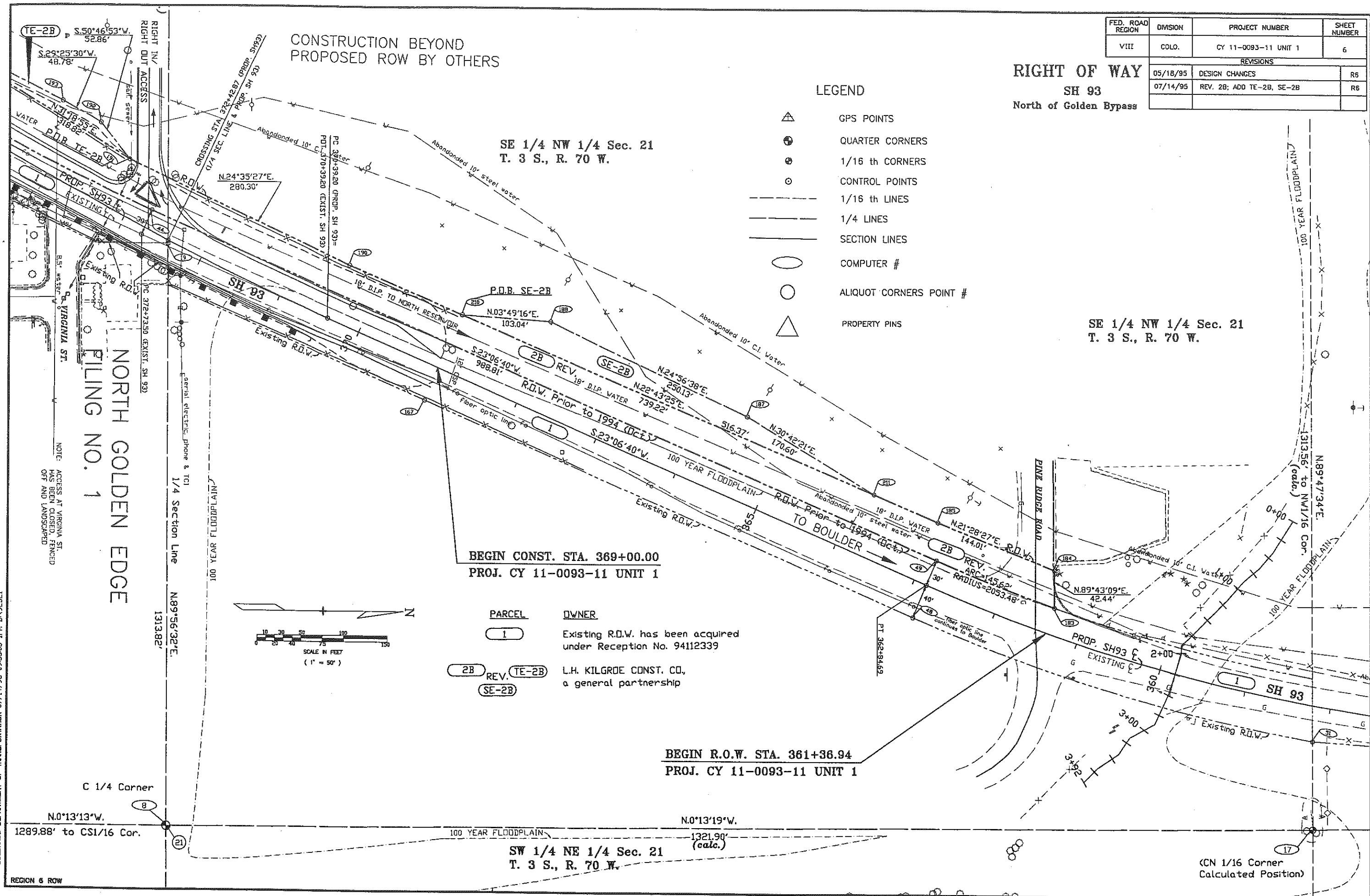
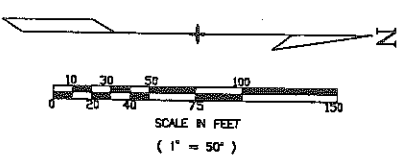
BEGIN CONST. STA. 369+00.00
 PROJ. CY 11-0093-11 UNIT 1

BEGIN R.O.W. STA. 361+36.94
 PROJ. CY 11-0093-11 UNIT 1

PARCEL **OWNER**

1 Existing R.O.W. has been acquired
 under Reception No. 94112339

2B REV. **TE-2B** L.H. KILGROE CONST. CO.,
SE-2B a general partnership



COLORADO DEPARTMENT OF TRANSPORTATION 07/14/95 09:35:03 JPM DV92321

REGION 6 ROW