

BENCHMARK # 2289

On November 20, 1986 Yuma County found a 1947 Bureau of Reclamation brass cap on concrete box culvert, according to the YCHD Corner Records. Found a 2 ½ in. diameter B. of R.-1947 brass cap, properly stamped encased in concrete, in frame and cover, 14in. below asphalt. This is the South Quarter Corner of Section 1, T10S, R23W, of the G.& S. R. B.& M.

Located on Ave. 3 1/2E. and 80<sup>th</sup> St. ( County 17 St. )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°34'56.53396" North

Longitude 114°34'18.50313" West

Ellipsoid Height : 91.952 US Survey Feet / 91.952 International Feet / 28.02703 Meters.

North 576,588.7160 US Survey Feet / 576,589.8692 International Feet.

East 446,861.9500 US Survey Feet / 446,862.8437 International Feet.

NAVD-1988-Elevation

203.71 US Survey Feet. / 203.71 International Feet. / 62.09094 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

203.71 NAVD-1988

-2.15 Area Constant

201.56 US Survey Feet. / 201.56 International Feet / 61.43562 Meters.

Latest Observation Date: November 28, 2012 Greenwich Mean Time 4:28:01 PM.

Epoch Date- 1354123681

Julian Date- 2456260.18612

Observer: Enrique S. Urbieta, Louis Romero and Jesse Gonzalez.

DISCLAIMER STATEMENT

Since this point is outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying from the Trimble GPS Radio Base Station at COYA, the integrity of the point's coordinates and elevations have been compromised and should be re-evaluated prior to usage by comparison to at least 2 other known points on the City of Yuma Datum within the 10 Kilometers, (6.21 miles), range of the Trimble GPS Radio Base Station at COYA, in order to verify the correct coordinates and elevations of the point in reference to the City of Yuma Datum.

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2290

Found a 2-1/2 inch diameter brass cap stamped U.S. Department of the Interior, Bureau of Reclamation approximately 6" below grade with punch mark.

This is a South 1/4, Section 35, T8S, R24W, and North 1/4, Section 2, T9S, R24W of the Gila and Salt River Base and Meridian.

Being located at the intersection of 24<sup>th</sup> Street (County 10<sup>th</sup>) and Avenue D-1/2.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.47755" North

Longitude 114°41'35.67034" West

Ellipsoid Height 6.942 US survey feet, (or 2.116 meters)

North 613742.284 US survey feet

East 210020.525 US survey feet

NGVD-1929-Elevation

116.177 US survey feet, (or 35.411 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.47763" North

Longitude 114°41'35.67037" West

Ellipsoid Height 6.905 US survey feet, (or 2.105 meters)

North 613782.028 US survey feet

East 409783.528 US survey feet

NAVD-1988-Elevation

118.291 US survey feet, (or 36.055 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Thursday October 13, 2005

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2291

*LEAD*

Found a 2 inch diameter ~~aluminum~~ cap with center punch mark, in handhole. This is a Section Corner being the Southeast Corner of Section 34, T8S, R24W; Southwest Corner of Section 35, T8S, R24W; Northeast Corner of Section 3, T9S, R24W; Northwest Corner of Section 2, T9S, R24W; of the Gila and Salt River Base and Meridian.

*otherwise obliterated*

*Set by YUMA COUNTY HIGHWAY DEPARTMENT,*

Being located at the intersection of 24<sup>th</sup> Street (County 10<sup>th</sup>) and Avenue E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.38784" North

Longitude 114°42'06.63304" West

Ellipsoid Height 7.992 US survey feet, (or 2.436 meters)

North 613756.828 US survey feet

East 207374.152 US survey feet

NGVD-1929-Elevation

117.270 US survey feet, (or 35.744 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.38770" North

Longitude 114°42'06.63301" West

Ellipsoid Height 7.966 US survey feet, (or 2.428 meters)

North 613796.568 US survey feet

East 407137.160 US survey feet

NAVD-1988-Elevation

119.396 US survey feet, (or 36.392 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Thursday October 13, 2005

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2292

Found a 2" Diameter aluminum cap in hand hole, stamped YCHD.

This is a South ¼, Section 34, T8S, R24W, and North ¼, Section 3, T9S, R24W of the Gila and Salt River Base and Meridian.

Being located at the intersection of 24<sup>th</sup> Street (County 10<sup>th</sup>) and Somerton Avenue. (AVE, E 1/2).

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.28401" North

Longitude 114°42'37.59968" West

Ellipsoid Height 8.573 US survey feet, (or 2.613 meters)

North 613770.161 US survey feet

East 204727.429 US survey feet

NGVD-1929-Elevation

117.892 US survey feet, (or 35.934 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.28433" North

Longitude 114°42'37.59948" West

Ellipsoid Height 8.513 US survey feet, (or 2.595 meters)

North 613809.967 US survey feet

East 404490.452 US survey feet

NAVD-1988-Elevation

119.981 US survey feet, (or 36.570 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Monday October 17, 2005

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2293

Found a 2-1/2" Diameter brass cap in hand hole stamped Land Office Survey.  
This is a Section Corner being the  
Southeast Corner of Section 33, T8S, R24W;  
Southwest Corner of Section 34, T8S, R24W;  
Northeast Corner of Section 4, T9S, R24W;  
Northwest Corner of Section 3, T9S, R24W;  
of the Gila and Salt River Base and Meridian.

Being located at the intersection of 24<sup>th</sup> Street (County 10<sup>th</sup>) and Avenue F.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.16867" North  
Longitude 114°43'08.53999" West  
Ellipsoid Height 7.520 US survey feet, (or 2.292 meters)  
North 613782.525 US survey feet  
East 202082.946 US survey feet

NGVD-1929-Elevation

116.884 US survey feet, (or 35.626 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.16878" North  
Longitude 114°43'08.54021" West  
Ellipsoid Height 7.556 US survey feet, (or 2.303 meters)  
North 613822.331 US survey feet  
East 401845.933 US survey feet

NAVD-1988-Elevation

119.068 US survey feet, (or 36.292 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Monday October 17, 2005

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2294

Found a 3" diameter brass cap stamped Bureau of Reclamation in hand hole approximately 12" below grade.

This is a South ¼, Section 33, T8S, R24W, and North ¼, Section 4, T9S, R24W of the Gila and Salt River Base and Meridian.

Being located at the intersection of 24<sup>th</sup> Street (County 10<sup>th</sup>) and Avenue F-1/2.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.08110" North

Longitude 114°43'39.62821" West

Ellipsoid Height 4.575 US survey feet, (or 1.394 meters)

North 613798.027 US survey feet

East 199425.846 US survey feet

NGVD-1929-Elevation

113.988 US survey feet, (or 34.744 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.08133" North

Longitude 114°43'39.62842" West

Ellipsoid Height 4.531 US survey feet, (or 1.381 meters)

North 613837.865 US survey feet

East 399188.835 US survey feet

NAVD-1988-Elevation

116.092 US survey feet, (or 35.385 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Monday October 18, 2005

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2295

Found a 4 inch diameter brass cap stamped US Reclamation Survey T8S, R24W, S32, S33, T9S, R24W, S4, S5, Dated 1916.

This is a Section Corner being the  
Southeast Corner of Section 32, T8S, R24W;  
Southwest Corner of Section 33, T8S, R24W;  
Northeast Corner of Section 5, T9S, R24W;  
Northwest Corner of Section 4, T9S, R24W;  
of the Gila and Salt River Base and Meridian.

Being located at the intersection of 24<sup>th</sup> Street (County 10<sup>th</sup>) and Avenue G.  
Approximately 3 feet West of West Main Canal and 1 foot below grade.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'00.99206" North  
Longitude 114°44'11.08014" West  
Ellipsoid Height 11.226 US survey feet, (or 3.422 meters)  
North 613813.885 US survey feet  
East 196737.660 US survey feet

NGVD-1929-Elevation

120.730 US survey feet, (or 36.799 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'00.99203" North  
Longitude 114°44'11.08002" West  
Ellipsoid Height 11.195 US survey feet, (or 3.412 meters)  
North 613853.716 US survey feet  
East 396500.676 US survey feet

NAVD-1988-Elevation

122.805 US survey feet, (or 37.431 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: November 1, 2005

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2296

Found a 3" diameter brass cap stamped Bureau of Land Management, Cadastral Survey, 1961, inside a 6" diameter PVC pipe with cover, Approximately 2' below grade.

This is a South ¼, Section 28, T16S, R22E, and North ¼, Section 33, T16S, R22E, of the San Bernardino Base and Meridian.

Being located approximately 1320.00 feet North of 1<sup>st</sup> Street and 5.0 feet West of the power poles, on dirt road in middle of field.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°43'43.57847" North

Longitude 114°39'24.61143" West

Ellipsoid Height 15.565 US survey feet, (or 4.744 meters)

North 630027.218 US survey feet

East 221361.645 US survey feet

NGVD-1929-Elevation

124.369 US survey feet, (or 37.908 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'43.57855" North

Longitude 114°39'24.61145" West

Ellipsoid Height 15.556 US survey feet, (or 4.741 meters)

North 630066.876 US survey feet

East 421124.770 US survey feet

NAVD-1988-Elevation

126.506 US survey feet, (or 38.559 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Thursday October 20, 2005

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2297

*Fd. Cotton Picker Pin in Top of RR Tie; then*

Found 3" diameter brass cap stamped Bureau of Land Management, Cadastral Survey 1961, located approximately 1' below railroad tie in center of tracks; *w/ R23E*

Set a 3" diameter brass cap in railroad tie precisely above found brass cap, stamped C.O.Y., T16S, R22E, S27, S28, S33, S34, LS19329, 2005,

This is a Section Corner being the  
Southeast Corner of Section 28, T16S, R22E;  
Southwest Corner of Section 27, T16S, R22E;  
Northeast Corner of Section 33, T16S, R22E;  
Northwest Corner of Section 34, T16S, R22E;  
of the San Bernardino Base and Meridian.

Being located approximately 1320.00 feet North of 1<sup>st</sup> Street and West of 23<sup>rd</sup> Avenue,  
in railroad tie at the center of tracks on levee.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°43'43.64391" North

Longitude 114°38'53.74051" West

Ellipsoid Height 26.726 US survey feet, (or 8.146 meters)

North 630011.421 US survey feet

East 223998.832 US survey feet

→ NGVD-1929-Elevation

135.495 US survey feet, (or 41.299 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'43.64395" North

Longitude 114°38'53.74056" West

Ellipsoid Height 26.695 US survey feet, (or 8.137 meters)

North 630051.056 US survey feet

East 423761.954 US survey feet

NAVD-1988-Elevation

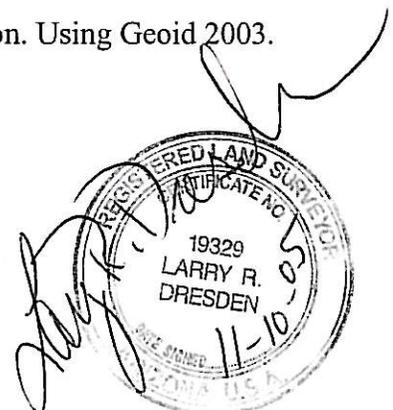
137.611 US survey feet, (or 41.944 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Friday October 21, 2005

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2298

Found a 3 inch diameter brass cap approximately 1 foot below grade. Stamped Bureau of Reclamation, T8S, R22W, S29, S30.

This is an East ¼, Section 30, T8S, R22W, and West ¼, Section 29, T8S, R22W of the Gila and Salt River Base and Meridian.

Being located at the intersection of 5E and County 8-1/2. (City 12th St.)

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°42'22.68607" North

Longitude 114°32'50.30609" West

Ellipsoid Height 31.107 US survey feet, (or 9.481 meters)

North 621581.663 US survey feet

East 254983.737 US survey feet

NGVD-1929-Elevation

139.709 US survey feet, (or 42.583 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'22.68581" North

Longitude 114°32'50.30598" West

Ellipsoid Height 31.240 US survey feet, (or 9.522 meters)

North 621621.037 US survey feet

East 454746.810 US survey feet

NAVD-1988-Elevation

142.007 US survey feet, (or 43.284 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Tuesday November 1, 2005

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2299

Found a 2 inch diameter brass cap, United States General Land Office Survey dated 1949 encased in concrete. <sup>260</sup>

SE Corner of Section ~~25~~, T16S, R22E  
SW Corner of Section 25, T16S, R22E  
NE Corner of Section 35, T16S, R22E  
NW Corner of Section 36, T16S, R22E  
of the San Bernardino Base and Meridian.

?

Being located approximately 300 feet NE from railroad tracks, on West side of St. Thomas Mission Church.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°43'51.16693" North

Longitude 114°36'56.89323" West

Ellipsoid Height 79.577 survey feet, (or 24.255 meters)

North 630688.838 survey feet

East 233986.658 survey feet

NGVD-1929-Elevation

188.200 survey feet, (or 57.363 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'51.16686" North

Longitude 114°36'56.89322" West

Ellipsoid Height 79.552 survey feet, (or 24.247 meters)

North 630728.388 survey feet

East 433749.790 survey feet

NAVD-1988-Elevation

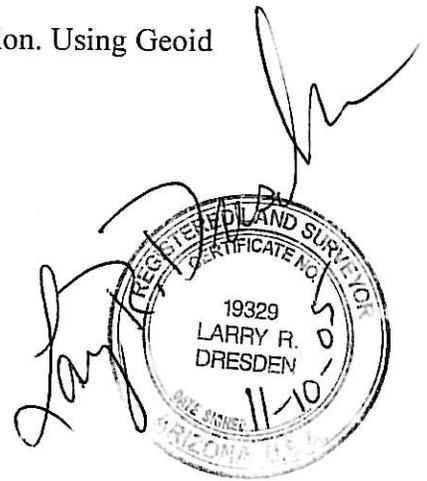
190.325 survey feet, (or 58.011 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Friday November 4, 2005

Observer: John Nye & Louis Romero

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2300

Found prior a 3in. dia. brass cap U.S. Department of the Interior, Bureau of Land Management dated 1972 in frame and cover. Found a 3in. dia. cap, BLM-1972, properly stamped, 14in. below ground, in frame and cover. This is the Common Quarter Corner of Sections 8 and 17, T9S, R23W of the Gila And Salt River Base And Meridian.

Located at Ave. A 1/2 and 40<sup>th</sup> St. Alignment.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'17.51326" North

Longitude 114°38'29.30141" West

Ellipsoid Height 7.948 US Survey Feet / 7.948 International Feet / 2.42256 Meters.

North 603,137.1770 US Survey Feet. / 603,138.3833 International Feet.

East 425,623.5730 US Survey Feet. / 425,624.4242 International Feet.

NAVD-1988-Elevation

119.30 US Survey Feet. / 119.30 International Feet. / 36.362713 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: March 18, 2002

Previous Observer: Louis Romero and Larry R. Dresden.

NGVD-1929-Elevation

119.30 NAVD-1988

- 2.15 Area Constant

117.15 US Survey Feet. / 117.15 International Feet. / 35.7074 Meters.

Latest Observation Date: April 02, 2014 Greenwich Mean Time 05:03:14 PM.

Epoch Date - 1396458194 Julian Date - 2456750.2158

Observer: Enrique S. Urbieta

BENCHMARK #2301

Found a 1 inch diameter iron bar with a punch mark approximately 1 inch under the asphalt pavement. Located in the South to North driving lane. The Quarter Corner common to Sections 16 and 17 of Township 9 South, Range 23 West, of the Gila and Salt River Base and Meridian, Yuma County, Arizona. Located at intersection of the centerline of Avenue "A" and the centerline of ~~48<sup>th</sup>~~ Street.

44<sup>th</sup>

NAD-1983-Coordinates

Latitude 32° 38' 51.38936" North  
Longitude 114° 37' 58.42255" West  
Ellipsoid Height 68.97 survey feet  
North 600,474.917 survey feet  
East 428,241.658 survey feet

NAVD-1988-Elevation

180.276 survey feet

NAD-1927-Coordinates

North 600,435.306 survey feet  
East 228,478.755 survey feet

NGVD-1929-Elevation

178.035 survey feet

Observation Date: Monday, March 18<sup>th</sup>, 2002.

Observers: Louis Romero &  
Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2302

Found prior a Yuma County brass cap, set by Robinson, LS16767, 18in. below asphalt. Found a 3" diameter brass cap, LS19329-COY-2007 encased in concrete, flush with asphalt and properly stamped. This is the E ¼ Corner of Section 20, and, the W ¼ Corner of Section 21, T8S, R23W, of the Gila And Salt River Base And Meridian.

Located 224 Feet North of 4<sup>th</sup> St. on Ave. A.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'13.21913" North

Longitude 114°37'59.55830" West

Ellipsoid Height 19.234 US Survey Feet / 19.234 International Feet / 5.88997 Meters.

North 626,937.5890 US Survey Feet / 626,938.8429 International Feet.

East 428,364.8370 US Survey Feet / 428,365.6837 International Feet.

NAVD-1988-Elevation

130.13 US survey feet. / 130.13 International feet / 39.66371 meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: May 23, 2007

Previous Observer: Enrique S. Urbieto

NGVD-1929-Elevation

130.13 NAVD 1988

-2.15 Area Constant

127.98 U.S. Survey Feet / 39.0084 Meters.

Latest Observation Date: November 12, 2013 Greenwich Mean Time-04:25:19 PM.

Epoch Date-1384273519

Julian Date- 2456609.18425

Observer: Enrique S. Urbieto

BENCHMARK # 2303

Set a 3" diameter. Brass cap with punchmark. COY LS 19329-2007. Encased in concrete on surface of asphalt road. This being on the South Line of Section 34, T16S, R23W, of the San Bernardino Base And Meridian. And the NE Corner of Section 20. NW Corner of Section 21, T8S, R23W, of the Gila And Salt River Base And Meridian.

This was set above the Yuma County Brass Cap set by Robinson, LS# 16767, 18" below asphalt.

Located at : About 200' South of 1<sup>st</sup> St. on Ave. A, in the South bound travel lane.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'27.95888" North

Longitude 114°37'59.53240" West

Ellipsoid Height 23.647 US survey feet /23.64704 International feet /7.2076 meters.

North 628,427.037 US survey feet./ 628,428.2939 International feet.

East 428,379.516 US survey feet / 428,380.3728 International feet.

NAVD-1988-Elevation

134.509 US survey feet. / 134.50926 International feet. / 40.9984 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: 11/08/05

Previous Observer: Martin Sandoval & Louis Romero

NGVD-1929-Elevation

134.509 NAVD 1988

-2.15 Area Constant.

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132.359 U.S. Survey Feet / 132.3592 International Feet.

Latest Observation Date: May, 23, 2007 Greenwich Mean Time-05:08:54 PM.

Epoch Date-1179922134

Julian Date- 2454243.71451

Observer: Enrique S. Urbieta

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2304

Found a 3 inch diameter brass cap in hand hole stamped LS 16592, SBM S33, GSRM S19, S20, Dated 1994.

~~Section 33, T16S, R22E intersecting the south line thereof of the San Bernardino Base and Meridian.~~

NE Corner of Section 19, T8S, R23W, NW Corner of Section 20, T8S, R23W, of the Gila and Salt River Base and Meridian, *and South Line of Section 33, T16S, R22E of the San Bernardino Base and Meridian.*  
Being located in the left hand, southbound lane of Avenue B and approximately 20' North of West Main Canal.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°43'23.62056" North

Longitude 114°39'01.54762" West

Ellipsoid Height 24.016 US survey feet, (or 7.320 meters)

North 627993.430 US survey feet

East 223314.757 US survey feet

NGVD-1929-Elevation

132.821 US survey feet, (or 40.484 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'23.62041" North

Longitude 114°39'01.54753" West

Ellipsoid Height 23.974 US survey feet, (or 7.307 meters)

North 628033.052 US survey feet

East 423077.877 US survey feet

NAVD-1988-Elevation

134.926 US survey feet, (or 41.126 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Monday November 14, 2005

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2305

Found a 1 1/2-inch diameter iron pipe approximately 18 inches below the ground surface.  
Set a 3-inch diameter brass cap stamped "CITY OF YUMA, T16S, R22E, SBBM,  
S33, S34, T8S, R23W, GSRBM, S20, 2005, LS 19329", in concrete at ground level.

*inside of a 2 1/2 inch galvanized pipe 30 inches long,*  
This is a Section corner being the  
Southeast Corner of Section 33, T16S, R22E;  
Southwest Corner of Section 34, T16E, R22E, of the San Bernardino Base and Meridian;  
*on the North Line of Section 20, T8S, R23W, GSRBM,*  
Being located at the west right of way of 23<sup>rd</sup> Avenue intersecting the north right of way  
of the west main canal.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°43'24.16054" North  
Longitude 114°38'53.73385" West  
Ellipsoid Height 24.336 US survey feet, (or 7.418 meters)  
North 628,042.351 US survey feet  
East 223,982.747 US survey feet

NGVD-1929-Elevation

133.130 US survey feet (or 40.578 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'24.16051" North  
Longitude 114°38'53.73382" West  
Ellipsoid Height 24.328 US survey feet, (or 7.415 meters)  
North 628,081.978 US survey feet  
East 423,745.862 US survey feet

NAVD-1988-Elevation

135.270 US survey feet, (or 41.230 meters)

These are the results of a 30-minute Trimble 4800 RTK Observation. Using Geoid 2003.

Previous Observation Date:

Previous Observer:

Latest Observation Date: Friday, November 18, 2005.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2306

Found a 3/4-inch diameter iron bar approximately 4 inches below the asphalt road surface.

This is a Section Corner being the  
Southwest Corner of Section 16, T9S, R23W;  
Southeast Corner of Section 17, T9S, R23W;  
Northeast Corner of Section 20, T9S, R23W;  
Northwest Corner of Section 21, T9S, R23W, of the Gila and Salt River Base and  
Meridian.

Being located at the centerline of Avenue "A" and 48<sup>th</sup> Street.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°38'25.24110" North  
Longitude 114°37'58.37948" West  
Ellipsoid Height 71.032 survey feet, (or 21.651 meters)  
North 597,792.908 survey feet  
East 228,460.541 survey feet

NGVD-1929-Elevation

180.218 survey feet, (or 54.931 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'25.24134" North  
Longitude 114°37'58.37969" West  
Ellipsoid Height 71.071 survey feet, (or 21.662 meters)  
North 597,832.529 survey feet  
East 428,223.410 survey feet

NAVD-1988-Elevation

182.426 survey feet, (or 55.604 meters)

These are the results of a 30-minute Trimble 4800 RTK Observation. Using GEOID 2003.

Previous Observation Date:

Previous Observer:

Latest Observation Date: Thursday, December 08, 2005.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2307

Found a 3-inch diameter brass cap stamped "CITY OF YUMA, T8S, R22W, ¼, S32, S33, 2001, LS 19329", approximately 6 inches below the dirt road surface.

This is a Section Corner being the  
East ¼ Corner of Section 32, T8S, R22W;  
West ¼ Corner of Section 33, T8S, R22W, of the Gila and Salt River Base and Meridian.

Located at the centerline of Avenue 6E and approximately what it would be City of Yuma's 20<sup>th</sup> Street.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'30.80206" North  
Longitude 114°31'48.14340" West  
Ellipsoid Height 35.251 survey feet, (or 10.745 meters)  
North 616,298.602 survey feet  
East 260,256.830 survey feet

NGVD-1929-Elevation

143.917 survey feet, (or 43.866 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'30.80195" North  
Longitude 114°31'48.14340" West  
Ellipsoid Height 35.294 survey feet, (or 10.758 meters)  
North 616,337.951 survey feet  
East 460,019.854 survey feet

NAVD-1988-Elevation

146.131 survey feet, (or 44.541 meters)

These are the results of a 30-minute Trimble 4800 RTK Observation. Using GEOID 2003.

Previous Observation Date:

Previous Observer:

Latest Observation Date: Monday, December 19, 2005.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2308

*dated 2001*

Found a 3" Dia. COY LS 19329 Brass cap with punch mark, 11" below asphalt, in hand hole. This being the common ¼ Corner of Sections 33 and 34, T8S, R22W of the G.&S.R.B.& M. Located in the intersection of Ave 7E and 20<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'31.06194" North

Longitude 114°30'46.46866" West

Ellipsoid Height 40.705 US survey feet / 40.705 International feet / 12.4069 meters.

North 616,325.895 US survey feet / 616,327.1277 International feet.

East 465,290.965 US survey feet / 465,291.8956 International feet.

NAVD-1988-Elevation

151.58 US survey feet. / 151.58 International feet. / 46.20168 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: December, 19, 2005 Previous Observer: Louis Romero

NGVD-1929-Elevation

151.58 NAVD-1988

- 2.15 Area Constant

149.43 US survey feet. / 45.5464 meters.

Latest Observation Date: May, 05, 2008 Greenwich Mean Time-07:28:56 PM.

