

BENCHMARK # 2145

Found a 1in. diameter pipe 8in. 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  $\frac{1}{4}$  Corner for Sections 14 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: Ave. 2  $\frac{1}{2}$  E And 48<sup>th</sup> St. ( MCAS )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'25.67744" North

Longitude 114°35'23.48540" West

Ellipsoid Height 95.414 US Survey Feet / 95.414 International Feet / 29.08225 Meters.

North 597,768.9150 US Survey Feet. / 597,770.1105 International Feet.

East 441,468.7350 US Survey Feet. / 441,469.6179 International Feet.

NAVD-1988-Elevation

206.73 US Survey Feet. / 206.73 International Feet. / 63.01144 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

206.73 NAVD-1988

-2.15 Area Constant.

204.58 US Survey Feet.

Latest Observation Date: August 11, 2011. Greenwich Mean Time-02:38:41 PM.

Epoch Date-1313073521

Julian Date- 2455785.1102

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2146

Found a 1in. diameter pipe 8in. 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 ¼ Corner for Sections 15 and 22, 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: Fortuna Ave. ( Ave. 1 1/2E ) and 48<sup>th</sup> St. ( MCAS )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'25.28368" North

Longitude 114°36'25.62934" West

Ellipsoid Height 89.430 US survey feet / 89.430 International feet / 27.25833 meters.

North 597,771.5670 US Survey Feet. / 597,772.7625 International Feet.

East 436,154.4920 US Survey Feet. / 436,155.3643 International Feet.

NAVD-1988-Elevation

200.77 US Survey Feet. / 200.77 International Feet. / 61.19483 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

200.77 NAVD-1988

-2.15 Area Constant.

198.62 U.S. Survey Feet.

Latest Observation Date: August 11, 2011. Greenwich Mean Time-03:20:43 PM.

Epoch Date-1313076043

Julian Date- 2455785.13939

Observer: Enrique S. Urbietta

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2147

Found a 1in. diameter pipe 8in. 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 15, 16, 21 and 22, 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: Arizona Ave. ( Ave. 1E ) and 48<sup>th</sup> St. ( MCAS )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'25.19110" North

Longitude 114°36'56.56478" West

Ellipsoid Height 90.842 US Survey Feet / 90.842 International Feet / 27.6887 Meters.

North 597,783.6630 US Survey Feet. / 597,784.8586 International Feet.

East 433,509.1220 US Survey Feet. / 433,509.9890 International Feet.

NAVD-1988-Elevation

202.20 US Survey Feet. / 202.20 International Feet. / 61.6307 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

202.20 NAVD-1988

-2.15 Area Constant.

200.05 US Survey Feet.

Latest Observation Date: August 11, 2011. Greenwich Mean Time-04:02:03 PM.

Epoch Date-1313078523

Julian Date- 2455785.16809

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2148

Found a Cotton Picker Spindle Stem, 6in. below asphalt. This being 2646.20ft. (M), 2645.54ft. (R) from the West Quarter Corner. And 2645.97ft. (M) 2645.83ft. (R) from the East Quarter Corner. This point is 0.10ft. North of straight line between the Quarter Corners. This being the Center ¼ Corner of Section 16, T9S, R23W, of the Gila And Salt River Base And Meridian.

Located at 4<sup>TH</sup>. Ave. and 44<sup>TH</sup> ST.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'51.40965" North

Longitude 114°37'27.47519" West

Ellipsoid Height 84.469 US Survey Feet /84.469 International Feet / 25.74621 Meters.

North 600,455.0750 US Survey Feet. / 600,456.2759 International Feet.

East 430,887.7780 US Survey Feet. / 430,888.6398 International Feet.

NAVD-1988-Elevation

195.80 US survey feet. / 195.80 International feet. / 59.6800 Meters.

These are the results of 3 min. Trimble 4800 RTK Observation with 2003 Geoid.

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

195.80 NAVD-1988

- 2.15 Area Constant

193.65 US survey feet. / 193.65 International Feet. / 59.02465 Meters.

Latest Observation Date: August 11, 2011 Greenwich Mean Time 06:19:40 PM.

Epoch Date-1313086780

Julian Date- 2455785.26366

Observer: Enrique S. Urbieto

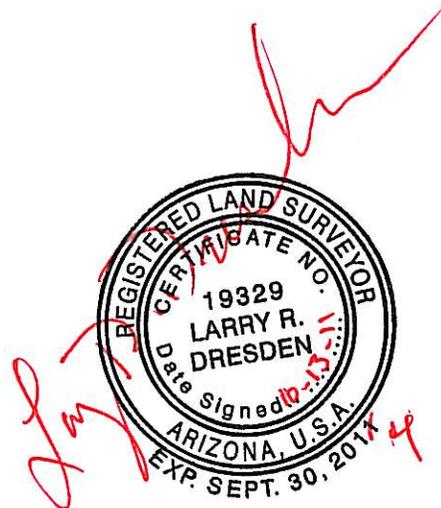
Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2149

In 1976 the Yuma County Highway Department found a 2.5" diameter iron pipe, inside a 4" iron pipe from existing YCWUA reference points. A 3" diameter lead cap was properly stamped and set March 12, 1980 by the YCHD encased in concrete, below asphalt, inside of a frame and cover, according to Book 1 Page 129, YCHD Section Corner Records. Found a 3" diameter Brass Cap LS 16592 with punch mark, no date nor company name, otherwise properly stamped, 7in. below asphalt in fame and cover. This is the common Section Corner, for Sections 19 and 30, T9S, R23W, and Sections 24 and 25, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located in the intersection of Ave. C and 56<sup>th</sup>. St. (Co. 14<sup>th</sup>. St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'32.34424" North

Longitude 114°40'01.49242" West

Ellipsoid Height 1.895 US Survey Feet / 1.895 International Feet / 0.5776 Meters.

North 592,575.4140 US Survey Feet / 592,576.5992 International Feet.

East 417,649.7760 US Survey Feet / 417,650.6113 International Feet.

NAVD-1988-Elevation

113.57 US Survey Feet. / 113.57 International Feet. / 34.61621 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

113.57 NAVD-1988

-2.15 Area Constant

111.42 US Survey Feet. / 33.9609 Meters.

Latest Observation Date: September 12, 2011 Greenwich Mean Time - 05:00:25 PM.

Epoch Date - 1315846825

Julian Date - 2455817.20862

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2150  
STATION AMVD

Description: Set 3" diameter brass cap flush with asphalt and stamped AMVD.

Location: Parking lot of the "old" Arizona Motor Vehicle Department at 292 13<sup>th</sup> Street. At the Northeast Corner of 3<sup>rd</sup> Avenue and 13<sup>th</sup> Street.

NAD-1927-Coordinates (Arizona West Zone 0203)

North 621,062.457 survey feet

East 231,718.297 survey feet

NGVD-1929-Elevation

195.94 survey feet, (or 59.72 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'15.73878" North

Longitude 114°37'22.52219" West

Ellipsoid Height 87.162 survey feet, (or 26.567 meters)

North 621,102.09575 survey feet

East 431,481.14804 survey feet

NAVD-1988-Elevation

198.08 survey feet, (or 60.37 meters)

Previous Observation Date:

Previous Observer:

Latest Observation Date:

Observer:

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License #5643

*Surrounded by an 8' high  
Chain link fence with  
Gate which is lockable  
with a cable/chain and the  
lock furnished by the  
individual Surveyor.*

*- ALMOST -  
TORN OUT  
BY ADOT  
DEMO  
CONTRACTOR  
MARCH 13, 2006,*

*Larry R. Dresden*  


GPS MAIN CONTROL NETWORK  
Revised April 1<sup>st</sup>, 2000

BENCHMARK # 2151

Station: MISSION

DB1353

Location: On the North bank of the Colorado River and about 100 feet West of the "old"  
OCEAN TO OCEAN BRIDGE.

Description: Found 3" dia. U.S.C.&G.S. brass cap in concrete flush with ground and dated 1964.

Latitude 32°43'44.80651" N (NAD-83)  
Longitude 114°36'56.89089" W (NAD-83)

State Plane Coordinants (NAD-83) Arizona West Zone - 0203 (U.S. Survey Foot)  
N 630,085.81100  
E 433,744.84800

State Plane Coordinants (NAD-27) Arizona West Zone - 0203 (U.S. Survey Foot)  
N 630,046.20361  
E 233,981.93824

ELEVATION (U.S. Survey Foot)  
180.25 (NGVD29)  
182.37 (NAVD88)

NAD-83 Ellipsoid Height  
21.822 (Meters)  
71.594 (U.S. Survey Foot)



BENCHMARK # 2152  
STATION PT23

DB 1328

Found 3" diameter U.S. G.L.O. brass cap. This is a ¼ section corner between Sections 7 and 12 and is also Point Number 23 on the Arizona-California Boundary Line. Dated 1946 and 1964.

Being located at Avenue 4E and County 5-1/2 Street.

NAD-1927-Coordinates (Arizona West Zone 0203)

North 637,398.42098 survey feet

East 249,820.05488 survey feet

NGVD-1929-Elevation

135.42 survey feet, (or 41.28 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°44'58.78987" North

Longitude 114°33'52.15882" West

Ellipsoid Height 26.978 survey feet, (or 8.22 meters)

North 637,437.84051 survey feet

East 449,583.13822 survey feet

NAVD-1988-Elevation

137.55 survey feet, (or 41.93 meters)

Previous Observation Date:

Previous Observer:

Latest Observation Date:

Observer:

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



GPS MAIN CONTROL NETWORK

Revised April 1<sup>st</sup>, 2000

BENCHMARK #2153

Station: E149

Location: Ave. 7E and County <sup>4</sup>/<sub>1</sub> 1/2 Street.

Description: Found 3" dia. Yuma County brass cap in a handhole.

Latitude 32°44'59.77241" N (NAD-83)

Longitude 114°30'48.82701" W (NAD-83)

State Plane Coordinants (NAD-83) Arizona West Zone - 0203 (U.S. Survey Foot)

N 637,420.48896

E 465,241.36002

State Plane Coordinants (NAD-27) Arizona West Zone - 0203 (U.S. Survey Foot)

N 637,381.25134

E 265,478.13608

ELEVATION (U.S. Survey Foot)

146.34 (NGVD29)

148.50 (NAVD88)

NAD-83 Ellipsoid Height

11.628 (Meters)

38.150 (U.S. Survey Foot)



GPS MAIN CONTROL NETWORK

Revised April 1<sup>st</sup>, 2000

# 2154

BENCHMARK ~~# 5154~~

Station: GATE

D 5317  
E

Location: Ave. 11E and County 6<sup>th</sup> Street. (approximate)

Description: Found 3" dia. Bureau of Land Management brass cap. (Meander Corner)

Latitude 32°44'37.99552" N (NAD-83)

Longitude 114°26'31.68070" W (NAD-83)

State Plane Coordinants (NAD-83) Arizona West Zone - 0203 (U.S. Survey Foot)

N 635,068.69364

E 487,188.43591

State Plane Coordinants (NAD-27) Arizona West Zone - 0203 (U.S. Survey Foot)

N 635,029.61903

E 287,425.01905

ELEVATION (U.S. Survey Foot)

171.78 (NGVD29)

173.96 (NAVD88)

NAD-83 Ellipsoid Height

19.497 (Meters)

63.967 (U.S. Survey Foot)



BENCHMARK # 2155  
STATION RAIL

Found a 3 inch diameter brass cap, in a hand hole approximately 1 foot below the asphalt road surface.

This is a Section Corner being the  
Southeast Corner of Section 36, T8S, R22W;  
Southwest Corner of Section 31, T8S, R21W;  
Northeast Corner of Section S1, T9S, R22W;  
Northwest Corner of Section S6, T9S, R21W, of the Gila and Salt River Base and Meridian.

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

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude

Longitude

Ellipsoid Height

North 613,638.911 survey feet / *613,640.1383 INTERNATIONAL FEET.*  
East 281,423.005 survey feet / *281,423.5678 INTERNATIONAL FEET.*

NGVD-1929-Elevation

224.17 survey feet, (or 68.327 meters) / *224.1704 INTERNATIONAL FEET.*

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'05.956" North

Longitude 114°27'40.272" West

Ellipsoid Height 115.81 survey feet, (or 35.299 meters) / *115.8102 INTERNATIONAL FEET.*  
North 613,678.036 survey feet / *613,679.2634 INTERNATIONAL FEET.*  
East 481,186.290 survey feet / *481,187.2524 INTERNATIONAL FEET.*

NAVD-1988-Elevation

226.39 survey feet, (or 69.005 meters) / *226.3904 INTERNATIONAL FEET.*

Previous Observation Date:

Previous Observer:

Latest Observation Date:

Observer:

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



GPS MAIN CONTROL NETWORK

Revised April 1<sup>st</sup>, 2000

BENCHMARK # 2#157

Station: BOMB

Location: Ave. 9 1/2E and County 14<sup>th</sup> Street.

Description: Found 3" dia. Bureau of Reclamation brass cap.

Latitude 32°37'35.99006" N (NAD-83)

Longitude 114°28'08.92405" W (NAD-83)

State Plane Coordinants (NAD-83) Arizona West Zone - 0203 (U.S. Survey Foot)

N 592,474.68619

E 478,593.77332

State Plane Coordinants (NAD-27) Arizona West Zone - 0203 (U.S. Survey Foot)

N 592,435.53350

E 278,830.58700

ELEVATION (U.S. Survey Foot)

322.57 (NGVD29)

324.73 (NAVD88)

NAD-83 Ellipsoid Height

65.129 (Meters)

213.678 (U.S. Survey Foot)



GPS MAIN CONTROL NETWORK

Revised April, 1<sup>st</sup>, 2000

BENCHMARK# 2158

STATION SE 31

Found ½ inch diameter rebar with plastic cap LS 16552. Set a 3 inch diameter Brass Cap properly stamped, dated 1997. Set frame and cover. This being the common Corner for Section, 31 and 32, T9S, R22W, and for Sections 5 and 6, T10S, R22W, of the Gila and Salt River Base and Meridian.

Location: Avenue 5 E and County 16<sup>th</sup> Street. (City 72 Street)

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°35'49.99323" North

Longitude 114°32'46.35780" West

Ellipsoid Height 92.110 US survey feet. / 28.075 meters.

North 581,892.10032 US survey feet.

East 255,023.86379 US survey feet.

NGVD-1929-Elevation

201.49 US survey feet. / 61.4143 meters

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°35'49.99323" North

Longitude 114°32'46.35780" West

Ellipsoid Height 92.110 US survey feet, / 28.075 meters.

North 581,931.50023 US survey feet

East 454,786.78614 US survey feet

NAVD-1988-Elevation

203.66 US survey feet, / 62.0757 meters.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License# 19329

California License# 5643



GPS MAIN CONTROL NETWORK

Revised April 1<sup>st</sup>, 2000

BENCHMARK # <sup>2.</sup> #159

Station: COFE

Location: Ave. B 1/2 and County 16<sup>th</sup> Street. (approximate)

Description: Found 3" dia. Corps of Engineer's brass cap set in concrete flush with the ground approximately 200 feet North and 500 feet East of said intersection.

*ON COCOPAH RESERVATION — Requires Permission to Enter,*

Latitude 32°35'49.79992" N (NAD-83)

Longitude 114°39'21.07239" W (NAD-83)

State Plane Coordinants (NAD-83) Arizona West Zone - 0203 (U.S. Survey Foot)

N 582,182.19464

E 421,018.37047

State Plane Coordinants (NAD-27) Arizona West Zone - 0203 (U.S. Survey Foot)

N 582,142.42309

E 221,255.78963

ELEVATION (U.S. Survey Foot)

184.75 (NGVD29)

186.94.(NAVD88)

NAD-83 Ellipsoid Height

22.905 (Meters)

75.148 (U.S. Survey Foot)



GPS MAIN CONTROL NETWORK  
Revised April 1<sup>st</sup>, 2000

BENCHMARK # 2160

Station: W412

Location: Ave. D and County 11 1/2 Street.

Description: Found 3" dia. brass cap in a handhole. This is the quarter section corner which is  
Is common to sections 11 and 12. Dated 1986 with LS # 15767.

Latitude 32°39'42.94765" N (NAD-83)

Longitude 114°41'04.44061" W (NAD-83)

State Plane Coordinants (NAD-83) Arizona West Zone - 0203 (U.S. Survey Foot)

N 605,821.76919

E 412,382.29419

State Plane Coordinants (NAD-27) Arizona West Zone - 0203 (U.S. Survey Foot)

N 605,781.90921

E 212,619.69279

ELEVATION (U.S. Survey Foot)

119.64 (NGVD29)

121.81 (NAVD88)

NAD-83 Ellipsoid Height

3.153 (Meters)

10.344 (U.S. Survey Foot)



GPS MAIN CONTROL NETWORK

Revised April 1<sup>st</sup>, 2000  
10-17-07

BENCHMARK # 2161  
Station: COCO

Location: Ave. D1/2 ( Strand Ave.) and County 7<sup>th</sup> Street.

Description: Found a 3in. diameter Bureau of land Management brass cap, stamped 1965 in concrete 1 foot above ground. This being the ¼ corner common to Sections 30 and 31, T16S, R22E of the San Bernardino Base Meridian.

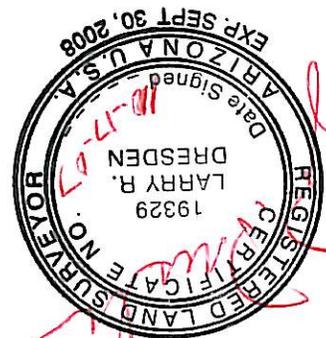
Latitude 32° 43' 43.57049" N (NAD-83)  
Longitude 114° 41' 27.94305" W (NAD-83)

State Plane Coordinants (NAD-83) Arizona West Zone – 0203 ( U.S. Survey foot)  
N 630,158.31057  
E 410,588.84933

State Plane Coordinants (NAD-27) Arizona West Zone – 0203 (U.S. Survey Foot)  
N 630,118.43903  
E 210,826.15219

ELEVATION (U.S. Survey Foot)  
126.39 (NGVD29)  
128.52 (NAVD88)

NAD-83 Ellipsoid Height  
5.332 (Meters)  
17.4934 (U.S. Survey Foot).



BENCHMARK# 2163  
STATION GILA

Found a 3 inch diameter brass cap.

This is a ¼ Corner being the

South ¼ Corner of Section 19, T9S, R20W;

North ¼ Corner of Section 30, T9S, R20W, of the Gila and Salt River Base and Meridian.

Being located at the intersection of Avenue 16-½ E and County 14<sup>th</sup> Street.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude North

Longitude West

Ellipsoid Height survey feet, (or meters)

North 592,315.87 survey feet

East 312,941.37 survey feet

NGVD-1929-Elevation

600.18 survey feet, (or 182.94 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'36.91138" North

Longitude 114°21'30.07053" West

Ellipsoid Height 492.62 survey feet, (or 150.15 meters)

North 592,354.73 survey feet

East 512,704.86 survey feet

NAVD-1988-Elevation

602.39 survey feet, (or 183.61 meters)

Previous Observation Date: 01-08-2001

Previous Observer: ROBERT COOPER

Latest Observation Date:

Observer:

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License# 19329

California License# 5643



BENCHMARK# 2164  
PAUL

Atop roof of City of Yuma Public Works Administration Building, at the southwest corner on the east side of parapet wall at 155W. 14<sup>th</sup> Street Yuma, AZ.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude

Longitude

Ellipsoid Height

North 619,898.09 survey feet

East 232,404.10 survey feet

NGVD-1929-Elevation

219.89 survey feet, (or 67.02 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32° 42' 04.27377"N

Longitude 114° 37' 14.38494W

Ellipsoid Height 111.11 survey feet, (or 33.87 meters)

North 619,937.60 survey feet

East 432,166.95 survey feet

NAVD-1988-Elevation

222.05 survey feet, (or 67.68 meters)

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



BENCHMARK# 2165  
COYA

Atop roof of City of Yuma Public Works Administration Building, at the southwest corner on the west side of parapet wall at 155W. 14<sup>th</sup> Street Yuma, AZ.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude

Longitude

Ellipsoid Height

North 619,898.16 survey feet

East 232,395.80 survey feet

NGVD-1929-Elevation

220.18 survey feet, (or 67.11 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32° 42' 04.27378" N

Longitude 114° 37' 14.48233 W

Ellipsoid Height 111.40 survey feet, (or 33.96 meters)

North 619,937.67 survey feet

East 432,158.63 survey feet

IF  
IF

NAVD-1988-Elevation

222.41 survey feet, (or 67.77 meters)

Under the direct supervision of Larry R Dresden

Registered Land Surveyor

Arizona License #19329

California License#5643

TRANSMITTING FREQUENCY OF  
453.37500 (Channel #1)

OR

458.37500 (Channel #2)

USING A

TRIMBLE 4800 RECEIVER & TRIMMARK IIe Radio



BENCHMARK # 2167

Found in May 20, 1976 a Railroad Spike according to Yuma County Highway Department, Section Corners and Quarter Section Corner, Book 1, Page 136. Found a 1/2in. diameter Rebar, no Brass Tag or Cap, 6in. below asphalt. This is the Common Quarter Corner of Section 19, T9S, R23W and Section 24, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. C and 52<sup>nd</sup>. ST. (Co. 13 1/2 St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'58.56377" North

Longitude 114°40'01.58615" West

Ellipsoid Height 0.581 US Survey Feet / 0.581 International Feet / 0.17709 Meters.

North 595,225.3520 US Survey Feet. / 595,226.5425 International Feet.

East 417,664.6320 US Survey Feet. / 417,665.4673 International Feet.

NAVD-1988-Elevation

112.20 US Survey Feet. / 112.20 International Feet. / 34.19864 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

112.20 NAVD-1988

- 2.15 Area Constant

110.05 US Survey Feet. / 110.05 International Feet. / 33.54332 Meters.

Latest Observation Date: September 13, 2011 Greenwich Mean Time 04:40:32 PM.

