



TOWN OF PRESCOTT VALLEY

OFFICIAL SURVEY BENCHMARK
& REFERENCE POINT
INFORMATION GUIDE

2013 UPDATE

NAD 83 / NAVD 88 DATUMS
(Revised May 2013)

For more information, contact the Town of Prescott Valley Public Works /GIS Division at 928-759-3126.



TOWN BENCHMARK REFERENCE POINT TABLE OF CONTENTS

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**SURVEY BENCHMARK
REFERENCE POINT
LIST**

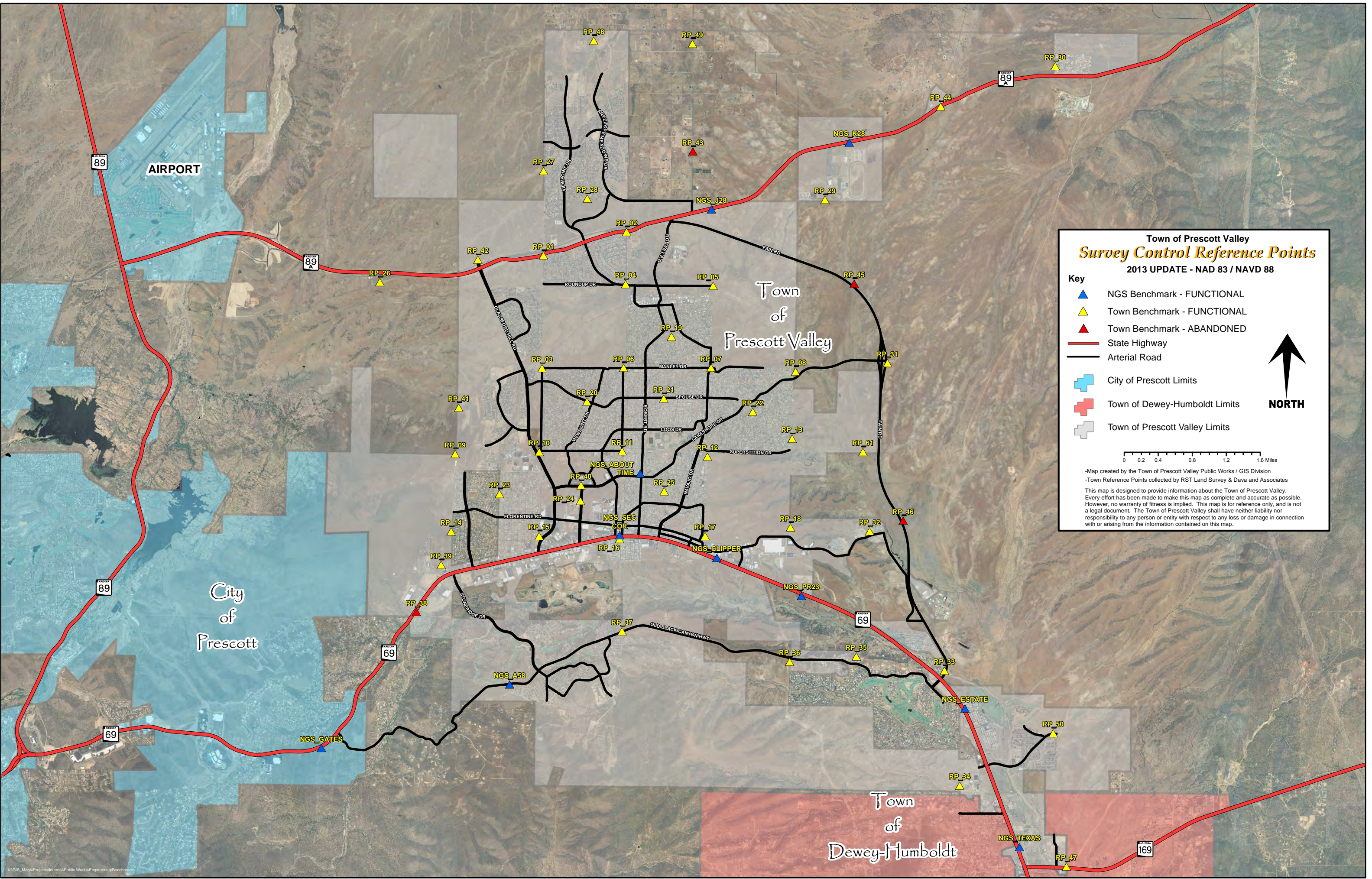
**2013 TOWN OF PRESCOTT VALLEY - BENCHMARK REFERENCE POINT LIST
 NAD83 AZ STATE PLANE GRID AND GROUND VALUES, CENTRAL ZONE, NAV88
 RP 21 IS THE TRANSLATION POINT**

PT#	STATE PLANE COORDINATES			MODIFIED STATE PLANE			STATUS	STAMPED	TYPE	COMMENTS
	GRID NORTHING (ft)	GRID EASTING (ft)	ELEV.	GRND NORTHING (ft)	GRND EASTING (ft)	ELEV.				
RP_01	1322328.069459	572088.999150	5024.170	1322330.94300000	572086.58450000	5024.170	FUNCTIONAL	RP_01	PV	ADJUSTED 2009
RP_02	1323791.637174	577254.965093	4974.890	1323794.98400000	577254.22100000	4974.890	FUNCTIONAL	REF PT 2 RESET	PV	ORIGINALLY ABANDONED
RP_03	1315327.041000	572000.472000	5033.641	1315327.32860000	571998.14690000	5033.641	FUNCTIONAL	RP_03	PV	
RP_04	1320546.692993	577191.703123	4921.770	1320548.99047681	577190.93857178	4921.770	FUNCTIONAL	RP_04	PV	ADJUSTED 2009
RP_05	1320442.693993	582624.127492	4887.370	1320444.95784604	582625.11966486	4887.370	FUNCTIONAL	RP_05	PV	ADJUSTED 2009
RP_06	1315351.321000	577066.505000	5020.826	1315351.60831200	577065.90115076	5020.826	FUNCTIONAL	RP_06	PV	
RP_07	1315352.602967	582495.150036	4981.210	1315353.22080000	582496.10050000	4981.210	FUNCTIONAL	REF PT 7 RESET	PV	ORIGINALLY ABANDONED
RP_08	1315118.033000	587750.838000	4887.647	1315118.10780000	587753.63120000	4887.647	FUNCTIONAL	RP_08	PV	
RP_09	1310002.390000	566600.383000	5172.330	1310001.07260000	566596.21360000	5172.330	FUNCTIONAL	RP_09	PV	
RP_10	1310191.149900	571803.963100	5105.370	1310187.80040000	571802.22110000	5105.370	FUNCTIONAL	RP_10	PV	REVISED LOCATION
RP_11	1310168.772000	576980.438000	5069.670	1310167.42940000	576979.72530000	5069.670	FUNCTIONAL	RP_11	PV	
RP_12	1309839.127009	582275.164115	5018.750	1309837.96190801	582276.04344056	5018.750	FUNCTIONAL	RP_12	PV	ADJUSTED 2009
RP_13	1310946.892000	587537.401000	4964.499	1310945.59100000	587540.11720000	4964.499	FUNCTIONAL	RP_13	PV	
RP_14	1305185.208073	566347.214414	5225.230	1305182.53800000	566342.94300000	5225.230	FUNCTIONAL	REF PT 14 RESET	PV	ORIGINALLY ABANDONED
RP_15	1304903.156283	571820.071615	5166.390	1304900.39500000	571817.57000000	5166.390	FUNCTIONAL	REF PT 15 RESET	PV	ORIGINALLY ABANDONED
RP_16	1304721.508000	576809.266000	5108.009	1304718.30890000	576808.42590000	5108.009	FUNCTIONAL	RP_16	PV	
RP_17	1304901.093750	582128.041750	5040.320	1304898.33180000	582128.87350000	5040.320	FUNCTIONAL	REF PT 17 RESET	PV	ORIGINALLY ABANDONED
RP_18	1305434.682000	587433.527000	4976.130	1305431.66950000	587436.16660000	4976.130	FUNCTIONAL	RP_18	PV	
RP_19	1317279.998591	580040.461027	4981.550	1317281.23970000	580040.61770000	4981.550	FUNCTIONAL	REF PT 19 RESET	PV	ORIGINALLY ABANDONED
RP_20	1313253.145000	574785.229000	5048.043	1313252.73080000	574783.90340000	5048.043	FUNCTIONAL	RP_20	PV	
RP_21	1313442.464000	579555.795000	5018.589	1313442.04100000	579555.97110000	5018.589	FUNCTIONAL	RP_21	PV	TRANSLATION POINT
RP_22	1312614.534000	585084.696000	4966.441	1312613.74820000	585086.61100000	4966.441	FUNCTIONAL	RP_22	PV	
RP_23	1307515.898000	569357.313000	5163.407	1307513.71650000	569354.12020000	5163.407	FUNCTIONAL	RP_23	PV	
RP_24	1307091.391000	574387.413000	5121.684	1307088.94320000	574385.79270000	5121.684	FUNCTIONAL	RP_24	PV	
RP_25	1307682.652456	579583.450914	5062.400	1307680.79000000	579583.45980000	5062.400	FUNCTIONAL	REF PT 25 RESET	PV	ORIGINALLY ABANDONED
RP_26	1320675.446000	561923.061000	5129.206	1320677.67710000	561917.47610000	5129.206	FUNCTIONAL	RP_26	PV	
RP_27	1327581.879000	572095.016000	4953.164	1327586.31840000	572092.70950000	4953.164	FUNCTIONAL	RP_27	PV	
RP_28	1325857.026000	574803.988000	4988.550	1325860.92170000	574802.52350000	4988.550	FUNCTIONAL	RP_28	PV	
RP_29	1325790.010000	589578.464000	5022.500	1325793.86800000	589581.85120000	5022.500	FUNCTIONAL	RP_29	PV	
RP_30	1334090.108000	603879.801000	5319.350	1334096.71910000	603887.82690000	5319.350	FUNCTIONAL	RP_30	PV	
RP_31	1315651.869000	593460.402000	4942.123	1315652.41460000	593465.05850000	4942.123	FUNCTIONAL	RP_31	PV	
RP_32	1305195.318804	592350.579013	4798.930	1305192.65200000	592354.71650000	4798.930	FUNCTIONAL	REF PT 32 RESET	PV	ORIGINALLY ABANDONED
RP_33	1296537.046000	596997.303000	4668.561	1296531.51430000	597003.05330000	4668.561	FUNCTIONAL	RP_33	PV	
RP_34	1289405.598000	597946.261000	4709.447	1289397.69820000	597952.40820000	4709.447	FUNCTIONAL	RP_34	PV	
RP_35	1297417.594000	591522.729000	4925.408	1297412.25600000	591526.79090000	4925.408	FUNCTIONAL	RP_35	PV	
RP_36	1297094.606000	587377.377000	4973.598	1297089.24160000	587380.04140000	4973.598	FUNCTIONAL	RP_36	PV	
RP_37	1298990.415000	576970.096000	5121.440	1298985.56160000	576969.37690000	5121.440	FUNCTIONAL	RP_37	PV	
RP_38	1300182.221000	564201.006000	5284.472	1300177.92910000	564195.82760000	5284.472	ABANDONED	RP_38	PV	ORIGINALLY FUNCTIONAL
RP_39	1303107.540444	565731.074160	5284.010	1303104.19850000	565726.60350000	5284.010	FUNCTIONAL	REF PT 39 RESET	PV	ORIGINALLY ABANDONED
RP_40	1308049.756012	574417.418127	5111.700	1308048.01226854	574415.75643487	5111.700	FUNCTIONAL	RP_40	PV	ADJUSTED 2009

**2013 TOWN OF PRESCOTT VALLEY - BENCHMARK REFERENCE POINT LIST
 NAD83 AZ STATE PLANE GRID AND GROUND VALUES, CENTRAL ZONE, NAV88
 RP 21 IS THE TRANSLATION POINT**

PT#	STATE PLANE COORDINATES			MODIFIED STATE PLANE			STATUS	STAMPED	TYPE	COMMENTS
	GRID NORTHING (ft)	GRID EASTING (ft)	ELEV.	GRND NORTHING (ft)	GRND EASTING (ft)	ELEV.				
RP_41	1312878.787000	566826.451000	5063.144	1312878.60485600	566822.33456100	5063.144	FUNCTIONAL	RP_41	PV	
RP_42	1322069.112000	568016.501000	5034.130	1322071.90180000	568012.76939600	5034.130	FUNCTIONAL	RP_42	PV	
RP_43	1328788.240000	581365.295000	4906.938	1328793.20261400	581365.88009400	4906.938	ABANDONED	RP_43	PV	DESTROYED
RP_44	1331580.269000	596763.170000	5120.859	1331586.13449300	596768.73442000	5120.859	FUNCTIONAL	RP_44	PV	
RP_45	1320576.056000	591387.912000	4923.383	1320578.36297900	591391.73818300	4923.383	ABANDONED	RP_45	PV	DESTROYED
RP_46	1305855.290000	594430.404000	4775.482	1305852.83661600	594435.21405600	4775.482	ABANDONED	RP_46	PV	DESTROYED
RP_47	1284370.392000	604575.037000	4562.530	1284360.99088500	604583.12760100	4562.530	FUNCTIONAL	RP_47	PV	
RP_48	1335670.250000	575207.470000	4890.432	1335677.43810100	575206.06379300	4890.432	FUNCTIONAL	RP_48	PV	
RP_49	1335482.650000	581338.557000	4923.290	1335489.77743500	581339.13344800	4923.290	FUNCTIONAL	RP_49	PV	
RP_50	1292657.232000	603745.504000	4671.021	1292650.51066200	603753.32634900	4671.021	FUNCTIONAL	RP_50	PV	
RP_51	1301184.888000	588114.449000	4863.994	1301180.66480000	588117.32840000	4863.994	FUNCTIONAL	PR23	NGS	
RP_52	1295681.481000	569984.334000	5265.955	1295675.73763600	569981.23874900	5265.955	FUNCTIONAL	A58	NGS	
RP_53	1308786.237000	578094.150000	5087.190	1308784.73141800	578093.67728000	5087.190	FUNCTIONAL	ABOUT TIME	NGS	
RP_54	1325189.321000	582523.984000	4935.300	1325193.11980500	582524.94378800	4935.300	FUNCTIONAL	J28	NGS	
RP_55	1329336.514000	591080.338000	5060.500	1329341.65391400	591084.06472000	5060.500	FUNCTIONAL	K28	NGS	
RP_56	1303551.975000	582857.219000	5033.331	1303548.33706688	582858.35759824	5033.331	FUNCTIONAL	CLIPPER	NGS	
RP_57	1294191.006000	598269.645000	4662.642	1294184.30599255	598275.82524326	4662.642	FUNCTIONAL	ESTATE	NGS	
RP_58	1291734.435000	558291.198000	5508.479	1291727.41525000	558284.32145200	5508.479	FUNCTIONAL	GATES	NGS	
RP_59	1304950.499000	576822.969000	5108.047	1304947.75302700	576822.08520900	5108.047	FUNCTIONAL	SEC COR	NGS	
RP_60	1285581.643000	601652.015000	4587.223	1285572.21900000	601659.20610000	4587.223	FUNCTIONAL	TEXAS	NGS	
RP_61	1310127.550100	591935.815300	4804.270	1310126.47830000	591939.81870000	4804.270	FUNCTIONAL	RP_61	PV	NEW RP

**SURVEY BENCHMARK
REFERENCE POINT
INDEX MAP**



Town of Prescott Valley
Survey Control Reference Points
 2013 UPDATE - NAD 83 / NAVD 88

Key

- ▲ NGS Benchmark - FUNCTIONAL
- ▲ Town Benchmark - FUNCTIONAL
- ▲ Town Benchmark - ABANDONED
- State Highway
- Arterial Road
- City of Prescott Limits
- Town of Dewey-Humboldt Limits
- Town of Prescott Valley Limits

NORTH

0 0.2 0.4 0.8 1.2 1.6 Miles

-Map created by the Town of Prescott Valley Public Works / GIS Division
 -Town Reference Points collected by RST Land Survey & Dava and Associates

This map is designed to provide information about the Town of Prescott Valley. Every effort has been made to make this map as complete and accurate as possible. However, no warranty of fitness is implied. This map is for reference only, and is not a legal document. The Town of Prescott Valley shall have neither liability nor responsibility to any person or entity with respect to any loss or damage in connection with or arising from the information contained on this map.

**SURVEY BENCHMARK
REFERENCE POINT
INDEX SHEETS**

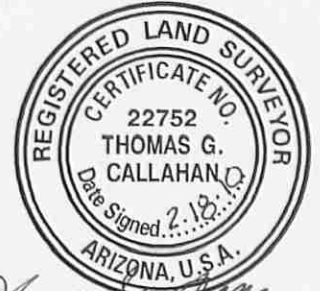
NAME	GRND. NORTH.	GRND. EAST.	ELEV. NAVD88
RP01	1322330.9430	572086.5845	5024.17

NAME	GRID NORTH.	GRID EAST.	ELEV. NAVD88
RP01	1322328.0695	572088.9992	5024.17

ADJUSTED VALUES FEBRUARY 2010

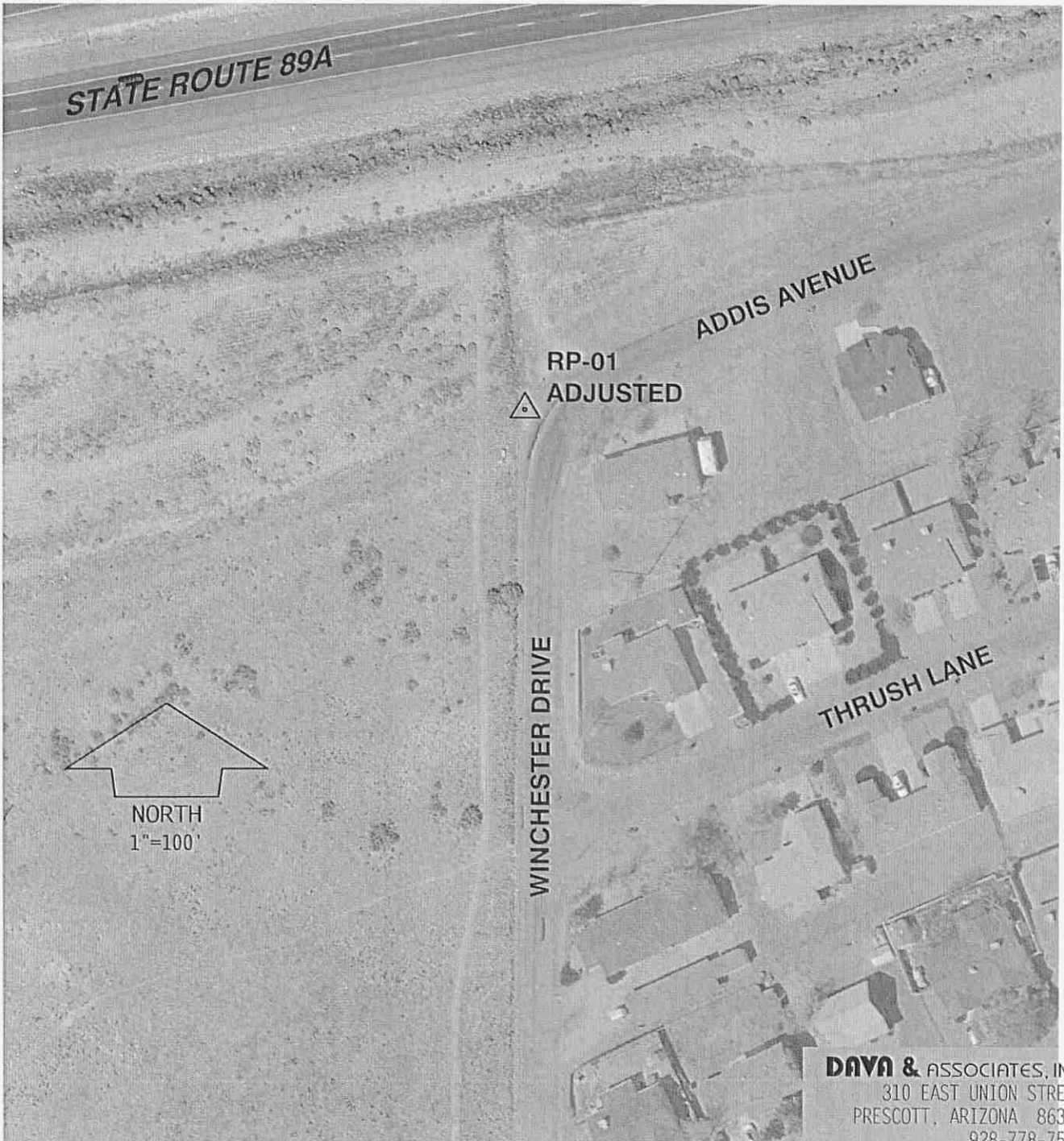
NAME	LATITUDE	LONGITUDE	HEIGHT
RP01	34°38'02.01442"N	112°20'30.84656"W	4938.96

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83. THE INTERNATIONAL FOOT WAS USED. FOUND 3 1/4" ALUMINUM CAP STAMPED "T.O.P.V. REF. PT. 1"



Thomas G. Callahan

EXPIRES 6/30/2011



DAY & ASSOCIATES, INC.
 310 EAST UNION STREET
 PRESCOTT, ARIZONA 86303
 928-778-7587



10/28/2010

NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
RP02-RS 1323794.9840 577254.2210 4974.89

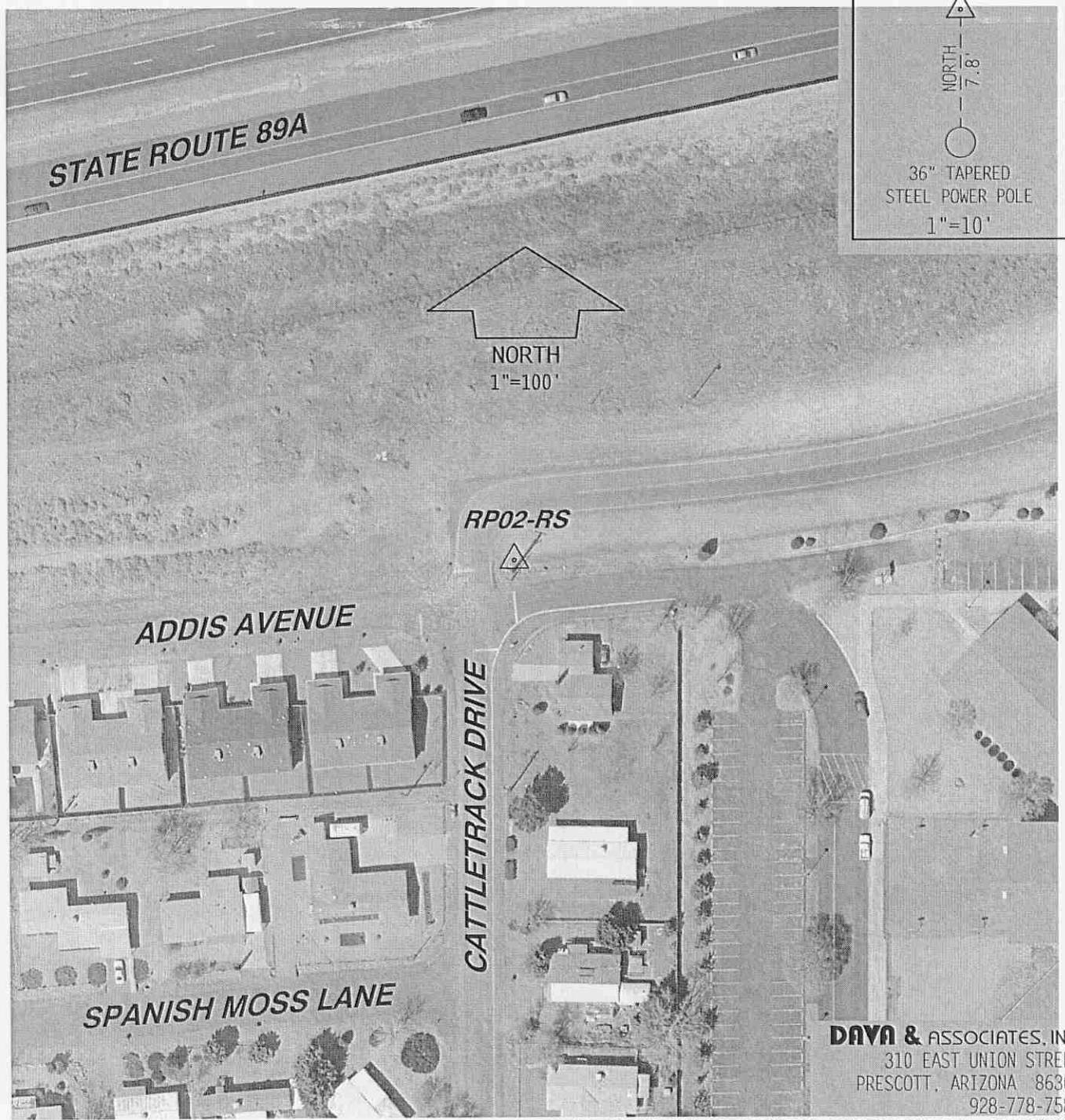
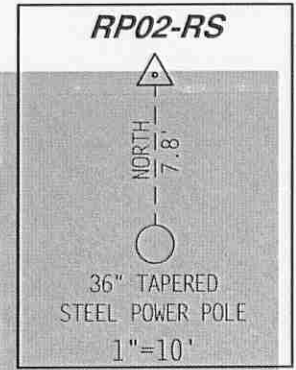
NAME GRID NORTH. GRID EAST. ELEV. NAVD88
RP02-RS 1323791.6372 577254.9651 4974.89

NAME LATITUDE LONGITUDE
RP02-RS 34°38'16.70328"N 112°19'29.09229"W

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83.
THE INTERNATIONAL FOOT WAS USED. SET 3 1/4" ALUMINUM CAP STAMPED "T.O.P.V.
REF. PT. 2 RESET"



Thomas G. Callahan
EXPIRES 6/30/2011



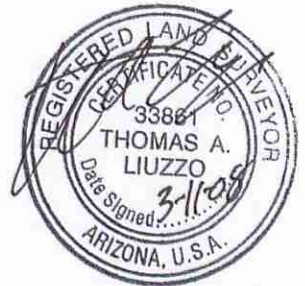
DAYA & ASSOCIATES, INC.
310 EAST UNION STREET
PRESCOTT, ARIZONA 86303
928-778-7587

REF PT

2

REBET

07/08/2010

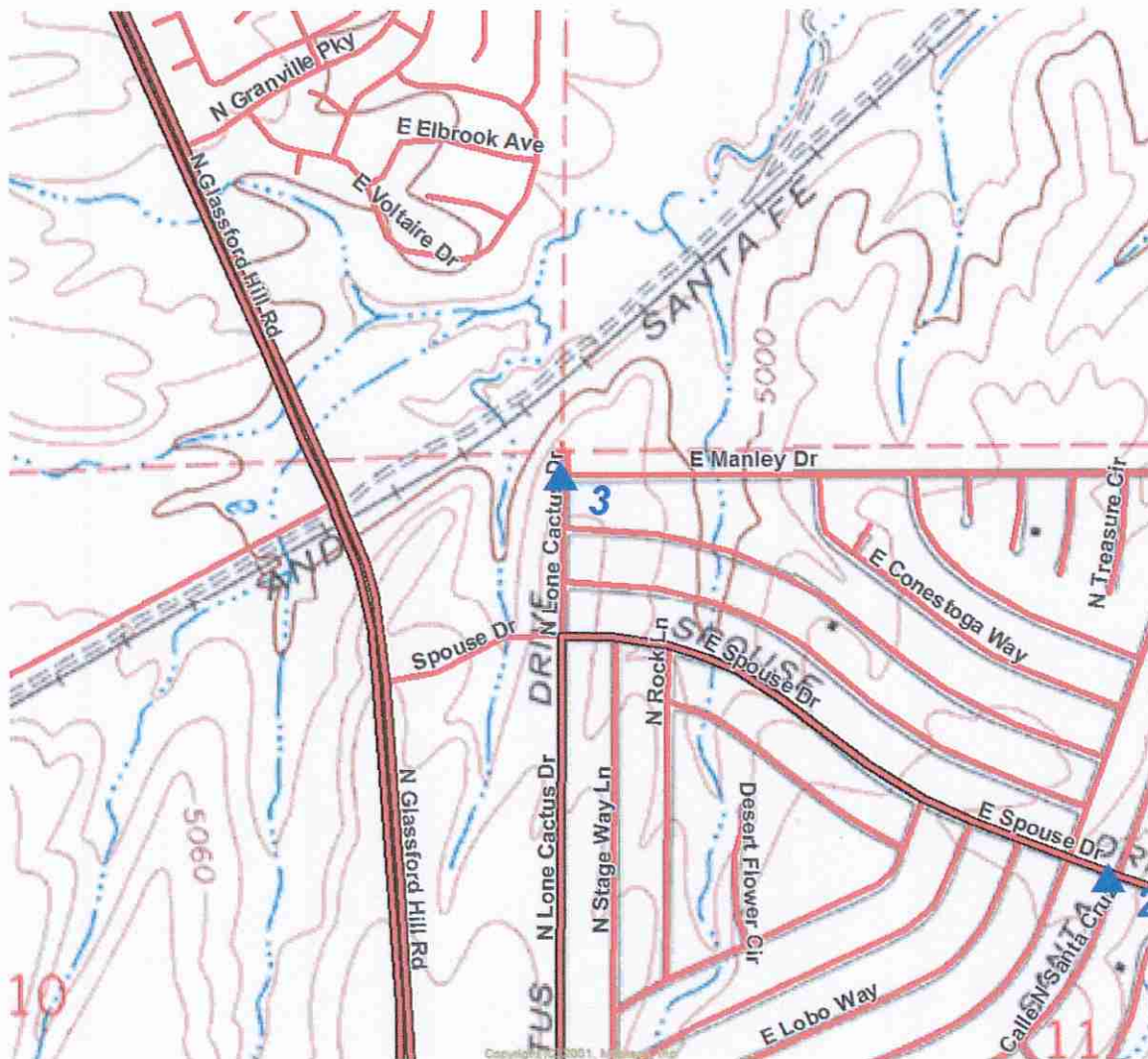


RST LANDSURVEYING INC.

NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT	
RP 3	WGS84	34°36'52.75635"N	112°20'31.55254"W	4947.948	EXP: <u>6-30-08</u>
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88	
RP 3	NAD83 AZ CENTRAL	1315327.041	572000.472	5033.641	

BRASS CAP IN CONCRETE FLUSH WITH GROUND AT THE NORTHWEST CORNER OF E MANLEY DR. AND N LONE CACTUS DR. STAMPED RP 3

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



PRESCOTT
OF REEF PT
NO 3
VALLEY

NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
 RP04 1320548.9905 577190.9386 4921.77

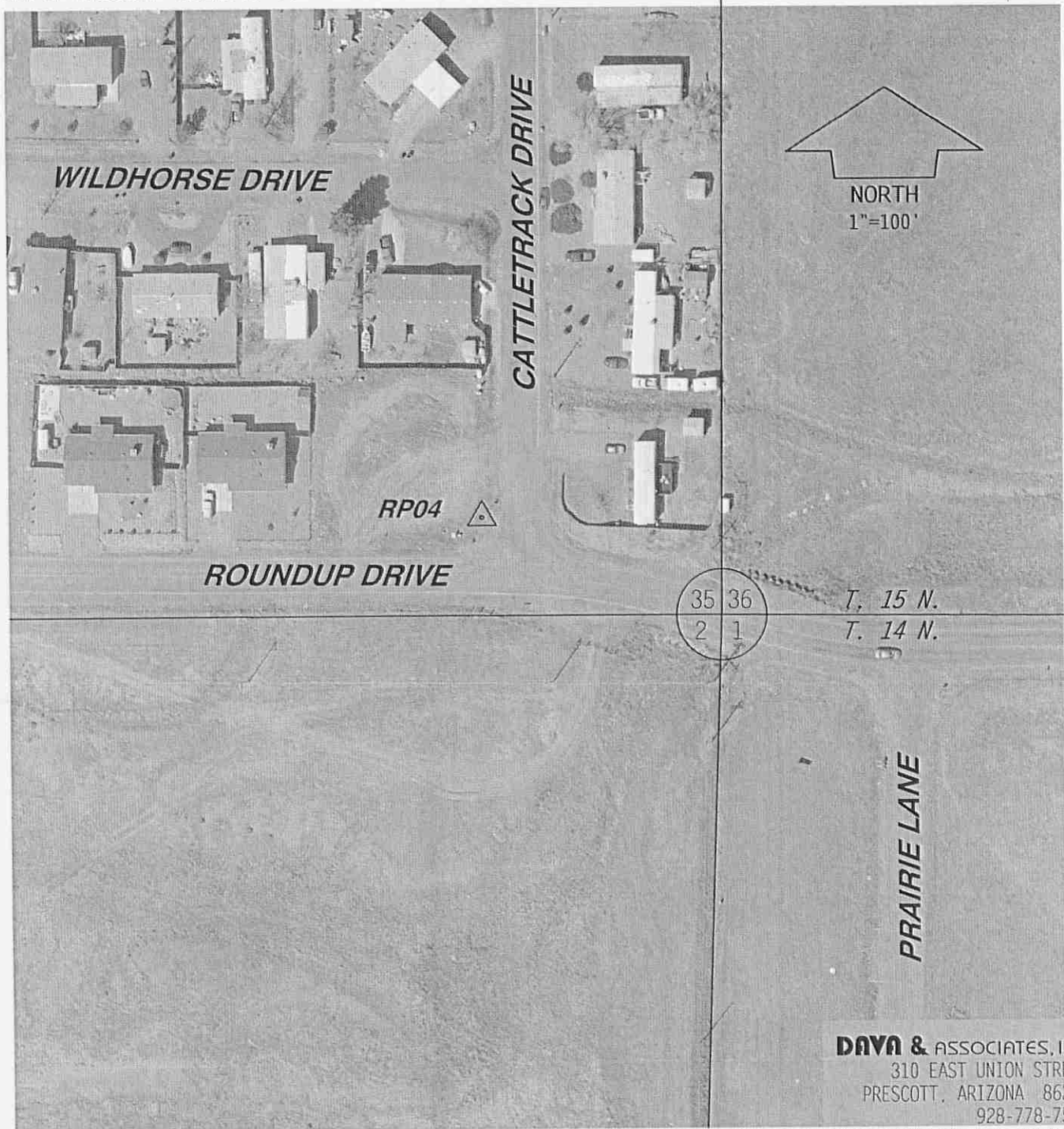
NAME GRID NORTH. GRID EAST. ELEV. NAVD88
 RP04 1320546.6930 577191.7032 4921.77

NAME LATITUDE LONGITUDE HEIGHT
 RP04 34°37'44.60164"N 112°19'29.69216"W 4836.67

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
 SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
 ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83.
 THE INTERNATIONAL FOOT WAS USED. FOUND BRASS CAP IN CONCRETE STAMPED
 "TOWN OF PRESCOTT VALLEY RP 04"



Thomas G. Callahan
 EXPIRES 6/30/2011



DAVA & ASSOCIATES, INC.
 310 EAST UNION STREET
 PRESCOTT, ARIZONA 86303
 928-778-7587

07/08/2010



NAME	GRND. NORTH.	GRND. EAST.	ELEV. NAVD88
RP05	1320444.9578	582625.1197	4887.37

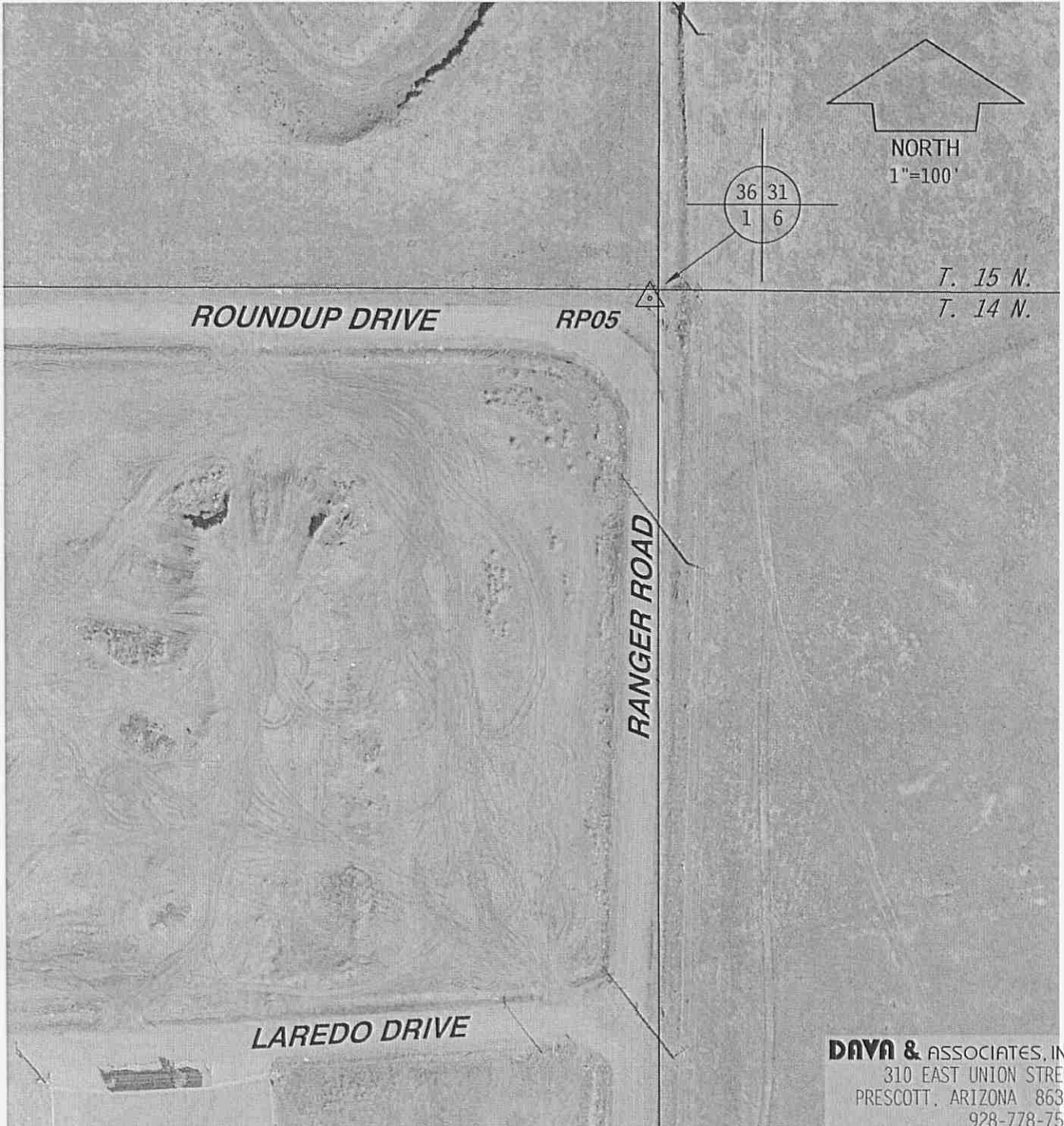
NAME	GRID NORTH.	GRID EAST.	ELEV. NAVD88
RP05	1320442.6940	582624.1275	4887.37

NAME	LATITUDE	LONGITUDE	HEIGHT
RP05	34°37'43.78565"N	112°18'24.67689"W	4802.41

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83. THE INTERNATIONAL FOOT WAS USED. FOUND BRASS CAP IN CONCRETE STAMPED "TOWN OF PRESCOTT VALLEY RP05"



Thomas G. Callahan
EXPIRES 6/30/2011



DAYA & ASSOCIATES, INC.
310 EAST UNION STREET
PRESCOTT, ARIZONA 86303
928-778-7587



07/08/2010

RST LANDSURVEYING INC.

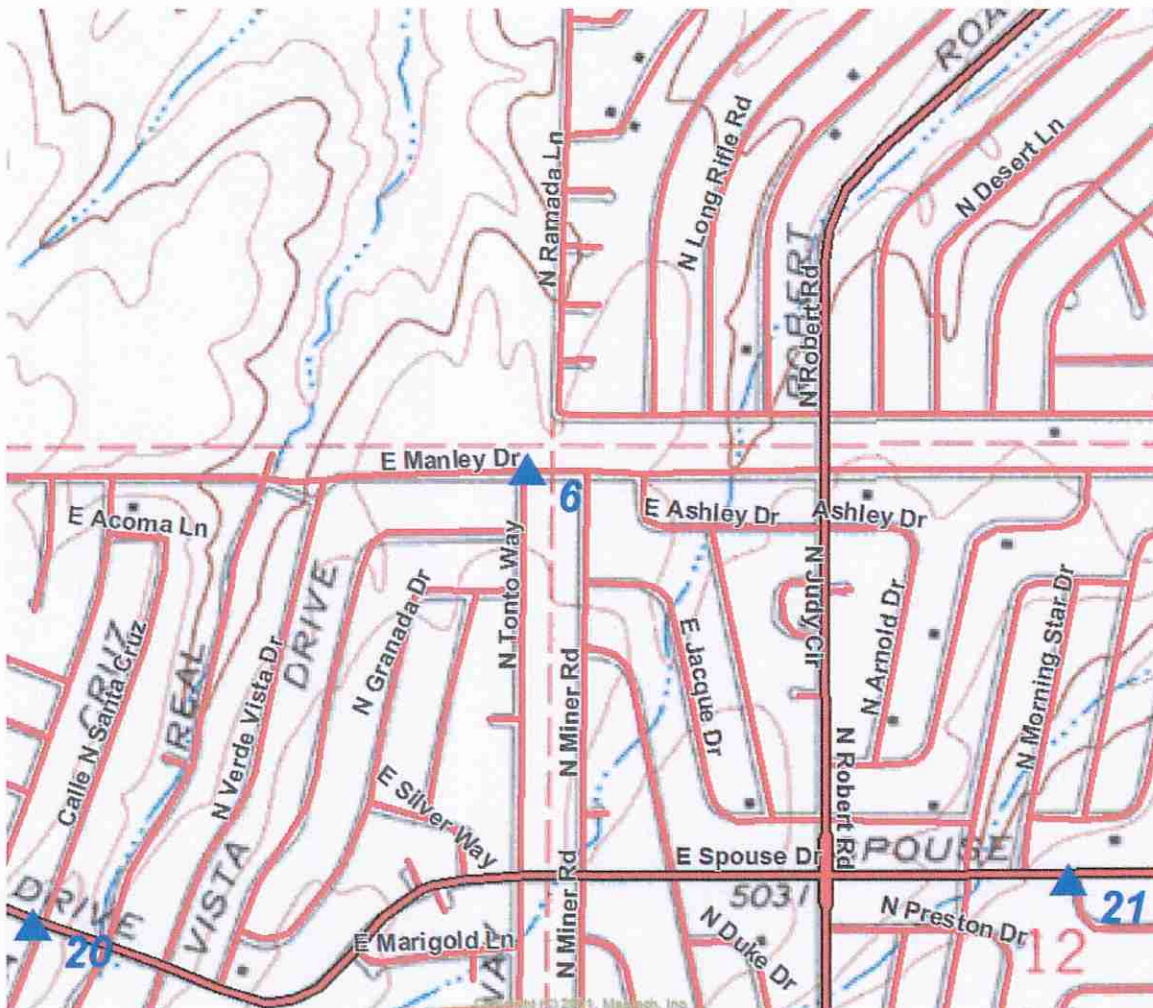


NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 6	WGS84	34°36'53.20373"N	112°19'30.93850"W	4935.259
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 6	NAD83 AZ CENTRAL	1315351.321	577066.505	5020.826

EXP: 6-30-09

BRASS CAP IN CONCRETE FLUSH WITH GROUND AT THE NORTHEAST CORNER OF THE INTERSECTION OF E MANLEY DR. AND N TONTO WAY. STAMPED RP 6

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008





07/08/2010

NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
RP07-RS 1315353.2208 582496.1005 4981.21

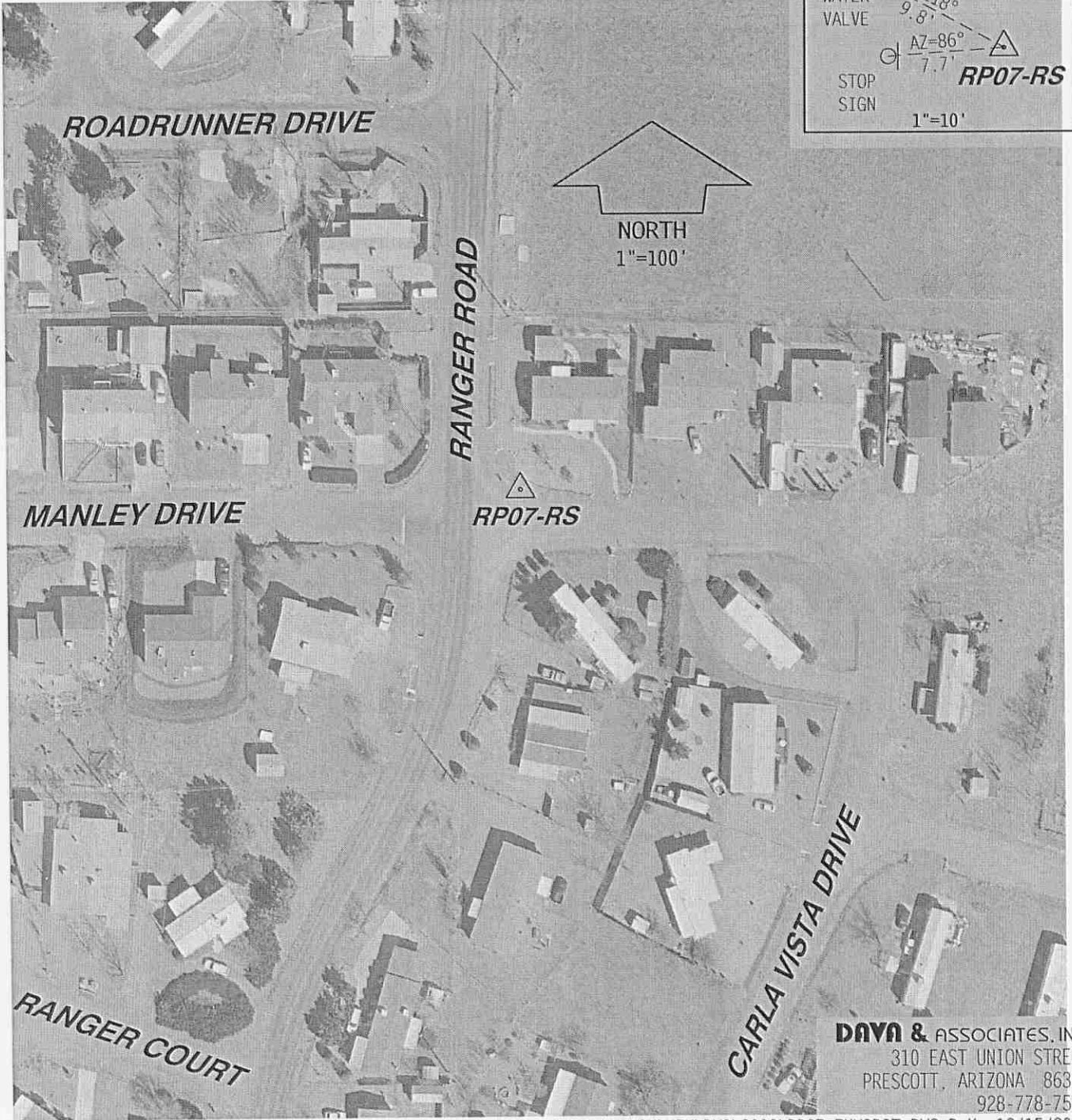
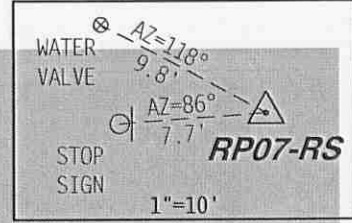
NAME GRID NORTH. GRID EAST. ELEV. NAVD88
RP07-RS 1315352.6030 582495.1500 4981.21

NAME LATITUDE LONGITUDE
RP07-RS 34°36'53.42915"N 112°18'25.98446"W

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83.
THE INTERNATIONAL FOOT WAS USED. SET 3 1/4" ALUMINUM CAP STAMPED "T.O.P.V."
REF. PT. 7 RESET"



Thomas G. Callahan
EXPIRES 6/30/2011



DAYA & ASSOCIATES, INC.
310 EAST UNION STREET
PRESCOTT, ARIZONA 86303
928-778-7587

T O P V

REF PT

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7

RESET

07/08/2010

RST LANDSURVEYING INC.

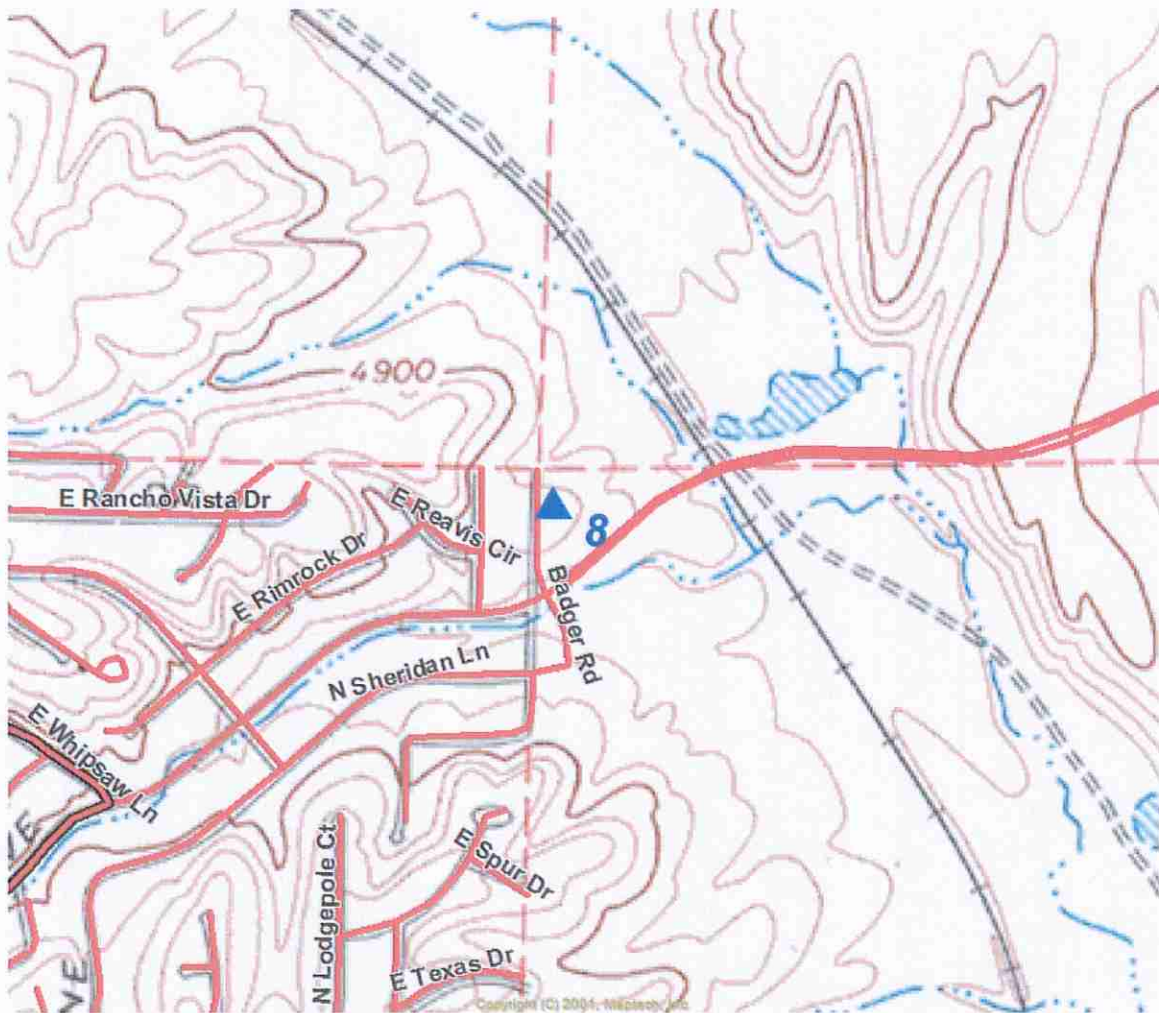


EXP: 6-30-08

NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 8	WGS84	34°36'51.30557"N	112°17'23.08924"W	4802.347
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 8	NAD83 AZ CENTRAL	1315118.033	587750.838	4887.647

BRASS CAP IN CONCRETE FLUSH WITH GROUND TAKE LAKESHORE DR. TO BADGER RD. TOP OF HILL EAST OF FENCE. STAMPED RP 8

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008





PRESOTT
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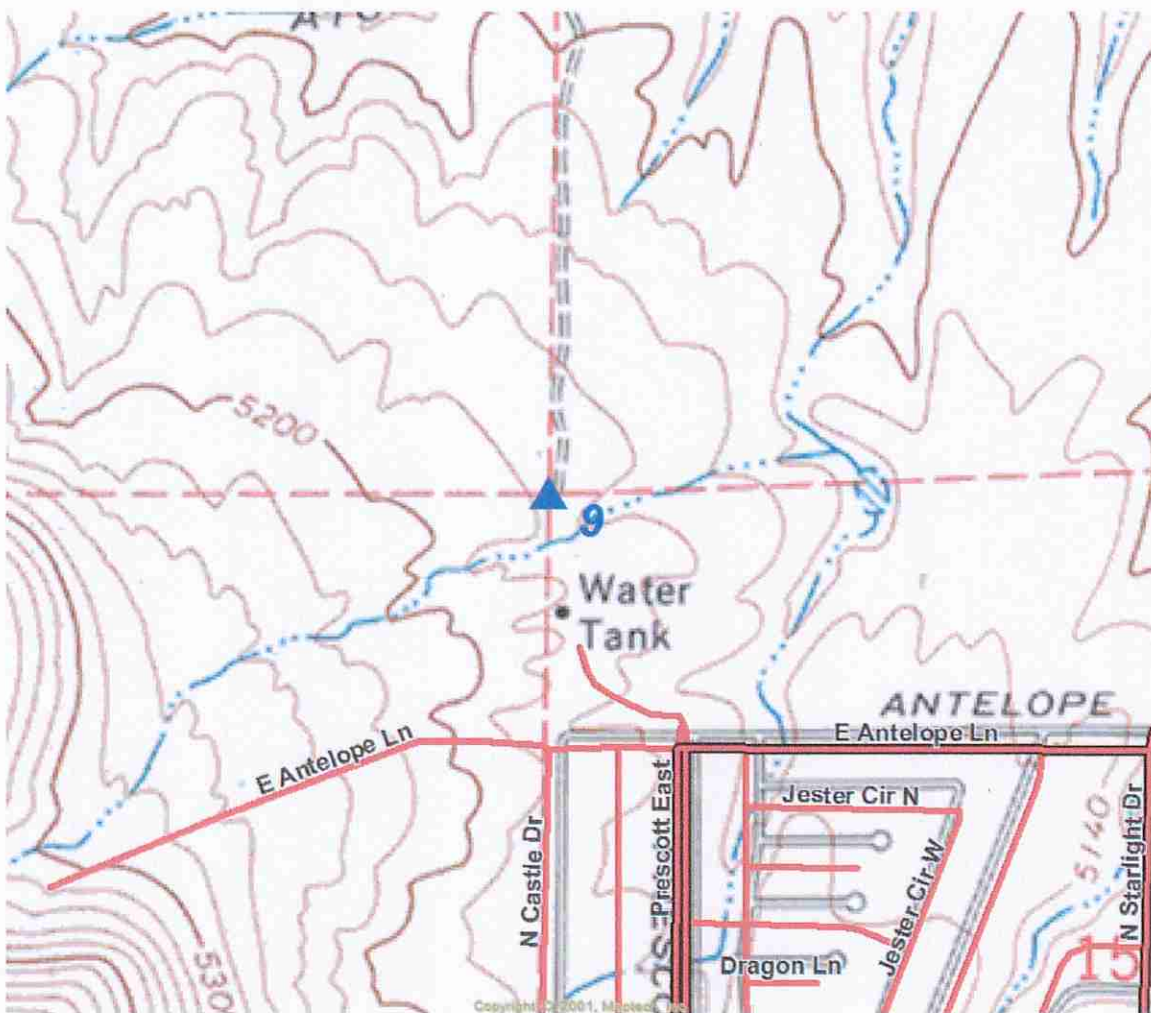
RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 9	WGS84	34°35'59.85467"N	112°21'35.88458"W	5086.459
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 9	NAD83 AZ CENTRAL	1310002.390	566600.383	5172.330

BRASS CAP IN CONCRETE FLUSH WITH GROUND AT FENCE CORNER NORTHEAST SIDE. STAMPED RP 9

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008





PRESSCOTT FALLS

CROSS

TOM

NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
RP10RS 1310187.8004 571802.2211 5105.37

NAME GRID NORTH. GRID EAST. ELEV. NAVD88
RP10RS 1310191.1499 571803.9631 5105.37

NAME LATITUDE LONGITUDE ELEV. NAVD88
RP10RS 34°36'01.94363"N 112°20'33.64426"W 5105.37

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83 (1986).
THE INTERNATIONAL FOOT WAS USED. SET 3 1/4" ALUMINUM CAP STAMPED
"T.O.P.V. REF. PT. 10 RESET"



Thomas G. Callahan

EXPIRES 6/30/2014



DAVA & ASSOCIATES, INC.
310 EAST UNION STREET
PRESCOTT, ARIZONA 86303
928-778-7587
374PVENG\SURVEY\DWG\2008\RP10RS-EXHIBIT.DWG B.K. 03/11/2013
REVISED 23 OCTOBER 2013

RST LANDSURVEYING INC.

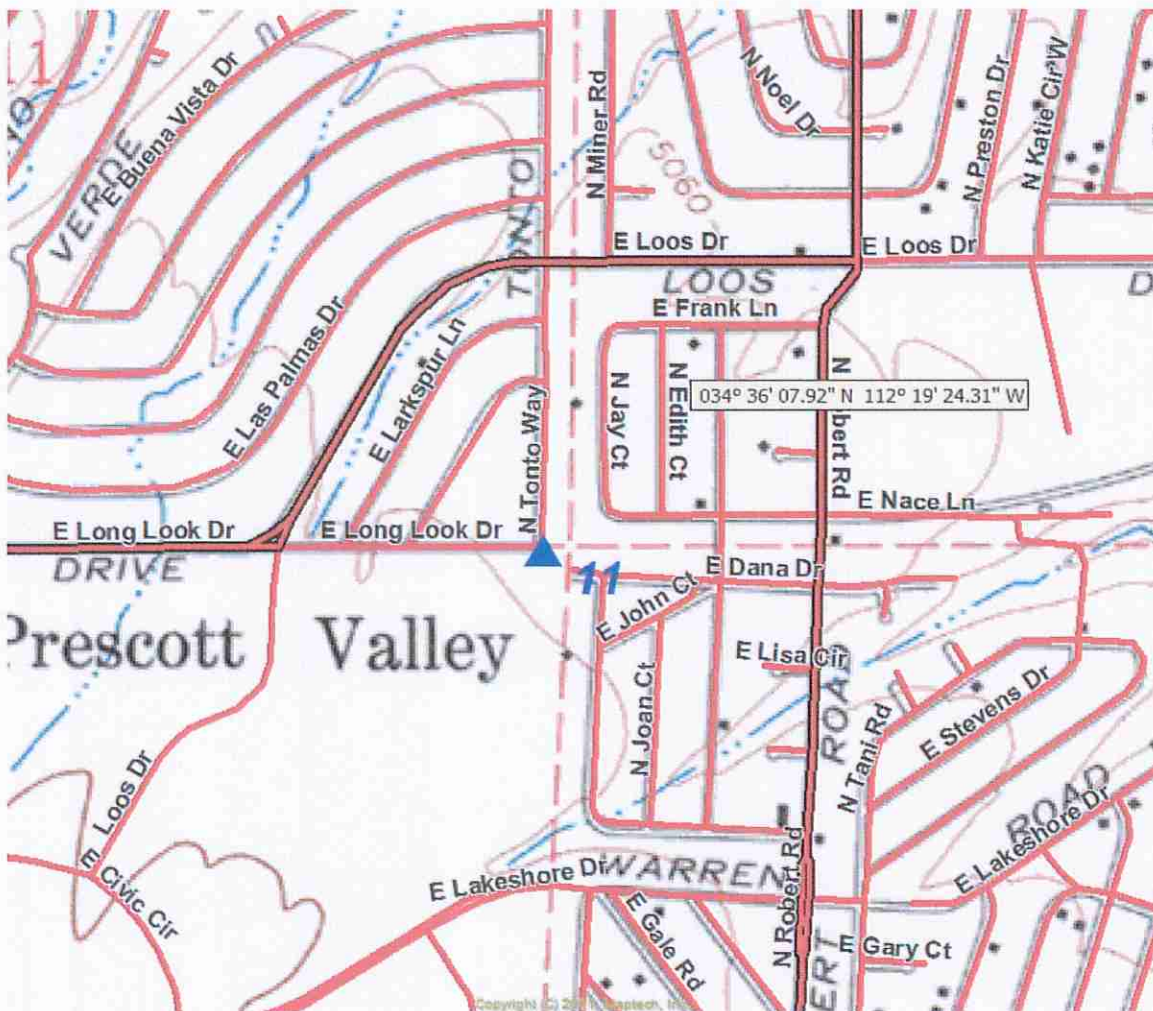


NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 11	WGS84	34°36'01.93411"N	112°19'31.71702"W	4984.032
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 11	NAD83 AZ CENTRAL	1310168.772	576980.438	5069.670

BRASS CAP IN CONCRETE FLUSH WITH GROUND AT THE SOUTHEAST CORNER OF LONG LOOK DR. AND N TONTO WAY. STAMPED RP 11

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS

DATE VISITED – JANUARY 2008





RESCOTT VALLEY

REF PT

N 11 W 12 Q 11

NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
 RP12 1309837.9619 582276.0434 5018.75

NAME GRID NORTH. GRID EAST. ELEV. NAVD88
 RP12 1309839.1270 582275.1641 5018.75

NAME LATITUDE LONGITUDE HEIGHT
 RP12 34°35'58.88087"N 112°18'28.36079"W 4933.58

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
 SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
 ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83.
 THE INTERNATIONAL FOOT WAS USED. FOUND BRASS CAP IN CONCRETE STAMPED
 "TOWN OF PRESCOTT VALLEY RP12"



EXPIRES 6/30/2011



DAYA & ASSOCIATES, INC.
 310 EAST UNION STREET
 PRESCOTT, ARIZONA 86303
 928-778-7587



07/08/2010

RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 13	WGS84	34°36'10.03634"N	112°17'25.45811"W	4879.111

EXP: 6-30-06

	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 13	NAD83 AZ CENTRAL	1310946.892	587537.401	4964.499

BRASS CAP IN CONCRETE FLUSH WITH GROUND TAKE SUPERSTITION TO EAST SAGEBRUSH DR.
MONUMENT ON SOUTHEAST. STAMPED RP 13

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF PLYMOUTH
REF PT VALLEY
1915

RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 13	WGS84	34°36'10.03634"N	112°17'25.45811"W	4879.111

EXP: 6-30-06

	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 13	NAD83 AZ CENTRAL	1310946.892	587537.401	4964.499

BRASS CAP IN CONCRETE FLUSH WITH GROUND TAKE SUPERSTITION TO EAST SAGEBRUSH DR.
MONUMENT ON SOUTHEAST. STAMPED RP 13

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF PLYMOUTH
REF PT VALLEY
1915

NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
RP14-RS 1305182.5380 566342.9430 5225.23

