

RIGHT OF WAY PLANS OF THE

BITTER SPRINGS - UTAH STATE LINE HIGHWAY

MP 526 - MP 527 SOUTH OF PAGE

089 CN 526 H8641

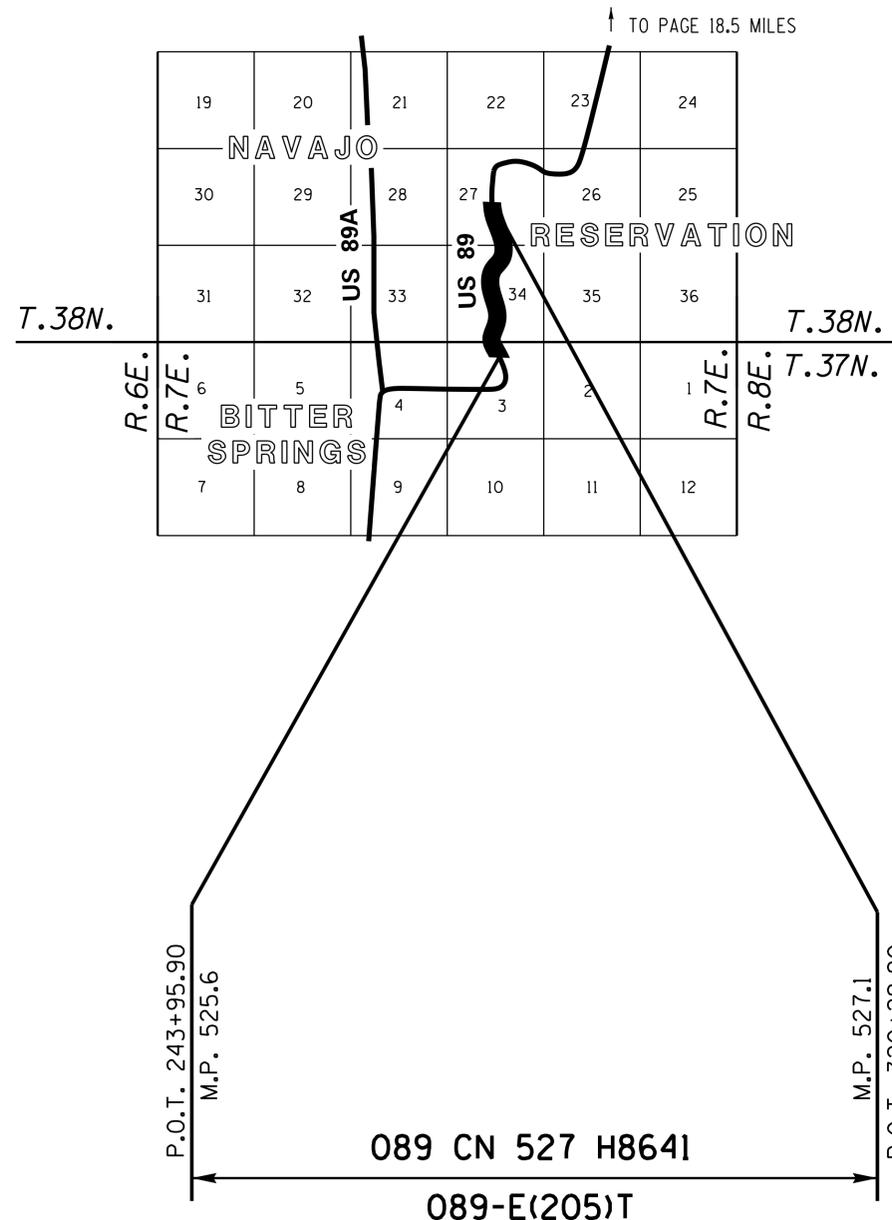
089-E(205)T

**ARIZONA DEPARTMENT
OF
TRANSPORTATION**
INTERMODAL
TRANSPORTATION
DIVISION



★ PROJECT LOCATION

COUNTY NAME: COCONINO
LENGTH OF PROJECT: 1.5 MILES
ADOT DISTRICT: FLAGSTAFF (F)
DRAWING NUMBER: D-03-T-705



SHEET INDEX

COVER SHEET	1
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TOTAL SHEETS 18

APPROVED IN ACCORDANCE WITH
ARIZONA STATE TRANSPORTATION BOARD
RESOLUTION 2013-12-A-052 DATED 12-13-13

...\\DGN-DWG Files\089-rw526_cvr.dgn

Professional Land
Surveyor AZ No. 19817
Digitally signed by Jim
Crume
Date: 2015.09.28
08:19:27 -0700
(Expires 6-30-17)
ELECTRONIC SEAL
<http://www.btr.state.az.us/>

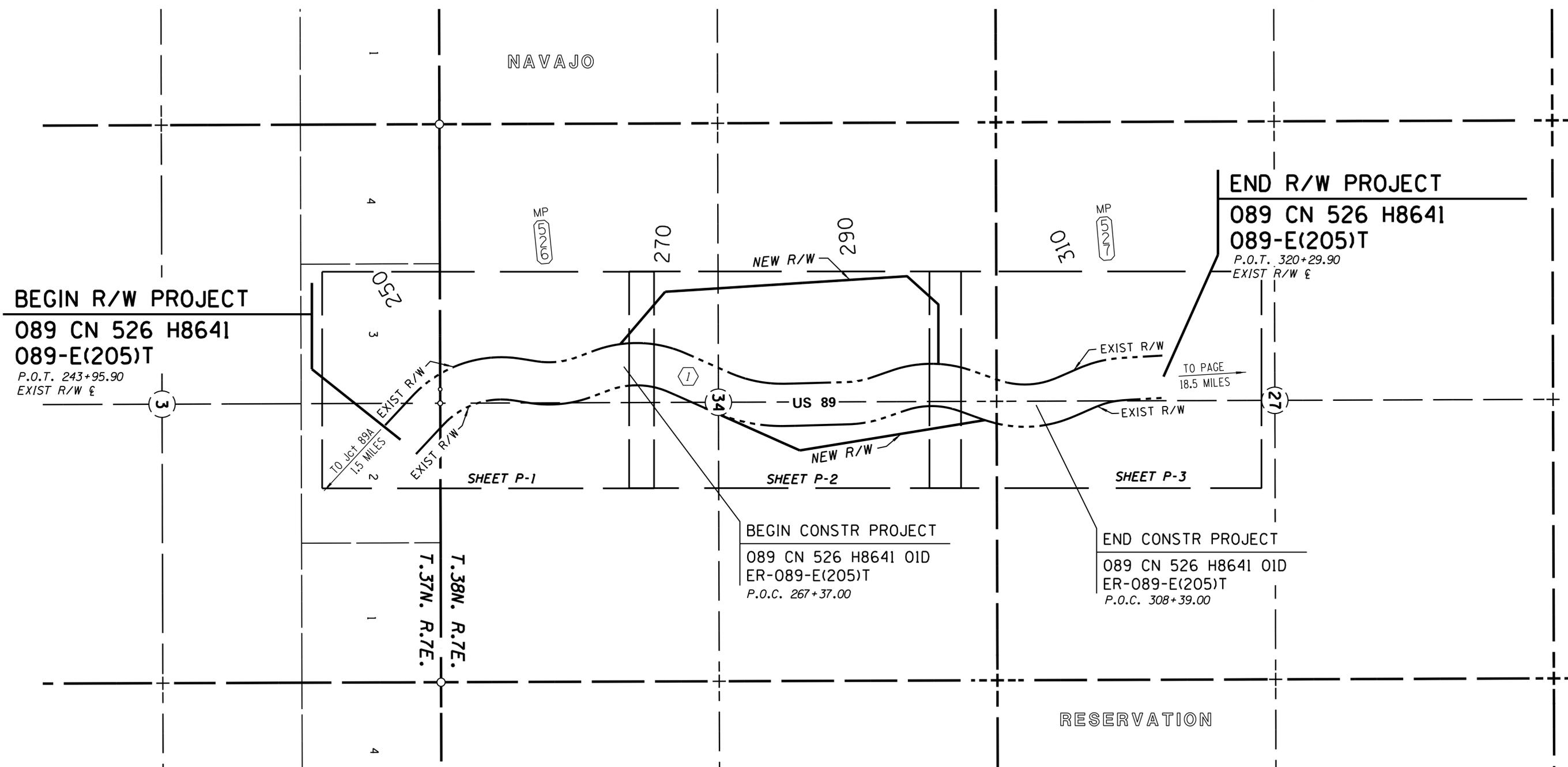


RIGHT OF WAY - STANDARD ABBREVIATIONS & SYMBOLS

<p>A</p> <p>Acres Ahead And Husband And Others And Wife Approximate Avenue</p> <p>B</p> <p>Back Book Boulevard Brass Cap Bureau of Indian Affairs Bureau of Land Management Bureau of Reclamation</p> <p>C</p> <p>Calculated Center Centerline Construction Corner County Curve Information Curve to Spiral Degree of Curve Delta Length of Curve Point of Compound Curve Point of Curvature Point of Intersection Point of Reverse Curve Point of Reverse Spiral Point of Tangent Point on Curve Point on Tangent Point on Semi-Tangent Radius Spiral rate of change Spiral to Curve Spiral to Tangent Tangent Length Tangent to Spiral</p>	<p>Ac. Ahd. et vir et al et ux Approx. Ave.</p> <p>Bk. Bk. Blvd. B.C. B.I.A. B.L.M. B.O.R.</p> <p>(C) Ctr. ¢ Constr. Cor. Co.</p> <p>C.S. D Δ L P.C.C. P.C. P.I. P.R.C. P.R.S. P.T. P.O.C. P.O.T. P.O.S.T. R a S.C. S.T. T T.S.</p>	<p>D</p> <p>Degrees Department Docket Drainage Easement Drive</p> <p>E</p> <p>Easement East Electrical Equation Existing</p> <p>F</p> <p>Federal Feet Flowage Easement Final Order of Condemnation Found</p> <p>H</p> <p>Highway Highway Easment Deed Homestead Entry Survey</p> <p>I</p> <p>Inch Irrigation</p> <p>J</p> <p>Junction</p> <p>L</p> <p>Lane Left Local Tangent Bearing</p> <p>M</p> <p>Measured Mile Post Mineral Survey Minutes Miscellaneous Monument</p> <p>N</p> <p>North Not to Scale Number</p> <p>P</p>	<p>° Dept. Dkt. DE Dr.</p> <p>Esmt E. Elec. Equa. Exist.</p> <p>Fed. ' FE FOC Fd.</p> <p>Hwy. HED HES</p> <p>In. or " Irr.</p> <p>Jct.</p> <p>Ln. Lt. L.T.B.</p> <p>(M) M.P. M.S. ' Misc. Mon.</p> <p>N. N.T.S. No.</p>	<p>Page Parcel Parkway Place Ponding Easement Public Utility Easment</p> <p>Q</p> <p>Quit Claim Deed</p> <p>R</p> <p>Railroad Range Record Right Right of Way Road</p> <p>S</p> <p>Seconds Section Sheet Slope Easement South Special Warranty Deed Square Square Feet State Route Station Street Subdivision</p> <p>T</p> <p>Telegraph Telephone Township Temporary Temporary Construction Easement Traffic Interchange</p> <p>U</p> <p>United States General Land Office</p> <p>W</p> <p>West Warranty Deed</p>	<p>Pg. Par. Pkwy. Pl. PE PUE</p> <p>QCD</p> <p>R.R. R. (R) Rt. R/W Rd.</p> <p>"</p> <p>Sec. Sht. SE S. SWD Sq. S.F. S.R. Sta. St. Subd.</p> <p>Tlg. Tel. T. Temp. TCE</p> <p>T.I. U.S.G.L.O.</p> <p>W. WD</p>	<p>Boundary Lines</p> <p>City Limit Line County Line Forest-City Limit Line Forest-Reservation Line Land Grant Boundary Line National-State Boundary Line</p> <p>Centerlines</p> <p>Exist. Centerline w/ticks Exist. Centerline wo/ticks New Constr. Centerline New Survey Centerline Railroad Centerline Centerline on Results of Survey</p> <p>Control Lines</p> <p>Exist. Access Control Line New Access Control Line</p> <p>Easement Lines</p> <p>Exist. Easement Line Exist. Drainage Easement Line New Perpetual Easement Line TCE Line</p> <p>Misc. Lines</p> <p>Ditch-River Line Meander Line Mining Claim Line</p> <p>Property Lines</p> <p>Lease Property Line Property Line Subdivision Property/Road Line Additional area to be acquired</p> <p>Public Land Survey Lines</p> <p>Mid Section Line Section Line Sixteenth (1/16) Line Township-Range Line</p> <p>R/W Lines</p> <p>Exist. ADOT R/W Line Exist. Non-ADOT R/W Line New R/W Line Railroad R/W Line Railroad-Highway R/W Line</p> <p>Topographic Features</p> <p>Cut Slope Limit Line Exist. Fence Line Exist. Topo Line Fill Slope Limit Line New Fence Line</p>
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Break Line		Property Anchor Bar		 SECTION 7 MARICOPA CO.	 Found or Set Section Corner	 Found or Set Quarter Corner	 Found or Set Center Quarter Corner
Data Circle		Property-Lease & Unpatented Mining Claim Anchor Bar		 Unfound Section Corner	 Unfound Quarter Corner	 Unfound Center Quarter Corner	
Data Hex		Property Limit Arrow		 Mile Post Marker (approximate location)			
Data Square		Property-Lease & Unpatented Mining Claim Limit Arrow					
Dimension Arrow		Parcel Bubble					
Dimension Tie		Survey Control Pt or Angle Point					
Exist. ADOT R/W Monument							
New R/W Monument							
Centerline Control or Supplemental Monument							