Epoch Date-1210015736

Julian Date- 2454592.31176

Observer: Enrique S. Urbietta, Louis Romero.

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden,

Registered Land Surveyor.

Arizona License #19329

California License # 5643



BENCHMARK # 2309

Found a 3-inch diameter brass cap stamped "CITY OF YUMA, ¼, R23W, R22W, S1, S6, 2003, LS 19329", flush with the asphalt road surface.

This is a Section Corner being the  
East ¼ Corner of Section 1, T9S, R23W;  
West ¼ Corner of Section 6, T9S, R22W, of the Gila and Salt River Base and Meridian.

Located at the centerline of Avenue 4E and 28<sup>th</sup> Street.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°40'37.47019" North  
Longitude 114°33'51.26213" West  
Ellipsoid Height 106.184 survey feet, (or 32.365 meters)  
North 610,987.628 survey feet  
East 249,693.748 survey feet

NGVD-1929-Elevation

214.988 survey feet, (or 65.529 meters)

NAD-1983-Coordinates Arizona West Zone 0203)

Latitude 32°40'37.47022" North  
Longitude 114°33'51.26209" West  
Ellipsoid Height 106.165 survey feet, (or 32.359 meters)  
North 611,027.071 survey feet  
East 449,456.735 survey feet

NAVD-1988-Elevation

217.138 survey feet, (or 66.184 meters)

These are the results of a 30-minute Trimble 4800 RTK Observation. Using GEOID 2003.

Previous Observation Date:  
Previous Observer:

Latest Observation Date: Thursday, December 29, 2005.  
Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2310

Found prior 1/2in. diameter Rebar with Plastic Cap LS 22767, 10in. below ground, and 18in. West of it, also found a 1/2in. Rebar with Brass Tag, RLS 31591. 6in. above ground level. Set a 3in. diameter Brass Cap LS 19329-COY-2011, properly stamped. This being the Center 1/4 Corner of Section 6, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 4 1/2 E and 28<sup>TH</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'37.72569" North

Longitude 114°33'20.49173" West

Ellipsoid Height 103.062 US Survey Feet / 103.062 International Feet / 31.4134 Meters.

North 611,032.7620 US Survey Feet. / 611,033.9841 International Feet.

East 452,087.1560 US Survey Feet. / 452,088.0602 International Feet.

NAVD-1988-Elevation

214.10 US Survey Feet. / 214.10 International Feet. / 65.25782 Meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date: December 29, 2005 Previous Observer: John Nye

NGVD-1929-Elevation

214.10 NAVD-1988

- 2.15 Area Constant

211.95 US survey feet. / 211.95 International Feet. / 64.6025 Meters.

Latest Observation Date: August 19, 2011 Greenwich Mean Time 04:13:02 PM.

Epoch Date-1313770382

Julian Date- 2455793.17572

Observer: Enrique S. Urbieto

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2311

Found a 3" diameter brass cap, stamped US Cadastral Survey, Bureau of Land Management, Dated 1960, approximately 18" below grade.

This is the East 1/4, Section 6, T9S, R22W, West 1/4, Section 5, T9S, R22W, of the Gila and Salt River Base and Meridian.

Being located at the intersection of 28<sup>th</sup> Street and Avenue 5 E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°40'37.97728" North

Longitude 114°32'49.66431" West

Ellipsoid Height 101.622 US survey feet, (or 30.97 meters)

North 610998.943 US survey feet

East 254959.167 US survey feet

NGVD-1929-Elevation

210.425 US survey feet, (or 64.14 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'37.97714" North

Longitude 114°32'49.66463" West

Ellipsoid Height 101.599 US survey feet, (or 30.97 meters)

North 611038.330 US survey feet

East 454722.125 US survey feet

NAVD-1988-Elevation

212.573 US survey feet, (or 64.79 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Monday December 29, 2005

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2312

Found previously a 3in. diameter Brass Cap LS 19329-COY, with punch mark, on asphalt level, which was removed by the replacement of the new culvert of the N-S canal. Set a 3in. diameter Brass Cap LS 19329-COY-2011, properly stamped 7in. below asphalt in frame and cover. This being the Common Quarter Corner of Sections 24 and 25, T8S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. C ½ and 8<sup>TH</sup> ST.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'47.01545" North

Longitude 114°40'33.57057" West

Ellipsoid Height 16.298 US Survey Feet / 16.298 International Feet / 4.96765 Meters.

North 624,401.5850 US Survey Feet. / 624,402.8338 International Feet.

East 415,183.7660 US Survey Feet. / 415,184.5964 International Feet.

NAVD-1988-Elevation

127.41 US Survey Feet. / 127.41 International Feet. / 38.83465 Meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date: December 30, 2005

Previous Observer: John Nye

NGVD-1929-Elevation

127.41 NAVD-1988

- 2.15 Area Constant

125.26 US Survey Feet. / 125.26 International Feet. / 38.17933 Meters.

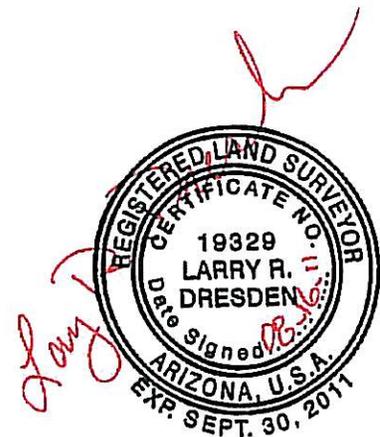
Latest Observation Date: July 27, 2011 Greenwich Mean Time 04:34:39 PM.

Epoch Date-1311784479

Julian Date- 2455770.19073

Observer: Enrique S. Urbieto

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2313

Found prior a 3in. dia. brass cap with punch mark, encased in concrete, in frame and cover, 6 inches below asphalt. Found a 3in. dia. aluminum cap ADOT-LS 28743-2009 properly stamped, encased in concrete, in frame and cover, 8 inches below asphalt. This is the Common Quarter Corner of Sections 21 and 28, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 6 1/2E. ( US 195 ) and 56<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'35.45626" North

Longitude 114°31'14.62866" West

Ellipsoid Height 95.470 US Survey Feet / 95.470 International Feet / 29.09932 Meters.

North 592,532.0770 US Survey Feet. / 592,533.2621 International Feet.

East 462,711.5300 US Survey Feet. / 462,712.4554 International Feet.

NAVD-1988-Elevation

206.89 US Survey Feet. / 206.89 International Feet. / 63.0602 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: February 07, 2008 Previous Observer: Enrique S. Urbieto

NGVD-1929-Elevation

206.89 NAVD-1988

- 2.15 Area Constant

204.74 US Survey Feet. / 204.74 International Feet. / 62.40488 Meters.

Latest Observation Date: May 23, 2013 Greenwich Mean Time 05:30:36 PM.

Epoch Date - 1369330236

Julian Date - 2456436.22958

Observer: Enrique S. Urbieto

Under the Direct Supervision of : Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK #2314  
STATION BUTTERFLY GARDEN

Found a previously set 3-inch brass cap set in concrete stamped "City of Yuma, BM 2314, Butterfly, 2006, LS# 19329 with punch". Located on Butterfly Hilltop in the West Wetlands Park.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°43'50.46458 North  
Longitude 114°38'43.09246 West  
Ellipsoid Height 30.866 U.S. Survey Feet, (or 9.41 meters)  
North 630,693.065 U.S. Survey Feet  
East 224,914.247 U.S. Survey Feet

NGVD-1929-Elevation: 139.613 U.S. Survey Feet, (or 42.55 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'50.46465 North  
Longitude 114°38'43.09247 West  
Ellipsoid Height 30.857 U.S. Survey Feet, (or 9.41 meters)  
North 630,732.696 U.S. Survey Feet  
East 424,677.378 U.S. Survey Feet

NAVD-1988-Elevation: 141.752 U.S. Survey Feet, (or 43.21 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation with 2003 Geoid.

Observation Date: Friday, May 26, 2006  
Observer: Louis A. Romero

Previous Observation Date: Monday, February 2, 2006  
Previous Observer: Louis A. Romero

Under the Direct Supervision of: Larry R. Dresden  
Professional Registered Land Surveyor:  
Arizona License #19329  
California License #5643



BENCHMARK # 2315

Found a 3in. diameter brass cap LS 19329-COY-2002, properly stamped flush with asphalt. This is the Common Quarter Corner of Sections 1 and 12, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. C 1/2 and 32<sup>nd</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'09.46094" North

Longitude 114°40'33.44497" West

Ellipsoid Height 8.359 US Survey Feet / 8.359 International Feet / 2.54783 Meters.

North 608,478.1250 US Survey Feet. / 608,479.3420 International Feet.

East 415,055.4950 US Survey Feet. / 415,056.3251 International Feet.

NAVD-1988-Elevation

119.78 US Survey Feet. / 119.78 International Feet. / 36.50902 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: February 03, 2006 Previous Observer: Martin Sandoval

NGVD-1929-Elevation

119.78 NAVD-1988

- 2.15 Area Constant

117.63 US Survey Feet. / 117.63 International Feet. / 35.8537 Meters.

Latest Observation Date: February 26, 2013 Greenwich Mean Time 04:33:43 PM.

Epoch Date - 1361896423

Julian Date - 2456350.19008

Observer: Enrique S. Urbietta and Louis Romero

Under the Direct Supervision of : Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2316

On September 28, 1978 Yuma County Highway Department found a USBR brass cap in a 4in. pipe, according to Book 1, page 145, of the YCHD Section Corner Records. Found a 2 1/2in. dia. USBR-1967, brass cap, properly stamped, encased in concrete, 2 inches below asphalt, in frame and cover. This is the SW Corner of Section 1, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. D and 32<sup>nd</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'09.44655" North

Longitude 114°41'04.52343" West

Ellipsoid Height 6.529 US Survey Feet / 6.529 International Feet / 1.99005 Meters.

North 608,499.9560 US Survey Feet. / 608,501.1730 International Feet.

East 412,398.7940 US Survey Feet. / 412,399.6188 International Feet.

NAVD-1988-Elevation

118.00 US Survey Feet. / 118.00 International Feet. / 35.96648 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: February 03, 2006 Previous Observer: Martin Sandoval.

NGVD-1929-Elevation

118.00 NAVD-1988

- 2.15 Area Constant

115.85 US Survey Feet. / 115.85 International Feet. / 35.3112 Meters.

Latest Observation Date: February 26, 2013 Greenwich Mean Time 05:10:33 PM.

Epoch Date - 1361898633

Julian Date - 2456350.2166

Observer: Enrique S. Urbieta and Louis Romero.

Under the Direct Supervision of : Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2317

Found prior a 2 1/2in. dia. brass cap 2ft. below asphalt. Found a 2 1/2in. dia. cap, BOR-1967, properly stamped, 2ft. below asphalt inside a 6in. dia. PVC pipe. This is the Common Quarter Corner of Sections 1 and 2, T9S, R24W of the Gila And Salt River Base And Meridian.

Located at Ave. D and 28<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'35.54670" North

Longitude 114°41'04.45674" West

Ellipsoid Height 5.037 US Survey Feet / 5.037 International Feet / 1.535281 Meters.

North 611,137.7320 US Survey Feet. / 611,138.9543 International Feet.

East 412,427.7250 US Survey Feet. / 412,428.5499 International Feet.

NAVD-1988-Elevation

116.45 US Survey Feet. / 116.45 International Feet. / 35.494032 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: February 03, 2006

Previous Observer: Martin Sandoval.

NGVD-1929-Elevation

116.45 NAVD-1988

- 2.15 Area Constant

114.30 US Survey Feet. / 114.30 International Feet. / 34.83871 Meters.

Latest Observation Date: November 30, 2011 Greenwich Mean Time 03:17:50 PM.

Epoch Date - 1322666270

Julian Date - 2455896.05405

Observer: Enrique S. Urbieta

BENCHMARK # 2318

Found prior a 1/2in. dia. rebar with plastic cap LS 31018, 1in. below asphalt and approximately 1ft. west of unacceptable 3in. dia. brass cap set in concrete. Found a 1/2in. dia. rebar with plastic cap LS 22767, 1in. below asphalt, and 1.50ft. S89°05'22"W of an unacceptable 3in. dia. brass cap LS 16528 This is the Center Quarter Corner of Section 1, T9S, R24W of the Gila And Salt River Base And Meridian.

Located at Ave. 45<sup>th</sup> Ave. and 28<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'35.57831" North

Longitude 114°40'33.59593" West

Ellipsoid Height 10.080 US Survey Feet / 10.080 International Feet / 3.0724 Meters.

North 611,117.8010 US Survey Feet. / 611,119.0232 International Feet.

East 415,065.6210 US Survey Feet. / 415,066.4511 International Feet.

NAVD-1988-Elevation

121.45 US Survey Feet. / 121.45 International Feet. / 37.01803 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.  
Previous Observation Date: May 22, 2006 Previous Observer: Martin Sandoval.

NGVD-1929-Elevation

121.45 NAVD-1988

-2.15 Area Constant

119.30 US Survey Feet. / 119.30 International Feet. / 36.36272 Meters.

Latest Observation Date: February 28, 2014 Greenwich Mean Time 05:42:52 PM.

Epoch Date - 1393609372 Julian Date - 2456717.2381

Observer: Enrique S. Urbieta

BENCHMARK # 2319

Found a 1/2" diameter rebar approximately 3" below asphalt level.

This is the North 1/4, Section 26, T8S, R24W, of the Gila and Salt River Base and Meridian.

Being located at the centerline of 8<sup>th</sup> Street and Avenue D-1/2.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°42'46.70210" North

Longitude 114°41'35.59137" West

Ellipsoid Height 12.620 US survey feet, (or 3.847 meters)

North 624376.549 US survey feet

East 210121.721 US survey feet

NGVD-1929-Elevation

121.662 US survey feet, (or 37.083 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'46.70240" North

Longitude 114°41'35.59102" West

Ellipsoid Height 12.643 US survey feet, (or 3.854 meters)

North 624416.313 US survey feet

East 409884.835 US survey feet

NAVD-1988-Elevation

123.830 US survey feet, (or 37.743 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Thursday February 23, 2006

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2320

Found a 3" diameter brass cap at asphalt level LS#30348.

This is the Center of Section 25, T8S, R24W, of the Gila and Salt River Base and Meridian.

Being located at the centerline of 12<sup>th</sup> Street and Avenue C-1/2 (canal).

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°42'20.60916" North

Longitude 114°40'33.58584" West

Ellipsoid Height 14.861 US survey feet, (or 4.530 meters)

North 621692.885 US survey feet

East 215396.438 US survey feet

NGVD-1929-Elevation

123.874 US survey feet, (or 37.757 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'20.60910" North

Longitude 114°40'33.58569" West

Ellipsoid Height 14.892 US survey feet, (or 4.539 meters)

North 621732.573 US survey feet

East 415159.516 US survey feet

NAVD-1988-Elevation

126.053 US survey feet, (or 38.421 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: March 6, 2006 Greenwich Mean Time-19:34:41

Epoch Date-1141673681

Julian Date-2453801.31575

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2321

Found a 5/8" diameter rebar approximately 2" below concrete apron on the east side of canal bridge.

This is a Section 1/4 Corner being the Center 1/4 Corner of Section 26, T8S, R24W, of the Gila and Salt River Base and Meridian.

Being located at the Centerline of 12<sup>th</sup> Street and canal (Avenue D-1/2).

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°42'20.38526" North

Longitude 114°41'35.48517" West

Ellipsoid Height 21.209 US survey feet, (or 6.465 meters)

North 621716.801 US survey feet

East 210107.173 US survey feet

NGVD-1929-Elevation

130.295 US survey feet, (or 39.714 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'20.38528" North

Longitude 114°41'35.48517" West

Ellipsoid Height 21.221 US survey feet, (or 6.468 meters)

North 621756.537 US survey feet

East 409870.238 US survey feet

NAVD-1988-Elevation

132.454 US survey feet, (or 40.372 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Thursday February 27, 2006

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2322

Found prior a 1in. ID galvanized pipe , on ground level. Set a 3in. diameter brass cap LS 19329-COY-2013 properly stamped, encased in concrete, 3 inches above ground. This is the Center Quarter Corner of Sections 34, T8S, R23W, of the Gila And Salt River Base And Meridian.

Located at 20<sup>th</sup> St. and Ave. 1 1/2E

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'28.68833" North

Longitude 114°36'26.52022" West

Ellipsoid Height 75.677 US Survey Feet / 75.677 International Feet / 23.0664 Meters.

North 616,307.8950 US Survey Feet. / 616,309.1276 International Feet.

East 436,228.0290 US Survey Feet. / 436,228.9015 International Feet.

NAVD-1988-Elevation

186.65 US Survey Feet. / 186.65 International Feet. / 56.89104 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: March 03, 2006

Previous Observer: John Nye

NGVD-1929-Elevation

186.65 NAVD-1988

- 2.15 Area Constant

184.50 US Survey Feet. / 184.50 International Feet. / 56.23572 Meters.

Latest Observation Date: April 25, 2013 Greenwich Mean Time 02:25:56 PM.

Epoch Date - 1366899956

Julian Date - 2456408.10134

Observer: Enrique S. Urbietta

Under the Direct Supervision of : Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2323

Found a 2in. diameter iron pipe, with nail in center, 8in. below asphalt. Set a frame and cover over it. This is the Common Quarter Corner of Section 2 and 11, T10S, R23W, of the G. & S. R. B. & M.

Located on Ave. 2 ½E. and 80<sup>th</sup> St. ( County 17<sup>th</sup> St. )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°34'56.72307" North

Longitude 114°35'20.37935" West

Ellipsoid Height : 89.172 US Survey Feet / 89.172 International Feet / 27.1797 Meters.

North 576,649.1530 US Survey Feet / 576,650.3063 International Feet.

East 441,567.6630 US Survey Feet / 441,568.5461 International Feet.

NAVD-1988-Elevation

200.95 US Survey Feet. / 200.95 International Feet. / 61.2497 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

200.95 NAVD-1988

- 2.15 Area Constant

198.80 US Survey Feet. / 198.80 International Feet / 60.5944 Meters.

Latest Observation Date: November 28, 2012 Greenwich Mean Time 4:58:31 PM.

Epoch Date- 1354121911

Julian Date- 2456260.2073

Observer: Enrique S. Urbieta, Louis Romero and Jesse Gonzalez.

DISCLAIMER STATEMENT

Since this point is outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying from the Trimble GPS Radio Base Station at COYA, the integrity of the point's coordinates and elevations have been compromised and should be re-evaluated prior to usage by comparison to at least 2 other known points on the City of Yuma Datum within the 10 Kilometers, (6.21 miles), range of the Trimble GPS Radio Base Station at COYA, in order to verify the correct coordinates and elevations of the point in reference to the City of Yuma Datum.

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 232<sup>4</sup>

STATION S469

DB 1152

Found a 3 1/2-inch diameter brass cap stamped "VERTICAL CONTROL MARK, S469, 1981, NATIONAL GEODETIC SURVEY, WASHINGTON D.C.", set in top of the center of a small rock outcrop.

Located east of railroad tracks and southwest of the CITY OF YUMA water tanks south of 16<sup>th</sup> street.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'43.86066" North  
Longitude 114°36'37.94374" West  
Ellipsoid Height 85.563 survey feet, (or 26.080 meters)  
North 617,809.603 survey feet  
East 235,501.138 survey feet

NGVD-1929-Elevation

194.325 survey feet, (or 59.230 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'43.86069" North  
Longitude 114°36'37.94384" West  
Ellipsoid Height 85.561 survey feet, (or 26.079 meters)  
North 617,849.151 survey feet  
East 435,264.165 survey feet

NAVD-1988-Elevation

196.483 survey feet, (or 59.888 meters)

These are the results of a 30-minute Trimble RTK 4800 Observation. Using GEOID 2003.

Previous Observation Date:

Previous Observer:

Latest Observation Date: Monday, March 27, 2006.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2325  
Station RS7SB

Found a 4-inch diameter brass cap stamped R.P. No. RS7SB set by the International Boundary and Water Commission in 1969 with a large cross in center with United States on the north half and Mexico on the south half.

The brass cap had been broken away from a 5-inch diameter concrete base 3 feet deep which also had an additional 6-inch flare at the bottom 1 foot. This concrete base had been broken in half exposing a ½-inch diameter rebar. Under this concrete base was a 1-inch diameter badly decomposed iron pipe.

Reset the original brass cap with additional stamping of "COY RESET 2006, LS 19329", in a concrete base of 1 foot diameter 4 feet deep over the location of the 1-inch diameter iron pipe which remained, set a deep punch mark in center of cross.

Located approximately 300 feet south of the south bank of the Colorado River and approximately ½ mile east of the railroad bridge over the Colorado River, in the Yuma East Wetlands Park.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°43'33.98922" North  
Longitude 114°36'16.54679" West  
Ellipsoid Height 19.005 survey feet, (5.793 meters)  
North 628,924.874 survey feet  
East 237,419.192 survey feet  
NGVD-1929-Elevation  
127.611 survey feet, (or 38.896 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'33.98944" North  
Longitude 114°36'16.54689" West  
Ellipsoid Height 19.006 survey feet, (or 5.793 meters)  
North 628,964.427 survey feet  
East 437,182.302 survey feet  
NAVD-1988-Elevation  
129.764 survey feet, (or 39.552 meters)

These are the results of a 30-minute Trimble 4800 RTK Observation. Using GEOID 2003.

Previous Observation Date:

Previous Observer:

Latest Observation Date: Wednesday, March 29, 2006.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2326

Found a 2 ½" diameter brass cap stamped US Department of the Interior, Bur of Recl.  
Dated 1967, with center punch, approximately 2 feet below asphalt in pvc pipe with  
cover.

This is the North 1/4 Section 35, South 1/4 Section 26 T8S, R24W, of the Gila and Salt  
River Base and Meridian.  
Being located at 16<sup>th</sup> Street and Avenue D1/2.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'54.29593" North

Longitude 114°41'35.34832" West

Ellipsoid Height 8.046 US survey feet, (or 2.452 meters)

North 619080.026 US survey feet

East 210095.452 US survey feet

NGVD-1929-Elevation

117.180 US survey feet, (or 35.717 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'54.29587" North

Longitude 114°41'35.34826" West

Ellipsoid Height 8.048 US survey feet, (or 2.453 meters)

North 619119.754 US survey feet

East 409858.501 US survey feet

NAVD-1988-Elevation

119.330 US survey feet, (or 36.372 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Friday March 31, 2006.

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2327

Found a 1/2 inch diameter rebar approximately 3" below asphalt.

This is a Section Corner being the  
Southeast Corner of Section 22, T8S, R24W;  
Southwest Corner of Section 23, T8S, R24W;  
Northeast Corner of Section 27, T8S, R24W;  
Northwest Corner of Section 26, T8S, R24W;  
of the Gila and Salt River Base and Meridian.

Being located at the intersection of 8<sup>th</sup> Street and Avenue E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°42'46.56914" North

Longitude 114°42'06.57459" West

Ellipsoid Height 9.825 US survey feet, (or 2.995 meters)

North 624386.729 US survey feet

East 207474.417 US survey feet

NGVD-1929-Elevation

118.901 US survey feet, (or 36.241 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'46.56902" North

Longitude 114°42'06.57578" West

Ellipsoid Height 9.620 US survey feet, (or 2.932 meters)

North 624426.472 US survey feet

East 407237.400 US survey feet

NAVD-1988-Elevation

120.839 US survey feet, (or 36.832 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Thursday April 6, 2006

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2328  
BANK 2 RESET

Found a 3" diameter brass cap stamped US COAST & GEODETIC SURVEY, BANK 2  
RESET, set in 12" sq. concrete approximately 8 inches above ground.

Being located approximately 200 feet north of Interstate 8 and 1 mile west of Araby  
Road. (AVE 5 1/2 E)

NAD-1927-Coordinates (Arizona West Zone 0203)  
Latitude 32°40'37.61867" North  
Longitude 114°32'04.44814" West  
Ellipsoid Height 105.558 US survey feet, (or 32.174 meters)  
North 610933.928 US survey feet  
East 258823.723 US survey feet

NGVD-1929-Elevation  
214.348 US survey feet, (or 65.333 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32°40'37.61866" North  
Longitude 114°32'04.44804" West  
Ellipsoid Height 105.577 US survey feet, (or 32.180 meters)  
North 610973.298 US survey feet  
East 458586.715 US survey feet

NAVD-1988-Elevation  
216.539 US survey feet, (or 66.001 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation. Using Geoid 2003.

Latest Observation Date: Thursday April 6, 2006.  
Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



# BENCHMARK # 2329

STATION

~~BENCHMARK T353~~

DB0213

DIA.