Epoch Date-1315932032

Julian Date- 2455818.19481

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2168

Found a 1 1/2in. diameter Iron Pipe inside a 3in. diameter iron pipe, 6in. below asphalt. Found on May 20, 1976, according YCHD Section Corner and Quarter Section Corners, Book 1, Page 137. This is the Common Section Corner for Sections 18 and 19, T9S, R23W and Section 13 and 24, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. C and 48<sup>th</sup>. ST. (Co. 13 St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'24.78079" North

Longitude 114°40'01.68612" West

Ellipsoid Height 1.658 US Survey Feet / 1.658 International Feet / 0.50536 Meters.

North 597,875.0430 US Survey Feet. / 597,876.2388 International Feet.

East 417,678.9580 US Survey Feet. / 417,679.7934 International Feet.

NAVD-1988-Elevation

113.23 US Survey Feet. / 113.23 International Feet. / 34.51258 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

113.23 NAVD-1988

-2.15 Area Constant

111.08 US Survey Feet. / 111.08 International Feet. / 33.85726 Meters.

Latest Observation Date: September 13, 2011 Greenwich Mean Time 05:44:08 PM.

Epoch Date-1315935848

Julian Date- 2455818.23898

Observer: Enrique S. Urbieta

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2169

In 1980 the Yuma County Highway Department found a Railroad Spike set in 1964 by USBR in pavement, from existing YCWUA reference points, according to YCHD Section Quarter and Quarter Section Corner, Book 6, Page 91. Found a 1in. diameter iron pipe, 8in. below asphalt. This is the Common Quarter Corner for Sections 18 and 19, T9S, R23W, of the Gila And Salt River Base And Meridian.

Located at Ave. B 1/2 and 48<sup>th</sup>. ST. (Co. 13 St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'24.78174" North

Longitude 114°39'30.87440" West

Ellipsoid Height 4.236 US Survey Feet / 4.236 International Feet / 1.29114 Meters.

North 597,852.4960 US Survey Feet. / 597,853.6917 International Feet.

East 420,313.6920 US Survey Feet. / 420,314.5326 International Feet.

NAVD-1988-Elevation

115.77 US Survey Feet. / 115.77 International Feet. / 35.28678 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

115.77 NAVD-1988

- 2.15 Area Constant

113.62 US Survey Feet. / 113.62 International Feet. / 35.54586 Meters.

Latest Observation Date: September 13, 2011 Greenwich Mean Time 06:57:14 PM.

Epoch Date - 1315940234

Julian Date - 2455818.28975

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2170

In 1978 the Yuma County Highway Department found a 3/8" diameter rebar inside a 2.5" diameter pipe from existing YCWUA reference points. A 3" diameter lead cap was properly stamped and set February 24, 1980 by the YCHD encased in concrete 9 inches below asphalt, inside of a frame and cover, according to YCHD Book 1 Page 132, YCHD Section Corner Records. This is the Common Quarter Corner for Sections 24 and 25, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. C 1/2 and 56<sup>th</sup>. ST. (Co. 14 St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'31.98642" North

Longitude 114°40'32.01813" West

Ellipsoid Height - 0.476 US Survey Feet / - 0.476 International Feet / - 0.1451 Meters.

North 592,561.8870 US Survey Feet. / 592,563.0721 International Feet.

East 415,038.7590 US Survey Feet. / 415,039.5891 International Feet.

NAVD-1988-Elevation

111.25 US Survey Feet. / 111.25 International Feet. / 33.9091 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

111.25 NAVD-1988

- 2.15 Area Constant

109.10 US Survey Feet. / 109.10 International Feet. / 33.25375 Meters.

Latest Observation Date: September 14, 2011 Greenwich Mean Time 07:06:24 PM.

Epoch Date - 1317919127

Julian Date - 2455819.29611

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2171

In 1979 The Yuma County Highway Department found a 5/8" diameter iron pin 0.10ft. below ground, set by USBR from existing reference points, according to YCHD Book 5 Page 30 YCHD Section Corner Records. Found a 2 1/2in. diameter Bureau of Reclamation Cap - 1961, with punch mark and Sections stamped, inside a 8in. PVC pipe with a survey lid, 15in. below asphalt. This is the Common Quarter Corner for Sections 13 and 24, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. C 1/2 and 48<sup>th</sup>. ST. (Co. 13 St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'24.67734" North

Longitude 114°40'32.39776" West

Ellipsoid Height 0.930 US Survey Feet / 0.930 International Feet / 0.28347 Meters.

North 597,887.3690 US Survey Feet. / 597,888.5648 International Feet.

East 415,052.6890 US Survey Feet. / 415,053.5191 International Feet.

NAVD-1988-Elevation

112.55 US Survey Feet. / 112.55 International Feet. / 34.30532 Meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

112.55 NAVD-1988

- 2.15 Area Constant

110.40 US Survey Feet. / 110.40 International Feet. / 33.650 Meters.

Latest Observation Date: September 15, 2011 Greenwich Mean Time 05:26:32 PM.

Epoch Date - 1317928053

Julian Date - 2455820.22676

Observer: Enrique S. Urbietta

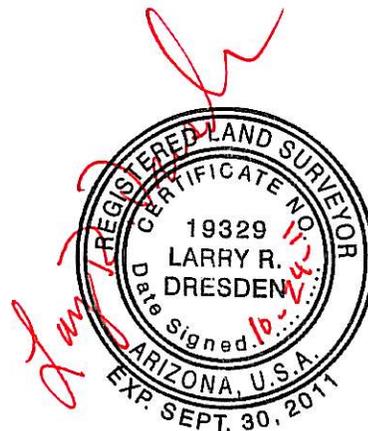
Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

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BENCHMARK # 2172

In 1970 the Yuma County Highway Department found a ½" rebar bent and replaced it with a 1" Iron pipe. Set 5"x2' conc. Cylinder with rebar in center for reference points according to Book 1 Page 74, YCHD Section Corner Records. Found a 1in. diameter iron pipe, inside a 8in. PVC pipe with a survey lid, 22in. below asphalt. This is the Common Quarter Corner for Sections 12 and 13, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. C 1/2 and 40<sup>th</sup>. ST. (Co. 12 St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'16.74117" North

Longitude 114°40'33.21568" West

Ellipsoid Height 3.452 US Survey Feet / 3.452 International Feet / 1.0518 Meters.

North 603,149.8140 US Survey Feet. / 603,151.0230 International Feet.

East 415,028.6230 US Survey Feet. / 415,029.4531 International Feet.

NAVD-1988-Elevation

114.98 US Survey Feet. / 114.98 International Feet. / 35.046 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

114.98 NAVD-1988

- 2.15 Area Constant

112.83 US Survey Feet. / 112.83 International Feet. / 34.39066 Meters.

Latest Observation Date: September 13, 2011 Greenwich Mean Time 06:57:14 PM.

Epoch Date - 1316195002

Julian Date - 2455821.23845

Observer: Enrique S. Urbieto

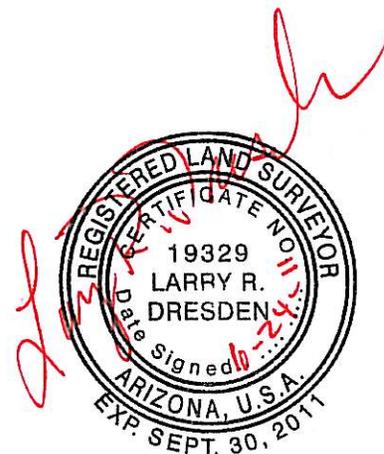
Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2173

In 1979 the Yuma County Highway Department found a 4x4 redwood post from existing YCWU reference points, according to Book 5 Page 31, YCHD Section Corner Records. Found a 2in. diameter iron pipe, 12in. below asphalt. This is the Common Quarter Corner for Sections 13 and 14, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. D and 44<sup>th</sup>. ST. (Co. 12 1/2 St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'50.91147" North

Longitude 114°41'03.52219" West

Ellipsoid Height 7.201 US Survey Feet / 7.201 International Feet / 2.19487 Meters.

North 600,562.0270 US Survey Feet. / 600,563.2281 International Feet.

East 412,414.5330 US Survey Feet. / 412,415.3578 International Feet.

NAVD-1988-Elevation

118.82 US Survey Feet. / 118.82 International Feet. / 36.21642 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

118.82 NAVD-1988

- 2.15 Area Constant

116.67 US Survey Feet. / 116.67 International Feet. / 35.5611 Meters.

Latest Observation Date: September 20, 2011 Greenwich Mean Time 05:01:21 PM.

Epoch Date - 1316538081

Julian Date - 2455825.20927

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

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BENCHMARK # 2174

In 1972 the Yuma County Highway Department set a 3" diameter Lead Cap with two 3" diameter Lead Caps as reference points on canal headwalls. On May 30, 1980 YCHD found a 3" diameter Lead Cap with punch mark in center, obliterated, encased in concrete, 9" below asphalt, according to Book 1 Page 89, YCHD Section Corner Records This is the Common Section Corner for Sections 13, 14, 23 and 24, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. D and 48<sup>th</sup>. ST. (Co. 13<sup>th</sup>. St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'24.71754" North

Longitude 114°41'03.43963" West

Ellipsoid Height 2.654 US Survey Feet / 2.654 International Feet / 0.80895 Meters.

North 597,914.6720 US Survey Feet. / 597,915.8678 International Feet.

East 412,398.3040 US Survey Feet. / 412,399.1288 International Feet.

NAVD-1988-Elevation

114.33 US Survey Feet. / 114.33 International Feet. / 34.84786 Meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

114.33 NAVD-1988

- 2.15 Area Constant

112.18 US Survey Feet. / 112.18 International Feet. / 34.19254 Meters.

Latest Observation Date: October 26, 2011 Greenwich Mean Time 05:36:23 PM.

Epoch Date - 1319650583

Julian Date - 2455861.2336

Observer: Enrique S. Urbieta

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2175

In 1978 the Yuma County Highway Department found a 2" Iron Pipe from existing YCWUA reference points. A 3" diameter Lead Cap was properly stamped and set February 27, 1980, by the YCHD encased in concrete 6" below asphalt, inside of a frame and cover, according to Book 1 Page 134, YCHD Section Corner Records. This is the Common Section Corner for Sections 23, 24, 25 and 26, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. D and 56<sup>th</sup>. ST. (Co. 14<sup>th</sup>. St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'32.01835" North

Longitude 114°41'03.24745" West

Ellipsoid Height - 0.874 US Survey Feet / - 0.874 International Feet / - 0.26640 Meters.

North 592,588.4870 US Survey Feet. / 592,589.6722 International Feet.

East 412,367.9030 US Survey Feet. / 412,368.7277 International Feet.

NAVD-1988-Elevation

110.90 US Survey Feet. / 110.90 International Feet. / 33.8024 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

110.90 NAVD-1988

- 2.15 Area Constant

108.75 US Survey Feet. / 108.75 International Feet. / 33.1471 Meters.

Latest Observation Date: September 21, 2011 Greenwich Mean Time 06:08:16 PM.

Epoch Date - 1316628496

Julian Date - 2455826.25574

Observer: Enrique S. Urbieto, Jesse Gonzalez.

Under the Direct Supervision of:

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

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BENCHMARK # 2176

In 1979 Yuma County Highway Department found ¾" iron pipe from existing YCWUA reference points. A ¾" diameter iron pipe was found on May 30, 1980, by the YCHD 9" below asphalt, according to Book 5 Page 32, YCHD Section Corner Records. This is the Common Quarter Corner for Sections 23 and 24, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. D and 52<sup>nd</sup>. ST. (Co. 13 1/2 St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'58.36818" North

Longitude 114°41'03.34587" West

Ellipsoid Height 1.050 US Survey Feet / 1.050 International Feet / 0.3201 Meters.

North 595,251.6030 US Survey Feet. / 595,252.7935 International Feet.

East 412,382.9020 US Survey Feet. / 412,383.7268 International Feet.

NAVD-1988-Elevation

112.77 US Survey Feet. / 112.77 International Feet. / 34.3724 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

112.77 NAVD-1988

- 2.15 Area Constant

110.62 US Survey Feet. / 110.62 International Feet. / 33.7171 Meters.

Latest Observation Date: September 22, 2011 Greenwich Mean Time 05:01:04 PM.

Epoch Date - 1316710864

Julian Date - 2455827.20907

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2177

In July 1970 Yuma County Highway Department found a 3"x3" redwood post 1' below ground according to Book 1 Page 75, YCHD Section Corner Records. Found a 1/2in. diameter Rebar, no cap or brass tag, 12in. below asphalt. This is the Common Section Corner for Sections 11,12, 13 and 14, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. D and 40<sup>th</sup>. ST. (Co. 12<sup>th</sup>. St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'16.45165" North

Longitude 114°41'04.35775" West

Ellipsoid Height 9.212 US Survey Feet / 9.212 International Feet / 2.80783 Meters.

North 603,143.8800 US Survey Feet. / 603,145.0863 International Feet.

East 412,365.8070 US Survey Feet. / 412,366.6317 International Feet.

NAVD-1988-Elevation

120.79 US Survey Feet. / 120.79 International Feet. / 36.8169 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

120.79 NAVD-1988

- 2.15 Area Constant

118.64 US Survey Feet. / 118.64 International Feet. / 36.1616 Meters.

Latest Observation Date: September 27, 2011 Greenwich Mean Time 07:05:32 PM.

Epoch Date - 1317150332

Julian Date - 2455832.29551

Observer: Enrique S. Urbietta

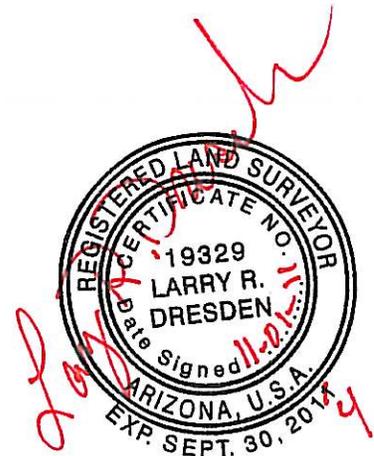
Under the Direct Supervision of :

Larry R. Dresden

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BENCHMARK # 2178

Found a 1 1/2in. diameter iron pipe, no cap or brass tag, with existing Yuma County Water Users Association reference points on irrigation canal headwalls, 12in. below ground. This pipe was found 0.27' SW of the 4 point interception from the Section Quarter Corners. This is the Center Quarter Corner for Section 19, T9S, R23W, of the Gila And Salt River Base And Meridian.

Located at Ave. B 1/2 and 52<sup>nd</sup> . ST. (Co. 13 1/2 St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'58.67555" North

Longitude 114°39'30.80604" West

Ellipsoid Height 2.956 US Survey Feet / 2.956 International Feet / 0.9010 Meters.

North 595,214.0320 US Survey Feet. / 595,215.2224 International Feet.

East 420,296.9720 US Survey Feet. / 420,297.8126 International Feet.

NAVD-1988-Elevation

114.53 US Survey Feet. / 114.53 International Feet. / 34.90882 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

114.53 NAVD-1988

- 2.15 Area Constant

112.38 US Survey Feet. / 112.38 International Feet. / 34.2535 Meters.

Latest Observation Date: September 29, 2011 Greenwich Mean Time 04:25:48 PM.

Epoch Date - 1317313548

Julian Date - 2455834.18458

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

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BENCHMARK # 2179

Found a 5/8in. diameter Rebar, badly rusted, no cap or brass tag, 4in. below ground. This point was found 0.21' NW from calculated point from 4 point interception of Section Quarter Corners. This is the Center Quarter Corner for Section 13, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. C 1/2 and 44<sup>th</sup>. ST. (Co. 12 1/2 St.)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'50.86424" North

Longitude 114°40'32.81116" West

Ellipsoid Height 3.187 US Survey Feet / 3.187 International Feet / 0.9714 Meters.

North 600,534.2570 US Survey Feet. / 600,535.4581 International Feet.

East 415,040.4080 US Survey Feet. / 415,041.2381 International Feet.

NAVD-1988-Elevation

114.76 US Survey Feet. / 114.76 International Feet. / 34.9790 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

114.76 NAVD-1988

- 2.15 Area Constant

112.61 US Survey Feet. / 112.61 International Feet. / 34.3236 Meters.

Latest Observation Date: September 29, 2011 Greenwich Mean Time 05:17:55 PM.

Epoch Date - 1317316675

Julian Date - 2455834.22078

Observer: Enrique S. Urbieta

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2180

Found a 2 1/2in. diameter BLM Brass Cap - 1960, with punch mark and Sections stamped, encased in concrete, 40in. below gravel road. This is the Common Quarter Corner for Sections 31 and 32, T8S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 5E and 20<sup>th</sup>. ST.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'30.23608" North

Longitude 114°32'50.14599" West

Ellipsoid Height 31.555 US Survey Feet / 31.555 International Feet / 9.6180 Meters.

North 616,320.1290 US Survey Feet. / 616,321.3616 International Feet.

East 454,720.7900 US Survey Feet. / 454,721.6994 International Feet.

NAVD-1988-Elevation

142.49 US Survey Feet. / 142.49 International Feet. / 43.43104 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

142.49 NAVD-1988

- 2.15 Area Constant

140.34 US Survey Feet. / 140.34 International Feet. / 42.77572 Meters.

Latest Observation Date: October 22, 2010 Greenwich Mean Time 07:52:12 PM.

Epoch Date - 1286913132

Julian Date - 2455492.32792

Observer: Enrique S. Urbietta

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2181

Found a 3/4in. rebar ( badly rusted ) inside an 8in. dia. PVC pipe with survey lid, 18in. below field road. This is the Center ¼ Corner for Section 26, T8S, R23W, G&SRB&M.

Located on Atlantic Ave. and 12<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'21.29172" North

Longitude 114°35'24.84351" West

Ellipsoid Height : 27.125 US Survey Feet / 27.125 International Feet / 8.26772 Meters.

North 621,582.0740 US Survey Feet / 621,583.3172 International Feet.

East 441,541.1320 US Survey Feet / 441,542.0151 International Feet.

NAVD-1988-Elevation

137.97 US Survey Feet. / 137.97 International Feet. / 42.05334 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

137.97 NAVD-1988

-2.15 Area Constant

135.82 US Survey Feet. / 41.39802 Meters.

Latest Observation Date: April, 25, 2012 Greenwich Mean Time 4:30:33 PM.

Epoch Date- 1335371433

Julian Date- 2456043.18788

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2182

Set a 3 inch diameter Brass Cap LS 19329-COY-2012 properly stamped, inside a 6 inch PVC pipe 6 inches below Central Canal bank, as witness corner. ( C1/4 corner falls in canal ) This is 40' Geodetic N00°20'45"E to the Center Quarter Corner for Section 7, T9S, R23W, of the Gila And Salt River Base And Meridian.

Located at Ave. B 1/2 and 36<sup>th</sup> . ST.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'43.11161" North

Longitude 114°39'31.24499" West

Ellipsoid Height 10.869 US Survey Feet / 10.869 International Feet / 3.3129 Meters.

North 605,769.1700 US Survey Feet. / 605,770.3815 International Feet.

East 420,349.7450 US Survey Feet. / 420,350.5857 International Feet.

NAVD-1988-Elevation

122.26 US Survey Feet. / 122.26 International Feet. / 37.26492 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

122.26 NAVD-1988

- 2.15 Area Constant

120.11 US Survey Feet. / 120.11 International Feet. / 36.6096 Meters.

Latest Observation Date: May 31, 2012 Greenwich Mean Time 03:02:14 PM.

Epoch Date - 1338476534

Julian Date - 2456079.12655

Observer: Enrique S. Urbietta

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2183

Set a 3 inch diameter Brass Cap LS 19329-COY-2012 properly stamped, inside a 6 inch PVC pipe 6 inches below Central Canal bank, as witness corner. ( C ¼ falls in canal ) This is 40' Geodetic N00°17'34"E to the Center Quarter Corner for Section 12, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. C 1/2 and 36<sup>th</sup> . ST.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'42.71231" North

Longitude 114°40'33.32651" West

Ellipsoid Height 9.6830 US Survey Feet / 9.683 International Feet / 2.9514 Meters.

North 605,774.6760 US Survey Feet. / 605,775.8876 International Feet.

East 415,042.0390 US Survey Feet. / 415,042.8691 International Feet.

NAVD-1988-Elevation

121.16 US Survey Feet. / 121.16 International Feet. / 36.92964 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

121.16 NAVD-1988

- 2.15 Area Constant

119.01 US Survey Feet. / 119.01 International Feet. / 36.27432 Meters.

Latest Observation Date: May 31, 2012 Greenwich Mean Time 03:48:04 PM.

Epoch Date - 1338479284

Julian Date - 2456079.15838

Observer: Enrique S. Urbieto

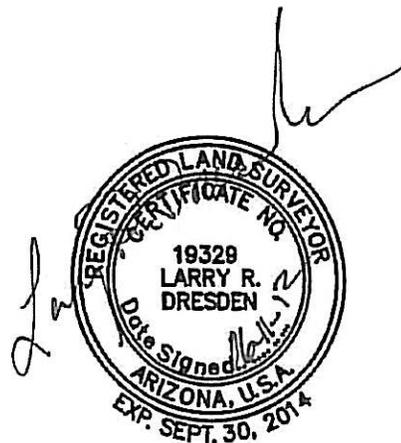
Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2184

Set a 3 inch diameter Brass Cap LS 19329-COY-2012 properly stamped, inside a 6 inch PVC pipe 6 inches below farm field. This is the Center Quarter Corner for Section 18, T9S, R23W, of the Gila And Salt River Base And Meridian.

Located at Ave. B 1/2 and 44<sup>th</sup> . ST.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'50.97730" North

Longitude 114°39'31.02102" West

Ellipsoid Height 3.414 US Survey Feet / 3.414 International Feet / 1.0406 Meters.

North 600,500.0530 US Survey Feet. / 600,501.2540 International Feet.

East 420,323.8030 US Survey Feet. / 420,324.6436 International Feet.

NAVD-1988-Elevation

114.90 US Survey Feet. / 114.90 International Feet. / 35.0216 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

114.90 NAVD-1988

- 2.15 Area Constant

112.75 US Survey Feet. / 112.75 International Feet. / 34.36627 Meters.

Latest Observation Date: May 31, 2012 Greenwich Mean Time 04:42:25 PM.

