# WESTERN HIGHLINE CANAL

# FCD1999C063

# ASSIGNMENT # 2

# SURVEY DATA

TOTALLY DIGITAL
COOPER AERIAL
MAPPING TECHNOLOGY
SINCE 1966

Stanley Consultants INC.
A Stanley Group Company
Engineering, Environmental and Construction Services - Worldwide

Property of
Flood Control District of M... y
Please Return to
2801 W. Durango
Phoenix, AZ 85009

# Western Highline Canal
# Surveying Control Strategy

The Project for aerial mapping to be survey by Stanley Consultants lies generally south of Southern Ave extending to Pecos Avenue to the south, and from the I 17 freeway and extends eastward to Rural Road, although in a small section the mapping extends to Price Road.

## Approach

The general size and shape of the project lends itself to incorporate static GPS surveying methods as a way to establish control networks into the project. The project was broken down into a north and south halves with a static network performed for each half. Each network used common points along the center of the project to tie the networks together. Using 3 GPS receivers, and incorporating quick static field procedures, we were able to perform the required quality tests, loop closure checks and adjustments.

## Results

Using the control networks, we then incorporate real-time GPS surveying. By using NGS monuments and static network points, we are able to obtain a very accurate real time GPS localization. After localization, we preceded to collect the aerial panel locations.

## Control

Horizontal Datum: NAD 83
Vertical Datum: NAVD 29

| NGS Points | Type of Control |
|---|---|
| CELE | Horizontal |
| COT 3 | Horizontal |
| 360-D | Vertical |
| SGT 38 | Vertical |
| P19C | Horizontal |
| COT 4 | Horizontal |
| CHAN | Vertical |

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
21780
CLYDE J.
McCARTY
Date Signed 10/9/00
ARIZONA, U.S.A.

2929 East Camelback Road, Suite 130 • Phoenix, AZ 85016-4425 • phone 602.912.6500 • fax 602.912.6599
email: info@stanleygroup.com • internet: www.stanleygroup.com

**WESTERN HIGHLINE CANAL**

**DATUMS:**
HORIZONTAL: NAD 83, State Plane Coordinates
**VERTICAL:** NAVD 29

| | |
|---|---|
| GRID SCALE FACTOR | 0.999900138 |
| SEA LEVEL FACTOR | 0.999942948 |
| COMBINED SCALE FACTOR | 1.000156932 |

**GRID COORDS**

| POINT | NORTHING | EASTING | ELEV (M) | GRID SCALE |
|---|---|---|---|---|
| 500 | 860435.5538 | 694059.7084 | 362.743 | 0.99990004 |
| 1003 | 867965.3945 | 702335.6444 | 362.746 | 0.999900006 |
| 1002 | 846647.1812 | 688478.1041 | 364.556 | 0.999900152 |
| 1001 | 865139.0646 | 682474.6806 | 369.863 | 0.999900352 |
| 1004 | 870503.5163 | 691852.8453 | 356.601 | 0.999900076 |
| 29 | 857129.2738 | 706355.5154 | 362.412 | 0.999900047 |
| 57 | 857403.2672 | 683346.1783 | 390.048 | 0.999900318 |
| 1006 | 845325.6817 | 707460.3152 | 361.202 | 0.999900063 |
| 56 | 836127.9228 | 689470.8017 | 352.987 | 0.999900127 |
| 1005 | 838002.7532 | 700376.2054 | 358.42 | 0.9999 |
| 53 | 836046.4998 | 682832.4704 | 357.599 | 0.999900337 |
| 1007 | 838583.8322 | 682908.0495 | 368.8659 | |

**GROUND COORDS**

| POINT | NORTHING | EASTING | ELEV (FT) |
|---|---|---|---|
| 500 | 860570.584 | 694168.6289 | 1190.101706 |
| 1003 | 868101.6064 | 702445.8636 | 1190.111549 |
| 1002 | 846780.0476 | 688586.1486 | 1196.049869 |
| 1001 | 865274.833 | 682581.783 | 1213.461286 |
| 1004 | 870640.1265 | 691961.4194 | 1169.950787 |
| 29 | 857263.7852 | 706466.3655 | 1189.015748 |
| 57 | 857537.8216 | 683453.4175 | 1279.685039 |
| 1006 | 845458.3407 | 707571.3387 | 1185.045932 |
| 56 | 836259.1384 | 689579.002 | 1158.093832 |
| 1005 | 838134.263 | 700486.1171 | 1175.918635 |
| 53 | 836177.7026 | 682939.629 | 1173.225066 |
| 1007 | 838715.4332 | 683015.2199 | 1210.189961 |

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
21780
CLYDE J.
McCARTY
Date Signed 10/9/20
ARIZONA, U.S.A.

SO.CR5 03/27/00 07:13:29

| Point | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 1 | 5,000.0000 | 5,000.0000 | 100.00 | START |
| 33 | 852,486.7349 | 682,900.2506 | 1,251.03 | PP 33 |
| 34 | 853,061.8698 | 690,719.5486 | 1,196.19 | PP 34 |
| 35 | 853,045.2121 | 697,798.4973 | 1,177.65 | PP35 |
| 36 | 851,141.9007 | 687,430.8147 | 1,213.23 | PP 36 |
| 37 | 850,562.5180 | 694,030.9780 | 1,178.62 | PP37 |
| 38 | 850,748.2623 | 696,917.7269 | 1,178.16 | PP 38 |
| 39 | 848,520.0648 | 682,844.1891 | 1,237.28 | PP39 |
| 40 | 848,353.6418 | 686,633.2085 | 1,212.47 | PP40 |
| 41 | 848,085.4629 | 690,658.1248 | 1,187.25 | PP41 |
| 42 | 848,591.3347 | 694,330.4203 | 1,174.69 | PP42 |
| 43 | 846,563.7249 | 686,691.3735 | 1,205.21 | PP43 |
| 44 | 846,674.7188 | 693,307.2861 | 1,173.63 | PP44 |
| 45 | 843,781.9558 | 682,599.1406 | 1,221.70 | PP45 |
| 46 | 844,490.1740 | 690,512.9915 | 1,177.86 | PP46 |
| 47 | 842,192.1594 | 682,937.8201 | 1,210.56 | PP47 |
| 48 | 842,130.3653 | 686,611.4057 | 1,186.62 | PP48 |
| 49 | 842,060.5430 | 690,266.7612 | 1,171.50 | PP49 |
| 50 | 842,972.0275 | 692,697.2218 | 1,168.48 | PP50 |
| 51 | 840,267.8802 | 682,954.5344 | 1,196.37 | PP51 |
| 52 | 839,972.4128 | 689,552.8901 | 1,165.95 | PP52 |
| 54 | 837,755.8485 | 686,898.9318 | 1,165.36 | PP54 |
| 55 | 836,150.2102 | 686,805.4460 | 1,159.76 | PP55 |

NORTHPAN.CR5 03/27/00 14:12:42

| Point | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 1 | 870,572.5592 | 681,751.0787 | 1,160.21 | PP1 |
| 2 | 870,594.0253 | 685,615.8993 | 1,163.26 | PP2 |
| 3 | 870,597.8662 | 689,859.4519 | 1,163.86 | PP3 |
| 4 | 870,073.5015 | 692,149.8718 | 1,168.55 | PP4 |
| 5 | 867,389.4653 | 681,556.6526 | 1,184.80 | PP5 |
| 6 | 867,169.4623 | 683,396.7598 | 1,189.03 | PP6 |
| 7 | 868,243.7877 | 686,603.9678 | 1,182.87 | PP7 |
| 8 | 868,254.8906 | 690,545.4228 | 1,168.41 | PP8 |
| 9 | 867,632.6924 | 693,881.6246 | 1,172.76 | PP9 |
| 10 | 867,070.0554 | 691,840.3903 | 1,173.20 | PP10 |
| 11 | 865,679.9223 | 690,777.4703 | 1,183.41 | PP11 |
| 12 | 864,335.9761 | 686,896.2650 | 1,210.99 | PP12 |
| 13 | 863,725.2777 | 690,639.4265 | 1,189.70 | PP13 |
| 14 | 863,699.6352 | 694,519.5120 | 1,175.74 | PP14 |
| 15 | 863,692.4327 | 697,395.0080 | 1,179.88 | PP15 |
| 16 | 861,522.8557 | 694,605.6800 | 1,179.30 | PP16 |
| 17 | 859,535.5812 | 683,938.1682 | 1,285.12 | PP17 |
| 18 | 859,806.0708 | 686,882.4728 | 1,235.18 | PP18 |
| 19 | 859,039.4325 | 690,684.0946 | 1,197.00 | PP19 |
| 20 | 859,294.1919 | 694,296.5325 | 1,182.12 | PP20 |
| 21 | 860,676.2531 | 696,768.5918 | 1,182.07 | PP21 |
| 22 | 860,437.7098 | 700,694.5034 | 1,186.11 | PP22 |
| 23 | 860,342.2079 | 705,299.4219 | 1,189.61 | PP23 |
| 24 | 860,639.3730 | 707,425.8725 | 1,192.60 | PP24 |
| 25 | 857,433.9102 | 690,273.2354 | 1,202.94 | PP25 |
| 26 | 857,919.1713 | 696,754.1840 | 1,180.95 | PP26 |
| 27 | 857,129.1802 | 698,522.5501 | 1,183.14 | PP27 |
| 28 | 856,948.3209 | 703,262.5982 | 1,185.66 | PP28 |
| 29 | 857,106.7472 | 707,220.3913 | 1,191.03 | PP29 |
| 30 | 855,038.7211 | 686,091.8288 | 1,233.31 | PP30 |
| 31 | 855,074.0548 | 690,642.7983 | 1,198.41 | PP31 |
| 32 | 855,163.1723 | 694,101.6076 | 1,182.15 | PP32 |

survey- deletable, cooper aerial panel

Project: cooprpan Wed Jun 07 12:56:00 2000
Point statistics:
Starting point number: 1
Current point number: 1008 ('L' indicates locked point)

Current Coordinate Listing (All)

| Point | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 1 | 870572.5592 | 681751.0787 | 1160.21 | PP1 |
| 2 | 870594.0253 | 685615.8993 | 1163.26 | PP2 |
| 3 | 870597.8662 | 689859.4520 | 1163.86 | PP3 |
| 4 | 870073.5015 | 692149.8718 | 1168.55 | PP4 |
| 5 | 867389.4653 | 681556.6526 | 1184.80 | PP5 |
| 6 | 867169.4623 | 683396.7598 | 1189.03 | PP6 |
| 7 | 868243.7877 | 686603.9678 | 1182.87 | PP7 |
| 8 | 868254.8906 | 690545.4228 | 1168.41 | PP8 |
| 9 | 867632.6924 | 693881.6246 | 1172.76 | PP9 |
| 10 | 867070.0554 | 691840.3903 | 1173.20 | PP10 |
| 11 | 865679.9223 | 690777.4703 | 1183.41 | PP11 |
| 12 | 864335.9761 | 686896.2650 | 1210.99 | PP12 |
| 13 | 863725.2777 | 690639.4265 | 1189.70 | PP13 |
| 14 | 863699.6352 | 694519.5120 | 1175.74 | PP14 |
| 15 | 863692.4327 | 697395.0080 | 1179.88 | PP15 |
| 16 | 861522.8557 | 694605.6800 | 1179.30 | PP16 |
| 17 | 859535.5812 | 683938.1682 | 1285.12 | PP17 |
| 18 | 859806.0708 | 686882.4728 | 1235.18 | PP18 |
| 19 | 859039.4325 | 690684.0946 | 1197.00 | PP19 |
| 20 | 859294.1919 | 694296.5325 | 1182.12 | PP20 |
| 21 | 860676.2531 | 696768.5918 | 1182.07 | PP21 |
| 22 | 860437.7098 | 700694.5034 | 1186.11 | PP22 |
| 23 | 860342.2079 | 705299.4219 | 1189.61 | PP23 |
| 24 | 860639.3730 | 707425.8725 | 1192.60 | PP24 |
| 25 | 857433.9102 | 690273.2354 | 1202.94 | PP25 |
| 26 | 857919.1713 | 696754.1840 | 1180.95 | PP26 |
| 27 | 857129.1802 | 698522.5501 | 1183.14 | PP27 |
| 28 | 856948.3209 | 703262.5982 703152.2048 | 1185.66 | PP28 |
| 29 | 857106.7472 | 707220.3913 | 1191.03 | PP29 |
| 30 | 855038.7211 | 686091.8288 | 1233.31 | PP30 |
| 31 | 855074.0548 | 690642.7983 | 1198.41 | PP31 |
| 32 | 855163.1723 | 694101.6076 | 1182.15 | PP32 |
| 33 | 852486.7349 | 682900.2506 | 1251.03 | PP 33 |
| 34 | 853061.8698 | 690719.5486 | 1196.19 | PP 34 |
| 35 | 853045.2121 | 697798.4973 | 1177.65 | PP35 |
| 36 | 851141.9007 | 687430.8148 | 1213.23 | PP 36 |
| 37 | 850562.5180 | 694030.9780 | 1178.62 | PP37 |
| 38 | 850748.2623 | 696917.7269 | 1178.16 | PP 38 |
| 39 | 848520.0648 | 682844.1891 | 1237.28 | PP39 |
| 40 | 848353.6418 | 686633.2085 | 1212.47 | PP40 |
| 41 | 848085.4629 | 690658.1248 | 1187.25 | PP41 |
| 42 | 848591.3347 | 694330.4203 | 1174.69 | PP42 |
| 43 | 846563.7249 | 686691.3734 | 1205.21 | PP43 |
| 44 | 846674.7188 | 693307.2861 | 1173.63 | PP44 |
| 45 | 843781.9558 | 682599.1406 | 1221.70 | PP45 |

| | | | | |
|---|---|---|---|---|
| 46 | 844490.1740 | 690512.9915 | 1177.86 | PP46 |
| 47 | 842192.1594 | 682937.8201 | 1210.56 | PP47 |
| 48 | 842130.3653 | 686611.4057 | 1186.62 | PP48 |
| 49 | 842060.5430 | 690266.7612 | 1171.50 | PP49 |
| 50 | 842972.0275 | 692697.2218 | 1168.48 | PP50 |
| 51 | 840267.8802 | 682954.5344 | 1196.37 | PP51 |
| 52 | 839972.4128 | 689552.8901 | 1165.95 | PP52 |
| 53 | 836177.7026 | 682939.6290 | 1173.23 | pp53 |
| 54 | 837755.8485 | 686898.9318 | 1165.36 | PP54 |
| 55 | 836150.2102 | 686805.4460 | 1159.76 | PP55 |
| 56 | 836259.1384 | 689579.0020 | 1158.09 | pp56 |
| 57 | 857537.8216 | 683453.4175 | 1279.69 | pp57 |
| 500 | 860570.5840 | 694168.6289 | 1190.10 | set base pnt |
| 1001 | 865274.8330 | 682581.7830 | 1213.46 | ngs h cele |
| 1002 | 846780.0476 | 688586.1486 | 1196.05 | ngs h cot3 |
| 1003 | 868101.6064 | 702445.8636 | 1190.11 | ngs v 360-d |
| 1004 | 870640.1265 | 691961.4194 | 1169.95 | ngs v sgt138 |
| 1005 | 838134.2630 | 700486.1171 | 1175.92 | ngs h p19c |
| 1006 | 845458.3407 | 707571.3387 | 1185.05 | ngs h cot4 |
| 1007 | 838715.4332 | 683015.2199 | 1210.19 | ngs v chan |
| 1029 | 857263.7852 | 706466.3655 | 1189.02 | set control nail |

```
AC6799  DESIGNATION -  P19 C
AC6799  PID         -  AC6799
AC6799  STATE/COUNTY-  AZ/MARICOPA
AC6799  USGS QUAD   -  GUADALUPE (1991)
AC6799
AC6799                        *CURRENT SURVEY CONTROL
AC6799
AC6799* NAD 83(1992)-  33 18 13.07845(N)    111 54 55.56710(W)     ADJUSTED
AC6799* NAVD 88     -       358.96   (meters)    1177.7    (feet)  GPS OBS
AC6799
AC6799  X           -  -1,991,721.314 (meters)                     COMP
AC6799  Y           -  -4,950,708.139 (meters)                     COMP
AC6799  Z           -   3,482,332.941 (meters)                     COMP
AC6799  LAPLACE CORR-          -1.03  (seconds)                    DEFLEC99
AC6799  ELLIP HEIGHT-         329.18  (meters)                     GPS OBS
AC6799  GEOID HEIGHT-         -29.78  (meters)                     GEOID99
AC6799
AC6799  HORZ ORDER  -  FIRST
AC6799  ELLP ORDER  -  THIRD     CLASS I
AC6799
AC6799.This mark is at Stellar Airpark  (P19)
AC6799
AC6799.The horizontal coordinates were established by GPS observations
AC6799.and adjusted by the National Geodetic Survey in March 1997.
AC6799
AC6799.The orthometric height was determined by GPS observations.
AC6799
AC6799.GPS derived orthometric heights for airport stations designated as
AC6799.PACS or SACS are published to 2 decimal places.  This maintains
AC6799.centimeter relative accuracy between the PACS and SACS.  It does
AC6799.not indicate centimeter accuracy relative to other marks which are
AC6799.part of the NAVD 88 network.
AC6799
AC6799.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AC6799
AC6799.The Laplace correction was computed from DEFLEC99 derived deflections.
AC6799
AC6799.The ellipsoidal height was determined by GPS observations
AC6799.and is referenced to NAD 83.
AC6799
AC6799.The geoid height was determined by GEOID99.
AC6799
AC6799;                    North         East     Units   Scale       Converg.
AC6799;SPC AZ C     -   255,423.239   213,474.667   MT  0.99990000 +0 00 02.4
AC6799;UTM  12      - 3,685,322.380   414,776.510   MT  0.99968955 -0 30 09.6
AC6799
AC6799:                Primary Azimuth Mark                      Grid Az
AC6799:SPC AZ C     -  P19 A                                     186 45 25.0
AC6799:UTM  12      -  P19 A                                     187 15 37.0
AC6799
AC6799|-----------------------------------------------------------------------|
AC6799| PID    Reference Object                     Distance       Geod. Az   |
AC6799|                                                          dddmmss.s  |
AC6799| AC6797 P19 A                              APPROX. 0.6 KM 1864527.4   |
AC6799|-----------------------------------------------------------------------|
AC6799
AC6799                         SUPERSEDED SURVEY CONTROL
AC6799
AC6799.No superseded survey control is available for this station.
AC6799
AC6799_MARKER: DD = SURVEY DISK
AC6799_SETTING: 17 = SET INTO TOP OF METAL PIPE DRIVEN INTO GROUND
AC6799_STAMPING: P19 C 1996
AC6799_PROJECTION: FLUSH
AC6799_MAGNETIC: N = NO MAGNETIC MATERIAL
```

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AC6799_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AC6799+STABILITY: SURFACE MOTION
AC6799_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AC6799+SATELLITE: SATELLITE OBSERVATIONS - May 07, 1997
AC6799_ROD/PIPE-DEPTH: 1.0  meters
AC6799
AC6799  HISTORY     - Date     Condition        Recov. By
AC6799  HISTORY     - 1996     MONUMENTED       CHANCE
AC6799  HISTORY     - 19970507 GOOD             NGS
AC6799
AC6799                          STATION DESCRIPTION
AC6799
AC6799'DESCRIBED BY JE CHANCE AND ASSOCIATES 1996 (SDC)
AC6799'THE STATION IS LOCATED APPROXIMATELY 7.4 KM (4.60 MI) SOUTH OF TEMPE
AC6799'IN THE TOWN OF CHANDLER AT STELLAR AIRPARK.  OWNERSHIP -- STELLAR
AC6799'AVIATION, DEE NEIL - MANAGER, PHONE (602) 961-9050 TO REACH THE
AC6799'STATION FROM THE JUNCTION OF US HIGHWAY 60 AND MCCLINTOCK DRIVE IN
AC6799'TEMPE (EXIT 175 ON US HIGHWAY 60) , PROCEED SOUTH ON MCCLINTOCK DRIVE
AC6799'FOR 8.8 KM (5.45 MI) TO THE JUNCTION WITH CHANDLER BOULEVARD.  TRUN
AC6799'RIGHT AND GO WEST ON CHANDLER BOULEVARD FOR 0.65 KM (0.40 MI) TO THE
AC6799'JUNCTION WITH STELLAR PARKWAY ON THE LEFT. TURN LEFT AND PROCEED SOUTH
AC6799'ON STELLAR PARKWAY FOR 0.7 KM (0.45 MI) TO THE PLANE SHELTER.  TURN
AC6799'LEFT AND GO EAST FOR 0.15 KM (0.10 MI) TO THE STELLAR AVIATION
AC6799'ADMINISTRATION BUILDING AND FIELD ENTRANCE. CONTINUE EAST TO THE
AC6799'JUNCTION WITH THE WEST TAXIWAY.  TURN LEFT AND PROCEED NORTH ON THE
AC6799'WEST TAXIWAY FOR 0.5 KM (0.30 MI) TO THE END OF THE TAXIWAY.  TURN
AC6799'RIGHT AND GO EAST CROSSING THE APPROACH END OF RUNWAY 17 TO THE
AC6799'JUNCTION WITH THE EAST TAXIWAY AND THE STATION ON THE RIGHT BETWEEN
AC6799'THE EAST TAXIWAY AND RUNWAY 17-35 THE STATION IS THE CENTER OF A 5 CM
AC6799'SURVEY DISK SET INTO THE TOP OF A 1.0 M (3.3 FT) LONG FENO PIPE,
AC6799'RECESSED 15 CM BELOW GROUND LEVEL AND ENCASED IN A 12.7 CM DIA PVC
AC6799'PIPE WITH NGS LOGO CAP SURROUNDED BY CONCRETE.  THE LOGO CAP AND
AC6799'CONCRETE ARE SET FLUSH WITH THE GROUND. THREE CIRCULAR ANCHOR PRONGS
AC6799'EXTEND FROM THE BOTTOM OF THE PIPE.  THE STATION IS LOCATED 24.10 M
AC6799'(79.07 FT) EAST OF THE EAST EDGE OF RUNWAY 17-35, 6.40 M (21.00 FT)
AC6799'WEST OF THE WEST EDGE OF THE EAST TAXIWAY, 49.90 M (163.71 FT)
AC6799'SOUTH-SOUTHEAST OF THE EASTERNMOST THRESHOLD LIGHT, 7.75 M (25.43 FT)
AC6799'EAST OF THE CENTER OF A CEMENT DRAIN, 28.20 M (92.52 FT) NORTH OF
AC6799'VISUAL APPROACH SLOPE INDICATOR (VASI) LIGHTS, 28.10 M (92.19 FT)
AC6799'SOUTH OF THE CENTERLINE OF THE EAST-WEST TAXIWAY LEADING EAST FROM THE
AC6799'APPROACH END OF RUNWAY 17, AND 0.9 M (3.0 FT) EAST OF A CARSONITE
AC6799'WITNESS POST THE STATION IS DESIGNATED AS A SECONDARY AIRPORT CONTROL
AC6799'STATION (SACS) - ARIZONA ANA SURVEYS 1996
AC6799
AC6799                          STATION RECOVERY (1997)
AC6799
AC6799'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (ED)
AC6799'RECOVERED AS DESCRIBED.
1        National Geodetic Survey,   Retrieval Date = FEBRUARY 29, 2000
AI1915 ***********************************************************************
AI1915  DESIGNATION -  CELE
AI1915  PID         -  AI1915
AI1915  STATE/COUNTY-  AZ/MARICOPA
AI1915  USGS QUAD   -  TEMPE (1986)
AI1915
AI1915                          *CURRENT SURVEY CONTROL
AI1915
AI1915* NAD 83(1992)-  33 22 41.52734(N)    111 58 26.68022(W)     ADJUSTED
AI1915* NAVD 88     -      370.4    (meters)    1215.     (feet)   GPS OBS
AI1915
AI1915  X           -  -1,995,089.925 (meters)                     COMP
AI1915  Y           -  -4,944,460.265 (meters)                     COMP
AI1915  Z           -   3,489,248.909 (meters)                     COMP
AI1915  LAPLACE CORR-          -0.09  (seconds)                    DEFLEC99
AI1915  ELLIP HEIGHT-         340.65  (meters)                     GPS OBS
```

1

Line to Cole Los Cerros

Ed.

```
AI1915  GEOID HEIGHT-         -29.69 (meters)                    GEOID99
AI1915
AI1915  HORZ ORDER  -  A
AI1915  ELLP ORDER  -  FIRST     CLASS I
AI1915
AI1915.The horizontal coordinates were established by GPS observations
AI1915.and adjusted by the National Geodetic Survey in September 1999.
AI1915
AI1915.The orthometric height was determined by GPS observations.
AI1915
AI1915.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AI1915
AI1915.The Laplace correction was computed from DEFLEC99 derived deflections.
AI1915
AI1915.The ellipsoidal height was determined by GPS observations
AI1915.and is referenced to NAD 83.
AI1915
AI1915.The geoid height was determined by GEOID99.
AI1915
AI1915;                    North         East     Units   Scale      Converg.
AI1915;SPC AZ C     -   263,694.387   208,018.283   MT  0.99990035 -0 01 53.7
AI1915;UTM  12      - 3,693,639.487   409,394.173   MT  0.99970121 -0 32 09.4
AI1915
AI1915                          SUPERSEDED SURVEY CONTROL
AI1915
AI1915.No superseded survey control is available for this station.
AI1915
AI1915_MARKER: DD = SURVEY DISK
AI1915_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AI1915_MAGNETIC: N = NO MAGNETIC MATERIAL
AI1915_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AI1915+STABILITY: SURFACE MOTION
AI1915_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AI1915+SATELLITE: SATELLITE OBSERVATIONS - February 04, 1999
AI1915
AI1915  HISTORY     - Date     Condition        Recov. By
AI1915  HISTORY     - UNK      MONUMENTED       AZ0490
AI1915  HISTORY     - 19990204 GOOD             AZ0420
AI1915
AI1915                          STATION DESCRIPTION
AI1915
AI1915'DESCRIBED BY CITY OF SCOTTSDALE ARIZONA 1999 (DLE)
AI1915'THE STATION IS LOCATED IN THE WEST PART OF TEMPE, ABOUT 0.75 MI (1.21
AI1915'KM) SOUTHWEST OF THE JUNCTION OF INTERSTATE HIGHWAY 10 AND STATE
AI1915'HIGHWAY 60 (SUPERSTITION FREEWAY), AT THE CENTERLINE INTERSECTION OF
AI1915'BASELINE ROAD AND S. CALLE LOS CERROS. OWNERSHIP--CITY OF TEMPE.  TO
AI1915'REACH THE STATION FROM THE INTERSECTION OF MILL AVENUE AND 5TH STREET
AI1915'IN TEMPE, GO SOUTH FOR 3.2 MI (5.1 KM) ON MILL AVENUE TO BASELINE
AI1915'ROAD.  TURN RIGHT AND GO WEST FOR 2.0 MI (3.2 KM) ON BASELINE ROAD TO
AI1915'THE JUNCTION OF CALLE LOS CERROS AND THE STATION.  THE STATION IS
AI1915'RECESSED 14 CM BELOW GROUND.  LOCATED 164.46 FT (50.13 M) WEST FROM
AI1915'THE MEDIAN CURB, 101.86 FT (31.05 M) NORTHWEST FROM A POWER BOX, 86.23
AI1915'FT (26.28 M) SOUTHEAST FROM THE NORTHWEST CORNER OF CURB, 84.63 FT
AI1915'(25.80 M) SOUTHWEST FROM A FIRE HYDRANT AND 41.36 FT (12.61 M) NORTH
AI1915'FROM THE SOUTH CURB OF BASELINE ROAD. ACCESS TO THE STATION IS THROUGH
AI1915'A HAND HOLE.
1        National Geodetic Survey,   Retrieval Date = FEBRUARY 29, 2000
AI1918 ***********************************************************************
AI1918  DESIGNATION -  COT3
AI1918  PID         -  AI1918
AI1918  STATE/COUNTY-  AZ/MARICOPA
AI1918  USGS QUAD   -  GUADALUPE (1991)
AI1918
AI1918                          *CURRENT SURVEY CONTROL
AI1918
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① Warner & Hardy

Fd. COTT, BC

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AI1918* NAD 83(1992)-  33 19 38.58936(N)    111 57 15.80151(W)     ADJUSTED
AI1918* NAVD 88     -       365.0    (meters)    1198.     (feet)  GPS OBS
AI1918
AI1918  ____________________________________________________________________
AI1918  X           -  -1,994,547.617 (meters)                     COMP
AI1918  Y           -  -4,948,015.484 (meters)                     COMP
AI1918  Z           -   3,484,537.902 (meters)                     COMP
AI1918  LAPLACE CORR-          -1.01  (seconds)                    DEFLEC99
AI1918  ELLIP HEIGHT-         335.27  (meters)                     GPS OBS
AI1918  GEOID HEIGHT-         -29.73  (meters)                     GEOID99
AI1918
AI1918  HORZ ORDER  -  A
AI1918  ELLP ORDER  -  FIRST     CLASS I
AI1918
AI1918.The horizontal coordinates were established by GPS observations
AI1918.and adjusted by the National Geodetic Survey in September 1999.
AI1918
AI1918.The orthometric height was determined by GPS observations.
AI1918
AI1918.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AI1918
AI1918.The Laplace correction was computed from DEFLEC99 derived deflections.
AI1918
AI1918.The ellipsoidal height was determined by GPS observations
AI1918.and is referenced to NAD 83.
AI1918
AI1918.The geoid height was determined by GEOID99.
AI1918
AI1918;                     North         East     Units   Scale      Converg.
AI1918;SPC AZ C     -   258,058.061   209,848.126   MT  0.99990015 -0 01 14.6
AI1918;UTM  12      - 3,687,988.418   411,174.008   MT  0.99969728 -0 31 27.8
AI1918
AI1918                          SUPERSEDED SURVEY CONTROL
AI1918
AI1918.No superseded survey control is available for this station.
AI1918
AI1918_MARKER: DD = SURVEY DISK
AI1918_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AI1918_STAMPING: COT3
AI1918_MAGNETIC: N = NO MAGNETIC MATERIAL
AI1918_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AI1918+STABILITY: SURFACE MOTION
AI1918_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AI1918+SATELLITE: SATELLITE OBSERVATIONS - February 12, 1999
AI1918
AI1918  HISTORY     - Date     Condition        Recov. By
AI1918  HISTORY     - UNK      MONUMENTED       AZ0490
AI1918  HISTORY     - 19990212 GOOD             AZ0420
AI1918
AI1918                          STATION DESCRIPTION
AI1918
AI1918'DESCRIBED BY CITY OF SCOTTSDALE ARIZONA 1999 (DLE)
AI1918'THE STATION IS LOCATED ABOUT 7 MI (11.3 KM) SOUTH-SOUTHWEST OF THE
AI1918'CENTER OF TEMPE, IN THE CENTER OF THE CUL-DE-SAC ON HARDY ROAD.
AI1918'OWNERSHIP--CITY OF TEMPE.  TO REACH THE STATION FROM THE INTERSECTION
AI1918'OF MILL AVENUE AND 5TH STREET IN TEMPE, GO SOUTH FOR 3.5 MI (5.6 KM)
AI1918'ON MILL AVENUE TO BASELINE ROAD.  TURN RIGHT AND GO WEST FOR 0.5 MI
AI1918'(0.8 KM) ON BASELINE ROAD TO KYRENE ROAD.  TURN LEFT AND GO SOUTH FOR
AI1918'3.0 MI (4.8 KM) ON KYRENE ROAD TO WARNER ROAD.  TURN RIGHT AND GO WEST
AI1918'FOR 0.5 MI (0.8 KM) ON WARNER ROAD TO HARDY ROAD.  TURN LEFT AND GO
AI1918'SOUTH FOR 0.5 MI (0.8 KM) ON HARDY ROAD TO THE STATION.  THE STATION
AI1918'IS FLUSH WITH GROUND AT THE CENTER OF THE CUL-DE-SAC. LOCATED 60.63 FT
AI1918'(18.48 M) SOUTHEAST FROM A LIGHT POLE, 59.71 FT (18.20 M) WEST FROM A
AI1918'FIRE HYDRANT, 57.7 FT (17.6 M) NORTH FROM A SEWER MANHOLE, 49.4 FT
AI1918'(15.1 M) SOUTH FROM A SEWER MANHOLE AND 43.32 FT (13.20 M) EAST FROM
AI1918'THE CURB OF HARDY ROAD.
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1        National Geodetic Survey,   Retrieval Date = FEBRUARY 29, 2000
AI1919 ***********************************************************************
AI1919  DESIGNATION -  COT4
AI1919  PID         -  AI1919
AI1919  STATE/COUNTY-  AZ/MARICOPA
AI1919  USGS QUAD   -  GUADALUPE (1991)
AI1919
AI1919                         *CURRENT SURVEY CONTROL
AI1919
AI1919* NAD 83(1992)-  33 19 25.52614(N)    111 53 32.07483(W)     ADJUSTED
AI1919* NAVD 88     -      361.7    (meters)    1187.     (feet)   GPS OBS
AI1919
AI1919  X           -  -1,989,260.946 (meters)                     COMP
AI1919  Y           -  -4,950,378.549 (meters)                     COMP
AI1919  Z           -   3,484,199.765 (meters)                     COMP
AI1919  LAPLACE CORR-          -0.99  (seconds)                    DEFLEC99
AI1919  ELLIP HEIGHT-         331.92  (meters)                     GPS OBS
AI1919  GEOID HEIGHT-         -29.79  (meters)                     GEOID99
AI1919
AI1919  HORZ ORDER  -  A
AI1919  ELLP ORDER  -  FIRST     CLASS I
AI1919
AI1919.The horizontal coordinates were established by GPS observations
AI1919.and adjusted by the National Geodetic Survey in September 1999.
AI1919
AI1919.The orthometric height was determined by GPS observations.
AI1919
AI1919.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AI1919
AI1919.The Laplace correction was computed from DEFLEC99 derived deflections.
AI1919
AI1919.The ellipsoidal height was determined by GPS observations
AI1919.and is referenced to NAD 83.
AI1919
AI1919.The geoid height was determined by GEOID99.
AI1919
AI1919;                     North         East     Units   Scale      Converg.
AI1919;SPC AZ C     -   257,655.275   215,633.869   MT  0.99990006 +0 00 48.3
AI1919;UTM  12      - 3,687,534.886   416,954.779   MT  0.99968503 -0 29 24.7
AI1919
AI1919                         SUPERSEDED SURVEY CONTROL
AI1919
AI1919.No superseded survey control is available for this station.
AI1919
AI1919_MARKER: DD = SURVEY DISK
AI1919_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AI1919_STAMPING: COT4
AI1919_MAGNETIC: N = NO MAGNETIC MATERIAL
AI1919_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AI1919+STABILITY: SURFACE MOTION
AI1919_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AI1919+SATELLITE: SATELLITE OBSERVATIONS - February 12, 1999
AI1919
AI1919  HISTORY     - Date     Condition        Recov. By
AI1919  HISTORY     - UNK      MONUMENTED
AI1919  HISTORY     - 19990212 GOOD             AZ0420
AI1919
AI1919                         STATION DESCRIPTION
AI1919
AI1919'DESCRIBED BY CITY OF SCOTTSDALE ARIZONA 1999 (DLE)
AI1919'THE STATION IS IN CHANDLER, AT THE CENTERLINE INTERSECTION OF MISSION
AI1919'PARK BLVD AND FIREHOUSE COURT.  OWNERSHIP--CITY OF CHANDLER.  TO REACH
AI1919'THE STATION FROM THE JUNCTION OF MILL AVENUE AND 5TH STREET IN TEMPE,
AI1919'GO SOUTH FOR 0.4 KM (0.25 MI) ON MILL AVENUE TO UNIVERSITY DRIVE.
AI1919'TURN LEFT AND GO EAST FOR 4.4 KM (2.75 MI) ON UNIVERSITY DRIVE TO
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AI1919'PRICE ROAD.  TURN RIGHT AND GO SOUTH FOR 11.25 KM (7.00 MI) ON PRICE
AI1919'ROAD TO RAY ROAD.  TURN LEFT AND GO EAST FOR 0.4 KM (0.25 MI) ON RAY
AI1919'ROAD TO MISSION PARK BOULEVARD.  TURN LEFT AND GO NORTH, NORTHWEST
AI1919'THEN WEST FOR 0.7 KM (0.45 MI) ON MISSION PARK BOULEVARD TO THE
AI1919'JUNCTION OF FIREHOUSE COURT AND THE STATION.  THE STATION IS FLUSH
AI1919'WITH PAVEMENT.  LOCATED 253.63 FT (77.31 M) EAST FROM THE EAST EDGE OF
AI1919'THE FUTURE 101 FREEWAY NORTHBOUND LANES, 42.33 FT (12.90 M) SOUTH FROM
AI1919'A SEWER MANHOLE, 35.29 FT (10.76 M) SOUTHWEST FROM NORTHEAST CURB
AI1919'CORNER, 32.23 FT (9.82 M) SOUTHEAST FROM THE NORTHWEST CURB CORNER AND
AI1919'22.63 FT (6.90 M) NORTH FROM THE SOUTH CURB OF MISSION PARK BLVD.
Elapsed Time = 00:00:48
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MPE.
EMPE, 6 MI (9.66 KM) WEST ALONG S.R. 360 FROM THE INTERSECTION OF
BERT ROAD TO PRICE ROAD, STATION LOCATED ON NORTHEAST CORNER OF
ICE ROAD OVERPASS, 107.4 FT (32.73 METERS) NORTH OF S.R. 360
ENTERLINE (MEASURED FROM CENTER OF SIGNPOST ON PRICE ROAD
CENTERLINE), 54.5 FT (16.61 METERS) EAST OF PRICE ROAD CENTERLINE, 2.4
'FT (0.73 METERS) SOUTH OF EXPANSION JOINT, A STANDARD AZDT ALUMINUM
'CAP EPOXIED ON BRIDGE SIDEWALK.