BRASS

SUPPORT

Found 4-inch U.S. Coast & Geodetic Survey Benchmark, located underneath the most **EASTERLY** East bridge on 16<sup>th</sup> Street in the wall of the East-center bridge column facing West about two feet above the ground. **UNABLE TO OCCUPY, USED TWO REFERENCE NAILS.**

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'54.89419" North

Longitude 114°36'42.49696" West

Ellipsoid Height 65.527 U.S. Survey Feet, (or 20.424 meters)

North 618,927.847 U.S. Survey Feet

East 235,121.084 U.S. Survey Feet

NGVD-1929-Elevation: 174.277 U.S. Survey Feet, (or 53.12 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'54.89363" North

Longitude 114°36'42.49455" West

Ellipsoid Height 65.541 U.S. Survey Feet, (or 19.976 meters)

North 618,967.337 U.S. Survey Feet

East 434,884.333 U.S. Survey Feet

NAVD-1988-Elevation: 176.45 U.S. Survey Feet, (or 53.782 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation with 2003 Geoid.

Observation Date: April 4, 2006.

Observer: Louis Romero

Under the Direct Supervision of: Larry R. Dresden,

Professional Registered Land Surveyor:

Arizona License #19329,

California License #5643

*Larry R. Dresden*  
REGISTERED LAND SURVEYOR  
19329  
LARRY R. DRESDEN  
APR 11 2006  
ARIZONA U.S.A.

BENCHMARK # 2330  
STATION U469 (NGS)  
PID# DB 1150

Found a stainless steel rod in handhole with hinged lid, properly stamped.

Being located approximately at 5 1/2E and railroad tracks, and East 216' from dirt road and 28' south of the south railroad track.

NAD-1927-Coordinates (Arizona West Zone 0203)  
Latitude 32°40'26.60543" North  
Longitude 114°32'01.10616 West  
Ellipsoid Height 102.218 US survey feet, (or 31.156 meters)  
North 609818.777 US survey feet  
East 259101.166 US survey

NGVD-1929-Elevation  
211.03 US survey feet, (or 64.322 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32°40'26.60550" North  
Longitude 114°32'01.10598" West  
Ellipsoid Height 102.150 US survey feet, (or 31.135 meters)  
North 609858.153 US survey feet  
East 458864.157 US survey feet

NAVD-1988-Elevation  
213.14 US survey feet, (or 64.965 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation with 2003 Geoid.

Latest Observation Date: June 2, 2006  
Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK #2331

Found a 2-inch pipe 6" below dirt road, set 3-inch brass cap in concrete with 6-inch pvc collar. Stamped City of Yuma, T9S, R23W, S17, ~~S~~1/4, 2006, LS# 19329. Located approximately 100' East of Co. 13<sup>th</sup> Street and Carlota Ave. Being the ~~C174~~ Corner of Section 17, T9S, R23W. (AVE A 1/2 & THE CITY ~~44<sup>th</sup> ST~~)

*48<sup>th</sup> S1/4  
FOUND  
DESTROYED  
9-03-08  
BUILT A SIPHON  
UNDER DEATH LT.*

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°38'25.00939" North  
Longitude 114°38'43.09036" West  
Ellipsoid Height 6.438 U.S. Survey Feet, (or 1.96 meters)  
North 597,791.574 U.S. Survey Feet  
East 225,816.512 U.S. Survey Feet

NGVD-1929-Elevation: 115.662 U.S. Survey Feet, (or 35.25 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'25.00942" North  
Longitude 114°38'29.29819" West  
Ellipsoid Height 6.459 U.S. Survey Feet, (or 1.97 meters)  
North 597,831.194 U.S. Survey Feet  
East 425,579.41 U.S. Survey Feet

NAVD-1988-Elevation: 117.85 U.S. Survey Feet, (or 35.92 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation with 2003 Geoid.

Observation Date: Tuesday, June 20, 2006

Observer: Louis A. Romero

Under The Direct Supervision of: Larry R. Dresden,  
Professional Registered Land Surveyor:  
Arizona License #19329  
California License #5643

*Larry R. Dresden*  


BENCHMARK # 2332

On June 20, 2006 was found a 1/2in rebar with plastic cap LS 6022. City of Yuma, survey crew re-set it with a 3in. dia. brass cap, LS 19329-COY-2006, properly stamped. This was set at true intersection point. Found a 3in. dia. cap, LS 19329-COY-2006, properly stamped, inside a 6in. dia. PVC pipe, encased in concrete with survey lid, 6in. below ground. This is the Center Quarter Corner of Section 17, T9S, R23W of the Gila And Salt River Base And Meridian.

Located at Ave. A 1/2 and 44<sup>th</sup> St. Alignment.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'51.26089" North

Longitude 114°38'29.30105" West

Ellipsoid Height 5.118 US Survey Feet / 5.118 International Feet / 1.55997 Meters.

North 600,483.9890 US Survey Feet. / 600,485.1900 International Feet.

East 425,601.3300 US Survey Feet. / 425,602.1812 International Feet.

NAVD-1988-Elevation

116.52 US Survey Feet. / 116.52 International Feet. / 35.51537 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: June 20, 2006

Previous Observer: John Nye

NGVD-1929-Elevation

116.52 NAVD-1988

-2.15 Area Constant

114.37 US Survey Feet. / 114.37 International Feet. / 34.86005 Meters.

Latest Observation Date: April 03, 2014 Greenwich Mean Time 04:38:16 PM.

Epoch Date - 1396543096

Julian Date - 2456751.19324

Observer: Enrique S. Urbieto

BENCHMARK # 2333

Found a 3-inch diameter brass cap stamped "LS 22767, 2005" flush with the asphalt road surface.

This is a Section Corner being the Center ¼ Corner of Section 27, T8S, R23W, of the Gila and Salt River Base and Meridian.

NAD-1927-Coordinates (Arizona West Zone)

Latitude 32°42'20.95012" North  
Longitude 114°36'26.66636" West  
Ellipsoid Height 24.053 survey feet, (or 7.331meters)  
North 621,550.212 survey feet  
East 236,495.120 survey feet  
NGVD-1929-Elevation  
132.749 survey feet, (or 40.462 meters)

NAD-1983-Coordinates (Arizona West Zone)

Latitude 32°42'20.95020" North  
Longitude 114°36'26.66642" West  
Ellipsoid Height 24.083 survey feet, (or 7.341 meters)  
North 621,589.758 survey feet  
East 436,258.179 survey feet  
NAVD-1988-Elevation  
134.258 survey feet, (or 41.128 meters)

Located at the centerline of 12<sup>th</sup> Street and Castle Dome Avenue.

GPS Time Stamp

Gregorian: Wednesday, June 28, 2006 / 179/2006  
Julian Date: 2453914.82988  
Greenwich Mean Time: 14:55:02  
Mountain Standard Time: 07:55:02  
Epoch Date: 1151506502

These are the results of a 30-minute Trimble 4800 RTK Observation. Using GEOID 2003.

Latest Observation Date: Wednesday, June 28, 2006.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2334

Found a 3in. diameter Brass Cap LS 22767-1999, properly stamped, encased in concrete, 6 inches below asphalt, in frame and cover. This is the common Section Corner of Sections 1, 2, 11 and 12, T9S, R23W, of the Gila And Salt River Base And Meridian.

Located in the intersection of Ave. 3E and 32<sup>nd</sup> St., in left turn lane traveling West on 32<sup>nd</sup> St. and turning South onto Ave. 3E.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'10.70514" North

Longitude 114°34'53.03976" West

Ellipsoid Height 104.528 US Survey Feet / 104.528 International Feet / 31.86021 Meters.

North 608,362.967 US Survey Feet. / 608,364.1837 International Feet.

East 444,155.248 US Survey Feet. / 444,156.1363 International Feet.

NAVD-1988-Elevation

215.60 US Survey Feet. / 215.60 International Feet. / 65.71502 Meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: June 30,2006 Previous Observer: John Nye, Louis Romero

NGVD-1929-Elevation

215.60 NAVD-1988

- 2.15 Area Constant

213.45 US Survey Feet. / 65.0597 Meters.

Latest Observation Date: December 23, 2010 Greenwich Mean Time-09:19:00 PM.

Epoch Date-1293139140

Julian Date- 2455554.38819

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2335

Found a 2½" diameter aluminum cap in hand hole, stamped YCHD with center punch.

Being located at County 12-1/2 (City 44<sup>th</sup> Street) and Avenue 3E, *in North Travel Lane of Ave 3E.*

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°38'52.18428" North

Longitude 114°34'52.24098" West

Ellipsoid Height 102.692 US survey feet, (or 31.301 meters)

North 600387.443 US survey feet

East 244398.362 US survey

NGVD-1929-Elevation

211.688 US survey feet, (or 64.523 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'52.18392" North

Longitude 114°34'52.24113" West

Ellipsoid Height 102.710 US survey feet, (or 31.306 meters)

North 600426.886 US survey feet

East 444161.255 US survey feet

NAVD-1988-Elevation

213.880 US survey feet, (or 65.191 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation with 2003 Geoid.

Latest Observation Date: June 30, 2006 *aka 181/2006 Gregorian Date* Greenwich Mean Time-18:05:51

Epoch Date-1151690751

Julian Date- 2453917.25406

Observer: John Nye, Louis Romero

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License #5643



BENCHMARK # 2336

Found a 3" diameter brass cap at asphalt level, center punch, LS number is defaced.

Being located at County 12 1/2 (City 44th Street) and Avenue 4E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°38'52.71347" North

Longitude 114°33'50.02574" West

Ellipsoid Height 96.633 US survey feet, (or 29.454 meters)

North 600399.731 US survey feet

East 249718.305 US survey

NGVD-1929-Elevation

205.639 US survey feet, (or 62.679 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'52.71402" North

Longitude 114°33'50.02548" West

Ellipsoid Height 96.560 US survey feet, (or 29.432 meters)

North 600439.226 US survey feet

East 449481.234 US survey feet

NAVD-1988-Elevation

207.742 US survey feet, (or 63.320 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation with 2003 Geoid.

Latest Observation Date: July 17, 2006 Greenwich Mean Time-19:26:50

Epoch Date-1153164410

Julian Date-2453934.3103

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2337

Found previously a 3" diameter Brass cap LS 16626, with punch mark in frame and cover, which was cover with new asphalt after a water line replacement on 40<sup>th</sup>. Street. Set a 3in. diameter Brass cap LS 19329-COY-2010, properly stamped, in fame and cover, This is the common Section Corner, for Sections 7 and 18, T9S, R22W, and Sections 12 and 13, T9S, R23W, of the Gila And Salt River Base And Meridian.

Located in the intersection of Ave 4E and 40<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'18.93042" North

Longitude 114°33'50.34499" West

Ellipsoid Height 101.967 US survey feet / 101.967 International feet / 31.07961 meters.

North 603,088.862 US survey feet / 603,090.0682 International feet.

East 449,474.393 US survey feet / 449,475.2920 International feet.

NAVD-1988-Elevation

213.17 US survey feet. / 213.17 International feet. / 64.9744 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: March 05, 2007 Previous Observer: Enrique S. Urbieta

NGVD-1929-Elevation

213.17 NAVD-1988

-2.15 Area Constant

211.02 US survey feet. / 64.3191 meters.

Latest Observation Date: December 09, 2010 Greenwich Mean Time-04:27:17 PM.

Epoch Date-1291912037

Julian Date- 2455540.18561

Observer: Enrique S. Urbieta

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2338

Found a 3/4" diameter pipe approx. 3" below asphalt. Set PK nail with brass tag stamped City of Yuma LS 19329 in pipe.

Being located at County 13 1/2 (City 52nd Street) and Avenue 4E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°38'00.36358" North

Longitude 114°33'49.36947" West

Ellipsoid Height 95.595 US survey feet, (or 29.137 meters)

North 595108.653 US survey feet

East 249733.886 US survey

NGVD-1929-Elevation

204.710 US survey feet, (or 62.396 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'00.36361" North

Longitude 114°33'49.36902" West

Ellipsoid Height 95.714 US survey feet, (or 29.174 meters)

North 595148.095 US survey feet

East 449496.791 US survey feet

NAVD-1988-Elevation

207.008 US survey feet, (or 63.096 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation with 2003 Geoid.

Latest Observation Date: July 20, 2006 Greenwich Mean Time-18:32:51

Epoch Date-1153420371

Julian Date-2453937.27281

Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2339

Found a 3" diameter brass cap broken off in hand hole. Reset to asphalt level. Stamped Bureau of Reclamation with center punch.

Being located at Avenue 4E and County 13th (City 48th Street).

This is a Section Corner being the  
Southeast Corner of Section 13, T9S, R23W;  
Southwest Corner of Section 18, T9S, R22W;  
Northeast Corner of Section 24, T9S, R23W;  
Northwest Corner of Section 19, T9S, R22W;  
of the Gila and Salt River Base and Meridian.

NAD-1927-Coordinates (Arizona West Zone 0203)  
Latitude 32°38'26.50477" North  
Longitude 114°33'49.70966" West  
Ellipsoid Height 95.27 US survey feet, (or 29.038 meters)  
North 597750.787 US survey feet  
East 249725.037 US survey feet

NGVD-1929-Elevation  
204.332 US survey feet, (or 62.281 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32°38'26.50435" North  
Longitude 114°33'49.70925" West  
Ellipsoid Height 95.418 US survey feet, (or 29.083 meters)  
North 597790.184 US survey feet  
East 449487.958 US survey feet

NAVD-1988-Elevation  
206.657 US survey feet, (or 62.989 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation with 2003 Geoid.

Latest Observation Date: August 3, 2006 Greenwich Mean Time-14:58:33  
Epoch Date-1154617113  
Julian Date-2453951.12399  
Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2340

Found a 2 ½-inch diameter brass cap stamped "U.S. DEPARTMENT OF THE INTERIOR, 1967", in a hand hole approximately 18 inches below the asphalt road surface.

Located at the southbound driving lane of Avenue "D" and 20<sup>th</sup> Street intersection.

This is a Section Corner being the

East ¼ Corner of Section 35, T8S, R24W;

West ¼ Corner of Section 36, T8S, R24W, of the Gila and Salt River Base and Meridian.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'27.88195" North  
Longitude 114°41'04.52974" West  
Ellipsoid Height 9.404 U.S. survey feet, (or 2.866 meters)  
North 616,387.265 U.S. survey feet  
East 212,705.506 U.S. survey feet

NGVD-1929-Elevation

118.548 U.S. survey feet, (or 36.134 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'27.88184" North  
Longitude 114°41'04.52961" West  
Ellipsoid Height 9.371 U.S. survey feet, (or 2.856 meters)  
North 616,426.968 U.S. survey feet  
East 412,468.541 U.S. survey feet

NAVD-1988-Elevation

120.667 U.S. survey feet, (or 36.779 meters)

GPS Time Stamp

Gregorian: Tuesday, July 25, 2006/ 206/2006

Julian Date: 2,453,941.91434

Greenwich Mean Time: 16:56:39

Mountain Standard Time: 09:56:39

Epoch Date: 1,153,846,599

These are the results of a 30-minute Trimble 4800 RTK Observation. Using GEOID 2003.

Latest Observation Date: Tuesday, July 25, 2006.

Observer: Martin Sandoval.

Under the direct supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License # 19329

California License # 5643



BENCHMARK # 2341

Found a 2 1/2-inch diameter brass cap stamped "YUMA COUNTY WATER USERS ASSN., T8S, R24W, 25, 1966", in a hand hole approximately 18 inches below the asphalt road surface.

Located at the northbound driving lane of Avenue "D" and Clip Street intersection. (12<sup>TH</sup> ST.)

This is a Section Corner being the  
West ¼ Corner of Section 25, T8S, R24W;  
East ¼ Corner of Section 26, T8S, R24W, of the Gila and Salt River Base and Meridian.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°42'20.50225" North  
Longitude 114°41'04.48751" West  
Ellipsoid Height 9.712 U.S. survey feet, (or 2.960 meters)  
North 621,705.209 U.S. survey feet  
East 212,755.911 U.S. survey feet

NGVD-1929-Elevation

118.762 U.S. survey feet, (or 36.199 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'20.50243" North  
Longitude 114°41'04.48753" West  
Ellipsoid Height 9.699 U.S. survey feet, (or 2.956 meters)  
North 621,744.942 U.S. survey feet  
East 412,518.975 U.S. survey feet

NAVD-1988-Elevation

120.897 U.S. survey feet, (or 36.850 meters)

GPS Time Stamp

Gregorian: Tuesday, July 25, 2006/ 206/2006

Julian Date: 2,453,942.00307

Greenwich Mean Time: 19:04:25

Mountain Standard Time: 12:04:25

Epoch Date: 1,153,854,265

These are the results of a 30-minute Trimble 4800 RTK Observation. Using GEOID 2003.

Latest Observation Date: Tuesday, July 25, 2006.

Observer: Martin Sandoval.

Under the direct supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License # 19329

California License # 5643



BENCHMARK # 2342

Found a 2 1/2-inch diameter brass cap stamped "BUREAU OF RECLAMATION, T8S, R24W, 25, 26, 35, 36, 1967", in a hand hole approximately 16 inches below the asphalt road surface.

Located at the southbound driving lane of Avenue "D" and 16<sup>th</sup> Street intersection.

This is a Section Corner being the  
Southwest Corner of Section 25, T8S, R24W;  
Southeast Corner of Section 26, T8S, R24W;  
Northeast Corner of Section 35, T8S, R24W;  
Northwest Corner of Section 36, T8S, R24W, of the Gila and Salt River Base and Meridian.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'54.18146" North  
Longitude 114°41'04.36056" West  
Ellipsoid Height 11.598 U.S. survey feet, (or 3.535 meters)  
North 619,045.049 U.S. survey feet  
East 212,743.352 U.S. survey feet  
NGVD-1929-Elevation  
120.695 U.S. survey feet, (or 36.788 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'54.18178" North  
Longitude 114°41'04.35999" West  
Ellipsoid Height 11.632 U.S. survey feet, (or 3.545 meters)  
North 619,084.795 U.S. survey feet  
East 412,506.446 U.S. survey feet  
NAVD-1988-Elevation  
122.878 U.S. survey feet, (or 37.453 meters)

GPS Time Stamp

Gregorian: Wednesday, July 26, 2006/ 207/2006

Julian Date: 2,453,942.95133

Greenwich Mean Time: 17:49:55

Mountain Standard Time: 10:49:55

Epoch Date: 1,153,936,195

These are the results of a 30- minute Trimble 4800 RTK Observation. Using GEOID 2003.

Latest Observation Date:

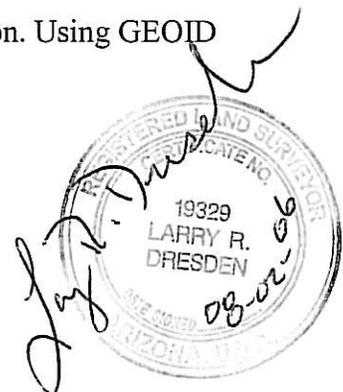
Observer: Martin Sandoval.

Under the direct supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License # 19329

California License # 5643



BENCHMARK # 2343

Found prior a 1 1/4in. spike approximately an inch below the asphalt surface, closely matching the B. of R. Balanced Section. Found a 1 1/4in. steel rod, 2in. below asphalt. This is Common Corner of Sections 23, 24, 25 & 26 T8S, R24W of the Gila And Salt River Base And Meridian.

Located at the intersection of 8<sup>th</sup> Street and Ave. D.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'46.83791" North

Longitude 114°41'04.60461" West

Ellipsoid Height 19.031 US Survey Feet / 19.031 International Feet / 5.800661 Meters.

North 624,406.9110 US Survey Feet / 624,408.1598 International Feet.

East 412,532.0120 US Survey Feet / 412,532.8371 International Feet.

NAVD-1988-Elevation

130.18 US Survey Feet. / 130.18 International Feet. / 39.6790 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: August 1, 2006 Previous Observer: Martin Sandoval.

NGVD-1929-Elevation

130.18 NAVD 1988

-2.15 Area Constant

128.03 U.S. Survey Feet / 128.03 International Feet.

Latest Observation Date: June 24, 2014 Greenwich Mean Time 01:50:56 PM.

Epoch Date-1403617856

Julian Date- 2456833.07704

Observer: Enrique S. Urbietta, Louis Romero, Jesse Gonzalez and Craig Granquist.

BENCHMARK # 2344

Found a 1 1/2-inch diameter surv cap in a 10-inch diameter PVC pipe with cover, approximately 18 inches below the asphalt road surface.

Located at the centerline of 16<sup>th</sup> Street and Avenue E.

This is a Section Corner being the  
Southwest Corner of Section 26, T8S, R24W;  
Southeast Corner of Section 27, T8S, R24W;  
Northeast Corner of Section 34, T8S, R24W;  
Northwest Corner of Section 35, T8S, R24W, of the Gila and Salt River Base and Meridian.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'53.96777" North  
Longitude 114°42'06.58502" West  
Ellipsoid Height 9.145 U.S. survey feet, (or 2.787 meters)  
North 619,070.675 U.S. survey feet  
East 207,425.881 U.S. survey feet

NGVD-1929-Elevation

118.316 U.S. survey feet, (or 36.063 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'53.96775" North  
Longitude 114°42'06.58500" West  
Ellipsoid Height 9.125 U.S. survey feet, (or 2.781 meters)  
North 619,110.427 U.S. survey feet  
East 407,188.927 U.S. survey feet

NAVD-1988-Elevation

120.444 U.S. survey feet, (or 36.711 meters)

GPS TIME STAMP

Gregorian: Monday, August 14, 2006/ 226/2006

Julian Date: 2,453,961.96015

Greenwich Mean Time: 18:02:37

Mountain Standard Time: 11:02:37

Epoch Date: 1,155,578,557

These are the results of a 30-minute Trimble 4800 RTK Observation. Using GEOID 2003.

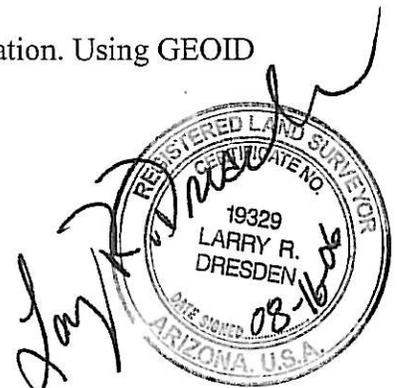
Observer: Martin Sandoval.

Under the direct supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License # 19329

California License # 5643



BENCHMARK # 2345

Found a 1/2 -inch diameter rebar with flagging, approximately 2 inches below the asphalt road surface.

Located at the southbound driving lane of Avenue E and Clip Street intersection. (12<sup>TH</sup> ST.)

This is a Section Corner being the  
West ¼ Corner of Section 26, T8S, R24W;  
East ¼ Corner of Section 27, T8S, R24W, of the Gila and Salt River Base and Meridian.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°42'20.26653" North  
Longitude 114°42'06.58169" West  
Ellipsoid Height 8.606 U.S. survey feet, (or 2.623 meters)  
North 621,728.507 U.S. survey feet  
East 207,449.986 U.S. survey feet

NGVD-1929-Elevation

117.727 U.S. survey feet, (or 35.883 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'20.26667" North  
Longitude 114°42'06.58142" West  
Ellipsoid Height 8.623 U.S. survey feet, (or 2.628 meters)  
North 621,768.275 U.S. survey feet  
East 407,213.074 U.S. survey feet

NAVD-1988-Elevation

119.890 U.S. survey feet, (or 36.543 meters)

GPS-Time Stamp

Gregorian: Wednesday, August 9, 2006/ 221/2006

Julian Date: 2,453,956.99818

Greenwich Mean Time: 18:57:23

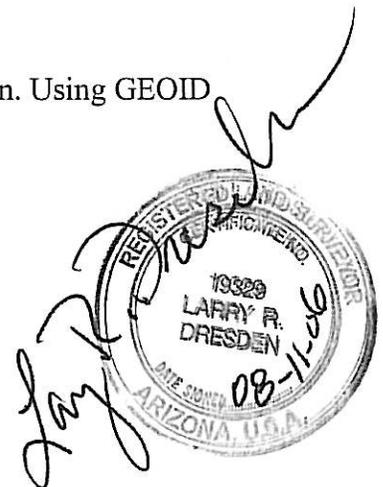
Mountain Standard Time: 11:57:23

Epoch Date: 1,155,149,843

These are the results of a 30-minute Trimble 4800 RTK Observation. Using GEOID 2003.

Observer: Martin Sandoval.

Under the direct supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2346

Found a 1/2" bar approx. 3" below asphalt, on the west side of the southbound lane.

Being located at County 12 1/2 (City 44th Street) and Avenue C.