Epoch Date - 1338482545

Julian Date - 2456079.19612

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2185

Set a 3 inch diameter Brass Cap LS 19329-COY-2012 properly stamped, inside a 6 inch PVC pipe 6 inches below East Drain Canal bank. This is the Center Quarter Corner for Section 24, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. C 1/2 and 52<sup>nd</sup>. Street.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'58.46766" North

Longitude 114°40'32.20950" West

Ellipsoid Height 1.2610 US Survey Feet / 1.2610 International Feet / 0.38436 Meters.

North 595,238.3500 US Survey Feet. / 595,239.5405 International Feet.

East 415,045.7070 US Survey Feet. / 415,046.5371 International Feet.

NAVD-1988-Elevation

112.93 US Survey Feet. / 112.93 International Feet. / 34.42114 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

112.93 NAVD-1988

- 2.15 Area Constant

110.78 US Survey Feet. / 110.78 International Feet. / 33.76582 Meters.

Latest Observation Date: May 31, 2012 Greenwich Mean Time 04:30:37 PM.

Epoch Date - 1338485437

Julian Date - 2456079.22959

Observer: Enrique S. Urbieto

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2186

Found a 3 inch diameter illegible brass cap, inside an 8 inch diameter PVC pipe, with steel lid, 33 inches below asphalt. This is the West Quarter Corner for Section 31, R22W, T8S, of the Gila And Salt River Base And Meridian.

Located at Ave. 4E and 20<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'29.77018" North

Longitude 114°33'51.76553" West

Ellipsoid Height 29.864 US Survey Feet / 29.864 International Feet / 9.10257 Meters.

North 616,313.0130 US Survey Feet. / 616,314.2456 International Feet.

East 449,454.4150 US Survey Feet. / 449,455.3139 International Feet.

NAVD-1988-Elevation

140.79 US Survey Feet. / 140.79 International Feet. / 42.91288 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

140.79 NAVD-1988

- 2.15 Area Constant

138.64 US Survey Feet. / 138.64 International Feet. / 42.25756 Meters.

Latest Observation Date: June 13, 2012 Greenwich Mean Time 02:54:05 PM.

Epoch Date - 1339599245

Julian Date - 2456091.62089

Observer: Enrique S. Urbieto and Louis Romero

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2187

Found a 1/2 inch diameter rebar with plastic cap, LS 22767, 4 inches below ground. This is the Center Quarter Corner of Section 31, R22W, T8S of the Gila And Salt River Base And Meridian.

Located at Ave. 4 1/2E and 20<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'30.00415" North

Longitude 114°33'21.02142" West

Ellipsoid Height 33.578 US Survey Feet / 33.578 International Feet / 10.2346 Meters.

North 616,316.5920 US Survey Feet. / 616,317.8246 International Feet.

East 452,082.0120 US Survey Feet. / 452,082.9162 International Feet.

NAVD-1988-Elevation

144.50 US Survey Feet. / 144.50 International Feet. / 44.0437 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

144.50 NAVD-1988

- 2.15 Area Constant

142.35 US Survey Feet. / 142.35 International Feet. / 43.38837 Meters.

Latest Observation Date: June 13, 2012 Greenwich Mean Time 03:30:17 PM.

Epoch Date - 1339601417

Julian Date - 2456092.14603

Observer: Enrique S. Urbieto and Louis Romero

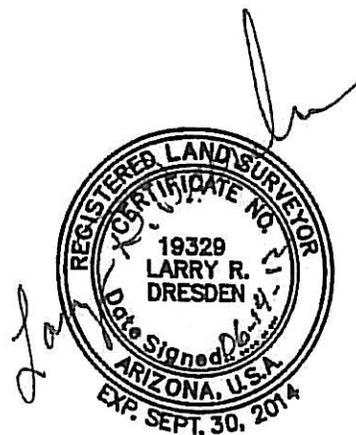
Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2188

Found a 5/8 inch diameter rebar with plastic cap, LS 19329, 4 inches below ground. This is the Center Quarter Corner of Section 32, R23W, T8S of the Gila And Salt River Base And Meridian.

Located at Ave. 3 1/2E and 20<sup>th</sup>. St. <sup>36)</sup> E.S.U. 10-04-2012

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'29.53848" North

Longitude 114°34'22.74322" West

Ellipsoid Height 48.652 US Survey Feet / 48.652 International Feet / 14.82916 Meters.

North 616,310.0290 US Survey Feet. / 616,311.2616 International Feet.

East 446,806.8510 US Survey Feet. / 446,807.7746 International Feet.

NAVD-1988-Elevation

159.58 US Survey Feet. / 159.58 International Feet. / 48.6401 Meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

159.58 NAVD-1988

- 2.15 Area Constant

157.43 US Survey Feet. / 157.43 International Feet. / 47.9848 Meters.

Latest Observation Date: June 13, 2012 Greenwich Mean Time 04:10:06 PM.

Epoch Date - 1339603806

Julian Date - 2456092.17368

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 # 2189

Found a 3 inch diameter Lead Cap Yuma County-1983 properly stamped, 8 inches below asphalt in frame and cover. On May 8, 1983, Yuma County Highway Department by single proportion reset corner that had been destroyed during siphon installation, according to book 39-83, page 25 of the YCHD Section Corner Records. This is the Common Quarter Corner for Sections 28 and 29, T9S, R23W, of the Gila And Salt River Base And Meridian.

Located at Ave. A and 60<sup>th</sup>. St. ( Co. 14 1/2 St. )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'06.79143" North

Longitude 114°37'57.31710" West

Ellipsoid Height 81.285 US Survey Feet / 81.285 International Feet / 24.77572 Meters.

North 589,903.0090 US Survey Feet. / 589,904.1888 International Feet.

East 428,248.3580 US Survey Feet. / 428,249.2145 International Feet.

NAVD-1988-Elevation

192.86 US Survey Feet. / 192.86 International Feet. / 58.78385 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

192.86 NAVD-1988

- 2.15 Area Constant

190.71 US Survey Feet. / 190.71 International Feet. / 58.1286 Meters.

Latest Observation Date: June 15, 2012 Greenwich Mean Time 04:53:09 PM.

Epoch Date - 1339779189

Julian Date - 2456094.20358

Observer: Enrique S. Urbieto

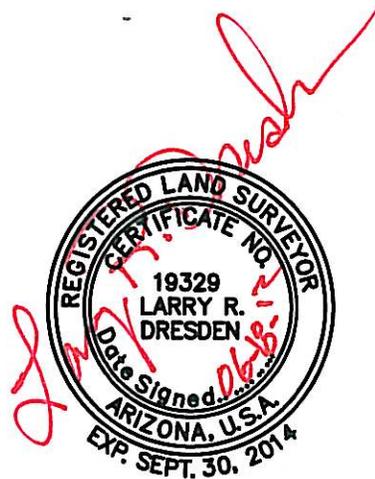
Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2190

Found a 1/2 inch diameter rebar with plastic cap, LS 19329, 1 foot below ground, on North side of small concrete lined irrigation canal. This is the Center Quarter Corner of Section 36, T8S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 9 1/2E and 20<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'31.93930" North

Longitude 114°28'11.42089" West

Ellipsoid Height 43.928 US Survey Feet / 43.928 International Feet / 13.3893 Meters.

North 616,321.8870 US Survey Feet. / 616,323.1196 International Feet.

East 478,541.9180 US Survey Feet. / 478,542.8751 International Feet.

NAVD-1988-Elevation

154.55 US Survey Feet. / 154.55 International Feet. / 47.10694 Meters.

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

Previous Observation Date:            Previous Observer:

NGVD-1929-Elevation

154.55 NAVD-1988

- 2.15 Area Constant

152.40 US Survey Feet. / 152.40 International Feet. / 46.45162 Meters.

Latest Observation Date: June 19, 2012 Greenwich Mean Time 03:03:01 PM.

Epoch Date - 1340310107

Julian Date - 2456098.12709

Observer: John Nye and Louis Romero

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2191

Found prior a PK nail with brass tag LS 19329, flush with asphalt. After asphalt replacement project this was replaced by a 1/2in. rebar with plastic cap, LS 22767, flush with asphalt. This is the Center Quarter Corner of Section 28, T8S, R23W, of the Gila And Salt River Base And Meridian.

Located at 4<sup>th</sup>. Ave. and 12<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'20.86614" North

Longitude 114°37'28.69014" West

Ellipsoid Height 92.571 US Survey Feet / 92.571 International Feet / 28.2157 Meters.

North 621,624.6380 US Survey Feet. / 621,625.8813 International Feet.

East 430,958.3760 US Survey Feet. / 430,959.2379 International Feet.

NAVD-1988-Elevation

203.52 US Survey Feet. / 203.52 International Feet. / 62.03302 Meters.

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

Previous Observation Date: June 21, 2012 Previous Observer: Enrique S. Urbieta.

NGVD-1929-Elevation

203.52 NAVD-1988

- 2.15 Area Constant

201.37 US Survey Feet. / 201.37 International Feet. / 61.3777 Meters.

Latest Observation Date: February 2, 2014 Greenwich Mean Time 04:31:37 PM.

Epoch Date - 13902222697 Julian Date - 2456701.18862

Observer: Enrique S. Urbieta

BENCHMARK # 2192

Set a MAG nail with brass tag LS 19329-COY, inside a concrete lined irrigation canal, by intersecting the opposing Quarter Section Corners. This is the Center Quarter Corner of Section 8, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 5 1/2E and 36<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'45.85457" North

Longitude 114°32'18.48751" West

Ellipsoid Height 102.277 US Survey Feet / 102.277 International Feet / 31.32443 Meters.

North 605,750.6550 US Survey Feet. / 605,751.8665 International Feet.

East 457,347.9920 US Survey Feet. / 457,348.9067 International Feet.

NAVD-1988-Elevation

213.43 US Survey Feet. / 213.43 International Feet. / 65.0536 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

213.43 NAVD-1988

- 2.15 Area Constant

211.28 US Survey Feet. / 211.28 International Feet. / 64.3983 Meters.

Latest Observation Date: June 22, 2012 Greenwich Mean Time 03:55:44 PM.

Epoch Date - 1340380544

Julian Date - 2456101.1637

Observer: Enrique S. Urbieto, Louis Romero and John Nye.

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2193

Found a 1/2 inch rebar with plastic cap LS 22767, flush with asphalt. This is the Center Quarter Corner of Section 17, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 5 1/2E and 44<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'53.48106" North

Longitude 114°32'17.88691" West

Ellipsoid Height 99.184 US Survey Feet / 99.184 International Feet / 30.23135 Meters.

North 600,457.2150 US Survey Feet. / 600,458.4159 International Feet.

East 457,360.0390 US Survey Feet. / 457,360.9537 International Feet.

NAVD-1988-Elevation

210.46 US Survey Feet. / 210.46 International Feet. / 64.14834 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

210.46 NAVD-1988

- 2.15 Area Constant

208.31 US Survey Feet. / 208.31 International Feet. / 63.53874 Meters.

Latest Observation Date: June 22, 2012 Greenwich Mean Time 04:54:52 PM.

Epoch Date - 1340384092

Julian Date - 2456101.20477

Observer: Enrique S. Urbietta, Louis Romero and John Nye.

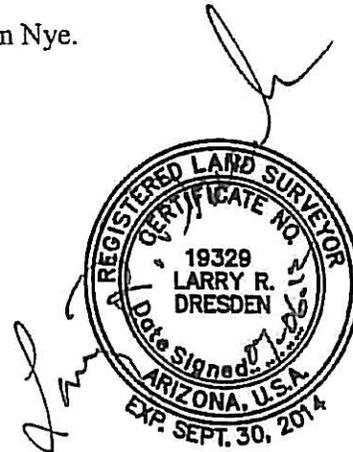
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BENCHMARK # 2194

Found a 1 inch diameter iron pipe 1 foot below ground. This is the Center Quarter Corner of Section 20, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 5 1/2E and 52<sup>nd</sup>. St. ( Co. 13 1/2 St. )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'01.17267" North

Longitude 114°32'17.09867" West

Ellipsoid Height 96.936 US Survey Feet / 96.936 International Feet / 29.5462 Meters.

North 595,170.2480 US Survey Feet. / 595,171.4383 International Feet.

East 457,388.2130 US Survey Feet. / 457,389.1278 International Feet.

NAVD-1988-Elevation

208.33 US Survey Feet. / 208.33 International Feet. / 63.49911 Meters.

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

Previous Observation Date:                      Previous Observer:

NGVD-1929-Elevation

208.33 NAVD-1988

- 2.15 Area Constant

206.18 US Survey Feet. / 206.18 International Feet. / 62.8438 Meters.

Latest Observation Date: June 22, 2012 Greenwich Mean Time 05:53:28 PM.

Epoch Date - 1340387608

Julian Date - 2456101.24546

Observer: Enrique S. Urbietta, Louis Romero and John Nye.

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 # 2195

Set a 3 inch diameter Brass Cap, LS 19329-COY-2012 properly stamped, 5 inches below asphalt, in frame and cover. This is the Common Quarter Corner for Sections 19 and 30, T9S, R23W, of the Gila And Salt River Base And Meridian.

Located at Ave. B1/2 and 56<sup>th</sup>. St. ( Co. 14<sup>th</sup>. St. )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'32.32894" North

Longitude 114°39'30.73791" West

Ellipsoid Height 2.037 US Survey Feet / 2.037 International Feet / 0.62088 Meters.

North 592,551.2740 US Survey Feet. / 592,552.4591 International Feet.

East 420,280.0300 US Survey Feet. / 420,280.8706 International Feet.

NAVD-1988-Elevation

113.67 US Survey Feet. / 113.67 International Feet. / 34.6467 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

113.67 NAVD-1988

-2.15 Area Constant

111.52 US Survey Feet. / 111.52 International Feet. / 33.9914 Meters.

Latest Observation Date: June 27, 2012 Greenwich Mean Time 03:53:23 PM.

Epoch Date - 1340812403

Julian Date - 24656106.16207

Observer: Enrique S. Urbieto

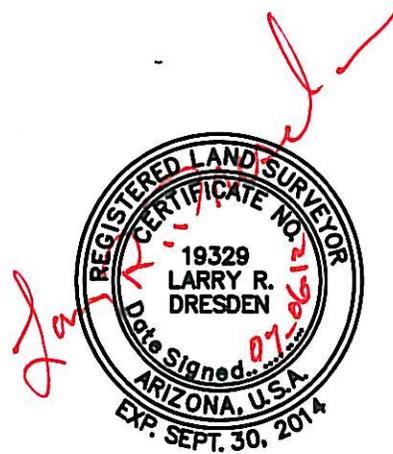
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BENCHMARK # 2196

Found a ½ inch rebar with plastic cap LS 6022, 5 inches below dirt road. This is the Center Quarter Corner of Section 19, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 4 1/2E and 52<sup>nd</sup> . St. ( Co. 13 ½ St. )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'00.68069" North

Longitude 114°33'18.76283" West

Ellipsoid Height 96.389 US Survey Feet / 96.389 International Feet / 29.3795 Meters.

North 595,160.0680 US Survey Feet. / 595,161.2583 International Feet.

East 452,114.5700 US Survey Feet. / 452,115.4742 International Feet.

NAVD-1988-Elevation

207.78 US Survey Feet. / 207.78 International Feet. / 63.3315 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

207.78 NAVD-1988

- 2.15 Area Constant

205.63 US Survey Feet. / 205.63 International Feet. / 62.67615 Meters.

Latest Observation Date: June 25, 2012 Greenwich Mean Time 05:08:48 PM.

Epoch Date - 1340644128

Julian Date - 2456104.21444

Observer: Enrique S. Urbietta, Louis Romero and John Nye.

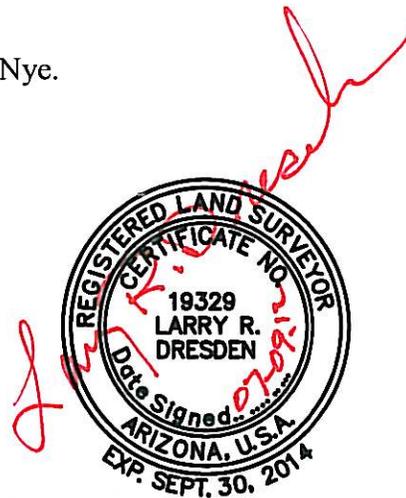
Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2197

Found a 1/2 inch rebar and set a plastic cap LS 19329, inside a concrete lined irrigation canal. This is the Center Quarter Corner of Section 18, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 4 1/2E and 44<sup>th</sup> . St. ( Co. 12 1/2 St. )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'52.97793" North **CORRECTED**

Longitude 114°33'19.29188" West

Ellipsoid Height 98.387 US Survey Feet / 98.387 International Feet / 29.98842 Meters.

North 600,445.7600 US Survey Feet. / 600,446.9609 International Feet.

East 452,109.4010 US Survey Feet. / 452,110.3052 International Feet.

NAVD-1988-Elevation

209.66 US Survey Feet. / 209.66 International Feet. / 63.90462 Meters.

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

Previous Observation Date:                      Previous Observer:

NGVD-1929-Elevation

209.66 NAVD-1988

- 2.15 Area Constant

207.51 US Survey Feet. / 207.51 International Feet. / 63.2493 Meters.

Latest Observation Date: June 25, 2012 Greenwich Mean Time 04:14:45 PM.

Epoch Date - 1340640885

Julian Date - 2456104.17691

Observer: Enrique S. Urbieto, Louis Romero and John Nye.

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2198

Found a 2 inch diameter iron pipe 3 inches above ground. This is the Center Quarter Corner of Section 10, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 7 1/2E and 36<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'46.74305" North

Longitude 114°30'14.70250" West

Ellipsoid Height 104.215 US Survey Feet / 104.215 International Feet / 31.7648 Meters.

North 605,763.5640 US Survey Feet. / 605,764.7755 International Feet.

East 467,930.7640 US Survey Feet. / 467,931.6999 International Feet.

NAVD-1988-Elevation

215.29 US Survey Feet. / 215.29 International Feet. / 65.62066 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

215.29 NAVD-1988

- 2.15 Area Constant

213.14 US Survey Feet. / 213.14 International Feet. / 64.96533 Meters.

Latest Observation Date: June 25, 2012 Greenwich Mean Time 02:19:27 PM.

Epoch Date - 134063397

Julian Date - 2456104.09684

Observer: Enrique S. Urbieto, Louis Romero and John Nye.

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

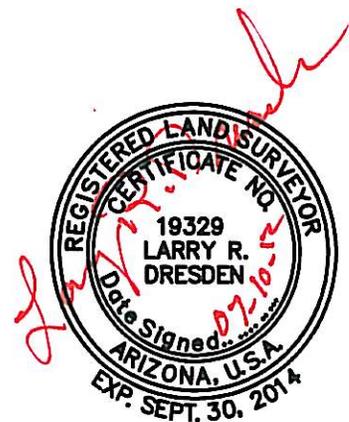
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Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2199

Found a 3 inch diameter Aluminum Cap, ADOT-RLS 28743-2009 properly stamped, 6 inches below asphalt in frame and cover. This is the South Quarter Corner of Section 9, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 6 1/2E ( HWY-195 ) and 40<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'20.13228" North

Longitude 114°31'16.47344" West

Ellipsoid Height 99.836 US Survey Feet / 99.836 International Feet / 30.4301 Meters.

North 603,112.1230 US Survey Feet. / 603,113.3292 International Feet.

East 462,630.5720 US Survey Feet. / 462,631.4973 International Feet.

NAVD-1988-Elevation

211.03 US Survey Feet. / 211.03 International Feet. / 64.32220 Meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

211.03 NAVD-1988

- 2.15 Area Constant

208.88 US Survey Feet. / 208.88 International Feet. / 63.6668 Meters.

Latest Observation Date: June 25, 2012 Greenwich Mean Time 03:18:40 PM.

Epoch Date - 1340637520

Julian Date - 2456104.13796

Observer: Enrique S. Urbieta, Louis Romero and John Nye.

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 # 2200

Found a 3 " diameter Brass cap LS 38886 (2007) with punch mark, encased in concrete. Being the common ¼ Corner of Sections, 10 and 11, R22W, T9S, of the G. & S.R.B. & M. Located on Ave. 8E. and 36<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'47.07969" North

Longitude 114°29'43.71116" West

Ellipsoid Height : 104.745 US survey feet / 104.745 International feet / 31.92634 meters.

North 605,778.836 US survey feet / 605,780.0476 International feet.

East 470,580.446 US survey feet / 470,581.3872 International feet.

NAVD-1988-Elevation

215.82 US survey feet. / 215.82 International feet. / 65.78207 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

215.82 NAVD-1988

-2.15 Area Constant

213.67 US survey feet. / 65.12675 meters.

Latest Observation Date: February ,06, 2008 Greenwich Mean Time 8:17:13 PM.

Epoch Date- 1202285833

Julian Date- 2454503.34529

Observer: Enrique S. Urbietta

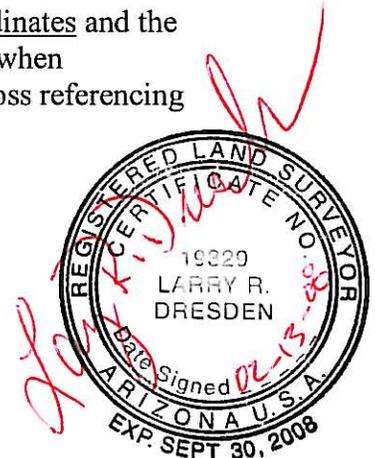
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration 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 # 2201

Found prior a 3in. dia. brass cap LS 16592 (no date) with punch mark, encased in concrete, on ground level. Found a 3in. dia. brass cap LS 22767-DRA-2009 properly stamped, encased in concrete, flush with asphalt. This is the Common Section Corner of Sections 10, 11 14 and 15, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 8E. and 40<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'20.90699" North

Longitude 114°29'43.41343" West

Ellipsoid Height 100.223 US Survey Feet / 100.223 International Feet / 30.5481 Meters.

