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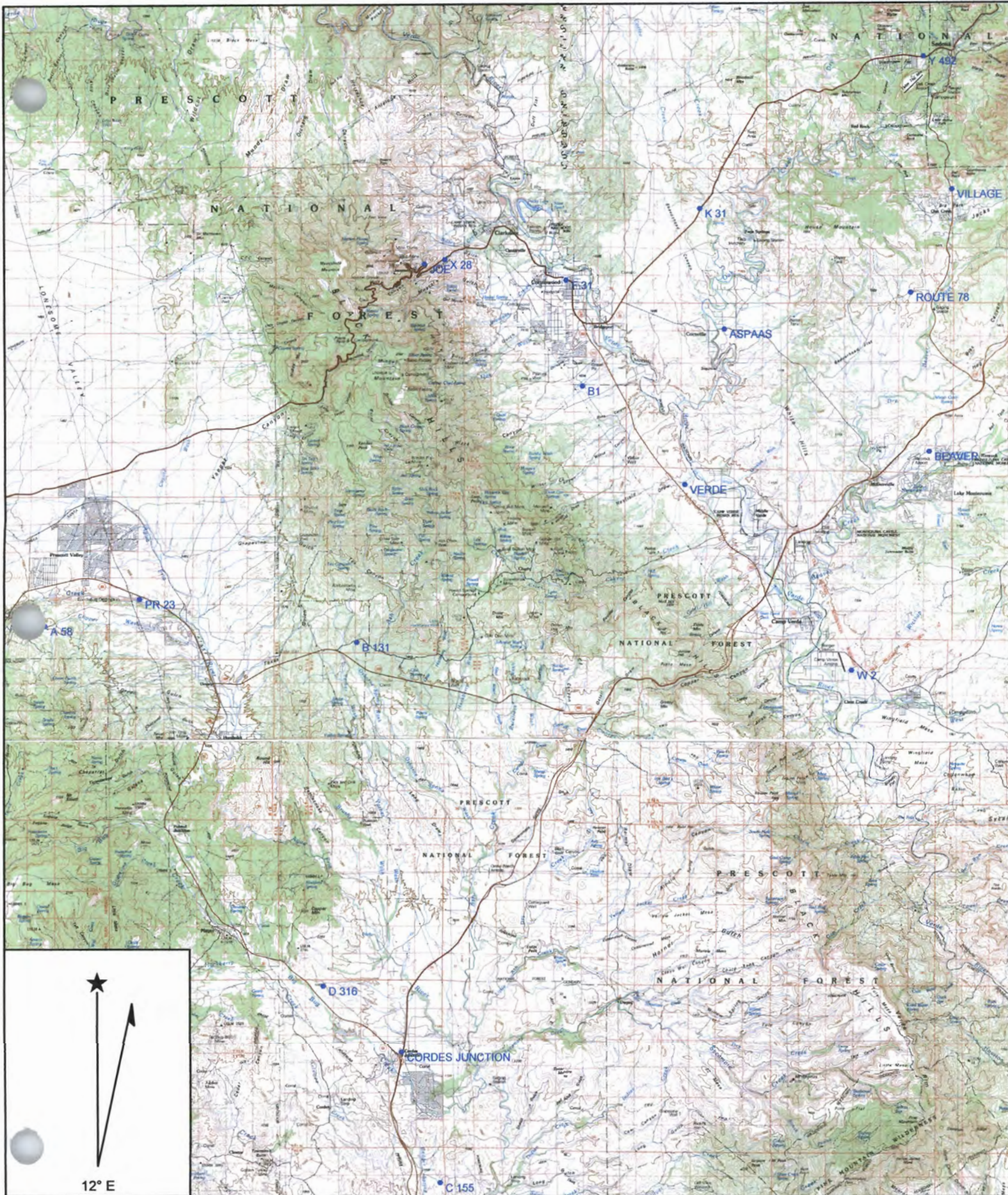
October 23, 2007

**Yavapai County Flood Control District  
2007 Aerial Mapping**

In detailing the survey element of the project, RST Land Surveying, Inc. will be responsible for development of the ground control and supervision of all aspects of work pertaining to their responsible charge. The Ground Control will be established in accordance with Section A.5 of the FEMA Map Modernization Guidelines and derived from existing NAD 83, NAVD 88 control throughout the project area. The National Geodetic survey has available limited points on the ground. RST will supplement that with the use of the Continually Operation References Stations in Flagstaff and Scottsdale, as well as RST's ability to gather positional data from the Base Station at the City of Prescott and the RST base station operating in Prescott Valley, Arizona. Through the performance of Static GPS data collection, RST will densify the control within the project area as well as develop positions on the aerial panels required for the flight.

Primary control used for the establishment of the 30 monuments.

# PRIMARY CONTROL LAYOUT



ET0119 DESIGNATION - A 58  
 ET0119 PID - ET0119  
 ET0119 STATE/COUNTY- AZ/YAVAPAI  
 ET0119 USGS QUAD - PRESCOTT VALLEY SOUTH (1973)  
 ET0119  
 ET0119 \*CURRENT SURVEY CONTROL  
 ET0119

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ET0119\* NAD 83(1986)- 34 33 38. (N) 112 20 55. (W)  
 SCALED  
 ET0119\* NAVD 88 - 1605.05 (+/-2cm) 5265.9 (feet)  
 VERTCON  
 ET0119

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ET0119 GEOID HEIGHT- -26.18 (meters)  
 GEOID03  
 ET0119  
 ET0119 VERT ORDER - SECOND CLASS 0 (See Below)  
 ET0119  
 ET0119.The horizontal coordinates were scaled from a topographic map  
 and have  
 ET0119.an estimated accuracy of +/- 6 seconds.  
 ET0119  
 ET0119.The NAVD 88 height was computed by applying the VERTCON shift  
 value to  
 ET0119.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)  
 ET0119.The vertical order pertains to the NGVD 29 superseded value.  
 ET0119  
 ET0119.The geoid height was determined by GEOID03.  
 ET0119  

| ET0119;         | North      | East     | Units | Estimated |
|-----------------|------------|----------|-------|-----------|
| Accuracy        |            |          |       |           |
| ET0119;SPC AZ C | - 394,910. | 173,720. | MT    | (+/- 180  |

 meters Scaled)  
 ET0119  
 ET0119 SUPERSEDED SURVEY CONTROL  
 ET0119  
 ET0119 NGVD 29 (??/??/92) 1604.175 (m) 5263.03 (f) ADJ  
 UNCH 2 0  
 ET0119  
 ET0119.Superseded values are not recommended for survey control.  
 ET0119.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 ET0119.See file dsdata.txt to determine how the superseded data were  
 derived.  
 ET0119  
 ET0119\_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SUD762251(NAD 83)  
 ET0119\_MARKER: DB = BENCH MARK DISK  
 ET0119\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT  
 ET0119\_SP\_SET: SET IN TOP OF CONCRETE MONUMENT  
 ET0119\_STAMPING: A 58 1934  
 ET0119\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
 ET0119+STABILITY: SURFACE MOTION  
 ET0119\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 ET0119+SATELLITE: SATELLITE OBSERVATIONS - May 08, 2006  
 ET0119  

| ET0119 HISTORY | - Date | Condition  | Report By |
|----------------|--------|------------|-----------|
| ET0119 HISTORY | - 1934 | MONUMENTED | CGS       |

ET0291 \*\*\*\*\*

ET0291 DESIGNATION - C 155

ET0291 PID - ET0291

ET0291 STATE/COUNTY- AZ/YAVAPAI

ET0291 USGS QUAD - CORDES JUNCTION (1974)

ET0291

ET0291 \*CURRENT SURVEY CONTROL

ET0291

ET0291\* NAD 83(1986)- 34 15 52. (N) 112 05 42. (W) SCALED

ET0291\* NAVD 88 - 1080.91 (+/-2cm) 3546.3 (feet) VERTCON

ET0291

ET0291 GEOID HEIGHT- -27.07 (meters) GEOID03

ET0291

ET0291 VERT ORDER - SECOND CLASS 0 (See Below)

ET0291

ET0291.The horizontal coordinates were scaled from a topographic map and have

ET0291.an estimated accuracy of +/- 6 seconds.

ET0291

ET0291.The NAVD 88 height was computed by applying the VERTCON shift value to

ET0291.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

ET0291.The vertical order pertains to the NGVD 29 superseded value.

ET0291

ET0291.The geoid height was determined by GEOID03.

ET0291

ET0291; North East Units Estimated Accuracy

ET0291;SPC AZ C - 362,000. 196,940. MT (+/- 180 meters Scaled)

ET0291

ET0291 SUPERSEDED SURVEY CONTROL

ET0291

ET0291 NGVD 29 (??/??/92) 1080.248 (m) 3544.11 (f) ADJ UNCH 2 0

ET0291

ET0291.Superseded values are not recommended for survey control.

ET0291.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

ET0291.See file dsdata.txt to determine how the superseded data were derived.

ET0291

ET0291\_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SUC991920(NAD 83)

ET0291\_MARKER: DB = BENCH MARK DISK

ET0291\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

ET0291\_STAMPING: C 155 1935

ET0291\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

ET0291+STABILITY: SURFACE MOTION

ET0291

ET0291 HISTORY - Date Condition Report By

ET0291 HISTORY - 1935 MONUMENTED CGS

ET0291 HISTORY - 1952 GOOD NGS

ET0291

ET0291 STATION DESCRIPTION

ET0291

ET0291'DESCRIBED BY NATIONAL GEODETIC SURVEY 1952

ET0291'5.8 MI SE FROM CORDES.

ET0291'5.8 MILES SOUTHEAST ALONG BLOODY BASIN ROAD FROM THE GENERAL STORE AT

ET0291'CORDES, 0.2 MILE SOUTHWEST OF THE CROSSING OF A CATTLE GUARD AND THE

ET0291'SUMMIT OF A GRADE, ON A STEEP DOWNGRADE GOING SOUTH, 45 FEET EAST OF

ET0291'THE CENTER LINE OF AND ABOUT 1 FOOT LOWER THAN THE ROAD, 2.0 FEET

ET0291'NORTH OF A WITNESS POST, AND SET IN THE TOP OF A CONCRETE POST

ET0291'PROJECTING 0.4 FOOT ABOVE THE GROUND.

ET0304 \*\*\*\*\*

ET0304 DESIGNATION - D 316

ET0304 PID - ET0304

ET0304 STATE/COUNTY- AZ/YAVAPAI

ET0304 USGS QUAD - CLEATOR (1974)

ET0304

ET0304 \*CURRENT SURVEY CONTROL

ET0304

ET0304\* NAD 83(1986)- 34 22 07. (N) 112 10 13. (W) SCALED

ET0304\* NAVD 88 - 1286.08 (+/-2cm) 4219.4 (feet) VERTCON

ET0304

ET0304 GEOID HEIGHT- -26.74 (meters) GEOID03

ET0304

ET0304 VERT ORDER - SECOND CLASS 0 (See Below)

ET0304

ET0304.The horizontal coordinates were scaled from a topographic map and have

ET0304.an estimated accuracy of +/- 6 seconds.

ET0304

ET0304.The NAVD 88 height was computed by applying the VERTCON shift value to

ET0304.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

ET0304.The vertical order pertains to the NGVD 29 superseded value.

ET0304

ET0304.The geoid height was determined by GEOID03.

ET0304

ET0304; North East Units Estimated Accuracy

ET0304;SPC AZ C - 373,570. 190,030. MT (+/- 180 meters Scaled)

ET0304

ET0304 SUPERSEDED SURVEY CONTROL

ET0304

ET0304 NGVD 29 (??/??/92) 1285.352 (m) 4217.03 (f) ADJ UNCH 2 0

ET0304

ET0304.Superseded values are not recommended for survey control.

ET0304.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

ET0304.See file dsdata.txt to determine how the superseded data were derived.

ET0304

ET0304 \_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SUD923036(NAD 83)

ET0304 \_MARKER: DB = BENCH MARK DISK

ET0304 \_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

ET0304 \_STAMPING: D 316 1952

ET0304 \_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

ET0304+STABILITY: SURFACE MOTION

ET0304

ET0304 HISTORY - Date Condition Report By

ET0304 HISTORY - 1952 MONUMENTED CGS

ET0304 HISTORY - 1974 GOOD USGS

ET0304

ET0304 STATION DESCRIPTION

ET0304

ET0304'DESCRIBED BY US GEOLOGICAL SURVEY 1974

ET0304'5.0 MI SE FROM MAYER.

ET0304'4.2 MILES SOUTHEAST ALONG STATE HIGHWAY 69 FROM THE POST OFFICE IN  
ET0304'MAYER, THENCE 0.8 MILE EAST ALONG GRADED COUNTY ROAD, AT THE JUNCTION  
ET0304'OF A ROAD LEADING SOUTHEAST, AT THE SUMMIT OF A HILL, 58 FEET SOUTH OF  
ET0304'THE CENTER LINE OF THE COUNTY ROAD, 31 FEET EAST OF THE CENTER LINE OF  
ET0304'THE ROAD LEADING SOUTHEAST 3 FEET BELOW THE ROAD, AND SET IN THE TOP  
ET0304'OF A CONCRETE POST PROJECTING 0.4 FEET ABOVE GROUND.

ET0131 \*\*\*\*\*

ET0131 DESIGNATION - B 131  
ET0131 PID - ET0131  
ET0131 STATE/COUNTY- AZ/YAVAPAI  
ET0131 USGS QUAD - HUMBOLDT (1973)

ET0131  
ET0131 \*CURRENT SURVEY CONTROL

ET0131\* NAD 83(1986)- 34 33 10. (N) 112 08 54. (W) SCALED  
ET0131\* NAVD 88 - 1511.84 (+/-2cm) 4960.1 (feet) VERTCON

ET0131  
ET0131 GEOID HEIGHT- -25.95 (meters) GEOID03

ET0131  
ET0131 VERT ORDER - SECOND CLASS 0 (See Below)

ET0131  
ET0131.The horizontal coordinates were scaled from a topographic map and have  
ET0131.an estimated accuracy of +/- 6 seconds.

ET0131  
ET0131.The NAVD 88 height was computed by applying the VERTCON shift value to  
ET0131.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)  
ET0131.The vertical order pertains to the NGVD 29 superseded value.

ET0131  
ET0131.The geoid height was determined by GEOID03.

ET0131;  
ET0131;SPC AZ C - 393,990. 192,100. MT (+/- 180 meters Scaled)

ET0131  
ET0131 SUPERSEDED SURVEY CONTROL

ET0131 NGVD 29 (??/??/92) 1511.016 (m) 4957.39 (f) ADJ UNCH 2 0

ET0131  
ET0131.Superseded values are not recommended for survey control.  
ET0131.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
ET0131.See file dsdata.txt to determine how the superseded data were derived.

ET0131  
ET0131\_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SUD946240(NAD 83)  
ET0131\_MARKER: DB = BENCH MARK DISK  
ET0131\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT  
ET0131\_STAMPING: B 131 1935  
ET0131\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
ET0131+STABILITY: SURFACE MOTION

ET0131  
ET0131 HISTORY - Date Condition Report By  
ET0131 HISTORY - 1935 MONUMENTED CGS  
ET0131 HISTORY - 1973 POOR USGS

ET0131  
ET0131 STATION DESCRIPTION

ET0131'DESCRIBED BY COAST AND GEODETIC SURVEY 1935  
ET0131'6.2 MI E FROM DEWEY.  
ET0131'ABOUT 6.2 MILES EAST ALONG THE CHERRY ROAD FROM DEWEY, YAVAPAI  
ET0131'COUNTY, ABOUT 400 FEET NORTHEAST OF A HOUSE, ABOUT 100 YARDS SOUTHEAST  
ET0131'OF A WINDMILL, AT THE NORTHEAST FENCE CORNER, AND 9 FEET WEST OF THE  
ET0131'CENTER LINE OF A ROAD PARALLELING A FENCE, AND SET IN THE TOP OF A  
ET0131'CONCRETE POST.

ET0131  
ET0131 STATION RECOVERY (1973)

ET0131  
ET0131'RECOVERY NOTE BY US GEOLOGICAL SURVEY 1973  
ET0131'MARK RECOVERED IN POOR CONDITION.

AI1939 \*\*\*\*\*

AI1939 FBN - This is a Federal Base Network Control Station.

AI1939 DESIGNATION - PR 23

AI1939 PID - AI1939

AI1939 STATE/COUNTY- AZ/YAVAPAI

AI1939 USGS QUAD - PRESCOTT VALLEY SOUTH (1973)

AI1939

AI1939 \*CURRENT SURVEY CONTROL

AI1939

AI1939\* NAD 83(1992)- 34 34 33.49023(N) 112 17 18.12457(W) ADJUSTED

AI1939\* NAVD 88 - 1482.5 (meters) 4864. (feet) GPS OBS

AI1939

AI1939 X - -1,994,369.013 (meters) COMP

AI1939 Y - -4,865,587.522 (meters) COMP

AI1939 Z - 3,600,060.609 (meters) COMP

AI1939 LAPLACE CORR- 1.73 (seconds) DEFLEC99

AI1939 ELLIP HEIGHT- 1456.47 (meters) (09/30/99) GPS OBS

AI1939 GEOID HEIGHT- -26.07 (meters) GEOID03

AI1939

AI1939 HORZ ORDER - A

AI1939 ELLP ORDER - THIRD CLASS I

AI1939

AI1939.The horizontal coordinates were established by GPS observations

AI1939.and adjusted by the National Geodetic Survey in September 1999.

AI1939

AI1939.The orthometric height was determined by GPS observations and a

AI1939.high-resolution geoid model.

AI1939

AI1939.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AI1939

AI1939.The Laplace correction was computed from DEFLEC99 derived deflections.

AI1939

AI1939.The ellipsoidal height was determined by GPS observations

AI1939.and is referenced to NAD 83.

AI1939

AI1939.The geoid height was determined by GEOID03.

AI1939

AI1939; North East Units Scale Factor Converg.

AI1939;SPC AZ C - 396,601.154 179,257.284 MT 0.99991433 -0 12 39.4

AI1939;UTM 12 - 3,826,775.408 381,827.463 MT 0.99977212 -0 43 52.4

AI1939

AI1939! - Elev Factor x Scale Factor = Combined Factor

AI1939!SPC AZ C - 0.99977142 x 0.99991433 = 0.99968577

AI1939!UTM 12 - 0.99977142 x 0.99977212 = 0.99954360

AI1939

AI1939 SUPERSEDED SURVEY CONTROL

AI1939

AI1939.No superseded survey control is available for this station.

AI1939

AI1939\_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SUD8182726775(NAD 83)

AI1939\_MARKER: DD = SURVEY DISK

AI1939\_SETTING: 80 = SET IN A BOULDER

AI1939\_STAMPING: PR-23 1980

AI1939\_MARK LOGO: AZDT

AI1939\_MAGNETIC: N = NO MAGNETIC MATERIAL

AI1939\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AI1939+STABILITY: SURFACE MOTION

AI1939\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AI1939+SATELLITE: SATELLITE OBSERVATIONS - January 21, 1999

AI1939

AI1939 HISTORY - Date Condition Report By



# The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.42

1 National Geodetic Survey, Retrieval Date = MARCH 2, 2007

ET0226 \*\*\*\*\*

ET0226 DESIGNATION - CORDES JUNCTION

ET0226 PID - ET0226

ET0226 STATE/COUNTY- AZ/YAVAPAI

ET0226 USGS QUAD - CORDES JUNCTION (1974)

ET0226

ET0226 \*CURRENT SURVEY CONTROL

ET0226

ET0226\* NAD 83(1992)- 34 20 01.56694(N) 112 07 13.68534(W) ADJUSTED

ET0226\* NAVD 88 - 1166.8 (meters) 3828. (feet) GPS OBS

ET0226

ET0226 X - -1,985,729.028 (meters) COMP

ET0226 Y - -4,885,253.621 (meters) COMP

ET0226 Z - 3,577,722.821 (meters) COMP

ET0226 LAPLACE CORR- 1.69 (seconds) DEFLEC99

ET0226 ELLIP HEIGHT- 1139.92 (meters) (09/30/99) GPS OBS

ET0226 GEOID HEIGHT- -26.83 (meters) GEOID03

ET0226

ET0226 HORZ ORDER - A

ET0226 VERT ORDER - SECOND CLASS 0 (See Below)

ET0226 ELLP ORDER - THIRD CLASS I

ET0226

ET0226.The horizontal coordinates were established by GPS observations

ET0226.and adjusted by the National Geodetic Survey in September 1999..

ET0226

ET0226.The orthometric height was determined by GPS observations and a

ET0226.high-resolution geoid model.

ET0226.The vertical order pertains to the NGVD 29 superseded value.

ET0226

ET0226.The X, Y, and Z were computed from the position and the ellipsoidal ht.

ET0226

ET0226.The Laplace correction was computed from DEFLEC99 derived deflections.

ET0226

ET0226.The ellipsoidal height was determined by GPS observations

ET0226.and is referenced to NAD 83.

ET0226

ET0226.The geoid height was determined by GEOID03.

ET0226

ET0226; North East Units Scale Factor Converg.