This is a 1/4 Corner being the  
East Corner of Section 13, T9S, R24W;  
West Corner of Section 18, T9S, R23W;  
of the Gila and Salt River Base and Meridian

NAD-1927-Coordinates (Arizona West Zone 0203)  
Latitude 32°38'50.81238" North  
Longitude 114°40'01.92163" West  
Ellipsoid Height 5.479 US survey feet, (or 1.670 meters)  
North 600466.719 US survey feet  
East 217918.930 US survey

NGVD-1929-Elevation  
114.799 US survey feet, (or 34.991 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32°38'50.81254" North  
Longitude 114°40'01.92161" West  
Ellipsoid Height 5.444 US survey feet, (or 1.660 meters)  
North 600506.412 US survey feet  
East 417681.837 US survey feet

NAVD-1988-Elevation  
116.926 US survey feet, (or 35.639 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation with 2003 Geoid.

Latest Observation Date: August 10, 2006 Greenwich Mean Time-19:13:29  
Epoch Date-1155237209  
Julian Date-2453958.30103  
Observer: John Nye

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2347

Boundry Pt. 31 AZ/CA  
DB 1343

Found a 3" diameter brass cap with punch mark. pt. # 31 of the AZ/CA Boundary Plat dated April 06, 1964 as per U.S. DEPARTMENT OF THE INTERIOR BUR. OF LAND MANAGEMENT. Brass cap. 6" below ground level in concrete. ~~ON MISSION HILL WEST SIDE OF PAVEMENT AT CORNER OF STONE WALL, NORTH OF MISSION & EAST OF MURIAS MISSION~~  
NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°43'47.89922" North  
Longitude 114°36'56.89193" West  
Ellipsoid Height 45.037 US survey feet./ 13.727 meters  
North 630,358.629 sft.  
East 233,984.077 sft .

NAVD-1929-Elevation  
153.66 sft. / 46.836 meters.

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32°43'47.89964" North  
Longitude 114°36'56.89173" West  
Ellipsoid Height 45.035 US survey feet / 45.035 International feet / 13.727 meters.  
North 630,398.19 US survey feet./ 630,396.93 International feet.  
East 433,747.22 US survey feet / 433,746.36 International feet.

NAVD-1988-Elevation  
155.81 US survey feet. / 155.81 International feet. / 47.491 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.  
Previous Observation Date:  
Previous Observer:

Latest Observation Date: January 05, 2007 Greenwich Mean Time-04:15:47 PM.  
Epoch Date-1168013747  
Julian Date- 2454105.67763  
Observer: Enrique S. Urbietta

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona Licence #19329  
California Licence # 5643



BENCHMARK # 2348

Found previously a 3in. dia. Brass Cap, LS 19329-COY-2006, in concrete, properly stamped, in frame and cover. After asphalt replacement project this was replaced by a 3in. Brass cap LS 22767-DRA-2013, properly stamped in frame and cover, 6in. below asphalt. This is the Center Quarter Corner of Sections 4, T9S, R23W of the Gila & Salt River Base and Meridian.

Located on 4<sup>th</sup> Ave. and 28<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'35.99753" North

Longitude 114°37'28.29433" West

Ellipsoid Height : 81.541 US Survey Feet / 81.541 International Feet / 24.85375 Meters.

North 611,025.7950 US Survey Feet / 611,027.0171 International Feet.

East 430,904.8170 US Survey Feet / 430,905.6788 International Feet.

NAVD-1988-Elevation

192.68 US Survey Feet. / 192.68 International Feet. / 58.7290 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: January 05, 2007      Previous Observer: Enrique S. Urbieta.

NGVD-1929-Elevation

192.68 NAVD-1988

-2.15 Area Constant

190.53 US Survey Feet. / 58.07367 Meters.

Latest Observation Date: February 05, 2014 Greenwich Mean Time 5:48:18 PM.

Epoch Date- 1391622498

Julian Date- 2456694.24187

Observer: Enrique S. Urbieta.

BENCHMARK # 2349

Found a 2" diameter aluminum cap in hand hole, stamped ychd.

Being located at 3E and County 13th (City 48th Street).

This is a Section Corner being the  
Southwest Corner of Section 13, T8S, R23W;  
Southeast Corner of Section 14, T8S, R23W;  
Northeast Corner of Section 23, T8S, R23W;  
Northwest Corner of Section 24, T8S, R23W;  
of the Gila and Salt River Base and Meridian

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32°38'25.96348" North  
Longitude 114°34'52.29412" West  
Ellipsoid Height 100.650 US survey feet, (or 30.678 meters)  
North 597776.844 US survey feet  
East 444136.120 US survey feet

NAVD-1988-Elevation  
211.958 US survey feet, (or 64.605 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation with 2003 Geoid.

Latest Observation Date: January 23, 2007 Greenwich Mean Time-16:55:10  
Epoch Date-1169571310  
Julian Date-2454124.20498  
Observer: John Nye

NAVD 1988 Elevation 211.958-2.150 = NGVD 1929 Elevation 209.808 US survey feet, (or 63.950 meters)

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2350

Found a 3" diameter brass cap in hand hole, stamped Bureau of Reclamation.

Being located at 3-1/2E and County 13th (City 48th Street).

This is a 1/4 Corner being the  
South 1/4 Corner of Section 13, T8S, R23W;  
North 1/4 Corner of Section 24, T8S, R23W;  
of the Gila and Salt River Base and Meridian

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'26.23478" North

Longitude 114°34'20.99951" West

Ellipsoid Height 94.774 US survey feet, (or 28.887 meters)

North 597783.431 US survey feet

East 446812.322 US survey feet

NAVD-1988-Elevation

206.088 US survey feet, (or 62.816 meters)

These are the results of a 30 minute Trimble 4800 RTK Observation with 2003 Geoid.

Latest Observation Date: January 23, 2007 Greenwich Mean Time-18:18:16

Epoch Date-1169576296

Julian Date-2454124.26269

Observer: John Nye

NAVD 1988 Elevation 206.088-2.150 = NGVD 1929 Elevation 203.938 US survey feet, (or 62.160 meters)

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License #5643



BENCHMARK # 2351

Set a 3" diameter. Brass cap with punchmark. COY LS 19329-2007. Center 1/4 of Section 13 T9S,R23W of the Gila And Salt River Base And Meridian.

Located at : The intersection of Ave. 3 1/2 E. And Co. 12 1/2 E.

NAD-1983-Coordinates (Arizona West Zone 0203)

Lattitude 32°38'52.44993" North

Longitude 114°34'21.12942" West

Ellipsoid Height 105.314 US survey feet /105.313 International feet /32.11 meters.

North 600433.042 US survey feet./ 600431.841 International feet.

East 446821.579 US survey feet / 446820.685 International feet.

NAVD-1988-Elevation

216.49 US survey feet. / 216.49 International feet. / 66.00 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

216.49-2.15= 214.34 U.S. Survey Feet.

Latest Observation Date: February, 07, 2007 Greenwich Mean Time-07:04:49 PM.

Epoch Date-1170883802

Julian Date- 2454138.79501

Observer: Enrique S. Urbieta

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2352

Set 3" Diameter brass cap properly stamped with City of Yuma LS 19329, dated 2007.

Being located approximately 1605.00 feet West of 12<sup>th</sup> Avenue and 650.00 feet north of Colorado Street.

This is a ¼ Section Corner being the  
South Quarter Corner of Section 27, T16S, R22E;  
North Quarter Corner of Section 34, T16S, R22E;  
of the San Bernardino Base and Meridian

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32°43'43.74805" North  
Longitude 114°38'22.71470" West  
Ellipsoid Height 20.621 US survey feet, (or 6.285 meters)  
North 630039.303 US survey feet  
East 426412.455 US survey feet

NAVD-1988-Elevation  
131.485 US survey feet, (or 40.077 meters)

These are the results of a 30 minute Trimble 5800 RTK Observation with 2003 Geoid.

Latest Observation Date: March 2, 2007 Greenwich Mean Time-19:03:06  
Epoch Date-1172862186  
Julian Date-2454162.29382  
Observer: John Nye

NGVD 1929 Elevation calculated as follows:  
131.485 (NAVD 1988 Elevation)  
-2.150 (Yuma area mean difference)  
129.335 = NGVD 1929 Elevation.

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2353

Set 3" Diameter brass cap properly stamped with City of Yuma LS 19329, dated 2007.

Being located approximately 95.00 feet West of 9<sup>th</sup> Avenue and 650.00 feet north of Colorado Street.

This is a Section Corner being the  
Southwest Corner of Section 26, T16S, R22E;  
Southeast Corner of Section 27, T16S, R22E;  
Northeast Corner of Section 34, T16S, R22E;  
Northwest Corner of Section 35, T16S, R22E;  
of the San Bernardino Base and Meridian

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32°43'43.85052" North  
Longitude 114°37'51.68815" West  
Ellipsoid Height 23.369 US survey feet, (or 7.123 meters)  
North 630027.545 US survey feet  
East 429062.978 US survey feet

NAVD-1988-Elevation  
134.204 US survey feet, (or 40.905 meters).

These are the results of a 30 minute Trimble 5800 RTK Observation with 2003 Geoid.

Latest Observation Date: March 2, 2007 Greenwich Mean Time-19:47:11  
Epoch Date-1172864831  
Julian Date-2454162.32443  
Observer: John Nye

NGVD 1929 Elevation calculated as follows:  
134.204 (NAVD 1988 Elevation)  
-2.150 (Yuma area mean difference)  
132.054 = NGVD 1929 Elevation.

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2354

Set 3" Diameter brass cap properly stamped with City of Yuma LS 19329, dated 2007.

Being located approximately 95.00 feet West of 9<sup>th</sup> Avenue and 227.00 feet South of 1st Street in an asphalt parking lot.

This is a Section Corner being the Southwest Corner of Section 35, T16S, R22E; Southeast Corner of Section 34, T16S, R22E, of the San Bernardino Base and Meridian Common to the North line of Section 21, T8S, R23W, of the Gila and Salt River Base and Meridian.

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32°43'28.49833" North  
Longitude 114°37'51.84969" West  
Ellipsoid Height 22.376 US survey feet, (or 6.820 meters)  
North 628476.100 US survey feet  
East 429036.295 US survey feet

NAVD-1988-Elevation  
133.230 US survey feet, (or 40.609 meters).

These are the results of a 30 minute Trimble 5800 RTK Observation with 2003 Geoid.

Latest Observation Date: March 5, 2007 Greenwich Mean Time-19:15:33  
Epoch Date-1173122133  
Julian Date-2454165.30247  
Observer: John Nye

NGVD 1929 Elevation calculated as follows:  
133.230 (NAVD 1988 Elevation)  
-2.150 (Yuma area mean difference)  
131.08 = NGVD 1929 Elevation.

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK # 2355

Found a 1 inch diameter Iron Pipe, 18 inches below asphalt. Set a frame and cover on it. This is the Common Corner of Sections 2, 3, 10 and 11, T10S, R23W, of the Gila And Salt River Base And Meridian.

Located at Ave. 2E and 80<sup>th</sup>. St. (Co. 17<sup>th</sup>. Street)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°34'56.46990" North

Longitude 114°35'51.39015" West

Ellipsoid Height 87.044 US Survey Feet / 87.044 International Feet / 26.5311 Meters.

North 576,644.9050 US Survey Feet. / 576,646.0583 International Feet.

East 438,913.6700 US Survey Feet. / 438,914.5478 International Feet.

NAVD-1988-Elevation

198.79 US Survey Feet. / 198.79 International Feet. / 60.59132 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:                      Previous Observer:

NGVD-1929-Elevation

198.79 NAVD-1988

- 2.15 Area Constant

196.64 US Survey Feet. / 196.64 International Feet. / 59.9360 Meters.

Latest Observation Date: January 03, 2013 Greenwich Mean Time 04:31:01 PM.

Epoch Date - 1357230661

Julian Date - 2456296.18821

Observer: Enrique S. Urbieta and Jesus Gonzalez.

DISCLAIMER STATEMENT

Since this point is outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying from the Trimble GPS Radio Base Station at COYA, the integrity of the point's coordinates and elevations have been compromised and should be re-evaluated prior to usage by comparison to at least 2 other known points on the City of Yuma Datum within the 10 Kilometers, (6.21 miles), range of the Trimble GPS Radio Base Station at COYA, in order to verify the correct coordinates and elevations of the point in

Under the Direct Supervision of:

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2356

BOUNDRY PT. 29 AZ/CA  
DB 1323

Found a 3" diameter brass cap with punch mark. PT. # 29 of the AZ/CA Boundary Plat dated April 06, 1964 as per U.S. DEPARTMENT OF THE INTERIOR BUR. OF LAND MANAGEMENT. 1' below ground 1' Northeast of rock fence's Northeast corner. Found rotated 90° Counter Clockwise instead of being read from the south to the north. *ON MISSION HILL WEST SIDE OF PAVEMENT AT CORNER OF STONEHALL, NORTH OF MISSION, & EAST OF THOMAS MISSION.*  
NAD-1983-Coordinates (Arizona West Zone 2003)

Latitude 32°43'57.27078" North

Longitude 114°36'53.89381" West

Ellipsoid Height 65.143 US survey feet / 65.142 International feet / 19.86 meters.

North 631,343.239 US survey feet./ 631,341.9763 International feet.

East 434,011.107 US survey feet / 434,010.239 International feet.

NAVD-1988-Elevation

175.909 US survey feet. / 175.908 International feet. / 53.63 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

Latest Observation Date: March, 09, 2007 Greenwich Mean Time-03:47:58 PM.

Epoch Date-1173437278

Julian Date- 2454168.65831

Observer: Enrique S. Urbieta

NVGD-1929 Elevation

175.909' (1988)

-2.150' (YUMA AREA CONSTANT)

-----  
173.759 US survey feet.

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2357

Found a 5/8 inch diameter rebar, 8 inches below asphalt. Set a frame and cover on it. This is the Common Quarter Corner of Sections 3 and 10, T10S, R23W, of the Gila And Salt River Base And Meridian.

Located at Ave. 1 1/2E and 80<sup>th</sup>. St. (Co. 17<sup>th</sup>. Street)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°34'56.17527" North

Longitude 114°36'22.64639" West

Ellipsoid Height 92.657 US Survey Feet / 92.657 International Feet / 28.2420 Meters.

North 576,636.6020 US Survey Feet. / 576,637.7553 International Feet.

East 436,239.0070 US Survey Feet. / 436,239.8795 International Feet.

NAVD-1988-Elevation

204.42 US Survey Feet. / 204.42 International Feet. / 62.30734 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:                      Previous Observer:

NGVD-1929-Elevation

204.42 NAVD-1988

-2.15 Area Constant

202.27 US Survey Feet. / 202.27 International Feet. / 61.65202 Meters.

Latest Observation Date: January 04, 2013 Greenwich Mean Time 05:38:49 PM.

Epoch Date - 1357230661

Julian Date - 2456297.23529

Observer: Enrique S. Urbietta and Jesus Gonzalez.

DISCLAIMER STATEMENT

Since this point is outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying from the Trimble GPS Radio Base Station at COYA, the integrity of the point's coordinates and elevations have been compromised and should be re-evaluated prior to usage by comparison to at least 2 other known points on the City of Yuma Datum within the 10 Kilometers, (6.21 miles), range of the Trimble GPS Radio Base Station at COYA, in order to verify the correct coordinates and elevations of the point in

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2358

Found a 3in. dia. BLM-2006, brass cap properly stamped, 1ft. below ground. This is the East Quarter Corner of Section 12, T10S, R23W, of the Gila And Salt River Base And Meridian.

Located at Ave. 4E and 84<sup>th</sup>. St. ( Co. 17 ½ St. ) -West-

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°34'29.72085" North

Longitude 114°33'47.45707" West

Ellipsoid Height 86.256 US Survey Feet / 86.256 International Feet / 26.290882 Meters.

North 573,858.4980 US Survey Feet. / 573,859.6457 International Feet.

East 449,497.6910 US Survey Feet. / 449,498.5900 International Feet.

NAVD-1988-Elevation

198.07 US Survey Feet. / 198.07 International Feet. / 60.37186 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

198.07 NAVD-1988

-2.15 Area Constant

195.92 US Survey Feet. / 195.92 International Feet. / 59.71654 Meters.

Latest Observation Date: January 11, 2013 Greenwich Mean Time 04:47:55 PM.

Epoch Date - 1357922875

Julian Date - 2456304.19994

Observer: Enrique S. Urbieto, Louis Romero and Jesus Gonzalez.

DISCLAIMER STATEMENT

Since this point is outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying from the Trimble GPS Radio Base Station at COYA, the integrity of the point's coordinates and elevations have been compromised and should be re-evaluated prior to usage by comparison to at least 2 other known points on the City of Yuma Datum within the 10 Kilometers, (6.21 miles), range of the Trimble GPS Radio Base Station at COYA, in order to verify the correct coordinates and elevations of the point in

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2359

Found a 1/2in. diameter rebar, 1ft. below ground. This is the West Quarter Corner of Section 7, T10S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 4E and 84<sup>th</sup>. St. ( Co. 17 ½ St. ) -East-

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°34'28.42355" North

Longitude 114°33'47.44828" West

Ellipsoid Height 85.527 US Survey Feet / 85.527 International Feet / 26.0687 Meters.

North 573,737.3840 US Survey Feet. / 573,738.5315 International Feet.

East 449,497.4410 US Survey Feet. / 449,498.3400 International Feet.

NAVD-1988-Elevation

197.34 US Survey Feet. / 197.34 International Feet. / 60.1494 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:                      Previous Observer:

NGVD-1929-Elevation

197.34 NAVD-1988

- 2.15 Area Constant

195.19 US Survey Feet. / 195.19 International Feet. / 59.49404 Meters.

Latest Observation Date: January 11, 2013 Greenwich Mean Time 05:21:27 PM.

Epoch Date - 1357924887                      Julian Date - 2456309.22323

Observer: Enrique S. Urbieta, Louis Romero and Jesus Gonzalez.

DISCLAIMER STATEMENT

Since this point is outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying from the Trimble GPS Radio Base Station at COYA, the integrity of the point's coordinates and elevations have been compromised and should be re-evaluated prior to usage by comparison to at least 2 other known points on the City of Yuma Datum within the 10 Kilometers, (6.21 miles), range of the Trimble GPS Radio Base Station at COYA, in order to verify the correct coordinates and elevations of the point in

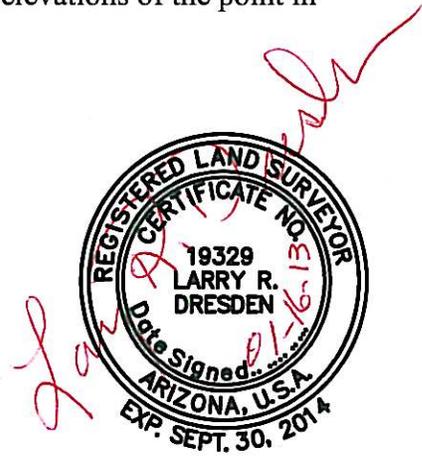
Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2360

Found a 3in. diameter BLM-2006, brass cap properly stamped, 1ft. below ground. This is the Southeast Corner of Section 12, T10S, R23W, of the Gila And Salt River Base And Meridian.

Located at Ave. 4E and 88<sup>th</sup>. St. ( Co. 18<sup>th</sup>. St. ) -West-

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°34'03.35681" North

Longitude 114°33'47.27388" West

Ellipsoid Height 98.231 US Survey Feet / 98.231 International Feet / 29.9409 Meters.

North 571,193.9600 US Survey Feet. / 571,195.1024 International Feet.

East 449,493.0090 US Survey Feet. / 449,493.9080 International Feet.

NAVD-1988-Elevation

210.10 US Survey Feet. / 210.10 International Feet. / 64.03861 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

210.10 NAVD-1988

- 2.15 Area Constant

207.95 US Survey Feet. / 207.95 International Feet. / 63.3833 Meters.

Latest Observation Date: January 11, 2013 Greenwich Mean Time 07:55:14 PM.

Epoch Date - 1357934114 Julian Date - 2456304.33002

Observer: Enrique S. Urbieta, Louis Romero and Jesus Gonzalez.

DISCLAIMER STATEMENT

Since this point is outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying from the Trimble GPS Radio Base Station at COYA, the integrity of the point's coordinates and elevations have been compromised and should be re-evaluated prior to usage by comparison to at least 2 other known points on the City of Yuma Datum within the 10 Kilometers, (6.21 miles), range of the Trimble GPS Radio Base Station at COYA, in order to verify the correct coordinates and elevations of the point in

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2361

Found a 2 1/2 in. diameter BLM-1920-2006, brass cap properly stamped, 1 ft. below ground. This is the Southwest Corner of Section 7, T10S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 4E and 88<sup>th</sup>. St. ( Co. 18<sup>th</sup>. St. ) -East-

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°34'02.29211" North

Longitude 114°33'47.26554" West

Ellipsoid Height 96.569 US Survey Feet / 96.569 International Feet / 29.4343 Meters.

North 571,086.3530 US Survey Feet. / 571,087.4952 International Feet.

East 449,492.9010 US Survey Feet. / 449,493.8000 International Feet.

NAVD-1988-Elevation

208.44 US Survey Feet. / 208.44 International Feet. / 63.53264 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:                      Previous Observer:

NGVD-1929-Elevation

208.44 NAVD-1988

- 2.15 Area Constant

206.29 US Survey Feet. / 206.29 International Feet. / 62.87732 Meters.

Latest Observation Date: January 11, 2013 Greenwich Mean Time 08:29:40 PM.

Epoch Date - 1357936180

Julian Date - 2456304.3956

Observer: Enrique S. Urbieta, Louis Romero and Jesus Gonzalez.

DISCLAIMER STATEMENT

Since this point is outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying from the Trimble GPS Radio Base Station at COYA, the integrity of the point's coordinates and elevations have been compromised and should be re-evaluated prior to usage by comparison to at least 2 other known points on the City of Yuma Datum within the 10 Kilometers, (6.21 miles), range of the Trimble GPS Radio Base Station at COYA, in order to verify the correct coordinates and elevations of the point in

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2362  
WINTER  
DB 1369

Found a 3" diameter brass cap, NGS stamped. 1' below ground.

Located on 1<sup>st</sup>. St. 10' E. of edge of pavement, in front of house # 566 in Winterhaven, CA.  
Directly under power line, *and 3' South of paved driveway,*

NAD-1983-Coordinates (Arizona West Zone 2003)

Latitude 32°44'32.84323" North

Longitude 114°37'59.51538" West

Ellipsoid Height 22.001 US survey feet / 22.00 International feet / 6.707 meters.

North 634,984.529 US survey feet. / 634,983.259 International feet.

East 428,435.552 US survey feet / 428,434.6951 International feet.

NAVD-1988-Elevation

132.776 US survey feet. / 132.7757 International feet. / 40.48 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

Latest Observation Date: January 05, 2007 Greenwich Mean Time-02:45:25 PM.

Epoch Date-1173347125

Julian Date- 2454167.61487

Observer: Enrique S. Urbieta

NGVD-1929-Elevation

132.776' (1988)

- 2.150' (YUMA AREA CONSTANT)

-----  
130.626 US survey feet.

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2363

Found previously a 3" diameter Brass cap with punch mark in frame and cover, this Brass Cap was disturbed with the construction of the new water line replacement. Set a 3in. diameter Brass Cap LS 19329-COY-2010, properly stamped in frame and cover This is the Common Quarter Corner, of Section 7, T9S, R22W, and Section 12, T9S, R33W, of the Gila And Salt River Base And Meridian.

R23W E24.

Located in the intersection of Ave 4E and 36<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'45.10995" North

Longitude 114°33'50.65865" West

Ellipsoid Height 99.467 US survey feet / 99.467 International feet / 30.31761 meters.

North 605,734.875 US survey feet / 605,736.0865 International feet.

East 449,467.864 US survey feet / 449,468.7629 International feet.

NAVD-1988-Elevation

210.61 US survey feet. / 210.61 International feet. / 64.1941 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.  
Previous Observation Date: March 05, 2007. Previous Observer: Enrique S. Urbietta

NGVD-1929-Elevation

210.61 NAVD-1988

- 2.15 Area Constant

208.46 US survey feet. / 63.5388 meters.

Latest Observation Date: December 09, 2010 Greenwich Mean Time-05:34:37 PM.

