

Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials
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Right of Way Plans Title Sheet			
Project Number: NHPP R 500-173			
Project Location: SH 15 & SECOND AVE. INTERSECTION			
TOWN OF MONTE VISTA			
Project Code	Last Mod. Date	Subset	Sheet No.
20740	11/27/18	1.01 of 1.01	1.01

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

RIGHT OF WAY PLANS OF FEDERAL AID PROJECT NO. NHPP R 500-173 STATE HIGHWAY No. 15 RIO GRANDE COUNTY

Located in:
Section 36, T 39 N, R 7 E,
Section 31, T 39 N, R 8 E,
of the N.M.P.M.
 R.O.W. Length of Project (SH 15) = 0.08 Miles

SHEET NO.	INDEX OF SHEETS
1.01	(1) Title Sheet
3.01-3.03	(3) Project Control Diagram
4.01-4.03	(3) Land Survey Control Diagram
5.01	(1) Monumentation Sheets
7.01	(1) Plan Sheets
(9) Total Sheets	

Scales of Original 11"x17" Drawings
 ROW Plan Sheets 1"=60'
 LSCD Plan Sheet 1"=200'

Basis of Bearings: Bearings used in the calculations of coordinates are based on grid bearing of S 88°12'12" E from M.P. 215.50 to M.P. 215.85, both monuments being CDOT Type 5s Monuments. The survey data was obtained from a Global Positioning System (GPS) based on the National Spatial Reference System (NSRS).

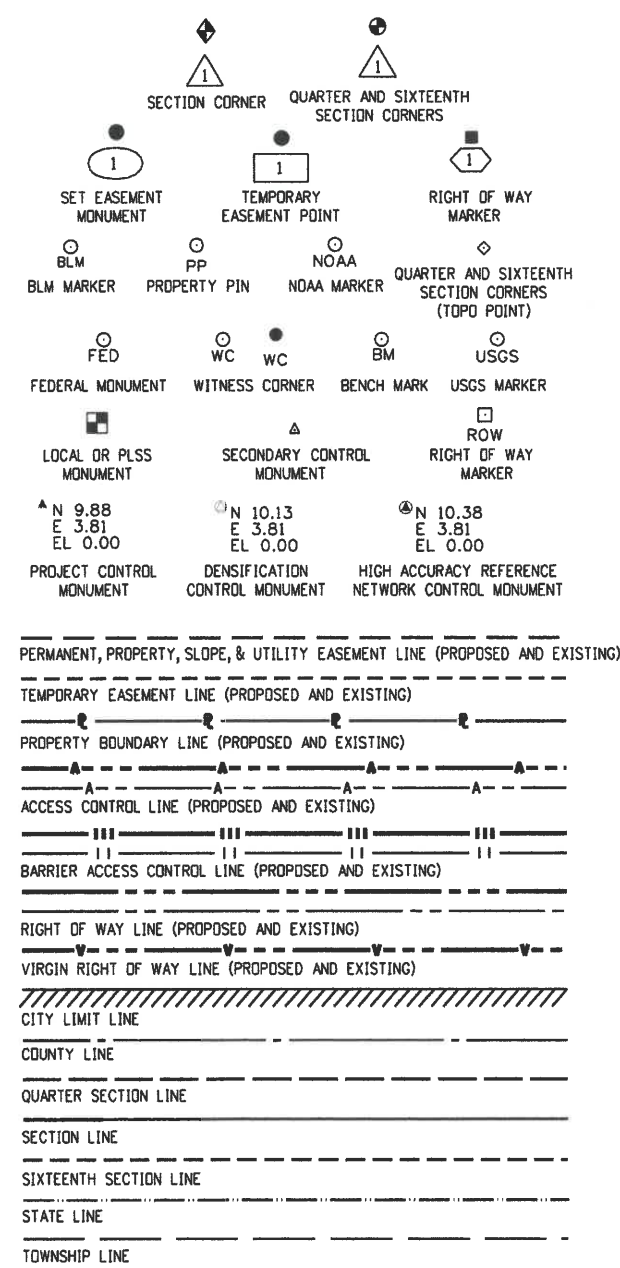
1. This Right-of-Way Plan is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
2. No title information was researched or supplied for this project.
3. This plan set is subject to change and may not be the most current set. It 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.
4. The existing Right-of-Way is a retracement of the original platted streets for the Town of Monte Vista which is also State Highway 15.
5. The initial survey for the control, topography and boundary evidence was conducted in December of 2015 and is reflected by the information shown hereon. Any changes in conditions currently may be because of recent construction activities.

