



COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.



r500001329

Description:

ROW Plans 24X36

Route # and Mile Points:

US 160

Originating Office:

ROW/Survey

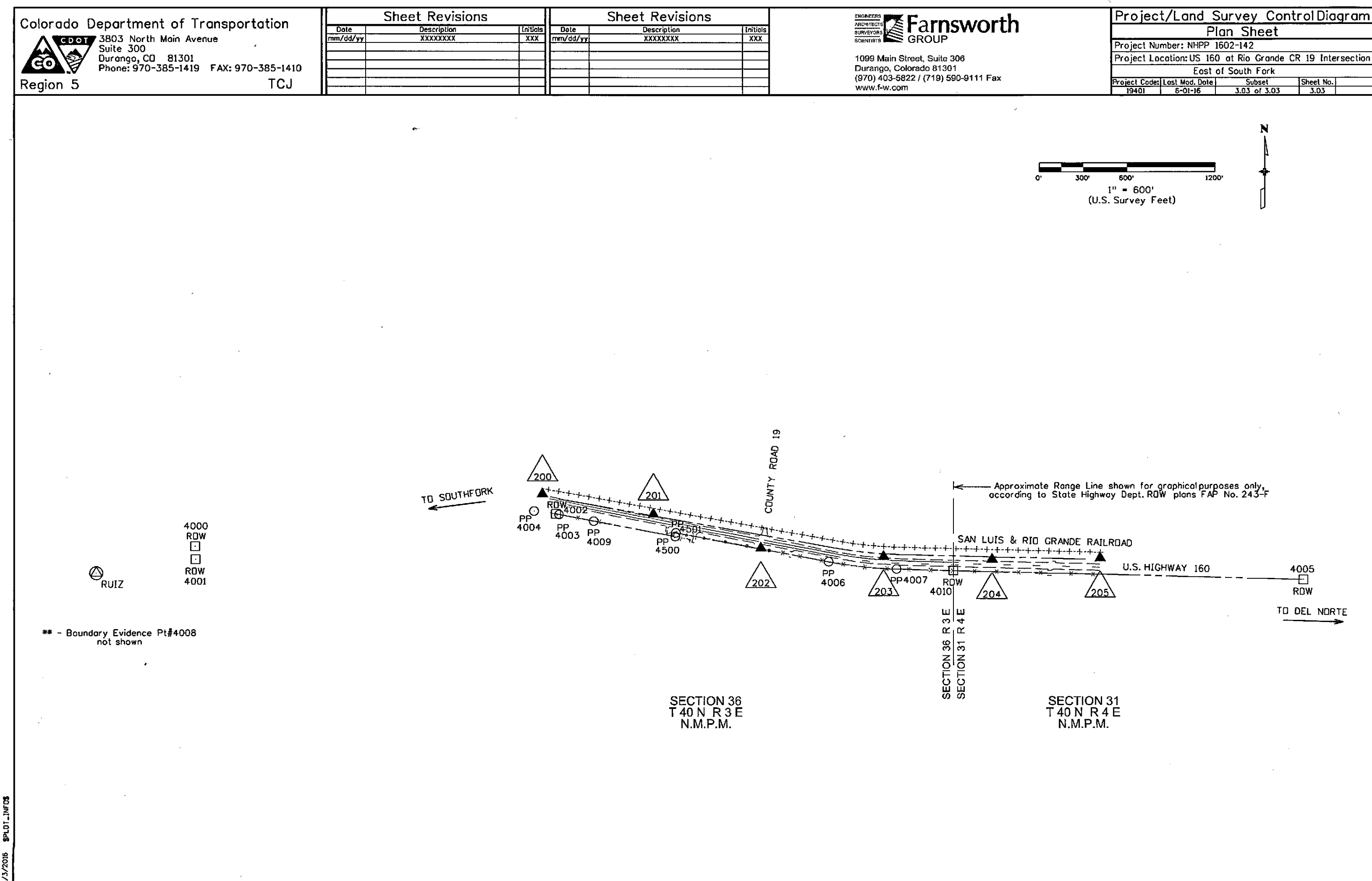
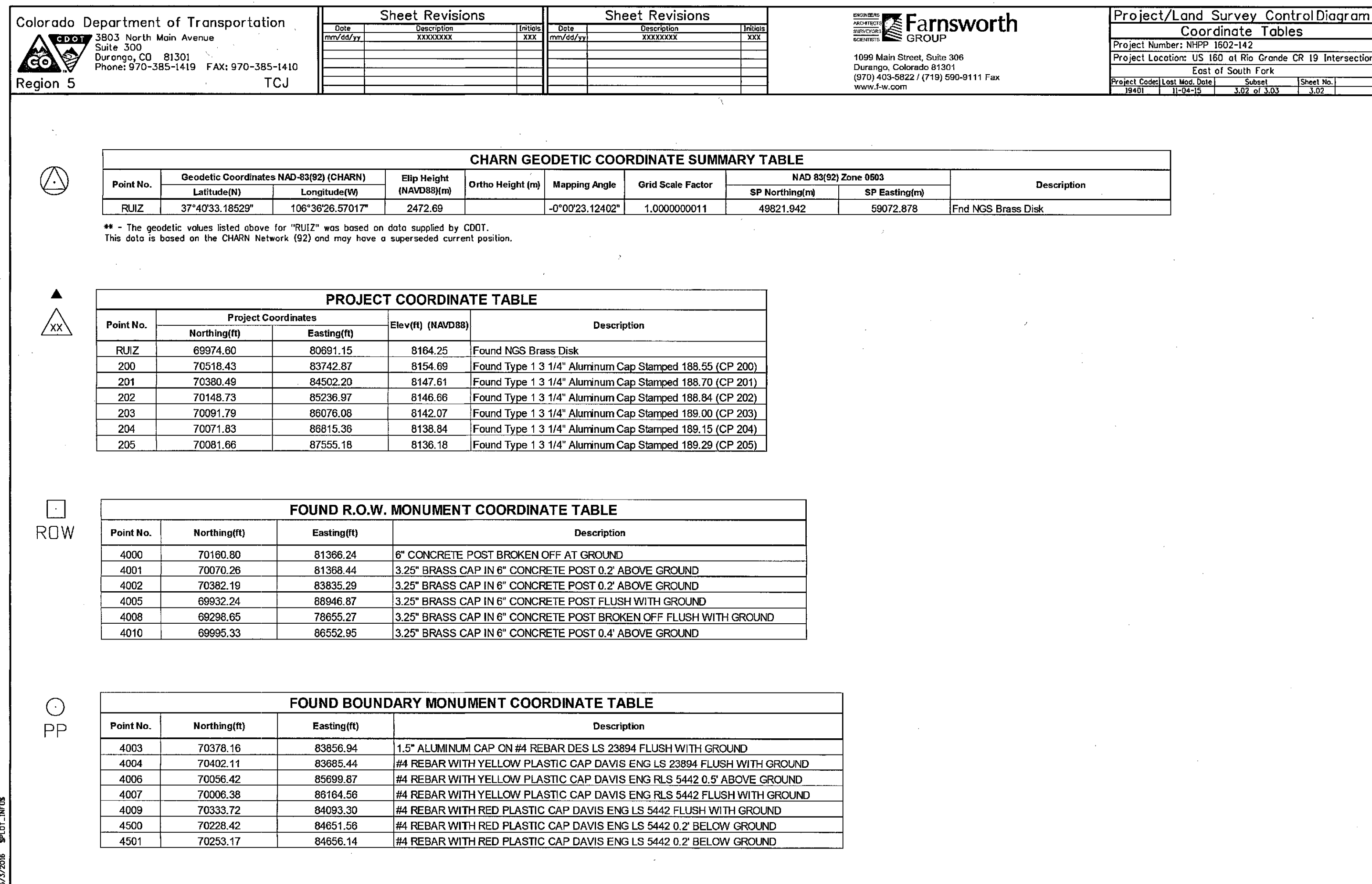
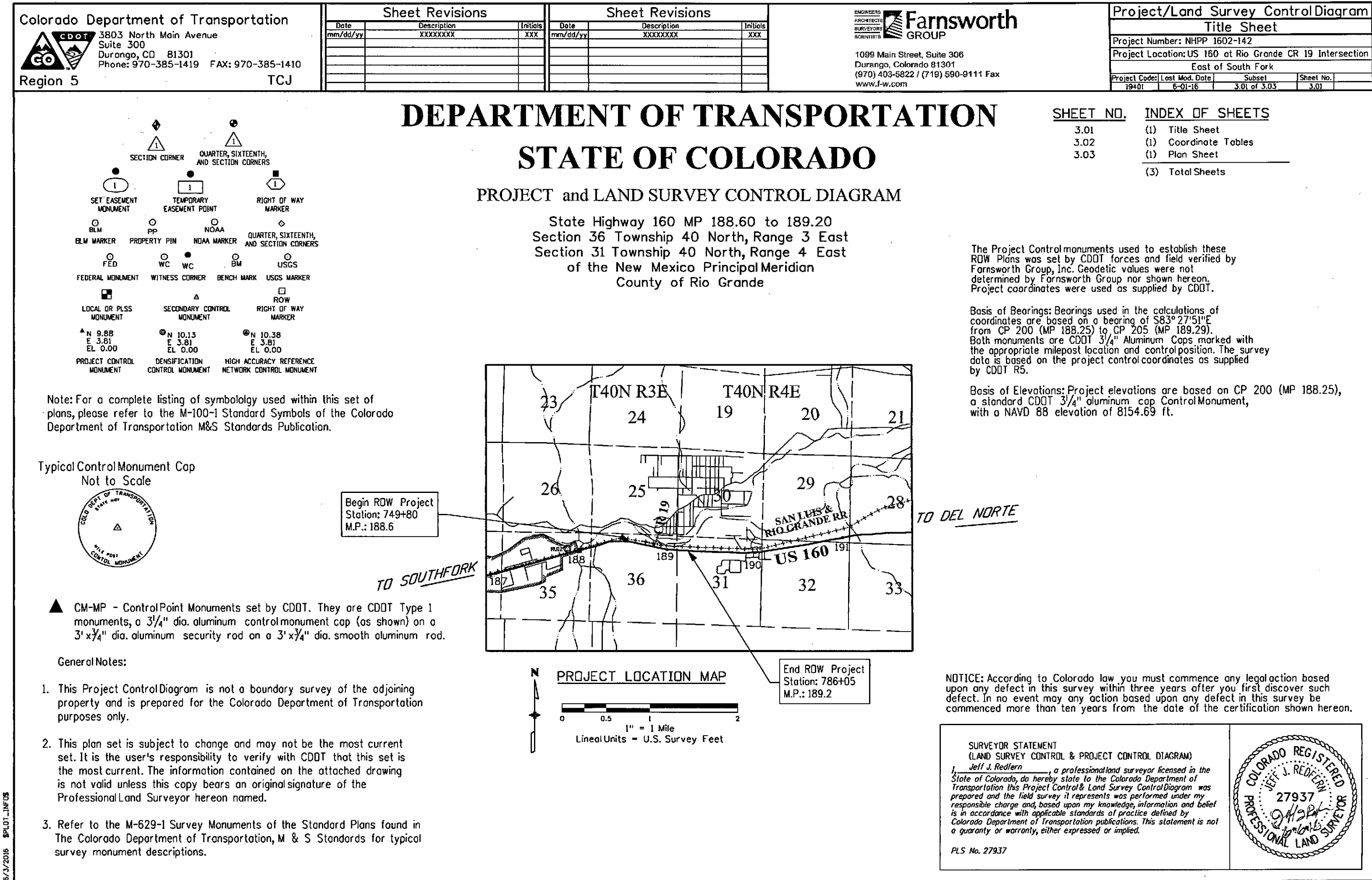