North 603,133.5960 US Survey Feet. / 603,134.8023 International Feet.

East 470,587.2590 US Survey Feet. / 470,588.2002 International Feet.

NAVD-1988-Elevation

211.33 US Survey Feet. / 211.33 International Feet. / 64.41352 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. Urbietta

NGVD-1929-Elevation

211.33 NAVD-1988

- 2.15 Area Constant

209.18 US Survey Feet. / 209.18 International Feet. / 63.7582 Meters.

Latest Observation Date: April 16, 2013 Greenwich Mean Time 03:20:04 PM.

Epoch Date - 1366125604

Julian Date - 2456399.13894

Observer: Enrique S. Urbietta

Under the Direct Supervision of : Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2202

Found a 2 ½" diameter Bureau Of Reclamation (1945) Brass cap with punch mark. Encased in concrete, 8" below ground. Being the common ¼ Corner of Section, 14 and 15, R22W,T9S, of the Gila And Salt River Base And Meridian.  
Located on Ave. 8E.and Co. 12 ½ St. ( 44<sup>th</sup> St. City )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'54.53882" North

Longitude 114°29'43.06791" West

Ellipsoid Height : 101.658 US survey feet / 101.658 International feet / 30.98542 meters.

North 600,468.438 US survey feet / 600,469.6389 International feet.

East 470,598.136 US survey feet / 470,599.0772 International feet.

NAVD-1988-Elevation

212.85 US survey feet. / 212.85 International feet. / 64.87682 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

212.85 NAVD-1988

- 2.15 Area Constant

210.70 US survey feet. / 64.2215 meters.

Latest Observation Date: February ,08, 2008 Greenwich Mean Time 4:13:13 PM.

Epoch Date- 1202487193

Julian Date- 2454505.17584

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 # 2203

Found a 3" diameter, Brass cap, LS 19329 (C.O.Y. 2000) with punch mark, 8" below ground. Being the common Corner of Sections, 14,15, 22 and 23, R22W, T9S, of the G & S.R.B.& M. Located on Ave. 8E.and Co. 13 St. ( 48<sup>th</sup> St. City ) *Set by 4way proportion.*

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'28.16619" North

Longitude 114°29'42.72392" West

Ellipsoid Height : 109.529 US survey feet / 109.529 International feet / 33.38451 meters.

North 597,802.902 US survey feet / 597,804.0976 International feet.

East 470,608.826 US survey feet / 470,609.7672 International feet.

NAVD-1988-Elevation

220.77 US survey feet. / 220.77 International feet. / 67.29084 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

220.77 NAVD-1988

-2.15 Area Constant

218.62 US survey feet. / 66.6355 meters.

Latest Observation Date: February ,07, 2008 Greenwich Mean Time 7:50:16 PM.

Epoch Date- 1202413816

Julian Date- 2454504.32657

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 # 2204

Found a 3 " diameter Brass cap LS 19329 ( COY-2000 ) with punch mark, encased in concrete, 3" below ground. Being the common  $\frac{1}{4}$  Corner of Sections, 22 and 23, R22W, T9S, of the Gila And Salt River Base And Meridian. *Set by Single proportion,*  
Located on Ave. 8E.and Co. 13  $\frac{1}{2}$  St. ( 52<sup>nd</sup>. St. City )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'02.10829" North

Longitude 114°29'42.19891" West

Ellipsoid Height : 129.068 US survey feet / 129.068 International feet / 39.34001 meters.

North 595,169.068 US survey feet / 595,170.2583 International feet.

East 470,635.225 US survey feet / 470,636.1663 International feet.

NAVD-1988-Elevation

240.36 US survey feet. / 240.36 International feet. / 73.26188 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

240.36 NAVD-1988

- 2.15 Area Constant

238.21 US survey feet. / 72.60656 meters.

Latest Observation Date: February ,07, 2008 Greenwich Mean Time 8:56:10 PM.

Epoch Date- 1202417770

Julian Date- 2454504.37234

Observer: Enrique S. Urbieto

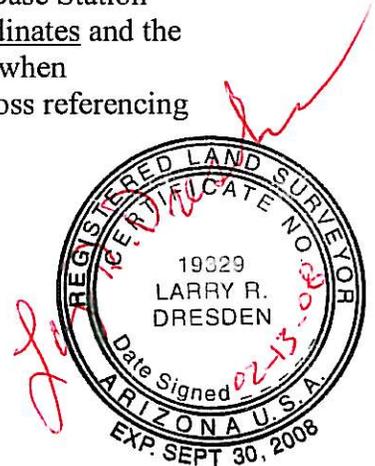
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration 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

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BENCHMARK # 2205

Found a 3" diameter, Brass cap, LS 19329 (C.O.Y. 2000) with punch mark, 5" below ground. Being the common Corner of Sections, 22,23, 26 and 27, R22W, T9S, of the G & S.R.B.& M. Located on Ave. 8E.and Co. 14<sup>th</sup> St. ( 56<sup>th</sup> St. City ) *Replaced 4x4 redwood post.*

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'36.04446" North

Longitude 114°29'41.67612" West

Ellipsoid Height : 145.029 US survey feet / 145.029 International feet / 44.20493 meters.

North 592,534.640 US survey feet / 592,535.8251 International feet.

East 470,661.436 US survey feet / 470,662.3773 International feet.

NAVD-1988-Elevation

256.37 US survey feet. / 256.37 International feet. / 78.14174 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

256.37 NAVD-1988

-2.15 Area Constant

254.22 US survey feet. / 77.48642 meters.

Latest Observation Date: February ,08, 2008 Greenwich Mean Time 7:12:51 PM.

Epoch Date- 1202497971

Julian Date- 2454505.30059

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 # 2206

Found a 3 " diameter, Brass cap, LS 19329 (C.O.Y. 2000) with punch mark. Encased in concrete, 8" below ground. Being the common ¼ Corner of Sections,15 and 22, R22W, T9S, of the G & S.R.B.& M.

Located on Ave. 7 ½ E. and Co. 13<sup>th</sup> St. ( 48<sup>th</sup> St. City )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'28.03781" North

Longitude 114°30'13.73281" West

Ellipsoid Height : 96.629 US survey feet / 96.629 International feet / 29.45258 meters.

North 597,808.660 US survey feet / 597,809.8556 International feet.

East 467,957.187 US survey feet / 470,958.1229 International feet.

NAVD-1988-Elevation

207.91 US survey feet. / 207.91 International feet. / 63.3711 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

207.91 NAVD-1988

- 2.15 Area Constant

205.76 US survey feet. / 62.71577 meters.

Latest Observation Date: February ,08, 2008 Greenwich Mean Time 5:00:13 PM.

Epoch Date- 1202490013

Julian Date- 2454505.20848

Observer: Enrique S. Urbieta

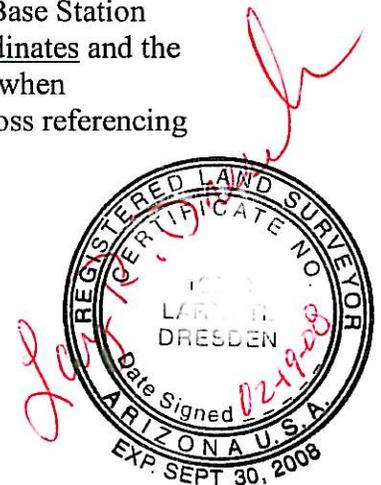
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration 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).

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BENCHMARK # 2207

Found a 3 " diameter, Brass cap, LS 19329 (C.O.Y. 2000) with punch mark. Encased in concrete, on ground level. Being the common ¼ Corner of Sections,14 and 23, R22W, T9S, of the G & S.R.B.& M.

Located on Ave. 8 ½ E. and Co. 13<sup>th</sup> St. ( 48<sup>th</sup> St. City )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'28.26833" North

Longitude 114°29'11.72759" West

Ellipsoid Height : 136.870 US survey feet / 136.870 International feet / 41.71806 meters.

North 597,794.715 US survey feet / 597,795.9106 International feet.

East 473,259.374 US survey feet / 473,260.3205 International feet.

NAVD-1988-Elevation

248.07 US survey feet. / 248.07 International feet. / 75.6119meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

248.07 NAVD-1988

-2.15 Area Constant

245.92 US survey feet. / 74.9566 meters.

Latest Observation Date: February ,08, 2008 Greenwich Mean Time 5:00:13 PM.

Epoch Date- 1202492510

Julian Date- 2454505.23738

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

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BENCHMARK # 2208

Found a 3" diameter, Brass cap, LS 19329 (C.O.Y. 2000) with punch mark. Encased in concrete, 10" above ground. Being the common ¼ Corner of Sections, 23 and 26, R22W, T9S, of the G & S.R.B.& M.

Located on Ave. 8 ½ E. and Co. 14<sup>th</sup> St. ( 56<sup>th</sup> St. City ) *Replaced 4x4 redwood.*

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'35.69836" North

Longitude 114°29'10.75425" West

Ellipsoid Height : 171.601 US survey feet / 171.601 International feet / 52.3041 meters.

North 592,481.198 US survey feet / 592,482.383 International feet.

East 473,305.729 US survey feet / 473,306.6756 International feet.

NAVD-1988-Elevation

282.90 US survey feet. / 282.90 International feet. / 86.2281 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

282.90 NAVD-1988

-2.15 Area Constant

280.75 US survey feet. / 85.57278 meters.

Latest Observation Date: February ,08, 2008 Greenwich Mean Time 7:54:47 PM.

Epoch Date- 1202500487

Julian Date- 2454505.32971

Observer: Enrique S. Urbieta

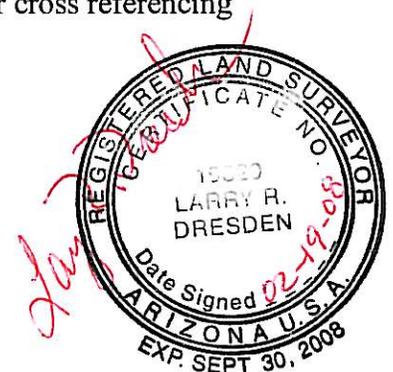
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration 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).

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Larry R. Dresden, Registered Land Surveyor

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BENCHMARK # 2209

Found a 3" diameter, Brass cap, LS 19329 (C.O.Y. 2000) with punch mark, 3" above ground. Being the common Corner of Sections, 23,24, 25 and 26, R22W, T9S, of the G & S.R.B.& M. Located on Ave. 9E. and Co. 14<sup>th</sup> St. ( 56<sup>th</sup> St. City ) *Replaced 4x4 redwood.*

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'35.34837" North

Longitude 114°28'39.83477" West

Ellipsoid Height : 189.037 US survey feet / 189.037 International feet / 57.6186 meters.

North 592,427.580 US survey feet / 592,428.7649 International feet.

East 475,949.821 US survey feet / 475,950.7729 International feet.

NAVD-1988-Elevation

300.29 US survey feet. / 300.29 International feet. / 91.5286 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

300.29 NAVD-1988

-2.15 Area Constant

298.14 US survey feet. / 90.8733 meters.

Latest Observation Date: February ,08, 2008 Greenwich Mean Time 8:36:12 PM.

Epoch Date- 1202502972

Julian Date- 2454505.35847

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).

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BENCHMARK # 2210

Found a 2 ½ " diameter General Land Office Survey (1920)(2006) Brass cap with punch mark, Encased in concrete, 4" above ground. Being the common ¼ Corner of Section, 19 and 30, R21W, T9S, of the Gila And Salt River Base And Meridian. Located on Ave. 10 ½ E. and Co. 14 St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'36.56804" North

Longitude 114°27'09.58522" West

Ellipsoid Height : 234.473 US survey feet / 234.473 International feet / 71.46752 meters.

North 592,498.806 US survey feet / 592,499.991 International feet.

East 483,669.096 US survey feet / 483,670.0633 International feet.

NAVD-1988-Elevation

345.54 US survey feet. / 345.54 International feet. / 105.3208 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

345.54 NAVD-1988

- 2.15 Area Constant

343.39 US survey feet. / 104.6655 meters.

Latest Observation Date: February ,15, 2008 Greenwich Mean Time 5:21:39 PM.

Epoch Date- 1203096099

Julian Date- 2454512.22337

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 # 2211

Found a 3" diameter Brass cap LS 19329 (COY) with punch mark, encased in concrete, 10" above ground. (Didn't find 4x4 Redwood in 2000) Being the common Corner of Sections, 19 and 30, R21W, T9S and Sections, 24 and 25, R22W, T9S, of the G. & S. R. B. & M. Located on Ave. 10E. and Co. 14<sup>th</sup> St. (56<sup>th</sup> St. City) *Re-Set by 4 way proportion.*

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'36.62892" North

Longitude 114°27'37.99911" West

Ellipsoid Height : 245.858 US survey feet / 245.858 International feet / 74.93767 meters.

North 592,521.146 US survey feet / 592,522.331 International feet.

East 481,239.089 US survey feet / 481,240.0515 International feet.

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NAVD-1988-Elevation

356.99 US survey feet. / 356.99 International feet. / 108.8108 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

356.99 NAVD-1988

-2.15 Area Constant

354.84 US survey feet. / 108.15546 meters.

Latest Observation Date: February ,05, 2008 Greenwich Mean Time 7:55:25 PM.

Epoch Date- 1202241325

Julian Date- 2454502.33015

Observer: Enrique S. Urbietta and Jessy Gonzalez

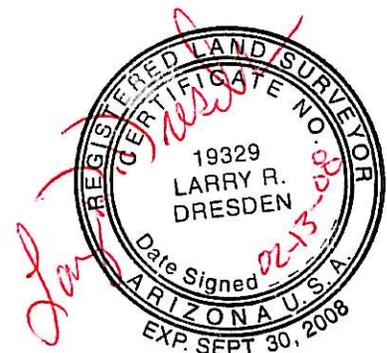
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration 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 # 2212

Found a 3 " diameter Brass cap LS 19329 ( COY ) with punch mark, encased in concrete, 8" above ground. ( Found a 4x4 Redwood in 2000 ) Being the common ¼ Corner of Section, 19, R21W, T9S and Section, 24, R22W, T9S, of the Gila And Salt River Base And Meridian. Located on Ave. 10E.and Co. 13 ½ St. ( 52<sup>nd</sup>. St. City )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'02.80468" North

Longitude 114°27'38.21296" West

Ellipsoid Height : 208.114 US survey feet / 208.114 International feet / 63.43328 meters.

North 595,166.704 US survey feet / 595,167.8943 International feet.

East 481,238.521 US survey feet / 481,239.4835 International feet.

---

NAVD-1988-Elevation

319.20 US survey feet. / 319.20 International feet. / 97.29236 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

319.20 NAVD-1988

- 2.15 Area Constant

317.05 US survey feet. / 96.63705 meters.

Latest Observation Date: February ,05, 2008 Greenwich Mean Time 7:13:02 PM.

Epoch Date- 1202238782

Julian Date- 2454502.30072

Observer: Enrique S. Urbietta and Jessy Gonzalez

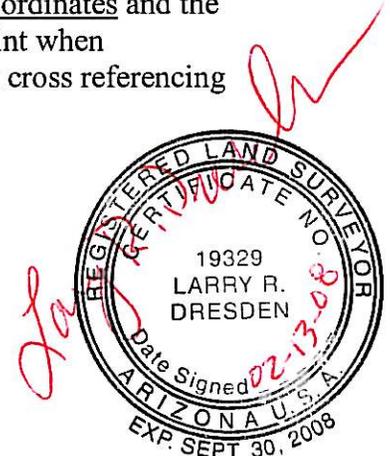
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration 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 :

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BENCHMARK # 2213

Found a 2 ½" diameter General Land Office Survey (1920) Brass cap with punch mark in PVC pipe, with cover, 15" below ground. Being the common Corner of Sections, 13 and 24, R22W, T9S and Sections, 18 and 19, R21W, T9S, of the Gila And Salt River Base And Meridian. Located on Ave. 10E. and Co. 13 St. ( 48<sup>th</sup> St. City )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'28.98008" North

Longitude 114°27'38.42861" West

Ellipsoid Height : 204.043 US survey feet / 204.043 International feet / 62.19243 meters.

North 597,812.231 US survey feet / 597,813.4266 International feet.

East 481,237.801 US survey feet / 481,238.7635 International feet.

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NAVD-1988-Elevation

315.08 US survey feet. / 315.08 International feet. / 96.03658 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

315.08 NAVD-1988

-2.15 Area Constant

312.93 US survey feet. / 95.38126 meters.

Latest Observation Date: February ,05, 2008 Greenwich Mean Time 5:55:24 PM.

Epoch Date- 1202234124

Julian Date- 2454502.24681

Observer: Enrique S. Urbietta and 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 # 2214

Found a 2 ½ " diameter General Land Office Survey (1920) Brass cap with punch mark in PVC pipe, with cover, 14" below ground. Being the common ¼ Corner of Section, 13, R22W, T9S and Section, 18, R21W, T9S, of the Gila And Salt River Base And Meridian.  
Located on Ave. 10E.and Co. 12 ½ St. ( 44<sup>th</sup> St. City )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'55.13381" North

Longitude 114°27'38.71554" West

Ellipsoid Height : 169.143 US survey feet / 169.143 International feet / 51.5549 meters.

North 600,455.610 US survey feet / 600,456.8109 International feet.

East 481,230.974 US survey feet / 481,231.9365 International feet.

---

NAVD-1988-Elevation

280.13 US survey feet. / 280.13 International feet. / 85.3838 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

280.13 NAVD-1988

-2.15 Area Constant

277.98 US survey feet. / 84.72848 meters.

Latest Observation Date: February ,05, 2008 Greenwich Mean Time 5:14:37 PM.

Epoch Date- 1202231677

Julian Date- 2454502.1848

Observer: Enrique S. Urbietta and Jessy Gonzalez

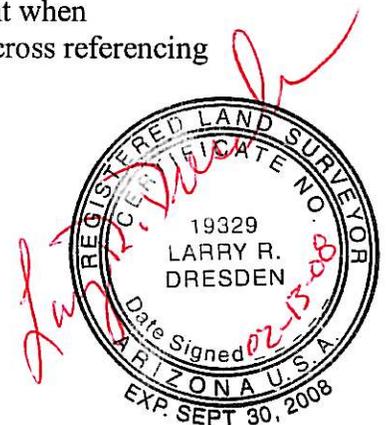
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration 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 # 2215

Found prior a 3 inch diameter brass cap, GLO-1920 properly stamped, 18 inches below. Set a 3 inch diameter brass cap LS 19329-COY-2012 properly stamped, 11 inches below ground. This is the common Corner of Sections 7 and 18, T9S, R21W and Sections 12 and 13, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 10E and 40<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'21.29078" North

Longitude 114°27'39.00082" West

Ellipsoid Height 152.866 US Survey Feet / 152.866 International Feet / 46.593651 Meters.

North 603,099.4420 US Survey Feet. / 603,100.6482 International Feet.

East 481,224.0810 US Survey Feet. / 481,225.0435 International Feet.

NAVD-1988-Elevation

263.75 US Survey Feet. / 263.75 International Feet. / 80.3912 Meters.

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

Previous Observation Date: February 05, 2008

Previous Observer: Enrique S. Urbieto and Jesse Gonzalez

NGVD-1929-Elevation

263.75 NAVD-1988

- 2.15 Area Constant

261.60 US Survey Feet. / 261.60 International Feet. / 79.73585 Meters.

Latest Observation Date: October 03, 2012 Greenwich Mean Time 03:55:54 PM.

Epoch Date - 1349279754

Julian Date - 2456204.16382

Observer: Enrique S. Urbieto, 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

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BENCHMARK # 2216

Found a 2 ½ " diameter General Land Office Survey (1920) Brass cap with punch mark in survey hand hole, 13" below asphalt. Being the E ¼ Corner of Section 12, R22W, T9S, of the Gila And Salt River Base And Meridian.  
Located in the intersection of 36<sup>th</sup> St. And Ave. 10E.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'47.44517" North

Longitude 114°27'39.29356" West

Ellipsoid Height : 148.603 US survey feet / 148.603 International feet / 45.2943 meters.

North 605,742.775 US survey feet / 605,743.9865 International feet.

East 481,216.977 US survey feet / 481,217.9394 International feet.

NAVD-1988-Elevation

259.48 US survey feet. / 259.48 International feet. / 79.08967 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

259.48 NAVD-1988

-2.15 Area Constant

257.33 US survey feet. / 78.43434 meters.

Latest Observation Date: February ,05, 2008 Greenwich Mean Time 3:53:04 PM.

Epoch Date- 1202226784

Julian Date- 2454502.16185

Observer: Enrique S. Urbietta and Jessy Gonzalez

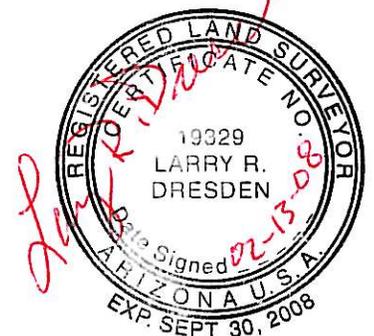
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration 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 # 2217

Found a 3" diameter, Brass cap, LS 19329 (C.O.Y. 2000) with punch mark. Encased in concrete, on ground level. Being the common  $\frac{1}{4}$  Corner of Sections, 22 and 27, R22W, T9S, of the G & S.R.B.& M. *Replaced 4x4 redwood post,*  
Located on Ave. 7  $\frac{1}{2}$  E. and Co. 14<sup>th</sup> St. ( 56<sup>th</sup> St. City )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'35.80832" North

Longitude 114°30'12.70752" West

Ellipsoid Height : 131.375 US survey feet / 131.375 International feet / 40.0432 meters.

North 592,529.517 US survey feet / 592,530.7021 International feet.

East 468,007.367 US survey feet / 468,008.303 International feet.

NAVD-1988-Elevation

242.75 US survey feet. / 242.75 International feet. / 73.99036 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

242.75 NAVD-1988

-2.15 Area Constant

240.60 US survey feet. / 73.335 meters.

Latest Observation Date: February ,08, 2008 Greenwich Mean Time 6:29:50 PM.