NAME GRID NORTH. GRID EAST. ELEV. NAVD88
RP14-RS 1305185.2081 566347.2144 5225.23

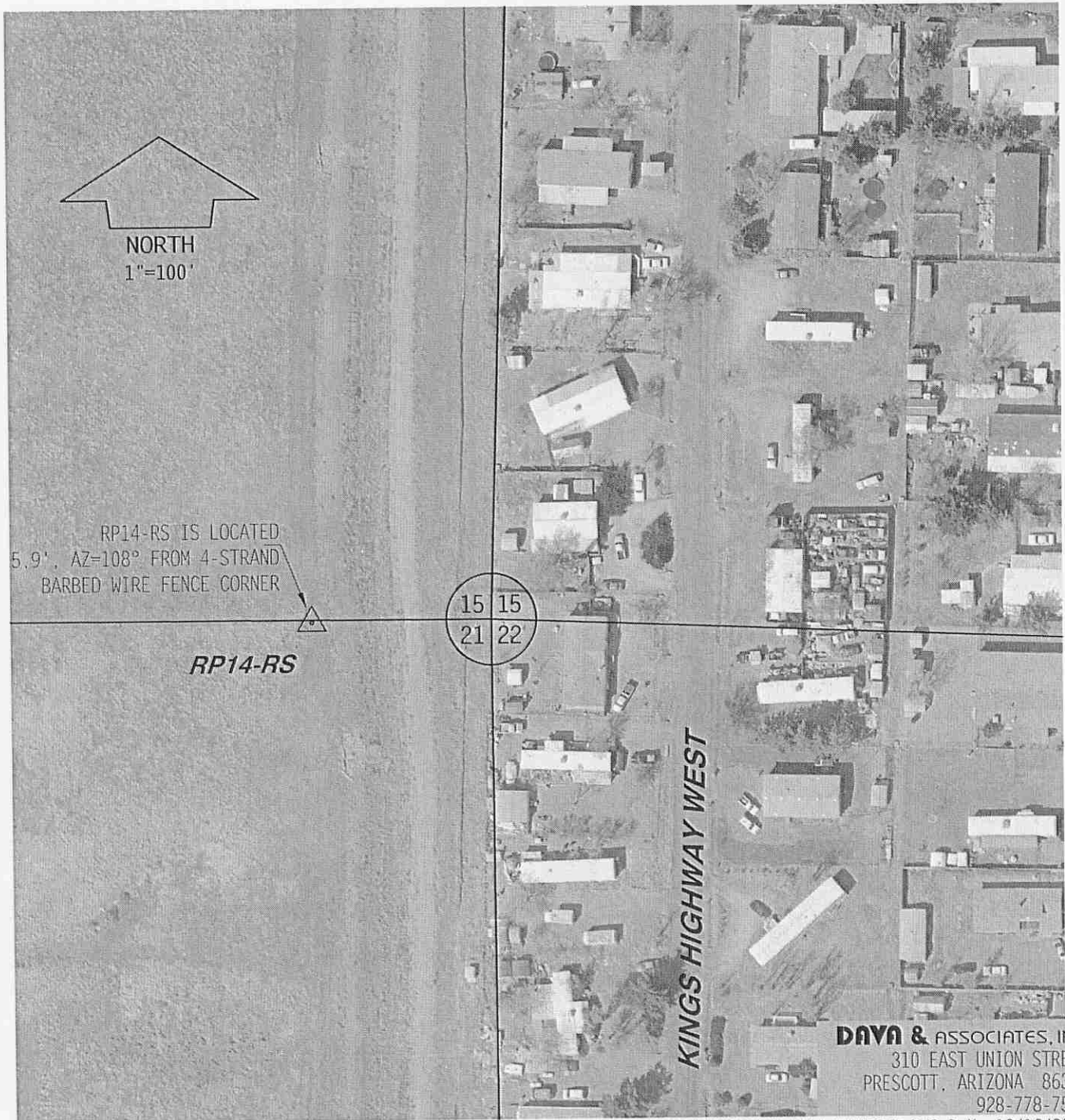
NAME LATITUDE LONGITUDE
RP14-RS 34°35'12.19183"N 112°21'38.65962"W

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83.
THE INTERNATIONAL FOOT WAS USED. SET 3 1/4" ALUMINUM CAP STAMPED "T.O.P.V.
REF. PT. 14 RESET"



Thomas G. Callahan

EXPIRES 6/30/2011



DAYA & ASSOCIATES, INC.
310 EAST UNION STREET
PRESCOTT, ARIZONA 86303
928-778-7587

T O P W

REF PT

SECRET

07/15/2010

NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
RP15-RS 1304900.3950 571817.5700 5166.39

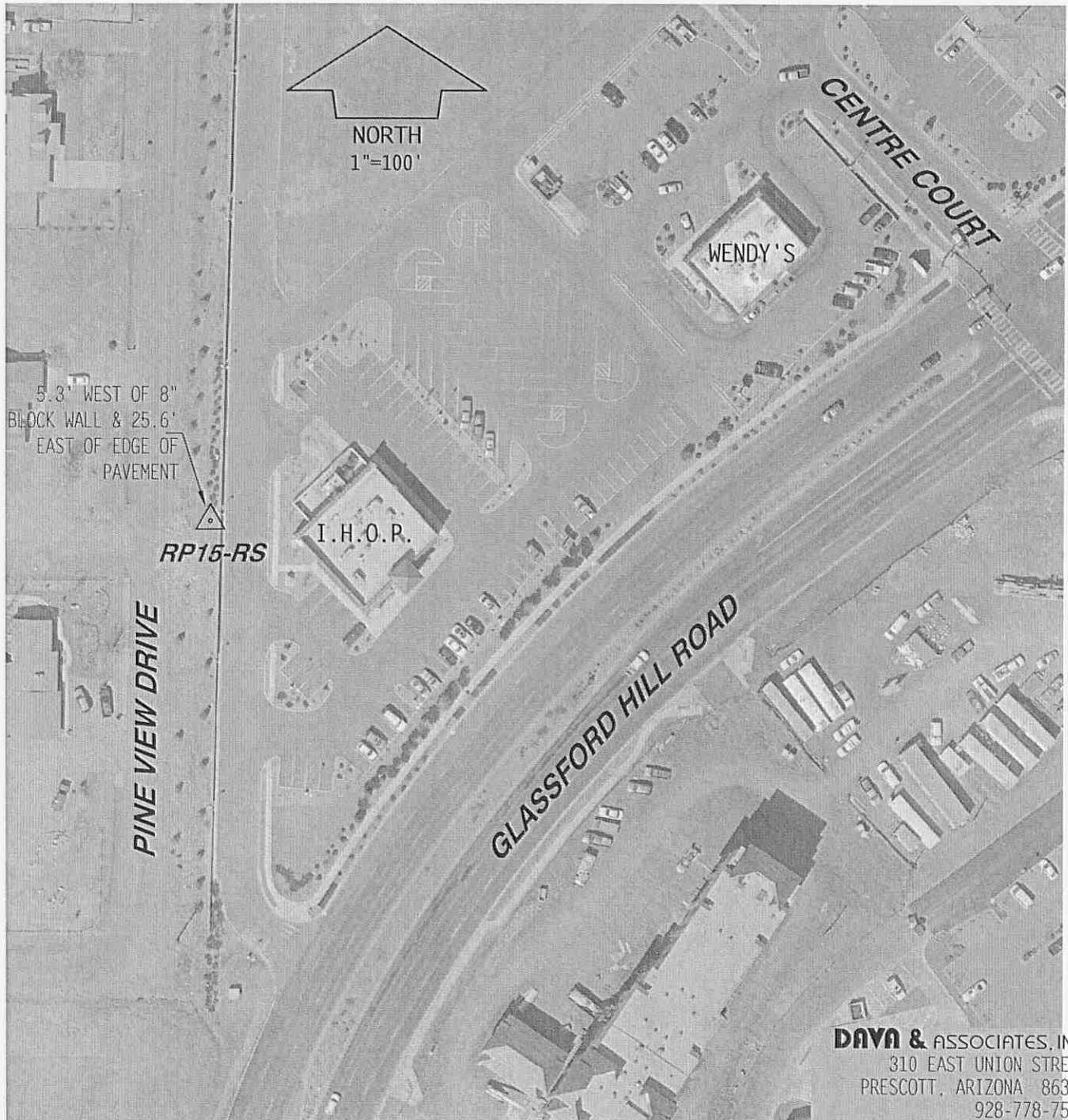
NAME GRID NORTH. GRID EAST. ELEV. NAVD88
RP15-RS 1304903.1563 571820.0716 5166.39

NAME LATITUDE LONGITUDE
RP15-RS 34°35'09.63506"N 112°20'33.18459"W

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83.
THE INTERNATIONAL FOOT WAS USED. SET 3 1/4" ALUMINUM CAP STAMPED "T.O.P.V.
REF. PT. 15 RESET"



EXPIRES 6/30/2011



DAYA & ASSOCIATES, INC.
310 EAST UNION STREET
PRESCOTT, ARIZONA 86303
928-778-7587

T O P V

REF PT

15

RESET

07/08/2010

RST LANDSURVEYING INC.



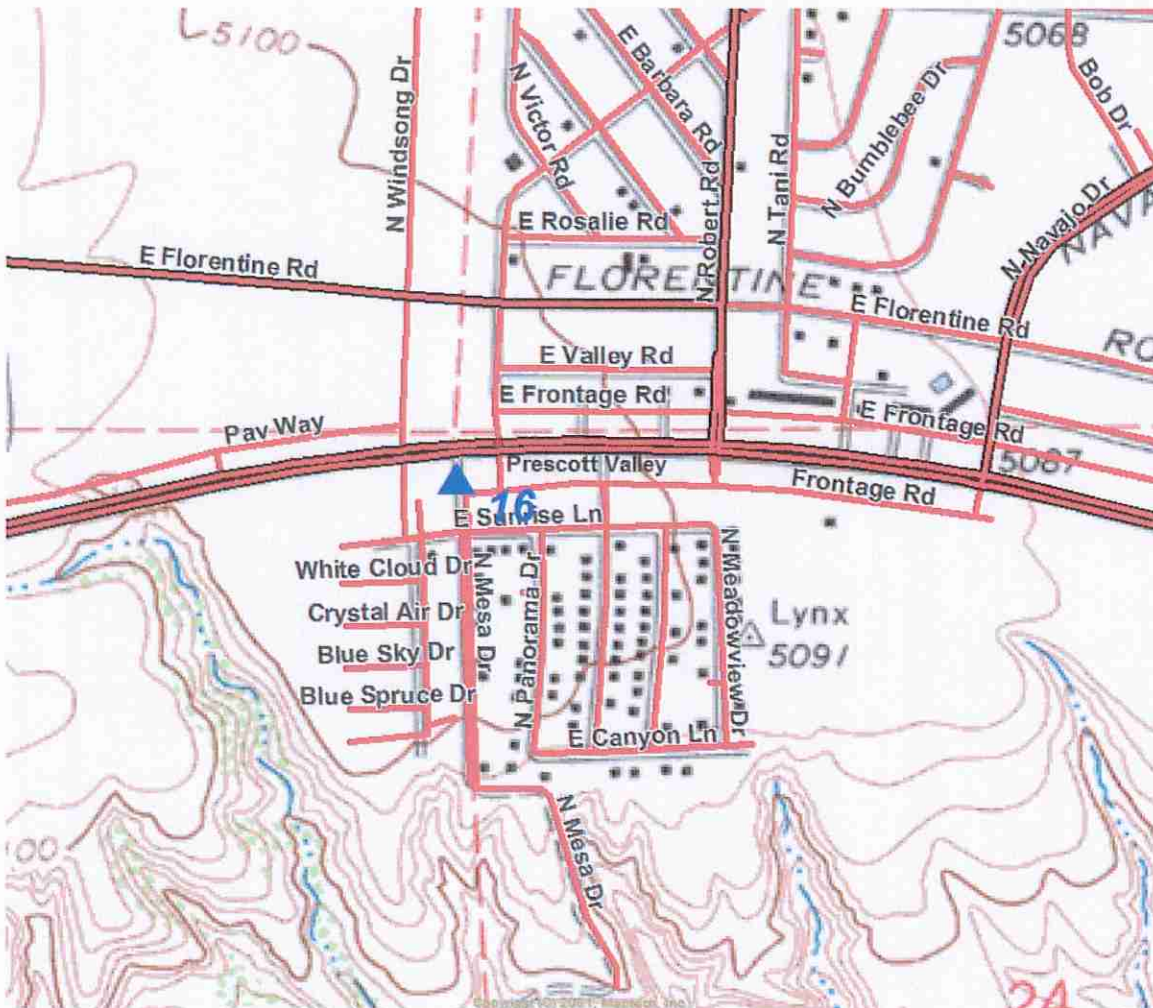
NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 16	WGS84	34°35'08.04236"N	112°19'33.50044"W	5022.308

EXP: 6-30-08

	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 16	NAD83 AZ CENTRAL	1304721.508	576809.266	5108.009

BRASS CAP IN CONCRETE FLUSH WITH GROUND NORTH OF SOUTH FRONTAGE ROAD EAST OF DENNYS. STAMPED RP 16

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008

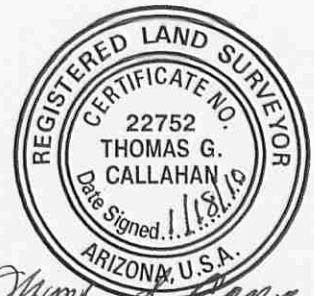


NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
 RP17-RS 1304898.3318 565726.6035 5040.32

NAME GRID NORTH. GRID EAST. ELEV. NAVD88
 RP17-RS 1304901.0937 582128.0418 5040.32

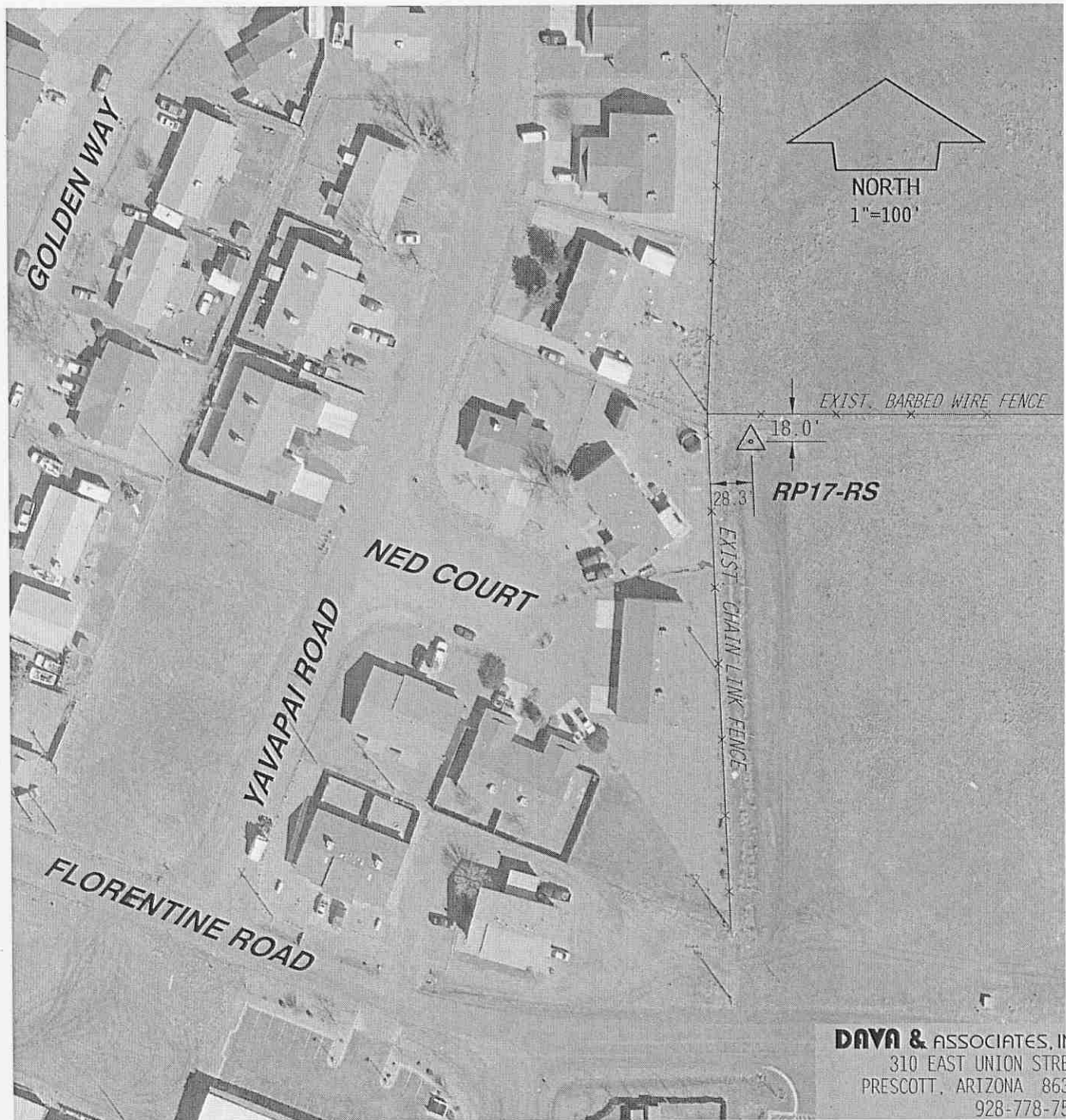
NAME LATITUDE LONGITUDE
 RP17-RS 34°35'10.02760"N 112°18'29.89155"W

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
 SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
 ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83.
 THE INTERNATIONAL FOOT WAS USED. SET 3 1/4" ALUMINUM CAP STAMPED "T.O.P.V.
 REF. PT. 17 RESET"



Thomas G. Callahan

EXPIRES 6/30/2011



DAYA & ASSOCIATES, INC.
 310 EAST UNION STREET
 PRESCOTT, ARIZONA 86303
 928-778-7587

TO PV

REF PT

17

RESET

07/08/2010

RST LANDSURVEYING INC.



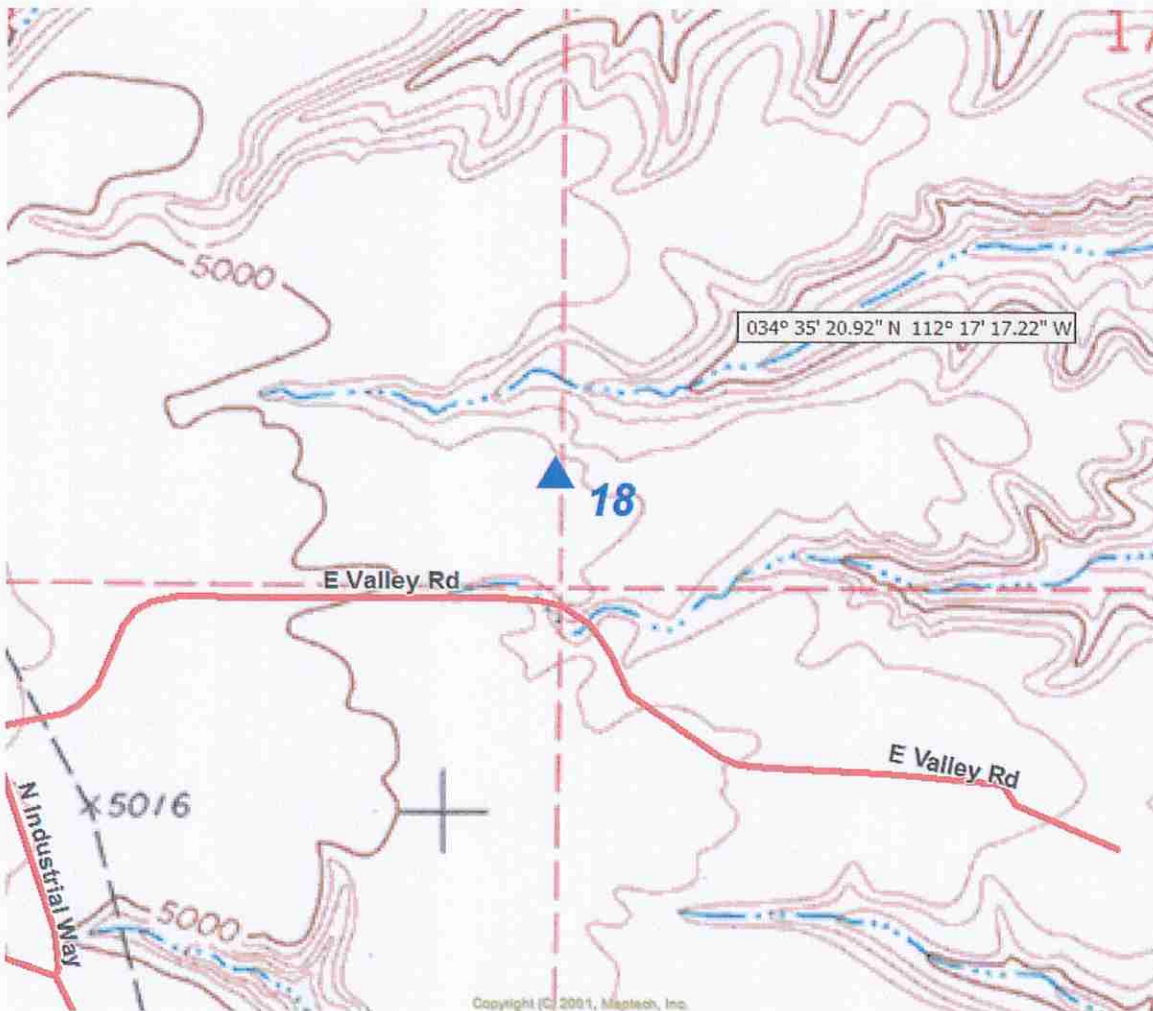
EXP: 6-30-08

NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 18	WGS84	34°35'15.50499"N	112°17'26.45638"W	4890.643
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 18	NAD83 AZ CENTRAL	1305434.682	587433.527	4976.130

BRASS CAP IN CONCRETE FLUSH WITH GROUND TAKE EAST VALLEY ROAD TO SECTION LINE
MONUMENT IS NORTH IN A FENCE LINE. STAMPED RP 18

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS

DATE VISITED – JANUARY 2008



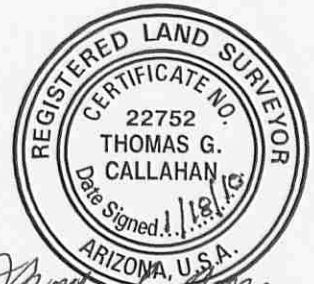
MIN OF PRESCOTT
REF PT VALLEY
1875

NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
RP19-RS 1317281.2397 580040.6177 4981.55

NAME GRID NORTH. GRID EAST. ELEV. NAVD88
RP19-RS 1317279.9986 580040.4610 4981.55

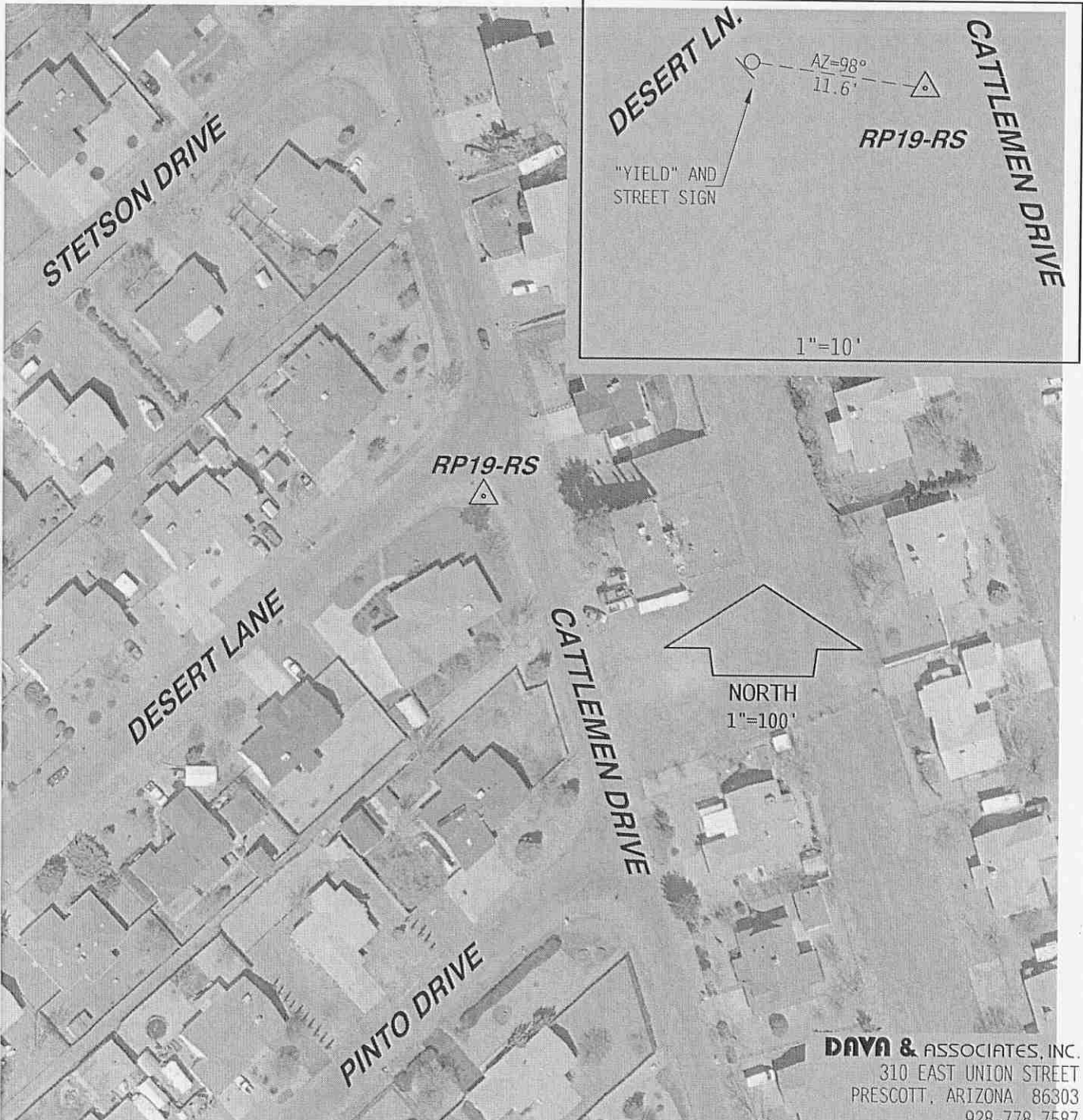
NAME LATITUDE LONGITUDE
RP19-RS 34°37'12.40008"N 112°18'55.44618"W

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83.
THE INTERNATIONAL FOOT WAS USED. SET 3 1/4" ALUMINUM CAP STAMPED "T.O.P.V.
REF. PT. 19 RESET"



Thomas G. Callahan

EXPIRES 6/30/2011



DAYA & ASSOCIATES, INC.
310 EAST UNION STREET
PRESCOTT, ARIZONA 86303
928-778-7587

T O P V

REF PT

19

RESET

07/08/2010

RST LANDSURVEYING INC.



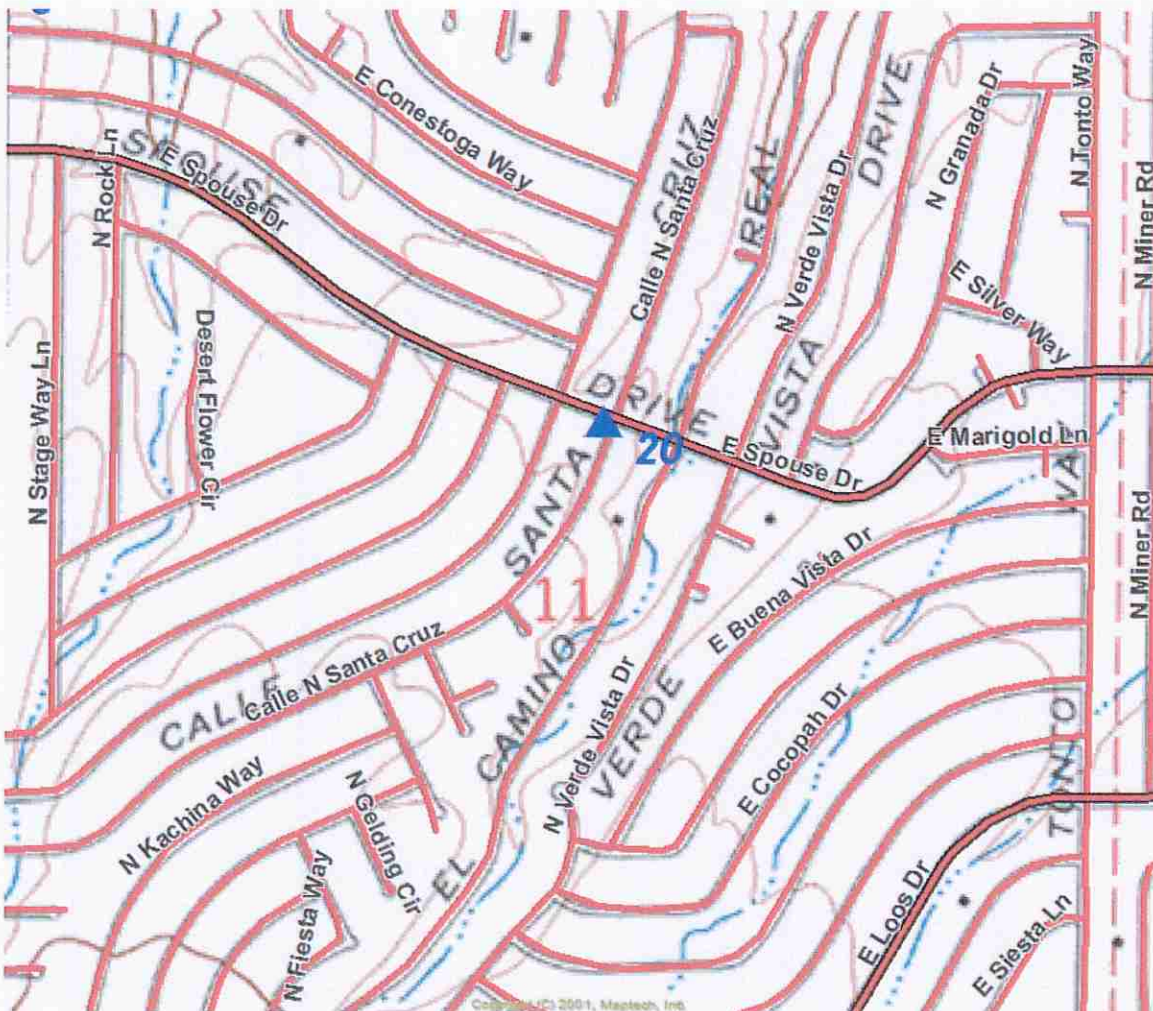
NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 20	WGS84	34°36'32.35618"N	112°19'58.13050"W	4962.392
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 20	NAD83 AZ CENTRAL	1313253.145	574785.229	5048.043

EXP: 6-30-08

BRASS CAP IN CONCRETE FLUSH WITH GROUND AT THE SOUTHWEST CORNER OF SPOUE DR. AND CALLE N SANTA CRUZ. STAMPED RP 20

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS

DATE VISITED – JANUARY 2008



TOWNSHIP OF PRESIDENT
REF PT
20
MILL

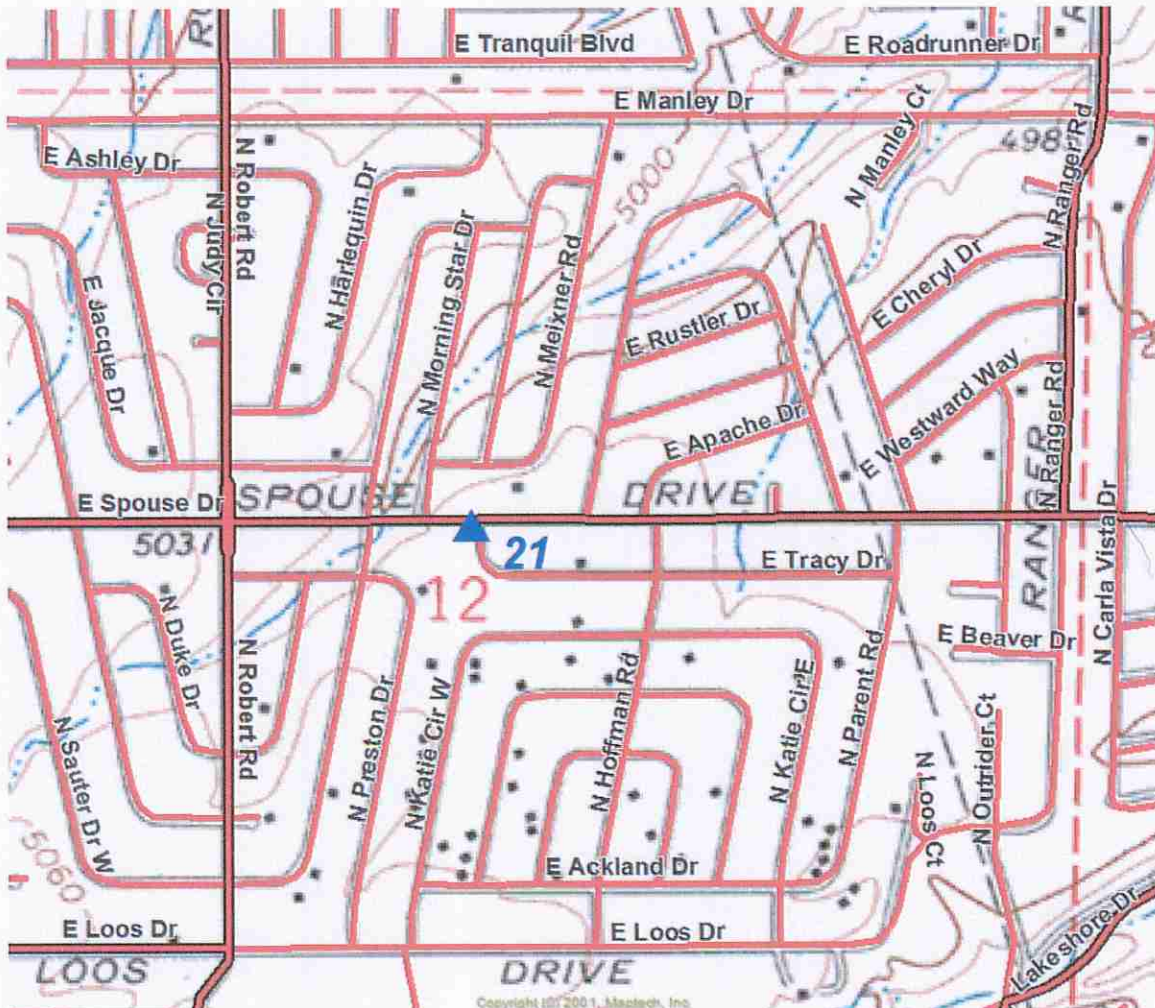
RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 21	WGS84	34°36'34.41991"N	112°19'01.06337"W	4933.056
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 21	NAD83 AZ CENTRAL	1313442.464	579555.795	5018.589