ET0226;SPC AZ C - 369,692.375 194,607.664 MT 0.99990433 -0 06 53.8

ET0226;SPC AZ C - 1,212,901.49 638,476.59 fT 0.99990433 -0 06 53.8

ET0226;UTM 12 - 3,799,733.040 396,931.238 MT 0.99973094 -0 37 55.3

ET0226

ET0226! - Elev Factor x Scale Factor = Combined Factor

ET0226!SPC AZ C - 0.99982109 x 0.99990433 = 0.99972544

ET0226!UTM 12 - 0.99982109 x 0.99973094 = 0.99955208

ET0226

ET0226|-----|

ET0226| PID Reference Object Distance Geod. Az |

ET0226| | dddmmss.s |

ET0226| ET0225 CORDES JUNCTION RM 1 9.208 METERS 01914 |

# The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.42

1 National Geodetic Survey, Retrieval Date = FEBRUARY 13, 2007

ET0886 \*\*\*\*\*

ET0886 DESIGNATION - SENATOR  
 ET0886 PID - ET0886  
 ET0886 STATE/COUNTY- AZ/YAVAPAI  
 ET0886 USGS QUAD - PRESCOTT (1973)

ET0886  
 ET0886 \*CURRENT SURVEY CONTROL

|         |               |                          |                    |          |
|---------|---------------|--------------------------|--------------------|----------|
| ET0886* | NAD 83(1992)- | 34 31 20.37609(N)        | 112 27 10.17031(W) | ADJUSTED |
| ET0886* | NAVD 88       | - 1857.6 (meters)        | 6094. (feet)       | GPS OBS  |
| ET0886  | X             | -2,009,733.669 (meters)  |                    | COMP     |
| ET0886  | Y             | -4,863,247.988 (meters)  |                    | COMP     |
| ET0886  | Z             | - 3,595,370.613 (meters) |                    | COMP     |
| ET0886  | LAPLACE CORR- | 4.68 (seconds)           |                    | DEFLEC99 |
| ET0886  | ELLIP HEIGHT- | 1831.22 (meters)         | (09/30/99)         | GPS OBS  |
| ET0886  | GEOID HEIGHT- | -26.40 (meters)          |                    | GEOID03  |

ET0886  
 ET0886 HORZ ORDER - A  
 ET0886 ELLP ORDER - THIRD CLASS I  
 ET0886

ET0886.The horizontal coordinates were established by GPS observations  
 ET0886.and adjusted by the National Geodetic Survey in September 1999..  
 ET0886

ET0886.The orthometric height was determined by GPS observations and a  
 ET0886.high-resolution geoid model.  
 ET0886

ET0886.The X, Y, and Z were computed from the position and the ellipsoidal ht.  
 ET0886

ET0886.The Laplace correction was computed from DEFLEC99 derived deflections.  
 ET0886

ET0886.The ellipsoidal height was determined by GPS observations  
 ET0886.and is referenced to NAD 83.  
 ET0886

ET0886.The geoid height was determined by GEOID03.  
 ET0886

| ET0886;         | North           | East        | Units | Scale Factor | Converg.   |
|-----------------|-----------------|-------------|-------|--------------|------------|
| ET0886;SPC AZ C | - 390,718.773   | 164,137.015 | MT    | 0.99992985   | -0 18 13.9 |
| ET0886;SPC AZ C | - 1,281,885.74  | 538,507.27  | iFT   | 0.99992985   | -0 18 13.9 |
| ET0886;UTM 12   | - 3,821,031.208 | 366,656.355 | MT    | 0.99981916   | -0 49 24.5 |

ET0886!  
 ET0886!SPC AZ C - Elev Factor x Scale Factor = Combined Factor  
 ET0886!UTM 12 - 0.99971263 x 0.99981916 = 0.99953184

| ET0886:         | Primary Azimuth Mark | Grid Az     |
|-----------------|----------------------|-------------|
| ET0886:SPC AZ C | - GLASSFORD          | 041 28 36.3 |
| ET0886:UTM 12   | - GLASSFORD          | 041 59 46.9 |

ET0886|-----|  
 ET0886| PID Reference Object Distance Geod. Az |

DH5787 HT\_MOD - This is a Height Modernization Survey Station.  
 DH5787 DESIGNATION - BEAVER  
 DH5787 PID - DH5787  
 DH5787 STATE/COUNTY- AZ/YAVAPAI  
 DH5787 USGS QUAD - LAKE MONTEZUMA (1969)  
 DH5787  
 DH5787 \*CURRENT SURVEY CONTROL  
 DH5787

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DH5787\* NAD 83(1992)- 34 39 13.09408(N) 111 46 43.82626(W)  
 ADJUSTED  
 DH5787\* NAVD 88 - 1090.00 (meters) 3576.1 (feet) GPS  
 OBS  
 DH5787

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DH5787 X - -1,949,085.461 (meters)  
 COMP  
 DH5787 Y - -4,878,285.301 (meters)  
 COMP  
 DH5787 Z - 3,606,930.265 (meters)  
 COMP  
 DH5787 LAPLACE CORR- 7.57 (seconds)  
 DEFLEC99  
 DH5787 ELLIP HEIGHT- 1064.62 (meters) (05/31/05) GPS  
 OBS  
 DH5787 GEOID HEIGHT- -25.36 (meters)  
 GEOID03

DH5787  
 DH5787 HORZ ORDER - A  
 DH5787 ELLP ORDER - FOURTH CLASS II  
 DH5787

DH5787.The horizontal coordinates were established by GPS observations  
 DH5787.and adjusted by the National Geodetic Survey in May 2005..  
 DH5787

DH5787.The orthometric height was determined by GPS observations and a  
 DH5787.high-resolution geoid model using precise GPS observation and  
 DH5787.processing techniques.  
 DH5787

DH5787.The X, Y, and Z were computed from the position and the  
 ellipsoidal ht.  
 DH5787

DH5787.The Laplace correction was computed from DEFLEC99 derived  
 deflections.  
 DH5787

DH5787.The ellipsoidal height was determined by GPS observations  
 DH5787.and is referenced to NAD 83.  
 DH5787

DH5787.The geoid height was determined by GEOID03.  
 DH5787

| DH5787;           | North         | East        | Units | Scale      | Factor |
|-------------------|---------------|-------------|-------|------------|--------|
| Converg.          |               |             |       |            |        |
| DH5787;SPC AZ C - | 405,162.112   | 225,993.415 | MT    | 0.99990197 |        |
| +0 04 42.1        |               |             |       |            |        |
| DH5787;SPC AZ C - | 1,329,272.02  | 741,448.21  | iFT   | 0.99990197 |        |
| +0 04 42.1        |               |             |       |            |        |
| DH5787;UTM 12 -   | 3,834,909.678 | 428,630.546 | MT    | 0.99966278 | -      |
| 0 26 34.4         |               |             |       |            |        |

DH5795 HT\_MOD - This is a Height Modernization Survey Station.  
 DH5795 DESIGNATION - VILLAGE  
 DH5795 PID - DH5795  
 DH5795 STATE/COUNTY- AZ/YAVAPAI  
 DH5795 USGS QUAD - SEDONA (1969)  
 DH5795  
 DH5795 \*CURRENT SURVEY CONTROL  
 DH5795

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DH5795\* NAD 83(1992)- 34 47 30.28041(N) 111 45 49.25948(W)  
 ADJUSTED  
 DH5795\* NAVD 88 - 1281.62 (meters) 4204.8 (feet) GPS  
 OBS  
 DH5795

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DH5795 X - -1,944,617.113 (meters)  
 COMP  
 DH5795 Y - -4,870,841.205 (meters)  
 COMP  
 DH5795 Z - 3,619,634.726 (meters)  
 COMP  
 DH5795 LAPLACE CORR- 7.16 (seconds)  
 DEFLEC99  
 DH5795 ELLIP HEIGHT- 1256.94 (meters) (05/31/05) GPS  
 OBS  
 DH5795 GEOID HEIGHT- -24.68 (meters)  
 GEOID03  
 DH5795  
 DH5795 HORZ ORDER - A  
 DH5795 ELLP ORDER - FOURTH CLASS II  
 DH5795

DH5795.The horizontal coordinates were established by GPS observations  
 DH5795.and adjusted by the National Geodetic Survey in May 2005..  
 DH5795

DH5795.The orthometric height was determined by GPS observations and a  
 DH5795.high-resolution geoid model using precise GPS observation and  
 DH5795.processing techniques.  
 DH5795

DH5795.The X, Y, and Z were computed from the position and the  
 ellipsoidal ht.  
 DH5795

DH5795.The Laplace correction was computed from DEFLEC99 derived  
 deflections.  
 DH5795

DH5795.The ellipsoidal height was determined by GPS observations  
 DH5795.and is referenced to NAD 83.  
 DH5795

DH5795.The geoid height was determined by GEOID03.  
 DH5795

| DH5795;           | North         | East        | Units | Scale      | Factor |   |
|-------------------|---------------|-------------|-------|------------|--------|---|
| Converg.          |               |             |       |            |        |   |
| DH5795;SPC AZ C - | 420,483.609   | 227,359.478 | MT    | 0.99990241 |        |   |
| +0 05 14.3        |               |             |       |            |        |   |
| DH5795;SPC AZ C - | 1,379,539.40  | 745,930.05  | iFT   | 0.99990241 |        |   |
| +0 05 14.3        |               |             |       |            |        |   |
| DH5795;UTM 12 -   | 3,850,214.404 | 430,135.818 | MT    | 0.99966016 |        | - |
| 0 26 08.8         |               |             |       |            |        |   |

ES0652 HT\_MOD - This is a Height Modernization Survey Station.  
 ES0652 DESIGNATION - Y 492  
 ES0652 PID - ES0652  
 ES0652 STATE/COUNTY- AZ/YAVAPAI  
 ES0652 USGS QUAD - SEDONA (1969)  
 ES0652  
 ES0652 \*CURRENT SURVEY CONTROL  
 ES0652

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ES0652\* NAD 83(1992)- 34 51 45.45606(N) 111 46 53.08453(W)  
 ADJUSTED  
 ES0652\* NAVD 88 - 1353.20 (meters) 4439.6 (feet) GPS  
 OBS  
 ES0652

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ES0652 X - -1,944,479.357 (meters)  
 COMP  
 ES0652 Y - -4,866,122.926 (meters)  
 COMP  
 ES0652 Z - 3,626,132.032 (meters)  
 COMP  
 ES0652 LAPLACE CORR- 6.35 (seconds)  
 DEFLEC99  
 ES0652 ELLIP HEIGHT- 1328.79 (meters) (05/31/05) GPS  
 OBS  
 ES0652 GEOID HEIGHT- -24.40 (meters)  
 GEOID03

ES0652  
 ES0652 HORZ ORDER - A  
 ES0652 ELLP ORDER - FOURTH CLASS II  
 ES0652  
 ES0652.The horizontal coordinates were established by GPS observations  
 ES0652.and adjusted by the National Geodetic Survey in May 2005..  
 ES0652  
 ES0652.The orthometric height was determined by GPS observations and a  
 ES0652.high-resolution geoid model using precise GPS observation and  
 ES0652.processing techniques. It supersedes the leveled height  
 previously  
 ES0652.determined for this station.  
 ES0652  
 ES0652.The X, Y, and Z were computed from the position and the  
 ellipsoidal ht.  
 ES0652  
 ES0652.The Laplace correction was computed from DEFLEC99 derived  
 deflections.  
 ES0652  
 ES0652.The ellipsoidal height was determined by GPS observations  
 ES0652.and is referenced to NAD 83.  
 ES0652  
 ES0652.The geoid height was determined by GEOID03.  
 ES0652  

| ES0652;         | North          | East        | Units | Scale      | Factor |
|-----------------|----------------|-------------|-------|------------|--------|
| Converg.        |                |             |       |            |        |
| ES0652;SPC AZ C | - 428,343.982  | 225,726.484 | MT    | 0.99990188 |        |
| +0 04 38.3      |                |             |       |            |        |
| ES0652;SPC AZ C | - 1,405,328.02 | 740,572.45  | iFT   | 0.99990188 |        |
| +0 04 38.3      |                |             |       |            |        |

ES0652 \*\*\*\*\*

ES0652 DESIGNATION - Y 492

ES0652 PID - ES0652

ES0652 STATE/COUNTY- AZ/YAVAPAI

ES0652 USGS QUAD - SEDONA (1969)

ES0652

ES0652 \*CURRENT SURVEY CONTROL

ES0652

ES0652\* NAD 83(1986)- 34 51 45. (N) 111 46 53. (W) SCALED

ES0652\* NAVD 88 - 1353.150 (meters) 4439.46 (feet) ADJUSTED

ES0652

ES0652 GEOID HEIGHT- -24.40 (meters) GEOID03

ES0652 DYNAMIC HT - 1351.411 (meters) 4433.75 (feet) COMP

ES0652 MODELED GRAV- 979,302.1 (mgal) NAVD 88

ES0652

ES0652 VERT ORDER - FIRST CLASS II

ES0652

ES0652.The horizontal coordinates were scaled from a topographic map and have an estimated accuracy of +/- 6 seconds.

ES0652

ES0652.The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in June 1991.

ES0652

ES0652.The geoid height was determined by GEOID03.

ES0652

ES0652.The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (g = 980.6199 gals.).

ES0652

ES0652.The modeled gravity was interpolated from observed gravity values.

ES0652

ES0652; North East Units Estimated Accuracy  
ES0652;SPC AZ C - 428,330. 225,730. MT (+/- 180 meters Scaled)

ES0652

ES0652 SUPERSEDED SURVEY CONTROL

ES0652

ES0652.No superseded survey control is available for this station.

ES0652

ES0652\_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SVD285580(NAD 83)

ES0652\_MARKER: DB = BENCH MARK DISK

ES0652\_SETTING: 66 = SET IN ROCK OUTCROP

ES0652\_STAMPING: Y 492 1982

ES0652\_MARK LOGO: NGS

ES0652\_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

ES0652+STABILITY: POSITION/ELEVATION WELL

ES0652

ES0652 HISTORY - Date Condition Report By

ES0652 HISTORY - 1982 MONUMENTED NGS

ES0652 HISTORY - 19950713 GOOD USPSQD

ES0652

ES0652 STATION DESCRIPTION

ES0652

ES0652'DESCRIBED BY NATIONAL GEODETIC SURVEY 1982

ES0652'1.8 KM (1.1 MI) WEST FROM SEDONA.

ES0652'1.8 KM (1.1 MI) WEST ALONG US HIGHWAY 89 ALTERNATE FROM THE POST

ES0652'OFFICE IN SEDONA, IN TOP OF A 6 BY 8 FOOT PORTION OF SANDSTONE OUTCROP

ES0652'PROJECTING 0.6 OF AN INCH FROM A CUT AND AT THE CREST OF A GRADE, AT

ES0652'MILEPOST 373, 0.3 KM (0.2 MI) WEST OF THE YAVAPAI COUNTY LINE, 13.4

ES0652'METERS (44 FT) NORTH OF THE HIGHWAY CENTERLINE, 34.7 METERS (114 FT)

ES0652'EAST OF MILEPOST 373, 23.4 METERS (77 FT) SOUTHEAST OF A POWER POLE

ES0457 \*\*\*\*\*

ES0457 DESIGNATION - W 2

ES0457 PID - ES0457

ES0457 STATE/COUNTY- AZ/YAVAPAI

ES0457 USGS QUAD - CAMP VERDE (1969)

ES0457

ES0457 \*CURRENT SURVEY CONTROL

ES0457

ES0457\* NAD 83(1992)- 34 32 14.38166(N) 111 49 45.46956(W) ADJUSTED

ES0457\* NAVD 88 - 944.310 (meters) 3098.12 (feet) ADJUSTED

ES0457

ES0457 X - -1,956,060.378 (meters) COMP

ES0457 Y - -4,883,256.794 (meters) COMP

ES0457 Z - 3,596,224.466 (meters) COMP

ES0457 LAPLACE CORR- 3.69 (seconds) DEFLEC99

ES0457 ELLIP HEIGHT- 918.39 (meters) (09/30/99) GPS OBS

ES0457 GEOID HEIGHT- -25.92 (meters) GEOID03

ES0457 DYNAMIC HT - 943.131 (meters) 3094.26 (feet) COMP

ES0457 MODELED GRAV- 979,355.6 (mgal) NAVD 88

ES0457

ES0457 HORZ ORDER - A

ES0457 VERT ORDER - FIRST CLASS II

ES0457 ELLP ORDER - THIRD CLASS I

ES0457

ES0457.The horizontal coordinates were established by GPS observations

ES0457.and adjusted by the National Geodetic Survey in September 1999.

ES0457

ES0457.The orthometric height was determined by differential leveling

ES0457.and adjusted by the National Geodetic Survey in June 1991.

ES0457

ES0457.The X, Y, and Z were computed from the position and the ellipsoidal ht.

ES0457

ES0457.The Laplace correction was computed from DEFLEC99 derived deflections.

ES0457

ES0457.The ellipsoidal height was determined by GPS observations

ES0457.and is referenced to NAD 83.

ES0457

ES0457.The geoid height was determined by GEOID03.

ES0457

ES0457.The dynamic height is computed by dividing the NAVD 88

ES0457.geopotential number by the normal gravity value computed on the

ES0457.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

ES0457.degrees latitude (g = 980.6199 gals.).

ES0457

ES0457.The modeled gravity was interpolated from observed gravity values.

ES0457

ES0457; North East Units Scale Factor Converg.

ES0457;SPC AZ C - 392,255.701 221,379.640 MT 0.99990079 +0 02 58.3

ES0457;UTM 12 - 3,822,048.725 423,900.828 MT 0.99967138 -0 28 12.7

ES0457

ES0457! - Elev Factor x Scale Factor = Combined Factor

ES0457!SPC AZ C - 0.99985586 x 0.99990079 = 0.99975666

ES0457!UTM 12 - 0.99985586 x 0.99967138 = 0.99952728

ES0457

ES0457 SUPERSEDED SURVEY CONTROL

ES0457

ES0457 NAVD 88 (09/30/99) 944.31 (m) 3098.1 (f) LEVELING 3

ES0457 NGVD 29 (??/??/92) 943.605 (m) 3095.81 (f) ADJ UNCH 1 2

ES0457

ES0457.Superseded values are not recommended for survey control.

ES0457.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DH5794 HT\_MOD - This is a Height Modernization Survey Station.  
 DH5794 DESIGNATION - VERDE  
 DH5794 PID - DH5794  
 DH5794 STATE/COUNTY- AZ/YAVAPAI  
 DH5794 USGS QUAD - CORNVILLE (1968)  
 DH5794  
 DH5794 \*CURRENT SURVEY CONTROL  
 DH5794

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DH5794\* NAD 83(1992)- 34 38 11.63440(N) 111 56 10.17109(W)  
 ADJUSTED  
 DH5794\* NAVD 88 - 987.69 (meters) 3240.4 (feet) GPS  
 OBS  
 DH5794

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DH5794 X - -1,962,843.162 (meters)  
 COMP  
 DH5794 Y - -4,873,835.682 (meters)  
 COMP  
 DH5794 Z - 3,605,313.489 (meters)  
 COMP  
 DH5794 LAPLACE CORR- 0.67 (seconds)  
 DEFLEC99  
 DH5794 ELLIP HEIGHT- 961.80 (meters) (05/31/05) GPS  
 OBS  
 DH5794 GEOID HEIGHT- -25.88 (meters)  
 GEOID03  
 DH5794  
 DH5794 HORZ ORDER - A  
 DH5794 ELLP ORDER - FOURTH CLASS II  
 DH5794

DH5794.The horizontal coordinates were established by GPS observations  
 DH5794.and adjusted by the National Geodetic Survey in May 2005..  
 DH5794

DH5794.The orthometric height was determined by GPS observations and a  
 DH5794.high-resolution geoid model using precise GPS observation and  
 DH5794.processing techniques.  
 DH5794

DH5794.The X, Y, and Z were computed from the position and the  
 ellipsoidal ht.  
 DH5794

DH5794.The Laplace correction was computed from DEFLEC99 derived  
 deflections.  
 DH5794

DH5794.The ellipsoidal height was determined by GPS observations  
 DH5794.and is referenced to NAD 83.  
 DH5794

DH5794.The geoid height was determined by GEOID03.  
 DH5794

| DH5794;         | North           | East        | Units | Scale      | Factor |   |
|-----------------|-----------------|-------------|-------|------------|--------|---|
| Converg.        |                 |             |       |            |        |   |
| DH5794;SPC AZ C | - 403,259.953   | 211,572.961 | MT    | 0.99990004 |        | - |
| 0 00 39.9       |                 |             |       |            |        |   |
| DH5794;SPC AZ C | - 1,323,031.34  | 694,137.01  | iFT   | 0.99990004 |        | - |
| 0 00 39.9       |                 |             |       |            |        |   |
| DH5794;UTM 12   | - 3,833,139.156 | 414,196.625 | MT    | 0.99969074 |        | - |
| 0 31 55.6       |                 |             |       |            |        |   |



DH5793 HT\_MOD - This is a Height Modernization Survey Station.  
 DH5793 DESIGNATION - ROUTE 78  
 DH5793 PID - DH5793  
 DH5793 STATE/COUNTY- AZ/YAVAPAI  
 DH5793 USGS QUAD - LAKE MONTEZUMA (1969)  
 DH5793  
 DH5793 \*CURRENT SURVEY CONTROL  
 DH5793

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DH5793\* NAD 83(1992)- 34 44 12.96746(N) 111 47 25.40645(W)  
 ADJUSTED  
 DH5793\* NAVD 88 - 1210.94 (meters) 3972.9 (feet) GPS  
 OBS  
 DH5793

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DH5793 X - -1,948,152.934 (meters)  
 COMP  
 DH5793 Y - -4,873,099.912 (meters)  
 COMP  
 DH5793 Z - 3,614,598.225 (meters)  
 COMP  
 DH5793 LAPLACE CORR- 6.51 (seconds)  
 DEFLEC99  
 DH5793 ELLIP HEIGHT- 1185.86 (meters) (05/31/05) GPS  
 OBS  
 DH5793 GEOID HEIGHT- -25.06 (meters)  
 GEOID03  
 DH5793  
 DH5793 HORZ ORDER - A  
 DH5793 ELLP ORDER - FOURTH CLASS II  
 DH5793

DH5793.The horizontal coordinates were established by GPS observations  
 DH5793.and adjusted by the National Geodetic Survey in May 2005..  
 DH5793

DH5793.The orthometric height was determined by GPS observations and a  
 DH5793.high-resolution geoid model using precise GPS observation and  
 DH5793.processing techniques.  
 DH5793

DH5793.The X, Y, and Z were computed from the position and the  
 ellipsoidal ht.  
 DH5793

DH5793.The Laplace correction was computed from DEFLEC99 derived  
 deflections.  
 DH5793

DH5793.The ellipsoidal height was determined by GPS observations  
 DH5793.and is referenced to NAD 83.  
 DH5793

DH5793.The geoid height was determined by GEOID03.  
 DH5793

| DH5793;         | North           | East        | Units | Scale      | Factor |   |
|-----------------|-----------------|-------------|-------|------------|--------|---|
| Converg.        |                 |             |       |            |        |   |
| DH5793;SPC AZ C | - 414,400.491   | 224,923.121 | MT    | 0.99990165 |        |   |
| +0 04 19.0      |                 |             |       |            |        |   |
| DH5793;SPC AZ C | - 1,359,581.66  | 737,936.75  | iFT   | 0.99990165 |        |   |
| +0 04 19.0      |                 |             |       |            |        |   |
| DH5793;UTM 12   | - 3,844,155.218 | 427,644.665 | MT    | 0.99966453 |        | - |
| 0 27 01.4       |                 |             |       |            |        |   |

ES0482 DESIGNATION - K 31 RESET  
 ES0482 PID - ES0482  
 ES0482 STATE/COUNTY- AZ/YAVAPAI  
 ES0482 USGS QUAD - PAGE SPRINGS (1969)  
 ES0482  
 ES0482 \*CURRENT SURVEY CONTROL  
 ES0482

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ES0482\* NAD 83(1992)- 34 46 55.49044(N) 111 55 34.93588(W)  
 ADJUSTED  
 ES0482\* NAVD 88 - 1106.761 (meters) 3631.10 (feet)  
 ADJUSTED  
 ES0482

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ES0482 X - -1,958,614.345 (meters)  
 COMP  
 ES0482 Y - -4,865,733.786 (meters)  
 COMP  
 ES0482 Z - 3,618,653.983 (meters)  
 COMP  
 ES0482 LAPLACE CORR- 3.67 (seconds)  
 DEFLEC99  
 ES0482 ELLIP HEIGHT- 1081.48 (meters) (05/31/05) GPS  
 OBS  
 ES0482 GEOID HEIGHT- -25.31 (meters)  
 GEOID03  
 ES0482 DYNAMIC HT - 1105.361 (meters) 3626.51 (feet)  
 COMP  
 ES0482 MODELED GRAV- 979,332.5 (mgal)  
 NAVD 88  
 ES0482  
 ES0482 HORZ ORDER - A  
 ES0482 VERT ORDER - FIRST CLASS II  
 ES0482 ELLP ORDER - FOURTH CLASS II  
 ES0482