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 (ROW PLAN)

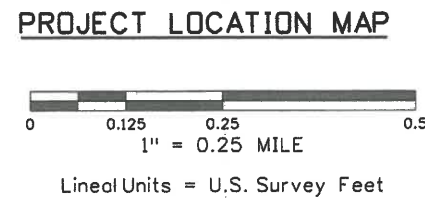
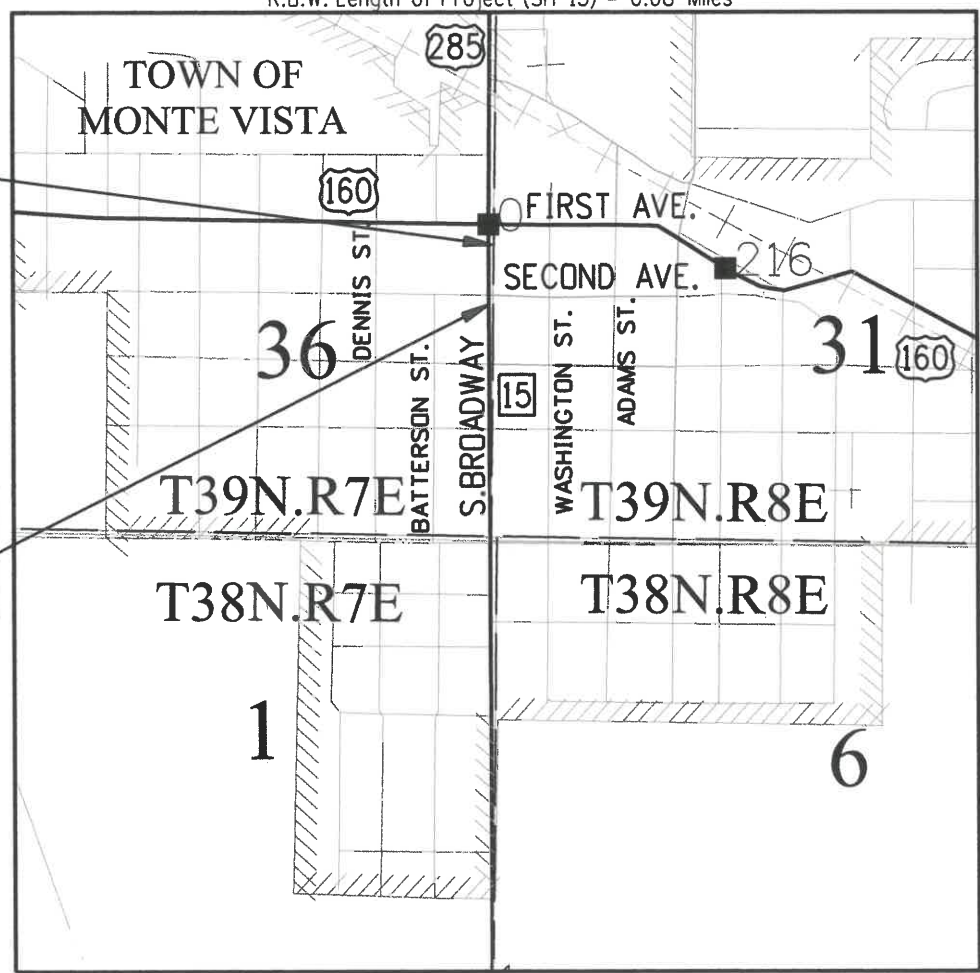
I, Jeff J. Redfern, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, research, calculations and evaluation of the survey evidence were performed and this Right-of-Way Plan 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. 27937



BEGIN ROW
 PROJECT NHPP R 500-173
 STATE HWY 15
 M.P. 0.02

END ROW
 PROJECT NHPP R 500-173
 STATE HWY 15
 M.P. 0.10



Note: For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication.

12/5/2018 2:07:05 PM P:\CDOT R5 Traffic SignalReplacements\0131286.06-CDOT R5 INTERSECTIONS\20740\RDW_Survey\Drawings\Reference_Files\20740RDW_Monte_Vista_TitleSh.dgn
 DEPT. FILED IN BOOK OF THE COUNTY LAND SURVEYS/RIGHT OF WAY SURVEYS AT PAGE RECEPTION NUMBER
 FILED CERTIFICATION: DEPOSITED THIS DAY OF AT .M., IN BOOK OF THE COUNTY LAND SURVEYS/RIGHT OF WAY SURVEYS AT PAGE RECEPTION NUMBER
 SIGNED

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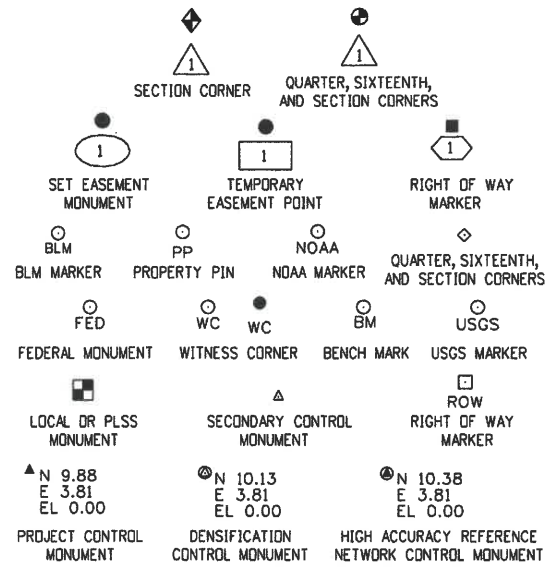
Project Control Diagram			
Title Sheet			
Project Number: NHPP R 500-173			
Project Location: SH 15 & SECOND AVE. INTERSECTION			
TOWN OF MONTE VISTA			
Project Code:	Last Mod. Date	Subset	Sheet No.
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DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

