# BETHANY HOME OUTFALL CHANNEL

FCDMC CONTRACT NO. 98-46

## AERIAL MAPPING
## SURVEY CONTROL
## UTILITIES

**Prepared By:**
**Collins/Piña Consulting Engineers, Inc.**
**40 East Virginia Ave., Suite 200**
**Phoenix, AZ 85004**
**(602) 264-7505**
**(602) 264-0568 fax**
**CP#4144**

*Collins / Piña*
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# Bethany Home Outfall Project Controls
## August 20, 1999

Horizontal and Vertical Data (GRID)

1 Bethany Home Road and 75th Avenue, C/P Iron Rod 66 feet East of the Northeast corner of Section 14-T2N-R1E, Elevation = 1102.68 feet, X=607,453.0570, Y=918,160.3102

113 Camelback Road and 75th Avenue, Brass Cap in Hand Hole, Elevation = 1095.26 feet, X=607,386.8479, Y=912,856.8747

111 Camelback Road and 67th Avenue, Brass Cap in Hand Hole, Elevation = 1107.78 feet, X=612,678.6706, Y=912,974.5043

110 Camelback Road and 63rd Avenue, Brass Cap Flush, Elevation = 1114.01 feet, X=615,148.7107, Y=913,005.5601

109 Camelback Road and 59th Avenue, Brass Cap in Hand Hole, Elevation = 1120.87 feet, X=617,800.4127, Y=913,038.7559

12 Grand Canal and 63rd Avenue, C/P Iron Rod, Elevation = 1098.13 feet, X=615,122.3122, Y=906,452.9689

10 Grand Canal bridge at 67th Avenue, Cut Cross in bridge sidewalk on East side of 67th Avenue, Elevation = 1099.39 feet, X=612,688.1518, Y=909,178.6198

107 Missouri Avenue and 63rd Avenue, Brass Cap Flush, Elevation = 1120.44 feet, X=615,161.31, Y=915,643.20

106 Missouri Avenue and 67th Avenue, Brass Cap in Hand Hole, Elevation = 1115.44 feet, X=612,696.0587, Y=915,610.8754

108 Missouri Avenue and 59th Avenue, Stone in Hand Hole, Elevation = 1127.75 feet, X=617,820.9190, Y=915,678.3764

104 Missouri Avenue and 75th Avenue, Brass Cap in Hand Hole, Elevation = 1098.46 feet, X=607,391.97120, Y=915,491.2852

4 Missouri Avenue and 79th Avenue, Brass Cap in Hand Hole, Elevation = 1091.01, X=605,046.0701, Y=915,597.9529

29 East of Bethany Home Road and 99th Avenue, C/P Iron Rod, Elevation = 1059.19 feet, X=591,635.2397, Y=917,921.0185

3 East of Bethany Home Road and 83rd Avenue, C/P Iron Rod, Elevation = 1089.09 feet, X=602,744.5224, Y=918,076.7215

30 Missouri Avenue and 95th Avenue, C/P Iron Rod, Elevation = 1056.37 feet, X=594,185.4678, Y=917,064.2386

27 Grand Canal, 52' East of the Northwest corner of Section 16-T2N-R1E, Elevation = 1068.07 feet, X=596,930.7736, Y=918,094.5370

114 Camelback Road and 79th Avenue, Brass Cap and Hand Hole, Elevation = 1084.48 feet, X=604,767.2769, Y=912,828.8726

8 Grand Canal, C/P Iron Rod at the Center of Section 24-T2N-R1E, Elevation = 1097.99 feet, X=610,066.5345, Y=910,339.2925

32 87th Avenue, C/P Iron Rod on dirt road 1,200 feet South of North ¼ corner of Section 15-T2N-R1E, Elevation = 1071.09 feet, X=599,506.3539, Y=917,437.0046

Vertical Data ONLY

Maryland Avenue and 91st Avenue, Brass Cap in Hand Hole, Elevation = 1072.39 feet

Maryland Avenue and 83rd Avenue, Brass Cap in Hand Hole, Elevation = 1088.72 feet

Osborn Road and 67th Avenue, Brass Cap in Hand Hole, Elevation = 1084.26 feet

Sells Drive and 75th Avenue, Brass Cap in Hand Hole, Elevation = 1087.08 feet

Report Nodes (Ground)

| Node ID | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 1 | 918308.35197 | 607549.11654 | -0.57944 | CP 1/2 IR |
| 2 | 918251.95860 | 604883.06540 | -0.72537 | N 1/4 COR SE |
| 3 | 918224.76325 | 602840.58189 | 1089.08610 | CP 1/2 IR |
| 4 | 915745.99471 | 605142.12963 | 1091.01220 | CP 1/2 IR |
| 5 | 914164.84930 | 606600.58307 | 1092.92060 | CP 1/2 IR |
| 6 | 912964.01588 | 607603.75357 | 1096.18440 | CP 1/2 IR |
| 7 | 911401.36064 | 609041.02621 | 1096.80990 | CP 1/2 IR |
| 8 | 910487.33431 | 610162.59395 | 1097.98920 | CP 1/2 IR |
| 9 | 909870.51627 | 611926.44725 | 1099.06870 | CP 1/2 IR |
| 10 | 909326.66156 | 612784.21131 | 1099.39490 | CP 1/2 IR |
| 11 | 907806.53780 | 614009.39650 | 1098.77510 | CP 1/2 IR |
| 12 | 906601.01080 | 615218.37150 | 1098.12820 | CP 1/2 IR |
| 13 | 907926.65880 | 615233.98550 | 0.14263 | X ON CONCRET |
| 14 | 918456.39400 | 607645.13500 | 1101.95500 | IRON ROD |
| 15 | 911653.73745 | 615258.21753 | 0.42770 | X ON CONCRET |
| 16 | 913107.28211 | 615214.72649 | 1113.12960 | X ON CONCRET |
| 17 | 913255.58662 | 617853.65703 | 1121.08480 | X ON CONCRET |
| 18 | 914554.00370 | 617943.24806 | 1124.75300 | X ON CONCRET |
| 19 | 915795.02815 | 617856.54449 | 1128.37630 | X ON CONCRET |
| 20 | 915766.59311 | 615358.84826 | 1120.76370 | X ON CONCRET |
| 21 | 915778.33865 | 612710.45075 | 1114.60250 | CP 1/2 IR |
| 22 | 915665.25393 | 609671.13229 | 1105.40960 | PK IN A/C |
| 23 | 915678.47968 | 607449.96157 | 1098.63500 | X IN CONCRET |
| 24 | 913158.84815 | 612693.10351 | 1107.93230 | X ON CONCRET |
| 25 | 913100.16930 | 610051.73374 | 1100.68420 | X ON CONCRET |
| 26 | 918220.32501 | 599625.92882 | 1073.66190 | CP 1/2 IR |
| 27 | 918242.57883 | 597026.83308 | -0.28904 | CP 1/2 IR |
| 28 | 918208.56792 | 594235.57939 | 1059.65170 | CP 1/2 IR |
| 29 | 918069.06026 | 591731.29924 | 1059.18560 | CP 1/2 IR |
| 30 | 917212.28041 | 594281.52734 | 1056.37000 | CP 1/2 IR |
| 31 | 918242.57878 | 597026.84950 | 0.32492 | CP 1/2 IR |
| 32 | 917585.04638 | 599602.41344 | 1071.08640 | CP 1/2 IR |
| 33 | 918224.76325 | 602840.58189 | 0.69350 | CP 1/2 IR |
| 34 | 918308.34980 | 607549.12245 | 1.38614 | CP 1 |
| 35 | 918251.95860 | 604883.06540 | 1.53206 | CP 2 |
| 36 | 912964.01590 | 607603.75360 | 0.86824 | X ON CONCRET |
| 37 | 918155.33080 | 591686.44550 | -0.72537 | North Cnal R |
| 38 | 918156.62508 | 591713.00398 | -0.72537 | North Canal |
| 38 | 918156.62508 | 591713.00398 | -0.72537 | Node Descrip |
| 39 | 918303.64180 | 594328.25450 | -0.72537 | North Canal |
| 40 | 918320.79280 | 596864.16650 | -0.72537 | North Canal |
| 41 | 918321.35173 | 596975.77159 | -0.72537 | North Canal |
| 42 | 918307.00780 | 596975.75450 | -0.72537 | North Canal |
| 43 | 918297.81558 | 599620.19753 | -0.72537 | North Canal |
| 44 | 918304.21080 | 599620.21850 | -0.72537 | North Canal |
| 45 | 918296.67080 | 602274.19850 | -0.72537 | North Canal |

Report Nodes (Ground)

| Node ID | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 46 | 918286.16180 | 602274.21250 | -0.72537 | North Canal |
| 47 | 918287.12280 | 602608.06150 | -0.72537 | North Canal |
| 48 | 918273.34580 | 602766.34350 | -0.72537 | North Canal |
| 49 | 918235.92680 | 602874.71850 | -0.72537 | North Canal |
| 50 | 916047.83380 | 604874.82150 | -0.72537 | North Canal |
| 51 | 915618.60380 | 605272.18850 | -0.72537 | North Canal |
| 52 | 915618.71180 | 605283.77750 | -0.72537 | North Canal |
| 53 | 913213.16680 | 607482.50250 | -0.72537 | Northeast Ca |
| 54 | 913009.81380 | 607705.94550 | -0.72537 | Northeast Ca |
| 55 | 912075.34880 | 608563.15050 | -0.72537 | Northeast Ca |
| 56 | 911397.70462 | 609184.76818 | -0.72537 | Northeast Ca |
| 57 | 911041.26680 | 609514.69750 | -0.72537 | Northeast Ca |
| 58 | 910649.24080 | 610115.44050 | -0.72537 | Northeast Ca |
| 59 | 910571.45780 | 610234.63650 | -0.72537 | Northeast Ca |
| 60 | 910444.23380 | 610524.02650 | -0.72537 | Northeast Ca |
| 61 | 910324.13780 | 610797.20150 | -0.72537 | Northeast Ca |
| 62 | 909946.75754 | 612018.68371 | -0.72537 | Northeast Ca |
| 63 | 909786.85980 | 612296.78250 | -0.72537 | Northeast Ca |
| 64 | 909437.01098 | 612749.90081 | -0.72537 | Northeast Ca |
| 65 | 909262.17480 | 612748.68850 | -0.72537 | Southwest Ca |
| 66 | 909506.01880 | 612432.98350 | -0.72537 | Southwest Ca |
| 67 | 909842.81180 | 611849.01250 | -0.72537 | Southwest Ca |
| 68 | 910184.25780 | 610744.93650 | -0.72537 | Southwest Ca |
| 69 | 910415.18280 | 610219.83050 | -0.72537 | Southwest Ca |
| 70 | 910438.67059 | 610183.64721 | -0.72537 | Southwest Ca |
| 71 | 910483.55280 | 610114.50550 | -0.72537 | Southwest Ca |
| 72 | 910529.76980 | 610064.77650 | -0.72537 | Southwest Ca |
| 73 | 910954.07795 | 609409.21679 | -0.72537 | Southwest Ca |
| 74 | 911332.32280 | 609061.77450 | -0.72537 | Southwest Ca |
| 75 | 913005.87580 | 607526.58850 | -0.72537 | Southwest Ca |
| 76 | 913057.89680 | 607482.80450 | -0.72537 | Southwest Ca |
| 77 | 914855.29778 | 605839.93718 | -0.72537 | Southwest Ca |
| 78 | 915621.83328 | 605139.30547 | -0.72537 | Southwest Ca |
| 79 | 915625.35460 | 605132.90866 | -0.72537 | Southwest Ca |
| 80 | 915893.48480 | 604874.24450 | -0.72537 | Southwest Ca |
| 81 | 915968.31980 | 604802.05350 | -0.72537 | Southwest Ca |
| 82 | 916746.32180 | 604096.92750 | -0.72537 | Southwest Ca |
| 83 | 917228.33308 | 603660.06628 | -0.72537 | Southwest Ca |
| 84 | 917997.85463 | 602962.62619 | -0.72537 | Southwest Ca |
| 85 | 918181.34280 | 602764.12750 | -0.72537 | Southwest Ca |
| 86 | 918187.26880 | 602274.24350 | -0.72537 | South Canal |
| 87 | 918194.56080 | 602274.28950 | -0.72537 | South Canal |
| 88 | 918202.14380 | 599605.12350 | -0.72537 | South Canal |
| 89 | 918206.77180 | 599605.14050 | -0.72537 | South Canal |
| 90 | 918216.30680 | 596975.80850 | -0.72537 | South Canal |
| 91 | 918212.47380 | 596975.82150 | -0.72537 | South Canal |

Report Nodes (Ground)

| Node ID | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 93 | 918187.09278 | 594329.18320 | -0.72537 | South Canal |
| 94 | 918199.18180 | 594255.94750 | -0.72537 | South Canal |
| 95 | 918124.39640 | 593008.60774 | -0.72537 | South Canal |
| 96 | 918046.26480 | 591686.57450 | -0.72537 | South Canal |
| 97 | 907850.37180 | 614101.07950 | -0.72537 | Northeast Ca |
| 98 | 907666.46780 | 614317.70350 | -0.72537 | Northeast Ca |
| 99 | 907553.17080 | 614416.12950 | -0.72537 | Northeast Ca |
| 100 | 918272.59987 | 607493.34379 | -0.58554 | NE COR SEC 1 |
| 101 | 918231.17110 | 602274.28991 | 1083.76000 | NW COR SEC 1 |
| 102 | 918250.30811 | 596975.68883 | -0.28899 | NE COR SEC 1 |
| 103 | 918084.32698 | 591686.36702 | 1060.38000 | NW COR SEC 1 |
| 104 | 915639.32699 | 607488.03149 | 1098.46000 | E 1/4 COR SE |
| 105 | 907047.33580 | 614792.26250 | -0.72537 | Northeast Ca |
| 106 | 915758.91716 | 612792.11817 | 1115.44000 | E 1/4 COR SE |
| 107 | 906907.50998 | 614935.94502 | 0.00000 | Northeast Ca |
| 108 | 915826.41841 | 617916.97805 | 1127.75000 | E 1/4 COR SE |
| 109 | 913186.79788 | 617896.47167 | 1120.87000 | SE COR SEC 1 |
| 110 | 913153.60206 | 615244.76970 | 1114.00600 | S 1/4 COR SE |
| 111 | 913122.54626 | 612774.72963 | 1107.79000 | SE COR SEC 1 |
| 112 | 913063.01606 | 610129.06634 | 1.47040 | S 1/4 COR SE |
| 113 | 913004.91673 | 607482.90694 | 0.46594 | SW COR SEC 1 |
| 114 | 912976.91455 | 604863.33594 | 0.61972 | S 1/4 COR SE |
| 115 | 909125.80541 | 610106.84337 | 0.63917 | 1/16 SEC 24 |
| 116 | 909153.24816 | 612747.93338 | 0.69453 | 1/16 SEC 24 |
| 117 | 910476.38553 | 612757.13739 | 0.72103 | W 1/4 COR SE |
| 118 | 910628.96379 | 612758.16394 | 0.72871 | E 1/4 COR SE |
| 119 | 907830.62198 | 612739.08402 | 0.80500 | SW COR SEC 1 |
| 120 | 907866.47198 | 615211.25202 | 0.80200 | S 1/4 COR SE |
| 121 | 905229.69429 | 615210.35709 | 0.87052 | C 1/4 SEC 30 |
| 122 | 913231.80110 | 607433.27915 | 0.44746 | TRI-STATION |
| 123 | 906907.57498 | 614895.82502 | 0.00000 | Northeast Ca |
| 124 | 906783.77598 | 615031.88202 | 0.00000 | Northeast Ca |
| 125 | 906691.41198 | 615210.85302 | 0.00000 | Northeast Ca |
| 126 | 906569.72198 | 615210.81202 | 0.00000 | Southwest Ca |
| 127 | 906681.69798 | 615010.80102 | 0.00000 | Southwest Ca |
| 128 | 908019.20998 | 615856.87602 | 0.00000 | RP Southwest |
| 129 | 907055.44898 | 614601.50902 | 0.00000 | Southwest Ca |
| 130 | 907447.51798 | 614300.51302 | 0.00000 | Southwest Ca |
| 131 | 906639.20498 | 613247.62802 | 0.00000 | RP Southwest |
| 132 | 907623.17798 | 614138.54602 | 0.00000 | Southwest Ca |
| 133 | 907783.32298 | 613961.67402 | 0.00000 | Southwest Ca |
| 134 | 907847.34998 | 613892.66102 | 0.00000 | Southwest Ca |
| 135 | 909406.22198 | 612749.68702 | 0.00000 | NORTH CANAL |
| 136 | 909350.22098 | 612814.45302 | 0.00000 | NORTH CANAL |
| 137 | 909379.83985 | 612814.65808 | 0.00000 | nORTH cANAL |
| 138 | 909320.77243 | 612881.37862 | 0.00000 | nORTH cANAL |

Report Nodes (Ground)

| Node ID | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 139 | 909228.61798 | 612962.31402 | 0.00000 | nORTH cANAL |
| 140 | 908370.27272 | 613522.44405 | 0.00000 | North Canal |
| 141 | 908352.85998 | 613537.37802 | 0.00000 | North Canal |
| 142 | 908352.44294 | 613508.43627 | 0.00000 | North Canal |
| 143 | 908213.16998 | 613627.89902 | 0.00000 | North Canal |
| 144 | 907991.49773 | 613899.78510 | 0.00000 | North Canal |
| 145 | 907849.72298 | 614056.24602 | 0.00000 | North Canal |
| 146 | 907847.73904 | 613919.51960 | 0.00000 | South Canal |
| 147 | 907911.63998 | 613843.20702 | 0.00000 | South Canal |
| 148 | 908199.70198 | 613499.19402 | 0.00000 | South Canal |
| 149 | 908732.53698 | 613145.21202 | 0.00000 | South Canal |
| 150 | 909146.31998 | 612897.09702 | 0.00000 | South Canal |
| 151 | 909262.19098 | 612781.68902 | 0.00000 | South Canal |
| 152 | 909295.03828 | 612748.97243 | 0.00000 | South Canal |
| 200 | 916017.78851 | 605050.42954 | 1089.99084 | BASE PT |
| 205 | 912414.73190 | 608234.02848 | 1094.56379 | 4OD NAIL |
| 300 | 912344.49681 | 608296.29837 | 1094.62994 | AP |
| 301 | 917808.59191 | 593000.59035 | 1057.37492 | AP |
| 302 | 917920.60261 | 595310.16254 | 1059.63059 | AP |
| 303 | 918748.29180 | 593003.64769 | 1061.07825 | AP |
| 304 | 918289.07709 | 594385.65835 | 1060.19487 | AP |
| 305 | 918639.51063 | 595046.90595 | 1061.32843 | AP |
| 306 | 918297.39436 | 595862.16658 | 1062.30754 | AP |
| 307 | 917862.71306 | 597012.93775 | 1065.30903 | AP |
| 308 | 917827.59882 | 599618.36331 | 1072.02785 | AP |
| 309 | 918203.18016 | 600347.29164 | 1076.03397 | AP |
| 310 | 918742.05911 | 596975.33806 | 1067.09262 | AP |
| 311 | 918624.27030 | 599194.05457 | 1071.74580 | AP |
| 312 | 918362.35825 | 598350.58001 | 1062.75827 | AP |
| 313 | 918309.86872 | 599558.34683 | 1071.88520 | AP |
| 314 | 918611.84970 | 600695.07026 | 1077.29914 | AP |
| 315 | 918230.86226 | 602273.98354 | 1083.82660 | AP |
| 316 | 917573.61791 | 602911.32713 | 1082.79315 | AP |
| 317 | 916721.32328 | 603881.83421 | 1087.04784 | AP |
| 318 | 914822.69805 | 605700.12450 | 1089.09782 | AP |
| 319 | 913191.33222 | 606756.76489 | 1090.19759 | AP |
| 320 | 918297.44852 | 602764.70511 | 1086.08947 | AP |
| 321 | 917057.23192 | 603967.18874 | 1087.94908 | AP |
| 322 | 917570.83750 | 603760.60654 | 1088.49507 | AP |
| 323 | 916683.56464 | 604609.73360 | 1088.97494 | AP |
| 325 | 915005.27210 | 605962.38210 | 1090.85799 | AP |
| 326 | 915486.37682 | 607119.93607 | 1095.47440 | AP |
| 327 | 915959.79096 | 607293.66766 | 1099.98464 | AP |
| 328 | 913879.69243 | 606891.09317 | 1090.45216 | AP |
| 329 | 915841.87474 | 605277.61107 | 1090.14230 | AP |
| 330 | 912865.55359 | 607771.97353 | 1097.56254 | AP |

Report Nodes (Ground)

| Node ID | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 331 | 911045.66048 | 609502.78271 | 1093.01900 | AP |
| 332 | 910017.33555 | 611792.68281 | 1093.76732 | AP |
| 333 | 908864.91957 | 613186.21971 | 1097.75966 | AP |
| 334 | 907202.31798 | 614645.67302 | 1097.27000 | AP |
| 335 | 907047.45998 | 615210.28602 | 1097.93600 | AP |
| 336 | 908231.40140 | 614421.29872 | 1098.63478 | AP |
| 337 | 908553.62971 | 613633.83636 | 1097.49167 | AP |
| 338 | 909446.39808 | 612998.24236 | 1096.36786 | AP TOP HH LI |
| 339 | 910129.52382 | 611906.11741 | 1094.56952 | AP |
| 340 | 910601.33658 | 610842.41175 | 1094.03576 | AP |
| 341 | 911619.78260 | 609259.85787 | 1093.65851 | AP |
| 342 | 911196.65928 | 609035.32596 | 1092.24133 | AP |
| 343 | 910003.68413 | 610861.10291 | 1092.70613 | AP |
| 344 | 909151.36453 | 612546.20158 | 1093.79875 | AP |
| 345 | 907539.39598 | 612842.79002 | 1091.29200 | AP |
| 346 | 907717.93498 | 613892.43002 | 1096.44400 | AP |
| 347 | 907138.18598 | 614373.27202 | 1094.99500 | AP |
| 348 | 913028.21415 | 608530.95005 | 1098.16930 | AP |
| 349 | 913066.24707 | 610284.17669 | 1101.46518 | AP |
| 350 | 913110.03411 | 612227.17254 | 1106.37010 | AP |
| 351 | 913145.96118 | 614634.82477 | 1112.39675 | AP |
| 352 | 913170.24310 | 616570.96482 | 1117.79926 | AP |
| 353 | 912863.17538 | 617894.23836 | 1119.48755 | AP |
| 354 | 912625.22229 | 615608.70864 | 1112.37397 | AP |
| 355 | 912831.57100 | 613488.31998 | 1107.40134 | AP |
| 356 | 912542.44003 | 611457.63718 | 1102.14398 | AP |
| 357 | 912758.62091 | 609487.10773 | 1096.88215 | AP |
| 358 | 913500.24835 | 607583.20615 | 1093.97080 | AP |
| 359 | 913316.70957 | 609394.86463 | 1100.24547 | AP |
| 360 | 913392.67815 | 611328.32792 | 1104.43546 | AP |
| 361 | 913442.81899 | 613411.92303 | 1109.41789 | AP |
| 362 | 913422.63038 | 615534.53534 | 1114.43801 | AP |
| 363 | 913503.03459 | 617901.42820 | 1122.20533 | AP |
| 364 | 917884.17378 | 601209.60239 | 1076.64893 | AP |
| 365 | 918239.49975 | 603346.50060 | 1087.14714 | AP |
| 366 | 915663.98769 | 607970.12208 | 1100.38372 | AP |
| 367 | 915702.31902 | 610279.55587 | 1107.55382 | AP |
| 368 | 915747.05813 | 612264.11894 | 1112.75512 | AP |
| 369 | 915784.42835 | 614742.65528 | 1119.46648 | AP |
| 370 | 915791.27951 | 615257.35490 | 1120.42675 | AP |
| 371 | 915814.86445 | 617058.57335 | 1125.55321 | AP |
| 372 | 915388.74335 | 617913.42483 | 1127.48333 | AP |
| 373 | 915349.50287 | 615948.80144 | 1121.10922 | AP |
| 374 | 915408.40186 | 613372.67351 | 1114.28466 | AP |
| 375 | 915445.76867 | 611469.47848 | 1110.53697 | AP |
| 376 | 915429.57102 | 609413.27654 | 1104.41609 | AP |

Report Nodes (Ground)

| Node ID | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 377 | 915226.60538 | 608812.71659 | 1102.64288 | AP |
| 378 | 915950.25146 | 609079.61493 | 1104.88435 | AP |
| 379 | 916116.26669 | 611033.73596 | 1109.72139 | AP |
| 380 | 916019.46342 | 613920.00729 | 1118.28803 | AP |
| 381 | 916327.00832 | 615506.87718 | 1122.41659 | AP |
| 382 | 916258.30281 | 617918.61823 | 1130.27919 | AP |
| 400 | 913255.63639 | 617853.68441 | 1121.14343 | CP 17 |
| 401 | 915795.06247 | 617856.50451 | 1128.37572 | CP 19 |
| 402 | 905229.70993 | 615210.51909 | 1091.42910 | PT 121 |
| 500 | 918336.95800 | 602756.10809 | 1085.82275 | TRI STATION |
| 501 | 918336.95601 | 602756.11062 | 1085.82041 | TRI STATION |
| 502 | 918336.96740 | 602756.10866 | 1085.80574 | TRI STATION |
| 503 | 913231.69365 | 607433.24888 | 1096.29556 | TRI STA BACK |
| 504 | 913231.68587 | 607433.24907 | 1096.32896 | TRI STA BACK |
| 505 | 913231.68856 | 607433.24471 | 1096.31632 | TRI STA BACK |
| 5300 | 918235.71223 | 602874.46458 | -2.85625 | 1 1/4IRONPI |
| 5301 | 918320.36725 | 596975.52099 | 1068.01896 | SET PK 5012 |
| 5302 | 918286.95914 | 602607.96030 | -4.85376 | FD 1/2RE BEN |
| 5303 | 918180.60058 | 602764.36382 | -1.32774 | FD ANGLIRON |
| 5304 | 917997.48192 | 602962.08240 | -3.62792 | FD 1/2RE BEN |
| 5305 | 918187.04968 | 602273.67310 | -5.05644 | FD CPS 86 |
| 5306 | 918194.31913 | 602273.69190 | -5.05187 | FD PK 87 |
| 5307 | 918320.30818 | 596975.56052 | 0.00000 | CALC 5012 |
| 5308 | 918212.48838 | 596975.75742 | 0.00000 | NEW VALUE 50 |
| 5309 | 918319.63558 | 596863.82252 | 0.00000 | CALC 5013 |
| 5310 | 918213.85387 | 596977.09678 | 1067.98194 | CALC 5012 |
| 5311 | 918319.67163 | 596863.74916 | 1064.79914 | CALC 5013 |
| 5312 | 918307.29318 | 596975.58432 | 0.00000 | CALC 5005 |
| 5313 | 918216.59318 | 596975.59712 | 0.00000 | DOT |
| 5314 | 918216.59318 | 596975.59712 | 0.00000 | CALC 5007 |
| 5315 | 918216.66053 | 596975.73317 | 1068.07183 | SET PK 5007 |
| 5316 | 918307.23744 | 596975.62759 | 1068.15237 | SET PK 5005 |
| 5317 | 918212.50999 | 596975.79490 | 1068.05985 | SET PK 5022 |
| 5318 | 918292.76926 | 602273.43051 | 1083.84209 | FD PK |
| 5319 | 918312.79046 | 602273.96460 | 1083.86987 | BC BETHANY |
| 5320 | 918194.11128 | 602273.57536 | 1083.91853 | FD PK |
| 5321 | 918186.87411 | 602273.65338 | 1084.10148 | FD COTTON SP |
| 5322 | 918286.91379 | 602607.92652 | 1084.09713 | FD 1/2REB 47 |
| 5323 | 918272.95382 | 602766.02175 | 1084.79772 | FD 1/2REB 48 |
| 5324 | 918235.75057 | 602874.47650 | 1086.13739 | FD 3/4IR 49 |
| 5325 | 918181.33717 | 602764.11721 | 1085.93031 | SET 1/2REB 8 |
| 5326 | 917997.58649 | 602962.15398 | 1085.37724 | FD 1/2REB 84 |
| 5327 | 917031.29938 | 603954.19868 | 1088.66123 | W/P |
| 5328 | 917227.99007 | 603659.75820 | 1085.80079 | FD SRP ALUM |
| 5329 | 916746.28360 | 604096.94696 | 1088.37669 | SET 1/2REB 8 |
| 5330 | 916482.58360 | 604461.34402 | 1089.29105 | SET NAIL W/P |

| Node ID | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 5331 | 916044.45774 | 604866.27769 | 1089.63412 | SET NAIL W/P |
| 5332 | 916047.23603 | 604874.88252 | 1089.68699 | FD SRP ACF 5 |
| 5333 | 915968.25467 | 604802.11716 | 1089.44032 | FD SRP ACF 8 |
| 5334 | 915893.26387 | 604874.35823 | 1089.92746 | FD IR 80 |
| 5335 | 915625.16138 | 605132.95138 | 1089.78434 | FD 1/2REB 79 |
| 5336 | 915621.53901 | 605139.01399 | 1089.90035 | FD SRP ACF 7 |
| 5337 | 915618.81166 | 605283.68088 | 1091.13564 | SET 1/2REB 5 |
| 5338 | 915618.63013 | 605272.15536 | 1091.53753 | SET 1/2REB 5 |
| 5339 | 914855.27088 | 605839.97879 | 1092.22006 | SET 1/2 IR 7 |
| 5340 | 913005.96428 | 607526.42633 | 1095.62080 | FD PK 75 |
| 5341 | 913009.82067 | 607706.04971 | 1096.12812 | SET PK 54 |
| 5342 | 913057.93237 | 607482.76076 | 1096.17724 | SET PK 76 |
| 5343 | 913213.21768 | 607482.47724 | 1096.58628 | SET PK 54 |
| 5344 | 911397.70785 | 609184.76502 | 1093.34410 | SET 1/2 IR 5 |
| 5345 | 911041.22444 | 609514.88720 | 1091.69933 | FD 3/4 IP 57 |
| 5346 | 912110.33905 | 608388.93371 | 1097.82667 | SET NAIL W/P |
| 5347 | 911332.11200 | 609061.85413 | 1094.18789 | FD SRP ACF 7 |
| 5348 | 910954.26107 | 609409.41939 | 1093.19787 | FD SRP ACF 7 |
| 5349 | 912075.36709 | 608563.04670 | 1095.74687 | SET 1/2 IR 5 |
| 5350 | 910415.06278 | 610219.92529 | 1094.31233 | FD SRP ACF 6 |
| 5351 | 910438.63376 | 610183.66327 | 1094.45231 | SET 1/2 IR 7 |
| 5352 | 910483.55027 | 610114.47324 | 1093.92154 | SET 1/2 IR 7 |
| 5353 | 910529.74988 | 610064.82116 | 1094.12796 | FD 1/2 IR 72 |
| 5354 | 910438.30542 | 610114.35783 | 1091.94538 | FD 1IN IR CE |
| 5355 | 910571.42491 | 610234.60932 | 1093.30626 | SET 1/2 IR 5 |
| 5356 | 910649.21398 | 610115.41756 | 1093.70201 | SET 1/2 IR 5 |
| 5357 | 910241.25208 | 610734.60280 | 1097.61332 | SET NAIL W/P |
| 5358 | 909636.64462 | 612326.29706 | 1098.52448 | SET NAIL W/P |
| 5359 | 909787.04564 | 612296.92907 | 1094.00085 | FD SRP ACF 6 |
| 5360 | 909946.79214 | 612018.72462 | 1093.81483 | SET 1/2 IR 6 |
| 5361 | 910184.24496 | 610744.93997 | 1093.71489 | SET 1/2 IR 6 |
| 5362 | 910324.08032 | 610797.15683 | 1093.25862 | SET 1/2 IR 6 |
| 5363 | 909405.88768 | 612749.82608 | 1099.02917 | FD CPS |
| 5364 | 909295.06067 | 612749.00823 | 1098.94833 | FD CPS |
| 5365 | 909262.17119 | 612748.68579 | 1098.84868 | SET PK 65 |
| 5366 | 909436.92162 | 612749.92994 | 1098.92613 | SET PK 64 |
| 5367 | 907847.36794 | 613892.61424 | 1098.71421 | FD BCF 134 |
| 5368 | 907850.39308 | 614101.12313 | 1098.46927 | FD CPS 97 |
| 5369 | 907850.02593 | 614079.99296 | 1098.51816 | FD CPS |
| 5370 | 907847.77764 | 613919.78658 | 1098.76633 | FD CPS |
| 5371 | 907783.12641 | 613961.61267 | 1097.51579 | FD SRP ACF 1 |
| 5372 | 907623.22202 | 614138.61746 | 1095.22285 | FD SRP ACF 1 |
| 5373 | 907659.08398 | 614311.29256 | 1095.39678 | FD SRP ACF 9 |
| 5374 | 907545.78258 | 614409.64656 | 1095.68865 | FD SRP ACF 9 |
| 5375 | 907180.83469 | 614636.88892 | 1098.32416 | SET NAIL W/P |
| 5376 | 907047.31114 | 614792.29124 | 1096.36621 | FD SRP ACF 1 |

(Ground)

| Node ID | Northing | Easting | Elevation | Description |
|---|---|---|---|---|
| 5377 | 906907.58243 | 614935.30791 | 1096.55293 | FD 1IN REB 1 |
| 5378 | 906907.57207 | 614895.82692 | 1097.84522 | FD 1/2 IR 12 |
| 5379 | 907447.26494 | 614300.60516 | 1096.01000 | FD SRP ACF 1 |
| 5380 | 907055.52821 | 614601.49607 | 1095.93000 | FD SRP ACF 1 |
| 5381 | 906720.18822 | 614988.05303 | 1097.44651 | SET NAIL W/P |
| 5382 | 906569.76548 | 615210.90557 | 1095.39673 | FD SRP ACF 1 |
| 5383 | 906783.87292 | 615031.81456 | 1098.66949 | FD 3/4 IR 12 |
| 5384 | 906691.39278 | 615211.01018 | 1098.88378 | FD SRP ACF 1 |
| 5385 | 908387.45280 | 613479.78725 | 1098.88010 | SET NAIL W/P |
| 5386 | 908332.64438 | 613520.41558 | 1098.72948 | SET NAIL W/P |
| 5387 | 909350.17762 | 612814.39865 | 1097.94734 | SET 1/2 IR 1 |
| 5388 | 909380.08443 | 612814.79942 | 1096.56089 | FD 1 1/2 IP |
| 5389 | 909325.14627 | 612877.79140 | 1096.65855 | FD SRP ACR 1 |
| 5390 | 909232.70045 | 612957.97837 | 1096.60748 | FD SRP ACR 1 |
| 5391 | 909146.06341 | 612897.25595 | 1098.10734 | FD SRP ACR 1 |
| 5392 | 908732.71466 | 613145.39505 | 1096.43019 | FD SRP ACR 1 |
| 5393 | 908352.91152 | 613537.42100 | 1097.12274 | SET 1/2 IR 1 |
| 5394 | 908357.11326 | 613525.61110 | 1097.01539 | FD SRP ACR 1 |
| 5395 | 908374.70330 | 613518.67640 | 1092.50278 | FD SRP ACR 1 |
| 5396 | 907911.60764 | 613843.48648 | 1097.69031 | FD 1/2 IR 14 |
| 5397 | 908202.63894 | 613497.83276 | 1095.77947 | FD 1/2 IR TR |
| 5398 | 908199.72125 | 613499.19705 | 1095.37734 | SET CHIS X 1 |
| 5399 | 908003.61587 | 613910.47502 | 1096.93812 | FD SRP ACF 1 |
| 5400 | 918084.32698 | 591686.36702 | 0.00000 | temp point |
| 5401 | 917936.28500 | 591590.30800 | 0.00000 | temp point |

SALT RIVER PROJECT / SURVEYS DEPARTMENT

PROJECT SYLLABUS FOR THE

NEW X-CUT AND GRAND CANAL PHASE

OF THE ELEVATION NETWORK SURVEYS

This report is a portion of a total scheme to establish a network of elevation benchmarks every 1/2 mile along the transmission canals in Maricopa County which are maintained by the Salt River Project. The scope includes verifying prior topographical surveys (called "spur ties") and re-surveying the reaches where a consistent elevation equation could not be realized or where new construction had rendered the prior surveys obsolete. Ultimately, this project will enable accurate hydrometric modeling and analysis of the entire canal system.

The sea level datum was based on elevations developed and supplied by the Arizona Department of Transportation (ADOT), Highway Division, Photogrammetry and Mapping Services, in a June 17, 1981 report entitled: "1981 NGS Level Line Apache Junction to I-10 at Miller Road. ADOT Preliminary Adjustment". The values given conform to the National Geodetic Vertical Datum of 1929 (NGVD 29).

All level circuits were surveyed with a set of matched invar rods which were observed by either a WILD model NA2 or NA2000 precise leveling instrument. All equipment and procedures conform to Second Order, Class Two (2nd/II) leveling performance standards as set forth by the Federal Geodetic Control Committee (FGCC).

The vertical control for this phase of the network established benchmarks along the canals in four inter-locking surveys:

1) Benchmarks from the Land Subsidence Monitoring Program completed during 1990 established control at the headgates of the New X-Cut Canal. During December of 1993, a circuit was run from the headgates, South along the New X-Cut Canal, continued West from the headwaters of the Grand Canal, deviated from the canal heading North along 16th Street, and closed at benchmarks near the intersection of 16th Street and Colter. The closing benchmarks were also a part of the 1990 control.

Field note observations for the New X-cut portion were recorded in a PARAVANT model electronic data collector by a software program called PCLEVEL.EXE, in a data file named GRAND.SRL. Field note observations for the Grand Canal portion were recorded in the data module supplied with the WILD NA2000 leveling instrument and the data files were later compiled into a computer file named GRAND.FBK. Printout copies of these files (GRAND.SRL and GRAND.FBK) are in the BM Field Notes section of this report.

X-CUT AND GRAND CANALS ELEVATION NETWORK

PROJECT SYLLABUS CONTINUED

2) The next circuit was continued West along the Grand Canal from the 16th Street Bridge to 43rd Avenue. This portion was also kept in the NA2000 module and compiled into GRAND.FBK.

3) During August of 1992, a level circuit was initiated to link the Arizona Canal elevation network with the Grand Canal. This circuit began at the bridge over the Arizona Canal from benchmarks documented in the 1991 Subsidence Report. The circuit ran East along the Arizona Canal to 43rd Avenue, South along 43rd Avenue to the Grand Canal, West along the Grand to 59th Avenue, North along 59th Avenue, and tied at benchmarks near at Olive Avenue which were also established in the 1991 surveys. The observations for this portion were recorded in field book 645 pages 32 through 80 and book 646 pages 1 through 39.

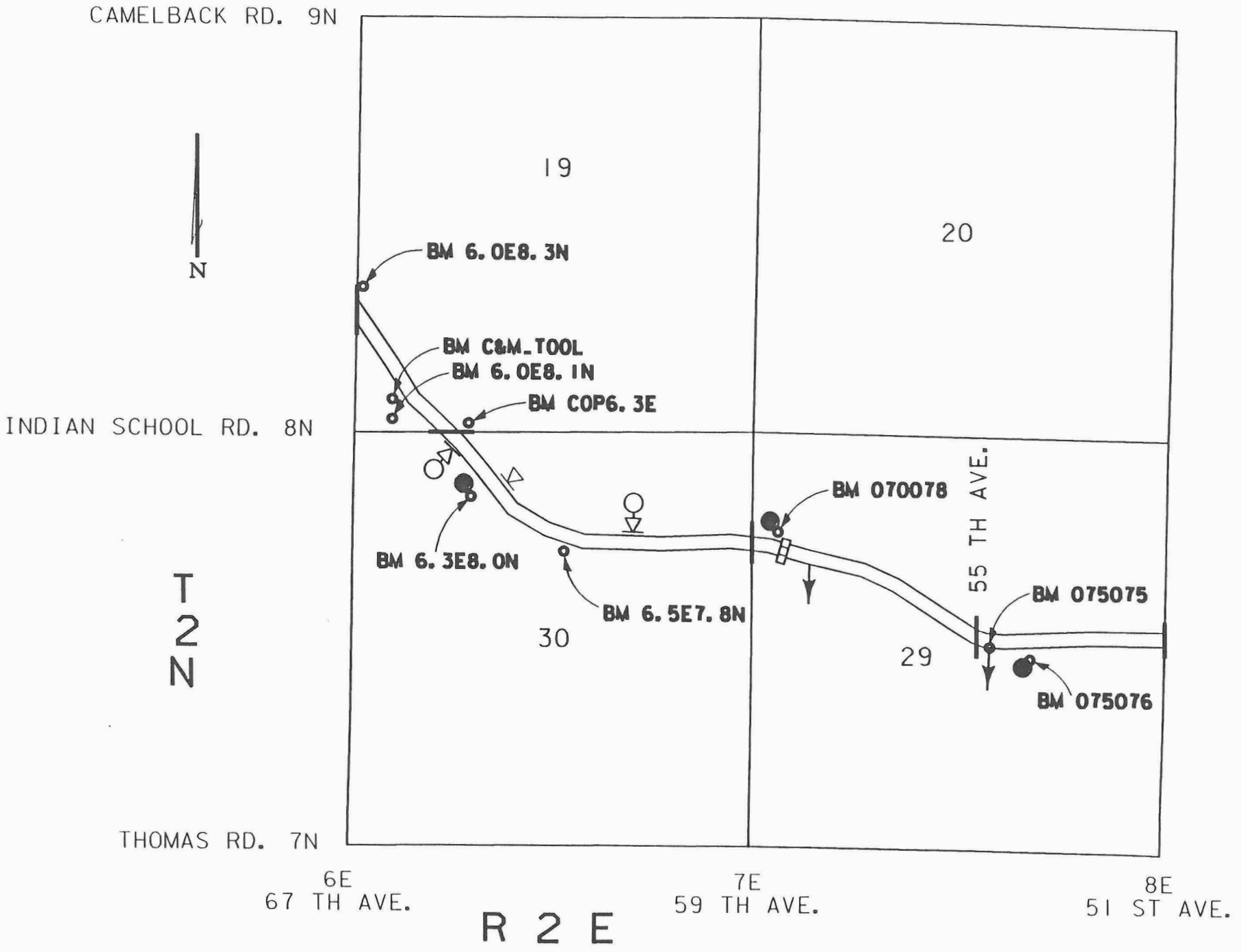
4) In January of 1994, the last circuit began at benchmarks established at the 59th Avenue bridge over the Grand Canal (from item 3), ran West along the Grand to the tail end at New River, looped back East to 83rd Avenue, deviate from the Grand Canal North along 83rd Avenue to Olive Avenue, East along Olive Avenue to Grand Avenue where the circuit tied into benchmarks which were also established in the 1991 surveys. This portion was also kept in the NA2000 module and compiled into the computer file GRAND.FBK.

