



Sheet Revisions

Date	Description	Initials
6/30/08	Revised Sheets (RW) 2.01,5.01,5.02,6.01	CGG
5/27/09	Revised Sheets (RW) 2.02,4.01,5.03,5.04,6.01	CGG
5/9/11	Revised Sheets (RW) 1.01,2.01,2.02,2.03,4.01,5.01,5.02,5.03,6.01,6.02	CGG

Sheet Revisions

Date	Description	Initials
10/19/11	Changed PE-100 Remarks	RBE
01/25/12	PE-100 Change to 100A (Fee) (RW) 1.01,2.01,4.01,5.03,6.01,6.02	RBE
10/08/12	Revised Sheets (RW) 1.01,4.01,5.01	DDH

Sheet Revisions

Date	Description	Initials

Prepared By:

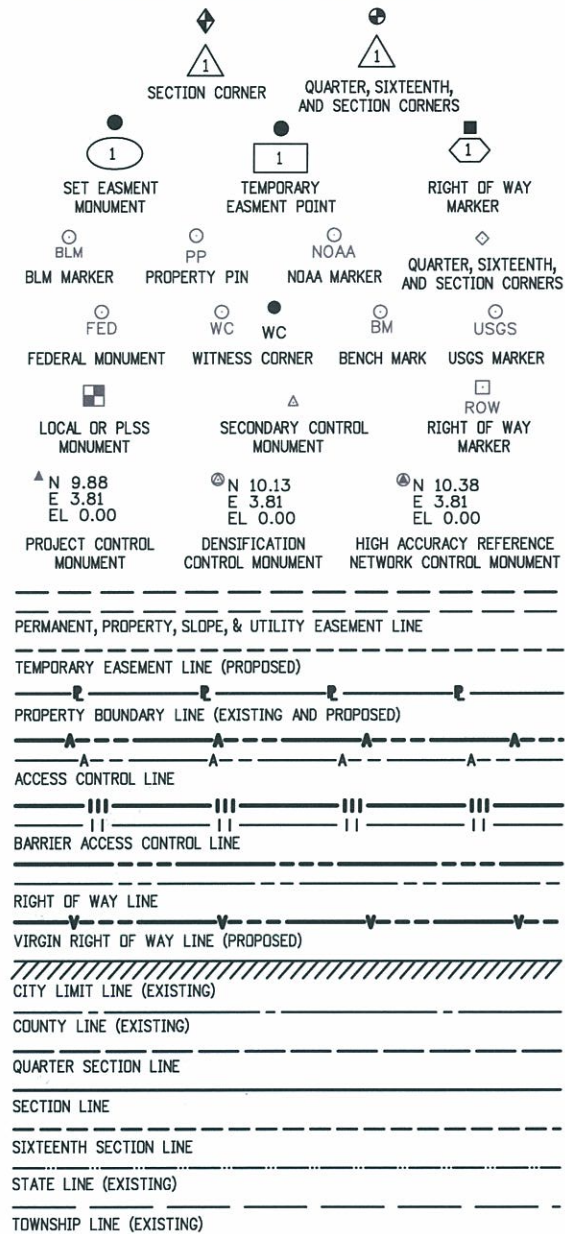


URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

Title Sheet		
Project Number:	NH 0852-086 Phase V	
Project Number:	NH 0852-095 (Const.)/ Project Code: 14976	
Project Location:	SH 85, Cook Ranch to Louviers	
Project Code:	Last Mod. Date	Sheet No.
13429	10-08-2012	1 of 1
	Subset Sheets	Sheet No.
	1 of 1	RW 1.01

STANDARD SYMBOLS



DEPARTMENT OF TRANSPORTATION

STATE OF COLORADO

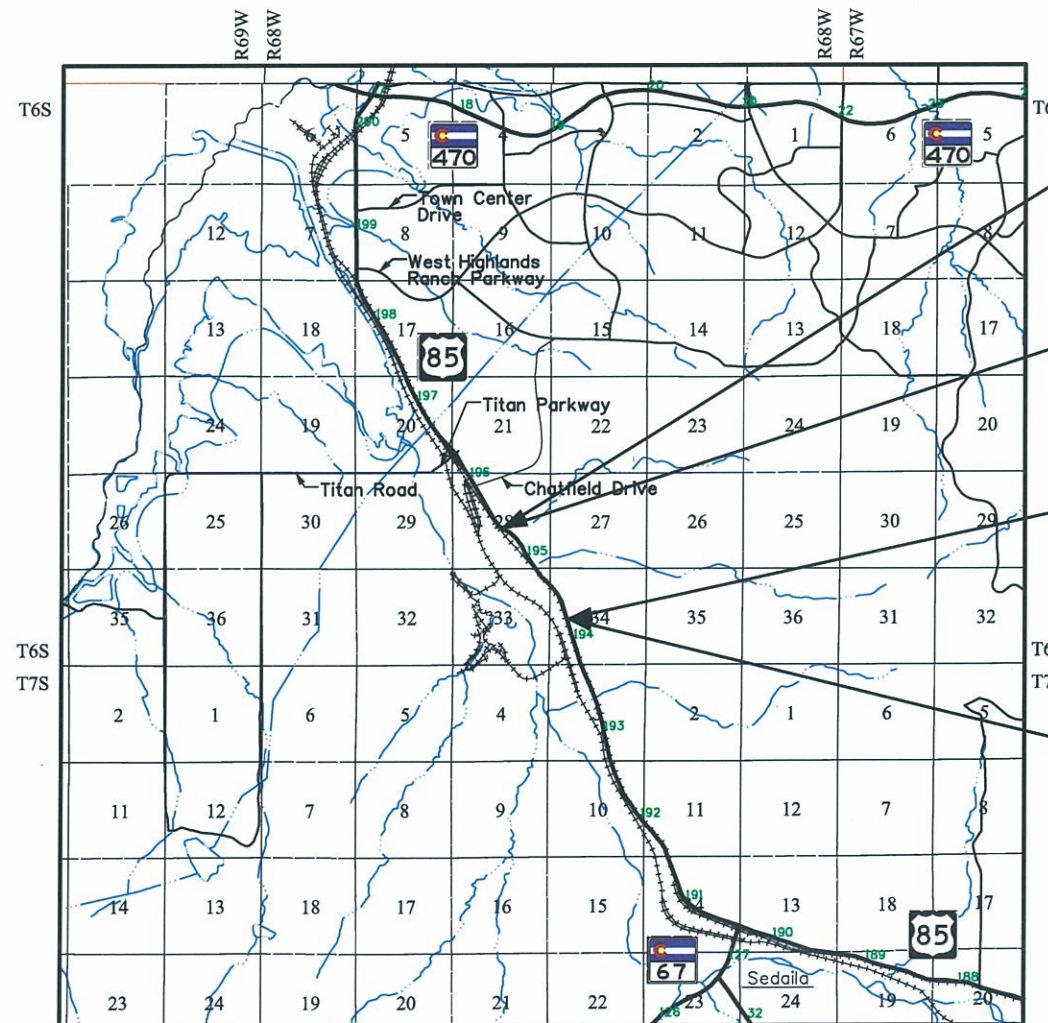
RIGHT OF WAY PLANS OF PROPOSED
FEDERAL AID PROJECT NO. NH 0852-086 Phase V
STATE HIGHWAY NO. 85
DOUGLAS COUNTY
RIGHT OF WAY

SHEET NO. INDEX OF SHEETS

RW 1.01	(1) Title Sheet
RW 2.01-RW 2.03	(3) Tabulation of Properties
RW 3.01-RW 3.06	(6) Control Diagram
RW 4.01-RW 4.07	(7) Monumentation Sheets
RW 5.01-RW 5.05	(5) Plan Sheets
RW 6.01-RW 6.02	(2) Ownership Sheets
M-100-1	(3) Standard Symbols
M-629-1	(2) Survey Monuments
	(29) Total Sheets

SCALES OF ORIGINAL 11x17 DRAWINGS

PLAN SHEETS 1"=100'
OWNERSHIP MAP 1"=400'
R.O.W. LENGTH OF PROJECT = 1.1 Miles
Const. LENGTH OF PROJECT = 1.2 Miles

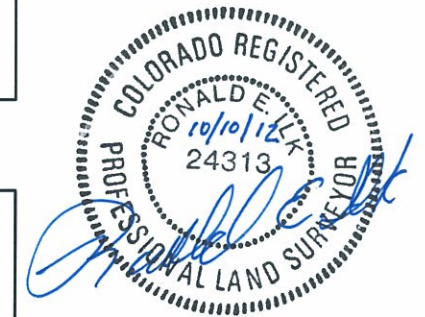


Beginning of Right of Way
Project: NH 0852-086 Phase V
Project Code: 13429
Station: 272+08.1
M.P.: 195.4

Beginning of Construction
Project: NH 0852-096
Project Code: 15024
M.P.: 195.5

End of Construction
Project: NH 0852-096
Project Code: 15024
M.P.: 194.3

End of Right of Way
Project: NH 0852-086 Phase V
Project Code: 13429
Station: 332+79.9
M.P.: 194.3

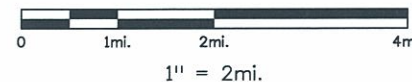


DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

AUTHORIZED: _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT LOCATION MAP

Approximate Scale



BASIS OF BEARINGS

BASIS OF BEARINGS: Bearings used in the calculations of coordinates are based on a grid bearing of N62°52'04"W from SH-85 CM-MP 195.25 and SH-85 CM-MP 195.451. Both monuments are CDOT Type II, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Positioning System (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN).

SH-85 CM-MP 195.451 N62°52'04"W SH-85 CM-MP 195.25

Colorado Department of Transportation



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Region 1

KAW

Sheet Revisions

Date	Description	Initials
6/30/08	Revised Parcels 101, 102, 103	CGG
5/9/11	Added Parcels 104 Rev, SE-104, TE-104, AC-104, 105 Rev, SE105, AC-105, PE-60, PE-100	CGG
10/19/11	Changed PE-100 Remarks	RBE

Sheet Revisions

Date	Description	Initials
1/25/12	PE-100 Change to 101A (Fee)	RBE
10/01/12	101 Rev., 102 Rev. & 103 Rev. Added Reception No.'s	DDH

Sheet Revisions

Date	Description	Initials

Prepared By:



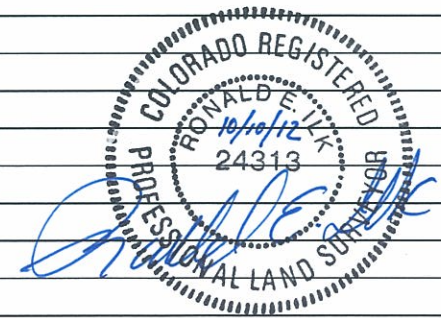
URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
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Right of Way Plans

Tabulation of Properties

Project Number: NH 0852-086 Phase V			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Cook Ranch to Louviers			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
13429	10-01-2012	RW 2.01 to RW 2.03	RW 2.01

Parcel No.	Owner Address	Parcel Address	Location Douglas County, Colorado	Area In Square Feet (Acres)					Book and Page No. And/Or Reception No.	Title Commitment No.	Remarks
				Area Of Parcel	Existing ROW	Net Area	Remainder Left	Remainder Right			
			T. 6 S., R. 68 W., 6th P.M.								
PE-60	Douglas County Board of Commissioners 100 3rd St. Castle Rock, CO 80104		Pt of SE 1/4 of Sec. 28	15,131 sf 0.347 (ac)		15,131 sf 0.347 (ac)			Rec# 2012070696	for re-alignment and construction of Highlands Gulch drainage channel.	
100	Public Service Company of Colorado P.O. Box 840, Suite 400 Denver, CO 80201 (800) 328-8226		Pt of SE 1/4 of Sec. 28 Lying Between SH 85 & BN&SF RR	91,680 sf 2.105 (ac)		91,680 sf 2.105 (ac)	0± sf 0.00± (ac)	0± sf 0.00± (ac)		NF00434 Total take	
100A	(Same as above)	(Same as above)	Pt of SE 1/4 of Sec. 28 Lying East of existing SH 85	10,341 sf 0.237 (ac)		10,341 sf 0.237 (ac)			Rec# 2012073769		
101 Rev	Billie V. Clark 5924 Airport Rd Sedalia, CO 80135 (800) 328-8226	9285 N US Highway 85 Littleton, CO	Tract in NW 1/4 of SE 1/4 of Sec. 28	133,196 sf 3.058 (ac)		133,196 sf 3.058 (ac)	0± sf 0.00± (ac)	0± sf 0.00± (ac)	Rec# 2009044093	NF00433 Total take	
102 Rev	Thomas L. Wolff and Barbara J. Wolff 2282 South Franklin Denver, CO 80210 (303) 778-0226		Tr NW1/4 SE1/4 of Sec. 28 Lying Between SH 85 & BN&SF RR	170,309 sf 3.910 (ac)		170,309 sf 3.910 (ac)	0± sf 0.00± (ac)	0± sf 0.00± (ac)	Rec# 2009053259	NF00432 Total take	
103 Rev	Edward D. Sawyer and Elaine M. Sawyer 9035 West Wagon Wheel Drive Littleton, CO 80125	9397 N US Highway 85 Littleton, CO	Tr in NW 1/4 SE1/4 of Sec. 28 Lying Between SH 85 & BN&SF RR	117,252 sf 2.692 (ac)		117,252 sf 2.692 (ac)	0± sf 0.00± (ac)	0± sf 0.00± (ac)	Rec# 2011011404	NF00431 Total take	



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Colorado Department of Transportation



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Region 1

KAW

Sheet Revisions

Date	Description	Initials
5/27/09	Revised PE-277	CGG
5/9/11	Added Parcels 104Rev,SE-104,TE-104,AC-104, 105Rev,SE-105,AC-105,PE-60,PE-100	CGG
10/01/12	104 Rev., SE-104, 105 Rev., SE-105 & 113 Added Reception No.'s	DDH

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials
mm/yy	XXXXXXXX	XXX

Prepared By:



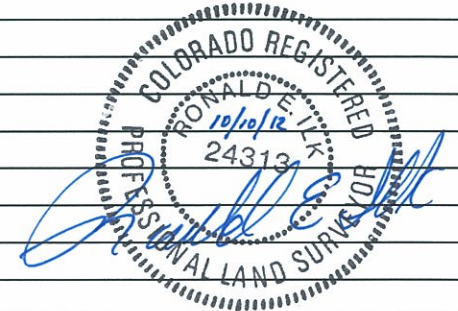
URS Corporation
8181 East Tullis Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

Tabulation of Properties

Project Number: NH 0852-086 Phase V			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Cook Ranch to Louviers			
Project Code: 13429	Last Mod. Date: 10-01-2012	Subset Sheets: RW 2.01 to RW 2.03	Sheet No.: RW 2.02

Parcel No.	Owner Address	Parcel Address	Location Douglas County, Colorado	Area In Square Feet (Acres)					Book and Page No. And/Or Reception No.	Title Commitment No.	Remarks
				Area Of Parcel	Existing ROW	Net Area	Remainder Left	Remainder Right			
			T. 6 S., R. 68 W., 6th P.M.								
104 Rev	CIG MC LLC, a Colorado limited liability company 1161 S. Perry St., Suite 110 Castle Rock, CO 80104-1981		Tract in NE 1/4 NE 1/4 SW 1/4 of Sec. 28	28,874 sf 0.663 (ac)		28,874 sf 0.663 (ac)			Rec# 2011081141		
SE-104	(Same as above)		(Same as above)	15,841 sf 0.364 (ac)		15,841 sf 0.364 (ac)			Rec# 2011081142	for a roadway slope	
TE-104	(Same as above)		(Same as above)	10,253 sf 0.235 (ac)		10,253 sf 0.235 (ac)				for driveway construction.	
AC-104 Rev	(Same as above)		(Same as above)								
105 Rev	CIG MC LLC, a Colorado limited liability company 1161 S. Perry St., Suite 110 Castle Rock, CO 80104-1981		Tract in NE 1/4 NE 1/4 SW 1/4 of Sec. 28	9,778 sf 0.224 (ac)		9,778 sf 0.224 (ac)			Rec# 2011081141	for a roadway slope	
SE-105	(Same as above)		(Same as above)	11,469 sf 0.263 (ac)		11,469 sf 0.263 (ac)			Rec# 2011081142		
AC-105 Rev	(Same as above)		(Same as above)								
113	Billie V. Clark 5924 Airport Road Sedalia, CO 80135 (303) 791-1988		Tr in NE1/4 NE1/4 of Sec 33	121,973 sf 2.800 (ac)		121,973 sf 2.800 (ac)	165,522± sf 3.80± (ac)		Rec# 2009044095	NF00435	
AC-113	(Same as above)		(Same as above)								



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Sheet Revisions

Date	Description	Initials

US Highway 85 MP 196.40 to 193.31
Located in:
Sections 27, 28, 33, 34
Township 6 South, Range 68 West
of the 6th Principal Meridian, County of Douglas
State of Colorado

Project Control Diagram

Title Sheet

Project Number: NH-0852-086			
Project Location: US 85-Titan Pkwy. to Louviers			
Project Location:			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429		RW 3.01 of RW 3.06	RW 3.01

SUPPLEMENTAL PROJECT CONTROL DIAGRAM

Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N62°52'04"W from US-85 CM-MP 195.25 and US-85 CM-MP 195.451. Both monuments are CDDOT Type II, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Positioning System (GPS) survey base on the Colorado High Accuracy Reference Network (CHARN).

Basis of Elevations: Project elevations are based on NOAA Bench Mark K 23 1929, PID: KK0203, a standard bench mark disk set on top of a concrete monument, with a NAVD elevation of 5984.83ft. K 23 is a first order benchmark.

Project Narrative: This Project Control Diagram was prepared to fill the gaps within the existing project control. It was my intent to only establish new monumentation and coordinates on the control points we set to fill the gaps. While performing the GPS survey we found some minor differences in horizontal and vertical positions reported by Mountain Surveying & Mapping. The remaining control points (noted as found) were previously established by Mountain Surveying & Mapping, Inc., and recorded in Douglas County on November 19, 2002 at LSP No. 3183.



Typical Control Monument Cap
Not to Scale

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83/(92) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates was 1.00030502381. The resulting project coordinates were truncated by 200,000m in the Northing and 400,000m in the Easting after converting from state plane coordinates to project coordinates. The CHARN is based on the NAD '83(92) datum.
Project Coordinates Northing = (State Plane Coordinate Northing * 1.00030502381 - 200,000) * (3937/1200).
Project Coordinates Easting = (State Plane Coordinate Easting * 1.00030502381 - 400,000) * (3937/1200).

NOTE: This control survey is for the use of the Colorado Department of Transportation personnel. The survey is not a complete boundary survey and does not subdivide land. 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 ways, property boundaries, and restrictions, as described in the instruments of record, were not included in this control survey.

NOTICE: According to Colorado State 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 hereon.

▲ CM-MP - Control Point Monuments set by CDDOT. They are CDDOT Type 2 monuments, a 3/4" dia. aluminum control monument cap (as shown) on a 3' x 3/4" dia. aluminum security rod on a 3' x 3/4" dia. smooth aluminum rod.

NOTE: Refer to the most current M-629-1 Survey Monuments of the Standard Plans, Colorado Department of Transportation, M & S Standards for survey monument descriptions. Refer to the most current M-100-1 Standard Symbols of the Standard Plans, found in the Colorado Department of Transportation M & S Standards for standard symbol definitions.

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 I and Type II monuments shall be set flush with the ground. Witness posts shall be installed 1 (one) foot from and facing all Type I and Type II monuments, or as directed by the Project Engineer.
- 3). Installation of Type III and Type III-A monuments shall be completed in the same day that installation is commenced. Under no circumstances shall holes in the roadway be left overnight.
- 4). When installing Type III-A monuments, the aluminum monument box shall be positively secured in the roadway surface. The monument box shall be caulked with asphalt caulking between the monument box and the edges of the roadway surface to provide a positive moisture barrier around the monument box.
- 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 (electronic data printouts may be submitted with approval from the Project Engineer) shall be submitted to the Project Engineer for review on a monthly basis.
- 7). It is ultimately the prime Contractor's responsibility to insure that these requirements, as well as any contained in the CDDOT specifications, project special provisions, and CDDOT Survey Manual are fulfilled under this contract.
- 8). The minimum staking intervals for each item are described on the plans or in the CDDOT 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.
- 9). Whenever the contract includes the setting of CDDOT Type II monuments, a Project Control Diagram, signed and sealed by the PLS in responsible charge, shall be submitted to the Engineer. A MicroStation drawing on CD shall accompany the submittal.

SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, David A. Stewart, a Professional Land Surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Project Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

David A. Stewart PLS 28664



Sheet Revisions

Date	Description	Initials

US Highway 85 MP 196.40 to 193.31
Located in:
Sections 27, 28, 33, 34
Township 6 South, Range 68 West
of the 6th Principal Meridian, County of Douglas
State of Colorado

Project Control Diagram
Plan Sheet

Project Number: NH-0852-086			
Project Location: US 85-Titan Pkwy. to Louviers			
Project Location:			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429		RW 3.02 of RW 3.06	RW 3.02

G E O D E T I C C O O R D I N A T E S U M M A R Y T A B L E (A D J U S T E D F I E L D D A T A)

POINT NAME	LATITUDE (N)	LONGITUDE (E)	SPCN (502) METERS	SPCE (502) METERS	ELLIP. (M)	MAPPING ANGLE	SCALE
US 85 CM -M P 193.31**	39° 28' 19.89742" N	104° 59' 20.52698" W	486852.321	958367.030	1723.221	0° 19' 20.13642"	1.000261856
US 85 CM -M P 193.50**	39° 28' 28.19870" N	104° 59' 26.41376" W	487107.529	958224.896	1722.001	0° 19' 16.42369"	1.000262117
US 85 CM -M P 193.70**	39° 28' 37.59400" N	104° 59' 29.92434" W	487396.794	958139.372	1718.499	0° 19' 14.20960"	1.000262415
US 85 CM -M P 193.81**	39° 28' 43.67723" N	104° 59' 32.80303" W	487584.007	958069.526	1716.327	0° 19' 12.39404"	1.000262609
US 85 CM -M P 194.01**	39° 28' 53.56888" N	104° 59' 37.19872" W	487888.463	957962.776	1713.220	0° 19' 09.62173"	1.000262926
US 85 CM -M P 194.14*	39° 29' 02.37832" N	104° 59' 41.80406" W	488159.520	957851.209	1707.260	0° 19' 06.71719"	1.000263210
US 85 CM -M P 194.25	39° 29' 13.09384" N	104° 59' 45.70787" W	488489.452	957756.088	1710.889	0° 19' 04.25510"	1.000263558
US 85 CM -M P 194.54	39° 29' 22.42550" N	104° 59' 51.59154" W	488776.447	957613.902	1710.326	0° 19' 00.54433"	1.000263864
US 85 CM -M P 194.70*	39° 29' 28.58113" N	104° 59' 57.83317" W	488965.454	957463.713	1712.850	0° 18' 56.60780"	1.000264067
US 85 CM -M P 194.90**	39° 29' 36.85336" N	105° 00' 07.26951" W	489219.319	957236.840	1711.349	0° 18' 50.65640"	1.000264340
US 85 CM -M P 195.10	39° 29' 48.49343" N	105° 00' 15.54610" W	489577.200	957037.125	1710.081	0° 18' 45.43644"	1.000264728
US 85 CM -M P 195.25*	39° 29' 54.02727" N	105° 00' 22.03397" W	489747.012	956881.187	1712.506	0° 18' 41.34460"	1.000264914
US 85 CM -M P 195.451	39° 29' 56.94520" N	105° 00' 29.28663" W	489836.056	956707.420	1708.328	0° 18' 36.77043"	1.000265012
US 85 CM -M P 195.65	39° 30' 01.70973" N	105° 00' 34.60329" W	489982.301	956579.603	1705.966	0° 18' 33.41726"	1.000265172
US 85 CM -M P 195.78	39° 30' 07.42034" N	105° 00' 38.98695" W	490157.844	956473.924	1703.404	0° 18' 30.65254"	1.000265366
US 85 CM -M P 195.85	39° 30' 12.98143" N	105° 00' 43.16141" W	490328.804	956373.272	1701.134	0° 18' 28.01975"	1.000265555
US 85 CM -M P 196.00*	39° 30' 21.31123" N	105° 00' 49.59702" W	490584.859	956218.150	1698.558	0° 18' 23.96088"	1.000265839
US 85 CM -M P 196.18	39° 30' 30.68073" N	105° 00' 55.87265" W	490873.001	956066.689	1697.400	0° 18' 20.00290"	1.000266161
US 85 CM -M P 196.40	39° 30' 36.95956" N	105° 01' 05.25055" W	491065.441	955841.638	1697.229	0° 18' 14.08836"	1.000266377
KK 23 CHARN*	39° 25' 41.15066" N	104° 54' 30.69573" W	481998.926	965326.062	1806.929	0° 22' 22.92996"	1.000257172

* Denotes monuments constrained horizontally for adjustment of the GPS data.

** Denotes monuments not included in the fast-static survey because they checked within CDOT tolerances.

PROJECT COORDINATE SUMMARY TABLE IN FEET (ADJUSTED FIELD DATA)

POINT NAME	NORTHING	EASTING	ELEV.	DESCRIPTION
US 85 CM-MP 193.31	941601.870	1832868.230	5707.73	FOUND CDOT TYPE II
US 85 CM-MP 193.50	942439.410	1832401.770	5703.73	FOUND CDOT TYPE II
US 85 CM-MP 193.70	943388.740	1832121.090	5692.28	FOUND CDOT TYPE II
US 85 CM-MP 193.81	944003.140	1831891.870	5685.16	FOUND CDOT TYPE II
US 85 CM-MP 194.01	945002.310	1831541.530	5674.85	FOUND CDOT TYPE II
US 85 CM-MP 194.14	945891.880	1831175.400	5655.39	FOUND CDOT TYPE II
US 85 CM-MP 194.25	946974.660	1830863.220	5667.34	SET CDOT TYPE II
US 85 CM-MP 194.54	947916.530	1830396.590	5665.49	FOUND CDOT TYPE II
US 85 CM-MP 194.70	948536.820	1829903.700	5673.72	FOUND CDOT TYPE II
US 85 CM-MP 194.90	949369.960	1829159.130	5668.76	FOUND CDOT TYPE II
US 85 CM-MP 195.10	950544.470	1828503.710	5664.67	FOUND CDOT TYPE II
US 85 CM-MP 195.25	951101.760	1827991.940	5672.52	FOUND CDOT TYPE II
US 85 CM-MP 195.451	951393.990	1827421.670	5658.79	SET CDOT TYPE II
US 85 CM-MP 195.65	951873.940	1827002.190	5650.98	FOUND CDOT TYPE II
US 85 CM-MP 195.78	952450.040	1826655.370	5642.59	SET CDOT TYPE II
US 85 CM-MP 195.85	953011.110	1826325.050	5635.13	FOUND CDOT TYPE II
US 85 CM-MP 196.00	953851.440	1825815.970	5626.69	FOUND CDOT TYPE II
US 85 CM-MP 196.18	954797.070	1825318.900	5622.90	SET CDOT TYPE II
US 85 CM-MP 196.40	955428.630	1824580.320	5622.29	FOUND CDOT TYPE II

NOTE- US 85 CM-MP 195.65 is bent to the north.
US 85 CM-MP 196.40 was set during the construction of
CDOT Proj. # STA 0852-082, Titan Pkwy. Interchange.



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Region 1 - David A. Stewart, PLS II

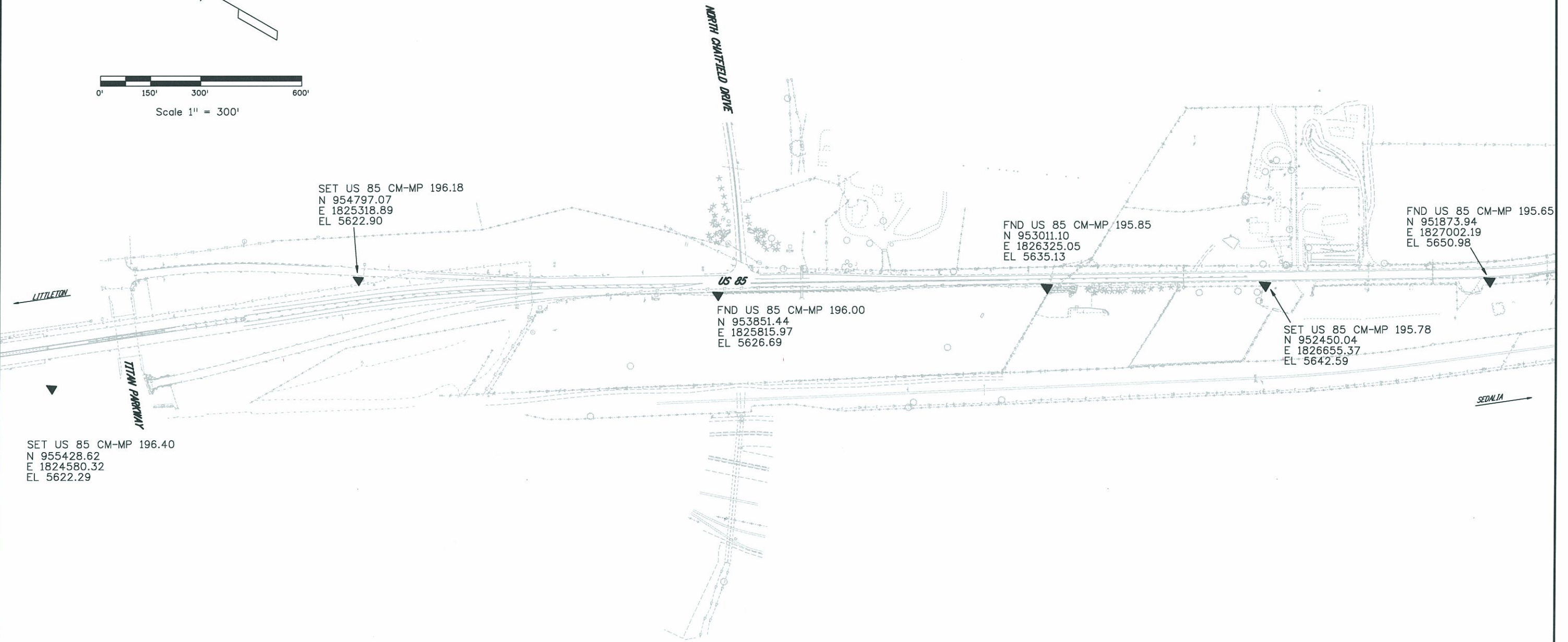
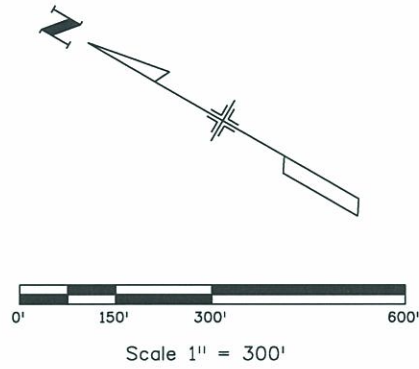
Sheet Revisions

Date	Description	Initials

US Highway 85 MP 196.40 to 193.31
Located in:
Sections 27, 28, 33, 34
Township 6 South, Range 68 West
of the 6th Principal Meridian, County of Douglas
State of Colorado

Project Control Diagram
Plan Sheet

Project Number: NH-0852-086			
Project Location: US 85-Titan Pkwy. to Louviers			
Project Location:			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429		RW 3.03 of RW 3.06	RW 3.03



SET US 85 CM-MP 196.18
N 954797.07
E 1825318.89
EL 5622.90

FND US 85 CM-MP 195.85
N 953011.10
E 1826325.05
EL 5635.13

FND US 85 CM-MP 195.65
N 951873.94
E 1827002.19
EL 5650.98

FND US 85 CM-MP 196.00
N 953851.44
E 1825815.97
EL 5626.69

SET US 85 CM-MP 195.78
N 952450.04
E 1826655.37
EL 5642.59

SET US 85 CM-MP 196.40
N 955428.62
E 1824580.32
EL 5622.29

Colorado Department of Transportation



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Aurora, CO 80011
Phone: 303-365-7409 FAX: 303-365-7350

Region 1 - David A. Stewart

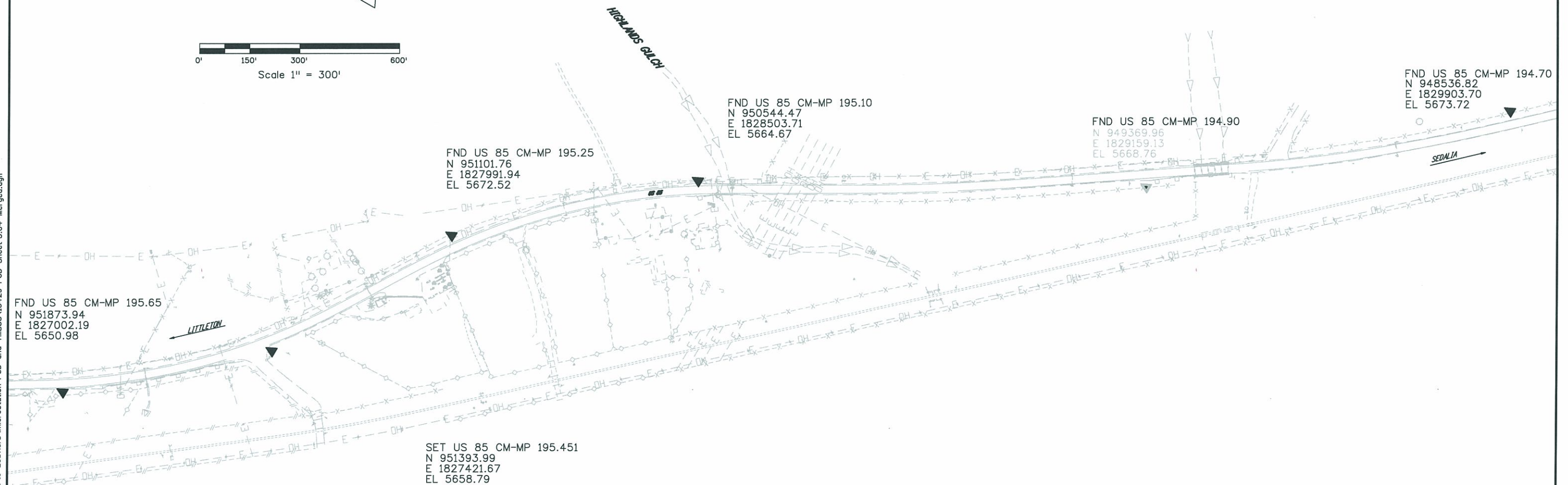
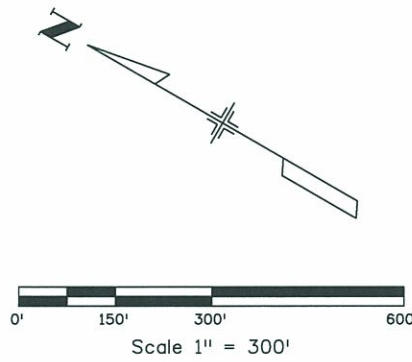
Sheet Revisions

Date	Description	Initials

US Highway 85 MP 196.40 to 193.31
Located in:
Sections 20, 21, 28, 33, 34
Township 6 South, Range 68 West
of the 6th Principal Meridian, County of Douglas
State of Colorado

Project Control Diagram
Plan Sheet

Project Number: NH-0852-086			
Project Location: US 85-Titan Pkwy. to Louviers			
Project Location:			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429		RW 3.04 of RW 3.06	RW 3.04



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Colorado Department of Transportation



18500 East Colfax Avenue
Aurora, CO 80011
Phone: 303-365-7409 FAX: 303-365-7350

Region 1 - David A. Stewart

Sheet Revisions

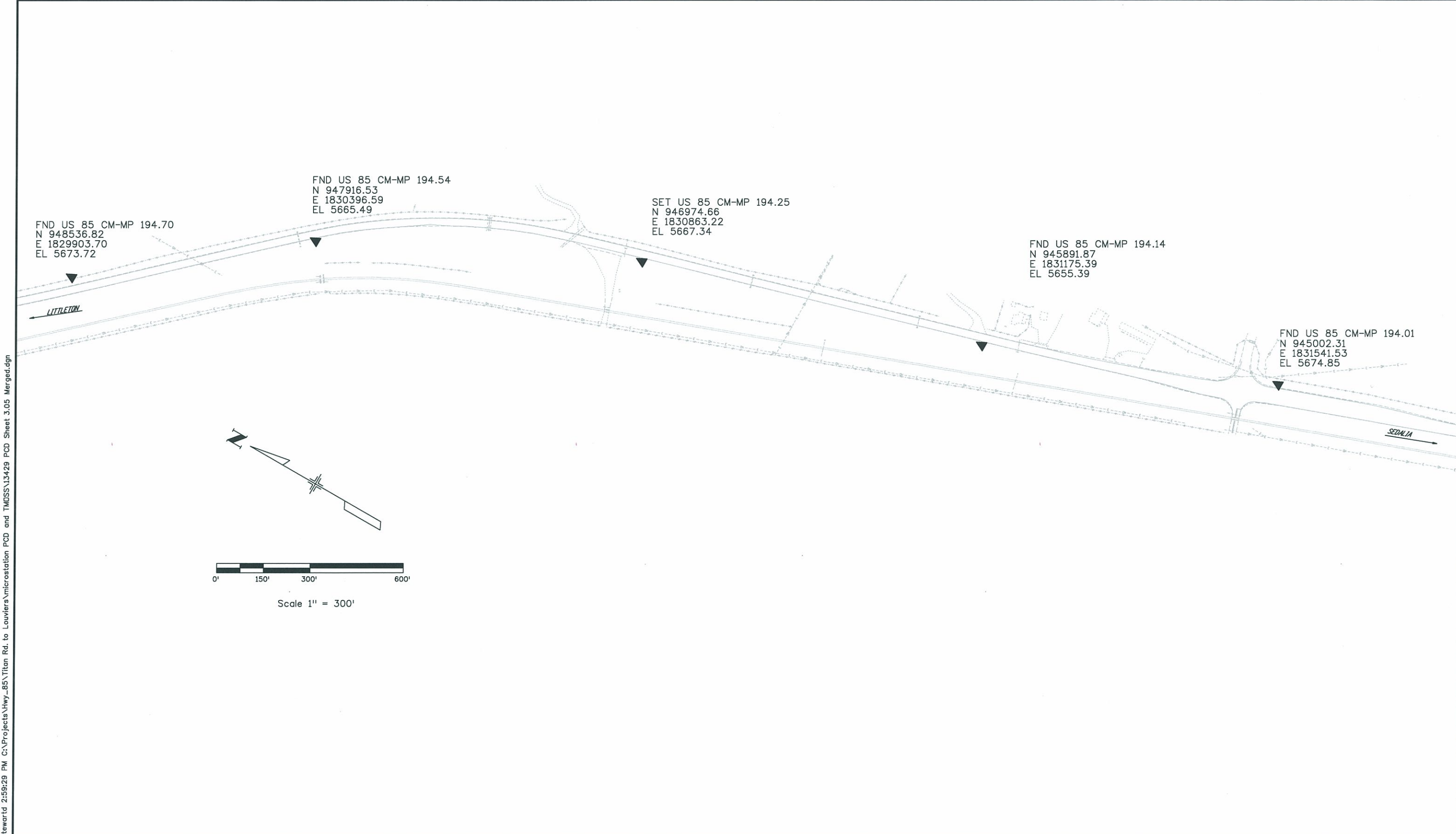
Date	Description	Initials

US Highway 85 MP 196.40 to 193.31
Located in:
Sections 20, 21, 28, 33, 34
Township 6 South, Range 68 West
of the 6th Principal Meridian, County of Douglas
State of Colorado

Project Control Diagram

Plan Sheet

Project Number: NH-0852-086			
Project Location: US 85-Titan Pkwy. to Louviers			
Project Location:			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429		RW 3.05 of RW 3.06	RW 3.05



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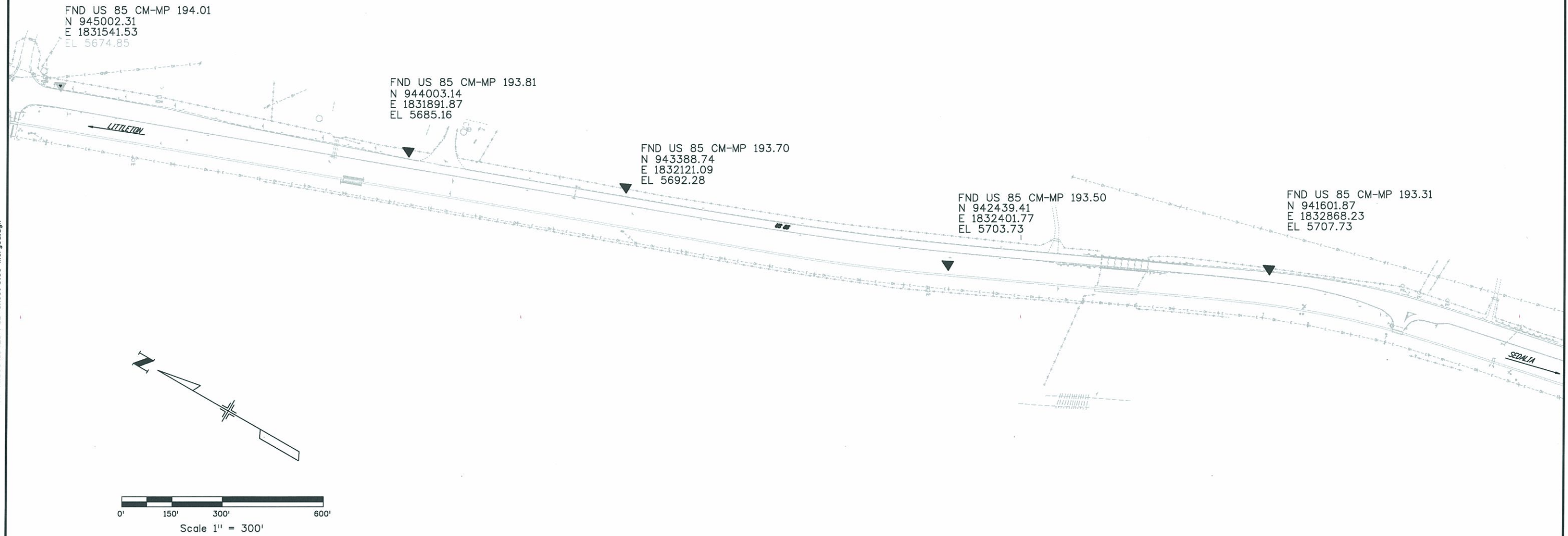
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Date	Description	Initials