PROJECT CONTROL DIAGRAM

US Highway 160 MP 215.50 to MP 215.85
 State Highway 15 MP 0.18
 Section 36, T39N, R7E, NMPM
 Section 31, T39N, R8E, NMPM
 County of Rio Grande

SHEET NO.	INDEX OF SHEETS
3.01	(1) Title Sheet
3.02	(1) Coordinate Sheet
3.03	(1) Plan Sheet
(3) Total Sheets	



Note: For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation, M&S Standards Publication. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.

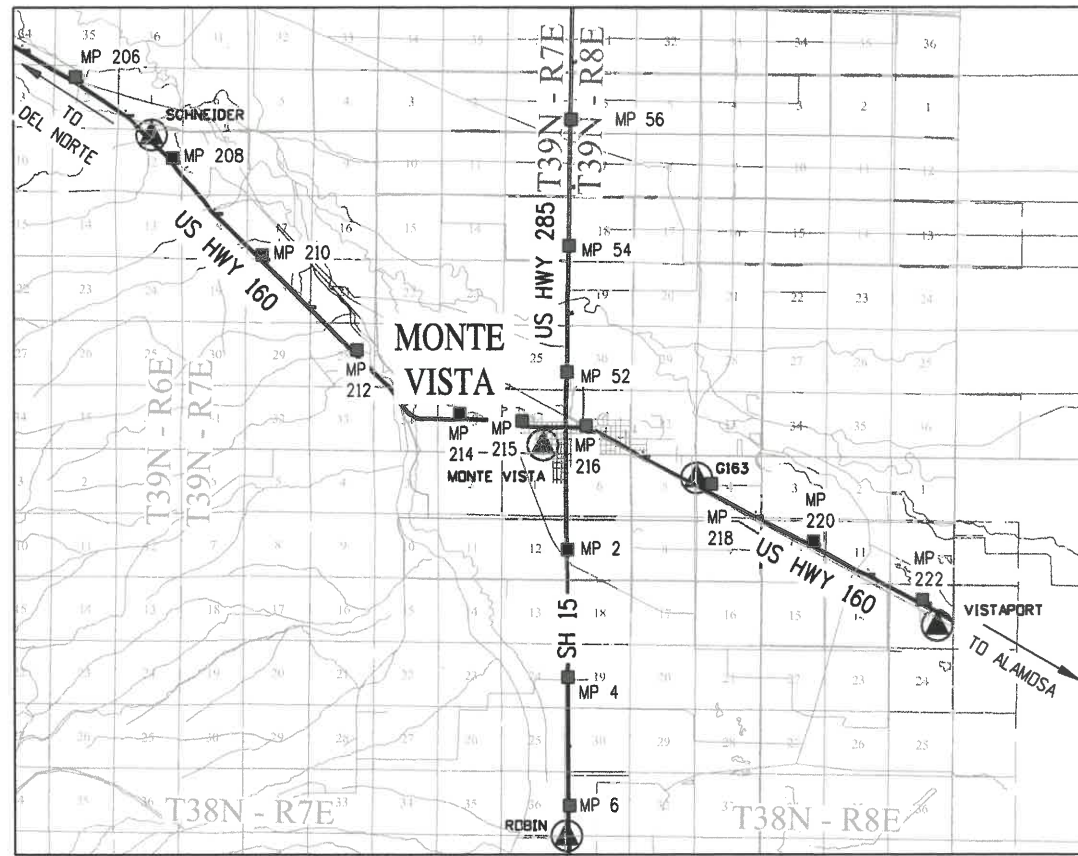


Typical Control Monument Cap
 Not to Scale

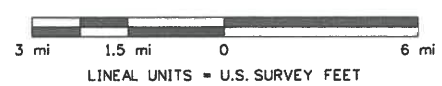
▲ CM-MP - Control Point Monuments set by Farnsworth Group. They are CDDOT Type 2 monuments, a 3 1/4" dia. aluminum control monument cap (as shown) on a 3' x 3/4" dia. aluminum security rod on a 3' x 3/4" dia. smooth aluminum rod.

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 CDDOT 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 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.



PROJECT LOCATION MAP



Basis of Bearings: Bearings used in the calculations of coordinates are based on grid bearing of S 88°12'12" E from M.P. 215.50 to M.P. 215.85, both monuments being CDDOT Type 5s Monuments. The survey data was obtained from a Global Positioning System (GPS) based on the National Spatial Reference System (NSRS).

Basis of Elevations: Elevations based on National Geodetic Vertical Datum of 1988 (NAVD88); spirit levels were run from the benchmark: J 163, a 1934 Coast & Geodetic Survey Brass Disk found on Post Office wall, with the orthometric height of 7667.66 U.S. Survey Feet.