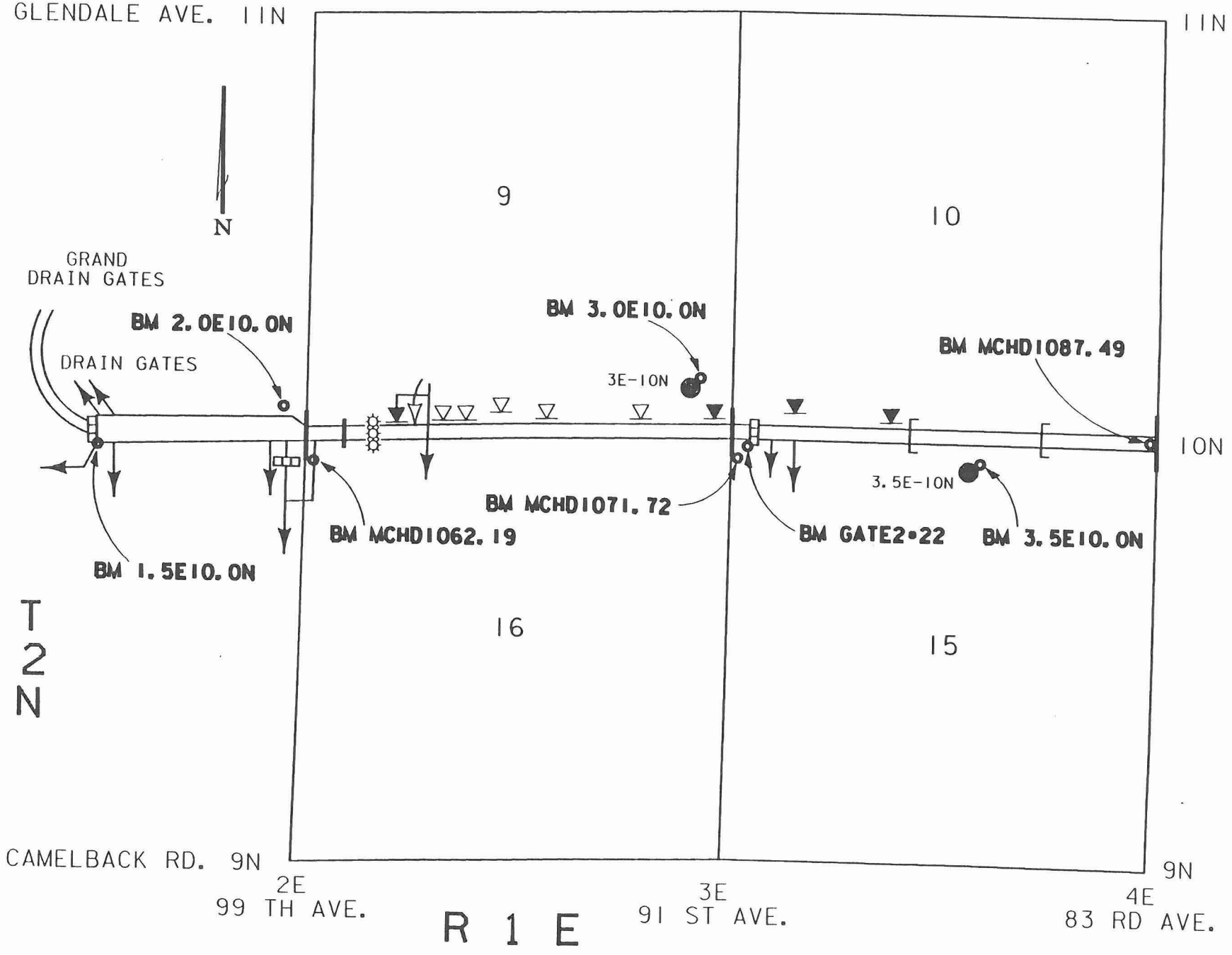
When the field observations were finished, all computer files and field book data were compiled into a single computer data file of the entire X-Cut and Grand Canal phase named GRAND.DAT. The format of this file enables the bulk input of the network to a program called STAR*LEV. Executing the STAR*LEV program checked the input data for obvious blunders, then performed a least squares (best fit) adjustment for any residual errors. For the desired final product, it created an ASCII file named GRAND.LST. This composition lists the unadjusted input observations, the network solutions, and a statistical summary of the confidence levels for those solutions. The network solutions generated by STAR*LEV was the source of any final elevations shown on all other diagrams in this report.

NEW X-CUT AND GRAND CANALS ELEVATION NETWORK

SYLLIBUS OF FINAL ELEVATIONS AND DESCRIPTIONS CONTINUED

| SBIS FILE # | STATION | ELEVATION | SRP CO-ORD | MONUMENT DESCRIPTION |
|---|---|---|---|---|
| 1535 | 070120 | 1159.3621 | 7.0E 12.0N | BC by AHD |
| 1536 | 070125 | 1164.9923 | 7.0E 12.5N | 3" AC by SRP |
| 1537 | 7E*13N | 1172.8827 | 7.0E 13.0N | Cotton Spindle |
| 1538 | 070134 | 1175.6360 | 7.0E 13.4N | BC by COG |
| 1539 | 6.5E7.8N | 1098.5580 | 6.5E 7.8N | 3" AC by SRP 1993 |
| 1540 | 6.3E8.0N | 1098.3179 | 6.3E 8.0N | 3" AC by SRP 1993 |
| 1541 | COP6.3E | 1098.8759 | 6.3E 8.0N | 3" BC by COP |
| 1542 | 6.0E8.1N | 1095.1398 | 6.0E 8.1N | 3" AC by SRP |
| 1543 | C&M_TOOL | 1095.0758 | 6.0E 8.1N | 3" AC by SRP |
| 1544 | 6.0E8.3N | 1099.4127 | 6.0E 8.3N | 3" BC by COP |
| 1545 | 055085 | 1093.5705 | 5.5E 8.5N | 3" AC by SRP 1993 |
| 1546 | 050090 | 1097.0622 | 5.0E 9.0N | 3" AC by SRP 1993 |
| 1547 | BACK | 1096.3632 | 5.0E 9.0N | 3" AC by SRP 1993 |
| 1548 | 045095 | 1090.8919 | 4.0E 9.5N | 3" AC by SRP 1993 |
| 1549 | 4.2E9.9N | 1087.3517 | 4.2E 9.9N | 3" AC by SRP 1993 |
| 1550 | 4.0E10.0N | 1088.7506 | 4.0E 10.0N | 3" AC by SRP 1993 |
| 1551 | MCHD1087.4 | 1085.8336 | 4.0E 10.0N | 3" BC by MCHD 1985 |
| 1552 | 3.5E10.0N | 1073.9254 | 3.5E 10.0N | 3" AC by SRP 1993 |
| 1553 | MCHD1071.7 | 1070.0452 | 3.0E 10.0N | 3" BC by MCHD 1981 |
| 1554 | GATE2*22 | 1069.0532 | 3.0E 10.0N | 3" BC by SRVWUA |
| 1555 | 3.0E10.0N | 1064.7422 | 3.0E 10.0N | 3" AC by SRP 1993 |
| 1556 | MCHD1062.1 | 1062.1758 | 2.0E 10.0N | 3" BC by MCHD |
| 1557 | 2.0E10.0N | 1056.0028 | 2.0E 10.0N | 3" AC by SRP 1993 |
| 1558 | 1.5E10.0N | 1058.6136 | 1.5E 10.0N | 3" AC by SRP 1993 |
| 1559 | 4.0E10.5N | 1089.3244 | 4.0E 10.5N | 3" AC by SRP 1993 |
| 1560 | 4.0E11.0N | 1096.6582 | 4.0E 11.0N | 3" AC by SRP 1993 |
| 1561 | 4.0E11.5N | 1108.8910 | 4.0E 11.5N | 3" BC by SRVWUA 199 |
| 1562 | 4.0E12.0N | 1104.1888 | 4.0E 12.0N | 3" AC by SRP 1993 |
| 1563 | 4.0E12.5N | 1112.7436 | 4.0E 12.5N | 3" AC by SRP 1993 |
| 1564 | 4.0E13.0N | 1125.9094 | 4.0E 13.0N | 3" BC by SRVWUA 199 |
| 1565 | WELL4.5E13N | 1128.9122 | 4.5E 13.0N | 3" AC by SRP 1993 |
| 1566 | BM2063*C | 1130.6442 | 4.5E 13.0N | 3" AC by ADOT 1983 |
| 1567 | ADOT_BC | 1134.0190 | 5.0E 13.0N | AC by ADOT |
| 1568 | 5E_13N | 1136.3060 | 5.0E 13.0N | Threaded Stud in HH |


CAMELBACK RD. 9N
N
19
20
BM 6.0E8.3N
BM C&M_TOOL
BM 6.0E8.1N
BM COP6.3E
INDIAN SCHOOL RD. 8N
BM 070078
55 TH AVE.
BM 6.3E8.0N
BM 6.5E7.8N
BM 075075
T 2 N
30
29
BM 075076
THOMAS RD. 7N
6E
67 TH AVE.
7E
59 TH AVE.
8E
51 ST AVE.
R 2 E


GLENDALE AVE. 11N
11N
N
9
10
GRAND
DRAIN GATES
DRAIN GATES
BM 2.0E10.0N
BM 3.0E10.0N
3E-10N
BM MCHD1087.49
10N
3.5E-10N
BM MCHD1071.72
BM MCHD1062.19
BM GATE2•22
BM 3.5E10.0N
BM 1.5E10.0N
T
2
N
16
15
CAMELBACK RD. 9N
9N
2E
99 TH AVE.
3E
91 ST AVE.
4E
83 RD AVE.
R 1 E

NEW CROSSCUT AND GRAND CANALS PHASE

BENCHMARK MONUMENT DESCRIPTIONS CONTINUED

| DESIGNATION | DESCRIPTION |
|---|---|
| 6.5E7.8N | 3" aluminum cap located on the South sid of the Grand Canal in line with 63rd Avenue to the South on an abandoned headwall, stamped "SALT RIVER PROJECT BM 93" and "6.5E 7.8N". |
| 6.3E8.0N | 3" aluminum cap located on the SE corner of the well pad situated on the Southwesterly side of the Grand Canal and the South side of Indian School Road, stamped "SALT RIVER PROJECT BM 93" and "6.3E 8.0N". |
| COP6.3E | 3" brass cap located on the wingwall at the NE corner of the Indian School Road bridge over the Grand Canal, stamped "CITY OF PHOENIX 19". |
| 6.0E8.1N | 3" aluminum cap located on the South end of the sidewalk situated on the East side of the Western C&M Building at the SRP 67th Avenue and Indian School facility, stamped "SALT RIVER PROJECT BM". |
| C&M_TOOL | 3" aluminum cap located on the sidewalk in front of the tool room situated at the East side of the Western C&M Building at the SRP 67th Avenue and Indian School Road facility, stamped "SALT RIVER PROJECT BM". |
| 6.0E8.3N | 3" brass cap located on the curbing at the NE corner of the 67th Avenue bridge over the Grand Canal, stamped "CITY OF PHOENIX 19". |
| 055085 | 3" aluminum cap located on the NE corner of the well pad situated on the South side of the Grand Canal and West of 67th Avenue near 71st Drive and Sells Drive, stamped "055085". |
| 050090 | 3" aluminum cap located on the SW corner of radial gate #2-20 near the SE corner of the intersection of 75th Avenue and Camelback Road, stamped "050090". |
| BACK | 3" aluminum cap located at the North side of the Grand Canal and the West side of 75th Avenue, stamped "ARIZONA D.O.T. HWY. DIV." and "1986 GEODETIC SURVEY" and "BACK". |

NEW CROSSCUT AND GRAND CANALS PHASE

BENCHMARK MONUMENT DESCRIPTIONS CONTINUED

| DESIGNATION | DESCRIPTION |
|---|---|
| 045095 | 3" aluminum cap located on the SE corner of the well pad situated on the South side of the Grand Canal and the East side of 79th Avenue, stamped "045095". |
| 4.2E9.9N | 3" aluminum cap located on the NW corner of the well pad situated on the North side of the Grand Canal and East of the intersection of 83rd Avenue and Bethany Home Road, stamped "SALT RIVER PROJECT BM 93" and "4.2E 9.9N". |
| 4.0E10.0N | 3" aluminum cap located on the SW corner of the radial gate #2-21 for the Grand Canal situated on the East side of 83rd Avenue, stamped "SALT RIVER PROJECT BM 93" and "4.0E 10.0N". |
| MCHD1087.49 | 3" brass cap located on the concrete guard rail situated on the West side of 83rd Avenue and the Grand Canal, stamped "MARICOPA COUNTY HIGHWAY DEPT. 1087.49 1985". |
| 3.5E10.0N | 3" aluminum cap located on the NE corner of the well pad situated on the South side of the Grand Canal near the NW corner of Welbor Substation site, stamped "SALT RIVER PROJECT BM 93" and "3.5E 10.0N". |
| MCHD1071.72 | 3" brass cap located on the South end of the East concrete guard rail for the 91st Avenue bridge over the Grand Canal, stamped "MARICOPA COUNTY HWY.DEPT. 1071.72 1981". |
| GATE2*22 | 3" brass cap located on the SW corner of the radial gate #2-22 for the Grand Canal situated East of 91st Avenue, stamped SRVWUA ENGINEERING DEPT. BENCHMARK" and "ELEV. 1069.94 LOCATION + ". |
| 3.0E10.0N | 3" aluminum cap located on the NE corner of the well pad situated on the North side of the Grand Canal and the West side of 91st Avenue. |
| MCHD1062.19 | 3" brass cap located on the South end of the East side guard rail for the 99th Avenue bridge over the Grand Canal, stamped "MARICOPA COUNTY HIGHWAY DEPT. 1062.19". |

NEW CROSSCUT AND GRAND CANALS PHASE

BENCHMARK MONUMENT DESCRIPTIONS CONTINUED

| DESIGNATION | DESCRIPTION |
|---|---|
| BM2063*C | 3" aluminum cap located on a concrete pole riser foundation situated on the South side of Olive Avenue and 100' (more or less) West of 79th Avenue, stamped "ARIZONA D.O.T. HWY DIV. P&M" and "GEODETIC SURVEY BM 2063-C 1983". |
| ADOT_BC | ADOT aluminum cap located on the curbing at the NW corner of the intersection of 79th Avenue and Grand Avenue, stamped "1136.10". |
| 5E_13N | Threaded stud in a hand hole located 3' West of the centerline of a gateway entrance to a wellsite situated West of 75th Avenue and NE of Grand Avenue. |

BETHANY HOME ROAD
OUTFALL CHANNEL

CP# 4144

FCD No. 98-46

CP# 4144

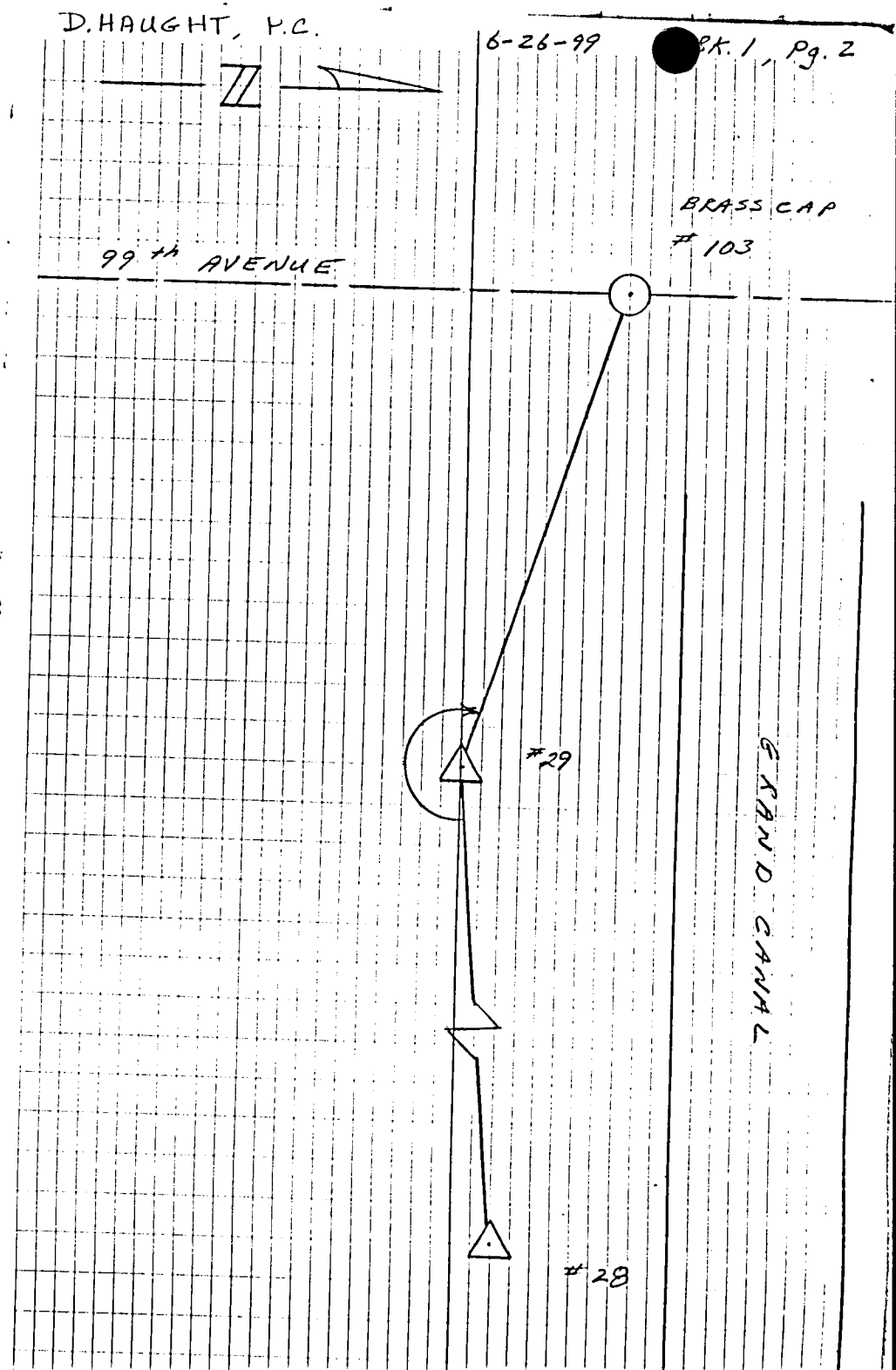
NATIONAL

418

N.W. COR SEC. 16 T. 2 N. R. 1 E

D. HAUGHT, P.C. 6-26-99 BK. 1, Pg. 2

| | | | | | | |
|---|---|---|---|---|---|---|
| B/S | 28 | | 99th AVE & BETHANY HOME ROAD | | | |
| ⊼ | 29 | | | | | |
| F/S | 103 | | | | | |
| | 0° 00' | 00" | | | | |
| | 201° 57' | 15" | | 47.455 | 47.455 | |
| | 21° 57' | 25" | | | | |
| | 179° 59' | 55" | | | | |
| M ∡ | 201° 57' | 22.5" | | | | |
| B/S | 103 | | | | | |
| ⊼ | 29 | | | | | |
| F/S | 28 | | | | | |
| | 0° 00' | 00" | | | | |
| | 158° 02' | 50" | | | | |
| | 338° 02' | 45" | | | | |
| | 180° 00' | 00 | | | | |
| M ∡ | 158° 02' | 47.5" | | | | |
| TOTAL | 360° 00' | 10" | | | | |
| R T ∡ | 201° 57' | 17.5" | | | | |
| H.D. | 47.455 | | | | | |

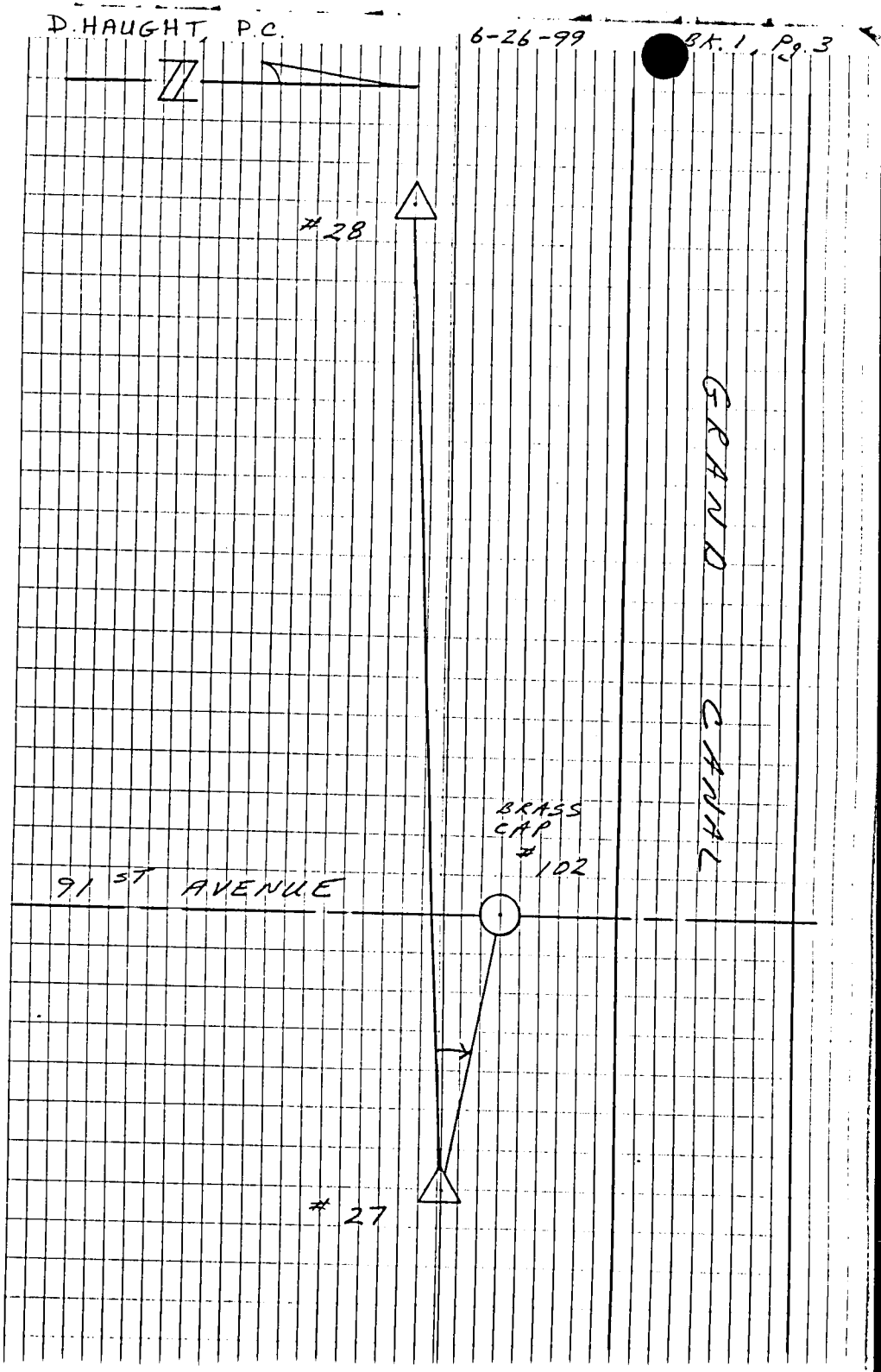


| N.E. | COR. | SEC. 16 | T. 2 N. | R. 1 E. | | |
|---|---|---|---|---|---|---|
| B/S | 28 | | | | | |
| T | 27 | | | | | |
| F/S | 102 | | 91 ST AVE & BETHANY HOME ROAD | | | |
| | 0°00' | 00" | | 51.725 | 51.725 | |
| | 9°17' | 35" | | | | |
| | 189°17' | 30" | | | | |
| | 180°00' | 00" | | | | |
| M ∡ | 9°17' | 32.5" | | | | |
| B/S | 102 | | | | | |
| T | 27 | | | | | |
| F/S | 28 | | | | | |
| | 0°00' | 00" | | | | |
| | 350°42' | 30" | | | | |
| | 170°42' | 25" | | | | |
| | 179°59' | 55" | | | | |
| M ∡ | 350°42' | 30" | | | | |
| TOTAL | 360°00' | 02.5" | | | | |
| RT ∡ | 9°17' | 31.25" | | | | |
| H.D. | 51.725 | | | | | |

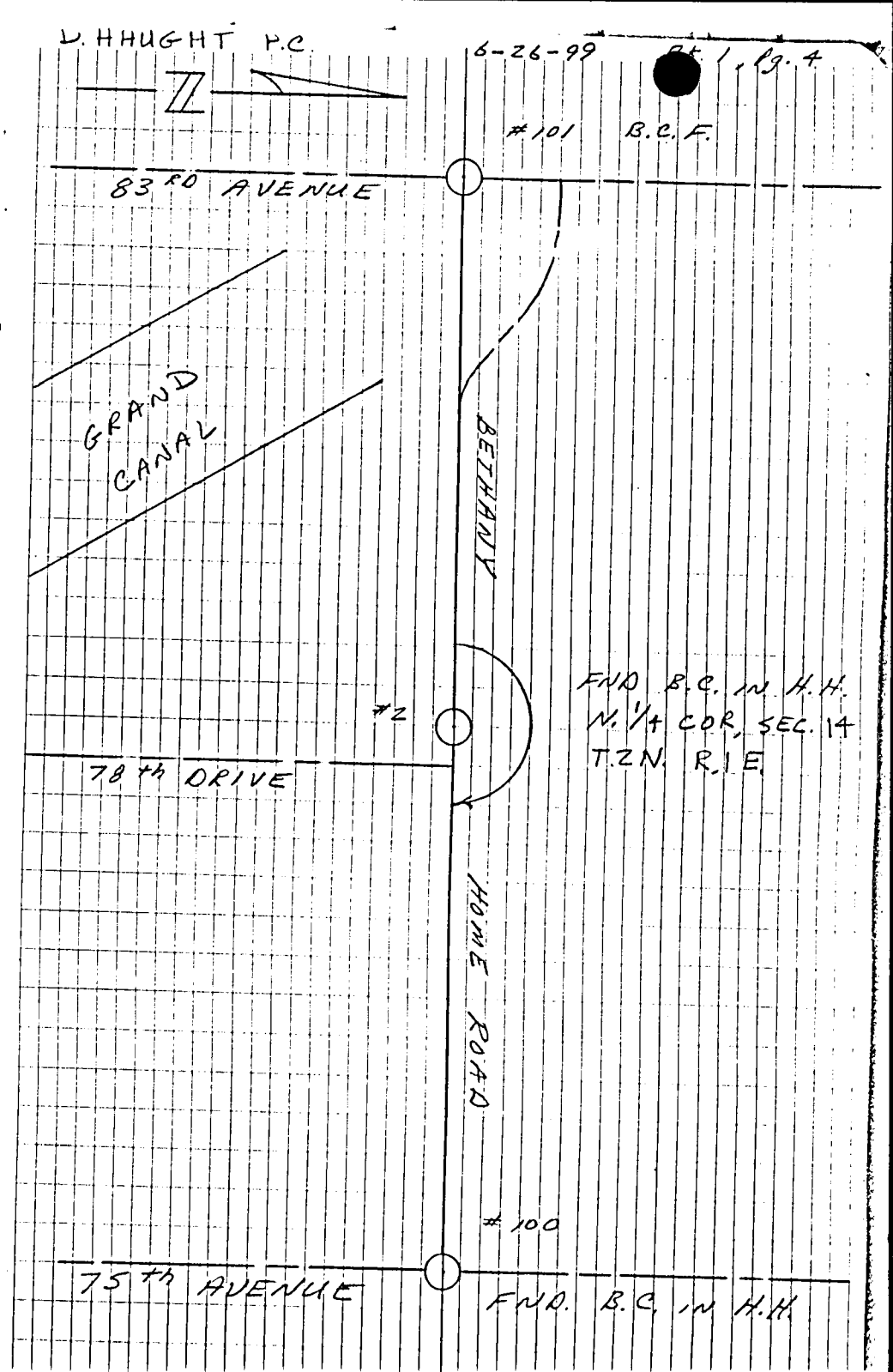
D. HAUGHT, P.C.

6-26-99

BK. 1, Pg. 3



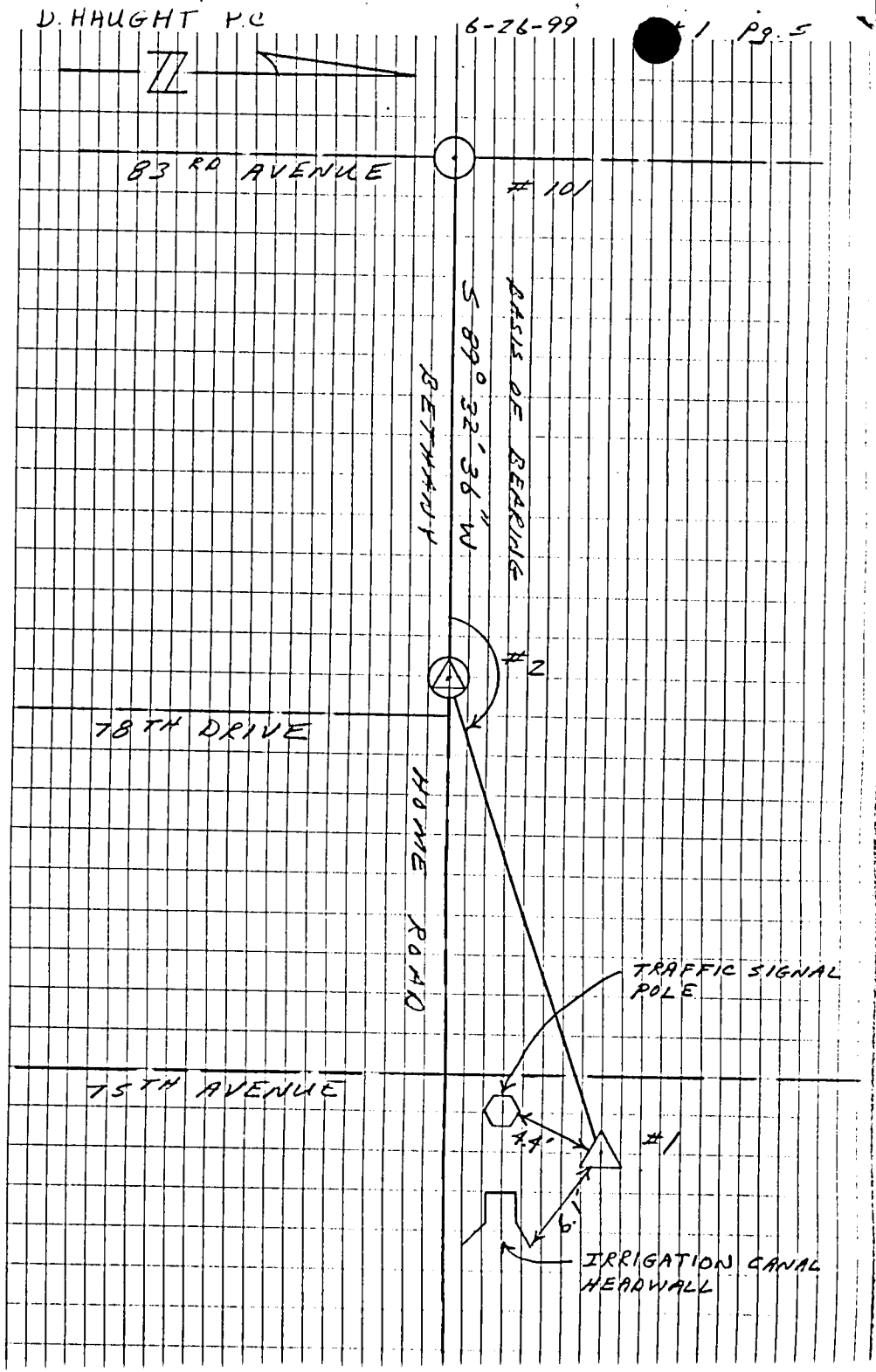
| | N.E. COR. | SEC 14 | T. 2 N. | R. 1 E. | |
|---|---|---|---|---|---|
| B/S | 101 | | | | |
| Π | 2 | | | 2609.410 | 2609.410 |
| F/S | 100 | | 75th AVE | & BETHANY HOME ROAD | |
| | 0° 00' | 00" | | | |
| | 180° 00' | 10" | | 2610.360 | 2610.360 |
| | 0° 00' | 10" | | | |
| | 179° 59' | 55" | | | |
| M Σ | 180° 00' | 12.5" | | | |
| R/S | 100 | | | | |
| Π | 2 | | | | |
| F/S | 101 | | | | |
| | 0° 00' | 00" | | | |
| | 179° 59' | 45" | | | |
| | 359° 59' | 40" | | | |
| | 179° 59' | 50" | | | |
| M Σ | 179° 59' | 47.5" | | | |
| TOTAL | 360° 00' | 00" | | | |
| RT Σ | 180° 00' | 12.5" | | | |
| H.D. | 2610.360 | | | | |



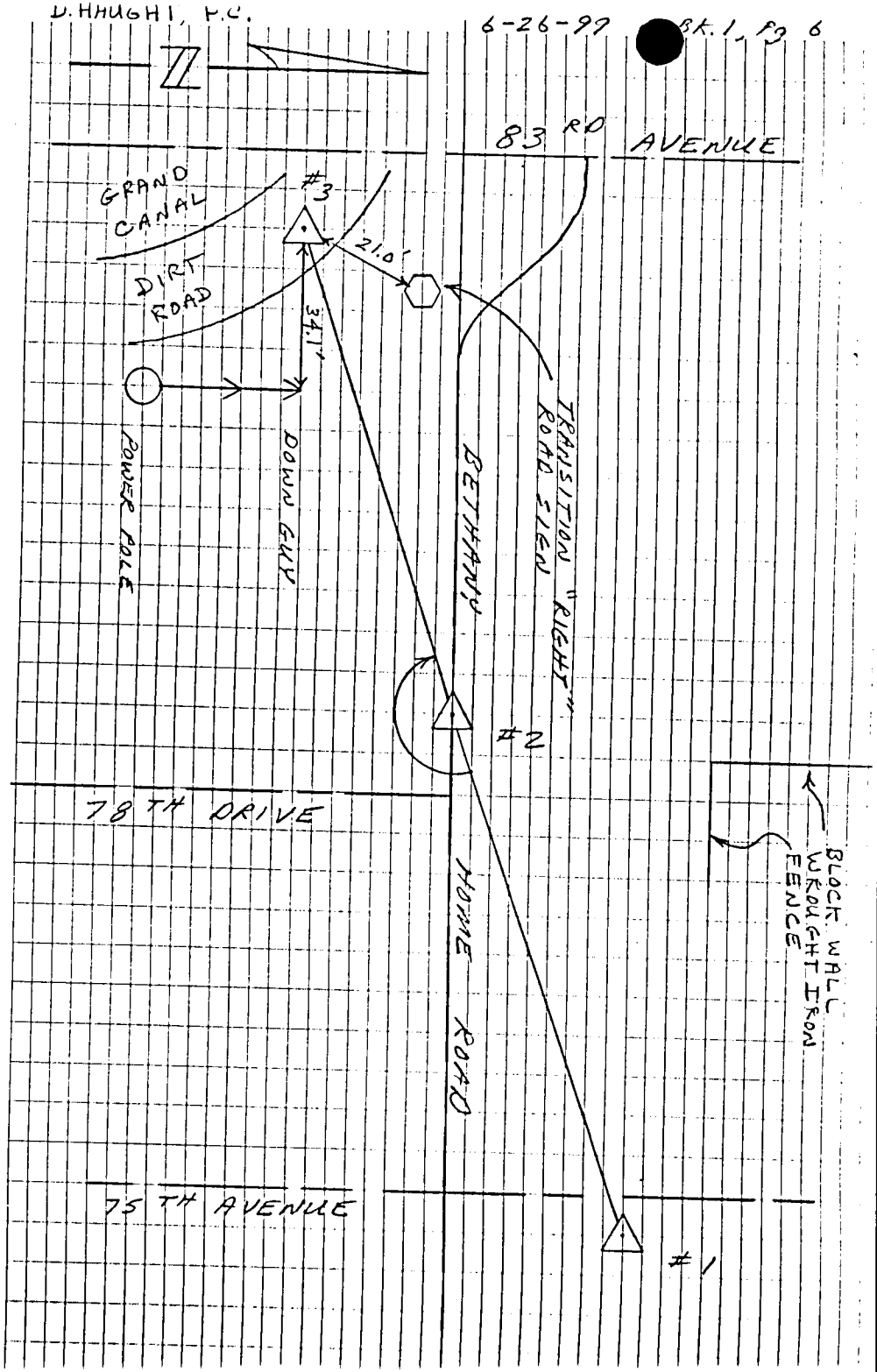
TRAVERSE CONTROL (BASIS OF BEARING)

| | | | | | | |
|---|---|---|---|---|---|---|
| B/S | 101 | B.C.F. | 83rd Ave & Bethany Home Road | | | |
| T | 2 | B.C. | H.H. | | | |
| F/S | 1 | C.P. | 1/2" IR | | | |
| | 0° 00' 00" | | | 2666.645 | 2666.650 | |
| | 179° 14' 45" | | | | | |
| | 359° 14' 35" | | | | | |
| | 179° 59' 55" | | | | | |
| MT | 179° 14' 42.5" | | | | | |
| B/S | 1 | | | | | |
| T | 2 | | | | | |
| F/S | 101 | | | | | |
| | 0° 00' 00" | | | | | |
| | 180° 45' 20" | | | | | |
| | 0° 45' 15" | | | | | |
| | 179° 59' 55" | | | | | |
| MT | 180° 45' 20" | | | | | |
| TOTAL | 360° 00' 02.5" | | | | | |
| RT ∠ | 179° 14' 41.25" | | | | | |
| H.D. | 2666.6475 | | | | | |

D. HAUGHT P.C 6-26-99 #1 pg. 5



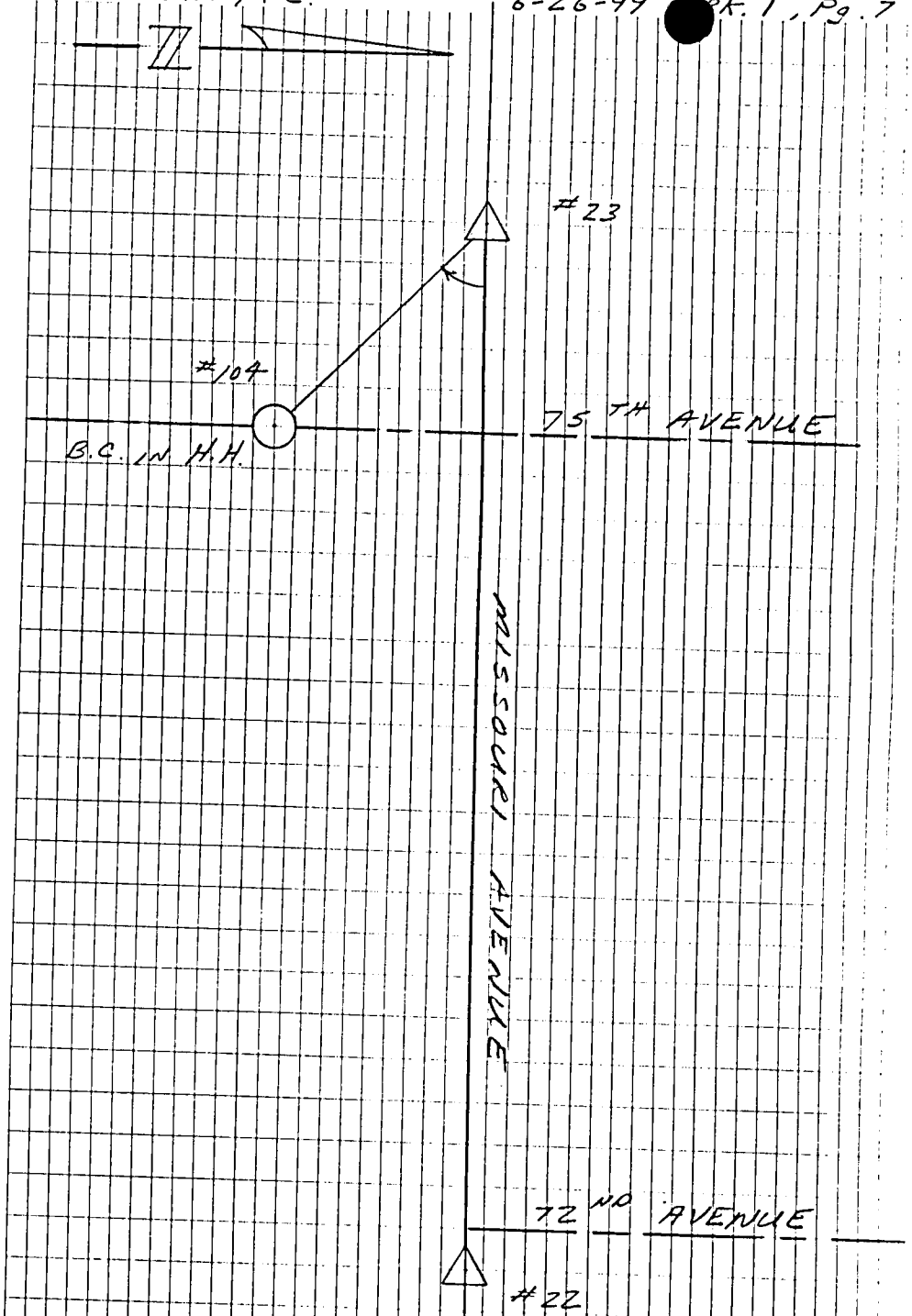
| | | | | | |
|---|---|---|---|---|---|
| B/S | 1 | ½" I.R. | C.P. @ | 75th AVE & BETHANY HOME | ROAD |
| ℄ | 2 | B.C.F. | 79th AVE & BETHANY HOME | ROAD | |
| F/S | 3 | ½" I.R. | C.P. | | |
| | | 0° 00' 00" | | 2042.660 | 2042.660 |
| | | 180° 27' 00" | | | |
| | | 0° 26' 57.5" | | | |
| | | 180° 00' 00" | | | |
| M℄ | 180° 26' | 57.5" | | | |
| B/S | 3 | | | | |
| ℄ | 2 | | | | |
| F/S | 1 | | | | |
| | | 0° 00' 00" | | | |
| | | 179° 33' 05" | | | |
| | | 359° 33' 00" | | | |
| | | 179° 59' 55" | | | |
| M℄ | 179° 33' | 05" | | | |
| TOTAL | 360° 00' | 02.5" | | | |
| RT ℄ | 180° 26' | 56.25" | 55.51' | | |
| H.O. | 2042.660 | | | | |



| E 1/4 COR. | SEC. 14 | T. 2 N. | R. 1 E. | | | |
|---|---|---|---|---|---|---|
| B/S | 22 | | PK NAIL | | | |
| T | 23 | | "X" IN CONC. | | | |
| F/S | 104 | | 75th AVE & Missouri Ave | | | |
| | 0° 00' 00" | | | | | |
| | 45° 27' 50" | | | 54.610 | 54.610 | |
| | 225° 27' 30" | | | | | |
| | 179° 59' 50" | | | | | |
| M ∡ | 45° 27' 45" | | | | | |
| B/S | 104 | | | | | |
| T | 23 | | | | | |
| F/S | 22 | | | | | |
| | 0° 00' 00" | | | | | |
| | 311° 32' 20" | | | | | |
| | 134° 32' 10" | | | | | |
| | 179° 59' 55" | | | | | |
| M ∡ | 314° 32' 17.5" | | | | | |
| TOTAL | 360° 00' 02.5" | | | | | |
| RT ∡ | 45° 27' 43.75" | | | | | |
| H.D. | 54.610 | | | | | |