BRASS CAP IN CONCRETE FLUSH WITH GROUND AT THE SOUTHWEST CORNER OF SPOUSE DR. AND TRACY DR. STAMPED RP 21

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF PRES
REPT
21
VALLEY

COIN OF PINKS
TO RECEIPT
122
SANTA

07/15/2010

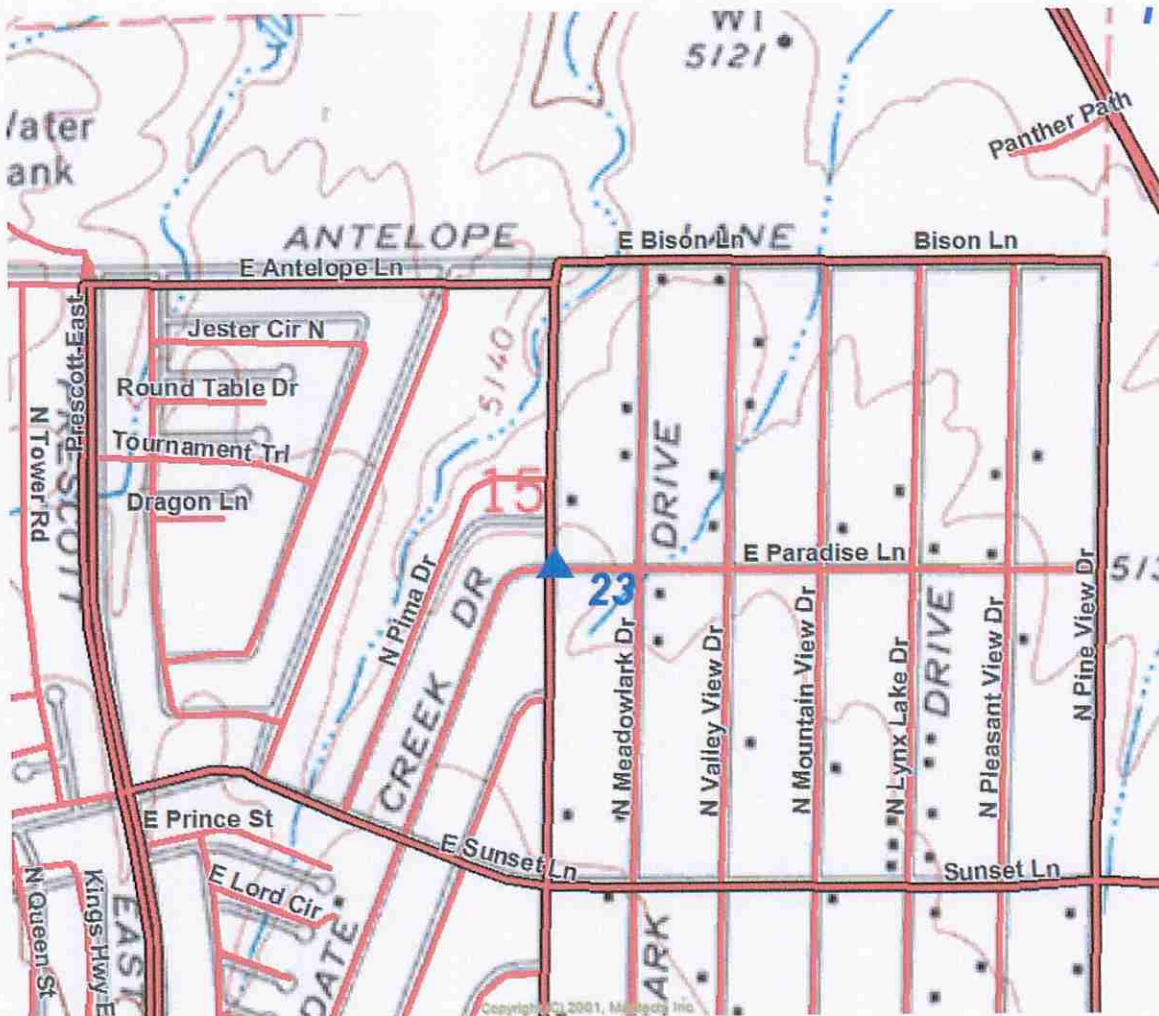
RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 23	WGS84	34°35'35.37671"N	112°21'02.77578"W	5077.579
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 23	NAD83 AZ CENTRAL	1307515.898	569357.313	5163.407

BRASS CAP IN CONCRETE FLUSH WITH GROUND AT THE NORTHEAST CORNER OF PARADISE LN. AND STARLIGHT DR. STAMPED RP 23

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008





TOWN OF PRESCOTT

REPORT

23

TARRANT

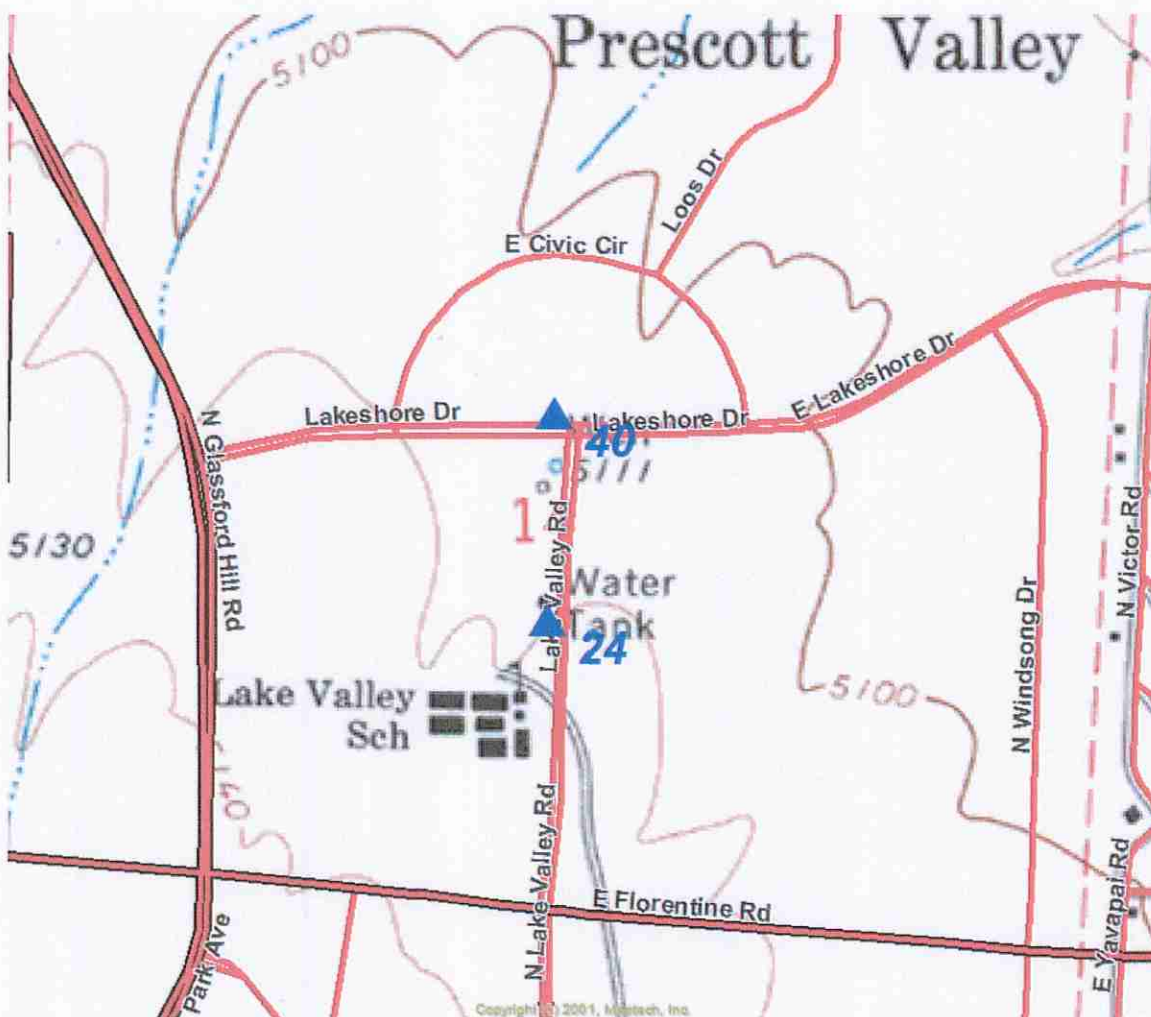
RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 24	WGS84	34°35'31.38737"N	112°20'02.58509"W	5035.957
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 24	NAD83 AZ CENTRAL	1307091.391	574387.413	5121.684

BRASS CAP IN CONCRETE FLUSH WITH GROUND WEST OF LAKE VALLEY RD. BY FENCE .
STAMPED RP 24

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF REDUCED
REPT
1874

NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
RP25-RS 1307680.7900 579583.4598 5062.40

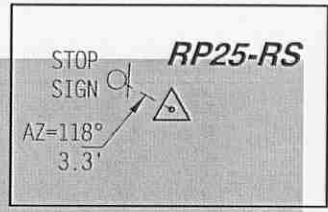
NAME GRID NORTH. GRID EAST. ELEV. NAVD88
RP25-RS 1307682.6525 579583.4509 5062.40

NAME LATITUDE LONGITUDE
RP25-RS 34°35'37.44438"N 112°19'00.45919"W

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83.
THE INTERNATIONAL FOOT WAS USED. SET 3 1/4" ALUMINUM CAP STAMPED "T.O.P.V.
REF. PT. 25 RESET"



Thomas G. Callahan
EXPIRES 6/30/2011



DAYA & ASSOCIATES, INC.
310 EAST UNION STREET
PRESCOTT, ARIZONA 86303
928-778-7587

T O P V

REF PT

25

RESET

07/08/2010

RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 26	WGS84	34°37'45.22568"N	112°22'32.41975"W	5043.315
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 26	NAD83 AZ CENTRAL	1320675.446	561923.061	5129.206

EXP: 6-30-09

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND, MONUMENT LOCATED AT THE SOUTH SIDE OF HIGHWAY 89A AND A ¼ MILE EAST OF THE WATER TANK NEXT TO FENCE AND A HIGHWAY RIGHT OF WAY MARKER. STAMPED RP 26

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF PRESCOTT VALLEY
REFERENCE POINT
26



RLS 2003
S#33861

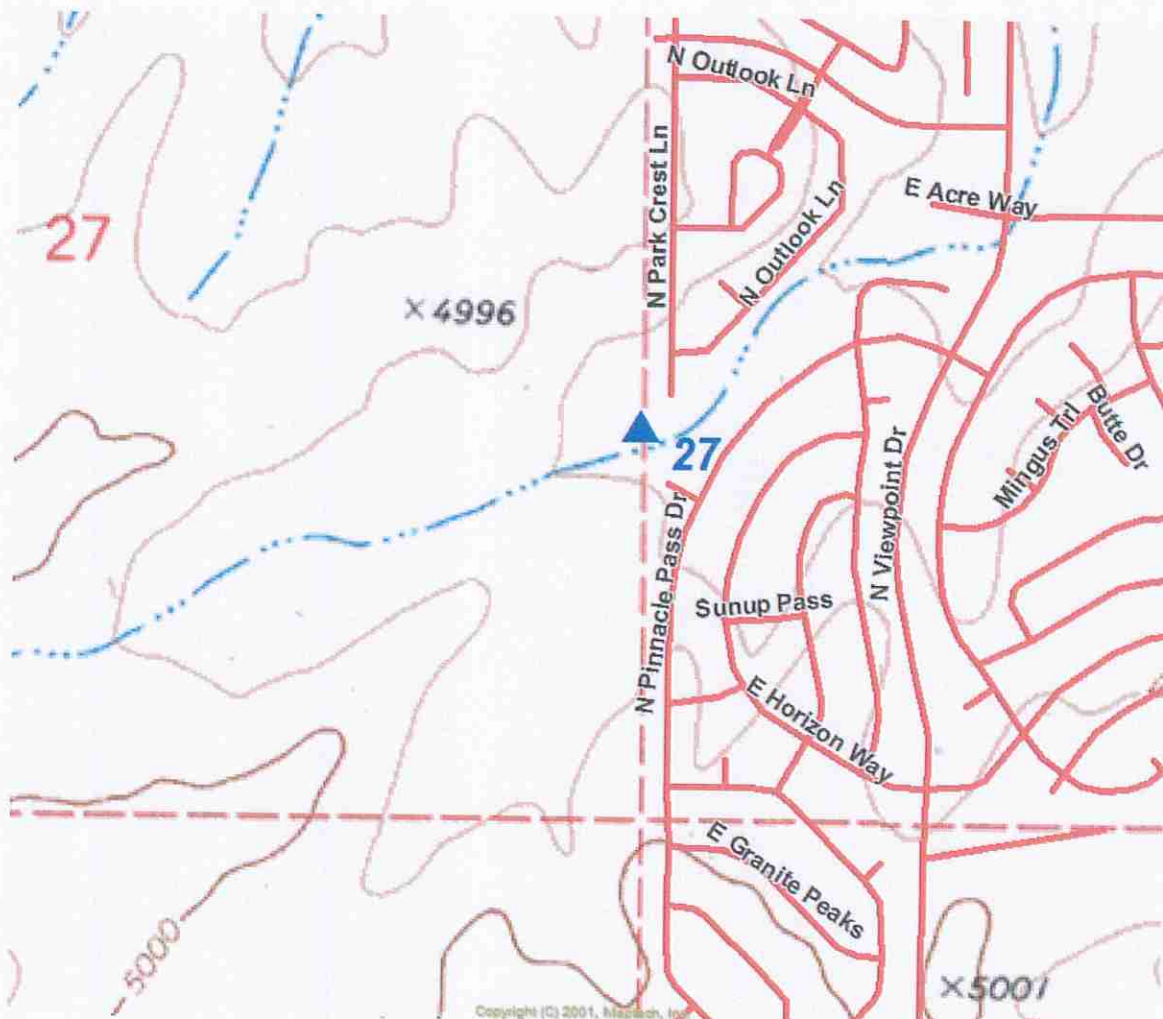
RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 27	WGS84	34°38'53.98536"N	112°20'31.03985"W	4867.663
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 27	NAD83 AZ CENTRAL	1327581.879	572095.016	4953.164

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND, MONUMENT LOCATED IN THE VIEW POINT SUBDIVISION WEST OF THE PUMP STATION WELL, IN THE FENCE LINE. STAMPED RP 27

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF PRESQUIT POINT
REFERENCE



1906
#000
RUS

VALLEY
POINT
21

RST LANDSURVEYING INC.



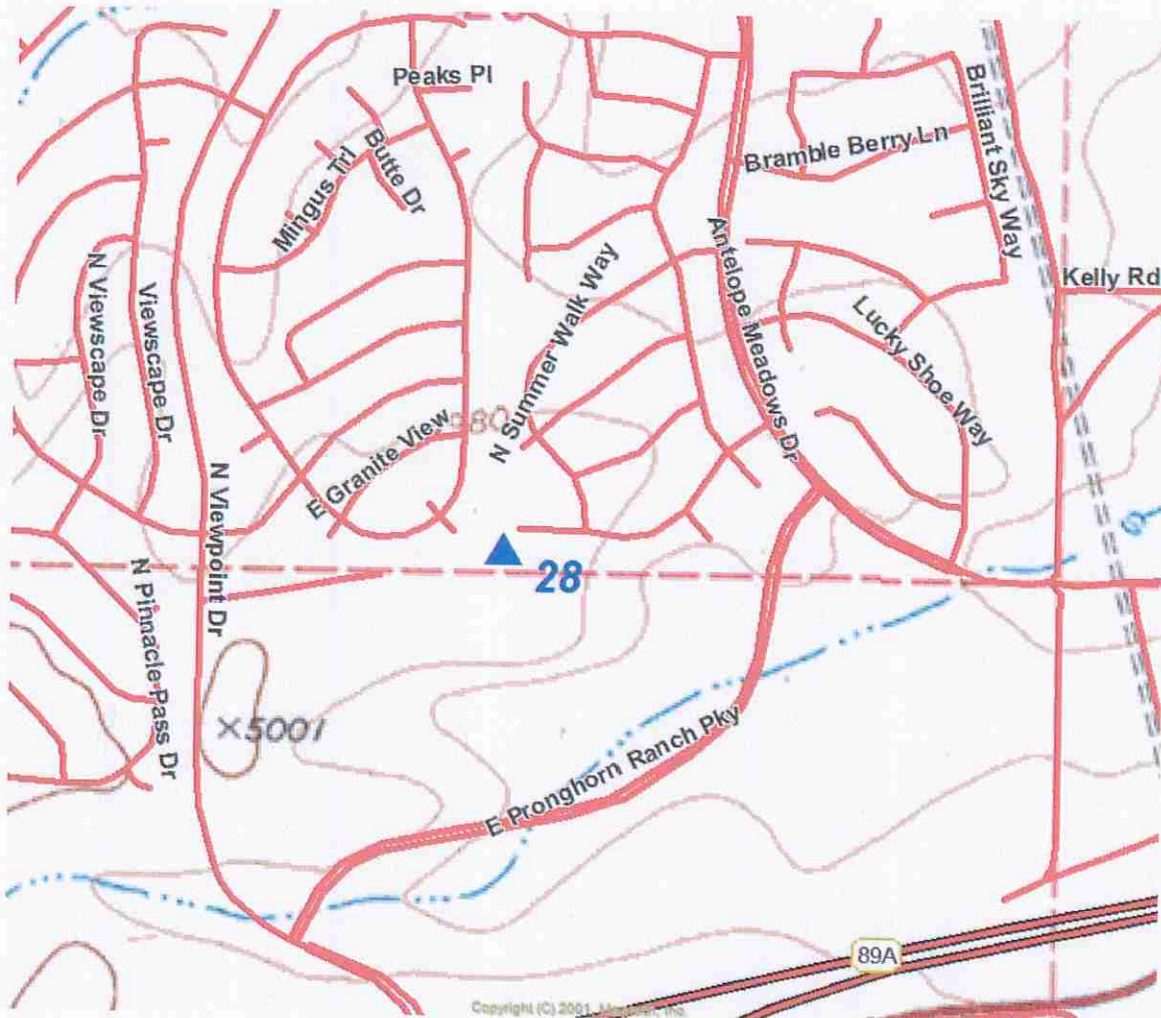
NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 28	WGS84	34°38'37.03499"N	112°19'58.52858"W	4903.095

EXP: 6-30-08

(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 28 AZ CENTRAL	NAD83 1325857.026	574803.988	4988.550

ALUMINUM POST WITH CAP FLUSH WITH GROUND, MONUMENT LOCATED IN THE PRONGHORN SUBDIVISION DOWN CLEAR SKY TRAIL. AT THE DRIVEWAY OF THE PUMP HOUSE ENTRANCE, AT THE END OF THE EAST SIDE BY THE CURB. STAMPED RP 28

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008

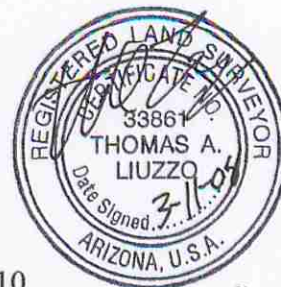


SCOTT VALLEY
PRENSCE POINT 28
TOWN OF
REF



1983
2003
RLS#3

RST LANDSURVEYING INC.

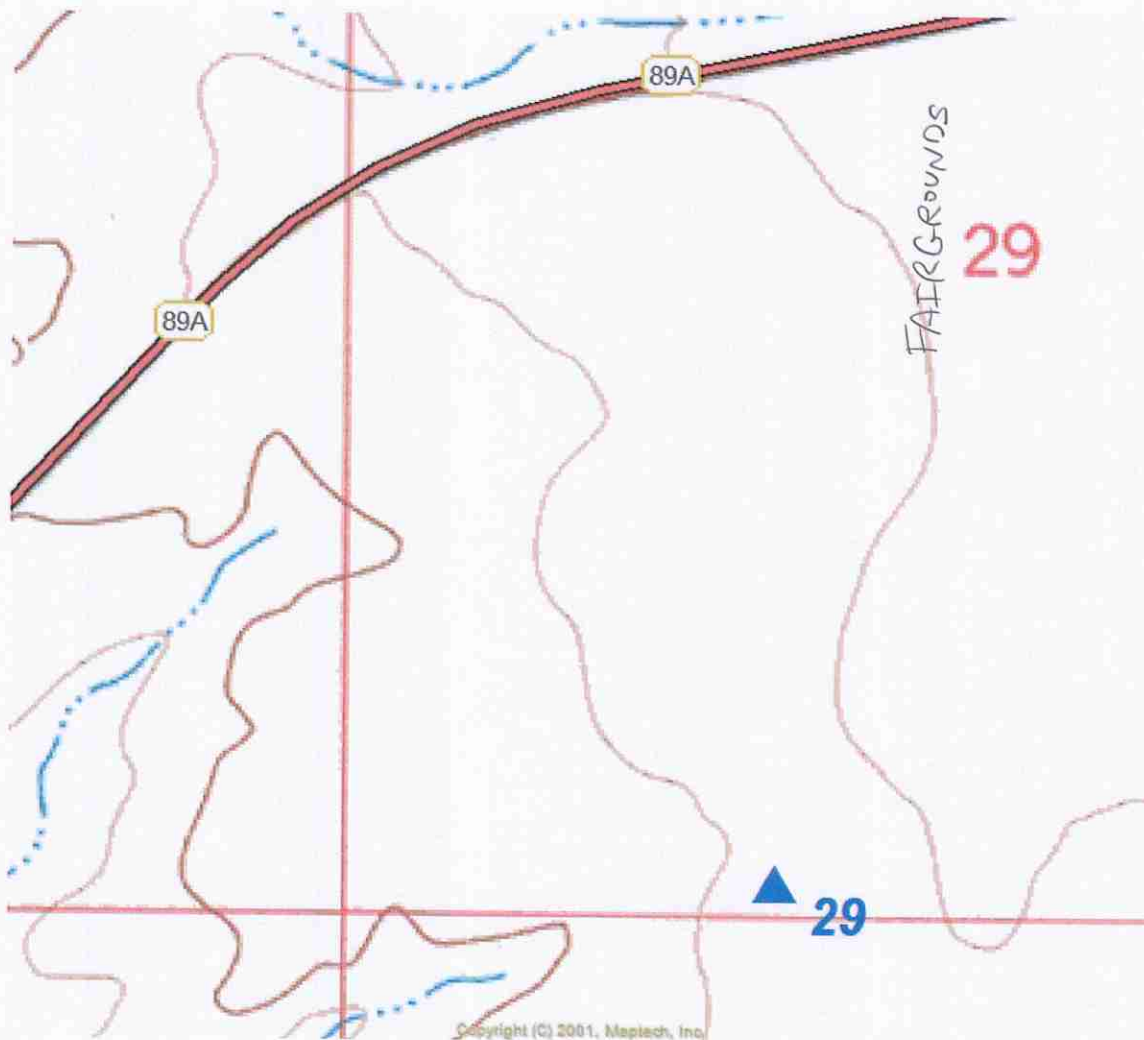


EXP: 6-30-08

NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 29	WGS84	34°38'36.94006"N	112°17'01.68660"W	4937.510
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 29	NAD83 AZ CENTRAL	1325790.010	589578.464	5022.500

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND, MONUMENT LOCATED AT THE COUNTY FAIRGROUNDS ON THE SOUTH WEST CORNER STRAIGHT DOWN THE MAIN ENTRANCE GOING SOUTH PASSED THE CHECKIN SHACK. STAMPED RP 29

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF
REFERRENT

PRESCOTT
REFERENCE

SCOTT
POINT

VALLEY
POINT

62

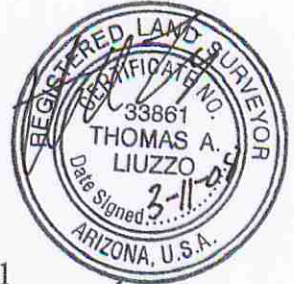


2003

RLS#33861

62

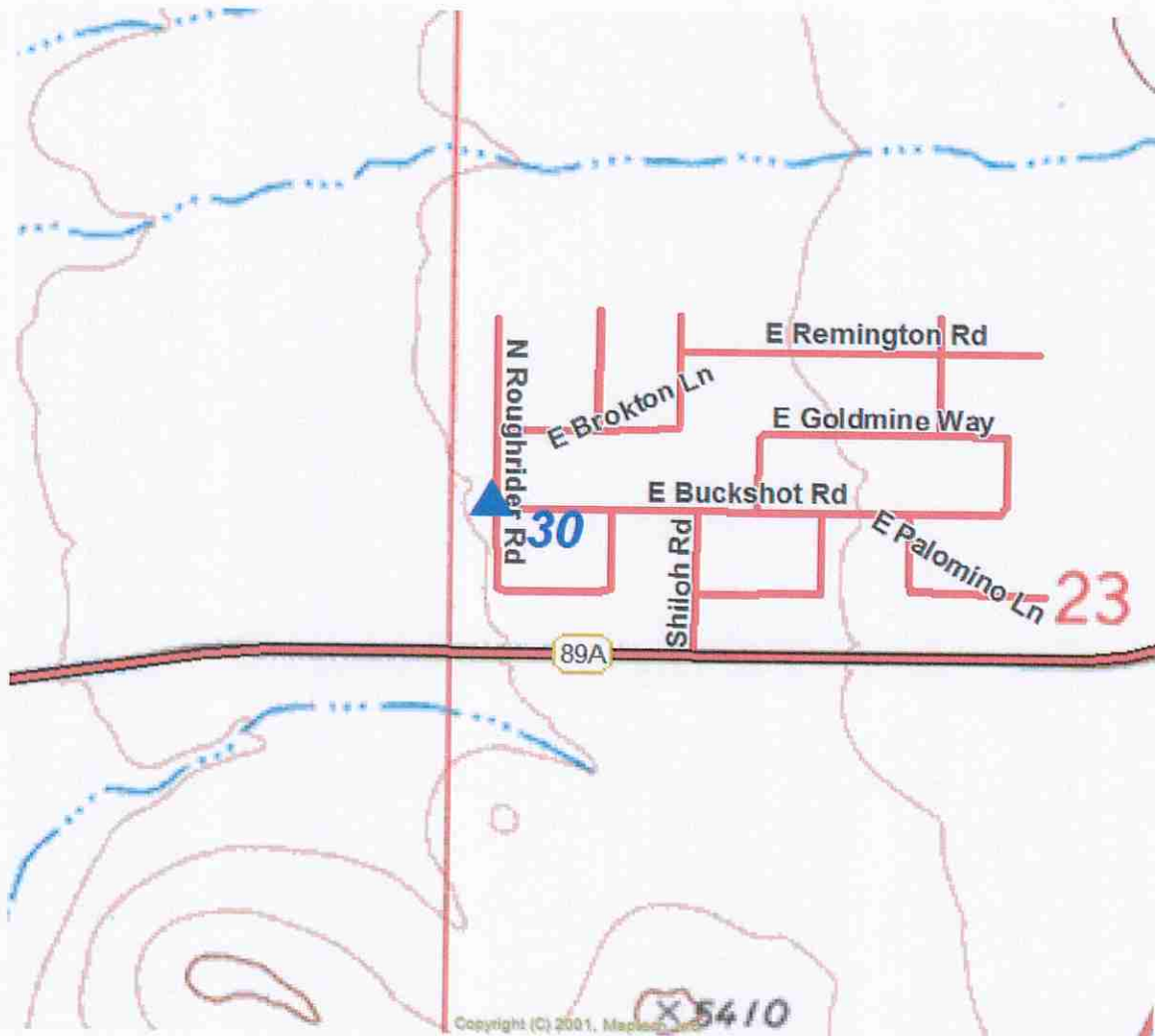
RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 30	WGS84	34°39'59.52739"N	112°14'10.82498"W	5235.101
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 30	NAD83 AZ CENTRAL	1334090.108	603879.801	5319.350

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND, MONUMENT LOCATED IN THE MINGUS WEST SUBDIVISION NEXT TO THE DRAINAGE BASIN AT THE NORTH END OF THE DRAIN PAN BETWEEN THE CURB AND THE SIDEWALK. STAMPED RP 30

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF PRESCOTT
REFERENCE POINT
VALLEY 30



RLS#3361
2003

RST LANDSURVEYING INC.