Epoch Date-1291916077

Julian Date- 2455540.23237

Observer: Enrique S. Urbietta

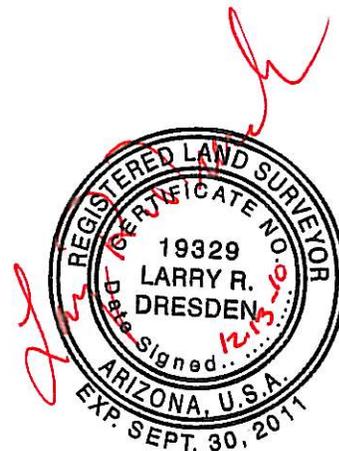
Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2364

Set a 3" diameter brass cap with punchmark. Stamped COY LS 19329 in hand hole with cover. This being the Center 1/4 of Section 7, T9S, R22W of the Gila And Salt River Base And Meridian.

Located in the intersection of Ave 4 1/2E and 36<sup>th</sup>. St. ( County 11 1/2E )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'39"45.40925" North

Longitude 114°33'19.76996" West

Ellipsoid Height 101.946 US survey feet / 101.9462 International feet / 31.07326 meters.

North 605745.008 US survey feet. / 605746.2195 International feet.

East 452108.683 US survey feet / 452109.5872 International feet.

NAVD-1988-Elevation

213.098 US survey feet. / 213.0984 International feet. / 64.95 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

213.098 NAVD 1988

- 2.150 Area Constant

-----

210.948 US survey feet. / 210.9484 International Feet. / 64.2972 meters.

Latest Observation Date: March, 05, 2007 Greenwich Mean Time-03:22:15 PM.

Epoch Date-1176200535

Julian Date- 2454200.64045

Observer: Enrique S. Urbieta

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2365

Found a 3in. diameter brass cap, LS 31018-2010-DRA, properly stamped, encased in concrete 7in. below asphalt in frame and cover. A 3in. diameter brass cap with punch mark in frame and cover, found prior. This is the common  $\frac{1}{4}$  corner of Sections 7 and 18, T9S, R22W of the Gila And Salt River Base And Meridian.

Located in the intersection of Ave. 41/2E and 40<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'19.20691" North

Longitude 114°33'19.47828" West

Ellipsoid Height 100.523 US survey feet / 100.523 International feet / 30.63947 Meters.

North 603,096.707 US survey feet / 603,097.9132 International feet.

East 452,113.518 US survey feet / 452,114.4222 International feet.

NAVD-1988-Elevation

211.73 US survey feet / 211.73 International feet / 64.53544 Meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: March 05, 2007 Previous Observer: Enrique S. Urbietta

NGVD-1929-Elevation

211.73 NAVD-1988

- 2.15 Area Constant

209.58 US survey feet. / 209.58 International Feet / 63.88011 Meters.

Latest Observation Date: June, 22, 2010 Greenwich Mean Time-02:10:22 PM.

Epoch Date-1277215822

Julian Date- 2455370.09053

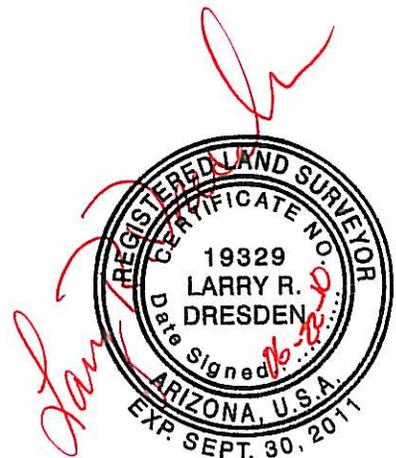
Observer: Enrique S. Urbietta

Under the Direct Supervision of : Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2366

Found a 3" diameter. Brass cap with punchmark conc. encased on surface of asphalt road. LS # 22767. This being the 1/4 Corner common to Sections 16 and 17, Township 9 South, Range 22 West, of the Gila And Salt River Base And Meridian.  
Located at the intersection of Ave 6E and 44<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'53.72159" North

Longitude 114°31'47.17094" West

Ellipsoid Height 98.197 US survey feet / 98.1972 International feet / 29.9305 meters.

North 600,462.107 US survey feet. / 600,463.3079 International feet.

East 459,986.446 US survey feet / 459,987.366 International feet.

NAVD-1988-Elevation

209.473 US survey feet. / 209.4734 International feet. / 63.8478 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

209.473 - 2.15 = 207.323 US survey feet. / 207.3234 International feet / 63.1923 meters.

Latest Observation Date: May, 31, 2007 Greenwich Mean Time 03:25:24 PM.

Epoch Date-1180625124

Julian Date- 2454251.64264

Observer: Enrique S. Urbieto

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2367

Found a 3" diameter. Brass cap with punchmark conc. encased on surface of asphalt road. LS # 22767. This being the Section Corner common to Sections 16,17,20 and 21. Township 9 South, Range 22 West, of the Gila And Salt River Base And Meridian.  
Located at the intersection of Ave 6E and 48<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'27.40451" North

Longitude 114°31'46.77169" West

Ellipsoid Height 97.68 US survey feet / 97.6802 International feet / 29.773 meters.

North 597,802.149 US survey feet. / 597,803.3446 International feet.

East 460,001.039 US survey feet / 460,001.959 International feet.

NAVD-1988-Elevation

209.011 US survey feet. / 209.0114 International feet. / 63.707 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

209.011 - 2.15 = 206.861 US survey feet. / 206.8614 International feet / 63.0513 meters.

Latest Observation Date: May, 31, 2007 Greenwich Mean Time 04:05:23 PM.

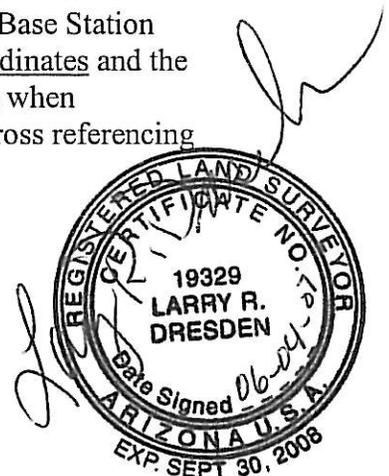
Epoch Date-1180627523

Julian Date- 2454251.67041

Observer: Enrique S. Urbieta

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2368

Found a 4x4 redwood post, leaning to the north, with 2 -1/2 rebars. One leaning north. The other one straight down, with flagging. In covered hand hole, 6" below ABC. This being the 1/4 Corner common to Sections 20 and 21, T.9S, R 22W, G. S. R. B. M.  
Located at the intersection of Ave 6E and County 13 1/2 E Street.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'01.34898" North

Longitude 114°31'46.15949" West

Ellipsoid Height 95.621 US survey feet / 95.6212 International feet / 29.1454 meters.

North 595,168.493 US survey feet. / ~~59,169.6833~~ International feet. 595,169.6833

East 460,034.041 US survey feet / 460,034.9611 International feet.

NAVD-1988-Elevation

207.005 US survey feet. / 207.0054 International feet. / 63.05938 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

207.005 - 2.15 = 204.855 US survey feet. / 204.8554 International feet / 62.44006 meters.

Latest Observation Date: June, 06, 2007 Greenwich Mean Time 05:25:32 PM.

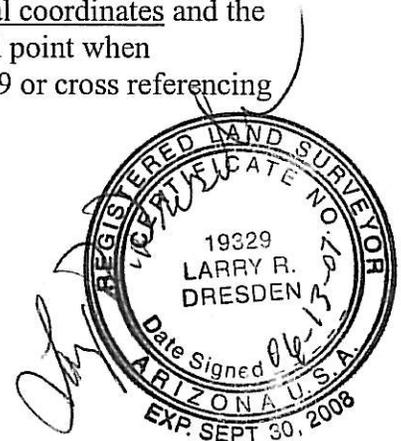
Epoch Date-1181150732

Julian Date- 2454257.72606

Observer: Enrique S. Urbietta

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2371

*YARD*

Set a 3" diameter brass cap with punch mark, stamped COY 2007 LS 19329. Point being in the West Half of the South East quarter of Section 28, Township 8 South, Range 23

West of the Gila and Salt River Base & Meridian. *Set to check GPS Calibration,*

Located in the survey storage yard west of 1<sup>st</sup> Ave. between 13<sup>th</sup> & 14<sup>th</sup> St.

*NORTH OF APS SUBSTATION.*

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'10.85932" North

Longitude 114°37'14.13810" West

Ellipsoid Height 86.875 US survey feet/ 86.8752 International feet/ 26.47955 meters

North 620602.979 survey feet/ 620604.2202 International feet

East 432193.578 survey feet/ 432194.4424 International feet

NAVD-1988-Elevation

197.802 US survey feet/ 197.8023 International feet/ 60.2902 meters

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

197.802 NAVD 1988

-2.150 Area Constant

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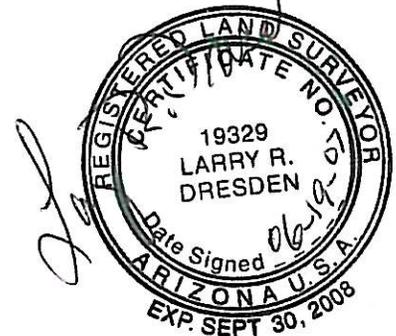
195.652 US survey feet/ 195.6523 International feet/ 59.6348 meters

Latest Observation Dated June 15<sup>th</sup>, 2007 Greenwich Mean Time-04:47:59 PM.

Epoch Date 1881926079

Julian Date 2454266.69999

Observer: Jesus Gonzalez



BENCHMARK # 2372

*used*

Found a 1/2" rebar in <sup>bottom of</sup> concrete Irrigation canal, in the "Y" section of the canal. This being the <sup>between 3 gate structures</sup> locally Center 1/4 Corner of Section 1, T9S, R23W of the Gila And Salt River Base And Meridian.

Located in the intersection of Ave 3 1/2 E and 28<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'37.18411" North

Longitude 114°34'22.27118" West

Ellipsoid Height 105.569 US survey feet / 105.5692 International feet / 32.17756 Meters.

North 611,018.577 US survey feet. / 611,019.799 International feet.

East 446,806.134 US survey feet. / 446,807.0276 International feet.

NAVD-1988-Elevation

216.592 US survey feet. / 216.5924 International feet. / 66.0175 Meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

216.592 ~~NAVD-1988~~

- 2.15 Area Constant

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214.442 US survey feet. / 214.44243 International Feet. / 65.36219 Meters.

Latest Observation Date: June, 20, 2007 Greenwich Mean Time-08:58:39 PM.

Epoch Date-1182329919

Julian Date- 2454272.37406

Observer: Enrique S. Urbieto

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2373

Found a 3" Brass Cap with punch mark LS 16587, in covered hand hole. This being the Center ¼ Corner of Section 24, T9S, R23W of the Gila And Salt River Base And Meridian.

Located in the intersection of Ave 3 ½ E (Tierra Mesa Ave) and Co. 13 ½ St. (Dessert Star St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Lattitude 32°38'00.04968" North

Longitude 114°34'20.48543" West

Ellipsoid Height 95.934 US survey feet / 95.9342 International feet / 29.2408 Meters.

North 595,136.882 US survey feet. / 595,138.0723 International feet.

East 446,835.600 US survey feet. / 446,836.4937 International feet.

NAVD-1988-Elevation

207.227 US survey feet. / 207.2274 International feet. / 63.1630 Meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

207.227 NAVD-1988

- 2.15 Area Constant

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205.077 US survey feet. / 205.0774 International Feet. / 62.507726 Meters.

Latest Observation Date: June, 20, 2007 Greenwich Mean Time-05:17:09 PM.

Epoch Date-1182964629

Julian Date- 2454278.72024

Observer: Enrique S. Urbieto

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2374

Found a 1 in. diameter pipe 8 in. below asphalt prior. Found a 3" diameter Brass cap with punch mark, Township and Range missing otherwise properly stamped. LS 31018-2008, encased in concrete, flush with asphalt. This is the Common Section Corner for Sections 14, 15, 22 and 23, T9S, R23W, of the Gila And Salt River Base And Meridian.  
Permission needs to be acquired from MCAS surveyor prior to occupation of this survey point. Contact Jose Rodriguez (MCAS surveyor) at (928) 269-6368 in Building # 888 to make escort arrangements onto Military Base.

Located at: Pacific Ave. ( Ave. 2E ) And 48<sup>th</sup> St. ( MCAS )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'25.38825" North  
Longitude 114°35'54.69881" West

Ellipsoid Height 94.841 US Survey Feet / 94.841 International Feet / 28.9076 Meters.  
North 597,760.9010 US Survey Feet / 597,762.0965 International Feet.  
East 438,799.4460 US Survey Feet / 438,800.3236 International Feet.

NAVD-1988-Elevation

206.17 US Survey Feet. / 206.17 International Feet. / 62.84075 Meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.  
Previous Observation Date: June 29, 2007  
Previous Observer: Enrique S. Urbieto

NGVD-1929-Elevation

206.17 NAVD-1988

-2.15 Area Constant.

204.02 US Survey Feet.

Latest Observation Date: August 11, 2011. Greenwich Mean Time-04:42:37 PM.

Epoch Date-1313080957

Julian Date- 2455785.19626

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2375

Found a 1/2 inch rebar, incased in a 4x4inch concrete pilar, 10 inches below ground. This being the Center 1/4 Corner of Section 23. T9S, R23W of the Gila And Salt River Base And Meridian.

Located in the intersection of Ave 2 1/2 E and Co. 13 1/2 St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'59.51915" North

Longitude 114°35'22.73265" West

Ellipsoid Height 89.950 US survey feet /89.950 International feet / 27.41687 Meters.

North 595,124.879 US survey feet. / 595,126.0693 International feet.

East 441,512.128 US survey feet. / 441,800513.011 International feet.

NAVD-1988-Elevation

201.30 US survey feet. / 201.30 International feet. / 61.35649 Meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

201.30 NAVD-1988

- 2.15 Area Constant

199.15 US survey feet. / 199.15 International Feet. / 60.7010476 Meters.

Latest Observation Date: August, 28, 2007 Greenwich Mean Time-07:33:44 PM.

Epoch Date-1188338487

Julian Date- 2454341.23176

Observer: Enrique S. Urbieto

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2376

Found a 1 ¼ inch diameter. Aluminum cap Y C H D stamped, with punchmark. Concrete encased 4 inches below asphalt road, in hand hole. This being the 1/4 Corner common to Sections 23 and 24, Township 9 South, Range 22 West, of the Gila And Salt River Base And Meridian.

Located at the intersection of Ave. 3E and CO. 13 ½ St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'59.73633" North

Longitude 114°34'51.60807" West

Ellipsoid Height 94.225 US survey feet /94.2251884 International feet / 28.71984 meters.

North 595,125.873 US survey feet. / 595,127.0633 International feet.

East 444,173.956 US survey feet / 444,174.8443 International feet.

NAVD-1988-Elevation

205.57 US survey feet. / 205.57 International feet. / 62.657867 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

205.57 NAVD-1988

- 2.15 Area Constant

203.42 US survey feet. / 203.42 International feet / 62.0025 meters.

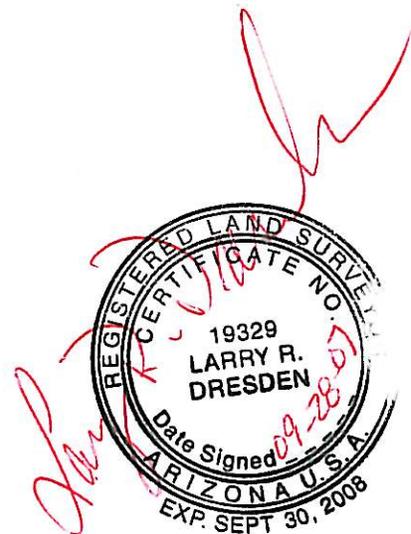
Latest Observation Date: September, 13, 2007 Greenwich Mean Time 06:27:52 PM.

Epoch Date-1180625124

Julian Date- 2454251.64264

Observer: Enrique S. Urbieto / Jesus Gonzalez

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Arizona License #19329  
California License # 5643



BENCHMARK # 2377

Found prior a 1in. dia. iron pipe 8 inches below ground. Found a 3in. dia. aluminum cap ADOT-LS 28743-2009 properly stamped, encased in concrete, on ground level. This is the Center Quarter Corner of Sections 21, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 6 1/2E. ( US 195 ) and 52<sup>nd</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'01.53887" North

Longitude 114°31'15.19374" West

Ellipsoid Height 99.186 US Survey Feet / 99.186 International Feet / 30.2320 Meters.

North 595,168.4170 US Survey Feet. / 595,169.6073 International Feet.

East 462,682.3280 US Survey Feet. / 462,683.2534 International Feet.

NAVD-1988-Elevation

210.56 US Survey Feet. / 210.56 International Feet. / 64.17882 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: September 25, 2007 Previous Observer: Jesus Gonzalez

NGVD-1929-Elevation

210.56 NAVD-1988

-2.15 Area Constant

208.41 US Survey Feet. / 208.41 International Feet. / 63.5235 Meters.

Latest Observation Date: May 23, 2013 Greenwich Mean Time 06:17:33 PM.

Epoch Date - 1369333053

Julian Date - 2456436.26219

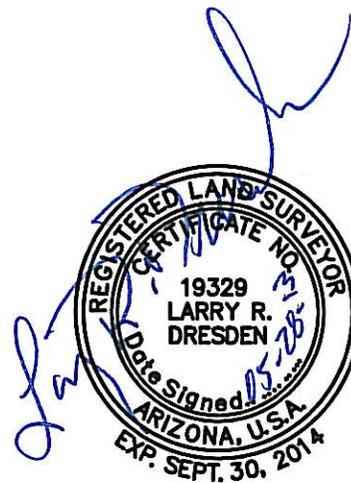
Observer: Enrique S. Urbieto

Under the Direct Supervision of : Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2378

Found a 3" diameter (BLM 1960) Brass cap with punch mark. About 6 inches above ground. This being the E ¼ Corner of Section 5, and, the W ¼ Corner of Section 4, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at: Ave. 6E and About 400 feet south of Sunset Terrace Boulevard. ( About 60 feet North of I-8, North R/W chain link fence.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'38.17747" North

Longitude 114°31'48.16467" West

Ellipsoid Height 103.473 US survey feet / 103.473 International feet / 31.53869 meters.

North 611,019.482 US survey feet. / 611,020.704 International feet.

East 459,979.089 US survey feet. / 459,980.009 International feet.

NAVD-1988-Elevation

214.51 US survey feet. / 214.51 International feet. / 65.382785 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

214.51 NAVD 1988

-2.15 Area Constant

212.36 U.S. Survey Feet / 214.36 International Feet.

Latest Observation Date: October, 29, 2007 Greenwich Mean Time-05:28:50 PM.

Epoch Date-1193678930

Julian Date- 2454403.22845

Observer: Enrique S. Urbieto

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2379

Found a 3" diameter Brass cap with punchmark, encased in concrete on ground level. LS # 19329. Set over a previously found 1960 BLM brass cap, 18" below ground. This being the E ¼ Corner of Section, 4, T9S,R22W , of the G. & S. R. B. & M.

Located in the intersection of Ave 7E and 28<sup>th</sup>. St.(About 120 feet, south of Gila Ridge Rd.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'38.71704" North

Longitude 114°30'46.14949" West

Ellipsoid Height 104.592 US survey feet / 104.592 International feet / 31.8797 meters.

North 611,035.477 US survey feet. / 611,036.6991 International feet.

East 465,280.212 US survey feet. / 465,281.1426 International feet.

NAVD-1988-Elevation

215.60 US survey feet. / 215.60 International feet. / 65.71501 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

215.60 NAVD-1988

-2.15 Area Constant

213.45 US survey feet. / 213.45 International feet. / 65.05969 meters.

Latest Observation Date: November, 07, 2007 Greenwich Mean Time-08:15:42 PM.

Epoch Date-1194466542

Julian Date- 2454412.34424

Observer: Enrique S. Urbietta

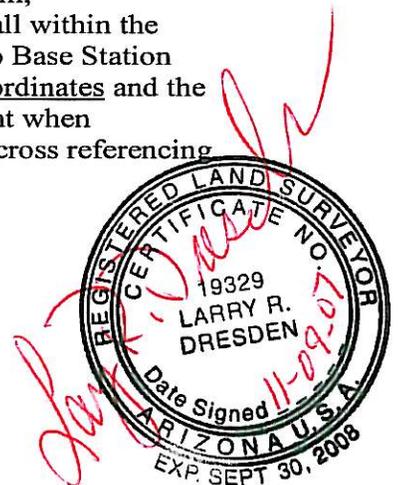
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of : Larry R. Dresden

Registered Land Surveyor,

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BENCHMARK # 2380

Set a 3" diameter Brass cap with punch mark, encased in concrete on ground level. LS# 19329.  
Set over a U.S.B.R. Brass cap. (~~Need to reference Terrace At The View Subdivision Plat, Book 20, Page 86 & 87. 11/18/04. A proportional distance of 2638.35 feet, S 89°47'40" E from the W ¼ Corner of Section 5.~~) This being the Center ¼ Corner of Section 5, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at: Ave. 5 ½ E and About 290 feet south of View Parkway. ( About 210 feet North of I-8, North R/W Barb wire fence.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'38.07876" North

Longitude 114°32'18.80037" West

Ellipsoid Height 89.172 US survey feet / 89.172 International feet / 27.17968 meters.

North 611,028.860 US survey feet. / 611,030.0821 International feet.

East 457,360.440 US survey feet. / 457,361.3547 International feet.

NAVD-1988-Elevation

200.22 US survey feet. / 200.22 International feet. / 61.02718 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

200.22 NAVD 1988

-2.15 Area Constant

198.07 U.S. Survey Feet / 198.07 International Feet.

Latest Observation Date: November, 15, 2007 Greenwich Mean Time-06:11:48 PM.

Epoch Date-1195150308

Julian Date- 2454420.25819

Observer: Enrique S. Urbieta

Under the Direct Supervision of : Larry R. Dresden  
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Arizona License #19329  
California License # 5643



BENCHMARK # 2381

Found a 3in. dia. BLM-2006, brass cap properly stamped, 8 inches below ground. Set a 6in. dia. PVC pipe with a survey lid on it. This is the East Quarter Corner of Section 13, T10S, R23W, of the Gila And Salt River Base And Meridian.

Located at Ave. 4E and 92<sup>nd</sup>. St. ( Co. 18<sup>1/2</sup>. St. ) -West-

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°33'37.08432" North

Longitude 114°33'46.96839" West

Ellipsoid Height 117.444 US Survey Feet / 117.444 International Feet / 35.7971 Meters.

North 568,538.5970 US Survey Feet. / 568,539.7341 International Feet.

East 449,498.8720 US Survey Feet. / 449,499.7710 International Feet.

NAVD-1988-Elevation

229.37 US Survey Feet. / 229.37 International Feet. / 69.91212 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:                      Previous Observer:

NGVD-1929-Elevation

229.37 NAVD-1988

- 2.15 Area Constant

227.22 US Survey Feet. / 227.22 International Feet. / 69.2568 Meters.

Latest Observation Date: January 24, 2013 Greenwich Mean Time 04:06:27 PM.

Epoch Date - 1359043587

Julian Date - 2456317.17115

Observer: Enrique S. Urbietta, and Jesus Gonzalez.

DISCLAIMER STATEMENT

Since this point is outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying from the Trimble GPS Radio Base Station at COYA, the integrity of the point's coordinates and elevations have been compromised and should be re-evaluated prior to usage by comparison to at least 2 other known points on the City of Yuma Datum within the 10 Kilometers, (6.21 miles), range of the Trimble GPS Radio Base Station at COYA, in order to verify the correct coordinates and elevations of the point in

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

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BENCHMARK # 2382

Found a 3" Dia. Brass cap (BLM-1973) with punch mark about 8 inches below ground, in 8" plastic pipe with cover. This being the common ¼ Corner of Sections 2 and 3, T9S,R22W of the Gila And Salt River Base And Meridian.

Located in the intersection of Ave 8E and 28<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'39.30313" North

Longitude 114°29'44.19924" West

Ellipsoid Height 105.807 US survey feet / 105.807 International feet / 32.2501 meters.

North 611,057.073 US survey feet. / 611,058.2951 International feet.

East 470,575.808 US survey feet. / 470,576.7492 International feet.

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NAVD-1988-Elevation

216.75 US survey feet. / 216.75 International feet. / 66.065538 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

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NGVD-1929-Elevation

216.75 NAVD-1988

- 2.15 Area Constant

214.60 US survey feet. / 65.410217 meters.

Latest Observation Date: January, 03, 2007<sup>3</sup> Greenwich Mean Time-05:05:07 PM.

Epoch Date-1199379907

Julian Date- 2454469.21189

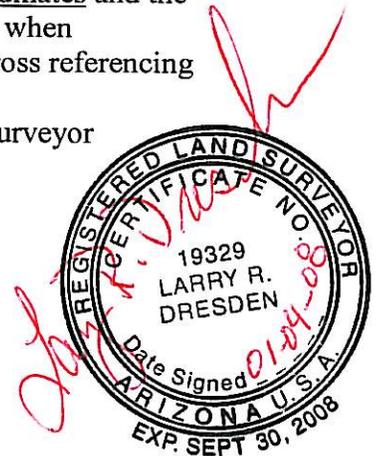
Observer: Enrique S. Urbietta, Jessy Gonzalez.