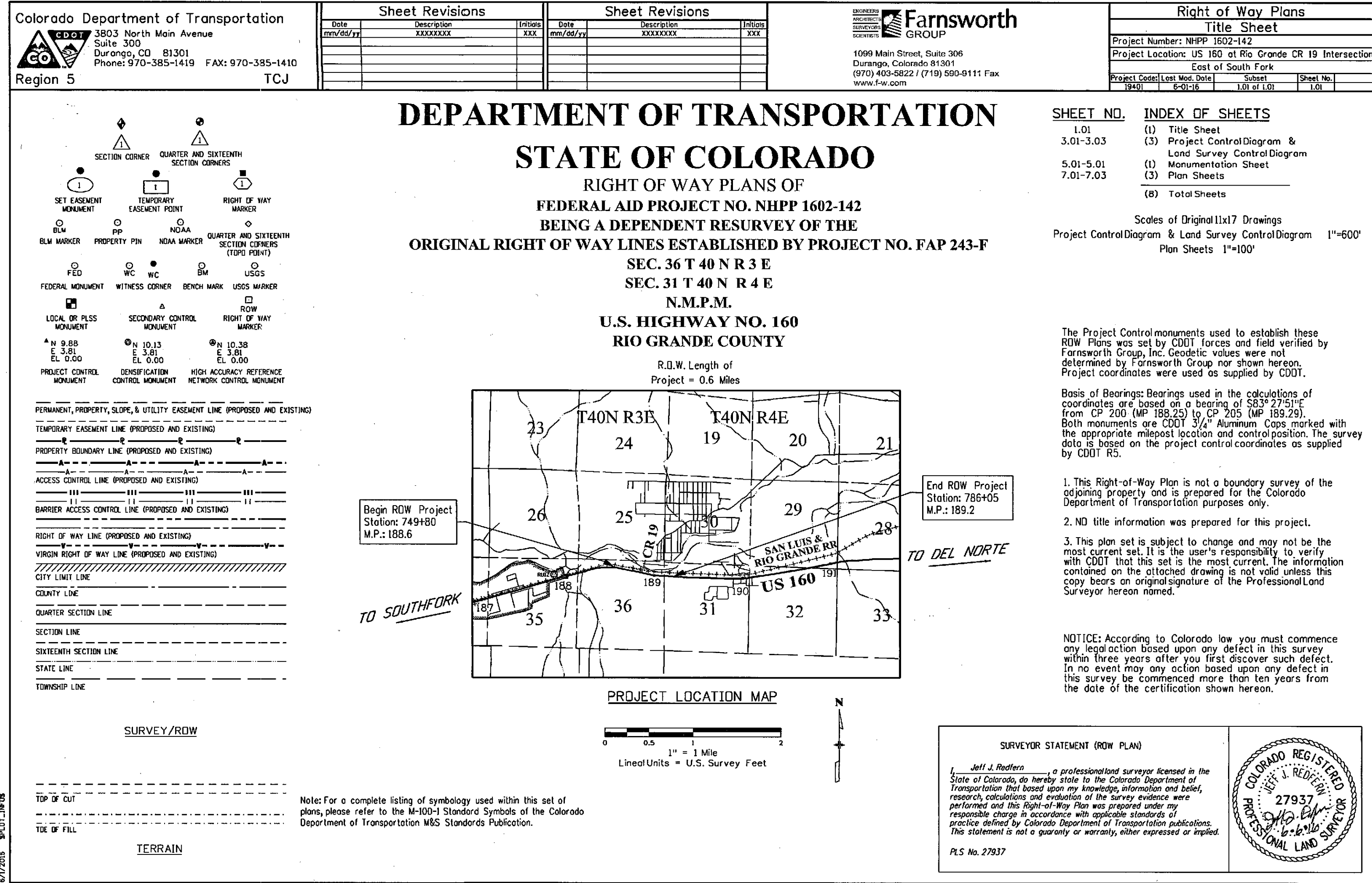
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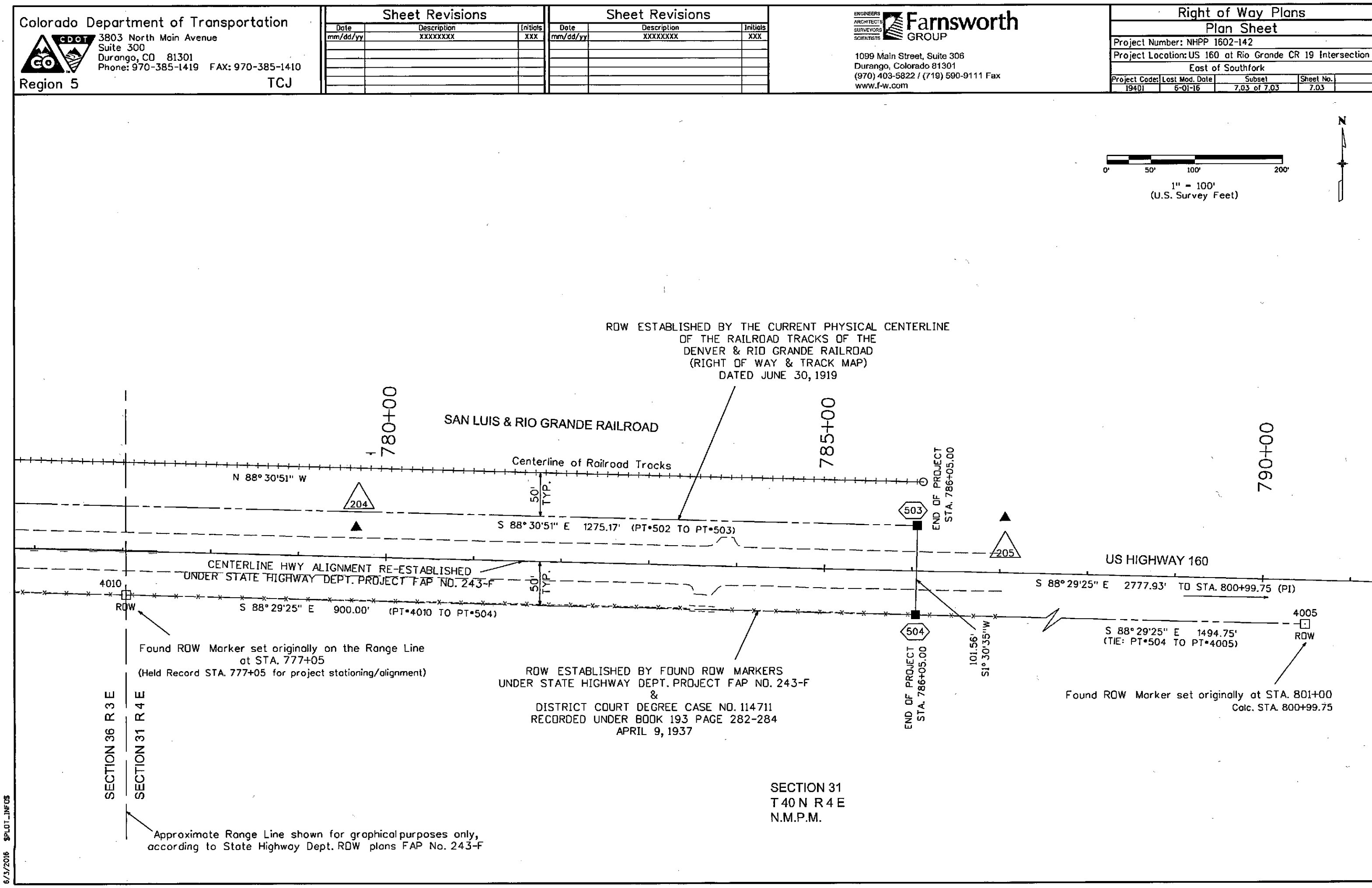