Epoch Date- 1202495390

Julian Date- 2454505.27072

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).

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BENCHMARK # 2218

Found a 3" diameter. Brass cap with punchmark in hand hole, 6" below asphalt. This being the Section Corner common to Sections 21, 22, 27 and 28, Township 9 South, Range 22 West, of the Gila And Salt River Base And Meridian.

Located at the intersection of Ave 7E and County 14<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'35.63320" North

Longitude 114°30'43.69681" West

Ellipsoid Height 99.233 US survey feet / 99.23319 International feet / 30.24634 meters.

North 592,530.749 US survey feet. / 592,531.9341 International feet.

East 465,356.942 US survey feet / 460,068.73331 International feet.

NAVD-1988-Elevation

210.641 US survey feet. / 210.6414 International feet. / 64.2036 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

210.641 - 2.15 = 208.491 US survey feet. / 208.4914 International feet / 63.5483 meters.

Latest Observation Date: June, 05, 2007 Greenwich Mean Time 05:38:51 PM.

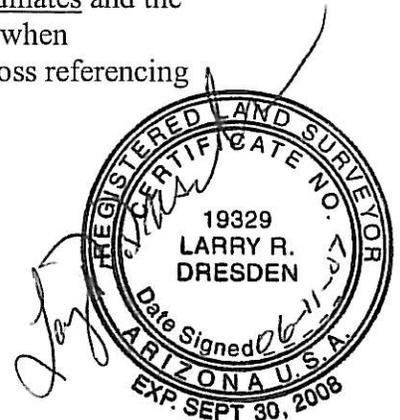
Epoch Date-1181570831

Julian Date- 2454256.73531

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).

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Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2219

Found prior a 4"x4" redwood post, 12 inches above ground with a 6d nail and 1/4, S16 scribed on the North side of post, replaced 6d nail with 60d nail and brass tag LS19329-COY . Found a 3in. dia. aluminum cap ADOT-LS 28743-2009 properly stamped, encased in concrete on ground level. This is the Common Quarter Corner of Sections 16 and 21, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 6 1/2E. ( US 195 ) and <sup>48<sup>th</sup> E.S.U.</sup> ~~52<sup>nd</sup>~~ St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'27.65756" North

Longitude 114°31'15.76367" West

Ellipsoid Height 97.601 US Survey Feet / 97.601 International Feet / 29.74885 Meters.

North 597,808.4090 US Survey Feet. / 597,809.6046 International Feet.

East 462,652.7490 US Survey Feet. / 462,653.6743 International Feet.

NAVD-1988-Elevation

208.92 US Survey Feet. / 208.92-International Feet. / 63.67894 Meters.

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

Previous Observation Date: January 17, 2006 Previous Observer: Martin Sandoval and John Nye

NGVD-1929-Elevation

208.92 NAVD-1988

- 2.15 Area Constant

206.77 US Survey Feet. / 206.77 International Feet. / 63.02362 Meters.

Latest Observation Date: May 23, 2013 Greenwich Mean Time 07:29:49 PM.

Epoch Date - 1369337389

Julian Date - 2456436.31237

Observer: Enrique S. Urbieto

Under the Direct Supervision of : Larry R. Dresden

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BENCHMARK # 2220

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 20, 21, 28 and 29, Township 9 South, Range 22 West, of the Gila And Salt River Base And Meridian.  
Located at the intersection of Ave 6E and County 14<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'35.28223" North

Longitude 114°31'45.53829" West

Ellipsoid Height 98.533 US survey feet / 98.53319 International feet / 30.0329 meters.

North 592,533.701 US survey feet. / 592,534.8861 International feet.

East 460,067.813 US survey feet / 460,068.73331 International feet.

NAVD-1988-Elevation

209.967 US survey feet. / 209.9674 International feet. / 63.998 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

209.967 - 2.15 = 207.817 US survey feet. / 207.8174 International feet / 63.3428 meters.

Latest Observation Date: June, 05, 2007 Greenwich Mean Time 04:36:59 PM.

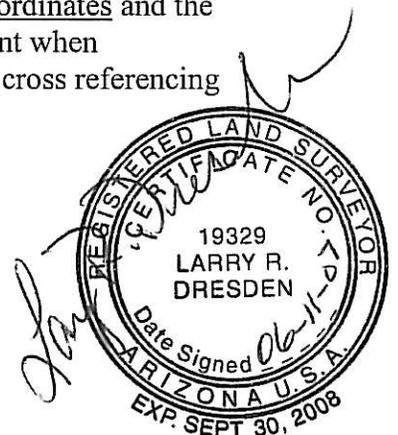
Epoch Date-1181061419

Julian Date- 2454256.69235

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).

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BENCHMARK # 2221

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, 20 and 29, R22W, T9S. G&SRB&M.

Located on Ave.5 ½ E. and Co.14<sup>th</sup>. (56<sup>th</sup> St. City)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'35.13472” North

Longitude 114°32'16.60624” West

Ellipsoid Height : 98.895 US survey feet / 98.895 International feet / 30.14325 meters.

North 592,538.420 US survey feet / 592,539.6051 International feet.

East 457,410.679 US survey feet / 457,411.5938 International feet.

NAVD-1988-Elevation

210.33 US survey feet. / 210.33 International feet. / 64.10872 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

210.33 NAVD-1988

-2.15 Area Constant

208.18 US survey feet. / 63.4534 meters.

Latest Observation Date: July, 02, 2008 Greenwich Mean Time 3:21:54 PM.

Epoch Date- 1215012114

Julian Date- 2454650.14021

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).

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BENCHMARK # 2222

Found: A ½" diameter rebar with plastic cap LS 10848, in hand hole, 4" below asphalt encased in concrete. Being the Common Corner for Sections, 19,20,29 and 30, R22W, T9S. G&SRB&M.

Located on Ave.5E. and Co.14<sup>th</sup>. (56<sup>th</sup> St. City)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'34.98456" North

Longitude 114°32'47.68854" West

Ellipsoid Height : 95.584 US survey feet / 95.584 International feet / 29.13406 meters.

North 592,543.094 US survey feet / 592,544.2791 International feet.

East 454,752.314 US survey feet / 454,753.2235 International feet.

NAVD-1988-Elevation

207.02 US survey feet. / 207.02 International feet. / 63.09983 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

207.02 NAVD-1988

- 2.15 Area Constant

204.87 US survey feet. / 62.4445 meters.

Latest Observation Date: June, 26, 2008 Greenwich Mean Time 3:30:51 PM.

Epoch Date- 1214494251

Julian Date- 2454644.14642

Observer: Enrique S. Urbieto and Jesse Gonzalez

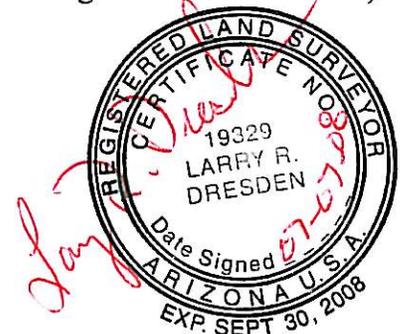
Since this particular geodetic survey control point is situated outside the Trimble Factory Designed Range of 10 Kilometers, (6.21 miles), for Real Time Kinematic, (RTK), Surveying as measured from the Trimble 4800 GPS Radio Base Station transmitting from COYA, (located atop the C.O.Y. Public Works Administration 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

Arizona License #19329

California License # 5643



BENCHMARK # 2223

Found: 2 ½ ” diameter BLM-1947 brass cap, with punch mark, in hand hole, 12” below asphalt encased in concrete. Being the Common ¼ Corner for Sections, 19 and 30, R22W, T9S. G&SRB&M.

Located on Ave.4 ½ E. and Co.14<sup>th</sup>. (56<sup>th</sup> St. City)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'34.60375" North

Longitude 114°33'18.41760" West

Ellipsoid Height : 98.846 US survey feet / 98.846 International feet / 30.12833 meters.

North 592,524.445 US survey feet / 592,525.6301 International feet.

East 452,123.983 US survey feet / 452,124.8872 International feet.

NAVD-1988-Elevation

210.27 US survey feet. / 210.27 International feet. / 64.09043 meters.

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

Previous Observation Date:

Previous Observer:

NGVD-1929-Elevation

210.27 NAVD-1988

-2.15 Area Constant

208.12 US survey feet. / 63.43511 meters.

Latest Observation Date: June, 26, 2008 Greenwich Mean Time 9:16:57 PM.

Epoch Date- 1214515017

Julian Date- 2454644.38677

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 # 2224

Found a 1 ½-inch aluminum cap stamped "Y.C.H.D.", in a hand hole approximately 3 inches below the asphalt road surface.

This is a Section Corner being the

Southwest Corner of Section 19, T9S, R22W;

Southeast Corner of Section 24, T9S, R23W;

Northeast Corner of Section 25, T9S, R23W;

Northwest Corner of Section 30, T9S, R22W, of the Gila and Salt River Base and Meridian.

Located at the centerline of County 14<sup>th</sup> Street and Avenue 4E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°37'34.22372" North

Longitude 114°33'49.03075" West

Ellipsoid Height 98.060 survey feet, (or 29.889 meters)

North 592,466.657 survey feet

East 249,742.615 survey feet

NGVD-1929-Elevation

207.226 survey feet, (or 63.163 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'34.22374" North

Longitude 114°33'49.03085" West

Ellipsoid Height 98.061 survey feet, (or 29.889 meters)

North 592,506.098 survey feet

East 449,505.453 survey feet

NAVD-1988-Elevation

209.408 survey feet, (or 63.828 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, January 26, 2006.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License # 19329

California License # 5643



BENCHMARK # 2225

Found a 2 ½-inch brass cap stamped "LS 16587", in a hand hole approximately 4 inches below the asphalt road surface.

This is a Section Corner being the  
South ¼ Corner of Section 24, T9S, R23W;  
North ¼ Corner of Section 25, T9S, R23W, of the Gila and Salt River Base and Meridian.

Located at the centerline of County 14<sup>th</sup> Street and Avenue 3 ½ E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.86776" North  
Longitude 114°34'19.97066" West  
Ellipsoid Height 91.743 survey feet, (or 27.963 meters)  
North 592,451.060 survey feet  
East 247,096.272 survey feet

NGVD-1929-Elevation

200.911 survey feet, (or 61.238 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.86774" North  
Longitude 114°34'19.97039" West  
Ellipsoid Height 91.765 survey feet, (or 27.970 meters)  
North 592,490.516 survey feet  
East 446,859.142 survey feet

NAVD-1988-Elevation

203.113 survey feet, (or 61.909 meters)

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

Latest Observation Date: Wednesday, May 4, 2006.  
Observer: Martin Sandoval.

Under the direct supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License # 19329  
California License # 56403

MS  
5-5-06



BENCHMARK # 2226

Found a 3-inch diameter brass cap stamped "L.S.22767, 2002", set in concrete inside a 6-inch diameter PVC pipe, in a hand hole approximately 3 inches below the asphalt road surface.

This is a Section Corner being the

Southeast Corner of Section 23, T9S, R23W;

Southwest Corner of Section 24, T9S, R23W;

Northwest Corner of Section 25, T9S, R23W;

Northeast Corner of Section 26, T9S, R23W, of the Gila and Salt River Base and Meridian.

Located at the centerline of County 14<sup>th</sup> Street and Avenue 3E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.51220" North

Longitude 114°34'50.91339" West

Ellipsoid Height 90.227 survey feet, (or 27.501 meters)

North 592,435.718 survey feet

East 244,449.683 survey feet

NGVD-1929-Elevation

199.396 survey feet, (or 60.776 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.51187" North

Longitude 114°34'50.91344" West

Ellipsoid Height 90.276 survey feet, (or 27.516 meters)

North 592,475.163 survey feet

East 444,212.525 survey feet

NAVD-1988-Elevation

201.624 survey feet, (or 61.455 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, January 27, 2006.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden.

Registered Land Surveyor

Arizona License # 19329

California License # 5643



BENCHMARK # 2227

Found a 3/4-inch diameter rebar in a hand hole approximately 6 inches below the asphalt road surface.

This is a Section 1/4 Corner being the  
South 1/4 Corner of Section 23, T9S, R23W;  
North 1/4 Corner of Section 26, T9S, R23W, of the Gila and Salt River Base and Meridian.

Located at the centerline of County 14<sup>th</sup> Street and Avenue 2 1/2 E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.36922" North  
Longitude 114°35'21.97076" West  
Ellipsoid Height 90.097 survey feet, (or 27.462 meters)  
North 592,442.153 survey feet  
East 241,793.456 survey feet

NGVD-1929-Elevation

199.273 survey feet, (or 60.739 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.36920" North  
Longitude 114°35'21.97058" West  
Ellipsoid Height 90.091 survey feet, (or 27.460 meters)  
North 592,481.648 survey feet  
East 441,556.318 survey feet

NAVD-1988-Elevation

201.445 survey feet, (or 61.401 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, January 26, 2003.

Observer: Martin Sandoval.

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



CORRECTED

BENCHMARK # 2228

Found a 3-inch diameter brass cap stamped "CITY OF YUMA, T9S, R23W, S22, S23, S27, S26, 2000, LS 19329", approximately 4 inches below the asphalt road surface.

This is a Section Corner being the  
Southeast Corner of Section 22 T9S, R23W;  
Southwest Corner of Section 23, T9S, R23W;  
Northwest Corner of Section 26, T9S, R23W;  
Northeast Corner of Section 27, T9S, R23W, of the Gila and Salt River Base and Meridian.

Located at the centerline of County 14<sup>th</sup> Street and Avenue 2E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.22406" North  
Longitude 114°35'53.02773" West  
Ellipsoid Height 90.230 survey feet, (or 27.502 meters)  
North 592,448.581 survey feet  
East 239,137.260 survey feet

NGVD-1929-Elevation

199.417 survey feet, (or 60.782 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.22398" North  
Longitude 114°35'53.02784" West  
Ellipsoid Height 90.252 survey feet, (or 27.509 meters)  
North 592,448.091 survey feet 592,488.091 SFT. B.L.U. 9-24-09  
East 438,900.097 survey feet

NAVD-1988-Elevation

201.615 survey feet, (or 61.452 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, January 26, 2006.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2229

Found a brass cap stamped "City of Yuma, T9S, R23W, S22, S27, 2000, LS 19329", approximately 3 inches below the asphalt road surface.

This is a Section Corner being the  
South ¼ Corner of Section 22, T9S, R23W;  
North ¼ Corner of Section 27, T9S, R23W, of the Gila and Salt River Base and Meridian.

Located at the centerline of County 14<sup>th</sup> Street and Avenue 1 ½ E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.21288" North  
Longitude 114°36'24.42340" West  
Ellipsoid Height 89.606 survey feet, (or 27.312 meters)  
North 592,469.000 survey feet  
East 236,452.207 survey feet

NGVD-1929-Elevation

198.809 survey feet, (or 60.597 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.21324" North  
Longitude 114°36'24.42355" West  
Ellipsoid Height 89.559 survey feet, (or 27.298 meters)  
North 592,508.575 survey feet  
East 436,215.041 survey feet

NAVD-1988-Elevation

200.937 survey feet, (or 61.246 meters)

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

Latest Observation Date: Wednesday, May 4, 2006.  
Observer: Martin Sandoval.

Under the direct supervision of: Larry R. Dresden  
Registered Land Surveyor  
Arizona License # 19329  
California License # 56483

MS  
5-5-06



BENCHMARK # 2230

Found a 3-inch diameter aluminum cap stamped "Yuma County, T9S, R23W, S21, S22, S27, S28, 1983", in a hand hole approximately 10 inches below the asphalt road surface.

This is a Section Corner being the  
Southeast Corner of Section 21, T9S, R23W;  
Southwest Corner of Section 22, T9S, R23W;  
Northwest Corner of section 27, T9S, R23W;  
Northeast Corner of Section 28, T9S, R23W, of the Gila and Salt River Base and Meridian.

Located at the centerline of County 14<sup>th</sup> Street and Avenue 1E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.20222" North  
Longitude 114°36'55.80393" West  
Ellipsoid Height 83.075 survey feet, (or 25.321 meters)  
North 592,489.681 survey feet  
East 233,768.451 survey feet

NGVD-1929-Elevation

192.298 survey feet, (or 58.613 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.20246" North  
Longitude 114°36'55.80386" West  
Ellipsoid Height 83.054 survey feet, (or 25.306 meters)  
North 592,529.264 survey feet  
East 433,531.304 survey feet

NAVD-1988-Elevation

194.421 survey feet, (or 59.260 meters)

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

Latest Observation Date: Thursday, May 5, 2006.  
Observer: Martin Sandoval.

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



BENCHMARK #2231

Found a 2 ½ inch brass cap, with Bureau of Reclamation, and a punch mark set in concrete, in a hand hole approximately 8" below the asphalt road surface.

This is a Section ¼ Corner being the  
North ¼ Corner of Section 28, T9S, R23W;  
South ¼ Corner of Section 21, T9S, R23W, of the Gila and Salt River Base and Meridian

Being located on County 14<sup>th</sup> Street and 4<sup>th</sup> Avenue Extension.

NAD-1927-Coordinates ( Arizona West Zone 0203)

Latitude 32°37'33.08187"N  
Longitude 114°37'26.64483"W  
Ellipsoid Height 84.052 survey feet (or 25.619 meters)  
North 592,499.117 survey feet  
East 231,130.756 survey feet

NGVD-1929-Elevation

193.299 survey feet

NAD-1983- Coordinates (Arizona West Zone 0203)

Latitude 32°37'33.08172"N  
Longitude 114°37'26.64467"W  
Ellipsoid Height 84.018 survey feet (or 25.609 meters)  
North 592,538.680 survey feet  
East 430,893.617 survey feet

NAVD-1988-Elevation

195.438 survey feet (or 59.570 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Tuesday, December 21<sup>st</sup>, 2004.

Observer: Cryselle Uribe

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



BENCHMARK # 2232

Found a 3-inch diameter brass cap in concrete, set in a hand hole approximately 5 inches below the asphalt road surface.

Being located at the intersection of Avenue A and County 14<sup>th</sup> Street.

This is a Corner being the  
Southeast Corner of Section 20, T9S, R23W;  
Southwest Corner of Section 21, T9S, R23W;  
Northeast Corner of Section 29, T9S, R23W;  
Northwest Corner of Section 28, T9S, R23W, of the Gila and Salt River Base and Meridian.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°37'32.96134"North  
Longitude 114°37'57.48702"West  
Ellipsoid Height 80.095 survey feet, (or 24.413 meters)  
North 592,508.748 survey feet  
East 228,492.950 survey feet

NGVD-1929-Elevation

189.372 survey feet, (or 57.721 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'32.96148"North  
Longitude 114°37'57.48639"West  
Ellipsoid Height 80.019 survey feet, (or 24.390 meters)  
North 592,548.360 survey feet  
East 428,255.851 survey feet

NAVD-1988-Elevation

191.467 survey feet, (or 58.359 meters)

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

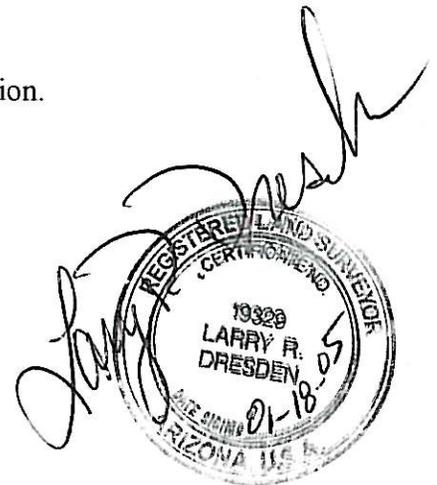
Previous Observation Date:

Previous Observer:

Latest Observation Date: Tuesday, December 21, 2004.

Observer: Martin Sandoval.

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



BENCHMARK # 2234  
STATION WEST 2003 by D.M.  
PID # DB0193

Found a 3 inch diameter brass cap with punch mark and stamping of WEST in a very large concrete base. This is located about 200 feet West of the intersection of Avenue 9E and 32nd Street in the middle of the sandy median of Interstate 8. This has been moved about 1,000 feet to the West presumably by ADOT from the previously NGS published location.

NAD-1927-Coordinates (Arizona West Zone 0203)  
Latitude 32° 40' 13.88053" North  
Longitude 114° 28' 44.08819" West  
Ellipsoid Height 104.66 survey feet, (or 31.710 meters)  
North 608,412.848 survey feet  
East 275,932.969 survey feet

NGVD-1929-Elevation  
212.680 survey feet, (or 64.82 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32° 40' 13.88013" North  
Longitude 114° 28' 44.08590" West  
Ellipsoid Height 104.065 survey feet, (or 31.719 meters)  
North 608,452.050 survey feet  
East 475,696.130 survey feet

NAVD-1988-Elevation  
214.895 survey feet, (or 65.50 meters)

Previous Observation Date: July 23rd, 2002.  
Previous Observer: Larry R. Dresden

Latest Observation Date:  
Latest Observer:

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



BENCHMARK #2235  
STATION HUMM

Set a 3-inch diameter brass cap, (in a 2-foot diameter concrete encasement), on top of a 2-inch diameter galvanized pipe 3-feet long, with the top of the brass cap being approximately 3-inches below the dirt ground surface. This is stamped with a punch mark, LS19329, HUMM, City of Yuma, and the year 2003. An orange fiberglass witness post was set adjacent to and North of this brass cap. Located at the West Wetlands Park in the approximate center of the hummingbird educational area. A 30-minute real time kinematic observation was done in both the City of Yuma's locally calibrated, (and NGS approved), NAD-1927/NGVD-1929 and NAD-1983/NAVD-1988, for use by both the City of Yuma and outside contracting survey crews. This position is an excellent location for a mobile gps base station to broadcast from, to initialize a gps rover receiver from, or to check in to with a gps rover receiver, (for calibration of a gps survey project), to easily and readily become fixed on the City of Yuma Datum.