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

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BENCHMARK # 2383

Found a 3" Dia. Brass cap (BLM-1973) with punch mark, on ground level. This being the Center ¼ Corner of Section 2, T9S, R22W of the Gila And Salt River Base And Meridian. Located in the intersection of Ave 8 ½ E and 28<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'39.33792" North

Longitude 114°29'13.05103" West

Ellipsoid Height 103.623 US survey feet / 103.623 International feet / 31.584356 meters.

North 611,041.990 US survey feet. / 611,043.2121 International feet.

East 473,238.215 US survey feet. / 473,239.1615 International feet.

---

NAVD-1988-Elevation

214.53 US survey feet. / 214.53 International feet. / 65.388881 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

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NGVD-1929-Elevation

214.53 NAVD-1988

- 2.15 Area Constant

212.38 US survey feet. / 64.73356 meters.

Latest Observation Date: January, 03, 2007<sup>3</sup> Greenwich Mean Time-05:51:00 PM.

Epoch Date-1199382660

Julian Date- 2454469.24375

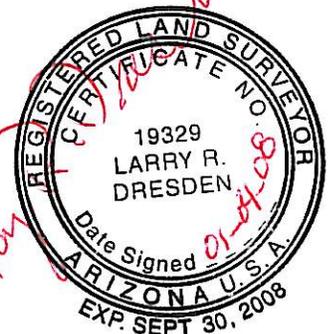
Observer: Enrique S. Urbietta, Jessy Gonzalez.

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

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BENCHMARK # 2384

Found a ½ " Dia. Rebar with cap LS # 22767, on ground level. This being the Center ¼ Corner of Sections 3, T9S, R22W of the Gila And Salt River Base And Meridian.  
Located in the intersection of Ave 7 ½ E and 28<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'39.01015" North

Longitude 114°30'15.18706" West

Ellipsoid Height 99.979 US survey feet /99.979 International feet. / 30.473663 meters.

North 611,046.182 US survey feet. / 611,047.4041 International feet.

East 467,926.926 US survey feet. / 467,927.8619 International feet.

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NAVD-1988-Elevation

210.96 US survey feet. / 210.96 International feet. / 64.30074 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

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NGVD-1929-Elevation

210.96 NAVD-1988

- 2.15 Area Constant

208.81 US survey feet. / 63.645421 meters.

Latest Observation Date: January, 03, 2007<sup>3</sup> Greenwich Mean Time-06:47:19 PM.

Epoch Date-1199386039

Julian Date- 2454469.28286

Observer: Enrique S. Urbietta, Jessy Gonzalez.

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

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BENCHMARK # 2385

Found a 3" diameter. (BLM) Brass cap . Broken-off 14" below ground. Replaced it with a 3" dia. C.O.Y. Brass Cap LS 19329. In Center of existing 2" pipe. This being the Center Quarter Corner of Section 35, T8S, R22W, of the Gila and Salt River Base Meridian. Located in the intersection of Ave. 8 ½ E And 20<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'31.61570" North

Longitude 114°29'13.46253" West

Ellipsoid Height : 41.907 US survey feet / 41.907 International feet / 12.77328 meters.

North 616,325.685 US survey feet / 616,326.9177 International feet.

East 473,239.741 US survey feet / 473,240.6875 International feet.

NAVD-1988-Elevation

152.68 US survey feet. / 152.68 International feet. / 46.53696 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

152.68

-2.15

150.53 US survey feet. / 45.88164 meters.

Latest Observation Date: January, 09, 2008 Greenwich Mean Time-06:38:19 PM.

Epoch Date- 1199903899

Julian Date- 2454475.27661

Observer: Enrique S. Urbietta, Jessy Gonzalez.

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

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California License # 5643



BENCHMARK # 2386

Found a 3" Dia. Brass cap (BLM-1960) with punch mark about 4 inches below grass, by AWC Amphitheater's S. E. corner approximately 17 feet. This being the common ¼ Corner of Sections 34 and 35, T8S,R22W of the Gila And Salt River Base And Meridian. Located in the intersection of Ave 8E and 20<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'31.39631" North

Longitude 114°29'44.54228" West

Ellipsoid Height 90.094 US survey feet /90.094 International feet / 27.4607 meters.

North 616,322.069 US survey feet / 616,323.3016 International feet.

East 470,583.484 US survey feet / 470,584.4252 International feet.

NAVD-1988-Elevation

200.90 US survey feet. / 200.90 International feet. / 61.2344 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

200.90 NAVD-1988

- 2.15 Area Constant

198.75 US survey feet. / 60.5791 meters.

Latest Observation Date: January, 10, 2008 Greenwich Mean Time-09:03:29 PM.

Epoch Date-1199999009

Julian Date- 2454476.37742

Observer: Enrique S. Urbietta, Jessy Gonzalez.

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden,

Registered Land Surveyor.

Arizona License #19329

California License # 5643



BENCHMARK # 2387

Found: 3" brass cap in hand hole with center punch, 2007 LS 16810.

This is the southeast quarter corner of Section 11 ~~and 12~~ T9S, R22W, of the Gila and Salt River Base and Meridian, located at the intersection of County 12th St. and Avenue 9E.

NAD-1983-Coordinates (Arizona West Zone 02023)

Latitude 32°39'20.71637"N

Longitude 114°28'41.21416"W

Ellipsoid Ht 115.015 US survey feet / 115.0152 International feet / 35.056Meters

North 603077.336 US survey feet / 603078.542 International feet.

East 475904.936 US survey feet / 475905.887 International feet.

NAVD-1988-Elevation

226.057 US survey feet / 226.0574 International Feet / 68.90 Meters

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

226.057 NAVD-1988

- 2.15 Area Constant

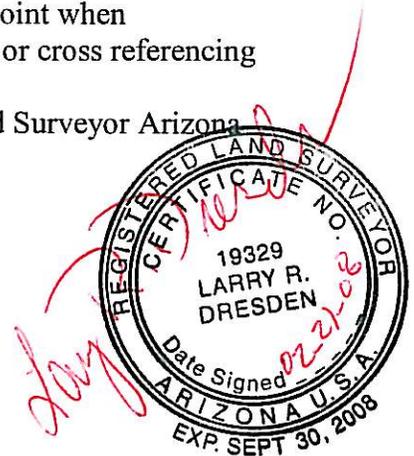
223.907 US survey feet / 223.907 International feet / 68.246 Meters

Latest Observation Date: February 19<sup>th</sup>, 2008 Greenwich Mean Time 15:55:36

Epoch Date-1203515754; Julian Date-2454515.87194; Observer: Jesus Gonzalez

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 Miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporation it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of: Larry R. Dresden Registered Land Surveyor Arizona License #19329, California License # 5643



BENCHMARK # 2388

Found: 3" brass cap with center punch, LS 16592.

This is the south quarter corner of Section 11 T9S, R22W, of the Gila and Salt River Base and Meridian, located at the intersection of County 12th St. and Avenue 8 1/2E.

NAD-1983-Coordinates (Arizona West Zone 02023)

Latitude 32°39'20.81318"N

Longitude 114°29'12.31395"W

Ellipsoid Ht 99.480 US survey feet / 99.4801 International feet / 30.321Meters

North 603105.476 US survey feet / 603106.682 International feet.

East 473246.111 US survey feet / 473247.057 International feet.

NAVD-1988-Elevation

210.569 US survey feet / 210.5694 International Feet / 64.181 Meters

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

210.569 NAVD-1988

- 2.15 Area Constant

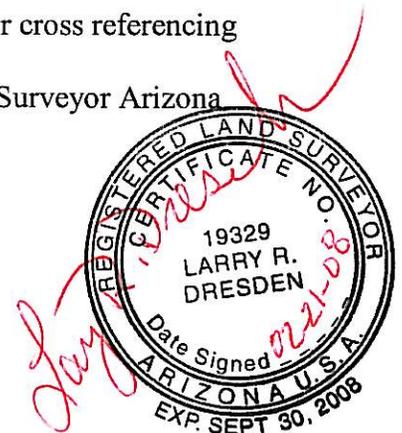
208.419 US survey feet / 208.4194 International feet / 63.526 Meters

Latest Observation Date: February 19<sup>th</sup>, 2008 Greenwich Mean Time 16:54:29

Epoch Date-1203525288; Julian Date-2454515.91284; Observer: Jesus Gonzalez

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 Miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporation it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of: Larry R. Dresden Registered Land Surveyor Arizona License #19329, California License # 5643



BENCHMARK # 2389

Found: 3" brass cap with center punch, LS 16552.

This is the center of Section 11 T9S, R22W, of the Gila and Salt River Base and Meridian, located at the intersection of 36<sup>th</sup> St. and Avenue 8 1/2E.

NAD-1983-Coordinates (Arizona West Zone 02023)

Latitude 32°39'47.00341"N

Longitude 114°29'12.55700"W

Ellipsoid Ht 104.802 US survey feet / 104.802 International feet / 31.934Meters

North 605752.523 US survey feet / 605753.734 International feet.

East 473243.713 US survey feet / 473244.659 International feet.

NAVD-1988-Elevation

215.831 US survey feet / 215.831 International Feet / 65.785 Meters

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

215.831 NAVD-1988

- 2.15 Area Constant

213.681 US survey feet / 213.6814 International feet / 65.130 Meters

Latest Observation Date: February 19<sup>th</sup>, 2008 Greenwich Mean Time 17:34:48

Epoch Date-1203526510; Julian Date-2454515.94083; Observer: Jesus Gonzalez

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 Miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporation it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of: Larry R. Dresden Registered Land Surveyor Arizona License #19329, California License # 5643



BENCHMARK # 2390

Found a 3 " diameter Brass cap LS 16810 (2007) with punch mark, encased in concrete. Being the common ¼ Corner of Sections, 11 and 12, R22W, T9S, of the G.& S.R.B.& M. Located on Ave. 9E.and 36<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'46.92363" North

Longitude 114°28'41.40519" West

Ellipsoid Height : 105.969 US survey feet / 105.969 International feet / 32.29942 meters.

North 605,726.076 US survey feet / 605,727.2875 International feet.

East 475,906.781 US survey feet / 475,907.7328 International feet.

NAVD-1988-Elevation

216.95 US survey feet. / 216.95 International feet. / 66.1265 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

216.95 NAVD-1988

-2.15 Area Constant

214.80 US survey feet. / 65.4712 meters.

Latest Observation Date: February ,20, 2008 Greenwich Mean Time 8:55:24 PM.

Epoch Date- 1203540924

Julian Date- 2454517.37181

Observer: Enrique S. Urbietta

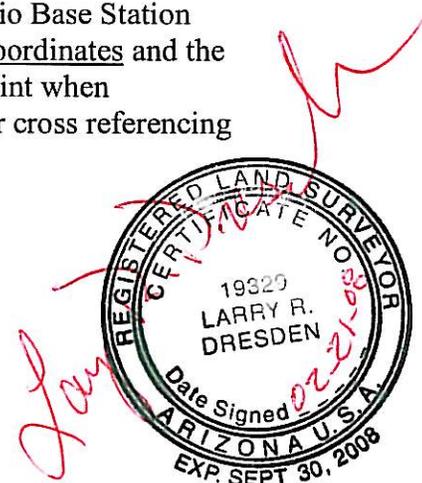
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2391

Found a 1" diameter, steel pipe filled with concrete, 3" below ground, inside a 8" PVC pipe. Being the common ¼ Corner of Sections, 12 and 13, R22W, T9S, of the G & S.R.B. & M. Located on Ave. 9 ½ E. and Co. 12<sup>th</sup> St. ( 40<sup>th</sup> St. City )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'21.00292" North

Longitude 114°28'10.10738" West

Ellipsoid Height : 126.559 US survey feet / 126.559 International feet / 38.57527 meters.

North 603,088.153 US survey feet / 603,089.3592 International feet.

East 478,564.626 US survey feet / 478,565.5831 International feet.

NAVD-1988-Elevation

237.55 US survey feet. / 237.55 International feet. / 72.4054meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

237.55 NAVD-1988

-2.15 Area Constant

235.40 US survey feet. / 71.7501 meters.

Latest Observation Date: February ,26, 2008 Greenwich Mean Time 4:21:34 PM.

Epoch Date- 1204042894

Julian Date- 2454523.18164

Observer: Enrique S. Urbieto and Louis Romero

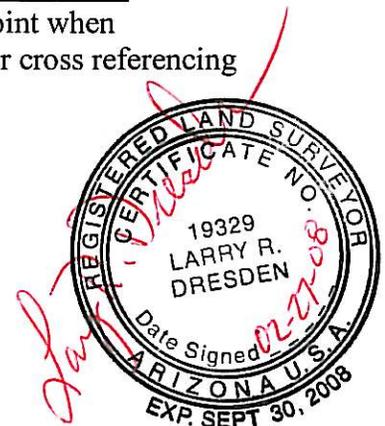
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2392

Found a 3 " diameter Brass cap LS 16552 with punch mark, encased in concrete. Being the Center ¼ Corner of Section, 12, R22W, T9S, of the G.& S.R.B.& M. Located on Mesa Ave. and 36<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'47.17954" North

Longitude 114°28'10.34365" West

Ellipsoid Height : 114.607 US survey feet / 114.607 International feet / 34.9323 meters.

North 605,733.823 US survey feet / 605,735.0345 International feet.

East 478,562.367 US survey feet / 478,563.3241 International feet.

NAVD-1988-Elevation

225.54 US survey feet. / 225.54 International feet. / 68.74474 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

225.54 NAVD-1988

-2.15 Area Constant

223.39 US survey feet. / 68.08942 meters.

Latest Observation Date: February ,26, 2008 Greenwich Mean Time 5:04:56 PM.

Epoch Date- 1204045496

Julian Date- 2454523.21245

Observer: Enrique S. Urbieta and Louis Romero

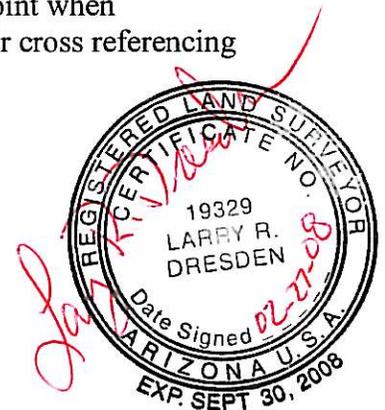
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2393

CONCRETE  
DECKING OF  
BRIDGE

Found a 2 ½ " diameter, Bureau of Reclamation, Brass cap (1944) with punch mark, in-headwall of "A" Canal, 14" below ground. Being the common Corner of Sections, 9, 10, 15, and 16, R22W, T9S, of the G. & S. R. B. & M.  
Located on Ave. 7E. and Co. 12<sup>th</sup> St. (40<sup>th</sup> St. City)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'20.23594" North

Longitude 114°30'45.40131" West

Ellipsoid Height : 105.075 US survey feet / 105.075 International feet / 32.02693 meters.

North 603,103.371 US survey feet / 603,104.5772 International feet.

East 465,287.155 US survey feet / 465,288.0856 International feet.

NAVD-1988-Elevation

216.27 US survey feet. / 216.27 International feet. / 65.91924 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

216.27 NAVD-1988

- 2.15 Area Constant

214.12 US survey feet. / 65.26392 meters.

Latest Observation Date: February ,26, 2008 Greenwich Mean Time 7:30:05 PM.

Epoch Date- 1204054205

Julian Date- 2454523.31256

Observer: Enrique S. Urbieto and Louis Romero.

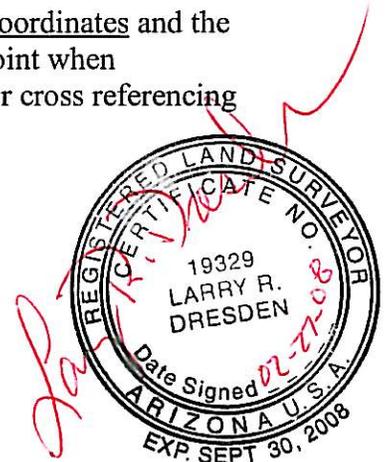
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2394

Found a 3" diameter, brass cap LS 16592, with punch mark encased in concrete, on ground level. Being the common  $\frac{1}{4}$  Corner of Sections, 10 and 15, R22W, T9S, of the G & S.R.B. & M. Located on Ave. 7  $\frac{1}{2}$  E. and Co. 12<sup>th</sup> St. ( 40<sup>th</sup> St. City )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'20.57356" North

Longitude 114°30'14.40750" West

Ellipsoid Height : 101.069 US survey feet / 101.069 International feet / 30.8059 meters.

North 603,118.553 US survey feet / 603,119.7592 International feet.

East 467,937.227 US survey feet / 467,938.1629 International feet.

NAVD-1988-Elevation

212.23 US survey feet. / 212.23 International feet. / 64.68784meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

212.23 NAVD-1988

-2.15 Area Constant

210.08 US survey feet. / 64.03252 meters.

Latest Observation Date: February ,26, 2008 Greenwich Mean Time 8:09:17 PM.

Epoch Date- 1204056557

Julian Date- 2454523.33978

Observer: Enrique S. Urbieto and Louis Romero

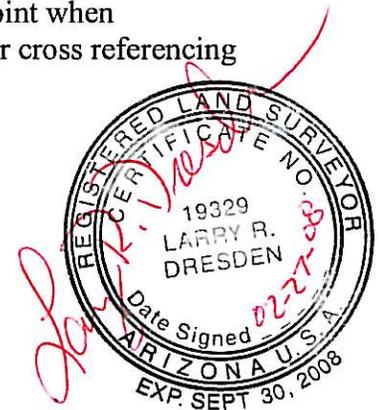
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2395

Found, a 1" diameter Iron Pipe filled with concrete, Encased with concrete, in hand hole, 4" below surface of asphalt road. Originally set in 1957 by Joe Scott. This being the North ¼ Corner for Section, 19, T8S, R23W, of the Gila And Salt River Base And Meridian.

Located on May Ave. and South Edge of the West Main Canal Bank. (<sup>NORTH</sup> south end of May Ave.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'21.53279" North

Longitude 114°39'32.44931" West

Ellipsoid Height 20.528 US survey feet / 20.528 International feet / 6.25695 meters.

North 627,844.627 US survey feet / 627,845.8827 International feet.

East 420,436.163 US survey feet / 420,437.0039 International feet.

NAVD-1988-Elevation

131.49 US survey feet. / 131.49 International feet. / 40.07824 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

131.49 NAVD 1988

-2.15 Area Constant

129.34 U.S. Survey Feet / 129.34 International Feet.

Latest Observation Date: Tuesday, March, 04, 2008 Greenwich Mean Time-03:40:37 PM.

Epoch Date-1204645237

Julian Date- 2454530.15321

Observer: Enrique S. Urbieta & Jesse Gonzalez.

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2396

Found, a 1 ½ " diameter Aluminum Cap, with punch mark, stamped YCHD. Encased with concrete, in hand hole, 3" below surface of asphalt road. This being the Center ¼ Corner of Section, 19, T8S, R23W, of the Gila And Salt River Base And Meridian.

Located on May Ave. and 7ft. north of center of irrigation canal. ( between 5<sup>th</sup> St. and north end of May Ave.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'13.23738" North

Longitude 114°39'32.43731" West

Ellipsoid Height 20.771 US survey feet / 20.771 International feet / 6.33102 meters.

North 627,006.249 US survey feet / 627,007.503 International feet.

East 420,430.005 US survey feet / 420,430.8459 International feet.

NAVD-1988-Elevation

131.75 US survey feet. / 131.75 International feet. / 40.1575 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

131.75 NAVD 1988

-2.15 Area Constant

129.60 U.S. Survey Feet / 129.60 International Feet.

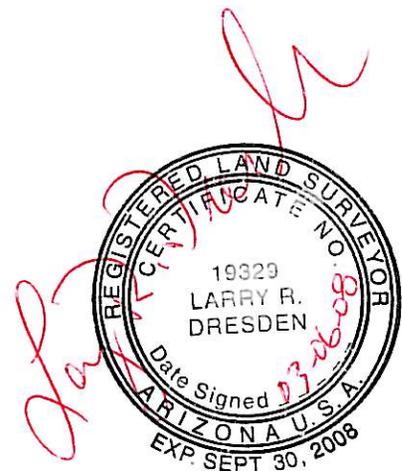
Latest Observation Date: Tuesday, March, 04, 2008 Greenwich Mean Time-05:40:20 PM.

Epoch Date-1204652420

Julian Date- 2454530.23634

Observer: Enrique S. Urbietta & Jesse Gonzalez.

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2397

Found Brass Cap (BLM 1960) dislodged from pipe and badly leaning west. 1.50 feet down a 2 ½ inch iron pipe was found which was vertical and for which the cap fit. Set a 3" diameter Brass cap with punch mark. COY LS 19329-1997, properly stamped. Encased in concrete, 12" below ground. Set frame and cover. Being the North 1/4 of Section 26, T8S,R23W, of the Gila And Salt River Base And Meridian.

Located at: Ave. 2 ½ E. And 8<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'47.42711" North

Longitude 114°35'24.92722" West

Ellipsoid Height 19.162 US survey feet / 19.162 International feet / 5.84059 meters.

North 624,223.451 US survey feet. / 624,224.6994 International feet.

East 441,554.867 US survey feet / 441,555.7501 International feet.

NAVD-1988-Elevation

129.97 US survey feet. / 129.97 International feet. / 39.615 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

129.97 NAVD-1988

-2.15 Area Constant.

127.82 U.S. Survey Feet.

Latest Observation Date: March, 31, 2008. Greenwich Mean Time-05:14:12 PM.

Epoch Date-1206983652

Julian Date- 2454557.21819

Observer: Enrique S. Urbietta and Jesse Gonzalez.

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2398

Found previously a 3 in. dia. BLM-1960, properly stamped brass cap, 2ft. below ground. Set on top of said monument a 3in. dia. LS 19329-COY-2012, brass cap. This is the West Quarter Corner for Section 25, R23W, T8S, of the Gila And Salt River Base And Meridian.

Located at Ave. 3E and 12<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'21.54964" North

Longitude 114°34'54.03099" West

Ellipsoid Height 28.158 US Survey Feet / 28.158 International Feet/ 8.5826 Meters.

North 621,587.3820 US Survey Feet. / 621,588.6252 International Feet.

East 444,174.1870 US Survey Feet. / 444,175.0754 International Feet.

NAVD-1988-Elevation

138.99 US Survey Feet. / 138.99 International Feet. / 42.36424 Meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: March 31, 2008

Previous Observer: Enrique S. Urbieto & Jesse Gonzales

NGVD-1929-Elevation

138.99 NAVD-1988

- 2.15 Area Constant

136.84 US Survey Feet. / 136.84 International Feet. / 41.7089 Meters.

Latest Observation Date: October 02, 2012 Greenwich Mean Time 03:36:23 PM.

Epoch Date - 134919283

Julian Date - 2456203.15027

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2399

Found a 3" diameter. BLM-1960, Brass cap with punch mark. In 2" iron pipe, 2' below sphalt. Being the East 1/4 of Section 25, T8S,R23W, of the Gila And Salt River Base And Meridian.

Located at: Ave. 4 E. And 12<sup>th</sup> St. ( City )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'22.06331" North

Longitude 114°33'52.04655" West

Ellipsoid Height 24.030 US survey feet /24.030 International feet / 7.32436 meters.

North 621,598.195 US survey feet. / 621,599.4382 International feet.

East 449,470.927 US survey feet. / 449,471.8259 International feet.

NAVD-1988-Elevation

134.87 US survey feet. / 134.87 International feet. / 41.10846 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

134.87 NAVD-1988

-2.15 Area Constant.

132.72 U.S. Survey Feet.

Latest Observation Date: April, 02, 2008. Greenwich Mean Time-05:56:35 PM.

Epoch Date-1207158995

Julian Date- 2454559.2763

Observer: Enrique S. Urbietta and Jesse Gonzalez

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2400

Set a 3 " dia. Brass cap, properly stamped. LS 19329-COY-2008, encased in concrete. On ground level. Found remains of a 4x4 Redwood with R/R spike in center. Buried the redwood alongside. Being the Common Corner for Sections,13, 14, 23 and 24, R22W, T9S.

Located on Ave.9E. and 48<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'28.36573" North

Longitude 114°28'40.73604" West

Ellipsoid Height : 154.040 US survey feet / 154.040 International feet / 46.9515 meters.

North 597,786.267 US survey feet / 597,787.4626 International feet.

