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ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF

A PORTION OF THE SUBDIVISIONAL LINES,

AND

THE SUBDIVISION OF SECTION 17

AND A METES-AND-BOUNDS SURVEY,

TOWNSHIP 1 NORTH, RANGE 4 EAST

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

William P. Carpender, Cadastral Surveyor

Under Special Instructions dated and approved December 4, 1995, which provided for the surveys included under Group Number 795, and assignment instructions dated December 4, 1995.

Survey Commenced December 4, 1995

Survey Completed January 9, 1996

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T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of portions of the subdivisional lines, the subdivision of section 17, and a metes-and-bounds survey in Township 1 North, Range 4 East, Gila and Salt River Meridian, Arizona.

The subdivisional lines were surveyed by Wilfred F. Ingalls, in 1868.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated December 4, 1995, for Group No. 795, Arizona.

Preliminary to the resurvey, the lines of the original survey were retraced and search was made for all corners and other calls of the record. Identified corners were remonumented in their original positions; lost corners were restored at proportionate positions based on the original record. The retracement data were thoroughly verified and only the true line field notes are given herein.

The directions of all lines were determined by the technique of static differential positioning using Ashtech models M-XII and MS-XII geodetic units, confirmed by direct hour angle observations on the sun, and refer to the true meridian. Distances and angles were measured with a Sokkia SET2BII total station instrument.

The geographic position of the 1/4 section corner of sections 16 and 17, Township 1 North, Range 4 East, as determined by the technique of static differential positioning, is as follows. U. S. Coast and Geodetic Survey triangulation station "VAL VISTA 1935" was used as the control station.

Latitude	Longitude	
33°25'44.45" N.	111°57'37.51" W.	NAD27

The mean magnetic declination, as taken from quadrangle map TEMPE, ARIZ., published in 1982 by U.S. Geological Survey, is 13° E.

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Dependent Resurvey of a Portion of the Subdivisional Lines
T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

CHAINS	Restoring the survey executed by Wilfred F. Ingalls, in 1868
	Beginning at the 1/4 sec. cor. of secs. 16 and 17, monumented with a brass tablet, 3 ins. diam., firmly set, flush with a concrete sidewalk, mkd. CITY OF TEMPE 19, is accepted as the best available evidence of the position of the original cor., not remonumented.
	The cor. is located on the W. sidewalk of Priest Drive, 2.20 chs. S. of the center of Rio Salado Parkway, and is panelled for aerial photography with a white painted cross.
	N. 1°31′ W., bet. secs. 16 and 17.
	Over nearly level land, along the W. side of Priest Drive.
2.20	Center of Rio Salado Parkway, a paved, four-lane street, bears E. and W.
3.53	Point for angle point 9, hereinafter described.
26.56	Point for angle point 1, hereinafter described.
27.00	Enter Salt River flood control channel, bears E. and W.
39.25	The cor. of secs. 8, 9, 16, and 17, determined from ties to right-of-way monuments, as per right-of-way plans of the Hohokam Expressway (RBA-600-3-708) provided by the State of Arizona, Department of Transportation, Highways Division, is accepted as the best available evidence of the position of the original cor., and falls in the bed of the Salt River flood control channel, where it is impractical to establish a permanent monument.
	From this cor. point, an aluminum disk, 3 ins. diam., cemented in concrete, 12 ins. diam., firmly set, flush with the ground, mkd. A.D.O.T. HIGHWAY DIV. 1993 138+54.94 389.67, bears N. 1°06′ E., 3.21 chs. dist., with a 4 ins. angle iron, projecting 27 ins. above ground, painted white, mkd. P.O.T. 138+54.94 H.W.Y. R.O.W., alongside, and located in a cyclone fence, 6 ft. high, bears E. and W.
	From this same cor. point, an aluminum disk, 3 ins. diam., cemented in concrete, 12 ins. diam., firmly set, flush with the ground, mkd. A.D.O.T. HIGHWAY DIV. 19 138+31.40 302.78 RT, bears N. 1°06′ E., 4.57 chs. dist., with a 4 ins. angle iron, projecting 26 ins. above ground, painted white, mkd. P.O.T. 138+31.40 H.W.Y. R.O.W., alongside.