DRAWING NO. D-03-T-705		ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION RIGHT OF WAY PLANS SECTION		Professional Land Surveyor AZ No. 19817 Digitally signed by Jim Crume Date: 2015.09.28 08:19:45 -07'00' (Expires 6-30-17) ELECTRONIC SEAL http://www.btr.state.az.us/
SURVEY	SEE ATTACHED SURVEY	HIGHWAY NAME:	BITTER SPRINGS-UTAH STATE LINE	
DRAWN/DATE	B.CRUME/DEC2013	FEDERAL AID NO.:	089-E(205)T	
ADOT REVIEW	M. HINEMAN	PROJECT NO.:	089 CN 526 H8641	
ROUTE NO.:	US 89	LOCATION:	MP 526 - MP 527 SOUTH OF PAGE	SHEET 5-1



VICINITY MAP

0 250 500
Scale

#	ID.	SEC.	T.	R.	TYPE	BK./DKT.	PAGE	WIDTH	PARCEL NO.
1	27 & 34	38N	7E	LEASE	STRIP MAP 3-T-564A			400'	---

- REFERS TO ITEM NUMBER IN EXISTING R/W REPORT DATED 11-13-13.

CHANGE ORDER REVISIONS				DRAWING NO.	ARIZONA DEPARTMENT OF TRANSPORTATION	
C.O. NO.	DATE	BY	DESCRIPTION OF REVISIONS	D-03-T-705	INTERMODAL TRANSPORTATION DIVISION	
				SURVEY	RIGHT OF WAY PLANS SECTION	
				DRAWN/DATE	BITTER SPRINGS-UTAH STATE LINE	
				ADOT REVIEW	FEDERAL AID NO.: 089-E(205)T	
					PROJECT NO.: 089 CN 526 H8641	
				ROUTE NO.: US 89	LOCATION: MP 526 - MP 527 SOUTH OF PAGE	

Professional Land
Surveyor AZ No. 19817
Digitally signed by Jim
Crume
Date: 2015.09.28
08:20:29 -0700
(Expires 6-30-17)
ELECTRONIC SEAL
<http://www.btr.state.az.us/>

BUREAU OF INDIAN AFFAIRS APPLICATION SHEET

U.S. DEPARTMENT OF INTERIOR
BUREAU OF INDIAN AFFAIRS
INDIAN AGENCY OFFICE
_____, ARIZONA

STATE OF ARIZONA
COUNTY OF MARICOPA SS

APPLICANT'S CERTIFICATE

I, Dallas Hammit, do hereby certify that I am the Senior Deputy State Engineer for the State of Arizona hereinafter designated the applicant, that Paula I. Gibson who subscribed to the foregoing affidavit is employed by the applicant as Chief R/W Agent and that she was directed by the applicant to survey the location of a highway centerline and to prepare these plans; that the location of said centerline, 1.4 miles in length beginning at Station 243+95.90 and ending at Station 320+29.90, is accurately represented on these plans; that such survey as represented on these plans has been adopted by the applicant as the definite location of the highway centerline and right of way hereby shown, and that these plans have been prepared to be filed for the approval of the Secretary of the Interior or his duly authorized representative as part of the application for said right of way to be granted to the applicant, its successors and assigns, with the right to construct, maintain, and repair improvements thereon and thereover, for such purposes, and with the further right in the applicant, its successors and assigns, to transfer this right of way by assignment, grant or otherwise.

Date: 28-Jan-2014

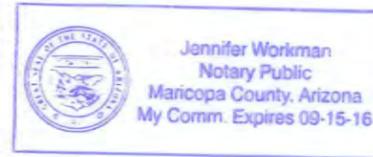
Dallas Z Hammit
Senior Deputy State Engineer

These plans are hereby approved pursuant to the provisions of the act of February 5, 1948 (62 Stat. 17) and Departmental Regulations 25 CFR 169 subject to any prior valid existing right of adverse claim, and also subject to any and all conditions stated in Resolution No. _____ adopted by the _____ Tribal Council on _____, 20 ____

Paula I. Gibson being first duly sworn, deposes and states that she is the Chief R/W Agent for the State of Arizona, that the survey of the highway centerline was made and that these plans were prepared from field notes of said survey, and that the right of way is 1.4 miles in length, beginning at Station 243+95.90 and ending at Station 320+29.90, and said right of way is accurately delineated on the plans attached.

Paula I. Gibson
Chief R/W Agent

Subscribed and sworn to before me this 28th day of January, 20 14



Jennifer Workman
Notary Public, My Commission Expires:
January 15, 20 14

Date _____

This sheet is a part of the R/W plans as indicated by the sheet number in the lower right had corner, however, for use as an application, this sheet shall become the first sheet of the application plans.

Application is hereby made for highway right of way _____

Arizona Department of Transportation

Date: 01-28-14 Paula I. Gibson
Chief R/W Agent

OWNERSHIP RECORD

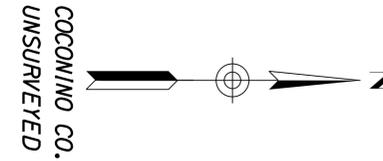
PARCEL NUMBER	OWNER	DESCRIPTION OF AREA REQUIRED	AREA REQUIRED		SHEET NO.
			NET EXCLUDING (EXISTING R/W)	NEW EASEMENTS	
3-1668	U.S.A., Dept. of Interior, Bureau of Indian Affairs, Navajo Nation	SW4, SE4, N2 Protracted Sec. 34 T.38N., R.7E.	2,642,778	/	P-1 TO
		SW4 Protracted Sec. 27 T.38N., R.7E.		/	P-3

ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED

CHANGE ORDER REVISIONS				DRAWING NO.	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION RIGHT OF WAY PLANS - SECTION		Professional Land Surveyor AZ No. 19817
C.O. NO.	DATE	BY	DESCRIPTION OF REVISIONS	D-03-T-705	HIGHWAY NAME:		Jim Crume
				SURVEY	SEE ATTACHED SURVEY	Digitally signed on 2014.01.28	
				DRAWN/DATE	B. CRUME/DEC2013	08:53:47 -07'00'	
				ADOT REVIEW	M. HINEMAN	ELECTRONIC SEAL	
						FEDERAL AID NO.: 089-E(205)T	
						PROJECT NO.: 089 CN 526 H8641	
						Certified Federal Surveyor No. 1293	
						(Expires 10-2-15)	
				ROUTE NO.: US 89	LOCATION: MP 526 - MP 527 SOUTH OF PAGE	SHEET BIA-1	

RESULTS OF SURVEY

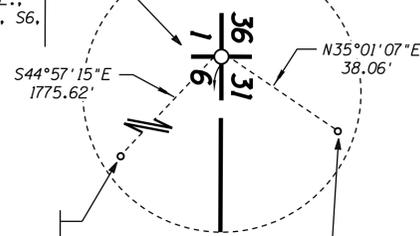
SECTIONAL CONTROL & KEY MAP LAYOUT



① ADDITIONAL EXISTING SECTIONAL MONUMENTATION ALONG THE TOWNSHIP LINE WAS NOT LOCATED AS PART OF THIS SURVEY.

300
Sec. Cor.
Fd. 3" BLM Brass Cap,
on 2.5" Iron Pipe, Flush
Stamped T.38N. R.7E.,
S33 S34 S4 S3, T.37N.
2012

311
Township Cor.
Fd. 3" BLM Brass Cap,
on 2.5" Iron Pipe, Flush,
Stamped T.38N., R.6E.,
R.7E., S36, S31, S1, S6,
T.37E., 2010.

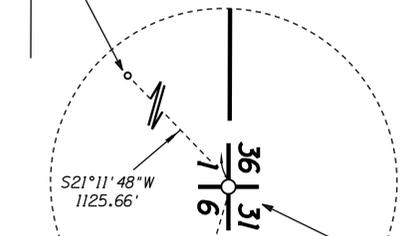


DETAIL "B"

313
Reference Marker
Fd. 3" BLM Brass Cap,
on 2.5" Iron Pipe, Flush,
Stamped RM, T.37N.,
R.7E., S6, 1775.5',
2010.

312
Reference Marker
Fd. 3" BLM Brass Cap,
on 2.5" Iron Pipe, Flush,
Stamped RM, T.38N.,
R.7E., S31, 38', 2010.

324
Reference Marker
Fd. 3" BLM Brass Cap,
on 2.5" Iron Pipe, Flush,
Stamped RM, T.37N.,
R.7E., S1, 1125.4',
2010.



DETAIL "A"