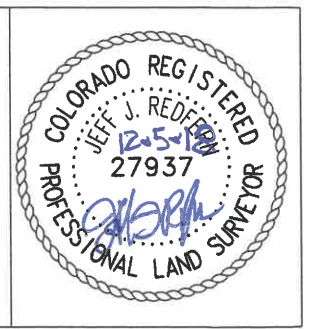
Project coordinates expressed as U.S. survey feet: 1200/3937 meters

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone (0502) NAD '83/(2011) coordinates. The combined elevation/scale factor used to modify the coordinates from metric state plane to project coordinates is 1.000396525. The resulting project coordinates are truncated by 300,000 meters in the Northing and 800,000 meters in the Easting.

Project Coordinates Northing US Survey Feet = (State Plane Metric Coordinate Northing * 1.000396525 - 300,000 meters)/(1200/3937)
 Project Coordinates Easting US Survey Feet = (State Plane Metric Coordinate Easting * 1.000396525 - 800,000 meters)/(1200/3937)

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, Jeff J. Redfern, 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.
 PLS No. 27937



Sheet Revisions		
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Project Control Diagram			
Coordinate Table			
Project Number: NHPP R 500-173			
Project Location: SH 15 & SECOND AVE. INTERSECTION			
TOWN OF MONTE VISTA			
Project Code:	Last Mod. Date	Subset	Sheet No.
20740	11-27-18	3.02 of 3.03	3.02