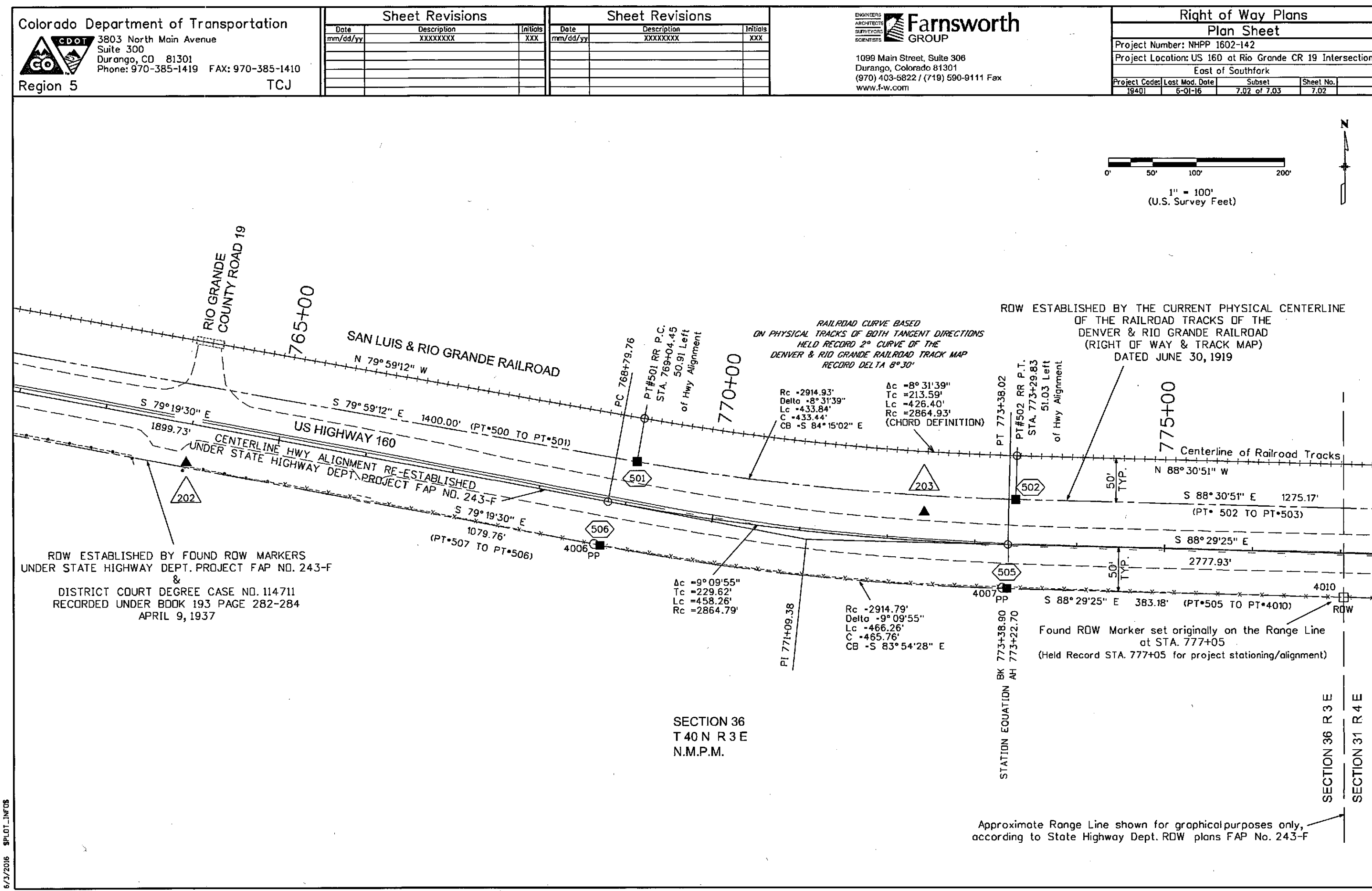
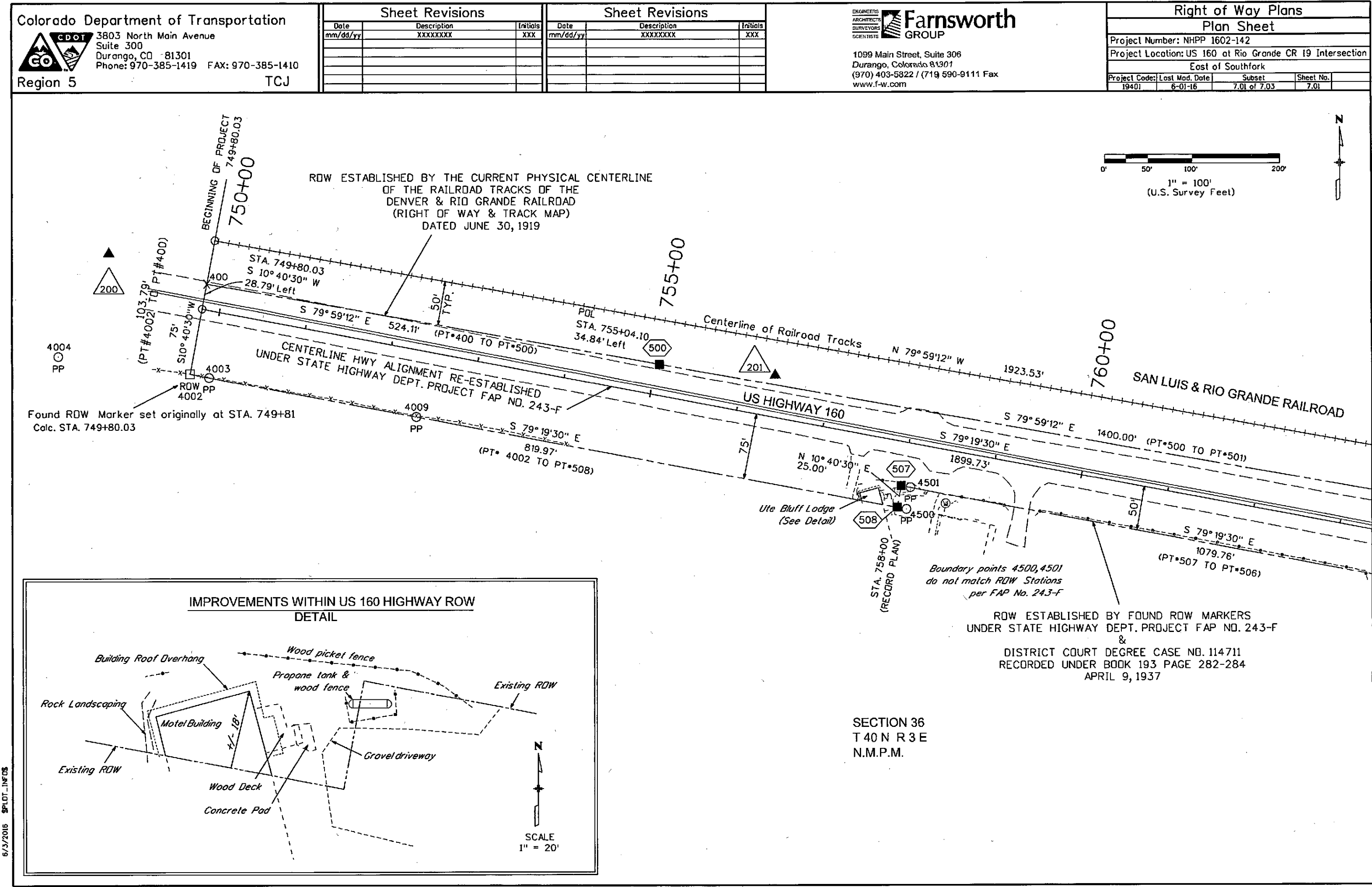
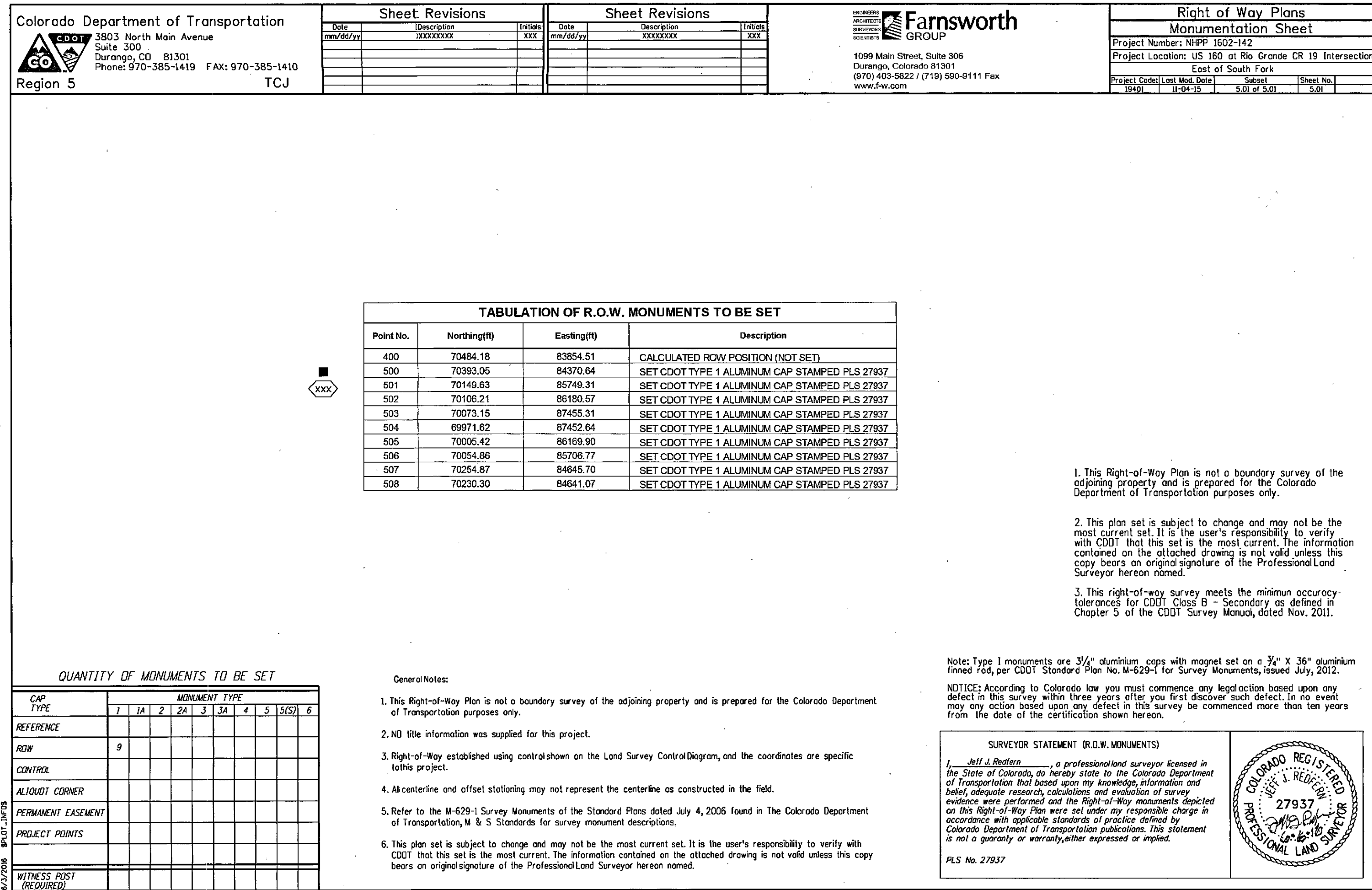
NHPP 1602-142_ROW(.PDF)