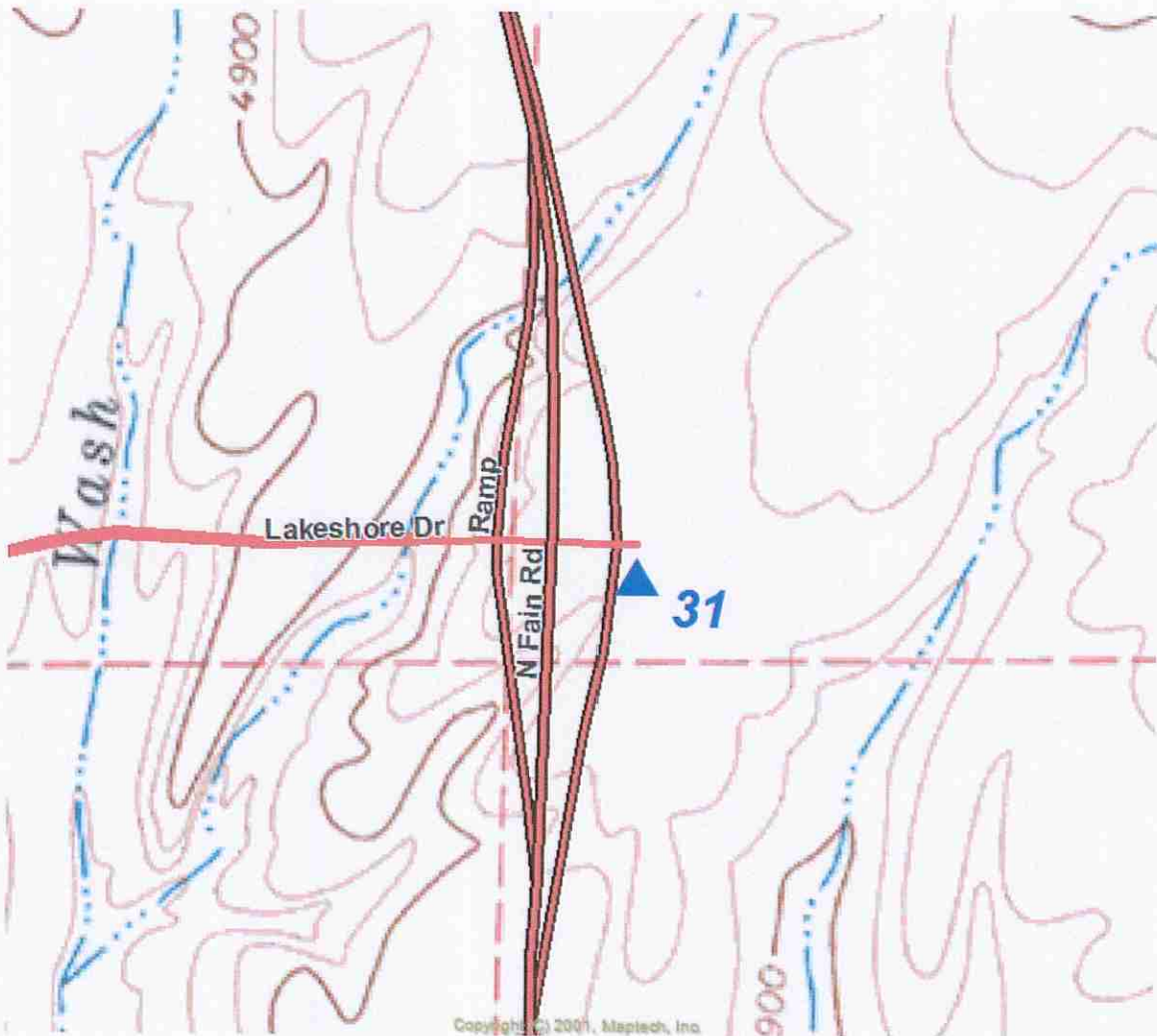
NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 31	WGS84	34°36'56.78995"N	112°16'14.79649"W	4856.986

EXP: 10-30-08

	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 31	NAD83 AZ CENTRAL	1315651.869	593460.402	4942.123

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND, MONUMENT LOCATED AT THE INTERSECTION OF FAIN RD. AND LAKESHORE DR. ON THE SOUTHEAST SIDE. ON THE TOP OF THE BERM NEXT TO THE FENCE CORNER, OFF THE NORTH BOUND RAMP. STAMPED RP 31

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF PRESCOTT
REFERENCE POINT
VALLEY 31



PLS 2003
#33861

NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
RP32-RS 1305192.6520 592354.7165 4798.93

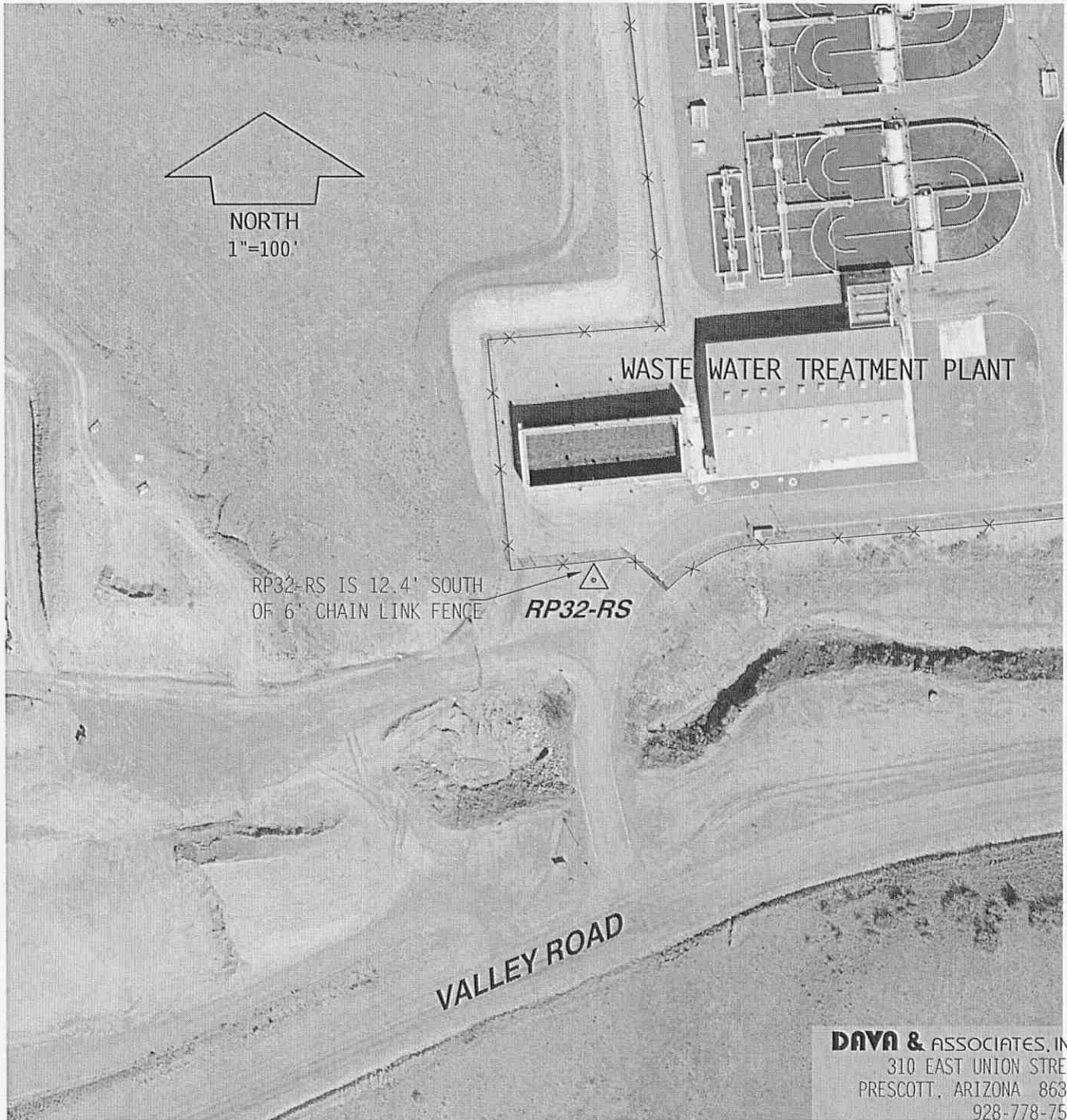
NAME GRID NORTH. GRID EAST. ELEV. NAVD88
RP32-RS 1305195.3188 592350.5790 4798.93

NAME LATITUDE LONGITUDE
RP32-RS 34°35'13.28725"N 112°16'27.58268"W

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83.
THE INTERNATIONAL FOOT WAS USED. SET 3 1/4" ALUMINUM CAP STAMPED "T.O.P.V.
REF. PT. 32 RESET"



Thomas G. Callahan
EXPIRES 6/30/2011



DAYA & ASSOCIATES, INC.
310 EAST UNION STREET
PRESCOTT, ARIZONA 86303
928-778-7587

T O P

REF PT

32

RESET

07/08/2010

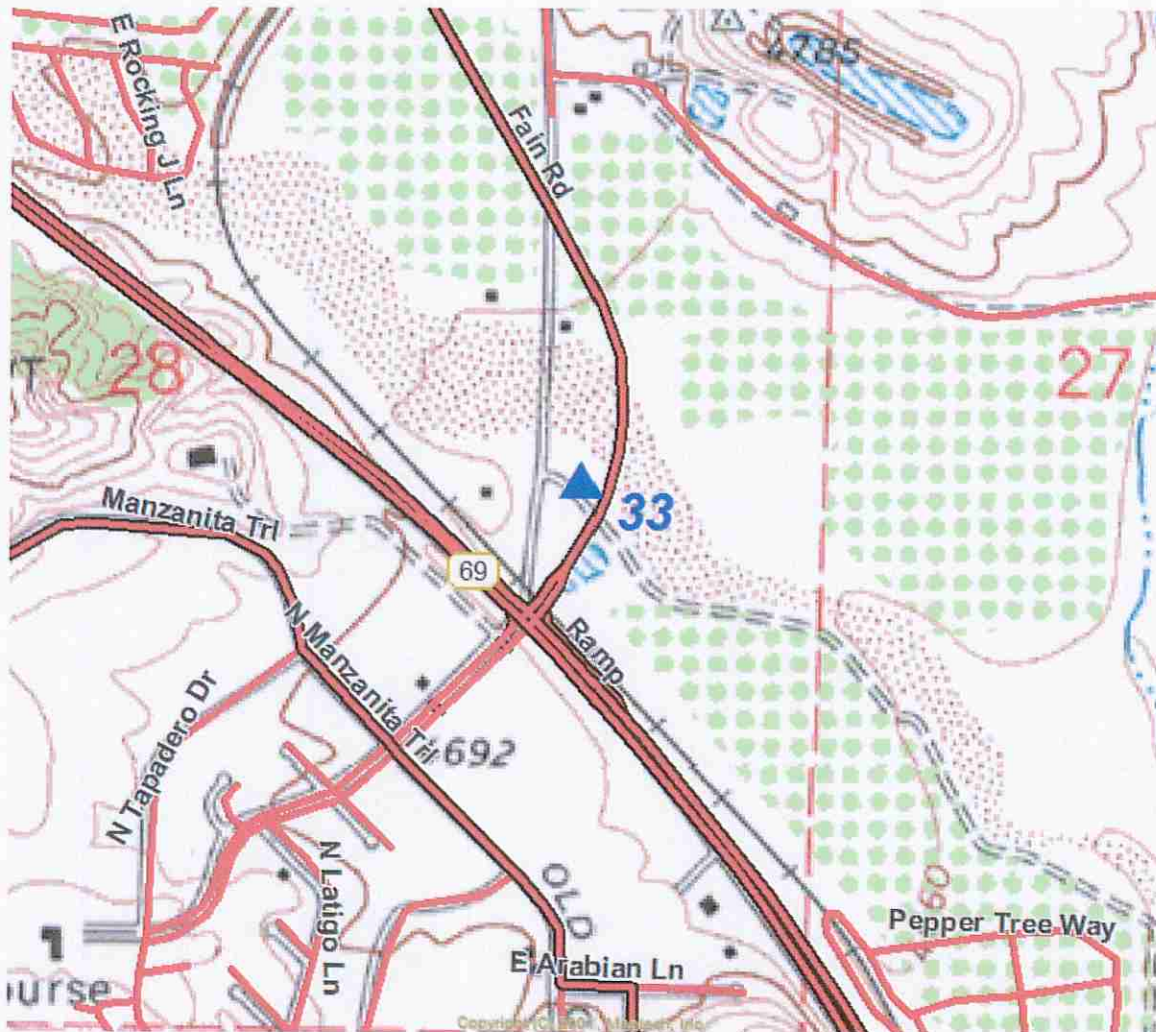
RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT	
RP 33	WGS84	34°33'47.82345"N	112°15'31.70114"W	4583.030	EXP: <u>6-30-08</u>
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88	
RP 33	NAD83 AZ CENTRAL	1296537.046	596997.303	4668.561	

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND, MONUMENT LOCATED ON THE SANTA FE LOOP BY THE COUNTY BUILDING NEXT TO THE FENCE CORNER ON THE EAST SIDE OF SANTA FE LOOP ROAD. STAMPED RP 33

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF
BRENSCO POINT
VALLEY
33



1930
2030
RLS#

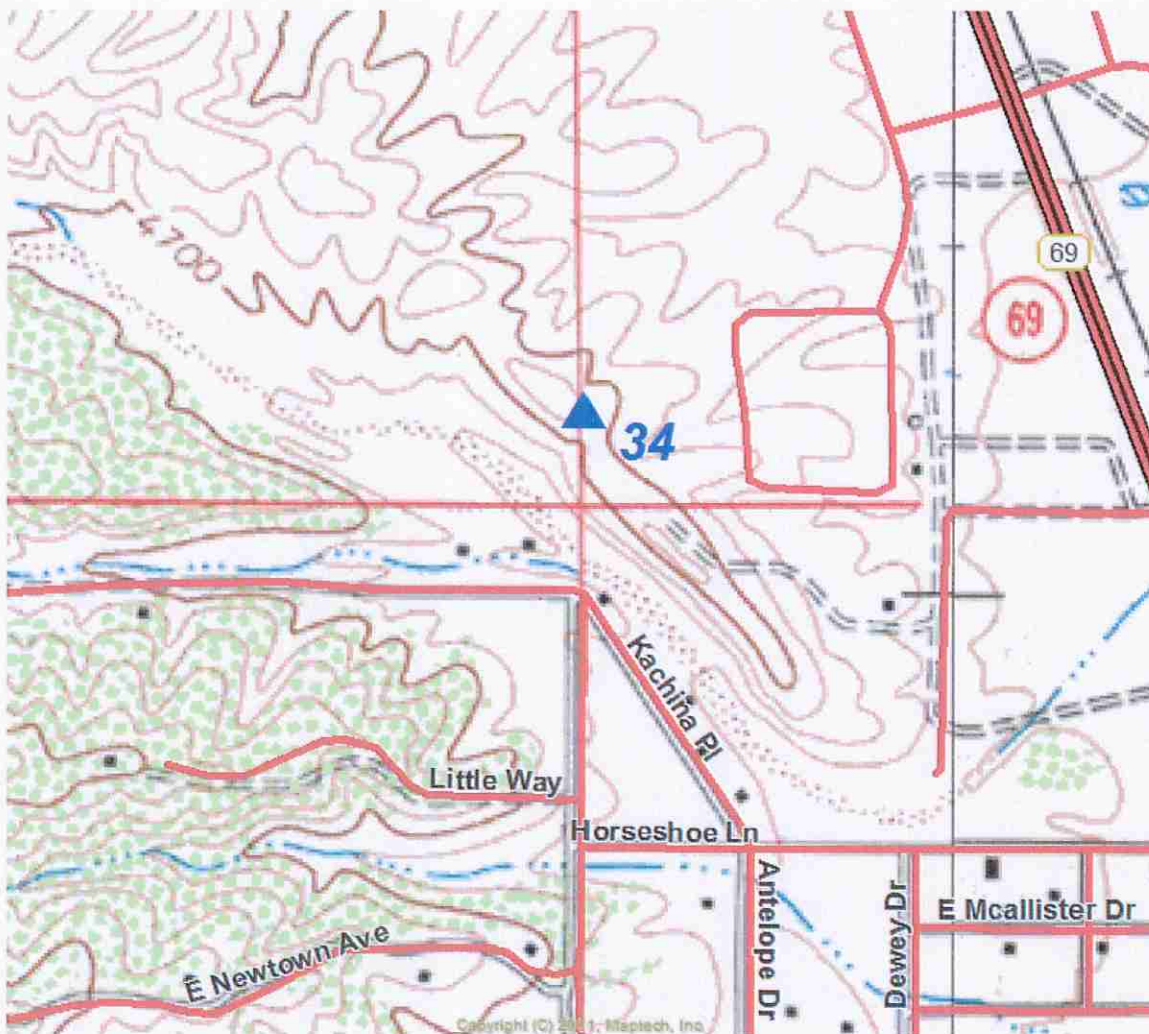
RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 34	WGS84	34°32'37.30909"N	112°15'20.06763"W	4623.782
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 34	NAD83 AZ CENTRAL	1289405.598	597946.261	4709.447

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND, MONUMENT LOCATED AT THE BRADSHAW MOUNTAIN MIDDLE SCHOOL BEHIND THE BASEBALL FIELD ON THE HILL NEXT TO A FENCE. STAMPED RP 34

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF
REFERENC
PRESCOTT
VALLEY
AZ



RLS#3
2003
1991

RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 35	WGS84	34°33'56.34567"N	112°16'37.20228"W	4839.844

EXP: 6-30-08

(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88	
RP 35	NAD83	1297417.594	591522.729	4925.408

AZ CENTRAL

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND, MONUMENT LOCATED AT THE NORTHWEST CORNER OF THE POND ON TOP OF THE BERM. STAMPED RP 35

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF PRESGOTT
REFERRENGE



RLS

2035
3035
4035
5035
6035

5035
6035
7035
8035
9035

RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 36	WGS84	34°33'53.00150"N	112°17'26.75836"W	4887.984
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 36	NAD83 AZ CENTRAL	1297094.606	587377.377	4973.598

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND, MONUMENT LOCATED BY THE GAS PIPELINE BUILDING SOUTHWEST OF THE BUILDING NEXT TO THE FENCE. STAMPED RP 36

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF PRESIDENT
REFERRENT



RLS # 3
2003
38
1996

VALLEY
607

RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 37	WGS84	34°34'11.35613"N	112°19'31.29927"W	5035.694

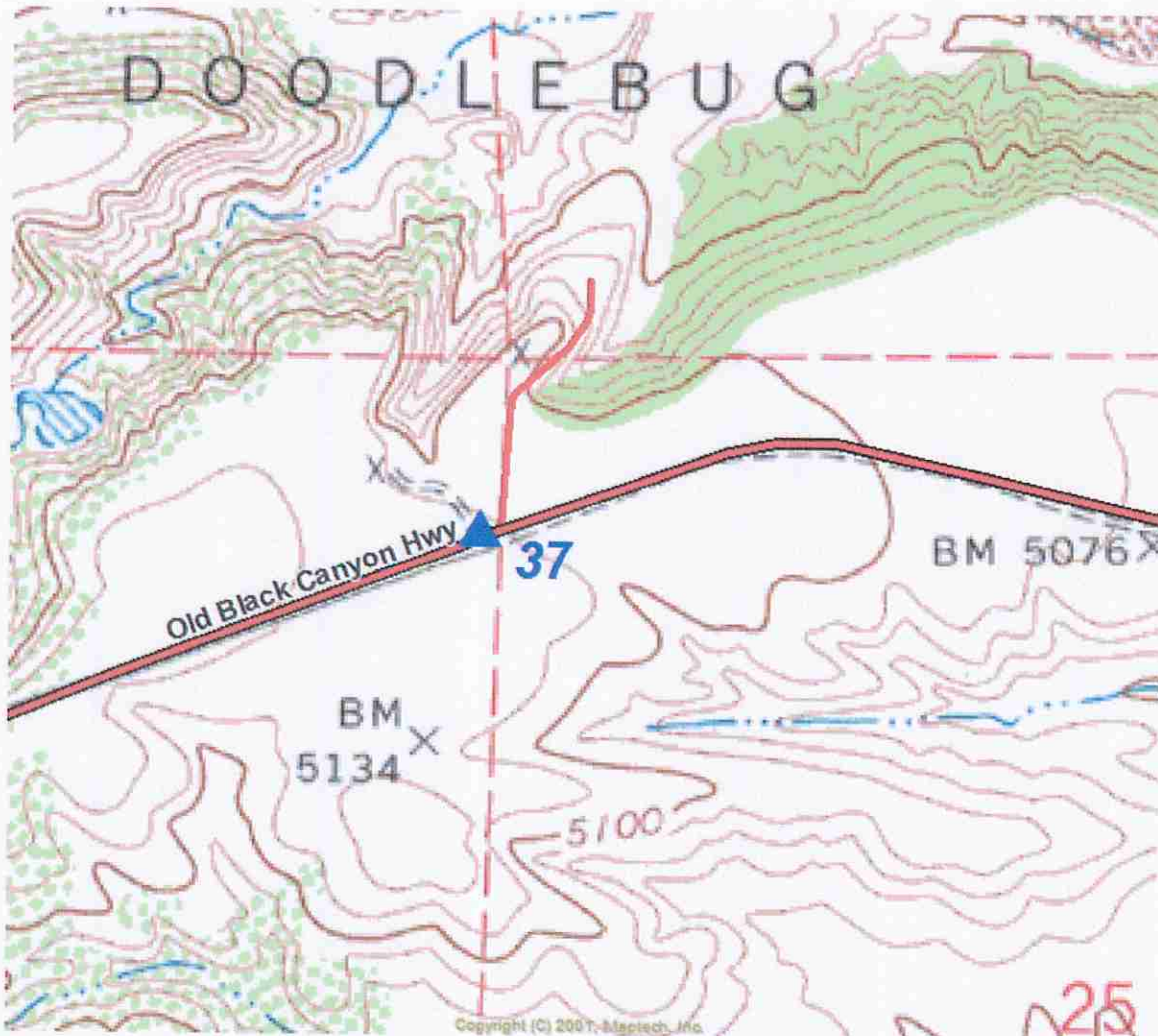
(2007) NORTHING .IFT EASTING .IFT ELEVATION NAVD 88

RP 37	NAD83 AZ CENTRAL	1298990.415	576970.096	5121.440
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EXP: 6-30-08

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND, MONUMENT LOCATED ON THE EAST END OF THE STONERIDGE SUBDIVISION WHERE THE PAVEMENT TURNS TO A DIRT ROAD ON THE NORTH SIDE OF THE ROAD BY A FENCE CORNER. STAMPED RP 37

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008



TOWN OF PRESCOTT VALLEY
REFERENCE POINT 37



2003
LS#33861

RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 38	WGS84	34°34'22.60779"N	112°22'04.06291"W	5198.501

(2007) NORTHING .IFT EASTING .IFT ELEVATION NAVD 88

EXP: 6-30-09

RP 38	NAD83 AZ CENTRAL	1300182.221	564201.006	5284.472
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ALUMINUM POST WITH CAP 1 FT ABOVE GROUND, MONUMENT LOCATED OFF HIGHWAY 69 BY THE NORTHEAST END OF VICTORIAN ESTATES SUBDIVISION ON A BERM BY THE BLOCK WALL WHERE THE GAURDRAIL STARTS. STAMPED RP 38

SUPERSEDED CONTROL – 1991 & 2003 REFERENCE POINTS
DATE VISITED – JANUARY 2008

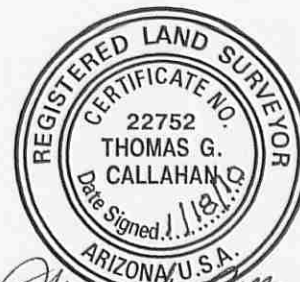


NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
RP39-RS 1303104.1985 565726.6035 5284.01

NAME GRID NORTH. GRID EAST. ELEV. NAVD88
RP39-RS 1303107.5404 565731.0742 5284.01

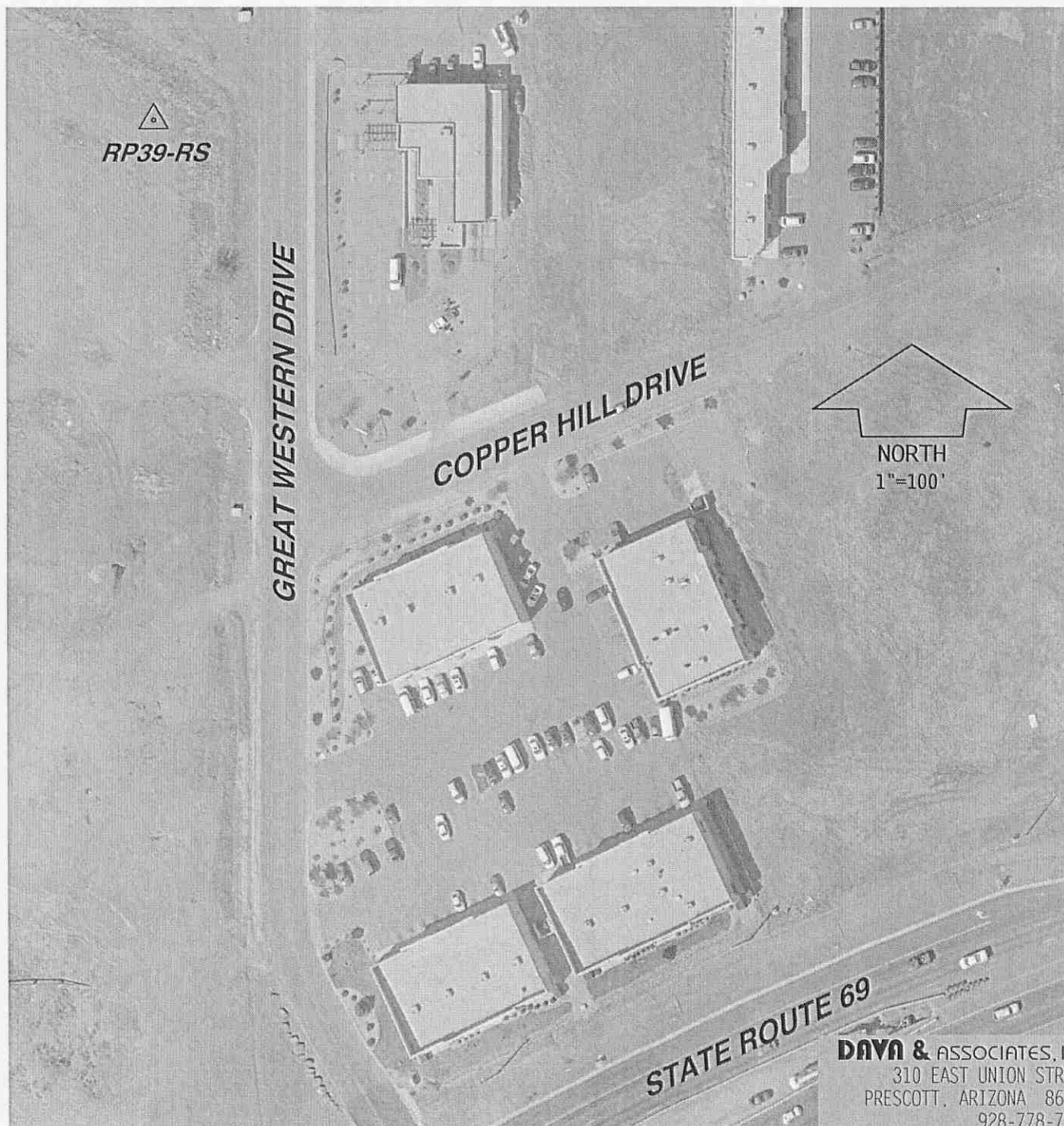
NAME LATITUDE LONGITUDE
RP39-RS 34°34'51.61252"N 112°21'45.91942"W

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83.
THE INTERNATIONAL FOOT WAS USED. SET 3 1/4" ALUMINUM CAP STAMPED "T.O.P.V.
REF. PT. 39 RESET"



Thomas G. Callahan

EXPIRES 6/30/2011



DAY & ASSOCIATES, INC.
310 EAST UNION STREET
PRESCOTT, ARIZONA 86303
928-778-7587

T O P V

REF PT

39

RESET

07/15/2010

NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
RP40 1308048.0123 574415.7564 5111.70

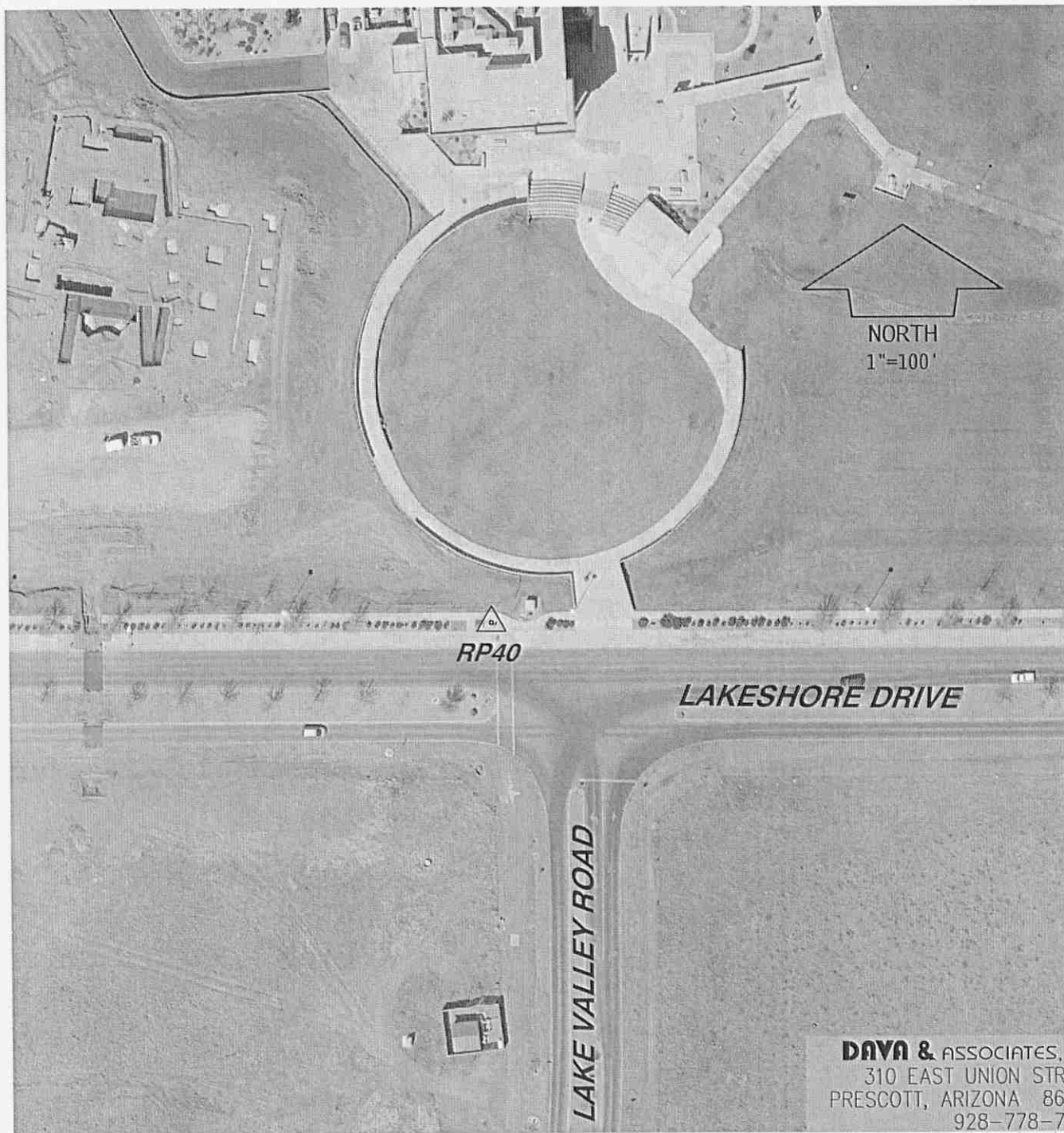
NAME GRID NORTH. GRID EAST. ELEV. NAVD88
RP40 1308049.7560 574417.4181 5111.70

NAME LATITUDE LONGITUDE HEIGHT
RP40 34°35'40.86883"N 112°20'02.27358"W 5026.35

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES
ARE ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83.
THE INTERNATIONAL FOOT WAS USED. FOUND 3 1/4" ALUMINUM CAP IN CONCRETE
STAMPED "T.O.P.V. RP40"



EXPIRES 6/30/2011



DAYA & ASSOCIATES, INC.
310 EAST UNION STREET
PRESCOTT, ARIZONA 86303
928-778-7587

TOWN OF PRESCOTT VALLEY
REFERENCE POINT 40



2003
RLS#33861

RST LANDSURVEYING INC.

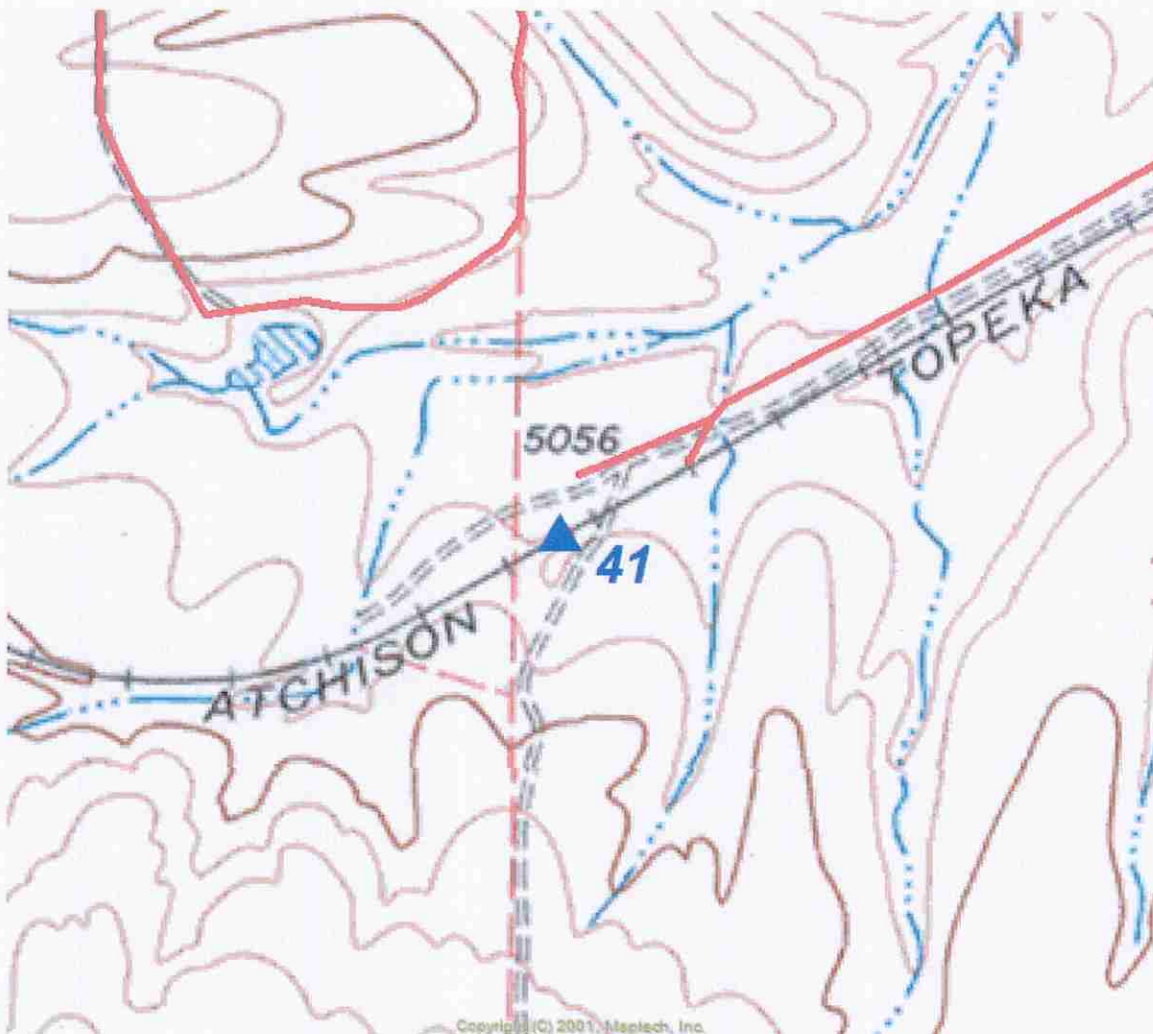


EXP: 6-30-09

NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 41	WGS84	34°36'28.31791"N	112°21'33.33111"W	4977.302
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 41	NAD83 AZ CENTRAL	1312878.787	566826.451	5063.144

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND FROM GLASSFORD HILL RD. AND SANTA FE LOOP RD. HEAD WEST ON SANTA FE LOOP APPROX .3 MILES TO END OF PAVEMENT FOLLOW RAILWAY FOR APPROX. .5 MILES RP IS IN SOUTH BANK OF RAILWAY BENCH. STAMPED RP 41

DATE VISITED – JANUARY 2008



09/02/2010



RST LANDSURVEYING INC.