323
Reference Marker
Fd. 3" BLM Brass Cap,
on 2.5" Iron Pipe, Flush,
Stamped RM, T.37N.,
R.8E., S6, 25.4', 2010.

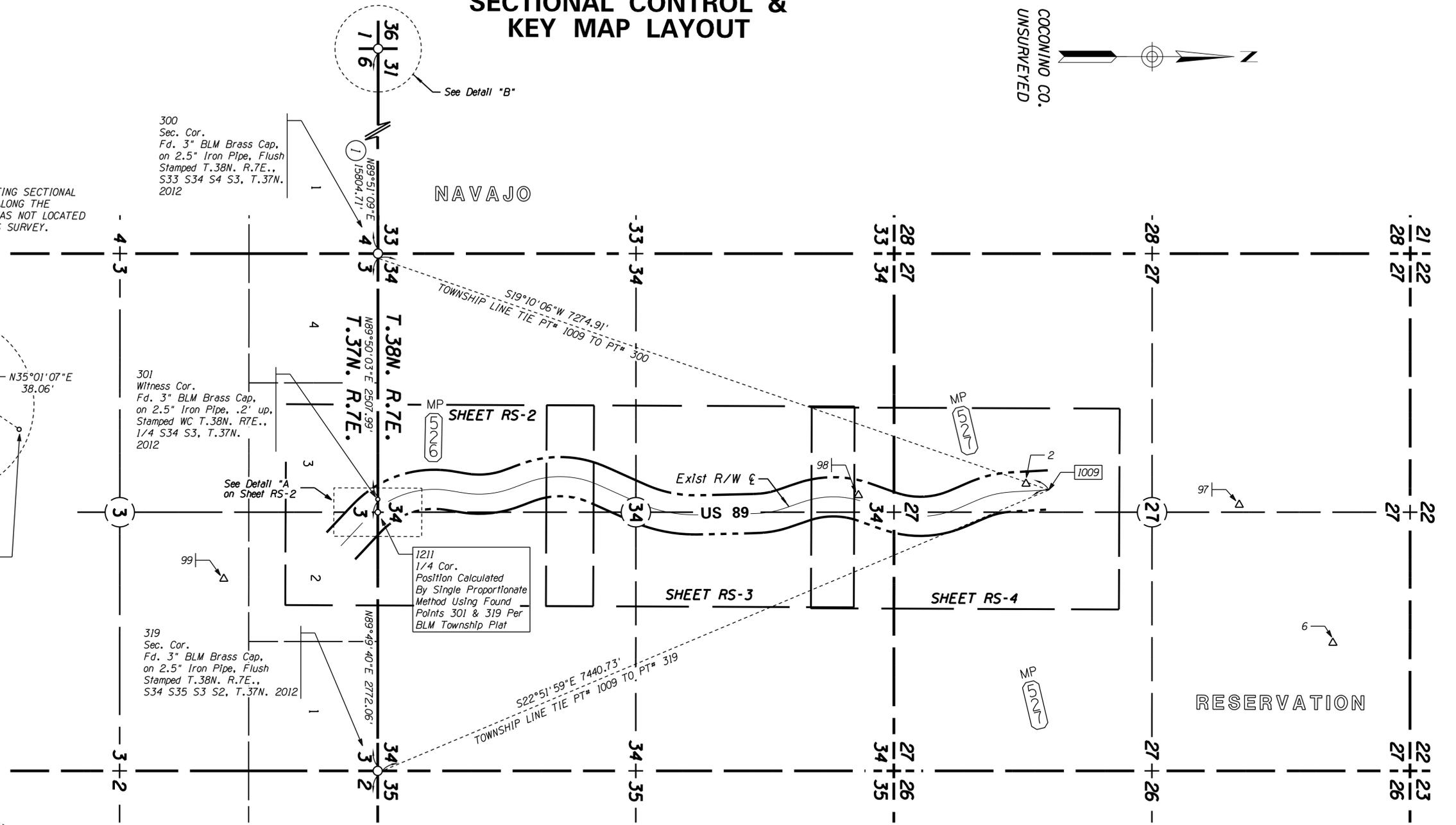
322
Township Cor.
Fd. 3" BLM Brass Cap,
on 2.5" Iron Pipe, Flush,
Stamped T.38N., R.7E.,
T.37N., R.8E., S36, S31,
S1, S6, 2010.

1211
1/4 Cor.
Position Calculated
By Single Proportionate
Method Using Found
Points 301 & 319 Per
BLM Township Plat

319
Sec. Cor.
Fd. 3" BLM Brass Cap,
on 2.5" Iron Pipe, Flush
Stamped T.38N. R.7E.,
S34 S35 S3 S2, T.37N. 2012

See Detail "A"

See Detail "B"



LEGEND

- 302 Set Monument
- 300 Found Monument
- 301 Calculated position
- Existing ADOT R/W monument

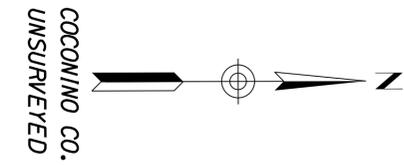
0 300 600
Scale

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CHANGE ORDER REVISIONS				DRAWING NO.	ARIZONA DEPARTMENT OF TRANSPORTATION	
C.O. NO.	DATE	BY	DESCRIPTION OF REVISIONS	D-03-T-705	INTERMODAL TRANSPORTATION DIVISION	
				SURVEY	RIGHT OF WAY PLANS SECTION	
				DRAWN/DATE	HIGHWAY NAME:	
				ADOT REVIEW	BITTER SPRINGS-UTAH STATE LINE	
					FEDERAL AID NO.:	
					089-E(205)T	
					PROJECT NO.:	
					089 CN 526 H8641	
				ROUTE NO.:	LOCATION:	
				US 89	MP 526 - MP 527 SOUTH OF PAGE	

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RESULTS OF SURVEY

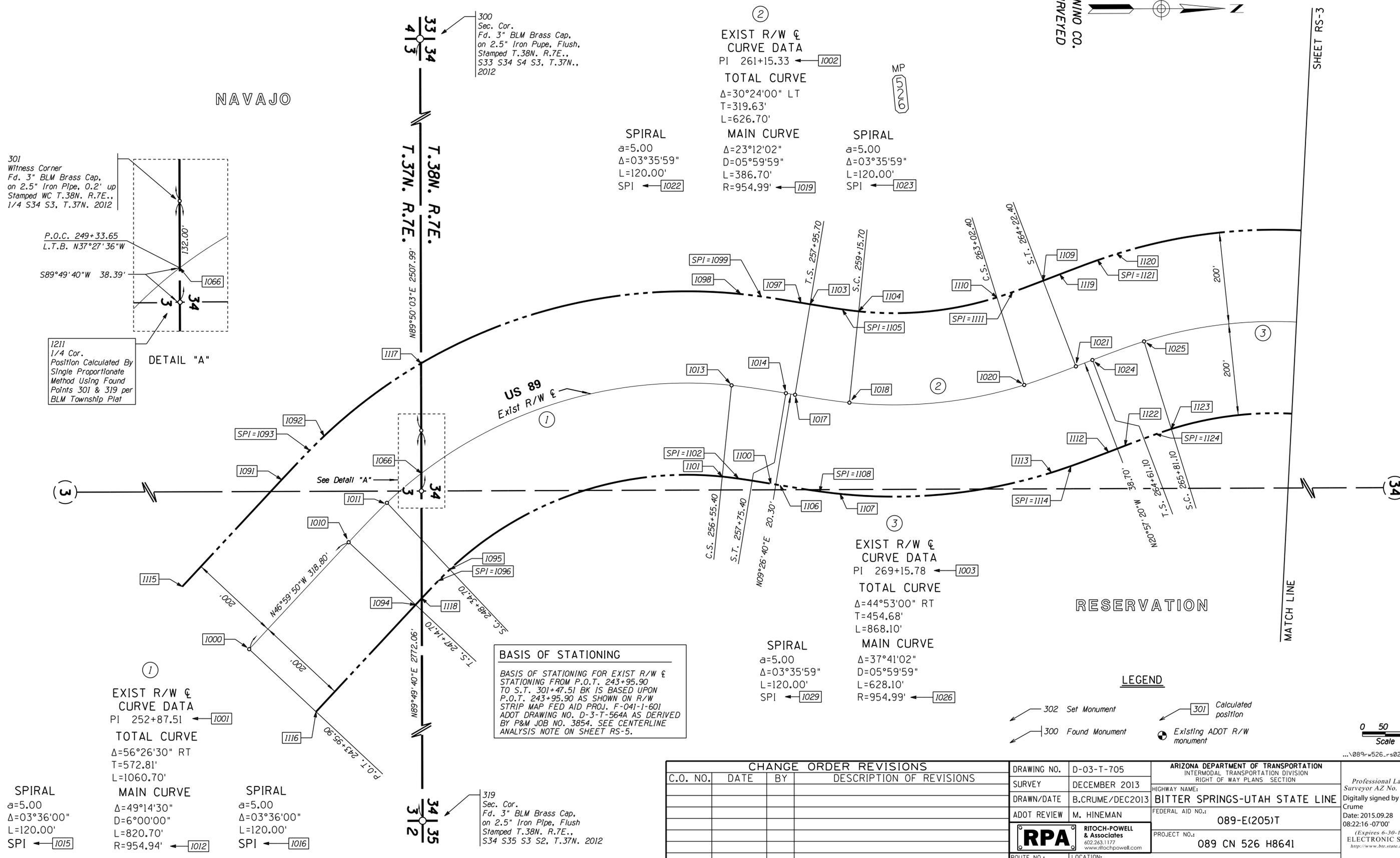


SHEET RS-3

NAVAJO

RESERVATION

MATCH LINE



301
Witness Corner
Fd. 3" BLM Brass Cap,
on 2.5" Iron Pipe, 0.2' up
Stamped WC T.38N. R.7E.,
1/4 S34 S3, T.37N. 2012

P.O.C. 249+33.65
L.T.B. N37°27'36"W

S89°49'40"W 38.39'

DETAIL "A"

1211
1/4 Cor.
Position Calculated By
Single Proportionate
Method Using Found
Points 301 & 319 per
BLM Township Plat

300
Sec. Cor.
Fd. 3" BLM Brass Cap,
on 2.5" Iron Pipe, Flush,
Stamped T.38N. R.7E.,
S33 S34 S4 S3, T.37N.,
2012

②
EXIST R/W &
CURVE DATA
PI 261+15.33 ← 1002
TOTAL CURVE
Δ=30°24'00" LT
T=319.63'
L=626.70'
SPIRAL
a=5.00
Δ=03°35'59"
L=120.00'
SPI ← 1022

③
EXIST R/W &
CURVE DATA
PI 269+15.78 ← 1003
TOTAL CURVE
Δ=44°53'00" RT
T=454.68'
L=868.10'
SPIRAL
a=5.00
Δ=03°35'59"
L=120.00'
SPI ← 1029

BASIS OF STATIONING
BASIS OF STATIONING FOR EXIST R/W &
STATIONING FROM P.O.T. 243+95.90
TO S.T. 301+47.51 BK IS BASED UPON
P.O.T. 243+95.90 AS SHOWN ON R/W
STRIP MAP FED AID PROJ. F-041-1-601
ADOT DRAWING NO. D-3-T-564A AS DERIVED
BY P&M JOB NO. 3854. SEE CENTERLINE
ANALYSIS NOTE ON SHEET RS-5.

①
EXIST R/W &
CURVE DATA
PI 252+87.51 ← 1001
TOTAL CURVE
Δ=56°26'30" RT
T=572.81'
L=1060.70'

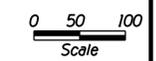
SPIRAL
a=5.00
Δ=03°36'00"
L=120.00'
SPI ← 1015

MAIN CURVE
Δ=49°14'30"
D=6°00'00"
L=820.70'
R=954.94' ← 1012

SPIRAL
a=5.00
Δ=03°36'00"
L=120.00'
SPI ← 1016

LEGEND

- ← 302 Set Monument
- ← 300 Found Monument
- ← 301 Calculated position
- ⊙ Existing ADOT R/W monument