ES0482.The horizontal coordinates were established by GPS observations  
 ES0482.and adjusted by the National Geodetic Survey in May 2005..  
 ES0482  
 ES0482.The orthometric height was determined by differential leveling  
 ES0482.and adjusted by the National Geodetic Survey in June 1991..  
 ES0482  
 ES0482.The X, Y, and Z were computed from the position and the  
 ellipsoidal ht.  
 ES0482  
 ES0482.The Laplace correction was computed from DEFLEC99 derived  
 deflections.  
 ES0482  
 ES0482.The ellipsoidal height was determined by GPS observations  
 ES0482.and is referenced to NAD 83.  
 ES0482  
 ES0482.The geoid height was determined by GEOID03.  
 ES0482  
 ES0482.The dynamic height is computed by dividing the NAVD 88  
 ES0482.geopotential number by the normal gravity value computed on the  
 ES0482.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
 ES0482.degrees latitude (g = 980.6199 gals.).  
 ES0482



ET0839 DESIGNATION - B 31  
 ET0839 PID - ET0839  
 ET0839 STATE/COUNTY- AZ/YAVAPAI  
 ET0839 USGS QUAD - COTTONWOOD (1973)  
 ET0839  
 ET0839 \*CURRENT SURVEY CONTROL  
 ET0839

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ET0839\* NAD 83(1992)- 34 41 20.17381(N) 112 00 09.10953(W)  
 ADJUSTED  
 ET0839\* NAVD 88 - 1069.240 (meters) 3508.00 (feet)  
 ADJUSTED  
 ET0839

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ET0839 X - -1,967,274.744 (meters)  
 COMP  
 ET0839 Y - -4,868,556.790 (meters)  
 COMP  
 ET0839 Z - 3,610,139.397 (meters)  
 COMP  
 ET0839 LAPLACE CORR- -1.77 (seconds)  
 DEFLEC99  
 ET0839 ELLIP HEIGHT- 1043.49 (meters) (05/31/05) GPS  
 OBS  
 ET0839 GEOID HEIGHT- -25.75 (meters)  
 GEOID03  
 ET0839 DYNAMIC HT - 1067.887 (meters) 3503.56 (feet)  
 COMP  
 ET0839 MODELED GRAV- 979,333.8 (mgal)  
 NAVD 88  
 ET0839  
 ET0839 HORZ ORDER - B  
 ET0839 VERT ORDER - FIRST CLASS II  
 ET0839 ELLP ORDER - FOURTH CLASS II  
 ET0839  
 ET0839.The horizontal coordinates were established by GPS observations  
 ET0839.and adjusted by the National Geodetic Survey in May 2005..  
 ET0839  
 ET0839.The orthometric height was determined by differential leveling  
 ET0839.and adjusted by the National Geodetic Survey in June 1991..  
 ET0839  
 ET0839.The X, Y, and Z were computed from the position and the  
 ellipsoidal ht.  
 ET0839  
 ET0839.The Laplace correction was computed from DEFLEC99 derived  
 deflections.  
 ET0839  
 ET0839.The ellipsoidal height was determined by GPS observations  
 ET0839.and is referenced to NAD 83.  
 ET0839  
 ET0839.The geoid height was determined by GEOID03.  
 ET0839  
 ET0839.The dynamic height is computed by dividing the NAVD 88  
 ET0839.geopotential number by the normal gravity value computed on the  
 ET0839.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
 ET0839.degrees latitude (g = 980.6199 gals.).  
 ET0839

DH5786

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DH5786 HT MOD - This is a Height Modernization Survey Station.  
 DH5786 DESIGNATION - ASPAAS  
 DH5786 PID - DH5786  
 DH5786 STATE/COUNTY- AZ/YAVAPAI  
 DH5786 USGS QUAD - CORNVILLE (1968)  
 DH5786  
 DH5786 \*CURRENT SURVEY CONTROL  
 DH5786

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DH5786\* NAD 83(1992)- 34 43 05.53969(N) 111 54 37.99526(W)  
 ADJUSTED  
 DH5786\* NAVD 88 - 1049.93 (meters) 3444.6 (feet) GPS  
 OBS  
 DH5786

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DH5786 X - -1,958,760.997 (meters)  
 COMP  
 DH5786 Y - -4,869,978.661 (meters)  
 COMP  
 DH5786 Z - 3,612,798.231 (meters)  
 COMP  
 DH5786 LAPLACE CORR- 3.69 (seconds)  
 DEFLEC99  
 DH5786 ELLIP HEIGHT- 1024.36 (meters) (05/31/05) GPS  
 OBS  
 DH5786 GEOID HEIGHT- -25.56 (meters)  
 GEOID03  
 DH5786  
 DH5786 HORZ ORDER - B  
 DH5786 ELLP ORDER - FOURTH CLASS II  
 DH5786

DH5786.The horizontal coordinates were established by GPS observations  
 DH5786.and adjusted by the National Geodetic Survey in May 2005..  
 DH5786

DH5786.The orthometric height was determined by GPS observations and a  
 DH5786.high-resolution geoid model using precise GPS observation and  
 DH5786.processing techniques.  
 DH5786

DH5786.The X, Y, and Z were computed from the position and the  
 ellipsoidal ht.  
 DH5786

DH5786.The Laplace correction was computed from DEFLEC99 derived  
 deflections.  
 DH5786

DH5786.The ellipsoidal height was determined by GPS observations  
 DH5786.and is referenced to NAD 83.  
 DH5786

DH5786.The geoid height was determined by GEOID03.  
 DH5786

| DH5786;         | North          | East        | Units | Scale      | Factor |
|-----------------|----------------|-------------|-------|------------|--------|
| Converg.        |                |             |       |            |        |
| DH5786;SPC AZ C | - 412,315.639  | 213,919.843 | MT    | 0.99990000 |        |
| +0 00 12.5      |                |             |       |            |        |
| DH5786;SPC AZ C | - 1,352,741.60 | 701,836.76  | iFT   | 0.99990000 |        |
| +0 00 12.5      |                |             |       |            |        |

ET0095 \*\*\*\*\*

ET0095 DESIGNATION - F 31

ET0095 PID - ET0095

ET0095 STATE/COUNTY- AZ/YAVAPAI

ET0095 USGS QUAD - COTTONWOOD (1973)

ET0095

ET0095 \*CURRENT SURVEY CONTROL

ET0095

ET0095\* NAD 83(1986)- 34 44 40. (N) 112 00 47. (W) SCALED

ET0095\* NAVD 88 - 1010.958 (meters) 3316.78 (feet) ADJUSTED

ET0095

ET0095 GEOID HEIGHT- -25.57 (meters) GEOID03

ET0095 DYNAMIC HT - 1009.690 (meters) 3312.62 (feet) COMP

ET0095 MODELED GRAV- 979,347.6 (mgal) NAVD 88

ET0095

ET0095 VERT ORDER - FIRST CLASS II

ET0095

ET0095.The horizontal coordinates were scaled from a topographic map and have

ET0095.an estimated accuracy of +/- 6 seconds.

ET0095

ET0095.The orthometric height was determined by differential leveling

ET0095.and adjusted by the National Geodetic Survey in June 1991.

ET0095

ET0095.The geoid height was determined by GEOID03.

ET0095

ET0095.The dynamic height is computed by dividing the NAVD 88

ET0095.geopotential number by the normal gravity value computed on the

ET0095.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

ET0095.degrees latitude (g = 980.6199 gals.).

ET0095

ET0095.The modeled gravity was interpolated from observed gravity values.

ET0095

ET0095; North East Units Estimated Accuracy

ET0095;SPC AZ C - 415,230. 204,530. MT (+/- 180 meters Scaled)

ET0095

ET0095 SUPERSEDED SURVEY CONTROL

ET0095

ET0095 NGVD 29 (1929) 1010.216 (m) 3314.35 (f) ADJ UNCH 1 2

ET0095

ET0095.Superseded values are not recommended for survey control.

ET0095.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

ET0095.See file dsdata.txt to determine how the superseded data were derived.

ET0095

ET0095\_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SVD072451(NAD 83)

ET0095\_MARKER: DB = BENCH MARK DISK

ET0095\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

ET0095\_STAMPING: 3314.350 F 31 1933

ET0095\_MARK LOGO: CGS

ET0095\_PROJECTION: PROJECTING 10 CENTIMETERS

ET0095\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

ET0095+STABILITY: SURFACE MOTION

ET0095\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

ET0095+SATELLITE: SATELLITE OBSERVATIONS - May 11, 2001

ET0095

ET0095 HISTORY - Date Condition Report By

ET0095 HISTORY - 1933 MONUMENTED CGS

ET0095 HISTORY - 1975 GOOD NGS

ET0095 HISTORY - 1982 GOOD NGS

ET0095 HISTORY - 19950426 GOOD USPSQD

ET0095 HISTORY - 20010511 GOOD NGS

ET0095

ET0090 \*\*\*\*\*

ET0090 DESIGNATION - X 28

ET0090 PID - ET0090

ET0090 STATE/COUNTY- AZ/YAVAPAI

ET0090 USGS QUAD - CLARKDALE (1973)

ET0090

ET0090 \*CURRENT SURVEY CONTROL

ET0090

ET0090\* NAD 83(1986)- 34 45 19. (N) 112 05 30. (W) SCALED

ET0090\* NAVD 88 - 1288.91 (+/-2cm) 4228.7 (feet) VERTCON

ET0090

ET0090 GEOID HEIGHT- -25.45 (meters) GEOID03

ET0090

ET0090 VERT ORDER - FIRST CLASS II (See Below)

ET0090

ET0090.The horizontal coordinates were scaled from a topographic map and have

ET0090.an estimated accuracy of +/- 6 seconds.

ET0090

ET0090.The NAVD 88 height was computed by applying the VERTCON shift value to

ET0090.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

ET0090.The vertical order pertains to the NGVD 29 superseded value.

ET0090

ET0090.The geoid height was determined by GEOID03.

ET0090

ET0090; North East Units Estimated Accuracy

ET0090;SPC AZ C - 416,440. 197,340. MT (+/- 180 meters Scaled)

ET0090

ET0090 SUPERSEDED SURVEY CONTROL

ET0090

ET0090 NGVD 29 (??/??/92) 1288.102 (m) 4226.05 (f) ADJ UNCH 1 2

ET0090

ET0090.Superseded values are not recommended for survey control.

ET0090.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

ET0090.See file dsdata.txt to determine how the superseded data were derived.

ET0090

ET0090\_U.S. NATIONAL GRID SPATIAL ADDRESS: 12SVD000464(NAD 83)

ET0090\_MARKER: DB = BENCH MARK DISK

ET0090\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

ET0090\_STAMPING: 4226.048 X 28 1933

ET0090\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

ET0090+STABILITY: SURFACE MOTION

ET0090\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

ET0090+SATELLITE: SATELLITE OBSERVATIONS - May 11, 2001

ET0090

ET0090 HISTORY - Date Condition Report By

ET0090 HISTORY - 1933 MONUMENTED CGS

ET0090 HISTORY - 20010511 GOOD NGS

ET0090

ET0090 STATION DESCRIPTION

ET0090

ET0090'DESCRIBED BY COAST AND GEODETIC SURVEY 1933

ET0090'3.0 MI E FROM JEROME.

ET0090'CONCRETE POST, AT SIDE OF PAVED HIGHWAY, SOUTH SLOPE OF RIDGE, IN

ET0090'SMALL GULCH, 65 FEET NORTH OF HIGHWAY CENTER-LINE.

ET0090

ET0090 STATION RECOVERY (2001)

ET0090

ET0090'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2001 (DW)

ET0090'STATION IS ALONG ROUTE AZ 89A (FORMER US 89A) AND ABOUT 5 M BEHIND A

ET0090'FENCE.





# Points

## Project : YAVAPAI COUNTY FLOOD CONTROL

|                          |                     |                        |                          |
|--------------------------|---------------------|------------------------|--------------------------|
| <b>User name</b>         | MMELWING            | <b>Date &amp; Time</b> | 2:54:46 PM<br>10/21/2007 |
| <b>Coordinate System</b> | US State Plane 1983 | <b>Zone</b>            | Arizona Central 0202     |
| <b>Project Datum</b>     | NAD 1983 (Conus)    |                        |                          |
| <b>Vertical Datum</b>    |                     | <b>Geoid Model</b>     | GO03AZ                   |
| <b>Coordinate Units</b>  | International feet  |                        |                          |
| <b>Distance Units</b>    | International feet  |                        |                          |
| <b>Height Units</b>      | International feet  |                        |                          |

---

### Point listing

| Name          | Northing    | Easting    | Elevation | Feature Code |
|---------------|-------------|------------|-----------|--------------|
| HILL TOP      | 1256787.558 | 593102.411 | 4953.484  |              |
| ROW MKR       | 1252881.787 | 594756.585 | 4837.856  |              |
| HACKELBERRY   | 1246686.187 | 598107.344 | 4662.881  |              |
| STACK         | 1236167.843 | 607032.222 | 4367.311  |              |
| TRUCK         | 1230678.959 | 612081.398 | 4249.742  |              |
| SLOPE         | 1227490.317 | 618268.403 | 4129.181  |              |
| CACTUS        | 1218230.847 | 628457.257 | 4000.528  |              |
| DEAD END      | 1214933.598 | 634044.500 | 3928.648  |              |
| BC N 1/16     | 1208527.857 | 641105.550 | 3738.000  |              |
| KINO          | 1199505.399 | 641310.958 | 3832.122  |              |
| CATTLE GAURD  | 1203833.263 | 648878.379 | 3610.843  |              |
| CLEAR CREEK   | 1283274.846 | 741745.683 | 3210.127  |              |
| VIEW          | 1283459.546 | 730371.151 | 3216.664  |              |
| ROW 768+40.67 | 1290486.250 | 725691.538 | 3155.600  |              |
| ROW 647+45.00 | 1294350.676 | 715520.921 | 3213.554  |              |
| ROW 0+0       | 1294666.801 | 705004.533 | 3467.154  |              |
| CARWASH       | 1297491.883 | 718379.121 | 3137.405  |              |
| TRANS BOX     | 1307851.221 | 718181.950 | 3227.324  |              |
| STAGE COACH   | 1318797.960 | 724271.385 | 3316.499  |              |
| POST OFFICE   | 1326136.402 | 739602.771 | 3519.658  |              |
| ROW 13+93.90  | 1342396.742 | 752368.177 | 3850.758  |              |
| PULL OUT      | 1336722.296 | 724225.762 | 3517.256  |              |
| TRAILHEAD     | 1343422.748 | 719703.901 | 3684.373  |              |
| BEAVER        | 1350935.933 | 729350.895 | 3713.919  |              |
| FIRE HYDRANT  | 1383586.281 | 735717.797 | 4068.939  |              |
| SET CAP       | 1395417.645 | 708292.591 | 4134.168  |              |
| CORN          | 1353900.762 | 692408.909 | 3580.508  |              |
| TURN          | 1343177.129 | 690054.618 | 3409.000  |              |
| DIRT          | 1356774.943 | 661890.974 | 3612.289  |              |
| RIVER         | 1375667.493 | 660406.589 | 3449.752  |              |

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# Points

## Project : YAVAPAI COUNTY FLOOD CONTROL

|                          |                     |                        |                          |
|--------------------------|---------------------|------------------------|--------------------------|
| <b>User name</b>         | MMELWING            | <b>Date &amp; Time</b> | 2:54:46 PM<br>10/21/2007 |
| <b>Coordinate System</b> | US State Plane 1983 | <b>Zone</b>            | Arizona Central 0202     |
| <b>Project Datum</b>     | NAD 1983 (Conus)    |                        |                          |
| <b>Vertical Datum</b>    |                     | <b>Geoid Model</b>     | GO03AZ                   |
| <b>Coordinate Units</b>  | International feet  |                        |                          |
| <b>Distance Units</b>    | International feet  |                        |                          |
| <b>Height Units</b>      | International feet  |                        |                          |

### Point listing

| Name          | Northing    | Easting    | Elevation | Feature Code |
|---------------|-------------|------------|-----------|--------------|
| HILL TOP      | 1256787.558 | 593102.411 | 4953.484  |              |
| ROW MKR       | 1252881.787 | 594756.585 | 4837.856  |              |
| HACKELBERRY   | 1246686.187 | 598107.344 | 4662.881  |              |
| STACK         | 1236167.843 | 607032.222 | 4367.311  |              |
| TRUCK         | 1230678.959 | 612081.398 | 4249.742  |              |
| SLOPE         | 1227490.317 | 618268.403 | 4129.181  |              |
| CACTUS        | 1218230.847 | 628457.257 | 4000.528  |              |
| DEAD END      | 1214933.598 | 634044.500 | 3928.648  |              |
| BC N 1/16     | 1208527.857 | 641105.550 | 3738.000  |              |
| KINO          | 1199505.399 | 641310.958 | 3832.122  |              |
| CATTLE GAURD  | 1203833.263 | 648878.379 | 3610.843  |              |
| CLEAR CREEK   | 1283274.846 | 741745.683 | 3210.127  |              |
| VIEW          | 1283459.546 | 730371.151 | 3216.664  |              |
| ROW 768+40.67 | 1290486.250 | 725691.538 | 3155.600  |              |
| ROW 647+45.00 | 1294350.676 | 715520.921 | 3213.554  |              |
| ROW 0+0       | 1294666.801 | 705004.533 | 3467.154  |              |
| CARWASH       | 1297491.883 | 718379.121 | 3137.405  |              |
| TRANS BOX     | 1307851.221 | 718181.950 | 3227.324  |              |
| STAGE COACH   | 1318797.960 | 724271.385 | 3316.499  |              |
| POST OFFICE   | 1326136.402 | 739602.771 | 3519.658  |              |
| ROW 13+93.90  | 1342396.742 | 752368.177 | 3850.758  |              |
| PULL OUT      | 1336722.296 | 724225.762 | 3517.256  |              |
| TRAILHEAD     | 1343422.748 | 719703.901 | 3684.373  |              |
| BEAVER        | 1350935.933 | 729350.895 | 3713.919  |              |
| FIRE HYDRANT  | 1383586.281 | 735717.797 | 4068.939  |              |
| SET CAP       | 1395417.645 | 708292.591 | 4134.168  |              |
| CORN          | 1353900.762 | 692408.909 | 3580.508  |              |
| TURN          | 1343177.129 | 690054.618 | 3409.000  |              |
| DIRT          | 1356774.943 | 661890.974 | 3612.289  |              |
| RIVER         | 1375667.493 | 660406.589 | 3449.752  |              |

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# Fixed width point lat/long/height listing

*Project : YAVAPAI COUNTY FLOOD CONTROL*

|                          |                                   |                        |                             |
|--------------------------|-----------------------------------|------------------------|-----------------------------|
| <b>User name</b>         | MMELWING                          | <b>Date &amp; Time</b> | 2:36:17 PM<br>10/21/2007    |
| <b>Coordinate System</b> | Projection from data<br>collector | <b>Zone</b>            | Zone from data<br>collector |
| <b>Project Datum</b>     | (WGS 84)                          |                        |                             |
| <b>Vertical Datum</b>    |                                   | <b>Geoid Model</b>     | AZ03                        |
| <b>Coordinate Units</b>  | International feet                |                        |                             |
| <b>Distance Units</b>    | International feet                |                        |                             |
| <b>Height Units</b>      | International feet                |                        |                             |

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## Point listing

| Name         | Latitude         | Longitude         | Height   | Feature Code |
|--------------|------------------|-------------------|----------|--------------|
| HILL TOP     | 34°27'14.47664"N | 112°16'16.60865"W | 4867.109 |              |
| ROW MKR      | 34°26'35.89603"N | 112°15'56.69349"W | 4751.368 |              |
| HACKELBERRY  | 34°25'34.71885"N | 112°15'16.43657"W | 4576.201 |              |
| STACK        | 34°23'50.94758"N | 112°13'29.50739"W | 4280.198 |              |
| TRUCK        | 34°22'56.79617"N | 112°12'29.06143"W | 4162.389 |              |
| SLOPE        | 34°22'25.42185"N | 112°11'15.13610"W | 4041.681 |              |
| CACTUS       | 34°20'54.07348"N | 112°09'13.31636"W | 3912.721 |              |
| DEAD END     | 34°20'21.57882"N | 112°08'06.59112"W | 3840.801 |              |
| BC N 1/16    | 34°19'18.35084"N | 112°06'42.23418"W | 3650.066 |              |
| KINO         | 34°17'49.09777"N | 112°06'39.57933"W | 3743.876 |              |
| CATTLE GAURD | 34°18'32.04622"N | 112°05'09.46117"W | 3522.921 |              |

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# Fixed width point lat/long/height listing

*Project : YAVAPAI COUNTY FLOOD CONTROL*

|                          |                                   |                        |                             |
|--------------------------|-----------------------------------|------------------------|-----------------------------|
| <b>User name</b>         | MMELWING                          | <b>Date &amp; Time</b> | 2:36:17 PM<br>10/21/2007    |
| <b>Coordinate System</b> | Projection from data<br>collector | <b>Zone</b>            | Zone from data<br>collector |
| <b>Project Datum</b>     | (WGS 84)                          |                        |                             |
| <b>Vertical Datum</b>    |                                   | <b>Geoid Model</b>     | AZ03                        |
| <b>Coordinate Units</b>  | International feet                |                        |                             |
| <b>Distance Units</b>    | International feet                |                        |                             |
| <b>Height Units</b>      | International feet                |                        |                             |

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## Point listing

| Name         | Latitude         | Longitude         | Height   | Feature Code |
|--------------|------------------|-------------------|----------|--------------|
| HILL TOP     | 34°27'14.47664"N | 112°16'16.60865"W | 4867.109 |              |
| ROW MKR      | 34°26'35.89603"N | 112°15'56.69349"W | 4751.368 |              |
| HACKELBERRY  | 34°25'34.71885"N | 112°15'16.43657"W | 4576.201 |              |
| STACK        | 34°23'50.94758"N | 112°13'29.50739"W | 4280.198 |              |
| TRUCK        | 34°22'56.79617"N | 112°12'29.06143"W | 4162.389 |              |
| SLOPE        | 34°22'25.42185"N | 112°11'15.13610"W | 4041.681 |              |
| CACTUS       | 34°20'54.07348"N | 112°09'13.31636"W | 3912.721 |              |
| DEAD END     | 34°20'21.57882"N | 112°08'06.59112"W | 3840.801 |              |
| BC N 1/16    | 34°19'18.35084"N | 112°06'42.23418"W | 3650.066 |              |
| KINO         | 34°17'49.09777"N | 112°06'39.57933"W | 3743.876 |              |
| CATTLE GAURD | 34°18'32.04622"N | 112°05'09.46117"W | 3522.921 |              |

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# Fixed width point lat/long/height listing

*Project : YAVAPAI COUNTY FLOOD CONTROL*

|                          |                     |                        |                          |
|--------------------------|---------------------|------------------------|--------------------------|
| <b>User name</b>         | MMELWING            | <b>Date &amp; Time</b> | 2:14:12 PM<br>10/21/2007 |
| <b>Coordinate System</b> | US State Plane 1983 | <b>Zone</b>            | Arizona Central 0202     |
| <b>Project Datum</b>     | (WGS 84)            |                        |                          |
| <b>Vertical Datum</b>    |                     | <b>Geoid Model</b>     | GO03AZ                   |
| <b>Coordinate Units</b>  | International feet  |                        |                          |
| <b>Distance Units</b>    | International feet  |                        |                          |
| <b>Height Units</b>      | International feet  |                        |                          |