US Highway 85 MP 196.40 to 193.31
Located in:
Sections 20, 21, 28, 33, 34
Township 6 South, Range 68 West
of the 6th Principal Meridian, County of Douglas
State of Colorado

Project Control Diagram
Plan Sheet

Project Number: NH-0852-086			
Project Location: US 85-Titan Pkwy. to Louviers			
Project Location:			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429		RW 3.06 of RW 3.06	RW 3.06





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Phone: 303-365-7410 FAX: 303-365-7350

Region 1

KAW

Sheet Revisions		
Date	Description	Initials
5/27/09	Deleted PE pnts 350,351	CGG
5/9/11	Added ROW pnts 350,351 TE pnts 400,401,402,403,404,405	CGG
6/20/11	Added ROW pnts 561,562,563	CGG

Sheet Revisions		
Date	Description	Initials
1/25/12	PE pts 355 & 356 to ROW pts; Added 367 Updated Quantities to be set	RBE
10/8/12	To Be Set pts 517 & 521 to found ROW pts	DDH

Sheet Revisions		
Date	Description	Initials

Prepared By:



URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans Monumentation Sheet			
Project Number: NH 0852-086 Phase V			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Cook Ranch to Louviers			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429	10-08-2012	RW 4.01 to RW 4.07	RW 4.01

GENERAL NOTES:

- This Right-of-Way plan is not a complete boundary survey of all the adjoining property owners and is prepared for the Transportation Department purposes ONLY.
- Title Commitments / Policies supplied were supplied by Front Range Title of Downtown Denver, LLC. (Issued by Stewart Title Guaranty Company)
- 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 certification shown hereon.
- All R.O.W. Markers set from survey control points.
- All centerline and offset stationing is theoretical only and may not represent the centerline as constructed in the field.
- All coordinates listed are PROJECT COORDINATES.
- BASIS OF BEARINGS: Bearings used in the calculations of coordinates are based on a grid bearing of N62°52'04"W from SH-85 CM-MP 195.25 and SH-85 CM-MP 195.451. Both monuments are CDOT Type II, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Positioning System (GPS) survey based on the Colorado High Accuracy Reference Network (CHARN).
- All found monument information was obtained during a survey performed by URS in 2004 and described in right of way plan set on file with the Douglas County Clerk and Recorder, recorded under Land Survey Plat Number 3975.

TABULATION OF ALIQUOT CORNERS

Point No.	Northing	Easting	Description
150	941076.30	1830114.93	See Sheet RW 4.05
151	943807.77	1832804.54	See Sheet RW 4.05
152	943799.03	1831491.24	See Sheet RW 4.05
155	943825.86	1834129.32	See Sheet RW 4.05
156	943790.04	1830177.88	See Sheet RW 4.05
157	949090.46	1830178.08	See Sheet RW 4.05
163	951703.14	1830159.05	See Sheet RW 4.05
164	951682.86	1827510.43	See Sheet RW 4.05
168	949052.01	1827528.24	See Sheet RW 4.05
169	950367.35	1827519.34	See Sheet RW 4.05
170	949109.21	1832809.52	See Sheet RW 4.05
171	946475.45	1834130.31	See Sheet RW 4.05
172	946449.46	1830165.26	See Sheet RW 4.05
173	954328.29	1826168.47	See Sheet RW 4.05
174	953003.03	1827501.08	See Sheet RW 4.05
175	952997.76	1824837.59	See Sheet RW 4.05
176	951672.51	1826170.20	See Sheet RW 4.05
177	950396.80	1830168.57	See Sheet RW 4.05
178	953000.40	1826169.33	See Sheet RW 4.05
179	946458.11	1831483.57	See Sheet RW 4.05
1028	954333.36	1824845.21	See Sheet RW 4.05
3233	941186.66	1835403.16	See Sheet RW 4.05
3234	941180.74	1834079.16	See Sheet RW 4.05
10030	954323.21	1827491.72	See Sheet RW 4.06
10031	951662.16	1824829.97	See Sheet RW 4.06

TABULATION OF R.O.W. MARKERS TO BE SET

Point No.	Northing	Easting	Type	Station	Offset
355	950294.75	1828662.45	1	287+27.45	-224.61'
356	950211.44	1828838.19	1	289+04.59	-304.91'
367	950172.22	1828852.51	1	289+43.77	-290.49'
527	950907.67	1827565.02	1	275+50.55	216.91'
532	949252.84	1829091.69	1	298+00.00	121.03'
533	949052.78	1829648.94	1	303+12.76	-175.00'
534	948992.05	1829634.85	1	303+50.00	-125.00'
535	948877.57	1829731.77	1	305+00.00	-125.00'
536	948810.48	1829834.43	1	306+17.54	-160.00'
539	947453.68	1830564.33	1	321+62.55	145.31'
541	946454.49	1830931.94	1	332+54.92	107.35'
561	951679.74	1827106.16	1	266+67.17	69.44'
562	951136.94	1827514.13	1	273+42.69	107.60'
563	951679.98	1827137.28	1	250+61.20	55.89'
567	948288.39	1829981.45	1	311+07.57	78.83'
568	948296.86	1829990.64	1	311+07.62	66.33'
589	948110.14	1830162.90	1	313+61.67	67.34'

TABULATION OF FOUND ROW MARKERS & PROPERTY PINS

Point No.	Northing	Easting	Description
517	951835.09	1827022.80	Fnd 1 1/2" Alum. Cap stamped ALS PLS14108
521	950962.25	1827515.31	Fnd 3 1/4" Alum. Cap CDOT PLS24313 #517
3103	950380.24	1828610.10	See Sheet RW4.07
3104	950171.41	1828733.13	See Sheet RW4.07
92633	951388.19	1827538.19	See Sheet RW4.07
a1133	951256.01	1827749.76	See Sheet RW4.07

TABULATION OF PERMANENT EASEMENT MARKERS TO BE SET

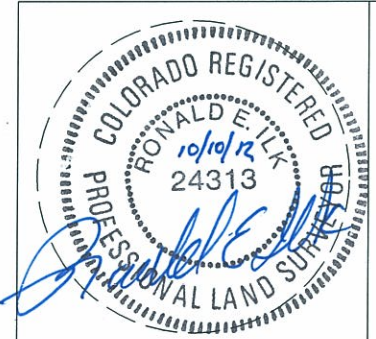
Point No.	Northing	Easting	Type	Station	Offset
352	948101.66	1830153.72	6	313+61.62	79.84'
353	947783.09	1830392.59	6	317+68.18	113.40'
354	947764.53	1830418.09	6	318+00.00	104.34'
357	950101.38	1828878.35	6	290+14.54	-264.45'
379	949965.75	1828853.36	6	291+01.90	-157.73'
380	951679.37	1827058.89	6	266+39.64	106.95'
381	951073.12	1827514.56	6	273+91.67	148.50'

QUANTITY OF MONUMENTS TO BE SET

CAP TYPE	MONUMENT TYPE									
	1	1A	2	2A	3	3A	4	5	5(S)	6
REFERENCE										
ROW	17									
CONTROL										
ALIQUOT CORNER										
PERMANENT EASEMENT										7
PROJECT POINTS										
WITNESS POST (REQUIRED)	17									

TABULATION OF TEMPORARY EASEMENT POINTS TO BE STAKED

Point No.	Northing	Easting	Type	Station	Offset
400	951116.34	1827482.08	TE	273+37.71	145.37'
401	951116.05	1827439.19	TE	273+10.21	178.29'
402	951172.14	1827374.46	TE	272+25.57	191.45'
403	951153.12	1827351.26	TE	272+25.11	221.44'
404	951210.07	1827305.08	TE	271+51.80	219.89'
405	951263.31	1827371.61	TE	271+54.16	134.71'



SURVEYOR STATEMENT (ROW PLAN)

I, Ronald E. Ilk, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, research, calculations and evaluation of the survey evidence were performed and this Right-of-Way Plan was prepared under my responsible charge in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 24313 05/9/2011
Date



SURVEYOR STATEMENT (ROW MONUMENTS)

I, Ronald E. Ilk, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, adequate research, calculations and evaluation of survey evidence were performed and the Right-of-Way monuments depicted on this Right-of-Way Plan were set under my responsible charge in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 24313 05/9/2011
Date

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18500 East Colfax Avenue
Aurora, CO 80011
Phone: 303-365-7410 FAX: 303-365-7350

Region 1

KAW

Sheet Revisions		
Date	Description	Initials
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Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Prepared By:



URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

Right of Way Alignment Sheet

Project Number: NH 0852-086 Phase V			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Cook Ranch to Louviers			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429	04-02-2008	RW 4.01 to RW 4.07	RW 4.02

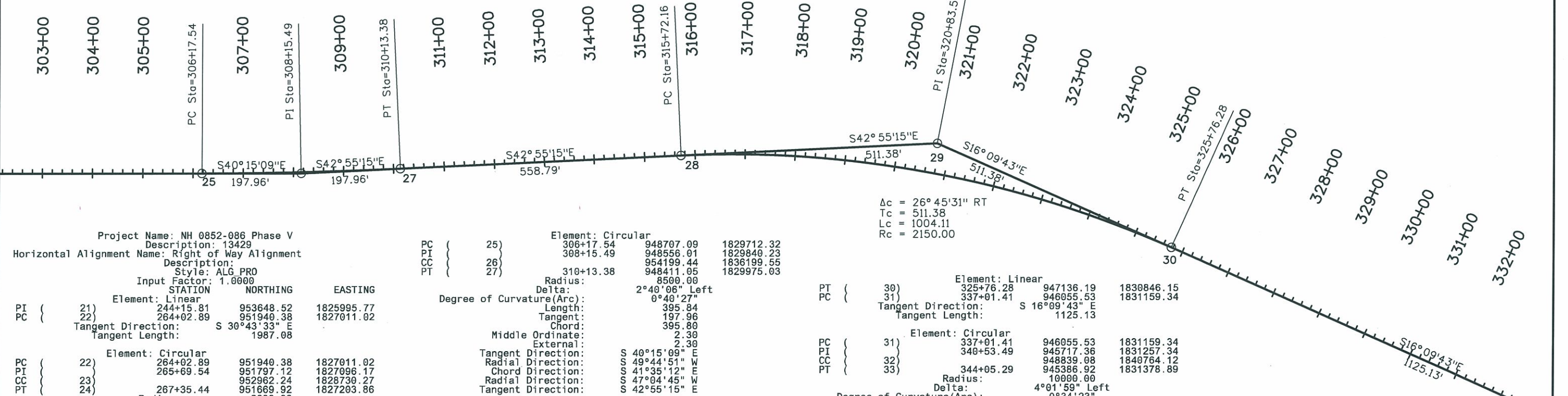
272+00 273+00 274+00 275+00 276+00 277+00 278+00 279+00 280+00 281+00 282+00 283+00 284+00 285+00 286+00 287+00 288+00 289+00 290+00 291+00 292+00 293+00 294+00 295+00 296+00 297+00 298+00 299+00 300+00 301+00 302+00

S40°15'09"E
3882.10'

View 1
View 2

Δc = 2°40'06" RT
Tc = 197.96
Lc = 395.84
Rc = 8500.00

Δc = 26°45'31" RT
Tc = 511.38
Lc = 1004.11
Rc = 2150.00

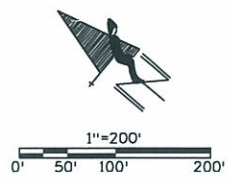


Project Name: NH 0852-086 Phase V
Description: 13429
Horizontal Alignment Name: Right of Way Alignment
Description: Style: ALG PRO
Input Factor: 1.0000

STATION	NORTHING	EASTING
PI (21)	244+15.81	953648.52
PC (22)	264+02.89	951940.38
Tangent Direction: S 30°43'33" E		
Tangent Length: 1987.08		
PC (22)	264+02.89	951940.38
PI (21)	265+69.54	951797.12
CC (23)	267+35.44	952962.24
PT (24)	267+35.44	951669.92
Element: Circular		
Radius: 2000.00		
Delta: 9°31'37" Left		
Degree of Curvature(Arc): 2°51'53"		
Length: 332.55		
Tangent: 166.66		
Chord: 332.17		
Middle Ordinate: 6.91		
External: 6.93		
Tangent Direction: S 30°43'33" E		
Radial Direction: S 59°16'27" W		
Chord Direction: S 35°29'21" E		
Radial Direction: S 49°44'51" W		
Tangent Direction: S 40°15'09" E		
PT (24)	267+35.44	951669.92
PC (25)	306+17.54	948707.09
Tangent Direction: S 40°15'09" E		
Tangent Length: 3882.10		

Element	Station	N	E
Element: Circular	PC (25)	306+17.54	948707.09
	PI (26)	308+15.49	948556.01
	CC (26)	310+13.38	948411.05
	PT (27)	310+13.38	8500.00
Radius: 8500.00			
Delta: 2°40'06" Left			
Degree of Curvature(Arc): 0°40'27"			
Length: 395.84			
Tangent: 197.96			
Chord: 395.80			
Middle Ordinate: 2.30			
External: 2.30			
Tangent Direction: S 40°15'09" E			
Radial Direction: S 49°44'51" W			
Chord Direction: S 41°35'12" E			
Radial Direction: S 47°04'45" W			
Tangent Direction: S 42°55'15" E			
PT (27)	310+13.38	948411.05	1829975.03
PC (28)	315+72.16	948001.85	1830355.56
Element: Circular			
Radius: 2150.00			
Delta: 26°45'31" Right			
Degree of Curvature(Arc): 2°39'54"			
Length: 1004.11			
Tangent: 511.38			
Chord: 995.01			
Middle Ordinate: 58.35			
External: 59.98			
Tangent Direction: S 42°55'15" E			
Radial Direction: S 47°04'45" W			
Chord Direction: S 29°32'29" E			
Radial Direction: S 73°50'17" W			
Tangent Direction: S 16°09'43" E			

Element	Station	N	E
Element: Linear	PT (30)	325+76.28	947136.19
	PC (31)	337+01.41	946055.53
Tangent Direction: S 16°09'43" E			
Tangent Length: 1125.13			
PT (30)	325+76.28	947136.19	1830846.15
PC (31)	337+01.41	946055.53	1831159.34
PI (32)	340+53.49	945717.36	1831257.34
CC (32)	344+05.29	948839.08	1840764.12
PT (33)	344+05.29	945386.92	1831378.89
Element: Circular			
Radius: 10000.00			
Delta: 4°01'59" Left			
Degree of Curvature(Arc): 0°34'23"			
Length: 703.88			
Tangent: 352.09			
Chord: 703.74			
Middle Ordinate: 6.19			
External: 6.20			
Tangent Direction: S 16°09'43" E			
Radial Direction: S 73°50'17" W			
Chord Direction: S 18°10'43" E			
Radial Direction: S 69°48'18" W			
Tangent Direction: S 20°11'42" E			
PT (33)	344+05.29	945386.92	1831378.89
POE (34)	368+16.48	943123.96	1832211.27
Element: Linear			
Tangent Direction: S 20°11'42" E			
Tangent Length: 2411.19			





Sheet Revisions

Date	Description	Initials
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Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Prepared By:

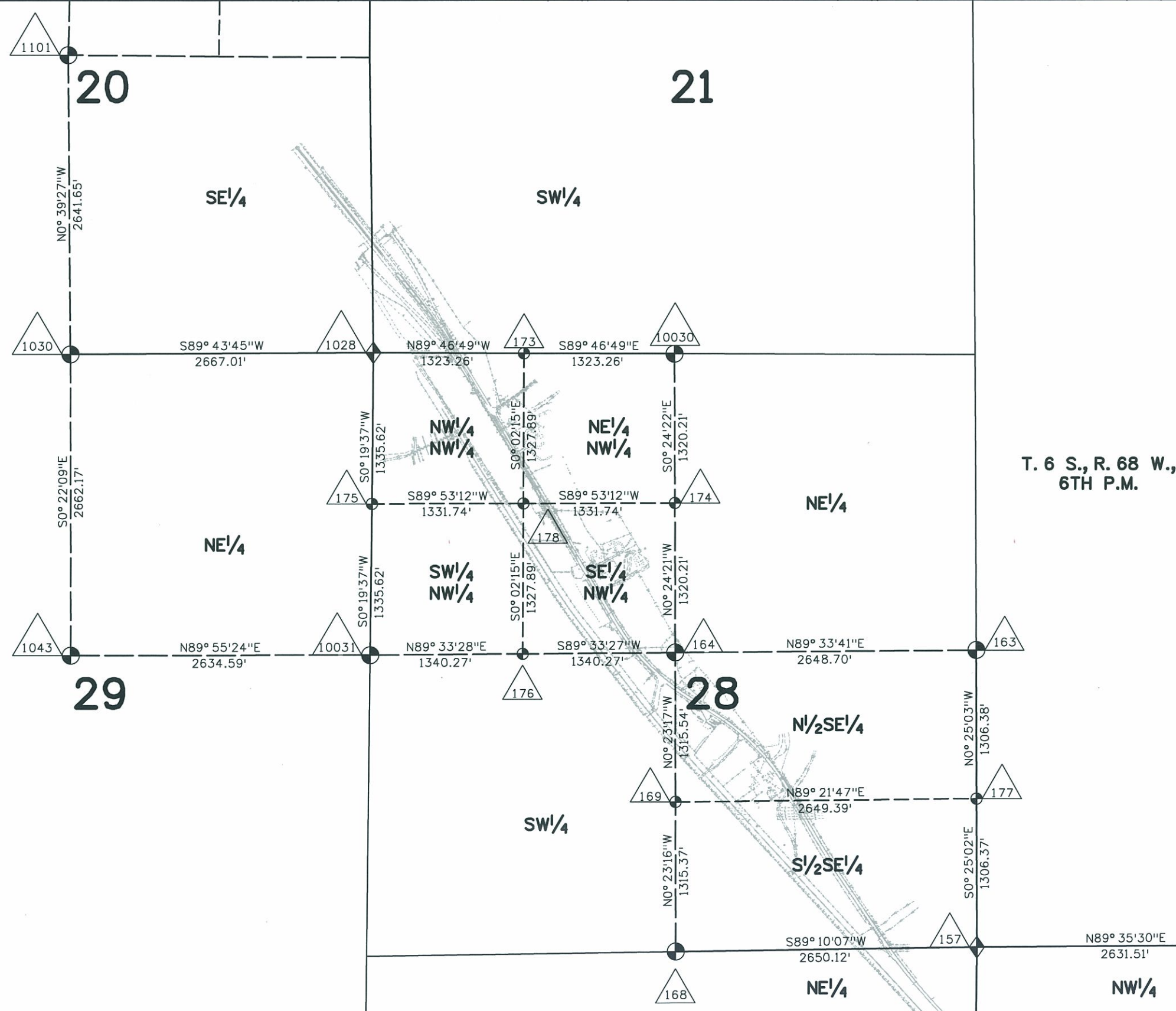
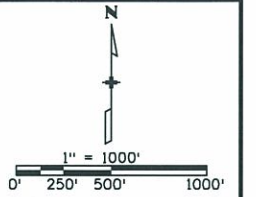


URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
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Right of Way Plans

Aliquot Section Breakdown

Project Number: NH 0852-086 Phase V			
Project Number: NH 0852-095 (Const.) / Project Code: 14976			
Project Location: SH 85, Cook Ranch to Louviers			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429	04-02-2008	RW 4.01 to RW 4.07	RW 4.03



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Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Prepared By:



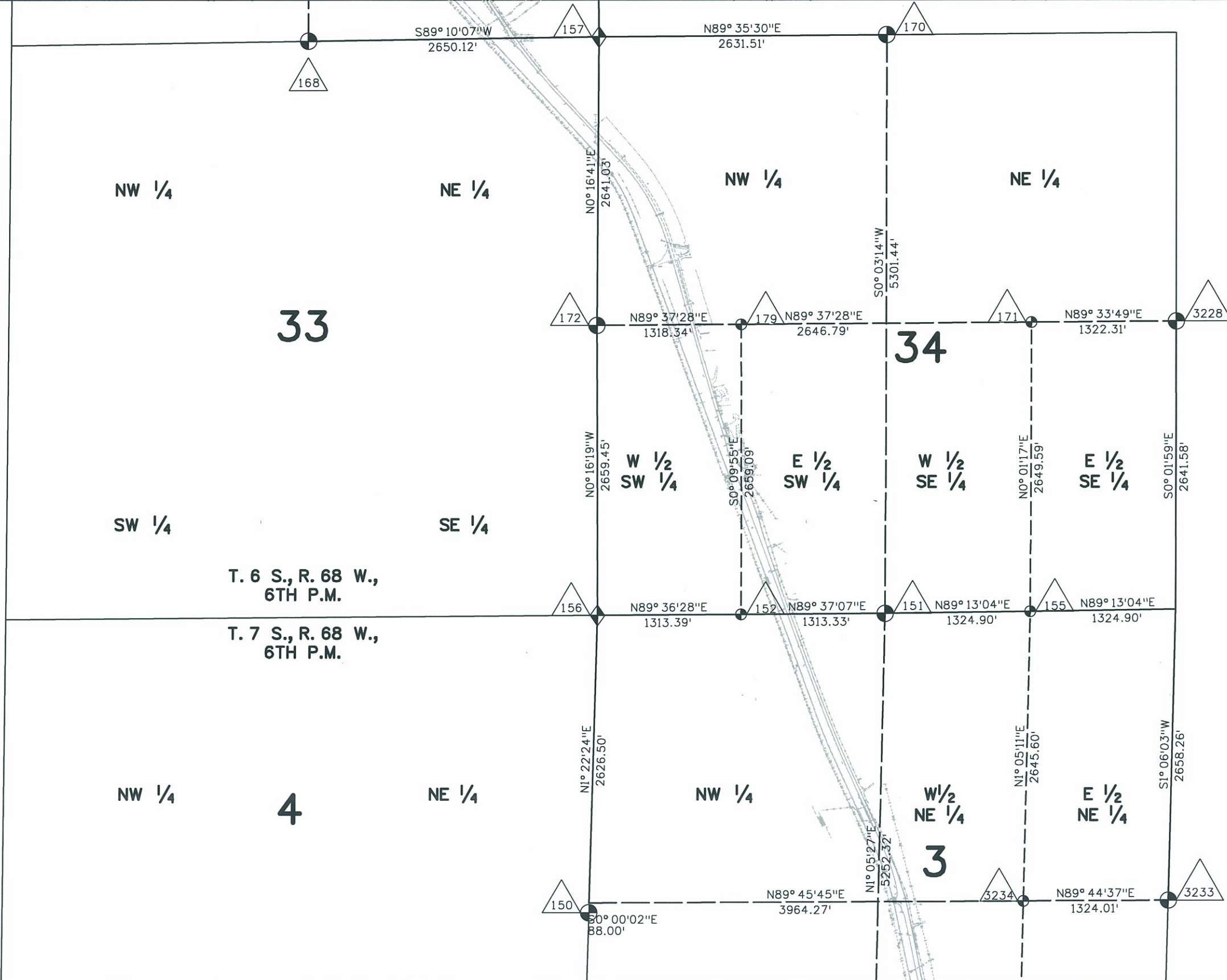
URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

Aliquot Section Breakdown

Project Number: NH 0852-086 Phase V		
Project Number: NH 0852-095 (Const.) / Project Code: 14976		
Project Location: SH 85, Cook Ranch to Louviers		
Project Code: 13429	Last Mod. Date: 04-02-2008	Sheet No.: RW 4.01 to RW 4.07
Subset Sheets: RW 4.01 to RW 4.07	Sheet No.: RW 4.04	

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Sheet Revisions		
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Sheet Revisions		
Date	Description	Initials

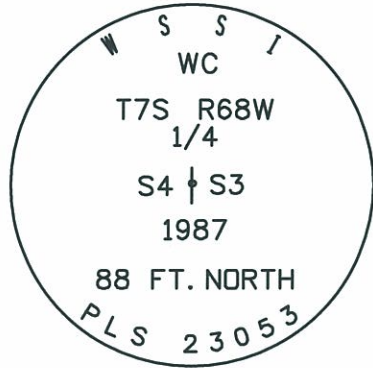
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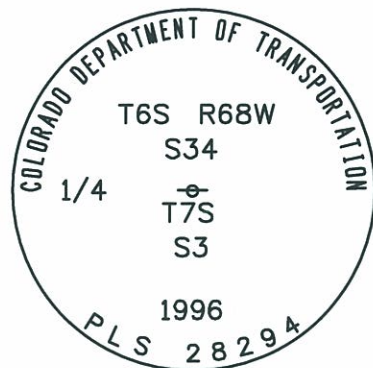


Right of Way Plans
Monuments Sheet

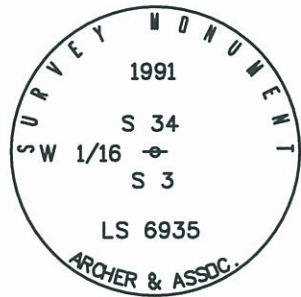
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Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Cook Ranch to Louviers			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429	04-02-2008	RW 4.01 to RW 4.07	RW 4.05



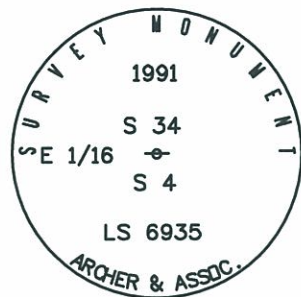
Fd. 3 1/2" Alum Cap Witness
Corner
Pt. No. 150



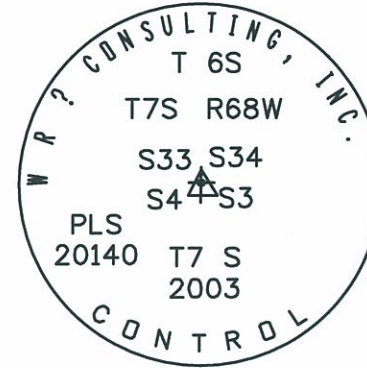
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Pt. No. 151



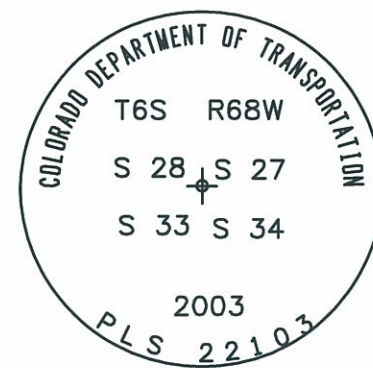
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Pt. No. 152



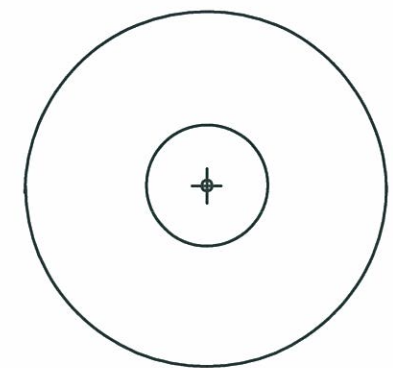
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Pt. No. 155



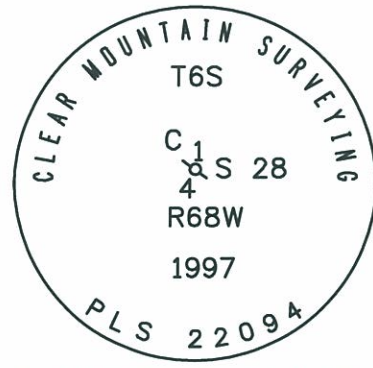
Fd. 3 1/4" Alum Cap
Pt. No. 156



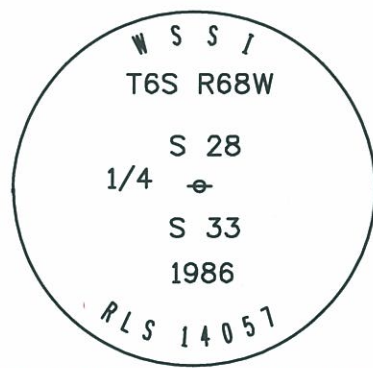
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Pt. No. 157



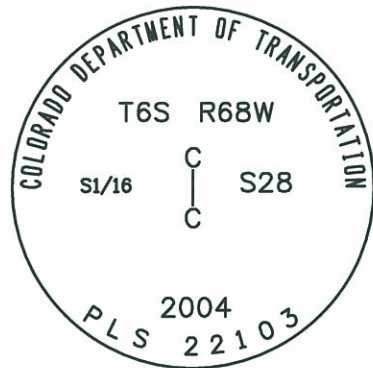
Fd. 2" Alum Cap in Concrete. Pt
No. 163,3213,3214, & 3215



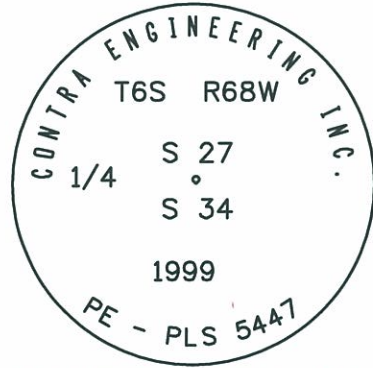
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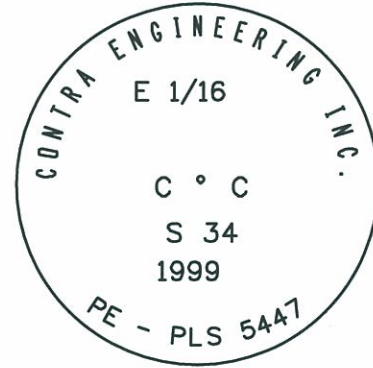
Fd. 3 1/4" Alum Cap Pt. No. 168



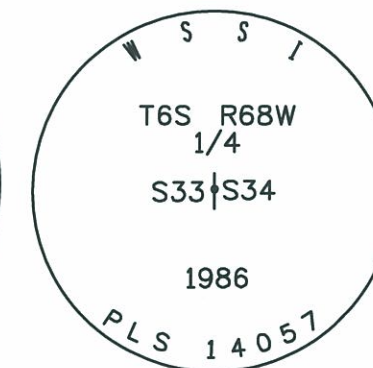
Set 3 1/4" Alum Cap Pt. No. 169



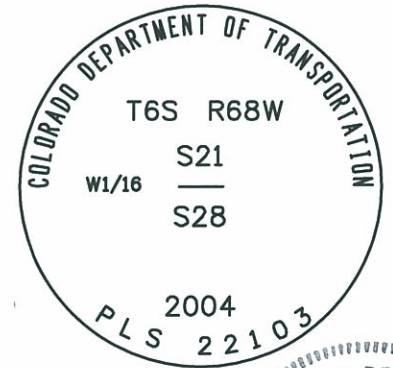
Fd. 3 1/4" Alum Cap Pt. No. 170



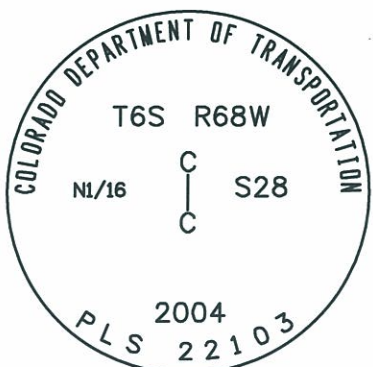
Fd. 3 1/4" Alum Cap Pt. No. 171



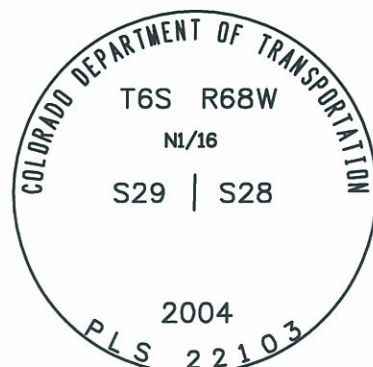
Fd. 3 1/2" Alum Cap Pt. No. 172



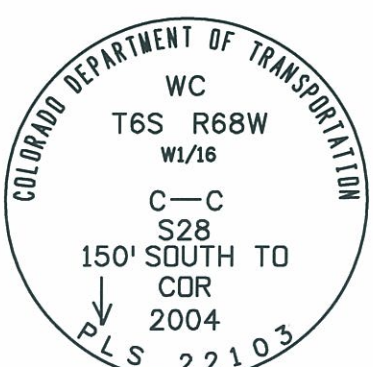
Set 3 1/4" Alum Cap Pt. No. 175



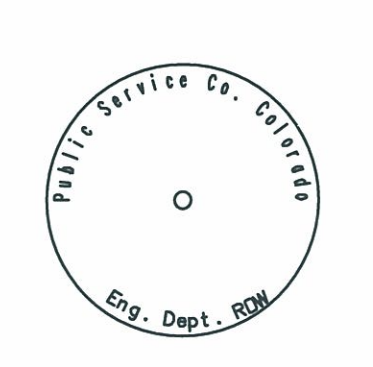
Set 3 1/4" Alum Cap Pt. No. 174



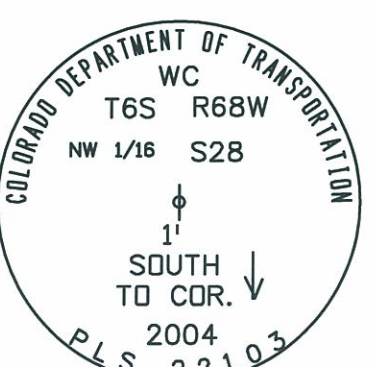
Set 3 1/4" Alum Cap Pt. No. 175



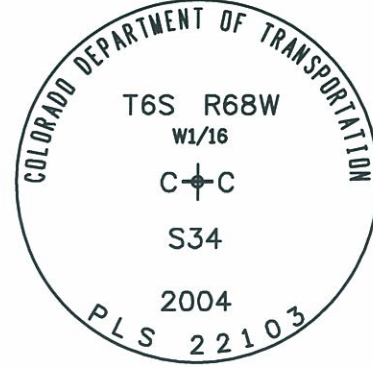
Set 3 1/4" Alum Cap Pt. No. 176



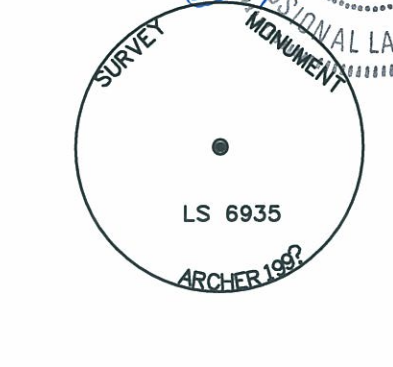
Found 2" Alum Cap in Concrete
Pt. No. 177



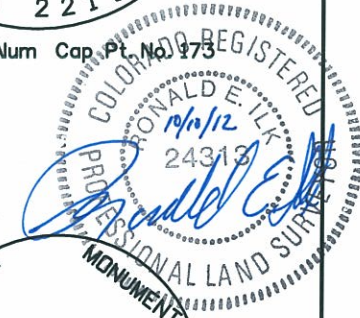
Set 3 1/4" Alum Cap Pt. No. 178



Set 3 1/4" Alum Cap Pt. No. 179



Fd. 2 1/2" Alum Cap Pt. No. 1028



Colorado Department of Transportation



18500 East Colfax Avenue
Aurora, CO 80011
Phone: 303-365-7410 FAX: 303-365-7350

Region 1

KAW

Sheet Revisions		
Date	Description	Initials
mm/yy	XXXXXXXX	XXX

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Prepared By:

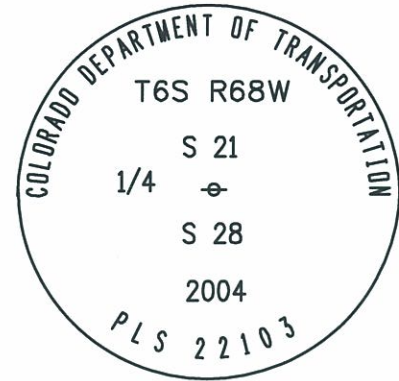


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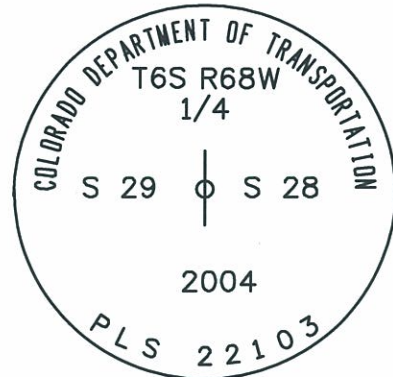
Right of Way Plans

Monuments Sheet

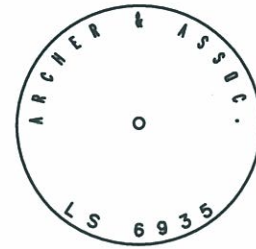
Project Number: NH 0852-086 Phase V			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Cook Ranch to Louviers			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429	04-02-2008	RW 4.01 to RW 4.07	RW 4.06



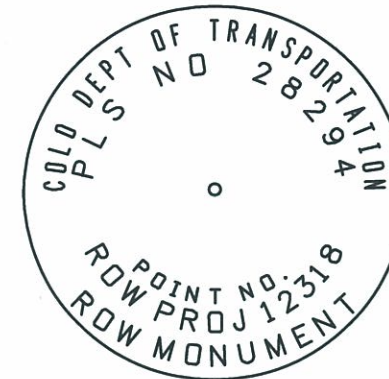
Set 3 1/4" Alum Cap Pt. No. 10030



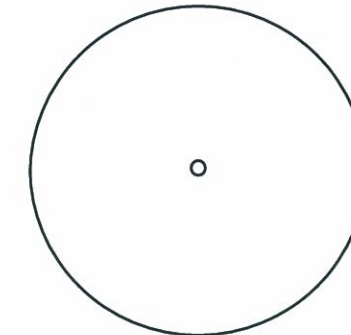
Set 3 1/4" Alum Cap Pt. No. 10031



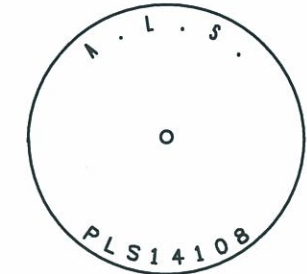
Fd. 1 1/4" Red Plastic Cap Pt Nos. 3065, 3066, 3224, 3225, & 3230



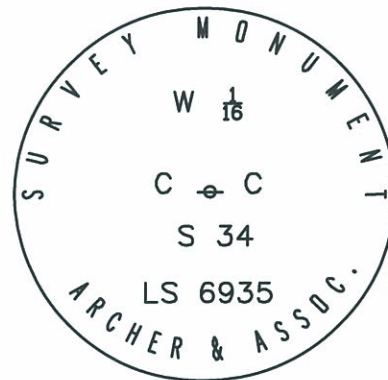
Fd. 3/4" Alum Cap Pt. No. 3067, 3219, 3221, 3222, & 3231



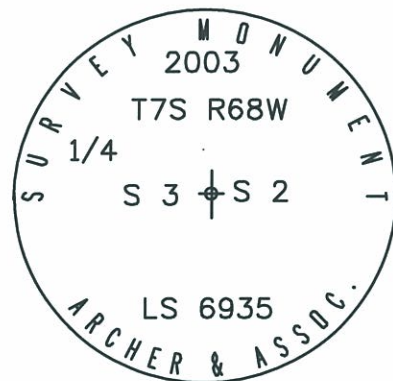
Fd. 2" Alum Cap (Illegible) Pt No. 3077



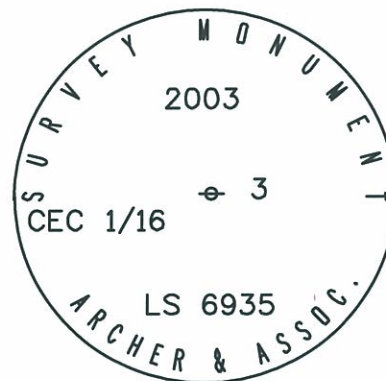
Fd. 1/2" Alum Cap Pt No. 3209, & 3210



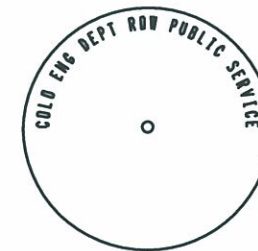
Fd. 2 1/2" Alum Cap Pt. No. 3227



Fd. 2 1/2" Alum Cap Pt. No. 3233



Fd. 2 1/2" Alum Cap Pt. No. 3234



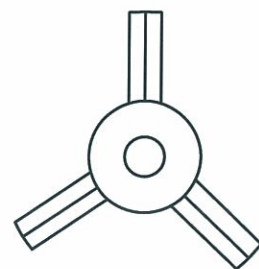
Fd. 1 1/2" Alum Cap in Concrete Pt Nos. 3103, & 3104