Box Location:

23 (TUBE-4) of 38

NHPP 1602-142







COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.



r500002002

Description:

ROW Plans 11X17

Route # and Mile Points:

US 160

Originating Office:

ROW/Survey

File Name:

NHPP 1602-142_ROW(.PDF)

Box Location:

32 of 38

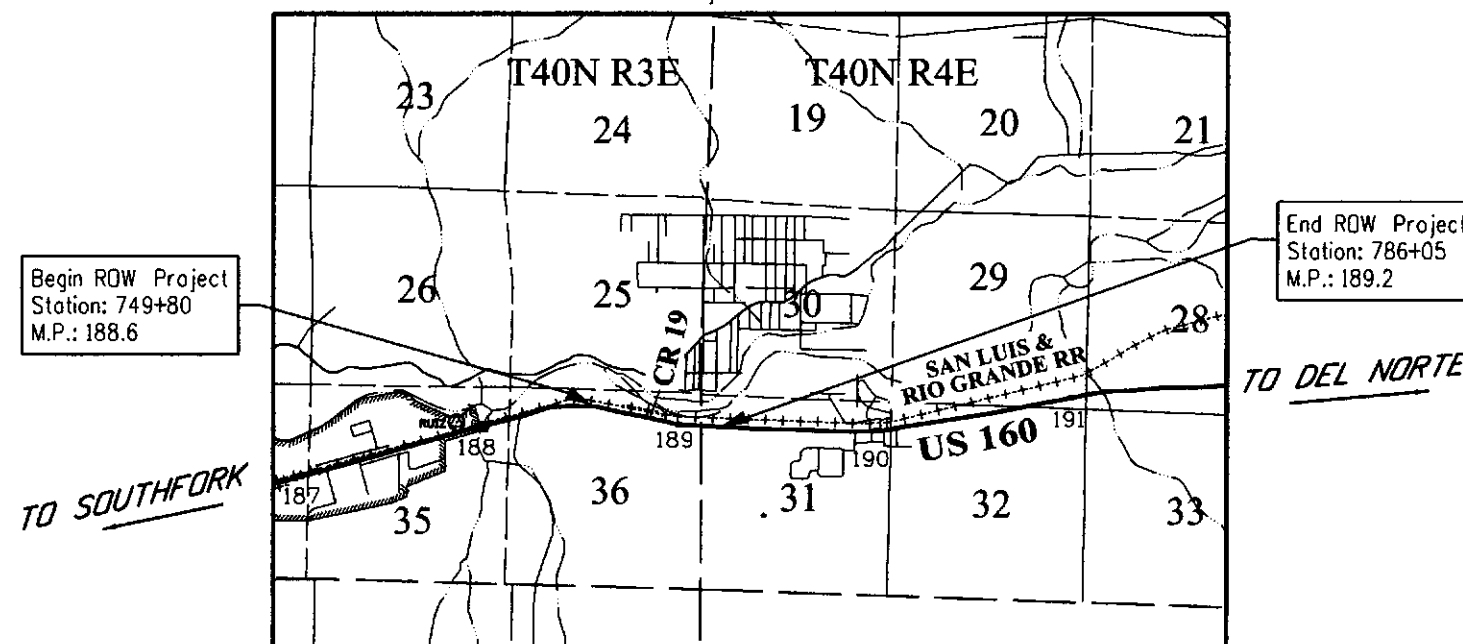
Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX	mm/dd/yy	XXXXXXXX	XXX

Right of Way Plans			
Title Sheet			
Project Number: NHPP 1602-142			
Project Location: US 160 at Rio Grande CR 19 Intersection			
East of South Fork			
Project Code: 19401	Last Mod. Date: 6-01-16	Subset: 1.01 of 1.01	Sheet No.: 1.01

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

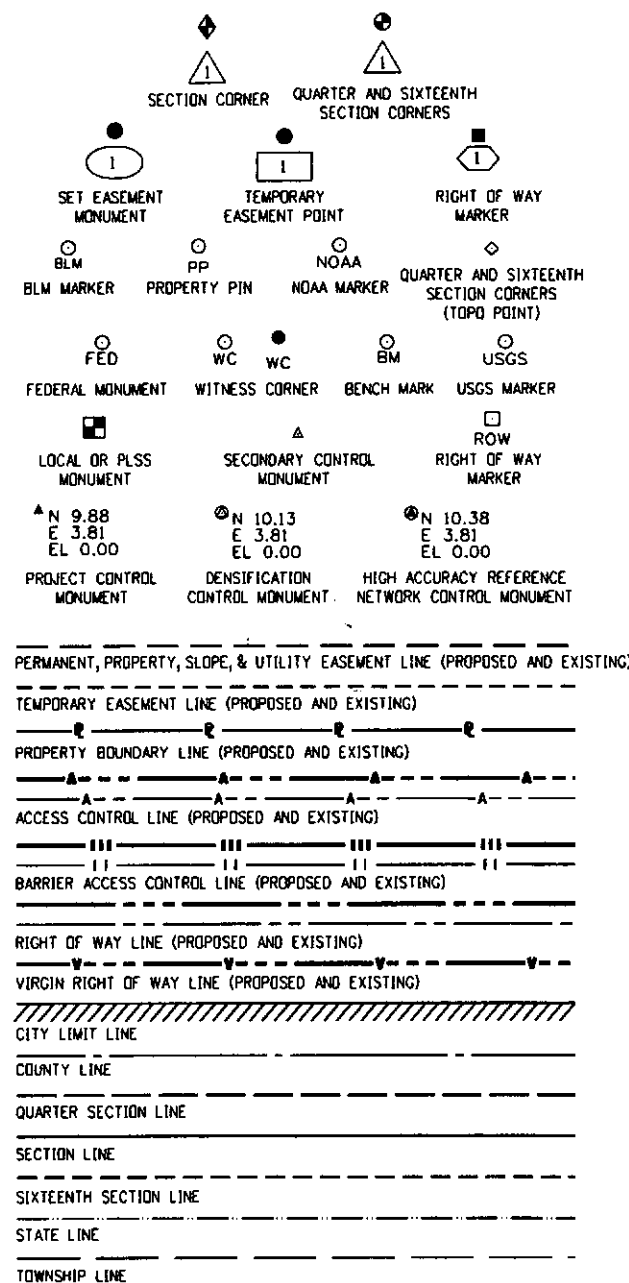
RIGHT OF WAY PLANS OF
FEDERAL AID PROJECT NO. NHPP 1602-142
BEING A DEPENDENT RESURVEY OF THE
ORIGINAL RIGHT OF WAY LINES ESTABLISHED BY PROJECT NO. FAP 243-F
SEC. 36 T 40 N R 3 E
SEC. 31 T 40 N R 4 E
N.M.P.M.
U.S. HIGHWAY NO. 160
RIO GRANDE COUNTY

R.O.W. Length of
Project = 0.6 Miles



PROJECT LOCATION MAP

0 0.5 1 2
1" = 1 Mile
Lineal Units = U.S. Survey Feet



SURVEY/ROW

TOP OF CUT
TOE OF FILL

TERRAIN

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.