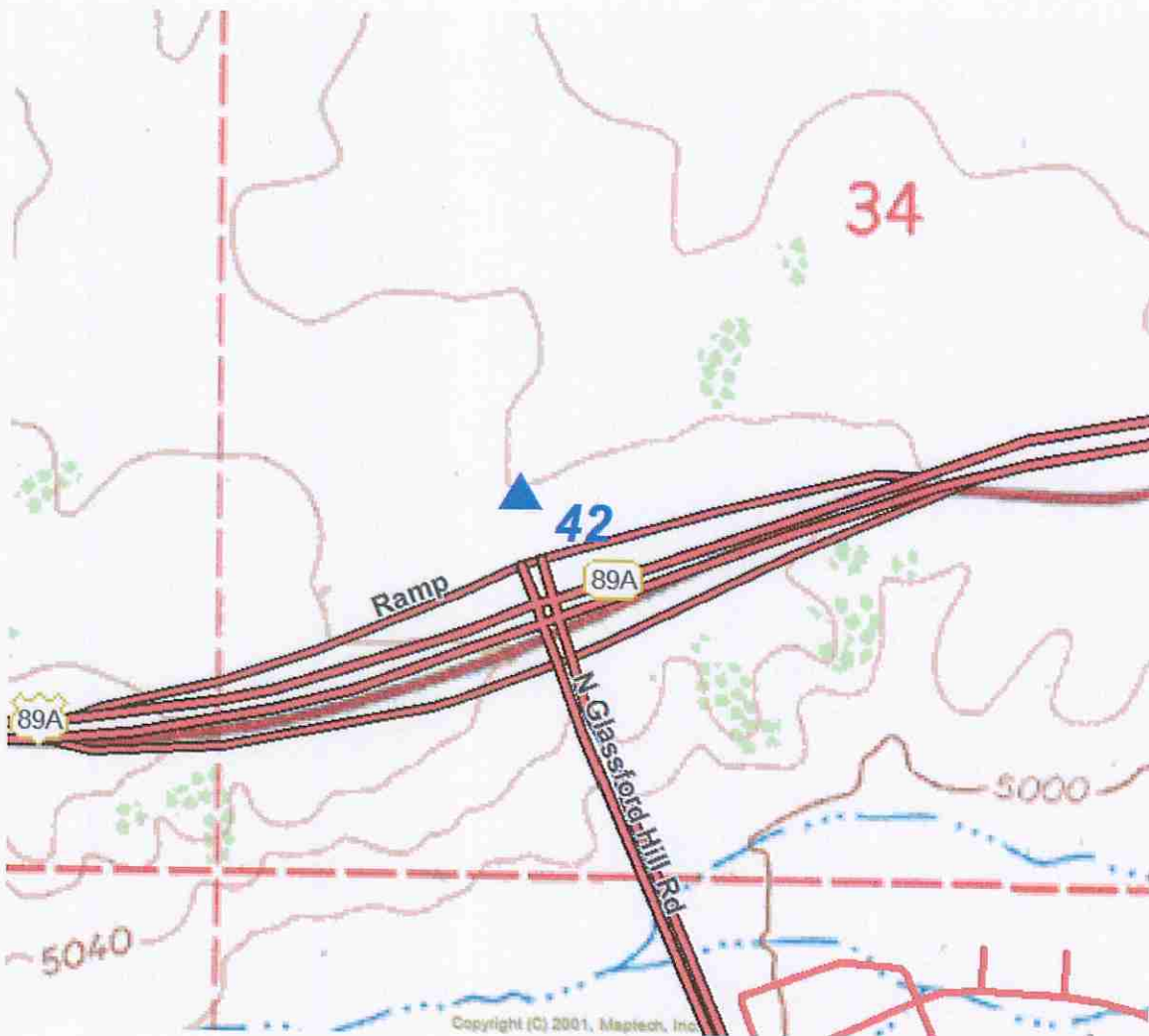


EXP: 6-30-08

NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 42	WGS84	34°37'59.28018"N	112°21'19.57174"W	4948.419
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 42	NAD83 AZ CENTRAL	1322069.112	568016.501	5034.130

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND FROM GLASSFORD HILL RD. CONTINUE NORTH TO THE FENCE LINE AT THE TOP OF THE BANK. STAMPED RP 42

DATE VISITED – JANUARY 2008





09/02/2010

RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 43	WGS84	34°39'06.29168"N	112°18'40.13231"W	4821.750

EXP: 6-30-08

(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88	
RP 43	NAD83 AZ CENTRAL	1328788.240	581365.295	4906.938

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND. TAKE COYOTE SPRINGS RD. HEADING NORTH PASSED WESLEY DR. RP IN NORTHEAST CORNER . STAMPED RP 43

DATE VISITED – JANUARY 2008



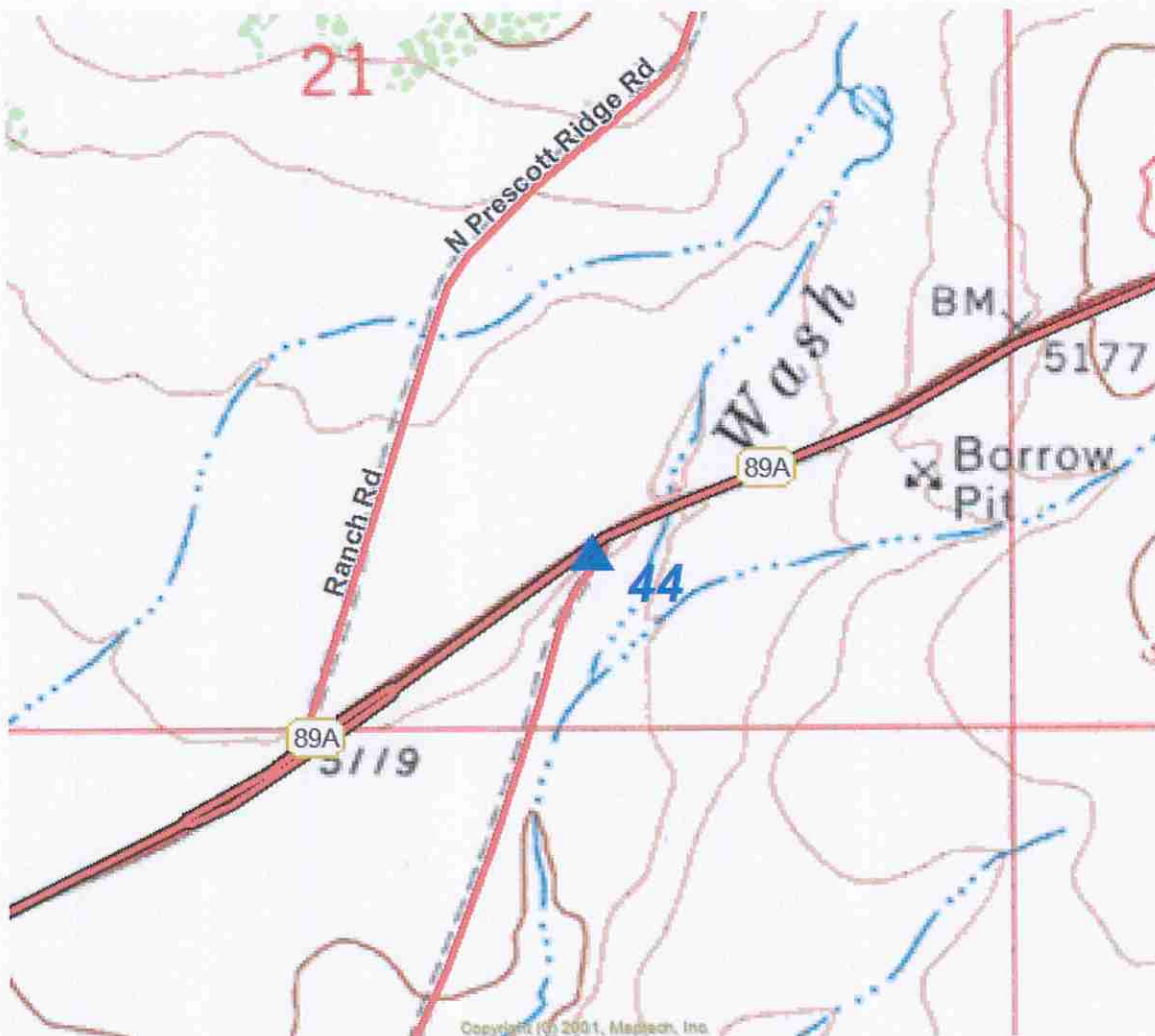
RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 44	WGS84	34°39'34.46822"N	112°15'35.92704"W	5036.267
(2007)		NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 44	NAD83 AZ CENTRAL	1331580.269	596763.170	5120.859

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND. 30 FT +/- PAST MILE POST 328 ON SOUTH SIDE OF HIGHWAY 89A . STAMPED RP 44

DATE VISITED – JANUARY 2008



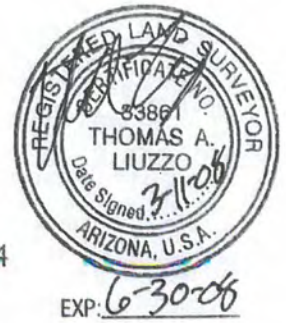
TOWN OF PRESSCOTT POINT VALLEY
REFERENCE



RP 44

RL 2008
S# 33861

RST LANDSURVEYING INC.

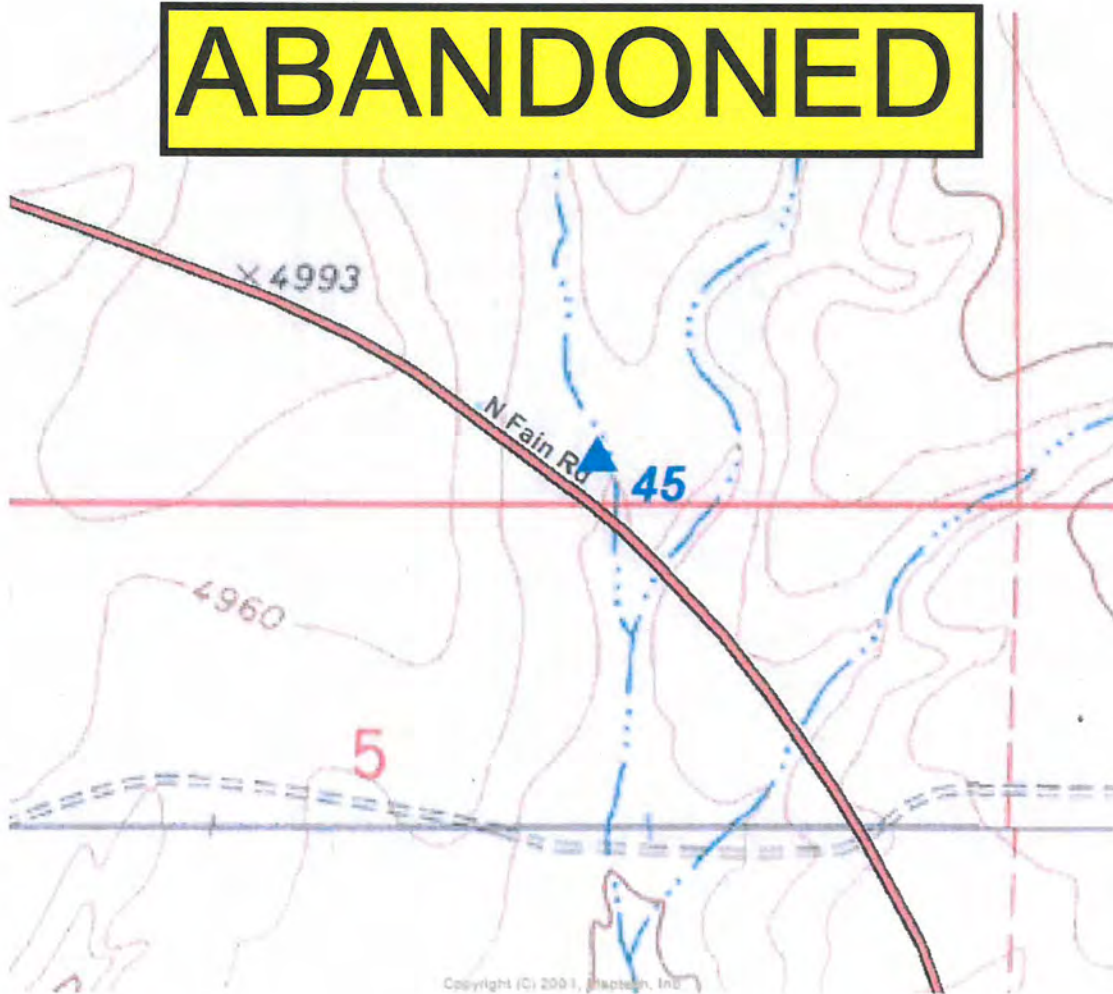


NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 45	WGS84	34°37'45.42785"N	112°16'39.80534"W	4838.314
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 45	NAD83 AZ CENTRAL	1320576.056	591387.912	4923.383

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND. EAST SIDE OF FAIN ROAD APPROX. 400' NORTHWEST OF BRIDGE AT COYOTE WASH IN RIGHT OF WAY FENCE. STAMPED RP 45

DATE VISITED – JANUARY 2008

ABANDONED



RST LANDSURVEYING INC.

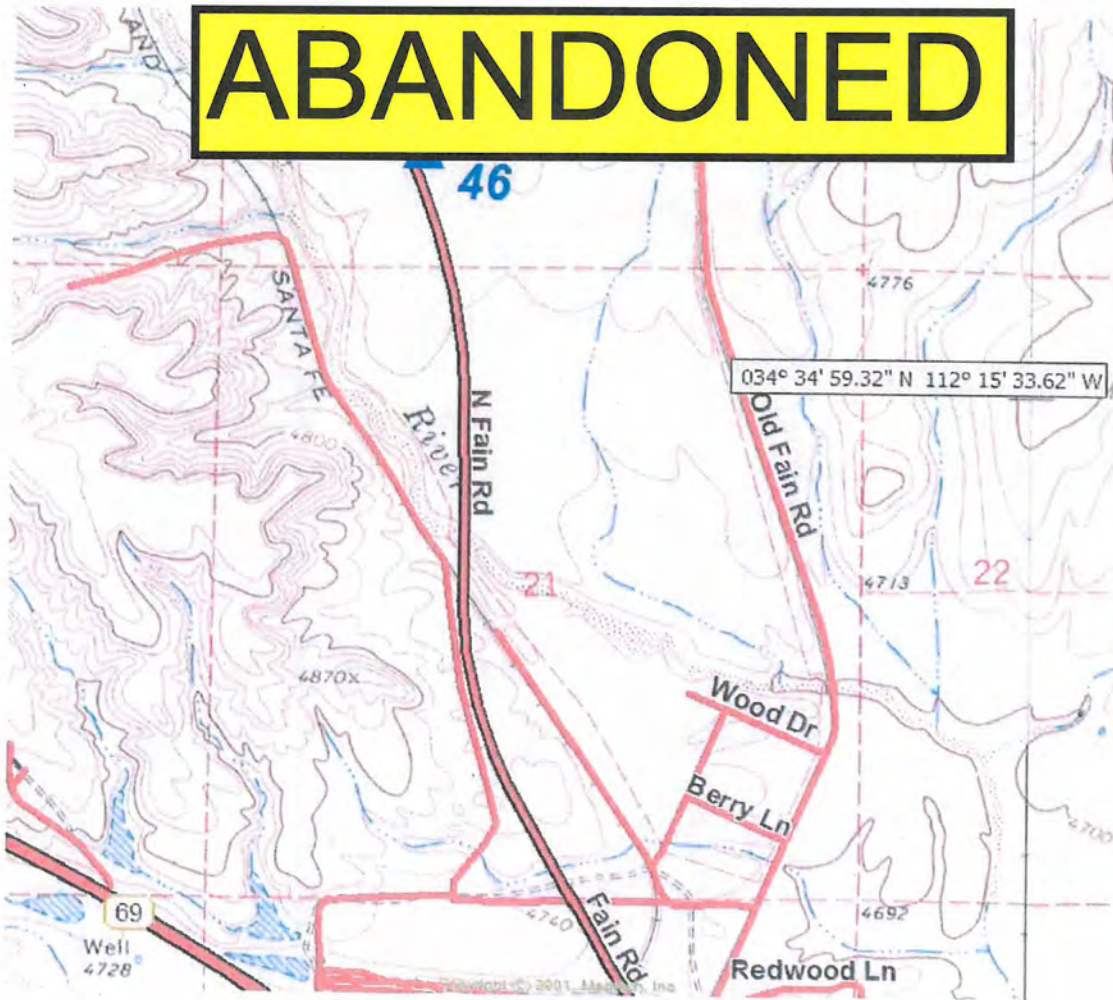


NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 46	WGS84	34°35'19.91423"N	112°16'02.78262"W	4690.127
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 46	NAD83 AZ CENTRAL	1305855.290	594430.404	4775.482

EXP: 10-30-08

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND. 1.1 MILES NORTH OF SANTA FEE LOOP RD. AND 1.9 MILES SOUTH OF LAKESHORE DR. STAMPED RP 46

DATE VISITED – JANUARY 2008



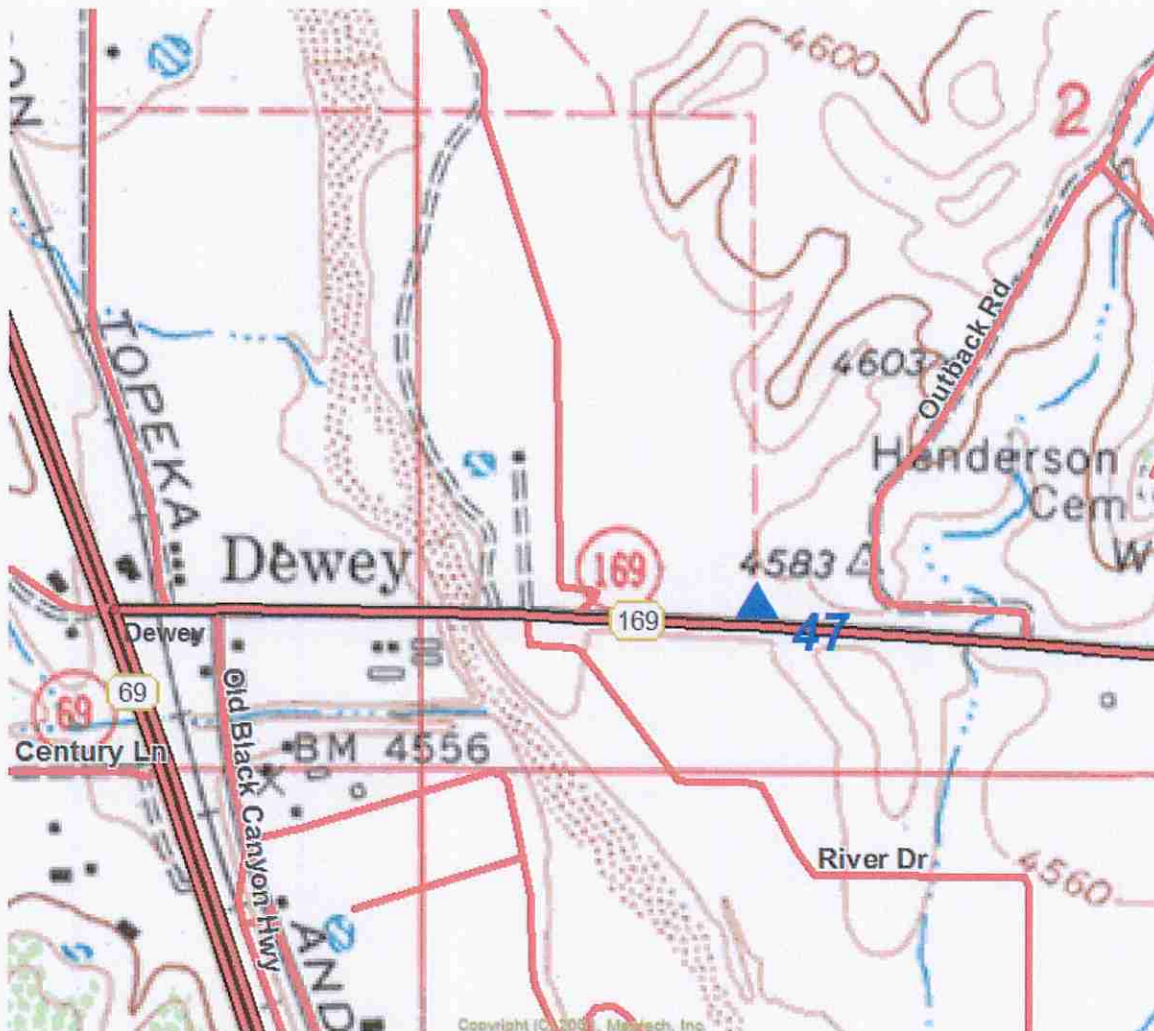
RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 47	WGS84	34°31'47.71216"N	112°14'00.63201"W	4476.801
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 47	NAD83 AZ CENTRAL	1284370.392	604575.037	4562.530

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND. ON THE NORTH SIDE OF HIGHWAY 169 AT A FENCE CORNER INTERSECTION. STAMPED RP 47

DATE VISITED – JANUARY 2008



TOWN OF PRESSCOTT
REFERENCE POINT
VALLEY



RP 47

PL 2008
S# 33861

RST LANDSURVEYING INC.



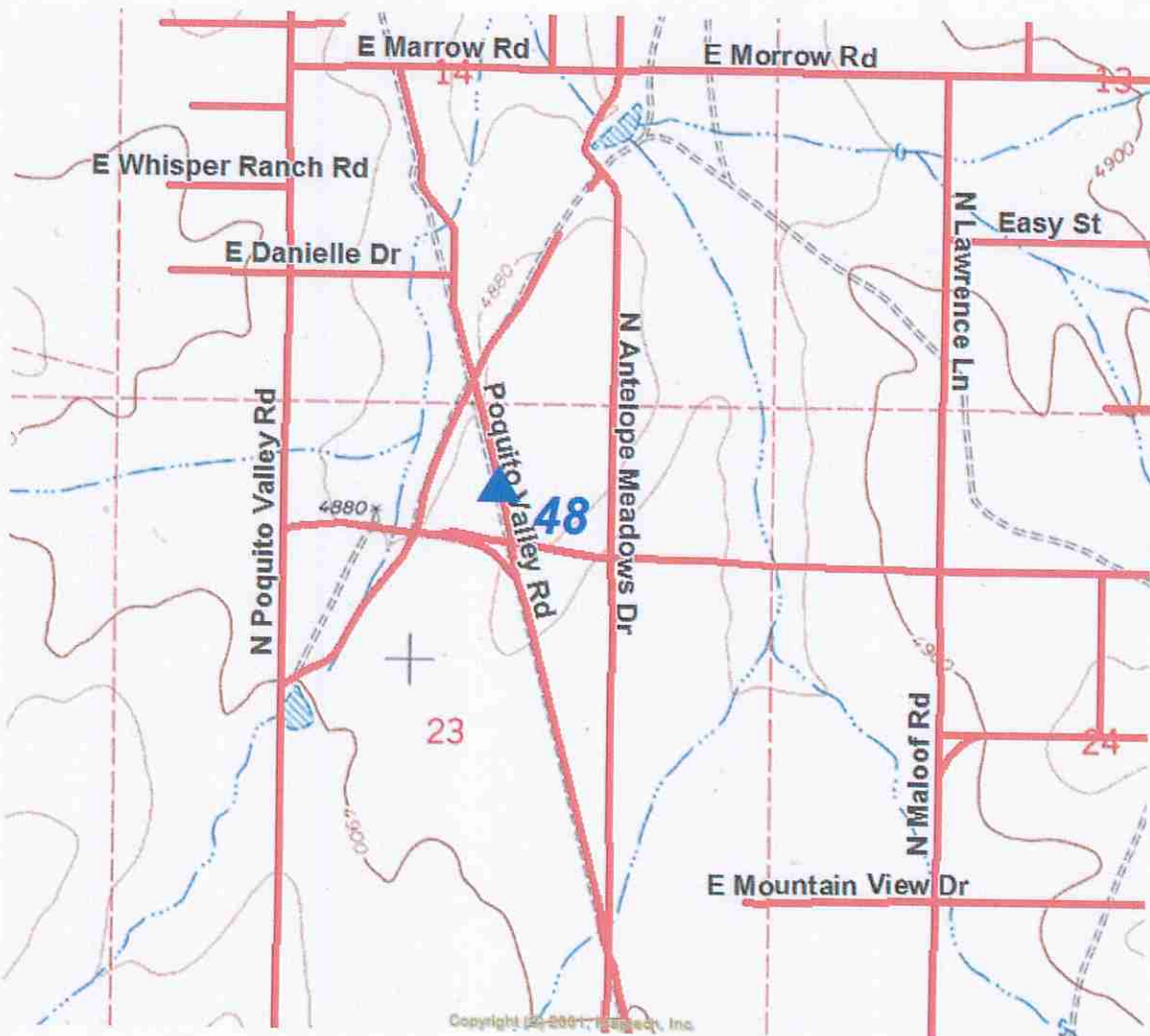
NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 48	WGS84	34°40'14.12374"N	112°19'54.18310"W	4805.190

(2007) NORTHING .IFT EASTING .IFT ELEVATION NAVD 88 **4-30-08**

RP 48	NAD83 AZ CENTRAL	1335670.250	575207.470	4890.432
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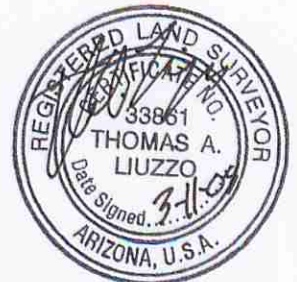
ALUMINUM POST WITH CAP 1 FT ABOVE GROUND. TAKE VIEWPOINT DR. TO PROGHORN RANCH ROAD GO NORTH 1.5 MILES FROM CLUBHOUSE TO DIRT ROAD THEN .6 MILES TO ACRE WAY THEN .2 MILES WEST TO GASLINE EASEMENT. STAMPED RP 48

DATE VISITED – JANUARY 2008





09/02/2010



RST LANDSURVEYING INC.

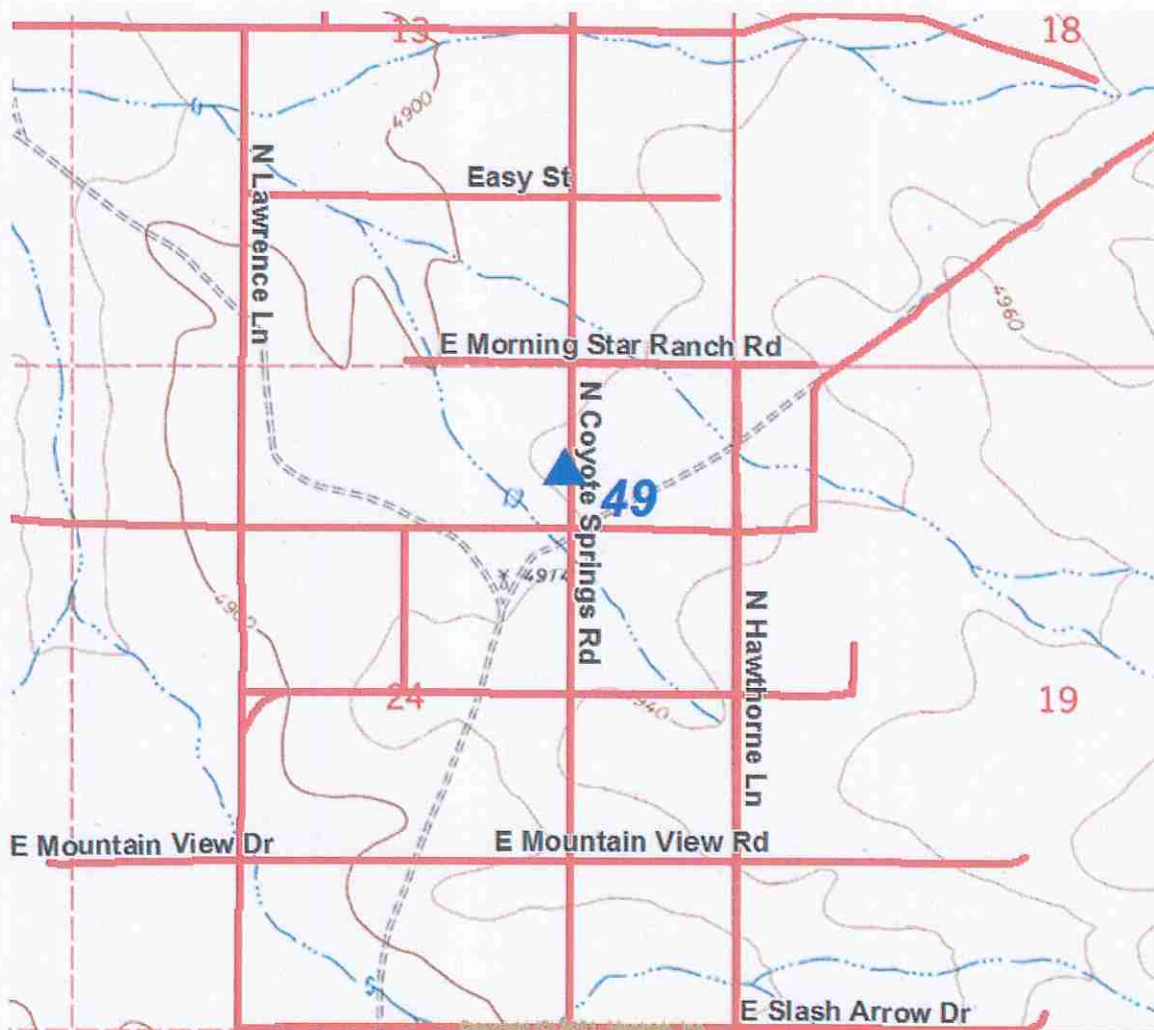
NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 49	WGS84	34°40'12.51180"N	112°18'40.76630"W	4838.252

EXP: 6-30-08

	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 49	NAD83 AZ CENTRAL	1335482.650	581338.557	4923.290

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND. TAKE COYOTE SPRINGS RD. 2 MILES NORTH RP ON WEST SIDE OF ROAD. STAMPED RP 49

DATE VISITED – JANUARY 2008





09/02/2010

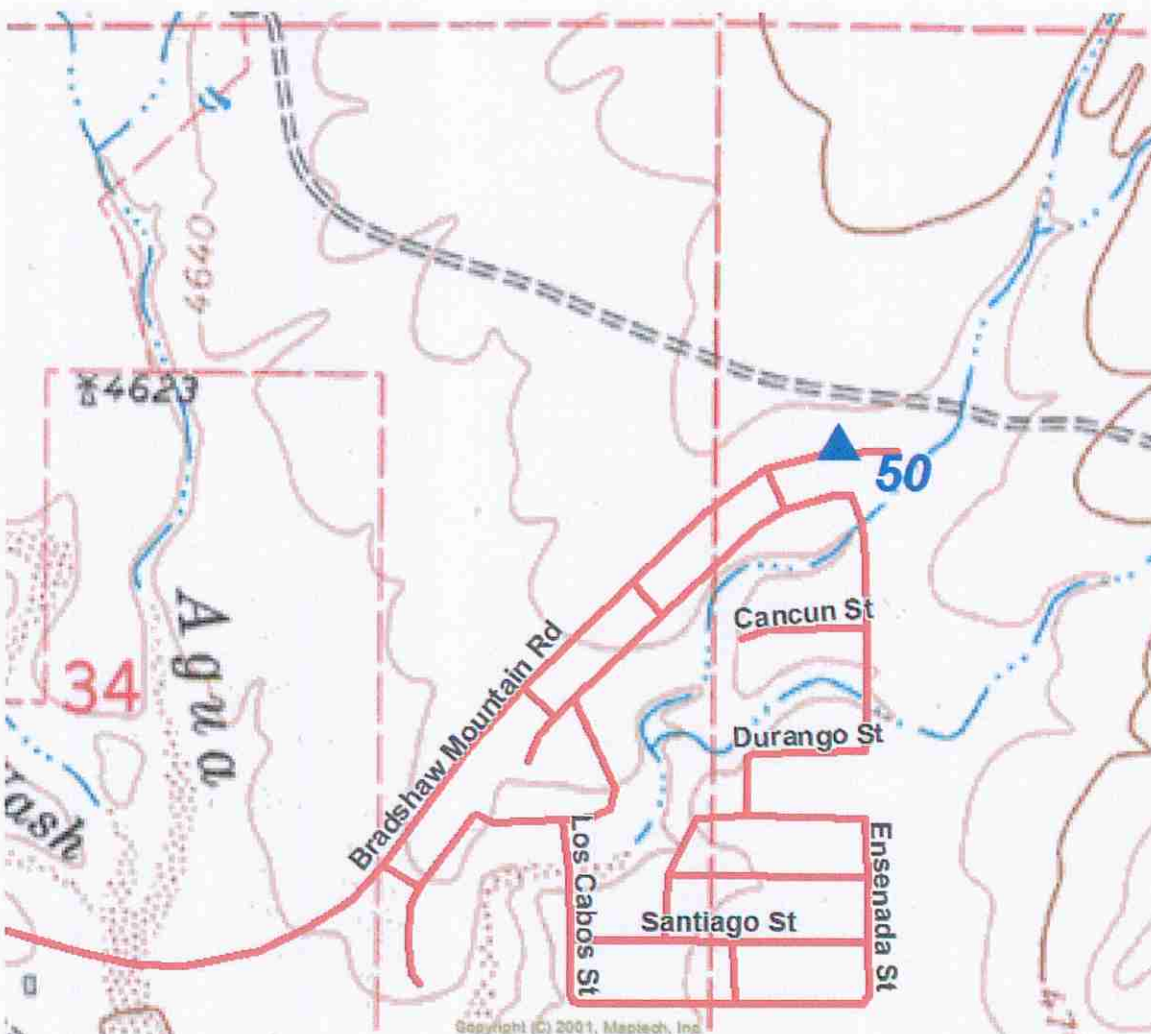
RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 50	WGS84	34°33'09.66208"N	112°14'10.86080"W	4585.482
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 50	NAD83 AZ CENTRAL	1292657.232	603745.504	4671.021

ALUMINUM POST WITH CAP 1 FT ABOVE GROUND. RP IN QUAILWOOD SUBDIVISION TAKE BRADSHAW MOUNTAIN RD TO PUMP WELL HOUSE RP ON NORTH SIDE OF ROAD . STAMPED RP 50

DATE VISITED – JANUARY 2008





09/02/2010

RST LANDSURVEYING INC.