NAD-1927-Coordinates (Arizona West Zone 0203)

North 630,653.014 survey feet  
East 226,765.602 survey feet

NGVD-1929-Elevation

136.730 survey feet, (or 41.68 meters)

NAD-1983- Coordinates (Arizona West Zone 0203)

Latitude 32°43'50.22130" North  
Longitude 114°38'21.41827" West  
Ellipsoid Height 27.981 survey feet, (or 8.53 meters)  
North 630692.569 survey feet  
East 426528.629 survey feet

NAVD-1988-Elevation

138.852 survey feet, (or 42.32 meters)

Previous Observation Date: June 05, 2003

Previous Observer: LARRY R. DRESDEN

Latest Observation Date: Friday November 05, 2004.

Observers: John Nye, Louis Romero

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



BENCHMARK # 2236

STATION MARIN  
NGS PID-DB0249

[MCAS BM#25]

Found a 3 3/4-inch diameter brass cap properly stamped with punch mark, set flush on the northwest corner of an 18ft x 18 ft concrete slab atop a small hill.

Being located at the Marine Corps Air Station in Yuma, Arizona, *Adjacent to #2268, #2269, #2270.*

Permission needs to be acquired from MCAS prior to usage of this survey point. Suggest contacting Jose Rodriguez (MCAS surveyor) at 246-7068 to make escort arrangements onto the Military Base.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°39'10.99186" North  
Longitude 114°35'29.97496" West  
Ellipsoid Height 164.471 survey feet, or (50.131 meters)  
North 602,313.603 survey feet  
East 241,187.093 survey feet

NGVD-1929-Elevation

273.438 survey feet, or (83.344 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'10.99191" North  
Longitude 114°35'29.97517" West  
Ellipsoid Height 164.483 survey feet, or (50.135 meters)  
North 602,353.111 survey feet  
East 440,949.995 survey feet

NAVD-1988-Elevation

275.622 survey feet, or (84.009 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Thursday, February 3<sup>rd</sup>, 2005.

Observer: Martin Sandoval.

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



BENCHMARK # 2237  
HILL

Set a 3 inch diameter brass cap with a punch mark and stamped HILL in concrete on the West side of and about 85 feet from the City of Yuma's Radio Repeater Microwave Tower. This is at what would be the approximate intersection of Madison Avenue and 8th Street atop "Black Hill".

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude

Longitude

Ellipsoid Height

North

East

NGVD-1929-Elevation

273.45 survey feet, (or 83.35 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32° 42' 48.81035" North

Longitude 114° 37' 09.47663" West

Ellipsoid Height 164.93 survey feet, (or 50.271 meters)

North 624,435.172 survey feet

East 432,623.258 survey feet

NAVD-1988-Elevation

275.80 survey feet, (or 84.062 meters)

Previous Observation Date: July 23rd, 2003.

Previous Observer: Larry R. Dresden

Latest Observation Date:

Latest Observer:

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License # 19329

California License # 5643



BENCHMARK # 2238  
STATION ~~BM~~X7  
PID # DB0227

Found a 3 inch diameter U. S. Coast & Geodetic Survey brass cap with a punch mark and stamped with X7 and the year of 1927 set in a concrete base about 1 foot above the ground and near the railroad tracks.

This is located at the approximate intersection of Avenue 3 1/2E and 22nd Street.

NAD-1927-Coordinates (Arizona West Zone 0203)  
Latitude 32° 40' 51.5548" North  
Longitude 114° 34' 09.93416" West  
Ellipsoid Height 107.143 survey feet, (or 32.657 meters)  
North 612,423.35 survey feet  
East 248,108.75 survey feet

NGVD-1929-Elevation  
215.92 survey feet, (or 65.81 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32° 40' 51.55536" North  
Longitude 114° 34' 09.93603" West  
Ellipsoid Height 107.12 survey feet, (or 32.65 meters)  
North 612,462.475 survey feet  
East 447,920.794 survey feet

NAVD-1988-Elevation  
218.08 survey feet, (or 66.47 meters)

Previous Observation Date: July 25, 2002.  
Previous Observer: Jose Rodriguez

Latest Observation Date:  
Latest Observer:

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



BENCHMARK # 2239  
STATION CA-HPGN 11-05  
~~AKA "JUNCTION"~~  
PID # DB1732

Found a California Department of Transportation 3 inch diameter brass cap with punch mark and CA-HPGN 11-05 stamped on it set in concrete in the Southeast Corner of the I-8 bridge located 2 miles West of Algodones Road, on the Seminole Road bridge overpass.

NAD-1927-Coordinates (Arizona West Zone 0203)  
Latitude 32° 44' 45.64647" North  
Longitude 114° 42' 13.51427" West  
Ellipsoid Height 107.057 survey feet, (or 32.631 meters)  
North 636,426.43 survey feet  
East 206,989.58 survey feet

NGVD-1929-Elevation  
215.92 survey feet, (or 65.81 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32° 44' 45.64053" North  
Longitude 114° 42' 13.51491" West  
Ellipsoid Height 69.82 survey feet, (or 21.28 meters)  
North 636,465.588 survey feet  
East 406,752.694 survey feet

NAVD-1988-Elevation  
180.74 survey feet

Previous Observation Date: July 23, 2002.  
Previous Observer: Gilbert Guzman

Latest Observation Date:  
Latest Observer:

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



BENCHMARK #2240

Found a 3" brass cap with punch set in concrete. Previously this was a 1" iron pipe filled with concrete in a handhole about 6" below the asphalt surface.

This a Section Corner being the  
Southeast Corner of Section 7, T9S, R22W;  
Southwest Corner of Section 8, T9S, R22W;  
Northeast Corner of Section 18, T9S, R22W;  
Northwest Corner of Section 17, T9S, R22W, of the Gila and Salt River  
and Meridian.

Located at intersection of Avenue 5E and 40<sup>th</sup> Street.

NAD-1983-Coordinates

Latitude 32°39'19.45875" North  
Longitude 114°32'48.78292" West  
Ellipsoid Height 95.539 survey feet  
North 603,102.399 survey feet  
East 454,737.898 survey feet

NAVD-1988-Elevation

207.677 survey feet

NAD-1927-Coordinates

North 603,063.009 survey feet  
East 254,974.969 survey feet

NGVD-1929-Elevation

205.504 survey feet

Previous Observation Date: Thursday, November 15, 2001

Previous Observer: Larry R. Dresden

Latest Observation Date: Wednesday, April 13, 2005

Observer: Louis Romero

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



BENCHMARK # 2241

Set a 5/8 inch diameter steel rod with cap LS 19329, 3 inches above ground. This is the Center Quarter Corner of Section 16, T9S, R22W, of the Gila And Salt River Base And Meridian.

Located at Ave. 6 1/2 E ( Hwy - 195 ) and 44<sup>th</sup>. St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'53.89700" North

Longitude 114°31'16.11946" West

Ellipsoid Height 101.403 US Survey Feet / 101.403 International Feet / 30.9077 Meters.

North 600,460.4760 US Survey Feet. / 600,461.6769 International Feet.

East 462,641.5800 US Survey Feet. / 462,642.5053 International Feet.

NAVD-1988-Elevation

212.66 US Survey Feet. / 212.66 International Feet. / 64.81903 Meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

212.66 NAVD-1988

- 2.15 Area Constant

210.51 US Survey Feet. / 210.51 International Feet. / 64.16371 Meters.

Latest Observation Date: June 26, 2012 Greenwich Mean Time 07:00:45 PM.

Epoch Date - 1340737245

Julian Date - 2456105.20885

Observer: Enrique S. Urbietta, Louis Romero and John Nye.

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 # 2242

Found a 1 in. dia. iron pipe with a nail in center, 15 inches below asphalt in frame and cover. This is the SE Corner of Section 25, T9S, R23W, of the G. & S. R. B. & M.

Located on Ave. 4E. and 64<sup>th</sup> St. ( County 15<sup>th</sup> St. )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°36'41.52230" North

Longitude 114°33'48.52055" West

Ellipsoid Height : 92.341 US Survey Feet / 92.341 International Feet / 28.1456 Meters.

North 587,179.4380 US survey feet / 587,180.6124 International feet.

East 449,508.5670 US survey feet / 449,509.4660 International feet.

NAVD-1988-Elevation

203.89 US Survey Feet. / 203.89 International Feet. / 62.1458 Meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

203.89 NAVD-1988

-2.15 Area Constant

201.74 US Survey Feet. / 201.74 International Feet / 61.49048 Meters.

Latest Observation Date: November 14, 2012 Greenwich Mean Time 4:29:57 PM.

Epoch Date- 1352910597

Julian Date- 2456246.18747

Observer: Enrique S. Urbieta 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 # 2243

Found a 1 inch diameter iron pipe, 15 inches below asphalt. This is the East Quarter Corner of Section 36, T9S, R23W, of the G. & S. R. B. & M.

Located on Ave. 4E. and 68<sup>th</sup> St. ( County 15 1/2. St. )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°36'15.16689" North

Longitude 114°33'48.26074" West

Ellipsoid Height : 90.241 US Survey Feet / 90.241 International Feet / 27.50552 Meters.

North 584,515.7060 US survey feet / 584,516.8750 International feet.

East 449,510.4120 US survey feet / 449,511.3110 International feet.

NAVD-1988-Elevation

201.84 US Survey Feet. / 201.84 International Feet. / 61.5210 Meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

201.84 NAVD-1988

- 2.15 Area Constant

199.69 US Survey Feet. / 199.69 International Feet / 61.49048 Meters.

Latest Observation Date: November 14, 2012 Greenwich Mean Time 5:10:20 PM.

Epoch Date- 1352913020

Julian Date- 2456246.2155

Observer: Enrique S. Urbietta 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 # 2244  
STATION V257 DB0243

Found a 3 1/2-inch iron cap stamped "USC&GS BM, V257, 1945" at the canal headwall.

Located at the southeast corner of 32<sup>nd</sup> Street and Avenue 3E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°40'09.71990" North  
Longitude 114°34'51.95000" West  
Ellipsoid Height 105.625 survey feet, (or 32.195 meters)  
North 608,223.259 survey feet  
East 244,484.554 survey feet

NGVD-1929-Elevation

214.474 survey feet, (or 65.372 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'09.71993" North  
Longitude 114°34'51.94998" West  
Ellipsoid Height 105.634 survey feet, (or 32.197 meters)  
North 608,262.741 survey feet 608,261.5245 Int. Ft.,  
East 444,247.520 survey feet 444,246.6315 Int. Ft.,

NAVD-1988-Elevation

216.652 survey feet, (or 66.036 meters) 216.652 Int. Ft.,

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Thursday, March 23, 2006.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2245

Found a 3 inch diameter brass cap, set <sup>in</sup> concrete, with punch and LS #22767, in a hand hole approximately 6 inches below the asphalt road surface.

~~This is a Section 1/4 Corner being the  
East 1/4 Corner of Section 19, T8S, R23W;  
West 1/4 Corner of Section 20, T8S, R23W, of the Gila and Salt River Base and Meridian.~~

Being located at the intersection of 5<sup>th</sup> Street <sup>(WEST)</sup> and Avenue B.

NAD-1927- Coordinates (Arizona West Zone 0203)

Latitude 32°43'06.66577" North  
Longitude 114°39'01.54625" West  
Ellipsoid Height 20.092 survey feet, (or 6.124 meters)  
North 626,280.152 survey feet  
East 223,300.211 survey feet

NGVD-1929-Elevation

128.909 survey feet, (or 39.292 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'06.66580" North  
Longitude 114°39'01.54602" West  
Ellipsoid Height 20.056 survey feet, (or 6.113 meters)  
North 626,319.832 survey feet  
East 423,063.339 survey feet

NAVD-1988-Elevation

131.013 survey feet, (or 39.933 meters)

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

Previous Observation date:

Previous Observer:

Latest Observation Date: Wednesday, May 19, 2004.

Observer: Cryselle Uribe

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



STATION BENCHMARK # 2246  
FEDER RESET

DB 1356

Found a 3" diameter brass cap stamped US COAST & GEODETIC SURVEY, FEDER RESET, set in pvc pipe with concrete.

Being located approximately 75 feet north of the North Frontage Rd. and 3 1/2 E.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'16.40574" North

Longitude 114°34'18.37902" West

Ellipsoid Height 106.965 US survey feet, (or 32.60 meters)

North 614940.454 US survey feet

East 247406.393 US survey feet

NGVD-1929-Elevation

215.699 US survey feet, (or 65.75 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'16.40583" North

Longitude 114°34'18.37902" West

Ellipsoid Height 106.977 US survey feet, (or 32.61 meters)

North 614979.919 US survey feet

East 447169.407 US survey feet

NAVD-1988-Elevation

217.877 US survey feet, (or 66.41 meters)

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

Latest Observation Date: Thursday March 23, 2006.

Observer: John Nye

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



BENCHMARK # 2247

Found a 3in. diameter Brass Cap LS 31018-2009 properly stamped, encased in concrete, flush with asphalt. A 3in. diameter Brass Cap Yuma County, LS 15767-1989 N1/4, S20 stamped on it, inside a frame and cover, was found prior. Being the North Quarter Corner of Section 20, T8S, R23W, of the G.&S.R.B.&M.

Located at Magnolia Ave. and approximately 46.00 FT. North of West Main Canal.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'25.77400" North  
Longitude 114°38'30.55661" West  
Ellipsoid Height : 25.312 US survey feet / 25.312 International feet / 7.7151 Meters.  
North 628,228.391 US survey feet / 628,229.6475 International feet.  
East 425,727.294 US survey feet / 425,728.1455 International feet.

NAVD-1988-Elevation

136.21 US survey feet. / 136.21 International feet. / 41.51689 Meters.

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

Previous Observation Date: Wednesday, September 08, 2004

Previous Observer: Martin Sandoval

NGVD-1929-Elevation

136.21 NAVD-1988

-2.15 Area Constant

134.06 Survey feet. / 40.86157 Meters.

Latest Observation Date: Tuesday, May 18, 2010 Greenwich Mean Time 5:20:26 PM.

Epoch Date- 1274203226

Observer: Enrique S. Urbieto and Louis Romero

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2248  
STATION A 8  
NGS - DB 0190

Found a U S Geological Survey BM Brass Cap stamped A 8, 1927, designated number BM220 on the USGS QUADRANGLE MAP.

Being located next to railroad tracks on dirt road approximately .5 mile east of Avenue 9E.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'59.53720" North

Longitude 114°28'02.48055" West

Ellipsoid Height 111.110 US Survey Feet / 111.110 International Feet / 33.8665 Meters.

North 613,042.0950 US Survey Feet. / 613,043.3211 International Feet.

East 479,284.0110 US Survey Feet / 479,284.9696 International Feet.

NAVD-1988-Elevation

221.87 US Survey Feet. / 221.87 International Feet. / 67.6262 Meters.

NGVD - 1929 Elevation

221.87 NAVD - 1988

- 2.15 Area Constant

219.72 Survey Feet. / 66.9708 Meters.

Latest Observation Date: May 20, 2002 Observer: Gilbert Guzman

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

Corrected from 10-22-04



BENCHMARK # 2249

Found previously a 1/2in. dia. rebar with cap LS 16810, 1in. below asphalt. Set a 3in. Brass cap LS 19329-COY-2010, in frame and cover 6in. below asphalt. This is the Common 1/4 Corner for Sections 8 and 17, T9S, R22W, G&SRB&M.

Located on Ave.5 1/2 E. and 40<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'19.75620" North

Longitude 114°32'18.18013" West

Ellipsoid Height : 99.452 US Survey Feet / 99.452 International Feet / 30.31303 Meters.

North 603,112.8610 US Survey Feet / 603,114.0672 International Feet.

East 457,354.6410 US Survey Feet / 457,355.5557 International Feet.

NAVD-1988-Elevation

210.67 US Survey Feet. / 210.67 International Feet. / 64.2124 Meters.

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

Previous Observation Date: April 13, 2005

Previous Observer: Louis Romero

NGVD-1929-Elevation

210.67 NAVD-1988

-2.15 Area Constant

208.52 US Survey Feet. / 43.6932 Meters.

Latest Observation Date: October 25, 2010 Greenwich Mean Time 4:44:07 PM.

Epoch Date- 1288025047

Julian Date- 2455495.1973

Observer: Enrique S. Urbietta

Under the Direct Supervision of :

Larry R. Dresden, Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK #2250

Found a 1 inch diameter pipe, ~~set~~ in a hand hole, *set PK Nail on top of 1" center,*

This is a Section ¼ Corner being the  
West ¼ Corner of Section 8, T9S, R22W;  
East ¼ Corner of Section 7, T9S, R22W, of the Gila and Salt River Base and Meridian.

Being located at the centerline of 36<sup>th</sup> Street and Avenue 5 E.

NAD-1927-Coordinates (Arizona Zone 0203)

Latitude 32°39'45.70487"N  
Longitude 114°32'49.02174"W  
Ellipsoid Height 98.722 survey feet, (or 30.091 meters)  
North 605,715.681 survey feet  
East 254,974.455 survey feet

NGVD-1929-Elevation

207.630 survey feet, (or 63.286 meters)

NAD-1983-Coordinates (Arizona Zone 0203)

Latitude 32°39'45.70473"N  
Longitude 114°32'49.02167"W  
Ellipsoid Height 98.765 survey feet, (or 30.104 meters)  
North 605,755.067 survey feet  
East 454,737.406 survey feet

NAVD-1988-Elevation

209.848 survey feet, (or 63.962 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Thursday, October 14, 2004.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2251

Found a 3 in. diameter. brass cap LS 15767-Yuma County-1994 properly stamped, 19 inches below asphalt in frame and cover. This is the Southeast Corner of Section 36, T9S, R23W, of the G.& S. R. B.& M.

Located on Ave. 4E.and 72<sup>nd</sup> St. ( County 16<sup>th</sup>. St. )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°35'48.81617" North

Longitude 114°33'48.0084" West

Ellipsoid Height : 93.160 US Survey Feet / 93.160 International Feet / 28.39523 Meters.

North 581,852.4510 US survey feet / 581,853.6147 International feet.

East 449,512.2760 US survey feet / 449,513.1750 International feet.

NAVD-1988-Elevation

204.81 US Survey Feet. / 204.81 International Feet. / 62.42622 Meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

204.81 NAVD-1988

-2.15 Area Constant

202.66 US Survey Feet. / 202.66 International Feet / 61.7709 Meters.

Latest Observation Date: November 14, 2012 Greenwich Mean Time 5:54:03 PM.

Epoch Date- 1352915643

Julian Date- 2456246.24587

Observer: Enrique S. Urbieto 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 # 2252

Found prior a 2 1/2in. dia. brass cap 18in. below asphalt. Found a 2 1/2in. dia. cap, BOR-1967, 18in. below asphalt in frame and cover. This is the Common Corner of Sections 35 and 36, T8S, R24W and the Common Corner of Sections 1 and 2, T9S, R24W of the Gila And Salt River Base And Meridian.

Located at Ave. D and 24<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.56264" North

Longitude 114°41'04.71216" West

Ellipsoid Height 6.417 US Survey Feet / 6.417 International Feet / 1.95591 Meters.

North 613,767.2430 US Survey Feet. / 613,768.4705 International Feet.

East 412,429.0540 US Survey Feet. / 412,429.8789 International Feet.

NAVD-1988-Elevation

117.78 US Survey Feet. / 117.78 International Feet. / 35.89942 Meters.

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

Previous Observation Date: November 08, 2004

Previous Observer: John Nye and Cryselle Uribe

NGVD-1929-Elevation

117.78 NAVD-1988

- 2.15 Area Constant

115.63 US Survey Feet. / 115.63 International Feet. / 35.2441 Meters.

Latest Observation Date: November 30, 2011 Greenwich Mean Time 04:54:09 PM.

Epoch Date - 1322672049 Julian Date - 2455896.20427

Observer: Enrique S. Urbieta

BENCHMARK # 2253

Found a 1/2" diameter rebar approximately 3 inches below surface.

This is a South 1/4, Section 36, and North 1/4, Section 1, of the Gila and Salt River Base and Meridian.

Being located in the east bound lane of 24<sup>th</sup> Street and C-1/2.  
*intersection*

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.64244" North

Longitude 114°40'33.74824" West

Ellipsoid Height 9.18 survey feet, (or 2.798 meters)

North 613712.376 survey feet

East 215312.977 survey feet

NGVD-1929-Elevation

118.336 survey feet, (or 36.068 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°41'01.64266" North

Longitude 114°40'33.74833" West

Ellipsoid Height 9.21 survey feet, (or 2.807 meters)

North 613752.094 survey feet

East 415075.974 survey feet

NAVD-1988-Elevation

120.516 survey feet, (or 36.733 meters)

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

Latest Observation Date: Monday November 9, 2004

Observer: John Nye, Cryselle Uribe

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License #5643



BENCHMARK # 2254

Found a 3in. dia. brass cap LS 28741, with punch mark, encased in concrete, 4 inches below asphalt, in frame and cover. This is the SE Corner of Section 1, T9S, R24W, of the Gila And Salt River Base And Meridian.

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

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'09.46982" North

Longitude 114°40'02.38713" West

Ellipsoid Height 8.594 US Survey Feet / 8.594 International Feet / 2.619456 Meters.

North 608,455.9680 US Survey Feet. / 608,457.1849 International Feet.

East 417,710.4240 US Survey Feet. / 417,711.2594 International Feet.

NAVD-1988-Elevation

119.98 US Survey Feet. / 119.98 International Feet. / 36.56998 Meters.

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

Previous Observation Date: November 30, 2004 Previous Observer: Cryselle Uribe.

NGVD-1929-Elevation

119.98 NAVD-1988

- 2.15 Area Constant

117.83 US Survey Feet. / 117.83 International Feet. / 35.91466 Meters.

Latest Observation Date: February 26, 2013 Greenwich Mean Time 03:59:51 PM.

Epoch Date - 1361894391

Julian Date - 2456350.16656

Observer: Enrique S. Urbieto and Louis Romero.

Under the Direct Supervision of : Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2255

Found an old Rail Road Spike approximately 3 feet south of the centerline and couple inches below the asphalt road surface, ~~and~~ replaced with a 5/8 inch diameter rebar and Plastic cap stamped "City of Yuma, L.S. 19329". *after an exhaustive search was made 2 feet below road surface,*

This is a Section ¼ Corner being the  
South ¼ Corner of Section 6, T9S, R23W;  
North ¼ Corner of Section 7, T9S, R23W, of the Gila and Salt River base and Meridian.