D. HAUGHT, PC.

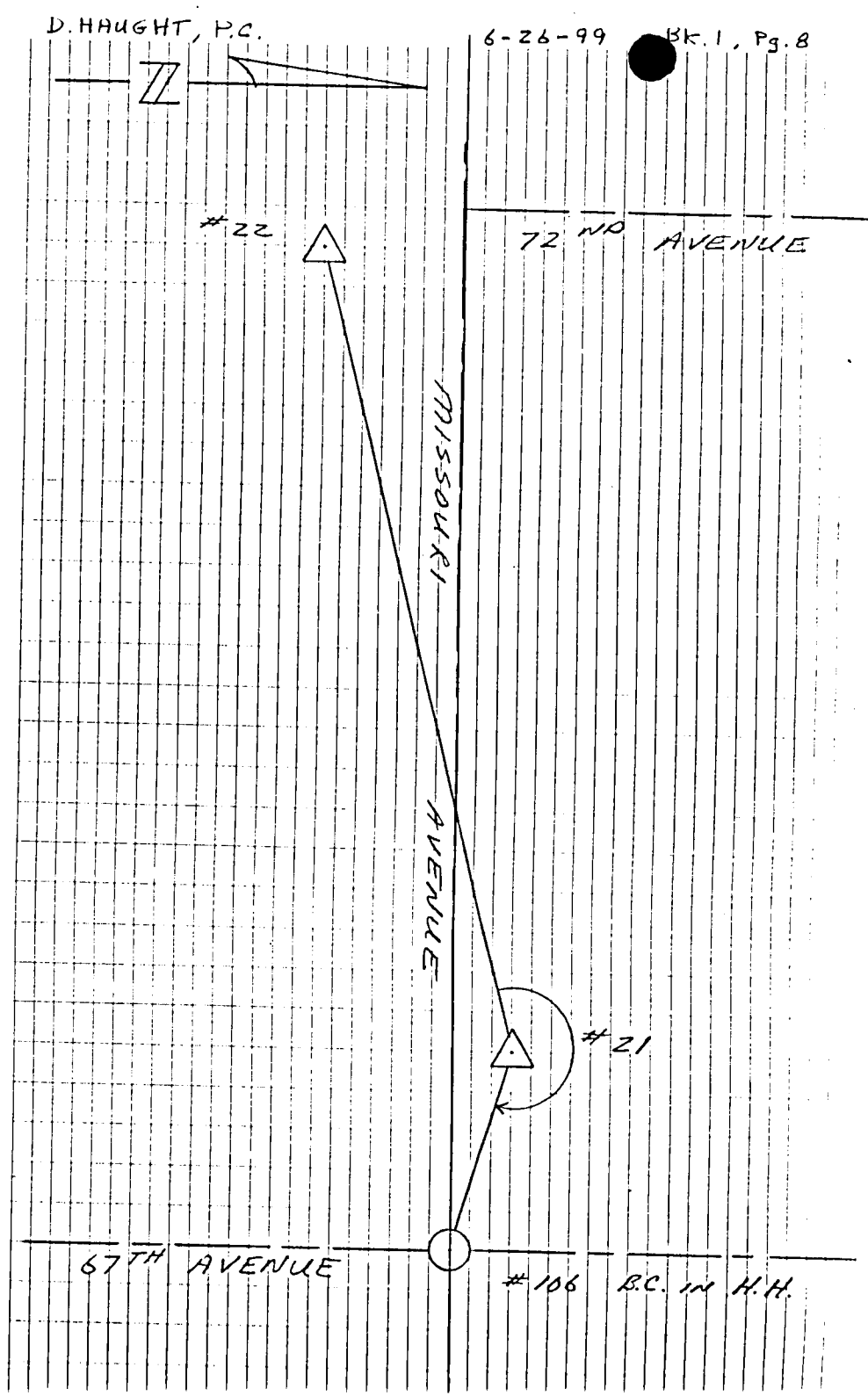
6-26-99 Bk. 1, Pg. 7



E. ¼ COR. SEC 13 T. 2 N. R. 1 E.

| | | | | | |
|---|---|---|---|---|---|
| B/S | 22 | | | | |
| ℄ | 21 | | | | |
| F/S | 106 | | 67th AVE & MISSOURI AVE | | |
| | 0°00' | 00" | | | |
| | 195°30' | 30" | | 83.945 | 83.945 |
| | 15°30' | 25" | | | |
| | 179°59' | 55" | | | |
| M℄ | 195°30' | 30" | | | |
| B/S | 106 | | | | |
| ℄ | 21 | | | | |
| F/S | 22 | | | | |
| | 0°00' | 00" | | | |
| | 164°29' | 30" | | | |
| | 344°29' | 20" | | | |
| | 179°59' | 45" | | | |
| M℄ | 164°29' | 32.5" | | | |
| TOTAL | 360°00' | 02.5" | | | |
| RT ∠ | 195°30' | 28.75" | | | |
| H.D. | 89.945 | | | | |

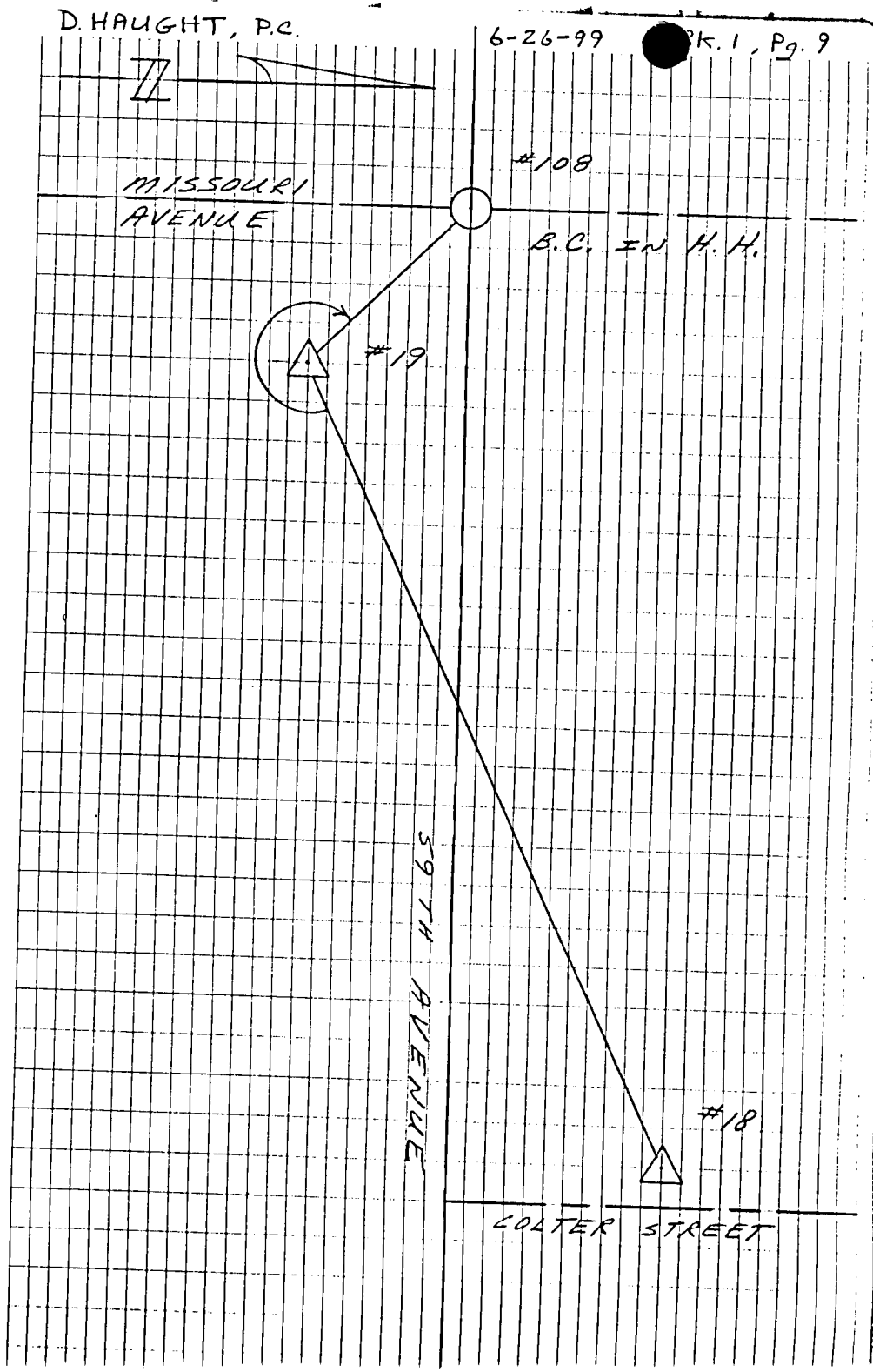
D. HAUGHT, P.C. 6-26-99 Bk. 1, Pg. 8



| ∠ 14 | COR. | SEC. 18 | T. 2 N. | R. 2 E. | | |
|---|---|---|---|---|---|---|
| B/S | 18 | | | | | |
| ℄ | 19 | | | | | |
| F/S | 108 | | 59th AVE & | Missouri | Ave. | |
| | 0° 00' | 00" | | | | |
| | 246° 32' | 55" | | 68.100 | 68.100 | |
| | 66° 32' | 55" | | | | |
| | 179° 59' | 55" | | | | |
| M ℄ | 246° 32' | 57.5" | | | | |
| B/S | 108 | | | | | |
| ℄ | 19 | | | | | |
| F/S | 18 | | | | | |
| | 0° 00' | 00" | | | | |
| | 113° 27' | 10" | | | | |
| | 293° 27' | 00" | | | | |
| | 179° 59' | 55" | | | | |
| M ℄ | 113° 27' | 07.5" | | | | |
| TOTAL | 360° 00' | 05" | | | | |
| RT ℄ | 246° 32' | 55" | | | | |
| H.D. | 68.100 | | | | | |

D. HAUGHT, P.C.

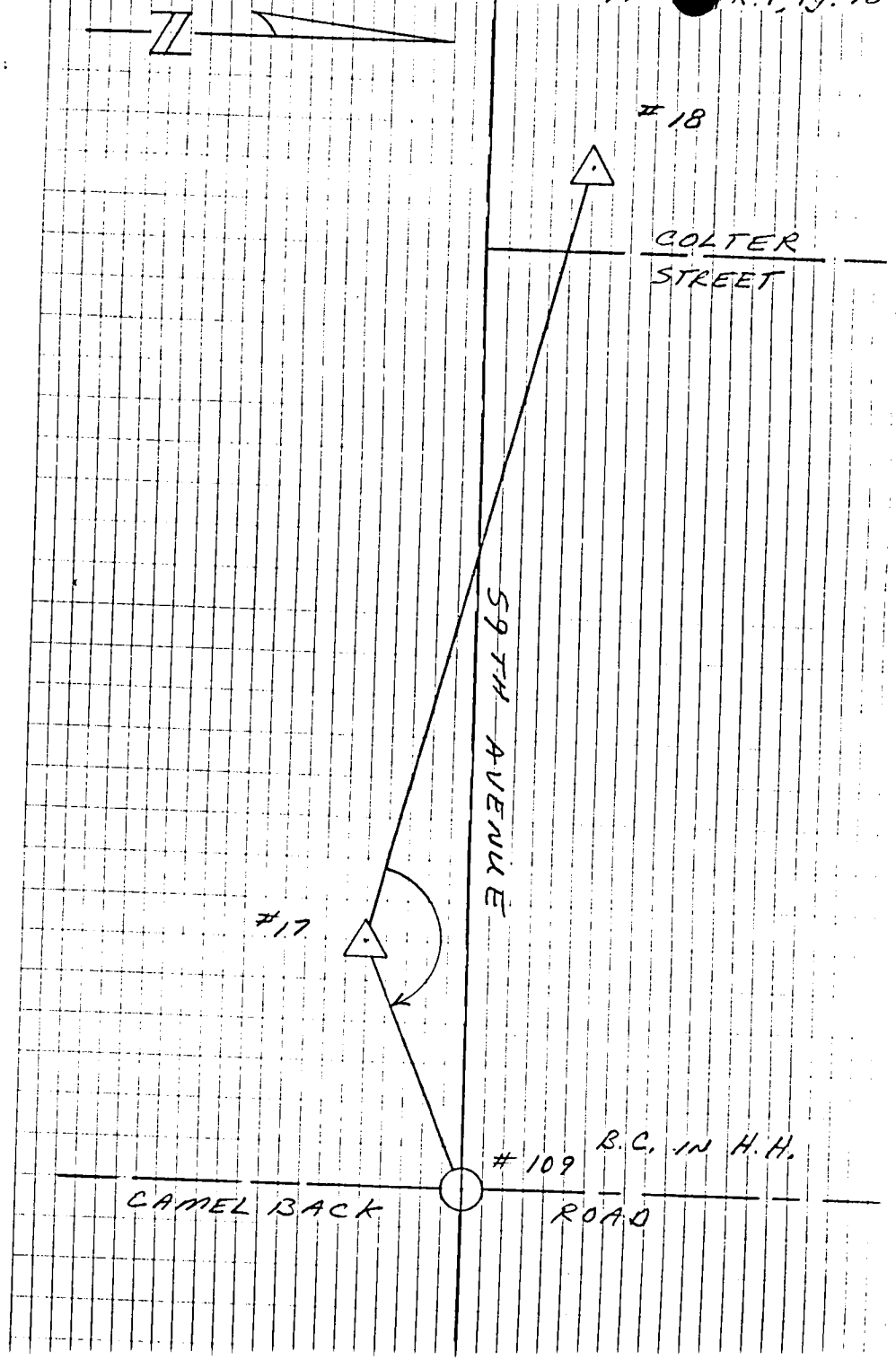
6-26-99 Bk. 1, Pg. 9



| S. L. | COR. | SEC. 18 | T. 2N. | R. 2 E. | | |
|---|---|---|---|---|---|---|
| B/S | 18 | | | | | |
| ⊼ | 17 | | | | | |
| F/S | 109 | | 59th AVE & CAMELBACK | | | ROAD |
| | 0° 00' | 00" | | | | |
| | 144° 09' | 10" | | 81.025 | 81.025 | |
| | 324° 09' | 05" | | | | |
| | 179° 59' | 45" | | | | |
| M⊼ | 144° 09' | 15" | | | | |
| B/S | 109 | | | | | |
| ⊼ | 17 | | | | | |
| F/S | 18 | | | | | |
| | 0° 00' | 00" | | | | |
| | 215° 50' | 45" | | | | |
| | 35° 50' | 30" | | | | |
| | 179° 59' | 45" | | | | |
| M⊼ | 215° 50' | 45" | | | | |
| TOTAL | 360° 00' | 00" | | | | |
| RT ⊼ | 144° 09' | 15" | | | | |
| H.D. | 81.025 | | | | | |

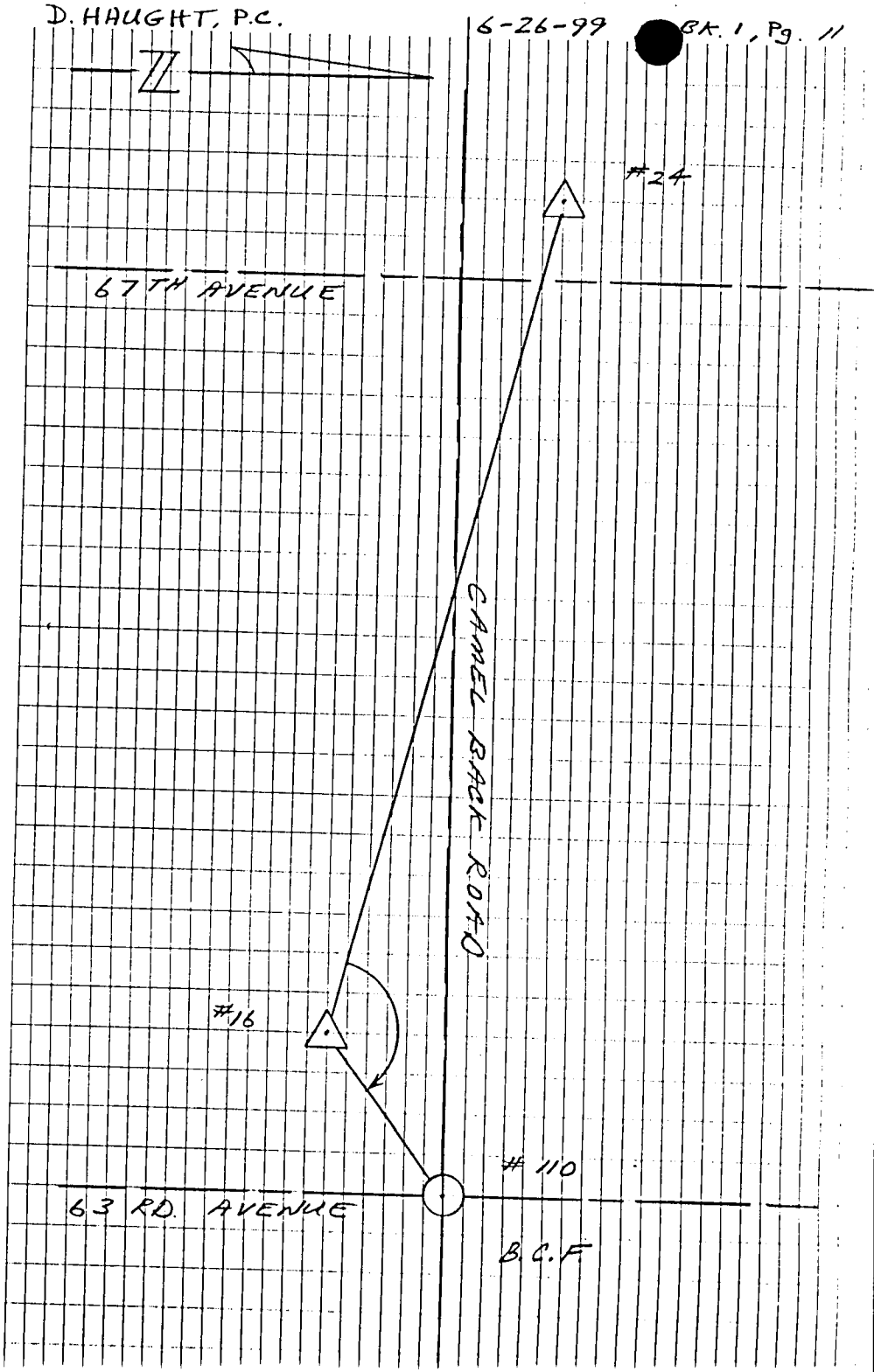
D. HAUGHT, P.C.

6-26-99 Bk. 1, Pg. 10



| S. 1/4 | COR | SEC. 18 | T. 2N. | R. 2 E | | | |
|---|---|---|---|---|---|---|---|
| B/S | 24 | | | | | | |
| T | 18 | | | | | | |
| F/S | 110 | | 63rd AVE & CAMELBACK ROAD | | | | |
| | 0° 00' | 00" | | | | | |
| | 121° 47' | 45" | | 55.210 | 55.210 | | |
| | 301° 47' | 35" | | | | | |
| | 179° 59' | 50" | | | | | |
| M T | 121° 47' | 45" | | | | | |
| B/S | 110 | | | | | | |
| T | 16 | | | | | | |
| F/S | 24 | | | | | | |
| | 0° 00' | 00" | | | | | |
| | 238° 12' | 10" | | | | | |
| | 58° 12' | 05" | | | | | |
| | 179° 59' | 55" | | | | | |
| M T | 238° 12' | 10" | | | | | |
| TOTAL | 359° 59' | 55" | | | | | |
| RT ∠ | 121° 47' | 47.5" | | | | | |
| H.D. | 55.210 | | | | | | |

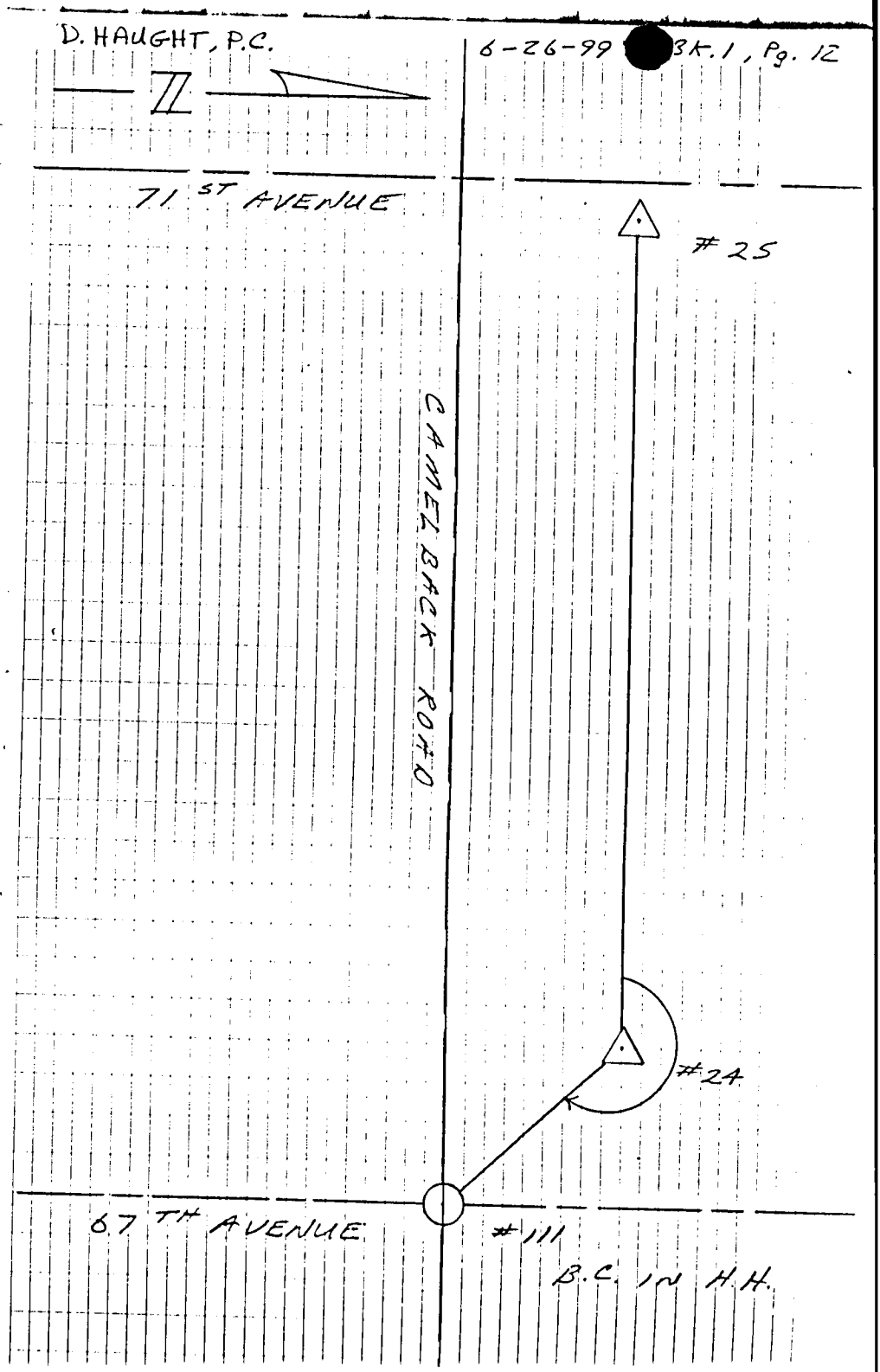
D. HAUGHT, P.C. 6-26-99 BK. 1, Pg. 11



| | S.E. | COR. | SEC. 13 | T. 2 N. | R. 1 E. | | |
|---|---|---|---|---|---|---|---|
| | B/S | 25 | | | | | |
| | T | 24 | | | | | |
| | F/S | 111 | | 67TH AVE & CAMELBACK ROAD | | | |
| | | 0°00'00" | | | | | |
| | | 205 14 55 | | | 89.335 | 89.335 | |
| | | 25° 14' 40" | | | | | |
| | | 179° 59' 45" | | | | | |
| | M ∡ | 205° 14' 55" | | | | | |
| | B/S | 111 | | | | | |
| | T | 24 | | | | | |
| | F/S | 25 | | | | | |
| | | 0°00'00" | | | | | |
| | | 154 45 00 | | | | | |
| | | 334 44 50 | | | | | |
| | | 179 59 45 | | | | | |
| | M ∡ | 154° 45' 02.5" | | | | | |
| 7 | TOTAL | 359° 59' 57.5" | | | | | |
| 8 | RT ∡ | 205° 14' 56.25" | | | | | |
| 9 | H.P. | 89.335 | | | | | |

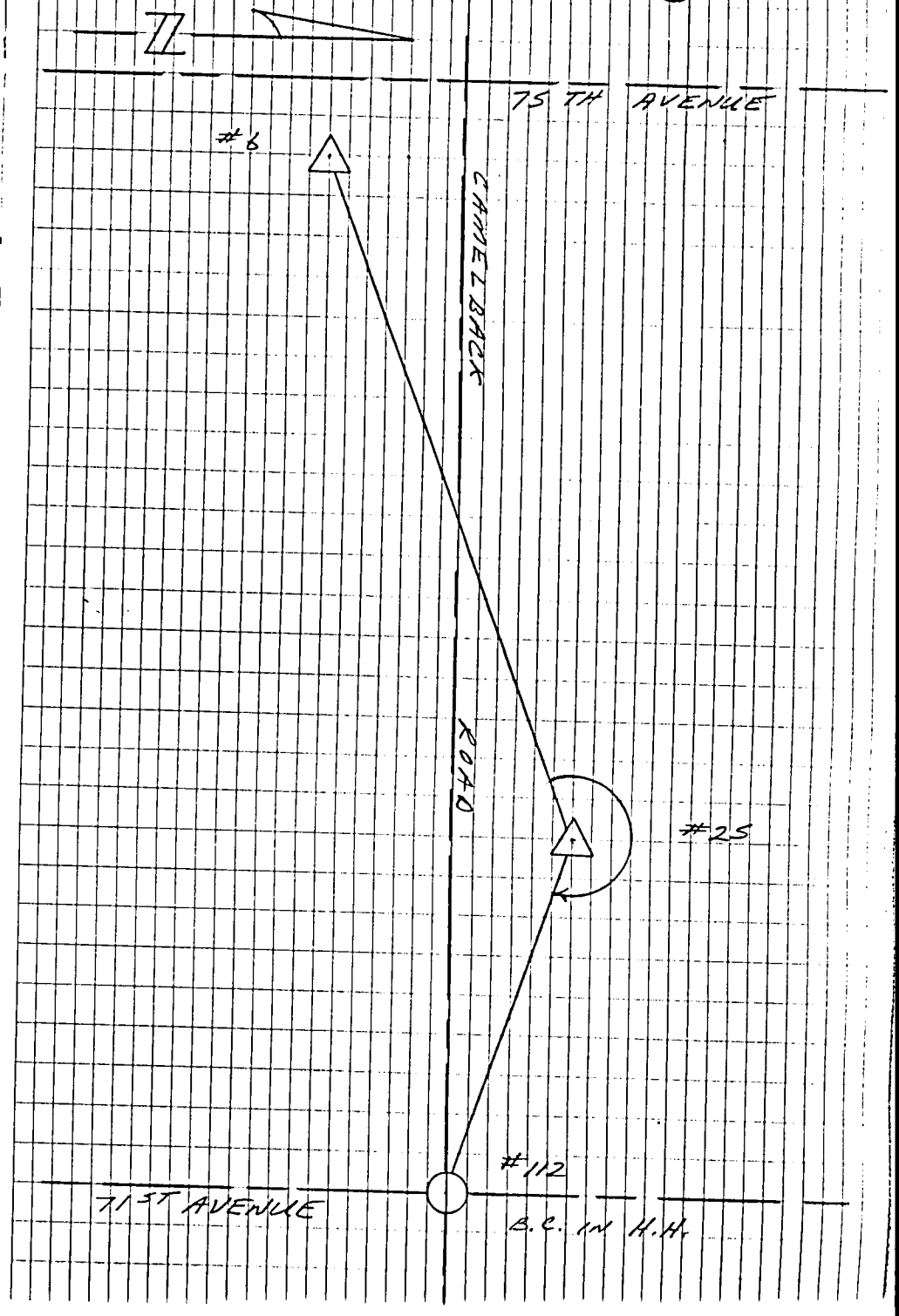
D. HAUGHT, P.C.

6-26-99 Bk. 1, Pg. 12



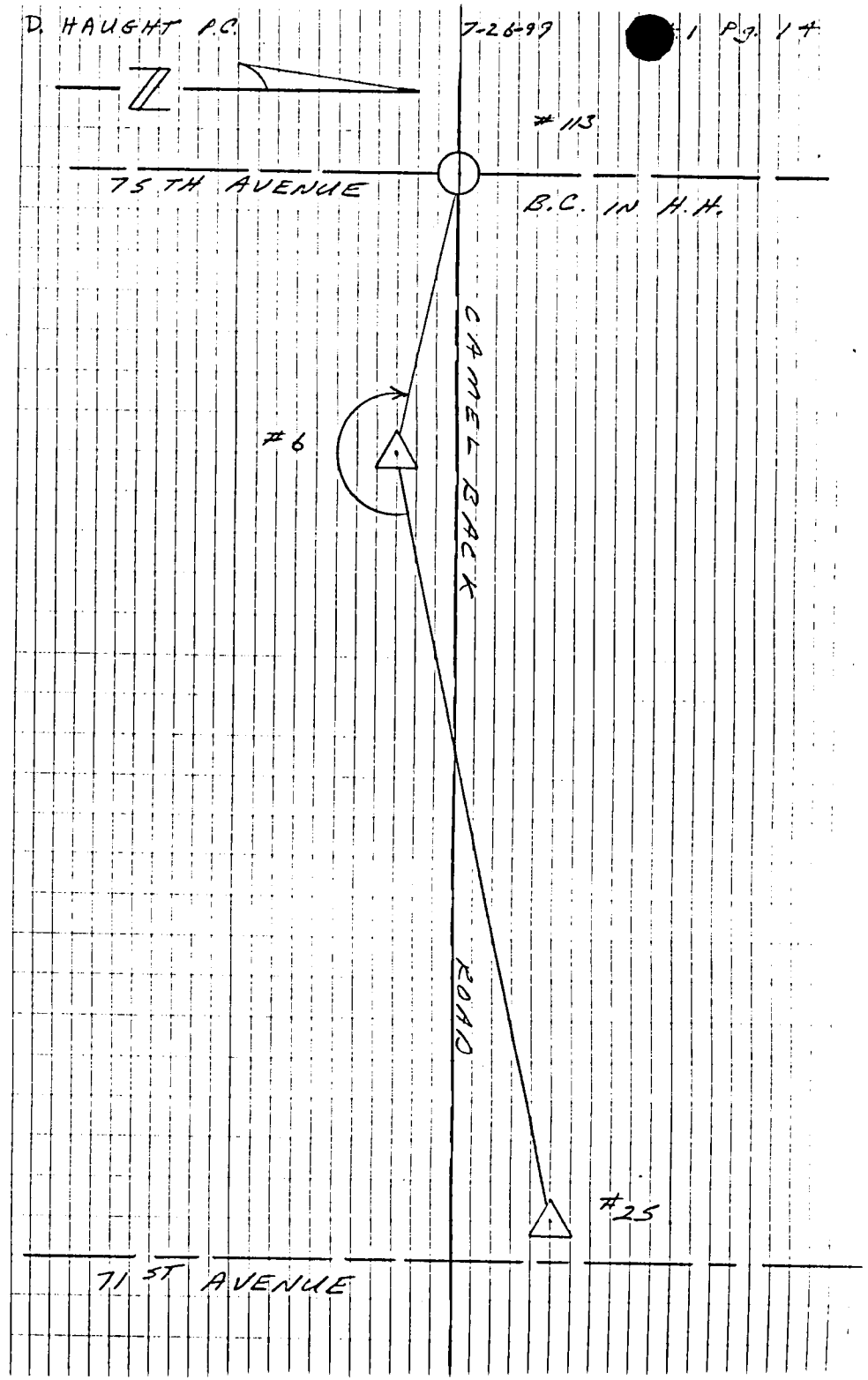
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S. 1/4 | SEC. 13 | T. 2 N. | R. 1 E. | | | | |
| B/S | 6 | | | | | | |
| π | 25 | | | | | | |
| F/S | 112 | | 71ST AVE | & CAMELBACK | ROAD | | |
| | 0° 00' | 00" | | | | | |
| | 208° 50' | 30" | | 85.795 | 85.795 | | |
| | 28° 50' | 30" | | | | | |
| | 179° 59' | 45" | | | | | |
| M ∡ | 208° 50' | 37.5" | | | | | |
| S/S | 112 | | | | | | |
| π | 25 | | | | | | |
| F/S | 6 | | | | | | |
| | 0° 00' | 00" | | | | | |
| | 151° 09' | 10" | | | | | |
| | 331° 09' | 05" | | | | | |
| | 179° 59' | 45" | | | | | |
| M ∡ | 151° 09' | 15" | | | | | |
| TOTAL | 359° 59' | 52.5" | | | | | |
| RT ∡ | 208° 50' | 40.75" | | | | | |
| H.D. | 85.795 | | | | | | |

D. HAUGHT P.C. 6-26-99 #1 pg. 13

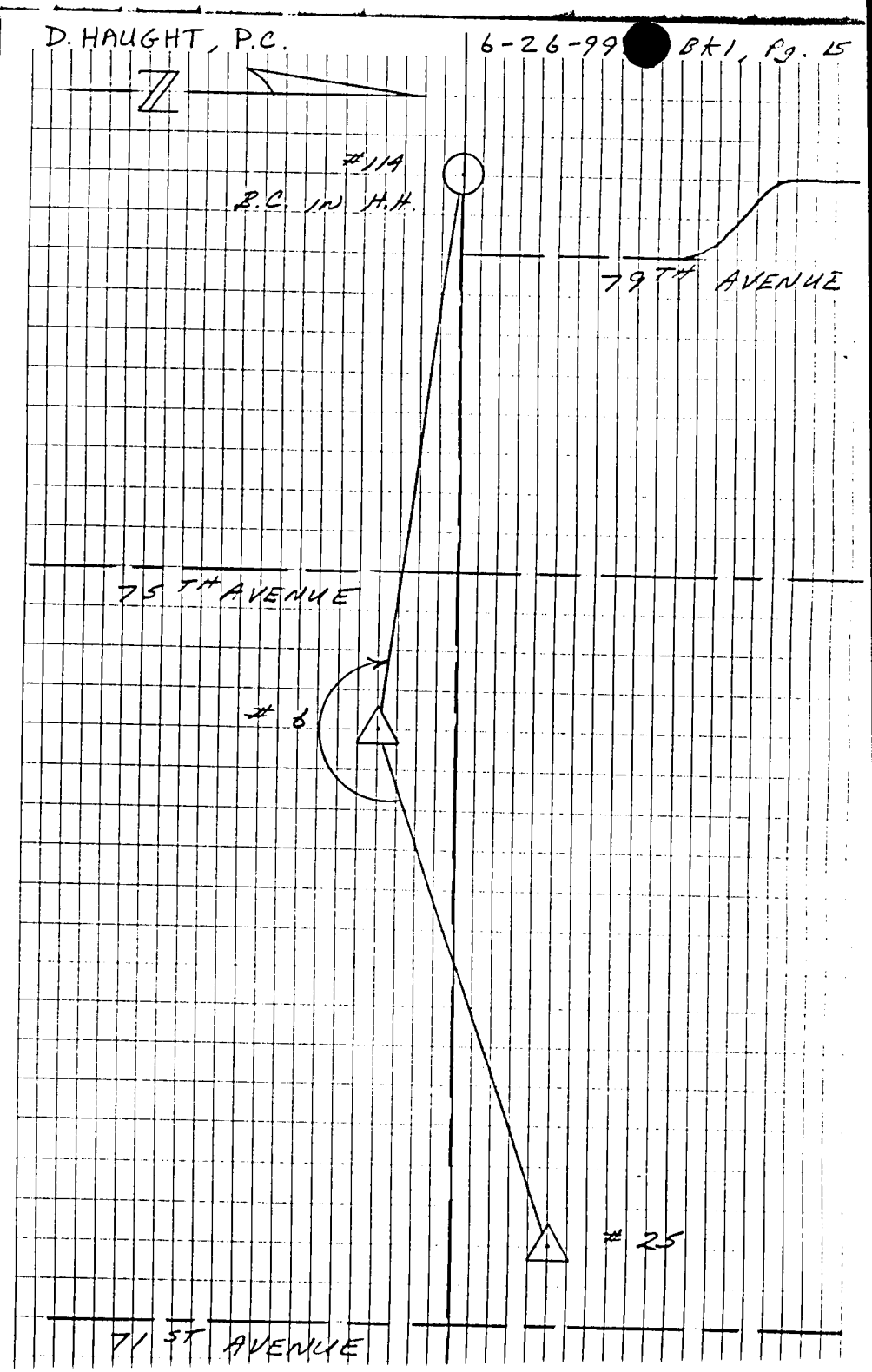


S.E. COR. SEC. 14 T. 2 N. R. 1 E.

| | | | | | |
|---|---|---|---|---|---|
| B/S | 25 | | | | |
| ∡ | 6 | | | | |
| F/S | 113 | | 75th AVE & CAMELBACK ROAD | | |
| | 0° 00' 00" | | | | |
| | 201 52' 55" | | | 127.580 | 127.580 |
| | 21 52' 35" | | | | |
| | 179° 59' 45" | | | | |
| M∡ | 201° 52' 52.5" | | | | |
| B/S | 113 | | | | |
| ∡ | 6 | | | | |
| F/S | 25 | | | | |
| | 0° 00' 00" | | | | |
| | 158° 07' 10" | | | | |
| | 338° 06' 50" | | | | |
| | 179° 59' 55" | | | | |
| M∡ | 158° 07' 02.5" | | | | |
| TOTAL | 359° 59' 55" | | | | |
| RT ∡ | 201° 52' 55" | | | | |
| H.D. | 127.580 | | | | |



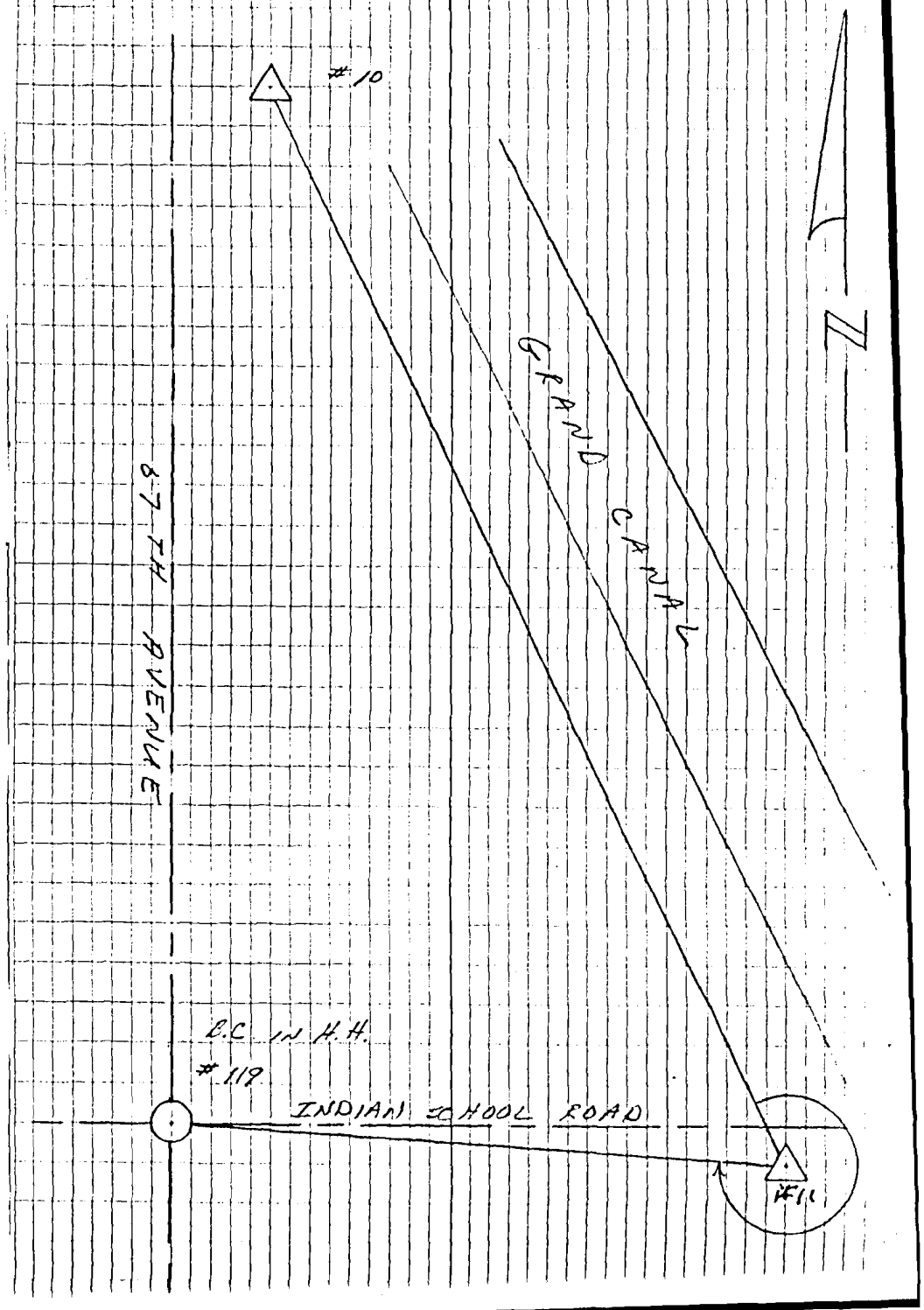
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S. 1/4 | C.R. | SEC. 14 | T. 2 N. | R. 1 E. | | | | |
| B/S | 25 | | | | | | | |
| ℄ | 6 | | | | | | | |
| F/S | 114 | | 79th AVE & CAMELBACK ROAD | | | | | |
| | 0°00'00" | | | | | | | |
| | 183°27'05" | | | 2740.445 | 2740.450 | | | |
| | 3°26'55" | | | | | | | |
| | 179°59'40" | | | | | | | |
| M℄ | 183°27'10" | | | | | | | |
| B/S | 114 | | | | | | | |
| ℄ | 6 | | | | | | | |
| F/S | 25 | | | | | | | |
| | 0°00'00" | | | | | | | |
| | 176°32'40" | | | | | | | |
| | 356°32'35" | | | | | | | |
| | 179°59'40" | | | | | | | |
| M℄ | 176°32'47.5" | | | | | | | |
| TOTAL | 359°59'57.5" | | | | | | | |
| RT ∠ | 183°27'11.25" | | | | | | | |
| H.D | 2740.445 | | | | | | | |



S.E. COR. SEC. 19 T.2N. R.2E.

| | | | |
|---|---|---|---|
| B/S | 10 | | |
| ⊼ | 11 | | |
| F/S | 119 | 67th AVE & INDIAN SCHOOL ROAD | |
| | 0°00'00" | | |
| | 309°57'20" | | R70.540 1270.540 |
| | 129°57'10" | | |
| | 179°59'55" | | |
| M∡ | 309°57'17.5" | | |
| B/S | 119 | | |
| ⊼ | 11 | | |
| F/S | 10 | | |
| | 0°00'00" | | |
| | 50°02'50" | | |
| | 230°02'45" | | |
| | 180°00'00" | | |
| M∡ | 50°02'47.5" | | |
| TOTAL | 360°00'05" | | |
| RT∡ | 309°57'15" | | |
| H.D. | 1270.540 | | |