---

## Point listing

| Name          | Latitude         | Longitude         | Height   | Feature Code |
|---------------|------------------|-------------------|----------|--------------|
| CLEAR CREEK   | 34°31'38.07090"N | 111°46'41.02146"W | 3125.402 |              |
| VIEW          | 34°31'40.03131"N | 111°48'56.97674"W | 3131.547 |              |
| ROW 768+40.67 | 34°32'49.58511"N | 111°49'52.84071"W | 3070.533 |              |
| ROW 647+45.00 | 34°33'27.88177"N | 111°51'54.41351"W | 3128.307 |              |
| ROW 0+0       | 34°33'31.04412"N | 111°54'00.15926"W | 3381.795 |              |
| CARWASH       | 34°33'58.94008"N | 111°51'20.21480"W | 3052.291 |              |
| TRANS BOX     | 34°35'41.41962"N | 111°51'22.49852"W | 3142.456 |              |
| STAGE COACH   | 34°37'29.66610"N | 111°50'09.54900"W | 3232.164 |              |
| POST OFFICE   | 34°38'42.10020"N | 111°47'05.96690"W | 3436.222 |              |
| ROW 13+93.90  | 34°41'22.75894"N | 111°44'32.83281"W | 3768.614 |              |
| PULL OUT      | 34°40'26.97850"N | 111°50'09.92345"W | 3433.505 |              |
| TRAILHEAD     | 34°41'33.29315"N | 111°51'04.01545"W | 3600.716 |              |
| BEAVER        | 34°42'47.53742"N | 111°49'08.39063"W | 3630.970 |              |
| FIRE HYDRANT  | 34°48'10.44894"N | 111°47'51.65531"W | 3987.797 |              |
| SET CAP       | 34°50'07.68270"N | 111°53'20.51217"W | 4052.499 |              |
| CORN          | 34°43'16.99745"N | 111°56'30.94653"W | 3496.538 |              |
| TURN          | 34°41'30.91073"N | 111°56'59.11033"W | 3324.622 |              |
| DIRT          | 34°43'45.20096"N | 112°02'36.61549"W | 3528.370 |              |
| RIVER         | 34°46'52.06837"N | 112°02'54.69807"W | 3366.369 |              |

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# Fixed width point lat/long/height listing

*Project : YAVAPAI COUNTY FLOOD CONTROL*

|                          |                     |                        |                          |
|--------------------------|---------------------|------------------------|--------------------------|
| <b>User name</b>         | MMELWING            | <b>Date &amp; Time</b> | 2:14:12 PM<br>10/21/2007 |
| <b>Coordinate System</b> | US State Plane 1983 | <b>Zone</b>            | Arizona Central 0202     |
| <b>Project Datum</b>     | (WGS 84)            |                        |                          |
| <b>Vertical Datum</b>    |                     | <b>Geoid Model</b>     | GO03AZ                   |
| <b>Coordinate Units</b>  | International feet  |                        |                          |
| <b>Distance Units</b>    | International feet  |                        |                          |
| <b>Height Units</b>      | International feet  |                        |                          |

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## Point listing

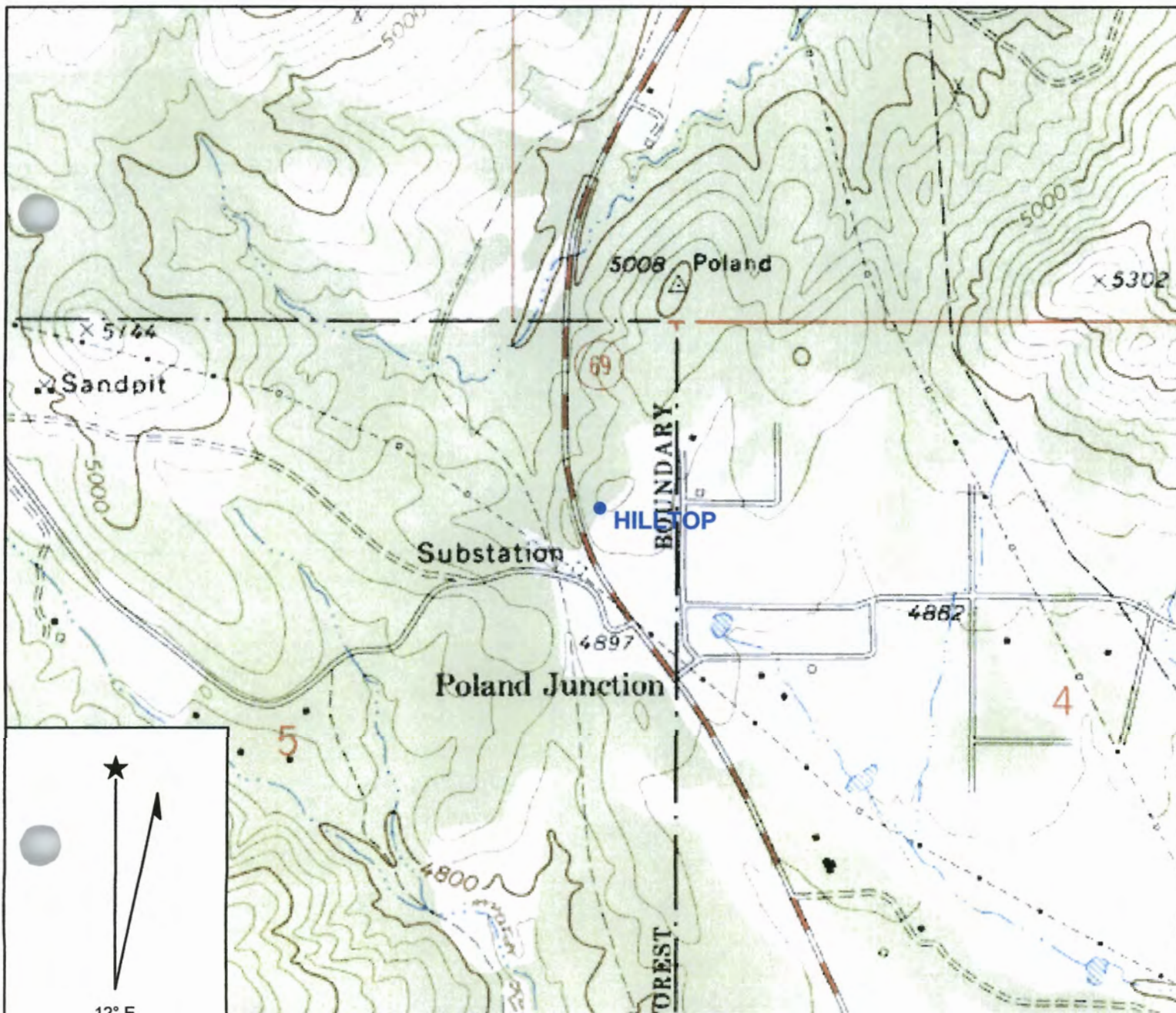
| Name          | Latitude         | Longitude         | Height   | Feature Code |
|---------------|------------------|-------------------|----------|--------------|
| CLEAR CREEK   | 34°31'38.07090"N | 111°46'41.02146"W | 3125.402 |              |
| VIEW          | 34°31'40.03131"N | 111°48'56.97674"W | 3131.547 |              |
| ROW 768+40.67 | 34°32'49.58511"N | 111°49'52.84071"W | 3070.533 |              |
| ROW 647+45.00 | 34°33'27.88177"N | 111°51'54.41351"W | 3128.307 |              |
| ROW 0+0       | 34°33'31.04412"N | 111°54'00.15926"W | 3381.795 |              |
| CARWASH       | 34°33'58.94008"N | 111°51'20.21480"W | 3052.291 |              |
| TRANS BOX     | 34°35'41.41962"N | 111°51'22.49852"W | 3142.456 |              |
| STAGE COACH   | 34°37'29.66610"N | 111°50'09.54900"W | 3232.164 |              |
| POST OFFICE   | 34°38'42.10020"N | 111°47'05.96690"W | 3436.222 |              |
| ROW 13+93.90  | 34°41'22.75894"N | 111°44'32.83281"W | 3768.614 |              |
| PULL OUT      | 34°40'26.97850"N | 111°50'09.92345"W | 3433.505 |              |
| TRAILHEAD     | 34°41'33.29315"N | 111°51'04.01545"W | 3600.716 |              |
| BEAVER        | 34°42'47.53742"N | 111°49'08.39063"W | 3630.970 |              |
| FIRE HYDRANT  | 34°48'10.44894"N | 111°47'51.65531"W | 3987.797 |              |
| SET CAP       | 34°50'07.68270"N | 111°53'20.51217"W | 4052.499 |              |
| CORN          | 34°43'16.99745"N | 111°56'30.94653"W | 3496.538 |              |
| TURN          | 34°41'30.91073"N | 111°56'59.11033"W | 3324.622 |              |
| DIRT          | 34°43'45.20096"N | 112°02'36.61549"W | 3528.370 |              |
| RIVER         | 34°46'52.06837"N | 112°02'54.69807"W | 3366.369 |              |

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RST LANDSURVEYING INC.

| NAME    | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|---------|--------|------------------|-------------------|-------------------|
| HILLTOP | WGS84  | 34°27'14.47664"N | 112°16'16.60865"W | 4867.109          |
|         |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| HILLTOP | NAD83  | 1256787.558      | 593102.411        | 4953.484          |

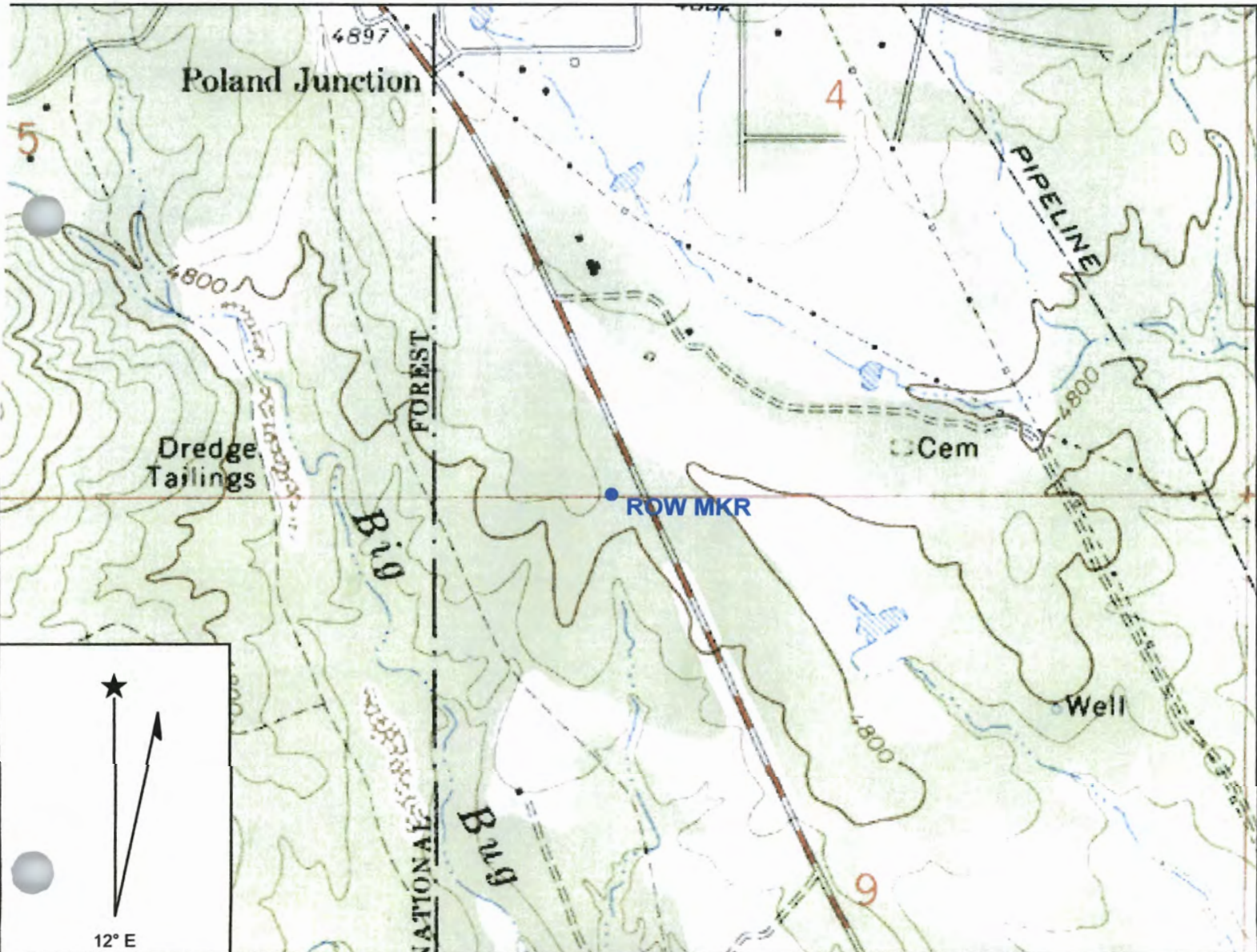
3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +- EAST FROM BARB WIRE FENCE.



RST LANDSURVEYING INC.

| NAME    | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|---------|--------|------------------|-------------------|-------------------|
| ROW MKR | WGS84  | 34°26'35.89603"N | 112°15'56.69349"W | 4751.368          |
|         |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| ROW MKR | NAD83  | 1252881.787      | 594756.585        | 4837.856          |

3" ALUM. CAP IN CONCRETE (HIGHWAY RIGHT OF WAY MONUMENT)

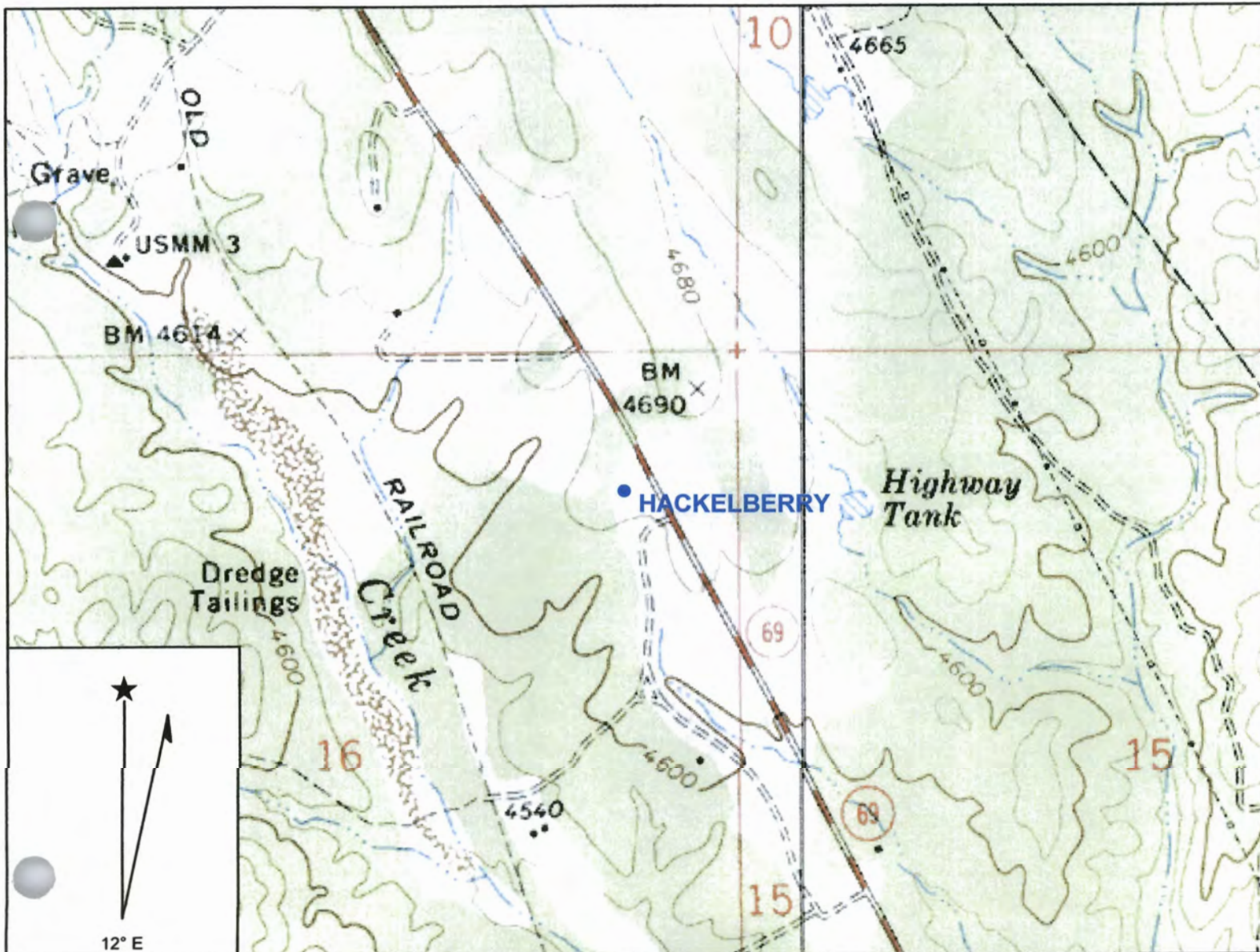




RST LANDSURVEYING INC.

| NAME        | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|-------------|--------|------------------|-------------------|-------------------|
| HACKELBERRY | WGS84  | 34°25'34.71885"N | 112°15'16.43657"W | 4576.201          |
|             |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| HACKELBERRY | NAD83  | 1246686.187      | 598107.344        | 4662.881          |

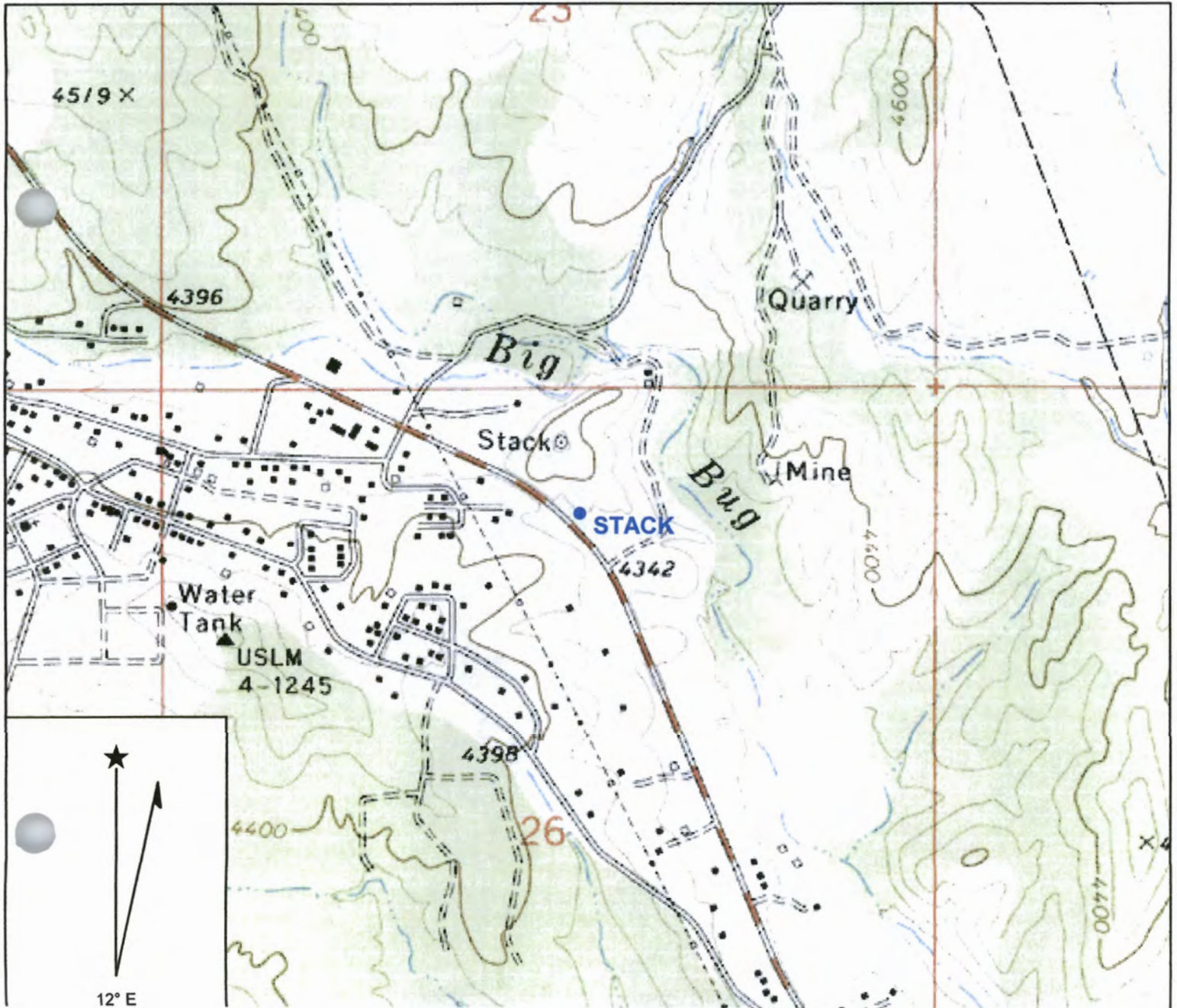
3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +/- EAST FROM BARB WIRE FENCE. NORTHWEST OFF HACKELBERRY ROAD.