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Dependent Resurvey of a Portion of the Subdivisional Lines
T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

CHAINS	
	From this same cor. point, an aluminum disk, 3 ins. diam., cemented in concrete, 12 ins. diam., firmly set, flush with the ground, mkd. A.D.O.T. HIGHWAY DIV. 19, bears N. 30°40′ W., 4.12 chs. dist., with a 4 ins. angle iron, projecting 31 ins. above ground, painted white, mkd. P.O.T. 137+11.57 H.W.Y. R.O.W., alongside, and located in a cyclone fence, 6 ft. high, bears E. and W.
	N. 88°35′ W., bet. secs. 8 and 17.
	In the bed of the Salt River flood control channel.
19.53	Point for the E. 1/16 sec. cor. of secs. 8 and 17, falls in the bed of the Salt River flood control channel, where it is impractical to establish a permanent monument.
39.06	The 1/4 sec. cor. of secs. 8 and 17, determined from ties to right-of-way monuments, as per right-of-way plans of the Hohokam Expressway (RBA-600-3-708) provided by the State of Arizona, Department of Transportation, Highways Division, is accepted as the best available evidence of the position of the original cor., and falls in the bed of the Salt River flood control channel, where it is impractical to establish a permanent monument.
	From this cor. point, an aluminum disk, 3 ins. diam., cemented in concrete, 12 ins. diam., firmly set, flush with the ground, mkd. A.D.O.T. HIGHWAY DIV. 19 78+79.95 204.08 RT, bears N. 20°43′ E., 4.32 chs. dist., with a 4 ins. angle iron, projecting 25 ins. above ground, painted white, mkd. P.O.T. 78+79.95 H.W.Y. R.O.W., alongside.
	From this same cor. point, an aluminum disk, 3 ins. diam., cemented in concrete, 18 ins. diam., firmly set, flush with the ground, mkd. A.D.O.T. HIGHWAY DIV. 19 72+32.72 113.99 RT, bears N. 72°54′ W., 8.54 chs. dist., with a 4 ins. angle iron, projecting 27 ins. above ground, painted white, mkd. P.O.T. 72+32.72 H.W.Y. R.O.W., alongside.
	Subdivision of Section 17 T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona
	From the 1/4 sec. cor. of secs. 17 and 20, monumented with a brass disk, 3 ins. diam., firmly set in a hand-hole, 12 ins. below ground, mkd. CITY OF TEMPE 19, is accepted as the best available evidence of the position of the original cor., not remonumented.
	The cor. is located in the center of the intersection of 52nd Street, bears N. and S., and University Drive, bears E. and W.

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Subdivision of Section 17

T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

CHAINS	
	N. 0°46′ W., on the N. and S. center line of sec. 17.
	Over nearly level land, along 52nd Street.
39.68	The center 1/4 sec. cor. of sec. 17, monumented with a brass disk, 3 ins. diam., firmly set, flush with the pavement, mkd. OF TEMPE, has long been used by local surveyors and land owners, is accepted as a careful and faithful determination of the position of the cor., not remonumented.
	The cor. is located at the N. side of the intersection of Rio Salado Parkway, bears N., 1st Street, bears E., and 52nd Street, bears S., and is panelled for aerial photography with a white painted cross.
	N. 0°47′ W., beginning new measurement.
39.78	The 1/4 sec. cor. of secs. 8 and 17.
	From the 1/4 sec. cor. of secs. 16 and 17.
	N. 89°23′ W., on the E. and W. center line of sec. 17.
	Over nearly level land.
16.10	Intersection of Linden Lane, bears S., and 1st Street, bears W.; thence along 1st Street.
39.55	The center 1/4 sec. cor. of sec. 17.
	N. 89°26′ W., beginning new measurement.
35.53	An aluminum disk, 3 ins. diam., cemented in concrete, 12 ins. diam., firmly set, flush with the ground, mkd. A.D.O.T. HIGHWAY DIV. 19, with a 4 ins. angle iron, projecting 25 ins. above ground, painted white, mkd. P.O.T. 79+36.10 H.W.Y. R.O.W., alongside, and located 15 lks. S. of a cyclone fence, 6 ft. high, bears E. and W.
	From this point, an aluminum disk, 3 ins. diam., cemented in concrete, 12 ins. diam., firmly set, flush with the ground, mkd. A.D.O.T. HIGHWAY DIV. 19, bears N. 4°57′ W., 11.73 chs. dist., with a 4 ins. angle iron, 50 ins. long, laying loose alongside, and located 2 lks. W. of a cor. of cyclone fences, 6 ft. high, bearing S. and NW.