D. HAUGHT, P.C. 6-26-99 BK. 1 PG. 16

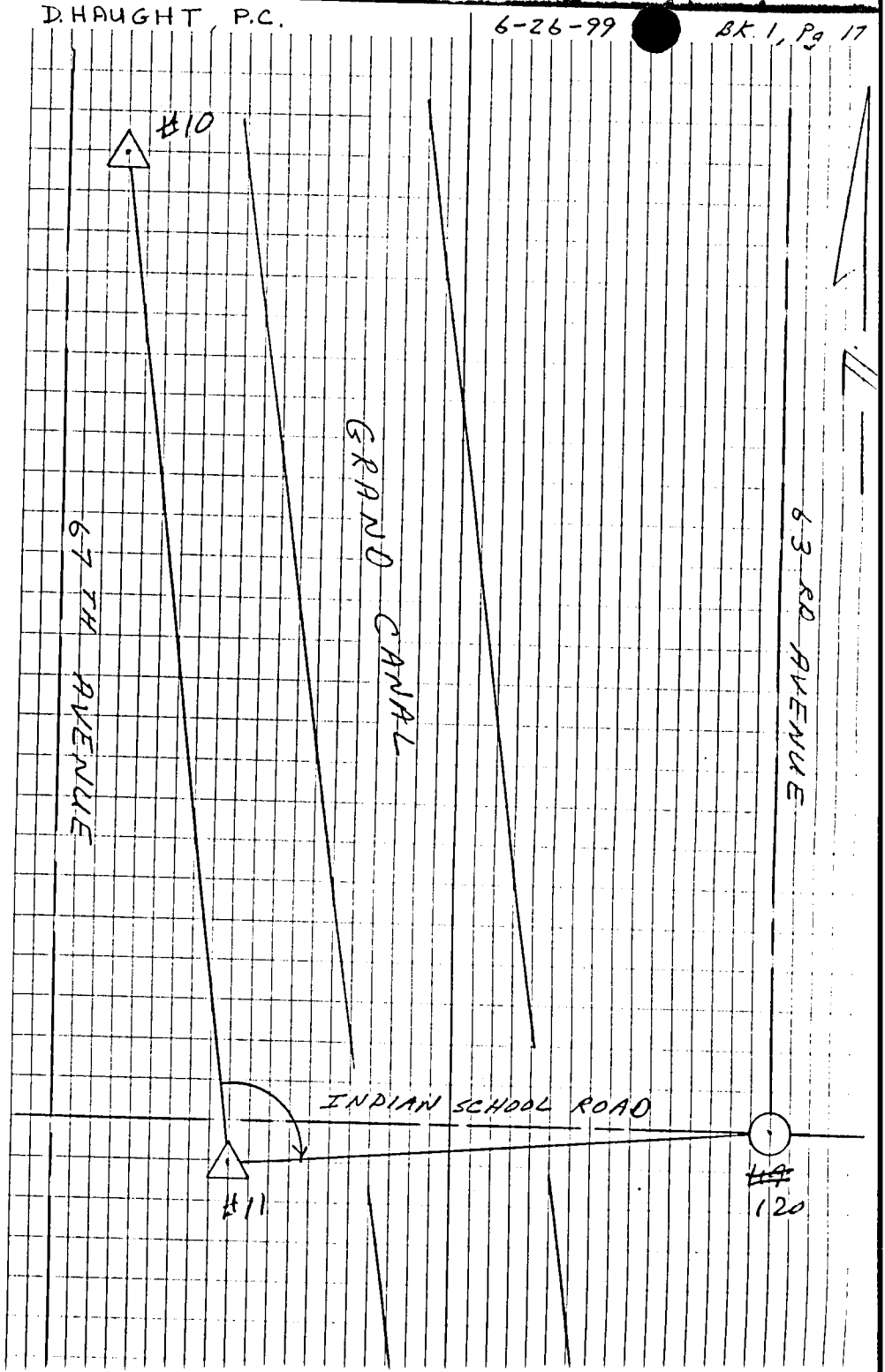


| S. 1/4 | COR. | Sec. 19 | T. 2 N. | R. 2 E. | | |
|---|---|---|---|---|---|---|
| B/S | 10 | | | | | |
| ℄ | 11 | | | | | |
| F/S | 120 | | 63rd Ave & INDIAN SCHOOL ROAD | | | |
| | | | | | | |
| | 0°00'00" | | | | | |
| | 126°00'40" | | | 1203.350 | 1202.350 | |
| | 306°00'30" | | | | | |
| | 179°59'45" | | | | | |
| M ℄ | 126°00'42.5" | | | | | |
| | | | | | | |
| B/S | 120 | | | | | |
| ℄ | 11 | | | | | |
| F/S | 10 | | | | | |
| | | | | | | |
| | 0°00'00" | | | | | |
| | 233°59'05" | | | | | |
| | 53°59'00" | | | | | |
| | 179°59'50" | | | | | |
| M ℄ | 233°59'07.5" | | | | | |
| | | | | | | |
| TOTAL | 359°59'50" | | | | | |
| | | | | | | |
| RT ℄ | 126°00'47.5" | | | | | |
| | | | | | | |
| H.D. | 1203.350 | | | | | |

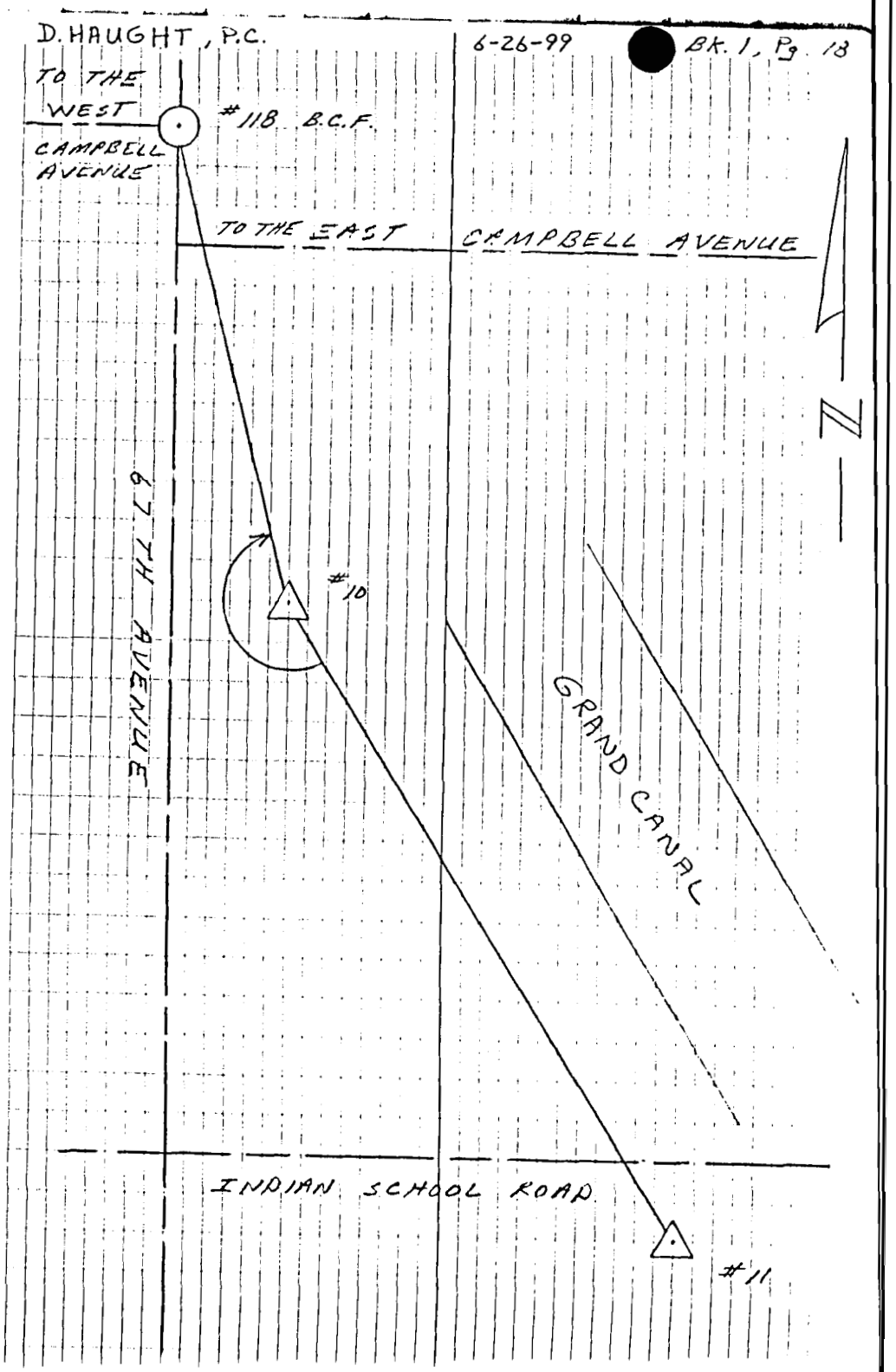
D. HAUGHT P.C.

6-26-99

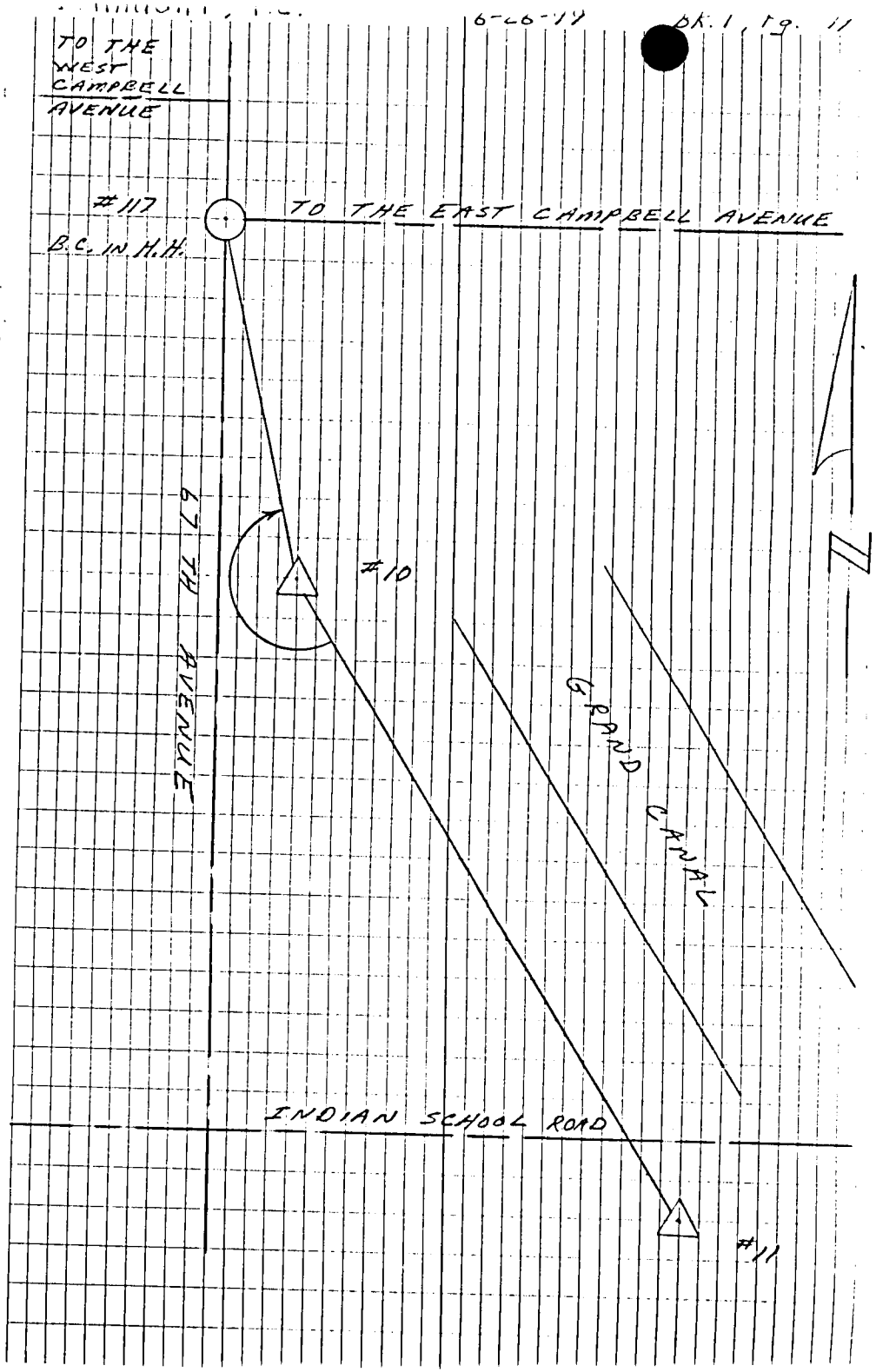
BK 1, Pg 17



| E. 1/4 | COR. | SEC. 24 | T. 2 N. | R. 1 E. | | | |
|---|---|---|---|---|---|---|---|
| B/S | 11 | | | | | | |
| ⊼ | 10 | | | | | | |
| F/S | 118 | B.C.F. | 67th AVE. & WEST CAMPBELL AVE. | | | | |
| | 0°00' | 00" | | | | | |
| | 217°43' | 25" | | 1302.560 | 1302.565 | | |
| | 37°43' | 10" 15" | | | | | |
| | 179°59' | 55" | | | | | |
| M ∡ | 217°43' | 20" | | | | | |
| B/S | 118 | | | | | | |
| ⊼ | 10 | | | | | | |
| F/S | 11 | | | | | | |
| | 0°00' | 00" | | | | | |
| | 142°16' | 40" | | | | | |
| | 322°16' | 30" 40" | | | | | |
| | 179°59' | 50" | | | | | |
| M ∡ | 142°16' | 40" | | | | | |
| TOTAL | 360°00' | 00" | | | | | |
| RT ∡ | 217°43' | 20" | | | | | |
| H.P. | 1302.560 | | | | | | |

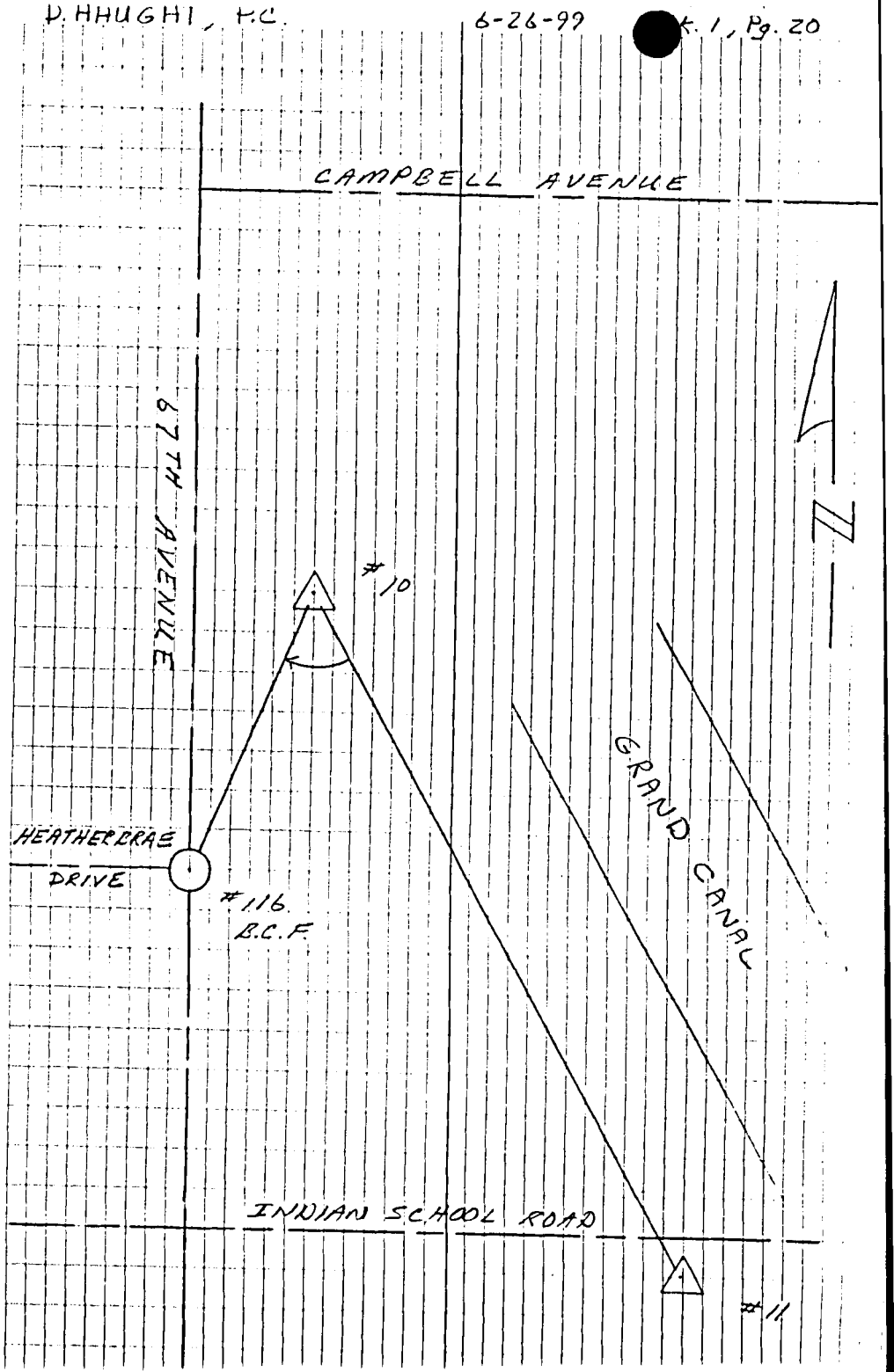


| | | | | | |
|---|---|---|---|---|---|
| B/S | 11 | | | | |
| T | 10 | | | | |
| F/S | 117 | H.H. | 67th AVE & EAST CAMPBELL AVE | | |
| | 0° 00' 00" | | | | |
| | 217 31 15 | | | 1150.045 | 1150.040 |
| | 37 30 55 | 31 05 | | | |
| | 179° 59' 50" | | | | |
| M ∠ | 217° 31' 10" | | | | |
| B/S | 117 | | | | |
| T | 10 | | | | |
| F/S | 11 | | | | |
| | 0° 00' 0.0" | | | | |
| | 142 28 55 | | | | |
| | 322 28 45 | | | | |
| | 179 59 55 | | | | |
| M ∠ | 142° 28' 52.5" | | | | |
| TOTAL | 360° 00' 02.5 | | | | |
| RT ∠ | 217° 31' 08.75" | | | | |
| H.D. | 1150.0425 | | | | |



D. HHUGHI, R.C. 6-26-99 K. 1, Pg. 20

| | | | | | | |
|---|---|---|---|---|---|---|
| 1/16 | | SEC. 24 | T. 2 N. | R. 1 E. | | |
| B/S | 11 | C.P. | | | | |
| Δ | 10 | C.P. | ON SIDE WALK | LAST SIDE 67TH AVE ON CANAL BRIDGE | | |
| F/S | 116 | BCF | 67th | AVE & | HEATHERBRAE | DR. |
| | 0°00' | 00" | | | | |
| | 50 41 | 05 | | 177.165 | 177.170 | |
| | 230 41 | 00 | | | | |
| | 180 00 | 00 | | | | |
| M Δ | 50° 41' | 02.5" | | | | |
| B/S | 116 | | | | | |
| Π | 10 | | | | | |
| F/S | 11 | | | | | |
| | 0°00' | 00" | | | | |
| | 309 19 | 00 | | | | |
| | 129 18 | 50 | | | | |
| | 180 00 | 00 | | | | |
| M Δ | 309° 18' | 55" | | | | |
| TOTAL | 359° 59' | 57.5" | | | | |
| RT Δ | 50° 41' | 01.25" | | | | |
| H.D. | 177.1675 | | | | | |

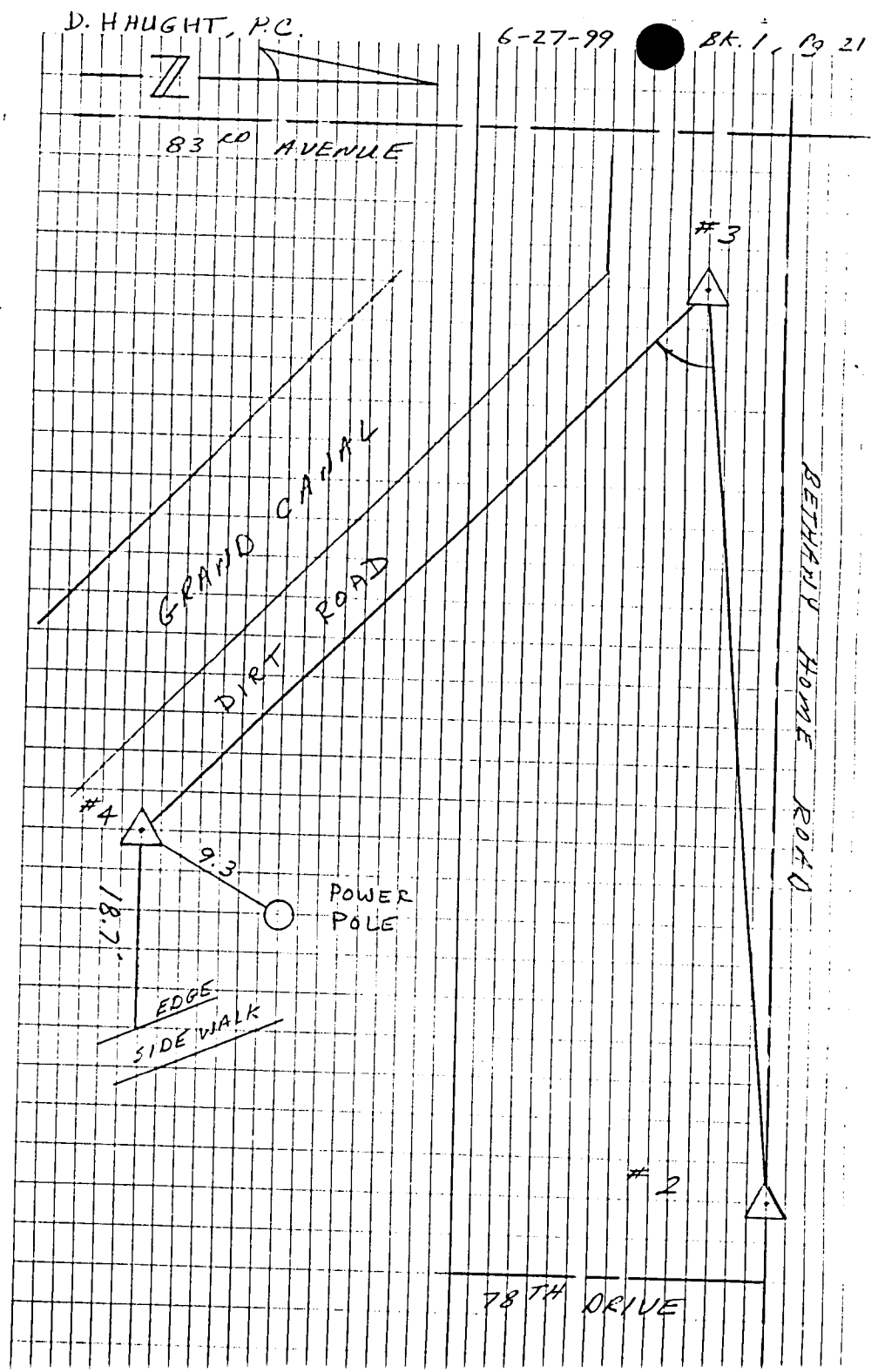


HORIZONTAL CONTROL

| | | B.C. IN H.H. | N. 1/4 Cor. | Sec. 14 | T 2 N. | R 1 E. |
|---|---|---|---|---|---|---|
| B/S | 2 | | | | | |
| ∡ | 3 | 1/2" I.R. | | | | |
| F/S | 4 | 1/2" I.R. | | | | |
| | 0° 00' 00" | | | | | |
| | 47° 53' 10" | | | 3382.530 | 3382.530 | |
| | 227° 53' 00" | | | | | |
| | 179° 59' 45" | | | | | |
| M∡ | 47° 53' 12.5" | | | | | |
| B/S | 4 | | | | | |
| ∡ | 3 | | | | | |
| F/S | 2 | | | | | |
| | 0° 00' 00" | | | | | |
| | 312° 06' 45" | | | | | |
| | 132° 06' 35" | | | | | |
| | 179° 59' 50" | | | | | |
| M∡ | 312° 06' 45" | | | | | |
| TOTAL | 359° 59' 57.5" | | | | | |
| RT ∡ | 47° 53' 11.25" | 10.51" | | | | |
| H.O. | 3382.530 | | | | | |

D. HAUGHT, P.C.

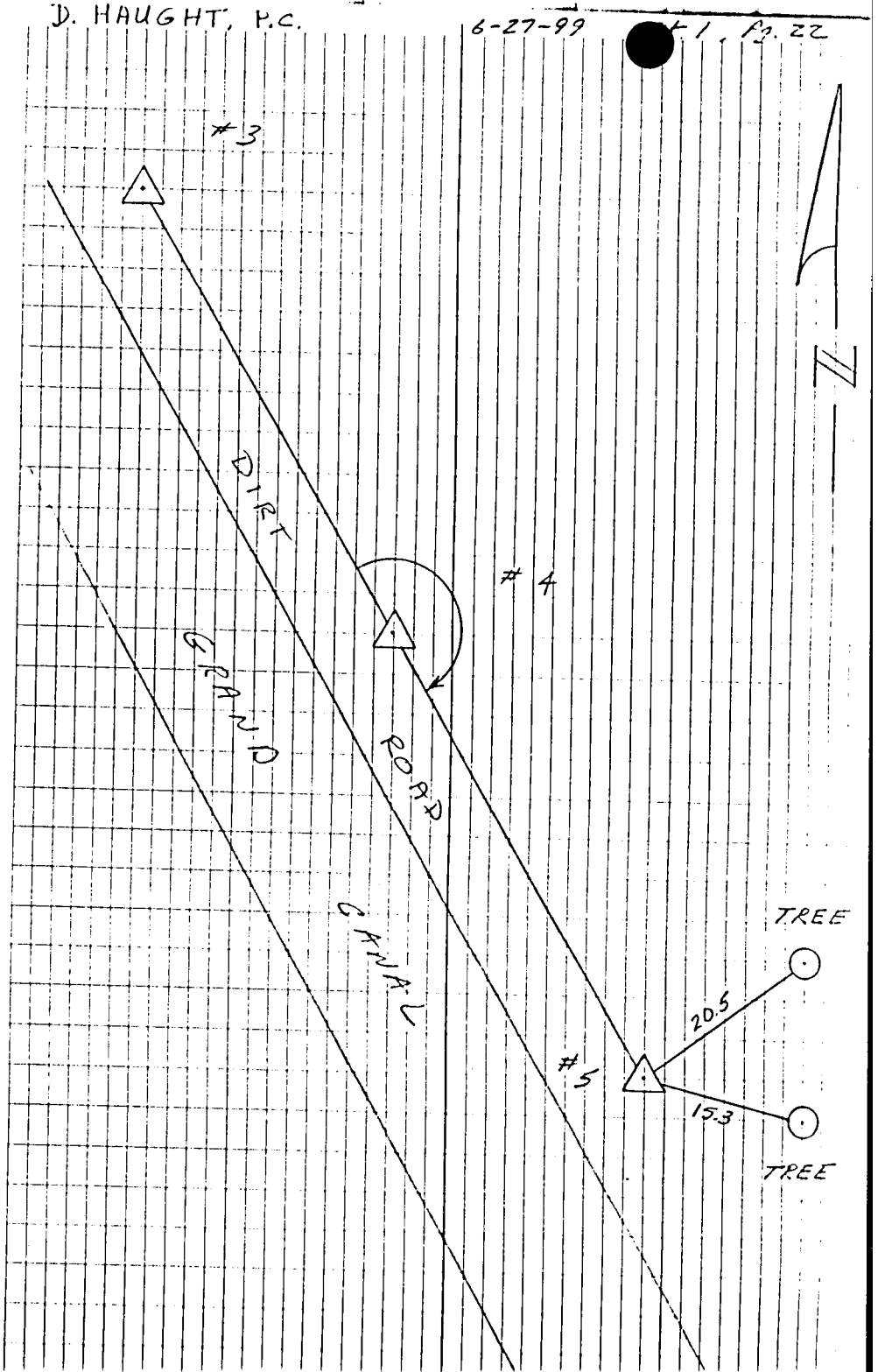
6-27-99 BK. 1, Pg 21



HORIZONTAL CONTROL

| | | | | |
|---|---|---|---|---|
| B/S | 3 | ½" I.R. | | |
| ∡ | 4 | ½" I.R. | | |
| F/S | 5 | ½" I.R. | | |
| | 0° 00' 00" | | | |
| | 180° 11' 20" | | 2151.930 | 2151.080 |
| | 0° 11' 15" | | | |
| | 179° 59' 55" | | | |
| M ∡ | 180° 11' 20" | | | |
| B/S | 5 | | | |
| ∡ | 4 | | | |
| F/S | 3 | | | |
| | 0° 00' 00" | | | |
| | 179° 48' 40" | | | |
| | 359° 48' 35" | | | |
| | 179° 59' 50" | | | |
| M ∡ | 179° 48' 42.5" | | | |
| TOTAL | 359° 00' 02.5" | | | |
| RT ∡ | 180° 11' 18.75" | 18.01" | | |
| H.D. | 2151.080 | | | |

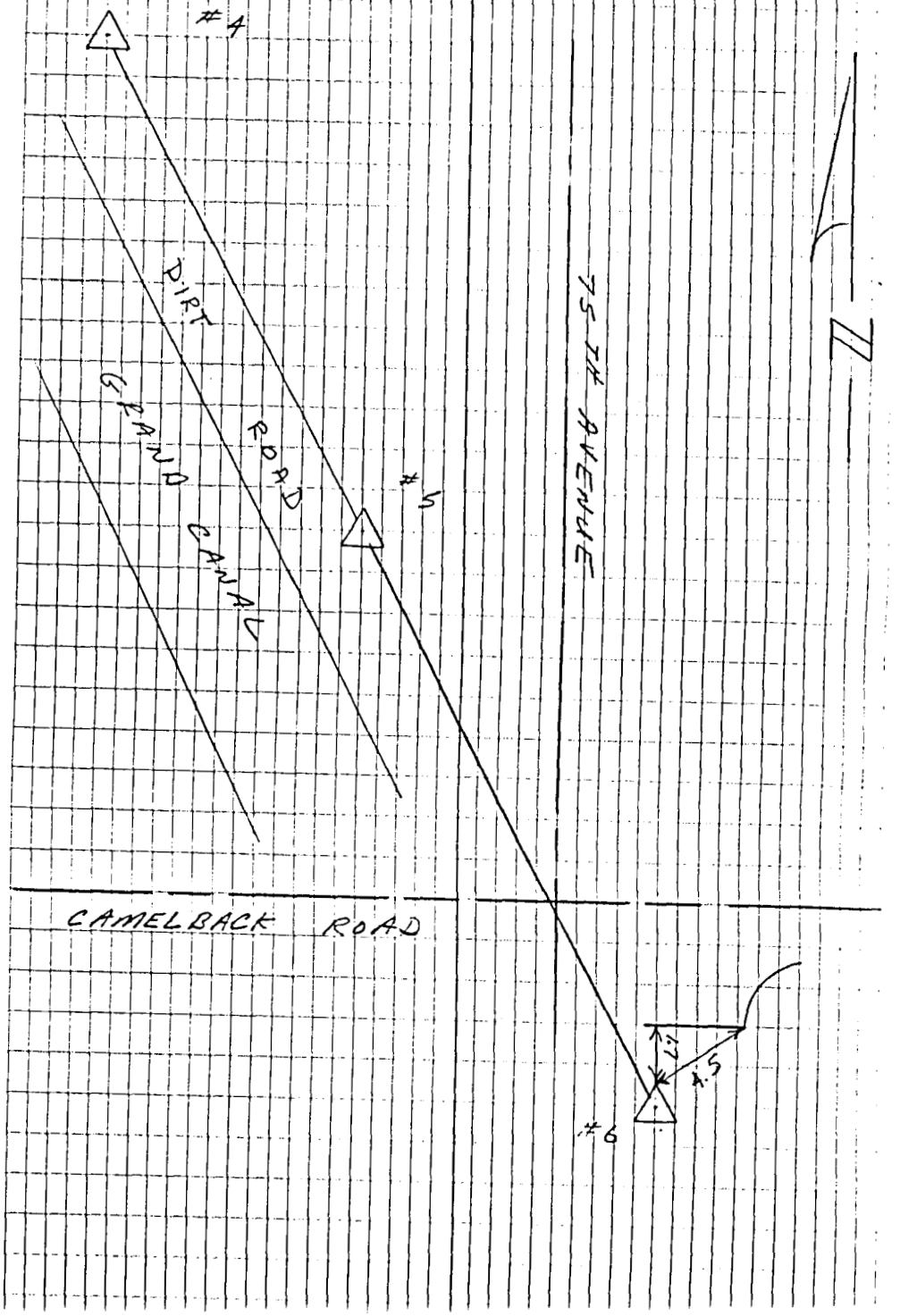
D. HAUGHT, P.C. 6-27-99 F1, Pg. 22



# HORIZONTAL CONTROL

D. HAUGHT, P.C. 6-27-99 1, Pg. 23

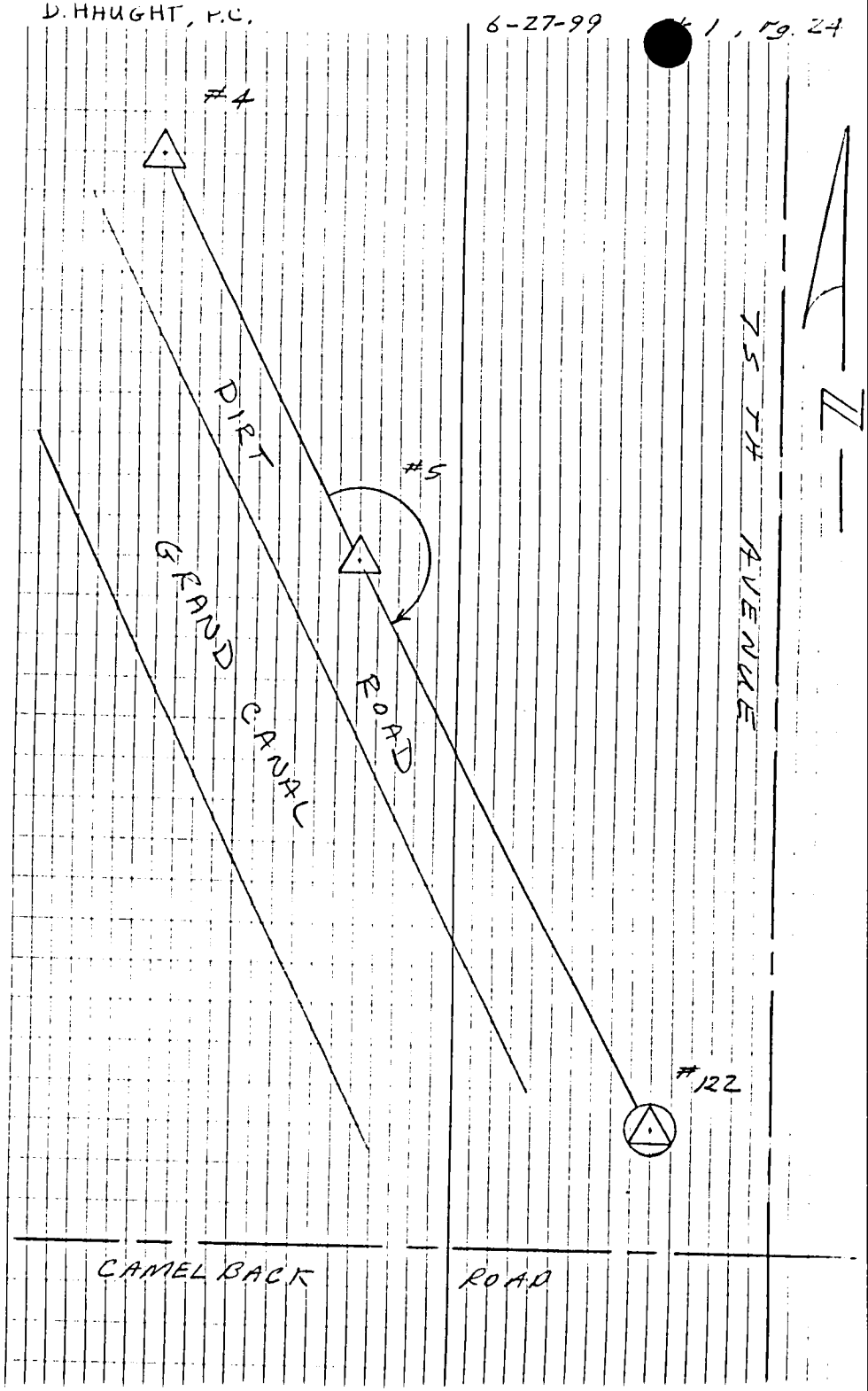
| | | | | | |
|---|---|---|---|---|---|
| B/S | 4 | ½" I.R. | | | |
| Δ | 5 | ½" I.R. | | | |
| F/S | 6 | ½" I.R. | | | |
| | 0° 00' 00" | | | | |
| | 182° 48' 45" | | 1564.725 | 1564.730 | |
| | 2° 48' 55" | | | | |
| | 180° 00' 00" | | | | |
| M Δ | 182° 48' 50" | | | | |
| B/S | 6 | | | | |
| Δ | 5 | | | | |
| F/S | 4 | | | | |
| | 0° 00' 00" | | | | |
| | 177° 11' 15" | | | | |
| | 357° 10' 55" 60 | | | | |
| | 179° 59' 55" | | | | |
| M Δ | 177° 11' 07.5" | | | | |
| TOTAL | 359° 59' 57.5" | | | | |
| RT Δ | 182° 48' 48.75" | 48.01" | | | |
| H.O. | 1564.7275 | | | | |



HORIZONTAL CONTROL

| | | | | | |
|---|---|---|---|---|---|
| B/S | 4 | ½" I.R. | | | |
| ⊼ | 5 | ½" I.R. | | | |
| F/S | 122 | "BACK" | TRI-STATION | | |
| | 0° 00' 00" | | | | |
| | 180° 56' 25" | | | 1250.585 | 1250.585 |
| | 0° 56' 30" 40 | | | | |
| | 179° 59' 50" | | | | |
| M∡ | 180° 56' 32.5" | | | | |
| B/S | 122 | | | | |
| ⊼ | 5 | | | | |
| F/S | 4 | | | | |
| | 0° 00' 00" | | | | |
| | 179° 03' 40" | | | | |
| | 359° 03' 20" 30" | | | | |
| | 179° 59' 50" | | | | |
| M∡ | 179° 03' 35" | | | | |
| TOTAL | 360° 00' 07.5" | | | | |
| RT ∡ | 180° 56' 28.75" | | | | |
| H.D. | 1250.585 | | | | |

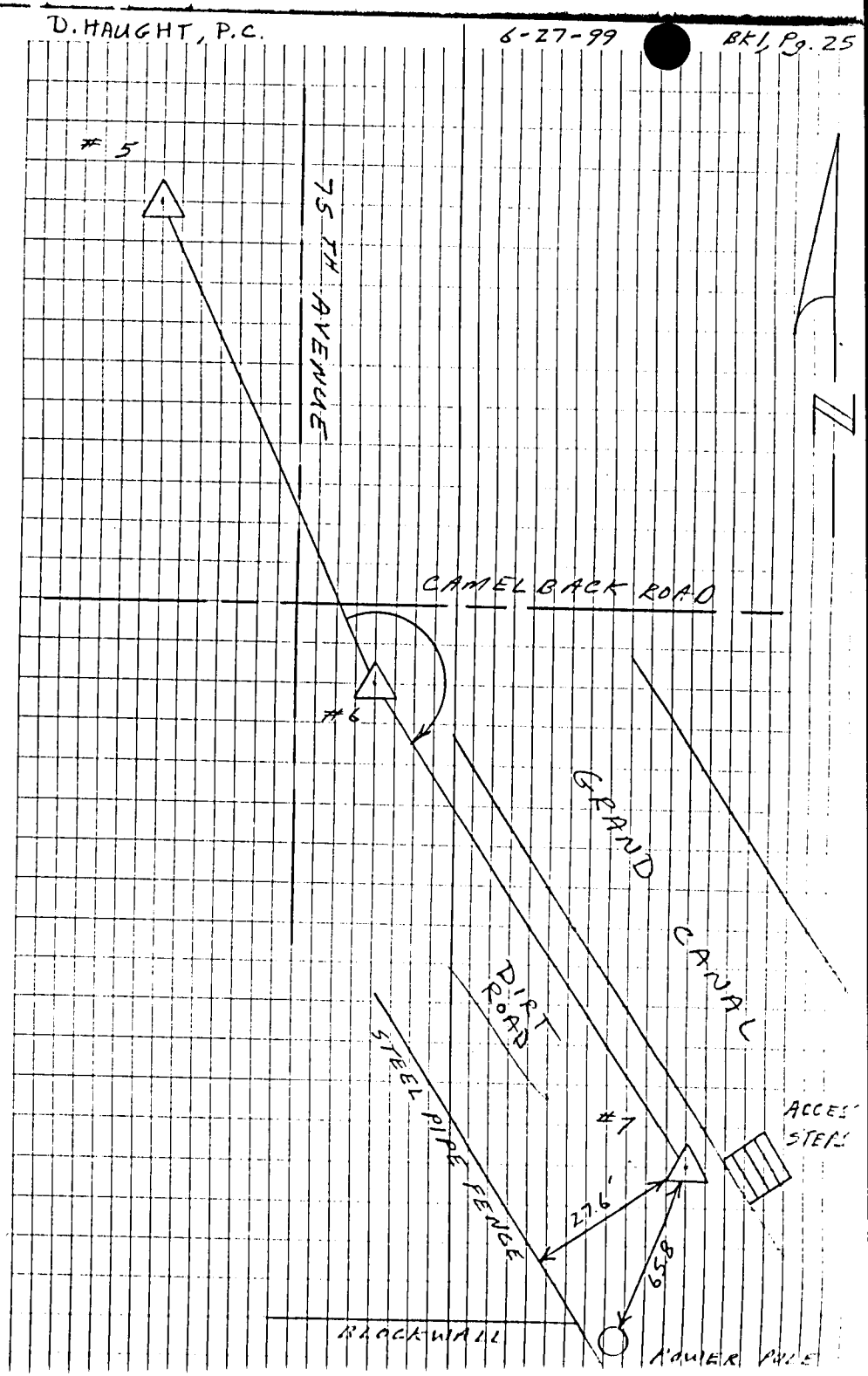
D. HAUGHT, P.C. 6-27-99 #1, Pg. 24



## HORIZONTAL CONTROL

| | | | | |
|---|---|---|---|---|
| B/S | | ½" I.R. | | |
| ℄ | 6 | ½" I.R. | | |
| F/S | 7 | ½" I.R. | | |
| | | | | |
| | 0° 00' 00" | | | |
| | 177° 16' 10" | | 2123.130 | 2123.130 |
| | 357° 16' 00" | | | |
| | 179° 59' 50" | | | |
| M℄ | 177° 16' 10" | | | |
| | | | | |
| B/S | 7 | | | |
| ℄ | 6 | | | |
| F/S | 5 | | | |
| | | | | |
| | 0° 00' 00" | | | |
| | 182° 44' 00" | | | |
| | 2° 43' 45" 50" | | | |
| | 179° 59' 55" | | | |
| M℄ | 182° 43' 55" | | | |
| | | | | |
| TOTAL | 360° 00' 05" | | | |
| | | | | |
| RT ℄ | 177° 16' 07.5" | 06.76" | | |
| | | | | |
| H.D. | 2123.130 | | | |