RST LANDSURVEYING INC.

| NAME  | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|-------|--------|------------------|-------------------|-------------------|
| STACK | WGS84  | 34°23'50.94758"N | 112°13'29.50739"W | 4280.198          |
|       |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| STACK | NAD83  | 1236167.843      | 607032.222        | 4367.311          |

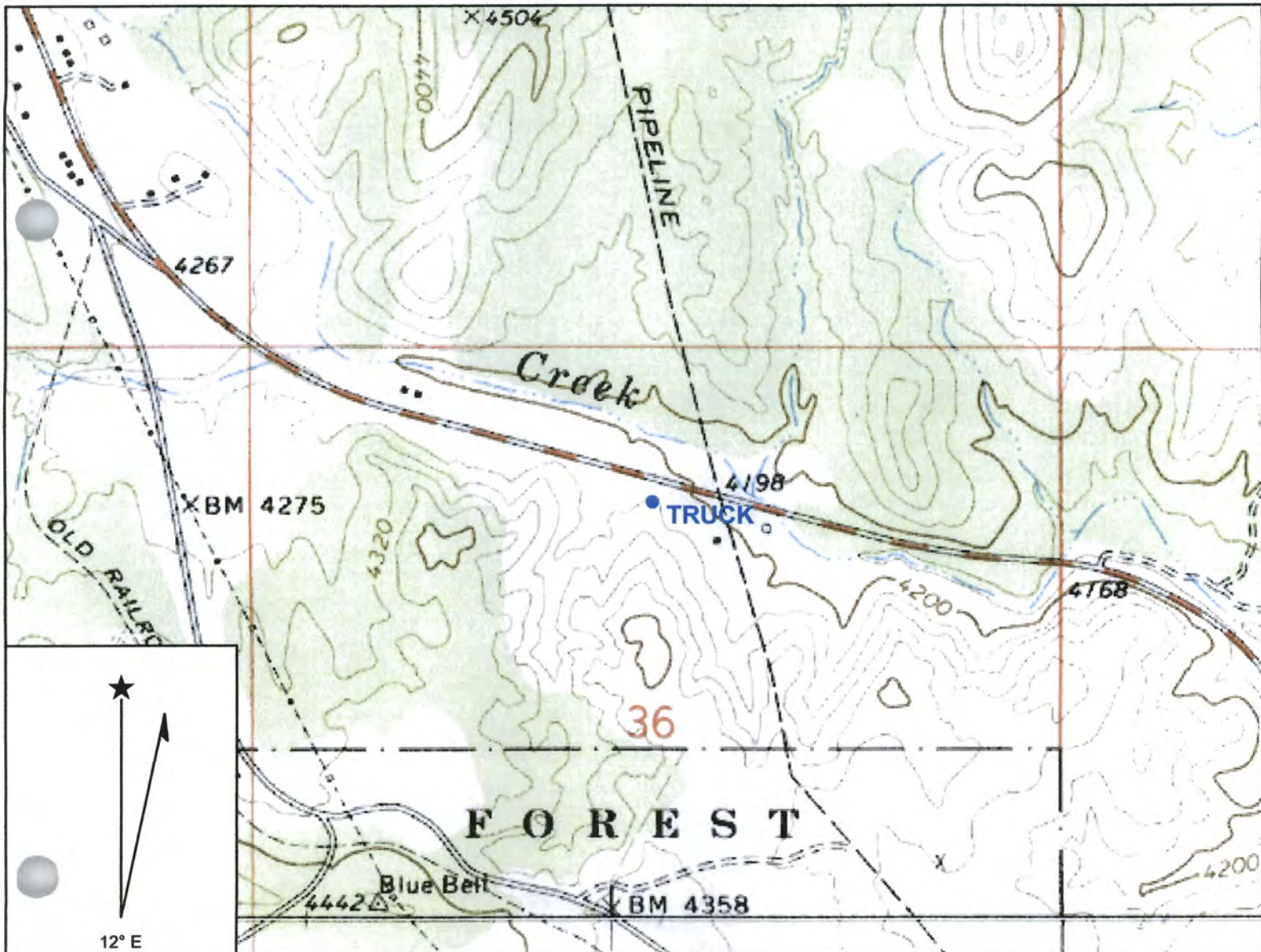
3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +-  
SOUTHWEST FROM BARB WIRE FENCE.



RST LANDSURVEYING INC.

| NAME  | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|-------|--------|------------------|-------------------|-------------------|
| TRUCK | WGS84  | 34°22'56.79617"N | 112°12'29.06143"W | 4162.389          |
|       |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| TRUCK | NAD83  | 1230678.959      | 612081.398        | 4249.742          |

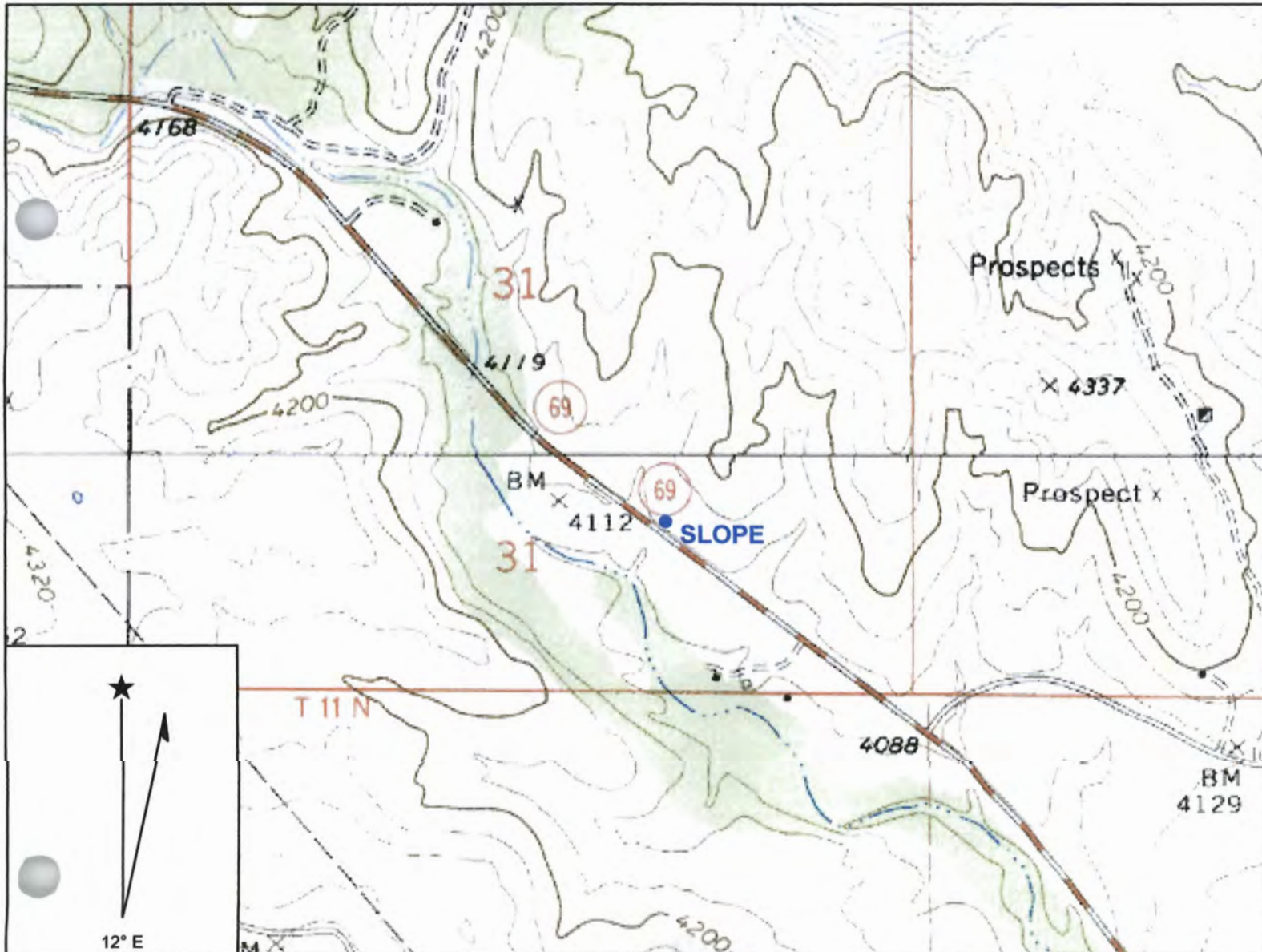
3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +/- NORTH FROM BARB WIRE FENCE ON TOP OF HILL.



RST LANDSURVEYING INC.

| NAME  | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|-------|--------|------------------|-------------------|-------------------|
| SLOPE | WGS84  | 34°22'25.42185"N | 112°11'15.13610"W | 4041.681          |
|       |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| SLOPE | NAD83  | 1227490.317      | 618268.403        | 4129.181          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +/-  
SOUTHWEST FROM BARB WIRE FENCE ON TOP OF HILL.

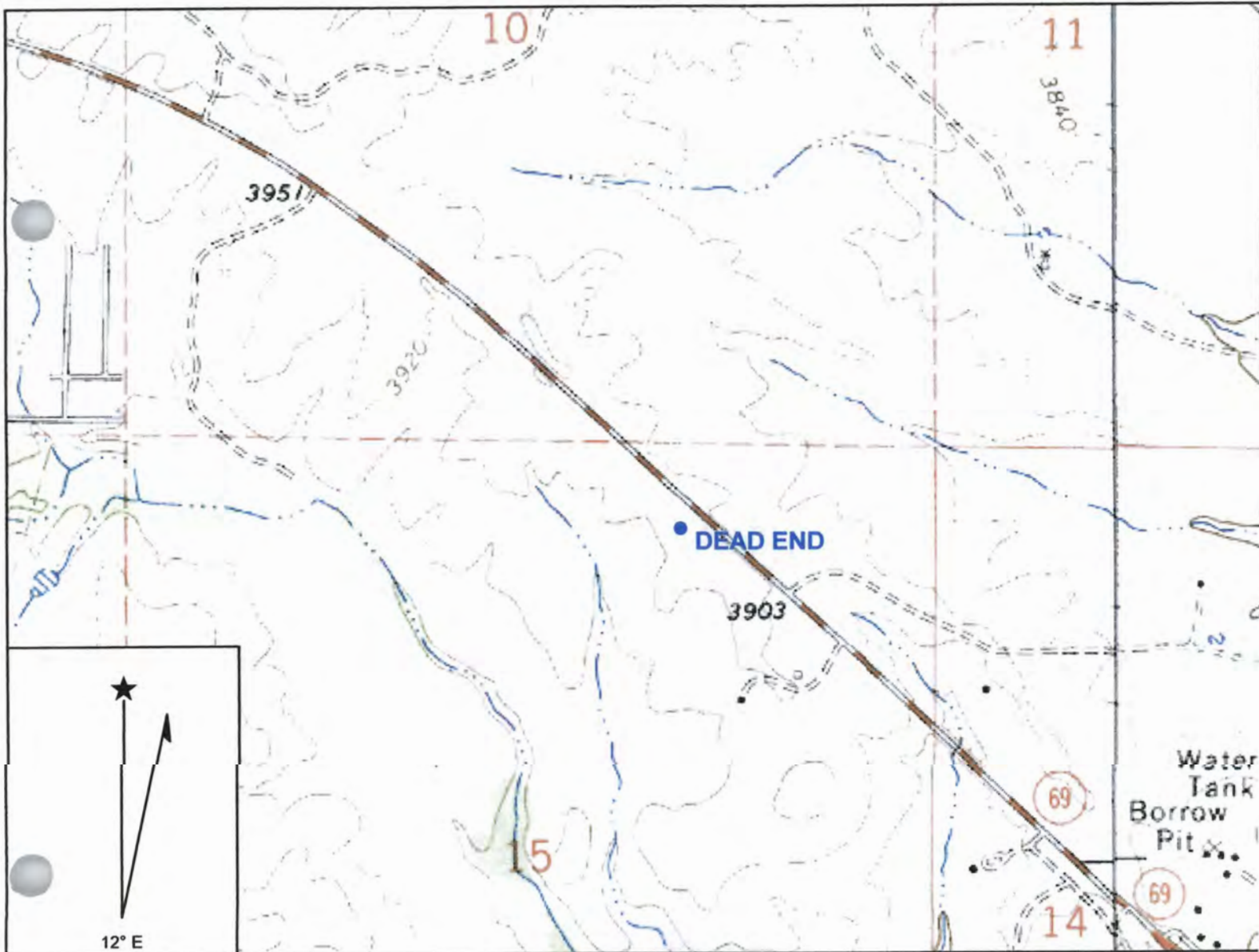




RST LANDSURVEYING INC.

| NAME     | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|----------|--------|------------------|-------------------|-------------------|
| DEAD END | WGS84  | 34°20'21.57882"N | 112°08'06.59112"W | 3840.801          |
|          |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| DEAD END | NAD83  | 1214933.598      | 634044.500        | 3928.648          |

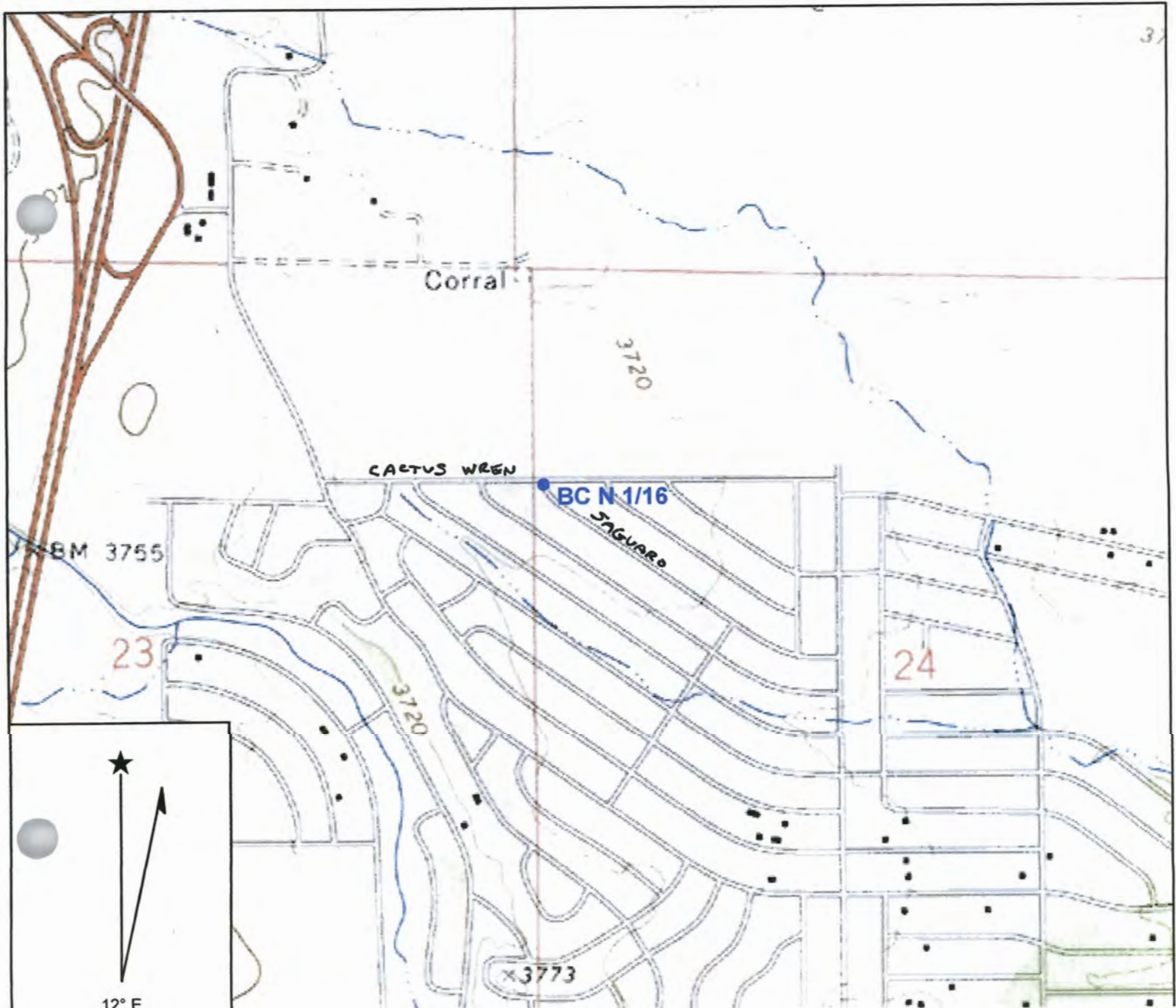
3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +/-  
NORTHEAST FROM BARB WIRE FENCE.



RST LANDSURVEYING INC.

| NAME      | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|-----------|--------|------------------|-------------------|-------------------|
| BC N 1/16 | WGS84  | 34°19'18.35084"N | 112°06'42.23418"W | 3650.066          |
|           |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| BC N 1/16 | NAD83  | 1208527.857      | 641105.550        | 3738.000          |

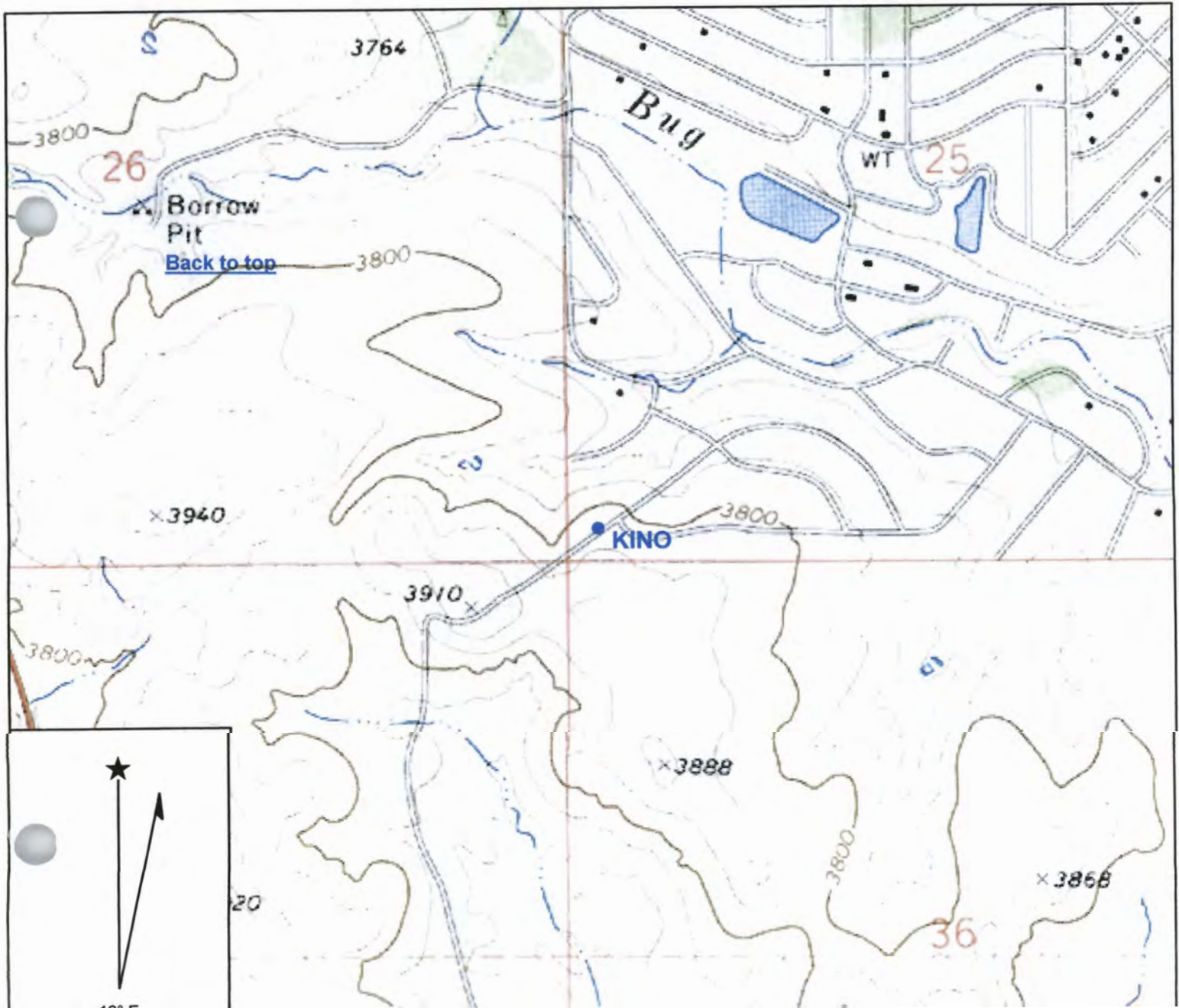
GLO BRASS CAP NORTH 10' +/- FROM SHOULDER OF (CACTUS WREN DRIVE) IN CORDES JUNCTION.



RST LANDSURVEYING INC.

| NAME | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|------|--------|------------------|-------------------|-------------------|
| KINO | WGS84  | 34°17'49.09777"N | 112°06'39.57933"W | 3743.876          |
|      |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| KINO | NAD83  | 1199505.399      | 641310.958        | 3832.122          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) LOCATED IN THE INTERSECTION OF TONELEA TRAIL & KINO DRIVE IN CORDES JUNCTION.

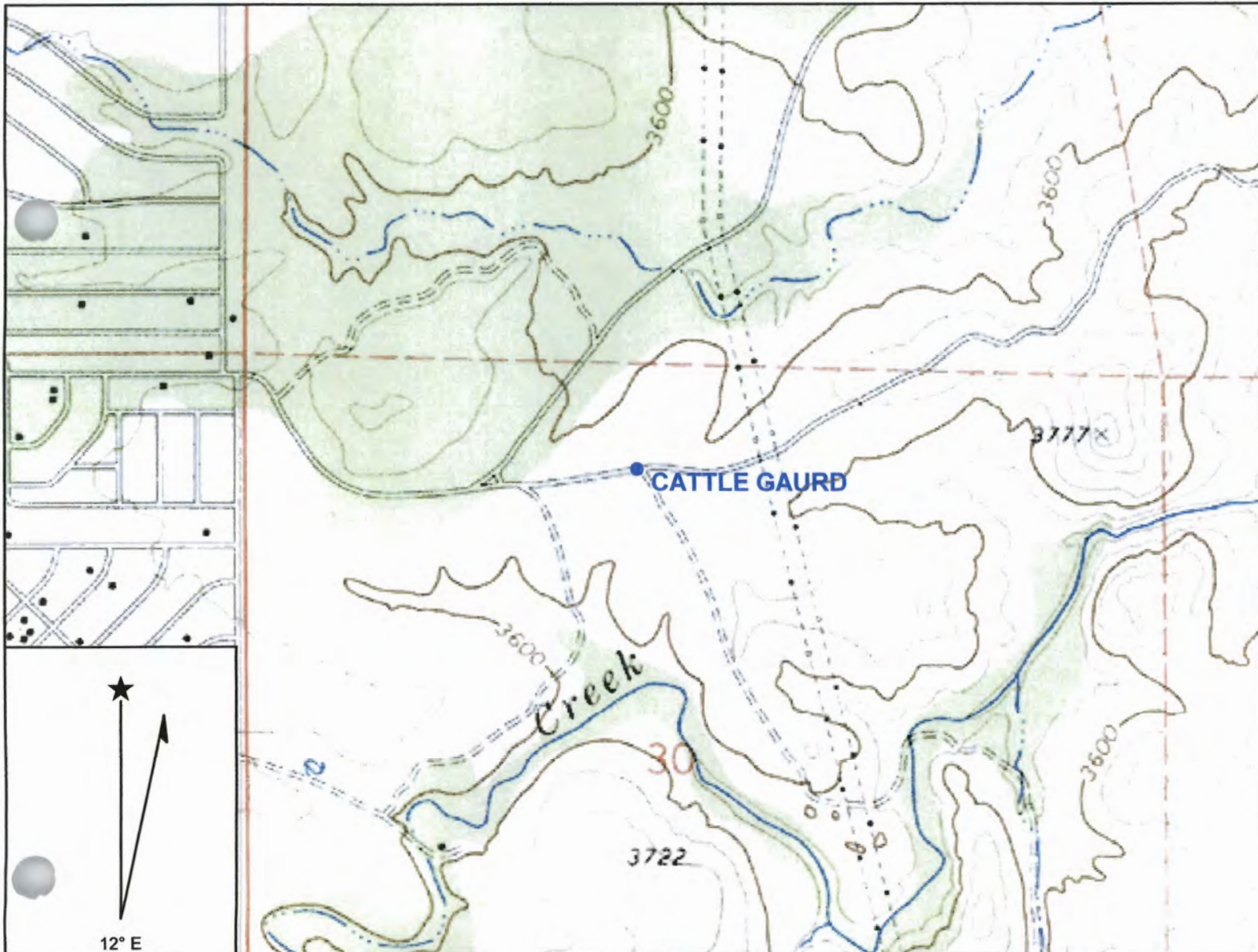




RST LANDSURVEYING INC.

| NAME         | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|--------------|--------|------------------|-------------------|-------------------|
| CATTLE GAURD | WGS84  | 34°18'32.04622"N | 112°05'09.46117"W | 3522.921          |
|              |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| CATTLE GAURD | NAD83  | 1203833.263      | 648878.379        | 3610.843          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +/- EAST FROM BARB WIRE FENCE NORTH OF CATTLE GUARD ON (KELTON RANCH ROAD.)