695
1695
U1695

STATION RECOVERY (1994)

price
& 360

DU1695'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1994 (GAS)
DU1695'IN TEMPE, AT THE INTERSECTION OF PRICE ROAD AND U.S. HIGHWAY 60, IN
DU1695'TOP OF AND 0.7 M (2.3 FT) SOUTH OF THE NORTH END OF THE EAST CONCRETE
DU1695'WALKWAY OF THE ROAD OVERPASS OF THE HIGHWAY, 24.5 M (80.4 FT) NORTH OF
DU1695'THE CENTERLINE OF THE WESTBOUND LANES OF THE HIGHWAY, 21.4 M (70.2 FT)
DU1695'EAST OF AND LEVEL WITH THE CENTERLINE OF THE NORTHBOUND LANES OF THE
DU1695'ROAD, 3.0 M (9.8 FT) WEST OF A CHAIN LINK FENCE, 0.7 M (2.3 FT) SOUTH
DU1695'OF THE NORTH EXPANSION JOINT, AND 0.2 M (0.7 FT) EAST OF THE EAST
DU1695'BRIDGE RAIL.

1 National Geodetic Survey, Retrieval Date = FEBRUARY 29, 2000

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DU1696 ***********************************************************************
DU1696  DESIGNATION -  360 D
DU1696  PID         -  DU1696
DU1696  STATE/COUNTY-  AZ/MARICOPA
DU1696  USGS QUAD   -  TEMPE (1986)
DU1696
DU1696                          *CURRENT SURVEY CONTROL
DU1696
DU1696* NAD 83(1986)-  33 23 08.     (N)    111 54 35.     (W)     SCALED
DU1696* NAVD 88     -       363.337  (meters)    1192.05   (feet)  ADJUSTED
DU1696
DU1696  GEOID HEIGHT-         -29.71  (meters)                     GEOID99
DU1696  DYNAMIC HT  -         362.915 (meters)    1190.66   (feet)  COMP
DU1696  MODELED GRAV-     979,466.1   (mgal)                       NAVD 88
DU1696
DU1696  VERT ORDER  -  SECOND    CLASS I
DU1696
DU1696.The horizontal coordinates were scaled from a topographic map and have
DU1696.an estimated accuracy of +/- 6 seconds.
DU1696
DU1696.The orthometric height was determined by differential leveling
DU1696.and adjusted by the National Geodetic Survey in January 1998.
DU1696
DU1696.The geoid height was determined by GEOID99.
DU1696
DU1696.The dynamic height is computed by dividing the NAVD 88
DU1696.geopotential number by the normal gravity value computed on the
DU1696.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DU1696.degrees latitude (G = 980.6199 gals.).
DU1696
DU1696.The modeled gravity was interpolated from observed gravity values.
DU1696
DU1696;                    North         East     Units  Estimated Accuracy
DU1696;SPC AZ C     -   264,510.      214,010.      MT  (+/- 180 meters Scaled)
DU1696
DU1696                          SUPERSEDED SURVEY CONTROL
DU1696
DU1696.No superseded survey control is available for this station.
DU1696
DU1696_MARKER: DD = SURVEY DISK
DU1696_SETTING: 31 = BRIDGE WALKWAY
DU1696_STAMPING: 360 D 81
DU1696_MAGNETIC: N = NO MAGNETIC MATERIAL
DU1696_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
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DU 1696

AZ DOT Hwy Div. 360-D BM

P&M 1981 Geodetic survey

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DU1696 SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
DU1696+SATELLITE: SATELLITE OBSERVATIONS - October 12, 1994
DU1696
DU1696  HISTORY     - Date     Condition        Recov. By
DU1696  HISTORY     - 1981     MONUMENTED       AZDT
DU1696  HISTORY     - 19941012 GOOD             NGS
DU1696
DU1696                         STATION DESCRIPTION
DU1696
DU1696'DESCRIBED BY ARIZONA DEPARTMENT OF TRANSPORTATION 1981
DU1696'IN TEMPE.
DU1696'IN TEMPE, 7 MI (11.27 KM) WEST ALONG S.R. 360 FROM THE INTERSECTION OF
DU1696'GILBERT ROAD TO MC CLINTOCK DRIVE, STATION LOCATED AT NORTHEAST CORNER
DU1696'OF OVERPASS, THE MARK IS 1.0 FT (.30 METERS) SOUTH OF NORTH EXPANSION
DU1696'JOINT, 10.0 FT (30.5 METERS) WEST OF CHAIN LINK FENCE, 47.5 FT
DU1696'(14.48 METERS) EAST OF CENTERLINE OF MC CLINTOCK DRIVE, A STANDARD
DU1696'AZDT ALUMINUM CAP EPOXIED ON BRIDGE SIDEWALK
DU1696
DU1696                         STATION RECOVERY (1994)
DU1696
DU1696'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1994 (GAS)
DU1696'IN TEMPE, AT THE INTERSECTION OF MCCLINTOCK DRIVE AND U.S.  HIGHWAY
DU1696'60, IN TOP OF AND 0.3 M (1.0 FT) SOUTH OF THE NORTH END OF THE EAST
DU1696'CONCRETE WALKWAY OF THE DRIVE OVERPASS OF THE HIGHWAY, 21.9 M (71.9
DU1696'FT) NORTH OF THE CENTERLINE OF THE WESTBOUND LANES OF THE HIGHWAY, 6.1
DU1696'M (20.0 FT) EAST OF AND LEVEL WITH THE CENTERLINE OF THE NORTHBOUND
DU1696'LANES OF THE ROAD, 3.0 M (9.8 FT) WEST OF A CHAIN LINK FENCE, 0.3 M
DU1696'(1.0 FT) SOUTH OF THE NORTH EXPANSION JOINT, AND 0.2 M (0.7 FT) EAST
DU1696'OF THE EAST BRIDGE RAIL.
1       National Geodetic Survey,   Retrieval Date = FEBRUARY 29, 2000
DU1697 ***********************************************************************
DU1697  DESIGNATION -  360 C
DU1697  PID         -  DU1697
DU1697  STATE/COUNTY-  AZ/MARICOPA
DU1697  USGS QUAD   -  TEMPE (1986)
DU1697
DU1697                         *CURRENT SURVEY CONTROL
DU1697
DU1697* NAD 83(1986)-  33 23 08.     (N)    111 55 37.     (W)     SCALED
DU1697* NAVD 88     -       361.007  (meters)    1184.40   (feet)  ADJUSTED
DU1697
DU1697  GEOID HEIGHT-         -29.70  (meters)                     GEOID99
DU1697  DYNAMIC HT  -         360.590 (meters)    1183.04   (feet)  COMP
DU1697  MODELED GRAV-     979,470.9   (mgal)                       NAVD 88
DU1697
DU1697  VERT ORDER  -  SECOND    CLASS I
DU1697
DU1697.The horizontal coordinates were scaled from a topographic map and have
DU1697.an estimated accuracy of +/- 6 seconds.
DU1697
DU1697.The orthometric height was determined by differential leveling
DU1697.and adjusted by the National Geodetic Survey in January 1998.
DU1697
DU1697.The geoid height was determined by GEOID99.
DU1697
DU1697.The dynamic height is computed by dividing the NAVD 88
DU1697.geopotential number by the normal gravity value computed on the
DU1697.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DU1697.degrees latitude (G = 980.6199 gals.).
DU1697
DU1697.The modeled gravity was interpolated from observed gravity values.
DU1697
DU1697;                    North         East     Units  Estimated Accuracy
DU1697;SPC AZ C     -   264,510.      212,400.      MT  (+/- 180 meters Scaled)
DU1697
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                                  *CURRENT SURVEY CONTROL
DU1701
DU1701*  NAD 83(1986)-  33 23 34.      (N)     111 56 23.      (W)      SCALED
DU1701*  NAVD 88      -       357.456  (meters)    1172.75    (feet)   ADJUSTED
DU1701
DU1701   GEOID HEIGHT-          -29.68  (meters)                        GEOID99
DU1701   DYNAMIC HT  -          357.044 (meters)    1171.40    (feet)   COMP
DU1701   MODELED GRAV-      979,475.3   (mgal)                          NAVD 88
DU1701
DU1701   VERT ORDER  -  SECOND    CLASS I
DU1701
DU1701.The horizontal coordinates were scaled from a topographic map and have
DU1701.an estimated accuracy of +/- 6 seconds.
DU1701
DU1701.The orthometric height was determined by differential leveling
DU1701.and adjusted by the National Geodetic Survey in January 1998.
DU1701
DU1701.The geoid height was determined by GEOID99.
DU1701
DU1701.The dynamic height is computed by dividing the NAVD 88
DU1701.geopotential number by the normal gravity value computed on the
DU1701.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DU1701.degrees latitude (G = 980.6199 gals.).
DU1701
DU1701.The modeled gravity was interpolated from observed gravity values.
DU1701
DU1701;                      North         East     Units  Estimated Accuracy
DU1701;SPC AZ C      -    265,310.      211,220.      MT  (+/- 180 meters Scaled)
DU1701
DU1701                            SUPERSEDED SURVEY CONTROL
DU1701
DU1701.No superseded survey control is available for this station.
DU1701
DU1701_MARKER: DB = BENCH MARK DISK
DU1701_SETTING: 30 = CONCRETE CURB
DU1701_STAMPING: 1262-5
DU1701_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DU1701
DU1701   HISTORY      - Date      Condition        Recov. By
DU1701   HISTORY      - UNK       MONUMENTED       AZDT
DU1701   HISTORY      - 1981      GOOD             AZDT
DU1701
DU1701                            STATION DESCRIPTION
DU1701
DU1701'DESCRIBED BY ARIZONA DEPARTMENT OF TRANSPORTATION 1981
DU1701'IN TEMPE.
DU1701'IN TEMPE, 0.9 MI (1.45 KM) WEST ALONG SOUTHERN AVENUE FROM RURAL ROAD
DU1701'TO THE INTERSECTION OF MILL AVENUE AND THE MARK ON THE SOUTHEAST
DU1701'CORNER, A STANDARD AZDT BRASS CAP EPOXIED ON THE SOUTH END OF THE CURB
DU1701'RADIUS ON THE WEST SIDE OF MILL AVENUE, 6 FT (1.82 METERS) EAST OF A
DU1701'TRAFFIC LIGHT POLE.
1        National Geodetic Survey,   Retrieval Date = FEBRUARY 29, 2000
DU1702 ***********************************************************************
DU1702   DESIGNATION -  SGT 38
DU1702   PID         -  DU1702
DU1702   STATE/COUNTY-  AZ/MARICOPA
DU1702   USGS QUAD   -  TEMPE (1986)
DU1702
DU1702                            *CURRENT SURVEY CONTROL
DU1702
DU1702*  NAD 83(1986)-  33 23 34.      (N)     111 56 35.      (W)      SCALED
DU1702*  NAVD 88      -       357.214  (meters)    1171.96    (feet)   ADJUSTED
DU1702
DU1702   GEOID HEIGHT-          -29.68  (meters)                        GEOID99
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Sthrn & Mill

Fd. Southern & RR

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DYNAMIC HT  -          356.803 (meters)    1170.61  (feet)  COMP
MODELED GRAV-      979,476.1   (mgal)                       NAVD 88