SHEET NO.	INDEX OF SHEETS
1.01	(1) Title Sheet
3.01-3.03	(3) Project Control Diagram & Land Survey Control Diagram
5.01-5.01	(1) Monumentation Sheet
7.01-7.03	(3) Plan Sheets
	(8) Total Sheets

Scales of Original 11x17 Drawings
Project Control Diagram & Land Survey Control Diagram 1"=600'
Plan Sheets 1"=100'

The Project Control monuments used to establish these ROW Plans was set by CDOT forces and field verified by Farnsworth Group, Inc. Geodetic values were not determined by Farnsworth Group nor shown hereon. Project coordinates were used as supplied by CDOT.

Basis of Bearings: Bearings used in the calculations of coordinates are based on a bearing of S83°27'51"E from CP 200 (MP 188.25) to CP 205 (MP 189.29). Both monuments are CDOT 3/4" Aluminum Caps marked with the appropriate milepost location and control position. The survey data is based on the project control coordinates as supplied by CDOT R5.

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 prepared for this project.

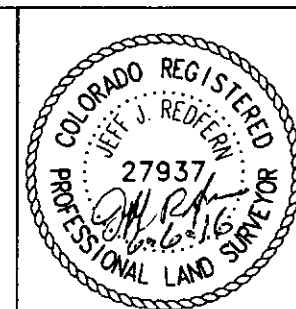
3. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDOT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.

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



Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX	mm/dd/yy	XXXXXXXX	XXX

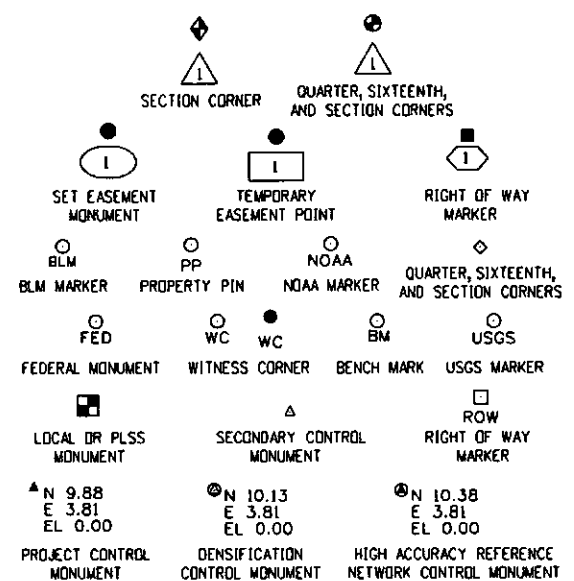
Project/Land Survey Control Diagram			
Title Sheet			
Project Number: NHPP 1602-142			
Project Location: US 160 at Rio Grande CR 19 Intersection			
East of South Fork			
Project Code:	Last Mod. Date	Subset	Sheet No.
19401	6-01-16	3.01 of 3.03	3.01

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

PROJECT and LAND SURVEY CONTROL DIAGRAM

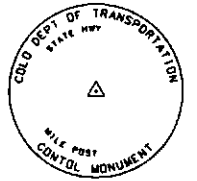
State Highway 160 MP 188.60 to 189.20
Section 36 Township 40 North, Range 3 East
Section 31 Township 40 North, Range 4 East
of the New Mexico Principal Meridian
County of Rio Grande

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



Note: For a complete listing of symbolology 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.

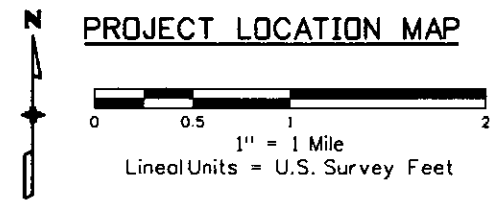
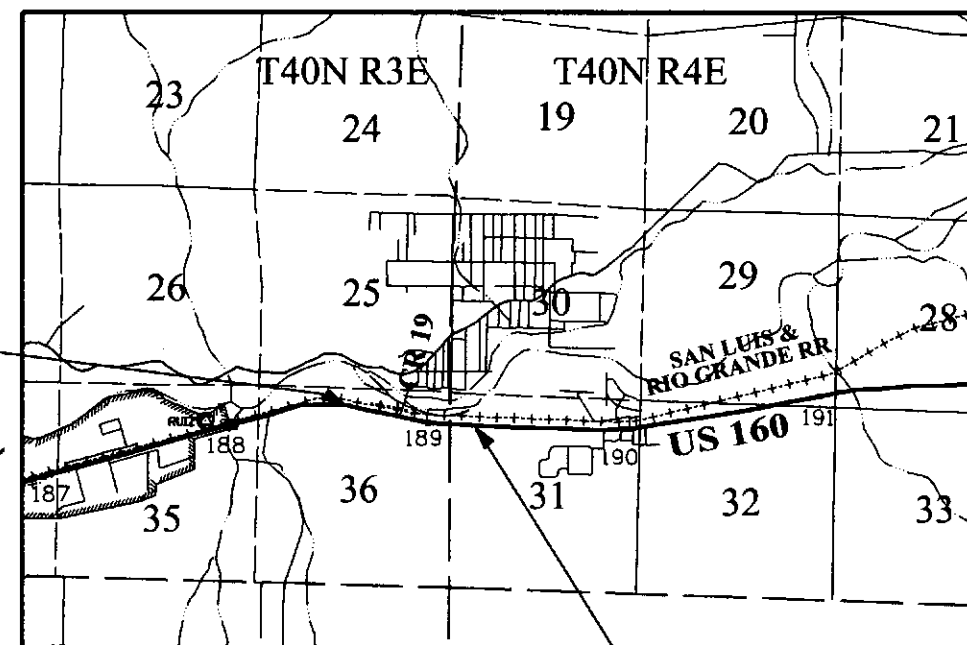
Typical Control Monument Cap
Not to Scale



▲ CM-MP - Control Point Monuments set by CDDT. They are CDDT Type 1 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.

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



End ROW Project
Station: 786+05
M.P.: 189.2

The Project Control monuments used to establish these ROW Plans was set by CDDT forces and field verified by Farnsworth Group, Inc. Geodetic values were not determined by Farnsworth Group nor shown hereon. Project coordinates were used as supplied by CDDT.

Basis of Bearings: Bearings used in the calculations of coordinates are based on a bearing of S83°27'51"E from CP 200 (MP 188.25) to CP 205 (MP 189.29). Both monuments are CDDT 3/4" Aluminum Caps marked with the appropriate milepost location and control position. The survey data is based on the project control coordinates as supplied by CDDT R5.

Basis of Elevations: Project elevations are based on CP 200 (MP 188.25), a standard CDDT 3/4" aluminum cap Control Monument, with a NAVD 88 elevation of 8154.69 ft.