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Subdivision of Section 17
T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

CHAINS	
39.88	The 1/4 sec. cor. of secs. 17 and 18, determined from ties to right-of-way monuments, as per right-of-way plans of the Hohokam Expressway (RBA-600-3-708) provided by the State of Arizona, Department of Transportation, Highways Division, and is accepted as the best available evidence of the position of the original cor. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. T1N R4E 1/4 S18 | S17 1995 Deposit a magnet in a 1 x 1 x 2 in. white colored plastic case beneath the stainless steel post. From this cor., an aluminum disk, 3 ins. diam., cemented in concrete, 18 ins. diam., firmly set, 2 ins. below the surface of a ditch, mkd. A.D.O.T. HIGHWAY DIV. 19, bears S. 25°02′ W., 2.33 chs. dist., with a 4 ins. angle iron, projecting 25 ins. above ground, painted white, mkd. P.O.T. 78+23.05 H.W.Y. R.O.W., alongside, and located 20 lks. W. of a gravel road, 30 lks. wide, bears N. and S. From this same cor. point, an aluminum disk, 3 ins. diam., cemented in concrete, 18 ins. diam., firmly set, flush with the ground, mkd. A.D.O.T. HIGHWAY DIV. 19, bears N. 13°32′ W., 4.17 chs. dist., with a 4 ins. angle iron, projecting 20 ins. above ground, painted white, mkd. P.O.T. 82+29.38 H.W.Y. R.O.W., alongside, and located 2 lks. W. of a cyclone fence, 6 ft. high, bears NNW and S. The cor. is located on the W. slope of the landscape, and 40 lks. W. of the W. edge of the pavement of the Hohokam Expressway, bears N. and S.

Metes-and-Bounds Survey in Section 17
T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

From the point for angle point 1, on the line bet. secs. 16 and 17.

Set a steel nail, 3 ins. long, 3/8 in. diam., flush in the pavement, with a round head, 1 in. diam., mkd. SURVEY MARK and a dimple in the center.

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Metes-and-Bounds Survey in Section 17
T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

CHAINS	
	From this cor., the cor. of secs. 8, 9, 16, and 17, hereinbefore described, bears N. 1°31′ W., 12.69 chs. dist. The cor. is located 7 lks. E. of the W. curb of Priest Drive, bears N. and S. N. 89°24′ W., on line 1-2.
1.137	Point for angle point 2. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 28 ins. in the ground, with brass cap mkd. T1N R4E S17 AP2 1995 Deposit a magnet in a 1 x 1 x 2 in. white colored plastic case beneath the stainless steel post. The cor. is located 14 lks. S. of a gate, and in the center of an access road for the Flood Control District of Maricopa County, 55 lks. wide, bears N. and S.
	N. 82°44′ W., on line 2-3.
2.327	Point for angle point 3. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd. T1N R4E S17 AP3 1995 Deposit a magnet in a 1 x 1 x 2 in. white colored plastic case beneath the stainless steel post. The cor. is located at the S. toe of a flood control dike, bears E. and W.
	N. 86°39′ W., on line 3-4.
3.245	Point for angle point 4.

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Metes-and-Bounds Survey in Section 17
T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, with brass cap mkd.
	T1N R4E S17 AP4 1995
	Deposit a magnet in a 1 x 1 x 2 in. white colored plastic case beneath the stainless steel post.
	The cor. is located at the S. toe of a flood control dike, bears E. and W.
	N. 82°35′ W., on line 4-5.
1.220	Point for angle point 5.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.
	T1N R4E S17 AP5 1995
	Deposit a magnet in a 1 x 1 x 2 in. white colored plastic case beneath the stainless steel post.
	The cor. is located at the S. toe of a flood control dike, bears E. and W.
	N. 81°04′ W., on line 5-6.
0.467	Point for angle point 6.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.
	T1N R4E S17 AP6 1995
	Deposit a magnet in a 1 x 1 x 2 in. white colored plastic case beneath the stainless steel post.