VERT ORDER  -  SECOND    CLASS I

DU1702.The horizontal coordinates were scaled from a topographic map and have
DU1702.an estimated accuracy of +/- 6 seconds.
DU1702
DU1702.The orthometric height was determined by differential leveling
DU1702.and adjusted by the National Geodetic Survey in January 1998.
DU1702
DU1702.The geoid height was determined by GEOID99.
DU1702
DU1702.The dynamic height is computed by dividing the NAVD 88
DU1702.geopotential number by the normal gravity value computed on the
DU1702.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DU1702.degrees latitude (G = 980.6199 gals.).
DU1702
DU1702.The modeled gravity was interpolated from observed gravity values.
DU1702
DU1702;                    North         East    Units  Estimated Accuracy
DU1702;SPC AZ C     -   265,310.      210,910.      MT  (+/- 180 meters Scaled)
DU1702
DU1702                          SUPERSEDED SURVEY CONTROL
DU1702
DU1702.No superseded survey control is available for this station.
DU1702
DU1702_MARKER: DB = BENCH MARK DISK
DU1702_SETTING: 30 = CONCRETE HEADGATE
DU1702_STAMPING: SGT 38
DU1702_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DU1702
DU1702  HISTORY     - Date     Condition        Recov. By
DU1702  HISTORY     - UNK      MONUMENTED       SRVWUA
DU1702  HISTORY     - 1981     GOOD             AZDT
DU1702
DU1702                          STATION DESCRIPTION
DU1702
DU1702'DESCRIBED BY ARIZONA DEPARTMENT OF TRANSPORTATION 1981
DU1702'IN TEMPE.
DU1702'IN TEMPE, 1.0 MI (1.61 KM) WEST ALONG SOUTHERN AVENUE FROM THE
DU1702'INTERSECTION OF RURAL ROAD TO THE INTERSECTION OF THE SOUTHERN PACIFIC
DU1702'RAILROAD TRACK AND THE MARK IN THE NORTHEAST CORNER, 35 FT
DU1702'(10.66 METERS) EAST OF THE CENTERLINE OF RAILROAD TRACKS, 40 FT
DU1702'(12.19 METERS) NORTH OF THE CENTERLINE OF SOUTHERN AVENUE, ON THE
DU1702'NORTH SIDE OF A 4- BY 10-FOOT CONCRETE BOX, A STANDARD SRVWUA BRASS
DU1702'CAP EPOXIED ON WALL.
1        National Geodetic Survey,   Retrieval Date = FEBRUARY 29, 2000
DU1703 ***********************************************************************
DU1703  DESIGNATION -  1262 3 1
DU1703  PID         -  DU1703
DU1703  STATE/COUNTY-  AZ/MARICOPA
DU1703  USGS QUAD   -  TEMPE (1986)
DU1703
DU1703                          *CURRENT SURVEY CONTROL
DU1703
DU1703* NAD 83(1986)-  33 23 34.     (N)    111 57 03.     (W)     SCALED
DU1703* NAVD 88     -       355.156  (meters)    1165.21   (feet)  ADJUSTED
DU1703
DU1703  GEOID HEIGHT-         -29.68  (meters)                     GEOID99
DU1703  DYNAMIC HT  -         354.747 (meters)    1163.87   (feet)  COMP
DU1703  MODELED GRAV-     979,476.3   (mgal)                       NAVD 88
DU1703
DU1703  VERT ORDER  -  SECOND    CLASS I
DU1703
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| STA | Sec | T | R | | | | | | | NGVD 29 | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCOR N | 27 | 1 S | 4 E | TEMPEC | 3 | 1984 | 491389.3 | 843854.9 | C | 0 | 331113 | | BRASS CAP @ RAY & KYRENE | 7 | 33.31979 | 111.9449 | 1683 | 33 | 19 | 11.25614 | 111 | 56 | 41.47859 | 33 | 19 | 11.42871 | 111 | 56 | 43.9919 | 257221 | 210671 |
| QCOR N | 28 | 1 S | 4 E | TEMPEC | 3 | 1984 | 488709.6 | 843875.5 | C | 0 | 331113 | | "1/2"" @ RAY & HARDY 337'E R.R.TRACKS" | 7 | 33.31985 | 111.9536 | 1683 | 33 | 19 | 11.45261 | 111 | 57 | 13.05841 | 33 | 19 | 11.62486 | 111 | 57 | 15.57272 | 257227 | 209854 |
| SCOR N | 28 | 1 S | 4 E | TEMPEC | 3 | 1984 | 486030.7 | 843896.3 | C | 0 | 331113 | | IN OLD PANAL HOLE @ 56TH & RAY | 7 | 33.3199 | 111.9624 | 1683 | 33 | 19 | 11.6474 | 111 | 57 | 44.62993 | 33 | 19 | 11.81933 | 111 | 57 | 47.14524 | 257234 | 209037 |
| 2005- 1 | 29 | 1 N | 4 E | P&M | 3 | 1982 | 484785.7 | 871087.8 | C | 0 | 331113 | 2005 | | 7 | 33.39464 | 111.9665 | 1684 | 33 | 23 | 40.69191 | 111 | 57 | 59.45608 | 33 | 23 | 40.85707 | 111 | 58 | 1.97569 | 265522 | 208658 |
| 2017- 4 | 29 | 1 S | 4 E | GPS | 2 | 1991 | 483263.8 | 840474.8 | C | 1197.85 | 331113 | 3122 | COORD. DIFFER FROM JOB 2017 | 7 | 33.31049 | 111.9714 | 1683 | 33 | 18 | 37.77978 | 111 | 58 | 17.21702 | 33 | 18 | 37.95221 | 111 | 58 | 19.73288 | 256191 | 208194 |
| 2017- 4 | 29 | 1 S | 4 E | P&M | 3 | 1982 | 483263.5 | 840474.8 | C | 1197.86 | 331113 | 2016 | C/L MED-10 | 7 | 33.31049 | 111.9715 | 1683 | 33 | 18 | 37.77922 | 111 | 58 | 17.22073 | 33 | 18 | 37.95165 | 111 | 58 | 19.73659 | 256191 | 208194 |
| 2166- 10A | 29 | 1 N | 4 E | P&M | 3 | 1984 | 484586.1 | 870790 | C | 1164.83 | 331113 | 2166 | | 7 | 33.39382 | 111.9672 | 1684 | 33 | 23 | 37.74491 | 111 | 58 | 1.80912 | 33 | 23 | 37.91012 | 111 | 58 | 4.32876 | 265431 | 208597 |
| 2166- 11 | 29 | 1 N | 4 E | P&M | 3 | 1984 | 484598 | 870606.4 | C | 1167.92 | 331113 | 2166 | | 7 | 33.39331 | 111.9671 | 1684 | 33 | 23 | 35.92829 | 111 | 58 | 1.6675 | 33 | 23 | 36.09355 | 111 | 58 | 4.18711 | 265375 | 208600 |
| 2244- 1 | 29 | 1 S | 4 E | P&M | 3 | 1985 | 483248.7 | 838560.7 | C | 0 | 331113 | 2244 | B BY DARROW | 7 | 33.30523 | 111.9715 | 1683 | 33 | 18 | 18.84033 | 111 | 58 | 17.38333 | 33 | 18 | 19.01322 | 111 | 58 | 19.89893 | 255607 | 208189 |
| 2244- 2 | 29 | 1 S | 4 E | P&M | 3 | 1985 | 484548.7 | 838564.3 | C | 0 | 331113 | 2244 | | 7 | 33.30525 | 111.9672 | 1683 | 33 | 18 | 18.88201 | 111 | 58 | 2.06543 | 33 | 18 | 19.05506 | 111 | 58 | 4.58054 | 255609 | 208585 |
| 3122- 3 | 29 | 1 S | 4 E | GPS | 2 | 1991 | 483480.6 | 843823.3 | C | 1241.43 | 331113 | 3122 | | 7 | 33.3197 | 111.9707 | 1683 | 33 | 19 | 10.91295 | 111 | 58 | 14.68279 | 33 | 19 | 11.08459 | 111 | 58 | 17.19904 | 257211 | 208260 |
| 3122- 8 | 29 | 1 S | 4 E | GPS | 2 | 1991 | 483268.1 | 838560.9 | C | 1211.04 | 331113 | 3122 | | 7 | 33.30523 | 111.9714 | 1683 | 33 | 18 | 18.84186 | 111 | 58 | 17.15456 | 33 | 18 | 19.01476 | 111 | 58 | 19.67015 | 255607 | 208195 |
| CCOR CT | 29 | 1 S | 4 E | SRP PHA | 4 | 1986 | 483396.7 | 841223.9 | C | 0 | 331113 | | | 7 | 33.31255 | 111.971 | 1683 | 33 | 18 | 45.19252 | 111 | 58 | 15.65558 | 33 | 18 | 45.36479 | 111 | 58 | 18.1715 | 256419 | 208234 |
| QCOR W | 29 | 1 S | 4 E | SRP PHA | 4 | 1986 | 480743.8 | 841206.8 | C | 0 | 331113 | | | 7 | 33.3125 | 111.9797 | 1683 | 33 | 18 | 45.00796 | 111 | 58 | 46.91797 | 33 | 18 | 45.17991 | 111 | 58 | 49.43488 | 256414 | 207426 |
| QCOR W | 29 | 1 N | 4 E | PHXCITY | 4 | | 481405 | 873039.4 | C | 1145.13 | 331113 | | 439 | 7 | 33.4 | 111.9776 | 1684 | 33 | 23 | 59.98511 | 111 | 58 | 39.34526 | 33 | 24 | 0.14947 | 111 | 58 | 41.86638 | 266117 | 207627 |
| SCOR N | 29 | 1 S | 4 E | P&M DIGI | 5 | | 480751 | 843847 | C | 0 | 331113 | | | 7 | 33.31976 | 111.9797 | 1683 | 33 | 19 | 11.13244 | 111 | 58 | 46.8518 | 33 | 19 | 11.30376 | 111 | 58 | 49.36907 | 257219 | 207428 |
| CCOR CT | 30 | 1 N | 4 E | PHXCITY | 4 | | 478762.9 | 873025.1 | C | 0 | 331113 | | | 7 | 33.39995 | 111.9863 | 1684 | 33 | 23 | 59.82675 | 111 | 59 | 10.51175 | 33 | 23 | 59.99085 | 111 | 59 | 13.03383 | 266112 | 206822 |
| QCOR N | 30 | 1 S | 4 E | SRP PHA | 4 | 1986 | 478097.3 | 843836.1 | C | 0 | 331113 | | | 7 | 33.31972 | 111.9884 | 1683 | 33 | 19 | 11.00743 | 111 | 59 | 18.12634 | 33 | 19 | 11.17844 | 111 | 59 | 20.6446 | 257215 | 206619 |
| QCOR S | 30 | 1 N | 4 E | PHXCITY | 4 | | 478754.9 | 870368.5 | C | 1153.5 | 331113 | | | 7 | 33.39265 | 111.9863 | 1684 | 33 | 23 | 33.54108 | 111 | 59 | 10.5849 | 33 | 23 | 33.70582 | 111 | 59 | 13.10661 | 265303 | 206819 |
| QCOR W | 30 | 1 N | 4 E | PHXCITY | 4 | | 476168.9 | 873011.5 | C | 1132.29 | 331113 | | | 7 | 33.39991 | 111.9948 | 1684 | 33 | 23 | 59.67397 | 111 | 59 | 41.11031 | 33 | 23 | 59.83782 | 111 | 59 | 43.63333 | 266108 | 206031 |
| SCOR N | 30 | 1 S | 4 E | P&M DIGI | 5 | | 475602 | 843781 | C | 0 | 331113 | | | 7 | 33.31957 | 111.9965 | 1683 | 33 | 19 | 10.44449 | 111 | 59 | 47.53275 | 33 | 19 | 10.61521 | 111 | 59 | 50.05194 | 257199 | 205858 |
| CCOR CT | 31 | 1 N | 4 E | PHXCITY | 4 | | 478752.3 | 867716.4 | C | 0 | 331113 | | | 7 | 33.38536 | 111.9863 | 1684 | 33 | 23 | 7.29991 | 111 | 59 | 10.59508 | 33 | 23 | 7.46528 | 111 | 59 | 13.11643 | 264494 | 206819 |
| QCOR N | 31 | 1 S | 4 E | SRP PHA | 4 | 1986 | 478108.1 | 838547.2 | C | 0 | 331113 | | | 7 | 33.30519 | 111.9883 | 1683 | 33 | 18 | 18.6752 | 111 | 59 | 17.95614 | 33 | 18 | 18.84747 | 111 | 59 | 20.47366 | 255603 | 206622 |
| QCOR S | 31 | 1 S | 4 E | SRP PHA | 4 | 1986 | 478117.8 | 833265.3 | C | 0 | 331113 | | | 7 | 33.29067 | 111.9883 | 1683 | 33 | 17 | 26.41269 | 111 | 59 | 17.79843 | 33 | 17 | 26.58622 | 111 | 59 | 20.31522 | 253993 | 206625 |
| QCOR S | 31 | 1 N | 4 E | P&M | 3 | | 478749.7 | 865068 | C | 0 | 331113 | | | 7 | 33.37808 | 111.9863 | 1684 | 33 | 22 | 41.09451 | 111 | 59 | 10.60397 | 33 | 22 | 41.26051 | 111 | 59 | 13.12495 | 263687 | 206818 |
| QCOR W | 31 | 1 N | 4 E | P&M | 3 | | 476136.3 | 867697.3 | C | 0 | 331113 | | | 7 | 33.3853 | 111.9948 | 1684 | 33 | 23 | 7.09206 | 111 | 59 | 41.44711 | 33 | 23 | 7.25717 | 111 | 59 | 43.96941 | 264488 | 206021 |
| SCOR N | 31 | 1 S | 4 E | SRP PHA | 4 | 1986 | 475590 | 838536.2 | C | 0 | 331113 | | | 7 | 33.30515 | 111.9966 | 1683 | 33 | 18 | 18.54806 | 111 | 59 | 47.62637 | 33 | 18 | 18.72003 | 111 | 59 | 50.14484 | 255600 | 205855 |
| SCOR N | 31 | 1 N | 4 E | P&M | 3 | | 476139.6 | 870346.8 | C | 0 | 331113 | | | 7 | 33.39259 | 111.9948 | 1684 | 33 | 23 | 33.30781 | 111 | 59 | 41.43149 | 33 | 23 | 33.47229 | 111 | 59 | 43.95416 | 265296 | 206022 |
| SCOR S | 31 | 1 S | 4 E | SRP PHA | 4 | 1986 | 475600.8 | 833259.4 | C | 0 | | | | | 33.29065 | 111.9965 | | 33 | 17 | 26.33624 | 111 | 59 | 47.45166 | 33 | 17 | 26.50946 | 111 | 59 | 49.96939 | 253992 | 205858 |
| SCOR S | 31 | 1 S | 4 E | SRP PHA | 4 | 1986 | 475600.8 | 833259.4 | C | 0 | 331113 | | | 7 | 33.29065 | 111.9965 | 1683 | 33 | 17 | 26.33624 | 111 | 59 | 47.45166 | 33 | 17 | 26.50946 | 111 | 59 | 49.96939 | 253992 | 205858 |
| SCOR S | 31 | 1 N | 4 E | P&M | 3 | 0 | 476131.9 | 865056.3 | C | 0 | | | | | 33.37804 | 111.9949 | | 33 | 22 | 40.96074 | 111 | 59 | 41.47629 | 33 | 22 | 41.12648 | 111 | 59 | 43.99823 | 263683 | 206020 |
| SCOR S | 31 | 1 N | 4 E | P&M | 3 | | 476131.9 | 865056.3 | C | 0 | 331113 | | | 7 | 33.37804 | 111.9949 | 1684 | 33 | 22 | 40.96074 | 111 | 59 | 41.47629 | 33 | 22 | 41.12648 | 111 | 59 | 43.99823 | 263683 | 206020 |
| 2005- 2 | 32 | 1 N | 4 E | P&M | 3 | 1982 | 484668.8 | 869203.2 | C | 0 | 331113 | 2005 | | 7 | 33.38946 | 111.9669 | 1684 | 33 | 23 | 22.04404 | 111 | 58 | 0.82428 | 33 | 23 | 22.20965 | 111 | 58 | 3.34367 | 264947 | 208622 |
| 2005- 3 | 32 | 1 N | 4 E | P&M | 3 | 1982 | 484717.8 | 867660.3 | C | 0 | 331113 | 2005 | | 7 | 33.38522 | 111.9667 | 1684 | 33 | 23 | 6.77807 | 111 | 58 | 0.23791 | 33 | 23 | 6.94406 | 111 | 58 | 2.75706 | 264477 | 208637 |
| 2166- 12 | 32 | 1 N | 4 E | P&M | 3 | 1984 | 484541.1 | 867797.8 | C | 1186.22 | 331113 | 2166 | | 7 | 33.38559 | 111.9673 | 1684 | 33 | 23 | 8.13775 | 111 | 58 | 2.32245 | 33 | 23 | 8.30369 | 111 | 58 | 4.84169 | 264519 | 208583 |
| 2166- 13 | 32 | 1 N | 4 E | P&M | 3 | 1984 | 484485.1 | 865193.4 | C | 1231.74 | 331113 | 2166 | | 7 | 33.37844 | 111.9675 | 1684 | 33 | 22 | 42.36807 | 111 | 58 | 2.96815 | 33 | 22 | 42.53463 | 111 | 58 | 5.48704 | 263725 | 208566 |
| 2244- 3 | 32 | 1 S | 4 E | P&M | 3 | 1985 | 483274.4 | 836788.2 | C | 0 | 331113 | 2244 | | 7 | 33.30036 | 111.9714 | 1683 | 33 | 18 | 1.30117 | 111 | 58 | 17.06965 | 33 | 18 | 1.4745 | 111 | 58 | 19.58499 | 255067 | 208197 |
| 2244- 4 | 32 | 1 S | 4 E | P&M | 3 | 1985 | 482077.7 | 838554 | C | 0 | 331113 | 2244 | | 7 | 33.30521 | 111.9753 | 1683 | 33 | 18 | 18.76747 | 111 | 58 | 31.18152 | 33 | 18 | 18.94022 | 111 | 58 | 33.69756 | 255605 | 207832 |
| 2661- 2' | 32 | 1 N | 4 E | GPS | 3 | 1993 | 484631.2 | 865267.4 | C | 1230.73 | 331113 | 2661 | | 7 | 33.37864 | 111.967 | 1684 | 33 | 22 | 43.10129 | 111 | 58 | 1.24476 | 33 | 22 | 43.26785 | 111 | 58 | 3.76361 | 263748 | 208611 |
| 2661- 3 | 32 | 1 N | 4 E | P&M | 3 | 1988 | 486321.4 | 868695.1 | C | 0 | 331113 | 2661 | | 7 | 33.38806 | 111.9615 | 1684 | 33 | 23 | 17.02467 | 111 | 57 | 41.33042 | 33 | 23 | 17.19057 | 111 | 57 | 43.84913 | 264792 | 209126 |
| 2661- 7 | 32 | 1 N | 4 E | P&M | 3 | 1988 | 484676 | 865107.8 | C | 0 | 331113 | 2661 | | 7 | 33.3782 | 111.9669 | 1684 | 33 | 22 | 41.52259 | 111 | 58 | 0.71536 | 33 | 22 | 41.6892 | 111 | 58 | 3.23417 | 263699 | 208624 |
| 2661- 8 | 32 | 1 N | 4 E | P&M | 3 | 1988 | 485010.7 | 870412.9 | C | 0 | 331113 | 2661 | | 7 | 33.39278 | 111.9658 | 1684 | 33 | 23 | 34.01598 | 111 | 57 | 56.79874 | 33 | 23 | 34.18133 | 111 | 57 | 59.31817 | 265316 | 208726 |
| 2925-7 | 32 | 1 N | 4 E | P&M | 3 | 1990 | 482692.8 | 865754.9 | C | 0 | 331113 | 2925 | | 7 | 33.37998 | 111.9734 | 1684 | 33 | 22 | 47.91452 | 111 | 58 | 24.10754 | 33 | 22 | 48.08076 | 111 | 58 | 26.62717 | 263896 | 208020 |
| BASE | 32 | 1 N | 4 E | P&M | 3 | 1988 | 484492.4 | 865891.9 | C | 0 | 331113 | 2661 | | 7 | 33.38036 | 111.9675 | 1684 | 33 | 22 | 49.28 | 111 | 58 | 2.88559 | 33 | 22 | 49.4464 | 111 | 58 | 5.40458 | 263938 | 208568 |
| BASE 2 | 32 | 1 N | 4 E | GPS | 2 | 1993 | 484492.7 | 865892.1 | C | 1218.74 | 331113 | 3090 | | 7 | 33.38036 | 111.9675 | 1684 | 33 | 22 | 49.28127 | 111 | 58 | 2.88245 | 33 | 22 | 49.44767 | 111 | 58 | 5.40144 | 263938 | 208568 |
| CCOR CT | 32 | 1 S | 4 E | SRP PHA | 4 | 1986 | 483399.9 | 835922.8 | C | 0 | 331113 | | | 7 | 33.29798 | 111.971 | 1683 | 33 | 17 | 52.73914 | 111 | 58 | 15.58558 | 33 | 17 | 52.91269 | 111 | 58 | 18.10075 | 254803 | 208235 |
| CCOR CT | 32 | 1 N | 4 E | TEMPEC | 3 | 1984 | 484038.2 | 867752.2 | C | 0 | 331113 | | BRASS CAP @ WENDLER & 55'S. RIVERA C.L. | 7 | 33.38547 | 111.969 | 1684 | 33 | 23 | 7.68409 | 111 | 58 | 8.25345 | 33 | 23 | 7.84999 | 111 | 58 | 10.77286 | 264505 | 208430 |
| CHAN | 32 | 1 S | 4 E | AGS | 2 | 1991 | 483121.1 | 838536.8 | C | 1210.19 | 331113 | 3090 | | 7 | 33.30517 | 111.9719 | 1683 | 33 | 18 | 18.60264 | 111 | 58 | 18.88623 | 33 | 18 | 18.77552 | 111 | 58 | 21.40187 | 255600 | 208150 |
| FREE | 32 | 1 S | 4 E | GPS | 2 | 1991 | 483483 | 833257.7 | C | 1171.6 | 331113 | 3122 | | 7 | 33.29066 | 111.9707 | 1683 | 33 | 17 | 26.3688 | 111 | 58 | 14.58999 | 33 | 17 | 26.54301 | 111 | 58 | 17.10476 | 253991 | 208261 |
| QCOR N | 32 | 1 S | 4 E | SRP PHA | 4 | 1986 | 483399.3 | 838572.6 | C | 0 | 331113 | | | 7 | 33.30527 | 111.971 | 1683 | 33 | 18 | 18.95873 | 111 | 58 | 15.60891 | 33 | 18 | 19.13164 | 111 | 58 | 18.12445 | 255611 | 208235 |
| QCOR N | 32 | 1 N | 4 E | P&M | 3 | 1988 | 484072.5 | 870406.1 | C | 0 | 331113 | 2661 | BRASS CAP @ SOUTHERN 250'W. I-10 | 7 | 33.39276 | 111.9689 | 1684 | 33 | 23 | 33.94331 | 111 | 58 | 7.86436 | 33 | 23 | 34.10857 | 111 | 58 | 10.38414 | 265314 | 208440 |
| QCOR S | 32 | 1 N | 4 E | P&M | 3 | 1988 | 484005.3 | 865097.4 | C | 0 | 331113 | 2661 | BRASS CAP @ BASELINE & 48TH ST. | 7 | 33.37817 | 111.9691 | 1684 | 33 | 22 | 41.41553 | 111 | 58 | 8.62587 | 33 | 22 | 41.58207 | 111 | 58 | 11.14492 | 263696 | 208420 |
| QCOR W | 32 | 1 S | 4 E | SRP PHA | 4 | 1986 | 480758.8 | 835912.7 | C | 0 | 331113 | | | 7 | 33.29795 | 111.9796 | 1683 | 33 | 17 | 52.62432 | 111 | 58 | 46.70368 | 33 | 17 | 52.79755 | 111 | 58 | 49.21984 | 254800 | 207430 |
| QCOR W | 32 | 1 N | 4 E | PHXCITY | 4 | | 481379.6 | 867735.8 | C | 1179.46 | 331113 | | 239 | 7 | 33.38542 | 111.9777 | 1684 | 33 | 23 | 7.50759 | 111 | 58 | 39.60812 | 33 | 23 | 7.67322 | 111 | 58 | 42.12851 | 264500 | 207619 |
| SCOR N | 32 | 1 S | 4 E | SRP PHA | 4 | 1986 | 480757.7 | 838557.9 | C | 0 | 331113 | | | 7 | 33.30522 | 111.9796 | 1683 | 33 | 18 | 18.79799 | 111 | 58 | 46.73498 | 33 | 18 | 18.97058 | 111 | 58 | 49.25151 | 255607 | 207430 |
| SCOR N | 32 | 1 N | 4 E | P&M | 3 | 0 | 481389.8 | 870390.6 | C | 1159 | | | | | 33.39272 | 111.9776 | | 33 | 23 | 33.77634 | 111 | 58 | 39.50714 | 33 | 23 | 33.94133 | 111 | 58 | 42.02789 | 265309 | 207623 |
| SCOR N | 32 | 1 N | 4 E | P&M | 3 | | 481389.7 | 870390.6 | C | 1159 | 331113 | | | 7 | 33.39272 | 111.9776 | 1684 | 33 | 23 | 33.77634 | 111 | 58 | 39.50714 | 33 | 23 | 33.94133 | 111 | 58 | 42.02789 | 265309 | 207623 |
| SCOR S | 32 | 1 S | 4 E | SRP PHA | 4 | 1986 | 480759 | 833268.9 | C | 0 | 331113 | | | 7 | 33.29068 | 111.9796 | 1683 | 33 | 17 | 26.46496 | 111 | 58 | 46.68206 | 33 | 17 | 26.63882 | 111 | 58 | 49.19785 | 253994 | 207430 |
| SCOR S | 32 | 1 N | 4 E | PHXCITY | 4 | | 481370.1 | 865085.8 | C | 1212 | 331113 | | | 7 | 33.37814 | 111.9777 | 1684 | 33 | 22 | 41.28731 | 111 | 58 | 39.70237 | 33 | 22 | 41.45358 | 111 | 58 | 42.22239 | 263692 | 207617 |
| SUPER | 32 | 1 N | 4 E | P&M | 3 | 1988 | 486165.8 | 868715.4 | C | 0 | 331113 | 2661 | | 7 | 33.38812 | 111.962 | 1684 | 33 | 23 | 17.22505 | 111 | 57 | 43.16524 | 33 | 23 | 17.39093 | 111 | 57 | 45.68401 | 264799 | 209078 |
| SUPER 2 | 32 | 1 N | 4 E | GPS | 2 | 1993 | 486165.9 | 868715.7 | C | 1198.83 | 331113 | 3230 | | 7 | 33.38812 | 111.962 | 1684 | 33 | 23 | 17.22721 | 111 | 57 | 43.16362 | 33 | 23 | 17.39309 | 111 | 57 | 45.68239 | 264799 | 209078 |
| 2005- 4 | 33 | 1 N | 4 E | P&M | 3 | 1982 | 487016 | 868379.2 | C | 1192.84 | 331113 | 2005 | | 7 | 33.3872 | 111.9592 | 1684 | 33 | 23 | 13.90198 | 111 | 57 | 33.13555 | 33 | 23 | 14.06802 | 111 | 57 | 35.65396 | 264696 | 209337 |
| 2005- 5 | 33 | 1 N | 4 E | P&M | 3 | 1982 | 489352.5 | 867627.4 | C | 0 | 331113 | 2005 | | 7 | 33.38513 | 111.9515 | 1684 | 33 | 23 | 6.47141 | 111 | 57 | 5.57557 | 33 | 23 | 6.63788 | 111 | 57 | 8.09302 | 264467 | 210050 |
| 2005- 6 | 33 | 1 N | 4 E | P&M | 3 | 1982 | 491940.1 | 867905.3 | C | 0 | 331113 | 2005 | | 7 | 33.3859 | 111.9431 | 1684 | 33 | 23 | 9.22887 | 111 | 56 | 35.05869 | 33 | 23 | 9.39553 | 111 | 56 | 37.57523 | 264552 | 210838 |
| 2583- 21 | 33 | 1 S | 4 E | P&M | 3 | 1988 | 491328.4 | 834589.8 | C | 0 | 331113 | 2583 | | 7 | 33.29433 | 111.945 | 1683 | 33 | 17 | 39.58049 | 111 | 56 | 42.16654 | 33 | 17 | 39.75535 | 111 | 56 | 44.67854 | 254397 | 210652 |
| 2661- 4 | 33 | 1 N | 4 E | P&M | 3 | 1988 | 487897.7 | 867765.7 | C | 0 | 331113 | 2661 | | 7 | 33.38551 | 111.9563 | 1684 | 33 | 23 | 7.83457 | 111 | 57 | 22.73387 | 33 | 23 | 8.00085 | 111 | 57 | 25.25187 | 264509 | 209606 |
| 2661- 5 | 33 | 1 N | 4 E | P&M | 3 | 1988 | 486787.7 | 868047.8 | C | 0 | 331113 | 2661 | | 7 | 33.38628 | 111.96 | 1684 | 33 | 23 | 10.62139 | 111 | 57 | 35.82655 | 33 | 23 | 10.78749 | 111 | 57 | 38.345 | 264595 | 209268 |
| 2661- 10 | 33 | 1 N | 4 E | P&M | 3 | 1988 | 489333.7 | 867564.5 | C | 1176.71 | 331113 | 2661 | | 7 | 33.38496 | 111.9516 | 1684 | 33 | 23 | 5.84912 | 111 | 57 | 5.79739 | 33 | 23 | 6.0156 | 111 | 57 | 8.31484 | 264448 | 210044 |
| 2661- 11 | 33 | 1 N | 4 E | P&M | 3 | 1988 | 489317.7 | 867047.6 | C | 0 | 331113 | 2661 | | 7 | 33.38354 | 111.9517 | 1684 | 33 | 23 | 0.73429 | 111 | 57 | 5.98372 | 33 | 23 | 0.90089 | 111 | 57 | 8.5011 | 264290 | 210039 |
| 2681- 1 | 33 | 1 S | 4 E | P&M | 3 | 1988 | 490068.8 | 835907.6 | C | 0 | 331113 | 2681 | | 7 | 33.29795 | 111.9492 | 1683 | 33 | 17 | 52.61638 | 111 | 56 | 57.01164 | 33 | 17 | 52.79076 | 111 | 56 | 59.5243 | 254799 | 210268 |
| 2681- 2 | 33 | 1 S | 4 E | P&M | 3 | 1988 | 488856.5 | 834450.1 | C | 0 | 331113 | 2681 | | 7 | 33.29394 | 111.9531 | 1683 | 33 | 17 | 38.19127 | 111 | 57 | 11.28884 | 33 | 17 | 38.36586 | 111 | 57 | 13.80175 | 254355 | 209899 |
| CCOR CT | 33 | 1 N | 4 E | TEMPEC | 3 | 1984 | 489334.1 | 867765 | C | 0 | 331113 | | "PANEL ""X"" IN CONC. @ FREEWAY & HARDY" | 7 | 33.38551 | 111.9516 | 1684 | 33 | 23 | 7.83255 | 111 | 57 | 5.79292 | 33 | 23 | 7.99898 | 111 | 57 | 8.3104 | 264509 | 210044 |
| HARDY R | 33 | 1 N | 4 E | P&M | 3 | 1982 | 489336.5 | 867914.3 | C | 0 | 331113 | 2005 | CONSTRUCTION BRASS CAP | 7 | 33.38592 | 111.9516 | 1684 | 33 | 23 | 9.31063 | 111 | 57 | 5.76555 | 33 | 23 | 9.47702 | 111 | 57 | 8.28305 | 264554 | 210045 |
| LEZLEY | 33 | 1 S | 4 E | COOPER | 2 | 1988 | 491314.6 | 833369.4 | C | 0 | 331113 | 2583 | | 7 | 33.29097 | 111.9451 | 1683 | 33 | 17 | 27.50471 | 111 | 56 | 42.32441 | 33 | 17 | 27.67988 | 111 | 56 | 44.83624 | 254025 | 210648 |
| QCOR N | 33 | 1 N | 4 E | TEMPEC | 3 | 1984 | 489397.9 | 870421.6 | C | 0 | 331113 | | BRASS CAP @ HARDY & SOUTHERN | 7 | 33.39281 | 111.9514 | 1684 | 33 | 23 | 34.11952 | 111 | 57 | 5.05128 | 33 | 23 | 34.2853 | 111 | 57 | 7.56911 | 265319 | 210063 |
| QCOR S | 33 | 1 N | 4 E | TEMPEC | 3 | 1984 | 489272.9 | 865109.6 | C | 0 | | | RDY | | 33.37821 | 111.9518 | | 33 | 22 | 41.55834 | 111 | 57 | 6.50526 | 33 | 22 | 41.72542 | 111 | 57 | 9.02238 | 263700 | 210025 |
| QCOR S | 33 | 1 N | 4 E | TEMPEC | 3 | 1984 | 489272.9 | 865109.6 | C | 0 | 331113 | | BRASS CAP @ BASELINE & HARDY | 7 | 33.37821 | 111.9518 | 1684 | 33 | 22 | 41.55834 | 111 | 57 | 6.50526 | 33 | 22 | 41.72542 | 111 | 57 | 9.02238 | 263700 | 210025 |
| QCOR W | 33 | 1 N | 4 E | P&M | 3 | 1988 | 486719.2 | 867763.9 | C | 0 | 331113 | 2661 | BRASS CAP @ PRIEST & N.LINE M.H.P.EAST | 7 | 33.3855 | 111.9602 | 1684 | 33 | 23 | 7.81233 | 111 | 57 | 36.63354 | 33 | 23 | 7.9785 | 111 | 57 | 39.15197 | 264509 | 209247 |
| SCOR N | 33 | 1 S | 4 E | P&M | 3 | | 486037.9 | 838554.2 | C | 0 | 331113 | | | 7 | 33.30522 | 111.9624 | 1683 | 33 | 18 | 18.78923 | 111 | 57 | 44.51748 | 33 | 18 | 18.96246 | 111 | 57 | 47.03203 | 255605 | 209039 |
| SCOR N | 33 | 1 N | 4 E | P&M | 3 | 1988 | 486755.8 | 870421.8 | C | 1165 | 331113 | 2661 | BRASS CAP @ SOUTHERN & PRIEST | 7 | 33.39281 | 111.9601 | 1684 | 33 | 23 | 34.11121 | 111 | 57 | 36.21536 | 33 | 23 | 34.27673 | 111 | 57 | 38.73416 | 265319 | 209258 |