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 & 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 & 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.
P.L.S. No. 27937





CHARN GEODETIC COORDINATE SUMMARY TABLE									
Point No.	Geodetic Coordinates NAD-83(92) (CHARN)		Elip Height (NAVD88)(m)	Ortho Height (m)	Mapping Angle	Grid Scale Factor	NAD 83(92) Zone 0503		Description
	Latitude(N)	Longitude(W)					SP Northing(m)	SP Easting(m)	
RUIZ	37°40'33.18529"	106°36'26.57017"	2472.69		-0°00'23.12402"	1.0000000011	49821.942	59072.878	Fnd NGS Brass Disk

** - The geodetic values listed above for "RUIZ" was based on data supplied by CDOT.
This data is based on the CHARN Network (92) and may have a superseded current position.



PROJECT COORDINATE TABLE				
Point No.	Project Coordinates		Elev(ft) (NAVD88)	Description
	Northing(ft)	Easting(ft)		
RUIZ	69974.60	80691.15	8164.25	Found NGS Brass Disk
200	70518.43	83742.87	8154.69	Found Type 1 3 1/4" Aluminum Cap Stamped 188.55 (CP 200)
201	70380.49	84502.20	8147.61	Found Type 1 3 1/4" Aluminum Cap Stamped 188.70 (CP 201)
202	70148.73	85236.97	8146.66	Found Type 1 3 1/4" Aluminum Cap Stamped 188.84 (CP 202)
203	70091.79	86076.08	8142.07	Found Type 1 3 1/4" Aluminum Cap Stamped 189.00 (CP 203)
204	70071.83	86815.36	8138.84	Found Type 1 3 1/4" Aluminum Cap Stamped 189.15 (CP 204)
205	70081.66	87555.18	8136.18	Found Type 1 3 1/4" Aluminum Cap Stamped 189.29 (CP 205)



FOUND R.O.W. MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
4000	70160.80	81366.24	6" CONCRETE POST BROKEN OFF AT GROUND
4001	70070.26	81368.44	3.25" BRASS CAP IN 6" CONCRETE POST 0.2' ABOVE GROUND
4002	70382.19	83835.29	3.25" BRASS CAP IN 6" CONCRETE POST 0.2' ABOVE GROUND
4005	69932.24	88946.87	3.25" BRASS CAP IN 6" CONCRETE POST FLUSH WITH GROUND
4008	69298.65	78655.27	3.25" BRASS CAP IN 6" CONCRETE POST BROKEN OFF FLUSH WITH GROUND
4010	69995.33	86552.95	3.25" BRASS CAP IN 6" CONCRETE POST 0.4' ABOVE GROUND

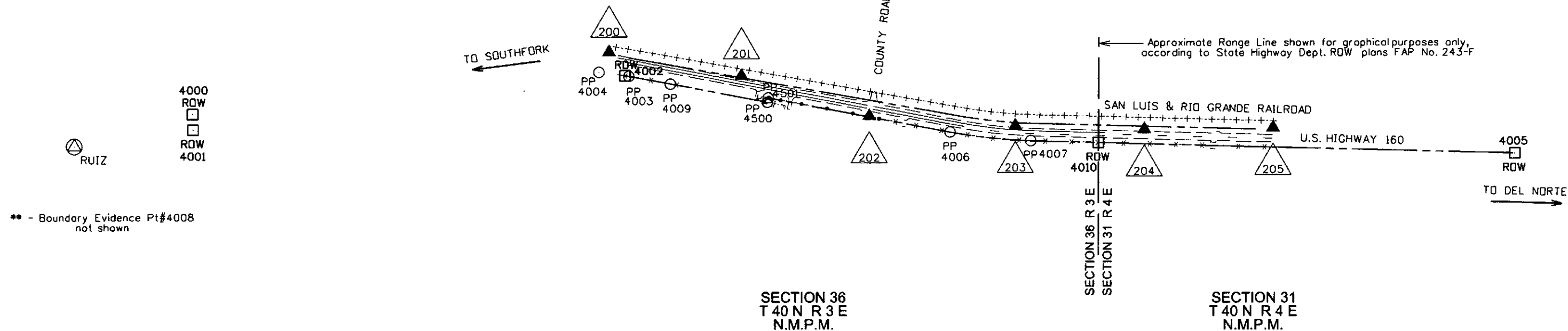
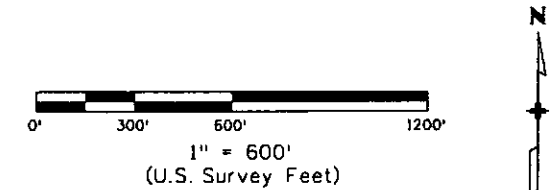


FOUND BOUNDARY MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
4003	70378.16	83856.94	1.5" ALUMINUM CAP ON #4 REBAR DES LS 23894 FLUSH WITH GROUND
4004	70402.11	83685.44	#4 REBAR WITH YELLOW PLASTIC CAP DAVIS ENG LS 23894 FLUSH WITH GROUND
4006	70056.42	85699.87	#4 REBAR WITH YELLOW PLASTIC CAP DAVIS ENG RLS 5442 0.5' ABOVE GROUND
4007	70006.38	86164.56	#4 REBAR WITH YELLOW PLASTIC CAP DAVIS ENG RLS 5442 FLUSH WITH GROUND
4009	70333.72	84093.30	#4 REBAR WITH RED PLASTIC CAP DAVIS ENG LS 5442 FLUSH WITH GROUND
4500	70228.42	84651.56	#4 REBAR WITH RED PLASTIC CAP DAVIS ENG LS 5442 0.2' BELOW GROUND
4501	70253.17	84656.14	#4 REBAR WITH RED PLASTIC CAP DAVIS ENG LS 5442 0.2' BELOW GROUND

Sheet Revisions		
Date	Description	Initials
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Sheet Revisions		
Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Project/Land Survey Control Diagram			
Plan Sheet			
Project Number: NHPP 1602-142			
Project Location: US 160 at Rio Grande CR 19 Intersection			
East of South Fork			
Project Code:	Last Mod. Date	Subset	Sheet No.
19401	6-01-16	3.03 of 3.03	3.03



Sheet Revisions		
Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Sheet Revisions		
Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Right of Way Plans			
Monumentation Sheet			
Project Number: NHPP 1602-142			
Project Location: US 160 at Rio Grande CR 19 Intersection			
East of South Fork			
Project Code:	Last Mod. Date	Subset	Sheet No.
19401	11-04-15	5.01 of 5.01	5.01



TABULATION OF R.O.W. MONUMENTS TO BE SET			
Point No.	Northing(ft)	Easting(ft)	Description
400	70484.18	83854.51	CALCULATED ROW POSITION (NOT SET)
500	70393.05	84370.64	SET CDOT TYPE 1 ALUMINUM CAP STAMPED PLS 27937
501	70149.63	85749.31	SET CDOT TYPE 1 ALUMINUM CAP STAMPED PLS 27937
502	70106.21	86180.57	SET CDOT TYPE 1 ALUMINUM CAP STAMPED PLS 27937
503	70073.15	87455.31	SET CDOT TYPE 1 ALUMINUM CAP STAMPED PLS 27937
504	69971.62	87452.64	SET CDOT TYPE 1 ALUMINUM CAP STAMPED PLS 27937
505	70005.42	86169.90	SET CDOT TYPE 1 ALUMINUM CAP STAMPED PLS 27937
506	70054.86	85706.77	SET CDOT TYPE 1 ALUMINUM CAP STAMPED PLS 27937
507	70254.87	84645.70	SET CDOT TYPE 1 ALUMINUM CAP STAMPED PLS 27937
508	70230.30	84641.07	SET CDOT TYPE 1 ALUMINUM CAP STAMPED PLS 27937

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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 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.
3. This right-of-way survey meets the minimum accuracy tolerances for CDOT Class B - Secondary as defined in Chapter 5 of the CDOT Survey Manual, dated Nov. 2011.