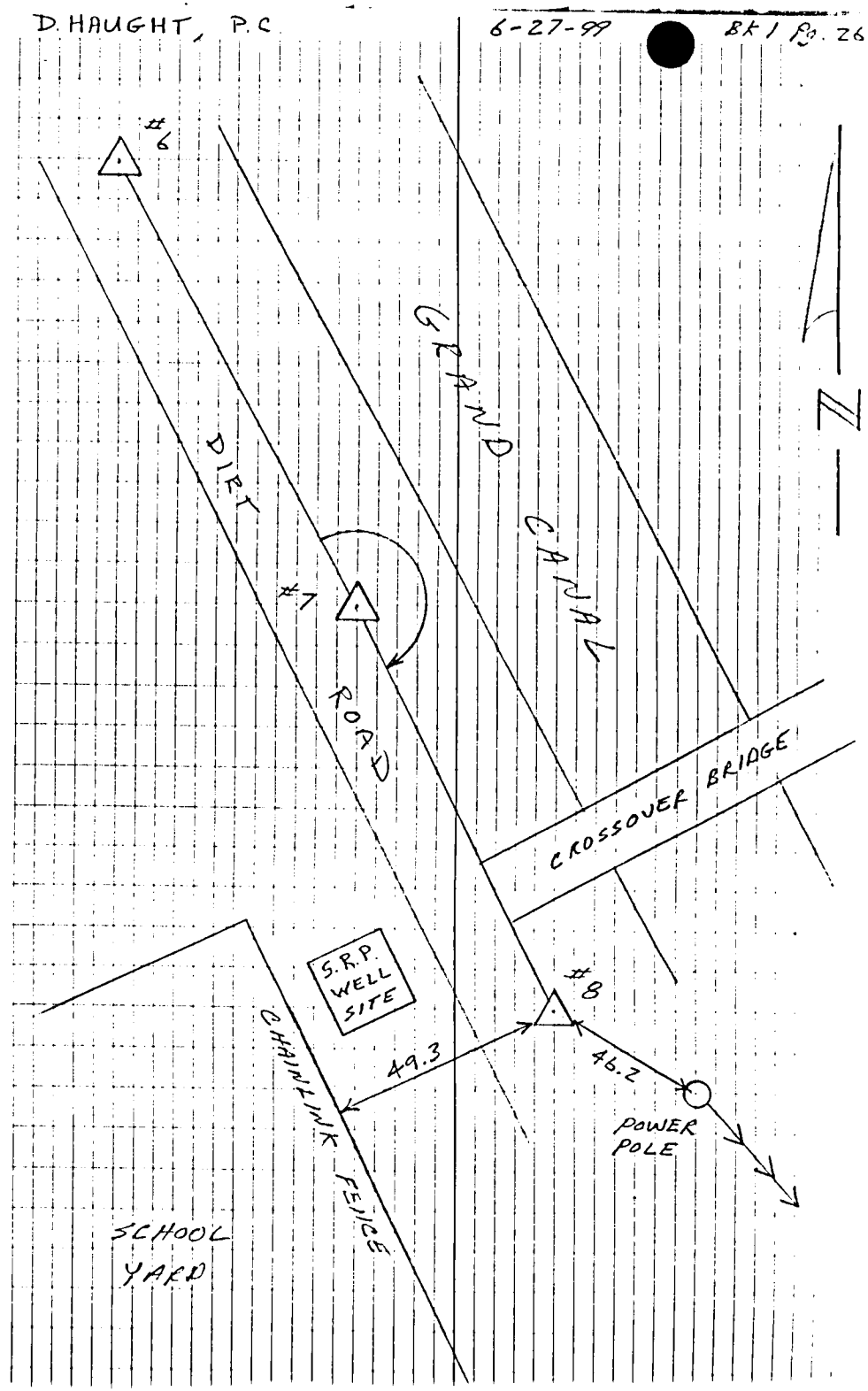
D. HAUGHT, P.C. 6-27-99 BK1, Pg. 25



HORIZONTAL CONTROL

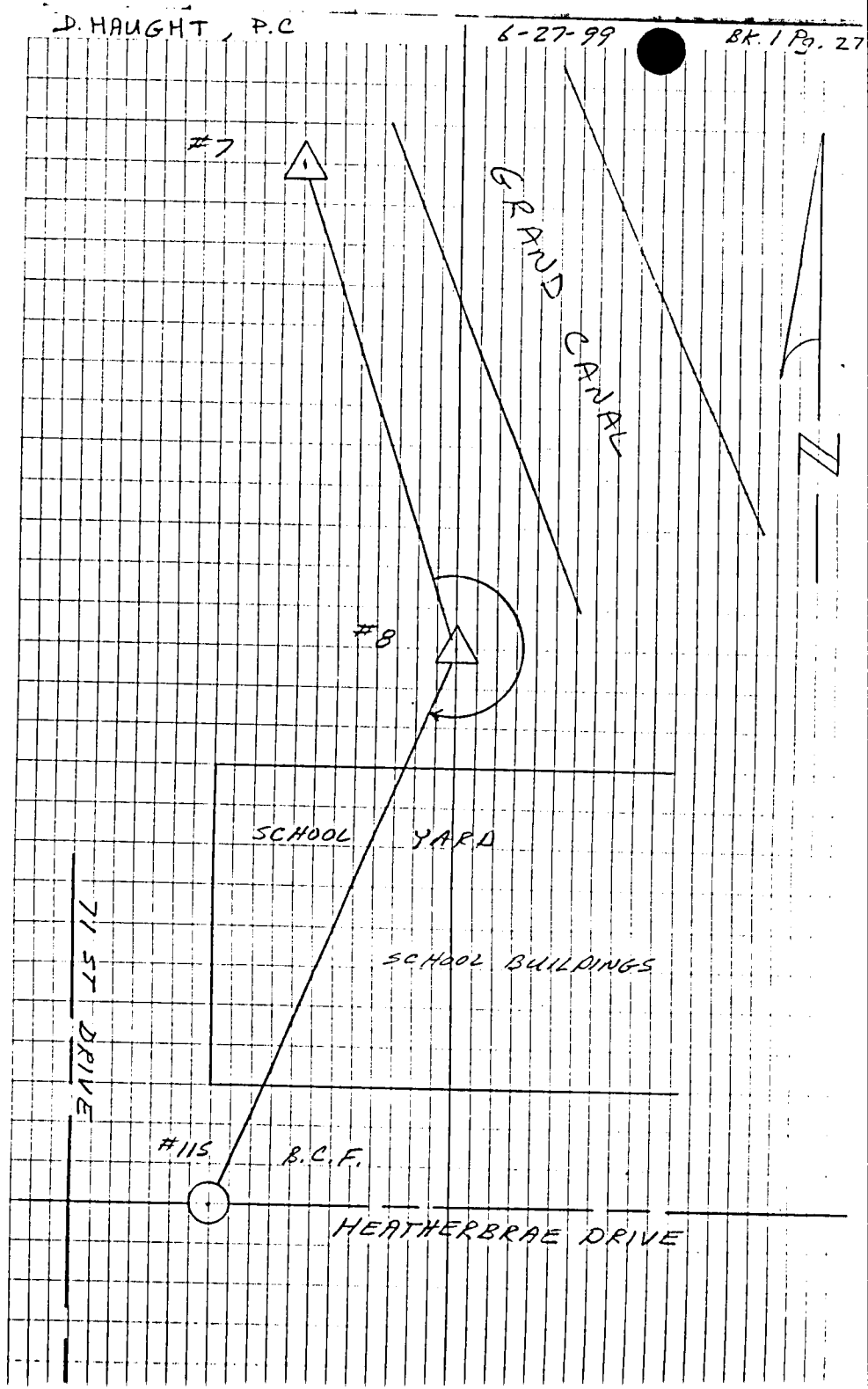
| | | | | |
|---|---|---|---|---|
| B/S | 6 | 1/2" I.P. | | |
| ∠ | 7 | 1/2" I.K. | | |
| F/S | 8 | 1/2" I.R. | | |
| | | | | |
| | 0° 00' 00" | | | |
| | 171° 47' 10" | | 1446.850 | 1446.850 |
| | 351° 47' 05" "10" | | | |
| | 179° 59' 55" | | | |
| M ∠ | 171° 47' 10" | | | |
| | | | | |
| B/S | 8 | | | |
| ∠ | 7 | | | |
| F/S | 6 | | | |
| | | | | |
| | 0° 00' 00" | | | |
| | 188° 12' 55" | | | |
| | 8° 12' 50" "55 | | | |
| | 179° 59' 55" | | | |
| M ∠ | 188° 12' 55" | | | |
| | | | | |
| TOTAL | 360° 00' 05" | | | |
| | | | | |
| RT ∠ | 171° 47' 07.5" | 06.76" | | |
| | | | | |
| H.P. | 1446.850 | | | |

D. HAUGHT, P.C. 6-27-99 Bk 1 Pg. 26



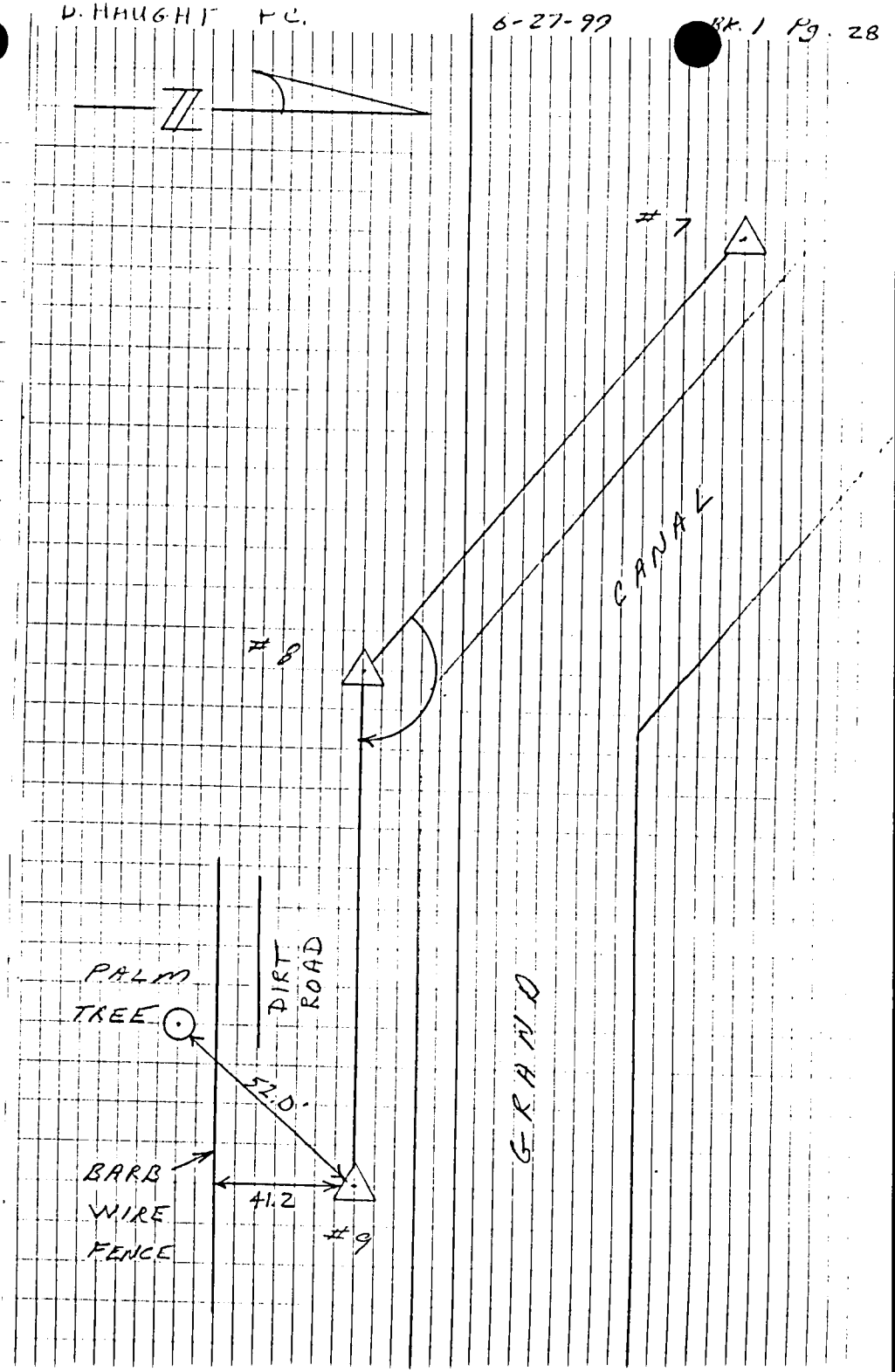
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1/16 | COR. | SEC. 24 | T. 2 N | R. 1 E. | | | |
| B/S | 7 | ½" I.R. | | | | | |
| ∡ | 8 | ½" I.R. | | | | | |
| F/S | 115 | B.C.F. | ON HEATHERBRAE, NEAR 71st Ave. | | | | |
| | 0° 00' | 00" | | | | | |
| | 233° 10' | 00" | | | 1362.670 | 1362.665 | |
| | 53° 09' | 50" 55" | | | | | |
| | 179° 59' | 55" | | | | | |
| M ∡ | 233° 09' | 57.5" | | | | | |
| B/S | 115 | | | | | | |
| ∡ | 8 | | | | | | |
| F/S | 7 | | | | | | |
| | 0° 00' | 00" | | | | | |
| | 126° 50' | 00" | | | | | |
| | 306° 49' | 55" 50' 00" | | | | | |
| | 179° 59' | 55" | | | | | |
| M ∡ | 126° 50' | 00" | | | | | |
| TOTAL | 359° 59' | 57.5" | | | | | |
| RT ∡ | 233° 09' | 58.75" | 58.01" | | | | |

D. HAUGHT, P.C. 6-27-99 BK. 1 PG. 27



D. HAUGHT P.C. 6-27-99 Bk. 1 Pg. 28

| | | | | | |
|---|---|---|---|---|---|
| B/S | 7 | ½" I.R. | | | |
| ↑ | 8 | ½" I.R. | | | |
| F/S | 9 | ½" I.R. | | | |
| | | | | | |
| | 0° 00' 00" | | | | |
| | 160° 05' 45" | | | 1868.600 | 1868.600 |
| | 340° 05' 40" 50" | | | | |
| | 179° 59' 50" | | | | |
| MZ | 160° 05' 47.5" | | | | |
| | | | | | |
| B/S | 9 | | | | |
| ↑ | 8 | | | | |
| F/S | 7 | | | | |
| | | | | | |
| | 0° 00' 00" | | | | |
| | 199° 54' 15" | | | | |
| | 19° 54' 00" 10" | | | | |
| | 179° 59' 50" | | | | |
| MZ | 199° 54' 12.5" | | | | |
| | | | | | |
| Σ TOTAL | 360° 00' 00" | | | | |
| | | | | | |
| k RT Z | 160° 05' 47.5" | | 46.76 | | |
| | | | | | |
| H.D. | 1868.600 | | | | |

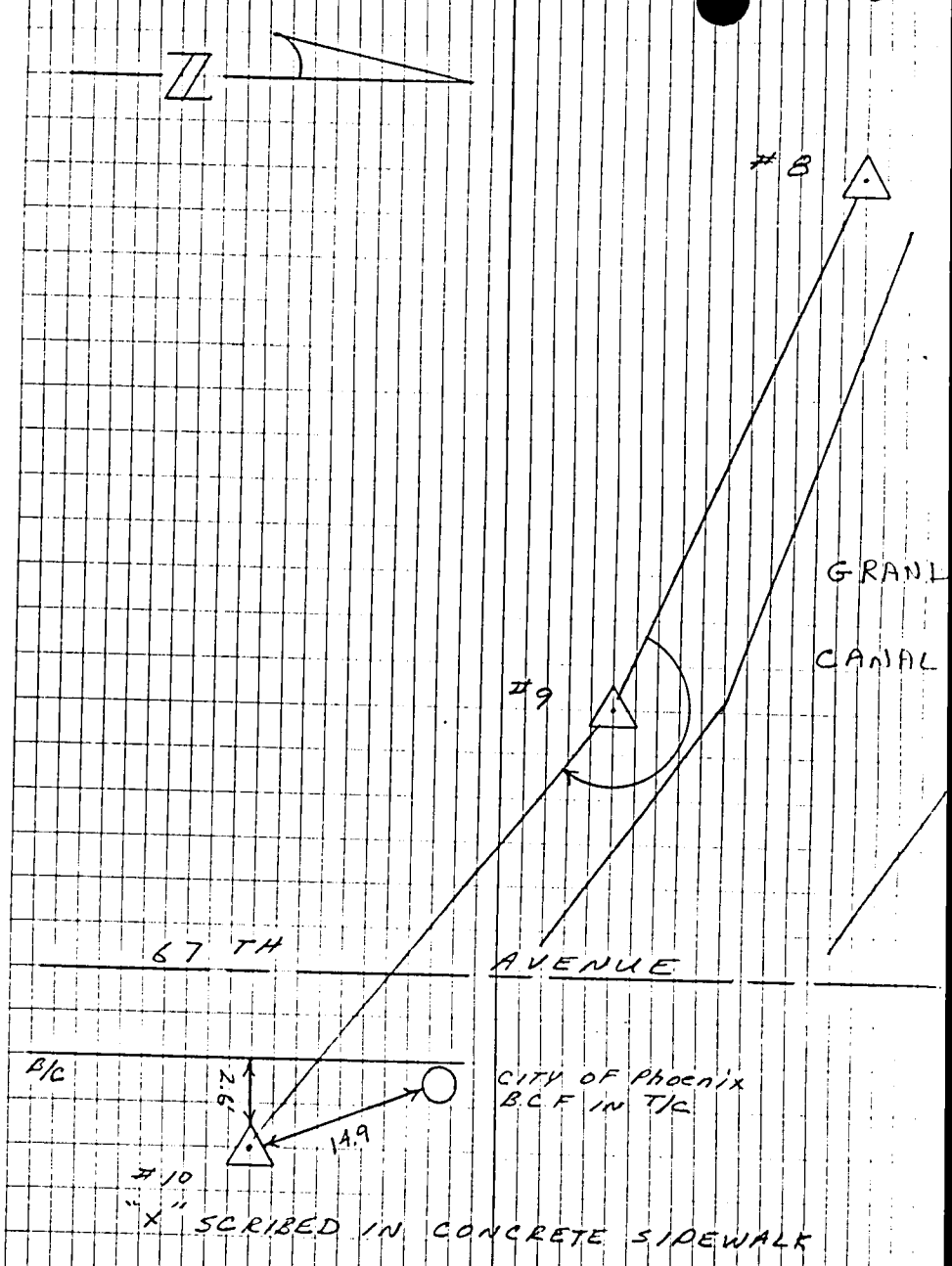


# HORIZONTAL CONTROL

| | | | | |
|---|---|---|---|---|
| B/S | 8 | ½" IR | | |
| ⊼ | 9 | ½" I.R | | |
| F/S | 10 | "X" ON CONCRETE SIDEWALK | | |
| | 0° 00' 00" | | | |
| | 193° 06' 10" | | 1015.650 | 1015.645 |
| | 13° 06' 00" 05" | | | |
| | 179° 59' 55" | | | |
| M ⊼ | 193° 06' 07.5" | | | |
| B/S | 10 | | | |
| ⊼ | 9 | | | |
| F/S | 8 | | | |
| | 0° 00' 00" | | | |
| | 166° 53' 50" | | | |
| | 346° 53' 45" 60" | | | |
| | 179° 59' 45" | | | |
| M ⊼ | 166° 53' 55" | | | |
| TOTAL | 360° 00' 02.5" | | | |
| RT ∡ | 193° 06' 06.25" | 05.51" | | |
| H.P. | 1015.650 | | | |

D. HAUGHT P.C.

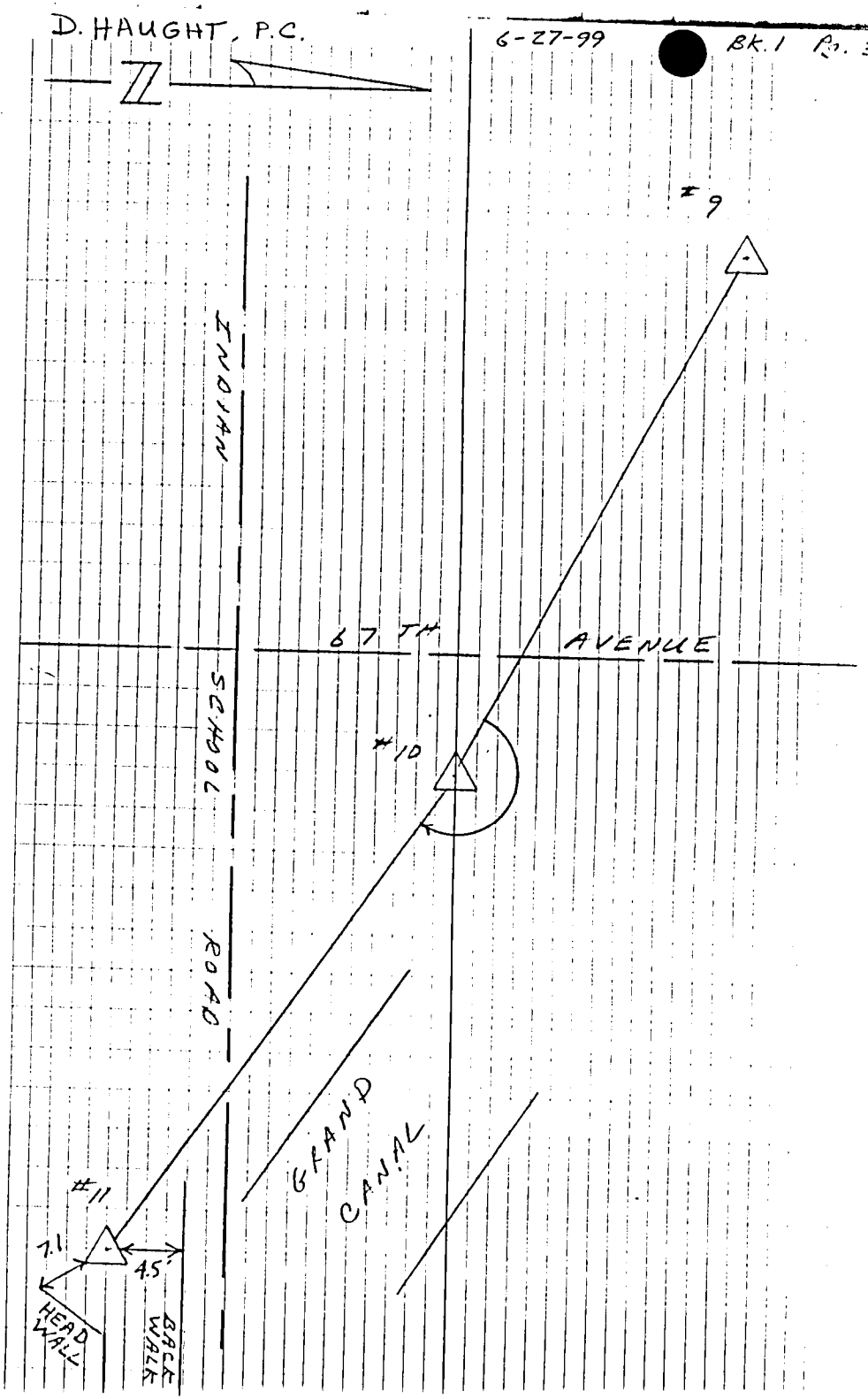
6-27-99 Bk. 1 Pg. 2



D. HAUGHT, P.C. 6-27-99 BK. 1 PG. 30

HORIZONTAL CONTROL

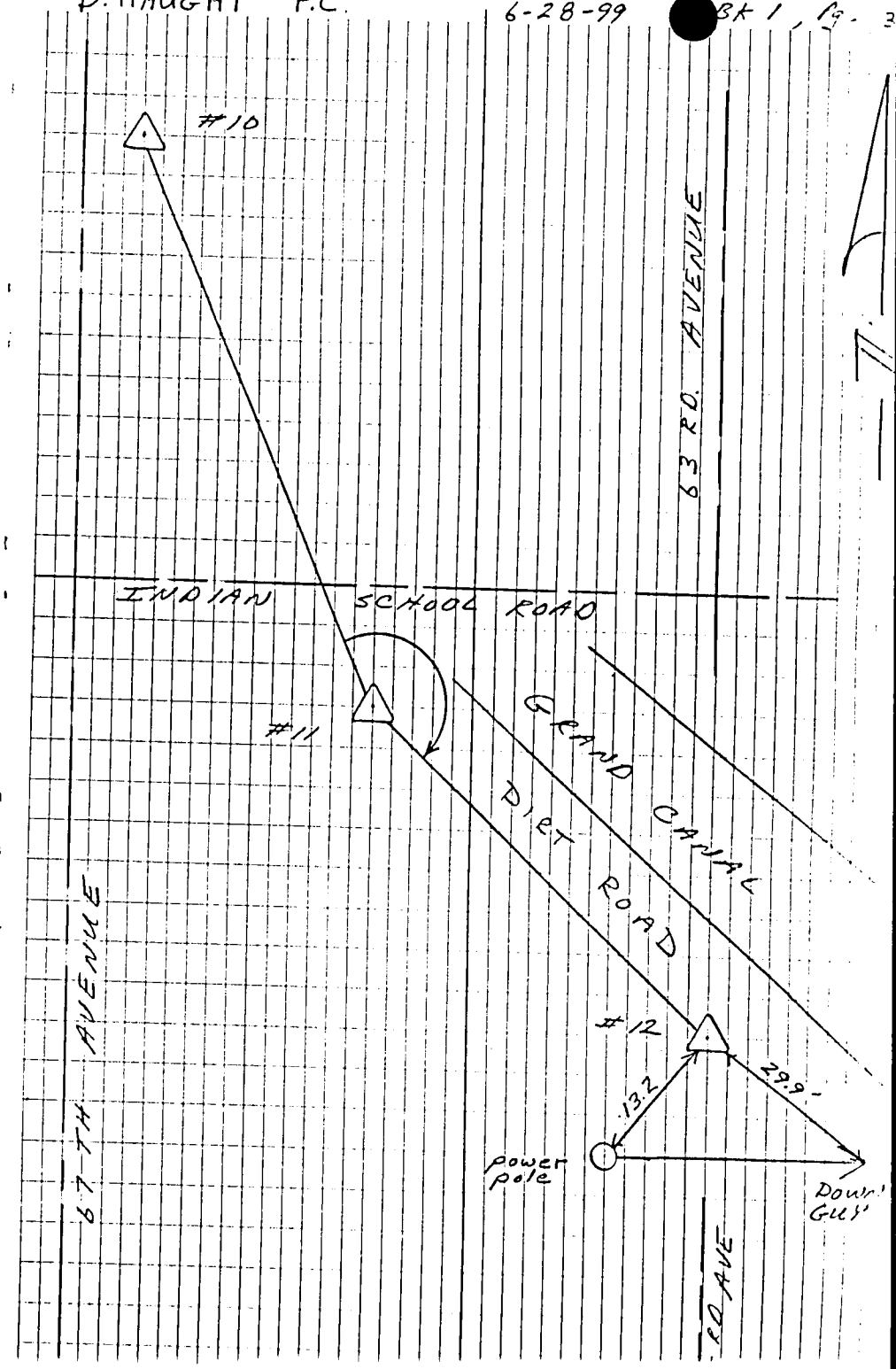
| | | | | | |
|---|---|---|---|---|---|
| B/S | 9 | 1/2" I.R. | | | |
| T | 10 | "X" ON CONCRETE SIDEWALK | | | |
| F/S | 11 | LARGE NAIL | | | |
| | | | | | |
| | 0° 00' 00" | | | | |
| | 198° 45' 20" | | | 1952.405 | 1952.405 |
| | 18° 45' 20"30" | | | | |
| | 179° 59' 50" | | | | |
| M ∡ | 198° 45' 25" | | | | |
| | | | | | |
| B/S | 11 | | | | |
| T | 10 | | | | |
| F/S | 9 | | | | |
| | | | | | |
| | 0° 00' 00" | | | | |
| | 161° 14' 30" | | | | |
| | 341° 14' 20"25 | | | | |
| | 179° 59' 55" | | | | |
| M ∡ | 161° 14' 27.5" | | | | |
| | | | | | |
| TOTAL | 359° 59' 52.5" | | | | |
| | | | | | |
| RT ∡ | 198° 45' 21.25" | | 20.51" | | |
| | | | | | |
| H.D. | 1952.405 | | | | |



## HORIZONTAL CONTROL

| | | | | |
|---|---|---|---|---|
| B/S | 10 | "X" ON SIDEWALK | | |
| ⊼ | 11 | ½" I.R. | | |
| F/S | 12 | ½" I.R. | | |
| | | | | |
| | 0° 00' 00" | | | |
| | 173° 47' 15" | | 1707.320 | 1707.320 |
| | 353° 47' 10" | | | |
| | 180° 00' 00" | | | |
| M⊼ | 173° 47' 12.5" | | | |
| | | | | |
| B/S | 12 | | | |
| ⊼ | 11 | | | |
| F/S | 10 | | | |
| | | | | |
| | 0° 00' 00" | | | |
| | 186° 12' 50" | | | |
| | 6° 12' 45" | | | |
| | 179° 59' 55" | | | |
| M⊼ | 186° 12' 50" | | | |
| | | | | |
| TOTAL | 360° 00' 02.5" | | | |
| | | | | |
| RT ∡ | 173° 47' 11.25" | 10.51" | | |
| | | | | |
| H.D. | 1707.320 | | | |

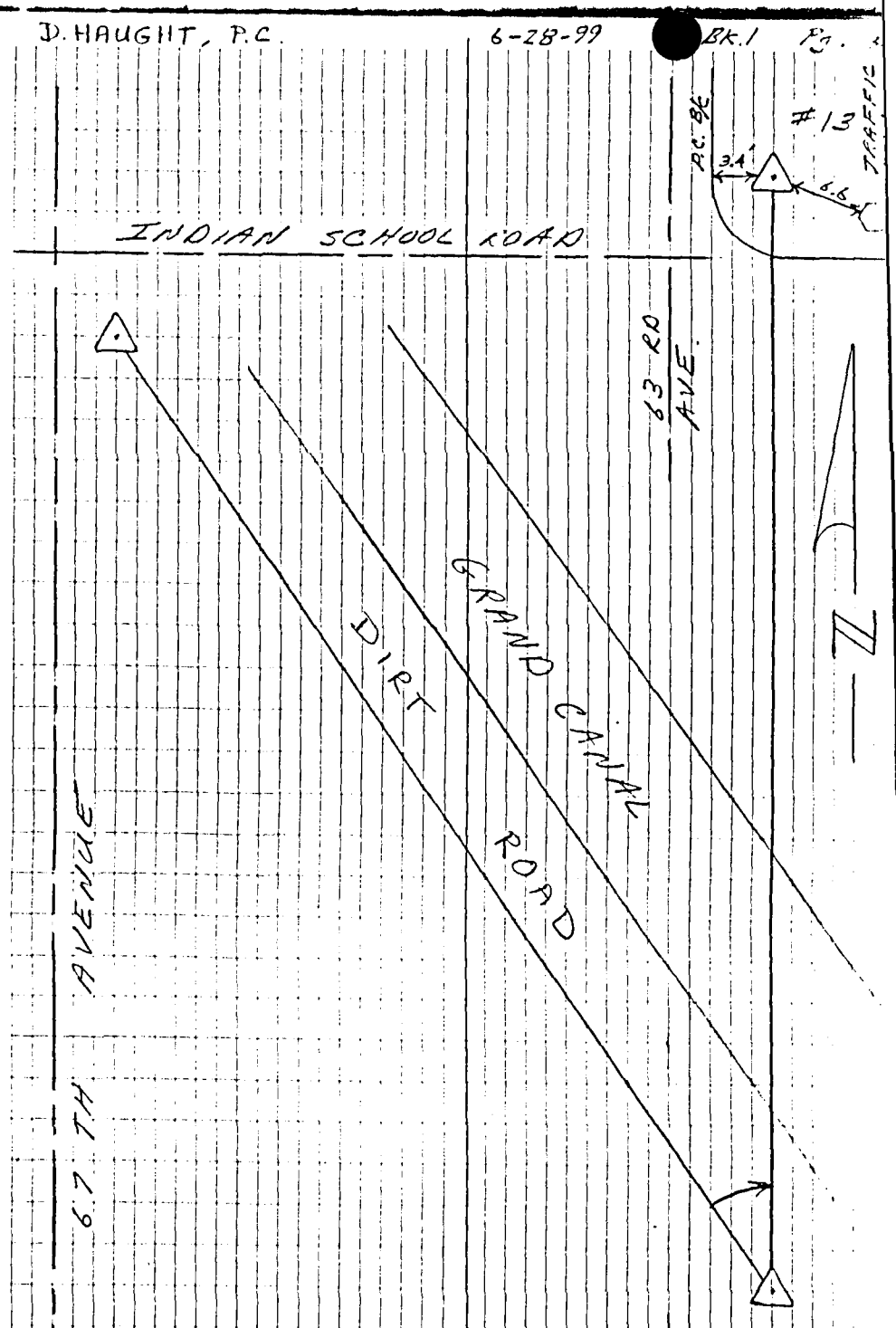
D. HAUGHT P.C. 6-28-99 BK 1, Pg. 3



HORIZONTAL CONTROL

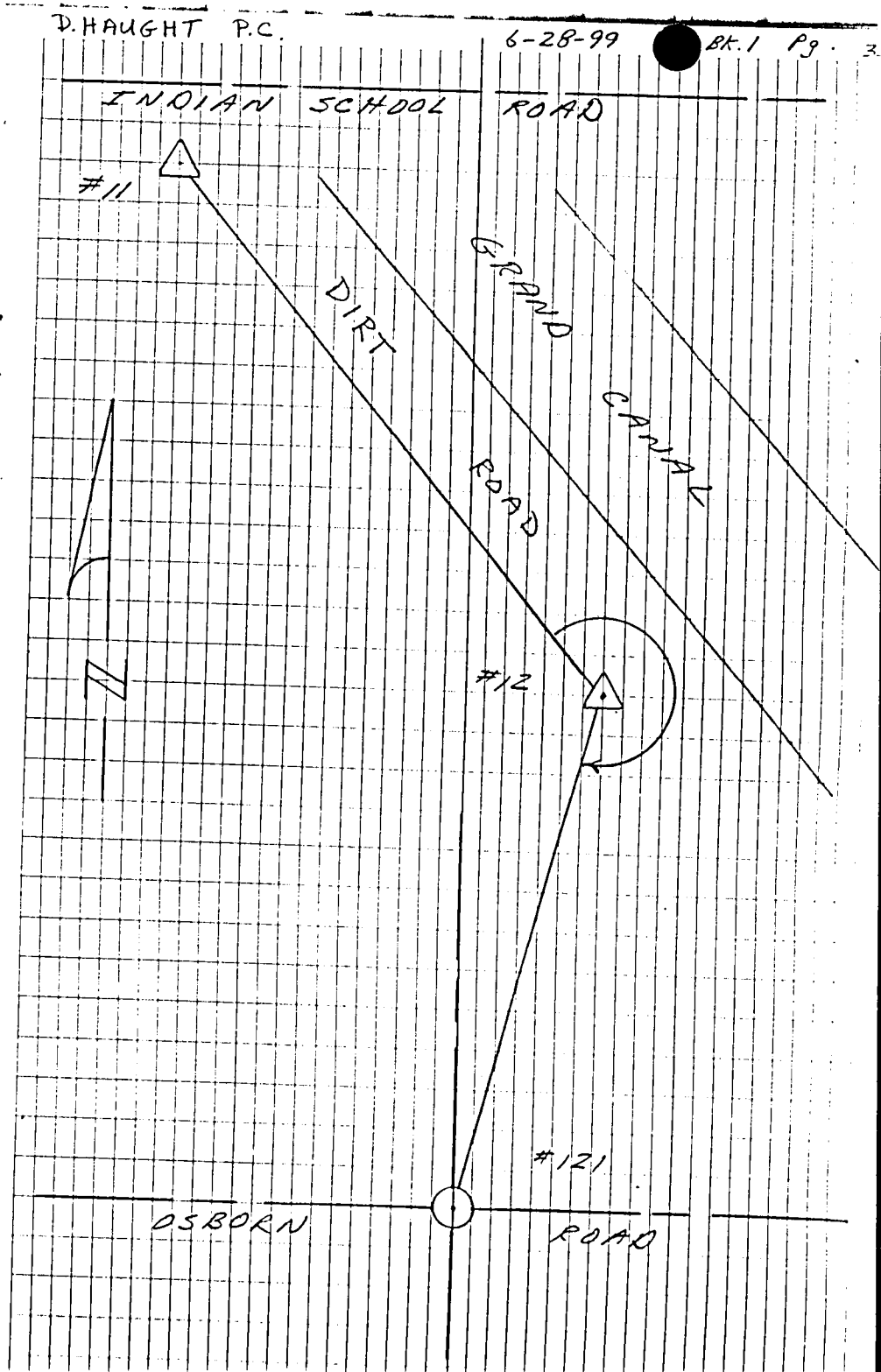
| | | | | | |
|---|---|---|---|---|---|
| B/S | 11 | 1/2" I.R. | | | |
| π | 12 | 1/2" I.R. | | | |
| F/S | 13 | CHISELED "X" | on s/w @ 63rd Ave & Indian School Rd N.E. Cor. | | |
| | 0° 00' 00" | | | | |
| | 45° 45' 25" | | | 1325.735 | 1325.735 |
| | 225° 45' 20"-30 | | | | |
| | 179° 59' 50" | | | | |
| M ∡ | 45° 45' 27.5" | | | | |
| B/S | 13 | | | | |
| π | 12 | | | | |
| F/S | 11 | | | | |
| | 0° 00' 00" | | | | |
| | 314° 14' 40" | | | | |
| | 134° 14' 30"+35 | | | | |
| | 179° 59' 55" | | | | |
| M ∡ | 314° 14' 37.5" | | | | |
| TOTAL | 360° 00' 05" | | | | |
| RT ∡ | 45° 45' 25" | | 24.26" | | |
| H.D. | 1325.735 | | | | |

D. HAUGHT, P.C. 6-28-99 Bk. 1 Pg.



D. HAUGHT P.C. 6-28-99 BK. 1 Pg. 3

| C. 1/4 | Cor. | Sec 20 | T. 2 E. | R. 2 E. | | |
|---|---|---|---|---|---|---|
| B/s | 11 | 1/2" I.R. | | | | |
| π | 12 | 1/2" I.R. | | | | |
| F/s | 121 | B.C.F | 63rd AVE & OSBORN ROAD | | | |
| | 0° 00' 00" | | | | | |
| | 225° 25' 00" | | | 1371.340 | 1371.340 | |
| | 45° 25' 00" 05 | | | | | |
| | 179° 59' 55" | | | | | |
| M ∡ | 225° 25' 02.5" | | | | | |
| B/s | 121 | | | | | |
| π | 12 | | | | | |
| F/s | 11 | | | | | |
| | 0° 00' 00" | | | | | |
| | 134° 35' 05" | | | | | |
| | 314° 35' 00" | | | | | |
| | 180° 00' 00" | | | | | |
| M ∡ | 134° 35' 02.5" | | | | | |
| TOTAL | 360° 00' 05" | | | | | |
| RT ∡ | 225° 25' 00" | | | | | |
| H.D | 1371.340 | | | | | |



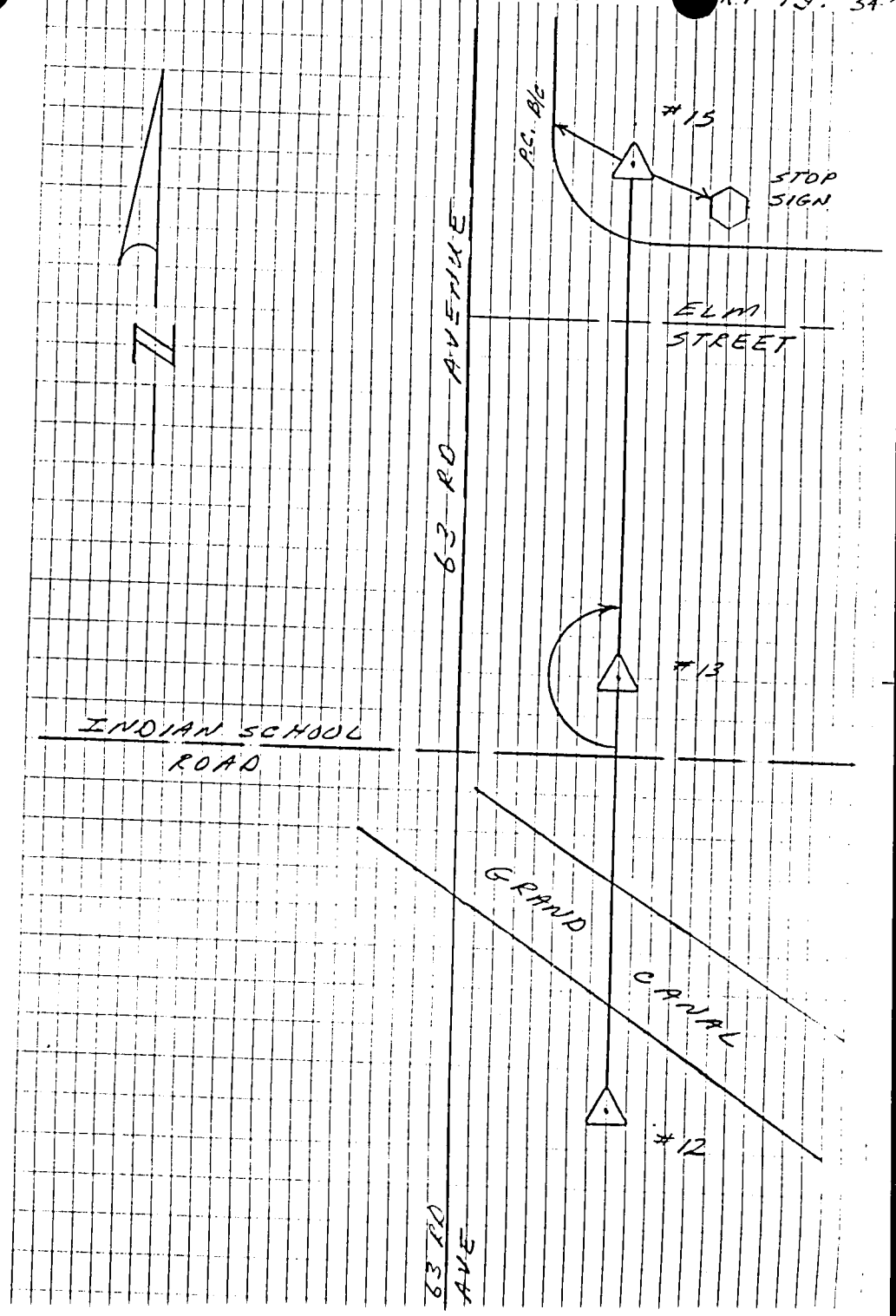
## HORIZONTAL CONTROL

| | | | | | |
|---|---|---|---|---|---|
| B/S | 12 | | | | |
| ℄ | 13 | | | | |
| F/S | 15 | CHISELED "X" ON S/W @ 63 Ave rd & ELM ST. NE. COR | | | |
| | 0°00' | 00" | | | |
| | 179 41 | 55 | | 3727.145 | 3724.140 |
| | 359 41 | 50 55 | | | |
| | 179 59 | 55 | | | |
| M ℄ | 179°41' | 55" | | | |
| B/S | 15 | | | | |
| ℄ | 13 | | | | |
| F/S | 12 | | | | |
| | 0°00' | 00" | | | |
| | 180° 18' | 10" | | | |
| | 0° 18' | 05" | | | |
| | 179 59 | 55 | | | |
| M ℄ | 180° 18' | 10" | | | |
| TOTAL | 360° 00' | 05 | | | |
| RT ℄ | 179°41' | 52.5" | 51.76" | | |
| H.D. | 3727. | 145 | | | |

