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Region 2

JPE

[illegible][illegible][illegible]

Project Control Diagram

Plan Sheet

Project Number: FBR 069A-030

Project Location: SH 69 North of Gardner
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Mile Post 28.6

Project Code:	Last Mod. Date	Subset	Sheet No.
19055	04-30-13	3a of 6	3a

State Highway 69 MP 27.50 to 28.75
Section 10
Township 26 South, Range 70 West
of the 6th Principal Meridian
County of Huerfano

Ⓐ L 94 Located at MP 32.98
N=421675.97
E=62027.33
EL=7536.41



⊙ B 94 Located NE of Gardner
N=406899.28
E=102686.38
EL=6950.11

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Project Control Diagram

Coordinate Tables

Project Number: FBR 069A-030

Project Location: SH 69 North of Gardner
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Mile Post 28.6

Project Code:	Last Mod. Date	Subset	Sheet No.
19055	04-30-13	3b of 6	3b

Point No.	Geodetic Coordinates NAD-83(XX) (CHARN)		Elip Height (NAVD88) (ft)	Ortho Height (ft)	Grid Scale Factor	NAD 83 Zone 0503		Description
	Latitude(N)	Longitude(W)				SP Northing(ft)	SP Easting(ft)	
B 94	N37°46'55.54119"	W105°08'56.23033"	6897.144	6950.111	1.000398037	1406339.50	3101451.88	NGS Monument
L 94	N37°49'22.78168"	W105°17'22.09498"	7485.071	7536.412	1.000398037	1421110.31	3060809.02	NGS Monument

Point No.	Geodetic Coordinates NAD-83 (XX) (CHARN)		Elip Height (NAVD88) (ft)	Ortho Height (ft)	Grid Scale Factor	NAD 83 (XX) Zone 8503		Description
	Latitude (N)	Longitude (W)				SP Northing (ft)	SP Easting (ft)	
2750	N37°47'40.10266"	W105°11'50.21097"	7071.887	7124.325	1.000398037	1410797.845	3087470.652	CDOT TYPE II MONUMENT
2770	N37°47'45.10997"	W105°11'56.20080"	7080.549	7132.959	1.000398037	1411302.762	3086988.254	CDOT TYPE II MONUMENT
2790	N37°47'49.64319"	W105°12'03.53543"	7096.610	7148.990	1.000398037	1411759.390	3086398.094	CDOT TYPE II MONUMENT
2847	N37°48'04.87237"	W105°12'44.27937"	7198.621	7250.867	1.000398037	1413289.496	3083123.212	CDOT TYPE II MONUMENT
2875	N37°48'09.18086"	W105°13'01.20995"	7217.254	7269.450	1.000398037	1413721.134	3081763.109	CDOT TYPE II MONUMENT

PROJECT COORDINATE TABLE				
Point No.	Project Coordinates		Elev(ft) (NAVD88)	Description
	Northing(ft)	Easting(ft)		
2750	411359.40	88699.58	7124.33	CDOT Type II Monument
2770	411864.51	88216.99	7132.96	CDOT Type II Monument
2790	412321.32	87626.60	7148.99	CDOT Type II Monument
2847	413852.04	84350.41	7250.87	CDOT Type II Monument
2875	414283.85	82989.77	7269.45	CDOT Type II Monument
B 94	406899.28	102686.38	6950.11	NGS MONUMENT
L 94	421675.97	62027.33	7536.41	NGS MONUMENT



Typical Control Monument Cap
Not to Scale

Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of S64°57'25"E from CM2847-MP28.47 to CM2790-MP 27.90. Both monuments are CDDT 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 Bench Mark B 94 1935, PID: HK0176, standard bench mark disk set on top of a concrete monument, with a NAVD 88 elevation of 6950.11 ft. B 94 is a second order benchmark.

COORDINATE DATUM: Project coordinates are modified Colorado State Plane South Zone NAD '83 coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.000398037. The resulting project coordinates are truncated by 1,000,000ft in the Northing and 3,000,000ft in the Easting after converting from state plane coordinates to project coordinates. The CHARN is based on the NAD '83 datum.

Project Coordinates Northing US Survey Feet = (State Plane Coordinate Northing * 1.000398037 - 1,000,000).

Project Coordinates Easting US Survey Feet = (State Plane Coordinate Easting
* 1.000398037 - 3,000,000).

General Notes:

1. This Project Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
2. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDDT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.
3. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2006 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.

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.


SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, Jeffrey Fickelman, 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 measurements it represents were performed under my responsible charge 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.