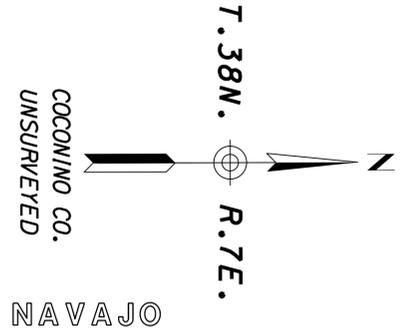
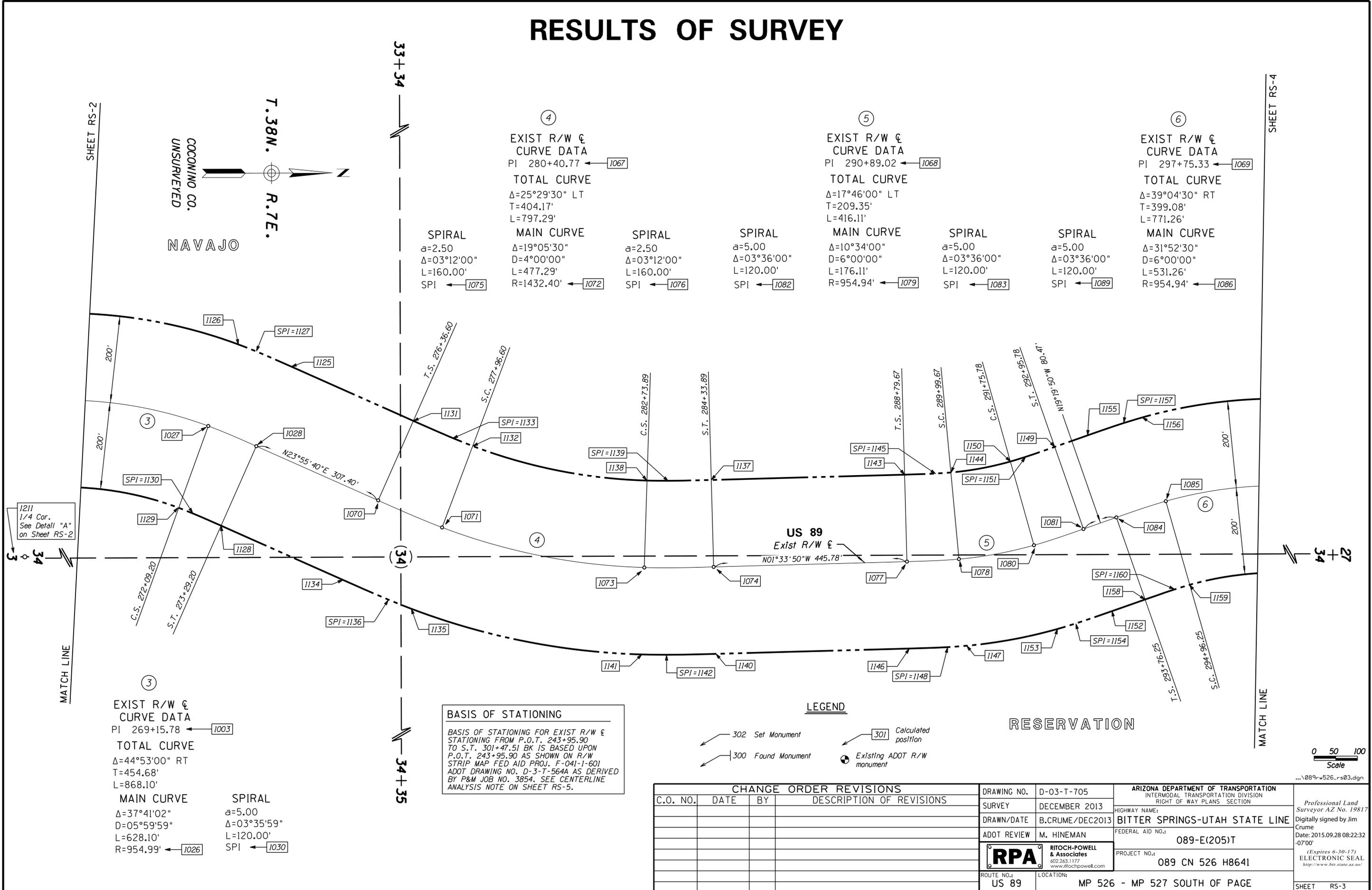


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CHANGE ORDER REVISIONS				DRAWING NO.	ARIZONA DEPARTMENT OF TRANSPORTATION	
C.O. NO.	DATE	BY	DESCRIPTION OF REVISIONS	D-03-T-705	INTERMODAL TRANSPORTATION DIVISION	
				SURVEY	RIGHT OF WAY PLANS SECTION	
				DRAWN/DATE	BITTER SPRINGS-UTAH STATE LINE	
				ADOT REVIEW	FEDERAL AID NO.: 089-E(205)T	
				RPA RITCHIE-POWELL & Associates 602.263.1177 www.ritchiepowell.com	PROJECT NO.: 089 CN 526 H8641	
					ROUTE NO.: US 89 LOCATION: MP 526 - MP 527 SOUTH OF PAGE	

Professional Land
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http://www.btr.state.az.us/

RESULTS OF SURVEY



④
EXIST R/W & CURVE DATA
PI 280+40.77 ← 1067
TOTAL CURVE
Δ=25°29'30" LT
T=404.17'
L=797.29'

SPIRAL
a=2.50
Δ=03°12'00"
L=160.00'
SPI ← 1075

MAIN CURVE
Δ=19°05'30"
D=4°00'00"
L=477.29'
R=1432.40' ← 1072

SPIRAL
a=2.50
Δ=03°12'00"
L=160.00'
SPI ← 1076

⑤
EXIST R/W & CURVE DATA
PI 290+89.02 ← 1068
TOTAL CURVE
Δ=17°46'00" LT
T=209.35'
L=416.11'

SPIRAL
a=5.00
Δ=03°36'00"
L=120.00'
SPI ← 1082

MAIN CURVE
Δ=10°34'00"
D=6°00'00"
L=176.11'
R=954.94' ← 1079

SPIRAL
a=5.00
Δ=03°36'00"
L=120.00'
SPI ← 1083

⑥
EXIST R/W & CURVE DATA
PI 297+75.33 ← 1069
TOTAL CURVE
Δ=39°04'30" RT
T=399.08'
L=771.26'

SPIRAL
a=5.00
Δ=03°36'00"
L=120.00'
SPI ← 1089

MAIN CURVE
Δ=31°52'30"
D=6°00'00"
L=531.26'
R=954.94' ← 1086

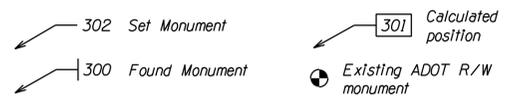
③
EXIST R/W & CURVE DATA
PI 269+15.78 ← 1003
TOTAL CURVE
Δ=44°53'00" RT
T=454.68'
L=868.10'

MAIN CURVE
Δ=37°41'02"
D=05°59'59"
L=628.10'
R=954.99' ← 1026

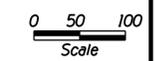
SPIRAL
a=5.00
Δ=03°35'59"
L=120.00'
SPI ← 1030

BASIS OF STATIONING
BASIS OF STATIONING FOR EXIST R/W & STATIONING FROM P.O.T. 243+95.90 TO S.T. 301+47.51 BK IS BASED UPON P.O.T. 243+95.90 AS SHOWN ON R/W STRIP MAP FED AID PROJ. F-041-1-601 ADOT DRAWING NO. D-3-T-564A AS DERIVED BY P&M JOB NO. 3854. SEE CENTERLINE ANALYSIS NOTE ON SHEET RS-5.

LEGEND



RESERVATION



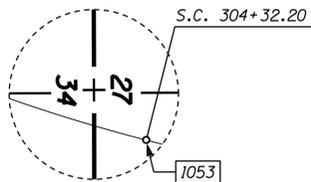
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RESULTS OF SURVEY

BASIS OF STATIONING
 BASIS OF STATIONING FOR EXIST R/W & STATIONING FROM P.O.T. 243+95.90 TO S.T. 301+47.51 BK IS BASED UPON P.O.T. 243+95.90 AS SHOWN ON R/W STRIP MAP FED AID PROJ. F-041-1-601 ADOT DRAWING NO. D-3-T-564A AS DERIVED BY P&M JOB NO. 3854. SEE CENTERLINE ANALYSIS NOTE ON SHEET RS-5.

NAVAJO



DETAIL "A"

SPIRAL

a=3.33
 $\Delta=05^{\circ}24'00''$
 L=180.00'
 SPI ← 1057

EXIST R/W & CURVE DATA

PI 307+24.53 ← 1006

TOTAL CURVE

$\Delta=43^{\circ}35'00''$ LT
 T=472.33'
 L=906.40'

MAIN CURVE

$\Delta=32^{\circ}47'00''$
 D=6°00'00"
 L=546.40'
 R=954.94' ← 1054

SPIRAL

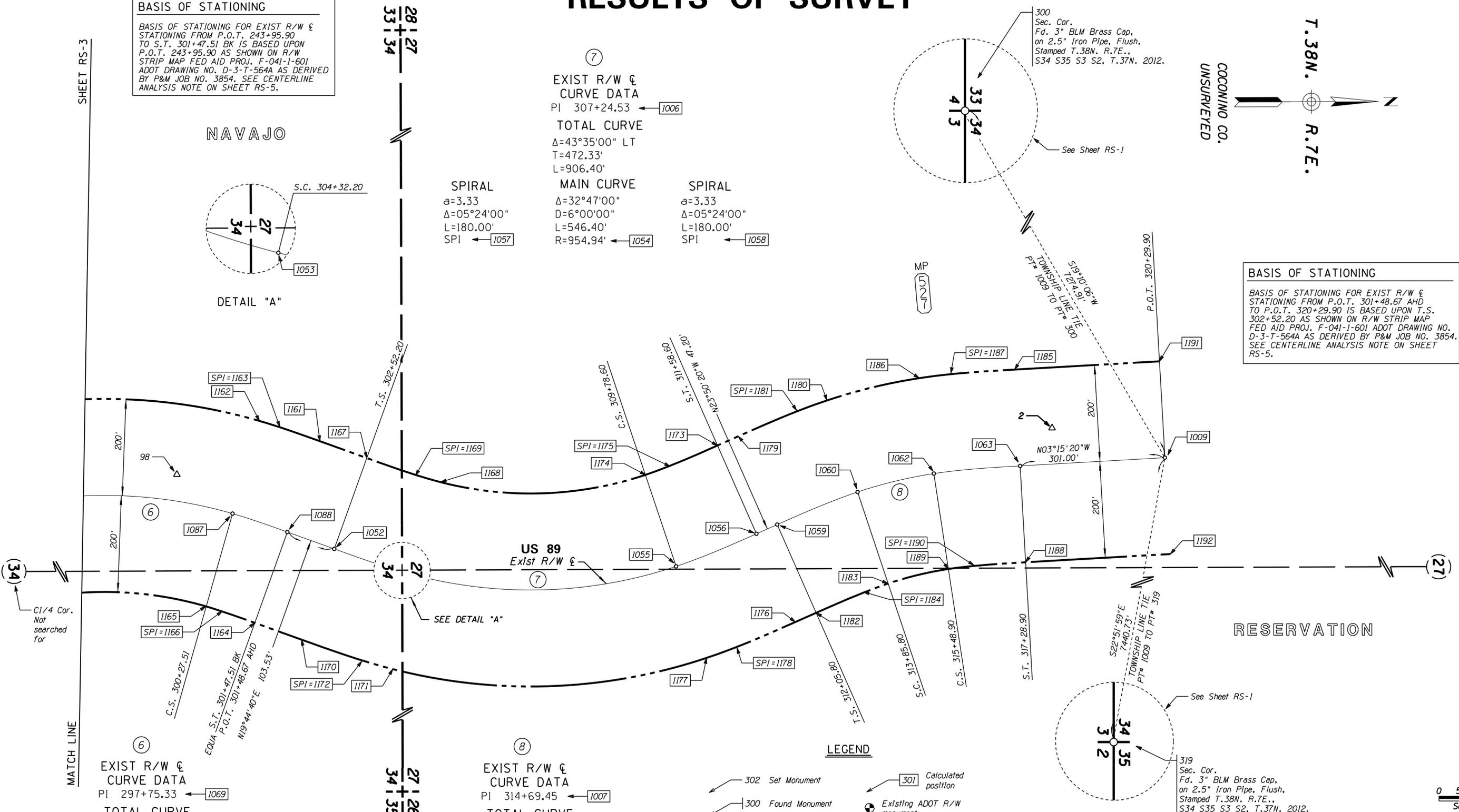
a=3.33
 $\Delta=05^{\circ}24'00''$
 L=180.00'
 SPI ← 1058

BASIS OF STATIONING
 BASIS OF STATIONING FOR EXIST R/W & STATIONING FROM P.O.T. 301+48.67 AHD TO P.O.T. 320+29.90 IS BASED UPON T.S. 302+52.20 AS SHOWN ON R/W STRIP MAP FED AID PROJ. F-041-1-601 ADOT DRAWING NO. D-3-T-564A AS DERIVED BY P&M JOB NO. 3854. SEE CENTERLINE ANALYSIS NOTE ON SHEET RS-5.