| SCOR SE | 33 | 1 N | 4 E | P&M | 3 | | 491908.7 | 865092.9 | C | 0 | 331113 | | | 7 | 33.37817 | 111.9432 | 1684 | 33 | 22 | 41.40131 | 111 | 56 | 35.4208 | 33 | 22 | 41.56866 | 111 | 56 | 37.93695 | 263695 | 210829 |
| SCOR S | 33 | 1 S | 4 E | P&M DIGI | 5 | | 486033 | 833286 | C | 0 | 331113 | | | 7 | 33.29074 | 111.9624 | 1683 | 33 | 17 | 26.66132 | 111 | 57 | 44.54829 | 33 | 17 | 26.83584 | 111 | 57 | 47.0621 | 254000 | 209038 |
| SCOR S | 33 | 1 N | 4 E | P&M | 3 | 1988 | 486638.7 | 865108.8 | C | 0 | 331113 | 2661 | | 7 | 33.37821 | 111.9604 | 1684 | 33 | 22 | 41.54048 | 111 | 57 | 37.56936 | 33 | 22 | 41.70729 | 111 | 57 | 40.08745 | 263699 | 209222 |
| 2005- 7 | 34 | 1 N | 4 E | P&M | 3 | 1982 | 494611.8 | 867768.3 | C | 1201.1 | 331113 | 2005 | | 7 | 33.38552 | 111.9343 | 1684 | 33 | 23 | 7.87913 | 111 | 56 | 3.54827 | 33 | 23 | 8.04609 | 111 | 56 | 6.06381 | 264510 | 211653 |
| 2583- 20 | 34 | 1 S | 4 E | P&M | 3 | 1988 | 493975.1 | 833785.3 | C | 0 | 331113 | 2583 | | 7 | 33.29212 | 111.9364 | 1683 | 33 | 17 | 31.62611 | 111 | 56 | 10.98127 | 33 | 17 | 31.80151 | 111 | 56 | 13.49216 | 254152 | 211459 |
| 2583- 23 | 34 | 1 S | 4 E | P&M | 3 | 1988 | 491375.4 | 835451.6 | C | 0 | 331113 | 2583 | | 7 | 33.2967 | 111.9449 | 1683 | 33 | 17 | 48.10791 | 111 | 56 | 41.61515 | 33 | 17 | 48.28257 | 111 | 56 | 44.12726 | 254660 | 210666 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LEZLEY | 34 | 1 S | 4 E | GPS | 2 | 1991 | 491314.5 | 833369.3 C | 1163.04 | 331113 | 3122 | | 7 | 33.29097 | 111.9451 | 1683 | 33 | 17 | 27.50405 | 111 | 56 | 42.32621 | 33 | 17 | 27.67922 | 111 | 56 | 44.83804 | 254025 | 210648 |
| QCOR N | 34 | 1 N | 4 E | TEMPEC | 3 | 1984 | 494645.9 | 870435.4 C | 0 | 331113 | | BRASS CAP @ SOUTHERN & COLLEGE | 7 | 33.39285 | 111.9342 | 1684 | 33 | 23 | 34.26849 | 111 | 56 | 3.1511 | 33 | 23 | 34.43479 | 111 | 56 | 5.66702 | 265323 | 211663 |
| QCOR S | 34 | 1 S | 4 E | P&M | 3 | 1988 | 494006.4 | 833290.9 C | 0 | | | | | 33.29076 | 111.9363 | | 33 | 17 | 26.73438 | 111 | 56 | 10.61191 | 33 | 17 | 26.9099 | 111 | 56 | 13.12272 | 254001 | 211468 |
| QCOR S | 34 | 1 S | 4 E | P&M | 3 | 1988 | 494006.4 | 833290.9 C | 0 | 331113 | 2583 | | 7 | 33.29076 | 111.9363 | 1683 | 33 | 17 | 26.73438 | 111 | 56 | 10.61191 | 33 | 17 | 26.9099 | 111 | 56 | 13.12272 | 254001 | 211468 |
| QCOR S | 34 | 1 N | 4 E | TEMPEC | 3 | 1984 | 494540.5 | 865099.2 C | 0 | 331113 | | @ BASELINE & COLLEGE | 7 | 33.37819 | 111.9346 | 1684 | 33 | 22 | 41.46889 | 111 | 56 | 4.38378 | 33 | 22 | 41.63651 | 111 | 56 | 6.89897 | 263696 | 211631 |
| QCOR W | 34 | 1 S | 4 E | P&M | 3 | 1988 | 491346.7 | 835932.7 C | 0 | 331113 | 2583 | | 7 | 33.29802 | 111.945 | 1683 | 33 | 17 | 52.86846 | 111 | 56 | 41.95471 | 33 | 17 | 53.04299 | 111 | 56 | 44.4669 | 254806 | 210658 |
| QCOR W | 34 | 1 N | 4 E | TEMPEC | 3 | 1984 | 491966.8 | 867760.3 C | 0 | 331113 | | "PANEL ""X"" IN CONC. @ FREEWAY & KYRENE" | 7 | 33.3855 | 111.943 | 1684 | 33 | 23 | 7.7938 | 111 | 56 | 34.74302 | 33 | 23 | 7.9605 | 111 | 56 | 37.25953 | 264508 | 210847 |
| SCOR N | 34 | 1 S | 4 E | P&M DIGI | 5 | | 491364 | 838573 C | 0 | 331113 | | | 7 | 33.30528 | 111.9449 | 1683 | 33 | 18 | 18.99358 | 111 | 56 | 41.75949 | 33 | 18 | 19.16746 | 111 | 56 | 44.27205 | 255611 | 210663 |
| SCOR N | 34 | 1 N | 4 E | TEMPEC | 3 | 1984 | 492025.1 | 870410.7 C | 0 | 331113 | | IN PANEL @ SOUTHERN & R.R. TRACKS | 7 | 33.39278 | 111.9426 | 1684 | 33 | 23 | 34.01926 | 111 | 56 | 34.06361 | 33 | 23 | 34.1853 | 111 | 56 | 36.58048 | 265315 | 210864 |
| SCOR S | 34 | 1 S | 4 E | P&M DIGI | 5 | | 491387 | 833246 C | 0 | 331113 | | | 7 | 33.29063 | 111.9449 | 1683 | 33 | 17 | 26.28428 | 111 | 56 | 41.47152 | 33 | 17 | 26.45948 | 111 | 56 | 43.98331 | 253988 | 210670 |
| SCOR S | 34 | 1 S | 4 E | P&M | 3 | 1988 | 491352.6 | 833284.2 C | 0 | 331113 | 2583 | | 7 | 33.29074 | 111.945 | 1683 | 33 | 17 | 26.66248 | 111 | 56 | 41.87665 | 33 | 17 | 26.83767 | 111 | 56 | 44.38846 | 253999 | 210659 |
| SCOR S | 34 | 1 N | 4 E | TEMPEC | 3 | 1984 | 491908.4 | 865109.7 C | 0 | 331113 | | BRASS CAP @ BASELINE & KYRENE TO NORTH | 7 | 33.37821 | 111.9432 | 1684 | 33 | 22 | 41.567 | 111 | 56 | 35.42452 | 33 | 22 | 41.73435 | 111 | 56 | 37.94067 | 263700 | 210829 |
| VCP-AA | 34 | 1 N | 4 E | P&M | 3 | 1982 | 491995.5 | 868172.3 C | 0 | 331113 | 2005 | | 7 | 33.38663 | 111.9429 | 1684 | 33 | 23 | 11.87085 | 111 | 56 | 34.40658 | 33 | 23 | 12.03745 | 111 | 56 | 36.92314 | 264633 | 210855 |
| 2005- 8 | 35 | 1 N | 4 E | P&M | 3 | 1982 | 497220.4 | 867780.2 C | 0 | 331113 | 2005 | TACK IN LEAD PLUG PAINTED 1/4 COR. | 7 | 33.38556 | 111.9258 | 1684 | 33 | 23 | 7.99954 | 111 | 55 | 32.7823 | 33 | 23 | 8.16676 | 111 | 55 | 35.29689 | 264514 | 212448 |
| 2416- 3 | 35 | 1 N | 4 E | P&M | 3 | 1987 | 500057 | 867870.3 C | 0 | | | | | 33.3858 | 111.9165 | | 33 | 23 | 8.89278 | 111 | 54 | 59.32833 | 33 | 23 | 9.06027 | 111 | 55 | 1.8419 | 264541 | 213312 |
| 2416- 3 | 35 | 1 N | 4 E | P&M | 3 | 1987 | 500057 | 867870.3 C | 0 | 331113 | 2416 | | 7 | 33.3858 | 111.9165 | 1684 | 33 | 23 | 8.89278 | 111 | 54 | 59.32833 | 33 | 23 | 9.06027 | 111 | 55 | 1.8419 | 264541 | 213312 |
| 2583- 17 | 35 | 1 S | 4 E | P&M | 3 | 1988 | 500378.5 | 833388.1 C | 0 | 331113 | 2583 | | 7 | 33.29103 | 111.9154 | 1683 | 33 | 17 | 27.70228 | 111 | 54 | 55.54086 | 33 | 17 | 27.87858 | 111 | 54 | 58.04929 | 254031 | 213410 |
| 2583- 18 | 35 | 1 S | 4 E | P&M | 3 | 1988 | 499217.5 | 833359.5 C | 0 | 331113 | 2583 | | 7 | 33.29095 | 111.9192 | 1683 | 33 | 17 | 27.41847 | 111 | 55 | 9.21939 | 33 | 17 | 27.59463 | 111 | 55 | 11.72825 | 254022 | 213057 |
| 2583- 19 | 35 | 1 S | 4 E | P&M | 3 | 1988 | 496451.8 | 833354.4 C | 0 | 331113 | 2583 | | 7 | 33.29094 | 111.9283 | 1683 | 33 | 17 | 27.366 | 111 | 55 | 41.80278 | 33 | 17 | 27.54181 | 111 | 55 | 44.31268 | 254021 | 212214 |
| 2583- 24 | 35 | 1 S | 4 E | P&M | 3 | 1988 | 501922.2 | 834849.1 C | 0 | 331113 | 2583 | | 7 | 33.29504 | 111.9104 | 1683 | 33 | 17 | 42.15771 | 111 | 54 | 37.3534 | 33 | 17 | 42.33383 | 111 | 54 | 39.86146 | 254476 | 213881 |
| 2583- 26 | 35 | 1 S | 4 E | P&M | 3 | 1988 | 501858.3 | 838505 C | 0 | 331113 | 2583 | | 7 | 33.30509 | 111.9106 | 1683 | 33 | 18 | 18.33164 | 111 | 54 | 38.10294 | 33 | 18 | 18.50682 | 111 | 54 | 40.61156 | 255590 | 213862 |
| QCOR N | 35 | 1 N | 4 E | LOCATIO | 3 | 1976 | 499890.6 | 870457 C | 0 | 331113 | | | 7 | 33.39291 | 111.917 | 1684 | 33 | 23 | 34.48666 | 111 | 55 | 1.28989 | 33 | 23 | 34.65347 | 111 | 55 | 3.80389 | 265329 | 213262 |
| QCOR N | 35 | 1 N | 4 E | TEMPEC | 3 | 1984 | 499889.5 | 870456.2 C | 0 | 331113 | | BRASS CAP @ DORSEY & SOUTHERN | 7 | 33.39291 | 111.917 | 1684 | 33 | 23 | 34.47885 | 111 | 55 | 1.30329 | 33 | 23 | 34.64566 | 111 | 55 | 3.81729 | 265329 | 213261 |
| QCOR N | 35 | 1 N | 4 E | P&M | 3 | 1987 | 499890 | 870457 C | 0 | 331113 | 2416 | | 7 | 33.39291 | 111.917 | 1684 | 33 | 23 | 34.487 | 111 | 55 | 1.29753 | 33 | 23 | 34.65381 | 111 | 55 | 3.81153 | 265330 | 213262 |
| QCOR S | 35 | 1 S | 4 E | P&M | 3 | 1988 | 499314.3 | 833304.4 C | 0 | 331113 | 2583 | | 7 | 33.2908 | 111.9189 | 1683 | 33 | 17 | 26.8735 | 111 | 55 | 8.07867 | 33 | 17 | 27.04969 | 111 | 55 | 10.58748 | 254005 | 213086 |
| QCOR S | 35 | 1 N | 4 E | LOCATIO | 3 | 1976 | 499825.4 | 865139.1 C | 0 | 331113 | | | 7 | 33.3783 | 111.9172 | 1684 | 33 | 22 | 41.86867 | 111 | 55 | 2.05869 | 33 | 22 | 42.03683 | 111 | 55 | 4.57194 | 263709 | 213242 |
| QCOR S | 35 | 1 N | 4 E | TEMPEC | 3 | 1984 | 499823.6 | 865138.4 C | 0 | 331113 | | "1/2""IRON PIPE @ BASELINE 100'W DORSEY" | 7 | 33.37829 | 111.9172 | 1684 | 33 | 22 | 41.86134 | 111 | 55 | 2.08006 | 33 | 22 | 42.0295 | 111 | 55 | 4.59331 | 263708 | 213241 |
| QCOR W | 35 | 1 N | 4 E | LOCATIO | 3 | 1976 | 497221.4 | 867780.3 C | 0 | 331113 | | | 7 | 33.38556 | 111.9258 | 1684 | 33 | 23 | 8.00107 | 111 | 55 | 32.77123 | 33 | 23 | 8.16829 | 111 | 55 | 35.28582 | 264514 | 212448 |
| QCOR W | 35 | 1 N | 4 E | P&M | 3 | 1987 | 497220.5 | 867780.7 C | 0 | 331113 | 2416 | | 7 | 33.38556 | 111.9258 | 1684 | 33 | 23 | 8.00453 | 111 | 55 | 32.78119 | 33 | 23 | 8.17175 | 111 | 55 | 35.29578 | 264514 | 212448 |
| QCOR W | 35 | 1 N | 4 E | TEMPEC | 3 | 1984 | 497219.9 | 867780.1 C | 0 | 331113 | | @ RURAL & FREEWAY | 7 | 33.38556 | 111.9258 | 1684 | 33 | 23 | 7.99907 | 111 | 55 | 32.78835 | 33 | 23 | 8.16629 | 111 | 55 | 35.30294 | 264514 | 212448 |
| SCOR N | 35 | 1 S | 4 E | P&M | 3 | 1988 | 496562.4 | 838617 C | 0 | 331113 | 2583 | | 7 | 33.3054 | 111.9279 | 1683 | 33 | 18 | 19.4384 | 111 | 55 | 40.50604 | 33 | 18 | 19.6129 | 111 | 55 | 43.01666 | 255625 | 212247 |
| SCOR N | 35 | 1 N | 4 E | LOCATIO | 3 | 1976 | 497268.2 | 870455.2 C | 0 | 331113 | | | 7 | 33.39291 | 111.9256 | 1684 | 33 | 23 | 34.46799 | 111 | 55 | 32.22148 | 33 | 23 | 34.63454 | 111 | 55 | 34.73644 | 265329 | 212462 |
| SCOR N | 35 | 1 N | 4 E | P&M | 3 | | 497267.7 | 870454.7 C | 0 | 331113 | | | 7 | 33.39291 | 111.9256 | 1684 | 33 | 23 | 34.46338 | 111 | 55 | 32.22736 | 33 | 23 | 34.62993 | 111 | 55 | 34.74232 | 265329 | 212462 |
| SCOR N | 35 | 1 N | 4 E | P&M | 3 | 1987 | 497267.5 | 870455.4 C | 0 | 331113 | 2416 | | 7 | 33.39291 | 111.9256 | 1684 | 33 | 23 | 34.46998 | 111 | 55 | 32.22957 | 33 | 23 | 34.63653 | 111 | 55 | 34.74453 | 265329 | 212462 |
| SCOR N | 35 | 1 N | 4 E | TEMPEC | 3 | 1984 | 497266.9 | 870454.8 C | 0 | 331113 | | BRASS CAP @ RURAL & SOUTHERN | 7 | 33.39291 | 111.9256 | 1684 | 33 | 23 | 34.46355 | 111 | 55 | 32.23634 | 33 | 23 | 34.6301 | 111 | 55 | 34.7513 | 265329 | 212462 |
| SCOR SE | 35 | 1 N | 4 E | P&M | 3 | | 502475.6 | 865172.4 C | 0 | 331113 | | | 7 | 33.37839 | 111.9086 | 1684 | 33 | 22 | 42.19685 | 111 | 54 | 30.8054 | 33 | 22 | 42.36527 | 111 | 54 | 33.31768 | 263719 | 214050 |
| SCOR S | 35 | 1 S | 4 E | P&M DIGI | 5 | | 496520 | 833242 C | 0 | 331113 | | | 7 | 33.29063 | 111.9281 | 1683 | 33 | 17 | 26.25433 | 111 | 55 | 40.99859 | 33 | 17 | 26.43018 | 111 | 55 | 43.50845 | 253986 | 212234 |
| SCOR S | 35 | 1 N | 4 E | P&M | 3 | 1987 | 497173.2 | 865105.7 C | 0 | 331113 | 2416 | | 7 | 33.3782 | 111.9259 | 1684 | 33 | 22 | 41.53624 | 111 | 55 | 33.33603 | 33 | 22 | 41.70413 | 111 | 55 | 35.85025 | 263698 | 212433 |
| ~~2006- 1~~ | ~~36~~ | ~~1 N~~ | ~~4 E~~ | ~~P&M~~ | ~~3~~ | ~~1982~~ | ~~505210.8~~ | ~~867742 C~~ | ~~1185.3~~ | ~~331113~~ | ~~2005~~ | | ~~7~~ | ~~33.38545~~ | ~~111.8996~~ | ~~1684~~ | ~~33~~ | ~~23~~ | ~~7.61836~~ | ~~111~~ | ~~53~~ | ~~58.544~~ | ~~33~~ | ~~23~~ | ~~7.7864~~ | ~~111~~ | ~~54~~ | ~~1.05566~~ | ~~264502~~ | ~~214808~~ |
| 2006- 2 | 36 | 1 N | 4 E | P&M | 3 | 1982 | 507590.1 | 868041.4 C | 1194.83 | 331113 | 2005 | | 7 | 33.38627 | 111.8918 | 1684 | 33 | 23 | 10.57609 | 111 | 53 | 30.48173 | 33 | 23 | 10.74429 | 111 | 53 | 32.99256 | 264593 | 215609 |
| 2006- 3 | 36 | 1 N | 4 E | P&M | 3 | 1982 | 507746.8 | 866539.4 C | 1199.23 | 331113 | 2005 | | 7 | 33.38214 | 111.8913 | 1684 | 33 | 22 | 55.71441 | 111 | 53 | 28.63738 | 33 | 22 | 55.88302 | 111 | 53 | 31.14793 | 264135 | 215656 |
| 2416- 1 | 36 | 1 N | 4 E | P&M | 3 | 1987 | 505997.2 | 867881.3 C | 0 | 331113 | 2416 | | 7 | 33.38583 | 111.897 | 1684 | 33 | 23 | 8.99606 | 111 | 53 | 49.26843 | 33 | 23 | 9.16415 | 111 | 53 | 51.77982 | 264544 | 215123 |
| 2416- 2 | 36 | 1 N | 4 E | P&M | 3 | 1987 | 503888.4 | 867891.8 C | 0 | 331113 | 2416 | | 7 | 33.38586 | 111.9039 | 1684 | 33 | 23 | 9.10265 | 111 | 54 | 14.1403 | 33 | 23 | 9.27052 | 111 | 54 | 16.65247 | 264548 | 214480 |
| 2416- 4 | 36 | 1 N | 4 E | P&M | 3 | 1987 | 502499.2 | 867736.4 C | 0 | | | | | 33.38544 | 111.9085 | | 33 | 23 | 7.56654 | 111 | 54 | 30.52506 | 33 | 23 | 7.73431 | 111 | 54 | 33.03771 | 264500 | 214057 |
| 2416- 4 | 36 | 1 N | 4 E | P&M | 3 | 1987 | 502499.2 | 867736.4 C | 0 | 331113 | 2416 | | 7 | 33.38544 | 111.9085 | 1684 | 33 | 23 | 7.56654 | 111 | 54 | 30.52506 | 33 | 23 | 7.73431 | 111 | 54 | 33.03771 | 264500 | 214057 |
| 2416- 5 | 36 | 1 N | 4 E | P&M | 3 | 1987 | 505214.2 | 867751 C | 0 | 331113 | 2416 | | 7 | 33.38547 | 111.8996 | 1684 | 33 | 23 | 7.70786 | 111 | 53 | 58.50336 | 33 | 23 | 7.8759 | 111 | 54 | 1.01502 | 264505 | 214884 |
| 3012- 3 | 36 | 1 N | 4 E | ESS GPS | 3 | 1991 | 507450.3 | 865493.4 C | 0 | 331113 | 3012 | | 7 | 33.37927 | 111.8923 | 1684 | 33 | 22 | 45.36574 | 111 | 53 | 32.13708 | 33 | 22 | 45.53459 | 111 | 53 | 34.64759 | 263817 | 215566 |
| 360- D | 36 | 1 N | 4 E | P&M | 3 | 1987 | 502548.3 | 867918.4 C | 0 | 331113 | 2416 | | 7 | 33.38594 | 111.9083 | 1684 | 33 | 23 | 9.36709 | 111 | 54 | 29.94475 | 33 | 23 | 9.53482 | 111 | 54 | 32.45741 | 264556 | 214072 |
| 360-D | 36 | 1 N | 4 E | GPS | 2 | 1991 | 502548.4 | 867918.4 C | 1190.12 | 331113 | 3090 | | 7 | 33.38594 | 111.9083 | 1684 | 33 | 23 | 9.36716 | 111 | 54 | 29.94452 | 33 | 23 | 9.53489 | 111 | 54 | 32.45718 | 264556 | 214072 |
| 665- 10 | 36 | 1 N | 4 E | P&M | 3 | 1968 | 507735.3 | 866294.7 C | 1196.72 | 331113 | 665 | | 707 | 33.38147 | 111.8913 | 1684 | 33 | 22 | 53.29314 | 111 | 53 | 28.77434 | 33 | 22 | 53.46181 | 111 | 53 | 31.28486 | 264061 | 215653 |
| QCOR N | 36 | 1 S | 4 E | P&M | 3 | 1988 | 504566 | 838681 C | 0 | 331113 | 2582 | | 7 | 33.30558 | 111.9017 | 1683 | 33 | 18 | 20.07055 | 111 | 54 | 6.19795 | 33 | 18 | 20.24601 | 111 | 54 | 8.70558 | 255644 | 214687 |
| QCOR N | 36 | 1 N | 4 E | LOCATIO | 3 | 1976 | 505133.5 | 870463 C | 0 | 331113 | | | 7 | 33.39293 | 111.8998 | 1684 | 33 | 23 | 34.54232 | 111 | 53 | 59.45073 | 33 | 23 | 34.70965 | 111 | 54 | 1.96282 | 265331 | 214860 |
| QCOR N | 36 | 1 N | 4 E | P&M | 3 | 1984 | 505132.8 | 870462.7 C | 1189.31 | 331113 | 2125 | | 7 | 33.39293 | 111.8998 | 1684 | 33 | 23 | 34.53891 | 111 | 53 | 59.45875 | 33 | 23 | 34.70624 | 111 | 54 | 1.97084 | 265331 | 214860 |
| QCOR S | 36 | 1 S | 4 E | P&M | 3 | 1988 | 504580.2 | 833437.7 C | 0 | 331113 | 2583 | | 7 | 33.29116 | 111.9017 | 1683 | 33 | 17 | 28.18932 | 111 | 54 | 6.03912 | 33 | 17 | 28.36614 | 111 | 54 | 8.54597 | 254046 | 214691 |
| QCOR S | 36 | 1 N | 4 E | LOCATIO | 3 | 1976 | 505108.5 | 865177.6 C | 0 | 331113 | | | 7 | 33.3784 | 111.8999 | 1684 | 33 | 22 | 42.24479 | 111 | 53 | 59.7556 | 33 | 22 | 42.41348 | 111 | 54 | 2.26692 | 263720 | 214852 |
| QCOR S | 36 | 1 N | 4 E | P&M | 3 | 1987 | 505107.9 | 865177.2 C | 0 | 331113 | 2416 | | 7 | 33.3784 | 111.8999 | 1684 | 33 | 22 | 42.24103 | 111 | 53 | 59.76217 | 33 | 22 | 42.40972 | 111 | 54 | 2.27349 | 263720 | 214852 |
| QCOR S | 36 | 1 N | 4 E | TEMPEC | 3 | 1984 | 505106.6 | 865176.1 C | 0 | 331113 | | @ BASELINE & COUNTRY CLUB WAY | 7 | 33.3784 | 111.8999 | 1684 | 33 | 22 | 42.22995 | 111 | 53 | 59.77727 | 33 | 22 | 42.39864 | 111 | 54 | 2.28859 | 263720 | 214852 |
| QCOR S | 36 | 1 N | 4 E | P&M | 3 | 1984 | 505107.3 | 865177.2 C | 1187.5 | 331113 | 2125 | | 7 | 33.3784 | 111.8999 | 1684 | 33 | 22 | 42.24088 | 111 | 53 | 59.76895 | 33 | 22 | 42.40957 | 111 | 54 | 2.28027 | 263720 | 214852 |
| QCOR W | 36 | 1 S | 4 E | P&M | 3 | 1988 | 501897.6 | 835985.3 C | 0 | 331113 | 2583 | | 7 | 33.29817 | 111.9105 | 1683 | 33 | 17 | 53.39981 | 111 | 54 | 37.64249 | 33 | 17 | 53.57564 | 111 | 54 | 40.15072 | 254822 | 213873 |
| QCOR W | 36 | 1 N | 4 E | LOCATIO | 3 | 1976 | 502494.7 | 867815.7 C | 0 | 331113 | | | 7 | 33.38565 | 111.9085 | 1684 | 33 | 23 | 8.35103 | 111 | 54 | 30.57706 | 33 | 23 | 8.51878 | 111 | 54 | 33.08972 | 264524 | 214055 |
| QCOR W | 36 | 1 N | 4 E | P&M | 3 | 1987 | 502494 | 867815.1 C | 0 | 331113 | 2416 | | 7 | 33.38565 | 111.9085 | 1684 | 33 | 23 | 8.34588 | 111 | 54 | 30.58605 | 33 | 23 | 8.51363 | 111 | 54 | 33.09871 | 264524 | 214055 |
| QCOR W | 36 | 1 N | 4 E | TEMPEC | 3 | 1984 | 502493.2 | 867814.7 C | 0 | 331113 | | SET IN LEAD @ MC CLINTOCK & FREEWAY | 7 | 33.38565 | 111.9085 | 1684 | 33 | 23 | 8.34157 | 111 | 54 | 30.5957 | 33 | 23 | 8.50932 | 111 | 54 | 33.10836 | 264524 | 214055 |
| RICE | 36 | 1 S | 4 E | GPS | 2 | 1988 | 507247.4 | 833907.7 C | 0 | 331113 | 2582 | | 7 | 33.29245 | 111.8929 | 1683 | 33 | 17 | 32.83544 | 111 | 53 | 34.61571 | 33 | 17 | 33.01247 | 111 | 53 | 37.12163 | 254189 | 215504 |
| SCOR N | 36 | 1 S | 4 E | P&M DIGI | 5 | | 501918 | 838561 C | 0 | 331113 | | | 7 | 33.30525 | 111.9104 | 1683 | 33 | 18 | 18.88585 | 111 | 54 | 37.39988 | 33 | 18 | 19.06102 | 111 | 54 | 39.90848 | 255608 | 213880 |
| SCOR N | 36 | 1 N | 4 E | LOCATIO | 3 | 1976 | 502513 | 870458.4 C | 1187 | 331113 | | | 7 | 33.39292 | 111.9084 | 1684 | 33 | 23 | 34.50003 | 111 | 54 | 30.35904 | 33 | 23 | 34.6671 | 111 | 54 | 32.87208 | 265330 | 214061 |
| SCOR N | 36 | 1 N | 4 E | TEMPEC | 3 | 1984 | 502512 | 870457.4 C | 0 | 331113 | | BRASS CAP @ MC CLINTOCK & SOUTHERN | 7 | 33.39291 | 111.9084 | 1684 | 33 | 23 | 34.48945 | 111 | 54 | 30.37146 | 33 | 23 | 34.65652 | 111 | 54 | 32.8845 | 265330 | 214061 |
| SCOR N | 36 | 1 N | 4 E | P&M | 3 | 1987 | 502512.4 | 870458.3 C | 0 | 331113 | 2416 | | 7 | 33.39292 | 111.9084 | 1684 | 33 | 23 | 34.49858 | 111 | 54 | 30.3666 | 33 | 23 | 34.66565 | 111 | 54 | 32.87964 | 265330 | 214061 |
| SCOR SE | 36 | 1 S | 4 E | P&M DIGI | 5 | | 507284 | 833486 C | 0 | 331113 | | | 7 | 33.2913 | 111.8928 | 1683 | 33 | 17 | 28.6623 | 111 | 53 | 34.18505 | 33 | 17 | 28.83944 | 111 | 53 | 36.69089 | 254061 | 215515 |
| SCOR S | 36 | 1 S | 4 E | P&M | 3 | | 501908.6 | 833353.1 C | 0 | 331113 | | | 7 | 33.29093 | 111.9104 | 1683 | 33 | 17 | 27.3552 | 111 | 54 | 37.51441 | 33 | 17 | 27.5317 | 111 | 54 | 40.02226 | 254020 | 213877 |
| SCOR S | 36 | 1 S | 4 E | P&M | 3 | 1988 | 501889.2 | 833369.8 C | 0 | 331113 | 2583 | | 7 | 33.29098 | 111.9105 | 1683 | 33 | 17 | 27.51988 | 111 | 54 | 37.74345 | 33 | 17 | 27.69637 | 111 | 54 | 40.25131 | 254025 | 213871 |
| SCOR S | 36 | 1 N | 4 E | LOCATIO | 3 | 1976 | 502476.5 | 865172.8 C | 1187 | 331113 | | | 7 | 33.37839 | 111.9086 | 1684 | 33 | 22 | 42.20131 | 111 | 54 | 30.79506 | 33 | 22 | 42.36973 | 111 | 54 | 33.30734 | 263719 | 214050 |
| SCOR S | 36 | 1 N | 4 E | P&M | 3 | 1987 | 502475.5 | 865172.6 C | 0 | 331113 | 2416 | | 7 | 33.37839 | 111.9086 | 1684 | 33 | 22 | 42.19896 | 111 | 54 | 30.80586 | 33 | 22 | 42.36738 | 111 | 54 | 33.31814 | 263719 | 214050 |
| SCOR S | 36 | 1 N | 4 E | TEMPEC | 3 | 1984 | 502474.6 | 865171.8 C | 0 | 331113 | | BRASS CAP @ BASELINE & MC CLINTOCK | 7 | 33.37839 | 111.9086 | 1684 | 33 | 22 | 42.19103 | 111 | 54 | 30.81735 | 33 | 22 | 42.35945 | 111 | 54 | 33.32964 | 263719 | 214049 |
| 2416- 8 | 1 | 1 N | 5 E | P&M | 3 | 1987 | 512939.1 | 867636.6 C | 0 | 331113 | 2416 | | 7 | 33.38515 | 111.8743 | 1681 | 33 | 23 | 6.55445 | 111 | 52 | 27.39717 | 33 | 23 | 6.7233 | 111 | 52 | 29.90598 | 264470 | 217239 |
| QCOR W | 1 | 1 S | 5 E | SRP GILB | 3 | 1985 | 533640.4 | 862730.2 C | 0 | | | | | 33.37163 | 111.8065 | | 33 | 22 | 17.85719 | 111 | 48 | 23.3091 | 33 | 22 | 18.02951 | 111 | 48 | 25.80956 | 262974 | 223549 |
| QCOR W | 1 | 1 S | 5 E | SRP GILB | 3 | 1985 | 533640.4 | 862730.2 C | 0 | 331113 | | | 7 | 33.37163 | 111.8065 | 1682 | 33 | 22 | 17.85719 | 111 | 48 | 23.3091 | 33 | 22 | 18.02951 | 111 | 48 | 25.80956 | 262974 | 223549 |
| SCOR N | 1 | 1 S | 5 E | P&M | 3 | | 533644.9 | 865396 C | 0 | 331113 | | | 7 | 33.37895 | 111.8065 | 1681 | 33 | 22 | 44.23404 | 111 | 48 | 23.22275 | 33 | 22 | 44.40562 | 111 | 48 | 25.72363 | 263787 | 223550 |
| CCOR CT | 2 | 1 S | 5 E | SRP GILB | 3 | 1985 | 530971.1 | 862700.5 C | 0 | 331113 | | | 7 | 33.37155 | 111.8152 | 1682 | 33 | 22 | 17.59041 | 111 | 48 | 54.786 | 33 | 22 | 17.76246 | 111 | 48 | 57.28744 | 262965 | 222735 |
| QCOR W | 2 | 1 S | 5 E | SRP GILB | 3 | 1985 | 528302.8 | 862670.9 C | 0 | 331113 | | | 7 | 33.37148 | 111.824 | 1682 | 33 | 22 | 17.32153 | 111 | 49 | 26.25051 | 33 | 22 | 17.4933 | 111 | 49 | 28.75293 | 262956 | 221922 |
| SCOR N | 2 | 1 S | 5 E | SRP MES | 4 | 1986 | 528235.1 | 865328.6 C | 1212.74 | 331113 | | | 7 | 33.37878 | 111.8242 | 1681 | 33 | 22 | 43.61903 | 111 | 49 | 27.02146 | 33 | 22 | 43.79007 | 111 | 49 | 29.52431 | 263766 | 221901 |
| BASELIN | 3 | 1 S | 5 E | AGS | 2 | 1975 | 522897.4 | 864776.3 C | 1208.65 | 331113 | 1400 | "TEMPE-APACHE JCT-COOLIDGE,AZ,GEOD.SURV." | 7 | 33.37728 | 111.8417 | 1681 | 33 | 22 | 38.19657 | 111 | 50 | 29.97358 | 33 | 22 | 38.36721 | 111 | 50 | 32.47831 | 263598 | 220274 |
| QCOR N | 3 | 1 S | 5 E | SRP MES | 4 | 1986 | 525564.2 | 865312.1 C | 1212.7 | 331113 | | | 7 | 33.37874 | 111.8329 | 1681 | 33 | 22 | 43.47793 | 111 | 49 | 58.51936 | 33 | 22 | 43.6487 | 111 | 50 | 1.02319 | 263761 | 221087 |
| QCOR W | 3 | 1 S | 5 E | LOCATIO | 4 | 1980 | 522975.9 | 862659.4 C | 0 | 331113 | | | 7 | 33.37146 | 111.8414 | 1682 | 33 | 22 | 17.25038 | 111 | 50 | 29.06594 | 33 | 22 | 17.4216 | 111 | 50 | 31.57032 | 262953 | 220298 |
| SCOR N | 3 | 1 S | 5 E | LOCATIO | 4 | 1980 | 522894 | 865304.7 C | 0 | 331113 | | | 7 | 33.37873 | 111.8417 | 1681 | 33 | 22 | 43.42517 | 111 | 50 | 30.00946 | 33 | 22 | 43.59566 | 111 | 50 | 32.51427 | 263759 | 220273 |
| CCOR CT | 4 | 1 S | 5 E | SRP MES | 4 | 1986 | 530197.2 | 862657.4 C | 1205.15 | 331113 | | | 7 | 33.37146 | 111.8505 | 1682 | 33 | 22 | 17.24889 | 111 | 51 | 1.83238 | 33 | 22 | 17.41982 | 111 | 51 | 4.33778 | 262952 | 219451 |
| QCOR N | 4 | 1 S | 5 E | LOCATIO | 4 | 1980 | 520945 | 865298.6 C | 0 | 331113 | | | 7 | 33.37872 | 111.8481 | 1681 | 33 | 22 | 43.37835 | 111 | 50 | 52.99458 | 33 | 22 | 43.54864 | 111 | 50 | 55.5001 | 263757 | 219679 |