D. HAUGHT, P.C.

6-28-99

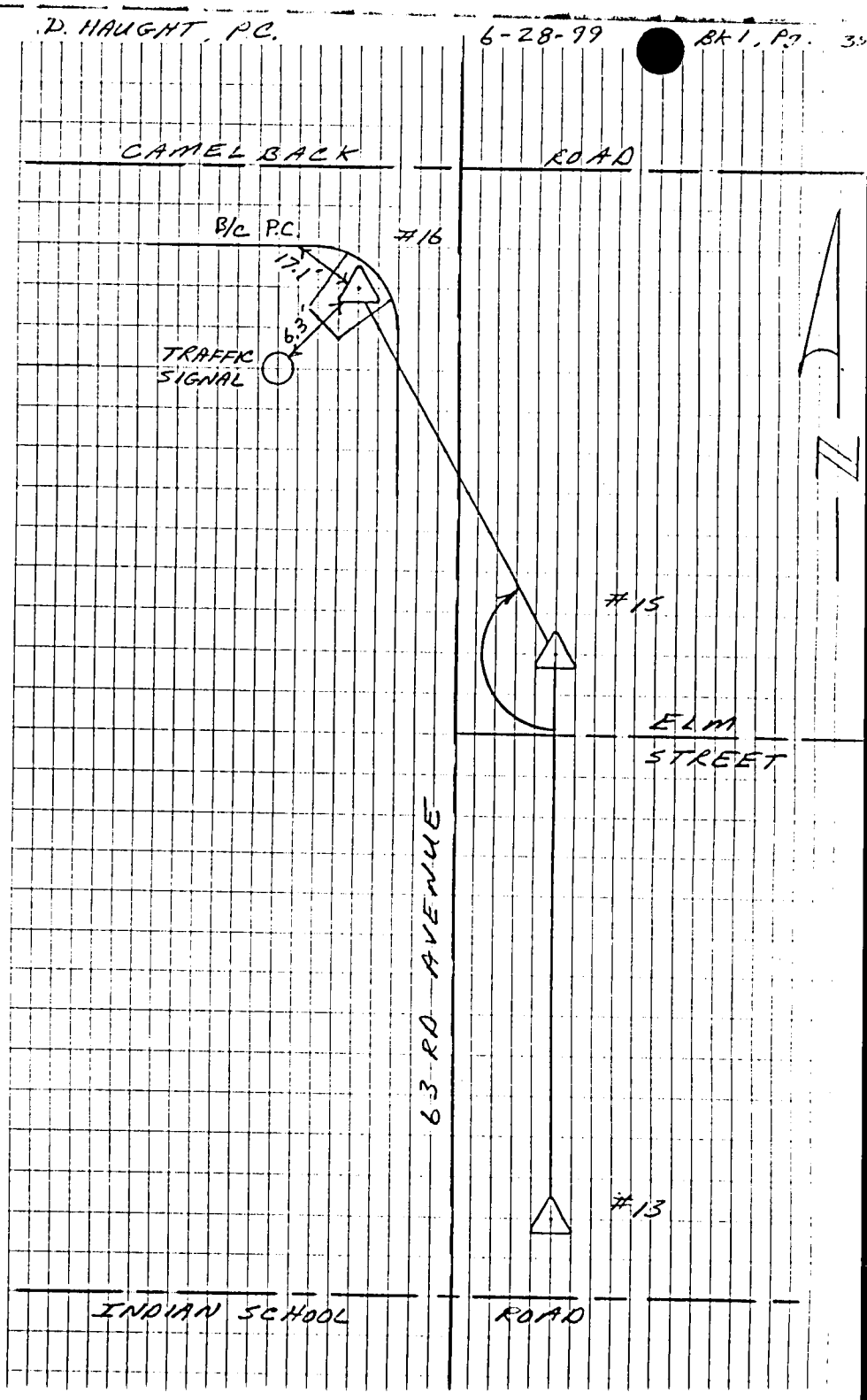
Bk 1 Pg. 34



## HORIZONTAL CONTROL

| | | | | |
|---|---|---|---|---|
| B/S | 13 | CHISELED "X" ON SIDEWALK | | |
| T | 15 | CHISELED "X" ON SIDEWALK | | |
| F/S | 16 | CHISELED "X" ON SIDEWALK (HANDICAP RAMP) | | |
| | 0° 00' 00" | | | |
| | 177° 54' 55" | | 1454.190 | 1454.190 |
| | 357° 54' 45" "55" | | | |
| | 179° 59' 50" | | | |
| M ∡ | 177° 54' 55" | | | |
| B/S | 16 | | | |
| T | 15 | | | |
| F/S | 13 | | | |
| | 0° 00' 00" | | | |
| | 182° 05' 15" | | | |
| | 2° 05' 10" 15" | | | |
| | 179° 59' 55" | | | |
| M ∡ | 182° 05' 15" | | | |
| TOTAL | 360° 00' 10" | | | |
| RT ∡ | 177° 54' 50" | 49.26" | | |
| H.P. | 1454. 190 | | | |

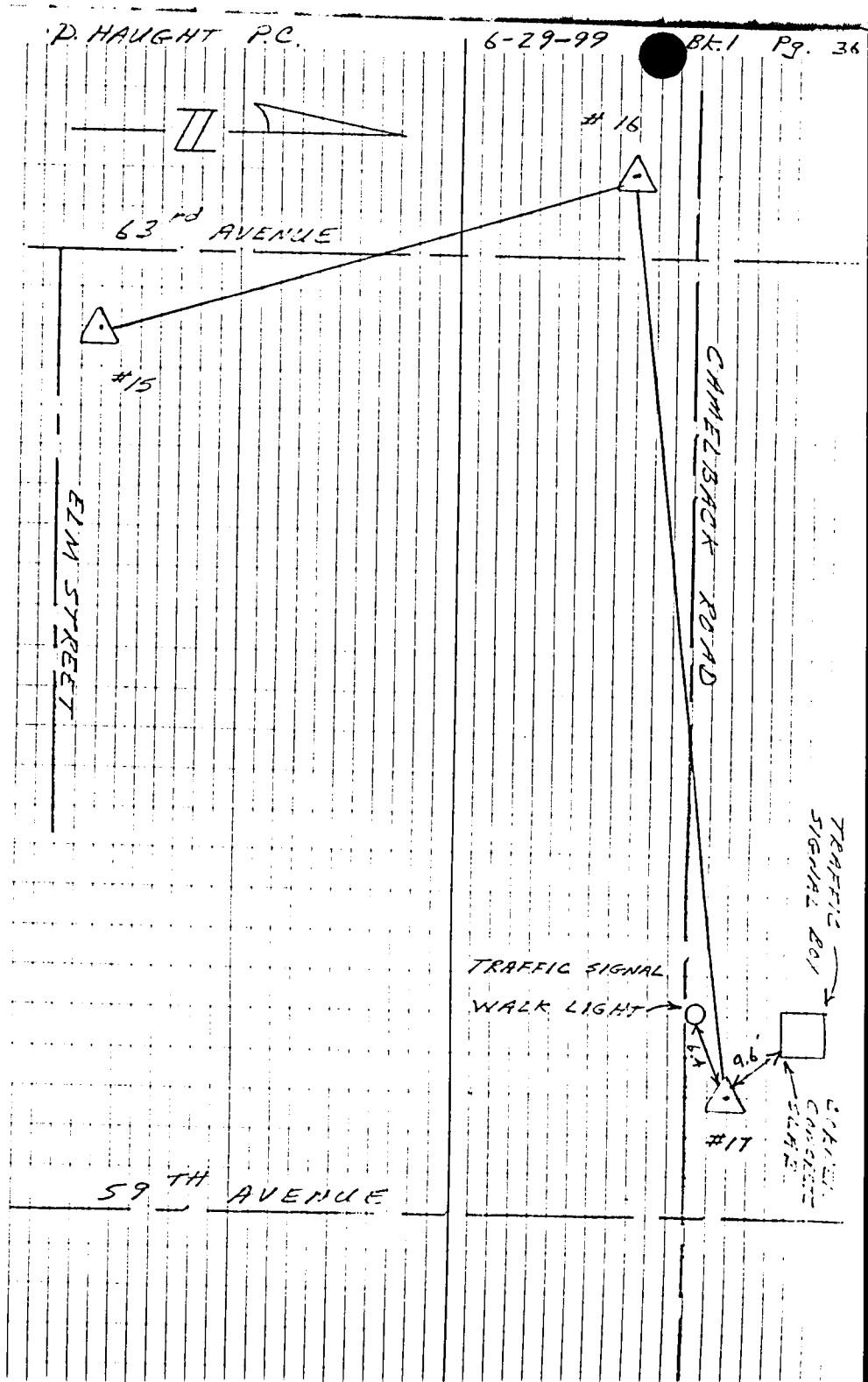
D. HAUGHT, P.C. 6-28-99 BK 1, PG. 33



## HORIZONTAL CONTROL

| | | | | | |
|---|---|---|---|---|---|
| B/S | 15 | SCRIBED "X" ON SIDEWALK | | | N.E. COR. 63rd Ave & Elm |
| T | 16 | SCRIBED "X" ON MANHOLE RIM | | | S.W. COR 63 Ave & CAMEL BACK. |
| P/S | 17 | SCRIBED "X" ON SIDEWALK | | | N.W. COR 59TH Ave & CAMELBACK |
| | 0° 00' 00" | | | .105 | 095 |
| | 268° 29' 50" | | 2643.005 | | |
| | 88° 29' 45" | | | | |
| | 179° 59' 50" | | | | |
| M ∠ | 268° 29' 52.5" | | | | |
| B/S | 17 | | | | |
| T | 16 | | | | |
| F/S | 15 | | | | |
| | 0° 00' 00" | | | | |
| | 179° 59' 50" | | | | |
| | 91° 30' 05" | | | | |
| | 271° 30' 05" | | | | |
| M ∠ | 91° 30' 10" | | | | |
| TOTAL | 360° 00' 02.5" | | | | |
| RT ∠ | 268° 29' 51.25" | 50.51" | | | |
| H.D. | 2643.100 | | | | |

P. HAUGHT P.C. 6-29-99 BK. 1 Pg. 36



| | | | | | |
|---|---|---|---|---|---|
| B/S | | SCRIBED "X" ON SIDEWALK | N.E. CORNER OF ELM ST. AND 63RD AVE. | | |
| T | 16 | SCRIBED "X" ON HANDICAP RAMP | S.W. COR. | | |
| F/S | 24 | | | | |
| | 0° 00' 00" | | | | |
| | 92 53 05 | | 2522.185 | 2522.185 | ✓ |
| | 272 53 05 | | | | |
| | 179 59 50 | | | | |
| M ∡ | 92° 53' 10" | | | | |
| B/S | 24 | | | | |
| T | 16 | | | | |
| F/S | 15 | | | | |
| | 00° 00' 00" | | | | |
| | 267 06 45 | | | | |
| | 87 06 45 | | | | |
| | 180° 00 00 | | | | |
| M ∡ | 267° 06' 45" | | | | |
| TOTAL | 359° 59' 55" | | | | |
| RT ∡ | 92° 53' 12.5" | | | | |
| H.D. | 2522.185 | | | | |

HORIZONTAL CONTROL

| | | | | | |
|---|---|---|---|---|---|
| B/S | 16 | | | | |
| ∡ | 17 | | | | |
| F/S | 18 | | | | |
| | 0° | 00' | 00" | 1301.500 | |
| | 97° | 09' | 50" | | 1301.500 |
| | 277° | 09' | 45" | | |
| | 179° | 59' | 55" | | |
| M∡ | 97° | 09' | 50" | | |
| B/S | 18 | | | | |
| ∡ | 17 | | | | |
| F/S | 16 | | | | |
| | 0° | 00' | 00" | | |
| | 262° | 50' | 10" | | |
| | 82° | 50' | 05" | | |
| | 179° | 59' | 55" | | |
| | 262° | 50' | 10" | | |
| TOTAL | 360° | 00' | 00" | | |
| RT∡ | 97° | 09' | 50" | 49.26" | |
| H.D. | 1301. | 500 | | | |

D. HAUGHT P.C. 6-29-99 BK. 1 PG. 3

## HORIZONTAL CONTROL

| | | | | | |
|---|---|---|---|---|---|
| B/S | 17 | | | | |
| ⊼ | 18 | | | | |
| F/S | 19 | | | | |
| | 0° 00' 00" | | | | |
| | 172° 03' 10" | | 1244.045 | 1244.043 | |
| | 352° 03' 10" | | | | |
| | 179° 59' 50" | | | | |
| MX | 172° 03' 15" | | | | |
| B/S | 19 | | | | |
| ⊼ | 18 | | | | |
| F/S | 17 | | | | |
| | 0° 00' 00" | | | | |
| | 187° 56' 25" | | | | |
| | 7° 56' 25" | | | | |
| | 179° 59' 55" | | | | |
| MX | 187° 56' 27.5" | | | | |
| TOTAL | 359° 59' 42.5" | | | | |
| RT ∠ | 172° 03' 23.75" | 23.01" | | | |
| H.D. | 1244.045 | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Horizontal | Control | | | | |
| B/S | 19 | | 1 | | | |
| T | 20 | | | | | |
| F/S | 21 | | | | | |
| | | | | | | |
| | 0° 00' 00" | | | | | |
| | 180° 54' 15" | | | 2648.415 | 2648.420 | |
| | 0° 54' 15" | | | | | |
| | 179° 59' 50" | | | | | |
| MX | 180° 54' 20" | | | | | |
| | | | | | | |
| B/S | 21 | | | | | |
| T | 20 | | | | | |
| F/S | 19 | | | | | |
| | | | | | | |
| | 0° 00' 00" | | | | | |
| | 179 05 30 | | | | | |
| | 359 05 35 | | | | | |
| | 180 00 00 | | | | | |
| MX | 179° 05' 32.5" | | | | | |
| | | | | | | |
| TOTAL | 359° 59' 52.5" | | | | | |
| | | | | | | |
| RT ∠ | 180° 54' 23.75" | 23.01" | | | | |
| | | | | | | |
| H.D. | 2648 4175 | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| B/S | 19 | | | | |
| ∡ | 20 | | | | |
| F/S | 107 | 63RD AVE & | MISSOURI AVE | | |
| | 0° 00' 00" | | | | |
| | 194 18 20 | | 104.430 | 104.430 | |
| | 14 18 15 | | | | |
| | 179 59 50 | | | | |
| M ∡ | 194° 18' 22.5" | | | | |
| B/S | 107 | | | | |
| ∡ | 20 | | | | |
| F/S | 19 | | | | |
| | 0° 00' 00" | | | | |
| | 165° 41' 35" | | | | |
| | 345° 41' 35" | | | | |
| | 179° 59' 55" | | | | |
| M ∡ | 165° 41' 37.5" | | | | |
| TOTAL | 360° 00' 00" | | | | |
| RT ∡ | 194° 18' 22.5" | | | | |
| H.D | 104.430 | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| B/S | 20 | | | | | |
| ∡ | 21 | | | | | |
| F/S | 22 | | | | | |
| | 0° 00' 00" | | | | | |
| | 177° 37' 00" | | | 3041.415 | 3041.415 | |
| | 357° 31' 55" | | | | | |
| | 180 00 05" | | | | | |
| M ∡ | 177° 36' 55" | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | 0 | | | | | |
| | 182° 23' 05" | · | 05" | | | |
| | 2 23 00" | | 00" | | | |
| | 179 59 · 55" | | 55" | | | |
| M ∡ | 182 23 05" | | | | | |
| | | | | | | |
| TOTAL | 360 00 00 | | | | | |
| | | | | | | |
| RT ∡ | 177° 36' 55" | | | | | |
| | | | | | | |
| H.D. | 3041.415 | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| B/S | 21 | | | | |
| ∡ | 22 | | | | |
| F/S | 23 | | | | |
| | 0° 00' 00" | | | | |
| | 182° 28' 25" | | | 2221.205 | 2221.205 |
| | 2° 28' 25" | | | | |
| | 180° 00' 00" | | | | |
| MX | 182° 28' 25" | | | | |
| B/S | 23 | | | | |
| ∡ | 22 | | | | |
| F/S | 21 | | | | |
| | 0° 00' 00" | | | | |
| | 177° 31' 50" | | | | |
| | 357° 31' 40" | | | | |
| | 180° 00' 00" | | | | |
| MX | 177° 31' 45" | | | | |
| TOTAL | 360° 00' 10" | | | | |
| RT ∡ | 182° 28' 20" | | 19.26" | | |
| H.P. | 2221.205 | | | | |

| C. M | Cor. | Sec 13 | T. 2 N. | R. 1 E. | | | |
|---|---|---|---|---|---|---|---|
| B/S | 21 | | | | | | |
| ∡ | 22 | | | | | | |
| F/S | 105 | BCF | @ 71ST AVE. | & Missouri | | | Center 1/4 Cor. Sec. 13 |
| | 0° 00' | 00" | | | | | |
| | 358° 00' | 10" | | | 470.465 | 470.465 | |
| | 178° 00' | 00" | | | | | |
| | 180° 00' | 00" | | | | | |
| M ∡ | 358° 00' | 05" | | | | | |
| | | | | | | | |
| B/S | 105 | | | | | | |
| ∡ | 22 | | | | | | |
| F/S | 21 | | | | | | |
| | | | | | | | |
| | 0° 00' | 00" | | | | | |
| | 1° 59' | 50" | | | | | |
| | 181° 59' | 50" 55 | | | | | |
| | 179° 59' | 55" | | | | | |
| M ∡ | 1° 59' | 52.5" | | | | | |
| | | | | | | | |
| TOTAL | 359° 59' | 57.5" | | | | | |
| | | | | | | | |
| RT ∡ | 358° 00' | 06.25" | | | | | |
| | | | | | | | |
| H.D. | 470. | 465' | | | | | |

D. HAUGHT, P.C.

6-29-99

Bk. 1 Pg. 46

| | | | | | |
|---|---|---|---|---|---|
| B/S | 22 | | | | |
| Π | 23 | | | | |
| F/S | 34 (1) | | | | |
| | 0° 00' 00" | | | | |
| | 271° 49' 05" | | 2631.730 | 2631.730 | |
| | 91° 49' 05" | | | | |
| | 179° 59' 50" | | | | |
| M Z | 271° 49' 10" | | | | |
| B/S | 34 (1) | | | | |
| Π | 23 | | | | |
| F/S | 22 | | | | |
| | 0° 00' 00" | | | | |
| | 88° 10' 55" | | | | |
| | 268° 10' 55" | | | | |
| | 180° 00' 00" | | | | |
| M Z | 88° 10' 55" | | | | |
| TOTAL | 360° 00' 05" | | | | |
| RT Δ | 271° 49' 07.5" | 06.76" | | | |
| H.D. | 2631.730 | | | | |

| | | | |
|---|---|---|---|
| B/S | 23 | | |
| ⊼ | 1 | | |
| F/S | 35 (2) | | |
| | 0° 00' 00" | | |
| | 86° 37' 40" | | |
| | 266° 37' 40" | | |
| | 179° 59' 55" | | |
| M ∡ | 88° 37' 42.5" | | |
| B/S | 35 (2) | | |
| ⊼ | 34 (1) | | |
| F/S | 23 | | |
| | 0° 00' 00" | | |
| | 273° 22' 20" | | |
| | 93° 22' 10" | | |
| | 180° 00' 00" | | |
| M ∡ | 273° 22' 15" | | |
| TOTAL | 359° 59' 57.5" | | |
| RT ∡ | 86° 37' 43.75" | 43.01" | |
| H.P. | 2666.6475 | | |
| | 3600° 00' 16.25" | 22 angles = 0.71" | |
| | 3600 00 17 50 | | |

| | | | | | |
|---|---|---|---|---|---|
| B/S | 16 | | 2522.13' | | |
| π | 24 | | | | |
| F/S | 25 | | | | |
| | 0° 00' | 00" | | | |
| | 177° 33' | 20" | 2642.05' | 2642.05' | |
| | 357° 33' | 20" | | | |
| | 179° 59' | 55" | | | |
| M π | 177° 33' | 22.5" | | | |
| B/S | 25 | | | | |
| π | 24 | | | | |
| F/S | 16 | | | | |
| | 0° 00' | 00" | | | |
| | 182° 26' | 40" | | | |
| | 02° 36' | 35" | | | |
| | 179° 59' | 55" | | | |
| M π | 182° 26' | 40" | | | |
| TOTAL | 360° 00' | 02.5" | | | |
| RT π | 177° 33' | 21.25" | | | |
| H.D. | 2642.055 | | | | |

HORIZONTAL CONTROL

D. HAUGHT, P.C. 7-6-99 BK 1 PG. 49

| | | | | | | |
|---|---|---|---|---|---|---|
| B/S | 24 | | | | | |
| T | 25 | | | | | |
| F/S | 06 | | | | | |
| | 0° 00' | 00" | | | | |
| | 178°05' | 25" | 2451 | 795 | 2451. | 790 |
| | 358°05' | 20" | | | | |
| | 180°00' | 00" | | | | |
| M ∠ | 178° 05' | 22.5" | | | | |
| B/S | 06 | | | | | |
| T | 25 | | | | | |
| F/S | 24 | | | | | |
| | 0° 00' | 00" | | | | |
| | 181°54' | 35" | | | | |
| | 01°54' | 30" | | | | |
| | 179°59' | 55" | | | | |
| M ∠ | 181° 54' | 35" | | | | |
| TOTAL | 359°59' | 57.5" | | | | |
| RT ∠ | 178° 05' | 21.25" | | | | |
| H.D. | 2451. | 7925 | | | | |

HORIZONTAL CONTROL

| | | |
|---|---|---|
| B/S | 25 | |
| π | 06 | |
| F/S | 07 | |
| | 0°00' | 00" |
| | 50°34' | 35" |
| | 230°34' | 35" |
| | 180°00' | 05" |
| M ∠ | 50° 34' | 32.5" |
| B/S | 07 | |
| π | 06 | |
| F/S | 25 | |
| | 0°00' | 00" |
| | 309°25' | 25" |
| | 129°25' | 20" |
| | 179°59' | 55" |
| M ∠ | 309°25' | 25" |
| TOTAL | 359°59' | 57.5" |
| KT ∠ | 50° 34' | 31.25" |

HORIZONTAL CONTROL

D. HAUGHT, P.C. 7-6-99 BK 1 Pg. 5

| | | | | | | |
|---|---|---|---|---|---|---|
| B/S | 02 | | | | | |
| ℄ | 03 | | | | | |
| F/S | 26 | | | | | |
| | 0°00' | 00" | | | | |
| | 180°41' | 06" | 3212 | 655 | 3214 | 65' |
| | 0°41' | 00" | | | | |
| | 179°59' | 55" | | | | |
| M ℄ | 180°41' | 02.5" | | | | |
| B/S | 26 | | | | | |
| ℄ | 03 | | | | | |
| F/S | 02 | | | | | |
| | 0°00' | 00" | | | | |
| | 179°19' | 00" | | | | |
| | 359°19' | 00" | | | | |
| | 180°00' | 00" | | | | |
| M ℄ | 179°19' | 00" | | | | |
| TOTAL | 360°00' | 02.5" | | | | |
| RT ℄ | 180°41' | 01.25" | | | | |
| H.D | 3214. | 655 | | | | |

D. HAUGHT, P.C. 7-6-99 Bk. Pg. 52

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| E | BIS | 32 | | | 3300 | 750 | 3300 | 755 |
| T | π | 33 (03) | | | | | | |
| F | FIS | 02 | | | | | | |
| | | | 0°00' | 00" | | | | |
| | | | 190°24' | 45" | | | | |
| | | | 10°24' | 45" | | | | |
| | | | 180°00' | 00" | | | | |
| L | M∠ | | 190°24' | 45" | | | | |
| | BIS | 02 | | | | | | |
| | π | 33(03) | | | | | | |
| | FIS | 32 | | | | | | |
| | | | 0°00' | 00" | | | | |
| | | | 169°35' | 20" | | | | |
| | | | 349°35' | 15" | | | | |
| | | | 180°00' | 00" | | | | |
| | M∠ | | 169°35' | 17.5" | | | | |
| | TOTAL | | 360°00' | 02.5" | | | | |
| | RT. ∠ | | 190°24' | 43.75" | | | | |

HORIZONTAL CONTROL

| | | | | | | |
|---|---|---|---|---|---|---|
| BS | 03 | | | | | |
| T | 26 | | | | | |
| FS | 27 | | | | | |
| | 0°00' | 00" | | | | |
| | 180°34' | 10" | 2599 | 190 | 2597 | 190 |
| | 0°34' | 05" | | | | |
| | 180°00' | 00" | | | | |
| M ∠ | 180°34' | 07.5" | | | | |
| BS | 27 | | | | | |
| T | 26 | | | | | |
| FS | 03 | | | | | |
| | 0°00' | 00" | | | | |
| | 179°25' | 45" | | | | |
| | 359°25' | 45" | | | | |
| | 180°00' | 00" | | | | |
| M ∠ | 179°25' | 45" | | | | |
| TOTAL | 359°59' | 52.5" | | | | |
| RT ∠ | 180°34' | 11.25" | | | | |
| H.D. | 2599. | 190 | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B/S | 30 | | | 2932. | 285 | 2932. | 285 |
| ⊼ | 31 | B14 | MAIL | | | | |
| F/S | 32 | | | | | | |
| | 0° 00' | 05" | | | | | |
| | 214° 53' | 40" | | 2658. | 175 | 2658. | 170 |
| | 34° 53' | 30" | | | | | |
| | 180° 00' | 00" | | | | | |
| M ∡ | 214° 53' | 32.5" | | | | | |
| B/S | 32 | | | | | | |
| ⊼ | 31 | | | | | | |
| F/S | 30 | | | | | | |
| | 0° 00' | 00 | | | | | |
| | 145° 06' | 25" | | | | | |
| | 325° 06' | 35" | | | | | |
| | 180° 00' | 05" | | | | | |
| M ∡ | 145° 06' | 27.5" | | | | | |
| TOTAL | 359° 59' | 60" | | | | | |
| RT ∡ | 214° 53' | 32.5" | | | | | |
| H.D. | 2658. | 175 | | | | | |

| | | |
|---|---|---|
| B/S | 31 | |
| ∡ | 32 | |
| F/S | 33 (03) | |
| | 0° 00' | 00" |
| | 154° 30' | 10" |
| | 334° 30' | 10" |
| | 179° 59' | 55" |
| M ∡ | 154° 30' | 12.5" |
| B/S | 33 (3) | |
| ∡ | 32 | |
| F/S | 31 | |
| | 0° 00' | 00 |
| | 205° 29' | 50" |
| | 25° 29' | 45" |
| | 180° 00' | 00" |
| M ∡ | 205° 29' | 47.5" |
| TOTAL | 360° 00' | 00" |
| RT ∡ | 154° 30' | 12.5" |
| H.D | 3300. | 7525 |

HORIZONTAL CONTROL

J. HAUGHT, P.C. 7-6-99 BK. 1 Pg. 56

| | | | | | | |
|---|---|---|---|---|---|---|
| B/S | 26 | | | | | |
| ℄ | 27 | | | | | |
| F/S | 28 | | | | | |
| | 0° 00' | 15" | | | | |
| | 178°48' | 50" | 2791 | 460 | 2791 | 460 |
| | 358 48 | 55" | | | | |
| | 180°00' | 10" | | | | |
| MX | 178°48' | 40" | | | | |
| B/S | 28 | | | | | |
| ℄ | 27 | | | | | |
| F/S | 26 | | | | | |
| | 0° 00' | 00" | | | | |
| | 181° 11' | 20" | | | | |
| | 01°11' | 10" | | | | |
| | 179°59' | 55" | | | | |
| MX | 181°11' | 17.5 | | | | |
| TOTAL | 359°59' | 57.5" | | | | |
| RT ∡ | 178°48' | 41.25" | | | | |
| H.D. | 2791. | 460 | | | | |

HORIZONTAL CONTROL

D. HAUGHT, P.C.

7-6-99

BK. 1, PG 57

| | | | | | | |
|---|---|---|---|---|---|---|
| B/S | 27 | | | | | |
| T | 28 | | | | | |
| F/S | 29 | | | | | |
| | 0° 00' | 00" | | | | |
| | 177°30' | 35" | 2508 | 160 | 2508 | 165 |
| | 357°30' | 35" | | | | |
| | 180°00' | 00" | | | | |
| MT | 177°30' | 35" | | | | |
| B/S | 29 | | | | | |
| T | 28 | | | | | |
| F/S | 27 | | | | | |
| | 0° 00' | 00" | | | | |
| | 182°29' | 25" | | | | |
| | 02°29' | 30" | | | | |
| | 180°00' | 05" | | | | |
| MT | 182°29' | 25" | | | | |
| TOTAL | 360°00' | 00" | | | | |
| RT T | 177°30' | 35" | | | | |
| HD | 2508. | 1625 | | | | |

MORI CONTAL CONTROL

D. HAUGHI, P.C. 7-6-99 19.58

| | | | | |
|---|---|---|---|---|
| B/S | 28 | | | |
| π | 29 | | | |
| F/S | 30 | | | |
| | 0° 00' | 00" | 359°59' | 50' |
| | 21°45' | 15" 25 | | |
| | 201°45' | 15" 30 | | |
| | 179°59' | 45" | | |
| M ∡ | 21°45' | 27.5" | | |
| B/S | 30 | | | |
| π | 29 | | | |
| F/S | 28 | | | |
| | 0° 00' | 00" | | |
| | 338°14' | 20" | | |
| | 158°14' | 30" | | |
| | 180°00' | 10" | | |
| M ∡ | 338°14' | 20" | | |
| TOTAL | 359°59' | 47.5" | | |
| RT ∡ | 21°45' | 33.75" | | |
| H.D. | 2690. | 3025 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B/S | 2 | | | 2670, 305 | | 2640, 310 | |
| π | 30 | | | | | | |
| F/S | 31 | | | | | | |
| | 0° 00' | 00" | | | | | |
| | 140° 51' | 35" | | 2932, 280 | | | |
| | 320° 51' | 30" | | | | | |
| | 179° 59' | 55" | | | | | |
| MX | 140° 51' | 35" | | | | | |
| B/S | 31 | | | | | | |
| π | 30 | | | | | | |
| F/S | 29 | | | | | | |
| | 0° 00' | 00" | | | | | |
| | 219° 08' | 30" | | | | | |
| | 39° 08' | 30" | | | | | |
| | 180° 00' | 00" | | | | | |
| MX | 219° 08' | 30" | | | | | |
| TOTAL | 360° 00' | 05" | | | | | |
| RTX | 140° 51' | 32.5" | | | | | |
| H.D. | 2932. | 285 | | | | | |

| I/S | | F/S | RT. ∠ | BALANCED | HORZ. DIST. |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 180°26'55.45" | | 2042.660 |
| 2 | 3 | 4 | 47°53'10.45" | | 3382.530 |
| 3 | 4 | 5 | 180°11'17.95" | | 2151.080 |
| 4 | 5 | 6 | 182°48'47.95" | | 1564.7275 |
| 5 | 6 | 7 | 177°16'06.70" | | 2123.130 |
| 6 | 7 | 8 | 171°47'06.70" | | 1446.850 |
| 7 | 8 | 9 | 160°05'46.70" | | 1868.600 |
| 8 | 9 | 10 | 193°06'05.45" | | 1015.650 |
| 9 | 10 | 11 | 198°45'20.45" | | 1952.405 |
| 10 | 11 | 12 | 173°47'10.45" | | 1707.320 |
| 11 | 12 | 13 | 45°45'24.20" | | 1325.735 |
| 12 | 13 | 15 | 179°41'51.70" | | 3727.145 |
| 13 | 15 | 16 | 177°54'49.20" | | 1454.190 |
| 15 | 16 | 17 | 268°29'50.45" | | 2643.100 |
| 16 | 17 | 18 | 97°09'49.20" | | 1301.500 |
| 17 | 18 | 19 | 172°03'22.95" | | 1244.045 |
| 18 | 19 | 20 | 93°20'37.95" | | 2497.8525 |
| 19 | 20 | 21 | 180°54'22.95" | | 2648.4175 |
| 20 | 21 | 22 | 177°36'54.20" | | 3041.415 |
| 21 | 22 | 23 | 182°28'19.20" | | 2221.205 |
| 22 | 23 | 34(1) | 271°49'06.70" | | 2631.730 |
| 23 | 34(1) | 35(2) | 86°37'42.95" | | 2666.6475 |

| B/S | | F/S | RT. ∠ | BALANCED | HORIZ. DIST. |
|---|---|---|---|---|---|
| 2 | 3 | 26 | 180° 41' | 00.83" | 3214.655 |
| 3 | 26 | 27 | 180° 34' | 10.83" | 2599.190 |
| 26 | 27 | 28 | 178° 48' | 40.83" | 2791.460 |
| 27 | 28 | 29 | 177° 30' | 34.58" | 2508.1625 |
| 28 | 29 | 30 | 21° 45' | 33.33" | 2690.3075 |
| 29 | 30 | 31 | 140° 51' | 32.08" | 2932.285 |
| 30 | 31 | 32 | 214° 53' | 32.08" | 2658.175 |
| 31 | 32 | 33 | 154° 30' | 12.08" | 3300.7525 |
| 32 | 33 | 36 | 190° 24' | 43.33" | |

| B/S | ∠ | F/S | RT. ∠ | BALANCED | HORIZ. DIST. |
|---|---|---|---|---|---|
| 15 | 16 | 24 | 92° 53' | 12.5" | 2522.185 |
| 16 | 24 | 25 | 177° 33' | 21.25" | 2642.055 |
| 24 | 25 | 36(6) | 178° 05' | 21.25" | 2451.7925 |
| 25 | 36 (6) | 7 | 50° 34' | 31.25 | |

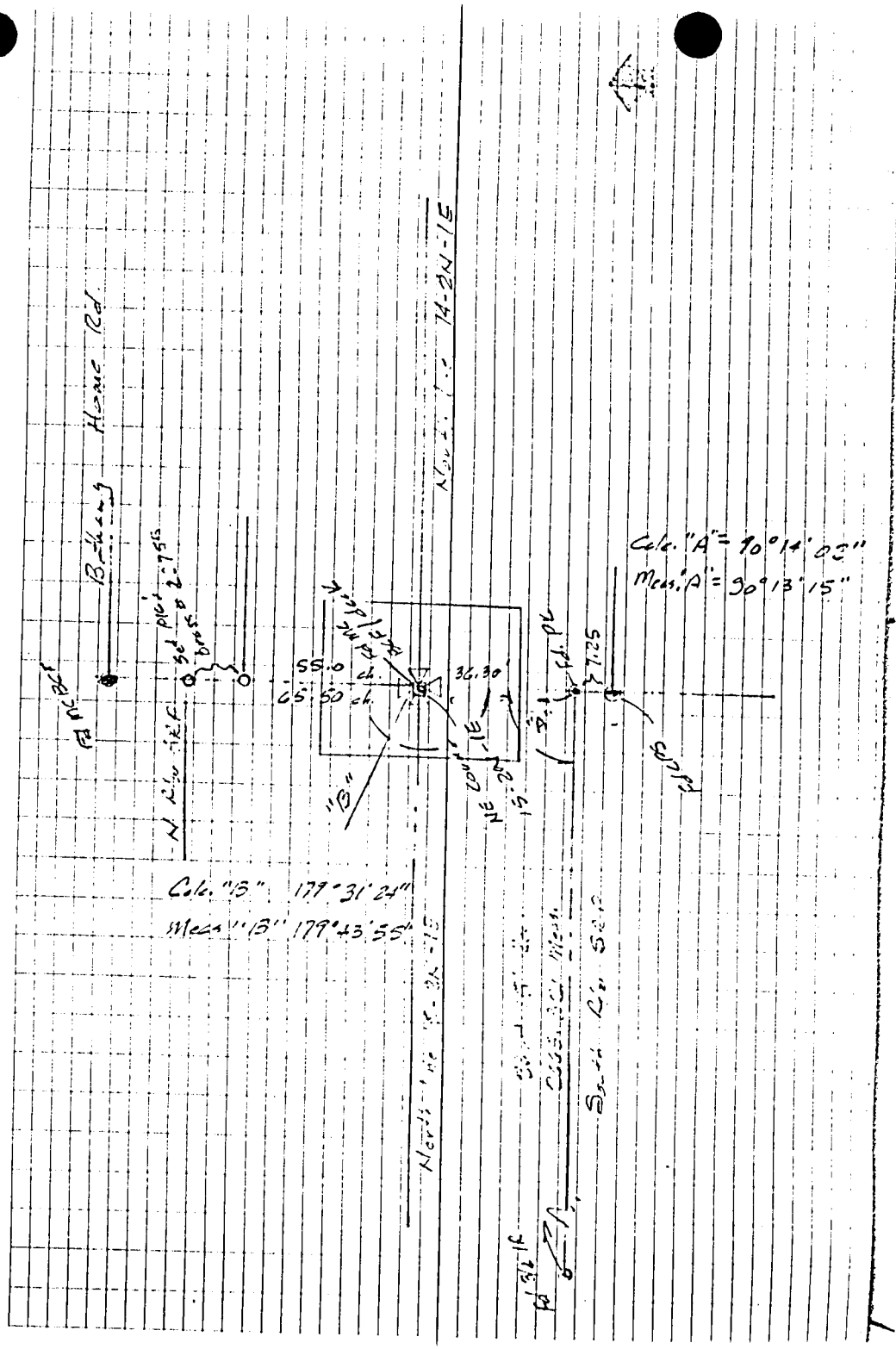
4144
Bethany Home Outfall
10/19/99 R/W survey, Grant Canal
Cont. from pg. 75

M Colling
Harmon

Sections 9 & 10 - 2N-1E

Sunny & Cool

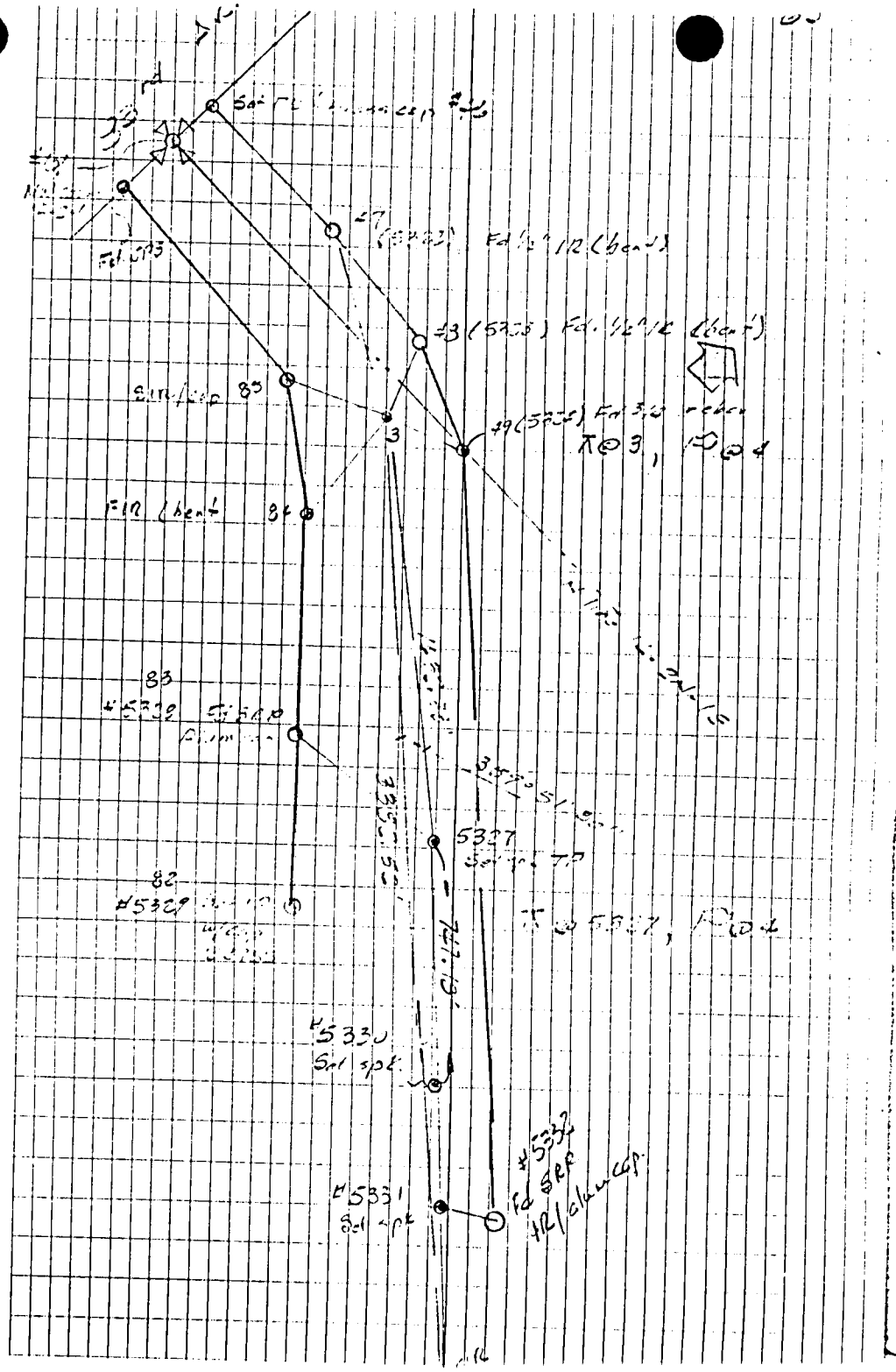
Data file 4144 RW1.cr5



10/17/99 Cont from pre pg.
R/W Survey, Grove Canal
4155 PNTS, or 5

M Collins

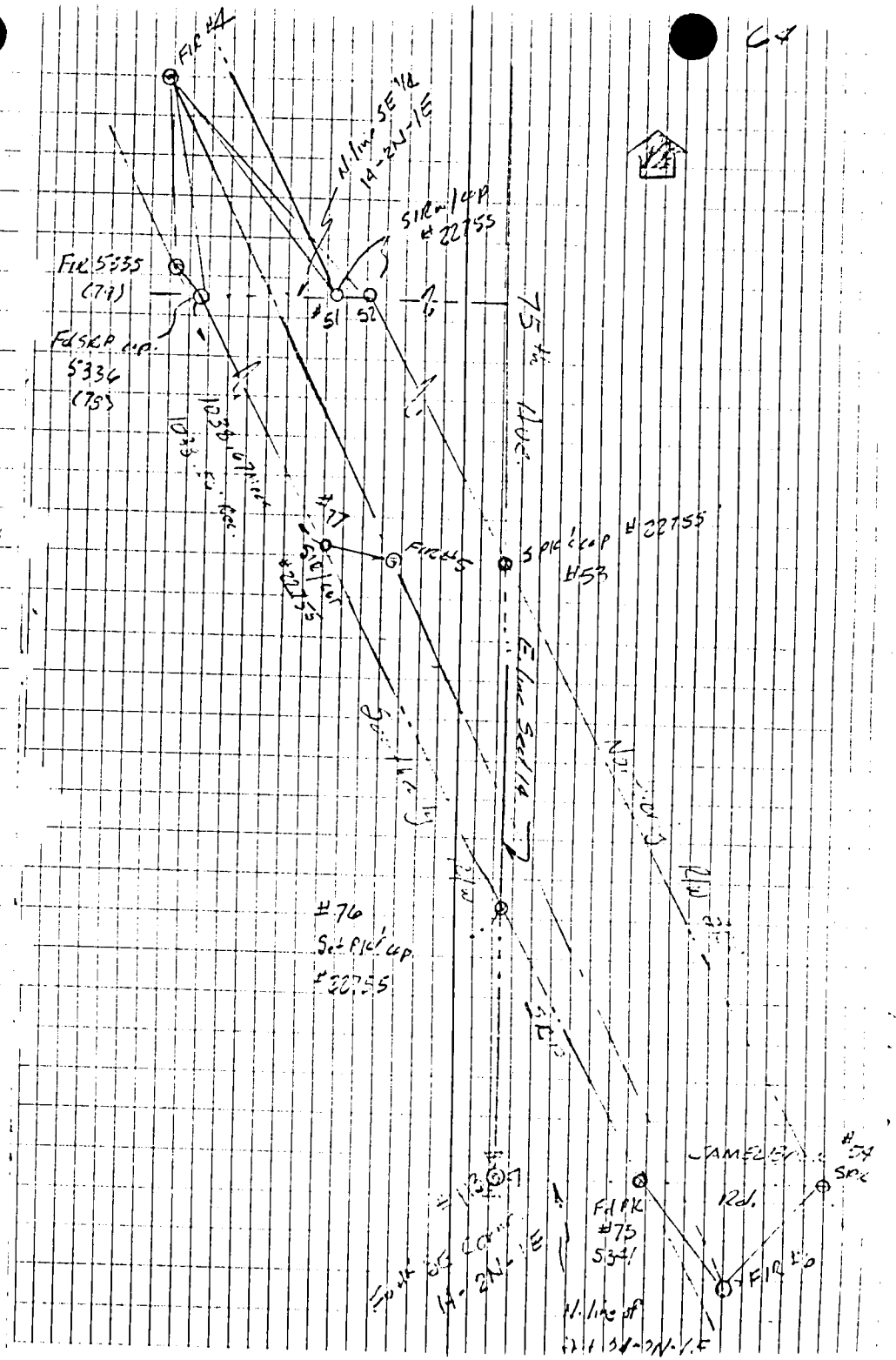
⊼ [illegible]