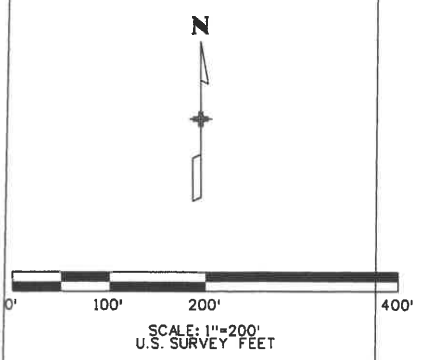
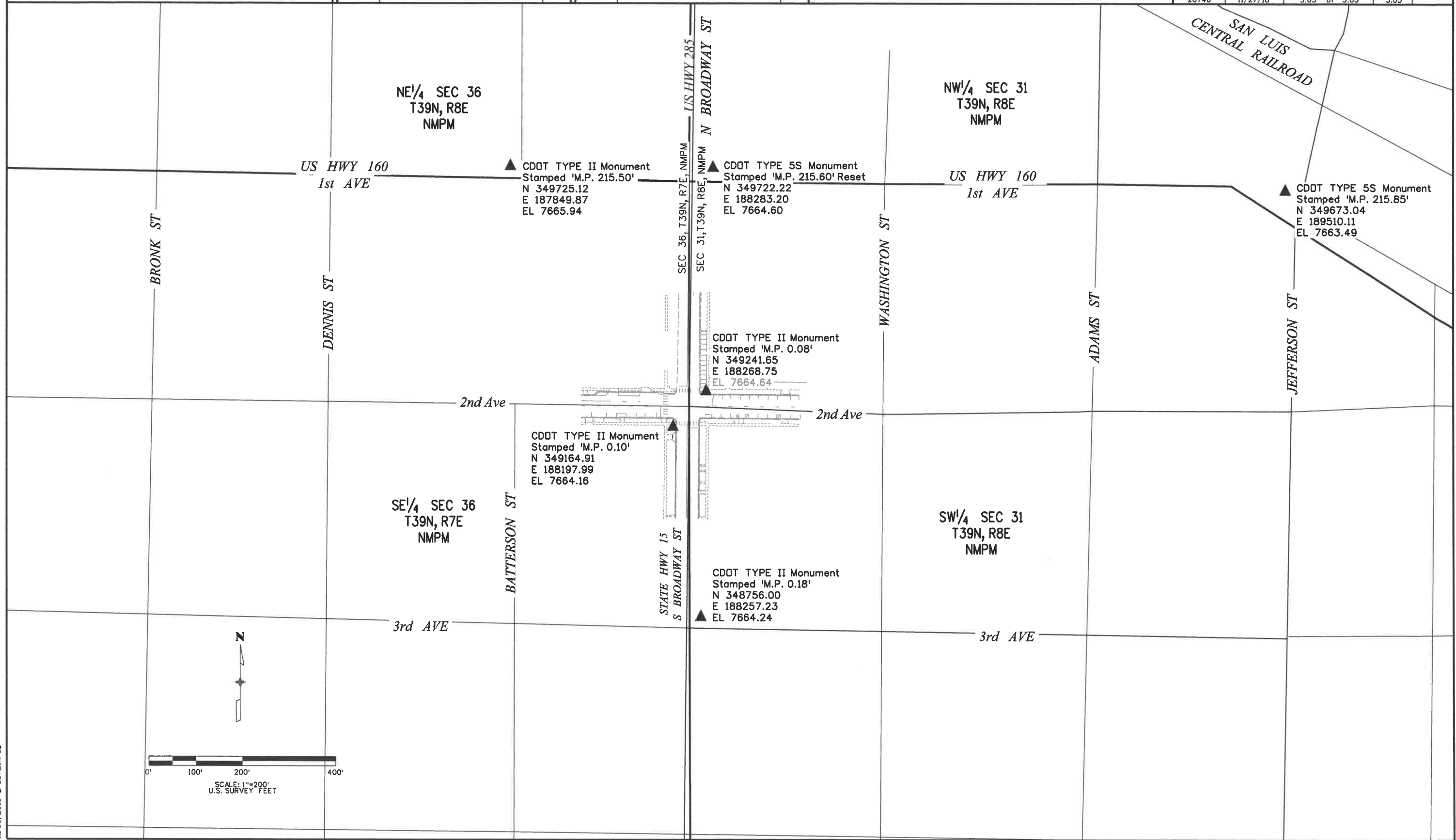
GEODETIC COORDINATE SUMMARY TABLE									
Point No.	Geodetic Coordinates NAD-83(2011) (CHARN)		Elip Height (m)	Ortho Height NAVD88 (m)	Mapping Angle	Grid Scale Factor	NAD 83(2011) Zone 0503		Description
	Latitude(N)	Longitude(W)					SP Northing(m)	SP Easting(m)	
MP 0.08	N37°34'45.50295"	W106°08'57.74102"	2319.572	2336.187	-0°23'54"	0.999955238	406287.964	857044.591	CDOT TYPE II Monument Stamped 'M.P. 0.08'
MP 0.10	N37°34'44.73976"	W106°08'58.61313"	2319.426	2336.041	-0°23'54"	0.999955254	406264.585	857023.030	CDOT TYPE II Monument Stamped 'M.P. 0.10'
MP 0.18	N37°34'40.70267"	W106°08'57.84221"	2319.451	2336.065	-0°23'54"	0.999955341	406139.998	857041.079	CDOT TYPE II Monument Stamped 'M.P. 0.18'
MP 215.50	N37°34'50.25212"	W106°09'02.98435"	2319.970	2336.583	-0°23'57"	0.999955136	406435.267	856916.966	CDOT TYPE II Monument Stamped 'M.P. 215.50'
MP 215.60	N37°34'50.25329"	W106°08'57.60313"	2319.560	2336.175	-0°23'54"	0.999955136	406434.384	857048.992	CDOT TYPE 5s Monument Stamped 'M.P. 215.60'
MP 215.85	N37°34'49.85123"	W106°08'42.36334"	2319.214	2335.837	-0°23'44"	0.999955145	406419.399	857422.807	CDOT TYPE 5s Monument Stamped 'M.P. 215.8'
MONTE VISTA	N37°34'27.94778"	W106°09'20.95076"	2320.490	2337.090	-0°24'08"	0.999955618	405750.751	856471.342	NGS Bronze Disk in Concrete 'Monte Vista 1935 1979'
ROBIN	N37°29'09.28022"	W106°08'55.40763"	2317.790	2334.347	-0°23'52"	0.999963763	395922.524	857029.855	NGS Stainless Steel Rod Logo Lid 'ROBIN 1991'
SCHNEIDER	N37°38'38.61269"	W106°16'02.78109"	2378.651	2395.014	-0°28'15"	0.999950875	413553.318	846675.353	NGS Bronze Disk in Rock Outcrop 'SCHNEIDER 1999'
VISTAPORT	N37°32'02.61544"	W106°02'39.05110"	2301.723	2318.455	-0°20'02"	0.999959039	401207.078	866306.502	NGS Stainless Steel Rod Logo Lid 'VISTAPORT 2009'
G 163	N37°34'01.82277"	W106°06'44.53330"	2313.384	2330.056	-0°22'32"	0.999956196	404919.314	860304.009	Bench Mark Disk in Conc. Stamped 'G 163 1934'



PROJECT COORDINATE TABLE				
Point No.	Project Coordinates		Elev(ft) (NAVD88)	Description
	Northing(ft)	Easting(ft)		
MP 0.08	349241.65	188268.75	7664.64	CDOT TYPE II Monument Stamped 'M.P. 0.08'
MP 0.10	349164.92	188197.99	7664.16	CDOT TYPE II Monument Stamped 'M.P. 0.10'
MP 0.18	348756.00	188257.23	7664.24	CDOT TYPE II Monument Stamped 'M.P. 0.18'
MP 215.50	349725.12	187849.87	7665.94	CDOT TYPE II Monument Stamped 'M.P. 215.50'
MP 215.60	349722.22	188283.20	7664.60	CDOT TYPE 5s Monument Stamped 'M.P. 215.60'
MP 215.85	349673.04	189510.11	7663.49	CDOT TYPE 5s Monument Stamped 'M.P. 215.8'

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Project Control Diagram			
Plan Sheet			
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TOWN OF MONTE VISTA			
Project Code	Last Mod. Date	Subset	Sheet No.
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Sheet Revisions		
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mm/dd/yy	XXXXXXXX	XXX

Right of Way Plans			
Plan Sheet			
Project Number: R 500-173			
Project Location: SH 15 & SECOND AVE. INTERSECTION			
TOWN OF MONTE VISTA			
Project Code	Last Mod. Date	Subset	Sheet No.
20740	11-27-18	4.01 of 4.03	4.01