Fd. 5/8" Rebar Pt Nos. 3216



Fd. 1/2" Rebar Pt No. 3100, 3101, & 3102



Fd. 3/4" Alum. Finned Rod With no Cap Pt No. 3220





Sheet Revisions		
Date	Description	Initials
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Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

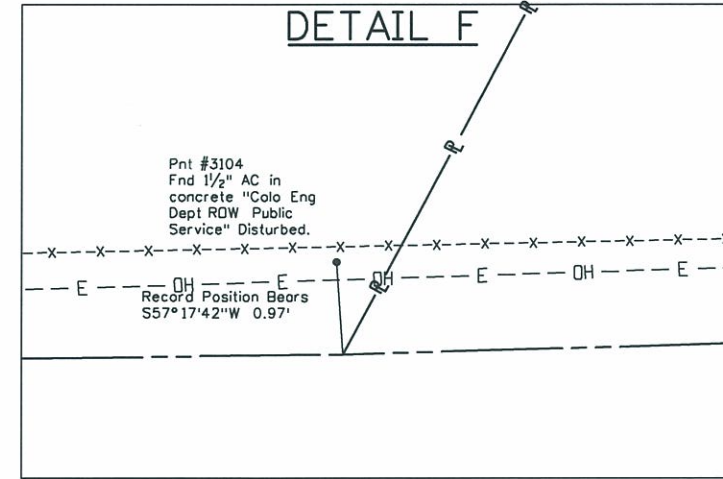
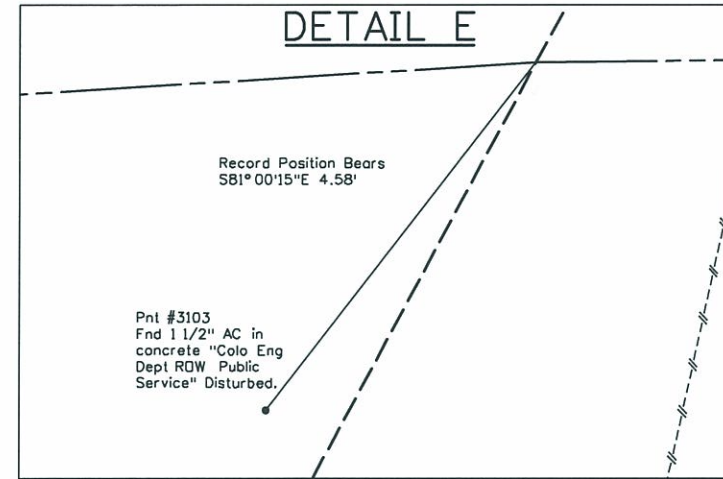
Prepared By:



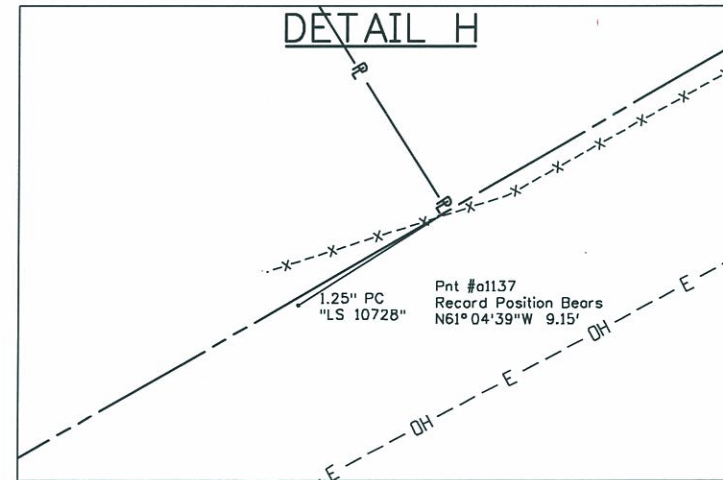
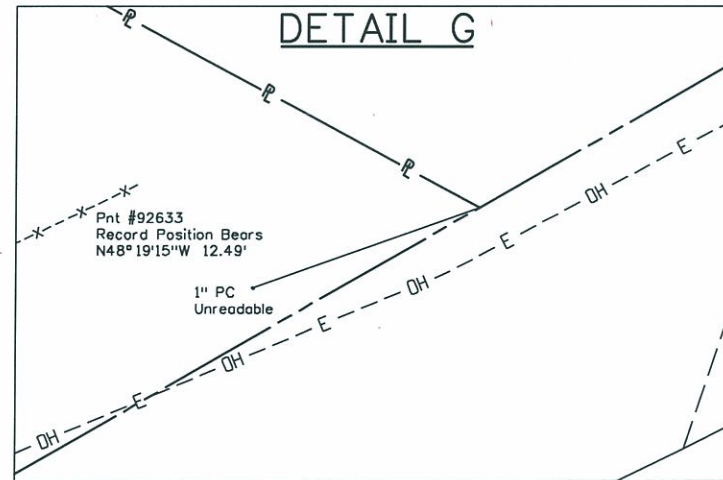
Right of Way Plans
Monuments Sheet

Project Number: NH 0852-086 Phase V			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Cook Ranch to Louviers			
Project Code:	Last Mod. Date	Subset Sheets	Sheet No.
13429	04-02-2008	RW 4.01 to RW 4.07	RW 4.07

1"=2'



1"=20'





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Region 1

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Sheet Revisions

Date	Description	Initials
1/19/11	Added a new Sheet 5.01 to acquire additional Parcels 104 & 105	CGG
1/19/11	Added Parcel 104 Rev, SE-104, TE-104, AC-104 Rev, 105 Rev, SE-105, AC-105 Rev	CGG
10/3/12	Switch Pt. No.'s 560 & 563	DDH

Sheet Revisions

Date	Description	Initials
10/8/12	Show pts 517 & 521 as found ROW markers	DDH

Prepared By:

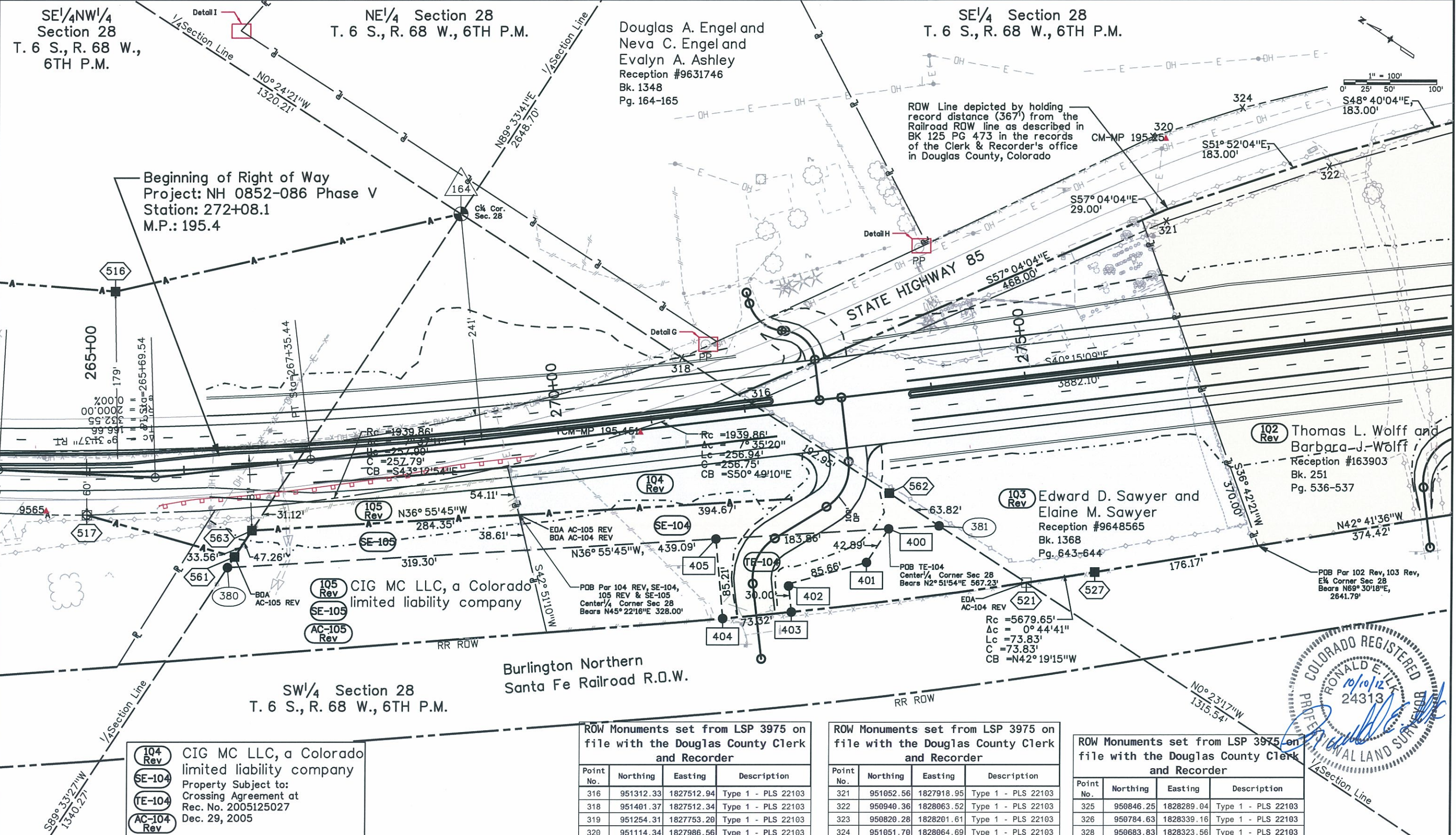


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Right of Way Plans

Plan Sheet

Project Number: NH 0852-086 Phase V
Project Number: NH 0852-095 (Const.) / Project Code: 14976
Project Location: SH 85, Cook Ranch to Louviers
Project Code: Last Mod. Date Subset Sheets Sheet No.
13429 10-08-2012 RW 5.01 to RW 5.06 RW 5.01



104 Rev CIG MC LLC, a Colorado limited liability company
Property Subject to: Crossing Agreement at Rec. No. 2005125027 Dec. 29, 2005

SE-104

TE-104

AC-104 Rev

ROW Monuments set from LSP 3975 on file with the Douglas County Clerk and Recorder

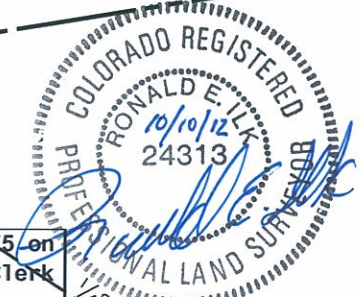
Point No.	Northing	Easting	Description
316	951312.33	1827512.94	Type 1 - PLS 22103
318	951401.37	1827512.34	Type 1 - PLS 22103
319	951254.31	1827753.20	Type 1 - PLS 22103
320	951114.34	1827986.56	Type 1 - PLS 22103

ROW Monuments set from LSP 3975 on file with the Douglas County Clerk and Recorder

Point No.	Northing	Easting	Description
321	951052.56	1827918.95	Type 1 - PLS 22103
322	950940.36	1828063.52	Type 1 - PLS 22103
323	950820.28	1828201.61	Type 1 - PLS 22103
324	951051.70	1828064.69	Type 1 - PLS 22103

ROW Monuments set from LSP 3975 on file with the Douglas County Clerk and Recorder

Point No.	Northing	Easting	Description
325	950846.25	1828289.04	Type 1 - PLS 22103
326	950784.63	1828339.16	Type 1 - PLS 22103
328	950683.83	1828323.56	Type 1 - PLS 22103



Darren_Horning 02:13:40 AM I:\PROJECTS\22240049_SH85_Cook_to_Louviers\6.0_Deliverables\13429_ROW_Survey\Drawings\13429ROW_501-Plan.dgn

Sheet Revisions

Date	Description	Initiale
6/30/08	Revised Parcels 101, 102, 103	CGG
5/9/11	Added Parcels 104 Rev, SE-104, TE-104, AC-104 105 Rev, SE-105, AC-105	CGG
10/8/12	Show pt 521 as found ROW markers	DDH

Prepared By:



Right of Way Plans

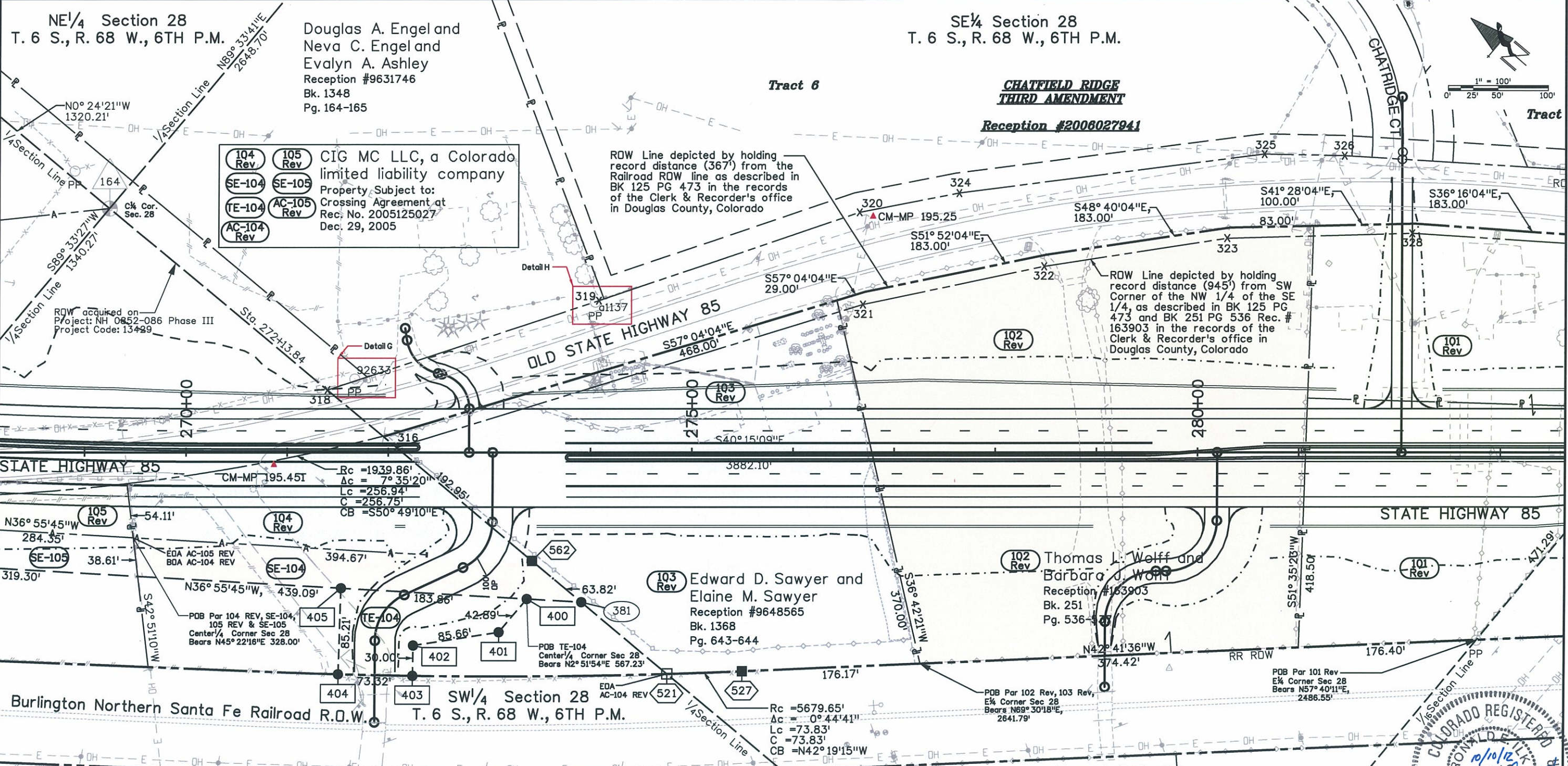
Plan Sheet

Project Number: NH 0852-086 Phase V			
Project Number: NH 0852-095 (Const.) / Project Code: 14976			
Project Location: SH 85, Cook Ranch to Louviers			
Project Code: 13429	Last Mod. Date: 10-08-2012	Subset Sheets: RW 5.01 to RW 5.06	Sheet No.: RW 5.02

NE 1/4 Section 28
T. 6 S., R. 68 W., 6TH P.M.

Douglas A. Engel and
Neva C. Engel and
Evalyn A. Ashley
Reception #9631746
Bk. 1348
Pg. 164-165

SE 1/4 Section 28
T. 6 S., R. 68 W., 6TH P.M.



104 Rev **105 Rev** CIG MC LLC, a Colorado
SE-104 **SE-105** limited liability company
TE-104 **AC-105** Property Subject to:
AC-104 **Rev** Crossing Agreement at
Rec. No. 2005125027
Dec. 29, 2005

ROW Line depicted by holding
record distance (367') from the
Railroad ROW line as described in
BK 125 PG 473 in the records
of the Clerk & Recorder's office
in Douglas County, Colorado

ROW Line depicted by holding
record distance (945') from SW
Corner of the NW 1/4 of the SE
1/4, as described in BK 125 PG
473 and BK 251 PG 536 Rec. #
163903 in the records of the
Clerk & Recorder's office in
Douglas County, Colorado

STATE HIGHWAY 85

STATE HIGHWAY 85

Burlington Northern Santa Fe Railroad R.O.W. SW 1/4 Section 28
T. 6 S., R. 68 W., 6TH P.M.

ROW Monuments set from LSP 3975 on
file with the Douglas County Clerk
and Recorder

Point No.	Northing	Easting	Description
316	951312.33	1827512.94	Type 1 - PLS 22103
318	951481.37	1827512.34	Type 1 - PLS 22103
319	951254.31	1827753.20	Type 1 - PLS 22103
320	951114.34	1827986.56	Type 1 - PLS 22103

ROW Monuments set from LSP 3975 on
file with the Douglas County Clerk
and Recorder

Point No.	Northing	Easting	Description
321	951052.56	1827918.95	Type 1 - PLS 22103
322	950940.36	1828063.52	Type 1 - PLS 22103
323	950820.28	1828201.61	Type 1 - PLS 22103
324	951051.70	1828064.69	Type 1 - PLS 22103

ROW Monuments set from LSP 3975 on
file with the Douglas County Clerk
and Recorder

Point No.	Northing	Easting	Description
325	950846.25	1828289.04	Type 1 - PLS 22103
326	950784.63	1828339.16	Type 1 - PLS 22103
328	950683.83	1828323.56	Type 1 - PLS 22103

101 Rev Billie V. Clark
Reception #9466801, Bk. 1238 Pg. 2016-2017
Reception #9466803, Bk. 1238 Pg. 2020-2021
Property Subject to:
Utility Easement @ Bk. 269 Pg. 464



SE 1/4 Section 28
T. 6 S., R. 68 W., 6TH P.M.