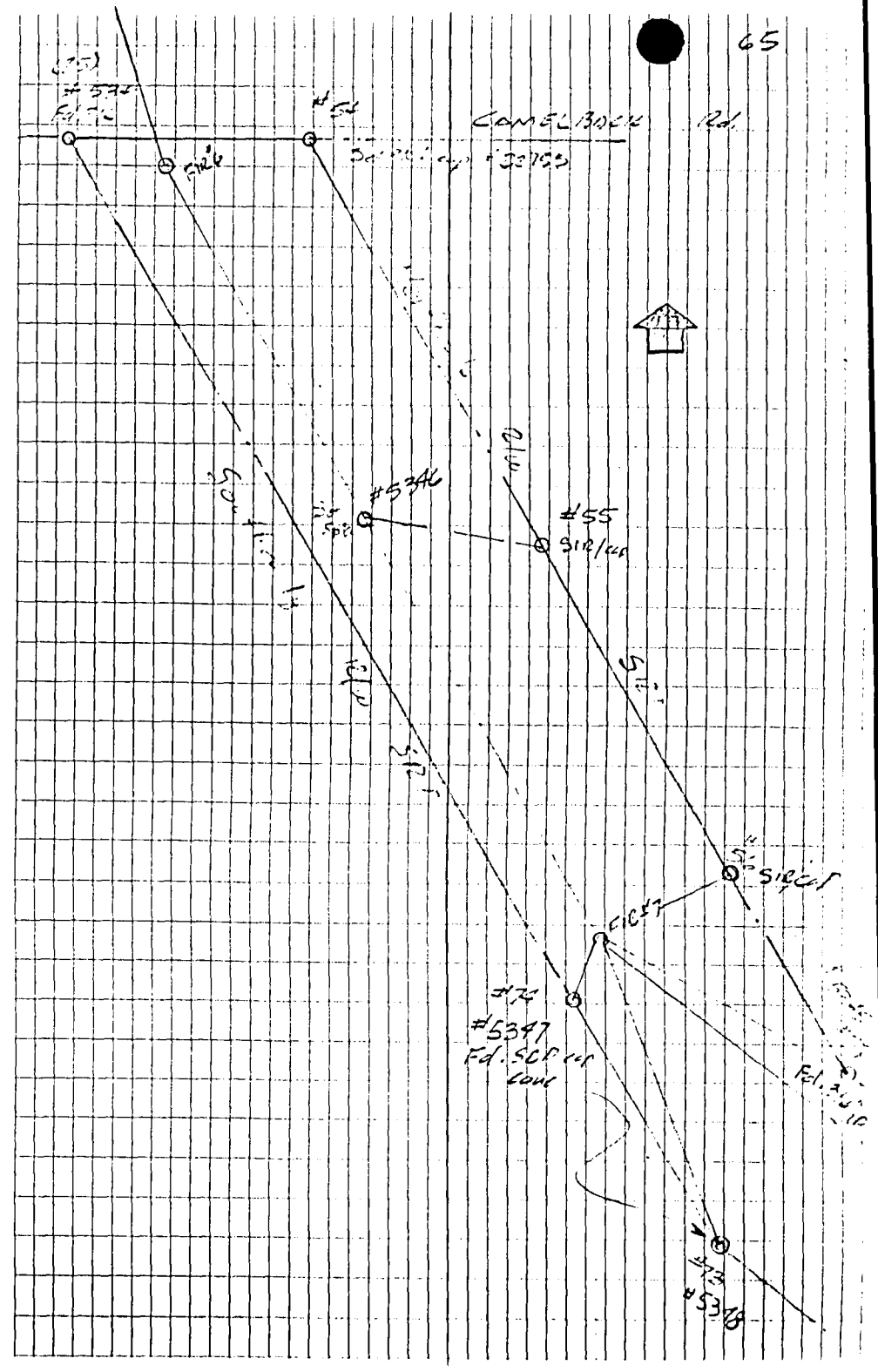
10/23/99
R/W Survey Grand Canal
Cont from pre. pg 4144PNTS.cr5

M Cobbing

T Harmon



10/23/99
C/W [illegible] Gr[illegible] [illegible]
Cont. from pre. pg.
4144 PNTS. cr 5
M Collin
Λ Harmon
Con[illegible]



12 Aug 99
Haught
Sample
Rcis

Base set random 4od [200]
"set", "set"

Begin localize

| | | N | E | el | S | R |
|---|---|---|---|---|---|---|
| – [4] | H&V | 0.0000 | .0000 | .0000 | 1.00.. | 0.00.. |
| [113] | H&V | .0000 | .0000 | .0000 | 1.000053 | 00.0960 |
| [114] | H&V | .0075 | .0050 | .0000 | 1.000056 | 00.0960 |
| [29] | H&V | .0026 | .0011 | .9837 | 1.000058 | 00.0959 |
| [30] | H&V | .0053 | .0142 | .9126 | 1.000059 | .0958 |
| [27] | H&V | .0346 | .0171 | 1.9046 | 1.000059 | .0958 |
| [201] | V | .0346 | .0171 | 2.2850 | 1.000059 | .0958 |

edit el [4] from 1098.48 to 1091.01

edit el [30] from 1056.00 to 1056.37

edit el [104] from 1106.91 to 1098.46

edit el [108] from 1127.61 to 1127.75

edit el [20] from 1120.44 to 1120.76

Localize
Re-solve

| | | N | E | el | S | R |
|---|---|---|---|---|---|---|
| [4] | H&V | .0346 | .0171 | .0291 | 1.000059 | .0958 |
| [30] | H&V | .0346 | .0171 | .0291 | 1.000059 | .0958 |

Continue localize

| | | | | | | |
|---|---|---|---|---|---|---|
| [32] | H&V | .0433 | .0171 | .0276 | 1.000058 | .0958 |
| (202) [201] | V | .0433 | .0171 | .0261 | 1.000058 | .0958 |
| [3] | H&V | .0432 | .0175 | .0252 | 1.000058 | .0958 |
| [1] | H&V | .0424 | .0239 | .0267 | 1.000059 | .0958 |

12 Aug 99
Haught
Sample
Reis

Continue localize

| | | N | E | El | S | R |
|---|---|---|---|---|---|---|
| 104 | H&V | .0438 | .0229 | .0257 | 1.000059 | .0959 |
| 106 | H&V | .0512 | .0213 | .0247 | 1.000059 | .0959 |
| 107 | | | | | | |
| ~~20~~ | H&V | .0536 | .0250 | .0239 | 1.000059 | .0959 |
| 108 | H&V | .0595 | .0254 | .0231 | 1.000059 | .1000 |
| 109 | H&V | .0638 | .0306 | .0284 | 1.000058 | .1000 |
| 110 | H&V | .0621 | .0377 | .0421 | 1.000058 | .1000 |
| 111 | H&V | .0604 | .0379 | .0418 | 1.000057 | .1000 |
| 10 | H&V | .0584 | .0452 | .0452 | 1.000057 | .1001 |
| 8 | H&V | .0571 | .0500 | .0443 | 1.000056 | .1001 |
| 204 | V | .0571 | .0500 | .0491 | 1.000056 | .1001 |
| 203 | V | .0571 | .0500 | .0491 | 1.000056 | .1001 |
| 12 | H&V | .0642 | .0452 | .0491 | 1.000056 | .1001 |

end localize

19 Horiz
21 Vert

NEW BASE POINT RESULTS



| PT # | DELTA NORTHING | DELTA EASTING | DELTA ELEVATION |
|---|---|---|---|
| 301 | 1.50 | 0.56 | -0.05 |
| 303 | 1.48 | 0.63 | -0.12 |
| 304 | 1.40 | 0.65 | -0.17 |
| 305 | 1.35 | 0.63 | -0.19 |
| 3 | 0.56 | 0.62 | -0.13 |
| 300 | 0.07 | -0.09 | -0.12 |
| 325 | 0.19 | 0.20 | -0.18 |
| 326 | 0.13 | 0.29 | -0.22 |
| 317 | 0.44 | 0.41 | -0.14 |
| 310 | 1.14 | 0.61 | -0.19 |
| 311 | 0.92 | 0.57 | -0.21 |
| 368 | -0.37 | 0.28 | -0.13 |
| 371 | -0.81 | 0.34 | -0.13 |
| 354 | -0.77 | 0.03 | -0.16 |
| 335 | -0.67 | -0.52 | -0.07 |
| 343 | -0.17 | -0.25 | -0.23 |
| 200 | 0.36 | 0.35 | -0.21 |

91 ST AVENUE @ GRAND CANAL

| | | | | |
|---|---|---|---|---|
| B/S | 26 | 5.66 | C/P | |
| ⊼ | 27 | 5.35 | C/P | |
| F/S | 1000 ~~50~~ | 5.43 | W/P | N. GRAND CANAL W. 91 ST |
| F/S | 1001 | 5.34 | W/P | S. GRAND CANAL E. 91 ST |
| B/S | 27 | 5.395 | | |
| ⊼ | 1001 | 5.305 | | |

SOUTH OF GRAND CANAL
R.O.W. ON 91 ST AVE
PTS. 1002 → 1400

| | | |
|---|---|---|
| B/S | 27 | 6.01 |
| ⊼ | 1000 | 5.52 |

Data File 4140 TOPO. Cr5 jd

10-5-99 Bk 1 Pg. 69

83 RD AVENUE, GRAND CANAL, & BETHANY HOME RD

| PT. # | DESC | DIR. | INV. |
|---|---|---|---|
| 2821 | SSMH | N&S | 13.10 |
| 2823 | WV | | 3.50 |
| 2822 | SSMH | N&S | 12.52 |
| 2824 | WV | | 3.70 |
| 2835 | WV | | 2.45 |
| 2834 | WV | | 1.60 |
| 2833 | WV | | 3.70 |
| 2831 | WV | | 3.75 |
| 2830 | WV | | 2.70 |
| 2318 | WV | | 3.10 |
| 2319 | WV | CANNOT OPEN | |
| 2847 | WV | | 2.60 |
| 2848 | SSMH | N&S | 11.75 |
| 2857 | WV | | 3.25 |
| 2836 | SSMH | E&S.W. | 8.85 |

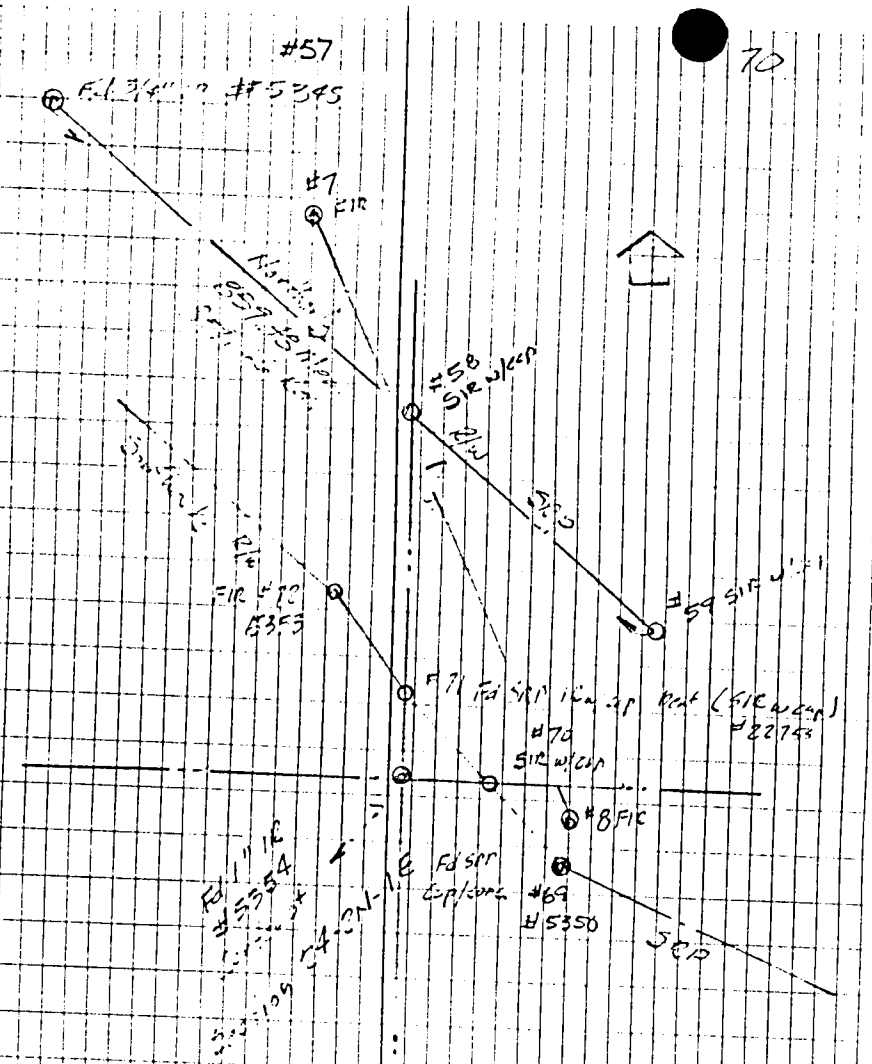
(JOB)
DATA FILE: 4144TOP2 (2000 → 2877 points)

Cont. from p. 65
R/W Survey Grand Canal
4124 PMTS. cr 5

Colling

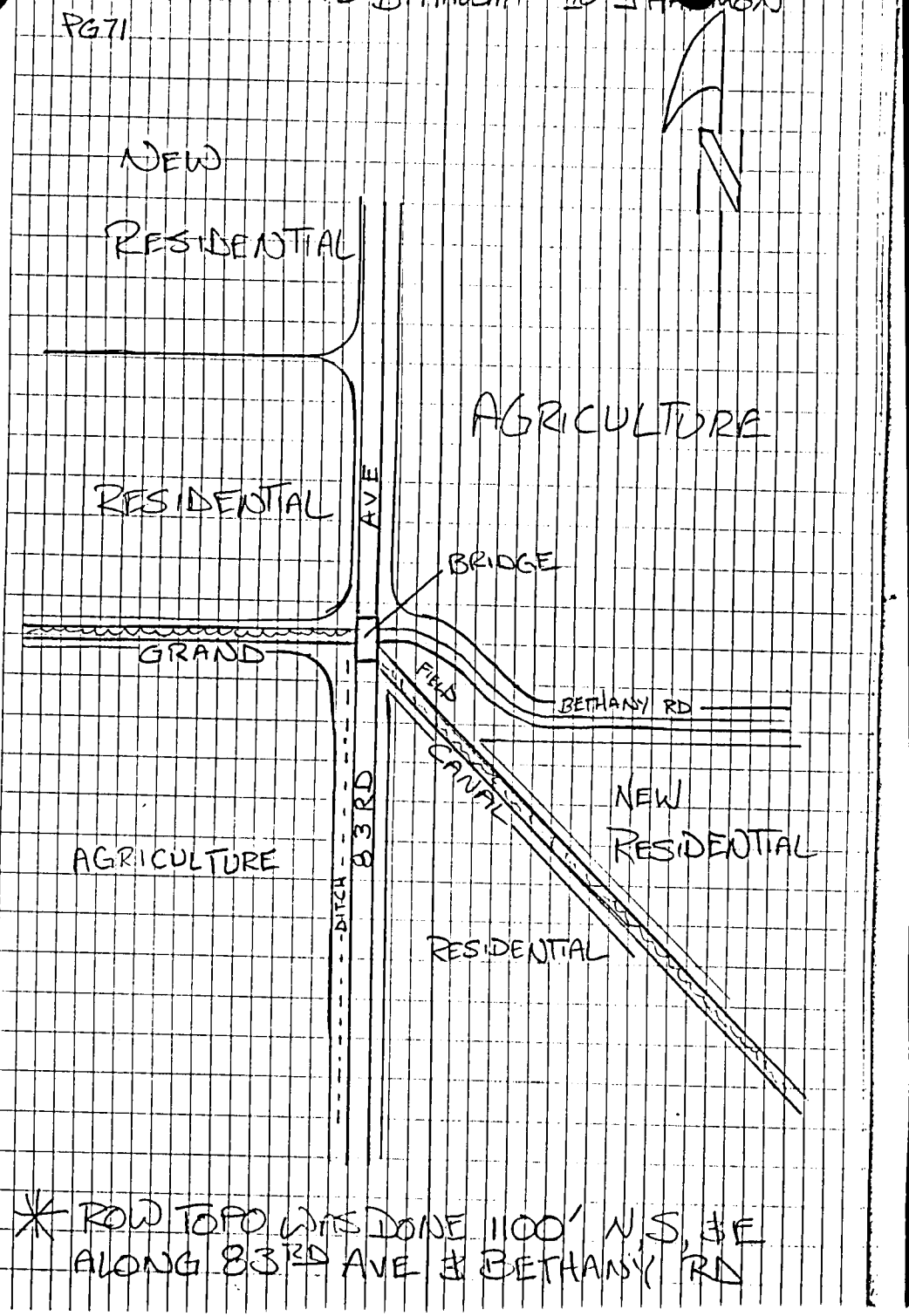
Harmon

$\bar{\lambda}$ 0.5
φ 65.1



10-6-99
PG71

PC D. HAUGHT TO J. HARMON




* ROW TOPO WAS DONE 1100' N, S, & E ALONG 83RD AVE & BETHANY RD

INVERT MEASUREMENTS:
91 ST & GRAND CANAL

| PT. # | DESC. | INV. | FLOW |
|---|---|---|---|
| 1793 | WV | -3.55 | |
| | MH | -12.40 | N & S |
| 1815 | WV | -4.25 | |
| 1630 | MH | | |
| 1833 | MH | | |
| 1853 | MH | -11.75 | N & S |
| | | -11.45 | E |
| 1861 | MH | -11.30 | N & S |
| 1862 | MH | | |
| 1870 | WV | -4.40 | |
| 1851 | WV | -4.10 | |
| 1828 | WV | | |
| 1817 | WV | -4.60 | |
| 1816 | WV | -3.50 | |

J. HARMON T. 10-6-17 BK. 1 PG. 72

@ STA. -6+30, 35' RT

#2 SEE SHEET
#2 SEE SHEET
SEWER (C.O.G.)
SEWER (C.O.G.)
SRP ELECTRIC (CANNOT OPEN)

(CANNOT OPEN)

#H44

Bethany Home Outfall

10/13/99 R/W Control Survey

[illegible] Colling Data Collector File 4144.RW1.

Section 9-2N-1E

π Harmon

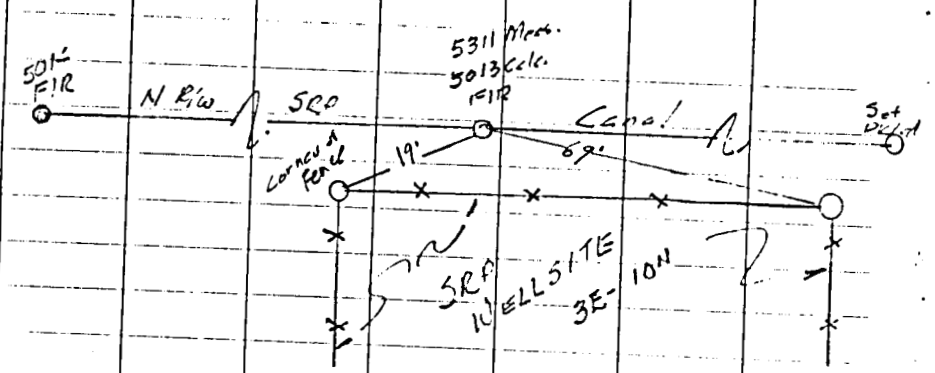
10/13/99

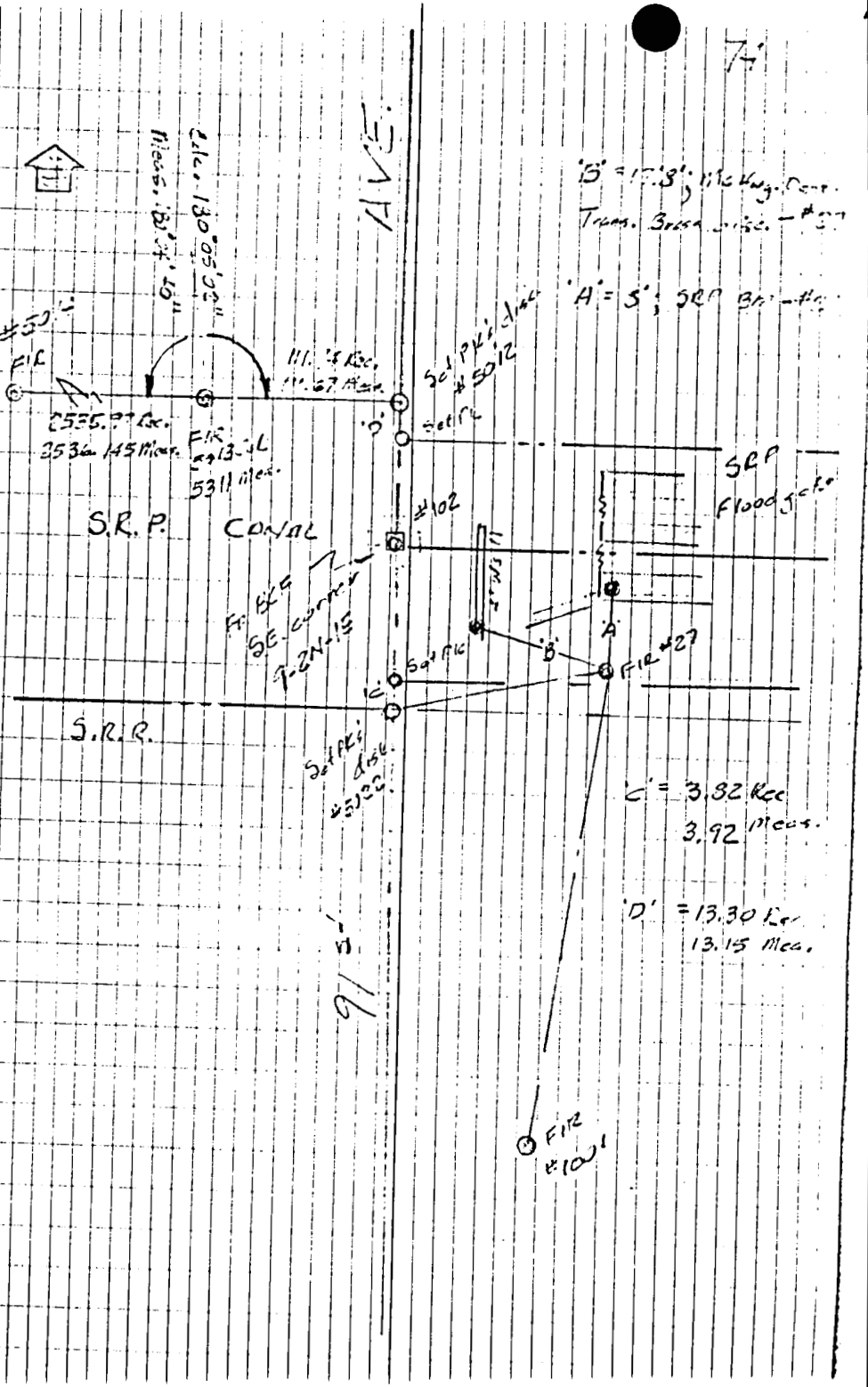
Bethany Home Outfall
R/W Control

M Colling
Harmon

Section 9-2N-1E

Data File 4144 Rwl. 5



Cont. from pre. pg.

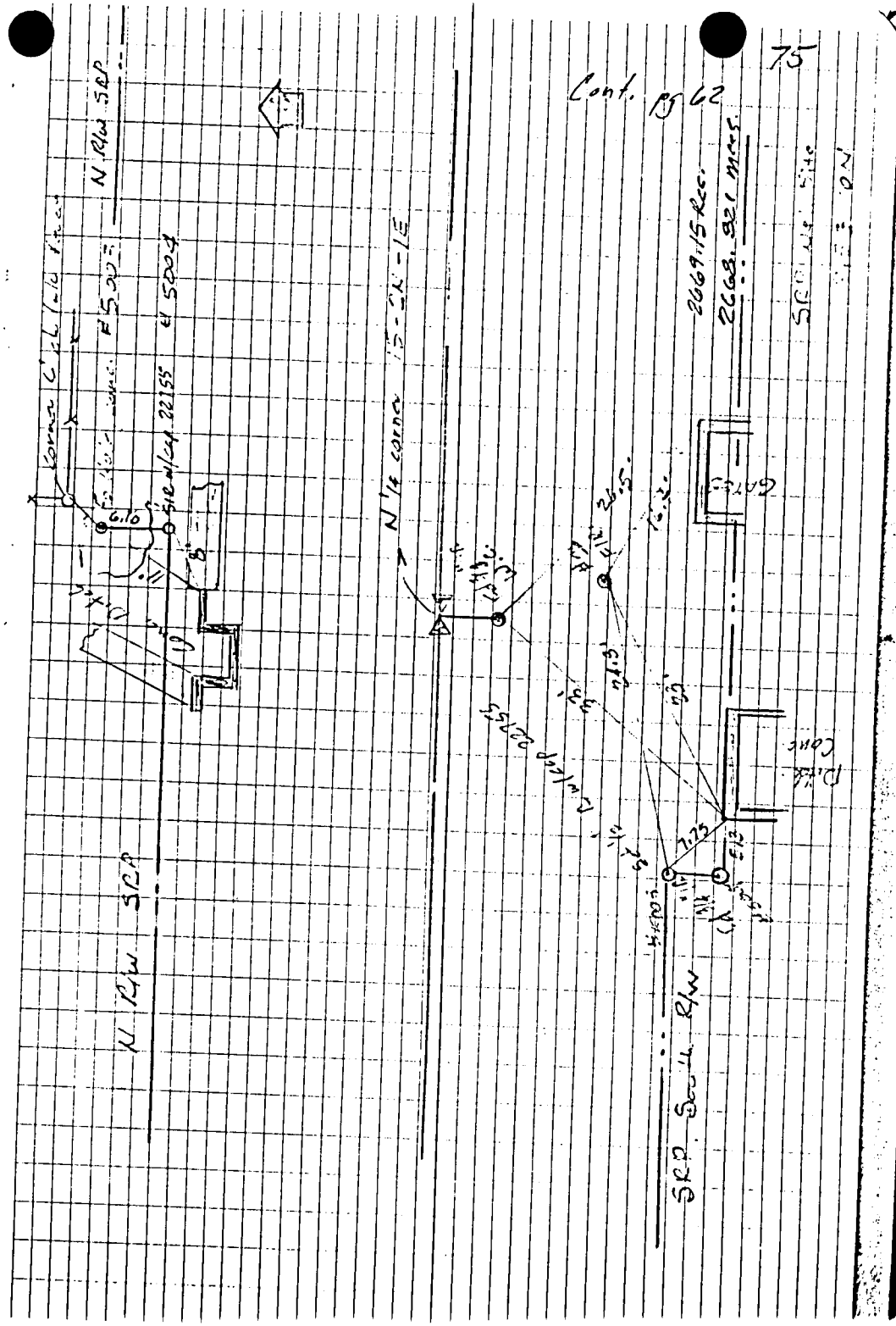
10/18/99

4144 RW1.cr5

Cont. on pg. 62
10/19/99



Cont. pg 62



BETHANY HOME RD.

B.M.

#4144

FCD No. 78-76

NATIONAL

415

LEVEL BOOK

#4144 B.M.

① BM - LEVEL LOOP 83RD TO 99TH AVE.

C. HANSON ⊼ i P.E.
B. HOFFMAN ϕ

06/22/99

②

| STA. | + | H.I. | - | ELEV. |
|---|---|---|---|---|
| BM 93 | | | | 1088.7506 |
| | 1.47 | | | |
| | 1.36 | 90.1094 | | |
| | 1.245 | | | |
| | | | 4.88 | |
| M.C | | | 4.28 | 1085.8294 |
| | | | 3.68 | |
| | ~~5.00~~ | 5.27 | | |
| | ~~4.00~~ | 4.61 | | |
| | ~~3.80~~ | 3.96 | | |
| | | | ~~1.59~~ 1.81 | |
| BM 93 | | | 1.48 1.69 | |
| | | | 1.36 1.57 | |

VERTICAL CONTROL — D. HAUGHT, P.C. — 7-14-99

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| 4.0E | | | | |
| BM 93 | | | | 1088.7506 |
| 10.0N | | | | |
| | 1.47 | 90.1094 | | |
| | 1.36 | | | |
| | 1.245 | | | (1085.8336 SKP) |
| M.C. | | | 4.88 | 1085.8294 |
| MCHD 1087.4 | | | 4.28 | 1085.8281 adj. |
| | | | 3.68 | |
| | 5.27 | 90.4419 | | |
| | 4.61 | | | |
| | 3.96 | | | |
| BM 93 | | | 1.81 | 1088.7519 |
| | | | 1.69 | |
| | | | 1.57 | |

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | | | | (1085.8336 SKP) |
| MC | | | | 1085.8294 |
| MCHD 1087.4 | | | | |
| | 1.36 | 86.8994 | | 1085.8291 adj |
| | 1.07 | | | |
| | 0.78 | | | |
| P/P # 11 | | | | |
| TP 1 | | | 4.44 | 1082.9869 |
| | | | 3.91 | 1082.9911 |
| | | | 3.39 | |
| | 3.95 | | | |
| | 2.73 | 85.7194 | | |
| | 1.52 | | | |
| P/P 9 | | | 4.42 | |
| | | | 3.34 | 1082.3794 |
| | | | 2.26 | 1082.3858 |
| | 3.70 | | | |
| | 2.49 | 84.8719 | | |
| | 1.29 | | | |

VERTICAL CONTROL: 85th AVE TO 91ST AVE BETHANY Home Rd.

D. HAUGHT, P.C. 7-14-98



| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| P/P 3 | | 84.8719 | | |
| P/P 6 | | | 7.47 | |
| | | | 5.22 | 1079.6544 |
| | | | 2.96 | 1079.6629 |
| | 3.60 | | | |
| | 2.42 | 82.0719 | | |
| | 1.23 | | | |
| P/P 4 | | | 5.00 | |
| | | | 3.88 | 1078.1919 |
| | | | 2.76 | 1078.2025 adj |
| | 3.71 | | | |
| | 2.52 | 80.7119 | | |
| | 1.33 | | | |
| P/P 2 | | | 5.50 | |
| | | | 4.38 | 1076.3294 |
| | | | 3.27 | 1076.3421 adj |

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| P/P 2 | | | | |
| | 4.34 | | | |
| | 3.81 | 80.1394 | | |
| | 3.28 | | | |
| P/P 7107 KL CONC. BASE N. SIDE SCRIBE "X" | | | 5.37 | |
| | | | 4.755 | 1075.3844 |
| | | | 4.14 | 1075.4014 |
| | 3.94 | | | |
| | 3.59 | 78.9744 | | |
| | 3.24 | | | |
| C.P. #26 | | | 5.68 | |
| | | | 5.31 | 1073.6619 |
| | | | 4.95 | 1073.6789 adj |
| | ~~4.87~~ | | | |
| | 4.63 | 78.2919 | | |
| | ~~3.39~~ | | | |

(7) VERTICAL CONTROL — D. HAUGHT, P.E. — 7-14-99 (8)

85TH AVE TO 91ST AVE — BETHANY HOME ROAD

| STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| P/P 115 | | | 3.80 | | 1074.74 |
| | | | 3.55 | 1074. | 7444 |
| | | | 3.29 | 1074. | 7614 adj |
| | 4.44 | | | | |
| | 3.17 | 77.9119 | | | |
| | 1.89 | | | | |
| P/P 113 | | | 4.90 | | 1074.20 |
| | | | 3.71 | 1074. | 1994 |
| | | | 2.53 | 1074. | 2185 |
| | 3.60 | | | | |
| | 2.34 | 76.5369 | | | |
| | 1.07 | | | | |
| P/P 111 | | | 4.91 | | |
| | | | 3.67 | 1072. | 8669 |
| | | | 2.43 | 1072. | 8881 adj |
| | 3.76 | | | | |
| | 2.49 | 75.3569 | | | |
| | 1.22 | | | | |

3rd P/P

| STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| P/P 111 | | 75.3569 | | | |
| P/P 109 | | | 5.49 | | 1071.10 |
| | | | 4.25 | 1071. | 1044 |
| | | | 3.02 | 1071. | 1278 adj |
| | 4.71 | | | | |
| | 3.445 | 74.5494 | | | |
| | 2.18 | | | | |
| P/P 107 | | | 5.11 | | 1070.74 |
| | | | 3.875 | 1070. | 6744 |
| | | | 2.64 | 1070. | 6998 adj |
| | 5.215 | | | | |
| | 3.93 | 74.6069 | | | |
| | 2.655 | | | | |
| @ 91ST SRP GATE 2*22 | | | 6.80 | S.R.P. (1069. | 0532) |
| | | | 5.58 | 1069. | 0269 |
| | | | 4.36 | | |
| | −0.0276/13 TURNS = | | | | −0.0021 |

# VERTICAL CONTROL (GRAND CANAL)

91ST AVE TO 99TH AVE

D. HAUGHT, P.C.

7-15-99



| STA | + | H.I. | − | ELEV |
|---|---|---|---|---|
| | | | | EL'n |
| @ 91 ST S.R.P GATE 2*22 | 3.53 | | | 1069.0532 |
| | 2.97 | 72.0232 | | |
| | 2.41 | | | |
| | | | 2.46 | (S.R.P 1070.0452) |
| @ 91 ST M/C 1071.7 MCHD. | | | 1.98 | 1070.0432 |
| | | | 1.50 | 1070.0450 adj. |
| | 2.565 | | | |
| | 2.08 | 72.1270 | | |
| | 1.61 | | | |
| | | | 3.64 | |
| @ 91 ST S.R.P GATE 2*22 | | | 3.08 | 1069.0470 |
| | | | 2.52 | |
| | 3.31 | | | |
| | 2.80 | 71.8557 | | |
| | 2.30 | | | |

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| @ 91 ST S.R.P GATE 2*22 | | 71.8557 | | 1069.0532 |
| | | | 7.24 | |
| P/P #103 | | | 5.74 | 1066.1157 |
| | | | 4.24 | 1066.1225 adj. |
| | 4.23 | | | |
| | 2.31 | 68.4282 | | |
| | 0.40 | | | |
| | | | 5.26 | |
| P/P #101 | | | 3.35 | 1065.0782 |
| | | | 1.44 | 1065.0918 adj. |
| | 4.045 | | | |
| | 2.15 | 67.2295 | | |
| | 0.26 | | | |
| | | | 6.08 | |
| P/P #99 | | | 4.155 | 1063.0745 |
| | | | 2.23 | 1063.1017 adj. |

VERTICAL CONTROL — D. HAUGHT, P.C. — 7-15-99

91ST AVE TO 99TH AVE (GRAND CANAL)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| P/P # 99 | 4.14 | | | 1063.0745 |
| | 2.23 | 65.3045 | | 1063.1017 adj |
| | 0.32 | | | |
| | | | 5.39 | |
| P/P # 96 | | | 3.455 | 1061.8470 |
| | | | 1.53 | 1061.8810 adj |
| | 4.39 | | | |
| | 3.37 | 65.2195 | | |
| | 2.36 | | | |
| | | | 4.58 | |
| P/P # 95 | | | 3.70 | 1061.5207 |
| | | | 2.815 | 1061.0615 adj |
| | 4.235 | | | |
| | 3.23 | 64.7520 | | |
| | 2.23 | | | |

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| P/P # 95 | | 64.7520 | | |
| | | | 3.695 | |
| P/P # 94 | | | 2.82 | 1061.9320 |
| | | | 1.945 | 1061.9796 adj. |
| | 4.52 | | | |
| | 3.12 | 65.0545 | | |
| | 1.73 | | | |
| P/P # 92 | | | 4.405 | |
| | | | 3.06 | 1061.9957 |
| | | | 1.71 | 1062.0501 adj |
| | 4.44 | | | |
| | 2.98 | 64.9757 | | |
| | 1.52 | | | |
| | | | 4.645 | |
| P/P # 89 | | | 3.34 | 1061.6370 |
| | | | 2.03 | 1061.6982 adj. |
| | 5.59 | | | |
| | 4.61 | 66.2470 | | |
| | 3.63 | | | |

# VERTICAL CONTROL

## 91ST AVE TO 99TH AVE (GRAND CANAL)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| P/P #89 | | 66.2470 | | |
| | | | 5.81 | |
| P/P #87 | | | 4.76 | 1061.4870 |
| | | | 3.71 | 1061.5546 adj |
| | 4.23 | | | |
| | 3.42 | 64.9082 | | |
| | 2.615 | | | |
| | | | 3.65 | |
| @ 99TH M.C. 1062.1 | | | | (SRP 1062 .1758) |
| | | | 2.80 | 1062.1082 |
| MCHD 1062.1 | | | 1.95 | |
| | −0.0676 | /10 = | −0.0068 | |

## D. HAUGHT, P.C. 7-15-99

## 83RD AVE. TO 75TH AVE

| STA. | + | H.I | − | ELEV. |
|---|---|---|---|---|
| | 7.82 | | | 1088.7506 |
| SRP | | | | |
| BM 93 | 5.455 | 94.2031 | | |
| 4.0 E 10.0 N | 3.08 | | | |
| | | | 5.74 | |
| P/P 18 | | | 3.795 | 1090.4081 |
| | | | 1.85 | 1090.4053 adj |
| | 4.18 | | | |
| | 2.895 | 93.3031 | | |
| | 1.61 | | | |
| | | | 4.37 | |
| P/P 20 | | | 3.17 | 1090.1306 |
| | | | 1.98 | 1090.1250 adj |
| | 4.83 | | | |
| | 3.61 | 93.7406 | | |
| | 2.39 | | | |
| | | | 4.71 | |
| P/P 22 | | | 3.555 | 1090.1856 |
| | | | 2.40 | 1090.1772 adj |

| STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| P/P 27 | | | | 1090. | 1856 |
| | 5.02 | | | 1090. | 1772 adj. |
| | 3.62 | 93.8056 | | | |
| | 2.22 | | | | |
| | | | 3.98 | | |
| P/P 24 | | | 2.705 | 1091. | 1019 |
| | | | 1.425 | 1091. | 0907 adj |
| | 4.54 | | | | |
| | 3.10 | 94.1994 | | | |
| | 1.65 | | | | |
| | | | 3.765 | | |
| P/P 26 | | | 2.53 | 1091. | 6681 |
| | | | 1.30 | 1091. | 6541 adj |
| | 3.915 | | | | |
| | 2.46 | 94.1294 | | | |
| | 1.01 | | | | |

| STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| P/P 26 | | 94.1294 | | | |
| | | | 3.905 | | |
| P/P 28 | | | 2.64 | 1091. | 4894 |
| | | | 1.375 | 1091. | 4726 adj |
| | 5.68 | | | | |
| | 4.58 | 96.0694 | | | |
| | 3.48 | | | | |
| | | | 3.705 | | |
| P/P 27 | | | 2.82 | 1093. | 2494 |
| | | | 1.935 | 1093. | 2298 adj |
| | 2.968 | | | | |
| | 2.893 ~~2.883~~ | 96.1421 | | | |
| | 2.817 | | | | |
| | | | 5.157 | | |
| C/P 4 | | | 5.108 | 1091. | 0348 |
| | | | 5.057 ~~5.507~~ | 1091. | 0122 adj |
| | 5.263 | | | | |
| | 5.216 | 96.2504 | | | |
| | 5.168 | | | | |

# VERTICAL CONTROL

D. HAUGHT, P.C.

7-20-9



83 RD AVE TO 75 TH AVE (GRAND CANAL)

| STA | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | | | 3.075 ~~2.967~~ | |
| P/P | | | 3.002 ~~2.893~~ | 1093. 2486 |
| NO S.E OF P/P = 27 ALONG E. SIDE CANAL | | | 2.928 ~~2.819~~ | 1093. 2233 adj |
| | 5.37 | | | |
| | 4.06 | 97.3086 | | |
| | 2.75 | | | |
| | | | 7.84 | |
| B.C.F | @ 77 TH LANE & MISSOURI AVE | | 6.70 | 1090. 6061 |
| | | | 5.57 | 1090. 5780 adj |
| | 9.075 | | | |
| | 7.79 | 98.3974 | | |
| | 6.51 | | | |
| | | | 8.535 | |
| B.C.F. | @ 77 TH LANE & DENTON LANE | | 7.635 | 1090. 7824 |
| | | | 6.735 | 1090. 7315 adj |
| | 8.445 | | | |
| | 7.56 | 98.3224 | | |
| | 6.675 | | | |

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| BCF | @ 77 TH & DENTON | 98.3224 | | |
| | | | 8.32 | |
| BCF | @ 77 TH LANE & VERMONT AVE | | 7.47 | 1090. 8524 |
| | | | 6.62 | 1090. 8187 adj |
| | 7.235 | | | |
| | 6.24 | 97.0924 | | |
| | 5.245 | | | |
| | | | 7.39 | |
| B.C.F | @ 77TH LANE & GEORGIA AVE | | 6.18 | 1090. 9124 |
| | | | 4.97 | 1090. 8759 adj. |
| | 8.045 | | | |
| | 6.275 | 97.1861 | | |
| | 4.500 | | | |
| | | | 7.95 | |
| B.C.F | @ P.C. & 5351 77 TH LANE | | 6.19 | 1090. 9986 |
| | | | 4.42 | 1090. 2593 adj. |
| | 9.755 | | | |
| | 8.415 | 99.4136 | | |
| | 7.075 | | | |

# VERTICAL CONTROL

D. HAUGHT, P.C. 7-20-9

(20)