DEPARTMENT OF TRANSPORTATION

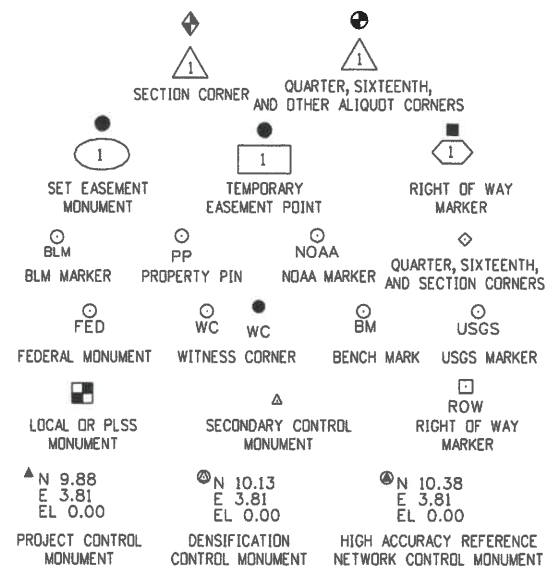
STATE OF COLORADO

LAND SURVEY CONTROL DIAGRAM

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

State Highway 15 MP 0.02 to 0.10

Section 36
 Township 39 North, Range 7 East
 &
 Section 31
 Township 39 North, Range 8 East
 of the N.M.P.M.
 County of Rio Grande



General Notes:

1. This Land Survey Control Diagram is not a boundary survey of the adjoining properties and is prepared for the Colorado Department of Transportation purposes only.
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3. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.
4. All Coordinates listed are PROJECT COORDINATES only. Coordinates are carried out to two decimal places for calculation purposes and do not represent survey precision. Survey precision meets C.D.D.T. "B" order precision.

Basis of Bearings: Bearings used in the calculations of coordinates are based on grid bearing of S 88°12'12" E from M.P. 215.50 to M.P. 215.85, both monuments being CDOT Type 5s Monuments. The survey data was obtained from a Global Positioning System (GPS) based on the National Spatial Reference System (NSRS).

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 (LAND SURVEY CONTROL DIAGRAM)

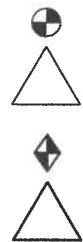
I, Jeff J. Redfern, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Land Survey Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information 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.

PLS No. 27937



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Sheet Revisions		
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mm/dd/yy	XXXXXXXX	XXX



FOUND ALIQUOT MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
12	350127.30	188236.33	3 1/4" aluminum cap LS 5442 W 1/4 S 36/S31 (below asphalt surface)
5829	347480.78	188217.13	3 1/4" aluminum cap in range box LS 37973 SE COR S36



ROW

FOUND R.O.W. MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
51	349536.45	188282.28	3 1/4" aluminum cap flush with ground CDOT Type I ROW Pt. No. 51 Proj No. 12867 LS 27937
53	349649.44	187863.08	3 1/4" aluminum cap flush with ground CDOT Type I ROW Pt. No. 53 Proj No. 12867 LS 27937
59	349639.69	189229.42	3 1/4" aluminum cap flush with ground CDOT Type I ROW Pt. No. 59 Proj No. 12867 LS 27937