| STATION | SECTION | TOWNSH | N/S | RANGE | E/W | AGENCY | ORDER | YEAR | 27_X | 27_Y | SPCS_ZO | NGVD29 | DEGREE | JOB NUM | REMARK | COUNTIE | 27_Lat_D | 27_Lon_D | QUAD | 27_Lat_D | 27_Lat_M | 27_Lat_S | 27_Lon_D | 27_Lon_ | 27_Lon_S | 83_Lat_D | 83_Lat_M | 83_Lat_S | 83_Lon_D | 83_Lon_ | 83_Lon_S | ARC_Y | ARC_X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2681- 3 | 0 | 0 | | 0 | | P&M | 3 | 1988 | 487923 | 833327.8 | C | 0 | 331113 | 2681 | | 7 | 33.29086 | 111.9562 | 1683 | 33 | 17 | 27.08283 | 111 | 57 | 22.28217 | 33 | 17 | 27.25758 | 111 | 57 | 24.79527 | 254012 | 209614 |
| 2925- F | 0 | 0 | | 0 | | GPS | 3 | 1993 | 484495.3 | 861536.2 | C | 1269.64 | 331113 | 3223 | | 7 | 33.36838 | 111.9675 | 1683 | 33 | 22 | 6.18116 | 111 | 58 | 2.82672 | 33 | 22 | 6.34862 | 111 | 58 | 5.34509 | 262610 | 208569 |
| 3223- 1 | 0 | 0 | | 0 | | GPS | 3 | 1993 | 483910.8 | 857200 | C | 1271.81 | 331113 | 3223 | | 7 | 33.35646 | 111.9694 | 1683 | 33 | 21 | 23.27369 | 111 | 58 | 9.69327 | 33 | 21 | 23.44214 | 111 | 58 | 12.21125 | 261289 | 208391 |
| 3223- 2 | 0 | 0 | | 0 | | GPS | 3 | 1993 | 483254 | 835908.1 | C | 1173.59 | 331113 | 3223 | | 7 | 33.29794 | 111.9715 | 1683 | 33 | 17 | 52.59298 | 111 | 58 | 17.30501 | 33 | 17 | 52.76652 | 111 | 58 | 19.82023 | 254799 | 208191 |
| 3230- 5 | 0 | 0 | | 0 | | GPS | 3 | 1993 | 484509.5 | 870526.5 | C | 1162.74 | 331113 | 3230 | | 7 | 33.39309 | 111.9674 | 1684 | 33 | 23 | 35.13705 | 111 | 58 | 2.71089 | 33 | 23 | 35.30232 | 111 | 58 | 5.23052 | 265351 | 208573 |
| 3230- 6 | 0 | 0 | | 0 | | GPS | 3 | 1993 | 483845.8 | 868373.3 | C | 1180.33 | 331113 | 3230 | | 7 | 33.38717 | 111.9696 | 1684 | 33 | 23 | 13.82855 | 111 | 58 | 10.52629 | 33 | 23 | 13.99428 | 111 | 58 | 13.04586 | 264694 | 208371 |
| 3230- 7 | 0 | 0 | | 0 | | GPS | 3 | 1993 | 491986.3 | 867949.3 | C | 1170.46 | 331113 | 3230 | | 7 | 33.38602 | 111.9429 | 1684 | 33 | 23 | 9.66386 | 111 | 56 | 34.51357 | 33 | 23 | 9.83051 | 111 | 56 | 37.0301 | 264565 | 210852 |
| 3230- H | 0 | 0 | | 0 | | GPS | 3 | 1993 | 486741.2 | 869158.9 | C | 1170.47 | 331113 | 3230 | | 7 | 33.38934 | 111.9601 | 1684 | 33 | 23 | 21.61529 | 111 | 57 | 36.38141 | 33 | 23 | 21.78112 | 111 | 57 | 38.90003 | 264934 | 209254 |
| 3230- J | 0 | 0 | | 0 | | GPS | 3 | 1993 | 485387.7 | 868682.1 | C | 1201.59 | 331113 | 3230 | | 7 | 33.38803 | 111.9645 | 1684 | 33 | 23 | 16.8922 | 111 | 57 | 52.34177 | 33 | 23 | 17.05801 | 111 | 57 | 54.86082 | 264789 | 208841 |
| 3230- L | 0 | 0 | | 0 | | GPS | 3 | 1993 | 484708.4 | 868076.9 | C | 1184.12 | 331113 | 3230 | | 7 | 33.38636 | 111.9668 | 1684 | 33 | 23 | 10.9007 | 111 | 58 | 0.35024 | 33 | 23 | 11.06659 | 111 | 58 | 2.86946 | 264604 | 208634 |
| MILL | 0 | 0 | | 0 | | GPS | 2 | 1993 | 493208.3 | 867912.8 | C | 1174.44 | 331113 | 3230 | | 7 | 33.38592 | 111.9389 | 1684 | 33 | 23 | 9.30601 | 111 | 56 | 20.10194 | 33 | 23 | 9.47279 | 111 | 56 | 22.61802 | 264554 | 211225 |
| 2661- 9 | 0 | 1 | N | 4 | E | P&M | 3 | 1988 | 484377 | 870243.7 | C | 0 | 331113 | 2661 | | 7 | 33.39232 | 111.9679 | 1684 | 33 | 23 | 32.33841 | 111 | 58 | 4.27173 | 33 | 23 | 32.50374 | 111 | 58 | 6.79137 | 265264 | 208533 |
| 2416- 9 | 1 | 1 | S | 4 | E | P&M | 3 | 1987 | 507182.3 | 863294.5 | C | 0 | 331113 | 2416 | | 7 | 33.37322 | 111.8931 | 1683 | 33 | 22 | 23.60884 | 111 | 53 | 35.30429 | 33 | 22 | 23.77824 | 111 | 53 | 37.81457 | 263146 | 215484 |
| 2416- 10 | 1 | 1 | S | 4 | E | P&M | 3 | 1987 | 507017.5 | 859926.9 | C | 0 | 331113 | 2416 | | 7 | 33.36397 | 111.8937 | 1683 | 33 | 21 | 50.28829 | 111 | 53 | 37.25586 | 33 | 21 | 50.45854 | 111 | 53 | 39.7657 | 262120 | 215434 |
| 2416- 12 | 1 | 1 | S | 4 | E | P&M | 3 | 1987 | 507129.8 | 864088.7 | C | 0 | 331113 | 2416 | | 7 | 33.37541 | 111.8933 | 1684 | 33 | 22 | 31.46703 | 111 | 53 | 35.92075 | 33 | 22 | 31.63621 | 111 | 53 | 38.43117 | 263388 | 215468 |
| 3012- 1 | 1 | 1 | S | 4 | E | ESS GPS | 3 | 1991 | 507262.2 | 863270.7 | C | 0 | 331113 | 3012 | | 7 | 33.37316 | 111.8929 | 1683 | 33 | 22 | 23.37257 | 111 | 53 | 34.36226 | 33 | 22 | 23.54198 | 111 | 53 | 36.87251 | 263139 | 215509 |
| QCOR N | 1 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 504477 | 865175.4 | C | 0 | 331113 | | BRASS CAP @ BASELINE & KENWOOD | 7 | 33.3784 | 111.902 | 1684 | 33 | 22 | 42.22429 | 111 | 54 | 7.20267 | 33 | 22 | 42.39292 | 111 | 54 | 9.71422 | 263720 | 214660 |
| QCOR N | 1 | 1 | S | 4 | E | P&M | 3 | 1987 | 504477.8 | 865176.4 | C | 0 | 331113 | 2416 | | 7 | 33.3784 | 111.902 | 1684 | 33 | 22 | 42.23463 | 111 | 54 | 7.19357 | 33 | 22 | 42.40326 | 111 | 54 | 9.70512 | 263720 | 214660 |
| QCOR W | 1 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 501853.7 | 862491.8 | C | 0 | 331113 | | IN HOLE @ MC CLINTOCK & 300'S CORNELL | 7 | 33.37102 | 111.9106 | 1683 | 33 | 22 | 15.6741 | 111 | 54 | 38.14093 | 33 | 22 | 15.84314 | 111 | 54 | 40.65305 | 262902 | 213860 |
| SCOR N | 1 | 1 | S | 4 | E | P&M | 3 | 1987 | 501839.1 | 865164.5 | C | 0 | 331113 | 2416 | | 7 | 33.37837 | 111.9106 | 1684 | 33 | 22 | 42.1187 | 111 | 54 | 38.31121 | 33 | 22 | 42.28706 | 111 | 54 | 40.82373 | 263716 | 213856 |
| SCOR N | 1 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 501838.2 | 865163.7 | C | 0 | 331113 | | "3/4""IRON PIPE @ BASELINE 300'W MCCLINTOCK" | 7 | 33.37836 | 111.9106 | 1684 | 33 | 22 | 42.11154 | 111 | 54 | 38.32193 | 33 | 22 | 42.2799 | 111 | 54 | 40.83445 | 263716 | 213855 |
| CCOR CT | 2 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 499207.3 | 862486.2 | C | 0 | 331113 | | BRASS CAP @ LAKESHORE & SOUTHSHORE | 7 | 33.37101 | 111.9193 | 1683 | 33 | 22 | 15.61855 | 111 | 55 | 9.34809 | 33 | 22 | 15.78732 | 111 | 55 | 11.86118 | 262900 | 213053 |
| QCOR N | 2 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 499172.9 | 865130.3 | C | 0 | 331113 | | P.K. @ BASELINE 100'E LAKESHORE | 7 | 33.37827 | 111.9194 | 1684 | 33 | 22 | 41.78071 | 111 | 55 | 9.75386 | 33 | 22 | 41.9488 | 111 | 55 | 12.26735 | 263706 | 213043 |
| QCOR W | 2 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 496558 | 862476.8 | C | 0 | 331113 | | BRASS CAP @ RURAL 200'S SOUTHSHORE | 7 | 33.37098 | 111.9279 | 1683 | 33 | 22 | 15.52392 | 111 | 55 | 40.5879 | 33 | 22 | 15.69241 | 111 | 55 | 43.10197 | 262897 | 212246 |
| SCOR N | 2 | 1 | S | 4 | E | P&M | 3 | 1987 | 496546.6 | 865110.4 | C | 0 | 331113 | 2416 | | 7 | 33.37822 | 111.928 | 1684 | 33 | 22 | 41.58206 | 111 | 55 | 40.72545 | 33 | 22 | 41.74989 | 111 | 55 | 43.2399 | 263700 | 212242 |
| SCOR N | 2 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 496546.2 | 865109.9 | C | 0 | 331113 | | "3/4""REBAR @ BASELINE & RURAL" | 7 | 33.37822 | 111.928 | 1684 | 33 | 22 | 41.57773 | 111 | 55 | 40.73037 | 33 | 22 | 41.74556 | 111 | 55 | 43.24482 | 263700 | 212242 |
| QCOR N | 3 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 493904.1 | 865098.1 | C | 0 | 331113 | | @ BASELINE W.OF COLLEGE | 7 | 33.37818 | 111.9366 | 1684 | 33 | 22 | 41.4573 | 111 | 56 | 11.88838 | 33 | 22 | 41.62486 | 111 | 56 | 14.4038 | 263696 | 211437 |
| QCOR W | 3 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 491277 | 862440.8 | C | 0 | 331113 | | BRASS CAP @ KYRENE & 150' S CORNEL | 7 | 33.37088 | 111.9452 | 1683 | 33 | 22 | 15.15816 | 111 | 56 | 42.86196 | 33 | 22 | 15.32611 | 111 | 56 | 45.37796 | 262886 | 210636 |
| SCOR N | 3 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 491262.7 | 865109.9 | C | 0 | 331113 | | BRASS CAP @ BASELINE & KYRENE TO SOUTH | 7 | 33.37821 | 111.9453 | 1684 | 33 | 22 | 41.5675 | 111 | 56 | 43.03945 | 33 | 22 | 41.73478 | 111 | 56 | 45.55584 | 263700 | 210632 |
| QCOR N | 4 | 1 | S | 4 | E | TEMPECI | 3 | 1984 | 488639.7 | 865109.5 | C | 0 | 331113 | | @ BASELINE 250'E OF TERRY LANE | 7 | 33.37821 | 111.9539 | 1684 | 33 | 22 | 41.55547 | 111 | 57 | 13.97163 | 33 | 22 | 41.72248 | 111 | 57 | 16.48898 | 263700 | 209832 |
| QCOR W | 4 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 486017 | 862470.2 | C | 0 | 331113 | | REBAR IN PIPE @ PRIEST & SONORA | 7 | 33.37095 | 111.9625 | 1683 | 33 | 22 | 15.43005 | 111 | 57 | 44.88751 | 33 | 22 | 15.59744 | 111 | 57 | 47.40545 | 262895 | 209033 |
| SCOR N | 4 | 1 | S | 4 | E | P&M | 3 | 1988 | 486016.2 | 865105.5 | C | 0 | 331113 | 2661 | | 7 | 33.3782 | 111.9625 | 1684 | 33 | 22 | 41.50571 | 111 | 57 | 44.91121 | 33 | 22 | 41.67245 | 111 | 57 | 47.42953 | 263698 | 209033 |
| 1872- 1 | 5 | 1 | S | 4 | E | P&M | 3 | 1980 | 484173.9 | 859910.6 | C | 0 | 331113 | 1872 | "ELLITO RD.TI,I10" | 7 | 33.36392 | 111.9685 | 1683 | 33 | 21 | 50.09542 | 111 | 58 | 6.6061 | 33 | 21 | 50.26324 | 111 | 58 | 9.12436 | 262115 | 208471 |
| 1872- 8 | 5 | 1 | S | 4 | E | P&M | 3 | 1980 | 484452.2 | 859869 | C | 0 | 331113 | 1872 | "ELLITO RD.TI,I10" | 7 | 33.3638 | 111.9676 | 1683 | 33 | 21 | 49.68517 | 111 | 58 | 3.32503 | 33 | 21 | 49.85303 | 111 | 58 | 5.84318 | 262102 | 208556 |
| 2166- 14' | 5 | 1 | S | 4 | E | GPS | 3 | 1993 | 484461.1 | 863171.5 | C | 1253 | 331113 | 2166 | | 7 | 33.37288 | 111.9676 | 1683 | 33 | 22 | 22.36221 | 111 | 58 | 3.23875 | 33 | 22 | 22.52926 | 111 | 58 | 5.75736 | 263109 | 208559 |
| 2244- 5 | 5 | 1 | S | 4 | E | P&M | 3 | 1985 | 484291.5 | 859874.9 | C | 1303.74 | 331113 | 2244 | | 7 | 33.36382 | 111.9681 | 1683 | 33 | 21 | 49.74299 | 111 | 58 | 5.21964 | 33 | 21 | 49.91083 | 111 | 58 | 7.73785 | 262104 | 208507 |
| 2244- 6 | 5 | 1 | S | 4 | E | P&M | 3 | 1985 | 482983.2 | 859911.2 | C | 1305.32 | 331113 | 2244 | | 7 | 33.36392 | 111.9724 | 1683 | 33 | 21 | 50.09539 | 111 | 58 | 20.64586 | 33 | 21 | 50.26308 | 111 | 58 | 23.16456 | 262115 | 208108 |
| 2925- 2' | 5 | 1 | S | 4 | E | GPS | 3 | 1993 | 484476.6 | 863882 | C | 1243.85 | 331113 | 2925 | | 7 | 33.37483 | 111.9675 | 1683 | 33 | 22 | 29.39261 | 111 | 58 | 3.05991 | 33 | 22 | 29.55949 | 111 | 58 | 5.57862 | 263325 | 208563 |
| 2925-1 | 5 | 1 | S | 4 | E | P&M | 3 | 1990 | 484429.2 | 861719.8 | C | 0 | 331113 | 2925 | | 7 | 33.36889 | 111.9677 | 1683 | 33 | 22 | 7.99819 | 111 | 58 | 3.60714 | 33 | 22 | 8.16559 | 111 | 58 | 6.12556 | 262666 | 208549 |
| 2925-3 | 5 | 1 | S | 4 | E | P&M | 3 | 1990 | 484414.3 | 863279.1 | C | 0 | 331113 | 2925 | | 7 | 33.37317 | 111.9677 | 1683 | 33 | 22 | 23.42666 | 111 | 58 | 3.79132 | 33 | 22 | 23.59368 | 111 | 58 | 6.30997 | 263142 | 208544 |
| 2925-5 | 5 | 1 | S | 4 | E | P&M | 3 | 1990 | 484603.4 | 859846.9 | C | 0 | 331113 | 2925 | | 7 | 33.36374 | 111.9671 | 1683 | 33 | 21 | 49.46754 | 111 | 58 | 1.54178 | 33 | 21 | 49.63542 | 111 | 58 | 4.05987 | 262096 | 208602 |
| 2925-6 | 5 | 1 | S | 4 | E | P&M | 3 | 1990 | 484742.4 | 859801 | C | 0 | 331113 | 2925 | | 7 | 33.36362 | 111.9666 | 1683 | 33 | 21 | 49.01397 | 111 | 57 | 59.90253 | 33 | 21 | 49.18187 | 111 | 58 | 2.42057 | 262082 | 208644 |
| 2925-8 | 5 | 1 | S | 4 | E | P&M | 3 | 1990 | 482687.4 | 865091.9 | C | 0 | 331113 | 2925 | | 7 | 33.37815 | 111.9734 | 1684 | 33 | 22 | 41.3544 | 111 | 58 | 24.16762 | 33 | 22 | 41.5208 | 111 | 58 | 26.68716 | 263694 | 208018 |
| CCOR CT | 5 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 483168.3 | 862926.2 | C | 0 | 331113 | | "1/2"" AS SHOWN ON I-10 FRWY PLANS" | 7 | 33.3722 | 111.9718 | 1683 | 33 | 22 | 19.92826 | 111 | 58 | 18.48209 | 33 | 22 | 20.09524 | 111 | 58 | 21.00114 | 263034 | 208165 |
| QCOR N | 5 | 1 | S | 4 | E | P&M | 3 | 1988 | 483393 | 865094.8 | C | 0 | 331113 | 2661 | "@ BASELINE & 55',E. ""POINTE"" ENTRANCE" | 7 | 33.37816 | 111.9711 | 1684 | 33 | 22 | 41.38753 | 111 | 58 | 15.84626 | 33 | 22 | 41.55401 | 111 | 58 | 18.36554 | 263695 | 208233 |
| QCOR W | 5 | 1 | S | 4 | E | PHXCITY | 4 | | 480745.3 | 862436.7 | C | 0 | 331113 | | | 7 | 33.37085 | 111.9797 | 1683 | 33 | 22 | 15.07141 | 111 | 58 | 47.05106 | 33 | 22 | 15.23825 | 111 | 58 | 49.57094 | 262885 | 207426 |
| SCOR N | 5 | 1 | S | 4 | E | PHXCITY | 3 | | 480769.9 | 865081.4 | C | 0 | 331113 | | | 7 | 33.37812 | 111.9797 | 1684 | 33 | 22 | 41.24031 | 111 | 58 | 46.78082 | 33 | 22 | 41.40652 | 111 | 58 | 49.30106 | 263691 | 207434 |
| CCOR CT | 6 | 1 | S | 4 | E | PHXCITY | 4 | | 478108.9 | 862410.6 | C | 0 | 331113 | | | 7 | 33.37078 | 111.9884 | 1683 | 33 | 22 | 14.79652 | 111 | 59 | 18.13986 | 33 | 22 | 14.96309 | 111 | 59 | 20.6607 | 262877 | 206623 |
| QCOR N | 6 | 1 | S | 4 | E | PHXCITY | 3 | | 478155.7 | 865065.2 | C | 0 | 331113 | | | 7 | 33.37807 | 111.9882 | 1684 | 33 | 22 | 41.06259 | 111 | 59 | 17.60891 | 33 | 22 | 41.22853 | 111 | 59 | 20.1301 | 263686 | 206637 |
| QCOR W | 6 | 1 | S | 4 | E | PHXCITY | 4 | | 475705.5 | 862386.1 | C | 0 | 331113 | | | 7 | 33.3707 | 111.9962 | 1683 | 33 | 22 | 14.5363 | 111 | 59 | 46.47986 | 33 | 22 | 14.70263 | 111 | 59 | 49.00158 | 262869 | 205890 |
| SCOR N | 6 | 1 | S | 4 | E | P&M | 3 | | 475735 | 865054.4 | C | 0 | 331113 | | | 7 | 33.37804 | 111.9962 | 1684 | 33 | 22 | 40.93884 | 111 | 59 | 46.15693 | 33 | 22 | 41.10454 | 111 | 59 | 48.67901 | 263683 | 205899 |
| 2581- 3 | 7 | 1 | S | 4 | E | P&M | 3 | 1988 | 509094.8 | 859892.3 | C | 0 | 331113 | 2581 | | 7 | 33.36387 | 111.8869 | 1683 | 33 | 21 | 49.94019 | 111 | 53 | 12.76237 | 33 | 21 | 50.11067 | 111 | 53 | 15.27144 | 262109 | 216067 |
| SCOR N | 7 | 1 | S | 4 | E | P&M DIGI | 5 | | 475592 | 859799 | C | 0 | 331113 | | | 7 | 33.36359 | 111.9966 | 1683 | 33 | 21 | 48.93734 | 111 | 59 | 47.79537 | 33 | 21 | 49.10427 | 111 | 59 | 50.31678 | 262081 | 205855 |
| 1872- 2 | 8 | 1 | S | 4 | E | P&M | 3 | 1980 | 483720 | 856932.1 | C | 0 | 331113 | 1872 | "ELLITO RD.TI,I10" | 7 | 33.35573 | 111.97 | 1683 | 33 | 21 | 20.62171 | 111 | 58 | 11.94107 | 33 | 21 | 20.7902 | 111 | 58 | 14.45908 | 261207 | 208333 |
| 2244- 7 | 8 | 1 | S | 4 | E | P&M | 3 | 1985 | 484694.5 | 858478.2 | C | 1268.95 | 331113 | 2244 | | 7 | 33.35998 | 111.9668 | 1683 | 33 | 21 | 35.92497 | 111 | 58 | 0.45973 | 33 | 21 | 36.09319 | 111 | 58 | 2.9776 | 261678 | 208630 |
| 2925- 4' | 8 | 1 | S | 4 | E | GPS | 3 | 1993 | 484095.5 | 859396.2 | C | 1279.39 | 331113 | 2925 | | 7 | 33.3625 | 111.9688 | 1683 | 33 | 21 | 45.00547 | 111 | 58 | 7.52748 | 33 | 21 | 45.1734 | 111 | 58 | 10.0457 | 261958 | 208447 |
| 2925-9 | 8 | 1 | S | 4 | E | P&M | 3 | 1990 | 483152.7 | 859414.4 | C | 0 | 331113 | 2925 | | 7 | 33.36255 | 111.9718 | 1683 | 33 | 21 | 45.18019 | 111 | 58 | 18.64505 | 33 | 21 | 45.34802 | 111 | 58 | 21.16362 | 261964 | 208160 |
| 3090- 1 | 8 | 1 | S | 4 | E | GPS | 2 | 1991 | 484418 | 857224.5 | C | 1265.53 | 331113 | 3090 | | 7 | 33.35653 | 111.9677 | 1683 | 33 | 21 | 23.51839 | 111 | 58 | 3.71303 | 33 | 21 | 23.68689 | 111 | 58 | 6.23082 | 261296 | 208546 |
| 3090- 2 | 8 | 1 | S | 4 | 3 | GPS | 2 | 1991 | 483898.6 | 857187.6 | C | 1271.75 | 331113 | 3090 | | 7 | 33.35643 | 111.9694 | 1683 | 33 | 21 | 23.15055 | 111 | 58 | 9.83651 | 33 | 21 | 23.319 | 111 | 58 | 12.35449 | 261285 | 208387 |
| 3090- 3 | 8 | 1 | S | 4 | E | GPS | 2 | 1991 | 482975 | 857192.1 | C | 1287.55 | 331113 | 3090 | | 7 | 33.35644 | 111.9724 | 1683 | 33 | 21 | 23.19054 | 111 | 58 | 20.72615 | 33 | 21 | 23.35889 | 111 | 58 | 23.24447 | 261286 | 208106 |
| 3090- 4 | 8 | 1 | S | 4 | E | GPS | 2 | 1991 | 484324.3 | 856123.9 | C | 1254.59 | 331113 | 3090 | | 7 | 33.35351 | 111.968 | 1683 | 33 | 21 | 12.6283 | 111 | 58 | 4.81101 | 33 | 21 | 12.79705 | 111 | 58 | 7.32868 | 260961 | 208517 |
| 3090- 5 | 8 | 1 | S | 4 | E | GPS | 2 | 1991 | 485335.1 | 855216.3 | C | 1244.37 | 331113 | 3090 | | 7 | 33.35101 | 111.9647 | 1683 | 33 | 21 | 3.65269 | 111 | 57 | 52.88967 | 33 | 21 | 3.82178 | 111 | 57 | 55.40684 | 260684 | 208825 |
| 3090- 6 | 8 | 1 | S | 4 | E | GPS | 2 | 1991 | 483530.9 | 855167.9 | C | 1265.55 | 331113 | 3090 | | 7 | 33.35088 | 111.9706 | 1683 | 33 | 21 | 3.16485 | 111 | 58 | 14.15983 | 33 | 21 | 3.33375 | 111 | 58 | 16.67766 | 260669 | 208275 |
| 3090- 7' | 8 | 1 | S | 4 | E | GPS | 3 | 1993 | 482710.7 | 855451.4 | C | 1270.96 | 331113 | 3090 | | 7 | 33.35166 | 111.9733 | 1683 | 33 | 21 | 5.96526 | 111 | 58 | 23.8307 | 33 | 21 | 6.134 | 111 | 58 | 26.34887 | 260756 | 208025 |
| 3090- 8 | 8 | 1 | S | 4 | E | GPS | 2 | 1991 | 482106.5 | 855219.3 | C | 1272.15 | 331113 | 3090 | | 7 | 33.35102 | 111.9753 | 1683 | 33 | 21 | 3.66545 | 111 | 58 | 30.95191 | 33 | 21 | 3.83418 | 111 | 58 | 33.47027 | 260685 | 207841 |
| CCOR CT | 8 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 483372.8 | 857137.5 | C | 0 | 331113 | | @MINERAL & 400'W. C.L. I-10 | 7 | 33.35629 | 111.9711 | 1683 | 33 | 21 | 22.65262 | 111 | 58 | 16.03484 | 33 | 21 | 22.82102 | 111 | 58 | 18.55301 | 261270 | 208227 |
| QCOR N | 8 | 1 | S | 4 | E | P&M | 3 | 1990 | 483365.6 | 859797.3 | C | 0 | 331113 | 2925 | | 7 | 33.3636 | 111.9711 | 1683 | 33 | 21 | 48.96966 | 111 | 58 | 16.13672 | 33 | 21 | 49.13742 | 111 | 58 | 18.65526 | 262080 | 208225 |
| QCOR N | 8 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 483364.2 | 859798.2 | C | 0 | 331113 | | @ GUADALUPE & 900'W. C.L. I-10 | 7 | 33.36361 | 111.9712 | 1683 | 33 | 21 | 48.97866 | 111 | 58 | 16.15263 | 33 | 21 | 49.14642 | 111 | 58 | 18.67117 | 262081 | 208224 |
| SCOR N | 8 | 1 | S | 4 | E | P&M DIGI | 5 | | 480703 | 859767 | C | 0 | 331113 | | | 7 | 33.36352 | 111.9799 | 1683 | 33 | 21 | 48.65545 | 111 | 58 | 47.53124 | 33 | 21 | 48.82293 | 111 | 58 | 50.05076 | 262071 | 207413 |
| 2244- 8 | 9 | 1 | S | 4 | E | P&M | 3 | 1985 | 486019.7 | 858490.1 | C | 1248.3 | 331113 | 2244 | | 7 | 33.36001 | 111.9625 | 1683 | 33 | 21 | 36.04886 | 111 | 57 | 44.83569 | 33 | 21 | 36.21722 | 111 | 57 | 47.35307 | 261682 | 209034 |
| 2244- 9 | 9 | 1 | S | 4 | E | P&M | 3 | 1985 | 486019.5 | 859819.3 | C | 1248.12 | 331113 | 2244 | | 7 | 33.36367 | 111.9625 | 1683 | 33 | 21 | 49.20083 | 111 | 57 | 44.84449 | 33 | 21 | 49.36887 | 111 | 57 | 47.36206 | 262087 | 209034 |
| CCOR CT | 9 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 488660.4 | 857160.6 | C | 0 | 331113 | | CONC.@ CENTER OF ROAD BY CANAL TO S. | 7 | 33.35636 | 111.9538 | 1683 | 33 | 21 | 22.90354 | 111 | 57 | 13.69477 | 33 | 21 | 23.07251 | 111 | 57 | 16.21099 | 261277 | 209839 |
| QCOR N | 9 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 488653.8 | 859807.3 | C | 0 | 331113 | | BRASS CAP @GUADALUPE & HARDY | 7 | 33.36364 | 111.9538 | 1683 | 33 | 21 | 49.09212 | 111 | 57 | 13.78307 | 33 | 21 | 49.26044 | 111 | 57 | 16.29966 | 262083 | 209837 |
| QCOR W | 9 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 486017.7 | 857162 | C | 0 | 331113 | | BRASS CAP @56TH ST. & MINEROLE | 7 | 33.35636 | 111.9625 | 1683 | 33 | 21 | 22.90769 | 111 | 57 | 44.85185 | 33 | 21 | 23.07638 | 111 | 57 | 47.36904 | 261277 | 209033 |
| SCOR N | 9 | 1 | S | 4 | E | P&M | 3 | 1990 | 486019.5 | 859819.3 | C | 0 | 331113 | 2925 | | 7 | 33.36367 | 111.9625 | 1683 | 33 | 21 | 49.2005 | 111 | 57 | 44.84428 | 33 | 21 | 49.36854 | 111 | 57 | 47.36185 | 262087 | 209034 |
| SCOR N | 9 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 486018 | 859820.3 | C | 0 | 331113 | | BRASS CAP @GUADALUPE & 56TH ST. | 7 | 33.36367 | 111.9625 | 1683 | 33 | 21 | 49.2103 | 111 | 57 | 44.86279 | 33 | 21 | 49.37834 | 111 | 57 | 47.38036 | 262087 | 209033 |
| QCOR N | 10 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 493930.3 | 859813.9 | C | 0 | 331113 | | BRASS CAP @GUADALUPE 70'E CANAL | 7 | 33.36366 | 111.9365 | 1683 | 33 | 21 | 49.17189 | 111 | 56 | 11.56771 | 33 | 21 | 49.34077 | 111 | 56 | 14.08236 | 262085 | 211445 |
| QCOR W | 10 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 491303.3 | 857158.8 | C | 0 | 331113 | | REBAR @ KYRENE & E.ENTR. STEAM PLANT | 7 | 33.35636 | 111.9451 | 1683 | 33 | 21 | 22.89424 | 111 | 56 | 42.53456 | 33 | 21 | 23.0635 | 111 | 56 | 45.0498 | 261276 | 210644 |
| SCOR N | 10 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 491291.1 | 859797.1 | C | 0 | 331113 | | BRASS CAP @GUADALUPE & KYRENE | 7 | 33.36361 | 111.9452 | 1683 | 33 | 21 | 48.99954 | 111 | 56 | 42.68726 | 33 | 21 | 49.16814 | 111 | 56 | 45.20288 | 262080 | 210641 |
| CCOR CT | 11 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 499217 | 857197.5 | C | 0 | 331113 | | @ LAKESHORE & S.SIDE WESTERN CANAL | 7 | 33.35647 | 111.9192 | 1683 | 33 | 21 | 23.28875 | 111 | 55 | 9.23195 | 33 | 21 | 23.45886 | 111 | 55 | 11.74427 | 261288 | 213056 |
| QCOR N | 11 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 499222.2 | 859832.2 | C | 0 | 331113 | | BRASS CAP @GUADALUPE & SOUTHSHORE | 7 | 33.36371 | 111.9192 | 1683 | 33 | 21 | 49.35864 | 111 | 55 | 9.17059 | 33 | 21 | 49.52808 | 111 | 55 | 11.68329 | 262091 | 213058 |
| QCOR W | 11 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 496586.8 | 857177.1 | C | 0 | 331113 | | BRASS CAP @ RURAL & 60'S CANAL | 7 | 33.35641 | 111.9278 | 1683 | 33 | 21 | 23.08527 | 111 | 55 | 40.24129 | 33 | 21 | 23.2551 | 111 | 55 | 42.75458 | 261282 | 212255 |
| SCOR N | 11 | 1 | S | 4 | E | TEMPEC | 3 | 1984 | 496569.8 | 859830.8 | C | 0 | 331113 | | BRASS CAP @GUADALUPE & RURAL | 7 | 33.36371 | 111.9279 | 1683 | 33 | 21 | 49.34284 | 111 | 55 | 40.44585 | 33 | 21 | 49.512 | 111 | 55 | 42.95953 | 262091 | 212250 |
| 2416- 11 | 12 | 1 | S | 4 | E | P&M | 3 | 1987 | 507032 | 858363.5 | C | 0 | 331113 | 2416 | | 7 | 33.35967 | 111.8936 | 1683 | 33 | 21 | 34.8183 | 111 | 53 | 37.08962 | 33 | 21 | 34.98896 | 111 | 53 | 39.59923 | 261643 | 215438 |
| 2581- 2 | 12 | 1 | S | 4 | E | P&M | 3 | 1988 | 504776.2 | 859848.3 | C | 0 | 331113 | 2581 | | 7 | 33.36375 | 111.901 | 1683 | 33 | 21 | 49.51427 | 111 | 54 | 3.68411 | 33 | 21 | 49.6843 | 111 | 54 | 6.19477 | 262096 | 214751 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2581- 4 | 12 | 1 S | 4 E | P&M | 3 | 1988 | 504500 | 857202.8 | C | 0 | 331113 | 2581 | | 7 | 33.35648 | 111.9019 | 1683 | 33 | 21 | 23.33794 | 111 | 54 | 6.94456 | 33 | 21 | 23.50862 | 111 | 54 | 9.45493 | 261290 | 214667 |
| QCOR N | 12 | 1 S | 4 E | P&M | 3 | 1987 | 504506.1 | 859846.7 | C | 0 | 331113 | 2416 | | 7 | 33.36375 | 111.9019 | 1683 | 33 | 21 | 49.49928 | 111 | 54 | 6.8689 | 33 | 21 | 49.66928 | 111 | 54 | 9.37966 | 262095 | 214669 |
| QCOR N | 12 | 1 S | 4 E | TEMPEC | 3 | 1984 | 504504.6 | 859845.3 | C | 0 | 331113 | | BRASS CAP @ GUADALUPE & COUNTRY CLUB WAY | 7 | 33.36375 | 111.9019 | 1683 | 33 | 21 | 49.48541 | 111 | 54 | 6.88626 | 33 | 21 | 49.65541 | 111 | 54 | 9.39702 | 262095 | 214668 |
| QCOR W | 12 | 1 S | 4 E | P&M | 3 | 1988 | 501877.6 | 857168.8 | C | 0 | 331113 | 2581 | | 7 | 33.35639 | 111.9105 | 1683 | 33 | 21 | 23.00494 | 111 | 54 | 37.86281 | 33 | 21 | 23.17535 | 111 | 54 | 40.37415 | 261279 | 213867 |
| QCOR W | 12 | 1 S | 4 E | TEMPEC | 3 | 1984 | 501875.6 | 857167.8 | C | 0 | 331113 | | BRASS CAP @ MC CLINTOCK & 60'S CANAL | 7 | 33.35639 | 111.9105 | 1683 | 33 | 21 | 22.99422 | 111 | 54 | 37.86642 | 33 | 21 | 23.16463 | 111 | 54 | 40.39776 | 261279 | 213867 |
| SCOR N | 12 | 1 S | 4 E | TEMPEC | 3 | 1984 | 501868.4 | 859830.6 | C | 0 | 331113 | | BRASS CAP @ MC CLINTOCK & GUADALUPE | 7 | 33.36371 | 111.9105 | 1683 | 33 | 21 | 49.34166 | 111 | 54 | 37.96929 | 33 | 21 | 49.51139 | 111 | 54 | 40.48102 | 262091 | 213865 |
| 2581- 5 | 13 | 1 S | 4 E | P&M | 3 | 1988 | 503184.7 | 854517.3 | C | 0 | 331113 | 2581 | | 7 | 33.3491 | 111.9062 | 1683 | 33 | 20 | 56.76735 | 111 | 54 | 22.45503 | 33 | 20 | 56.93858 | 111 | 54 | 24.96549 | 260471 | 214266 |
| 2581- 6 | 13 | 1 S | 4 E | P&M | 3 | 1988 | 506882.6 | 854526.6 | C | 0 | 331113 | 2581 | | 7 | 33.34913 | 111.8941 | 1683 | 33 | 20 | 56.85414 | 111 | 53 | 38.86065 | 33 | 20 | 57.02578 | 111 | 53 | 41.36975 | 260474 | 215393 |
| 2582- 15 | 13 | 1 S | 4 E | P&M | 3 | 1988 | 505691.7 | 850040.2 | C | 0 | 331113 | 2582 | | 7 | 33.3368 | 111.898 | 1683 | 33 | 20 | 12.4651 | 111 | 53 | 52.90981 | 33 | 20 | 12.63776 | 111 | 53 | 55.41869 | 259106 | 215030 |
| 2582- 16 | 13 | 1 S | 4 E | P&M | 3 | 1988 | 504596.9 | 849268.6 | C | 0 | 331113 | 2582 | | 7 | 33.33468 | 111.9016 | 1683 | 33 | 20 | 4.83194 | 111 | 54 | 5.81566 | 33 | 20 | 5.00468 | 111 | 54 | 8.32483 | 258871 | 214696 |
| QCOR N | 13 | 1 S | 4 E | P&M | 3 | 1988 | 504537.4 | 854547 | C | 0 | 331113 | 2581 | | 7 | 33.34918 | 111.9018 | 1683 | 33 | 20 | 57.06 | 111 | 54 | 6.50812 | 33 | 20 | 57.23137 | 111 | 54 | 9.01809 | 260480 | 214678 |
| QCOR N | 13 | 1 S | 4 E | TEMPEC | 3 | 1984 | 504534.9 | 854545.3 | C | 0 | 331113 | | BRASS CAP @ ELIOT & COUNTRY CLUB | 7 | 33.34918 | 111.9018 | 1683 | 33 | 20 | 57.04364 | 111 | 54 | 6.53726 | 33 | 20 | 57.21501 | 111 | 54 | 9.04723 | 260480 | 214677 |
| QCOR W | 13 | 1 S | 4 E | TEMPEC | 3 | 1984 | 501887.6 | 851871.3 | C | 0 | 331113 | | BRASS CAP @ MC CLINTOCK 200'S. CITATION | 7 | 33.34183 | 111.9105 | 1683 | 33 | 20 | 30.58705 | 111 | 54 | 37.74875 | 33 | 20 | 30.75881 | 111 | 54 | 40.25931 | 259665 | 213870 |
| SCOR N | 13 | 1 S | 4 E | P&M | 3 | 1988 | 501885.3 | 854507.2 | C | 0 | 331113 | 2581 | | 7 | 33.34907 | 111.9105 | 1683 | 33 | 20 | 56.66904 | 111 | 54 | 37.77431 | 33 | 20 | 56.84013 | 111 | 54 | 40.28525 | 260468 | 213870 |
| SCOR N | 13 | 1 S | 4 E | TEMPEC | 3 | 1984 | 501882.8 | 854506 | C | 0 | 331113 | | BRASS CAP @ MC CLINTOCK & ELLIOT | 7 | 33.34907 | 111.9105 | 1683 | 33 | 20 | 56.65742 | 111 | 54 | 37.80332 | 33 | 20 | 56.82851 | 111 | 54 | 40.31426 | 260468 | 213869 |
| CCOR CT | 14 | 1 S | 4 E | TEMPEC | 3 | 1984 | 499250.6 | 851880.6 | C | 0 | 331113 | | BRASS CAP @ CARVER & LAKESHORE | 7 | 33.34186 | 111.9191 | 1683 | 33 | 20 | 30.68033 | 111 | 55 | 8.83425 | 33 | 20 | 30.85179 | 111 | 55 | 11.34579 | 259667 | 213067 |
| QCOR N | 14 | 1 S | 4 E | TEMPEC | 3 | 1984 | 499242.3 | 854521.4 | C | 0 | 331113 | | BRASS CAP @ LAKESHORE & ELLIOT | 7 | 33.34911 | 111.9191 | 1683 | 33 | 20 | 56.80959 | 111 | 55 | 8.93225 | 33 | 20 | 56.98038 | 111 | 55 | 11.44417 | 260472 | 213064 |
| QCOR W | 14 | 1 S | 4 E | TEMPEC | 3 | 1984 | 496614.4 | 851890.2 | C | 0 | 331113 | | BRASS CAP @ RURAL & CARVER | 7 | 33.34188 | 111.9278 | 1683 | 33 | 20 | 30.77301 | 111 | 55 | 39.90976 | 33 | 20 | 30.94418 | 111 | 55 | 42.42228 | 259670 | 212263 |
| SCOR N | 14 | 1 S | 4 E | TEMPEC | 3 | 1984 | 496604 | 854537.2 | C | 0 | 331113 | | BRASS CAP @ RURAL & ELLIOT | 7 | 33.34916 | 111.9278 | 1683 | 33 | 20 | 56.96494 | 111 | 55 | 40.0361 | 33 | 20 | 57.13544 | 111 | 55 | 42.549 | 260477 | 212260 |
| CCOR CT | 15 | 1 S | 4 E | TEMPEC | 3 | 1984 | 493974.1 | 851885.7 | C | 0 | 331113 | | BRASS CAP @ MILL & CARVER 1'W.6'S.BC@IWT. | 7 | 33.34187 | 111.9364 | 1683 | 33 | 20 | 30.725 | 111 | 56 | 11.0338 | 33 | 20 | 30.89587 | 111 | 56 | 13.5473 | 259689 | 211458 |
| QCOR W | 15 | 1 S | 4 E | TEMPEC | 3 | 1984 | 491336.4 | 851880.8 | C | 0 | 331113 | | BRASS CAP @ KYRENE & 10'N.F.L.VAL.STL.SUP. | 7 | 33.34185 | 111.945 | 1683 | 33 | 20 | 30.67 | 111 | 56 | 42.12739 | 33 | 20 | 30.84057 | 111 | 56 | 44.64186 | 259667 | 210654 |
| SCOR N | 15 | 1 S | 4 E | TEMPEC | 3 | 1984 | 491315.9 | 854532.8 | C | 0 | 331113 | | BRASS CAP @ KYRENE & ELLIOT W.OF CTLN. | 7 | 33.34914 | 111.9451 | 1683 | 33 | 20 | 56.91122 | 111 | 56 | 42.37756 | 33 | 20 | 57.08113 | 111 | 56 | 44.89242 | 260476 | 210648 |
| CCOR CT | 16 | 1 S | 4 E | TEMPEC | 3 | 1984 | 488687.5 | 851866.4 | C | 0 | 331113 | | IN HOLE @ P.L.-W. & C.L. HARDY-S. | 7 | 33.34181 | 111.9537 | 1683 | 33 | 20 | 30.51978 | 111 | 57 | 13.35298 | 33 | 20 | 30.69006 | 111 | 57 | 15.86843 | 259663 | 209847 |
| QCOR N | 16 | 1 S | 4 E | TEMPEC | 3 | 1984 | 488667.6 | 854518.1 | C | 0 | 331113 | | BRASS CAP @ ELLIOT & 30'E. POWER LINE S. | 7 | 33.3491 | 111.9538 | 1683 | 33 | 20 | 56.75701 | 111 | 57 | 13.59852 | 33 | 20 | 56.92663 | 111 | 57 | 16.11436 | 260471 | 209841 |
| QCOR W | 16 | 1 S | 4 E | TEMPEC | 3 | 1984 | 486020.8 | 851852.3 | C | 0 | 331113 | | IRON BARR @ 56TH ST. & CARVER | 7 | 33.34177 | 111.9624 | 1683 | 33 | 20 | 30.37001 | 111 | 57 | 44.78752 | 33 | 20 | 30.53999 | 111 | 57 | 47.30396 | 259659 | 209034 |
| SCOR N | 16 | 1 S | 4 E | P&M | 3 | | 486020.3 | 854500.5 | C | 0 | 331113 | | | 7 | 33.34905 | 111.9624 | 1683 | 33 | 20 | 56.57281 | 111 | 57 | 44.80703 | 33 | 20 | 56.74215 | 111 | 57 | 47.32384 | 260466 | 209034 |
| SCOR N | 16 | 1 S | 4 E | GPS | 2 | 1991 | 486019.7 | 854502 | C | 1234.81 | 331113 | 3090 | | 7 | 33.34905 | 111.9624 | 1683 | 33 | 20 | 56.58737 | 111 | 57 | 44.81526 | 33 | 20 | 56.75671 | 111 | 57 | 47.33208 | 260466 | 209034 |
| SCOR N | 16 | 1 S | 4 E | TEMPEC | 3 | 1984 | 486017.2 | 854503.2 | C | 0 | 331113 | | BRASS CAP @ ELLIOT & 56TH ST. | 7 | 33.34906 | 111.9625 | 1683 | 33 | 20 | 56.59901 | 111 | 57 | 44.84382 | 33 | 20 | 56.76834 | 111 | 57 | 47.36064 | 260467 | 209033 |
| 1872- 3 | 17 | 1 S | 4 E | P&M | 3 | 1980 | 483320 | 854077.2 | C | 0 | 331113 | 1872 | "ELLITO RD.TI,I10" | 7 | 33.34788 | 111.9713 | 1683 | 33 | 20 | 52.37101 | 111 | 58 | 16.63876 | 33 | 20 | 52.54015 | 111 | 58 | 19.15651 | 260337 | 208211 |
| 1872- 4 | 17 | 1 S | 4 E | P&M | 3 | 1980 | 483323.1 | 852258.4 | C | 0 | 331113 | 1872 | "ELLITO RD.TI,I10" | 7 | 33.34288 | 111.9713 | 1683 | 33 | 20 | 34.37498 | 111 | 58 | 16.59136 | 33 | 20 | 34.54456 | 111 | 58 | 19.10886 | 259783 | 208212 |
| 1872- 5 | 17 | 1 S | 4 E | P&M | 3 | 1980 | 481815.4 | 854457 | C | 0 | 331113 | 1872 | "ELLITO RD.TI,I10" | 7 | 33.34892 | 111.9762 | 1683 | 33 | 20 | 56.12098 | 111 | 58 | 34.37927 | 33 | 20 | 56.28986 | 111 | 58 | 36.89764 | 260453 | 207752 |
| 1872- 6 | 17 | 1 S | 4 E | P&M | 3 | 1980 | 483554.8 | 854425.9 | C | 0 | 331113 | 1872 | "ELLITO RD.TI,I10" | 7 | 33.34884 | 111.9705 | 1683 | 33 | 20 | 55.82271 | 111 | 58 | 13.87308 | 33 | 20 | 55.99179 | 111 | 58 | 16.3908 | 260443 | 208283 |
| 1872- 7 | 17 | 1 S | 4 E | P&M | 3 | 1980 | 485128.7 | 854554.6 | C | 0 | 331113 | 1872 | "ELLITO RD.TI,I10" | 7 | 33.3492 | 111.9654 | 1683 | 33 | 20 | 57.10422 | 111 | 57 | 55.31912 | 33 | 20 | 57.27344 | 111 | 57 | 57.83627 | 260482 | 208762 |
| 2016- 2 | 17 | 1 S | 4 E | P&M | 3 | 1982 | 483377.7 | 849192.1 | C | 1261.87 | 331113 | 2016 | NW COR OF ABUTMENT-WARNER RD | 7 | 33.33445 | 111.9711 | 1683 | 33 | 20 | 4.03503 | 111 | 58 | 15.92895 | 33 | 20 | 4.20536 | 111 | 58 | 18.446 | 258848 | 208229 |
| 3090- 9 | 17 | 1 S | 4 E | GPS | 2 | 1991 | 485153.4 | 854445.8 | C | 1242.37 | 331113 | 3090 9 | | 7 | 33.3489 | 111.9653 | 1683 | 33 | 20 | 56.02737 | 111 | 57 | 55.02763 | 33 | 20 | 56.19662 | 111 | 57 | 57.54476 | 260449 | 208770 |
| 3090- 10 | 17 | 1 S | 4 E | GPS | 2 | 1991 | 483554.8 | 854426 | C | 1280.93 | 331113 | 3090 10 | | 7 | 33.34884 | 111.9705 | 1683 | 33 | 20 | 55.82377 | 111 | 58 | 13.87296 | 33 | 20 | 55.99285 | 111 | 58 | 16.39068 | 260443 | 208283 |
| 3090- 11 | 17 | 1 S | 4 E | GPS | 2 | 1991 | 482205.4 | 854398.4 | C | 1271.16 | 331113 | 3090 11 | | 7 | 33.34876 | 111.9749 | 1683 | 33 | 20 | 55.54336 | 111 | 58 | 29.78137 | 33 | 20 | 55.7123 | 111 | 58 | 32.29958 | 260435 | 207871 |
| 3090- 12 | 17 | 1 S | 4 E | GPS | 2 | 1991 | 485277.7 | 853745.6 | C | 1238.37 | 331113 | 3090 12 | | 7 | 33.34697 | 111.9649 | 1683 | 33 | 20 | 49.10035 | 111 | 57 | 53.55747 | 33 | 20 | 49.26979 | 111 | 57 | 56.07445 | 260236 | 208808 |
| 3090- 13 | 17 | 1 S | 4 E | GPS | 2 | 1991 | 484064.8 | 854017.6 | C | 1250.25 | 331113 | 3090 13 | | 7 | 33.34772 | 111.9688 | 1683 | 33 | 20 | 51.78514 | 111 | 58 | 7.8585 | 33 | 20 | 51.95438 | 111 | 58 | 10.37597 | 260319 | 208438 |
| 3090- 14 | 17 | 1 S | 4 E | GPS | 2 | 1991 | 483483.5 | 853742.2 | C | 1255.81 | 331113 | 3090 14 | | 7 | 33.34696 | 111.9708 | 1683 | 33 | 20 | 49.0573 | 111 | 58 | 14.70964 | 33 | 20 | 49.22654 | 111 | 58 | 17.22729 | 260235 | 208261 |
| 3090- 15 | 17 | 1 S | 4 E | GPS | 2 | 1991 | 482533 | 854111.2 | C | 1263.71 | 331113 | 3090 15 | | 7 | 33.34797 | 111.9739 | 1683 | 33 | 20 | 52.7042 | 111 | 58 | 25.91745 | 33 | 20 | 52.87324 | 111 | 58 | 28.4355 | 260347 | 207971 |
| 3090- 16 | 17 | 1 S | 4 E | GPS | 2 | 1991 | 481870.8 | 853843.2 | C | 1266.63 | 331113 | 3090 16 | | 7 | 33.34724 | 111.976 | 1683 | 33 | 20 | 50.04794 | 111 | 58 | 33.72144 | 33 | 20 | 50.21698 | 111 | 58 | 36.2397 | 260266 | 207769 |
| 3090- 17 | 17 | 1 S | 4 E | GPS | 2 | 1991 | 483908.2 | 852465.4 | C | 1245.19 | 331113 | 3090 17 | | 7 | 33.34345 | 111.9694 | 1683 | 33 | 20 | 36.42627 | 111 | 58 | 9.69562 | 33 | 20 | 36.59587 | 111 | 58 | 12.21293 | 259846 | 208390 |
| 3090- 18 | 17 | 1 S | 4 E | GPS | 2 | 1991 | 483323.2 | 852258.4 | C | 1254.3 | 331113 | 3090 18 | | 7 | 33.34288 | 111.9713 | 1683 | 33 | 20 | 34.37524 | 111 | 58 | 16.59049 | 33 | 20 | 34.54482 | 111 | 58 | 19.10799 | 259783 | 208212 |
| 3090- 19 | 17 | 1 S | 4 E | GPS | 2 | 1991 | 482522.9 | 852600.7 | C | 1257.18 | 331113 | 3090 19 | | 7 | 33.34382 | 111.9739 | 1683 | 33 | 20 | 37.75768 | 111 | 58 | 26.02691 | 33 | 20 | 37.92709 | 111 | 58 | 28.54475 | 259887 | 207968 |
| 3122- 0E | 17 | 1 S | 4 E | GPS | 2 | 1991 | 482511.1 | 851398.1 | C | 1249.75 | 331113 | 3122 -0E | | 7 | 33.34052 | 111.9739 | 1683 | 33 | 20 | 25.858 | 111 | 58 | 26.15783 | 33 | 20 | 26.0277 | 111 | 58 | 28.67551 | 259520 | 207964 |
| CCOR CT | 17 | 1 S | 4 E | TEMPEC | 3 | 1984 | 483391.2 | 851826.4 | C | 0 | 331113 | | W/REBAR @ E.RW HWY 50'S. U-HAUL ACC. RD. | 7 | 33.34169 | 111.9711 | 1683 | 33 | 20 | 30.10113 | 111 | 58 | 15.78626 | 33 | 20 | 30.27082 | 111 | 58 | 18.30367 | 259651 | 208233 |
| QCOR N | 17 | 1 S | 4 E | SRP PHA | 4 | 1986 | 483383.5 | 854473.9 | C | 0 | 331113 | | | 7 | 33.34897 | 111.9711 | 1683 | 33 | 20 | 56.29701 | 111 | 58 | 15.89249 | 33 | 20 | 56.46606 | 111 | 58 | 18.41028 | 260458 | 208230 |
| SCOR N | 17 | 1 S | 4 E | GPS | 2 | 1991 | 480747.2 | 854446 | C | 1280.37 | 331113 | 3090 | | 7 | 33.34889 | 111.9797 | 1683 | 33 | 20 | 56.00639 | 111 | 58 | 46.97199 | 33 | 20 | 56.17516 | 111 | 58 | 49.49075 | 260449 | 207427 |
| SCOR N | 17 | 1 S | 4 E | SRP PHA | 4 | 1986 | 480747.5 | 854446.5 | C | 0 | 331113 | | | 7 | 33.34889 | 111.9797 | 1683 | 33 | 20 | 56.0116 | 111 | 58 | 46.96823 | 33 | 20 | 56.18037 | 111 | 58 | 49.48699 | 260449 | 207427 |
| SCOR N | 18 | 1 S | 4 E | P&M DIGI | 5 | | 475672 | 854358 | C | 0 | 331113 | | | 7 | 33.34864 | 111.9963 | 1683 | 33 | 20 | 55.10114 | 111 | 59 | 46.80304 | 33 | 20 | 55.26937 | 111 | 59 | 49.32366 | 260422 | 205880 |
| CCOR CT | 19 | 1 S | 4 E | SRP PHA | 4 | 1986 | 478119.6 | 846475.7 | C | 0 | 331113 | | | 7 | 33.32698 | 111.9883 | 1683 | 33 | 19 | 37.12566 | 111 | 59 | 17.88478 | 33 | 19 | 37.29604 | 111 | 59 | 20.4034 | 258020 | 206626 |
| QCOR W | 19 | 1 S | 4 E | SRP PHA | 4 | 1986 | 475607 | 846448.8 | C | 0 | 331113 | | | 7 | 33.3269 | 111.9965 | 1683 | 33 | 19 | 36.84192 | 111 | 59 | 47.49802 | 33 | 19 | 37.01201 | 111 | 59 | 50.01757 | 258012 | 205860 |
| SCOR N | 19 | 1 S | 4 E | SRP PHA | 4 | 1986 | 475627.4 | 849096.4 | C | 0 | 331113 | | | 7 | 33.33418 | 111.9965 | 1683 | 33 | 20 | 3.03848 | 111 | 59 | 47.28099 | 33 | 20 | 3.20795 | 111 | 59 | 49.8009 | 258819 | 205866 |
| 2016- 4 | 20 | 1 S | 4 E | P&M | 3 | 1982 | 483241.2 | 845936.7 | C | 1225.78 | 331113 | 2016 | C/L MED. I-10 | 7 | 33.32551 | 111.9715 | 1683 | 33 | 19 | 31.82329 | 111 | 58 | 17.51711 | 33 | 19 | 31.99439 | 111 | 58 | 20.03375 | 257856 | 208187 |
| 2017- 2 | 20 | 1 S | 4 E | P&M | 3 | 1982 | 483393.9 | 843875.3 | C | 1237.97 | 331113 | 2016 | C/L RAY RD-COTTON PICKER TOOTH | 7 | 33.31984 | 111.971 | 1683 | 33 | 19 | 11.42705 | 111 | 58 | 15.70528 | 33 | 19 | 11.59867 | 111 | 58 | 18.22157 | 257227 | 208233 |
| 3122- 1 | 20 | 1 S | 4 E | GPS | 2 | 1991 | 483460.7 | 849087.9 | C | 1263.63 | 331113 | 3122 | | 7 | 33.33417 | 111.9708 | 1683 | 33 | 20 | 3.00435 | 111 | 58 | 14.9501 | 33 | 20 | 3.17472 | 111 | 58 | 17.4671 | 258816 | 208254 |
| 3122- 2 | 20 | 1 S | 4 E | GPS | 2 | 1991 | 483245.4 | 845940.8 | C | 1225.74 | 331113 | 3122 | | 7 | 33.32552 | 111.9715 | 1683 | 33 | 19 | 31.86361 | 111 | 58 | 17.46856 | 33 | 19 | 32.03471 | 111 | 58 | 19.9852 | 257857 | 208188 |
| CCOR CT | 20 | 1 S | 4 E | TEMPEC | 3 | 1984 | 483389.2 | 846526.7 | C | 0 | 331113 | | SET 1980 @ FENCE COR. IN E.R/W | 7 | 33.32713 | 111.971 | 1683 | 33 | 19 | 37.66211 | 111 | 58 | 15.7772 | 33 | 19 | 37.83309 | 111 | 58 | 18.29387 | 258035 | 208232 |
| QCOR N | 20 | 1 S | 4 E | TEMPEC | 3 | 1984 | 483400.5 | 849178 | C | 0 | 331113 | | @ WARNER & E.R/W OF HWY. | 7 | 33.33442 | 111.971 | 1683 | 33 | 20 | 3.89618 | 111 | 58 | 15.66005 | 33 | 20 | 4.06652 | 111 | 58 | 18.17709 | 258844 | 208235 |
| QCOR W | 20 | 1 S | 4 E | SRP PHA | 4 | 1986 | 480815.3 | 845997.7 | C | 0 | 331113 | | | 7 | 33.32567 | 111.9795 | 1683 | 33 | 19 | 32.41318 | 111 | 58 | 46.10893 | 33 | 19 | 32.58399 | 111 | 58 | 48.62648 | 257874 | 207448 |
| SCOR N | 20 | 1 S | 4 E | P&M DIGI | 5 | | 480789 | 849136 | C | 0 | 331113 | | | 7 | 33.3343 | 111.9796 | 1683 | 33 | 20 | 3.46575 | 111 | 58 | 46.44157 | 33 | 20 | 3.6358 | 111 | 58 | 48.95957 | 258831 | 207439 |
| CCOR CT | 21 | 1 S | 4 E | TEMPEC | 3 | 1984 | 488707.9 | 846555.9 | C | 0 | 331113 | | BRASS CAP @ HARDY & KNOX (UNDER GD.RAIL) | 7 | 33.32722 | 111.9536 | 1683 | 33 | 19 | 37.97386 | 111 | 57 | 13.08974 | 33 | 19 | 38.14545 | 111 | 57 | 15.60443 | 258044 | 209853 |
| QCOR N | 21 | 1 S | 4 E | TEMPEC | 3 | 1984 | 488707.8 | 849214.9 | C | 0 | 331113 | | BRASS CAP @ HARDY & WARNER | 7 | 33.33452 | 111.9536 | 1683 | 33 | 20 | 4.2837 | 111 | 57 | 13.10286 | 33 | 20 | 4.45463 | 111 | 57 | 15.61793 | 258855 | 209853 |
| QCOR W | 21 | 1 S | 4 E | TEMPEC | 3 | 1984 | 486026.5 | 846547.7 | C | 0 | 331113 | | IN OLD PANAL HOLE @ 56TH & KNOX | 7 | 33.32719 | 111.9624 | 1683 | 33 | 19 | 37.88201 | 111 | 57 | 44.69298 | 33 | 19 | 38.05329 | 111 | 57 | 47.20867 | 258042 | 209036 |
| SCOR N | 21 | 1 S | 4 E | TEMPEC | 3 | 1984 | 486024.4 | 849201.8 | C | 0 | 331113 | | BRASS CAP @ 56TH & WARNER | 7 | 33.33448 | 111.9624 | 1683 | 33 | 20 | 4.14425 | 111 | 57 | 44.73169 | 33 | 20 | 4.31488 | 111 | 57 | 47.24775 | 258851 | 209035 |
| CCOR CT | 22 | 1 S | 4 E | TEMPEC | 3 | 1984 | 494018 | 846575.5 | C | 0 | 331113 | | PANELED (MILL) & (KNOX) | 7 | 33.32727 | 111.9363 | 1683 | 33 | 19 | 38.18241 | 111 | 56 | 10.50466 | 33 | 19 | 38.35461 | 111 | 56 | 13.01738 | 258050 | 211472 |
| QCOR N | 22 | 1 S | 4 E | TEMPEC | 3 | 1984 | 493991.4 | 849236.1 | C | 0 | 331113 | | IRON BAR @ WARNER & OLD HOUSE TO S. | 7 | 33.33459 | 111.9363 | 1683 | 33 | 20 | 4.50827 | 111 | 56 | 10.82397 | 33 | 20 | 4.6798 | 111 | 56 | 13.33708 | 258861 | 211464 |
| QCOR W | 22 | 1 S | 4 E | TEMPEC | 3 | 1984 | 491371.7 | 846564 | C | 0 | 331113 | | MARICOPA CO. @ KYRENE & KNOX | 7 | 33.32724 | 111.9449 | 1683 | 33 | 19 | 38.06212 | 111 | 56 | 41.69389 | 33 | 19 | 38.23402 | 111 | 56 | 44.20759 | 258047 | 210665 |
| SCOR N | 22 | 1 S | 4 E | TEMPEC | 3 | 1984 | 491357.2 | 849228.8 | C | 0 | 331113 | | BRASS CAP @ WARNER & KYRENE | 7 | 33.33456 | 111.945 | 1683 | 33 | 20 | 4.43007 | 111 | 56 | 41.87415 | 33 | 20 | 4.6013 | 111 | 56 | 44.38824 | 258859 | 210661 |
| CCOR CT | 23 | 1 S | 4 E | TEMPEC | 3 | 1984 | 499278 | 846586.4 | C | 0 | 331113 | | BRASS CAP @ KNOX & 200'W. LAKESHORE | 7 | 33.3273 | 111.919 | 1683 | 33 | 19 | 38.2955 | 111 | 55 | 8.51017 | 33 | 19 | 38.46831 | 111 | 55 | 11.02093 | 258054 | 213075 |
| QCOR N | 23 | 1 S | 4 E | TEMPEC | 3 | 1984 | 499258.7 | 849261 | C | 0 | 331113 | | BRASS CAP @ WARNER & 150'W.LAKESHORE | 7 | 33.33466 | 111.9191 | 1683 | 33 | 20 | **4.7594 | 111 | 55 | 8.738 | 33 | 20 | 4.93153 | 111 | 55 | 11.24915 | 258869 | 213069 |
| QCOR W | 23 | 1 S | 4 E | TEMPEC | 3 | 1984 | 496662.6 | 846587.4 | C | 0 | 331113 | | BRASS CAP @ RURAL & KNOX | 7 | 33.32731 | 111.9276 | 1683 | 33 | 19 | 38.30375 | 111 | 55 | 39.33505 | 33 | 19 | 38.47626 | 111 | 55 | 41.84678 | 258054 | 212278 |
| SCOR N | 23 | 1 S | 4 E | TEMPEC | 3 | 1984 | 496625.5 | 849243.1 | C | 0 | 331113 | | BRASS CAP @ WARNER & RURAL | 7 | 33.33461 | 111.9277 | 1683 | 33 | 20 | 4.58122 | 111 | 55 | 39.77507 | 33 | 20 | 4.75305 | 111 | 55 | 42.2872 | 258863 | 212267 |
| 2582- 13 | 24 | 1 S | 4 E | P&M | 3 | 1988 | 507221 | 844859 | C | 0 | 331113 | 2582 | | 7 | 33.32255 | 111.893 | 1683 | 33 | 19 | 21.19498 | 111 | 53 | 34.89735 | 33 | 19 | 21.36916 | 111 | 53 | 37.40489 | 257527 | 215496 |
| CCOR CT | 24 | 1 S | 4 E | TEMPEC | 3 | 1984 | 504569.4 | 846621 | C | 0 | 331113 | | @ KNOX & KENWOOD | 7 | 33.3274 | 111.9017 | 1683 | 33 | 19 | 38.63434 | 111 | 54 | 6.14379 | 33 | 19 | 38.80776 | 111 | 54 | 8.65258 | 258064 | 214688 |
| QCOR N | 24 | 1 S | 4 E | TEMPEC | 3 | 1984 | 504603.9 | 849267.3 | C | 0 | 331113 | | STONE @ KENWOOD & 250'W.FAIRFIELD | 7 | 33.33467 | 111.9016 | 1683 | 33 | 20 | 4.81872 | 111 | 54 | 5.73333 | 33 | 20 | 4.99146 | 111 | 54 | 8.2425 | 258871 | 214698 |
| QCOR W | 24 | 1 S | 4 E | TEMPEC | 3 | 1984 | 501892.1 | 846585.8 | C | 0 | 331113 | | BRASS CAP @ MC CLINTOCK & CITY LIMITS | 7 | 33.3273 | 111.9105 | 1683 | 33 | 19 | 38.28887 | 111 | 54 | 37.6996 | 33 | 19 | 38.46199 | 111 | 54 | 40.20938 | 258054 | 213872 |
| SCOR N | 24 | 1 S | 4 E | TEMPEC | 3 | 1984 | 501891.8 | 849232.3 | C | 0 | 331113 | | BRASS CAP @ WARNER & MC CLINTOCK | 7 | 33.33458 | 111.9105 | 1683 | 33 | 20 | 4.47513 | 111 | 54 | 37.70159 | 33 | 20 | 4.64757 | 111 | 54 | 40.21176 | 258860 | 213872 |
| 2583- 28 | 25 | 1 S | 4 E | P&M | 3 | 1988 | 501962.5 | 838648.9 | C | 0 | 331113 | 2583 | | 7 | 33.30549 | 111.9102 | 1683 | 33 | 18 | 19.75528 | 111 | 54 | 36.87489 | 33 | 18 | 19.93043 | 111 | 54 | 39.38349 | 255634 | 213893 |
| GALV | 25 | 1 S | 4 E | GPS | 2 | 1988 | 507170.2 | 841381.6 | C | 0 | 331113 | 2582 | | 7 | 33.313 | 111.8932 | 1683 | 33 | 18 | 46.78713 | 111 | 53 | 35.50521 | 33 | 18 | 46.96221 | 111 | 53 | 38.01226 | 256467 | 215481 |
| QCOR N | 25 | 1 S | 4 E | P&M | 3 | 1988 | 504549.3 | 843975.1 | C | 0 | 331113 | 2582 | | 7 | 33.32013 | 111.9018 | 1683 | 33 | 19 | 12.45437 | 111 | 54 | 6.38588 | 33 | 19 | 12.62847 | 111 | 54 | 8.89429 | 257258 | 214682 |
| SCOR N | 25 | 1 S | 4 E | SRP PHA | 4 | 1986 | 501897.1 | 843920.8 | C | 0 | 331113 | | | 7 | 33.31998 | 111.9105 | 1683 | 33 | 19 | 11.91915 | 111 | 54 | 37.64239 | 33 | 19 | 12.09295 | 111 | 54 | 40.15178 | 257241 | 213873 |
| QCOR N | 26 | 1 S | 4 E | TEMPEC | 3 | 1984 | 499297.4 | 843909.6 | C | 0 | 331113 | | @ RAY & 300'W. OF LAKESHORE | 7 | 33.31995 | 111.919 | 1683 | 33 | 19 | 11.80941 | 111 | 55 | 8.28013 | 33 | 19 | 11.9829 | 111 | 55 | 10.79049 | 257238 | 213081 |
| SCOR N | 26 | 1 S | 4 E | TEMPEC | 3 | 1984 | 496699.6 | 843905.9 | C | 0 | 331113 | | BRASS CAP @ RAY & RURAL | 7 | 33.31994 | 111.9275 | 1683 | 33 | 19 | 11.77136 | 111 | 55 | 38.89629 | 33 | 19 | 11.94455 | 111 | 55 | 41.40762 | 257237 | 212289 |
| QCOR N | 27 | 1 S | 4 E | TEMPEC | 3 | 1984 | 494042 | 843903.7 | C | 0 | 331113 | | @ FENCE CORNER N.SIDE RAY NEAR MILL | 7 | 33.31993 | 111.9362 | 1683 | 33 | 19 | 11.74571 | 111 | 56 | 10.21601 | 33 | 19 | 11.91858 | 111 | 56 | 12.72833 | 257236 | 211479 |