East 475,909.510 US survey feet / 475,910.4618 International feet.

NAVD-1988-Elevation

265.19 US survey feet. / 265.19 International feet. / 80.8301 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

265.19 NAVD-1988

- 2.15 Area Constant

263.04 US survey feet. / 80.17476 meters.

Latest Observation Date: April, 07, 2008 Greenwich Mean Time 3:52:11 PM.

Epoch Date- 1207583531

Julian Date- 2454564.16124

Observer: Enrique S. Urbietta and Jesse Gonzalez

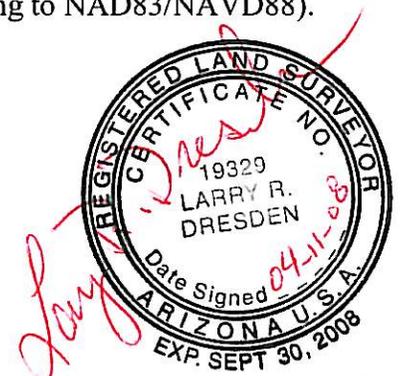
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise Vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2401

Set a 3 " dia. Brass cap properly stamped, LS 19329-COY-2008, encased in concrete. On ground level. Found remains of a 4x4 Redwood 4" above ground. Buried redwood alongside. Being the Common ¼ Corner for Sections, 13 and 24, R22W, T9S.

Located on Ave. 9 ½ E. and 48<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'28.67687" North

Longitude 114°28'09.58520" West

Ellipsoid Height : 172.827 US survey feet / 172.827 International feet / 52.67778 meters.

North 597,799.542 US survey feet / 597,800.7376 International feet.

East 478,573.414 US survey feet / 478,574.3711 International feet.

NAVD-1988-Elevation

283.92 US survey feet. / 283.92 International feet. / 86.539 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

283.92 NAVD-1988

- 2.15 Area Constant

281.77 US survey feet. / 85.8837 meters.

Latest Observation Date: April, 07, 2008 Greenwich Mean Time 5:03:09 PM.

Epoch Date- 1207587789

Julian Date- 2454564.21052

Observer: Enrique S. Urbieta and Jesse Gonzalez

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise Vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2402

Set a 3" dia. Brass cap properly stamped, LS 19329-COY-2008, encased in concrete. On ground level. Found remains of a 4x4 Redwood 4" with 1/2" dia. rebar in center. Buried redwood alongside. Being the Common 1/4 Corner for Sections, 13 and 14, R22W, T9S.

Located on Ave. 9E. and 44<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'54.54330" North

Longitude 114°28'40.97546" West

Ellipsoid Height : 142.751 US survey feet / 142.751 International feet / 43.5106 meters.

North 600,432.027 US survey feet / 600,433.2279 International feet.

East 475,907.270 US survey feet / 475,908.2218 International feet.

NAVD-1988-Elevation

253.85 US survey feet. / 253.85 International feet. / 77.3737 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

253.85 NAVD-1988

-2.15 Area Constant

251.70 US survey feet. / 76.71832 meters.

Latest Observation Date: April, 07, 2008 Greenwich Mean Time 6:02:07 PM.

Epoch Date- 1207591327

Julian Date- 2454564.25147

Observer: Enrique S. Urbieta and Jesse Gonzalez

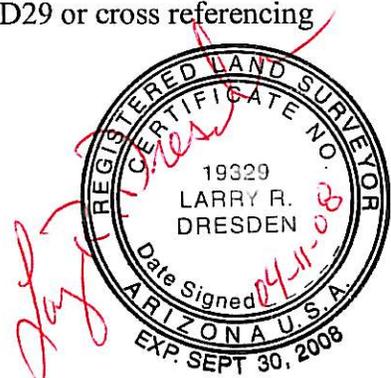
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

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BENCHMARK # 2403

Set by 4 point intersection from found ¼ corners a 3" dia. Brass cap, properly stamped, LS 19329-COY-2008 with punch mark, in 2" dia. Steel pipe encased in concrete. On ground level. Being the Center ¼ Corner of Section, 13, R22W, T9S, of the G.& S.R.B.& M.

Located on Ave. 9 ½ E. and 44<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'54.83827" North

Longitude 114°28'09.84671" West

Ellipsoid Height : 152.626 US survey feet / 152.626 International feet / 46.5206 meters.

North 600,443.683 US survey feet / 600,444.8839 International feet.

East 478,568.981 US survey feet / 478,569.9381 International feet.

NAVD-1988-Elevation

263.67 US survey feet. / 263.67 International feet. / 80.36679 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

263.67 NAVD-1988

-2.15 Area Constant

261.52 US survey feet. / 79.71147 meters.

Latest Observation Date: April, 03, 2008 Greenwich Mean Time 8:06:25 PM.

Epoch Date- 1207253185

Julian Date- 2454560.33779

Observer: Enrique S. Urbieto and Jesse Gonzalez

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that do fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

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BENCHMARK # 2404

Found: Remains of a 4x4 Redwood. Set a 3" dia. Brass cap, properly stamped. LS 19329-COY-2008, in 3" dia. galvanized pipe, encased in concrete. Being the Common 1/4 Corner for Sections, 23 and 24, R22W, T9S. G&SRB&M. Buried the Redwood alongside

Located on Ave.9E. and 52<sup>ND</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'01.82793" North

Longitude 114°28'40.28298" West

Ellipsoid Height : 174.816 US survey feet / 174.816 International feet / 53.28403 meters.

North 595,103.978 US survey feet / 595,105.1682 International feet.

East 475,929.850 US survey feet / 475,930.8019 International feet.

NAVD-1988-Elevation

286.02 US survey feet. / 286.02 International feet. / 87.17908 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

286.02 NAVD-1988

- 2.15 Area Constant

283.87 US survey feet. / 86.52376 meters.

Latest Observation Date: June, 24, 2008 Greenwich Mean Time 4:50:08 PM.

Epoch Date- 1214326208

Julian Date- 2454642.20148

Observer: Enrique S. Urbietta and Jesse Gonzalez

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise Vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

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BENCHMARK # 2405

Found, a ½" diameter rebar, with an obliterated yellow plastic cap. Set a 3" dia. Brass cap, properly stamped. LS 19329-COY-2008, in 3" dia. galvanized pipe encased in concrete. Being the Center ¼ Corner for Section, 23, R22W, T9S.G&SRB&M.

Located on Ave. 8 ½ E. and 52<sup>ND</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'01.96809" North

Longitude 114°29'11.24054" West

Ellipsoid Height : 145.221 US survey feet / 145.221 International feet / 44.26345 meters.

North 595,136.414 US survey feet / 595,137.6043 International feet.

East 473,282.570 US survey feet / 473,283.5166 International feet.

NAVD-1988-Elevation

256.47 US survey feet. / 256.47 International feet. / 78.17222 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

256.47 NAVD-1988

-2.15 Area Constant

254.32 US survey feet. / 77.5169 meters.

Latest Observation Date: June, 24, 2008 Greenwich Mean Time 6:29:50 PM.

Epoch Date- 12143332190

Julian Date- 2454642.27072

Observer: Enrique S. Urbieto and Jesse Gonzalez

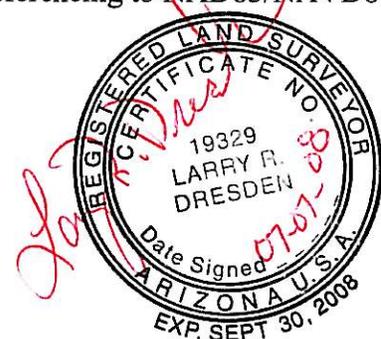
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise Vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

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BENCHMARK # 2406

Set a 3" dia. Brass cap, properly stamped. LS 19329-COY-2008, in a 3" Galvanized pipe encased in concrete. Being the Center ¼ Corner for Section, 24, R22W, T9S, G&SRB&M. Set by intersecting the opposite Quarter Section Corners. Located on Ave. 9 ½ E. and 52<sup>ND</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'02.31646" North

Longitude 114°28'09.25539" West

Ellipsoid Height : 183.620 US survey feet / 183.620 International feet / 55.9675 meters.

North 595,135.253 US survey feet / 595,136.4433 International feet.

East 478,583.554 US survey feet / 478,584.5112 International feet.

NAVD-1988-Elevation

294.76 US survey feet. / 294.76 International feet. / 89.84304 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

294.76 NAVD-1988

-2.15 Area Constant

292.61 US survey feet. / 89.18771 meters.

Latest Observation Date: June, 25, 2008 Greenwich Mean Time 4:11:51 PM.

Epoch Date- 1214410311

Julian Date- 2454643.1749

Observer: Enrique S. Urbieto and Jesse Gonzalez

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise Vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

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BENCHMARK # 2407

Found: 3" brass cap LS15767-1986 with punch mark, in hand hole 11" below asphalt.  
Being the Common ¼ Corner for Sections, 19 and 20, R22W, T9S. G&SRB&M

Located on Ave.5E. and 52<sup>ND</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'00.99413" North

Longitude 114°32'48.05227" West

Ellipsoid Height : 99.56 US survey feet / 99.56 International feet / 30.3459 meters.

North 595,171.946 US survey feet / 595,173.1363 International feet.

East 454,740.945 US survey feet / 454,741.8545 International feet.

NAVD-1988-Elevation

210.54 US survey feet. / 210.54 International feet. / 64.17273 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

210.54 NAVD-1988

-2.15 Area Constant

208.39 US survey feet. / 63.51741 meters.

Latest Observation Date: June, 26, 2008 Greenwich Mean Time 4:28:07 PM.

Epoch Date- 1214497687

Julian Date- 2454644.18619

Observer: Enrique S. Urbieta and Jesse Gonzalez

Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise Vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2408

Found a 3" dia. Brass cap LS 6022 with punch mark. 12" below asphalt, in hand hole. This being the Common Corner of Sections, 17,18,19 and 20, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at: Ave. 5E and 48<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'27.00103" North

Longitude 114°32'48.41780" West

Ellipsoid Height 98.513 US survey feet /98.513 International feet / 30.02682 meters.

North 597,800.533 US survey feet. / 597,801.7286 International feet.

East 454,729.425 US survey feet. / 454,730.3345 International feet.

NAVD-1988-Elevation

209.84 US survey feet. / 209.84 International feet. / 63.95936 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

209.84 NAVD 1988

-2.15 Area Constant

207.69 U.S. Survey Feet / 207.69 International Feet.

Latest Observation Date: June, 26, 2008 Greenwich Mean Time-05:12:20 PM.

Epoch Date-1214500340

Julian Date- 2454644.2169

Observer: Enrique S. Urbieta & Jesse Gonzalez

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2409

Found a 3" dia. Brass cap LS 22767-2006 with punch mark. Encased in concrete in asphalt road. This being the Common  $\frac{1}{4}$  Corner of Sections, 17 and 18, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at: Ave. 5E and 44<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'53.23813" North

Longitude 114°32'48.60009" West

Ellipsoid Height 98.593 US survey feet / 98.593 International feet / 30.05121 meters.

North 600,452.269 US survey feet. / 600,453.4699 International feet.

East 454,733.751 US survey feet. / 454,734.6605 International feet.

NAVD-1988-Elevation

209.87 US survey feet. / 209.87 International feet. / 63.96851 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

209.87 NAVD 1988

-2.15 Area Constant

207.72 U.S. Survey Feet / 207.72 International Feet.

Latest Observation Date: June, 26, 2008 Greenwich Mean Time-08:32:21 PM.

Epoch Date-1214512341

Julian Date- 2454644.3558

Observer: Enrique S. Urbietta & Jesse Gonzalez

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2410

Found: 2 ½ " diameter BLM brass cap, with punch mark, in hand hole, 9" below asphalt encased in concrete. Being the Common ¼ Corner for Sections, 18 and 19, R22W, T9S. G&SRB&M.

Located on Ave.4 ½ E. and 48<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'26.75542" North

Longitude 114°33'19.10516" West

Ellipsoid Height : 97.605 US survey feet / 97.605 International feet / 29.75006 meters.

North 597,795.522 US survey feet / 597,796.7176 International feet.

East 452,105.185 US survey feet / 452,106.0892 International feet.

NAVD-1988-Elevation

208.93 US survey feet. / 208.93 International feet. / 63.682 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

208.93 NAVD-1988

- 2.15 Area Constant

206.78 US survey feet. / 63.02667 meters.

Latest Observation Date: July, 01, 2008 Greenwich Mean Time 3:51:41 PM.

Epoch Date- 1214927501

Julian Date- 2454649.16089

Observer: Enrique S. Urbieta

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2411

Found: ~~Concrete~~ nail with 3/4" Brass Tag LS 6022, in concrete, 6" below ground. Being the Common 1/4 Corner for Sections, 17 and 20, R22W, T9S. G&SRB&M.

Located on Ave. 5 1/2 E. and 48<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'27.20017" North

Longitude 114°32'17.59253" West

Ellipsoid Height : 99.990 US survey feet / 99.990 International feet / 30.47701 meters.

North 597,800.971 US survey feet / 597,802.1666 International feet.

East 457,365.420 US survey feet / 457,366.3347 International feet.

NAVD-1988-Elevation

211.32 US survey feet. / 211.32 International feet. / 64.41047 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

211.32 NAVD-1988

- 2.15 Area Constant

209.17 US survey feet. / 63.75515 meters.

Latest Observation Date: July, 01, 2008 Greenwich Mean Time 5:18:37 PM.

Epoch Date- 12144932717

Julian Date- 2454649.22126

Observer: Enrique S. Urbietta

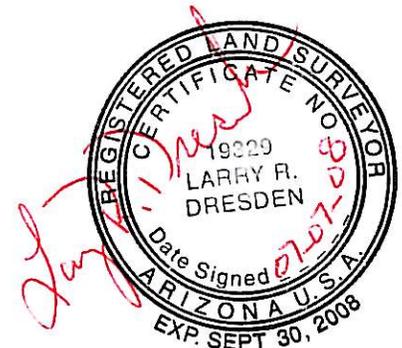
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration Building at 155 West 14<sup>th</sup> Street), the integrity of this particular geodetic survey control point's coordinates and elevation have been compromised and should be re-evaluated by the Surveyor prior to his incorporating it into his survey by his performing a comparison to at least 2 other known geodetic survey control points that situated on the City of Yuma's Datum, (NAD27/NGVD29 or cross referenced to NAD83/NAVD88), that fall within the range of 10 kilometers, (6.21 miles), from the Trimble 4800 GPS Radio Base Station transmitting from COYA, in order to confirm the precise horizontal coordinates and the precise Vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29 or cross referencing to NAD83/NAVD88).

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2412

Found a 3" dia. Brass cap with punch mark, Township and Range missing otherwise properly stamped. RLS19854(2005), MCAS. In 12"X12" Aircraft-Rated Hand Hole. 2" below concrete. 1 mile south of 32<sup>nd</sup> St. and approximately 500' west of the N-W corner of Hanger 97 (MCAS). Being the common corner for Sections, 10, 11, 14 and 15, T9S, R23W, of the G.&S.R.B.&M. Permission needs to be acquired from MCAS prior to occupation of this survey point. Contact, Jose Rodriguez (MCAS surveyor) at (928) 246-7068 in Building #888 to make escort arrangements onto Military Base.

This was recorded in, Book-4, Page-95-97, Fee# 2005-56735. On Dec., 29, 2005.

Located at: Pacific Ave. (Ave. 2E) And 40<sup>th</sup> St. ( MCAS )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'17.73305" North

Longitude 114°35'54.37271" West

Ellipsoid Height 83.178 US survey feet / 83.178 International feet / 25.3527 meters.

North 603,050.958 US survey feet. / 603,052.1641 International feet.

East 438,869.596 US survey feet. / 438,870.8337 International feet.

NAVD-1988-Elevation

194.35 US survey feet. / 194.35 International feet. / 59.238 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

194.35 NAVD-1988

-2.15 Area Constant.

192.20 U.S. Survey Feet.

Latest Observation Date: July, 31, 2008. Greenwich Mean Time-03:51:16 PM.

Epoch Date-1217519476

Julian Date- 2454679.1606

Observer: Enrique S. Urbietta

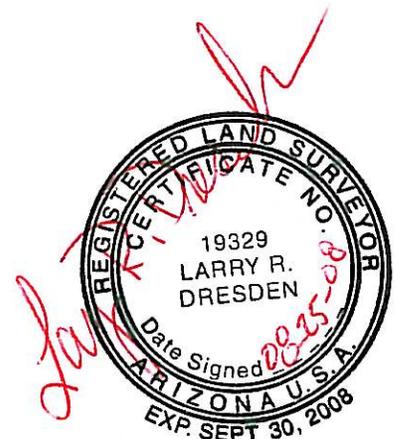
Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2413

Found a 3" dia. Brass cap with punch mark. Township and range missing otherwise properly stamped. RLS19854 (2005), MCAS. Encased in concrete, 2" below ground. Approximately 200' south of CALA Taxi-Way and 100' North of the Perimeter Road (MCAS). Being the common ¼ corner for Sections, 14 and 15, T9S, R23W, of the G.&S.R.B.&M. Permission needs to be acquired from MCAS prior to occupation of this survey point. Contact Jose Rodriguez (MCAS surveyor) at (928) 246-7068 in Building #888 to make escort arrangements onto Military Base.

This was recorded in Book-4, Page-95-97, Fee# 2005-56735. on Dec.,29, 2005.

Located at: Pacific Ave. (Ave. 2E) And 44<sup>th</sup> St. ( MCAS )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'51.56017" North

Longitude 114°35'54.53497" West

Ellipsoid Height 82.332 US survey feet / 82.332 International feet / 25.09484 meters.

North 600,405.947 US survey feet. / 600,407.1478 International feet.

East 438,834.572 US survey feet. / 438,835.4497 International feet.

NAVD-1988-Elevation

193.56 US survey feet. / 193.56 International feet. / 58.9972 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

193.56 NAVD-1988

-2.15 Area Constant.

191.41 U.S. Survey Feet.

Latest Observation Date: July, 31, 2008. Greenwich Mean Time-04:39:54 PM.

Epoch Date-1217522394

Julian Date- 2454679.19437

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2414

Found a 3" dia. Brass cap with punch mark, Township and Range missing otherwise properly stamped. RLS19854 (2005), MCAS. Encased in concrete, on ground level. Approximately 2640' East of Arizona Ave. and 10' South of the Perimeter Road (MCAS). Being the Center ¼ Corner for Section, 15, T9S, R23W, of the Gila And Salt River Base And Meridian. Also found a 4x4 Redwood with nail 0.73' S 31° 55' 48" W from the Center 1/4 Corner of Section 15. Permission needs to be acquired from MCAS prior to occupation of this survey point. Contact Jose Rodriguez (MCAS surveyor) at (928) 246-7068 in Building # 888 to make escort arrangements onto Military Base.

This was recorded in Book-4, Page-95-97, Fee# 2005-56735. On Dec., 29, 2005.

Located at: Fortuna Ave. (Ave. 1 ½ E.) And 44<sup>th</sup> St. (MCAS)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'51.49399" North

Longitude 114°36'25.53013" West

Ellipsoid Height 81.837 US survey feet / 82.332 International feet / 25.09484 meters.

North 600,420.558 US survey feet. / 600,421.7588 International feet.

East 436,184.360 US survey feet. / 436,185.2324 International feet.

NAVD-1988-Elevation

193.08 US survey feet. / 193.08 International feet. / 58.8509 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

193.08 NAVD-1988

-2.15 Area Constant.

190.93 U.S. Survey Feet.

Latest Observation Date: July, 31, 2008. Greenwich Mean Time-05:28:03 PM.

Epoch Date-1217525283

Julian Date- 2454679.22781

Observer: Enrique S. Urbieto

Under the Direct Supervision of:

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2415

Found a 3" dia. Brass cap with punch mark, Township and Range missing otherwise properly stamped. RLS 19854 (2005), MCAS. Encased in concrete, 2" below ground. Approximately 300' N/W of the end of the over-run 3-Right, 21-Left and 100' south of 3-Left, 21-Right, Runways. (MCAS). Being the Common ¼ Corner for Sections, 15 and 16, T9S, R23W, of the G.&.S.R.B.&.M.

Permission needs to be acquired from MCAS prior to occupation of this survey point. Contact Jose Rodriguez (MCAS surveyor) at (928) 246-7068 in Building # 888 to make escort arrangements onto Military Base.

This was recorded in Book-4, Page-95-97, Fee# 2005-56735. On Dec., 29, 2005.

Located at: Arizona Ave.(Ave. 1E). And 44<sup>th</sup> St. ( MCAS )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'51.42587" North

Longitude 114°36'56.53040" West

Ellipsoid Height 74.450 US survey feet / 74.450 International feet / 22.6924 meters.

North 600,435.191 US survey feet. / 600,436.3919 International feet.

East 433,533.710 US survey feet. / 433,534.5771 International feet.

NAVD-1988-Elevation

185.72 US survey feet. / 185.72 International feet. / 56.60757 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

185.72 NAVD-1988

-2.15 Area Constant.

183.57 U.S. Survey Feet.

Latest Observation Date: July, 31, 2008. Greenwich Mean Time-06:44:13 PM.

Epoch Date-1217529853

Julian Date- 2454679.28071

Observer: Enrique S. Urbieto

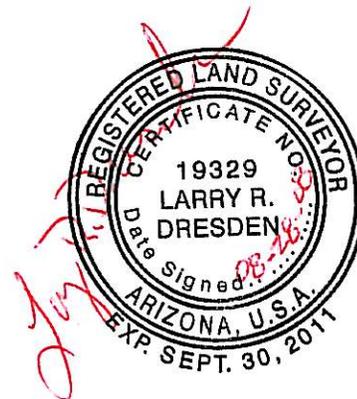
Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2416

Found a 3" dia. Brass cap with punch mark, Township and Range missing otherwise properly stamped. RLS 19854 (2005), MCAS. Encased in concrete, up a hill. Approximately 250' W. of building 1200 and 120' South of Hart Street (MCAS). Being the Common ¼ Corner for Sections, 11 and 14, T9S, R23W, of the Gila And Salt River Base And Meridian. Permission needs to be acquired from MCAS surveyor prior to occupation of this survey point. Contact Jose Rodriguez (MCAS surveyor) at (928) 246-7068 in Building # 888 to make escort arrangements onto Military Base.

This was recorded in Book-4, Page-95-97, Fee # 2005-56735. On Dec., 29, 2005.

Located at: Ave. 2 ½ E And 40<sup>th</sup> St. ( MCAS )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'18.07226" North

Longitude 114°35'23.28055" West

Ellipsoid Height 144.583 US survey feet / 144.583 International feet / 44.06899 meters.

North 603,064.093 US survey feet. / 603,065.2991 International feet.

East 441,528.107 US survey feet. / 441,528.9901 International feet.

NAVD-1988-Elevation

255.75 US survey feet. / 255.75 International feet. / 77.95276 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

255.75 NAVD-1988

-2.15 Area Constant.

253.60 U.S. Survey Feet.

Latest Observation Date: July, 31, 2008. Greenwich Mean Time-07:36:35 PM.

Epoch Date-1217532995

Julian Date- 2454679.31707

Observer: Enrique S. Urbieta

Under the Direct Supervision of:

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2417

Found a 3" dia. Brass cap with punch mark, Township and Range missing otherwise properly stamped. RLS 19854 (2005). 2" below concrete, in a 12"x12" Aircraft-Rated Hand Hole. On Taxi-Way Delta, Approximately 2640' S. of 32<sup>nd</sup> St. and 300' North of Runway 3-Right - 21-Left (MCAS). Being the Common ¼ Corner for Sections, 10 and 11, T9S, R23W, of the Gila And Salt River Base And Meridian.

Permission needs to be acquired from MCAS prior to occupation of this survey point. Contact Jose Rodriguez (MCAS surveyor) at (928) 246-7068 in Building # 888 to make escort arrangements onto Military Base.

This was recorded in Book-4, Page-95-97, Fee# 2005-56735. On Dec., 29, 2005.

Located at: Pacific Ave.(Ave. 2E.) And 36<sup>th</sup> St. ( MCAS )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'43.82374" North

Longitude 114°35'54.82460" West

Ellipsoid Height 82.472 US survey feet / 82.472 International feet / 25.1375 meters.

North 605,688.084 US survey feet. / 605,689.2954 International feet.

East 438,852.049 US survey feet. / 438,852.9267 International feet.

NAVD-1988-Elevation

193.60 US survey feet. / 193.60 International feet. / 59.0094 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

193.60 NAVD-1988

-2.15 Area Constant.

191.45 U.S. Survey Feet.

Latest Observation Date: August, 08, 2008. Greenwich Mean Time-02:54:38 PM.