Darren_Horning 9/13/10 AM I:\PROJECTS\2224\0409_SH85_Cook_to_Louviers\6.0_Deliverables\13429\ROW_Survey\Drawings\13429ROW_502-Plan.dgn



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Aurora, CO 80011
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Region 1

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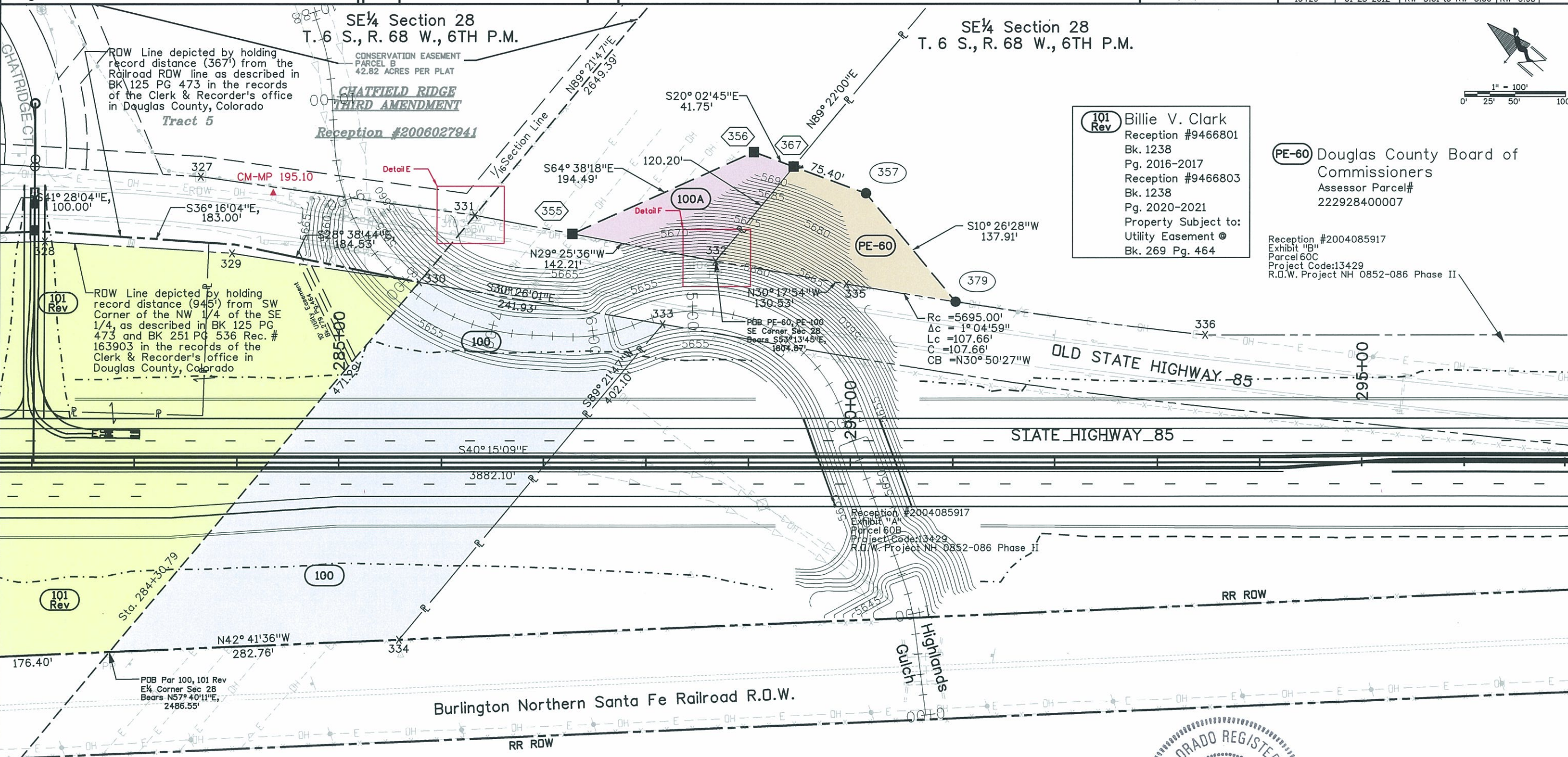
Sheet Revisions		
Date	Description	Initials
6/30/08	Revised Parcel 101	CGG
5/9/11	Added PE-60, PE-100	CGG
1/25/12	PE-100 to 100A & points adjustment	RBE

Prepared By:



URS Corporation
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Denver, CO 80237
(303) 740-2600

Project Number: NH 0852-086 Phase V		
Project Number: NH 0852-095 (Const.)/ Project Code: 14976		
Project Location: SH 85, Cook Ranch to Louviers		
Project Code: 13429	Last Mod. Date: 01-25-2012	Sheet No. 5.03
Subset Sheets: RW 5.01 to RW 5.06		



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Douglas County Board of Commissioners
Assessor Parcel#
222933100001



18500 East Colfax Avenue
Aurora, CO 80011
Phone: 303-365-7410 FAX: 303-365-7350

Region 1

KAW

Sheet Revisions		
Date	Description	Initials
5/27/09	Revised PE-277	CGG

Prepared By:



URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

Plan Sheet

Project Number: NH 0852-086 Phase V		
Project Number: NH 0852-095 (Const.) / Project Code: 14976		
Project Location: SH 85, Cook Ranch to Louviers		
Project Code: 13429	Last Mod. Date: 01-19-2011	Sheet No. RW 5.01 to RW 5.06 RW 5.04

SE1/4 Section 28
T. 6 S., R. 68 W., 6TH P.M.

NE1/4 Section 33
T. 6 S., R. 68 W., 6TH P.M.

Douglas County Board of Commissioners
Assessor Parcel# 222928400007

ROW Monuments set from LSP 3975 on file with the Douglas County Clerk and Recorder

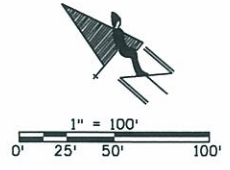
Point No.	Northing	Easting	Description
337	949149.28	1829501.73	Type 1 - LS 22103
338	949111.84	1829584.03	Type 1 - LS 22103

Reception #2004085917
Exhibit "B"
Parcel 60C
Project Code: 13429
R.O.W. Project NH 0852-086 Phase II

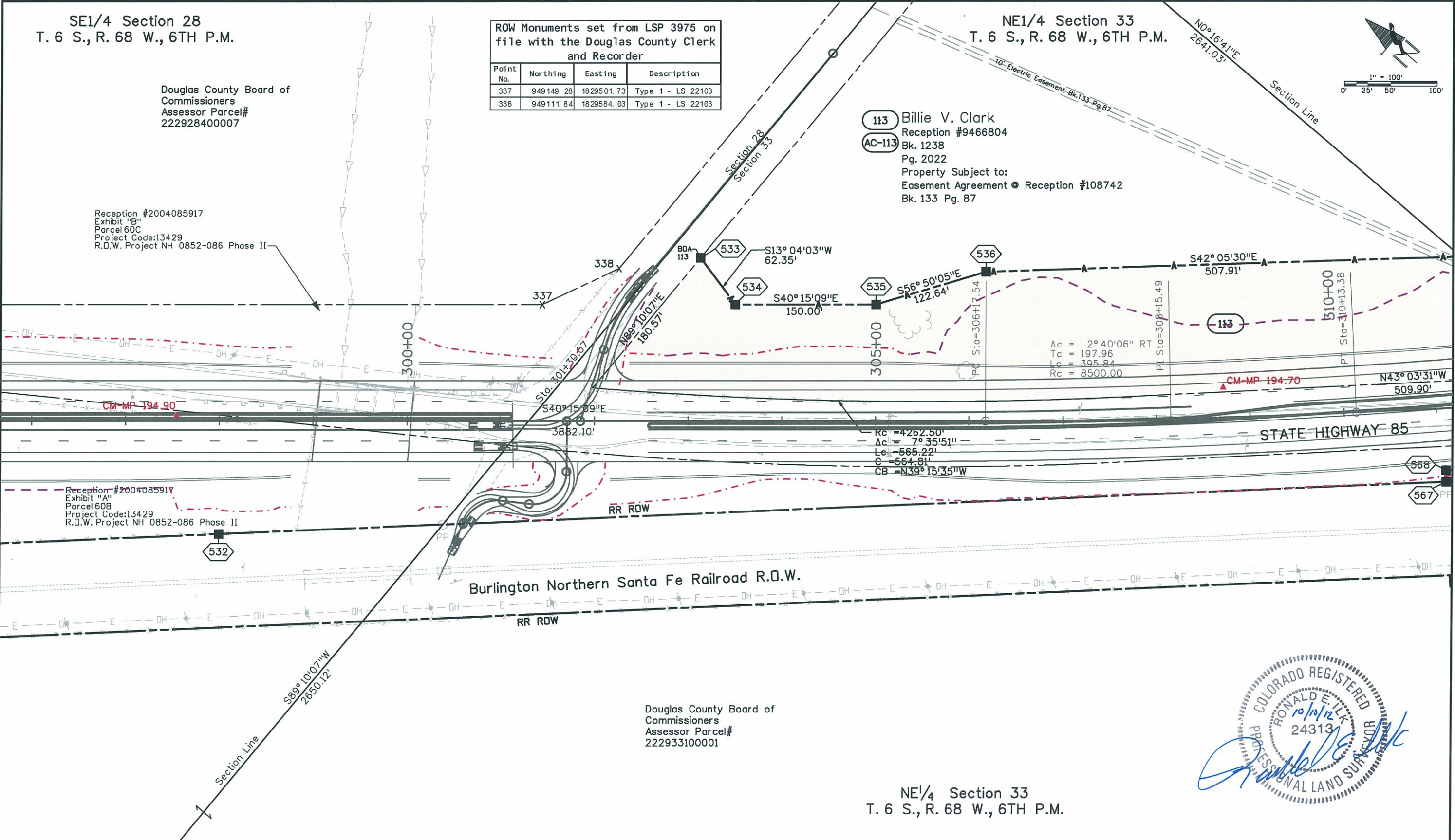
Reception #2004085917
Exhibit "A"
Parcel 60B
Project Code: 13429
R.O.W. Project NH 0852-086 Phase II

Douglas County Board of Commissioners
Assessor Parcel# 222933100001

113 Billie V. Clark
Reception #9466804
Bk. 1238
Pg. 2022
Property Subject to:
Easement Agreement • Reception #108742
Bk. 133 Pg. 87



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NE1/4 Section 33
T. 6 S., R. 68 W., 6TH P.M.



Sheet Revisions

Date	Description	Initials
5/27/09	Revised PE-277	CGG

Prepared By:



URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

Plan Sheet

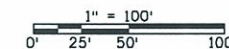
Project Number: NH 0852-086 Phase V		
Project Number: NH 0852-095 (Const.)/ Project Code: 14976		
Project Location: SH 85, Cook Ranch to Louviers		
Project Code: 13429	Last Mod. Date: 01-19-2011	Sheet No. RW 5.01 to RW 5.06 RW 5.05

NW 1/4 Section 34
T. 6 S., R. 68 W., 6TH P.M.

CHEROKEE RIDGE
ESTATES
FILING NO. 1

Section 34
Section 33
Section 32

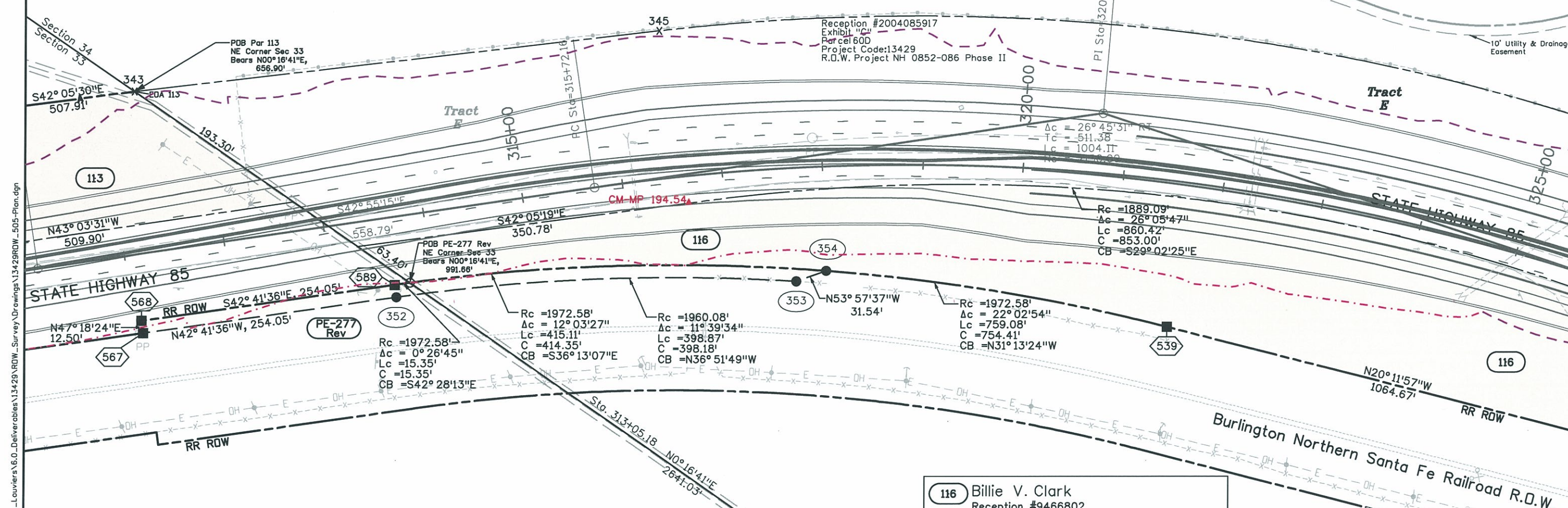
10' Utility & Drainage Easement



113 Billie V. Clark
Reception #9466804
Bk. 1238
Pg. 2022
Property Subject to:
Easement Agreement Reception #108742
Bk. 133 Pg. 87

ROW Monuments set from LSP 3975 on file with the Douglas County Clerk and Recorder

Point No.	Northing	Easting	Description
343	948433.57	1830174.89	Type 1 - LS 221 03
345	948038.27	1830520.93	Type 1 - LS 221 03



PE-277 Rev BNSF Railway Company, a Delaware corporation, as successor in interest to the Atchison, Topeka and Santa Fe Railway Company, A Delaware corporation

116 Billie V. Clark
Reception #9466802
Bk. 1238
Pg. 2018-2019
Property Subject to:
Right of Way Granted to Colorado Telephone Company Bk. 31 Pg. 266
Deed from Colorado Telephone Company to Mountain States Telephone and Telegraph Company Bk. 39 Pg. 547

Billie V. Clark
Assessor Parcel#
222934200007



Douglas County Board of Commissioners
Assessor Parcel#
222933100001

NE 1/4 Section 33
T. 6 S., R. 68 W., 6TH P.M.

NW 1/4 Section 34
T. 6 S., R. 68 W., 6TH P.M.

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Sheet Revisions

Date	Description	Initials
mm/yy	XXXXXXXX	XXX

Prepared By:



URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

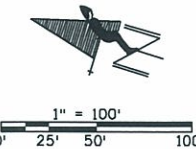
Right of Way Plans

Plan Sheet

Project Number: NH 0852-086 Phase V			
Project Number: NH 0852-095 (Const.)/ Project Code: 14976			
Project Location: SH 85, Cook Ranch to Louviers			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
13429	01-19-2011	RW 5.01 to RW 5.06	RW 5.06

NW 1/4 Section 34
T. 6 S., R. 68 W., 6TH P.M.

SW 1/4 Section 34
T. 6 S., R. 68 W., 6TH P.M.



CHEROKEE RIDGE
ESTATES
FILING NO. 1

Tract D

ROW Monuments set from LSP 3975 on file with the Douglas County Clerk and Recorder

Point No.	Northing	Easting	Description
346	947221.93	1830974.15	Type 1 - LS 22103
347	946456.29	1831206.46	Type 1 - LS 22103

Reception #2004085917
Exhibit "C"
Parcel 60D
Project Code: 13429
R.O.W. Project NH 0852-086 Phase II

Rc = 1889.09'
Δc = 26° 05' 47"
Lc = 860.42'
C = 853.00'
CB = S29° 02' 25" E

S15° 59' 32" E
729.27'

CM-MP 194.25

N20° 11' 57" W
1064.67'

BX6-L-AUTO SALVAGE-NA-5"-M

Burlington Northern Santa Fe Railroad R.O.W.

STATE HIGHWAY 85

RR ROW

RR ROW

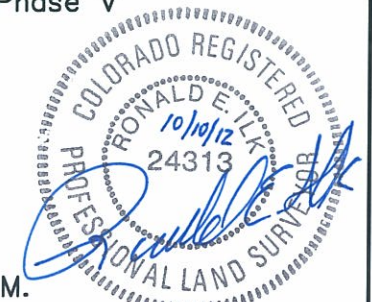
Billie V. Clark
Assessor Parcel#
222934200007

NW 1/4 Section 34
T. 6 S., R. 68 W., 6TH P.M.

116 Billie V. Clark
Reception #9466802
Bk. 1238
Pg. 2018-2019
Property Subject to:
Right of Way Granted to Colorado Telephone Company ● Bk. 31 Pg. 266
Deed from Colorado Telephone Company to Mountain States Telephone and Telegraph Company ● Bk. 39 Pg. 547

End of Right of Way
Project: NH 0852-086 Phase V
Station: 332+79.9
M.P.: 194.3

SW 1/4 Section 34
T. 6 S., R. 68 W., 6TH P.M.



Colorado Department of Transportation



18500 East Colfax Avenue
Aurora, CO 80011
Phone: 303-365-7410 FAX: 303-365-7350

Region 1

KAW

Sheet Revisions		
Date	Description	Initials
5/9/11	Added Sheet (RW) 6.02	CGG
5/9/11	Added Parcels 104 Rev, SE-104, TE-104, AC-104 Rev, 105 Rev, SE-105, AC-105 Rev, PE-60, PE-100	CGG
1-25-12	PE-100 change to 100A	RBE

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Prepared By:

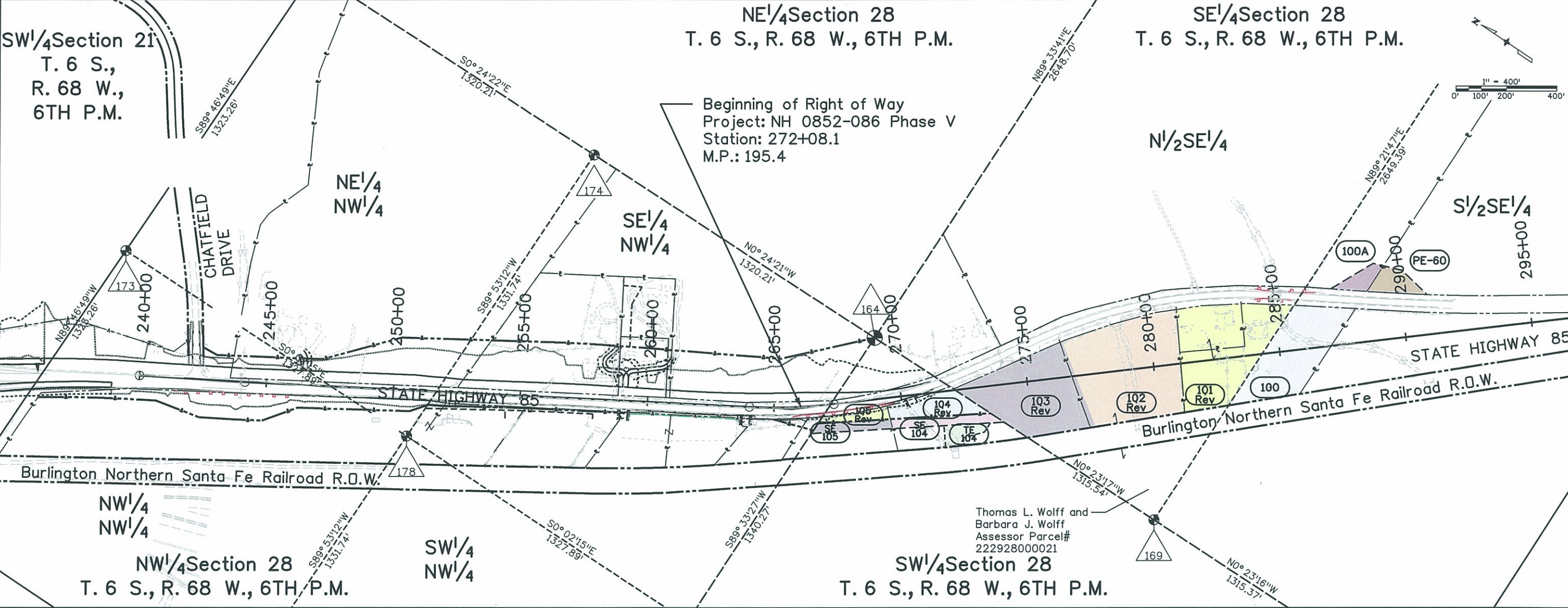


URS Corporation
8181 East Tufts Avenue
Denver, CO 80237
(303) 740-2600

Right of Way Plans

Ownership Sheet

Project Number: NH 0852-086 Phase V		
Project Number: NH 0852-095 (Const.)/ Project Code: 14976		
Project Location: SH 85, Cook Ranch to Louviers		
Project Code: 13429	Last Mod. Date: 1-25-2012	Sheet No.: 6.01
Subset Sheets: 6.01 to 6.02		RW 6.01



- PE-60** Douglas County Board of Commissioners
100 3rd St.
Castle Rock, CO. 80104
- 100** Public Service Company of Colorado
Commitment #NF00434
P.O. Box 840, Ste. 400
Denver, CO 80201
- 100A** Public Service Company of Colorado
Commitment #NF00434
P.O. Box 840, Ste. 400
Denver, CO 80201
- 101 Rev** Billie V. Clark
Commitment #NF00433
5924 Airport Road
Sedalia, CO 80135
- 102 Rev** Thomas L. Wolff and Barbara J. Wolff
Commitment #NF00432
2282 South Franklin
Denver, CO 80210
- 103 Rev** Edward D. Sawyer and Elaine M. Sawyer
Commitment #NF0031
9035 West Wagon Wheel Dr.
Littleton, CO 80125
- 104 Rev** CIG MC LLC, a Colorado limited liability company
Commitment #NF00406
1600 Wynkoop Street, Suit 200
Denver, CO 80202
- 105 Rev** CIG MC LLC, a Colorado limited liability company
Commitment #NF00406
1600 Wynkoop Street, Suit 200
Denver, CO 80202
- SE-104** Property Subject to Crossing Agreement at Rec. No. 2005125027 Dec. 29, 2005
- TE-104** Property Subject to Crossing Agreement at Rec. No. 2005125027 Dec. 29, 2005
- AC-105 Rev** Property Subject to Crossing Agreement at Rec. No. 2005125027 Dec. 29, 2005
- AC-104 Rev** Property Subject to Crossing Agreement at Rec. No. 2005125027 Dec. 29, 2005