Projects (continued)

(1)

Book 643

WESTERN
HIGHLINE
CANAL
Control & Mapping
3-1-00
S. Anderson
J. Frazee

NGS CONTROL
57 PANELS

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
21780
CLYDE J.
McCARTY
Date signed 10/4/00
ARIZONA, U.S.A.

## CONTROL - (HORIZ.)

"COT-3" Fd. City of Tempe BC, 0.55± Below pvmt, @ Cul-de-Sac, 1/2 mile S. of Warner, on Hardy.

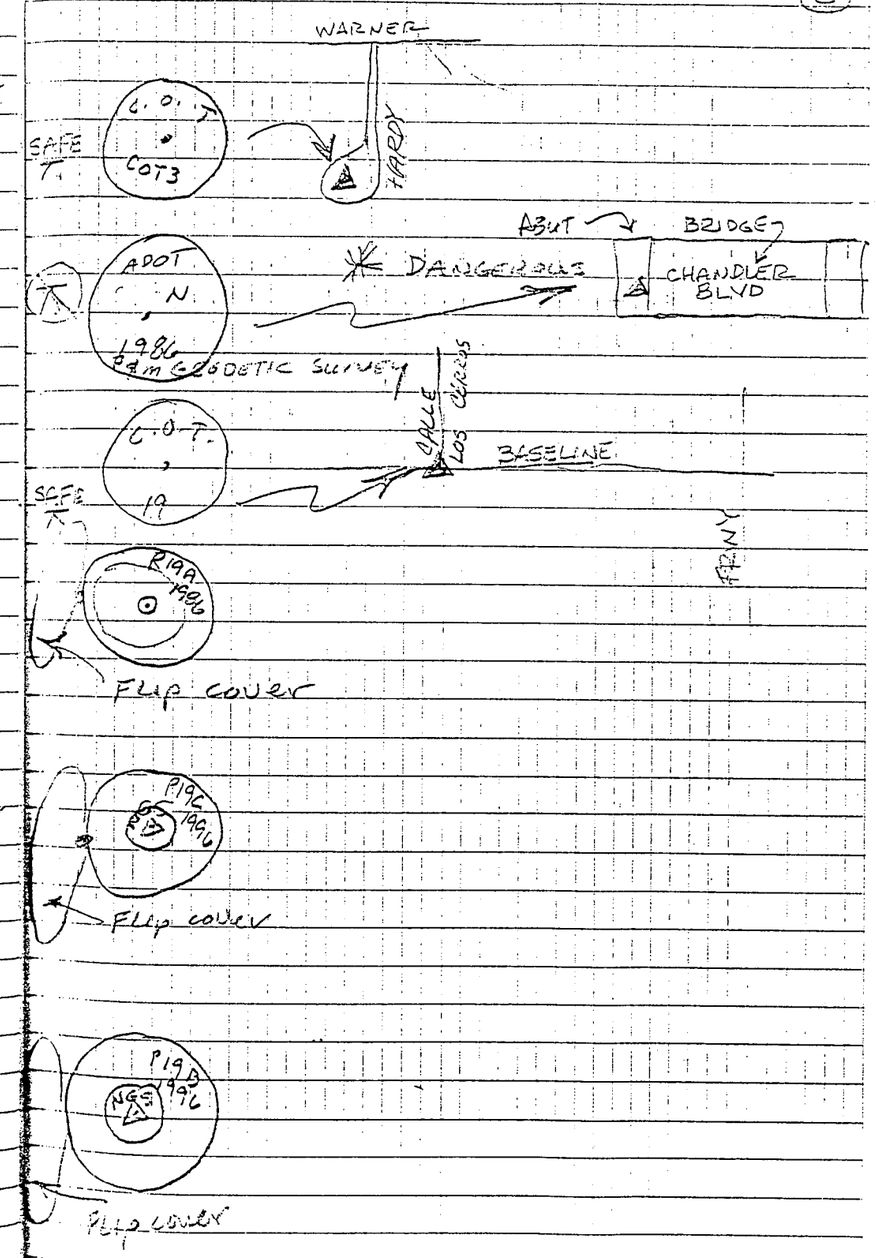
"CHAN" Fd. ADOT Alum Cap Flush @ W. Bridge Abutment, S. side NB Turn Lane I-10 & Chandler Bridge

"CELE" Fd. City of Tempe BC in H.H. @ int. Baseline & Calle Los Cerros (in & painted median) 0.30± Below

"P 19-A" Fd. NGS Alum Tip in Hand Hole - Stamp on Rim 100'± E. of Phillips UG Sign (@ W. side Runway), w/ witness post

"P 19-C" Fd. NGS Alum Cap in Handhole - Stamp on Rim "P19C 1996" 0.40± Below, 15'± W. of W. Edge E. Taxiway, 24'± E. of Storm Grate, opp. NW cor "Landmark Tool & Gage" w/ witness post (N. end Runway

"P-19-B" Fd. NGS Alum cap in HH Stamp "P19B" 1996 0.40± Below 60'± S x 25'± E of S. end CMP, S. of S. end Runway



"COT 4" Fd. CITY OF CHANDLER BC FLUSH @ INT. MISSION PARK BLVD & FIREHOUSE CT. STAMPED "COT 4"

"DU1711" Fd BC @ SE COR OF BASELINE & I-10 @ B/W 2' ABOVE S/W & NW COR OF 3' BLOCK WALL / 6' NW OF JACK IN THE BOX SIGN.
(VERT)

"DU 1699" Fd. ADOT BC @ T/C @ SE COR SOUTHERN & McALLISTER (W. OF RW)
(VERT)

C.O.-C
COT4

ARIZONA HIGHWAY DEPT
ELEV.
1214.32
19

A H.D.
P & M
1262-6
1973

"PANELS"

1 SET PK FLUSH ℄ STARR, 550'± E. OF 48th ST. OPP. "WENDYS"

2 SET PK FLUSH, 175'± W. OF CLEMENTINE & ℄ SOUTHERN

3 SET PK FLUSH, ℄ SOUTHERN, 400'± E. OF COLLEGE

4 SET PK FLUSH IN park LOT, 200'± E x 600'± S. OF KYRENE & SOUTHERN (& "O'BREW")

5 SET P.K. FLUSH @ FAIR & CARSON (N. OF BASELINE, E. OF 48th ST.)

6 SET P.K. FLUSH @ VINEYARD & HANNA (N. OF BASELINE - W. OF WEBOLER)

7 SET PK FLUSH @ MEDIAN @ Canal, ℄ PRIEST

8 SET PK FLUSH @ ROOSEVELT & RIVERA

9 SET P.K. FLUSH @ FOREST & GRANDVIEW (E. OF MILL, S. OF FRWY)

10 SET P.K. FLUSH ℄ KYRENE, 500'± S. OF FRWY

11 FD. C.O. TEMPE BC FLUSH @ ROOSEVELT & ROOSEVELT (N. OF BASELINE)

12 SET PK FLUSH ℄ "BECK," 800'± S. OF BASELINE

13 SET PK FLUSH @ FARMER & COLGATE (W. OF Kyrene, S. OF B-LINE)

14 SET PK FLUSH @ FORDHAM circle & FORDHAM (W. OF college on FORDHAM)

15 SET PK FLUSH @ COMPASS & LEEWARD

16 SET PK FLUSH @ Julie cul-de-sac (W. of College.

17

19 Set PK Flush @ Maxima Solaez & Calle Santos Bravo (S. of Guadalupe E. of Priest)

19 Set PK Flush @ Vaughn & Vaughn (S. of Guadalupe W. of Rorene

20 Set PK Flush @ Forest & Vaughn

21 " " " @ Lizra & E. of Rural

22 " " " @ Lisa & Justice

23 " " " on Rockford - Between Orion & Perseus

24 " " " on ~~Vista~~ Noche de ~~Roca~~ Paz @ Nopal

25 Set PK Flush @ S. End Roosevelt - S. of Diamond

26 Set PK Flush on Bel-Air W. of Rural

27 C.O.T. BC Flush @ Stanley & Dillot

28 C.O.T. BC Flush @ Los Feliz & Drake (N. BC of 2)

29 Set PK Flush @ Stafford dog leg N. of Curry

✓ 30 Set PK Flush in Wal-Mart park lot N. of Airways

✓ 31 Set PK Flush in park lot Industrial Park (N.W. of Sonic on Elliot)

✓ 32 Set PK Flush @ Forest & McNair (N. of Elliot

33 Set PK Flush @ N. End Ki St. (S. of Elliot)

34 Set ½' Rebar Flush N. of RR Tracks

✓ 35 C.O.T. BC FLUSH @ Terrace & Knight (S)

✓ 36 SET PK FLUSH @ NW COR park lot / VE COR INTEL

✗ 37 (inside Gate) [illegible]

✓ 38 C.O.T. BC FLUSH @ EL FREDA & JENTILLY LN (E. OF Rural)

✓ 39 C.O.P. BC FLUSH @ SHASTA & KOSH (S. OF Warner, W. OF Fruny)

✓ 40 SET PK FLUSH ON GREENLEAF 400' ± E OF Priest.

✓ 41 C.O.T. BC FLUSH @ LA VIEVE + FARMER.

✓ 42 ~~SET PK~~ C.O.T. BC FLUSH @ Myrtle + SARAH

✓ 43 C.O.T. BC FLUSH ON AMERICA BETWEEN [illegible] & [illegible].

✓ 44 ~~SET PK~~ C.O.T. BC FLUSH @ WARNER RANCH RD + KNOX (N.)

✓ 45 SET PK FLUSH @ E PARK LOT "MACANDY'S GRILL"

✗ 46 SET PK FLUSH ON PARK AVE BETWEEN [illegible] & [illegible], RAY & FRUNY

✓ 47 SET PK FLUSH @ SE COR PARK LOT SE OF "LAYTON" CONTRACTOR TRAILER

✓ 48 C.O.T. FLUSH @ Monterey + Wyatt.

✓ 49 ~~SET PK FLUSH~~ C.O.T. BC FLUSH @ DEL RIO & ROOSEVELT.

✓ 50 (~~[illegible]~~) C.O.T. BC FLUSH @ DAY & LINDA

✓ 51 SET REBAR IN FIELD N. OF CHURCH / HOTEL

✓52 C.O.C. BC .10 Below Point @ Detroit & Roosevelt.

✓53 ½" Rebar Flush, w. of w. R.O.W. Face

✓54 set PK Flush 60'± SW of Cul de sac on Boston West of Beck. (in Parking Lot.)

✓55 C.O.C. BC Flush @ Face E of Sixth St.

✓56 PK Flush @ Face of Roosevelt

3/22 (8)

M. Bordona
D. Rodriguez

| | + | ⊼ | − | ELEV. | DESC. |
|---|---|---|---|---|---|
| | | | | 1169.95 | B... OF ROAD VAULT |
| | 7 [illegible] | 73 [illegible] | | | |
| TP#1 | | | 6 [illegible] | 66 [illegible] | X on s/w NSE |
| | 4 [illegible] | 70 [illegible] | | | |
| TP#2 | | | 5 [illegible] | 65 [illegible] | V on s/w |
| | 4 [illegible] | 69 [illegible] | | | |
| TP#3 | | | 5 [illegible] | 64 [illegible] | X on s/w |
| | 4 [illegible] | 63 [illegible] | | | |
| TP#4 | | | 5 [illegible] | 63 [illegible] | X on s/w |
| | 3 [illegible] | 67 [illegible] | | | |
| BC | | | 4 [illegible] | 63 [illegible] | B... |
| [illegible] | | | | 63 [illegible] | Flush |
| [illegible] | | | | | |
| | | | TP#4 S/W. 63 [illegible] | | |
| side [illegible] | 5 [illegible] | 67 [illegible] | | | |
| BF TP#4 TO | | | 5 [illegible] | 63 [illegible] | panel #3 |
| panel #3 | 5 [illegible] | 67 [illegible] | | | |
| BC [illegible] panel [illegible] | | | 5 [illegible] | 63 [illegible] | |

START

BC ON 12RG VAULT

S.R.V.W.D. Pachuca Sector Columbia Sanitary Dist

BC Flush IN panel

OFFICE OF ENGR. 1262-3-1

| Desc. | + | π | − | ELEV. | | Desc. | |
|---|---|---|---|---|---|---|---|
| | | | | $63^{19}$ | | BC Flush | Hanger Fastener |
| | $4^{31}$ | $68^{-}$ | | | | intersection | |
| TP#5 | | | $5^{33}$ | $62^{27}$ | | x on s/w | North side sidewalk |
| | $4^{-}$ | $67^{-}$ | | | | | |
| TP#6 | | | $5^{32}$ | $62^{37}$ | | x on s/w | " |
| | $5^{32}$ | $6[illegible]$ | | | | | |
| TP#7 | | | $4^{[illegible]}$ | $63^{37}$ | | x on s/w | " |
| | $4^{72}$ | $6[illegible]^{[illegible]}$ | | | | | |
| TP#8 | | | $5^{53}$ | $63^{[illegible]}$ | | x [illegible] | |
| | $5^{-}$ | $67^{72}$ | | | | | |
| TP#9 | | | $4^{[illegible]}$ | $63^{03}$ | | x on s/w | N.W. [illegible] |
| | $4^{35}$ | $67^{53}$ | | | | | |
| TP#10 | | | $5^{24}$ | $62^{34}$ | | x on s/w | North side sidewalk |
| | $5^{24}$ | $67^{33}$ | | | | | |
| TP#11 | | | $4^{45}$ | $62^{73}$ | | x on s/w | " |
| Sidewalk panel 2 | $4^{70}$ | $67^{63}$ | $4^{91}$ | $62^{72}$ | | panel 2 | |
| | $5^{[illegible]}$ | $67^{21}$ | | | | | |
| TP#12 | | | 1[illegible] | $57^{21}$ | | BC [illegible] | |

TP #25

$62^{93} + 4^{72} = 67^{65}$ $\quad - 4^{72} = 62^{93}$

$-4^{21}$

$62^{72}$ panel 2

| Point | + | T | − | ELEV | | Rm | |
|---|---|---|---|---|---|---|---|
| | 1 [illegible] | 59 [illegible] | | | | | |
| TP#13 | | | 11 [illegible] | 49 [illegible] | under [illegible] | X on [illegible] | N [illegible] |
| | 4 [illegible] | 57 [illegible] | | | | | |
| TP#14 | | | 0 [illegible] | 57 [illegible] | W [illegible] | X on [illegible] | " |
| | 10 [illegible] | 67 [illegible] | | | West [illegible] | X on [illegible] | " |
| TP#15 | | | 5 [illegible] | 62 [illegible] | W [illegible] | X on [illegible] | " |
| | 4 [illegible] | 1 [illegible] | | | | | |
| TP#16 | | | 5 [illegible] | 61 [illegible] | N.W. corr | Point X on [illegible] | " |
| | 4 [illegible] | 66 [illegible] | | | | | |
| TP#17 | | | 5 [illegible] | 61 [illegible] | | X on [illegible] | " |
| | 4 [illegible] | 65 [illegible] | | | | | |
| TP#18 | | | 5 [illegible] | 60 [illegible] | | X on [illegible] | N.W. corr S. [illegible] |
| | 4 [illegible] | 6[illegible] [illegible] | | | | | |
| Panel Set #1 | | | 4 [illegible] | 60 [illegible] | | PK nail Flush pvmnt | |
| | | | | 1160.04 | | ≤ Southern | |

| Pt | + | π | − | ELEV. | | Desc. PK Pin | Pt Ctl |
|---|---|---|---|---|---|---|---|
| | | | | 60 01 | | | |
| | 5 05 | 65 09 | | | | | |
| TP=19 | | | 4 40 | 60 37 | | x on s/w | south side [illegible] |
| | 5 35 | 65 62 | | | | | |
| [illegible] | | | 4 65 | 60 96 | | x on s/w | " |
| | 5 [illegible] | 65 47 | | | | | |
| TP=21 | | | 4 74 | 61 63 | | x on s/w | " |
| | 5 45 | 67 13 | | | | | |
| TP=22 | | | 5 22 | 62 [illegible] | | x on s/w | " |
| | 1 22 | 67 22 | | | | | |
| TP#23 | | | 15 [illegible] | 43 12 | | [illegible] x on s/w | " |
| | 0 91 | 57 08 | | | | | |
| TP=24 | | | 0 32 | 56 76 | | x on s/w | " |
| | 11 11 | 67 87 | | | | | |
| TP#25 | | | 5 07 | 62 90 | | x on s/w | " |
| | 4 54 | 67 74 | | | | | |
| TP=26 | | | 4 74 | 62 [illegible] | | x on s/w | |

Loop BACK From PANEL #1

| | | | | | |
|---|---|---|---|---|---|
| [illegible] | + | T. | — | [illegible] | [illegible] |
| [illegible] | | | | 62.[illegible] | X on s/w south side southern |
| | 5[illegible] | 6[illegible] | | | |
| TP # [illegible] | | | 4[illegible] | 62[illegible] | X on s/w " |
| | 5[illegible] | 6[illegible] | | | |
| TP # [illegible] | | | 5[illegible] | 63[illegible] | X on s/w " |
| | 5[illegible] | 63[illegible] | | | |
| TP # 29 | | | 4[illegible] | 63[illegible] | X on s/w north side southern |
| | 4[illegible] | 6[illegible] | | | |
| TP # 30 | | | 5[illegible] | 62[illegible] | X on s/w south side southern |
| | 5[illegible] | 63[illegible] | | | |
| TP # 31 | | | 5[illegible] | 62[illegible] | X on s/w south side southern |
| | 5[illegible] | 63[illegible] | | | |
| BC Flush | | | 5[illegible] | 63[illegible] | 63.14 center |
| Hardy & southern | | | | | 63.19 intersection |
| | | | | | − .05 |
| Pkg ONE | | | | | |

| Desc. | + | π | − | Elev. | Desc. |
|---|---|---|---|---|---|
| Rwch | 6 41 | 69 44 | | 63 03 | TP # 9 |
| TP # 32 | | | 3 51 | 65 92 | x on top wet post |
| | 6 25 | 72 15 | | | |
| TP # 33 | | | 2 31 | 69 84 | x on [illegible] " |
| | [illegible] | 70 51 | | | |
| TP # 34 | | | 2 [illegible] | 77 81 | x on [illegible] " |
| | [illegible] | 82 49 | | | |
| TP # 35 | | | 0 25 | 91 74 | x on [illegible] " |
| | 4 01 | 95 75 | | | |
| TP # 36 | | | 3 10 | 82 [illegible] | x on [illegible] " |
| | 6 24 | 89 13 | | | |
| TP # 37 | | | 2 [illegible] | 87 [illegible] | x on [illegible] " |
| | 7 02 | 94 12 | | | |
| TP # 38 | | | 3 05 | 91 [illegible] | |
| | 9 55 | 100 65 | | | |
| TP # 39 | | | 2 [illegible] | 93 15 | |

DAY TWO 3/23

(13)

M. Ponciano

Dave Rodriguez

| Desc. | + | Σ | − | Elev. | Desc. | |
|---|---|---|---|---|---|---|
| | 8.[illegible] | 120.[illegible] | | 9-[illegible] | Wash | West side |
| TP#45 | | | 0.[illegible] | 120.[illegible] | | |
| | [illegible] | 12[illegible] | | | | |
| TP#46 | | | 1.[illegible] | 112.81 | x on s/w | West side West |
| | 9.[illegible] | 121.[illegible] | | | | |
| TP#42 | | | 0.[illegible] | 121.46 | x on s/w | |
| | 7.[illegible] | 12[illegible].65 | | | | |
| TP#[illegible] | | | 2.[illegible] | 126.[illegible] | x on curb | West side West |
| | 5.[illegible] | 12[illegible].[illegible] | | | | |
| TP#44 | | | 2.[illegible] | 132.[illegible] | x on curb " | |
| | 8.[illegible] | 140.[illegible] | | | | |
| TP#45 | | | 1.31 | 138.[illegible] | x on s/w " | |
| | 7.[illegible] | 146.[illegible] | | | | |
| TP#46 | | | 3.[illegible] | 143.41 | x on pivot " Bus Bay | |
| | 6.[illegible] | 150.[illegible] | | | | |
| TP#47 | | | 2.[illegible] | 147.[illegible] | x on s/w " | |
| | 5.[illegible] | 153.[illegible] | | | | |

| Point | + | Π | − | Elev. | | Desc. |
|---|---|---|---|---|---|---|
| | | 153.22 | | | | |
| TP#43 | | | 4.22 | 148.92 | | X on s/w |
| | 5.22 | 151.71 | | | | |
| [illegible] | | | 2.47 | 151.51 | | Glass [illegible] |
| TP#50 SIDE SHOT | | 151.31 | 1.22 | 153.25 | West | Flag [illegible] X on [illegible] |
| | Loop | Back | Down | Forward | | East side s/w |
| | | | | 151.84 | | Gate [illegible] |
| | 2.12 | 151.72 | | | | |
| TP#51 | | | 5.22 | 148.72 | | X on s/w. East side |
| S.O. EZ on [illegible] | | | 5.22 | 148.92 | Elev | X on s/w West side |
| | 3.22 | 148.52 | | | | |
| TP#50 | | | 6.22 | 146.32 | | X on s/w East side |
| | 3.22 | 149.52 | | | | |
| TP#51 | | | 6.33 | 143.83 | | X on CL [illegible] |
| | 3.22 | 146.62 | | | | |
| TP#54 | | | 8.51 | 137.93 | Front | X on CL [illegible] Yellow line |
| | 2.52 | 140.92 | | | | |
| TP#55 | | | 9.12 | 132.72 | | [illegible] |
| | 2.12 | 139.32 | | | | |

| Date | + | π | − | [illegible] | Desc |
|---|---|---|---|---|---|
| [illegible] | | | 2 22 | 132 19 | TP #44 [illegible] |
| | | 131.39 | | | |
| TP #[illegible] | | | 7 92 | 125 49 | x on 3/. [illegible] |
| | 0 22 | 125.71 | | | |
| TP #57 | | | 6 21 | 121.72 | x on [illegible] |
| | | | 7 20 | 121 92 | TP #[illegible] |
| | 0 22 | 121.94 | | | |
| TP #58 | | | 9 42 | 112.52 | x on [illegible] |
| | 2 22 | 114.53 | | | |
| TP #59 | | | 3 22 | 111.12 | [illegible] NE [illegible] |
| | 0 72 | 111.93 | | | |
| TP #60 | | | 12 62 | 99 32 | x on 3/. [illegible] |
| | 2 92 | 101.52 | | | |
| TP #61 | | | 5 72 | 95 72 | x on [illegible] |
| | 1 22 | 97 92 | | | |
| TP #62 | | | 7 93 | 89 92 | x on [illegible] |
| | 3 52 | 92 52 | | | |
| TP #63 | | | 7 92 | [illegible] | x on [illegible] |

| Prod. | + | π | − | Elev. | Desc. |
|---|---|---|---|---|---|
| | $3^{\frac{32}{}}$ | $89^{\frac{32}{}}$ | | $89^{\frac{32}{}}$ | |
| TP #1 | | | $5^{\frac{32}{}}$ | $81^{\frac{32}{}}$ | |
| on panel 15 | | | | | PANEL SHOT TOP LID |
| | $6^{\frac{32}{}}$ | $89^{\frac{32}{}}$ | | | |
| SIDE SHOT — 7 pL | | → | $5^{\frac{32}{}}$ | $93^{\frac{32}{}}$ | PANEL 7 pL |
| TP #68 | | $89^{\frac{32}{}}$ → | $10^{\frac{32}{}}$ | $77^{\frac{32}{}}$ | |
| | | $79^{\frac{32}{}}$ | | | |
| TP #69 | | | $7^{\frac{32}{}}$ | $72^{\frac{32}{}}$ | X on NW CNR SHOT |
| | $3^{\frac{32}{}}$ | $75^{\frac{32}{}}$ | | | |
| TP #68 | | | $7^{\frac{32}{}}$ | $65^{\frac{32}{}}$ | X on NW CNR SHOT |
| | | $79^{\frac{32}{}}$ | | | |
| TP #68 | | | $7^{\frac{32}{}}$ | $65^{\frac{32}{}}$ | X on NW CNR SHOT |
| | $4^{\frac{32}{}}$ | $69^{\frac{32}{}}$ | | | |
| TP #69 START PT. = TP #9 | | | $6^{\frac{32}{}}$ | $63^{\frac{32}{}}$ | TP #9 X on NW CNR |
| | | | | $63^{\frac{32}{}}$ | |
| | | | | $-.01$ | |

$1^{\frac{32}{}} - 89^{\frac{32}{}} = 2^{\frac{32}{}} - 5^{\frac{32}{}}$ +.01

D. MEYERHOFF
S.E. CNR

| Desc. | + | π | − | ELEV. | Desc. |
|---|---|---|---|---|---|
| | $5^{32}$ | $157^{22}$ | | 151.91 | Guardrail ~~Fire Hydr.~~ |
| Side Shot | | | $3^{92}$ | 154.22 | Flg pole |
| TP # 70 | | | $0^{72}$ | 156.42 | |
| | $14^{22}$ | $171.14$ | | | |
| TP # 71 | | | $0^{71}$ | 170.71 | painted nail |
| | $16^{55}$ | $157^{26}$ | | | |
| TP # 72 | | | $0^{44}$ | $136^{22}$ | paint on curb |
| | $15^{90}$ | $202^{27}$ | | | |
| TP # 73 | | | $0^{55}$ | 201.72 | paint on pavment |
| | $7^{21}$ | $209^{43}$ | | | |
| TP # 74 | | | $8^{24}$ | 201.19 | " |
| | $1^{13}$ | $202^{37}$ | | | |
| TP # 75 | | | $17^{44}$ | $184^{93}$ | " |
| | $4^{73}$ | $189^{21}$ | | | |
| TP # 76 | | | $5^{04}$ | $184^{62}$ | " |
| | $5^{20}$ | $189^{73}$ | | | |
| TP # 77 | | | $7^{14}$ | $182^{59}$ | " |
| | $4^{13}$ | $186.77$ | | | |
| TP # 78 | | | $5^{25}$ | 181.53 | " |