PLS No. 29034



Colorado Department of Transportation



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Region 2

JPE

Sheet Revisions

Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Sheet Revisions

Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Sheet Revisions

Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Land Survey Control Diagram

Plan Sheet

Project Number: FBR 069A-030

Project Location: SH 69 North of Gardner

Mile Post 28.6

Project Code: 19055

Last Mod. Date: 4-25-13

Subset: 4.XX of 4.XX

Sheet No.: RW 4.XX

DEPARTMENT OF TRANSPORTATION

STATE OF COLORADO

LAND SURVEY CONTROL DIAGRAM

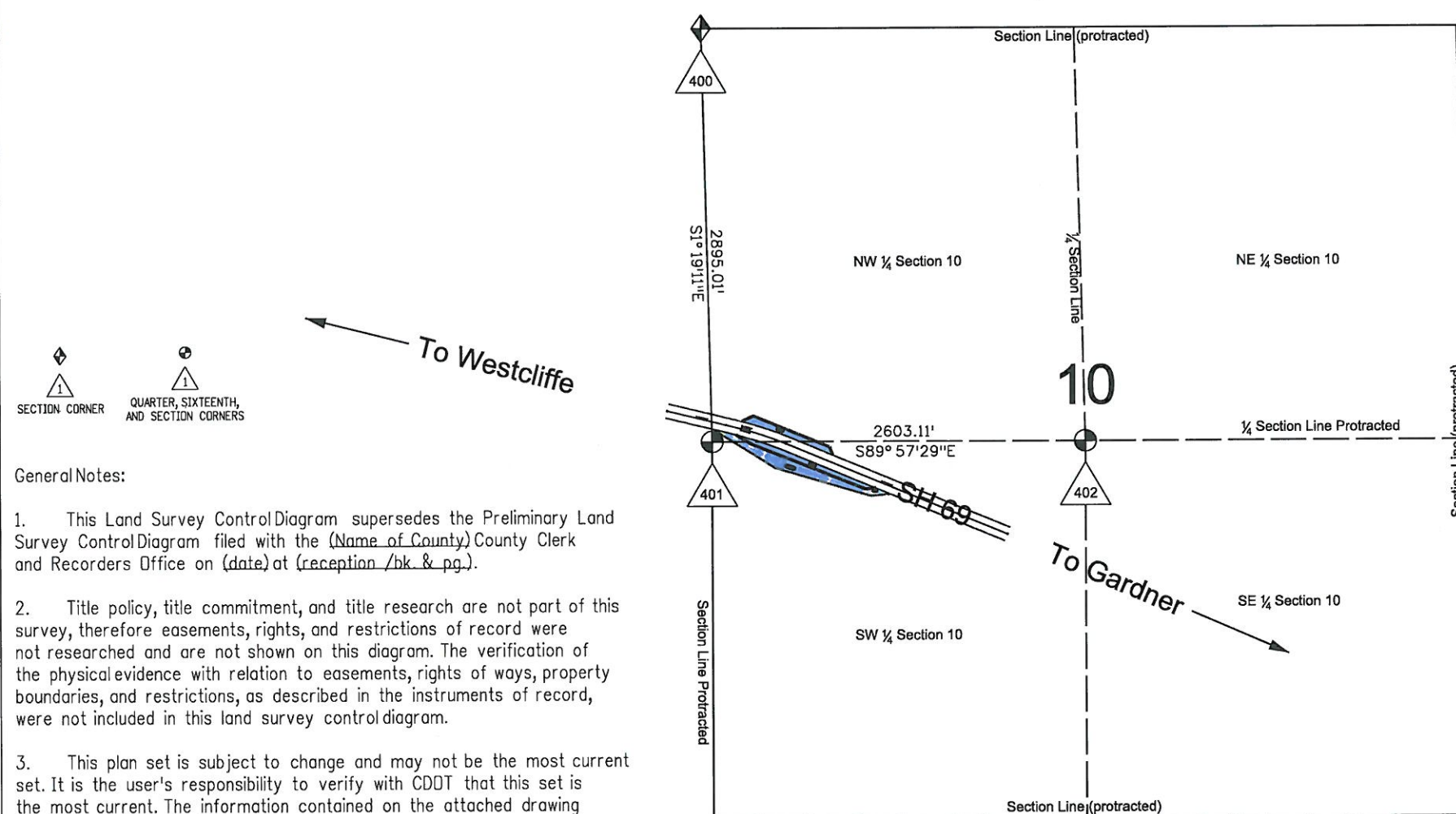
State Highway 69 MP 27.50 to 28.75

Section 10

Township 26 South, Range 70 West

of the 6th Principal Meridian

County of Huerfano



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Right of Way Plans

Monumentation Sheet

Project Number: FBR 069A-030

Project Location: SH 69 North of Gardner

Mile Post 28.6

Project Code	Last Mod. Date	Subset	Sheet No.
19055	4-23-13	5 of 6	5



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

Point No.	Northing(ft)	Easting(ft)	Description	Station	Offset
100	413879.35	84065.57	CDOT Type I Monument	61+83.6	50.0ft L
103	414252.98	83095.29	CDOT Type I Monument	72+34.0	50.0ft L
104	414187.23	83203.65	CDOT Type I Monument	71+06.8	83.9ft L
105	413870.50	84003.54	CDOT Type I Monument	62+38.5	82.4ft L
107	414107.81	83772.06	CDOT Type I Monument	65+43.6	50.0ft R
108	414167.31	83749.32	CDOT Type I Monument	65+86.9	94.7ft R
109	414385.23	83215.04	CDOT Type I Monument	71+52.8	108.9ft R
110	414347.11	83130.23	CDOT Type I Monument	72+21.5	50.0ft R



TABULATION OF TEMPORARY EASEMENT POINTS TO BE STAKED

Point No.	Northing(ft)	Easting(ft)	Description	Station	Offset
114	414294.07	82931.30			
115	414020.98	83365.20			
116	413821.83	84040.90			
117	413834.02	84175.42			

General Notes:

- All centerline and offset stationing may not represent the centerline as constructed in the field.
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QUANTITY OF MONUMENTS TO BE SET

CAP TYPE	MONUMENT TYPE									
	1	1A	2	2A	3	3A	4	5	5(S)	6
REFERENCE										
ROW	8									
CONTROL										
ALIQUOT CORNER										
PERMANENT EASEMENT										
PROJECT POINTS										
WITNESS POST (REQUIRED)										

SURVEYOR STATEMENT (R.O.W. MONUMENTS)

I, Jeffrey Fickelman, 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. 29034