Epoch Date-1218207278

Julian Date- 2454687.12127

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2418

Found a 3" dia. Brass cap with punch mark, Township and Range missing otherwise properly stamped. RLS 19854(2005). 2" below concrete, in a 12"x12" Aircraft-Rated Hand Hole. On the Apron, Approximately 30' S. of Charley Taxi-Way, and 400' North of Building 212 (MCAS). Being the Center ¼ Corner for Section, 11, T9S, R23W, of the G.&S.R.B.&M.

Permission needs to be acquired from MCAS prior to occupation of this survey point. Contact Jose Rodriguez (MCAS surveyor) at (928) 246-7068 in Building # 888 to make escort arrangements onto Military Base.

This was recorded in Book-4, Page-95-97, Fee# 2005-56735. On Dec., 29, 2005

Located at: Ave. 2 ½ E. And 36<sup>th</sup> St. ( MCAS )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'44.19152" North

Longitude 114°35'23.71843" West

Ellipsoid Height 100.269 US survey feet / 100.269 International feet / 30.56205 meters.

North 605,704.096 US survey feet. / 605,705.3074 International feet.

East 441,511.565 US survey feet. / 441,512.4480 International feet.

NAVD-1988-Elevation

211.38 US survey feet. / 211.38 International feet. / 64.4287 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

211.38 NAVD-1988

-2.15 Area Constant.

209.23 U.S. Survey Feet.

Latest Observation Date: August, 08, 2008. Greenwich Mean Time-03:48:46 PM.

Epoch Date-1218210526

Julian Date- 2454687.15887

Observer: Enrique S. Urbieto

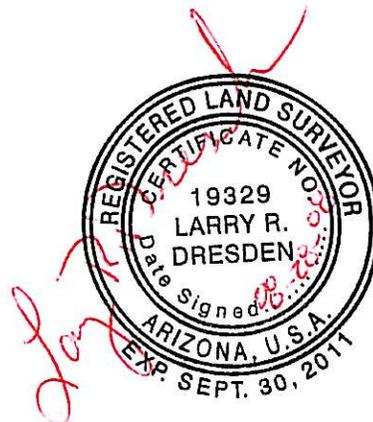
Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

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BENCHMARK # 2419

Found a 3" dia. Brass cap with punch mark, Township and Range missing otherwise properly stamped. RLS 19854-2005. Encased in concrete, In between two Runways. Approximately 150' S. of 3-Left, 21-Right and 200' N. of 3-Right, 21-Left (MCAS). Being the Common ¼ Corner for Sections,10, and 15, T9S, R23W, of the Gila And Salt River Base And Meridian. Permission needs to be acquired from MCAS prior to occupation of this survey point. Contact Jose Rodriguez (MCAS surveyor) at (928) 246-7068 in Building # 888 to make escort arrangements onto Military Base.

This was recorded in Book-4, Page-95-97, Fee# 2005-56735. On Dec., 29, 2005.

Located at: Fortuna Ave.(Ave. 1 ½ E.) And 40<sup>th</sup> St. ( MCAS )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'17.69915" North

Longitude 114°36'25.43155" West

Ellipsoid Height 69.572 US survey feet / 69.572 International feet / 21.20559 meters.

North 603,068.871 US survey feet. / 603,070.0771 International feet.

East 436,214.181 US survey feet. / 436,215.0534 International feet.

NAVD-1988-Elevation

180.76 US survey feet. / 180.76 International feet. / 55.09576 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

180.76 NAVD-1988

-2.15 Area Constant.

178.61 U.S. Survey Feet.

Latest Observation Date: August, 08, 2008. Greenwich Mean Time-05:19:27 PM.

Epoch Date-1218215967

Julian Date- 2454687.22184

Observer: Enrique S. Urbietta

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2420

Found a 3" dia. Brass cap with punch mark, Township and Range missing otherwise properly stamped. BLM - 1954. 7 in. below asphalt in Hand-Hole. (Inside the Fed-Ex entrance gate to Airport-MCAS). Being the Center ¼ Corner for Section,10, T9S, R23W, of the G.&.S.R.B.&.M. Permission needs to be acquired from MCAS prior to occupation of this survey point. Contact, Jose Rodriguez (MCAS surveyor) at (928) 246-7068 in Building #888 to make escort arrangements onto Military Base.

This was recorded in, Book-4, Page-95-97, Fee# 2005-56735. Dec., 29, 2005.

Located at: Fortuna Ave. (Ave.1 ½ E.) And 36<sup>th</sup> St. ( MCAS )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'43.75914" North

Longitude 114°36'25.80797" West

Ellipsoid Height 78.526 US survey feet / 78.526 International feet / 23.93477 meters.

North 605,702.845 US survey feet. / 605,704.0564 International feet.

East 436,203.274 US survey feet. / 436,204.1464 International feet.

NAVD-1988-Elevation

189.67 US survey feet. / 189.67 International feet. / 57.81153 meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

189.67 NAVD-1988

-2.15 Area Constant.

187.52 U.S. Survey Feet.

Latest Observation Date: August, 08, 2008. Greenwich Mean Time-09:09:44 PM.

Epoch Date-1218229784

Julian Date- 2454687.38176

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2421

Found a 3" dia. Brass Cap with punch mark. BLM-1972. 4' north of concrete irrigation canal, and approximately 2640' west of Ave. B. On ground level. This being the Center ¼ Corner of Section 20, T9S, R23W, of the Gila And Salt River Base And Meridian.

Located in the intersection of Ave. A ½ . and Co. 13 ½ St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'58.95909" North

Longitude 114°38'28.93189" West

Ellipsoid Height 6.365 US survey feet / 6.365 International feet / 1.94005 Meters.

North 595,198.156 US survey feet. / 595,199.3464 International feet.

East 425,588.639 US survey feet. / 425,589.4902 International feet.

NAVD-1988-Elevation

117.81 US survey feet. / 117.81 International feet. / 35.90856 Meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

117.81 NAVD-1988

- 2.15 Area Constant

115.66 US survey feet. / 115.66 International Feet. / 35.25324 Meters.

Latest Observation Date: September, 03, 2008 Greenwich Mean Time-05:02:46 PM.

Epoch Date-1220461366

Julian Date- 2454713.21025

Observer: Enrique S. Urbietta

Under the Direct Supervision of : Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2422

Found a 2 ½" dia. Brass Cap with punch mark. BLM-1967. 12" below asphalt. [REDACTED]  
[REDACTED] This being the Common ¼  
Corner of Sections, 2 and 11, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located in the intersection of Fortuna Ave. (Ave. D ½) . and Co. 11 St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'09.18852" North

Longitude 114°41'35.54215" West

Ellipsoid Height 4.368 US survey feet / 4.368 International feet / 1.33136 Meters.

North 608,497.497 US survey feet. / 608,498.656 International feet.

East 409,747.492 US survey feet. / 409,748.3115 International feet.

NAVD-1988-Elevation

115.81 US survey feet. / 115.81 International feet. / 35.29896 Meters.

These are the results of 30 min. Trimble <sup>5</sup>4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

115.81 NAVD-1988

- 2.15 Area Constant

113.66 US survey feet. / 113.66 International Feet. / 34.64364 Meters.

Latest Observation Date: September, 12, 2008 Greenwich Mean Time-05:47:09 PM.

Epoch Date-1221241629

Julian Date- 2454722.24108

Observer: Enrique S. Urbietta and Jesse Gonzalez.

Under the Direct Supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2423

Found a 1 inch diameter by 18 inches long badly rusted iron pipe with thread, 6 inches below ground. Set a 3 inch diameter brass cap, properly stamped. LS 19329-COY-2008, in 8 inch diameter PVC pipe, encased in concrete, with cast iron lid approximately 6 inches below ground. Being the Center Quarter Corner for Section 35, T8S, R23W, of the Gila and Salt River Base and Meridian.

Located on Ave.2.5E. and 20<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'29.07744" North

Longitude 114°35'24.60908" West

Ellipsoid Height : 29.394 US survey feet / 29.394 International feet / 8.95932 meters.

North 616,304.879 US survey feet / 616,306.1116 International feet.

East 441,519.354 US survey feet / 441,520.2370 International feet.

NAVD-1988-Elevation

140.32 US survey feet. / 140.32 International feet. / 42.7697 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

140.32 NAVD-1988

-2.15 Area Constant

138.17 Survey feet. / 42.1143 meters.

Latest Observation Date: February, 23, 2009 Greenwich Mean Time 8:35:02 PM.

Epoch Date- 1235421302

Julian Date- 2454886.35766

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2424

Setting a 3in. diameter brass cap with COY-2012-LS19329, for the East Quarter Corner of Section 28, Township 8 South, Range 23 West, of the Gila and Salt River Base and Meridian, by single proportional measurement, between the found Northeast Corner, and the found Southeast Corner, of said Section 28.

The Survey Monument set by Juan Lomeli with brass tag LS # 22767 at S 68°38'55"E a distance of 10.81' from said set point, perhaps represents the center of Twelve Street, since it was based upon a found monument at 10<sup>th</sup>. Street, and a found monument at 14<sup>th</sup>. Street, on Arizona Avenue, but neither necessarily being on the Section Line.

Located at Arizona Ave. and 12<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'20.89861" North

Longitude 114°36'57.62639" West

Ellipsoid Height 57.427 US Survey Feet / 57.427 International Feet / 17.40628 Meters.

North 621,606.133 US Survey Feet. / 621,607.3762 International Feet.

East 433,612.733 US Survey Feet. / 433,613.6002 International Feet.

NAVD-1988-Elevation

168.34 US Survey Feet. / 168.34 International Feet. / 51.31014 Meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: November 28, 2007 Previous Observer: Enrique S. Urbietta

NGVD-1929-Elevation

168.34 NAVD 1988

-2.15 Area Constant

166.19 U.S. Survey Feet / 166.19 International Feet.

Latest Observation Date: March 22, 2012 Greenwich Mean Time-03:40:12 PM.

Epoch Date-1332430812

Julian Date- 2456009.15292

Observer: Enrique S. Urbietta

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2381

Found and accepted as the best evidence available a 1½ inch galvanized steel pipe, concrete encased, with a brass tag in center L.S. # 22767 ( Juan Lomeli ). For the E ¼ Corner of Section 28, and the W ¼ Corner of Section 27, T8S, R23W, of the Gila And Salt River Base And Meridian. The nearby C.O.Y. Benchmark # 2288 set by L.S. 19329 was removed.

Located at the intersection of Arizona Ave. and 12<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'20.86064" North

Longitude 114°36'57.50810" West

Ellipsoid Height 57,107 US survey feet / 57,107 International feet / 17,40628 meters.

North 621,602.126 US survey feet. / 621,603.3692 International feet.

East 433,622.852 US survey feet. / 433,623.7192 International feet.

NAVD-1988-Elevation

168.00 US survey feet. / 168.00 International feet. / 51.206507 meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

168.00 NAVD 1988

-2.15 Area Constant

165.85 U.S. Survey Feet / 165.85 International Feet.

Latest Observation Date: Wednesday, November 28, 2007 Greenwich Mean Time-04:09:55 PM.

Epoch Date-1196266195

Julian Date-2454433.1755

Observer: Enrique S. Urbina & Jessy Gonzalez.

Under the Direct Supervision of : Larry R. Dresden  
Registered Land Surveyor  
Arizona License #19329  
California License # 5643

SEE  
BM 2424

4011  
12-28-11  
CRD



BENCHMARK # 2425

Found a 3in. diameter aluminum cap, LS 30348-DAVEY- no year otherwise properly stamped, 8 inches below ground. Set a 6in. PVC pipe and survey cap on it. This is the West Quarter Corner of Section 18, T10S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 4E and 92<sup>nd</sup> . St. ( Co. 18<sup>1/2</sup>. St. ) -East-

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°33'36.17044" North

Longitude 114°33'46.95575" West

Ellipsoid Height 115.897 US Survey Feet / 115.897 International Feet / 35.3255 Meters.

North 568,446.2300 US Survey Feet. / 568,447.3669 International Feet.

East 449,499.2480 US Survey Feet. / 449,500.1470 International Feet.

NAVD-1988-Elevation

227.83 US Survey Feet. / 227.83 International Feet. / 69.44273 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:                      Previous Observer:

NGVD-1929-Elevation

227.83 NAVD-1988

- 2.15 Area Constant

225.68 US Survey Feet. / 225.68 International Feet. / 68.78741 Meters.

Latest Observation Date: January 24, 2013 Greenwich Mean Time 04:32:54 PM.

Epoch Date - 1359045174                      Julian Date - 2456317.18951

Observer: Enrique S. Urbieta and Jesus Gonzalez.

DISCLAIMER STATEMENT

Since this point is outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying from the Trimble GPS Radio Base Station at COYA, the integrity of the point's coordinates and elevations have been compromised and should be re-evaluated prior to usage by comparison to at least 2 other known points on the City of Yuma Datum within the 10 Kilometers, (6.21 miles), range of the Trimble GPS Radio Base Station at COYA, in order to verify the correct coordinates and elevations of the point in

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Larry R. Dresden

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BENCHMARK # 2426

Found on October 02, 1989 according to, Yuma County Highway Department a 2 ½ in. dia. GLO-1910? Brass cap. Found a 2 ½ in. dia. GLO-1910?-2006, brass cap properly stamped, 2 ½ ft. below ground inside a 6in. ABC pipe, added a survey lid. This is the Southwest Corner of Section 18, T10S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 4E and 96<sup>th</sup>. St. ( Co. 19<sup>th</sup>. St. ) -East-

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°33'10.03766" North

Longitude 114°33'46.65575" West

Ellipsoid Height 105.243 US Survey Feet / 105.243 International Feet / 32.078131 Meters.

North 565,804.9930 US Survey Feet. / 565,806.1246 International Feet.

East 449,504.7570 US Survey Feet. / 449,505.6560 International Feet.

NAVD-1988-Elevation

217.23 US Survey Feet. / 217.23 International Feet. / 66.21184 Meters.

These are the results of 7 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

217.23 NAVD-1988

- 2.15 Area Constant

215.08 US Survey Feet. / 215.08 International Feet. / 65.55652 Meters.

Latest Observation Date: January 24, 2013 Greenwich Mean Time 05:45:15 PM.

Epoch Date - 1359049515

Julian Date - 2456317.23976

Observer: Enrique S. Urbietta and Jesus Gonzalez.

DISCLAIMER STATEMENT

Since this point is outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying from the Trimble GPS Radio Base Station at COYA, the integrity of the point's coordinates and elevations have been compromised and should be re-evaluated prior to usage by comparison to at least 2 other known points on the City of Yuma Datum within the 10 Kilometers, (6.21 miles), range of the Trimble GPS Radio Base Station at COYA, in order to verify the correct coordinates and elevations of the point in

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BENCHMARK # 2427

On January 22, 1980 YCHD found a ¾ in. IP which was set in 1966 by Flynn of APS on top of found 4x4 redwood, according to book 6, page 78 of the YCHD Section Corner Records. Also on May 8, 1983, YCHD. replaced the IP with a 3in. dia. lead cap in frame and cover, according to book 39-83, page 26, of the YCHD Section Corner Records. Found a 3in. dia. lead cap, Yuma County-1983 properly stamped, 11 inches below asphalt in frame and cover. This is the SE Corner for Section 29, T9S, R23W, of the Gila And Salt River Base And Meridian.

Located at Ave. A and 64<sup>th</sup>. St. ( Co. 15<sup>th</sup> St. )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°36'40.62175" North

Longitude 114°37'57.13971" West

Ellipsoid Height 80.790 US Survey Feet / 80.790 International Feet / 24.62485 Meters.

North 587,258.0700 US Survey Feet. / 587,259.2445 International Feet.

East 428,241.5710 US Survey Feet. / 428,242.4275 International Feet.

NAVD-1988-Elevation

192.42 US Survey Feet. / 192.42 International Feet. / 58.64974 Meters.

These are the results of 30 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

192.42 NAVD-1988

- 2.15 Area Constant

190.27 US Survey Feet. / 190.27 International Feet. / 57.99442 Meters.

Latest Observation Date: February 20, 2013 Greenwich Mean Time 08:13:52 PM.

Epoch Date - 1361348032

Julian Date - 2456344.34296

Observer: Enrique S. Urbieto and Jesus Gonzalez.

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TEMPORARY BENCHMARK # 2428

Set a 12in. nail with brass tag, LS 19329-COY flush with asphalt, as witness corner This is on the Section Line and Being S00°03'41"W a distance of 200.00ft. to the Northwest Corner of Sections 12, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located South of 32<sup>nd</sup> Street ( I - 8 ) on Ave. 9E

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'11.14372" North

Longitude 114°28'41.57099" West

Ellipsoid Height 101.523 US Survey Feet / 101.523 International Feet / 30.9443 Meters.

North 608,173.9910 US Survey Feet. / 608,175.2074 International Feet.

East 475,909.2630 US Survey Feet. / 475,910.2148 International Feet.

NAVD-1988-Elevation

212.41 US Survey Feet. / 212.41 International Feet. / 64.7427 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

212.41 NAVD-1988

- 2.15 Area Constant

210.26 US Survey Feet. / 210.26 International Feet. / 64.0874 Meters.

Latest Observation Date: April 25, 2013 Greenwich Mean Time 05:30:33 PM.

Epoch Date - 1366911033

Julian Date - 2456408.22955

Observer: Enrique S. Urbieta

Under the Direct Supervision of : Larry R. Dresden

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TEMPORARY BENCHMARK # 2429

Set a 12in. nail with brass tag, LS 19329-COY flush with asphalt, as witness corner This is on the Section Line and Being S00°03'41"W a distance of 400.00ft. to the Northwest Corner of Sections 12, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located South of 32<sup>nd</sup> Street ( I - 8 ) on Ave. 9E

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'09.16484" North

Longitude 114°28'41.55745" West

Ellipsoid Height 100.804 US Survey Feet / 100.804 International Feet / 30.72512 Meters.

North 607,973.9910 US Survey Feet. / 607,975.2151 International Feet.

East 475,909.0490 US Survey Feet. / 475,910.0008 International Feet.

NAVD-1988-Elevation

211.70 US Survey Feet. / 211.70 International Feet. / 64.5263 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

211.70 NAVD-1988

- 2.15 Area Constant

209.55 US Survey Feet. / 209.55 International Feet. / 63.8710 Meters.

Latest Observation Date: April 25, 2013 Greenwich Mean Time 05:56:44 PM.

Epoch Date - 1366912604

Julian Date - 2456408.24773

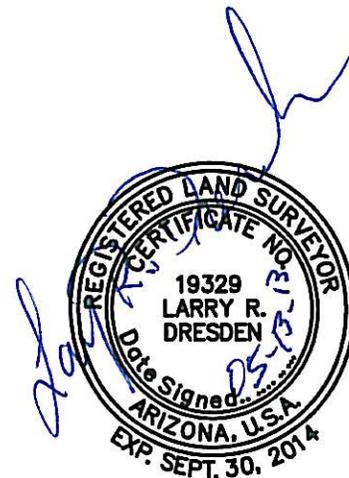
Observer: Enrique S. Urbieta

Under the Direct Supervision of : Larry R. Dresden

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TEMPORARY BENCHMARK # 2429

Set a 12in. nail with brass tag, LS 19329-COY flush with asphalt, as witness corner This is on the Section Line and Being S00°03'41"W a distance of 400.00ft. to the Northwest Corner of Sections 12, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located South of 32<sup>nd</sup> Street ( I - 8 ) on Ave. 9E

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'09.16484" North

Longitude 114°28'41.55745" West

Ellipsoid Height 100.804 US Survey Feet / 100.804 International Feet / 30.72512 Meters.

North 607,973.9910 US Survey Feet. / 607,975.2151 International Feet.

East 475,909.0490 US Survey Feet. / 475,910.0008 International Feet.

NAVD-1988-Elevation

211.70 US Survey Feet. / 211.70 International Feet. / 64.5263 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

211.70 NAVD-1988

- 2.15 Area Constant

209.55 US Survey Feet. / 209.55 International Feet. / 63.8710 Meters.

Latest Observation Date: April 25, 2013 Greenwich Mean Time 05:56:44 PM.

Epoch Date - 1366912604

Julian Date - 2456408.24773

Observer: Enrique S. Urbietta

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TEMPORARY BENCHMARK # 2430

Set a 12in. nail with brass tag, LS 19329-COY flush with asphalt, as witness corner This is on the Mid-Section Line and Being S00°02'51"E a distance of 200.00ft. to the North Quarter Corner of Sections 12, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located South of 32<sup>nd</sup> Street ( I - 8 ) on Mesa Ave. ( Ave. 9½ E )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'11.37318" North

Longitude 114°28'10.56121" West

Ellipsoid Height 111.884 US Survey Feet / 111.884 International Feet / 34.0890 Meters.

North 608,179.1010 US Survey Feet. / 608,180.3174 International Feet.

East 478,560.1650 US Survey Feet. / 478,561.1221 International Feet.

NAVD-1988-Elevation

222.71 US Survey Feet. / 222.71 International Feet. / 67.88215 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

222.71 NAVD-1988

- 2.15 Area Constant

220.56 US Survey Feet. / 220.56 International Feet. / 67.22683 Meters.

Latest Observation Date: April 25, 2013 Greenwich Mean Time 06:21:23 PM.

Epoch Date - 1366914083

Julian Date - 2456408.26485

Observer: Enrique S. Urbieta

Under the Direct Supervision of : Larry R. Dresden

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TEMPORARY BENCHMARK # 2431

Set a 12in. nail with brass tag, LS 19329-COY flush with asphalt, as witness corner This is on the Mid-Section Line and Being S00°02'51"E a distance of 400.00ft. to the North Quarter Corner of Sections 12, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located South of 32<sup>nd</sup> Street ( I - 8 ) on Mesa Ave. ( Ave. 9½ E )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'09.39432" North

Longitude 114°28'10.54341" West

Ellipsoid Height 111.293 US Survey Feet / 111.293 International Feet / 33.9222 Meters.

North 607,979.1010 US Survey Feet. / 607,980.3170 International Feet.

East 478,560.3310 US Survey Feet. / 478,561.2881 International Feet.

NAVD-1988-Elevation

222.13 US Survey Feet. / 222.13 International Feet. / 67.7054 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

222.13 NAVD-1988

- 2.15 Area Constant

219.98 US Survey Feet. / 219.98 International Feet. / 67.05004 Meters.

Latest Observation Date: April 25, 2013 Greenwich Mean Time 06:42:11 PM.

Epoch Date - 1366915331

Julian Date - 2456408.27929

Observer: Enrique S. Urbieta

Under the Direct Supervision of : Larry R. Dresden

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TEMPORARY BENCHMARK # 2432

Set a 12in. nail with brass tag, LS 19329-COY 3 inches below ground, as witness corner This is on the Section Line and Being S00°11'46"E a distance of 200.00ft. to the Northeast Corner of Sections 12, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located South of 32<sup>nd</sup> Street ( I - 8 ) on Ave. 10E

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'11.60033" North

Longitude 114°27'39.58256" West

Ellipsoid Height 142.766 US Survey Feet / 142.766 International Feet / 43.1552 Meters.

North 608,184.2110 US Survey Feet. / 608,185.4274 International Feet.

East 481,208.3990 US Survey Feet. / 481,209.3614 International Feet.

NAVD-1988-Elevation

253.54 US Survey Feet. / 253.54 International Feet. / 77.27915 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

253.54 NAVD-1988

-2.15 Area Constant

251.39 US Survey Feet. / 251.39 International Feet. / 76.62383 Meters.

Latest Observation Date: April 25, 2013 Greenwich Mean Time 07:27:09 PM.

Epoch Date - 1366918029

Julian Date - 2456408.31052

Observer: Enrique S. Urbietta

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TEMPORARY BENCHMARK # 2433

Set a 12in. nail with brass tag, LS 19329-COY, 3 inches below ground, as witness corner This is on the Section Line and Being S00°11'46"E a distance of 400.00ft. to the Northeast Corner of Sections 12, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located South of 32<sup>nd</sup> Street ( I - 8 ) on Ave. 10E

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'09.62151" North

Longitude 114°27'39.55888" West

Ellipsoid Height 143.120 US Survey Feet / 143.120 International Feet / 43.6231 Meters.

North 607,984.2120 US Survey Feet. / 607,985.4280 International Feet.

East 481,209.0840 US Survey Feet. / 481,210.0464 International Feet.

NAVD-1988-Elevation

253.89 US Survey Feet. / 253.89 International Feet. / 77.38583 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

253.89 NAVD-1988

-2.15 Area Constant

251.74 US Survey Feet. / 251.74 International Feet. / 76.73051 Meters.

Latest Observation Date: April 25, 2013 Greenwich Mean Time 07:46:54 PM.

Epoch Date - 1366919214

Julian Date - 2456408.32424

Observer: Enrique S. Urbietta

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