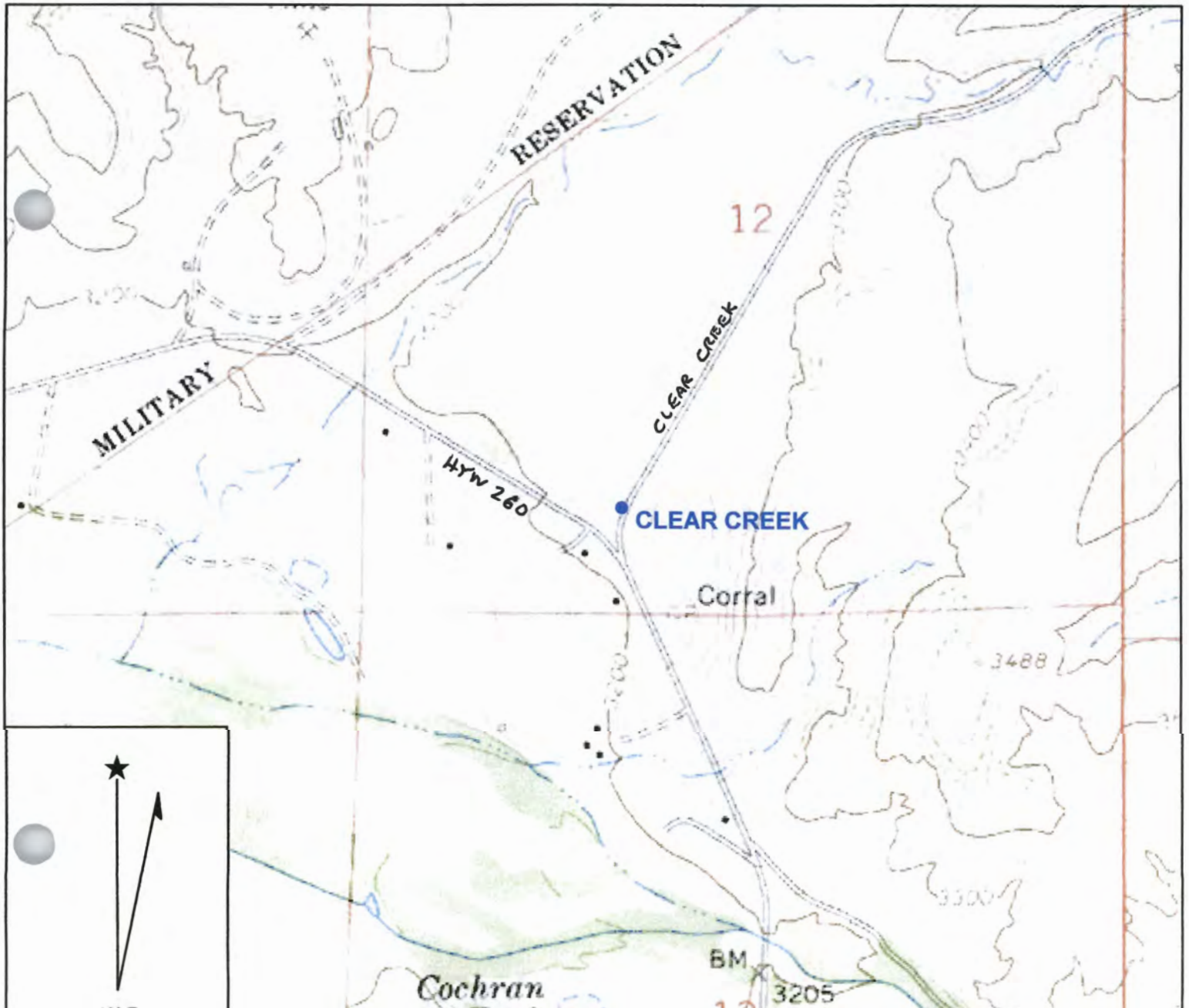


RST LANDSURVEYING INC.

| NAME        | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT   |
|-------------|--------|------------------|-------------------|----------|
| CLEAR CREEK | WGS84  | 34°31'38.07090"N | 111°46'41.02146"W | 3125.402 |

|             |       | NORTHING    | EASTING    | ELEVATION NAVD 88 |
|-------------|-------|-------------|------------|-------------------|
| CLEAR CREEK | NAD83 | 1283274.846 | 741745.683 | 3210.127          |

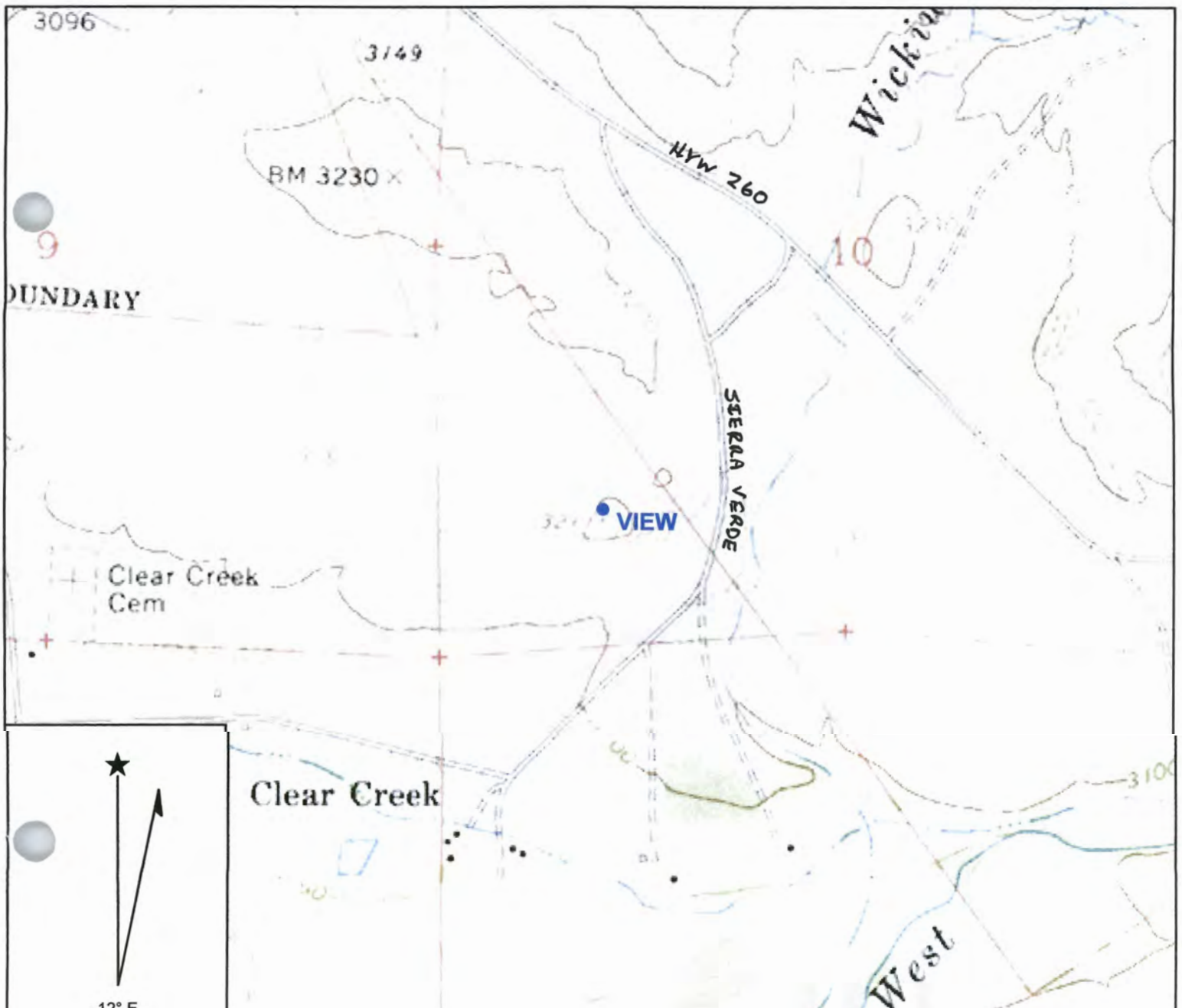
3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) LOCATED OFF HIGHWAY 260 ON THE CLEAR CREEK TURN OFF. 3' +/- FROM BARB WIRE FENCE AT MILE ROCK RANCH GATE.



RST LANDSURVEYING INC.

| NAME | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|------|--------|------------------|-------------------|-------------------|
| VIEW | WGS84  | 34°31'40.03131"N | 111°48'56.97674"W | 3131.547          |
|      |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| VIEW | NAD83  | 1283459.546      | 730371.151        | 3216.664          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) LOCATED OFF HIGHWAY 260 ON THE SIERRA VERDE TURN OFF ON TOP OF HILL.

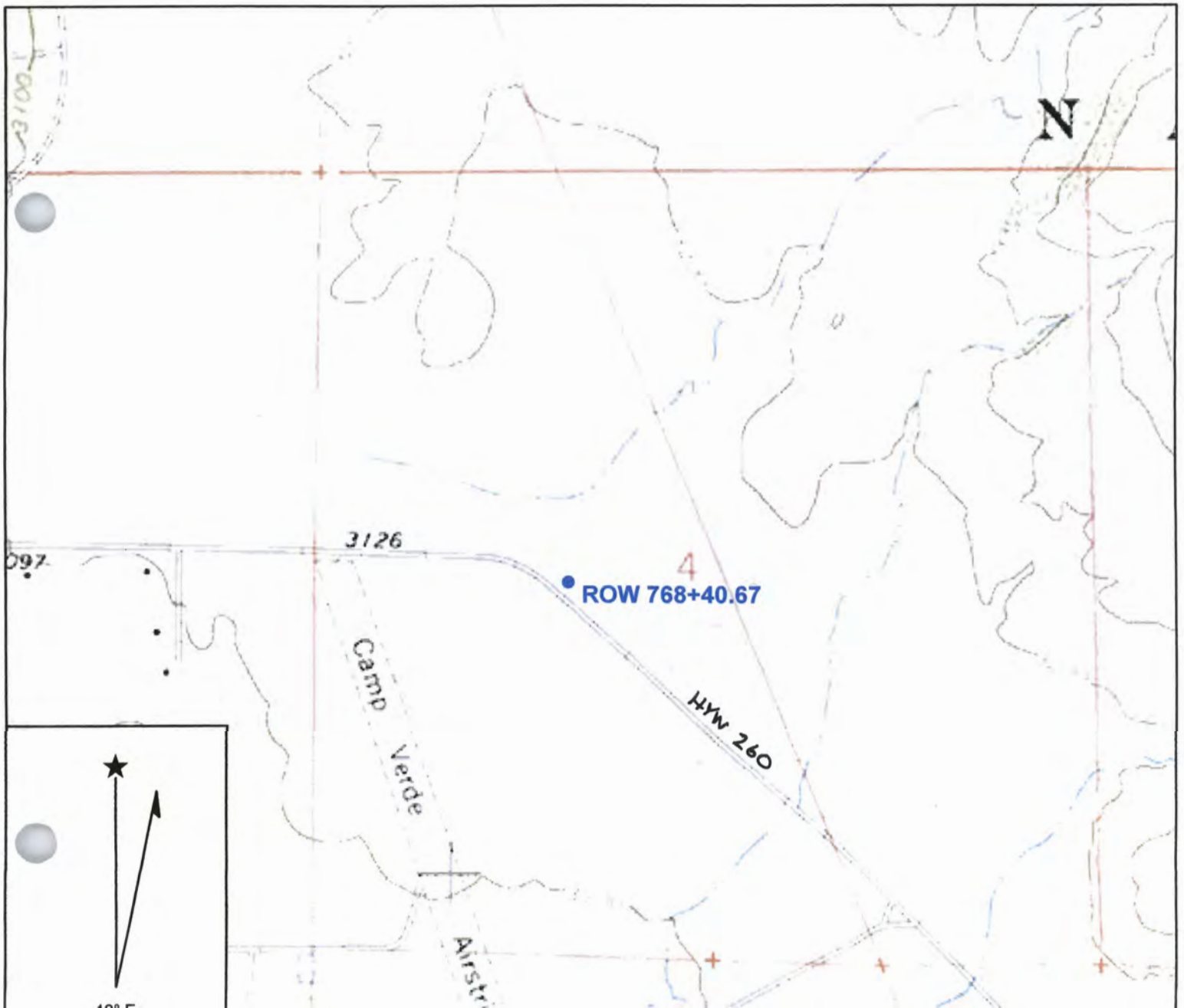


RST LANDSURVEYING INC.

| NAME          | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT   |
|---------------|--------|------------------|-------------------|----------|
| ROW 768+40.67 | WGS84  | 34°32'49.58511"N | 111°49'52.84071"W | 3070.533 |

|               |       | NORTHING    | EASTING    | ELEVATION NAVD 88 |
|---------------|-------|-------------|------------|-------------------|
| ROW 768+40.67 | NAD83 | 1290486.250 | 725691.538 | 3155.600          |

ROW MARKER STA 768+40.67 SOUTHWEST OF BARB WIRE FENCE.

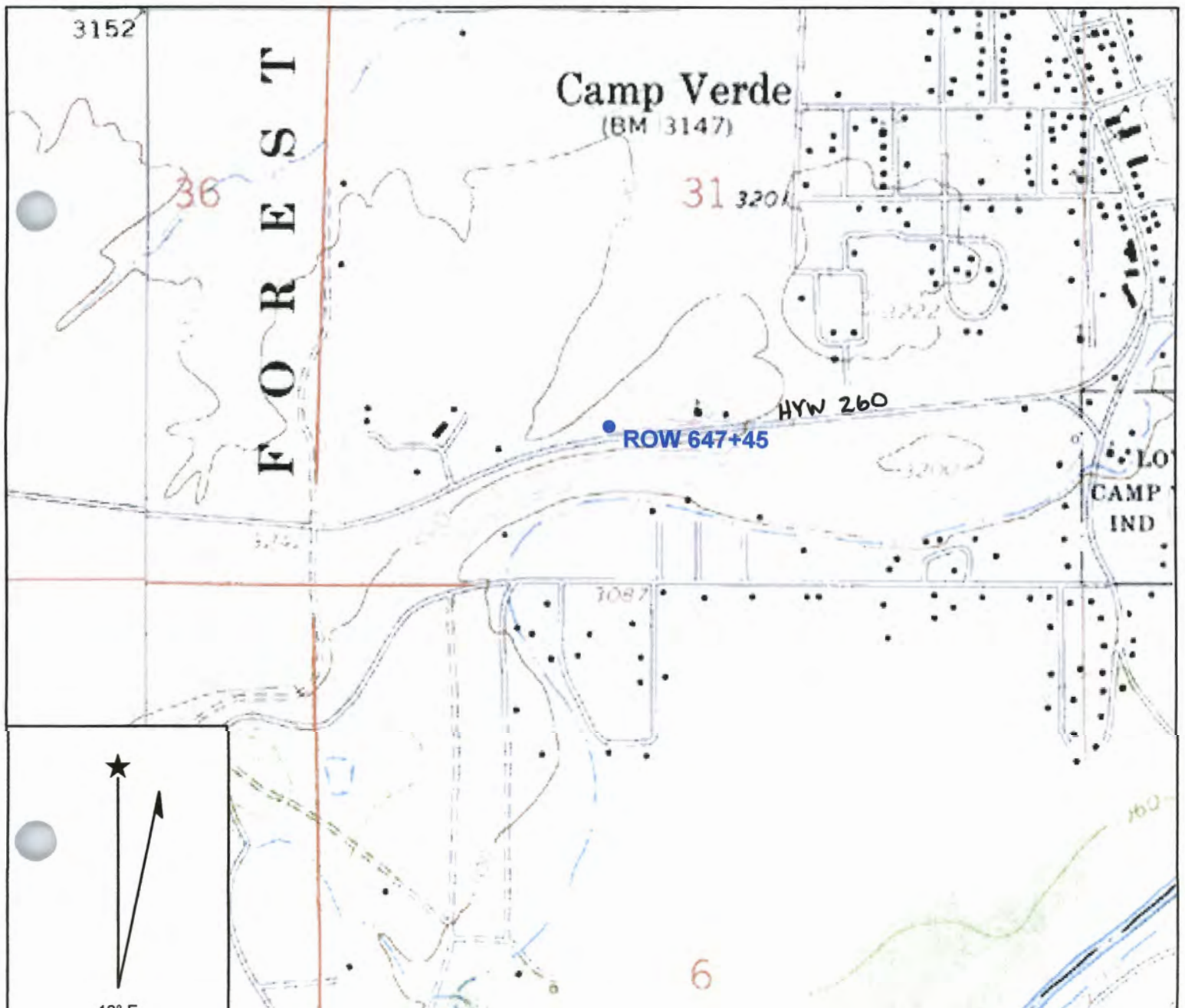


RST LANDSURVEYING INC.

| NAME          | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT   |
|---------------|--------|------------------|-------------------|----------|
| ROW 647+45.00 | WGS84  | 34°33'27.88177"N | 111°51'54.41351"W | 3128.307 |

|               |       | NORTHING    | EASTING    | ELEVATION NAVD 88 |
|---------------|-------|-------------|------------|-------------------|
| ROW 647+45.00 | NAD83 | 1294350.676 | 715520.921 | 3213.554          |

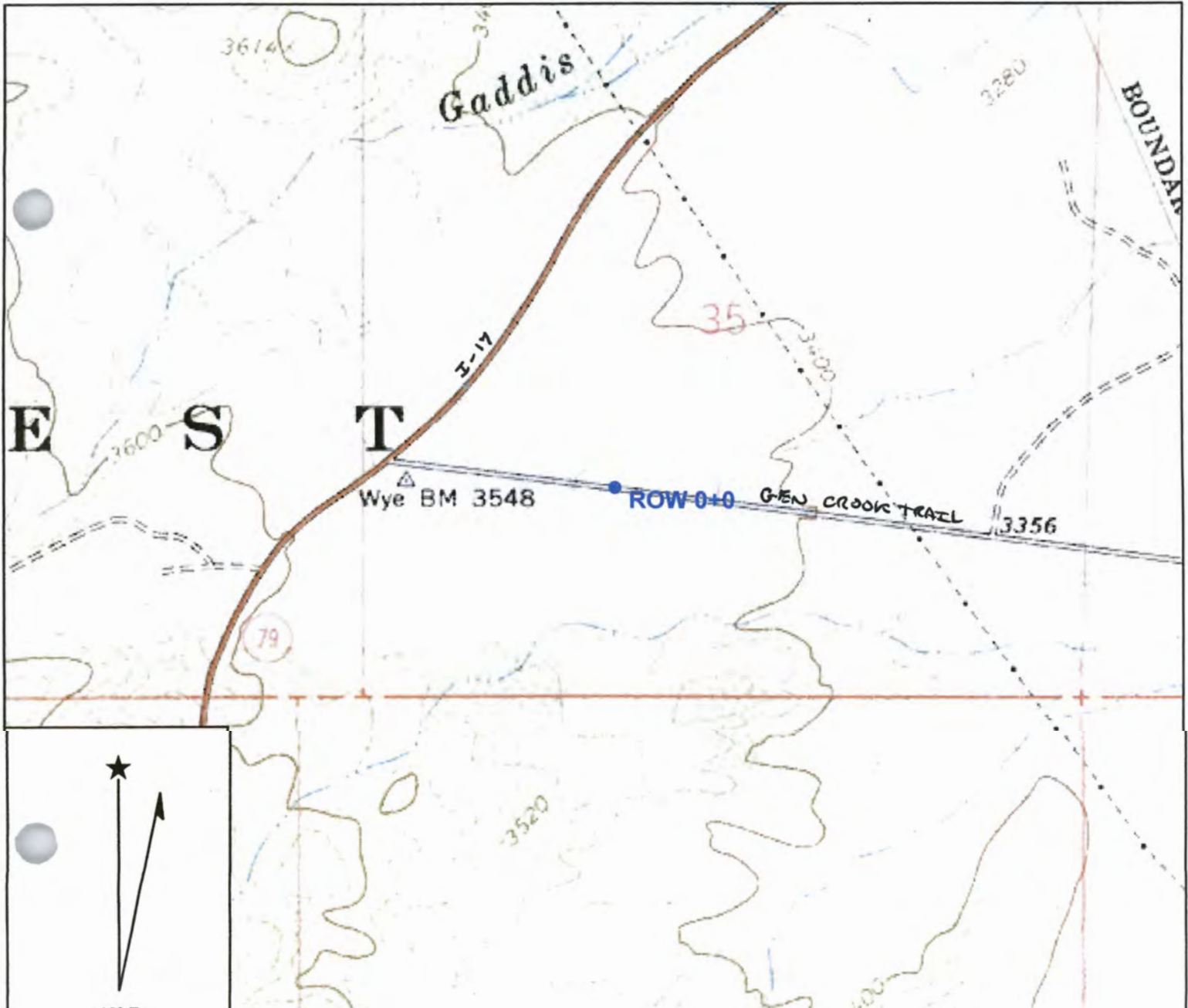
ROW MARKER STA 647+45.00 SOUTH OF BARB WIRE FENCE.