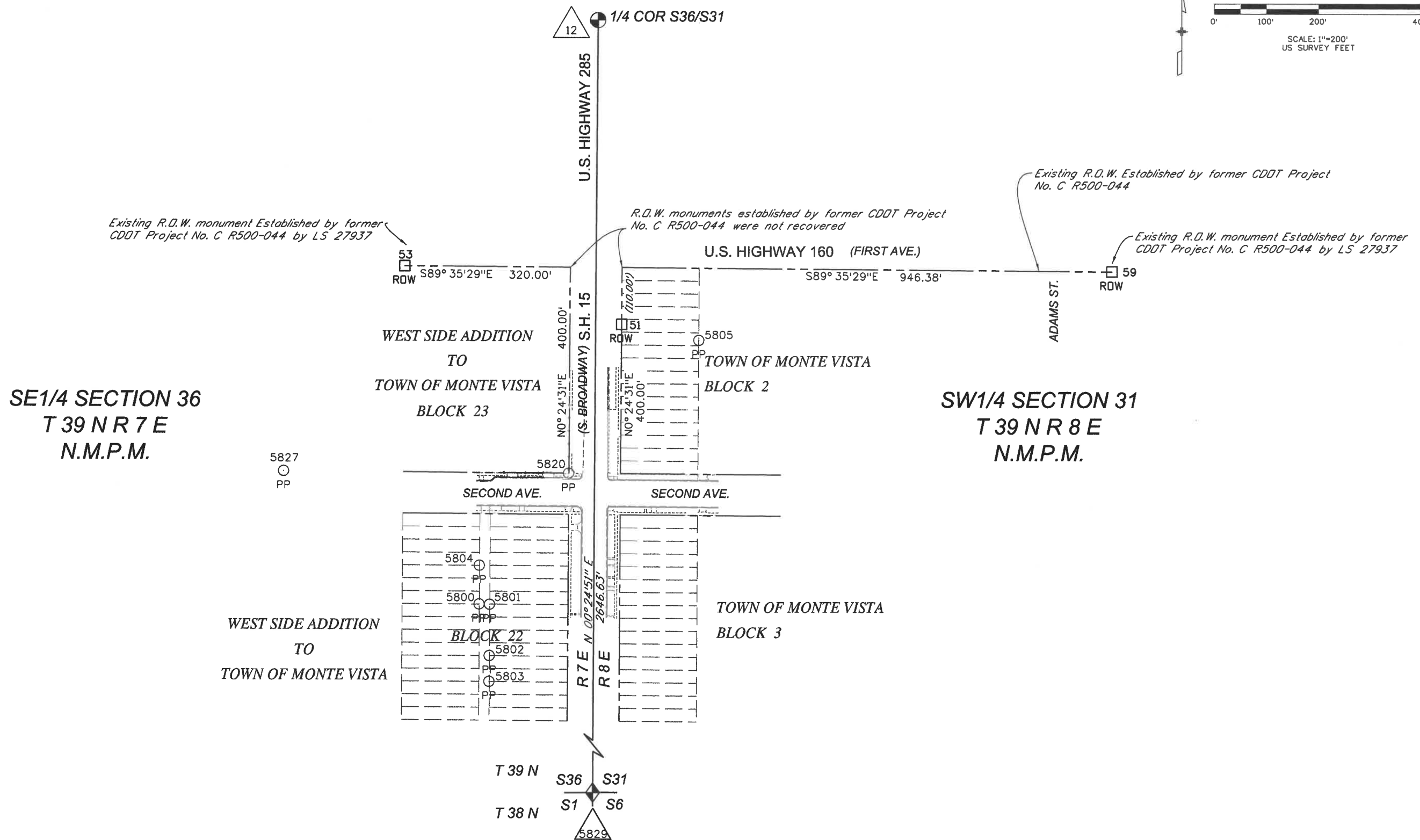
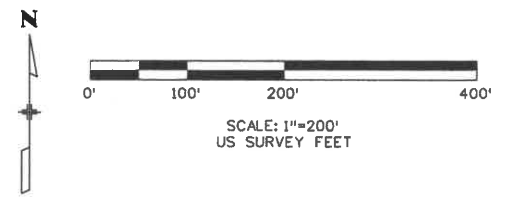
PP

FOUND BOUNDARY MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
5800	348993.37	188007.83	1/2" rebar 0.4' below ground (no ID)
5801	348992.92	188028.00	1/2" rebar 0.1' below ground (no ID)
5802	348893.28	188027.24	1/2" rebar in concrete 0.1' above ground (no ID)
5803	348843.26	188026.84	1/2" rebar with red plastic cap (illegible) flush with ground
5804	349068.46	188008.51	1/2" rebar with orange plastic cap stamped Davis PLS 32484 flush with ground
5805	349505.73	188432.12	1/2" rebar with broken plastic cap (illegible) flush with ground
5820	349247.11	188179.57	1/2" rebar flush with ground (no ID)
5827	349251.30	187630.05	1/2" rebar with yellow plastic cap stamped Reynolds PLS 23847 flush with ground

Sheet Revisions		
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mm/dd/yy	XXXXXXXX	XXX

Land Survey Control Diagram			
Plan Sheet			
Project Number: NHPP R 500-173			
Project Location: SH 15 & SECOND AVE. INTERSECTION			
TOWN OF MONTE VISTA			
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Sheet Revisions		
Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Right of Way Plans Monumentation Sheet			
Project Number: NHPP R 500-173			
Project Location: SH 15 & SECDND AVE. INTERSECTION			
TOWN OF MONTE VISTA			
Project Code:	Last Mod. Date	Subset	Sheet No.
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TABULATION OF R.O.W. MONUMENTS SET			
Point No.	Northing(ft)	Easting(ft)	Description
500	349077.17	188179.01	Type 5(s) CDOT Monument - PLS 27937
501	349076.46	188279.00	Type 5(s) CDOT Monument - PLS 27937
503	349537.16	188182.28	Type I CDOT Monument - PLS 27937



TABULATION OF CALCULATED POINTS (NOT TO BE SET)			
Point No.	Northing(ft)	Easting(ft)	Description
700	349247.17	188180.22	ROW CALCULATED POINTS
701	349246.46	188280.21	ROW CALCULATED POINTS
702	349166.46	188279.64	ROW CALCULATED POINTS
703	349167.17	188179.65	ROW CALCULATED POINTS

General Notes:

- This Right-of-Way Plan is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
- No title information was researched or supplied for this project.
- Right-of-Way was established using control as referenced by Farnsworth Group, Inc. and established under Project No. NHPP R 500-173, and the coordinates are specific to this project.
- All centerline and offset stationing may not represent the centerline as constructed in the field.
- Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for survey monument descriptions.
- 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.
- This right-of-way survey meets the minimum accuracy tolerances for CDDT Class B - Secondary as defined in Chapter 5 of the CDDT Survey Manual, dated Nov. 2011.