ELV. = 153.25 Flag pole 200 FT WEST of Flag & Guardrail
$15^{3.26}$ Ar[illegible] pole [illegible]
+.01

| Desc. | + | π | − | Elev. | | Desc. | |
|---|---|---|---|---|---|---|---|
| | | | | 181.52 | | TP# 72 | |
| | 4 21 | 186.31 | | | | | |
| TP# 79 | | | 6 72 | 179.63 | | paint on pavement | |
| | 5 72 | 18[illegible] | | | | | |
| TP# 80 | | | 5 21 | 17[illegible].61 | | paint on pavement | |
| | 5 21 | 181.07 | | | | | |
| TP# 81 | | | 4 22 | 179.35 | | PANEL 57 | |
| Panel 57 | | | | 1279.31 | – | | |
| | Loop | Back | | | | | |
| Back | 4 42 | 183 95 | | 179 35 | | pa[illegible] 57 | |
| TP# 82 | | | 3 43 | 180 35 | | paint on pavement | |
| | 4 32 | 18[illegible] 21 | | | | | |
| Side of [illegible] | | | 5 32 | 179 66 | START OVER | START BACK | |
| PANEL 57 | Day Three | | | 179 35 | | panel 57 | |
| | 4 64 | 183.72 | | | | | |
| TP# 83 | | | 2 92 | 181 07 | | X on curb front | |
| | 4 24 | 185 31 | | | | | |
| TP# 84 | | | 3 16 | 182 15 | | X on curb | |
| | 4 33 | 186 43 | | | | | |
| TP# 85 | | | 3 32 | 183 66 | | X on curb | |
| | 5 32 | 189 31 | | | | | |

3 51 S.O. TP# 73 Elev. = 181.53
1281.53

| Pt. | + | π | − | Elev. | Desc. |
|---|---|---|---|---|---|
| | 5.65 | 157.21 | | 153.56 | |
| TP# | | 4.56 | | 154.52 | X on pavement |
| | 5.12 | 154.60 | 4.72 | 154.92 → 154.72 | Sub-sta T on TP# 75 |
| TP# 87 | | 4.80 | | 154.92 | X on Curb |
| | 17.80 | 202.72 | | | |
| TP# 89 | | 12.72 | | 189.72 | X on Curb North side |
| | 0.22 | 189.72 | | | |
| TP# 89 | | 17.00 | | 172.92 | X on Curb North side |
| | 0.23 | 173.10 | | | |
| TP# 90 | | 14.11 | | 158.99 | X on Curb East |
| | 0.42 | 159.71 | | | |
| TP# 91 | | 6.15 | | 153.21 | Dist Turner |
| Flag pole | | | | 153.25 | Amy's flag pole |
| | | | | -.04 | |
| | 2.90 | 156.11 | | | |
| TP#92 | | 4.32 | | 151.79 | Lamp post Top nut on Fire Hydr. |
| Fire Hydr. | | | | 151.90 | Front nut |
| press + bad. | | | | -.05 | |
| Closed -.05 | | | | | |

In Apartments

In Apartments

Apartments

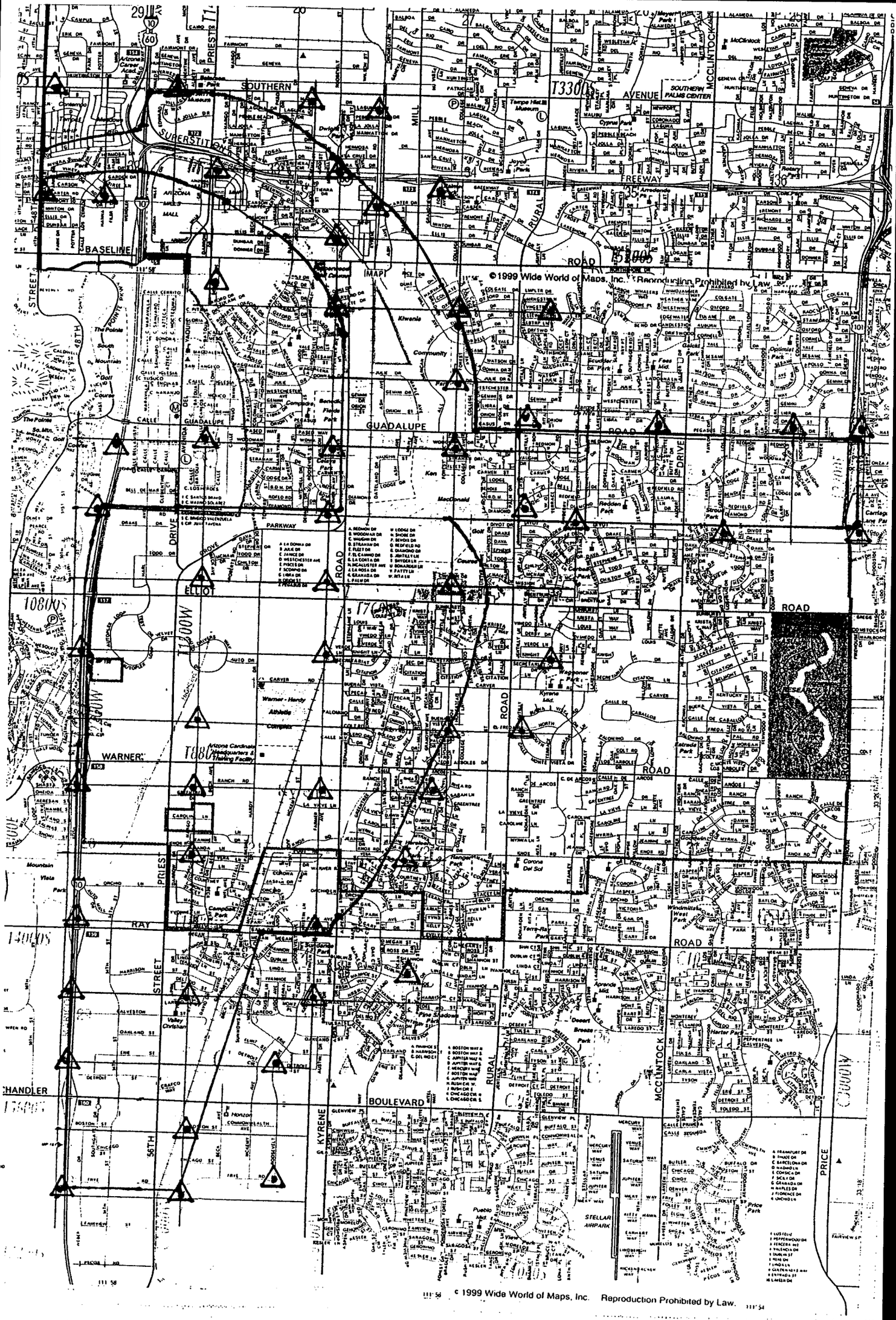
Guadalupe

Guadalupe

Guadalupe & parkway

N.W. corner

press + Guadalupe




CONTROL LAYOUT 57 panels

WESTERN-HIGHLINE

SECTIONS 31-36

Not 6, 7

The Geographic Calculator - Version 3.09

Registered to 'ME AND MY BUSINESS'

Date: 03/21/00 Time: 12:11:37

Blue Marble Geographics
46 Water Street, Gardiner, Maine 04345 USA
(207) 582-6747 FAX (207) 582-7001

| | 500 | 500 |
|---|---|---|
| Latitude: (Degrees) | 33 21 55.03161 n | |
| Longitude: (Degrees) | 111 56 10.04491 w | |
| Ellip. Ht.: (Feet) | 0.00 | |
| Northing: (Feet) | | 860435.5538 |
| Easting: (Feet) | | 694059.7084 |
| Convergence: (Degrees) | - - - - - | -0° 0' 38.52586" |
| Scale Factor: | - - - - - | 0.999900040399 |
| System: | Geodetic | United States State Plane 1983 |
| Datum Transf.: | World Geodetic System 1984 | North American Datum 1983 |
| Ellipsoid: | WGS 1984 | GRS 1980 |
| Zone: | - - - - - | 202 - Arizona Central |

Datum Shift: (Seconds) 0.00000" S , 0.00000" W
Datum Shift: (Meters) 0.00 S , 0.00 W

The Geographic Calculator - Version 3.09

Registered to 'ME AND MY BUSINESS'

Date: 03/21/00 Time: 13:20:01

Blue Marble Geographics
46 Water Street, Gardiner, Maine 04345 USA
(207) 582-6747 FAX (207) 582-7001

| | 1003 | 1003 |
|---|---|---|
| Latitude: (Degrees) | 33 23 09.53885 N | |
| Longitude: (Degrees) | 111 54 32.45274 W | |
| Northing: (Feet) | | 867965.3945 |
| Easting: (Feet) | | 702335.6444 |
| Convergence: (Degrees) | - - - - - | 0° 0' 15.15976" |
| Scale Factor: | - - - - - | 0.999900006245 |
| System: | Geodetic | United States State Plane 1983 |
| Datum Transf.: | World Geodetic System 1984 | North American Datum 1983 |
| Ellipsoid: | WGS 1984 | GRS 1980 |
| Zone: | - - - - - | 202 - Arizona Central |
| Datum Shift: (Seconds) | 0.00000" S , 0.00000" W | |
| Datum Shift: (Meters) | 0.00 S , 0.00 W | |

The Geographic Calculator - Version 3.09

Registered to 'ME AND MY BUSINESS'

Date: 03/21/00 Time: 12:22:44

Blue Marble Geographics
46 Water Street, Gardiner, Maine 04345 USA
(207) 582-6747 FAX (207) 582-7001

| | 1002 | 1002 |
|---|---|---|
| Latitude: (Degrees) | 33 19 38.58936 n | |
| Longitude: (Degrees) | 111 57 15.80151 w | |
| Northing: (Feet) | | 846647.1812 |
| Easting: (Feet) | | 688478.1041 |
| Convergence: (Degrees) | - - - - - | -0° 1' 14.61805" |
| Scale Factor: | - - - - - | 0.999900151987 |
| System: | Geodetic | United States State Plane 1983 |
| Datum Transf.: | World Geodetic System 1984 | North American Datum 1983 |
| Ellipsoid: | WGS 1984 | GRS 1980 |
| Zone: | - - - - - | 202 - Arizona Central |

Datum Shift: (Seconds) 0.00000" S , 0.00000" W
Datum Shift: (Meters) 0.00 S , 0.00 W

The Geographic Calculator - Version 3.09

Registered to 'ME AND MY BUSINESS'

Date: 03/21/00 Time: 12:23:22

Blue Marble Geographics
46 Water Street, Gardiner, Maine 04345 USA
(207) 582-6747 FAX (207) 582-7001

| | 1001 | 1001 |
|---|---|---|
| Latitude: (Degrees) | 33 22 41.52734 n | |
| Longitude: (Degrees) | 111 58 26.68022 w | |
| Northing: (Feet) | | 865139.0646 |
| Easting: (Feet) | | 682474.6806 |
| Convergence: (Degrees) | - - - - - | -0° 1' 53.71648" |
| Scale Factor: | - - - - - | 0.999900351630 |
| System: | Geodetic | United States State Plane 1983 |
| Datum Transf.: | World Geodetic System 1984 | North American Datum 1983 |
| Ellipsoid: | WGS 1984 | GRS 1980 |
| Zone: | - - - - - | 202 - Arizona Central |
| Datum Shift: (Seconds) | 0.00000" S , 0.00000" W | |
| Datum Shift: (Meters) | 0.00 S , 0.00 W | |

The Geographic Calculator - Version 3.09

Registered to 'ME AND MY BUSINESS'

Date: 03/21/00 Time: 12:24:08

Blue Marble Geographics
46 Water Street, Gardiner, Maine 04345 USA
(207) 582-6747 FAX (207) 582-7001

| | 1004 | 1004 |
|---|---|---|
| Latitude: (Degrees) | 33 23 34.64228 n | |
| Longitude: (Degrees) | 111 56 36.09755 w | |
| Northing: (Feet) | | 870503.5163 |
| Easting: (Feet) | | 691852.8453 |
| Convergence: (Degrees) | - - - - - | -0° 0' 52.89400" |
| Scale Factor: | - - - - - | 0.999900075991 |
| System: | Geodetic | United States State Plane 1983 |
| Datum Transf.: | World Geodetic System 1984 | North American Datum 1983 |
| Ellipsoid: | WGS 1984 | GRS 1980 |
| Zone: | - - - - - | 202 - Arizona Central |
| Datum Shift: (Seconds) | 0.00000" S , 0.00000" W | |
| Datum Shift: (Meters) | 0.00 S , 0.00 W | |

The Geographic Calculator - Version 3.09

Registered to 'ME AND MY BUSINESS'

Date: 03/21/00 Time: 12:24:47

Blue Marble Geographics
46 Water Street, Gardiner, Maine 04345 USA
(207) 582-6747 FAX (207) 582-7001

| | 0029 | 0029 |
|---|---|---|
| Latitude: (Degrees) | 33 21 22.31737 n | |
| Longitude: (Degrees) | 111 53 45.06677 w | |
| Northing: (Feet) | | 857129.2738 |
| Easting: (Feet) | | 706355.5154 |
| Convergence: (Degrees) | - - - - - | 0° 0' 41.20460" |
| Scale Factor: | - - - - - | 0.999900046244 |
| System: | Geodetic | United States State Plane 1983 |
| Datum Transf.: | World Geodetic System 1984 | North American Datum 1983 |
| Ellipsoid: | WGS 1984 | GRS 1980 |
| Z | - - - - - | 202 - Arizona Central |

Datum Shift: (Seconds) 0.00000" S , 0.00000" W
Datum Shift: (Meters) 0.00 S , 0.00 W

The Geographic Calculator - Version 3.09

Registered to 'ME AND MY BUSINESS'

Date: 03/21/00 Time: 12:25:23

Blue Marble Geographics
46 Water Street, Gardiner, Maine 04345 USA
(207) 582-6747 FAX (207) 582-7001

| | 0057 | 0057 |
|---|---|---|
| Latitude: (Degrees) | 33 21 24.99151 n | |
| Longitude: (Degrees) | 111 58 16.35468 w | |
| Northing: (Feet) | | 857403.2672 |
| Easting: (Feet) | | 683346.1783 |
| Convergence: (Degrees) | - - - - - | -0° 1' 47.97447" |
| Scale Factor: | - - - - - | 0.999900317529 |
| System: | Geodetic | United States State Plane 1983 |
| Datum Transf.: | World Geodetic System 1984 | North American Datum 1983 |
| Ellipsoid: | WGS 1984 | GRS 1980 |
| Zone: | - - - - - | 202 - Arizona Central |
| Datum Shift: (Seconds) | 0.00000" S , 0.00000" W | |
| Datum Shift: (Meters) | 0.00 S , 0.00 W | |

The Geographic Calculator - Version 3.09

Registered to 'ME AND MY BUSINESS'

Date: 03/21/00 Time: 12:28:46

Blue Marble Geographics
46 Water Street, Gardiner, Maine 04345 USA
(207) 582-6747 FAX (207) 582-7001

| | 1006 | 1006 |
|---|---|---|
| Latitude: (Degrees) | 33 19 25.52590 n | |
| Longitude: (Degrees) | 111 53 32.07349 w | |
| Northing: (Feet) | | 845325.6817 |
| Easting: (Feet) | | 707460.3152 |
| Convergence: (Degrees) | - - - - - | 0° 0' 48.30780" |
| Scale Factor: | - - - - - | 0.999900063720 |
| System: | Geodetic | United States State Plane 1983 |
| Datum Transf.: | World Geodetic System 1984 | North American Datum 1983 |
| Ellipsoid: | WGS 1984 | GRS 1980 |
| Zone: | - - - - - | 202 - Arizona Central |

Datum Shift: (Seconds) 0.00000" S , 0.00000" W
Datum Shift: (Meters) 0.00 S , 0.00 W

The Geographic Calculator - Version 3.09

Registered to 'ME AND MY BUSINESS'

Date: 03/21/00 Time: 12:29:33

Blue Marble Geographics
46 Water Street, Gardiner, Maine 04345 USA
(207) 582-6747 FAX (207) 582-7001

| | 0056 | 0056 |
|---|---|---|
| Latitude: (Degrees) | 33 17 54.51089 n | |
| Longitude: (Degrees) | 111 57 04.06024 w | |
| Northing: (Feet) | | 836127.9228 |
| Easting: (Feet) | | 689470.8017 |
| Convergence: (Degrees) | - - - - - | -0° 1' 8.11433" |
| Scale Factor: | - - - - - | 0.999900126926 |
| System: | Geodetic | United States State Plane 1983 |
| Datum Transf.: | World Geodetic System 1984 | North American Datum 1983 |
| Ellipsoid: | WGS 1984 | GRS 1980 |
| Zone: | - - - - - | 202 - Arizona Central |

Datum Shift: (Seconds) 0.00000" S , 0.00000" W
Datum Shift: (Meters) 0.00 S , 0.00 W

The Geographic Calculator - Version 3.09

Registered to 'ME AND MY BUSINESS'

Date: 03/21/00 Time: 12:30:18

Blue Marble Geographics
46 Water Street, Gardiner, Maine 04345 USA
(207) 582-6747 FAX (207) 582-7001

| | 1005 | 1005 |
|---|---|---|
| Latitude: (Degrees) | 33 18 13.07845 n | |
| Longitude: (Degrees) | 111 54 55.56710 w | |
| Northing: (Feet) | | 838002.7532 |
| Easting: (Feet) | | 700376.2054 |
| Convergence: (Degrees) | - - - - - | 0° 0' 2.43418" |
| Scale Factor: | - - - - - | 0.999900000162 |
| System: | Geodetic | United States State Plane 1983 |
| Datum Transf.: | World Geodetic System 1984 | North American Datum 1983 |
| Ellipsoid: | WGS 1984 | GRS 1980 |
| Zone | - - - - - | 202 - Arizona Central |

Datum Shift: (Seconds) 0.00000" S , 0.00000" W
Datum Shift: (Meters) 0.00 S , 0.00 W

The Geographic Calculator - Version 3.09

Registered to 'ME AND MY BUSINESS'

Date: 03/21/00 Time: 12:30:55

Blue Marble Geographics
46 Water Street, Gardiner, Maine 04345 USA
(207) 582-6747 FAX (207) 582-7001

| | 0053 | 0053 |
|---|---|---|
| Latitude: (Degrees) | 33 17 53.67673 n | |
| Longitude: (Degrees) | 111 58 22.27581 w | |
| Northing: (Feet) | | 836046.4998 |
| Easting: (Feet) | | 682832.4704 |
| Convergence: (Degrees) | - - - - - | -0° 1' 51.05733" |
| Scale Factor: | - - - - - | 0.999900337425 |
| System: | Geodetic | United States State Plane 1983 |
| Datum Transf.: | World Geodetic System 1984 | North American Datum 1983 |
| Ellipsoid: | WGS 1984 | GRS 1980 |
| Zone: | - - - - - | 202 - Arizona Central |

Datum Shift: (Seconds) 0.00000" S , 0.00000" W
Datum Shift: (Meters) 0.00 S , 0.00 W

The Geographic Calculator - Version 3.09

Re[illegible]tered to 'ME AND MY BUSINESS'

Date: 03/28/00 Time: 08:46:47

Blue Marble Geographics
46 Water Street, Gardiner, Maine 04345 USA
(207) 582-6747 FAX (207) 582-7001

| | CHAN | CHAN |
|---|---|---|
| Latitude: (Degrees) | 33 18 18.78258 N | |
| Longitude: (Degrees) | 111 58 21.40133 W | |
| Northing: (Feet) | | 838583.8322 |
| Easting: (Feet) | | 682908.0495 |
| Convergence: (Degrees) | - - - - - | -0° 1' 50.59769" |
| Scale Factor: | - - - - - | 0.999900334460 |
| System: | Geodetic | United States State Plane 1983 |
| Datum Transf.: | World Geodetic System 1984 | North American Datum 1983 |
| Ellipsoid: | WGS 1984 | GRS 1980 |
| Z[illegible] | - - - - - | 202 - Arizona Central |

Datum Shift: (Seconds) 0.00000" S , 0.00000" W
Datum Shift: (Meters) 0.00 S , 0.00 W

STANLEY CONSULTANTS

# GPS LOG SHEET

Date: ~~3-11-00~~ 3-20-00
Job#: _____
Desc.: _____

Rover Rec.#: _____ Ant.#: _____

Base Rec.#: _____ Ant.#: _____

Crew: _____

## Base Point Parameters

| POINT | ANT. HT. | Type | DESCRIPTION |
|---|---|---|---|
| 1002 | 6.766 | | NGS COT 3 |

## Rover Parameters

| Observ. Interval | Observ. Duration | Method |
|---|---|---|
| 10s | 20 MIN | DOUBLE OCCUPY |

| Session | RVR 1 (ADAM) | Ant. Ht. | Type | RVR 2 (BRAD) | Ant. Ht. | Type | RVR 3 | Ant. Ht. | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 57 (PP) | 6.675 FT | S | 53 (PP) | 6.991 FT | S | | | |
| 2 | 56 (PP) | | | 53 (PP) | | | | | |
| 3 | 56 (PP) | | | 1005 (P19C) | | | | | |
| 4 | 1006 (COT4) | | | 1005 (P19C) | | | | | |
| 5 | 1006 (COT4) | | | 29 (PP) | | | | | |
| 6 | 57 (PP) | 6.675 FT | S | 29 (PP) | 6.991 FT | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |

Antenna Height Types: S = Slope Measurement I = Instrument Height T = True Vertical

DAY 75, 1ST GROUP, ADJUSTED

# Site Positions

western highline canal

**Horizontal Coordinate System:** World Geodetic Sys. 1984 **Date:** 03/21/00
**Height System:** Ortho. Ht. (EGM96) **Project file:** western highline canal.spr
**Desired Horizontal Accuracy:** 0.080m + 10ppm
**Desired Vertical Accuracy:** 0.080m + 10ppm
**Confidence Level:** 95% Err.
**Linear Units of Measure:** Meters

| Fix Status | Site Position ID Status | Site Name | | Position | 95% Error |
|---|---|---|---|---|---|
| 1 Adjusted | 0500 | | Lat. | 33° 21′ 55.03161″ N | 0.014 |
| | | | Lon. | 111° 56′ 10.04491″ W | 0.013 |
| | | | Elv. | 362.743 | 0.073 |
| 2 Adjusted | 1003 | | Lat. | 33° 23′ 9.53885″ N | 0.025 |
| | | | Lon. | 111° 54′ 32.45274″ W | 0.027 |
| | | | Elv. | 362.746 | 0.000 |
| 3 Fixed | 1002 Adjusted | cot3 | Lat. | 33° 19′ 38.58936″ N | 0.000 |
| Fixed | | | Lon. | 111° 57′ 15.80151″ W | 0.000 |
| | | | Elv. | 364.616 | 0.189 |
| 4 Fixed | 1001 Adjusted | cele | Lat. | 33° 22′ 41.52734″ N | 0.000 |
| Fixed | | | Lon. | 111° 58′ 26.68022″ W | 0.000 |
| | | | Elv. | 369.863 | 0.076 |
| 5 Adjusted | 1004 | | Lat. | 33° 23′ 34.64228″ N | 0.021 |
| | | | Lon. | 111° 56′ 36.09755″ W | 0.020 |
| | | | Elv. | 356.601 | 0.000 |
| Fixed | | | | | |
| 6 Adjusted | 0029 | | Lat. | 33° 21′ 22.31737″ N | 0.023 |
| | | | Lon. | 111° 53′ 45.06677″ W | 0.025 |
| | | | Elv. | 362.412 | 0.105 |
| 7 Adjusted | 0057 | | Lat. | 33° 21′ 24.99151″ N | 0.020 |
| | | | Lon. | 111° 58′ 16.35468″ W | 0.011 |
| | | | Elv. | 390.048 | 0.118 |

Site Elevation

| | ID | Site Name | Factor |
|---|---|---|---|
| 1 | 0500 | | 0.99994783 |
| 2 | 1003 | | 0.99994782 |
| 3 | 1002 | cot3 | 0.99994754 |
| 4 | 1001 | cele | 0.99994672 |
| 5 | 1004 | | 0.99994879 |
| 6 | 0029 | | 0.99994788 |
| 7 | 0057 | | 0.99994355 |

# Network Relative Accuracy

western highline canal

**Desired Horizontal Accuracy:** 0.080m + 10ppm **Date:** 03/21/00
**Desired Vertical Accuracy:** 0.080m + 10ppm **Project file:** western highline canal.spr
**Confidence Level:** 95% Err.
**Linear Units of Measure:** Meters

| Site | Site Pair | | Relative Error | Allow. Error | Horizontal Relative Acc | Vertical Relative Acc | Site Distance | Pair QA |
|---|---|---|---|---|---|---|---|---|
| 1 | 1001 | Lat | 0.014 | 0.089 | 1:277816 | 1:67059 | 3811.616 | |
| | 0500 | Lng | 0.014 | 0.089 | | | | |
| | | Elv | 0.057 | 0.089 | | | | |
| 2 | 0500 | Lat | 0.020 | 0.087 | 1:174087 | 1:47050 | 3410.854 | |
| | 1003 | Lng | 0.018 | 0.087 | | | | |
| | | Elv | 0.073 | 0.087 | | | | |
| 3 | 0500 | Lat | 0.018 | 0.086 | 1:178120 | 1:43326 | 3142.039 | |
| | 1004 | Lng | 0.016 | 0.086 | | | | |
| | | Elv | 0.073 | 0.086 | | | | |
| 4 | 0500 | Lat | 0.016 | 0.089 | 1:247542 | 1:58245 | 3881.459 | |
| | 0029 | Lng | 0.016 | 0.089 | | | | |
| | | Elv | 0.067 | 0.089 | | | | |
| 5 | 0057 | Lat | 0.024 | 0.087 | 1:144318 | 1:55865 | 3394.376 | |
| | 0500 | Lng | 0.016 | 0.087 | | | | |
| | | Elv | 0.061 | 0.087 | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 | **1001** | Lat | 0.022 | 0.087 | 1:152763 | 1:43087 |
| 3293.583 | | | | | | |
| | **1004** | Lng | 0.020 | 0.087 | | |
| | | Elv | 0.076 | 0.087 | | |
| 7 | **0500** | Lat | 0.014 | 0.092 | 1:330513 | 1:36149 |
| 4534.650 | | | | | | |
| | **1002** | Lng | 0.014 | 0.092 | | |
| | | Elv | 0.125 | 0.092 | | |
| **Fail** | | | | | | |
| 8 | **0029** | Lat | 0.024 | 0.102 | 1:247941 | 1:45397 |
| 6317.547 | | | | | | |
| | **1002** | Lng | 0.025 | 0.102 | | |
| | | Elv | 0.139 | 0.102 | | |
| **Fail** | | | | | | |
| 9 | **1004** | Lat | 0.020 | 0.086 | 1:167753 | 1:0 |
| 3287.967 | | | | | | |
| | **1003** | Lng | 0.018 | 0.086 | | |
| | | Elv | 0.000 | 0.086 | | |
| 10 | **1001** | Lat | 0.020 | 0.083 | 1:121082 | 1:40360 |
| 2373.228 | | | | | | |
| | **0057** | Lng | 0.012 | 0.083 | | |
| | | Elv | 0.059 | 0.083 | | |

STANLEY CONSULTANTS

1st. Control Session

# GPS LOG SHEET

Date: ~~3-10-00~~ Rover Base Crew: B. ROBBERSON
Job#: Rec.#: Rec.#:
Desc.: Ant.#: Ant.#:

Base Point Parameters

| POINT | ANT. HT. | Type | DESCRIPTION |
|---|---|---|---|
| 500 | 6.766 ( ) | | SET BASE POINT |

Rover Parameters

| Observ. Interval | Observ. Duration | Method |
|---|---|---|
| 10 S | 20 MIN | Double Occupy |

| Session | RVR 1 (ADAM) | Ant. Ht. | Type | RVR 2 (BEAD) | Ant. Ht. | Type | RVR 3 | Ant. Ht. | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | CELE 1001 | 6.675 | S | PP5T (57) | 6.991 | S | | | |
| 2 | CoT 3 1002 | | | PP5T (57) | | | | | |
| 3 | CoT 3 1002 | | | PP 29 (29) | | | | | |
| 4 | 360-D 1003 | | | PP29 (29) | | | | | |
| 5 | 360-D 1003 | | | SGT 138 (1004) | | | | | |
| 6 | CELE 1001 | 6.675 | S | SGT 138 (1004) | 6.991 | S | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Antenna Height Types: S = Slope Measurement I = Instrument Height T = True Vertical

JF\se\may002.doc

STANLEY CONSULTANTS

# GPS LOG SHEET

Date: 3-12-00
Job#: _____
Desc.: _____

Rover
Rec.#: _____
Ant.#: _____

Base
Rec.#: _____
Ant.#: _____

Crew: D. A. HINSON
P. WASHINGTON

## Base Point Parameters

| POINT | ANT. HT. | Type | DESCRIPTION |
|---|---|---|---|
| 500 | 6.6766 FT. | | SET BASE PT. (CAPPED REBAR) |

2.0622 m

## Rover Parameters

| Observ. Interval | Observ. Duration | Method |
|---|---|---|
| 10 SEC | 20 MIN | DOUBLE QUICK |

| Session | RVR 1 (ADAM) | Ant. Ht. 2.0345 m | Type | RVR 2 (BRAD) | Ant. Ht. 2.1308M | Type | RVR 3 | Ant. Ht. | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | (CELE) 1001 | 6.675 FT | S | (DPS7) 0057 | 6.991 FT | | | | |
| 2 | (LOT 3) 1002 | | | (PP 59) 0057 | | | | | |
| 3 | (LOT 3) 1002 | | | (PP 29) 0029 | | | | | |
| 4 | (360-0) 1003 | | | (PP 29) 0029 | | | | | |
| 5 | (360-0) 1003 | | | (SGT 38) 1004 | | | | | |
| 6 | (CELE) 1001 | 6.675 FT | S | (SGT 38) 1004 | 6.991 FT | | | | |
| | | 2.0345 m | | | 2.1308M | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Antenna Height Types: S = Slope Measurement I = Instrument Height T = True Vertical

# The NGS Data Sheet

```
DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 6.11
Starting Datasheet Retrieval...
1        National Geodetic Survey,   Retrieval Date = MARCH 21, 2000
 DU1696 ***********************************************************************
 DU1696  DESIGNATION -  360 D                                  NGVD 29
 DU1696  PID         -  DU1696
 DU1696  STATE/COUNTY-  AZ/MARICOPA
 DU1696  USGS QUAD   -  TEMPE (1986)                           362.746 M
 DU1696
 DU1696                          *CURRENT SURVEY CONTROL
 DU1696
 DU1696* NAD 83(1986)-  33 23 08.     (N)    111 54 35.     (W)     SCALED
 DU1696* NAVD 88     -       363.337  (meters)    1192.05   (feet)  ADJUSTED
 DU1696
 DU1696  GEOID HEIGHT-         -29.71  (meters)                     GEOID99
 DU1696  DYNAMIC HT  -         362.915 (meters)    1190.66   (feet)  COMP
 DU1696  MODELED GRAV-     979,466.1   (mgal)                       NAVD 88
 DU1696
 DU1696  VERT ORDER  -  SECOND    CLASS I
 DU1696
 DU1696.The horizontal coordinates were scaled from a topographic map and have
 DU1696.an estimated accuracy of +/- 6 seconds.
 DU1696
 DU1696.The orthometric height was determined by differential leveling
 DU1696.and adjusted by the National Geodetic Survey in January 1998.
 DU1696
 DU1696.The geoid height was determined by GEOID99.
 DU1696
 DU1696.The dynamic height is computed by dividing the NAVD 88
 DU1696.geopotential number by the normal gravity value computed on the
 DU1696.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DU1696.degrees latitude (G = 980.6199 gals.).
 DU1696
 DU1696.The modeled gravity was interpolated from observed gravity values.
 DU1696
 DU1696;                    North         East     Units  Estimated Accuracy
 DU1696;SPC AZ C     -   264,510.      214,010.      MT  (+/- 180 meters Scaled)
 DU1696
 DU1696                          SUPERSEDED SURVEY CONTROL
 DU1696
 DU1696.No superseded survey control is available for this station.
 DU1696
 DU1696_MARKER: DD = SURVEY DISK
 DU1696_SETTING: 31 = BRIDGE WALKWAY
 DU1696_STAMPING: 360 D 81
 DU1696_MAGNETIC: N = NO MAGNETIC MATERIAL
 DU1696_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
 DU1696_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
 DU1696+SATELLITE: SATELLITE OBSERVATIONS - October 12, 1994
 DU1696
 DU1696  HISTORY     - Date     Condition        Recov. By
 DU1696  HISTORY     - 1981     MONUMENTED       AZDT
 DU1696  HISTORY     - 19941012 GOOD             NGS
 DU1696
 DU1696                          STATION DESCRIPTION
 DU1696
 DU1696'DESCRIBED BY ARIZONA DEPARTMENT OF TRANSPORTATION 1981
 DU1696'IN TEMPE.
 DU1696'IN TEMPE, 7 MI (11.27 KM) WEST ALONG S.R. 360 FROM THE INTERSECTION OF
 DU1696'GILBERT ROAD TO MC CLINTOCK DRIVE, STATION LOCATED AT NORTHEAST CORNER
 DU1696'OF OVERPASS, THE MARK IS 1.0 FT (.30 METERS) SOUTH OF NORTH EXPANSION
 DU1696'JOINT, 10.0 FT (30.5 METERS) WEST OF CHAIN LINK FENCE, 47.5 FT
```

```
DU1696'(14.48 METERS) EAST OF CENTERLINE OF MC CLINTOCK DRIVE, A STANDARD
DU1696'AZDT ALUMINUM CAP EPOXIED ON BRIDGE SIDEWALK
DU1696
DU1696                          STATION RECOVERY (1994)
DU1696
DU1696'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1994 (GAS)
DU1696'IN TEMPE, AT THE INTERSECTION OF MCCLINTOCK DRIVE AND U.S.  HIGHWAY
DU1696'60, IN TOP OF AND 0.3 M (1.0 FT) SOUTH OF THE NORTH END OF THE EAST
DU1696'CONCRETE WALKWAY OF THE DRIVE OVERPASS OF THE HIGHWAY, 21.9 M (71.9
DU1696'FT) NORTH OF THE CENTERLINE OF THE WESTBOUND LANES OF THE HIGHWAY, 6.1
DU1696'M (20.0 FT) EAST OF AND LEVEL WITH THE CENTERLINE OF THE NORTHBOUND
DU1696'LANES OF THE ROAD, 3.0 M (9.8 FT) WEST OF A CHAIN LINK FENCE, 0.3 M
DU1696'(1.0 FT) SOUTH OF THE NORTH EXPANSION JOINT, AND 0.2 M (0.7 FT) EAST
DU1696'OF THE EAST BRIDGE RAIL.
1        National Geodetic Survey,   Retrieval Date = MARCH 21, 2000
DU1665 ***********************************************************************
DU1665  DESIGNATION -  360 DD
DU1665  PID         -  DU1665
DU1665  STATE/COUNTY-  AZ/MARICOPA
DU1665  USGS QUAD   -  MESA (1983)
DU1665
DU1665                          *CURRENT SURVEY CONTROL
DU1665
DU1665* NAD 83(1986)-  33 23 11.     (N)    111 47 28.     (W)     SCALED
DU1665* NAVD 88     -      375.570  (meters)    1232.18   (feet)  ADJUSTED
DU1665
DU1665  GEOID HEIGHT-        -29.71  (meters)                      GEOID99
DU1665  DYNAMIC HT  -        375.125 (meters)    1230.72   (feet)  COMP
DU1665  MODELED GRAV-     979,440.6  (mgal)                       NAVD 88
DU1665
DU1665  VERT ORDER  -  SECOND    CLASS I
DU1665
DU1665.The horizontal coordinates were scaled from a topographic map and have
DU1665.an estimated accuracy of +/- 6 seconds.
DU1665
DU1665.The orthometric height was determined by differential leveling
DU1665.and adjusted by the National Geodetic Survey in January 1998.
DU1665
DU1665.The geoid height was determined by GEOID99.
DU1665
DU1665.The dynamic height is computed by dividing the NAVD 88
DU1665.geopotential number by the normal gravity value computed on the
DU1665.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DU1665.degrees latitude (G = 980.6199 gals.).
DU1665
DU1665.The modeled gravity was interpolated from observed gravity values.
DU1665
DU1665;                    North         East     Units  Estimated Accuracy
DU1665;SPC AZ C     -   264,610.      225,040.      MT  (+/- 180 meters Scaled)
DU1665
DU1665                          SUPERSEDED SURVEY CONTROL
DU1665
DU1665.No superseded survey control is available for this station.
DU1665
DU1665_MARKER: DD = SURVEY DISK
DU1665_SETTING: 32 = CULVERT HEADWALL
DU1665_STAMPING: 360-DD
DU1665_MAGNETIC: N = NO MAGNETIC MATERIAL
DU1665_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DU1665+STABILITY: SURFACE MOTION
DU1665_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DU1665+SATELLITE: SATELLITE OBSERVATIONS - October 12, 1994
DU1665
DU1665  HISTORY     - Date     Condition        Recov. By
DU1665  HISTORY     - 1981     MONUMENTED       AZDT
```

```
DU1665  HISTORY      - 19941012 GOOD              NGS
DU1665  HISTORY      - 19941012 MARK NOT FOUND    NGS
DU1665
DU1665                          STATION DESCRIPTION
DU1665
DU1665'DESCRIBED BY ARIZONA DEPARTMENT OF TRANSPORTATION 1981
DU1665'IN MESA.
DU1665'IN MESA, PROCEED 2 MILES (3.22 KM) SOUTH OF INTERSECTION OF POWER ROAD
DU1665'AND U.S. 60 TO CENTERLINE OF SUPERSTITION FREEWAY CORRIDOR, THENCE
DU1665'WEST 6 MILES (9.66 KM) TO GILBERT ROAD, STATION LOCATED 356.7 FT
DU1665'(107.19 METERS) NORTH OF CENTERLINE OF PROPOSED SUPERSTITION FREEWAY,
DU1665'AND 92.6 FT (28.26 METERS) WEST OF CENTERLINE OF GILBERT ROAD, A
DU1665'STANDARD AZDT ALUMINUM CAP SET IN CONCRETE HEADWALL.
DU1665
DU1665                          STATION RECOVERY (1994)
DU1665
DU1665'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1994 (GAS)
DU1665'IN MESA, AT THE INTERSECTION OF GILBERT ROAD AND U.S.  HIGHWAY 60, IN
DU1665'TOP OF AND 2.2 M (7.2 FT) NORTH OF THE SOUTH END OF THE WEST CONCRETE
DU1665'HEADWALL OF A CULVERT UNDER THE ROAD, 101.0 M (331.4 FT) NORTH OF THE
DU1665'CENTER OF THE WESTBOUND LANES OF THE HIGHWAY, 19.7 M (64.6 FT) WEST OF
DU1665'THE CENTER OF THE SOUTHBOUND LANES OF THE ROAD, 2.8 M (9.2 FT) WEST OF
DU1665'A CHAIN-LINK FENCE, AND 1.5 M (4.9 FT) BELOW THE LEVEL OF THE DRIVE.
DU1665
DU1665                          STATION RECOVERY (1994)
DU1665
DU1665'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1994 (GAS)
DU1665'A THOROUGH SEARCH REVEALED NO EVIDENCE OF THE MARK.
Elapsed Time = 00:00:04
```