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Colorado Department of Transportation



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Region 1

KAW

Sheet Revisions

Date	Description	Initials
6/30/08	Revised Parcels 101, 102, 103	CGG
5/27/09	Revised PE-277	CGG
5/9/11	Added Sheet (RW) 6.02	CGG

Sheet Revisions

Date	Description	Initials
5/9/11	Added Parcels 104Rev, SE-104, TE-104, AC-104, 105Rev, SE-105, AC-105, PE-60, PE-100	CGG
1-25-12	Changed PE-100 to 100A	RBE

Sheet Revisions

Date	Description	Initials

Prepared By:

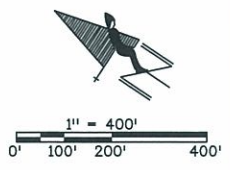
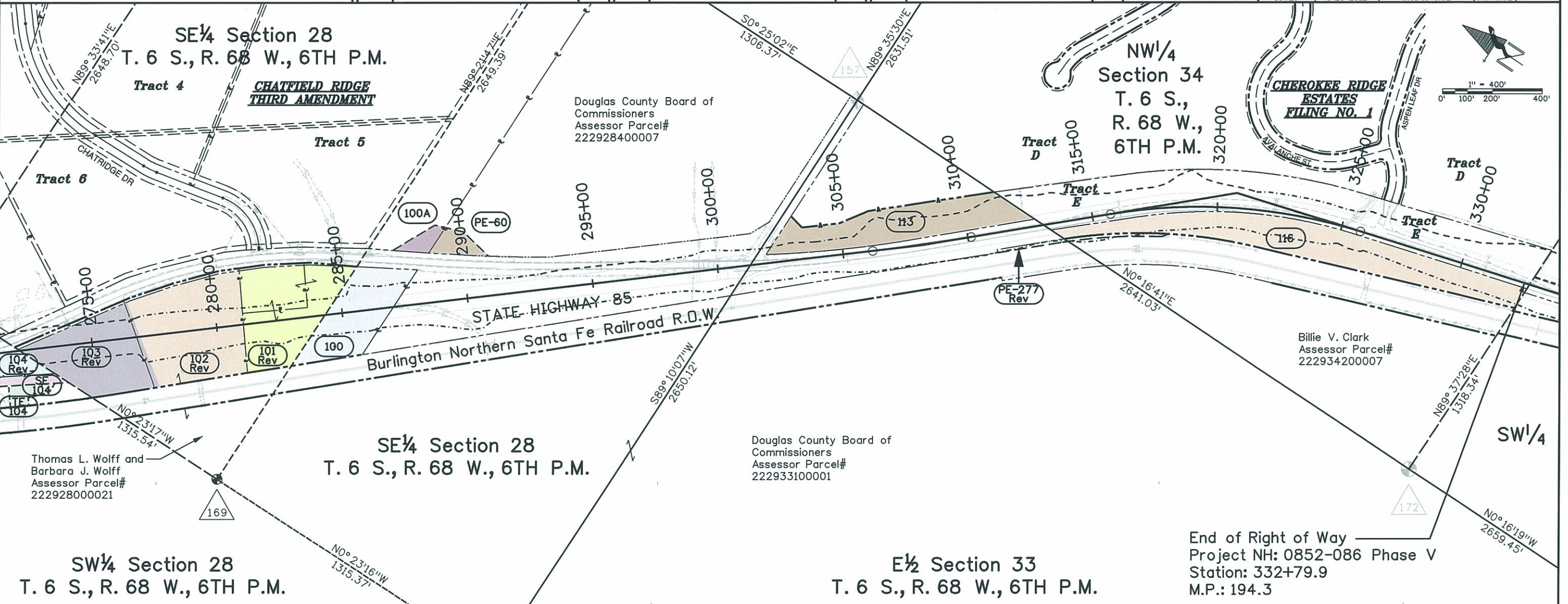


URS Corporation
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Denver, CO 80237
(303) 740-2600

Right of Way Plans

Ownership Sheet

Project Number: NH 0852-086 Phase V		
Project Number: NH 0852-095 (Const.)/ Project Code: 14976		
Project Location: SH 85, Cook Ranch to Louviers		
Project Code: 13429	Last Mod. Date: 1-25-2012	Sheet No.: 6.02
Subset Sheets: 6.01 to 6.02		RW 6.02



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PE-60 Douglas County Board of Commissioners
100 3rd St.
Castle Rock, CO 80104

100 Public Service Company of Colorado
Commitment #NF00434
100A P.O. Box 840, Ste. 400
Denver, CO 80201

101 Rev Billie V. Clark
Commitment #NF00433
5924 Airport Road
Sedalia, CO 80135

102 Rev Thomas L. Wolff and Barbara J. Wolff
Commitment #NF00432
2282 South Franklin
Denver, CO 80210

103 Rev Edward D. Sawyer and Elaine M. Sawyer
Commitment #NF0031
9035 West Wagon Wheel Dr.
Littleton, CO 80125

104 Rev CIG MC LLC, a Colorado limited liability company
Commitment #NF00406
SE 104 1600 Wynkoop Street, Suit 200
Denver, CO 80202
TE 104 Property Subject to Crossing Agreement at Rec. No. 2005125027 Dec. 29, 2005
AC-104 REV

113 Billie V. Clark
Commitment #NF00435
AC-113 5924 Airport Road
Sedalia, CO 80135

116 Billie V. Clark
Commitment #NF00437
5924 Airport Road
Sedalia, CO 80135

PE-277 Rev BNSF Railway Company, a Delaware corporation, as successor in interest to the Atchison, Topeka and Santa Fe Railway Company, A Delaware corporation
Commitment #NF00417
Property Tax Department
PO Box 961089
Fort Worth, TX 76161-0089

End of Right of Way
Project NH: 0852-086 Phase V
Station: 332+79.9
M.P.: 194.3



ROCK, MASONRY OR MECHANICALLY STABILIZED WALL (FACE)

BRIDGE CURB

BRIDGE RAIL

BRIDGE RAIL-TYPE 3A

FLOW LINE CBC

STRUCTURES MISCELLANEOUS

STRUCTURE

COMBINATION WIRE FENCE WITH GATE

CHAIN LINK FENCE WITH GATE

BARBED WIRE FENCE WITH GATE

SOUND OR BARRIER FENCE WITH GATE

DEER FENCE WITH GATE WITH GATE

WOOD FENCE WITH GATE

SNOW FENCE WITH GATE

SILT FENCE

DEBRIS FENCE

FENCE

HAZARD WASTE MONITORING WELL

ENVIRONMENTAL CONCERN SITE

ROCK CHECK DAM

CONCRETE WASHOUT STRUCTURE

DROP INLET EROSION PROTECTION

TEMPORARY BERM

SOIL RETENTION BLANKET

PIPE INLET EROSION PROTECTION

RIGID INLET PROTECTION

STORM DRAIN INLET PROTECTION

EROSION CHECK

EROSION LOG DITCH CHECK

SILT DIKE

SEDIMENT TRAP/ DEWATERING STRUCTURE

EXISTING WETLAND PATTERN

TEMPORARY SLOPE DRAIN

STABILIZED CONSTRUCTION ENTRANCE

PLASTIC FENCE

SILT FENCE

DEBRIS FENCE

ENVIRONMENTAL CONCERN

HAZARDOUS WASTE SITE

NOXIOUS WEED

ENVIRONMENTAL

METAL

CONCRETE

PIPE WITH END SECTION

HEADWALL

PIPE MISCELLANEOUS

PIPES

CHECK DAM UNDER 4 FT

HEADGATE 1

DIVERSION BOX SYMBOL

SPRING SYMBOL

FLOW GAUGE

MISCELLANEOUS WATERWAYS

DITCH WITH FLOW

EDGE OF WATER, CANALS, PONDS, STREAM OR RIVER

DITCHES AND WATERWAY

MISCELLANEOUS BUILDING STRUCTURE (PRIMARY)

MISCELLANEOUS STRUCTURE (SECONDARY)

FOUNDATION OR PAD (CONCRETE OR BLOCK)

BUILDING STRUCTURES

DECIDUOUS TREE

DECIDUOUS SHRUB

TEETER TOTTER SYMBOL

SWING SET SYMBOL

CONIFEROUS TREE

CONIFEROUS SHRUB

MISCELLANEOUS TREES

BENCH

SPRINKLER HEAD

TREES GROVE

HEDGE OR SHRUB GROVE

EDGE OF WETLANDS

LANDSCAPING

SANITARY SEWER MANHOLE

SIZE, MATERIAL, OWNER

SANITARY SEWER MISCELLANEOUS SYMBOL

SANITARY SEWER PIPE

SANITARY SEWER PIPE MISCELLANEOUS

SANITARY SEWER

INLET TYPE 13

INLET TYPE C

INLET TYPE D

INLET VANE GRATE

INLET TYPE R XX FT LENGTH

STORM SEWER MANHOLE

STORM SEWER MISCELLANEOUS

STORM SEWER PIPE

STORM SEWER PIPE MISCELLANEOUS

STORM SEWER

RR TELEGRAPH POLE

RR SWITCH

RR GUY POLE

RR SIGNALS WITH OR WITHOUT GATE

RR CROSS BUCK SIGN

RR SIGNAL CONTROLLER CABINET

RR MISCELLANEOUS SYMBOL

RR TRACK CENTERLINE

RAILROAD

WATER SPIGOT

WATER VALVE

WATER MANHOLE

FIRE HYDRANT

WATER METER

WATER WELL SYMBOL

SIZE, MATERIAL, OWNER

WATER LINE

WATER MISCELLANEOUS LINE

WATER

BOULDER UNDER 6FT

GEOLOGY MISC SYMBOL

MINESHAFT SYMBOL

ROCK OUTCROP

BOULDER FIELD OR ROCK OVERHANG

GEOLOGY

Computer File Information	
Creation Date: 07/04/06	Initials: SRJ
Last Modification Date: 07/04/06	Initials: LTA
Full Path: www.dot.state.co.us/DesignSupport/	
Drawing File Name: 100010203.dgn	
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	

Sheet Revisions	
Date:	Comments
(R-X)	
(R-X)	
(R-X)	
(R-X)	

Colorado Department of Transportation

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Project Development Branch SRJ/LTA

STANDARD SYMBOLS

Issued By: Project Development Branch July 04, 2006

STANDARD PLAN NO.

M-100-1

Sheet No. 2 of 3

GAS

PROPANE TANK
 GAS JUNCTION BOX
 GAS VAULT
 GAS LINE MARKER OR AIR VENT
 GAS METER LOW PRESSURE
 GAS METER HIGH PRESSURE
 GAS MISCELLANEOUS
 GAS LIGHT
 GAS VALVE HIGH OR LOW PRESSURE

GAS LINE LOW PRESSURE
 GAS LINE HIGH PRESSURE
 PROPANE GAS LINE
 GAS LINES MISCELLANEOUS

OIL

OIL METER HIGH AND LOW PRESSURE
 OIL VALVE HIGH AND LOW PRESSURE
 OIL MISCELLANEOUS

OIL LINE LOW OR HIGH PRESSURE
 OIL MISCELLANEOUS LINE

MISCELLANEOUS TOPOGRAPHY

GRAVE HEADSTONE SYMBOL
 MAIL DROP BOX
 FLAG POLE
 TRASH BARREL POST
 GRAVE SYMBOL
 RADIO STATION ANTENNA
 MISCELLANEOUS TOPOGRAPHY

CAMPING

CAMPSITE MARKER
 TRAILER ELECTRIC HOOKUP
 TRAILER DUMP STATION
 CAMPFIRE RING
 TRAILER SEWER INLET
 TRAILER WATER HOOKUP
 CAMPSITE GRILL
 CAMPSITE TABLE

LIGHTING

LIGHT STANDARD
 HIGH MAST LIGHT STANDARD
 SPOT OR FLOOD LIGHT

ELECTRICAL

ELECTRICAL PEDESTAL OR PULL BOX
 TRANSMISSION TOWER OR WIND POWERED GENERATOR
 RELOCATED LIGHT STANDARD
 DECORATIVE LIGHT STANDARD
 CATENARY POLE FOUNDATION
 ELECTRICAL MANHOLE
 POWER POLE
 TRANSFORMER ON POLE
 ELECTRICAL OUTLET
 ELECTRICAL MISCELLANEOUS
 GUY WIRE
 ELECTRICAL VAULT OR TRANSFORMER
 GUY POST
 FIRE ALARM BOX

ELECTRICAL UNDERGROUND LINE
 ELECTRICAL OVERHEAD LINE
 ELECTRICAL MISCELLANEOUS LINE

TELEVISION

CABLE TV POLE
 CABLE TV RISER
 COMBINATION POLE-POWER, TELEPHONE
 TV ANTENNA
 TV MISCELLANEOUS
 TV MANHOLE

TV UNDERGROUND CABLE
 TV OVERHEAD CABLE
 TV MISCELLANEOUS CABLE

TELEPHONE

TELEPHONE GUY POLE
 FIBER OPTIC CABLE MARKER
 TELEPHONE MANHOLE
 COMBINATION POLE-POWER
 TELEPHONE MISCELLANEOUS
 COMBINATION GUY POLE-POWER
 TELEPHONE UNDERGROUND CONDUIT OR CABLE
 FIBER OPTICS UNDERGROUND CABLE
 TELEPHONE OVERHEAD LINE
 TELEPHONE MISCELLANEOUS LINE

INTELLIGENT TRANSPORTATION SYSTEM

FIBER MARKER DOME
 FIBER MARKER SLATE
 RWIS - REMOTE WEATHER SENSOR
 VMS-BUTTERFLY
 VMS-GROUND
 VMS-CANTILEVER
 VMS-SIGN BRIDGE
 ITS CONDUIT

TRAFFIC STRIPING

CENTER YELLOW SOLID DOUBLE
 CENTER YELLOW SOLID BROKEN (NO PASS)
 4 INCH WIDE
 8 INCH WIDE
 LANE LINE BROKEN
 LANE DROP
 CHANNELIZING OR EDGE LINE
 4 INCH WIDE
 8 INCH WIDE
 DOTTED BROKEN
 STOP LINE

TRAFFIC CONTROL

TRAVEL DIRECTION
 BARRIER LIGHT
 FLAGGER
 DELINEATOR-TYPE I
 SEQUENCING ARROW PANEL
 FLASHING BEACON
 DELINEATOR-TYPE II
 DELINEATOR-TYPE III
 BUTTERFLY SIGN
 HALF BUTTERFLY SIGN
 IMPACT ATTENUATOR
 SIGN ASSEMBLY
 SINGLE POST SIGN
 DOUBLE POST SIGN
 SIGN-WITH FLASHING BEACON
 ROAD CLOSURE GATE BEACON SYMBOL
 ROAD CLOSURE GATE SYMBOL
 DEER REFLECTORS
 TRAFFIC CONTROL MISCELLANEOUS DEVICE
 TRAFFIC CONTROL DEVICE

TRAFFIC SIGNAL

SIGNAL SPAN WIRE POLE
 DOUBLE MAST ARM POLE
 LUMINAIRE
 SIGNAL FACE
 SIGNAL POLE WITH MAST ARM
 SIGNAL FACE WITH BACKPLATE
 SIGNAL CONTROLLER AND CABINET (4 FT)
 TELEMETRY ANTENNA
 PULL BOX
 MICRODETECTOR
 VIDEO DETECTION CAMERA
 FIRE PREEMPTION UNIT AND TIMER
 PEDESTRIAN SIGNAL FACE
 PEDESTRIAN PUSH BUTTON
 PEDESTAL POLE
 PULL BOX SPECIAL
 TRAFFIC CONDUIT

Computer File Information

Creation Date: 07/04/06	Initials: SRJ
Last Modification Date: 07/04/06	Initials: LTA
Full Path: www.dot.state.co.us/DesignSupport/	
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Sheet Revisions

Date:	Comments
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(R-X)	
(R-X)	
(R-X)	

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Project Development Branch SRJ/LTA

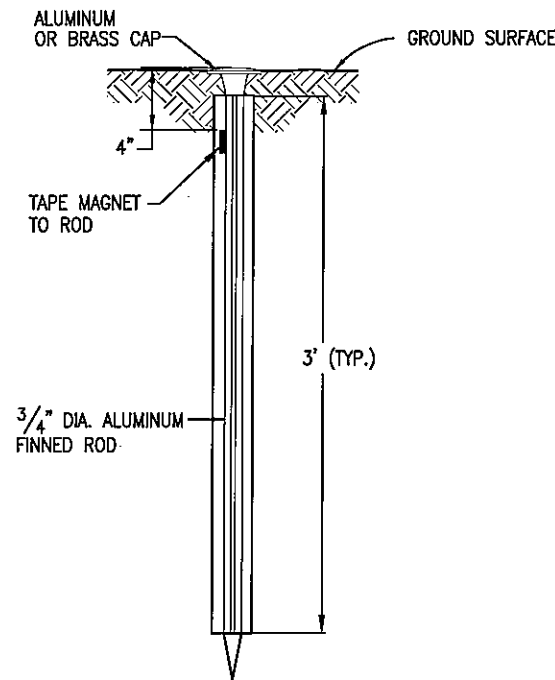
STANDARD SYMBOLS

Issued By: Project Development Branch on July 04, 2006

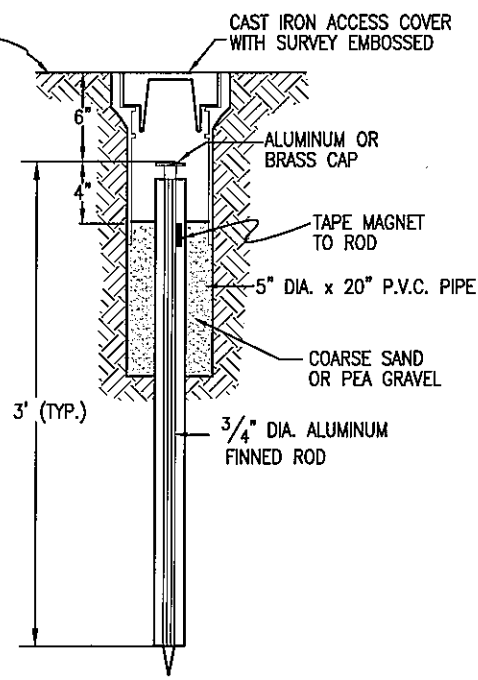
STANDARD PLAN NO.