Note:

Type I monuments are 3/4" aluminium caps with magnet set on a 3/4" X 36" aluminium finned rod, per CDDT Standard Plan No. M-629-1 for Survey Monuments, issued July, 2012.

Type 5(s) monuments are 1 1/4" brass cap with stem.

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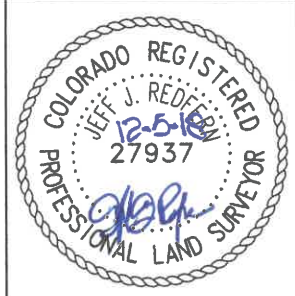
QUANTITY OF MONUMENTS TO BE SET

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

SURVEYOR STATEMENT (R.O.W. MONUMENTS)

I, Jeff J. Redfern, 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.

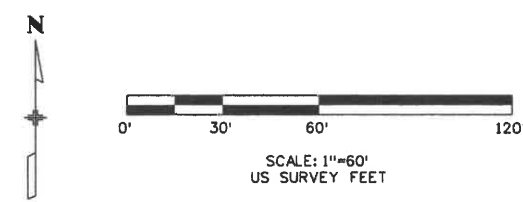
PLS No. 27937



12/5/2018 \$PLOT_INFOS

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Right of Way Plans			
Plan Sheet			
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BEGIN ROW PROJECT NHPP R 500-173
 Approx. M.P. 0.02 State Highway 15

SE1/4 SECTION 36
 T 39 N R 7 E
 N.M.P.M.

WEST SIDE ADDITION
 TO
 TOWN OF MONTE VISTA
 BLOCK 23

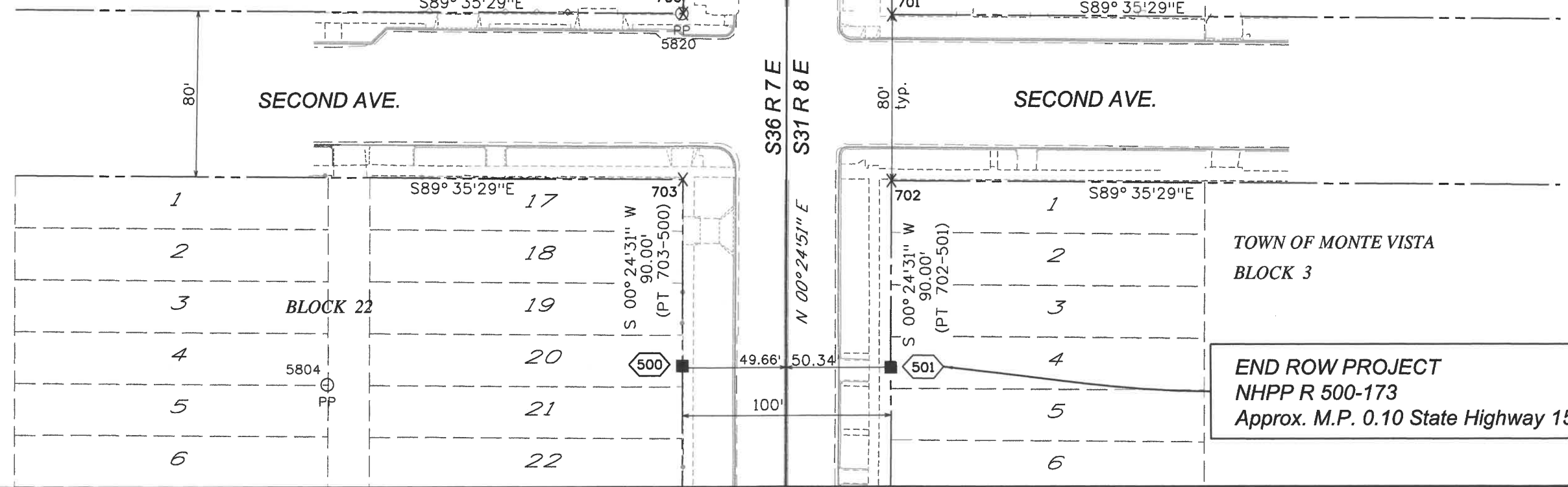
Existing R.D.W. Established by the
 Map of the West Side Addition to
 Town of Monte Vista No. 9407
 for S. Broadway & Second Ave.

(BROADWAY)
 STATE HIGHWAY 15

- 51 RDW 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

TOWN OF MONTE VISTA
 BLOCK 2
 SW1/4 SECTION 31
 T 39 N R 8 E
 N.M.P.M.

Existing R.D.W. Established by the
 Map of the Town of Monte Vista No. 8552
 for S. Broadway & Second Ave.



WEST SIDE ADDITION
 TO
 TOWN OF MONTE VISTA

BLOCK 22

TOWN OF MONTE VISTA
 BLOCK 3

END ROW PROJECT
 NHPP R 500-173
 Approx. M.P. 0.10 State Highway 15