

Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials

<b>HGL</b> Engineering & Surveying, LLC 9570 KINGSTON CT., SUITE 310 ENGLEWOOD, CO. 80112 P: (303) 773-1605 F: (303) 773-3297			
Land Survey Control Diagram Title Sheet			
Project Number: .			
Project Location: I-76/UPRR			
Project Code:	Last Mod. Date:	Subset	Sheet No.
.	10-23-2013	4.01 of 4.03	4.01

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

## LAND SURVEY CONTROL DIAGRAM

### INTERSTATE 76 AT UPRR CROSSING W 1/2 OF SEC. 15 AND E 1/2 OF SEC. 16, T2S, R67W, 6th PM ADAMS COUNTY HENDERSON, CO

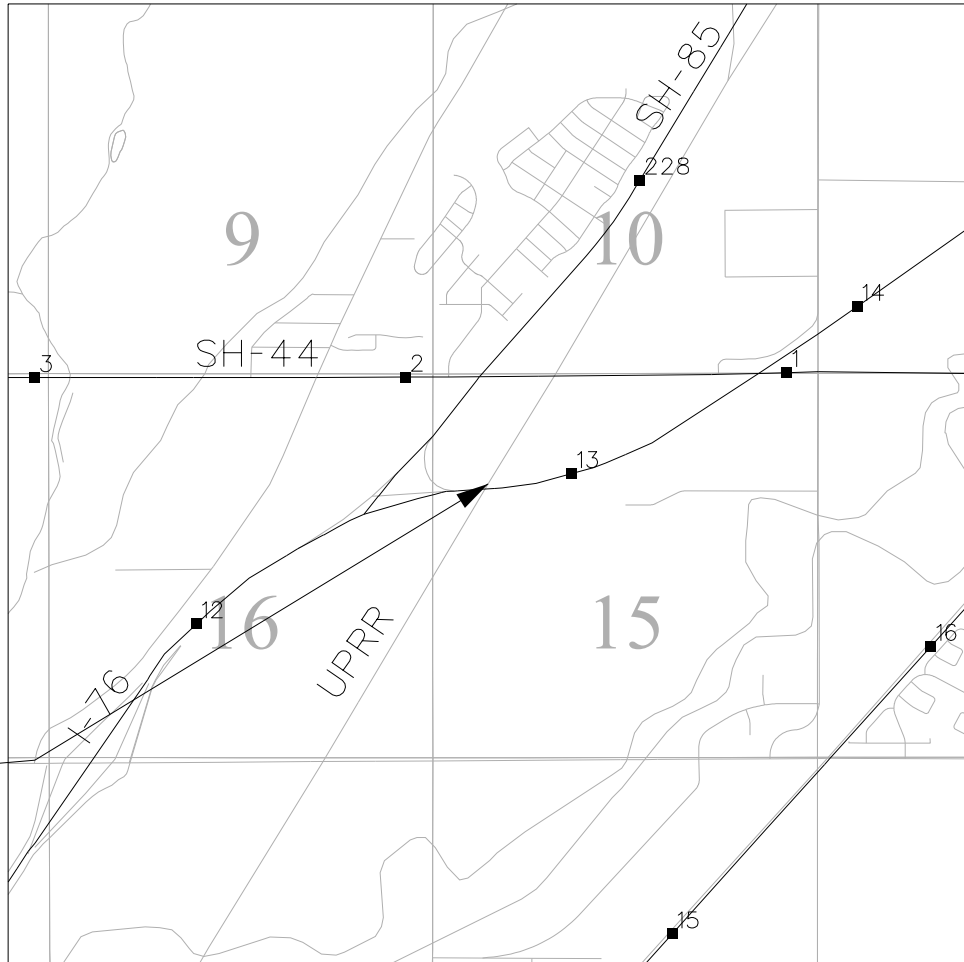
SHEET NO.	INDEX OF SHEETS
4.01	(1) Title Sheet
4.02	(1) Monument Coordinate Table
4.03	(1) Plan Sheet(s)
(3) Total Sheets	