M-100-1

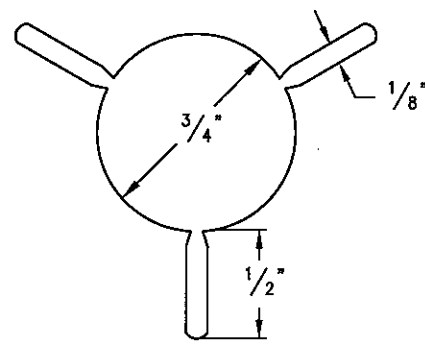
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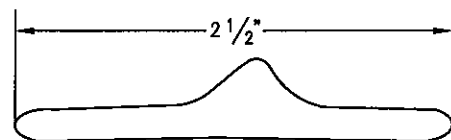
TYPE 1 MONUMENT



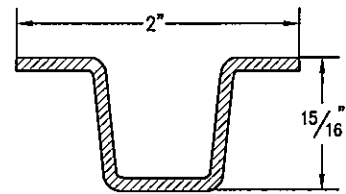
TYPE 1A MONUMENT
INCLUDES MONUMENT BOX



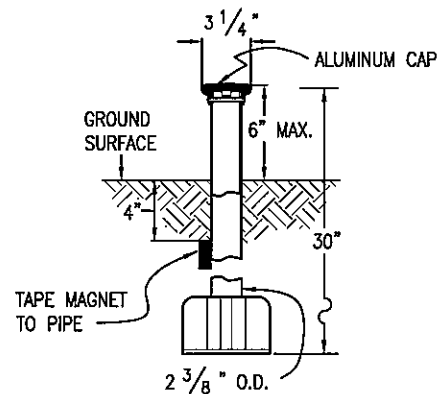
SECTION A-A



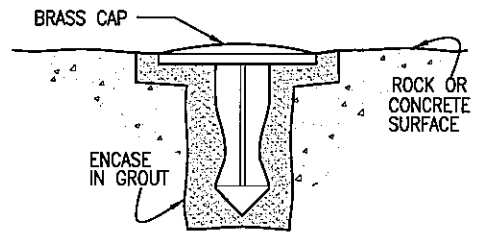
SECTION B-B



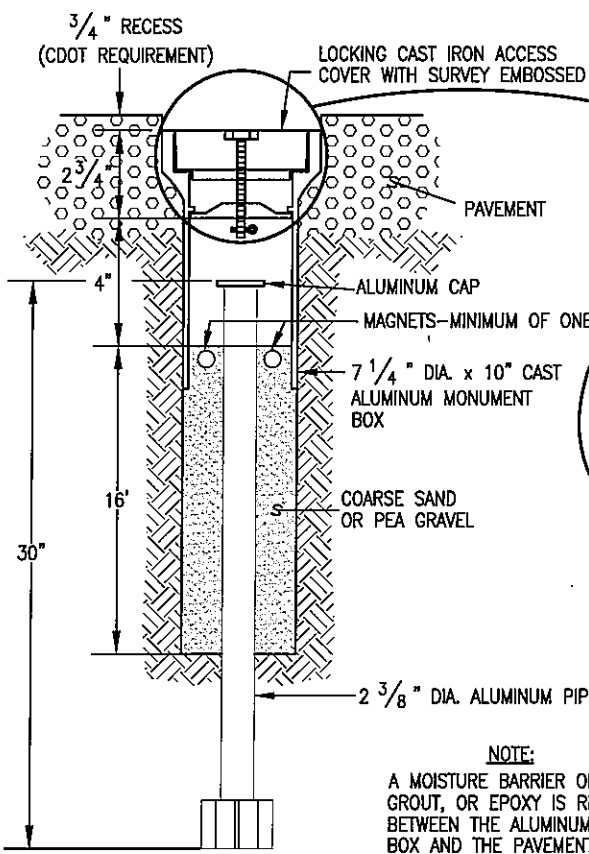
DELINEATOR POST
SECTION C-C



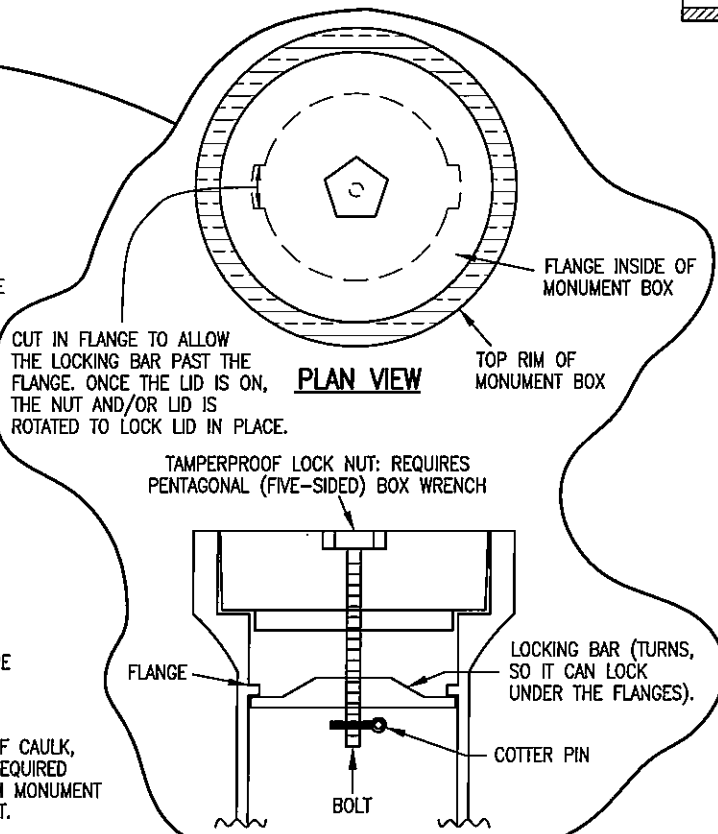
TYPE 3 MONUMENT



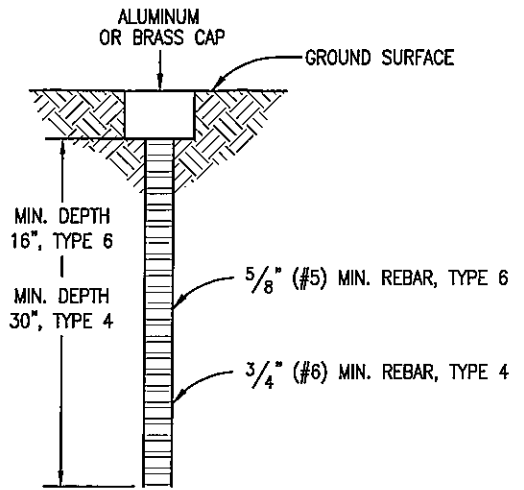
TYPE 5 MONUMENT
ALUMINUM CAP AND TYPE 5(S)
DETAILS SHOWN ON SHEET 2



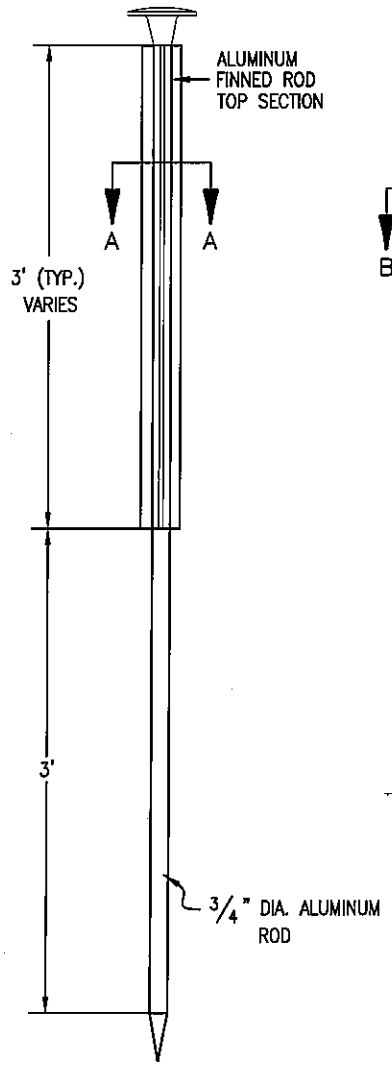
TYPE 3A MONUMENT
ROADWAY INSTALLATION
INCLUDES MONUMENT BOX



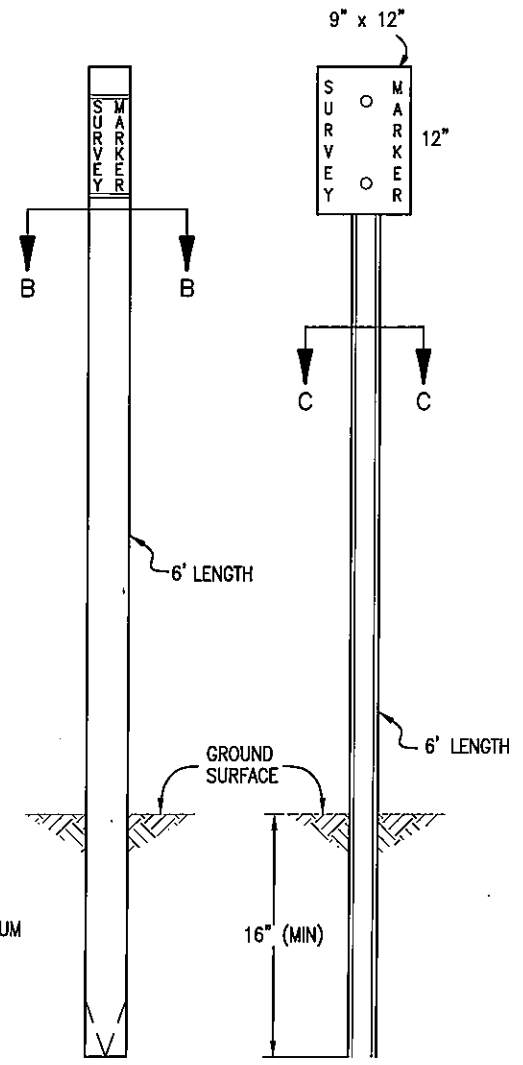
LOCKING CAST IRON ACCESS COVER



TYPE 4 AND TYPE 6 MONUMENT



TYPE 2 MONUMENT
TYPE 2A INCLUDES MONUMENT BOX



WITNESS POSTS

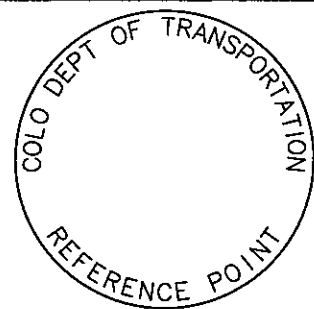
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Last Modification Date: 07/04/06	Initials: LTA
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Sheet Revisions	
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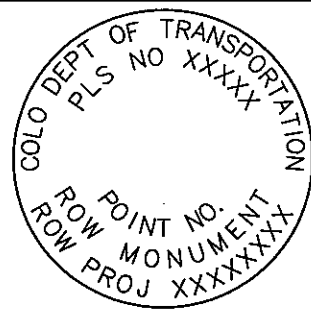
Colorado Department of Transportation
 4201 East Arkansas Avenue
 Denver, Colorado 80222
 Phone: (303) 757-9083
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 Project Development Branch SRJ/LTA

SURVEY MONUMENTS
 Issued By: Project Development Branch on July 04, 2006

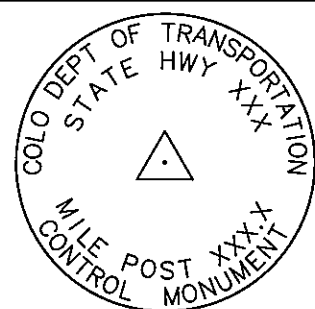
STANDARD PLAN NO.
 M-629-1
 Sheet No. 1 of 2



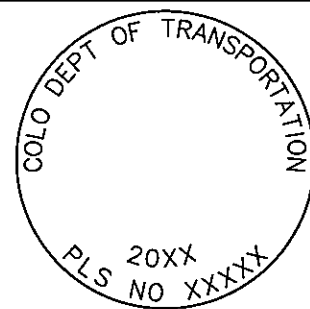
REFERENCE MONUMENT CAP



ROW MONUMENT CAP



CONTROL MONUMENT CAP

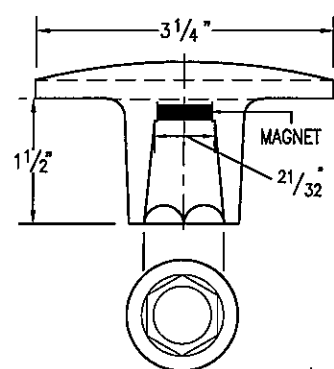


ALIQUOT CORNER MONUMENT CAP

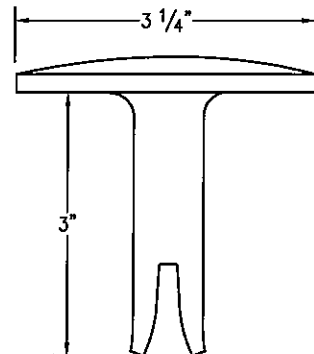


ALUMINUM CAP

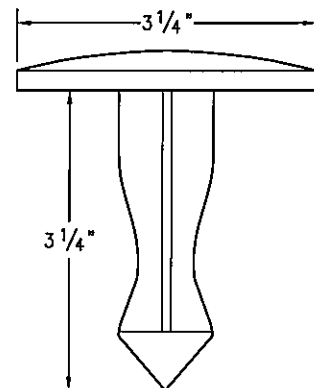
NOTE: A BLANK CAP MAY BE SUBSTITUTED IF THE APPROPRIATE CAP SHOWN ABOVE IS NOT AVAILABLE. IF A BLANK CAP IS USED, ALL INFORMATION NORMALLY INCLUDED ON THE APPROPRIATE STANDARD CAP, SHALL BE STAMPED ON THE BLANK CAP ALONG WITH SPECIFIC PROJECT INFORMATION SUCH AS PROJECT NO., DATE, POINT NO., ETC..



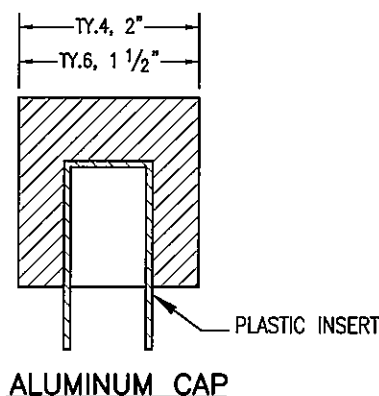
ALUMINUM CAP
USED WITH ALUMINUM ROD



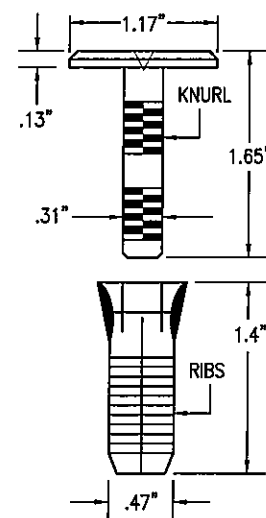
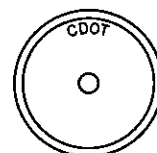
ALUMINUM CAP TYPE 5
FOR PLACING IN EXISTING CONCRETE OR ROCK



BRASS CAP TYPE 5
FOR PLACING IN EXISTING CONCRETE OR ROCK



ALUMINUM CAP



COPPER ALLOY CAP TYPE 5(S)
FOR PLACING IN EXISTING SIDEWALK, CURB, OR GUTTER

ALL MONUMENTATION MATERIALS WILL BE FURNISHED BY CDOT
THE MONUMENT TYPE SHALL MEET THE MINIMUM STANDARDS AS DETERMINED BY THE COLORADO STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS RULES (STATE BOARD RULES).
THE CDOT SURVEY COORDINATOR SHALL APPROVE ALL EXCEPTIONS FOR STAMPING MONUMENTS DIFFERING FROM THE STANDARDS.

TYPE 1 AND TYPE 1A ALUMINUM FINNED ROD MONUMENTS
THIS MONUMENT SHALL BE USED FOR ROW OR REFERENCE MONUMENTS OR MAY BE USED FOR AN ALIQUOT CORNER MONUMENT. WHEN USED AS AN ALIQUOT CORNER MONUMENT, INSTALLATION AND RECORD FILING REQUIREMENTS SHALL BE AS STATED FOR TYPE 3 AND TYPE 3A MONUMENTS.
MONUMENTS SHALL BE INSTALLED BY ATTACHING THE PROPER SIZE TIP TO ONE END OF A SECTION OF FINNED ROD, AND A 3 IN. LONG X 3/4 IN. DIA. STAINLESS STEEL ADAPTER TO THE OTHER END. THE DRIVER IS THEN PLACED OVER THE STAINLESS STEEL ADAPTER FOR THE HAMMER TO CONTACT. TYPE 1 MONUMENTS SHALL USE A MINIMUM 3 FT. SECTION OF FINNED ROD. WHEN SUBSURFACE ROCK OR CONCRETE IS ENCOUNTERED LESS THAN 3 FT. BELOW THE GROUND SURFACE, THE ROD SHALL BE EMBEDDED IN THE ROCK OR IN CONCRETE AT LEAST 6 IN. AND GROUTED IN PLACE. THE ROD MAY BE SHORTENED TO ACCOMMODATE THE CONDITIONS.
WHEN UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, ADDITIONAL SECTIONS OF ROD SHALL BE ADDED TO ACHIEVE STABILITY. HORIZONTAL AND VERTICAL STABILITY ARE REQUIRED.
TYPE 1A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 2 AND TYPE 2A ALUMINUM FINNED ROD MONUMENTS
THIS MONUMENT SHALL BE USED FOR HORIZONTAL AND VERTICAL CONTROL MONUMENTS. WHEN UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, ADDITIONAL SECTIONS OF ROD SHALL BE ADDED TO ACHIEVE STABILITY. HORIZONTAL AND VERTICAL STABILITY ARE REQUIRED. IN MOST SOIL CONDITIONS THE TYPE 2 MONUMENT IS EMBEDDED 6 FT. INTO THE GROUND.
THE MONUMENT SHALL BE INSTALLED BY FIRST ATTACHING THE PROPER SIZE TIP TO A 3 FT. LONG X 3/4 IN. DIA. ROD, THEN DRIVING THE ROD AT LEAST 30 IN. INTO THE GROUND. ADDITIONAL 3 FT. LONG X 3/4 IN. FINNED ROD SECTIONS SHALL BE ADDED AND DRIVEN FLUSH WITH THE GROUND UNTIL THE MONUMENT IS IN A STABLE POSITION. THE FINNED ROD SECTIONS SHALL BE BENT OVER USING PLIERS TO ACCOMMODATE INSTALLING THE CAP. THE CAP IS FIRMLY SEATED ONTO THE LAST FINNED SECTION OF ROD USING A DEAD BLOW SLEDGE HAMMER.
TYPE 2A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 3 AND TYPE 3A ALUMINUM PIPE MONUMENTS
THIS MONUMENT SHALL BE USED FOR AN ALIQUOT CORNER MONUMENT. THE INSTALLATION OF THIS MONUMENT AND RECORD FILING SHALL BE DONE IN ACCORDANCE WITH THE STATE BOARD RULES. ALSO REFER TO THE CDOT SURVEY MANUAL AND THE BUREAU OF LAND MANAGEMENT REQUIREMENTS FOR MONUMENT INSTALLATION. THE LAND SURVEYOR'S LICENSE NUMBER AND THE YEAR SHALL BE STAMPED ON THE CAP.
TYPE 3A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 4 ALUMINUM MONUMENT
THIS MONUMENT MAY BE INSTALLED IN LIEU OF REPLACING THE ENTIRE MONUMENT WHEN REBAR IS IN PLACE AT AN ALIQUOT CORNER LOCATION. REFER TO THE STATE BOARD RULES. A MINIMUM 2 IN. DIA. CAP SHALL BE USED ON 3/4 IN. (#6) REBAR.

TYPE 5 BRASS/ALUMINUM CAP MONUMENT
THIS MONUMENT MAY BE INSTALLED IN LIEU OF ALL OTHER CDOT MONUMENTS, WHEN THE POSITION IS LOCATED IN CONCRETE OR STABLE ROCK FORMATION.

TYPE 5(S) COPPER ALLOY CAP MONUMENT - SMALL
THIS MONUMENT MAY BE INSTALLED IN LIEU OF A TYPE 5 MONUMENT, WHEN THE POSITION IS LOCATED IN A CONCRETE SIDEWALK, CURB OR GUTTER, OR WHEN SETTING A TYPE 5 WOULD COMPROMISE THE INTEGRITY OF THE RECEIVING STRUCTURE.

STAMPING REQUIREMENTS:

- "RP", WHEN THE APPLICATION IS A REFERENCE POINT.
- "ROW", POINT NUMBER, "LS", AND REGISTRATION NUMBER WHEN THE APPLICATION IS A ROW POINT.
- "CP" AND A UNIQUE IDENTIFIER PROVIDED BY THE REGION SURVEY COORDINATOR, WHEN THE APPLICATION IS A CONTROL POINT.
- "PE", POINT NUMBER, "LS", AND REGISTRATION NUMBER, WHEN THE APPLICATION IS A PERMANENT EASEMENT POINT.
- "PP" AND POINT NUMBER, WHEN THE APPLICATION IS A PROJECT POINT.

TYPE 6 ALUMINUM MONUMENT
THIS MONUMENT SHALL BE USED FOR PERMANENT EASEMENTS, PROJECT BENCH MARKS, PROJECT POINTS, AND REFERENCES. AN ALUMINUM CAP WITH A MINIMUM DIAMETER OF 1 1/2 IN., SHALL BE USED ON 5/8 IN. (#5) MINIMUM REBAR.

*** WITNESS POSTS**
THE WITNESS POST WILL BE SUPPLIED BY CDOT AND INSTALLATION SHALL BE INCLUDED IN THE WORK. IT SHALL BE DRIVEN WITHIN 1 FT. OF THE MONUMENT WHEN POSSIBLE. A DELINEATOR POST WITH A 9 IN. X 12 IN. METAL SIGN PANEL MAY BE USED IN LIEU OF THE PLASTIC POST. THIS POST SHALL CONFORM TO STANDARD PLAN S-612-1. A REQUIRED WITNESS POST MAY BE OMITTED WITH THE APPROVAL OF THE ENGINEER IF THE WITNESS POST LOCATION IS WITHIN A TRAVELED WAY, DRIVEWAY, OR ACCESS OPENING.

MONUMENT APPLICATION

CAP TYPE	MONUMENT TYPE									
	1	1A	2	2A	3	3A	4	5	5(S)	6
REFERENCE	X	X						X	X	X
ROW	X	X						X	X	
CONTROL			X	X				X	X	
ALIQUOT CORNER	X	X			X	X	X	X		
PERMANENT EASEMENT								X	X	X
PROJECT POINTS								X	X	X
WITNESS POST* (REQUIRED)	X		X	X	X			X		

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SURVEY MONUMENTS
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