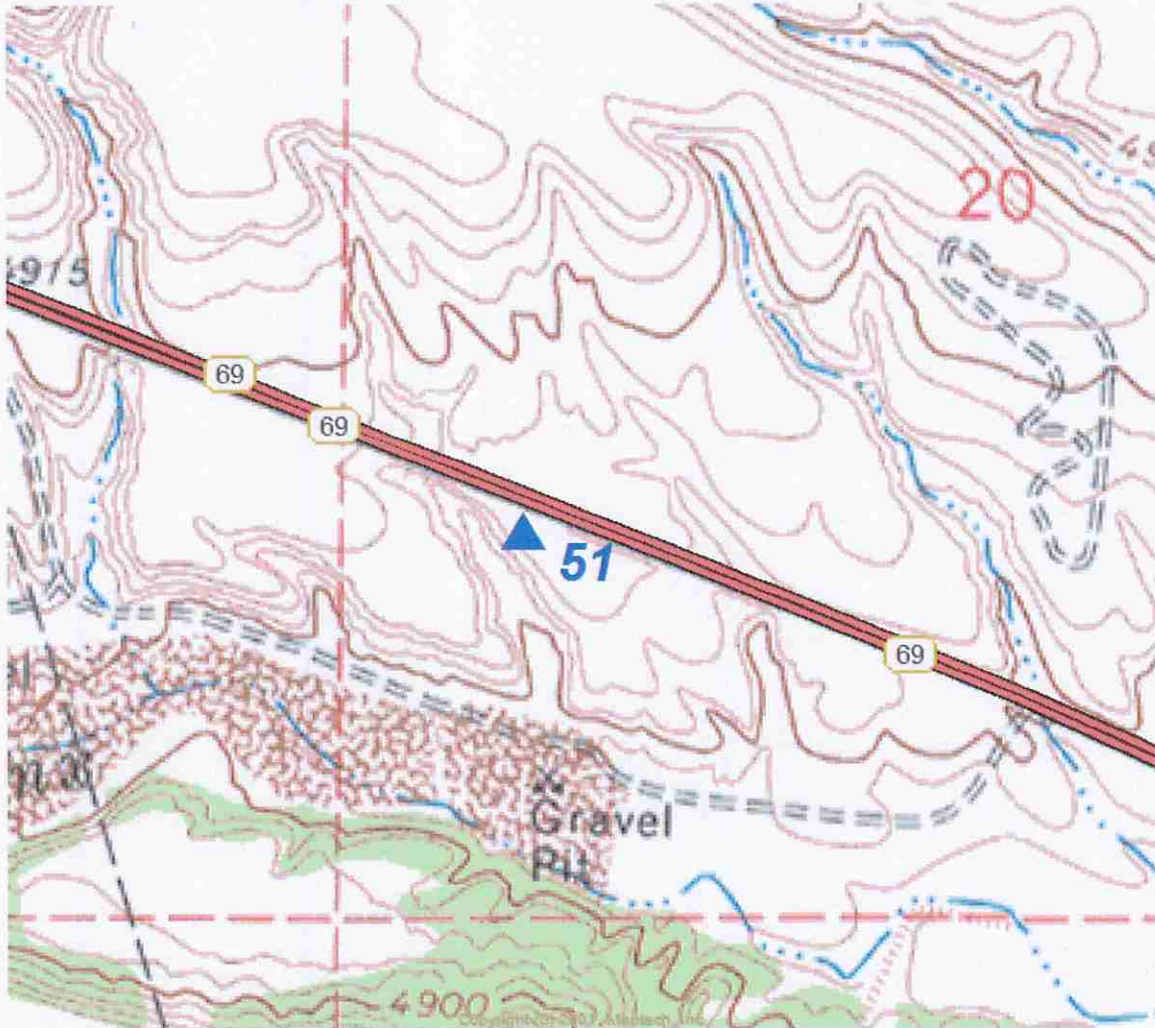
NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 51	WGS84	34°34'33.49023"N	112°17'18.12457"W	4778.451

(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
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RP 51	NAD83 AZ CENTRAL	1301184.888	588114.449	4863.994
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EXP: 6-30-08

TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 69 AND ROBERTS ROAD IN PRESCOTT VALLEY, GO EAST FOR 2.0 MI (3.2 KM) ON HIGHWAY 69 TO THE STATION ON THE RIGHT, ABOUT 125 FT (38.1 M) SOUTH OF THE CENTERLINE OF HIGHWAY 69. THE STATION IS AN ALUMINUM DISK SET IN A DRILL HOLE IN A BOULDER PROJECTING 5 CM ABOVE GROUND. LOCATED 30 FT (9.1 M) SOUTH FROM A WITNESS POST IN THE SOUTH RIGHT-OF-WAY FENCE OF HIGHWAY AND ON THE TOP OF THE EAST BANK OF A LARGE NORTH-SOUTH DRAINAGE. . STAMPED PR 23 DATE VISITED – JANUARY 2008



RST LANDSURVEYING INC.



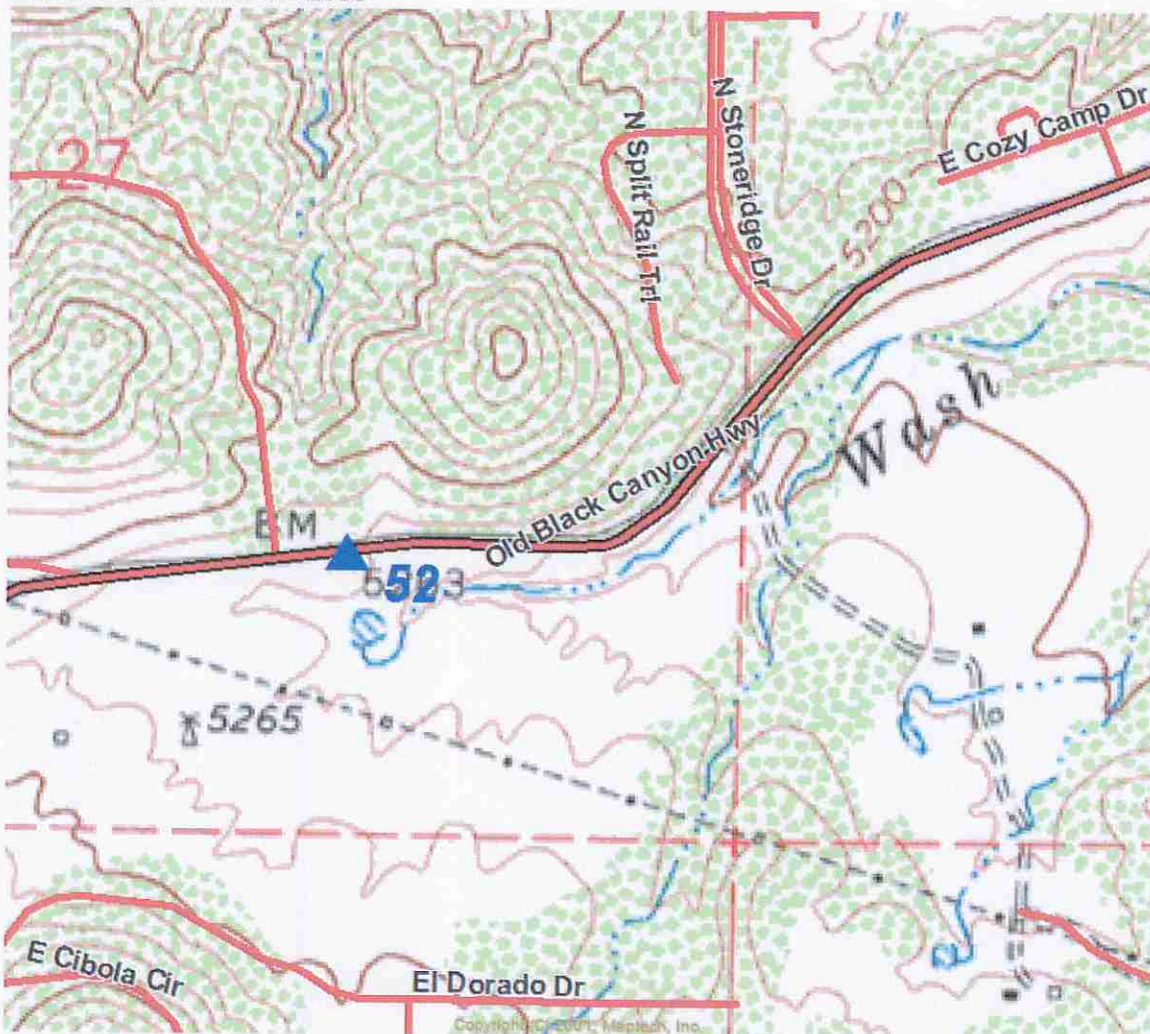
NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 52	WGS84	34°33'38.33613"N	112°20'54.66987"W	5180.069

EXP: 6-30-08

	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 52	NAD83	1295681.481	569984.334	5265.955
AZ CENTRAL				

BRASS CAP IN CONCRETE 1 FT ABOVE GROUND TAKE STONERIDGE DR. THEN GO WEST ON OLD BLACK CANYON HIGHWAY FOR 2200' +/- MONUMENT ON SOUTH SIDE OF ROAD. STAMPED A 58

DATE VISITED – JANUARY 2008



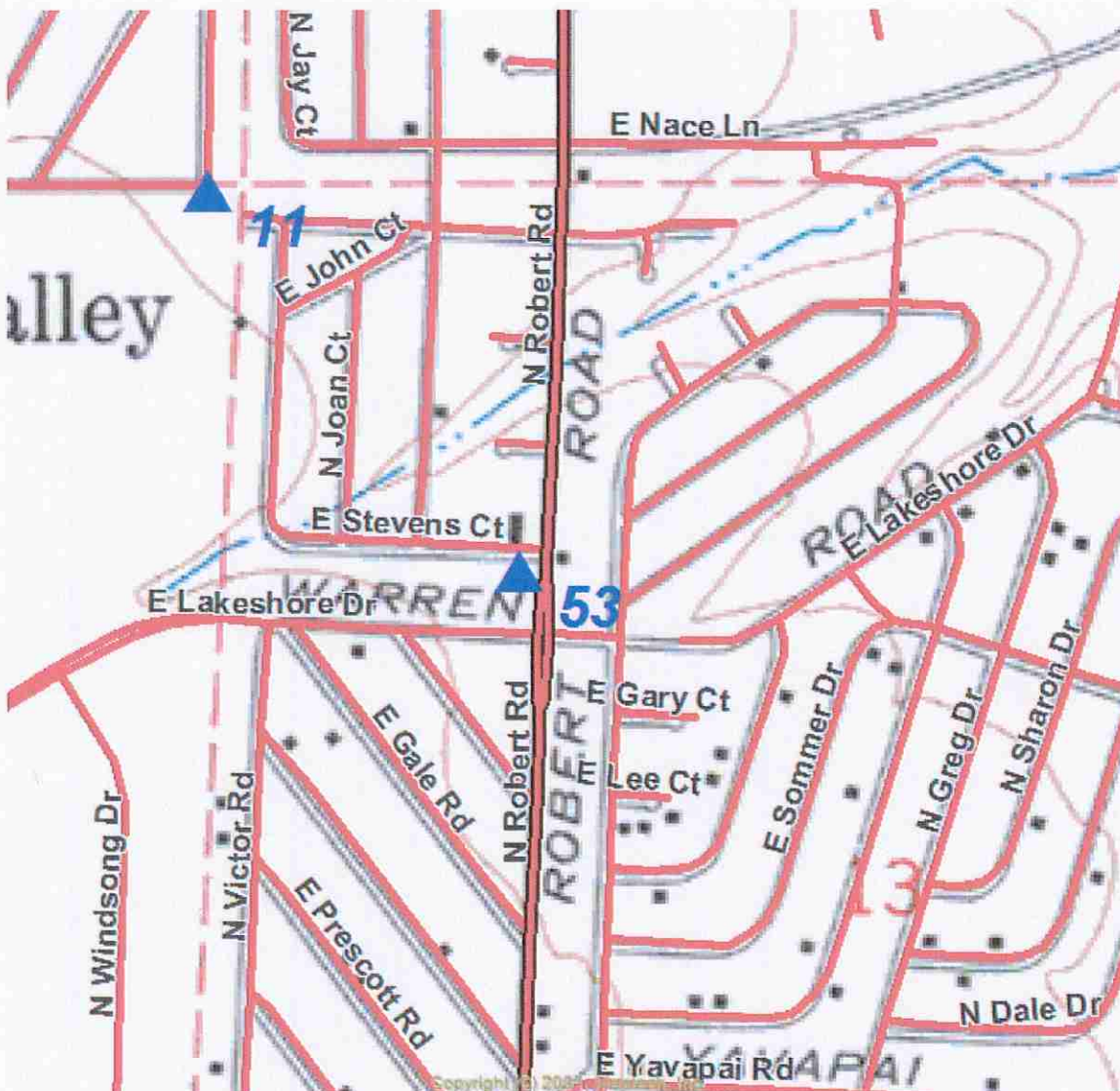
RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 53	WGS84	34°35'48.30238"N	112°19'18.32726"W	5001.559
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 53	NAD83 AZ CENTRAL	1308786.237	578094.150	5087.190

CONTINUING OPERATING BASE STATION AT THE NORTHWEST CORNER OF LAKESHORE DR. AND ROBERT RD. CALL 775-9890 FOR MORE INFORMATION. STAMPED - ABOUT TIME

DATE VISITED – JANUARY 2008



RST LANDSURVEYING INC.



NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 54	WGS84	34°38'30.73570"N	112°18'26.09540"W	4850.067

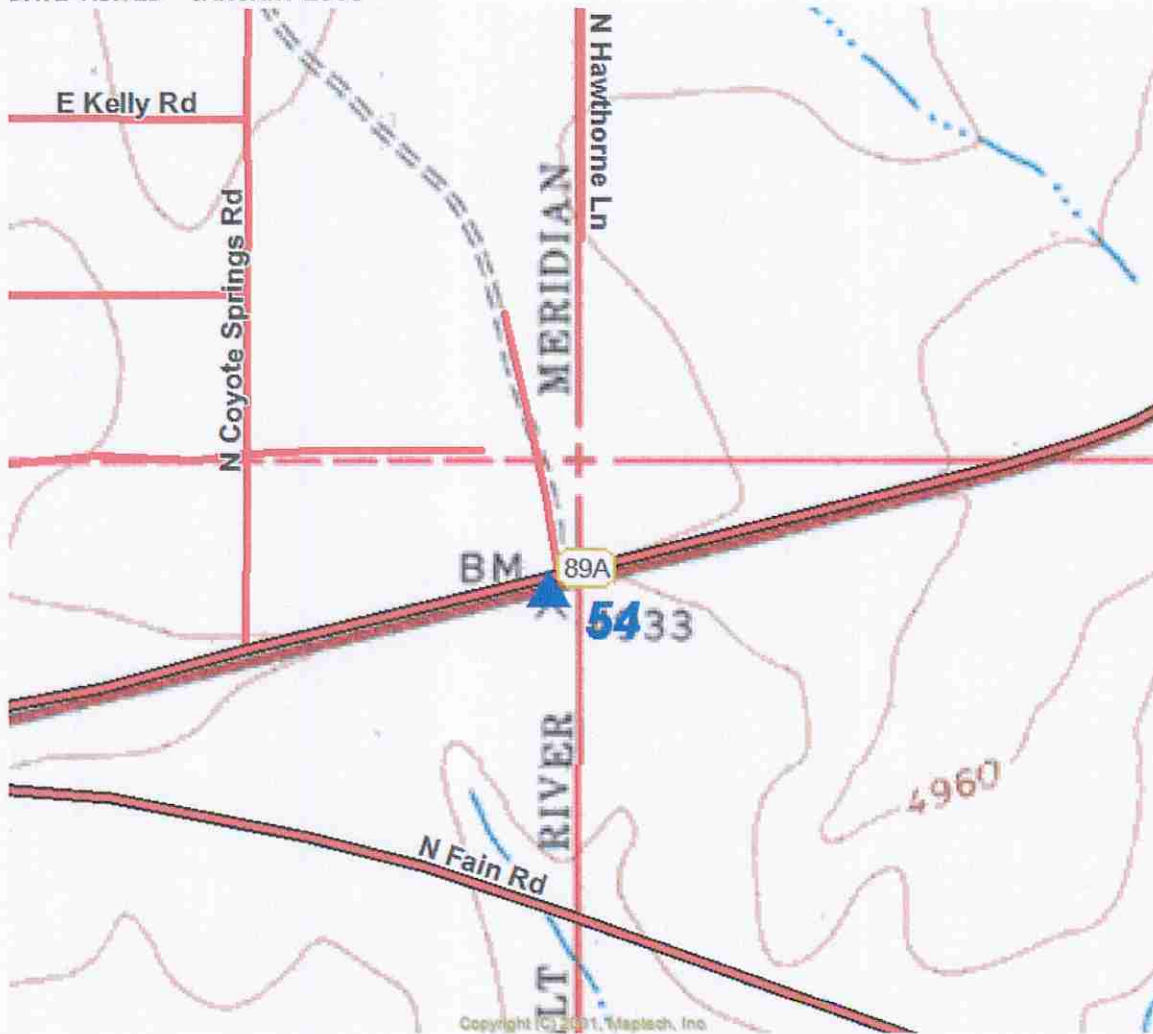
EXP: 6-30-08

	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 54	NAD83	1325189.321	582523.984	4935.300

AZ CENTRAL

BRASS CAP IN CONCRETE 1 FT ABOVE GROUND TAKE 89A PASSED COYOTE SPRINGS RD HEADING EAST 1250' +/- TO WHERE THE POWER LINE START MONUMENT ON SOUTH SIDE OF ROAD. STAMPED J 28

DATE VISITED – JANUARY 2008



RST LANDSURVEYING INC.



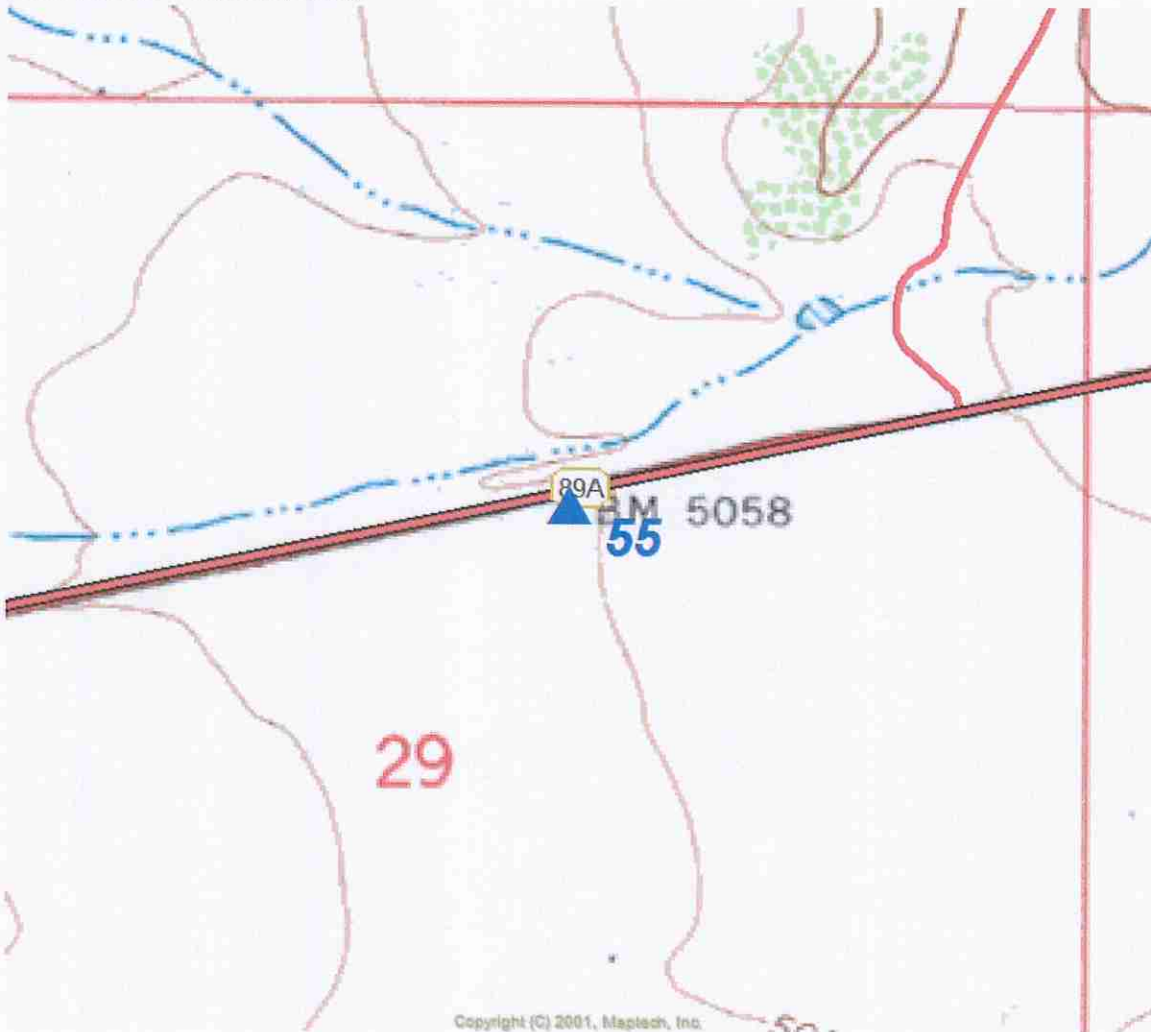
NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 55	WGS84	34°39'12.07606"N	112°16'43.86285"W	4975.731

EXP: 6-30-08

(2007)		NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 55	NAD83 AZ CENTRAL	1329336.514	591080.338	5060.500

BRASS CAP IN CONCRETE 1 FT ABOVE GROUND TAKE 89A MONUMENT ON SOUTH SIDE OF ROAD PASSED FAIRGROUNDS ENTRANCE .3 MILES. STAMPED K 28

DATE VISITED – JANUARY 2008



RST LANDSURVEYING INC.



EXP: 6-30-08

NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 56	WGS84	34°34'56.70984"N	112°18'21.10766"W	4947.835
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 56	NAD83 AZ CENTRAL	1303551.975	582857.219	5033.331

BRASS CAP IN CONCRETE 1/2 FT ABOVE GROUND TO REACH THE STATION FROM THE POST OFFICE IN PRESCOTT VALLEY PROCEED EAST FOR 0.05 MILE TO A CROSS ROAD, TURN RIGHT FOR 0.05 MILE TO SR 69. TURN LEFT AND PROCEED EAST ALONG SR 69 FOR 0.9 MILE TO THE STATION ON THE LEFT, ON TOP OF A 15 FOOT HIGHWAY CUT. STAMPED - CLIPPER

DATE VISITED – FEBRUARY 2008



RST LANDSURVEYING INC.

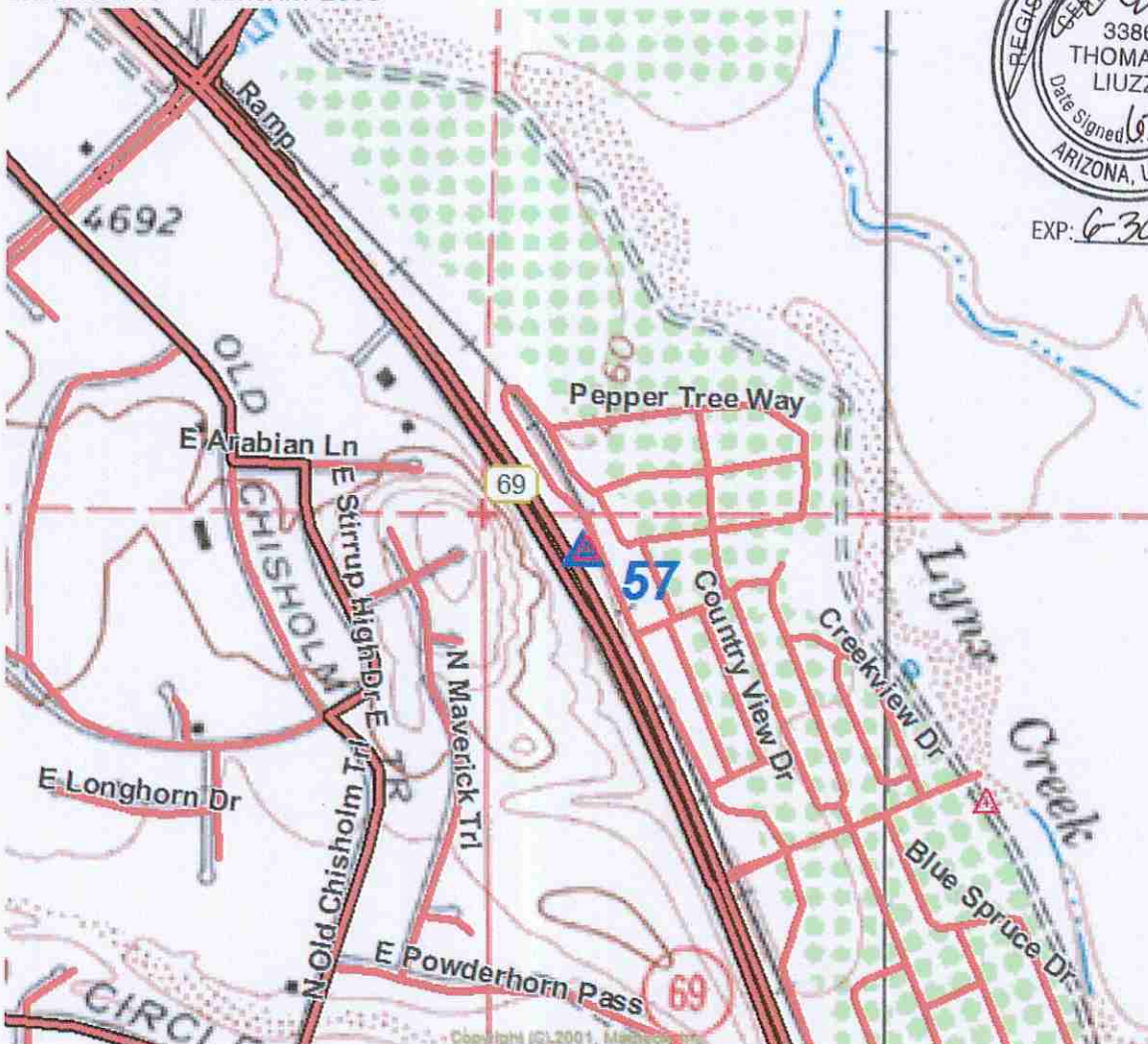
NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 57	WGS84	34°33'24.65825"N	112°15'16.39292"W	4577.079
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 57	NAD83 AZ CENTRAL	1294191.006	598269.645	4662.642

BRASS CAP IN CONCRETE 1/2 FT ABOVE GROUND TO REACH THE STATION FROM THE POST OFFICE
IN DEWEY TRAVEL NORTH ALONG ARIZONA HIGHWAY 69 FOR 2.07 MILES TO THE STATION ON THE
RIGHT. STAMPED - ESTATE

DATE VISITED – FEBRUARY 2008



EXP: 6-30-11



RST LANDSURVEYING INC.

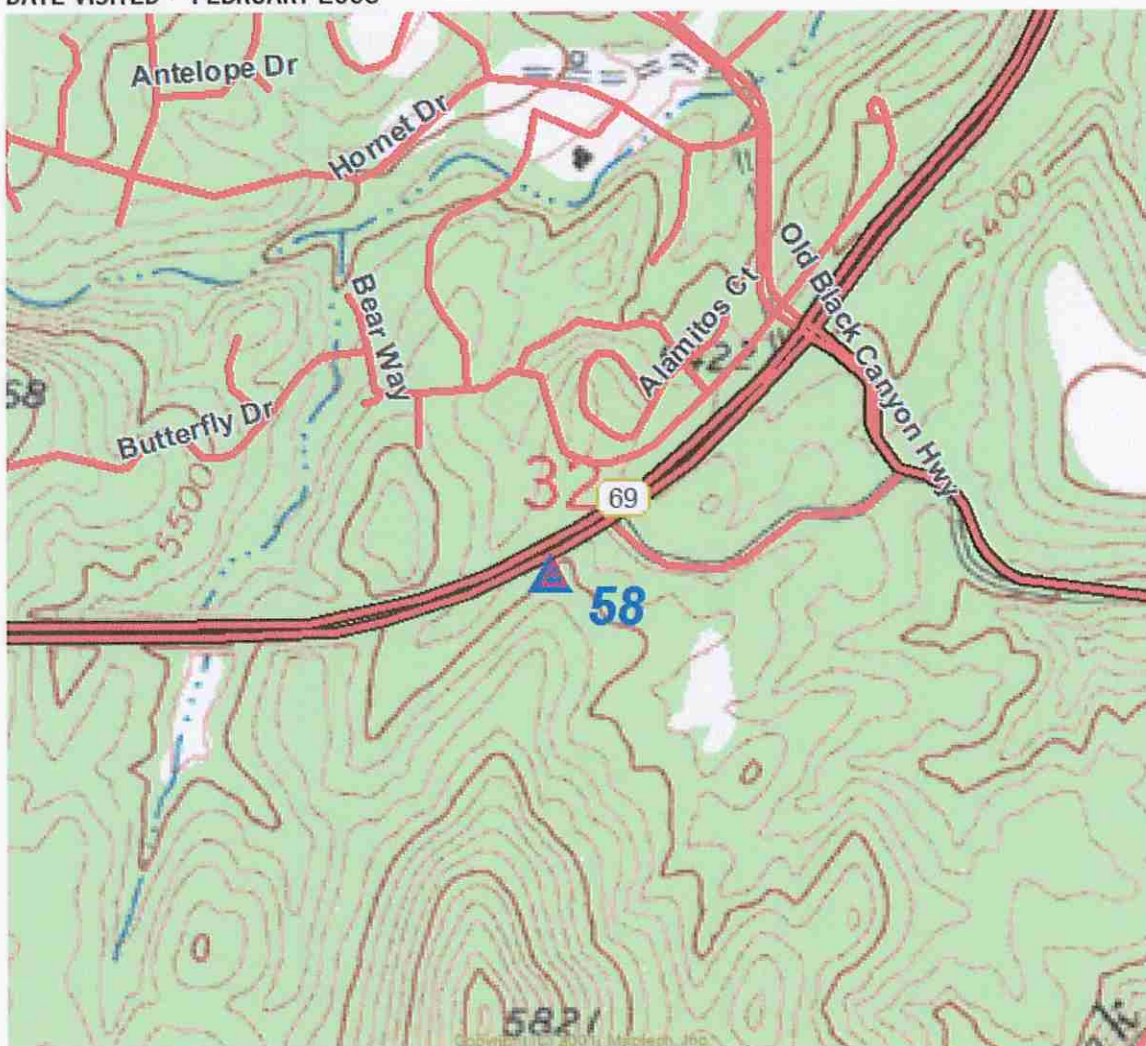


EXP: 6-30-08

NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 58	WGS84	34°32'58.77482"N	112°23'14.26734"W	5422.386
	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 58	NAD83 AZ CENTRAL	1291734.435	558291.198	5508.479

BRASS CAP IN CONCRETE FLUSH WITH GROUND 'TO REACH THE STATION FROM THE POST OFFICE IN PRESCOTT VALLEY PROCEED EAST FOR 0.05 MILE TO A CROSS ROAD. TURN RIGHT FOR 0.05 MILE TO SR 69 TURN RIGHT ALONG SR 69 FOR 5.1 MILES TO THE STATION ON THE LEFT ABOVE A 20 FOOT HIGHWAY CUT ON A CURVE IN THE HIGHWAY. STAMPED - GATES

DATE VISITED – FEBRUARY 2008



RST LANDSURVEYING INC.