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Metes-and-Bounds Survey in Section 17
T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

CHAINS	
	The cor. is located at the S. toe of a flood control dike, bears E. and W.
	S. 1°31′ E., on line 6-7.
23.763	Point for angle point 7.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd.
	T1N R4E S17 | AP7 1995
	Deposit a magnet in a 1 x 1 x 2 in. white colored plastic case beneath the stainless steel post.
	The cor. is located 18 lks. N. of the sidewalk on the N. side of Rio Salado Parkway, bears E. and W. in a curve.
	Thence along a 11°16′43" circular curve to the left, having a radius of 508.00 ft., on line 7-8, the chord of said arc bears S. 83°18′ E., 5.935 chs. dist.
6.093	Point for angle point 8.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, with brass cap mkd.
	T1N R4E AP8 S17 1995
	Deposit a magnet in a 1 x 1 x 2 in. white colored plastic case beneath the stainless steel post.
	The cor. is located 18 lks. N. of the N. sidewalk of Rio Salado Parkway, bears ENE and W. into a curve.
	N. 74°02′ E., on line 8-9.
2.540	Point for angle point 9, at intersection with the line bet. secs. 16 and 17.

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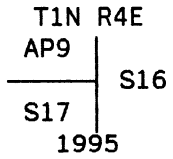
Metes-and-Bounds Survey in Section 17
T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Set a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, in a drill hole, cemented in place, in a concrete gutter, with top mkd.



The cor. is located 1.5 lks. E. of the W. curb of Priest Drive, bears N. and S., and 38 lks N. of the N. curb of Rio Salado Parkway, bears ENE and WSW.

From this cor., the 1/4 sec. cor. of secs. 16 and 17, hereinbefore described, bears S. 1°31′ E., 3.53 chs. dist.

N. 1°31′ W., on line 9-1, identical with a portion of the line bet. secs. 16 and 17.

23.030 Angle point 1, hereinbefore described.

GENERAL DESCRIPTION

Section 17 is located approximately 1.5 miles west of downtown Tempe. The north boundary is in the bed of the Salt River flood control channel, with Sky Harbor Boulevard and the Red Mountain Freeway (Arizona Highway 202) immediately to the north. The east boundary runs along Priest Drive. The south boundary runs along University Drive. The west boundary runs along the west side of the Hohokam Expressway.

The north half of the area surveyed is open and undeveloped, except for a radio beacon on a hill in the northwest 1/4 section. The south half is occupied by industrial subdivisions. The average elevation is 1135 feet above sea level.

The mean magnetic declination is 13° E., as shown on U.S.G.S. Quadrangle "TEMPE, ARIZ.", 1982 edition.

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T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona

CHAINS

The following information is provided for informational purposes only, and not to be utilized for the restoration of lost corners.

The geographic position of the following points were determined by the technique of differential positioning using Ashtech MXII Geodetic Positioning System. U. S. Coast and Geodetic Survey triangulation station "VAL VISTA 1935" was used as the control station.

Station	Latitude	Longitude	
Center 1/4 sec. cor. of sec. 17	33°25'44.72" N.	111°58'08.30" W.	NAD27

BOOK 5459

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Cheryl A. Baier	Surveying Technician
Geoffrey A. Graham	Surveying Technician

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CERTIFICATE OF SURVEY

I, William P. Carpender, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 4th day of December, 1995, I have dependently resurveyed a portion of the subdivisional lines, and subdivided section 17 and performed a metes-and-bounds survey in Township 1 North, Range 4 East, Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

APRIL 10, 1996 (Date)

William P Carpender (Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Arizona State Office
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of portions of the subdivisional lines, and the subdivision of section 17 and a metes-and-bound survey in Township 1 North, Range 4 East, Gila and Salt River Meridian, Arizona, executed by William P. Carpender, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

April 15, 1996 (Date)

James H. Talbot (Acting Chief Cadastral Surveyor of Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in T. 1 N., R. 4 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

~~(Date)~~ ~~(Acting Chief Cadastral Surveyor of Arizona)~~