FILING CERTIFICATION: DAY OF \_\_\_\_\_, 20\_\_\_\_, AT \_\_\_\_\_ M.,  
 DEPOSITED THIS \_\_\_\_\_ OF THE COUNTY LAND SURVEYS/RIGHT OF WAY  
 SURVEYS AT PAGE \_\_\_\_\_, RECEPTION NUMBER \_\_\_\_\_  
 SIGNED \_\_\_\_\_ DEPT. \_\_\_\_\_  
 10/24/2013 dekberg 11:44:12 AM H:\112425.00 I-76 UPRR East of US-85\12425\ROW\_Survey\Drawings\Control Diagrams\4.01 LSCD Title Sheet.dgn

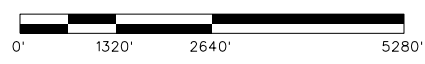
**General Notes:**

- This Land Survey Control Diagram is not a boundary survey of the adjoining property and is prepared for Colorado Department of Transportation purposes only.
- Title policy, title commitment, and title research are not part of this survey, therefore easements, rights, and restrictions of record were not researched and are not shown on this diagram. 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 land survey control diagram.
- This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDOT 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.
- Horizontal Control Tolerances of Project Control points meet the precision requirements of CDOT Type A Control. (+/- 0.07', 95% certainty)
- Elevations are NAVD'88 First Order Class II and established by differential leveling. Elevations were run to an accuracy of +/-0.035 ft. times the square root of the distance traversed, in miles.
- Dates of field work: May 2011 - October 2012

PROJECT AREA



PROJECT LOCATION MAP



**Basis of Elevations:** Project elevations are based on NGS Control Point "H260", PID: KK0399, a standard US C & GS disk set in the top of a concrete monument, with a NAVD 88 elevation of 5079.07 ft. H260 is a first order class II benchmark.

**COORDINATE DATUM:** All horizontal coordinates shown on this Land Survey Control Diagram are project modified State Plane Coordinates, NAD 83 (1992), Colorado Central Zone. Survey Control (horizontal) is based on coordinate information on section corners and 1/4 corners as shown on plan titled "CONTROL DIAGRAM, CITY OF COMMERCE CITY" by JR Engineering, dated 08-04-99, and recorded at Reception Number 2009-146 in the Adams County, Colorado Clerk and Recorder's office. Project modified coordinates were obtained by using the State Plane Coordinate value shown on said plans and dividing by the provided combined scale factor of 0.99979199.

To convert from the modified project coordinates shown on this Land Survey Control Diagram to State Plane Coordinates, NAD 83 (1992), multiply the modified coordinate value by the combined scale factor of 0.99979199

**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.

<p style="text-align: center;">SURVEYOR STATEMENT (LAND SURVEY CONTROL DIAGRAM)</p> <p><i>I, Martin G. Brauns, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Land Survey 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.</i></p> <p>PLS No. 27926</p>	
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Land Survey Control Diagram			
Monument Coordinate Tables			
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.	10-23-2013	4.01 to 4.03	4.02