RST LANDSURVEYING INC.

| NAME    | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|---------|--------|------------------|-------------------|-------------------|
| ROW 0+0 | WGS84  | 34°33'31.04412"N | 111°54'00.15926"W | 3381.795          |
|         |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| ROW 0+0 | NAD83  | 1294666.801      | 705004.533        | 3467.154          |

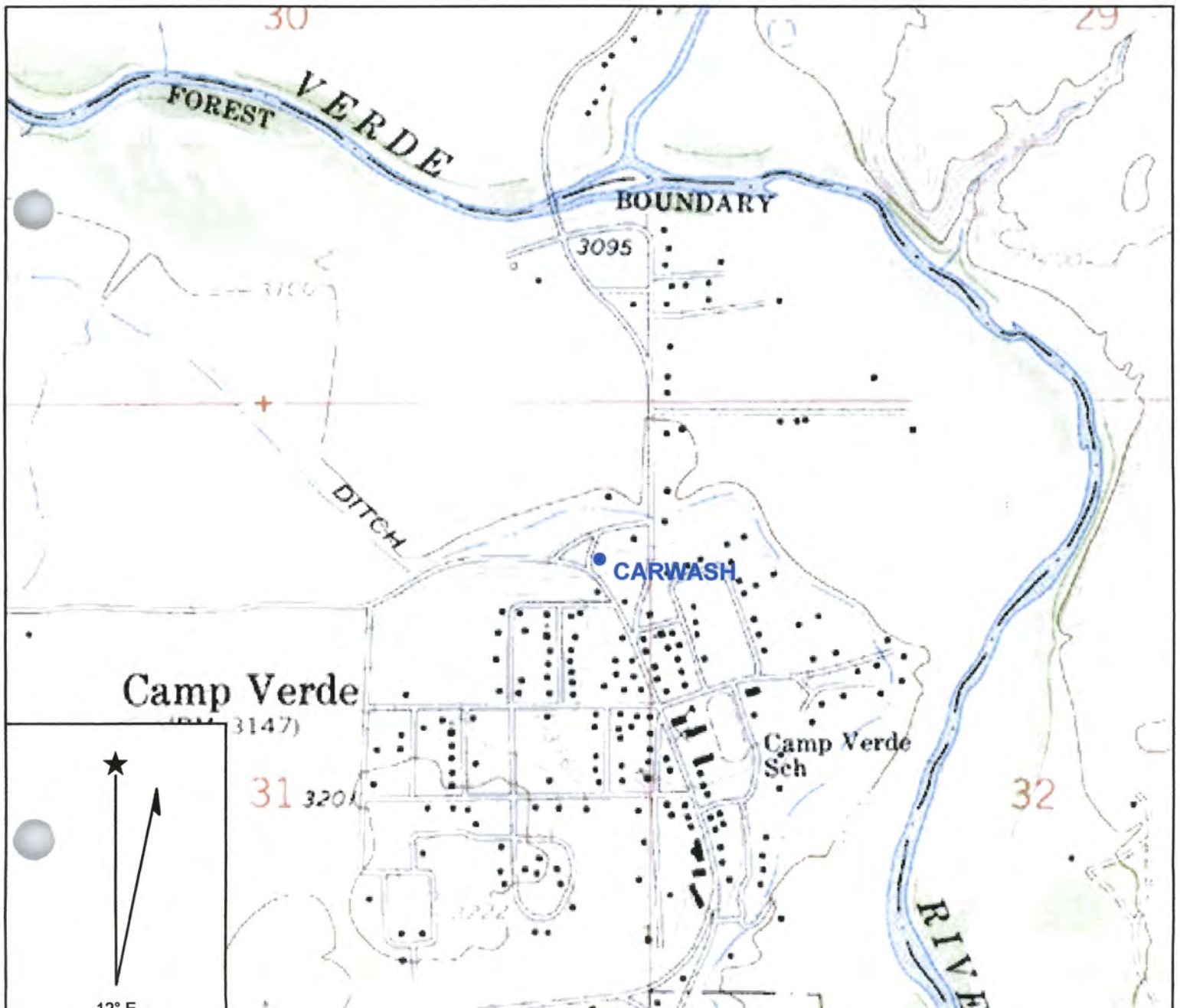
ROW MARKER STA 0+0 NORTH OF BARB WIRE FENCE ON SOUTH SIDE OF GEN CROOK TRAIL.



RST LANDSURVEYING INC.

| NAME    | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|---------|--------|------------------|-------------------|-------------------|
| CARWASH | WGS84  | 34°33'58.94008"N | 111°51'20.21480"W | 3052.291          |
|         |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| CARWASH | NAD83  | 1297491.883      | 718379.121        | 3137.405          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) WEST OF THE RAINTUNNEL CARWASH .

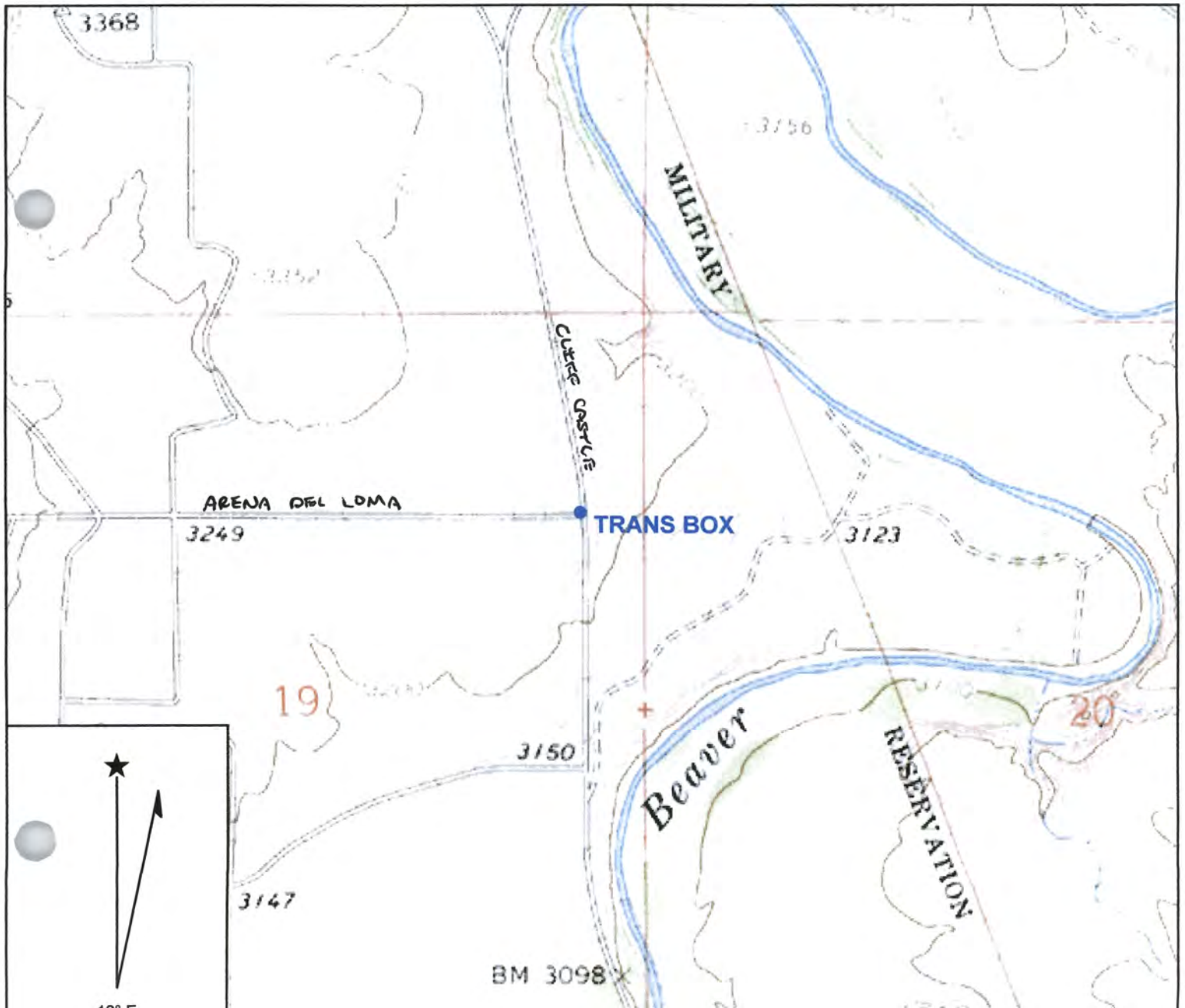


RST LANDSURVEYING INC.

| NAME      | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT   |
|-----------|--------|------------------|-------------------|----------|
| TRANS BOX | WGS84  | 34°35'41.41962"N | 111°51'22.49852"W | 3142.456 |

|           |       | NORTHING    | EASTING    | ELEVATION NAVD 88 |
|-----------|-------|-------------|------------|-------------------|
| TRANS BOX | NAD83 | 1307851.221 | 718181.950 | 3227.324          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861)  
 SOUTHWEST CORNER OF CLIFF CASTLE ROAD & ARENA DEL LOMA 10' +/- FROM TRANSFORMER BOX.



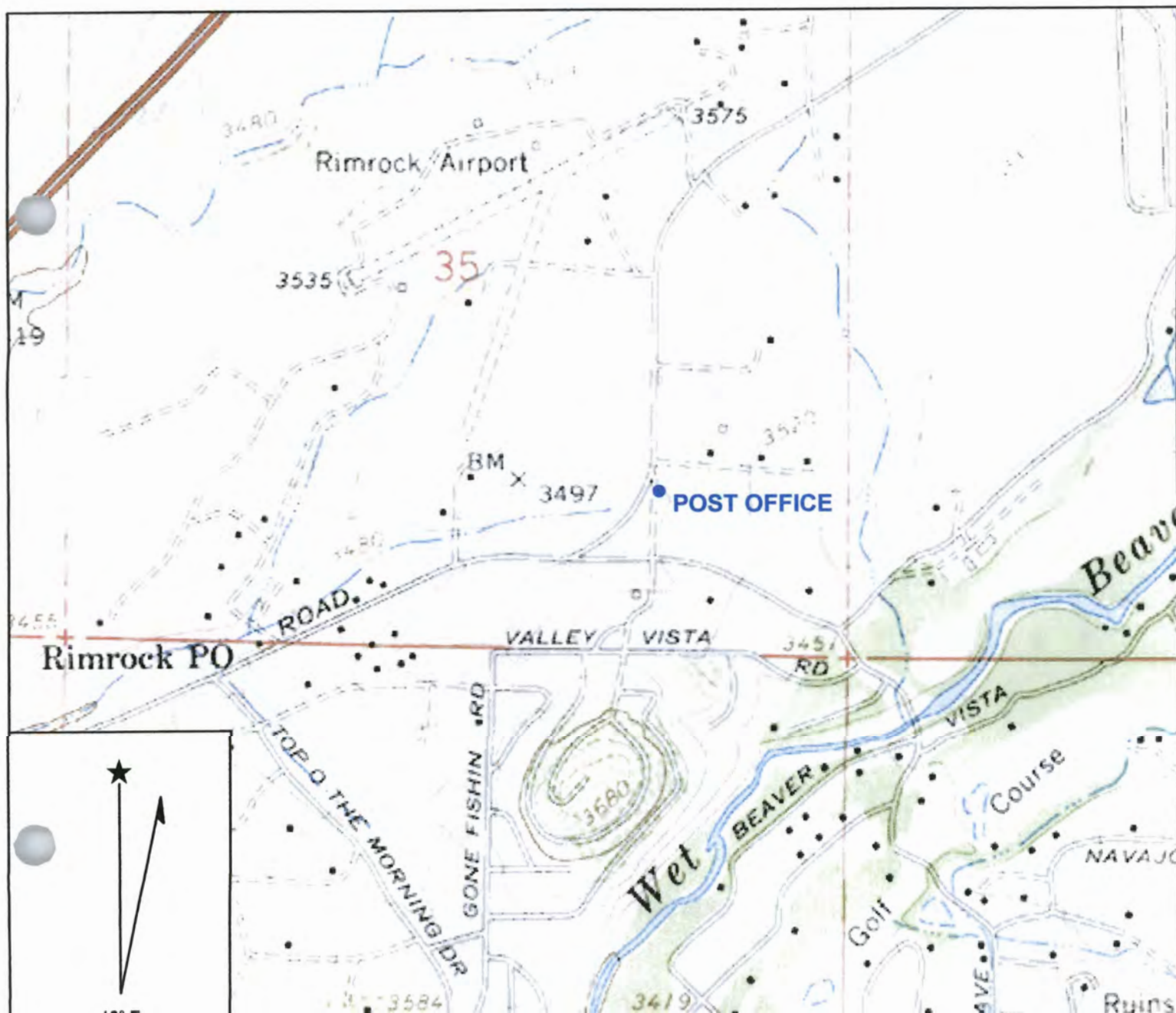




RST LANDSURVEYING INC.

| NAME        | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|-------------|--------|------------------|-------------------|-------------------|
| POST OFFICE | WGS84  | 34°38'42.10020"N | 111°47'05.96690"W | 3436.222          |
|             |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| POST OFFICE | NAD83  | 1326136.402      | 739602.771        | 3519.658          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) IN THE WEST ISLAND AT THE POST OFFICE OFF MONTEZUMAS WELL RD.

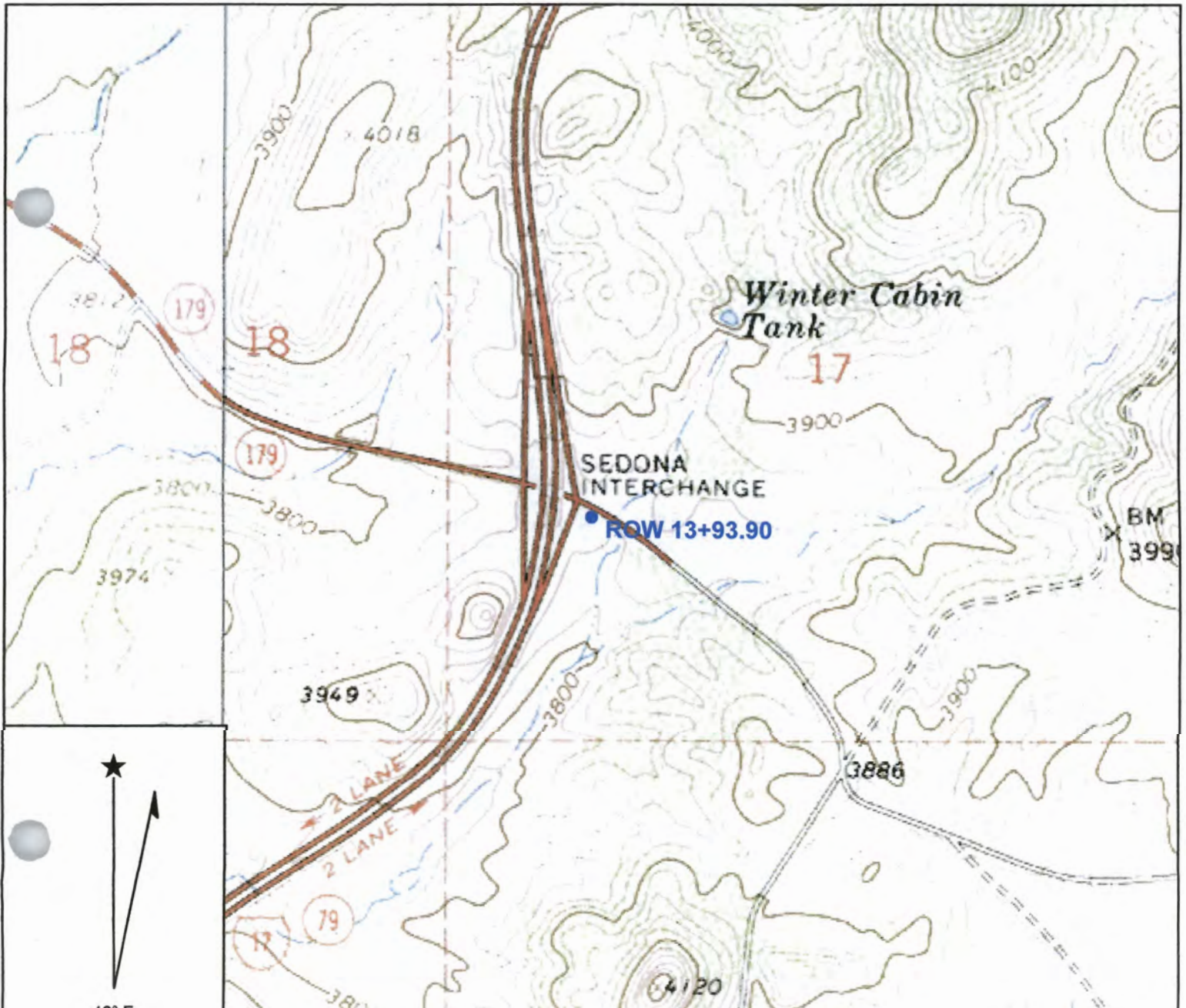


RST LANDSURVEYING INC.

| NAME        | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT   |
|-------------|--------|------------------|-------------------|----------|
| ROW13+93.90 | WGS84  | 34°41'22.75894"N | 111°44'32.83281"W | 3768.614 |

|             |       | NORTHING    | EASTING    | ELEVATION NAVD 88 |
|-------------|-------|-------------|------------|-------------------|
| ROW13+93.90 | NAD83 | 1342396.742 | 752368.177 | 3850.758          |

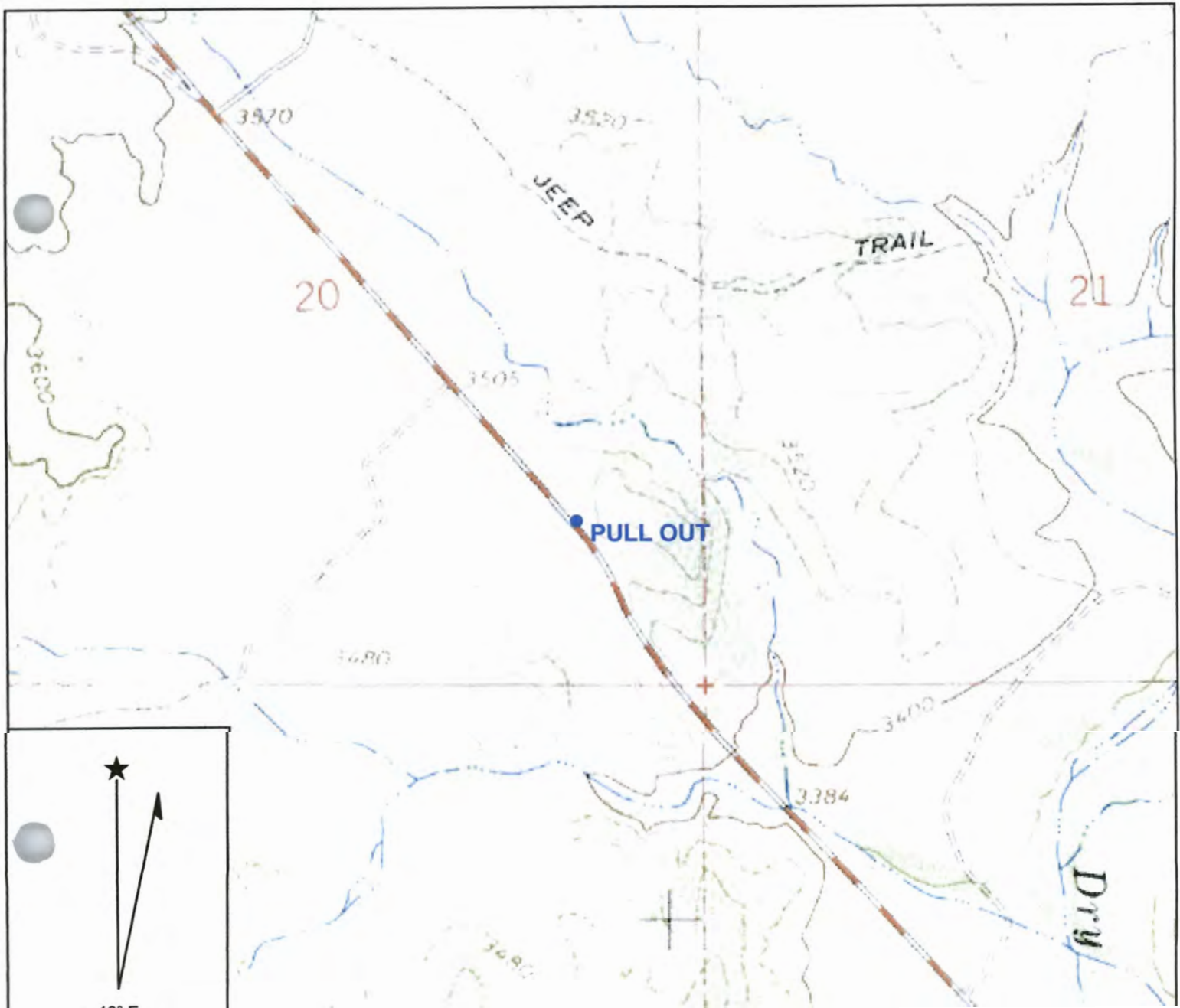
ROW MARKER 13+93.90 AT THE SOUTHEAST CORNER AT I-17 & STATE HIGHWAY 179 1' +/- EAST FROM FENCE AT THE INTERCHANGE.



RST LANDSURVEYING INC.

| NAME     | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|----------|--------|------------------|-------------------|-------------------|
| PULL OUT | WGS84  | 34°40'26.97850"N | 111°50'09.92345"W | 3433.505          |
|          |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| PULL OUT | NAD83  | 1336722.296      | 724225.762        | 3517.256          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +/-  
SOUTHWEST FROM BARB WIRE FENCE ON TOP OF HILL AT THE PULL OUT.