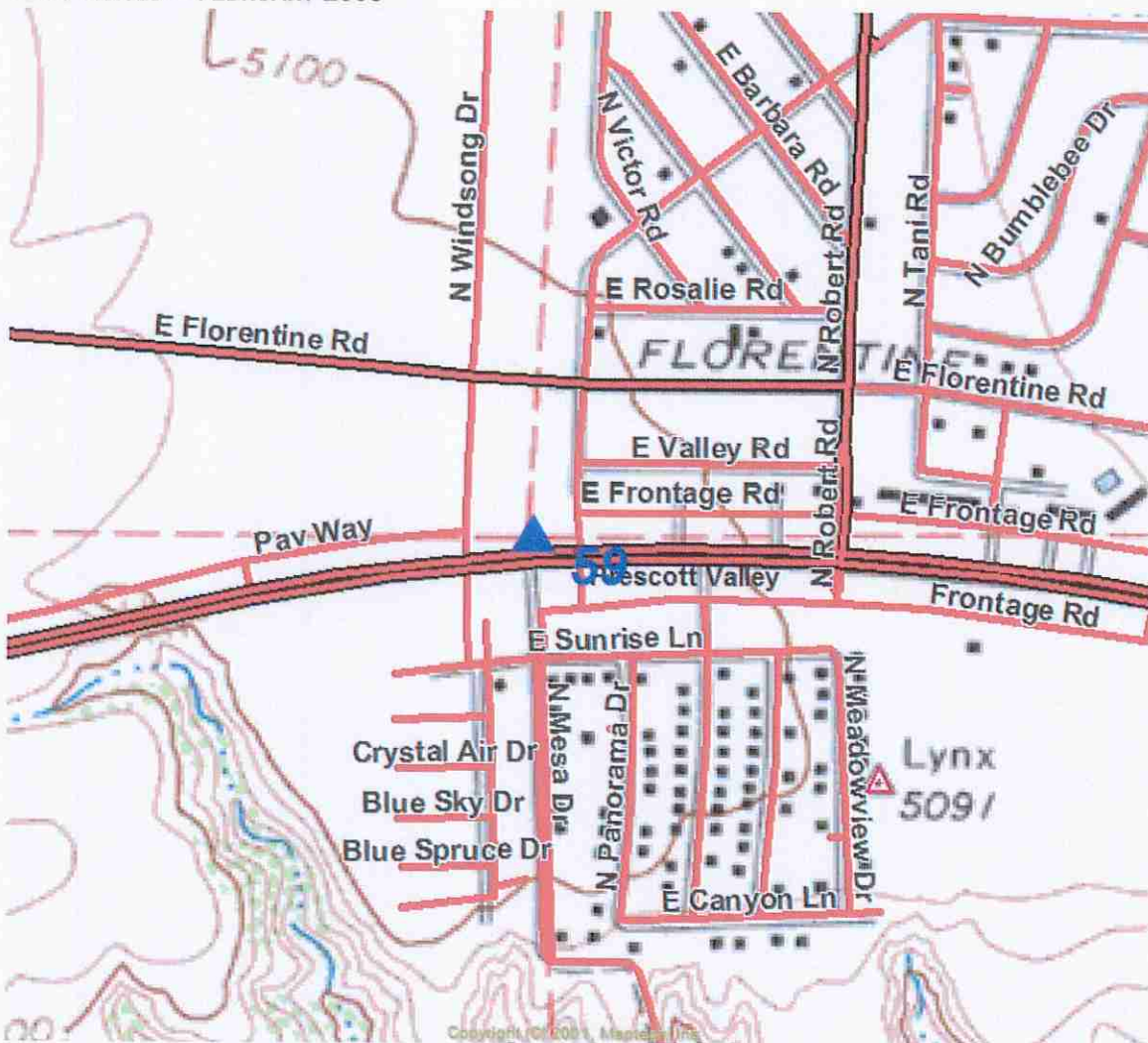
NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 59	WGS84	34°35'10.30812"N	112°19'33.34765"W	5022.349

EXP: 6-30-08

	(2007)	NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 59	NAD83 AZ CENTRAL	1304950.499	576822.969	5108.047

BRASS CAP IN HANDHOLE SET IN SIDEWALK' STAMPED - S14 S13
S23 S24

DATE VISITED - FEBRUARY 2008



RST LANDSURVEYING INC.



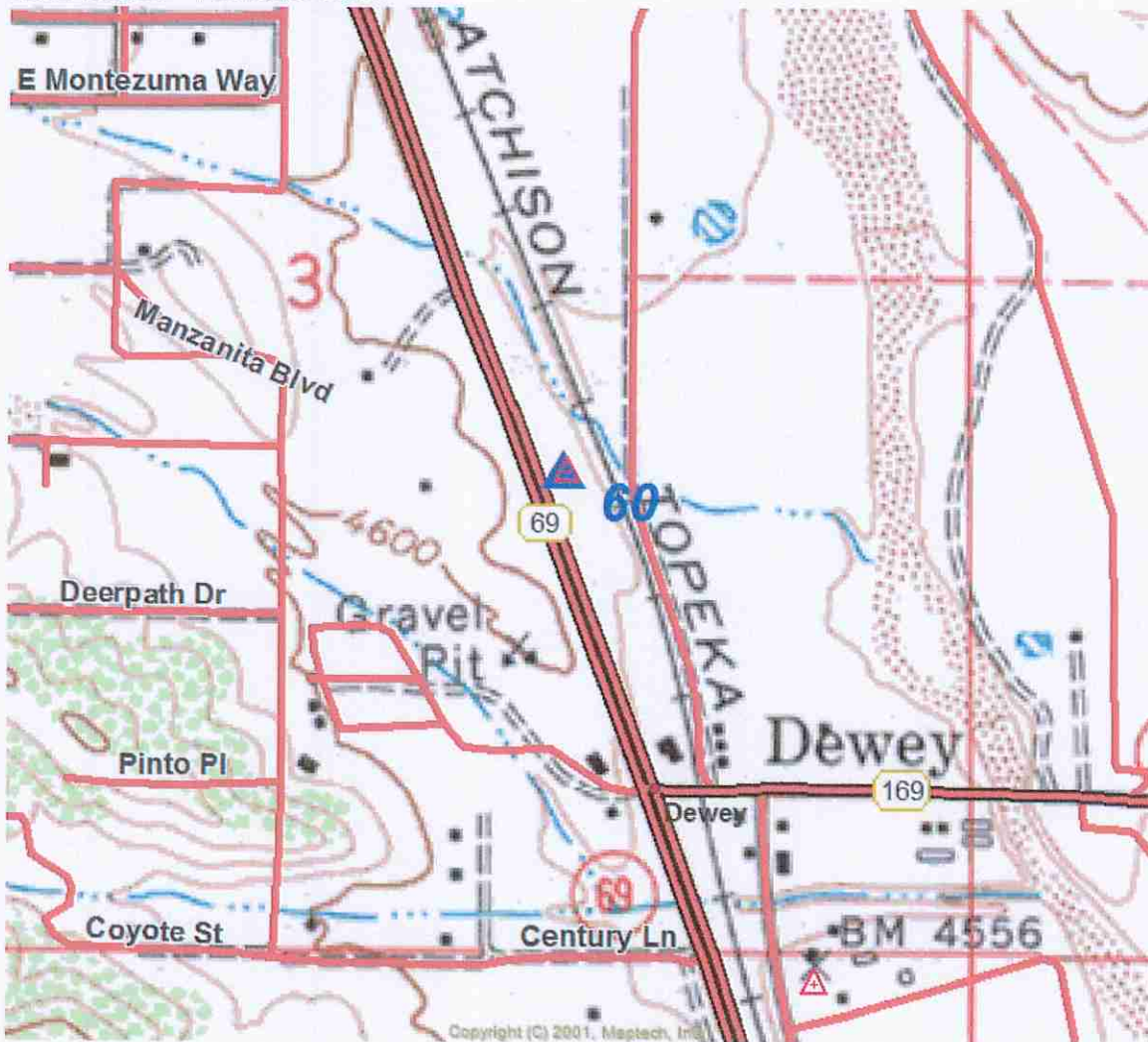
NAME	SYSTEM	LATITUDE	LONGITUDE	HEIGHT
RP 60	WGS84	34°31'59.60218"N	112°14'35.61771"W	4501.500

EXP: 6-30-08

(2007)		NORTHING .IFT	EASTING .IFT	ELEVATION NAVD 88
RP 60	NAD83 AZ CENTRAL	1285581.643	601652.015	4587.223

BRASS CAP IN CONCRETE FLUSH WITH GROUND ' TO REACH THE STATION FROM THE POST OFFICE IN DEWEY, TRAVEL NORTH ALONG ARIZONA HIGHWAY 69 FOR 0.27 MILE TO THE STATION ON THE RIGHT ON A SMALL RISE. STAMPED - TEXAS

DATE VISITED – FEBRUARY 2008



Copyright (C) 2001, Maptech, Inc.

NAME GRND. NORTH. GRND. EAST. ELEV. NAVD88
RP61 1310126.4783 591939.8187 4804.27

NAME GRID NORTH. GRID EAST. ELEV. NAVD88
RP61 1310127.5501 591935.8153 4804.27

NAME LATITUDE LONGITUDE ELEV. NAVD88
RP61 34°36'02.08932"N 112°16'32.80327"W 4804.27

NOTE: GROUND COORDINATES SHOWN ARE MODIFIED STATE PLANE COORDINATES
SCALED FROM TOWN OF PRESCOTT VALLEY RP-21. STATE PLANE COORDINATES ARE
ARIZONA CENTRAL ZONE, NAD 83. GEOGRAPHIC COORDINATES ARE NAD 83 (1986).
THE INTERNATIONAL FOOT WAS USED. FOUND 3 1/4" BRASS CAP STAMPED
"161+71.69 1014.85 LT LS 33861"



EXPIRES 6/30/2014



DAY & ASSOCIATES, INC.
310 EAST UNION STREET
PRESCOTT, ARIZONA 86303
928-778-7587

CONVERTING 2008 MAPPING
DATUM COORDINATES

FROM STATE PLANE GRID
TO
LOCAL GROUND VALUES

CONVERTING 2008 SURVEY DATUM GRID TO GROUND

TO CONVERT 2008 SURVEY DATUM GRID TO GROUND.

1. OPEN AN EMPTY DRAWING
2. INSERT DRAWING TO BE CONVERTED AS A BLOCK USING THE FOLLOWING:
 - a. INSERTION POINT: **X= 0.00 Y= 0.00 Z=0.00**
 - b. SCALE: **X= 1.00 Y= 1.00 Z= 0.999676727117**
3. USING SCALE COMMAND
 - a. SELECT ALL OBJECTS TO BE SCALED
 - b. SPECIFY BASE POINT: **R.P. 21: X= 579555.795 Y= 1313442.464 Z= 0.00**
 - c. USE SCALE FACTOR: **1.000323377422**

APPENDIX

2009 BENCHMARK
RE-SET & INSPECTION
UPDATE REPORT

**REVISED
TOWN OF PRESCOTT VALLEY
RE-SET REFERENCE POINT REPORT**

Prepared for:

The Town of Prescott Valley, Arizona

Prepared by:

DAVA and Associates, Inc.
310 East Union Street
Prescott, Arizona 86301

February 3, 2010

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1. INTRODUCTION:

The Town of Prescott Valley is unique in central Yavapai County in that it has established a survey datum for use within the Town. The current survey datum is supported by approximately fifty reference monuments set within the Town of Prescott Valley town limits and ten NGS monuments within or near the town limits. These reference points are published by the Town of Prescott Valley and available for use for all survey needs within the town limits. Maintaining the density and accuracy of reference points that define the survey datum is essential to facilitate the design and construction of capital improvement projects and private development.

1. The original system established in 1991 established twenty five reference monuments and was based horizontally on NAD 83 using the U.S. Survey Foot, and vertically on NGVD 29 and provided a horizontal and vertical survey datum that was a modified State Plane coordinate system. The elevations of the original twenty-five reference points were established using differential levels. The survey control system was expanded in 2003 and 2008 bringing the total number of reference points to fifty. The 2003 survey datum was based horizontally on NAD 83 using the International Survey Foot, and vertically on NGVD 29. The 2008 survey datum was based horizontally on NAD 83 using the International Survey Foot, and vertically on NAVD 88.
2. The result of changing from the U.S. Survey Foot to the International Survey Foot in 2003 created a shift in the horizontal coordinate values of approximately 2.8 feet.
3. The result of changing from NGVD 29 to NAVD 88 in 2008 created a shift in the elevation values of +2.77 feet. The elevation shift of +2.77 feet was calculated using Corpscon for Windows, version 5.11.08 conversion software at RP-21. The shift of +2.77 feet from NGVD 29 TO NGVD 88 at RP-21 was held as the global shift as RP-21 is the translation point for the Town of Prescott Valley survey datum. The Corpscon software will yield a different shift from NGVD 29 to NAVD 88 depending upon the geographical location of the point within the reference point network.

Maintenance of the Town of Prescott Valley survey reference point system falls under the services Dava and Associates, Inc. provides as the Town Engineer. An inspection and inventory of the survey reference point during July 2009 revealed nine of the reference points where destroyed. Reference point RP-01 had been disturbed but at this time is stable. We have determined and listed a revised horizontal and vertical position for RP-01. **RP-38 has been abandoned.**

2. PROCEDURES AND RESULTS:

Re-establishing the destroyed reference points required several steps.

1. The first step was to determine a reasonably stable area to reset the missing reference point and set the replacement monument. The replacement monuments used were 3 ¼" aluminum caps on 18" solid aluminum shafts.
2. Once the replacement monuments were set the horizontal position of the monument was determined. This was accomplished using GPS survey equipment and measuring vectors to the replacement monuments from several of the remaining reference points to maintain the continuity of the survey reference point network. Using the multiple measured vectors we were able to fix the horizontal location of the replacement monument. As part of the process of measuring the vectors GPS elevation values were established on each of the replacement monuments.
3. The GPS elevation values fell short of the desired vertical accuracy so differential levels were ran between the existing reference points, original NGS bench marks relied on in 1991, and the replacement monuments. Analysis of the differential level data revealed that there were discrepancies between the published elevations of four of the existing reference points and the differential level data. The discrepancies were found in the existing reference monuments located in the south central and southwest area of the Town and the central and north central area of the Town. As a result the differential levels needed to isolate and resolve these discrepancies were greatly expanded. A total of twenty six miles of differential levels were completed to tie together the areas containing discrepancies.
4. The differential level data was processed and run through a least squares program. The least squares program is used to eliminate blunders or gross errors from the field data, compute the best fit adjustment for all survey observations simultaneously, and to evaluate the accuracies of the adjusted elevations.
5. The resulting horizontal positions and elevation values for the replacement monuments fell within acceptable limits and eliminated the discrepancies discovered in the initial differential levels. Ten of the existing reference points were used in the adjustment of the replacement monuments. Elevations of four of the ten existing reference points were adjusted in the least squares adjustment. The four existing reference monuments adjusted are RP-04, RP-05, RP-12, and RP-40. The elevation adjustment of the existing reference monuments ranged from -0.13' for RP-40 to +0.10' on RP-05.

3. CONCLUSIONS:

1. The horizontal positions of the reference points and subsequent field measurements yield accurate results.
2. The elevations of the reset reference monuments and the adjusted elevations of the existing reference monuments included in the differential levels fall within third order accuracy parameters.
3. The discrepancies found in the elevations are more than likely the result that the original adjustment was performed without the benefit of a least squares network adjustment. In 1991, the original twenty-five reference point elevations were determined by the use of differential levels using weighted values based on the length of the level run from multiple existing ADOT and NGS monuments.
4. Converting the 2008 state plane coordinate values listed in the, Town of Prescott Valley Official Survey Benchmark & Reference Point Information Guide; 2008 Datum Update; NAD 83 / NAVD 88 Datum's, from grid to ground do not yield the same ground values as the 2003 datum. The shift is an average of North 24°49' West, 0.27 feet.

4. CERTIFICATION:

I, Thomas G. Callahan, hereby certify that I am a Registered Land Surveyor in the State of Arizona, and that the field surveys, analysis and this report were prepared under my direction.



Thomas G. Callahan

EXPIRES 6/30/2011

**TOWN OF PRESCOTT VALLEY
RE-SET REFERENCE POINTS**

NAME	GROUND NORTHING	GROUND EASTING	NAVD 88 ELEV	S.P. GRID NORTHING	S.P. GRID EASTING
RP01-ADJ	1322330.943000	572086.584500	5024.17	1322328.069459	572088.999150
RP02-RS	1323794.984000	577254.221000	4974.89	1323791.637174	577254.965093
RP07-RS	1315353.220800	582496.100500	4981.21	1315352.602967	582495.150036
RP14-RS	1305182.538000	566342.943000	5225.23	1305185.208073	566347.214414
RP15-RS	1304900.395000	571817.570000	5166.39	1304903.156283	571820.071615
RP17-RS	1304898.331800	582128.873500	5040.32	1304901.093750	582128.041750
RP19-RS	1317281.239700	580040.617700	4981.55	1317279.998591	580040.461027
RP25-RS	1307680.790000	579583.459800	5062.40	1307682.652456	579583.450914
RP32-RS	1305192.652000	592354.716500	4798.93	1305195.318804	592350.579013
RP38	ABANDONED.				
RP39-RS	1303104.198500	565726.603500	5284.01	1303107.540444	565731.074160

**TOWN OF PRESCOTT VALLEY
ADJUSTED REFERENCE POINT ELEVATIONS**

NAME	GROUND NORTHING	GROUND EASTING	ADJUSTED NAVD 88 ELEV	S.P. GRID NORTHING	S.P. GRID EASTING	ELEV. CHANGE
RP-04	1320548.990477	577190.938572	4921.77	1320546.692993	577191.703123	-0.04
RP-05	1320444.957846	582625.119665	4887.37	1320442.693993	582624.127492	0.10
RP-12	1309837.961908	582276.043441	5018.75	1309839.127009	582275.164115	0.07
RP-40	1308048.012269	574415.756435	5111.70	1308049.756012	574417.418127	-0.13

LEAST SQUARES DIFFERENTIAL LEVELS ADJUSTMENT AND SUMMARY

NOTE: ELEVATIONS USED IN THIS ADJUSTMENT ARE NGVD 29 AND CONVERTED AFTER ADJUSTMENT TO
NAVD 88 CORRECTION FROM NGVD 29 TO NAVD 88 = +2.77 FEET

STAR*LEV Adjustment Program
Copyright 1990 STARPLUS SOFTWARE, INC.
Licensed for Use by Dava & Associates
Serial Number 20222

STAR*LEV Version 1.24
Run Date : Wed Aug 12 12:22:41 2009

Summary of Files Used

Input Data File	: rp-final.dat
Output Listing (This File)	: rp-final.lst
Adjusted Elevations	: rp-final.pts
Project Options	: rp-final.prj
Error Log	: rp-final.err

Summary of Options Used

Type of Run was Adjustment and Error Propagation

Print Input Data File	: No
Print Summary of All Input Observations	: Yes
Default Standard Error for Elevations	: FIXED
Section Length Units	: Turns
Default Std Error for Diff in Elevations	: 0.007170 Ft-Meters/Turns

Network has 9 fixed elevation stations

Summary of All Unadjusted Input Observations

=====

Number of Stations with Elevations = 26

Station	Elevation	Std Error	Description
RP4	4919.04000	*	
RP5	4884.50000	*	
RP9	5169.45000	FIXED	
RP23	5160.57000	FIXED	
RP16	5105.10000	FIXED	
RP12	5015.91000	*	
RP21	5015.71000	FIXED	
RP18	4973.32000	FIXED	
PR18	4951.93000	FIXED	
P26BC	4909.14000	*	
RP24	5118.82000	FIXED	
RP40	5109.06000	*	
CLIPPER	5030.60000	FIXED	
PR9	5219.32000	FIXED	
J28	4932.51000	0.02000	
RP2RS	4972.18000	*	
GPDELITE	4906.54000	*	
RP14RS	5222.50000	*	
RP39RS	5281.29000	*	
RP15RS	5163.72000	*	
RP17RS	5037.52000	*	
RP25RS	5059.62000	*	
RP32RS	4796.17000	*	
RP7RS	4978.44000	*	
RP19RS	4978.77000	*	
GPWIND	5094.47000	*	

Number of Differences in Elevation = 30

At	To	Elev Diff	Length Turns	StdErr
RP4	RP2RS	53.14000	12	0.02484
RP2RS	GPDELITE	-65.64000	11	0.02378
GPDELITE	RP5	-21.82000	13	0.02585
RP9	RP14RS	53.05000	15	0.02777
RP14RS	RP39RS	58.79000	7	0.01897
RP39RS	RP15RS	-117.57000	18	0.03042
RP15RS	RP23	-3.07000	11	0.02378
RP16	RP17RS	-67.58000	16	0.02868
RP17RS	RP25RS	22.10000	11	0.02378
RP25RS	RP12	-43.63000	9	0.02151
RP18	RP32RS	-177.15000	16	0.02868
RP32RS	RP18	177.17000	20	0.03207
RP4	RP2RS	53.14000	9	0.02151
RP2RS	RP5	-87.49000	18	0.03042
RP5	RP4	34.41000	12	0.02484
RP21	RP7RS	-37.27000	9	0.02151
RP7RS	RP19RS	0.33000	13	0.02585
RP19RS	RP5	-94.18000	16	0.02868
PR18	RP4	-32.91000	4	0.01434
RP4	PR18	32.93000	5	0.01603
RP5	P26BC	24.64000	7	0.01897
RP23	RP24	-41.73000	15	0.02777
RP24	RP40	-9.89000	3	0.01242
RP40	GPWIND	-14.59000	4	0.01434
GPWIND	RP25RS	-34.69000	15	0.02777
J28	P26BC	-23.34000	7	0.01897
CLIPPER	RP17RS	6.96000	5	0.01603
RP21	RP12	0.23000	17	0.02956
PR9	RP15RS	-55.71000	9	0.02151
RP15RS	RP16	-58.50000	12	0.02484

Adjustment Results

=====

Updated Elevations and Changes from Initial Estimates

Station	Elevation	Change	Description
RP4	4919.00321	-0.03679	
RP5	4884.60109	0.10109	
RP9	5169.45000	-0.00000	
RP23	5160.57000	-0.00000	
RP16	5105.10000	0.00000	
RP12	5015.97916	0.06916	
RP21	5015.71000	0.00000	
RP18	4973.32000	0.00000	
PR18	4951.93000	-0.00000	
P26BC	4909.21824	0.07824	
RP24	5118.82000	0.00000	
RP40	5108.92726	-0.13274	
CLIPPER	5030.60000	-0.00000	
PR9	5219.32000	0.00000	
J28	4932.53539	0.02539	
RP2RS	4972.12155	-0.05845	
GPDELITE	4906.45384	-0.08616	
RP14RS	5222.46436	-0.03564	
RP39RS	5281.23773	-0.05227	
RP15RS	5163.62496	-0.09504	
RP17RS	5037.54518	0.02518	
RP25RS	5059.62989	0.00989	
RP32RS	4796.16111	-0.00889	
RP7RS	4978.44263	0.00263	
RP19RS	4978.77642	0.00642	
GPWIND	5094.33360	-0.13640	

Statistical Summary
=====

Number of Observations = 30
Number of Unknowns = 17
Degrees of Freedom = 13

Data Type	Count	Weighted Residuals	Error Factor
Stations	26	0.00	0.00
Diff Elev	30	22.32	1.31
Total	56	22.32	1.31

Adjustment passes the Chi Square test at 5% level

Adjusted Elevation Difference Observations and Residuals

=====

At	To	Adjusted Obs	Residual	StdErr	StdRes
RP4	RP2RS	53.11834	-0.02166	0.02484	0.9
RP2RS	GPDELITE	-65.66771	-0.02771	0.02378	1.2
GPDELITE	RP5	-21.85275	-0.03275	0.02585	1.3
RP9	RP14RS	53.01436	-0.03564	0.02777	1.3
RP14RS	RP39RS	58.77337	-0.01663	0.01897	0.9
RP39RS	RP15RS	-117.61277	-0.04277	0.03042	1.4
RP15RS	RP23	-3.05496	0.01504	0.02378	0.6
RP16	RP17RS	-67.55482	0.02518	0.02868	0.9
RP17RS	RP25RS	22.08471	-0.01529	0.02378	0.6
RP25RS	RP12	-43.65073	-0.02073	0.02151	1.0
RP18	RP32RS	-177.15889	-0.00889	0.02868	0.3
RP32RS	RP18	177.15889	-0.01111	0.03207	0.3
RP4	RP2RS	53.11834	-0.02166	0.02151	1.0
RP2RS	RP5	-87.52046	-0.03046	0.03042	1.0
RP5	RP4	34.40212	-0.00788	0.02484	0.3
RP21	RP7RS	-37.26737	0.00263	0.02151	0.1
RP7RS	RP19RS	0.33379	0.00379	0.02585	0.1
RP19RS	RP5	-94.17533	0.00467	0.02868	0.2
PR18	RP4	-32.92679	-0.01679	0.01434	1.2
RP4	PR18	32.92679	-0.00321	0.01603	0.2
RP5	P26BC	24.61715	-0.02285	0.01897	1.2
RP23	RP24	-41.75000	-0.02000	0.02777	0.7
RP24	RP40	-9.89274	-0.00274	0.01242	0.2
RP40	GPWIND	-14.59366	-0.00366	0.01434	0.3
GPWIND	RP25RS	-34.70371	-0.01371	0.02777	0.5
J28	P26BC	-23.31715	0.02285	0.01897	1.2
CLIPPER	RP17RS	6.94518	-0.01482	0.01603	0.9
RP21	RP12	0.26916	0.03916	0.02956	1.3
PR9	RP15RS	-55.69504	0.01496	0.02151	0.7
RP15RS	RP16	-58.52496	-0.02496	0.02484	1.0

Error Propagation

=====

Station Elevation Standard Deviations

Station	Elevation	StdDev	Description
RP4	4919.00321	0.01330	
RP5	4884.60109	0.02192	
RP9	5169.45000	0.00000	
RP23	5160.57000	0.00000	
RP16	5105.10000	0.00000	
RP12	5015.97916	0.02772	
RP21	5015.71000	0.00000	
RP18	4973.32000	0.00000	
PR18	4951.93000	0.00000	
P26BC	4909.21824	0.02531	
RP24	5118.82000	0.00000	
RP40	5108.92726	0.01548	
CLIPPER	5030.60000	0.00000	
PR9	5219.32000	0.00000	
J28	4932.53539	0.02242	
RP2RS	4972.12155	0.02208	
GPDELITE	4906.45384	0.02981	
RP14RS	5222.46436	0.02945	
RP39RS	5281.23773	0.03098	
RP15RS	5163.62496	0.01686	
RP17RS	5037.54518	0.01698	
RP25RS	5059.62989	0.02414	
RP32RS	4796.16111	0.02801	
RP7RS	4978.44263	0.02516	
RP19RS	4978.77642	0.03128	
GPWIND	5094.33360	0.02191	

Elapsed time = 00:00:01

LEAST SQUARES ADJUSTMENT INPUT FILE

374PVENG DIFF LEVELS TO T.O.P.V. RESET REFERENCE MONUMENTS
FIELD CREW: VARIOUS
DATA INPUT TIM SOBER\BOB KINSEY

INPUT OF RECORD VERTICAL CONTROL

E RP4 4919.04 *
E RP5 4884.50 *
~~#E GPDELITE 4906.46 0.05~~ NOT USED.
E RP9 5169.45 !
E RP23 5160.57 !
E RP16 5105.10 !
E RP12 5015.91 *
~~#E RP6 5018.01~~ ! NOT USED.
E RP21 5015.71 !
E RP18 4973.32 !
E PR18 4951.93 !
E P26BC 4909.14 *
E RP24 5118.82 !
E RP40 5109.06 *
~~#E GPWIND 5094.36~~ ! NOT USED.
~~#E PR19 4991.51~~ ! NOT USED.
E CLIPPER 5030.60 !
E PR9 5219.32 !
E J28 4932.51 0.02

BEGIN INPUT OF FIELD DATA LOOP 1
FIELD CREW: K. STIMPLE, S. KINSEY 07-09-09
V RP4-RP2RS 53.14 12
V RP2RS-GPDELITE -65.64 11
V GPDELITE-RP5 -21.82 13

BEGIN LOOP 2
FIELD CREW: K. STIMPLE, S. KINSEY 07-09-09
V RP9-RP14RS 53.05 15
V RP14RS-RP39RS 58.79 7
V RP39RS-RP15RS -117.57 18
V RP15RS-RP23 -3.07 11

BEGIN LOOP 3
FIELD CREW: K. STIMPLE, S. KINSEY 07-20-09
V RP16-RP17RS -67.58 16
V RP17RS-RP25RS 22.10 11
V RP25RS-RP12 -43.63 9

BEGIN LOOP 4
FIELD CREW: S. KINSEY, G. PETERSON 07-21-09
#V RP6-RP19RS -39.15 10
#V RP19RS-RP7RS -0.21 14
#V RP7RS-RP21 37.34 9

```
# BEGIN LOOP 5
# FIELD CREW: S. KINSEY, G. PETERSON 07-22-09
V RP18-RP32RS -177.15 16
V RP32RS-RP18 177.17 20

# BEGIN LOOP 6
# FIELD CREW: T. SOBER, S. KINSEY 07-23-09
V RP4-RP2RS 53.14 9
V RP2RS-RP5 -87.49 18
V RP5-RP4 34.41 12

# BEGIN LOOP 7
# FIELD CREW: K. STIMPLE, S. KINSEY 07-30-09
V RP21-RP7RS -37.27 9
V RP7RS-RP19RS 0.33 13
V RP19RS-RP5 -94.18 16

# BEGIN LOOP 8
# FIELD CREW: K. STIMPLE, S. KINSEY 08-03-09
V PR18-RP4 -32.91 4
V RP4-PR18 32.93 5

# BEGIN LOOP 9
# FIELD CREW: K. STIMPLE, S. KINSEY 08-04-09
V RP5-P26BC 24.64 7

# BEGIN LOOP 10
# FIELD CREW: K. STIMPLE, S. KINSEY 08-05-09
V RP23-RP24 -41.73 15
V RP24-RP40 -9.89 3
V RP40-GPWIND -14.59 4
V GPWIND-RP25RS -34.69 15

# BEGIN LOOP 11
# FIELD CREW: K. STIMPLE, S. KINSEY 08-05-09
V J28-P26BC -23.34 7

#V PR18-PR19 39.66 12

# BEGIN LOOP 12
# FIELD CREW: K. STIMPLE, S. KINSEY 08-10-09
V CLIPPER-RP17RS 6.96 5

#V GPWAFFLE-RP15RS -14.61 3

# BEGIN LOOP 13
# FIELD CREW: K. STIMPLE, S. KINSEY 08-10-09
V RP21-RP12 0.23 17

# BEGIN LOOP FROM 491SR69W
#V GPWAFFLE-WPSAFE -60.84 9
#V WPSAFE-RP16 -12.24 3
```

BEGIN LOOP 14
FIELD CREW: K. STIMPLE, S. KINSEY 08-11-09
V PR9-RP15RS -55.71 9
V RP15RS-RP16 -58.50 12