COCOONING CO. UNSURVEYED

T. 38N. R. 7E.

RESERVATION



LEGEND

- 302 Set Monument
- 300 Found Monument
- 301 Calculated position
- Existing ADOT R/W monument

EXIST R/W & CURVE DATA

PI 297+75.33 ← 1069

TOTAL CURVE

$\Delta=39^{\circ}04'30''$ RT
 T=399.08'
 L=771.26'

MAIN CURVE

$\Delta=31^{\circ}52'30''$
 D=6°00'00"
 L=531.26'
 R=954.94' ← 1086

SPIRAL

a=5.00
 $\Delta=03^{\circ}36'00''$
 L=120.00'
 SPI ← 1090

SPIRAL

a=3.33
 $\Delta=05^{\circ}23'58''$
 L=180.00'
 SPI ← 1064

EXIST R/W & CURVE DATA

PI 314+69.45 ← 1007

TOTAL CURVE

$\Delta=20^{\circ}35'00''$ RT
 T=263.65'
 L=523.10

MAIN CURVE

$\Delta=09^{\circ}47'05''$
 D=05°59'57"
 L=163.10'
 R=955.05' ← 1061

SPIRAL

a=3.33
 $\Delta=05^{\circ}23'58''$
 L=180.00'
 SPI ← 1065

CHANGE ORDER REVISIONS

C.O. NO.	DATE	BY	DESCRIPTION OF REVISIONS

DRAWING NO.	D-03-T-705	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION RIGHT OF WAY PLANS SECTION
SURVEY	DECEMBER 2013	
DRAWN/DATE	B.CRUME/DEC2013	HIGHWAY NAME: BITTER SPRINGS-UTAH STATE LINE
ADOT REVIEW	M. HINEMAN	FEDERAL AID NO.:
RPA RITOCH-POWELL & ASSOCIATES 602.263.1177 www.ritchpowell.com	PROJECT NO.:	089-E(205)T
	ROUTE NO.:	089 CN 526 H8641
LOCATION:	MP 526 - MP 527 SOUTH OF PAGE	Professional Land Surveyor AZ No. 19817 Digitally signed by Jim Crume Date: 2015.09.28 08:22:48 -0700 (Expires 6-30-17) ELECTRONIC SEAL http://www.btr.state.az.us/
US 89		SHEET RS-4

RESULTS OF SURVEY

GENERAL NOTES

FIVE NGS (UTILIZED P&M VALUE WHICH VARIES SLIGHTLY FROM PUBLISHED VALUES) AND ONE P&M PER JOB NO. 3854 CONTROL STATIONS WERE USED TO ESTABLISH THE CONTROL BASELINE FOR THIS SURVEY AND THEY ARE AS FOLLOWS:

ECHO NAD 83(1992) 36°35'20.70757"(N) 111°39'29.79762"(W)
Grid Coordinates N 2033809.003 E 775854.883
Ground Coordinates (Pt. 93) N 2034581.850 E 776149.708

D 7 NAD 83(1992) 36°35'52.79218"(N) 111°39'30.36789"(W)
Grid Coordinates N 2037053.341 E 775799.662
Ground Coordinates (Pt. 92) N 2037827.421 E 776094.466

C 403 NAD 83(1992) 36°38'17.22703"(N) 111°37'47.48023"(W)
Grid Coordinates N 2051682.759 E 784145.250
Ground Coordinates (Pt. 99) N 2052462.398 E 784443.225

F 403 NAD 83(1992) 36°39'59.90936"(N) 111°37'56.81163"(W)
Grid Coordinates N 2062064.060 E 783354.037
Ground Coordinates (Pt. 97) N 2062847.644 E 783651.712

P 499 NAD 83(1992) 36°41'19.84661"(N) 111°36'24.34579"(W)
Grid Coordinates N 2070170.931 E 790860.670
Ground Coordinates (Pt. 96) N 2070957.596 E 791161.197

CLIFF NAD 83(1992) 36°39'20.37699"(N) 111°37'58.30959"(W)
Grid Coordinates N 2058066.055 E 783243.828
Ground Coordinates (Pt. 98) N 2058848.120 E 783541.461

THE FOLLOWING PARAMETERS WERE SET FOR THE BASIS OF THIS SURVEY:

SYSTEM: UNITED STATES STATE PLANE 1983
ZONE: ARIZONA CENTRAL 0202
DATUM: NORTH AMERICAN 1983 (CONUS) EQUIVALENT TO WGS-84
GEOID MODEL: GEOID03 (CONTINENTAL US)

UNITS = INTERNATIONAL FEET (1 FOOT = 0.3048 METERS EXACTLY)

DIRECT SATELLITE MEASUREMENTS WERE MADE ON EACH POINT ON THE NORTH AMERICAN DATUM OF 1983 WITH AUTOMATIC TRANSLATIONS MADE TO THE STATE PLANE GRID SYSTEM.

GPS CALIBRATION AND TRANSLATION TO THE SURFACE WAS PERFORMED BY GPS SURVEY SOFTWARE. A GRID ADJUSTMENT FACTOR OF 1.00038 AND SCALE ORIGIN VALUES OF N=0.00, E=0.00, AS OBTAINED FROM ADOT (P&M PROJECT NO. 3854) WERE USED FOR THE TRANSLATION TO THE SURFACE.

ALL BEARINGS ARE GRID BEARINGS, DISTANCES ARE GROUND DISTANCES AND COORDINATES ARE GROUND COORDINATES.

THE INFORMATION SHOWN ON THIS RESULTS OF SURVEY WAS BASED ON AN OBSERVATION AND EVALUATION OF PHYSICAL CORROBORATING EVIDENCE IN THE FIELD AND A REVIEW AND ANALYSIS OF EXISTING DRAWINGS, PLATS, AND NOTES AVAILABLE AT THE TIME THE SURVEY WAS PREPARED.

THIS RESULTS OF SURVEY IS ON FILE IN THE FILE ROOM OF THE RIGHT OF WAY PLANS SECTION OF THE ARIZONA DEPARTMENT OF TRANSPORTATION, 205 SOUTH 17TH AVE, MD 612E, PHOENIX, AZ 85007. (602) 712-7270 SEE ADOT R/W FILE COPY FOR MOST CURRENT ADDITIONS OR REVISIONS.

FOR ADDITIONAL INFORMATION ON SECTION CORNER DESCRIPTIONS, SEE CORNER RECOVERY SHEETS IN THE ADOT R/W PLANS SECTION RECORDS.

CENTERLINE ANALYSIS

NO EXISTING R/W MONUMENTATION WAS FOUND. A BEST FIT FOR THE EXISTING R/W CENTERLINE WAS MADE BY UTILIZING THE EDGE OF PAVEMENT AND STRIPING TO MATCH THE P&M DERIVED CENTERLINE FOR CURVES 1, 2, 3, 7 AND 8. THE RECORD R/W STRIP MAP GEOMETRY FOR CURVE 5 WAS HELD AND CURVES 4 AND 6 WERE MODIFIED AS NEEDED TO MATCH AS CLOSELY AS POSSIBLE TO THE RECORD R/W STRIP MAP CENTERLINE GEOMETRY.

PUBLIC INFORMATION USED IN PREPARATION OF SURVEY				
ADOT RIGHT OF WAY PLANS AND AS-BUILTS				
PROJECT NO.	DWG NO.	ADOT TRACS NO.	DESCRIPTION	DATE
F-041-1(A)	---	---	AS-BUILTS	1956
F-041-1-601	D-3-T-564A	---	R/W STRIP MAP	1959
089-E(001)A	---	089 CN 524 H5840 O1C	AS-BUILTS	2009
GLO & BLM PLATS				
PLAT NO.	DESCRIPTION			DATE
1307-1	TOWNSHIP PLAT			2011
1307-1C	SUBDIVISION OF TOWNSHIP			2013
GLO & BLM FIELD NOTES				
BOOK	PAGES			
5995	1-40			

SECTION CORNERS & RM'S		
PT.	NORTHING	EASTING
300	2054028.00820	781117.76078
301	2054035.26917	783625.74053
311	2053987.28931	765313.10746
312	2054018.46323	765334.95068
313	2052730.73282	766567.65778
319	2054043.60459	786397.78576
322	2054077.75652	796957.77560
323	2054065.43699	796980.03365
324	2053028.24950	796550.76937
1211	2054035.66610	783757.74293

RPA SECONDARY CONTROL POINTS			
PT.	NORTHING	EASTING	DESCRIPTION
1	2044740.98369	777277.97775	CPNT SET PKNAIL
2	2060665.27693	783444.91101	CPNT SET PKNAIL
3	2050687.60360	767232.13252	CPNT SET 60D NAIL
4	2050805.87069	767625.33214	CPNT SET 60D NAIL
5	2063613.87420	787149.26348	CPNT SET 1/2" REBAR
6	2063810.13491	785057.60158	CPNT SET PKNAIL/SHINER
7	2055149.38821	793749.33109	CPNT SET 60D NAIL/SHINER
8	2055155.19345	791907.34364	CPNT SET 60DNAIL/SHINER

EXIST R/W LINE					
THE FOLLOWING LIST OF POINTS REPRESENTS THE EXISTING RIGHT OF WAY LINE AS DETERMINED BY AN ANALYSIS OF MONUMENTATION FOUND DURING THE COURSE OF THIS SURVEY AND THE EXISTING DOCUMENTATION LISTED HEREIN.					
LEFT SIDE			RIGHT SIDE		
PT.	STATION	OFFSET	PT.	STATION	OFFSET
1115	243+95.90	200.00 LT	1116	243+95.90	200.00 RT
1091	247+14.70	200.00 LT	1094	247+14.70	200.00 RT
1093	Spiral P. I.	---	1096	Spiral P. I.	---
1092	248+34.70	200.00 LT	1118	247+34.83	200.00 RT
1012	Radius Pt.	---	1096	Spiral P. I.	---
1117	250+54.13	200.00 LT	1095	248+34.70	200.00 RT
1012	Radius Pt.	---	1012	Radius Pt.	---
1098	256+55.40	200.00 LT	1101	256+55.40	200.00 RT
1099	Spiral P. I.	---	1102	Spiral P. I.	---
1097	257+75.40	200.00 LT	1100	257+75.40	200.00 RT
1103	257+95.70	200.00 LT	1106	257+95.70	200.00 RT
1105	Spiral P. I.	---	1108	Spiral P. I.	---
1104	259+15.70	200.00 LT	1107	259+15.70	200.00 RT
1019	Radius Pt.	---	1019	Radius Pt.	---
1110	263+02.40	200.00 LT	1113	263+02.40	200.00 RT
1111	Spiral P. I.	---	1114	Spiral P. I.	---
1109	264+22.40	200.00 LT	1112	264+22.40	200.00 RT
1119	264+61.10	200.00 LT	1122	264+61.10	200.00 RT
1121	Spiral P. I.	---	1124	Spiral P. I.	---
1120	265+81.10	200.00 LT	1123	265+81.10	200.00 RT
1026	Radius Pt.	---	1026	Radius Pt.	---
1126	272+09.20	200.00 LT	1129	272+09.20	200.00 RT
1127	Spiral P. I.	---	1130	Spiral P. I.	---
1125	273+29.20	200.00 LT	1128	273+29.20	200.00 RT
1131	276+36.60	200.00 LT	1134	276+36.60	200.00 RT
1133	Spiral P. I.	---	1136	Spiral P. I.	---
1132	277+96.60	200.00 LT	1135	277+96.60	200.00 RT
1072	Radius Pt.	---	1072	Radius Pt.	---
1138	282+73.89	200.00 LT	1141	282+73.89	200.00 RT
1139	Spiral P. I.	---	1142	Spiral P. I.	---
1137	284+33.89	200.00 LT	1140	284+33.89	200.00 RT
1143	288+79.67	200.00 LT	1146	288+79.67	200.00 RT
1145	Spiral P. I.	---	1148	Spiral P. I.	---
1144	289+99.67	200.00 LT	1147	289+99.67	200.00 RT
1079	Radius Pt.	---	1079	Radius Pt.	---
1150	291+75.78	200.00 LT	1153	291+75.78	200.00 RT
1151	Spiral P. I.	---	1154	Spiral P. I.	---
1149	292+95.78	200.00 LT	1152	292+95.78	200.00 RT
1155	293+76.25	200.00 LT	1158	293+76.25	200.00 RT
1157	Spiral P. I.	---	1160	Spiral P. I.	---
1156	294+96.25	200.00 LT	1159	294+96.25	200.00 RT
1086	Radius Pt.	---	1086	Radius Pt.	---
1162	300+27.51	200.00 LT	1165	300+27.51	200.00 RT
1163	Spiral P. I.	---	1166	Spiral P. I.	---
1161	301+47.51BK	200.00 LT	1164	301+47.51BK	200.00 RT
	301+48.67AHD	200.00 LT		301+48.67AHD	200.00 RT
1167	302+52.20	200.00 LT	1170	302+52.20	200.00 RT
1169	Spiral P. I.	---	1172	Spiral P. I.	---
1168	304+32.20	200.00 LT	1171	304+32.20	200.00 RT
1054	Radius Pt.	---	1054	Radius Pt.	---
1174	309+78.60	200.00 LT	1177	309+78.60	200.00 RT
1175	Spiral P. I.	---	1178	Spiral P. I.	---
1173	311+58.60	200.00 LT	1176	311+58.60	200.00 RT
1179	312+05.80	200.00 LT	1182	312+05.80	200.00 RT
1181	Spiral P. I.	---	1184	Spiral P. I.	---
1180	313+85.80	200.00 LT	1183	313+85.80	200.00 RT
1061	Radius Pt.	---	1061	Radius Pt.	---
1186	315+48.90	200.00 LT	1189	315+48.90	200.00 RT
1187	Spiral P. I.	---	1190	Spiral P. I.	---
1185	317+28.90	200.00 LT	1188	317+28.90	200.00 RT
1191	320+29.90	200.00 LT	1192	320+29.90	200.00 RT