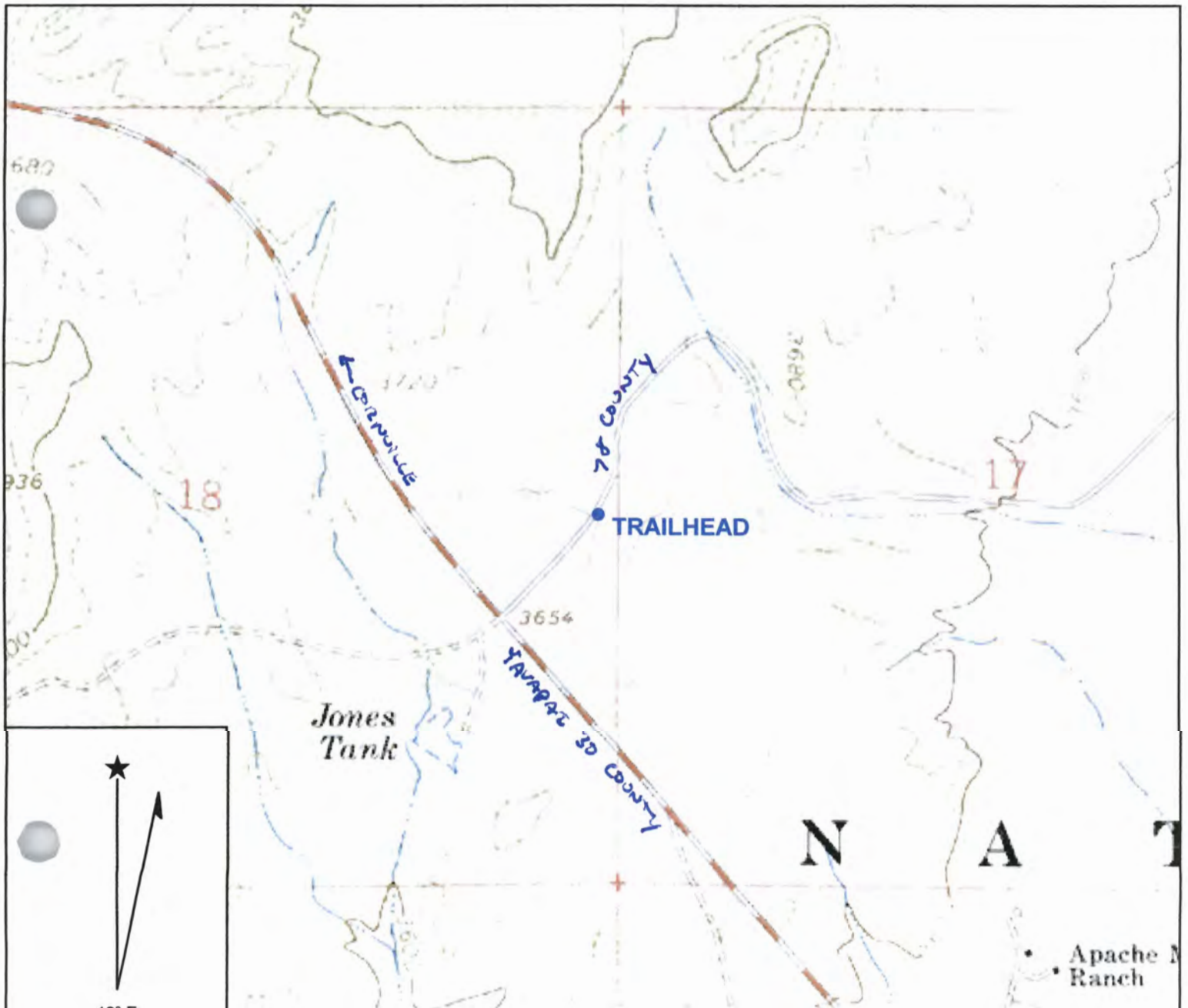


RST LANDSURVEYING INC.

| NAME      | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT   |
|-----------|--------|------------------|-------------------|----------|
| TRAILHEAD | WGS84  | 34°41'33.29315"N | 111°51'04.01545"W | 3600.716 |

|           |       | NORTHING    | EASTING    | ELEVATION NAVD 88 |
|-----------|-------|-------------|------------|-------------------|
| TRAILHEAD | NAD83 | 1343422.748 | 719703.901 | 3684.373          |

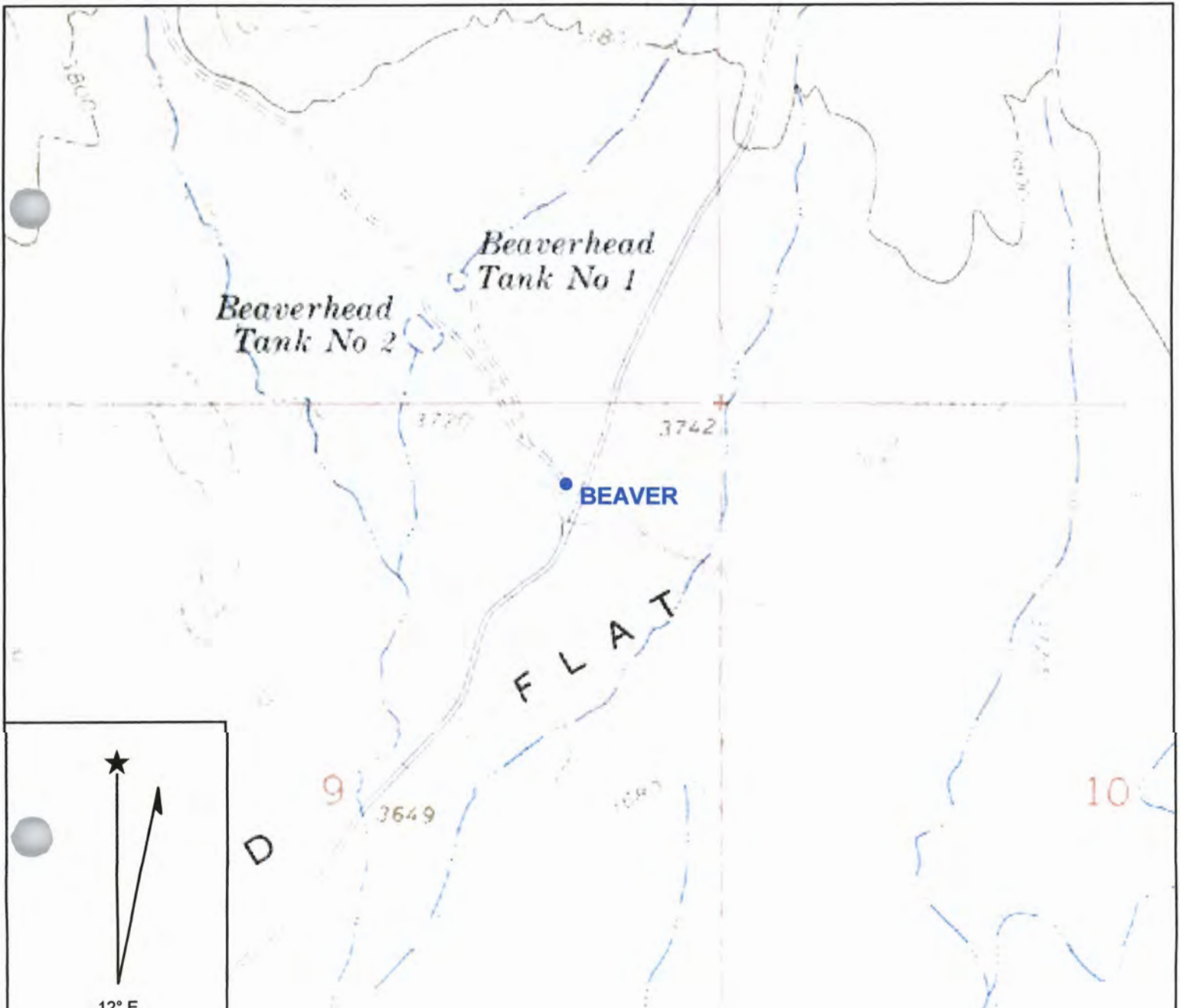
3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +/-  
SOUTHWEST FROM BARB WIRE FENCE AT BEAVER FLAT TRAILHEAD, OFF YAVAPAI 78 COUNTY ROAD.



RST LANDSURVEYING INC.

| NAME   | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|--------|--------|------------------|-------------------|-------------------|
| BEAVER | WGS84  | 34°42'47.53742"N | 111°49'08.39063"W | 3630.970          |
|        |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| BEAVER | NAD83  | 1350935.933      | 729350.895        | 3713.919          |

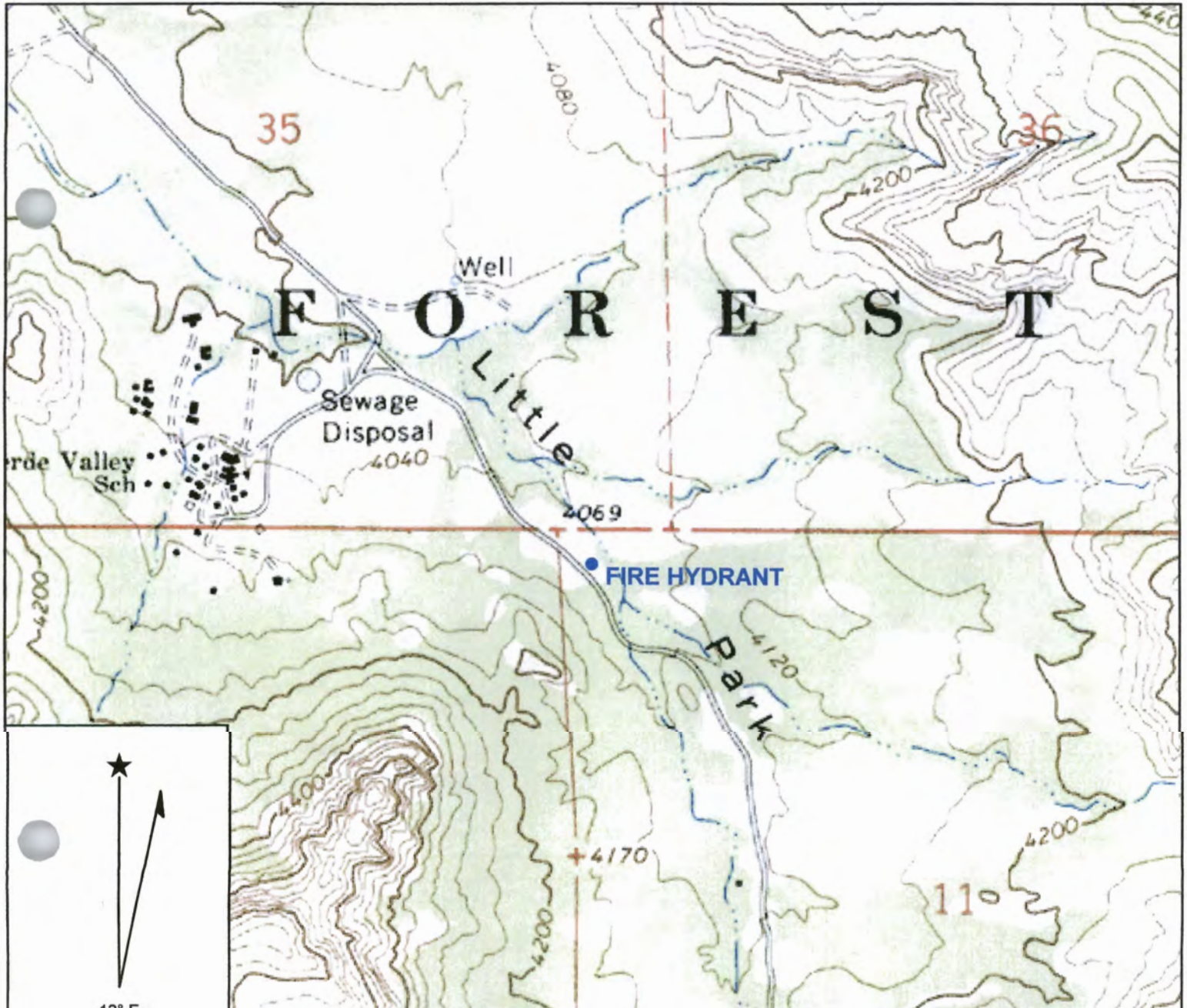
3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +/- NORTHWEST FROM BARB WIRE FENCE AT FOREST SERVICE TRAIL # 9952, OFF YAVAPAI 78 COUNTY ROAD.



RST LANDSURVEYING INC.

| NAME         | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT            |
|--------------|--------|------------------|-------------------|-------------------|
| FIRE HYDRANT | WGS84  | 34°48'10.44894"N | 111°47'51.65531"W | 3987.797          |
|              |        | NORTHING         | EASTING           | ELEVATION NAVD 88 |
| FIRE HYDRANT | NAD83  | 1383586.281      | 735717.797        | 4068.939          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +/- NORTHWEST FROM FIREHYDRANT ON THE NORTHEAST SIDE OF THE VERDE VALLEY SCHOOL ROAD IN OAK CREEK.

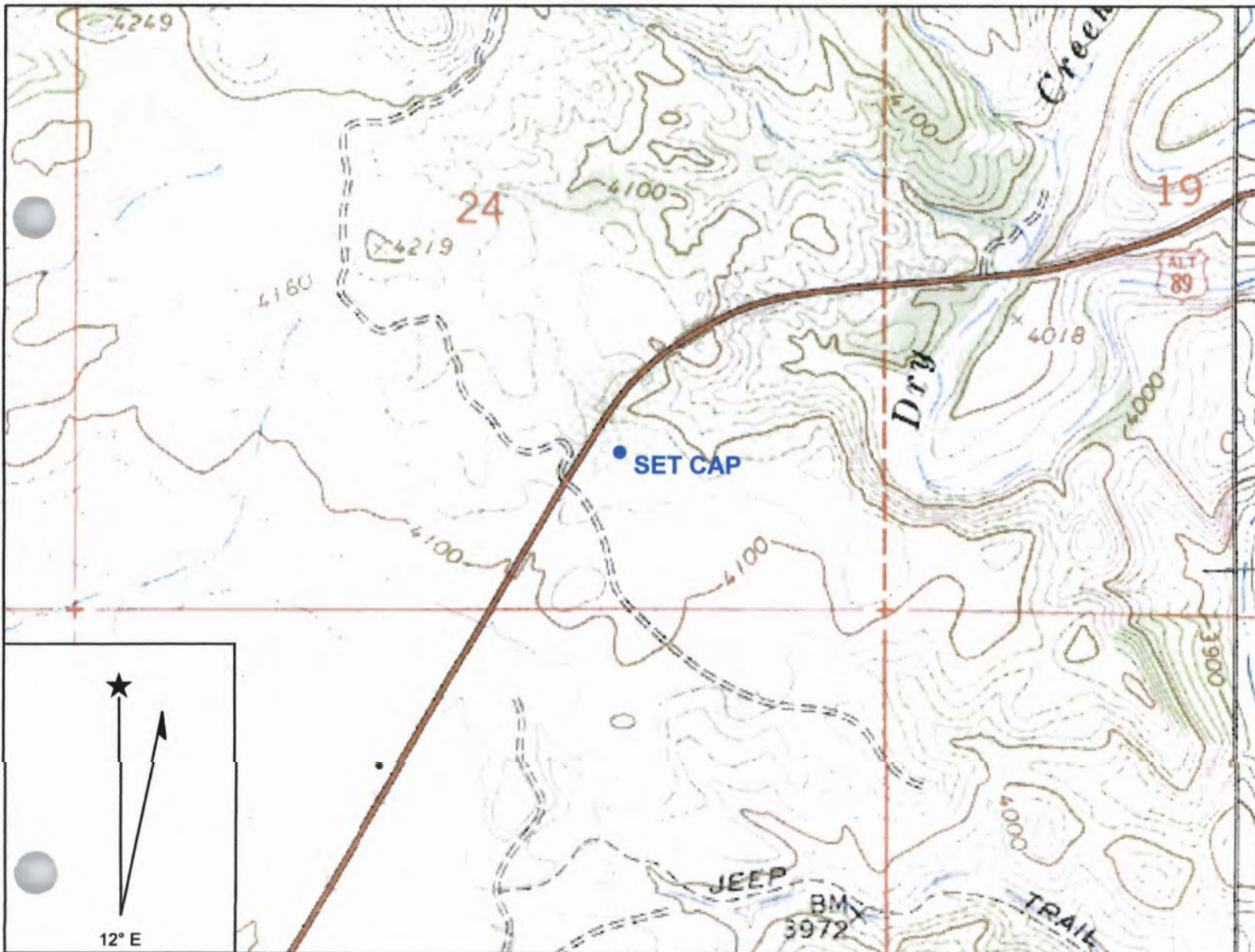


RST LANDSURVEYING INC.

| NAME    | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT   |
|---------|--------|------------------|-------------------|----------|
| SET CAP | WGS84  | 34°50'07.68270"N | 111°53'20.51217"W | 4052.499 |

|         |       | NORTHING    | EASTING    | ELEVATION NAVD 88 |
|---------|-------|-------------|------------|-------------------|
| SET CAP | NAD83 | 1395417.645 | 708292.591 | 4134.168          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +-  
NORTHWEST FROM FENCE ON TOP SLOPE. SOUTHEAST OF HIGHWAY 89.



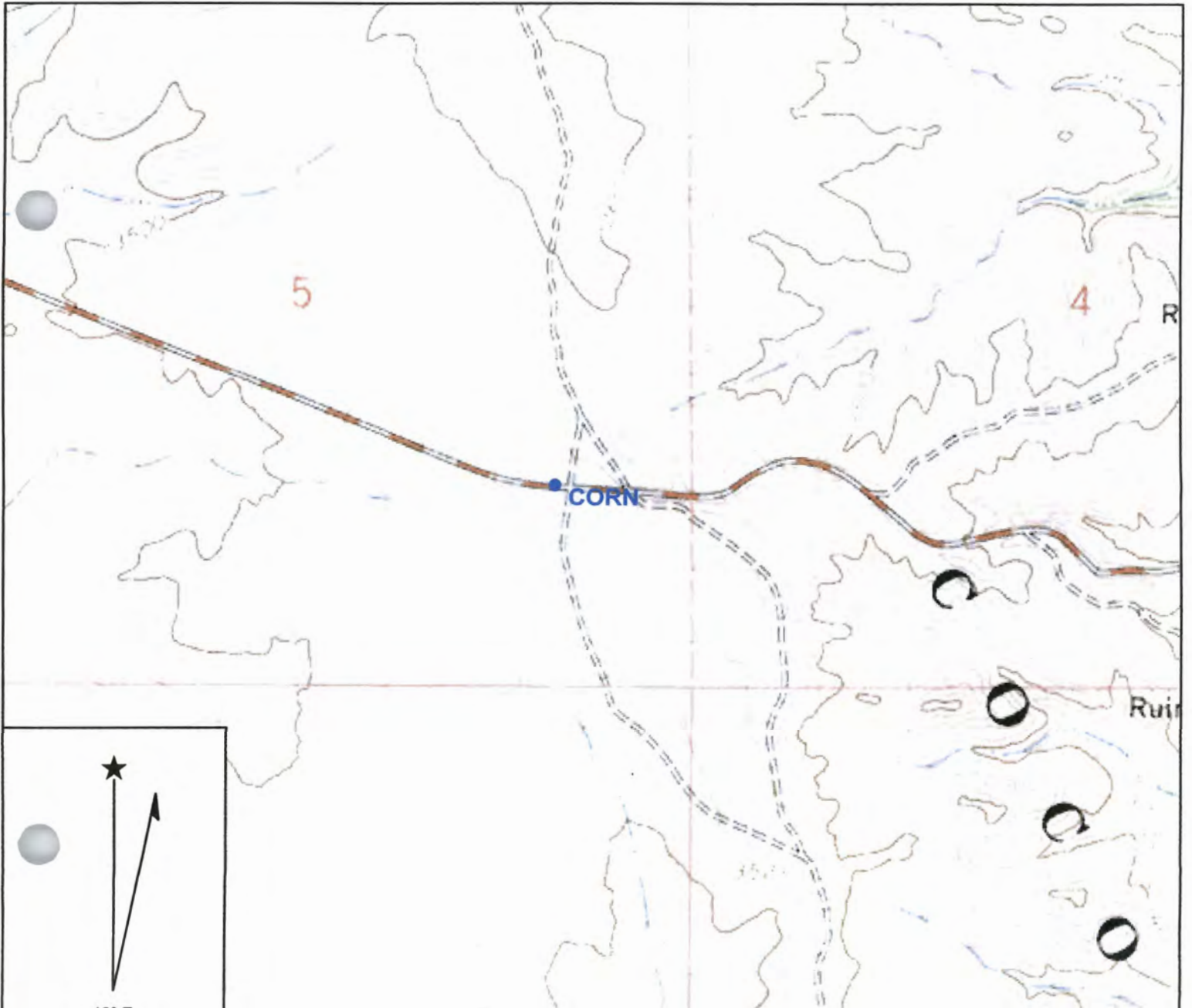


RST LANDSURVEYING INC.

| NAME | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT   |
|------|--------|------------------|-------------------|----------|
| CORN | WGS84  | 34°43'16.99745"N | 111°56'30.94653"W | 3496.538 |

|      |       | NORTHING    | EASTING    | ELEVATION NAVD 88 |
|------|-------|-------------|------------|-------------------|
| CORN | NAD83 | 1353900.762 | 692408.909 | 3580.508          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +/- SOUTH FROM FENCE ON TOP SLOPE. NORTH SIDE OF CORNVILLE ROAD. APPROX 5800' +/- EAST OF TISSAW ROAD.

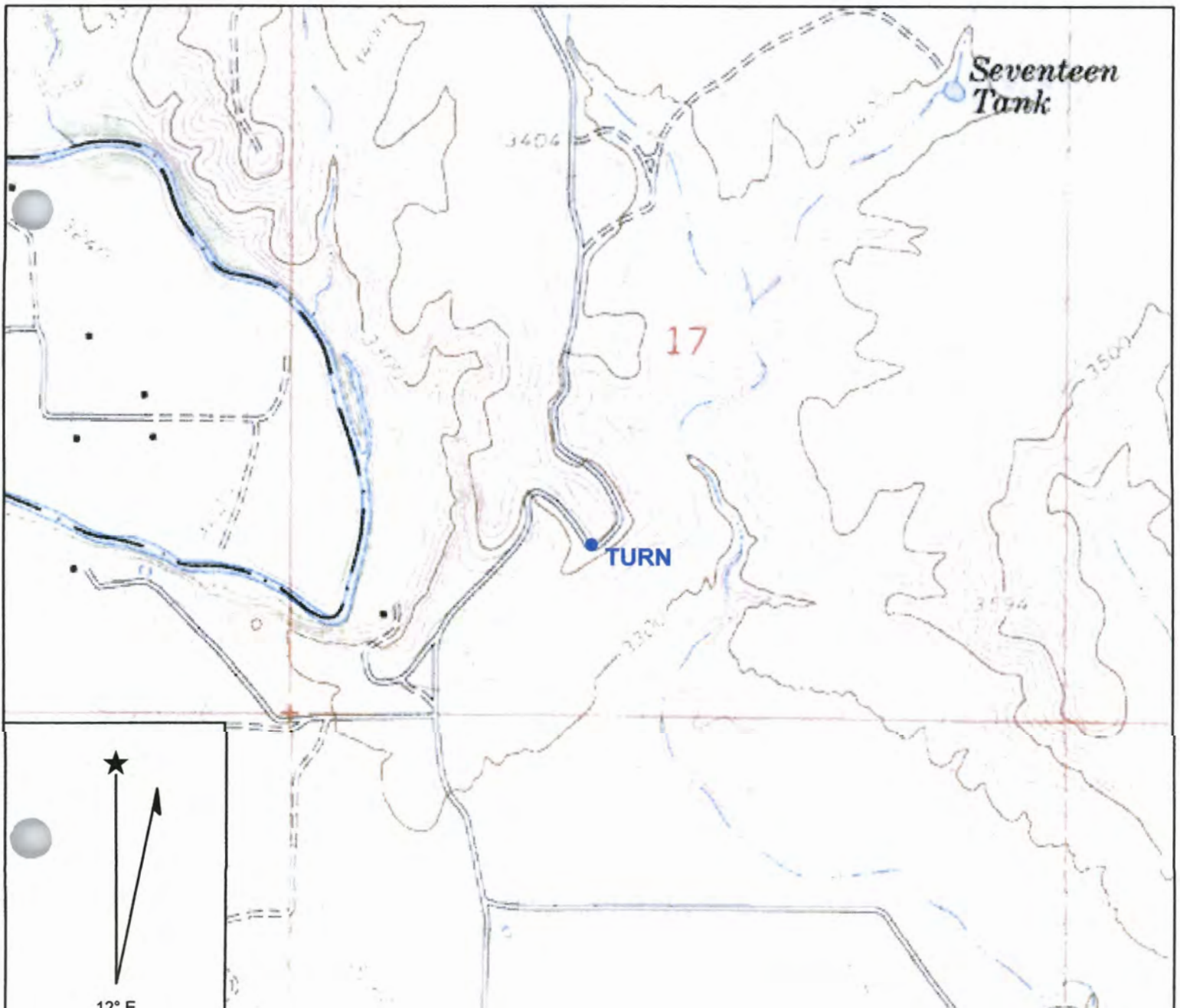


RST LANDSURVEYING INC.

| NAME | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT   |
|------|--------|------------------|-------------------|----------|
| TURN | WGS84  | 34°41'30.91073"N | 111°56'59.11033"W | 3324.622 |

|      |       | NORTHING    | EASTING    | ELEVATION NAVD 88 |
|------|-------|-------------|------------|-------------------|
| TURN | NAD83 | 1343177.129 | 690054.618 | 3409.000          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 2' +/- SOUTH FROM GAURDRAIL ON TISSAW ROAD.





RST LANDSURVEYING INC.

| NAME  | SYSTEM | LATITUDE         | LONGITUDE         | HEIGHT   |
|-------|--------|------------------|-------------------|----------|
| RIVER | WGS84  | 34°46'52.06837"N | 112°02'54.69807"W | 3366.369 |

|       |       | NORTHING    | EASTING    | ELEVATION NAVD 88 |
|-------|-------|-------------|------------|-------------------|
| RIVER | NAD83 | 1375667.493 | 660406.589 | 3449.752          |

3" ALUM. CAP STAMPED (2007 YAVAPAI COUNTY FLOOD CONTROL DISTRICT RLS 33861) 3' +- EAST FROM GAURDRAIL ON SYCAMORE CANYON ROAD EAST SIDE ON TOP OF HILL.