Being located at the centerline of 32<sup>nd</sup> Street and Avenue B1/2.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°40'09.73749" North  
Longitude 114°39'31.32778" West  
Ellipsoid Height 8.220 survey feet, (or 2.505 meters)  
North 608,420.624 survey feet  
East 220,603.001 survey feet

NGVD-1929-Elevation

117.365 survey feet, (or 35.773 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'09.73745" North  
Longitude 114°39'31.32785" West  
Ellipsoid Height 8.205 survey feet, (or 2.501 meters)  
North 608,460.277 survey feet  
East 420,365.961 survey feet

NAVD-1988-Elevation

119.508 survey feet, (or 36.426 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Tuesday, November 30, 2004.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2256

Found a ½ inch diameter rebar in a hand hole (frame and cover 3 to 4 inches below the asphalt road surface).

This is a Section ¼ Corner being the  
West ¼ Corner of Section 6, T9S, R23W;  
East ¼ Corner of Section 1, T9S, R24W, of the Gila and Salt River Base and Meridian.

Being located at the centerline of Avenue C and 28<sup>th</sup> Street.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°40'35.60778" North  
Longitude 114°40'02.58452" West  
Ellipsoid Height 9.579 survey feet, (or 2.920 meters)  
North 611,058.119 survey feet  
East 217,953.727 survey feet

NGVD-1929-Elevation

118.726 survey feet, (or 36.188 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'35.60775" North  
Longitude 114°40'02.58431" West  
Ellipsoid Height 9.576 survey feet, (or 2.920 meters)  
North 611,097.793 survey feet  
East 417,716.730 survey feet

NAVD-1988-Elevation

120.880 survey feet, (or 36.844 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Wednesday, December 01, 2004.

Observer: Martin Sandoval.

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



BENCHMARK # 2257

Found a 3 inch diameter brass cap stamped "T9S, ¼, S12, R24W, S7, R23W, LS 15767, 1987", in a hand hole approximately 2 feet west of the centerline (frame and cover 2 to 3 inches below the asphalt road surface).

This is a Section ¼ Corner being the  
West ¼ Corner of Section 7, T9S, R23W;  
East ¼ Corner of Section 12, T9S, R24W, of the Gila and Salt River base and Meridian.

Being located at the centerline of Avenue C and 36<sup>th</sup> Street.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°39'43.26458" North  
Longitude 114°40'02.22383" West  
Ellipsoid Height 11.022 survey feet, (or 3.360 meters)  
North 605,767.899 survey feet  
East 217,938.871 survey feet

NGVD-1929-Elevation

120.257 survey feet, (or 36.654 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'43.26457" North  
Longitude 114°40'02.22389" West  
Ellipsoid Height 11.009 survey feet, (or 3.356 meters)  
North 605,807.575 survey feet  
East 417,701.812 survey feet

NAVD-1988-Elevation

122.403 survey feet, (or 37.309 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Wednesday, December 01, 2004.

Observer: Martin Sandoval.

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



BENCHMARK # 2258

On July 1970 Yuma County Highway Department found a bolt in a 4in. dia. iron pipe, according to Book 1, page 74, of the YCHD Section Corner Records. Found a 5/8in. dia. rebar set in concrete inside a 4in. dia. iron pipe, 5 inches below asphalt. This is the SE Corner of Section 12, T9S, R24W, of the Gila And Salt River Base And Meridian.

Located at Ave. C and 40<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'17.03648" North

Longitude 114°40'02.07690" West

Ellipsoid Height 6.970 US Survey Feet / 6.970 International Feet / 2.1245 Meters.

North 603,156.5520 US Survey Feet. / 603,157.7583 International Feet.

East 417,691.1570 US Survey Feet. / 417,691.9924 International Feet.

NAVD-1988-Elevation

118.45 US Survey Feet. / 118.45 International Feet. / 36.10364 Meters.

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

Previous Observation Date: December 01, 2004 Previous Observer: Louis Romero.

NGVD-1929-Elevation

118.45 NAVD-1988

- 2.15 Area Constant

116.30 US Survey Feet. / 116.30 International Feet. / 35.44832 Meters.

Latest Observation Date: February 26, 2013 Greenwich Mean Time 08:40:11 PM.

Epoch Date - 1364332543

Julian Date - 2456350.06957

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 #2259

Found #5 rebar in handhole 18" below asphalt encased in 6" pvc pipe.

South ¼ Corner of Section 7, T9S, R23W of the Gila and Salt River Base and Meridian.

Being located at 40<sup>th</sup> Street (Co. 12<sup>th</sup> Street) and Ave B½.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°39'17".25874" North  
Longitude 114°39'31".17111" West  
Ellipsoid Height 5.379 survey feet, (or 1.676 meters)  
North 603,116.86 survey feet  
East 220,571.021 survey feet

NGVD-1929-Elevation

114.609 survey feet, (or 35.722 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'17".25876" North  
Longitude 114°39'31".17107" West  
Ellipsoid Height 5.386 survey feet, (or 1.678 meters)  
North 603,156.52 survey feet  
East 420,333.951 survey feet

NAVD-1988-Elevation

116.778 survey feet, (or 36.398meters)

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

Previous Observation date:

Previous Observer:

Latest Observation Date: Thursday, December 1, 2004.

Observer: Louis Romero

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor  
Arizona License #19329  
California License #5643



BENCHMARK #2260

Found a 3" ADOT aluminum cap with punch in handhole.

This is the Southeast corner of Section 7, T9S, R23W of the Gila and Salt River Base and Meridian.

Being located at the intersection of 40<sup>th</sup> Street (Co. 12<sup>th</sup> St.) and Ave B.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°39'17.4704" North  
Longitude 114°39'00.20085" West  
Ellipsoid Height 7.981 survey feet, (or 2.487 meters)  
North 603,115.709 survey feet  
East 223,2419.002 survey feet

NGVD-1929-Elevation

117.166 survey feet, (or 35.519 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'17.47036" North  
Longitude 114°39'00.20115" West  
Ellipsoid Height 8.045 survey feet, (or 2.5075 meters)  
North 603,155.339 survey feet  
East 422,981.902 survey feet

NAVD-1988-Elevation

119.393 survey feet, (or 37.213 meters)

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

Previous Observation date:

Previous Observer:

Latest Observation Date Thursday, December 1, 2004.

Observer: Louis Romero

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License #5643



BENCHMARK # 2261

Found a 3" diameter aluminum cap in handhole stamped ADOT HIGHWAY DIV.  
This is a 1/4 Corner being the  
East Corner of Section 7, T9S, R23W;  
West Corner of Section 8, T9S, R23W;  
of the Gila and Salt River Base and Meridian.

Being located at Avenue B and 36<sup>th</sup> Street.

NAD-1927-Coordinates (Arizona West Zone 0203)  
Latitude 32°39'43.74468" North  
Longitude 114°39'00.34328" West  
Ellipsoid Height 11.929 survey feet, (or 3.636 meters)  
North 605771.162 survey feet  
East 223229.327 survey feet

NGVD-1929-Elevation  
121.071 survey feet, (or 36.903 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32°39'43.74475" North  
Longitude 114°39'00.34330" West  
Ellipsoid Height 11.931 survey feet, (or 6.637 meters)  
North 605810.806 survey feet  
East 422992.272 survey feet

NAVD-1988-Elevation  
123.235 survey feet, (or 37.562 meters)

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

Latest Observation Date: Friday December 4, 2004  
Observer: John Nye

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



BENCHMARK # 2262

Found a 3" diameter aluminum cap in handhole stamped ADOT HIGHWAY DIV.  
This is a 1/4 Corner being the  
East Corner of Section 18, T9S, R23W;  
West Corner of Section 17, T9S, R23W;  
of the Gila and Salt River Base and Meridian.

Being located at Avenue B and County 12-1/2. (44th St.)

NAD-1927-Coordinates (Arizona West Zone 0203)  
Latitude 32°38'51.13199" North  
Longitude 114°39'00.21944" West  
Ellipsoid Height 7.190 survey feet, (or 2.192 meters)  
North 600453.889 survey feet  
East 223194.856 survey feet

NGVD-1929-Elevation  
116.417 survey feet, (or 35.484 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)  
Latitude 32°38'51.13212" North  
Longitude 114°39'00.21940" West  
Ellipsoid Height 7.204 survey feet, (or 2.196 meters)  
North 600493.539 survey feet  
East 422957.766 survey feet

NAVD-1988-Elevation  
118.596 survey feet, (or 36.148 meters)

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

Latest Observation Date: Friday December 4, 2004  
Observer: John Nye

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



BENCHMARK # 2263

Found a 3 inch diameter aluminum cap with a punch mark, and A.D.O.T. HIGHWAY DIV., set in concrete, and in a hand hole approximately 3 inches below the asphalt road surface.

This is a Section Corner being the  
Southeast Corner of Section 18, T9S, R23W;  
Northeast Corner of Section 19, T9S, R23W;  
Southwest Corner of Section 17, T9S, R23W;  
Northwest Corner of Section 20, T9S, R23W, of the Gila and Salt River Base and Meridian.

Being located at the intersection of Avenue B, and 48<sup>th</sup> Street [County 13].

NAD-1927- Coordinates (Arizona West Zone 0203)

Latitude 32°38'24.77857" North  
Longitude 114°39'00.22570" West  
Ellipsoid Height 5.067 survey feet, (or 1.544 meters)  
North 597,790.548 survey feet  
East 223,171.753 survey feet

NGVD-1929-Elevation

114.333 survey feet, (or 34.849 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°38'24.77855" North  
Longitude 114°39'00.22592" West  
Ellipsoid Height 5.068 survey feet, (or 1.545 meters)  
North 597,830.185 survey feet  
East 422,934.620 survey feet

NAVD-1988-Elevation

116.500 survey feet, (or 35.509 meters)

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

Previous Observation date:

Previous Observer:

Latest Observation Date: Friday, December 03, 2004.

Observer: Cryselles Uribe

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



BENCHMARK # 2264

Found a 3 inch diameter aluminum cap set in concrete with punch mark, and A.D.O.T. HIGHWAY DIV., in a hand hole approximately 4" below the asphalt road surface.

This is a Section ¼ Corner being the  
East ¼ Corner of Section 19, T9S, R23W;  
West ¼ Corner of Section 20, T9S, R23W, of the Gila and Salt River Base and Meridian.

Being located at the intersection of Avenue B and 52<sup>ND</sup> Street [County 13 ½].

NAD-1927- Coordinates (Arizona West Zone 0203)

Latitude 32°37'58.78570" North  
Longitude 114°38'59.89500" West  
Ellipsoid Height 4.102 survey feet, (or 1.250 meters)  
North 595,163.406 survey feet  
East 223,177.773 survey feet

NGVD-1929-Elevation

113.409 survey feet, (or 34.567 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'58.78580" North  
Longitude 114°38'59.89497" West  
Ellipsoid Height 4.107 survey feet, (or 1.252 meters)  
North 595,203.053 survey feet  
East 422,940.642 survey feet

NAVD-1988-Elevation

115.583 survey feet, (or 35.230meters)

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

Previous Observation date:

Previous Observer:

Latest Observation Date: Friday, December 03, 2004.

Observers: Cryselle Uribe

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



BENCHMARK # 2265

A P.K. Nail with Aluminum Tag LS 22767, was found on top of west edge of concrete canal, by Kevin Dahl. As per the Ponderosa Valley Estates Unit Number 5, Subdivision Plat, Book 17, Page # 61, Fee # 2001-01722, Dated 01/22/2001. Found a 12in. Nail with Brass Tag, LS 19329-COY on ground level. Set a 3in. diameter Brass Cap LS 19329-COY-2010, properly stamped. This being the Center 1/4 Corner of Section 6, T9S, R23W, of the Gila And Salt River Base And Meridian.

Located in the intersection of Ave. B 1/2 . and 28<sup>TH</sup> . St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°40'35.95560" North

Longitude 114°39'31.89382" West

Ellipsoid Height 10.512 US survey feet / 10.512 International feet / 3.20407 Meters.  
North 611,110.335 US survey feet. / 611,111.572 International feet.  
East 420,340.011 US survey feet. / 420,340.8517 International feet.

NAVD-1988-Elevation

121.80 US survey feet. / 121.80 International feet. / 37.12472 Meters.

These are the results of 30 min. Trimble 4800 RTK Observation with 2003 Geoid.  
Previous Observation Date: December 29, 2004 Previous Observer: Crystelle Uribe

NGVD-1929-Elevation

121.80 NAVD-1988

-2.15 Area Constant

119.65 US survey feet. / 119.65 International Feet. / 36.4694 Meters.

Latest Observation Date: December, 08, 2010 Greenwich Mean Time 06:07:23 PM.  
Epoch Date-1291831643  
Julian Date-2455539.2513  
Observer: Enrique S. Urbieto

Under the Direct Supervision of : Larry R. Dresden

Registered Land Surveyor  
Arizona License #19329  
California License # 5643



BENCHMARK # 2266

Found a 3-inch diameter aluminum cap in concrete, set in a hand hole approximately 4 inches below the asphalt road surface.

This is a Corner being the  
Southwest Corner of Section 20, T9S, R23W;  
Southeast Corner of section 19, T9S, R23W;  
Northeast Corner of Section 30, T9S, R23W;  
Northwest Corner of Section 29, T9S, R23W, of the Gila and Salt River Base and Meridian.

Being located at the intersection of Avenue B (Highway 95) and County 14<sup>th</sup> Street.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°37'32.57258"North  
Longitude 114°38'59.54078"West  
Ellipsoid Height 3.452 survey feet, (or 1.052 meters)  
North 592,513.990 survey feet  
East 223,185.620 survey feet

NGVD-1929-Elevation

112.806 survey feet, (or 34.383 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'32.57220"North  
Longitude 114°38'59.54098"West  
Ellipsoid Height 3.461 survey feet, (or 1.055 meters)  
North 592,553.588 survey feet  
East 422,948.450 survey feet

NAVD-1988-Elevation

114.984 survey feet, (or 35.047 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Tuesday, December 21, 2004.

Observer: Martin Sandoval.

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



BENCHMARK #2267

Set a new brass tag with the City of Yuma LS # 19329 with a 12 inch nail, directly on top of an existing brass tag without a PK nail. **FOUND REBAR WITH YOWELL CAP NO # EXACTLY 33' TO SOUTH.**

This is a Section ¼ Corner being the  
North ¼ Corner of Section 29, T9S, R23W;  
South ¼ Corner of Section 20, T9S, R23W, of the Gila and Salt River Base and Meridian

Being located on County 14<sup>th</sup> Street and Avenue A ½.

NAD-1927-Coordinates ( Arizona West Zone 0203)

Latitude 32°37'32.69093"N  
Longitude 114°38'28.57039"W  
Ellipsoid Height 3.931survey feet (or 1.198 meters)  
North 592,503.619survey feet  
East 225,834.390survey feet

NGVD-1929-Elevation

113.244 survey feet (or 34.517 meters)

NAD-1983- Coordinates (Arizona West Zone 0203)

Latitude 32°37'32.69105"N  
Longitude 114°38'28.57020"W  
Ellipsoid Height 3.931 survey feet (or 1.198 meters)  
North 592,543.248 survey feet  
East 425,597.254 survey feet

NAVD-1988-Elevation

115.415 survey feet (or 35.179 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Tuesday, December 21<sup>st</sup>, 2004.

Observer: Cryselle Uribe

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



BENCHMARK # 2268

YUMA GLOTRAC  
NGS PID DB0250

Found a drill hole in the center of a 3ft x 3ft steel plate. This steel plate is in the center of an 18ft x18ft concrete slab located atop a small hill.

Being located at the Marine Corps Air Station in Yuma, Arizona.

Permission needs to be acquired from MCAS prior to usage of this survey point. Suggest contacting Jose Rodriguez (MCAS surveyor) at 246-7068 to make escort arrangements onto the Military Base.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°39'10.91185" North  
Longitude 114°35'29.89173" West  
Ellipsoid Height 164.496 survey feet, or (50.139 meters)  
North 602,305.460 survey feet  
East 241,194.145 survey feet

NGVD-1929-Elevation

273.463 survey feet, or (83.352 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'10.91180" North  
Longitude 114°35'29.89203" West  
Ellipsoid Height 164.485 survey feet, or (50.132 meters)  
North 602,344.958 survey feet  
East 440,957.039 survey feet

NAVD-1988-Elevation

275.623 survey feet, or (84.010 meters)

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

Previous Observation date: Monday, February 11<sup>th</sup>, 2002.

Previous Observer: Louis Romero.

Latest Observation Date: Thursday, February 3<sup>rd</sup>, 2005.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor

Arizona License # 19329

California License # 5643



BENCHMARK # 2269  
MARIN No.1  
NGS PID-DB0251

Found a 3 3/4-inch diameter brass cap as a reference mark properly stamped with an arrow pointing to the west towards MARIN, set flush on the northeast corner of an 18ft x 18ft concrete slab atop a small hill.

Being located at the Marine Corps Air Station in Yuma, Arizona.

Permission needs to be acquired from MCAS prior to usage of this survey point. Suggest contacting Jose Rodriguez (MCAS surveyor) at 246-7068 to make escort arrangements onto the Military Base.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°39'10.97885" North  
Longitude 114°35'29.79184" West  
Ellipsoid Height 164.510 survey feet, or (50.143 meters)  
North 602,312.164 survey feet  
East 241,202.739 survey feet

NGVD-1929-Elevation

273.477 survey feet

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'10.97895" North  
Longitude 114°35'29.79214" West  
Ellipsoid Height 164.479 survey feet, or (50.133 meters)  
North 602,351.677 survey feet  
East 440,965.634 survey feet

NAVD-1988-Elevation

275.618 survey feet, or (84.009 meters)

These are the results of a 30-minute Trimble 4800 RTK observation.

Previous Observation Date:

Previous Observer:

Latest Observation Date: Thursday, February 3<sup>rd</sup>, 2005.

Observer: Martin Sandoval.

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



BENCHMARK # 2270  
MARIN No.2  
NGS PID-DB0252

Found a 3 3/4-inch diameter brass cap as a reference mark properly stamped with an arrow pointing to the north towards MARIN, set flush on the southwest corner of an 18ft x 18ft concrete slab atop a small hill.

Being located at the Marine Corps Air Station in Yuma, Arizona.

Permission needs to be acquired from MCAS prior to usage of this survey point. Suggest Contacting Jose Rodriguez (MCAS surveyor) at 246-7068 to make escort arrangements onto the Military Base.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude	32°39'10.83810" North
Longitude	114°35'29.98684" West
Ellipsoid Height	164.501 survey feet, or (50.140 meters)
North	602,298.072 survey feet
East	241,185.954 survey feet

NGVD-1929-Elevation

273.468 survey feet, or (83.353 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude	32°39'10.83820" North
Longitude	114°35'29.98698" West
Ellipsoid Height	164.475 survey feet, or (50.132 meters)
North	602,337.585 survey feet
East	440,948.862 survey feet

NAVD-1988-Elevation

275.613 survey feet, or (84.007 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation date: Thursday, February 3<sup>rd</sup>, 2005.

Observer: Martin Sandoval.

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



BENCHMARK # 2271

Found a 3in. brass cap, LS 22767-2012-no Company Name nor Base and Meridian, otherwise properly stamped, encased in concrete flush with asphalt. Found prior a 3in. Yuma County brass cap, properly stamped, flush with asphalt, destroyed by the reconstruction of Avenue C. This is the Northwest Corner of Section 19, T8S, R23W and the Northeast Corner of Section 24, T8S, R24W, of the Gila And Salt River Base And Meridian. And the South Section Line of Section 32, T16S, R22E, of the San Bernardino Base and Meridian.

Located on Ave. C, and Riverside Drive (on the North edge of the West Main Canal Bridge )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'19.15034" North

Longitude 114°40'02.83932" West

Ellipsoid Height 24.604 US Survey Feet / 24.604 International Feet / 7.4994 Meters.

North 627,656.5110 US Survey Feet. / 627,657.7663 International Feet.

East 417,838.1090 US Survey Feet. / 417,838.9447 International Feet.

NAVD-1988-Elevation

135.60 US Survey Feet. / 135.60 International Feet. / 41.3310 Meters.

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

Previous Observation Date: March 28, 2005 Previous Observer: Martin Sandoval.

NGVD-1929-Elevation

135.60 NAVD-1988

- 2.15 Area Constant

133.45 US Survey Feet. / 133.45 International Feet. / 40.6760 Meters.

Latest Observation Date: January 09, 2013 Greenwich Mean Time 04:41:13 PM.

Epoch Date - 1357749673

Julian Date - 2456302.19529

Observer: Enrique S. Urbieto and Louis Romero.

Under the Direct Supervision of :

Larry R. Dresden

Registered Land Surveyor

Arizona License #19329

California License # 5643



BENCHMARK # 2272

*Found 1/2" diameter rebar.*

**SET** Found a 3-inch diameter brass cap stamped "City of Yuma, T16S, R22E, S32, S33, SBB/M, T8S, R23W, S19, P.O.L., G/SRB/M, 2001, LS 19329" in concrete inside a 6-inch diameter PVC pipe.

This is a Section Corner being the  
Southeast Corner of Section 32, T16S, R22E;  
Southwest Corner of Section 33, T16S, R22E, of the San Bernardino Base and Meridian.

Being located at the south right of way line of Riverside Drive. *INTERSECTION OF FIBERDA*

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°43'19.93853" North  
Longitude 114°39'55.70378" West  
Ellipsoid Height 19.168 survey feet, (or 5.842 meters)  
North 627,660.862 survey feet  
East 218,685.006 survey feet

NGVD-1929-Elevation

128.042 survey feet, (or 39.027 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'19.93838" North  
Longitude 114°39'55.70370" West  
Ellipsoid Height 19.206 survey feet, (or 5.854 meters)  
North 627,70.518 survey feet  
East 418,448.124 survey feet

NAVD-1988-Elevation

130.225 survey feet, (or 39.693 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Monday, March 28, 2005.