CHANGE ORDER REVISIONS				DRAWING NO.	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION RIGHT OF WAY PLANS SECTION	
C.O. NO.	DATE	BY	DESCRIPTION OF REVISIONS	D-03-T-705	HIGHWAY NAME: BITTER SPRINGS-UTAH STATE LINE	
				DECEMBER 2013		
				DRAWN/DATE	FEDERAL AID NO.:	
				B.CRUME/DEC2013		
				ADOT REVIEW	PROJECT NO.:	
				M. HINEMAN		
				RPA RITOCH-POWELL & Associates 602.263.1177 www.rtochpowell.com	089-E(205)T	
					089 CN 526 H8641	
				ROUTE NO.:	(Expires 6-30-17) ELECTRONIC SEAL http://www.btr.state.az.us/	
				US 89		
				LOCATION:	MP 526 - MP 527 SOUTH OF PAGE	
					SHEET RS-5	

RESULTS OF SURVEY

CALCULATED POINTS		
PT.	NORTHING	EASTING
1000	2053659.17961	784102.65085
1001	2054267.28656	783450.59937
1002	2055167.65127	783600.37143
1003	2055926.88844	783309.60310
1006	2059619.48296	783855.02635
1007	2060335.84346	783538.49274
1009	2060899.58238	783506.42649
1010	2053876.61031	783869.50763
1011	2053960.25953	783783.49756
1012	2054616.35371	784477.36414
1013	2054713.59398	783527.38797
1014	2054832.33288	783544.59256
1015	2053931.18335	783810.99090
1016	2054753.40232	783531.46278
1017	2054852.35598	783547.92332
1018	2054971.09486	783565.12805
1019	2055068.34335	782615.10245
1020	2055353.22105	783526.61253
1021	2055466.13828	783486.05857
1022	2054931.28653	783561.05310
1023	2055391.41549	783514.67548
1024	2055502.27929	783472.21749
1025	2055615.19653	783431.66353
1026	2055900.07415	784343.17362
1027	2056231.83201	783447.66112
1028	2056342.49455	783494.01549
1029	2055577.00209	783443.60058
1030	2056269.35611	783461.56256
1052	2059174.92557	783695.46260
1053	2059346.10166	783750.89770
1054	2059582.68957	782825.72931
1055	2059884.73165	783731.64385
1056	2060051.51275	783664.12812
1057	2059287.91876	783736.01893
1058	2059941.70369	783712.64875
1059	2060094.68803	783645.05054
1060	2060261.46890	783577.53421
1061	2060563.55530	784483.54983
1062	2060419.83771	783539.37515
1063	2060599.06643	783523.52025
1064	2060204.49707	783596.52993
1065	2060479.20903	783530.33791
1066	2054035.55067	783719.35476
1067	2056992.91023	783782.61738
1068	2058051.80566	783753.70765
1069	2058701.86862	783525.66958
1070	2056623.47600	783618.69234
1071	2056770.88736	783680.84348
1072	2057277.85457	782341.15918
1073	2057236.95759	783772.97525
1074	2057396.92928	783771.58694
1075	2056720.99005	783661.96119
1076	2057290.28640	783774.49848
1077	2057842.53833	783759.42102
1078	2057962.37761	783753.63564

CALCULATED POINTS		
PT.	NORTHING	EASTING
1079	2057876.42899	782802.57137
1080	2058135.32715	783721.74609
1081	2058249.34903	783684.41065
1082	2057922.52367	783757.23728
1083	2058173.84477	783710.89708
1084	2058325.28643	783657.77228
1085	2058439.30831	783620.43684
1086	2058698.20635	784539.61159
1087	2058963.73750	783622.33102
1088	2059077.48671	783660.48914
1089	2058400.79069	783631.28585
1090	2059002.17575	783633.45798
1091	2053730.34619	783733.10087
1092	2053822.84898	783638.17605
1093	2053790.61338	783668.47850
1094	2054022.87444	784005.91439
1095	2054097.67009	783928.81906
1096	2054071.71891	783953.54020
1097	2054865.15112	783347.30353
1098	2054733.95971	783328.42758
1099	2054777.98494	783332.80378
1100	2054799.51464	783741.88159
1101	2054693.22824	783726.34836
1102	2054728.86947	783730.13005
1103	2054885.17422	783350.63429
1104	2054991.46125	783366.16772
1105	2054955.81939	783362.38583
1106	2054819.53774	783745.21236
1107	2054950.72847	783764.08837
1108	2054906.70391	783759.71210
1109	2055394.60955	783299.28695
1110	2055293.56018	783335.71837
1111	2055327.73045	783324.89992
1112	2055537.66702	783672.83020
1113	2055412.88193	783717.50669
1114	2055455.14764	783704.43300
1115	2053512.91548	783966.24409
1116	2053805.44374	784239.05761
1117	2054034.84578	783479.49896
1118	2054036.36888	783991.46200
1119	2055430.75056	783285.44587
1120	2055555.53567	783240.76937
1121	2055513.26994	783253.84307
1122	2055573.80803	783658.98912
1123	2055674.85739	783622.55770
1124	2055640.68713	783633.37614
1125	2056423.61151	783311.20400
1126	2056301.31082	783260.11728
1127	2056342.84179	783275.36494
1128	2056261.37759	783676.82698
1129	2056162.35320	783635.20497
1130	2056195.91654	783647.78065
1131	2056704.59296	783435.88086
1132	2056841.67306	783493.78898
1133	2056795.27625	783476.11877
1134	2056542.35905	783801.50383
1135	2056700.10165	783867.89797

CALCULATED POINTS		
PT.	NORTHING	EASTING
1136	2056646.65657	783847.78264
1137	2057391.47096	783571.66144
1138	2057242.66786	783573.05678
1139	2057292.29830	783574.36903
1140	2057402.38761	783971.51244
1141	2057231.24732	783972.89371
1142	2057288.32621	783974.62652
1143	2057837.08001	783559.49552
1144	2057944.37677	783554.44736
1145	2057908.66924	783557.54100
1146	2057847.99665	783959.34652
1147	2057980.37846	783952.82391
1148	2057936.32768	783956.93493
1149	2058183.14550	783495.68574
1150	2058081.10423	783529.23667
1151	2058115.56697	783519.39187
1152	2058315.55257	783873.13556
1153	2058189.55007	783914.25551
1154	2058232.17019	783902.38559
1155	2058259.08290	783469.04737
1156	2058385.08542	783427.92742
1157	2058342.46528	783439.79734
1158	2058391.48997	783846.49719
1159	2058493.53121	783812.94627
1160	2058459.06850	783822.79106
1161	2059145.05180	783472.24738
1162	2059019.34961	783430.21831
1163	2059061.88289	783442.39580
1164	2059009.92162	783848.73089
1165	2058908.12539	783814.44373
1166	2058942.51609	783824.53721
1167	2059242.49066	783507.22084
1168	2059395.65198	783557.13299
1169	2059343.57839	783543.50398
1170	2059107.36047	783883.70435
1171	2059296.55134	783944.66242
1172	2059232.09569	783928.47522
1173	2059970.67950	783481.19101
1174	2059821.47279	783541.91162
1175	2059872.44041	783524.59929
1176	2060132.34599	783847.06524
1177	2059947.99050	783921.37607
1178	2060011.12581	783900.62802
1179	2060013.85478	783462.11343
1180	2060198.20804	783387.80265
1181	2060135.07496	783408.55065
1182	2060175.52127	783827.98765
1183	2060324.72975	783767.26577
1184	2060273.76036	783784.57938
1185	2060587.70851	783323.84302
1186	2060389.74136	783341.65259
1187	2060455.39577	783331.36915
1188	2060610.42435	783723.19749
1189	2060449.93405	783737.09771
1190	2060503.19564	783729.29680
1191	2060888.22446	783306.74926
1192	2060910.94030	783706.10373

CHANGE ORDER REVISIONS				DRAWING NO.	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION RIGHT OF WAY PLANS SECTION	
C.O. NO.	DATE	BY	DESCRIPTION OF REVISIONS	D-03-T-705	Professional Land Surveyor AZ No. 19817	
				SURVEY	DECEMBER 2013	Digitally signed by Jim Crume
				DRAWN/DATE	B.CRUME/DEC2013	Date: 2015.09.28 08:23:21 -07'00'
				ADOT REVIEW	M. HINEMAN	(Expires 6-30-17)
						ELECTRONIC SEAL
						http://www.btr.state.az.us/
				ROUTE NO.:	US 89	
				LOCATION:	MP 526 - MP 527 SOUTH OF PAGE	
						SHEET RS-6