**FOUND ALIQUOT MONUMENT TABLE**

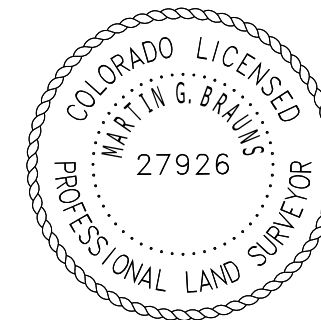
Point No.	Northing(ft)	Easting(ft)	Elevation (ft) NAVD 88	Description
2086_GPS	1748270.628	3170840.146	5072.06	N 1/4 COR SEC 16-T2S-R67W (3-1/4" CAP PLS 23516)
2047_GPS	1748288.978	3173480.042	5075.87	NE COR SEC 16-T2S-R67W (3-1/4" CAP PLS 23516)
2044_GPS	1748306.530	3176124.425	5083.34	N 1/4 COR SEC 15-T2S-R67W (3-1/4" CAP PLS 23516)
2053_GPS	1743012.987	3176145.112	5110.00	S 1/4 COR SEC 15-T2S-R67W (3-1/4" CAP PLS 24673)
2087_GPS	1745643.822	3173489.666	5076.36	E 1/4 COR SEC 16-T2S-R67W (3-1/4" CAP PLS 6973)
2112_GPS	1743000.682	3173502.094	5098.04	SE COR SEC 16-T2S-R67W (3-1/4" CAP PLS 17468)
2111_GPS	1742985.878	3170861.083	5096.22	S 1/4 COR SEC 16-T2S-R67W (3-1/4" CAP PLS 17488)
2088_GPS	1745634.798	3170848.658	5084.32	C 1/4 COR SEC 16-T2S-R67W (3-1/4" CAP PLS 6973)

**PROJECT CONTROL COORDINATE TABLE - NGS**

Point No.	Northing(ft)	Easting(ft)	Elevation (ft) NAVD 88	Description
H 260_GPS	1748439.246	3175143.282	5079.07	US C & GS CAP
J 260_GPS	1752500.521	3177468.221	5075.56	US C & GS CAP
SPR 18_GPS	1748272.287	3168340.130	5054.89	UD & FCD CAP
5090_GPS	1743039.260	3171836.385	5094.85	USGS CAP
B 457_GPS	1759132.762	3197868.383	5104.16	NGS CAP

**PROJECT CONTROL COORDINATE TABLE - SET IN FIELD**

Point No.	Northing(ft)	Easting(ft)	Elevation (ft) NAVD 88	Description
100	1748453.892	3173745.089	5074.852	SET 2" ALUM. CAP ON #5 REBAR
101	1747013.354	3175480.700	5088.046	SET MAG. NAIL IN ASPHALT
102	1746931.032	3174887.704	5080.419	SET 2" ALUM. CAP ON #5 REBAR
103	1746768.556	3174267.445	5105.655	SET MAG. NAIL IN ASPHALT
104	1746869.048	3174193.774	5078.902	SET 2" ALUM. CAP ON #5 REBAR
105	1747545.296	3174646.748	5075.813	SET 2" ALUM. CAP ON #5 REBAR
106	1748006.101	3174795.706	5078.053	SET 2" ALUM. CAP ON #5 REBAR
107	1747294.733	3174372.766	5077.489	SET 2" ALUM. CAP ON #5 REBAR
108	1746746.238	3173985.648	5108.184	SET 2" ALUM. CAP ON #5 REBAR
109	1746807.346	3173485.108	5102.179	SET 2" ALUM. CAP ON #5 REBAR
110	1747246.972	3173301.915	5076.166	SET MAG. NAIL IN ASPHALT
111	1746760.898	3172860.721	5076.804	SET 2" ALUM. CAP ON #5 REBAR
112	1746669.343	3173094.271	5106.157	SET MAG. NAIL IN ASPHALT
113	1746595.127	3172767.601	5102.759	SET 2" ALUM. CAP ON #5 REBAR
114	1746326.753	3172412.184	5079.129	SET 2" ALUM. CAP ON #5 REBAR
115	1746515.469	3173085.363	5099.156	SET 2" ALUM. CAP ON #5 REBAR
116	1746605.923	3173646.394	5106.571	SET 2" ALUM. CAP ON #5 REBAR
117	1746534.365	3173918.413	5078.724	SET 2" ALUM. CAP ON #5 REBAR
118	1746194.870	3173632.161	5082.816	SET 2" ALUM. CAP ON #5 REBAR
119	1746649.602	3174131.981	5107.145	SET 2" ALUM. CAP ON #5 REBAR
120	1746752.006	3174901.424	5093.210	SET 2" ALUM. CAP ON #5 REBAR
121	1746984.564	3175740.029	5089.902	SET 2" ALUM. CAP ON #5 REBAR





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