Observer: Martin Sandoval.

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



BENCHMARK # 2273

Found a 3-inch diameter brass cap stamped "CITY OF YUMA, T16S, R22E, SBB/M, ¼, S32, T8S, R24W, S24, ~~P.O.E.~~, G/SRB/M, 2001, LS 19329", in concrete inside a 6-inch diameter PVC pipe. *A 1" diameter pipe prior.*

This is a Section ¼ Corner being the South ¼ Corner of Section 32, T16S, R22E, of the San Bernardino Base and Meridian.

Being located approximately 2 feet south of asphalt road edge at Riverside Drive and the canal bank.

NAD-1927- Coordinates (Arizona West Zone 0203)

Latitude 32°43'17.84734" North  
Longitude 114°40'36.27852" West  
Ellipsoid Height 18.205 survey feet, (or 5.549 meters)  
North 627,472.139 survey feet  
East 216,071.148 survey feet

NGVD-1929-Elevation

127.115 survey feet, (or 38.745 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'17.84731" North  
Longitude 114°40'26.27868" West  
Ellipsoid Height 18.177 survey feet, (or 5.540 meters)  
North 627,511.826 survey feet  
East 415,834.242 survey feet

NAVD-1988-Elevation

129.232 survey feet, (or 39.390 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Tuesday, March 29, 2005.

Observer: Martin Sandoval.

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



BENCHMARK # 2274

Found a 3-inch diameter brass cap stamped "CITY OF YUMA, T16S, R22E, SBBM, S31, S32, T8S, R24W, S24, GSRBM, 2000, LS19329", approximately 2 inches below the asphalt road surface. *A 1/2" diameter rebar prior.*

This is a Section Corner being the  
Southwest Corner of Section 32, T16S, R22E;  
Southeast Corner of Section 31, T16S, R22E, of the San Bernardino Base and Meridian.

Being located at the centerline of Riverside Drive and approximately 6 feet west of the centerline of Avenue D.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°41'56.75590" North  
Longitude 114°40'56.85340" West  
Ellipsoid Height 11.597 survey feet, (or 3.535 meters)  
North 627,283.600 survey feet  
East 213,457.246 survey feet

NGVD-1929-Elevation

120.542 survey feet, (or 36.741 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'15.75576" North  
Longitude 114°40'56.85325" West  
Ellipsoid Height 11.635 survey feet, (or 3.546 meters)  
North 627,323.296 survey feet  
East 413,220.365 survey feet

NAVD-1988-Elevation

122.724 survey feet, (or 37.406 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Tuesday, March 29, 2005.

Observer: Martin Sandoval.

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



BENCHMARK # 2275

*Found 2" diameter iron pipe.*

*Set* Found a 3-inch diameter brass cap stamped "CITY OF YUMA, T16S, R22E, S29, S30, S31, S32, SBB/M, 2001, LS19329", in concrete.

This is a Section corner being the  
Northwest Corner of Section 32, T16, R22E;  
Northeast Corner of Section 31, T16S, R22E,  
Southeast Corner of Section 30, T16S, R22E;  
Southwest Corner of Section 29, T16S, R22E, of the San Bernardino Base and Meridian.

Being located at the northwest corner of Avenue D and the Canal Bank.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°43'43.49166" North  
Longitude 114°40'57.15114" West  
Ellipsoid Height 23.925 survey feet, (or 7.292 meters)  
North 630,086.901 survey feet  
East 213,546.624 survey feet

NGVD-1929-Elevation

132.820 survey feet, (or 40.484 meters)

NAD-1983-Coordinate (Arizona West Zone 0203)

Latitude 32°43'43.49188" North  
Longitude 114°40'57.15107" West  
Ellipsoid Height 23.965 survey feet, (or 7.305 meters)  
North 630,126.633 survey feet  
East 413,219.557 survey feet

NAVD-1988-Elevation

135.00.3 survey feet, (or 41.149 meters)

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

Previous Observation Date:

Previous Observer

Latest Observation Date: Wednesday, March 30, 2005.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2276

Found a 1 inch diameter iron pipe as per Tom Yowell Survey on Canal Bank slope. Set a 3 inch diameter Brass Cap LS19329 – 2001, properly stamped in concrete inside a 6 inch PVC pipe. After reshaping of Canal Bank slope. Found, a 3 inch diameter Brass Cap encased in concrete, LS30348 with punch mark, properly stamped. This being the common Section Corner for Sections, 28,29, 32 and 34, T16S, R22E, of the San Bernardino, Base And Meridian.

Located approximately 1320.00 feet North of 1<sup>st</sup>. Street and 5.00 feet west of Figueroa Ave. pavement, on the North and alongside a power pole.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'43.50869" North

Longitude 114°39'55.48411" West

Ellipsoid Height 17.519 US survey feet / 17.519 International feet / 5.3398 meters.

North 630,082.520 US survey feet / 630,083.7802 International feet.

East 418,487.449 US survey feet / 418,488.286 International feet.

NAVD-1988-Elevation

128.41 US survey feet. / 128.41 International feet. / 39.1395 meters.

Note: This Elevation was obtained by setting a 12 inch nail SE of Brass Cap and occupied it for 30 min. RTK, transferring the elevation from it to the Brass Cap. EL. 128.41'

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

Previous Observation Date: March 30,2005 Previous Observer: Martin Sandoval

NGVD-1929-Elevation

128.41 NAVD 1988

-2.15 Area Constant

126.26 U.S. Survey Feet / 126.26 International Feet. / 38.48412 meters.

Latest Observation Date: Thursday, January 14, 2010 Greenwich Mean Time-04:55:11 PM.

Epoch Date-1263928721

Julian Date- 2455211.20499

Observer: Enrique S. Urbieta.

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



BENCHMARK # 2277

Found a 3-inch brass cap stamped "U.S. CADASTRAL SURVEY-BUREAU OF LAND MANAGEMENT, T16S, R22E, S29, S32, 1/4, 1960", in concrete inside a 6-inch diameter PVC pipe.

This is a Section 1/4 Corner being the  
North 1/4 Corner of Section 32, T16S, R22E;  
South 1/4 Corner of Section 29, T16S, R22E, of the San Bernardino Base and Meridian.

Being located approximately 8 feet west of a power pole by a farm road. *under mesquite tree.*

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°43'43.50268" North  
Longitude 114°40'26.31562" West  
Ellipsoid Height 15.573 survey feet, (or 4.747 meters)  
North 630,064.990 survey feet  
East 216,090.537 survey feet

NGVD-1929-Elevation

124.44 survey feet, (or 37.929 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'43.50260" North  
Longitude 114°40'26.31579" West  
Ellipsoid Height 15.569 survey feet, (or 4.745 meters)  
North 630,104.673 survey feet  
East 415,853.649 survey feet

NAVD-1988-Elevation

126.58 survey feet, (or 38.582 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Wednesday, March 30, 2005.

Observer: Martin Sandoval.

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



BENCHMARK # 2278

Found a 3-inch diameter brass cap stamped " U.S. CADASTRAL SURVEY, BUREAU OF LAND MANAGEMENT, S29, S30, 1959", in concrete inside a 6-inch diameter PVC pipe approximately 1 foot below the dirt road surface (with a metal survey lid on top).

This is a Section 1/16 Corner being the  
West 1/16 Corner of Section 29, T16S, R22E;  
East 1/16 Corner of Section 30, T16S, R22E, of the San Bernardino Base and Meridian.

Being located at the end of a dirt road centerline, *approximately, AVE. D, CO. 6<sup>3</sup>/<sub>4</sub> st.*

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32°43'56.55544" North  
Longitude 114°40'57.14913" West  
Ellipsoid Height 16.287 survey feet, (or 4.964 meters)  
North 631,407.174 survey feet  
East 213,468.189 survey feet

NGVD-1929-Elevation

125.161 survey feet, (or 38.149 meters)

NAD-1988-Coordinates (Arizona West Zone 0203)

Latitude 32°43'56.55551" North  
Longitude 114°40'57.14918" West  
Ellipsoid Height 16.252 survey feet, (or 4.954 meters)  
North 631,446.890 survey feet  
East 413,231.321 survey feet

NAVD-1988-Elevation

127.267 survey feet, (or 38.971 meters)

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

Previous Observation Date:

Previous Observer:

Latest Observation Date: Wednesday, March 30, 2005.

Observer: Martin Sandoval.

Under the Direct Supervision of: Larry R. Dresden

Registered Land Surveyor  
Arizona License # 19329  
California License # 5643



BENCHMARK # 2279

Found a 3in. brass cap, LS 22767-2012-no Company Name nor Base and Meridian, otherwise properly stamped, 5 inches below asphalt, in frame and cover. Found prior a 3in. Yuma County brass cap, in frame and cover, destroyed by the reconstruction of Avenue C. This is the West Quarter Corner of Section 19, T8S, R23W and the East Quarter Corner of Section 24, T8S, R24W, of the Gila And Salt River Base And Meridian.

Located on Ave. C, between 3<sup>rd</sup>. Place and 4<sup>th</sup>. Street

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°43'13.26754" North

Longitude 114°40'02.80805" West

Ellipsoid Height 16.401 US Survey Feet / 16.401 International Feet / 5.0001 Meters.

North 627,031.6290 US Survey Feet. / 627,032.8831 International Feet.

East 417,835.3770 US Survey Feet. / 417,836.2127 International Feet.

NAVD-1988-Elevation

127.40 US Survey Feet. / 127.40 International Feet. / 38.8316 Meters.

These are the results of 15 min. Trimble 5800 RTK Observation with 2003 Geoid.  
Previous Observation Date: April 01, 2005 Previous Observer: Martin Sandoval.

NGVD-1929-Elevation

127.40 NAVD-1988

- 2.15 Area Constant

125.25 US Survey Feet. / 125.25 International Feet. / 38.1763 Meters.

Latest Observation Date: January 09, 2013 Greenwich Mean Time 04:05:11 PM.

Epoch Date - 1357747511

Julian Date - 2456302.17027

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 # 2280

Set a 3 in. diameter. brass cap LS 19329-COY-2013 properly stamped, encased in concrete flush with asphalt on decking of A canal. This is the East Quarter Corner of Section 25, T9S, R23W, of the G. & S. R. B. & M.

Located on Ave. 4E. and 60<sup>th</sup> St. ( County 141/2 St. )

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°37'07.87436" North

Longitude 114°33'48.77579" West

Ellipsoid Height : 105.014 US Survey Feet / 105.014 International Feet / 32.00833 Meters.

North 589,842.8310 US Survey Feet / 589,844.0107 International Feet.

East 449,507.1180 US Survey Feet / 449,508.0170 International Feet.

NAVD-1988-Elevation

216.51 US Survey Feet. / 216.51 International Feet. / 65.99238 Meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

216.51 NAVD-1988

-2.15 Area Constant

214.36 US Survey Feet. / 214.36 International Feet / 65.33706 Meters.

Latest Observation Date: November 21, 2012 Greenwich Mean Time 3:17:26 PM.

Epoch Date- 1353511046

Julian Date- 2456253.13711

Observer: Enrique S. Urbieto, 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 # 2281

Found a 1/2in. diameter rebar, 19in. below asphalt. Set a frame and cover over it. This is the East Quarter Corner of Section 1, T10S, R23W, of the G. & S. R. B. & M.

Located on Ave. 4E. and 76<sup>th</sup> St. ( County 16 1/2 St. ) - West -

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°35'22.45274" North

Longitude 114°33'47.81977" West

Ellipsoid Height : 91.252 US Survey Feet / 91.252 International Feet / 27.81367 Meters.

North 579,187.9660 US Survey Feet / 579,189.1244 International Feet.

East 449,507.3930 US Survey Feet / 449,508.2920 International Feet.

NAVD-1988-Elevation

202.76 US Survey Feet. / 202.76 International Feet. / 61.8014 Meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

202.76 NAVD-1988

-2.15 Area Constant

200.61 US Survey Feet. / 200.61 International Feet / 61.1461 Meters.

Latest Observation Date: November 21, 2012 Greenwich Mean Time 5:00:37 PM.

Epoch Date- 1353517237

Julian Date- 2456253.20876

Observer: Enrique S. Urbieto, 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 # 2282

Found a 2in. diameter iron pipe, with nail in center, 10in. below asphalt. Set a frame and cover over it. This is the West Quarter Corner of Section 6, T10S, R22W, of the G. & S. R. B. & M.

Located on Ave. 4E. and 76<sup>th</sup> St. ( County 16 ½ St. ) - East -

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°35'20.69724" North

Longitude 114°33'47.80877" West

Ellipsoid Height : 91.538 US Survey Feet / 91.538 International Feet / 27.90084 Meters.

North 579,010.5430 US Survey Feet / 579,011.7010 International Feet.

East 449,506.9780 US Survey Feet / 449,507.8770 International Feet.

NAVD-1988-Elevation

203.25 US Survey Feet. / 203.25 International Feet. / 61.9508 Meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

203.25 NAVD-1988

-2.15 Area Constant

201.10 US Survey Feet. / 201.10 International Feet / 61.29541 Meters.

Latest Observation Date: November 21, 2012 Greenwich Mean Time 5:19:56 PM.

Epoch Date- 1353518396

Julian Date- 2456253.22218

Observer: Enrique S. Urbieto, 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 #2283

Found a railroad spike 2" below asphalt road.

This is assumed to be a Section Corner being the Southeast Corner of Section 30, T9S, R23W; Southwest Corner of Section 29, T9S, R23W; Northwest Corner of Section 32, T9S, R23W; Northeast Corner of Section 31, T9S, R23W, of the Gila and Salt River Base and Meridian.

Located at the intersection of Avenue B and the centerline of County 15<sup>th</sup> Street.

NAD-1927-Coordinates

Latitude 32°36'39.86743" North  
Longitude 114°38'59.37821" West  
Ellipsoid Height 78.039 survey feet  
North 587,187.376 survey feet  
East 223,154.400 survey feet

NAD-83-Coordinates

Latitude 32°36'39.86742" North  
Longitude 114°38'59.37825" West  
Ellipsoid Height 78.024 survey feet  
North 587,227.012 survey feet  
East 422,917.204 survey feet

NGVD-1929-Elevation

187.501 survey feet

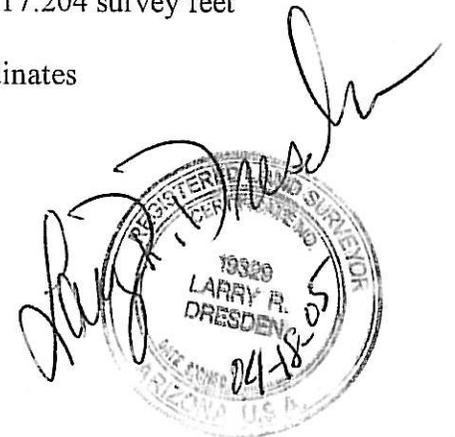
NAVD-1988-Coordinates

189.659 survey feet

Observation Date: Friday, April 15, 2005

Observer: Louis Romero & John Nye

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



PRECISION DISCLAIMER STATEMENT

Since this particular geodetic control point is situated outside of the Trimble Factory Designated 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 are situated on the City of Yuma's Datum, (NAD27/NGVD29), 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 precise vertical elevation of this particular geodetic survey control point when incorporating it into the City of Yuma's Datum, (NAD27/NGVD29).

BENCHMARK # 2284

Found prior a 3in. dia. brass cap U.S. Department of the Interior, Bureau of Land Management approximately 2ft. below ground. Found a 3in. dia. cap, BLM-1972, properly stamped, rotated East, 2ft. below ground, on the East edge of a concrete flood drain behind The Dunes Subdivision #3 and West of Dessert Hills Golf Course. This is the Center Quarter Corner of Section 8, T9S, R23W of the Gila And Salt River Base And Meridian.

Located at Ave. A 1/2 and 36<sup>th</sup> St. Alignment.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°39'43.72718" North

Longitude 114°38'29.43735" West

Ellipsoid Height 42.382 US Survey Feet / 42.382 International Feet / 12.91806 Meters.

North 605,786.5810 US Survey Feet. / 605,787.7926 International Feet.

East 425,634.1970 US Survey Feet. / 425,635.0483 International Feet.

NAVD-1988-Elevation

153.69 US Survey Feet. / 153.69 International Feet. / 46.84481 Meters.

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

Previous Observation Date: August 15, 2005

Previous Observer: John Nye and Martin Sandoval.

NGVD-1929-Elevation

153.69 NAVD-1988

- 2.15 Area Constant

151.54 US Survey Feet. / 151.54 International Feet. / 46.1895 Meters.

Latest Observation Date: April 01, 2014 Greenwich Mean Time 06:47:35 PM.

Epoch Date - 1396378055 Julian Date - 2456749.28304

Observer: Enrique S. Urbieta

BENCHMARK # 2285

In 1997 COY Survey Dept. found remains of a 2in. dia. badly rusted iron pipe, 1ft. below ground with, a B. of R. - 1961 brass cap properly stamped, laying beside it. 3ft. below ground and under the flanged old iron pipe was another 3in. dia. B. of R.-1941 brass cap properly stamped. Set a 3in. dia. brass cap over the 1941 brass cap, encased in concrete inside a frame and cover. Found a 3in. dia. brass cap LS 19329-COY-1997 properly stamped, encased in concrete, 15 inches below ground, in frame and cover. This is the South West Section Corner of Section 22, T8S, R23W, of the Gila And Salt River Base And Meridian.

Located at Arizona Ave. and 8<sup>th</sup> St.

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°42'47.06799" North

Longitude 114°36'57.75058" West

Ellipsoid Height 35.212 US Survey Feet / 35.212 International Feet / 10.73264 Meters.

North 624,251.0360 US Survey Feet. / 624,252.2845 International Feet.

East 433,623.7260 US Survey Feet. / 433,624.5932 International Feet.

NAVD-1988-Elevation

146.08 US Survey Feet. / 146.08 International Feet. / 44.5253 Meters.

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

Previous Observation Date: August 17, 2005 Previous Observer: John Nye.

NGVD-1929-Elevation

146.08 NAVD-1988

- 2.15 Area Constant

143.93 US Survey Feet. / 143.93 International Feet. / 43.86996 Meters.

Latest Observation Date: March 15, 2013 Greenwich Mean Time 04:10:06 PM.

Epoch Date - 1363363806

Julian Date - 2456367.17368

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 # 2286

STATION D8

DB0210

Found 4 inch diameter brass cap stamped U.S Coast & Geodetic Survey Benchmark  
with designation D8, PID DB0210, *NGS DATA SHEET*

Being located on the Northeast corner and East wall of the Del Sol Hotel approximately  
4 feet above sidewalk, at the intersection of 3<sup>rd</sup> Street-Gila Street.

NAD-1927-Coordinates (Arizona West Zone 0203)

Latitude 32° 43' 21.67019" North

Longitude 114° 36' 58.22615" West

Ellipsoid Height 27.105 survey feet, (or 8.262 meters)

North 627708.703 survey feet

East 233848.487 survey feet

NGVD-1929-Elevation

135.762 survey feet, (or 41.380 meters)

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32° 43' 21.67060" North

Longitude 114° 36' 58.22613" West

Ellipsoid Height 27.161 survey feet, (or 8.279 meters)

North 627748.302 survey feet

East 433611.598 survey feet

NAVD-1988-Elevation

137.970 survey feet, (or 42.053 meters)

Latest Observation Date: Thursday August 18, 2005

Observer: John Nye

Using Geoid 2003.

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



BENCHMARK # 2287

On Sept. 1985, Yuma County found a redwood post with PK nail on top, 3ft. below ground, according to YCHD Corner Records. Found a 3in. dia. brass cap, BLM-2006, properly stamped, encased in concrete, 2in. below asphalt. This is the SE. Corner of Section 1, T10S, R23W, of the G.& S. R. B.& M.

Located on Ave. 4E.and 80<sup>th</sup> St. ( County 17<sup>th</sup>. St. ) - West -

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°34'56.08714" North

Longitude 114°33'47.63835" West

Ellipsoid Height : 90.415 US Survey Feet / 90.415 International Feet / 27.55855 Meters.

North 576,523.2660 US Survey Feet / 576,524.4190 International Feet.

East 449,502.5450 US Survey Feet / 449,503.4440 International Feet.

NAVD-1988-Elevation

202.17 US Survey Feet. / 202.17 International Feet. / 61.7557 Meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

202.17 NAVD-1988

-2.15 Area Constant

200.02 US Survey Feet. / 200.02 International Feet / 60.96622 Meters.

Latest Observation Date: November 28, 2012 Greenwich Mean Time 3:20:25 PM.

Epoch Date- 1354116025

Julian Date- 2456260.13918

Observer: Enrique S. Urbieto, 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 # 2288

On Sept. 1985, Yuma County found a 2 1/2in. iron pipe, according to YCHD Corner Records. Found a 3in. dia. brass cap, BLM-2006, properly stamped, encased in concrete, 8 inches above ground . This is the SW. Corner of Section 6, T10S, R22W, of the G.& S. R. B.& M.

Located on Ave. 4E.and 80<sup>th</sup> St. ( County 17<sup>th</sup>. St. ) - East -

NAD-1983-Coordinates (Arizona West Zone 0203)

Latitude 32°34'54.55677" North

Longitude 114°33'47.62626" West

Ellipsoid Height : 91.871 US Survey Feet / 91.871 International Feet / 28.00234 Meters.

North 576,368.5940 US Survey Feet / 576,369.7467 International Feet.

East 449,502.3970 US Survey Feet / 449,503.2960 International Feet.

NAVD-1988-Elevation

203.63 US Survey Feet. / 203.63 International Feet. / 62.06655 Meters.

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

Previous Observation Date: Previous Observer:

NGVD-1929-Elevation

203.63 NAVD-1988

-2.15 Area Constant

201.48 US Survey Feet. / 201.48 International Feet / 61.41123 Meters.

Latest Observation Date: November 28, 2012 Greenwich Mean Time 3:54:29 PM.

Epoch Date- 1354118069

Julian Date- 2456260.16284

Observer: Enrique S. Urbieto, 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

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