RIGHT OF WAY MONUMENTATION SURVEY

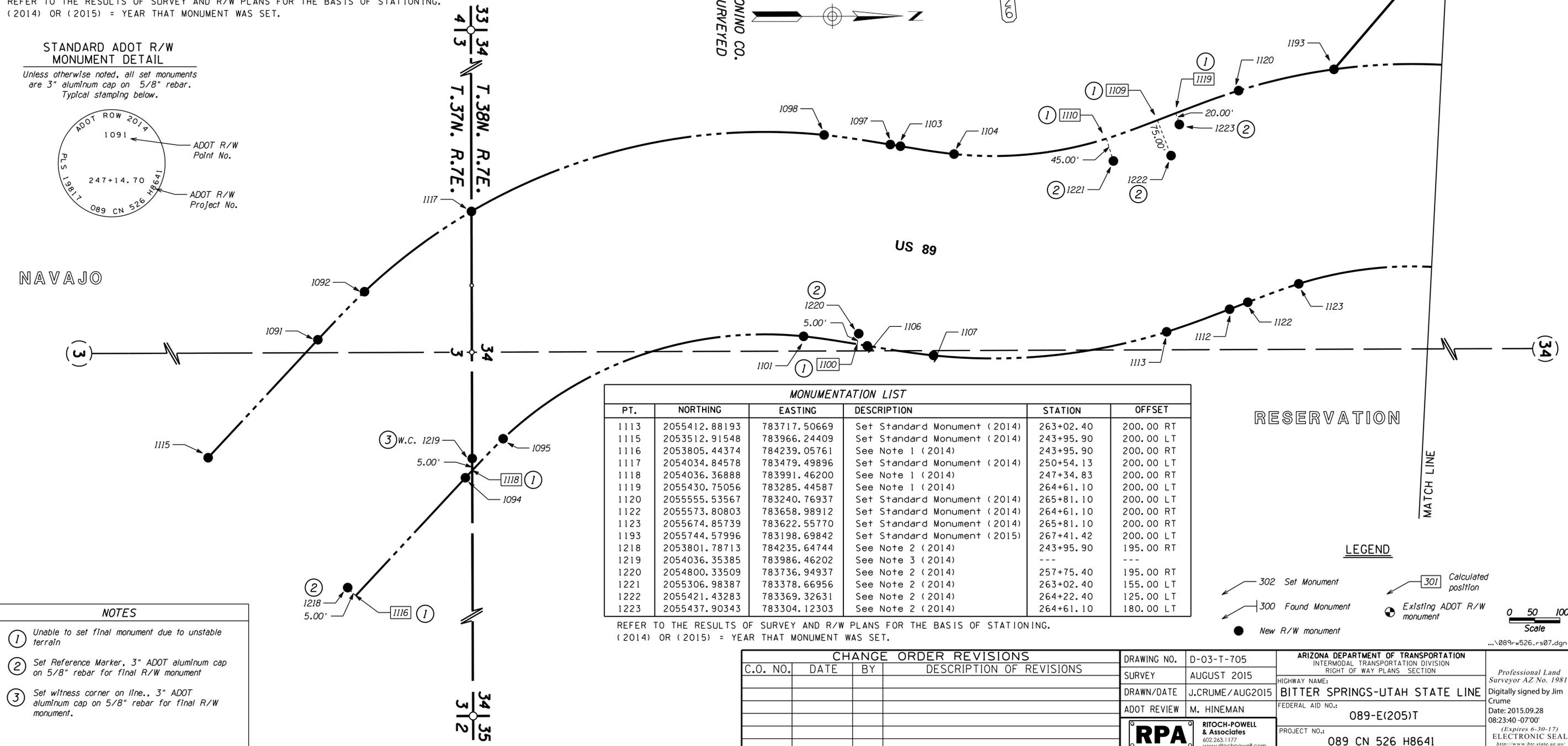
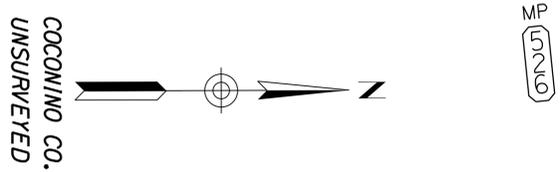
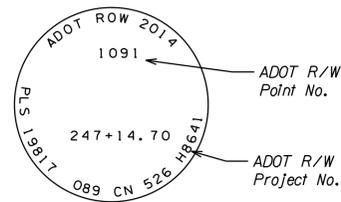
THIS SURVEY SUPPLEMENTS THE RESULTS OF SURVEY
AS SHOWN ON SHEETS RS-1 TO RS-6

MONUMENTATION LIST					
PT.	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
1091	2053730.34619	783733.10087	Set Standard Monument (2014)	247+14.70	200.00 LT
1092	2053822.84898	783638.17605	Set Standard Monument (2014)	248+34.70	200.00 LT
1094	2054022.87444	784005.91439	Set Standard Monument (2014)	247+14.70	200.00 RT
1095	2054097.67009	783928.81906	Set Standard Monument (2014)	248+34.70	200.00 RT
1097	2054865.15112	783347.30353	Set Standard Monument (2014)	257+75.40	200.00 LT
1098	2054733.95971	783328.42758	Set Standard Monument (2014)	256+55.40	200.00 LT
1100	2054799.51464	783741.88159	See Note 1 (2014)	257+75.40	200.00 RT
1101	2054693.22824	783726.34836	Set Standard Monument (2014)	256+55.40	200.00 RT
1103	2054885.17422	783350.63429	Set Standard Monument (2014)	257+95.70	200.00 LT
1104	2054991.46125	783366.16772	Set Standard Monument (2014)	259+15.70	200.00 LT
1106	2054819.53774	783745.21236	Set Standard Monument (2014)	257+95.70	200.00 RT
1107	2054950.72847	783764.08837	Set Standard Monument (2014)	259+15.70	200.00 RT
1109	2055394.60955	783299.28695	See Note 1 (2014)	264+22.40	200.00 LT
1110	2055293.56018	783335.71837	See Note 1 (2014)	263+02.40	200.00 LT
1112	2055537.66702	783672.83020	Set Standard Monument (2014)	264+22.40	200.00 RT

REFER TO THE RESULTS OF SURVEY AND R/W PLANS FOR THE BASIS OF STATIONING.
(2014) OR (2015) = YEAR THAT MONUMENT WAS SET.

STANDARD ADOT R/W MONUMENT DETAIL

Unless otherwise noted, all set monuments are 3" aluminum cap on 5/8" rebar.
Typical stamping below.



MONUMENTATION LIST					
PT.	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
1113	2055412.88193	783717.50669	Set Standard Monument (2014)	263+02.40	200.00 RT
1115	2053512.91548	783966.24409	Set Standard Monument (2014)	243+95.90	200.00 LT
1116	2053805.44374	784239.05761	See Note 1 (2014)	243+95.90	200.00 RT
1117	2054034.84578	783479.49896	Set Standard Monument (2014)	250+54.13	200.00 LT
1118	2054036.36888	783991.46200	See Note 1 (2014)	247+34.83	200.00 RT
1119	2055430.75056	783285.44587	See Note 1 (2014)	264+61.10	200.00 LT
1120	2055555.53567	783240.76937	Set Standard Monument (2014)	265+81.10	200.00 LT
1122	2055573.80803	783658.98912	Set Standard Monument (2014)	264+61.10	200.00 RT
1123	2055674.85739	783622.55770	Set Standard Monument (2014)	265+81.10	200.00 RT
1193	2055744.57996	783198.69842	Set Standard Monument (2015)	267+41.42	200.00 LT
1218	2053801.78713	784235.64744	See Note 2 (2014)	243+95.90	195.00 RT
1219	2054036.35385	783986.46202	See Note 3 (2014)	---	---
1220	2054800.33509	783736.94937	See Note 2 (2014)	257+75.40	195.00 RT
1221	2055306.98387	783378.66956	See Note 2 (2014)	263+02.40	155.00 LT
1222	2055421.43283	783369.32631	See Note 2 (2014)	264+22.40	125.00 LT
1223	2055437.90343	783304.12303	See Note 2 (2014)	264+61.10	180.00 LT

REFER TO THE RESULTS OF SURVEY AND R/W PLANS FOR THE BASIS OF STATIONING.
(2014) OR (2015) = YEAR THAT MONUMENT WAS SET.

- NOTES**
- ① Unable to set final monument due to unstable terrain
 - ② Set Reference Marker, 3" ADOT aluminum cap on 5/8" rebar for final R/W monument
 - ③ Set witness corner on line., 3" ADOT aluminum cap on 5/8" rebar for final R/W monument.

LEGEND

- ① 302 Set Monument
- ② 300 Found Monument
- ③ 301 Calculated position
- Existing ADOT R/W monument
- New R/W monument

Scale: 0 50 100

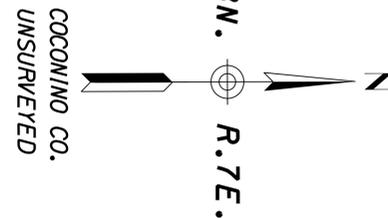
CHANGE ORDER REVISIONS				DRAWING NO.	ARIZONA DEPARTMENT OF TRANSPORTATION	
C.O. NO.	DATE	BY	DESCRIPTION OF REVISIONS	D-03-T-705	INTERMODAL TRANSPORTATION DIVISION	
				SURVEY	RIGHT OF WAY PLANS SECTION	
				DRAWN/DATE	BITTER SPRINGS-UTAH STATE LINE	
				ADOT REVIEW	FEDERAL AID NO.: 089-E(205)T	
				RITOCH-POWELL & Associates 602.263.1177 www.rtochpowell.com	PROJECT NO.: 089 CN 526 H8641	
					ROUTE NO.: US 89	LOCATION: MP 526 - MP 527 SOUTH OF PAGE

Professional Land Surveyor AZ No. 19817
Digitally signed by Jim Crume
Date: 2015.09.28 08:23:40 -07'00'
(Expires 6-30-17)
ELECTRONIC SEAL
http://www.btr.state.az.us/

NAVAJO

RIGHT OF WAY MONUMENTATION SURVEY

THIS SURVEY SUPPLEMENTS THE RESULTS OF SURVEY
AS SHOWN ON SHEETS RS-1 TO RS-6

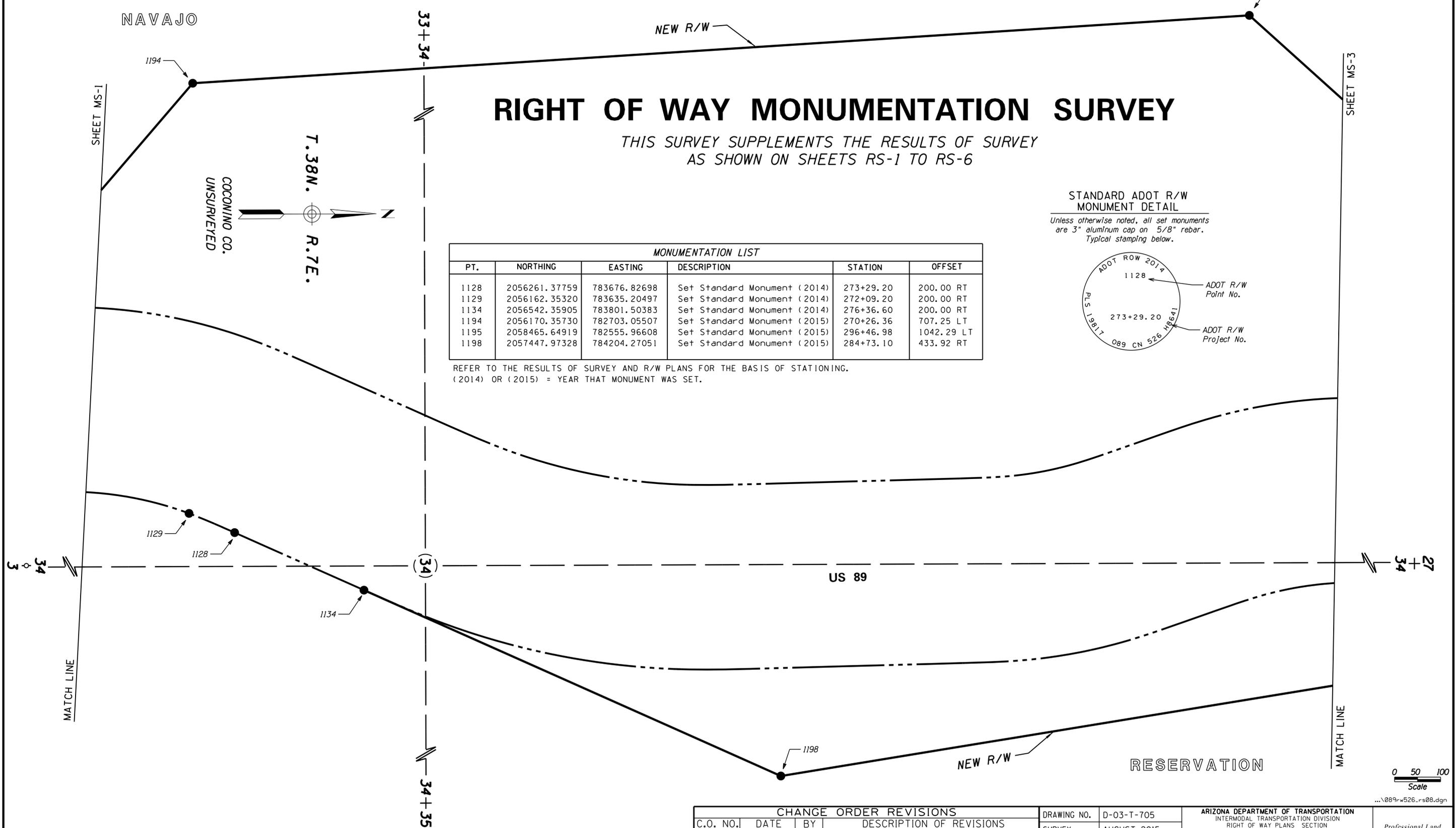
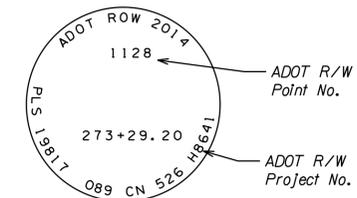