QUANTITY OF MONUMENTS TO BE SET

CAP TYPE	MONUMENT TYPE									
	1	1A	2	2A	3	3A	4	5	5(S)	6
REFERENCE										
ROW	9									
CONTROL										
ALIQUOT CORNER										
PERMANENT EASEMENT										
PROJECT POINTS										
WITNESS POST (REQUIRED)										

General Notes:

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 supplied for this project.
3. Right-of-Way established using control shown on the Land Survey Control Diagram, and the coordinates are specific to this project.
4. All centerline and offset stationing may not represent the centerline as constructed in the field.
5. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July 4, 2006 found in The Colorado Department of Transportation, M & S Standards for survey monument descriptions.
6. 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.

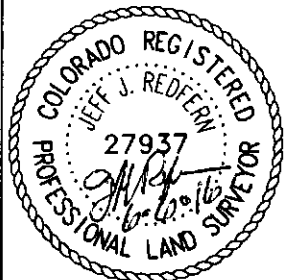
Note: Type I monuments are 3/4" aluminium caps with magnet set on a 3/4" X 36" aluminium finned rod, per CDOT Standard Plan No. M-629-1 for Survey Monuments, issued July, 2012.

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 (R.O.W. MONUMENTS)

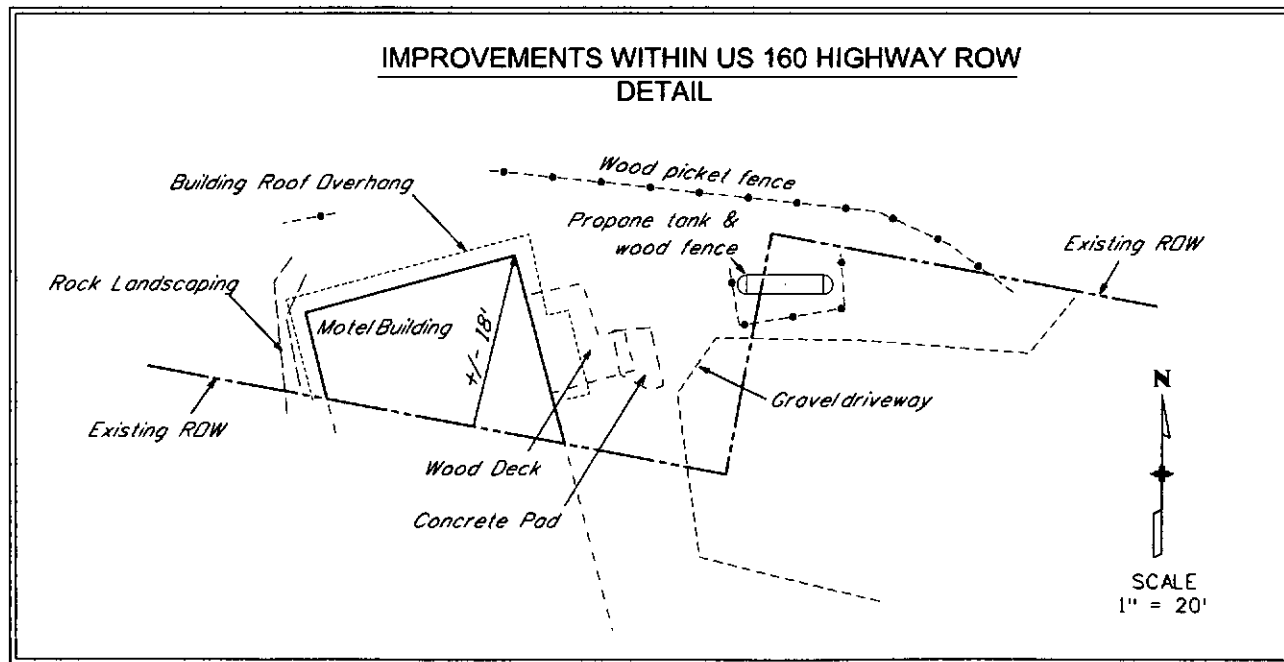
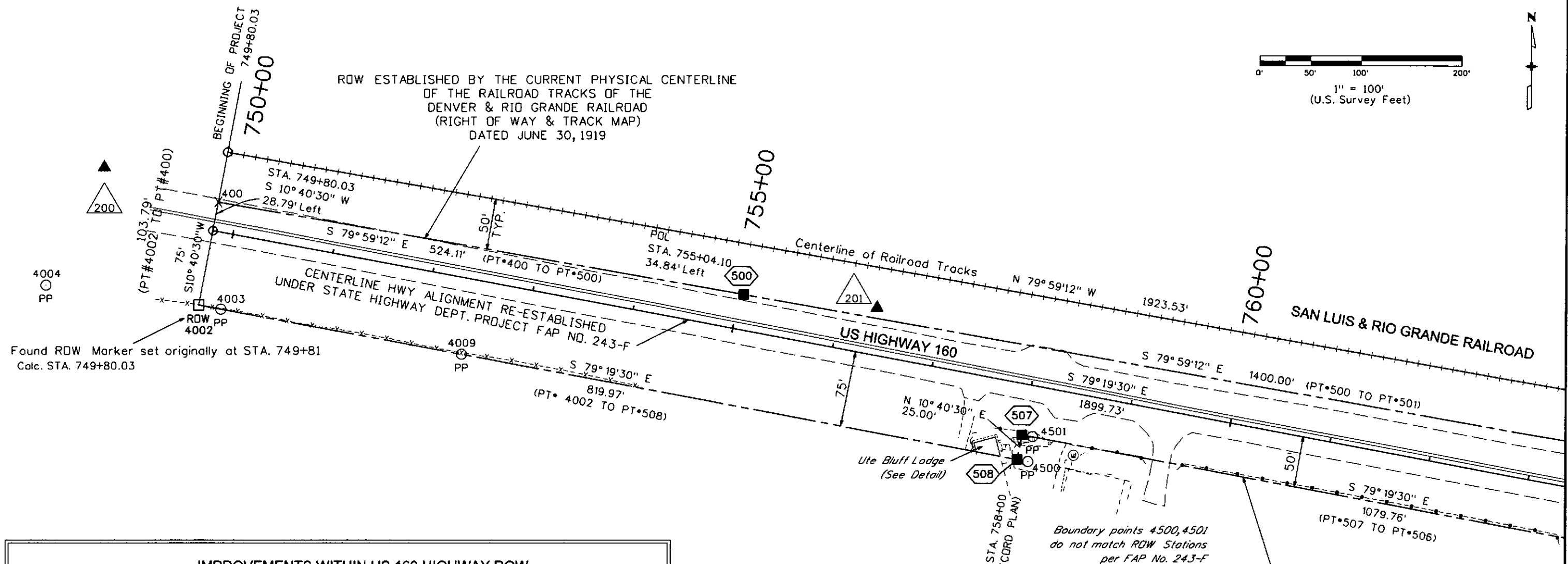
I, Jeff J. Redfern, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, adequate research, calculations and evaluation of survey evidence were performed and the Right-of-Way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



Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX	mm/dd/yy	XXXXXXXX	XXX

Right of Way Plans			
Plan Sheet			
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Project Location: US 160 at Rio Grande CR 19 Intersection			
East of Southfork			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
1940	6-01-16	7.01 of 7.03	7.01



Sheet Revisions		
Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Sheet Revisions		
Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Right of Way Plans			
Plan Sheet			
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19401	6-01-16	7.03 of 7.03	7.03