# The NGS Data Sheet

```
DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 6.11
Starting Datasheet Retrieval...
1        National Geodetic Survey,   Retrieval Date = MARCH 21, 2000
 DU1702 ***********************************************************************
 DU1702  DESIGNATION -  SGT 38                          NGVD 29
 DU1702  PID         -  DU1702
 DU1702  STATE/COUNTY-  AZ/MARICOPA                     356.601 m
 DU1702  USGS QUAD   -  TEMPE (1986)
 DU1702
 DU1702                          *CURRENT SURVEY CONTROL
 DU1702
 DU1702* NAD 83(1986)-  33 23 34.     (N)    111 56 35.     (W)     SCALED
 DU1702* NAVD 88     -      357.214  (meters)    1171.96   (feet)  ADJUSTED
 DU1702
 DU1702  GEOID HEIGHT-         -29.68  (meters)                     GEOID99
 DU1702  DYNAMIC HT  -         356.803 (meters)    1170.61   (feet)  COMP
 DU1702  MODELED GRAV-     979,476.1   (mgal)                       NAVD 88
 DU1702
 DU1702  VERT ORDER  -  SECOND    CLASS I
 DU1702
 DU1702.The horizontal coordinates were scaled from a topographic map and have
 DU1702.an estimated accuracy of +/- 6 seconds.
 DU1702
 DU1702.The orthometric height was determined by differential leveling
 DU1702.and adjusted by the National Geodetic Survey in January 1998.
 DU1702
 DU1702.The geoid height was determined by GEOID99.
 DU1702
 DU1702.The dynamic height is computed by dividing the NAVD 88
 DU1702.geopotential number by the normal gravity value computed on the
 DU1702.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DU1702.degrees latitude (G = 980.6199 gals.).
 DU1702
 DU1702.The modeled gravity was interpolated from observed gravity values.
 DU1702
 DU1702;                    North         East     Units  Estimated Accuracy
 DU1702;SPC AZ C     -   265,310.      210,910.      MT  (+/- 180 meters Scaled)
 DU1702
 DU1702                          SUPERSEDED SURVEY CONTROL
 DU1702
 DU1702.No superseded survey control is available for this station.
 DU1702
 DU1702_MARKER: DB = BENCH MARK DISK
 DU1702_SETTING: 30 = CONCRETE HEADGATE
 DU1702_STAMPING: SGT 38
 DU1702_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
 DU1702
 DU1702  HISTORY     - Date     Condition        Recov. By
 DU1702  HISTORY     - UNK      MONUMENTED       SRVWUA
 DU1702  HISTORY     - 1981     GOOD             AZDT
 DU1702
 DU1702                          STATION DESCRIPTION
 DU1702
 DU1702'DESCRIBED BY ARIZONA DEPARTMENT OF TRANSPORTATION 1981
 DU1702'IN TEMPE.
 DU1702'IN TEMPE, 1.0 MI (1.61 KM) WEST ALONG SOUTHERN AVENUE FROM THE
 DU1702'INTERSECTION OF RURAL ROAD TO THE INTERSECTION OF THE SOUTHERN PACIFIC
 DU1702'RAILROAD TRACK AND THE MARK IN THE NORTHEAST CORNER, 35 FT
 DU1702'(10.66 METERS) EAST OF THE CENTERLINE OF RAILROAD TRACKS, 40 FT
 DU1702'(12.19 METERS) NORTH OF THE CENTERLINE OF SOUTHERN AVENUE, ON THE
 DU1702'NORTH SIDE OF A 4- BY 10-FOOT CONCRETE BOX, A STANDARD SRVWUA BRASS
 DU1702'CAP EPOXIED ON WALL.
```

Elapsed Time = 00:00:04

# The NGS Data Sheet

```
DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 6.11
Starting Datasheet Retrieval...
1        National Geodetic Survey,   Retrieval Date = MARCH 20, 2000
 AI1915 ***********************************************************************
 AI1915  DESIGNATION -  CELE
 AI1915  PID         -  AI1915
 AI1915  STATE/COUNTY-  AZ/MARICOPA
 AI1915  USGS QUAD   -  TEMPE (1986)
 AI1915
 AI1915                        *CURRENT SURVEY CONTROL
 AI1915  ___________________________________________________________________
 AI1915* NAD 83(1992)-  33 22 41.52734(N)    111 58 26.68022(W)     ADJUSTED
 AI1915* NAVD 88     -       370.4    (meters)    1215.     (feet)  GPS OBS
 AI1915  ___________________________________________________________________
 AI1915  X           -  -1,995,089.925 (meters)                    COMP
 AI1915  Y           -  -4,944,460.265 (meters)                    COMP
 AI1915  Z           -   3,489,248.909 (meters)                    COMP
 AI1915  LAPLACE CORR-          -0.09  (seconds)                   DEFLEC99
 AI1915  ELLIP HEIGHT-         340.65  (meters)                    GPS OBS
 AI1915  GEOID HEIGHT-         -29.69  (meters)                    GEOID99
 AI1915
 AI1915  HORZ ORDER  -  A
 AI1915  ELLP ORDER  -  FIRST     CLASS I
 AI1915
 AI1915.The horizontal coordinates were established by GPS observations
 AI1915.and adjusted by the National Geodetic Survey in September 1999.
 AI1915
 AI1915.The orthometric height was determined by GPS observations.
 AI1915
 AI1915.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AI1915
 AI1915.The Laplace correction was computed from DEFLEC99 derived deflections.
 AI1915
 AI1915.The ellipsoidal height was determined by GPS observations
 AI1915.and is referenced to NAD 83.
 AI1915
 AI1915.The geoid height was determined by GEOID99.
 AI1915
 AI1915;                    North         East     Units   Scale      Converg.
 AI1915;SPC AZ C     -   263,694.387   208,018.283   MT  0.99990035 -0 01 53.7
 AI1915;UTM  12      - 3,693,639.487   409,394.173   MT  0.99970121 -0 32 09.4
 AI1915
 AI1915                          SUPERSEDED SURVEY CONTROL
 AI1915
 AI1915.No superseded survey control is available for this station.
 AI1915
 AI1915_MARKER: DD = SURVEY DISK
 AI1915_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 AI1915_MAGNETIC: N = NO MAGNETIC MATERIAL
 AI1915_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 AI1915+STABILITY: SURFACE MOTION
 AI1915_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AI1915+SATELLITE: SATELLITE OBSERVATIONS - February 04, 1999
 AI1915
 AI1915  HISTORY     - Date     Condition        Recov. By
 AI1915  HISTORY     - UNK      MONUMENTED       AZ0490
 AI1915  HISTORY     - 19990204 GOOD             AZ0420
 AI1915
 AI1915                          STATION DESCRIPTION
 AI1915
 AI1915'DESCRIBED BY CITY OF SCOTTSDALE ARIZONA 1999 (DLE)
 AI1915'THE STATION IS LOCATED IN THE WEST PART OF TEMPE, ABOUT 0.75 MI (1.21
```

AI1915'KM) SOUTHWEST OF THE JUNCTION OF INTERSTATE HIGHWAY 10 AND STATE
AI1915'HIGHWAY 60 (SUPERSTITION FREEWAY), AT THE CENTERLINE INTERSECTION OF
AI1915'BASELINE ROAD AND S. CALLE LOS CERROS. OWNERSHIP--CITY OF TEMPE. TO
AI1915'REACH THE STATION FROM THE INTERSECTION OF MILL AVENUE AND 5TH STREET
AI1915'IN TEMPE, GO SOUTH FOR 3.2 MI (5.1 KM) ON MILL AVENUE TO BASELINE
AI1915'ROAD. TURN RIGHT AND GO WEST FOR 2.0 MI (3.2 KM) ON BASELINE ROAD TO
AI1915'THE JUNCTION OF CALLE LOS CERROS AND THE STATION. THE STATION IS
AI1915'RECESSED 14 CM BELOW GROUND. LOCATED 164.46 FT (50.13 M) WEST FROM
AI1915'THE MEDIAN CURB, 101.86 FT (31.05 M) NORTHWEST FROM A POWER BOX, 86.23
AI1915'FT (26.28 M) SOUTHEAST FROM THE NORTHWEST CORNER OF CURB, 84.63 FT
AI1915'(25.80 M) SOUTHWEST FROM A FIRE HYDRANT AND 41.36 FT (12.61 M) NORTH
AI1915'FROM THE SOUTH CURB OF BASELINE ROAD. ACCESS TO THE STATION IS THROUGH
AI1915'A HAND HOLE.
Elapsed Time = 00:00:04

# The NGS Data Sheet

```
DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 6.11
Starting Datasheet Retrieval...
1        National Geodetic Survey,   Retrieval Date = MARCH 20, 2000
 AI1918 ***********************************************************************
 AI1918  DESIGNATION -  COT3
 AI1918  PID         -  AI1918
 AI1918  STATE/COUNTY-  AZ/MARICOPA
 AI1918  USGS QUAD   -  GUADALUPE (1991)
 AI1918
 AI1918                         *CURRENT SURVEY CONTROL
 AI1918  ______________________________________________________________________
 AI1918* NAD 83(1992)-  33 19 38.58936(N)    111 57 15.80151(W)     ADJUSTED
 AI1918* NAVD 88     -       365.0    (meters)    1198.     (feet)  GPS OBS
 AI1918  ______________________________________________________________________
 AI1918  X           -  -1,994,547.617 (meters)                    COMP
 AI1918  Y           -  -4,948,015.484 (meters)                    COMP
 AI1918  Z           -   3,484,537.902 (meters)                    COMP
 AI1918  LAPLACE CORR-          -1.01 (seconds)                    DEFLEC99
 AI1918  ELLIP HEIGHT-         335.27 (meters)                     GPS OBS
 AI1918  GEOID HEIGHT-         -29.73 (meters)                     GEOID99
 AI1918
 AI1918  HORZ ORDER  -  A
 AI1918  ELLP ORDER  -  FIRST     CLASS I
 AI1918
 AI1918.The horizontal coordinates were established by GPS observations
 AI1918.and adjusted by the National Geodetic Survey in September 1999.
 AI1918
 AI1918.The orthometric height was determined by GPS observations.
 AI1918
 AI1918.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AI1918
 AI1918.The Laplace correction was computed from DEFLEC99 derived deflections.
 AI1918
 AI1918.The ellipsoidal height was determined by GPS observations
 AI1918.and is referenced to NAD 83.
 AI1918
 AI1918.The geoid height was determined by GEOID99.
 AI1918
 AI1918;                     North         East     Units   Scale      Converg.
 AI1918;SPC AZ C     -   258,058.061   209,848.126   MT  0.99990015 -0 01 14.6
 AI1918;UTM  12      - 3,687,988.418   411,174.008   MT  0.99969728 -0 31 27.8
 AI1918
 AI1918                           SUPERSEDED SURVEY CONTROL
 AI1918
 AI1918.No superseded survey control is available for this station.
 AI1918
 AI1918_MARKER: DD = SURVEY DISK
 AI1918_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 AI1918_STAMPING: COT3
 AI1918_MAGNETIC: N = NO MAGNETIC MATERIAL
 AI1918_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 AI1918+STABILITY: SURFACE MOTION
 AI1918_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AI1918+SATELLITE: SATELLITE OBSERVATIONS - February 12, 1999
 AI1918
 AI1918  HISTORY     - Date     Condition        Recov. By
 AI1918  HISTORY     - UNK      MONUMENTED       AZ0490
 AI1918  HISTORY     - 19990212 GOOD             AZ0420
 AI1918
 AI1918                           STATION DESCRIPTION
 AI1918
 AI1918'DESCRIBED BY CITY OF SCOTTSDALE ARIZONA 1999 (DLE)
```

```
AI1918'THE STATION IS LOCATED ABOUT 7 MI (11.3 KM) SOUTH-SOUTHWEST OF THE
AI1918'CENTER OF TEMPE, IN THE CENTER OF THE CUL-DE-SAC ON HARDY ROAD.
AI1918'OWNERSHIP--CITY OF TEMPE.  TO REACH THE STATION FROM THE INTERSECTION
AI1918'OF MILL AVENUE AND 5TH STREET IN TEMPE, GO SOUTH FOR 3.5 MI (5.6 KM)
AI1918'ON MILL AVENUE TO BASELINE ROAD.  TURN RIGHT AND GO WEST FOR 0.5 MI
AI1918'(0.8 KM) ON BASELINE ROAD TO KYRENE ROAD.  TURN LEFT AND GO SOUTH FOR
AI1918'3.0 MI (4.8 KM) ON KYRENE ROAD TO WARNER ROAD.  TURN RIGHT AND GO WEST
AI1918'FOR 0.5 MI (0.8 KM) ON WARNER ROAD TO HARDY ROAD.  TURN LEFT AND GO
AI1918'SOUTH FOR 0.5 MI (0.8 KM) ON HARDY ROAD TO THE STATION.  THE STATION
AI1918'IS FLUSH WITH GROUND AT THE CENTER OF THE CUL-DE-SAC. LOCATED 60.63 FT
AI1918'(18.48 M) SOUTHEAST FROM A LIGHT POLE, 59.71 FT (18.20 M) WEST FROM A
AI1918'FIRE HYDRANT, 57.7 FT (17.6 M) NORTH FROM A SEWER MANHOLE, 49.4 FT
AI1918'(15.1 M) SOUTH FROM A SEWER MANHOLE AND 43.32 FT (13.20 M) EAST FROM
AI1918'THE CURB OF HARDY ROAD.
Elapsed Time = 00:00:02
```

DAY 80 (DAY 76 data), Adjusted.

# Site Positions

whc2

| | | | |
|---|---|---|---|
| **Horizontal Coordinate System:** | World Geodetic Sys. 1984 | **Date:** | 03/22/00 |
| **Height System:** | Ortho. Ht. (EGM96) | **Project file:** | whc2.spr |
| **Desired Horizontal Accuracy:** | 0.080m + 10ppm | | |
| **Desired Vertical Accuracy:** | 0.080m + 10ppm | | |
| **Confidence Level:** | 95% Err. | | |
| **Linear Units of Measure:** | Meters | | |

| | Site ID | Site Name | Position | 95% Error | Fix Status | Position Status |
|---|---|---|---|---|---|---|
| 1 | 1002 | cot3 | Lat. 33° 19′ 38.58936″ N | 0.000 | Fixed | Adjusted |
| | | | Lon. 111° 57′ 15.80151″ W | 0.000 | Fixed | |
| | | | Elv. 364.556 | 0.123 | | |
| 2 | 1006 | | Lat. 33° 19′ 25.52590″ N | 0.015 | | Adjusted |
| | | | Lon. 111° 53′ 32.07349″ W | 0.012 | | |
| | | | Elv. 361.202 | 0.140 | | |
| 3 | 0056 | | Lat. 33° 17′ 54.51089″ N | 0.021 | | Adjusted |
| | | | Lon. 111° 57′ 4.06024″ W | 0.012 | | |
| | | | Elv. 352.987 | 0.240 | | |
| 4 | 0057 | | Lat. 33° 21′ 24.99151″ N | 0.000 | Fixed | Adjusted |
| | | | Lon. 111° 58′ 16.35468″ W | 0.000 | Fixed | |
| | | | Elv. 390.048 | 0.000 | Fixed | |
| 5 | 1005 | p19 c | Lat. 33° 18′ 13.07845″ N | 0.000 | Fixed | Adjusted |
| | | | Lon. 111° 54′ 55.56710″ W | 0.000 | Fixed | |
| | | | Elv. 358.420 | 0.216 | | |
| 6 | 0029 | | Lat. 33° 21′ 22.31737″ N | 0.000 | Fixed | Adjusted |
| | | | Lon. 111° 53′ 45.06677″ W | 0.000 | Fixed | |
| | | | Elv. 362.412 | 0.000 | Fixed | |
| 7 | 0053 | | Lat. 33° 17′ 53.67673″ N | 0.023 | | Adjusted |
| | | | Lon. 111° 58′ 22.27582″ W | 0.015 | | |
| | | | Elv. 357.599 | 0.244 | | |

| | Site ID | Site Name | Elevation Factor |
|---|---|---|---|
| 1 | 1002 | cot3 | 0.99994755 |
| 2 | 1006 | | 0.99994807 |
| 3 | 0056 | | 0.99994937 |
| 4 | 0057 | | 0.99994355 |
| 5 | 1005 | p19 c | 0.99994851 |
| 6 | 0029 | | 0.99994788 |
| 7 | 0053 | | 0.99994865 |

# The NGS Data Sheet

```
DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 6.11
Starting Datasheet Retrieval...
1        National Geodetic Survey,   Retrieval Date = MARCH 22, 2000
 AI1918 ***********************************************************************
 AI1918  DESIGNATION -  COT3
 AI1918  PID         -  AI1918
 AI1918  STATE/COUNTY-  AZ/MARICOPA
 AI1918  USGS QUAD   -  GUADALUPE (1991)
 AI1918
 AI1918                        *CURRENT SURVEY CONTROL
 AI1918  ______________________________________________________________________
 AI1918* NAD 83(1992)-  33 19 38.58936(N)    111 57 15.80151(W)     ADJUSTED
 AI1918* NAVD 88     -       365.0    (meters)    1198.     (feet)  GPS OBS
 AI1918  ______________________________________________________________________
 AI1918  X           -  -1,994,547.617 (meters)                     COMP
 AI1918  Y           -  -4,948,015.484 (meters)                     COMP
 AI1918  Z           -   3,484,537.902 (meters)                     COMP
 AI1918  LAPLACE CORR-          -1.01  (seconds)                    DEFLEC99
 AI1918  ELLIP HEIGHT-         335.27  (meters)                     GPS OBS
 AI1918  GEOID HEIGHT-         -29.73  (meters)                     GEOID99
 AI1918
 AI1918  HORZ ORDER  -  A
 AI1918  ELLP ORDER  -  FIRST     CLASS I
 AI1918
 AI1918.The horizontal coordinates were established by GPS observations
 AI1918.and adjusted by the National Geodetic Survey in September 1999.
 AI1918
 AI1918.The orthometric height was determined by GPS observations.
 AI1918
 AI1918.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AI1918
 AI1918.The Laplace correction was computed from DEFLEC99 derived deflections.
 AI1918
 AI1918.The ellipsoidal height was determined by GPS observations
 AI1918.and is referenced to NAD 83.
 AI1918
 AI1918.The geoid height was determined by GEOID99.
 AI1918
 AI1918;                    North         East     Units   Scale      Converg.
 AI1918;SPC AZ C     -   258,058.061   209,848.126   MT  0.99990015 -0 01 14.6
 AI1918;UTM  12      - 3,687,988.418   411,174.008   MT  0.99969728 -0 31 27.8
 AI1918
 AI1918                          SUPERSEDED SURVEY CONTROL
 AI1918
 AI1918.No superseded survey control is available for this station.
 AI1918
 AI1918_MARKER: DD = SURVEY DISK
 AI1918_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 AI1918_STAMPING: COT3
 AI1918_MAGNETIC: N = NO MAGNETIC MATERIAL
 AI1918_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 AI1918+STABILITY: SURFACE MOTION
 AI1918_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AI1918+SATELLITE: SATELLITE OBSERVATIONS - February 12, 1999
 AI1918
 AI1918  HISTORY     - Date     Condition        Recov. By
 AI1918  HISTORY     - UNK      MONUMENTED       AZ0490
 AI1918  HISTORY     - 19990212 GOOD             AZ0420
 AI1918
 AI1918                          STATION DESCRIPTION
 AI1918
 AI1918'DESCRIBED BY CITY OF SCOTTSDALE ARIZONA 1999 (DLE)
```

```
AI1918'THE STATION IS LOCATED ABOUT 7 MI (11.3 KM) SOUTH-SOUTHWEST OF THE
AI1918'CENTER OF TEMPE, IN THE CENTER OF THE CUL-DE-SAC ON HARDY ROAD.
AI1918'OWNERSHIP--CITY OF TEMPE.  TO REACH THE STATION FROM THE INTERSECTION
AI1918'OF MILL AVENUE AND 5TH STREET IN TEMPE, GO SOUTH FOR 3.5 MI (5.6 KM)
AI1918'ON MILL AVENUE TO BASELINE ROAD.  TURN RIGHT AND GO WEST FOR 0.5 MI
AI1918'(0.8 KM) ON BASELINE ROAD TO KYRENE ROAD.  TURN LEFT AND GO SOUTH FOR
AI1918'3.0 MI (4.8 KM) ON KYRENE ROAD TO WARNER ROAD.  TURN RIGHT AND GO WEST
AI1918'FOR 0.5 MI (0.8 KM) ON WARNER ROAD TO HARDY ROAD.  TURN LEFT AND GO
AI1918'SOUTH FOR 0.5 MI (0.8 KM) ON HARDY ROAD TO THE STATION.  THE STATION
AI1918'IS FLUSH WITH GROUND AT THE CENTER OF THE CUL-DE-SAC. LOCATED 60.63 FT
AI1918'(18.48 M) SOUTHEAST FROM A LIGHT POLE, 59.71 FT (18.20 M) WEST FROM A
AI1918'FIRE HYDRANT, 57.7 FT (17.6 M) NORTH FROM A SEWER MANHOLE, 49.4 FT
AI1918'(15.1 M) SOUTH FROM A SEWER MANHOLE AND 43.32 FT (13.20 M) EAST FROM
AI1918'THE CURB OF HARDY ROAD.
Elapsed Time = 00:00:06
```

BASE #/002

SCALE 1.000068

ROT. 0.011550

BASE N 846780.0760

688586.168

A 0.0000023425

B -0.0000021275

C 39.030001893

LAT 33.193858948

LONG 111.571621164

ELEV HT. 1156.840

LOCAL PTS

57

1029

56

53

1005

BASE @ # 500 4.91 SLANT HT

LOCALIZED {500, 1029, 1003, 1004, 1001, 57}

RESIDUALS NORTH: 0.0312

EAST: 0.0325

ELEV: 0.0391

SCALE: 1.000082

ROTATION: 0.0038

BASE N: 860570.5840

BASE E: 694168.6289

- VERTICAL -

a: -0.000032302

b: -0.000058971

c: -261.02808057

LAT: 33.215380236 N

LONG: 111.560754716 W

ELLIP HT: 1460.238 FT

Stanley Consultants INC.

Project No. _____ Page No. B. ROBERSON

Subject WESTERN HIGHLINE P.A. HUNSON

BENCH LOOP

Computed by _____ Date _____

Checked by _____ Date _____

Approved by _____ Date _____

Sheet No. 2 of 2

| DESC | + | HI | − | ELEV | |
|---|---|---|---|---|---|
| | 6.51 | 92.91 | | | |
| TP#6 | | | 2.71 | 90.20 | |
| | 4.30 | 94.50 | | | |
| TP#21 | | | 6.38 | 88.12 | |
| | 6.22 | 94.34 | | | |
| TP#5 | | | 6.22 | 88.12 | |
| | 6.53 | 94.65 | | | |
| TP#4 | | | 6.24 | 88.41 | |
| | 7.05 | 95.46 | | | |
| TP#3 | | | 3.63 | 91.83 | |
| | 2.68 | 94.51 | | | |
| TP#2 | | | 4.62 | 89.89 | |
| | 5.99 | 95.88 | | | |
| TP#1 | | | 4.90 | 90.98 | |
| | 6.28 | 97.26 | | | |
| PP#29 | | | 8.29 | 88.97 | (1189.02) |

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
21780
CLYDE J.
McCARTY
Date Signed 10/9/00
ARIZONA, U.S.A.

SC 3004R4 898

Stanley Consultants INC.

Project No. _____ Page No. B. ROSSELLI

Subject WESTERN HIGHLINE D A HANSON BENCH LOOP

Computed by _____ Date _____

Checked by _____ Date _____

Approved by _____ Date _____

Sheet No. 1 of 2

| DESC | + | HI | − | ELEV. | DESC. | + | HI | − | ELEV. |
|---|---|---|---|---|---|---|---|---|---|
| PP 29 GPS ELEV. | | | | 1189.02 | | 5.42 | 86.86 | | |
| | 8.58 | 97.60 | | | TP# 17 | | | 4.61 | 82.25 |
| TP#1 | | | 6.58 | 91.02 | | 5.71 | 87.96 | | |
| | 4.89 | 95.91 | | | TP#18 | | | 4.60 | 83.36 |
| TP#2 | | | 5.97 | 89.94 | | 5.62 | 88.98 | | |
| | 4.67 | 94.61 | | | TP#19 | | | 5.02 | 83.96 |
| TP#3 | | | 2.73 | 91.88 | | 3.57 | 88.53 | | |
| | 3.66 | 95.54 | | | PP#20 | | | 5.61 | 81.92 |
| TP#4 | | | 7.06 | 88.48 | | | | | |
| | 6.52 | 95.00 | | | | 5.53 | 87.45 | | |
| TP#5 | | | 6.81 | 88.19 | TP# 19 | | | 3.48 | 83.97 |
| | 6.24 | 94.43 | | | | 4.91 | 88.88 | | |
| TP#6 | | | 4.17 | 90.26 | TP#18 | | | 5.52 | 83.36 |
| | 3.45 | 93.71 | | | | 4.76 | 88.12 | | |
| TP#7 | | | 7.27 | 86.44 | TP# 17 | | | 5.87 | 82.25 |
| | 7.19 | 93.63 | | | | 5.20 | 87.45 | | |
| TP# 8 | | | 7.90 | 85.73 | TP# 20 | | | 5.95 | 81.50 |
| | 7.55 | 93.28 | | | | 5.16 | 86.66 | | |
| TP#9 | | | 4.09 | 89.19 | TP# 15 | | | 6.08 | 80.58 |
| | 3.83 | 93.02 | | | | 4.61 | 85.19 | | |
| TP# 10 | | | 5.01 | 88.01 | TP# 14 | | | 4.98 | 80.21 |
| | 4.60 | 92.61 | | | | 5.20 | 85.41 | | |
| TP#11 | | | 4.59 | 88.02 | TP# 13 | | | 4.65 | 80.76 |
| | 5.62 | 93.64 | | | | 12.73 | 93.49 | | |
| TP# 12 | | | 5.21 | 88.43 | TP# 12 | | | 5.08 | 88.41 |
| | 4.76 | 93.19 | | | | 5.10 | 93.51 | | |
| TP#13 | | | 12.41 | 80.78 | TP# 11 | | | 5.51 | 88.00 |
| | 4.99 | 85.77 | | | | 4.82 | 92.82 | | |
| PP#26 | | | 5.13 | 80.64 | TP# 10 | | | 4.82 | 88.00 |
| | 5.07 | 80.71 | | | | 4.81 | 92.81 | | |
| TP#14 | | | 5.49 | 80.22 | TP# 9 | | | 3.66 | 89.15 |
| | 4.91 | 85.13 | | | | 3.78 | 92.93 | | |
| TP#15 | | | 4.53 | 80.60 | TP# 8 | | | 7.23 | 85.70 |
| | 5.90 | 86.50 | | | | 7.75 | 93.45 | | |
| TP#16 | | | 5.06 | 81.44 | TP# 7 | | | 7.05 | 86.40 |

SC 3004R4 898

Projects (continued) .....

Book 644 ①

WESTERN HIGHLINE CANAL

LEVELS

3-22-00

JF

JF

NAI 506076

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
21780
CLYDE J.
McCARTY
Date Signed 3/9/
ARIZONA, U.S.A.

| | | | | |
|---|---|---|---|---|
| BM "SGT38" | | | | 1169.95 |
| | 4.60 | 1174.55 | | |
| | | | 6.80 | 1167.75 |
| | 4.55 | 1172.30 | | |
| PANEL # 4 | | | 3.86 | 1168.44 |
| | 4.00 | 1172.44 | | |
| | | | 4.80 | 1167.64 |
| | 5.78 | 1173.42 | | |
| | | | 4.97 | 1168.45 |
| | 5.70 | 1174.15 | | |
| | | | 4.58 | 1169.57 |
| | 5.85 | 1175.42 | | |
| | | | 3.80 | 1171.62 |
| | 5.51 | 1177.13 | | |
| PANEL # 10 | | | 4.11 | 1173.02 |
| | 4.25 | 1177.27 | | |
| | | | 5.66 | 1171.61 |
| | 3.88 | 1175.49 | | |
| | | | 5.92 | 1169.57 |
| | 4.62 | 1174.19 | | |
| | | | 5.74 | 1168.45 |
| | 5.04 | 1173.49 | | |
| | | | 5.86 | 1167.63 |
| | 4.72 | 1172.35 | | |
| | | | 4.62 | 1167.73 |
| | 6.82 | 1174.55 | 4.62 | 1169.93 (-0.02) |

BM

(2)

SGT38 SRVWWA BC @ NW COR IRR BOX, E. SIDE RD N. SIDE STRUT

SRVWWA BM SGT38

PK FLUSH

PK FLUSH

| | | | | |
|---|---|---|---|---|
| | | | | 1173.02 (OB/AD) |
| TBM (PANEL #10) | 5.95 | 1178.97 | | |
| | | | 4.33 | 1174.64 |
| | 6.13 | 1180.77 | | |
| | | | 4.19 | 1176.58 |
| | 8.46 | 1184.98 | | |
| | | | 4.45 | 1180.53 |
| | 7.02 | 1187.55 | | |
| | | | 4.56 | 1182.99 |
| | 5.65 | 1188.64 | | |
| | | | 5.63 | 1183.01 |
| | 5.57 | 1188.58 | | |
| | | | 5.62 | 1182.96 |
| | 5.22 | 1188.18 | | |
| | | | 4.86 | 1183.32 |
| | 5.11 | 1188.43 | | |
| | | | 5.32 | 1183.11 |
| | 5.68 | 1188.77 | | |
| TBM @ Guadalupe | | | 3.64 | 1185.15 (1185.18 AD) |
| | 3.47 | 1188.62 | | |
| | | | 5.51 | 1183.11 |
| | 5.25 | 1188.36 | | |
| | | | 5.04 | 1183.32 |
| | 4.84 | 1188.16 | | |
| | | | 5.21 | 1182.95 |

PK FLUSH ± KYRENE, N. OF C-LINE

PK @ LIP 1' PUMPT ON N SIDE OF GUADALUPE, E OF CANAL

1182.95 p.3

| | | | |
|---|---|---|---|
| 5.65 | 1188.60 | | |
| | | 5.61 | 1182.99 |
| 5.73 | 1188.72 | | |
| | | 5.77 | 1182.95 |
| 4.56 | 1187.51 | | |
| | | 7.03 | 1180.48 |
| 4.77 | 1185.25 | | |
| | | 8.71 | 1176.54 |
| 3.63 | 1180.17 | | |
| | | 5.57 | 1174.60 |
| 4.09 | 1178.69 | | |
| | | 5.71 | 1172.98 |
| | | | (-0.04) |

TBM
PANEL #10

| | | | |
|---|---|---|---|
| BM | | | 1185.15 |
| 4.51 | 1189.66 | | |
| | | 5.77 | 1183.89 |
| 4.00 | 1187.89 | | |
| | | 6.04 | 1181.85 |
| PANEL #20 | | | |
| 5.92 | 1187.77 | | |
| | | 3.87 | 1183.90 |
| 5.60 | 1189.50 | | |
| | | 4.35 | 1185.15 |
| | | | (0.00) |

1185.18 ADJ

1181.88 ADJ

P.K. FLUSH

(1181.92) BRAD'S #20

| | | | | | |
|---|---|---|---|---|---|
| | | | | 1210.19 | BC FLUSH @ W. SIDE CHANDLER Bridge @ Fwy |
| BM "CHAN" | 2.16 | 1212.35 | | | |
| | | | 16.61 | 1195.74 | |
| | 0.52 | 1196.26 | | | |
| | | | 5.78 | 1190.48 | "X" CHISELED ON SW COR of STEEL P/P BASE (SKP BM MARKED 90.71.) SW COR CHANDLER BLVD. & FRWY |
| TBM PP BASE | 5.81 | 1196.29 | | | |
| | | | 0.56 | 1195.73 | |
| | 16.44 | 1212.17 | | | |
| | | | 1.99 | 1210.18 | |
| | | | | (-0.01) | |
| TBM PP BASE | | | | 1190.48 | CHISELED "+" @ PP BASE (FROM ABOVE) |
| | 2.26 | 1192.74 | | | |
| | | | 8.98 | 1183.76 | |
| | 3.84 | 1187.60 | | | |
| | | | 6.81 | 1180.79 | |
| | 2.35 | 1183.14 | | | |
| | | | 7.82 | 1175.32 | |
| | 4.66 | 1179.98 | | | |
| | | | PANEL | 6.91 | 1173.0 |
| #53 PANEL | | | REBAR | 6.84 | 1173.14 1/2" REBAR FLUSH-IN FARM FIELD, W. OF R.O.W. FACE |
| | 6.76 | 1179.90 | | | |
| | | | 4.62 | 1175.28 | |
| | 7.58 | 1182.86 | | | |
| | | | 2.07 | 1180.79 | |

| | | | | | |
|---|---|---|---|---|---|
| | | | | 1180.79 | p. 5 |
| | 7.03 | 1187.82 | | | |
| | | | 4.06 | 1183.76 | |
| | 9.05 | 1192.81 | | | SW COR |
| | | | 2.34 | 1190.47 | '+' @ PP BASE |
| TBM PP BASE | | | | (-0.01) | |