MONUMENTATION LIST					
PT.	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
1128	2056261.37759	783676.82698	Set Standard Monument (2014)	273+29.20	200.00 RT
1129	2056162.35320	783635.20497	Set Standard Monument (2014)	272+09.20	200.00 RT
1134	2056542.35905	783801.50383	Set Standard Monument (2014)	276+36.60	200.00 RT
1194	2056170.35730	782703.05507	Set Standard Monument (2015)	270+26.36	707.25 LT
1195	2058465.64919	782555.96608	Set Standard Monument (2015)	296+46.98	1042.29 LT
1198	2057447.97328	784204.27051	Set Standard Monument (2015)	284+73.10	433.92 RT

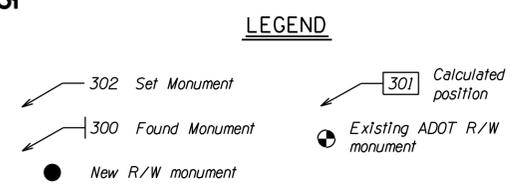
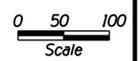
REFER TO THE RESULTS OF SURVEY AND R/W PLANS FOR THE BASIS OF STATIONING.
(2014) OR (2015) = YEAR THAT MONUMENT WAS SET.

STANDARD ADOT R/W MONUMENT DETAIL

Unless otherwise noted, all set monuments are 3" aluminum cap on 5/8" rebar. Typical stamping below.



34 34 27 34
US 89



CHANGE ORDER REVISIONS				DRAWING NO.	D-03-T-705	ARIZONA DEPARTMENT OF TRANSPORTATION	
C.O. NO.	DATE	BY	DESCRIPTION OF REVISIONS			INTERMODAL TRANSPORTATION DIVISION	RIGHT OF WAY PLANS SECTION
				SURVEY	AUGUST 2015	HIGHWAY NAME:	BITTER SPRINGS-UTAH STATE LINE
				DRAWN/DATE	J.CRUME/AUG2015	FEDERAL AID NO.:	089-E(205)T
				ADOT REVIEW	M. HINEMAN	PROJECT NO.:	089 CN 526 H8641
				ROUTE NO.:	US 89	LOCATION:	MP 526 - MP 527 SOUTH OF PAGE

Professional Land Surveyor AZ No. 19817
Digitally signed by Jim Crume
Date: 2015.09.28 08:24:06 -07'00'
(Expires 6-30-17)
ELECTRONIC SEAL
<http://www.btr.state.az.us/>

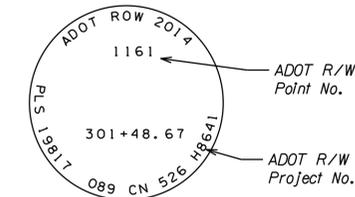
RIGHT OF WAY MONUMENTATION SURVEY

THIS SURVEY SUPPLEMENTS THE RESULTS OF SURVEY
AS SHOWN ON SHEETS RS-1 TO RS-6

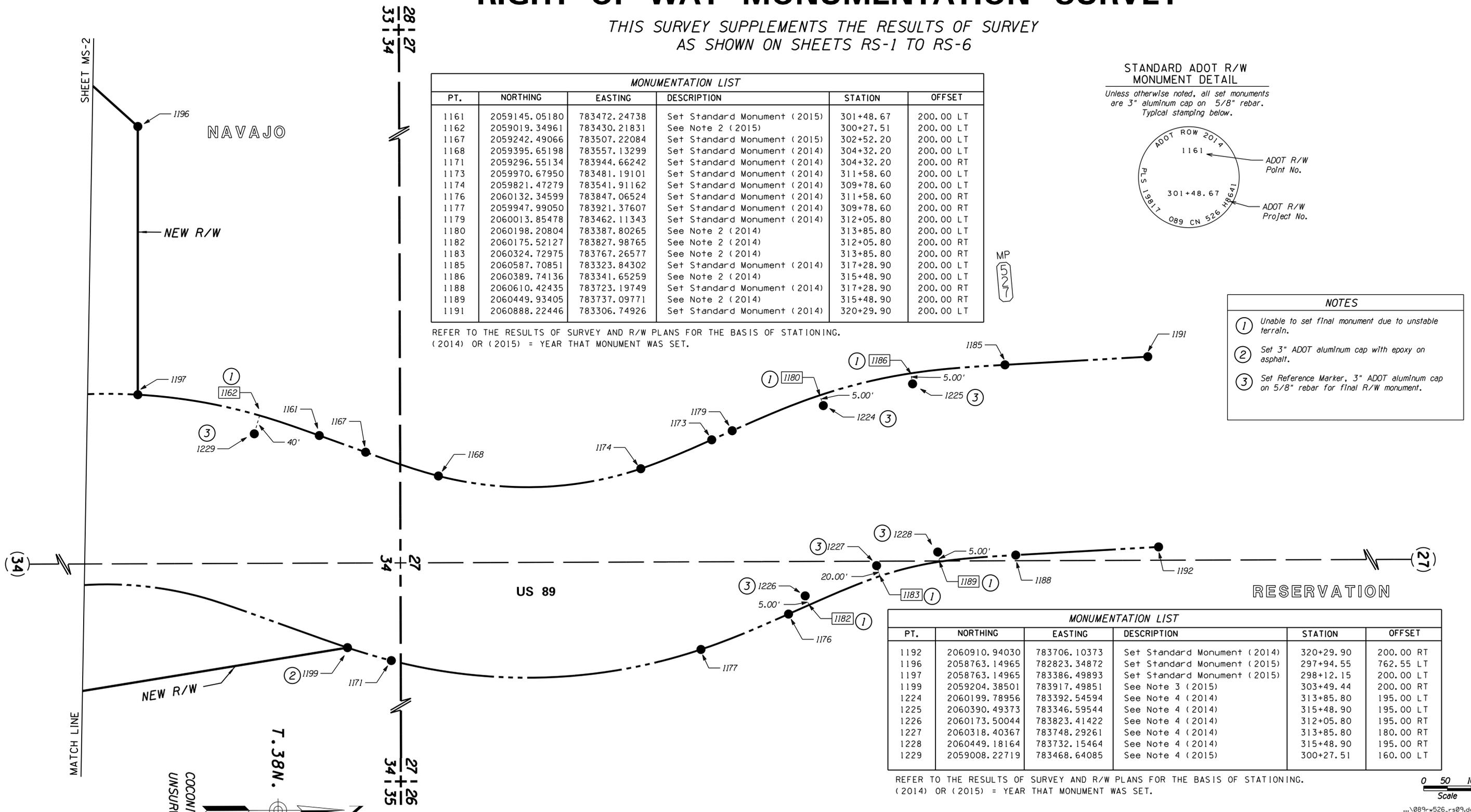
MONUMENTATION LIST					
PT.	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
1161	2059145.05180	783472.24738	Set Standard Monument (2015)	301+48.67	200.00 LT
1162	2059019.34961	783430.21831	See Note 2 (2015)	300+27.51	200.00 LT
1167	2059242.49066	783507.22084	Set Standard Monument (2015)	302+52.20	200.00 LT
1168	2059395.65198	783557.13299	Set Standard Monument (2014)	304+32.20	200.00 LT
1171	2059296.55134	783944.66242	Set Standard Monument (2014)	304+32.20	200.00 RT
1173	2059970.67950	783481.19101	Set Standard Monument (2014)	311+58.60	200.00 LT
1174	2059821.47279	783541.91162	Set Standard Monument (2014)	309+78.60	200.00 LT
1176	2060132.34599	783847.06524	Set Standard Monument (2014)	311+58.60	200.00 RT
1177	2059947.99050	783921.37607	Set Standard Monument (2014)	309+78.60	200.00 RT
1179	2060013.85478	783462.11343	Set Standard Monument (2014)	312+05.80	200.00 LT
1180	2060198.20804	783387.80265	See Note 2 (2014)	313+85.80	200.00 LT
1182	2060175.52127	783827.98765	See Note 2 (2014)	312+05.80	200.00 RT
1183	2060324.72975	783767.26577	See Note 2 (2014)	313+85.80	200.00 RT
1185	2060587.70851	783323.84302	Set Standard Monument (2014)	317+28.90	200.00 LT
1186	2060389.74136	783341.65259	See Note 2 (2014)	315+48.90	200.00 LT
1188	2060610.42435	783723.19749	Set Standard Monument (2014)	317+28.90	200.00 RT
1189	2060449.93405	783737.09771	See Note 2 (2014)	315+48.90	200.00 RT
1191	2060888.22446	783306.74926	Set Standard Monument (2014)	320+29.90	200.00 LT

REFER TO THE RESULTS OF SURVEY AND R/W PLANS FOR THE BASIS OF STATIONING.
(2014) OR (2015) = YEAR THAT MONUMENT WAS SET.

STANDARD ADOT R/W
MONUMENT DETAIL
Unless otherwise noted, all set monuments
are 3" aluminum cap on 5/8" rebar.
Typical stamping below.

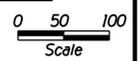


- NOTES**
- ① Unable to set final monument due to unstable terrain.
 - ② Set 3" ADOT aluminum cap with epoxy on asphalt.
 - ③ Set Reference Marker, 3" ADOT aluminum cap on 5/8" rebar for final R/W monument.



MONUMENTATION LIST					
PT.	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
1192	2060910.94030	783706.10373	Set Standard Monument (2014)	320+29.90	200.00 RT
1196	2058763.14965	782823.34872	Set Standard Monument (2015)	297+94.55	762.55 LT
1197	2058763.14965	783386.49893	Set Standard Monument (2015)	298+12.15	200.00 LT
1199	2059204.38501	783917.49851	See Note 3 (2015)	303+49.44	200.00 RT
1224	2060199.78956	783392.54594	See Note 4 (2014)	313+85.80	195.00 LT
1225	2060390.49373	783346.59544	See Note 4 (2014)	315+48.90	195.00 LT
1226	2060173.50044	783823.41422	See Note 4 (2014)	312+05.80	195.00 RT
1227	2060318.40367	783748.29261	See Note 4 (2014)	313+85.80	180.00 RT
1228	2060449.18164	783732.15464	See Note 4 (2014)	315+48.90	195.00 RT
1229	2059008.22719	783468.64085	See Note 4 (2015)	300+27.51	160.00 LT

REFER TO THE RESULTS OF SURVEY AND R/W PLANS FOR THE BASIS OF STATIONING.
(2014) OR (2015) = YEAR THAT MONUMENT WAS SET.



- LEGEND**
- 302 Set Monument
 - 300 Found Monument
 - New R/W monument
 - 301 Calculated position
 - Existing ADOT R/W monument

CHANGE ORDER REVISIONS		DRAWING NO.	D-03-T-705	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION RIGHT OF WAY PLANS SECTION	
C.O. NO.	DATE			BY	DESCRIPTION OF REVISIONS
					BITTER SPRINGS-UTAH STATE LINE
					FEDERAL AID NO.:
					089-E(205)T
					PROJECT NO.:
					089 CN 526 H8641
					Professional Land Surveyor AZ No. 19817 Digitally signed by Jim Crume Date: 2015.09.28 08:24:21 -07'00' (Expires 6-30-17) ELECTRONIC SEAL http://www.btr.state.az.us/
					ROUTE NO.: US 89
					LOCATION: MP 526 - MP 527 SOUTH OF PAGE
					SHEET MS-3