## 83RD AVE TO 75TH AVE (GRAND CANAL)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| B.C.F. | @ P.C., E 77TH LANE 99.4136 | | | |
| | | | 6.51 | |
| NAIL TP | | | 4.765 | 1094.6486 |
| | | | 3.02 | 1094.6065 adj |
| | 9.18 | | | |
| | 7.81 | 102.4611 | | |
| | 6.45 | | | |
| "BACK" TRIG STATION | | | 7.64 | SRP (1096.3632) |
| | | | 6.235 | 1096.2274 |
| | | | 4.825 | 1096.1825 adj |
| | 6.375 | | | |
| | 4.925 | 01.1011 | | |
| | 3.47 | | | |
| | @ 75TH AVE & CAMEL BACK | | 4.465 | SRP (1097.0622) |
| 050090 SRP B.M. | | | 4.04 | 1097.1099 |
| | | | 3.62 | |
| | +0.0477/17 = | | 0.0028 | |

## 75TH AVE TO 67TH AVE (GRAND CANAL)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 7.63 | | | |
| 050090 SRP | 6.085 | 103.1485 | | (SRP) 1097.0622 |
| | 4.545 | | | |
| | | | 8.57 | |
| P/P# 4 | | | 7.225 | 1095.9235 |
| | | | 5.88 | 1095.9222 adj. |
| | 9.13 | | | |
| | 7.31 | 103.2335 | | |
| | 5.49 | | | |
| | | | 6.55 | |
| COR CON TP | IRR. GATE | | 4.91 | 1098.3260 |
| | | | 3.26 | 1098.3236 adj. |
| | 6.32 | | | |
| | 4.59 | 102.9160 | | |
| | 2.86 | | | |
| | | | 6.98 | |
| NAIL TP | | | 5.67 | 1097.2460 |
| | | | 4.36 | 1097.2424 adj. |

# VERTICAL CONTROL

D. HAUGHT, P.E. 7-21-9

## 75TH AVE TO 67TH AVE (GRAND CANAL)

| STA | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| | 6.08 | | | 1097. | 2460 |
| NAIL | | | | 1097. | 2424 adj. |
| TP | 4.785 | 102.0322 | | | |
| ON ROAD | | | | | |
| @ P/P 9 | 3.495 | | | | |
| | | | 6.93 | | |
| P/P # 11 | | | 5.61 | 1096. | 4210 |
| | | | 4.295 | 1096. | 4162 adj. |
| | 6.58 | | | | |
| | 5.945 | 102.3660 | | | |
| | 5.31 | | | | |
| | | | 8.33 | | |
| P/P # P12 | | | | | |
| TOP OF | | | 7.64 | 1094. | 7260 |
| ANCHOR | | | | | |
| BOLT | | | 6.95 | 1094. | 7200 adj. |
| | 9.18 | | | | |
| | 7.82 | 102.5485 | | | |
| | 6.47 | | | | |
| | | | 8.82 | | |
| P/P # 14 | | | 7.435 | 1095. | 1135 |
| | | | 6.05 | 1095. | 1062 adj. |

| STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| P/P # 14 | | | | 1095. | 1135 |
| | 8.16 | | | 1095. | 1062 adj. |
| | 7.34 | 102.4535 | | | |
| | 6.52 | | | | |
| | | | 4.755 | | |
| P/P # 775 | | | 3.67 | 1098. | 7810 |
| | | | 2.595 | 1098. | 7725 adj. |
| | 5.47 | | | | |
| | 4.205 | 102.9860 | | | |
| | 2.94 | | | | |
| | | | 7.20 | | |
| T.P. | paint spot on top conc. canal 131' FROM N.E. COR. SCHOOL FNC. | | 6.075 | 1096. | 9097 ~~5782~~ |
| | | | 4.955 | 1096. | 9000 adj. |
| | 7.61 | | | | |
| | 6.37 | 103.2785 ~~102.9410~~ | | | |
| | 5.125 | | | | |

# VERTICAL CONTROL.

D. HAUGHT, P.E. 7-22-99

## 75TH AVE TO 67TH AVE (GRAND CANAL)

| STA | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | | ~~102.9410~~ 103.2785 | 7.49 | |
| ON CONC. TOP CANAL TP BY CHURCH | | | 5 4.975 | 1097.3047 ~~1096.9672~~ |
| | | | 4.455 | 1097.2938 adj. |
| | 6.98 | | | |
| | 5.76 | 103.0660 ~~102.7285~~ | | |
| | 4.545 | | | |
| | | | 7.625 | |
| ON CONC. TOP CANAL TP NEAR CANAL BEND | | | 6.000 | 1097.0647 ~~1096.7272~~ |
| | | | 4.38 | 1097.0526 adj |
| | 8.15 | | | |
| | 6.87 | .9347 ~~103.5972~~ | | |
| | 5.59 | | | |
| | | | 7.925 | |
| ON CONC. TOP CANAL TP 500' WEST 67TH | | | 6.61 | 1097.3260 ~~1096.9885~~ |
| | | | 5.29 | 1097.3127 adj |
| | 8.19 | | | |
| | 6.865 | 104.1910 ~~103.8535~~ | | |
| | 5.54 | | | |

## 67TH AVE TO INDIAN SCHOOL (GRAND CANAL) (24)

| STA | + | H.I | − | ELEV. |
|---|---|---|---|---|
| 500'W. OF 67TH T.P. | | 104.1910 ~~103.8535~~ | | |
| | | | 6.30 | |
| TOP WING WALL "Z-19" TP IRR. GATE VALVE | | | 4.765 | 1099.7247 ~~3972~~ |
| | | | 2.635 | 1099.7102 adj. |
| | 4.53 | | | |
| | 4.02 | .7422 103.~~4047~~ | | |
| | 3.50 | | | |
| 6.0E. 8.3N CITY OF PHOENIX B.C.F. B.M ON T/C | | | 4.62 | SRP (1099.4127) |
| BRIDGE 09310 ON 67th | | | 4.315 | 1099.4272 ✓ ~~1099.0897~~ |
| | | | 4.01 | |
| | 2.82 | | | 0.0145 / 12 = 0.0012 |
| | 2.46 | ~~.5497~~ 101.~~8727~~ .8727 ✓ | | |
| | 2.10 | | | |
| | | | 4.89 | |
| 200± E. OF 67th TP N. SIDE CANAL TOP | | | 4.32 | 1097.~~2272~~ ~~5502~~ .5502 |
| | | | 3.76 | |

VERTICAL CONTROL

67 TH AVE TO INDIAN SCHOOL (GRAND CANAL)

| STA | + | H.I | − | ELEV. | |
|---|---|---|---|---|---|
| | | | | 1097. | ~~.2272~~ ~~.5503~~ .5502 |
| | 6.90 | | | | |
| TP | 5.58 | ~~102.8060~~ ~~103.1290~~ 103.1290 | | | |
| | 4.255 | | | | |
| ACROSS SRP MAINTENANCE FACILITY | | | 7.17 | | |
| TP | | | 5.755 | 1097. | ~~.0510~~ ~~.3740~~ .3740 |
| | | | 4.34 | | |
| | 8.145 | | | | |
| | 6.87 | ~~103.9222~~ ~~104.2452~~ 104.2452 | | | |
| | 5.60 | | | | |
| | | | 8.475 | | |
| @ BEND OF CANAL TP | | | 7.03 | ~~1096.~~ ~~8935~~ ~~1097.~~ ~~2165~~ 1097. 2164 | |
| | | | 5.58 | | |
| | 7.59 | | | | |
| | 6.295 | ~~.7897~~ 103.~~5127~~ .5127 | | | |
| | 5.005 | | | | |

D. HAUGHT, P.C. 7-21-9

(26)

INDIAN SCHOOL TO 63 RD AVE (GRAND AVE)

| STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| T.P. | | ~~.1897~~ 103.~~5127~~ .5127 | | | |
| City of Phoenix on Wing Wall | | | 6.52 | SRP (1098.8759) | |
| B.C.F. B.M. | C.O.P. 6.3E | | 4.635 | 1098. | ~~.8765~~ 1098.8764 |
| Bridge # 9202 | | | 2.755 | | |
| | 6.10 | | | | |
| | 5.205 | 104.0809 ~~103.7630~~ | | | |
| | 4.31 | | | | |
| 2ND P/P SO. OF Indian School East side of Canal | | | 6.55 | | |
| P/P # | | | ~~4~~ 5.87 | 1098. | 2109 ~~1097.8930~~ |
| | | | 5.19 | 1098. | 2065 adj. |
| | 6.37 | | | | |
| | 5.05 | 103.2609 ~~102.9430~~ | | | |
| | 3.73 | | | | |
| | | | 5.94 | | |
| P/P # 6411 | | | 5.12 | 1098. | 1409 ~~1097.8230~~ |
| | | | 4.30 | 1098. | 1320 adj. |

# VERTICAL CONTROL

D. HAUGHT, P.C.

7-22-

(28)

INDIAN SCHOOL TO 63RD AVE (GRAND CANAL)

| STA | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 6.00 | | | 1098.1409 ~~1097.8330~~ |
| P/P #6411 | 5.33 | .4734 ~~103.1555~~ | | 1098.1320 adj. |
| | 4.67 | | | |
| | | | 6.36 | |
| P/P # 6343 | | | 5.67 | 1097. .8034 ~~1855~~ |
| | | | 4.98 | 1097.7901 adj. |
| | 6.875 | | | |
| | 6.20 | 104.0046 ~~103.6868~~ | | |
| | 5.53 | | | |
| | | | 5.975 | |
| P/P # 6321 | | | 5.285 | 1098. .7209 ~~4030~~ |
| | | | 4.59 | 1098.7032 adj. |
| | 6.055 | | | |
| | 5.24 (3) | .9509 ~~103.6330~~ | | |
| | 4.41 | | | |
| | | | 6.09 | |
| NAIL TP UNDER SHADE TREE | | | 5.02 | 1098. .9309 ~~.6130~~ |
| | | | 4.95 (3) | 1098.9087 adj. |

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 5.83 | | | |
| NAIL TP UNDER SHADE TREE | 5.43 | .3596 ~~104.0418~~ | | 1098.9309 |
| | 5.025 | | | 1098.9043 adj. |
| 6.5E 7.8N SRP B.C. TOP HEADWALL SOUTH SIDE CANAL @ 63 RD AVE | | | 6.36 | (SRP 1098.5580) |
| | | | 5.775 | ~~1098.2668~~ |
| | | | 5.19 | 1098.5846 |
| | 0.0266/6 = 0.0044 | | | |

# VERTICAL CONTROL

D. HAUGHT, P.C., 7-23-99

(30)

## BENCHMARK CHECK

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| .. | 3.93 | | | |
| BM COP 6.3E | 3.29 | 102.1634 | | 1098.8759 |
| | 2.64 | | | |
| | | | 4.07 | (1098.3179) |
| BM 6.3E 8.0N. | | | 3.835 | 1098.3284 |
| | | | 3.60 | |
| | 4.16 | | | |
| | 3.925 | 102.253 | | |
| | 3.69 | | | |
| | | | 4.03 | |
| BM C.O.P 6.3E | | | 3.38 | 1098.8734 |
| | | | 2.73 | |

## LEVEL LOOP CHECK

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| 77"S P/P | 2.38 | | | 1098.7810 |
| | 1.99 | 100.7735 | | |
| | 1.61 | | | |
| | | | 7.40 | (1093.5705) |
| BM 055085 | | | 7.20 | 1093.5735 |
| | | | 7.00 | |
| | 7.46 | | | |
| | 7.26 | 100.8360 | | |
| | 7.07 | | | |
| | | | 2.44 | |
| 77"S P/P | | | 2.06 | 1098.7785 |
| | | | 1.67 | |

# VERTICAL CONTROL

D. HAUGHT, P.C.

7-23-9

(32)

## 75TH AVE TO 67TH (CAMELBACK)

| STA | + | H.I. | − | ELEV |
|---|---|---|---|---|
| @ 75TH SRP | | | | 1097.0622 |
| BM # 050090 | 4.64 | | | |
| | 4.44 | 101.5034 | | |
| | 4.245 | | | |
| | | | 6.885 | |
| 75th & CAMELBACK B.C. HH. | | | 6.245 | 1095.2584 |
| | | | 5.605 | |
| | 6.79 | | | |
| | 6.15 | 101.4084 | | |
| | 5.51 | | | |
| | | | 4.545 | SRP (1097.0622) |
| BM # 050090 | | | 4.35 | 1097.0597 |
| | | | 4.15 | |
| | 4.625 | | | |
| | 3.71 | 100.7709 | | |
| | 2.79 | | | |

## 75TH AVE. TO 59TH AVE (CAMELBACK)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | | | 5.91 | |
| TP 1 | | | 3.62 | 1097.1597 |
| | | | 1.315 | 1097.1613 adj |
| | 7.08 | | | |
| | 5.845 | 103.0047 | | |
| | 4.61 | | | |
| | | | 5.94 | |
| T.P. 2 T/C N. SIDE C.B @ 73RD AVE. | | | 4.55 | 1098.4522 |
| | | | 3.17 | 1098.4555 adj |
| | 6.73 | | | |
| | 5.50 | 103.9547 | | |
| | 4.28 | | | |
| | | | 6.08 | |
| T.P.3 | | | 4.51 | 1099.4472 |
| | | | 2.93 | 1099.4521 adj |

# VERTICAL CONTROL

D. HAUGHT, P.C.

7-23-9

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75TH AVE TO 67TH AVE (CAMEL BACK)

| STA | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| | 6.745 | | | | |
| T.P. 3 | 5.57 | 105.0172 | | 1099. | 4472 |
| T/C N. C.B. | 4.395 | | | 1099. | 4521 adj |
| | | | 6.24 | | |
| T.P. 4 | | | 4.59 | 1100. | 4272 |
| T/C N.C.B. NEAR 71ST DR. | | | 2.94 | 1100. | 4337 adj |
| | 5.59 | | | | |
| | 5.22 | 105.6472 | | | |
| | 4.85 | | | | |
| | | | 5.425 | | |
| CP #25 | | | 4.97 | 1100. | 6760 |
| | | | 4.52 | 1100. | 6842 adj |
| | 7.165 | | | | |
| | 5.75 | 106.4247 | | | |
| | 4.33 | | | | |
| | | | 6.04 | | |
| TP. 5 | | | 4.76 | 1101. | 6672 |
| | | | 3.47 | 1101. | 6770 adj |

| STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| T.P. 5 | | | | 1101.6672 | |
| | 7.22 | | | 1101.6770 adj. | |
| | 5.915 | 107.5822 | | | |
| | 4.61 | | | | |
| | | | 5.76 | | |
| TP 6 | | | 4.77 | 1102. 8135 | |
| | | | 3.775 | 1102. 8249 adj. | |
| | 7.38 | | | | |
| | 6.08 | 108.8935 | | | |
| | 4.78 | | | | |
| | | | 6.23 | | |
| TP 7 | | | 4.61 | 1104. 2822 | |
| T/C N. SIDE 68TH PL. | CAMEL BACK | | 2.995 | 1104. 2953 adj. | |
| | 7.265 | | | | |
| | 6.03 | 110.3110 | | | |
| | 4.79 | | | | |

# VERTICAL CONTROL

D. HAUGHT, P.C.,

7-23-9

(36)

## 75TH AVE TO 67TH AVE (CAMEL. BACK RD)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| TP 7 | | 110.3110 | | |
| | ~~5.85~~ | | 5.85 | |
| | ~~4.675~~ | | 4.675 | 1105. 6360 |
| | ~~3.50~~ | | 3.50 | 1105. 6507 adj. |
| | 7.435 | | ~~7.435~~ | |
| | 6.205 | 111.8435 | ~~6.205~~ | |
| | 4.985 | | ~~4.985~~ | |
| | | | 6.00 | |
| # 1 C.P. 24 | | | 3.93 | 1107. 9160 |
| | | | | 1107. 9323 adj. |
| | | | 1.85 | |
| | 5.89 | | | |
| | 5.18 | 113.0960 | | |
| | 4.47 | | | |
| | | | 5.70 | |
| 67th & C.B. H.H. | | | 5.32 | 1107. 7760 |
| | | | | 1107. 7940 adj. |
| | | | 4.94 | |
| | 5.755 | | | |
| | 5.38 | 113.1535 | | |
| | + 1.995 | | | |

## 67TH AVE TO 63RD AVE (CAMEL BACK RD)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| 67th & C.B. H.H. | | 113.1535 | | |
| | | | 6.03 | |
| T/C N. SIDE C.B. T.P. 8 NEAR 2ND E. OF 67th | | | 4.505 | 1108. 6460 |
| | | | | 1108. 6656 adj. |
| | | | 2.99 | |
| | 6.795 | | | |
| | 5.59 | 114.2360 | | |
| | 4.385 | | | |
| | | | 5.78 | |
| T/C N. SIDE C.B T.P. 9 ACROSS FROM FAITH CHAPEL | | | 4.275 | 1109.9610 |
| | | | | 1109. 9822 adj. |
| | | | 2.77 | |
| | 6.56 | | | |
| | 4.895 | 114.8560 | | |
| | 3.23 | | | |
| | | | 4.96 | |
| T.P 9 | | | 3.69 | 1111. 1635 |
| | | | | 1111. 1865 adj. |
| | | | 2.43 | |
| | 6.31 | | | |
| | 4.955 | 116.1185 | | |
| | 3.60 | | | |

# VERTICAL CONTROL

D. HAUGHT, RC. 7-23-

## 67TH AVE TO 63RD AVE (CAMEL BACK RD)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| T.P 9 | | 116.1185 | | |
| | | | 5.18 | |
| T/C. N. side C.B. | | | | |
| T.P. 10 | | | 3.95 | 1112.1710 |
| @ 63rd Lane | | | | |
| | | | 2.71 | 1112.1955 adj. |
| | 6.20 | | | |
| | 4.915 | 117.0860 | | |
| | 3.63 | | | |
| | | | 5.53 | |
| CP #16 | | | 3.98 | 1113.1035 |
| | | | | 1113.1296 adj. |
| | | | 2.44 | |
| | 6.10 | | | |
| | 5.43 | 118.5335 | | |
| | 4.76 | | | |
| | | | 4.95 | |
| 63rd AVE & C.B. | | | | |
| B.C.F. | | | 4.555 | 1113.9785 |
| | | | 4.16 | 1114.0062 adj. |
| | 6.17 | | | |
| | 4.88 | 118.8610 | | |
| | 3.60 | | | |

## 63RD AVE TO 59TH AVE (CAMEL BACK RD)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| 63rd AVE & C.B. | | | | |
| B.C.F. | | 118.8610 | | |
| | | | 5.55 | |
| T/C N. C.B. | | | | |
| T.P. 11 | | | 4.04 | 1114.8210 |
| @ 62nd Dr. | | | | |
| | | | 2.53 | 1114.8504 adj. |
| | 6.46 | | | |
| | 5.16 | 119.9810 | | |
| | 3.86 | | | |
| | | | 5.09 | |
| T.P. 12 | | | 3.64 | 1116.3410 |
| | | | 2.19 | 1116.3720 adj. |
| | 6.86 | | | |
| | 5.67 | 122.0110 | | |
| | 4.48 | | | |
| | | | 5.53 | |
| T/C N. C.B. | | | | |
| T.P. 13 | | | 3.84 | 1118.1710 |
| @ 60th Dr. | | | | |
| | | | 2.15 | 1118.2036 adj. |
| | 6.83 | | | |
| | 5.35 | 123.5185 | | |
| | 3.86 | | | |

# VERTICAL CONTROL

D. HAUGHT, P.C.

## 63RD AVE TO 59TH AVE (CAMEL BACK RD)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| T.P. 13 | | 123.5185 | | |
| | | | 4.83 | |
| T/c S.C.B. | | | | |
| T.P. 14 | | | 3.305 | 1120. 2160 |
| | | | 1.77 | 1120. 2503 adj. |
| | 5.77 | | | |
| | 4.53 | 124.7480 | | |
| | 3.29 | | | |
| | | | 5.075 | |
| 59th AVE & Camelback | | | | |
| B.C. H.H | | | 3.91 | 1120. 8373 |
| | | | 2.74 | 1120. 8716 adj. |
| | 5.71 | | | |
| | 5.33 | 126.1673 | | |
| | 4.95 | | | |
| | | | 5.25 | |
| CP #17 J | | | 5.12 | 1121. 0473 |
| | | | 4.99 | 1121. 0848 adj. |
| | 6.325 | | | |
| | 5.13 | 126.1773 | | |
| | 3.935 | | | |

## CAMELBACK TO MISSOURI (59TH AVE)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| CP #17 | | 126.1773 | | |
| T/C N.W. COR | 59TH & MEDLOCK Dr. | | 6.315 | |
| TP #15 | | | 4.26 | 1121. 9186 |
| | | | 2.20 | 1121. 9578 adj. |
| | 7.255 | | | |
| | 5.885 | 127.8023 | | |
| | 4.51 | | | |
| | | | 4.98 | |
| CP #18 ✓ | | | 3.09 | 1124. 7123 |
| | | | 1.20 | 1124. 7531 adj. |
| | 6.63 | | | |
| | 5.37 | 130.0836 | | |
| | 4.115 | | | |
| | | | 6.205 | |
| TP #16 | | | 3.74 S | 1126. 3348 |
| N. BCR @ 5322 59TH AVE | | | 1.29 | 1126. 3772 adj. |

# VERTICAL CONTROL

## CAMELBACK TO MISSOURI (59TH AVE)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| TP #16 | | | | 1126.3348 |
| | 7.075 | | | 1128.3772 adj. |
| | 5.97 | 132.3036 | | |
| | 4.86 | | 6.185 | |
| STONE IN H.H. 59TH & MISSOURI | | | 4.595 | 1127.7098 |
| | | | 3.00 | 1127.7539 adj. |
| | 6.295 | | | |
| | 5.89 | 133.5986 | | |
| | 5.48 | | | |
| | | | 5.362 | |
| CP #19 ✓ | | | 5.268 | 1128.3306 |
| | | | 5.174 | 1128.3763 adj. |
| | 5.417 | | | |
| | 5.323 | 133.6536 | | |
| | 5.229 | | | |
| T.O.E 9.5N BM 070095 @ S.W. COR MISSOURI & 59th | | | 5.503 | (1128.2986) |
| | | | 5.401 | 1128.2529 |
| | | | 5.298 | |

-0.0457/29 = -0.0016

# D. HAUGHT, P.C.

## MISSOURI AVE (@59TH AVE) TO GRAND CANAL

| STA | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| 070095 BM | | | | 1128.2986 |
| | | | | 1128.2529 |
| | 5.45 | | | |
| | 3.86 | .1611 132.4154 | | |
| | 2.28 | | | |
| | | | 7.99 | |
| T/C S. MISSOURI T.P. 17 100' E. Three Fountains entr. | | | 6.40 | 1125.7611 |
| | | | | 1125.7650 adj. |
| | | | 4.81 | |
| | 6.065 | | | |
| | 4.86 | .6223 130.5788 | | |
| | 3.66 | | | |
| | | | 7.33 | |
| B/W N.E. COR T.P. 18 Missouri & Trailer Park emergency entr. | | | 6.045 | 1124.5773 |
| | | | | 1124.5852 adj. |
| | | | 4.76 | |
| | 6.735 | | | |
| | 5.18 | .7585 129.7129 | | |
| | 3.63 | | | |

# VERTICAL CONTROL

D. HAUGHT, P.C. 7-24-99



MISSOURI AVE. (59TH AVE. to GRAND CANAL)

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| TP 18 | | .7585 129.7729 | | |
| | | | 7.575 | |
| T/C BCR (S.W.) | | | | |
| TP 19 | | | 6.32 | 1123. .4398 3944 |
| MISSOURI & 61ST LANE | | | | 1123. 4516 adj. |
| | | | 5.06 | |
| | 5.62 | | | |
| | | .8023 | | |
| | 4.36 | 127.7566 | | |
| | 3.11 | | | |
| | | | 7.81 | |
| TP 20 | | | 6.31 | 1121. .4948 4491 |
| | | | 4.80 | 1121. 5105 adj. |
| | 3.923 | | | |
| | 3.331 | .8256 124.7799 | | |
| | 2.738 | | | |
| | | | 4.75 | |
| CP #20 | | | 4.082 | 1120. .7440 6994 |
| | | | 3.412 | 1120. 7637 adj. |

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 5.65 | | | |
| CP #20 | 5.105 | .8490 125.8034 | | .7440 1120. 6984 |
| | 4.56 | | | 1120. 7637 adj. |
| | | | 5.729 | |
| MISSOURI & 63RD B.C.F. | | | | .4168 |
| | | | 5.432 | 1120. 3744 |
| | | | 5.136 | 1120. 4404 adj. |
| | 5.83 | | | |
| | 4.61 | 125.0268 124.9824 | | |
| | 3.39 | | | |
| | | | 6.775 | |
| T/C BCR T.P. 21 S.E. COR MISSOURI & 64th | | | 5.60 | .4268 1119. 3844 |
| | | | 4.425 | 1119. 4544 adj. |
| | 5.98 | | | |
| | 4.67 | .0968 124.9544 | | |
| | 3.36 | | | |
| | | | 7.005 | |
| WEST T/C BCR TP 22 @ O'NEIL PARK ENTR. | | | 5.75 | .3455 1118. 2999 |
| | | | 4.50 | 1118. 3770 adj. |

# VERTICAL CONTROL

D. HAUGHT, P.C. 7-24-



## MISSOURI AVE (59TH AVE TO GRAND CANAL)

| STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| TP 22 | 6.02 | | | 1118. | .3455 ~~.2999~~ |
| | 4.81 | .1556 123.~~1099~~ | | 1118. | 3770 adj. |
| | 3.60 | | | | |
| | | | 7.495 | | |
| T/C EAST SIDE | | | | | |
| TP 23 | | | 5.98 | 1117. | .1755 ~~.1299~~ |
| OF EXIT OF | | | | | |
| JACK ELEM. Sch. | | | 4.465 | 1117. | 2109 adj. |
| | 5.815 | | | | |
| | 4.50 | .6768 121.~~6311~~ | | | |
| | 3.19 | | | | |
| | | | 7.84 | | |
| T/C BCR SE. COR. | | | | | .5768 ~~.5311~~ |
| TP 24 | | | 6.10 | 1115. | |
| @ MISSOURI & | | | | 1115. | 6162 adj. |
| 66th Dr. | | | 4.36 | | |
| | 5.69 | | | | |
| | 4.41 | .9868 119.~~9411~~ | | | |
| | 3.13 | | | | |
| | | | 4.966 | | |
| MISSOURI & 67TH | | | | | .3985 |
| B.C. HH | | | 4.588 | 1115. | ~~.3529~~ |
| | | | 4.211 | 1115. | 4418 adj. |

| STA | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| MISSOURI & 67TH | 5.211 | | | 1115. | .3985 ~~.3529~~ |
| H.H. B.C. | 4.861 | .2598 120.~~2141~~ | | 1115. | 4418 adj. |
| | 4.512 | | | | |
| | | | 5.982 | | |
| ✓ | | | | | |
| C.P. 21 | | | 5.704 | 1114. | .5553 ~~.5096~~ |
| | | | 5.428 | 1114. | 6025 adj. |
| | 5.62 | | | | |
| | 4.535 | .0903 119.~~0440~~ | | | |
| | 3.45 | | | | |
| | | | 9.19 | | |
| T/C @ END CURB | | | | | .7528 ~~.7071~~ |
| T.P 25 | | | 7.34 | 1111. | |
| 100 I EAST 68TH AVE | | | | 1111. | 8040 adj. |
| N. SIDE MISSOURI | | | 5.48 | | |
| | 6.07 | | | | |
| | 4.76 | .5128 116.~~4671~~ | | | |
| | 3.45 | | | | |
| | | | 8.04 | | |
| T/C B/CR NE COR | | | | | .2928 ~~.2471~~ |
| T.P. 26 | | | 6.22 | 1110. | |
| MISSOURI & 69TH AVE | | | | 1110. | 3479 adj. |
| | | | 4.40 | | |

# VERTICAL CONTROL

D. HAUGHT, P.C. 7-24-99



MISSOURI AVE (59TH AVE TO GRAND CANAL)

| STA | + | H.I | - | ELEV | |
|---|---|---|---|---|---|
| | 5.995 | | | | |
| TP 26 | 4.66 | .9515 114.~~9059~~ | | 1110. | .2928 ~~2471~~ |
| | 3.32 | | | 1110. | 3479 |
| | | | 7.87 | | |
| T.P. 27 | | | 6.19 | 1108. | .7628 ~~7171~~ |
| | | | 4.505 | 1108. | 8219 adj. |
| | 5.85 | | | | |
| | 4.60 | .3590 113.~~3171~~ | | | |
| | 3.35 | | | | |
| BCF @ TP 28 | 71ST AVE | | 7.87 | | |
| | | | 5.95 | 1107. | .4115 ~~3696~~ |
| | | | 4.02 | 1107. | 4745 adj. |
| | 5.448 | | | | |
| | 5.032 | .4440 112.~~4021~~ | | | |
| | 4.618 | | | | |
| | | | 5.947 | | |
| 1/4 COR BCF ON MISSOURI | | | 5.605 | 1106. | .8387 ~~7969~~ |
| | | | 264 5.~~629~~ | 1106. | 9056 adj |

| STA | + | H.I | - | ELEV | |
|---|---|---|---|---|---|
| | 6.03 | | | | |
| 1/4 COR, B.C.F. | 4.885 | .7237 111.~~6819~~ | | 1106. | .8387 ~~7969~~ |
| | 3.74 | | | 1106. | 9056 adj. |
| | | | 7.595 | | |
| CP #22 | | | 6.385 | 1105. | .3387 ~~2969~~ |
| | | | 5.175 | 1105. | 4096 adj. |
| | 19 6.~~225~~ | | | | |
| | 5.12 ~~4.81~~ | .4587 110.~~4159~~ | | | |
| | 4.05 ~~3.365~~ | | | | |
| T/C WEST OF DRIVE TP. 29 7232 W. MISSOURI | | | 6.93 | | |
| | | | 5.69 | 1104. | .7687 ~~7269~~ |
| | | | 4.45 | 1104. | 8435 adj. |
| | 5.92 | | | | |
| | 4.83 | .5987 109.~~5569~~ | | | |
| | 3.74 | | | | |
| | | | 9.225 | | |
| B.C.R. EAST SIDE T.P. 30 73RD DR. | | | 7.305 | 1102. | .2937 ~~3519~~ |
| | | | .385 5.~~835~~ | 1102. | 3724 adj. |

VERTICAL CONTROL D. HAUGHT, P.C. 7-24-99

MISSOURI AVE (59TH AVE) TO (GRAND CANAL)

(50)

| STA | + | H.I. | − | ELEV. | | STA | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T.P. 30 | 5.485 | | | | | | 5.822 | | | | |
| | 4.335 | 106.~~5839~~ .6287 | | 1102. | ~~2519~~ .2937 | Mi. & 75th B.C. H.H | 5.485 | 103.~~3159~~ .8577 | | 1098. | ~~3311~~ .3730 |
| | 3.185 | | | 1102. | 3724 adj. | | 5.147 | | | 1098. | 4636 adj. |
| | | | 6.85 | | | | | | 5.681 | | |
| T/C T.P. 31 | | | 5.803 | 1100. | ~~7854~~ .8272 | CP #23 | | | 5.318 | 1098. | ~~4986~~ .5405 |
| | | | 4.75 | 1100. | 9099 adj. | | | | 4.952 | 1098. | 6350 adj. |
| | 5.927 | | | | | | 5.74 | | | | |
| | 5.012 | 105.~~7961~~ .8380 | | | | | 4.59 | 103.~~0911~~ .1330 | | | |
| | 4.092 | | | | | | 3.45 | | | | |
| | | | 7.105 | | | | | | 7.788 | | |
| TP 32 | | | 5.948 | 1099. | ~~8486~~ .8905 | EAST BCR TP 33 | | | 6.764 7. | 1096. | ~~3366~~ .3685 |
| | | | 4.789 | 1099. | 9771 adj. | | | | 5.742 | 1096. | 4669 adj. |
| | 5.689 | | | | | | 4.662 | | | | |
| | 4.698 | 104.~~5464~~ .5882 | | | | | 3.470 | 99.~~7959~~ .8377 | | | |
| | 3.706 | | | | | | 2.275 | | | | |
| | | | 6.578 | | | | | | 7.65 | | |
| MISSOURI & 75TH BC HH | | | 6.215 | 1098. | ~~3311~~ .3730 | TP 34 | | | 6.30 | 1093. | ~~4934~~ .5352 |
| | | | 5.853 | 1098. | 4636 adj. | | | | 4.96 | 1093. | 6376 adj. |

VERTICAL CONTROL D. HAUGHT, P.C. 7-25-

(52)

MISSOURI AVE (59TH AVE TO GRAND CANAL) BM CHECK (63RD AVE TO 59TH AVE)

| STA | + | H.I. | − | ELEV. | | STA. | + | H.I | − | ELEV. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5.902 | | | | | | 5.165 | | | | |
| TP 34 | 797 ~~4.97~~ | .3330 98.~~2911~~ | | 1093. | .5352 ~~4934~~ | 6.5E 7.5N BM | 4.01 | .5692 102.~~7897~~ | | 1098. | 5580 |
| | 3.695 | | | 1093. | 6376 adj. | | 2.86 | | | | |
| | | | 6.75 | | | | | | 4.57 | | |
| BCR NW. COR. TP 35 | | | 5.28 | 1093. | .0530 ~~0111~~ | NAIL NEAR T.P | | | 2.80 | 1099. | .7667 ~~9872~~ |
| MISSOURI & 76th DR | | | 3.81 | 1093. | 1593 adj. | OLEANDERS N. Canal | | | 1.04 | | |
| | 5.45 | | | | | | 4.855 | | | | |
| | 4.02 | .0717 97.~~0299~~ | | | | | 3.62 | .3855 103.~~6060~~ | | | |
| | 2.585 | | | | | | 2.38 | | | | |
| | | | 8.21 | 1090. (1090. | 5780 adj. 6061) | | | | 6.315 | | |
| MISSOURI & 77TH LANE BCF | | | 6.60 | 1090. | .4717 ~~4399~~ | ON CONC. CANAL T.P N. SIDE | | | 4.80 | 1098. | .5842 ~~8047~~ |
| | | | 4.99 | | | | | | 3.29 | | |
| | −0.1063 /27 TURNS = 0.0039 / turn error | | | | | | 6.55 5.41 4.27 | 103.9942 ~~104.2147~~ | | | |
| | | | | | | | | | 3.215 | | |
| | add | | | | | P/P # 6041 | | | 2.275 | 1101. | .7180 ~~9385~~ |
| | | | | | | | | | 1.34 | | |

# VERTICAL CONTROL

D. HAUGHT, P.C. 7-25-99

(54)

## BENCHMARK CHECK (63rd AVE TO 59TH AVE)

| STA | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 3.54 | | | |
| P/P 6041 | 2.67 | .3880 104.~~6085~~ | | 1101. .7180 ~~.9385~~ |
| | 1.80 | | | |
| | | | 4.40 | |
| P/P | | | 3.56 | 1100. ~~1101.~~ .8267 ~~.0472~~ |
| P/P 15 EE=10E T.P. | | | 2.725 | |
| | 4.82 | | | |
| | 3.935 | .7617 104.~~4322~~ | | |
| | 3.05 | | | |
| | | | 4.23 | |
| P/P | | | 3.395 | 1101. .3667 ~~.5872~~ |
| | | | 2.56 | |
| | 4.955 | | | |
| | 4.068 | .4352 105.~~6555~~ | | |
| | 3.182 | | | |
| | | | 5.07 | |
| P/P | | | 4.21 | 1101. .2227 ~~.4442~~ |
| | | | 3.355 | |

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 5.49 | | | |
| P/P | 4.565 | 105.7890 ~~105.9135~~ | | |
| | 3.645 | | | |
| | | | 6.143 | 5KP (1100. 2413) |
| 070080 BM. 7.0 E 8.0 N | | | 5.553 | 1100. .2350 ~~.1570~~ |
| | | | 4.965 | |
| | 5.96 | | | |
| | 5.368 | .6030 105.~~8350~~ | | |
| | 4.776 | | | |
| | | | 5.83 | |
| T/C B.C.R. T.P. S.W. COR. Clarendon & 59TH AVE | | | 5.17 | 1100. .4330 ~~.4550~~ |
| | | | 4.51 | |

# VERTICAL CONTROL

D. HAUGHT, P.C. 7-26-99

(56)

| STA | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| @ 99 ℄ MCC BM | 2.066 | | | | |
| GRAND CANAL | 1.956 | 64.1320 | | 1062. | 1758 |
| | 1.847 | | | | |
| | | | 5.044 | | |
| | | | 4.947 | | |
| CP #29 ✓ | | | 4.848 | 1059. | 1856 |
| | 4.928 | | | | |
| | 4.829 | 64.0143 | | | |
| | 4.729 | | | | |
| | | | 1.949 | (1062. | 1758) |
| @ 99TH ℄ GRAND CANAL | | | 1.838 | 1062. | 1760 |
| M.C. BM. | | | 1.728 | | |

| STA | + | H.I. | − | ELEV | |
|---|---|---|---|---|---|
| P/P # 96 | 3.434 | | | | |
| | 3.214 | 65.0952 | | 1061. | 8810 |
| | 2.995 | | | | |
| | | | 5.663 | | |
| CP # 28 ✓ | | | 5.443 | 1059. | 6517 |
| | | | 5.225 | | |
| | 5.77 | | | | |
| | 5.552 | 65.2037 | | | |
| | 5.334 | | | | |
| | | | 3.543 | (1061. | 8810) |
| P/P 96 | | | 3.322 | 1061. | 8817 |
| | | | 3.101 | | |
| | 3.427 | | | | |
| | 3.205 | 65.0860 | | | |
| | 2.983 | | | | |
| | | | 7.329 | | |
| TP 1 TOP IRR. CANAL | | | 6.115 | 1058. | 9710 |
| | | | 4.901 | 1058. | 9713 adj. |

# VERTICAL CONTROL

D. HAUGHT, P.C. 7-26-99



| STA | + | H.I | − | ELEV. |
|---|---|---|---|---|
| | 4.852 | | | |
| TP1 | 3.699 | 62.6692 | | 1058.9710 |
| | 2.542 | | | 1058.9713 adj. |
| | | | 5.811 | |
| TP2 | | | 4.588 | 1058.0807 |
| TOP INV. CHNNL | | | 3.367 | 1058.0813 |
| | 4.642 | | | |
| | 3.778 | 61.8585 | | |
| | 2.913 | | | |
| | | | 6.024 | |
| CP 30 | | | 5.488 | 1056.3700 |
| | | | 4.954 | ~~1056.0009~~ adj: |
| | 6.091 | | | |
| | 5.558 | 61.9270 | | |
| | 5.021 | | | |
| | | | 4.712 | |
| TP2 | | | 3.847 | 1058.0800 |
| | | | 1.871 | 1058.0812 |

| STA | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 5.751 | | | |
| T.P.2 | 4.569 | 62.6495 | | |
| | 3.389 | | | |
| | | | 4.878 | |
| TP1 | | | 3.679 | 1058.9692 |
| | | | 2.485 | 1058.9707 |
| | 7.119 | | | |
| | 5.951 | 64.9200 | | |
| | 4.782 | | | |
| | | | 3.233 | (1061.8810) |
| P/P 96 | | | 3.041 | 1061.8795 |
| | | | 2.847 | |

# VERTICAL CONTROL

D. HAUGHT, P.C. 7-26-9



| STA. | + | H.I | − | ELEV. | | STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BM SRP | 3.994 | | | | | | 4.45 | | | | |
| @ 91ST AVE & GRAND CANAL | 3.869 | 72.9227 | | 1069. | 0532 | CP 26 | 2.95 | 76.6289 | | 1073. | 6789 |
| GATE Z*22 | 3.743 | | | | | | 1.45 | | | | |
| | | | 4.940 | | | | | | 7.22 | | |
| C.P. 27 | | | 4.852 | 1068. | 0702 | CP 32 | | | 5.54 | 1071. | 0864 |
| | | | 4.766 | | | | | | 3.87 | | |
| | 5.021 | | | | | | 7.315 | | | | |
| | 4.934 | 73.0042 | | | | | 5.64 | 76.7289 | | | |
| | 4.847 | | | | | | 3.975 | | | | |
| | | | 4.074 | (1069. | 0532) | | | | 4.55 | (1073. | 6709) |
| BM SRP | | | 3.951 | 1069. | 0534 | CP 26 | | | 3.04 | 1073. | 6864 |
| GATE Z*22 | | | 3.827 | | | | | | 1.54 | | |

VERTICAL CONTROL D. HAUGHT, P.C. 7-25-99

(62)

| STA. | + | H.I. | − | ELEV. | | STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BM #93 | 5.949 | | | | | @ P.C. ℄ 77TH LANE | | | | | |
| @ 85TH BM SRP | 4.867 | 93.6186 | | 1088. | 7506 | B.C.F. | 7.568 | | | | |
| [illegible] CANAL | 5.789 | | | | | | 7.091 | 98.0503 | | 1090. | 9593 |
| 4.0E 10.0N | | | 8.82 | | | | 6.614 | | | | |
| TRIG STATION | | | 7.855 | 1085. | 7636 | | | | 5.596 | | |
| | | | 6.89 | | | CP #5 | | | 5.129 | 1092. | 9206 |
| | 9.313 | | | | | | | | 4.665 | | |
| | 8.872 | 94.6356 | | | | | 5.721 | | | | |
| | 8.431 | | | | | | 5.255 | 98.1756 | | | |
| | | | 5.888 | | | | 4.789 | | | | |
| CP. #3 | | | 5.549 | 1089. | 0861 | | | | 7.693 | | |
| | | | 5.212 | | | @ P.C. ℄ 77 TH Ln. B.C.F. | | | 7.217 | 1090. | 9595 |
| | 4.91 | | | | | | | | 6.737 | | |
| | 3.862 | 92.9483 | | | | | | | | | |
| | 2.815 | | | | | | | | | | |
| | | | 3.429 | (1090. | 4053) | | | | | | |
| P/P #18 | | | 2.532 | 1090. | 4163 | | | | | | |
| | | | 1.635 | | | | | | | | |

# VERTICAL CONTROL

D. HAUGHT, P.C. 7-25-99

(64)

| STA. | + | H.I. | - | ELEV. | |
|---|---|---|---|---|---|
| 9.0N 5.0E | 4.814 | | | | |
| SRP BM #050090 | 4.707 | 101.7700 | | 1097.0622 | |
| | 4.603 | | | | |
| | | | 5.707 | | |
| CP 6 ✓ | | | 5.586 | 1096.1844 | |
| | | | 5.463 | | |
| | 5.790 | | | | |
| | 5.667 | 101.8579 | | | |
| | 5.546 | | | | |
| 5.0E 7.0N | | | 4.898 | | |
| SRP BM #050090 | | | 4.792 | 1097.0604 | |
| | | | 4.684 | | |

| STA. | + | H.I. | - | ELEV. | |
|---|---|---|---|---|---|
| | 5.701 | | | | |
| NAIL TP NEAR P/P 9 | 5.016 | 102.2579 | | 1097.2424 | |
| | 4.329 | | | | |
| | | | 5.764 | | |
| CP #7 ✓ | | | 5.448 | 1096.8099 | |
| | | | 5.132 | | |
| | 5.836 | | | | |
| | 5.521 | 102.3311 | | | |
| | 5.207 | | | | |
| | | | 5.778 | | |
| NAIL TP NEAR P/P 9 | | | 5.089 | 1097.2414 | |
| | | | 4.463 | | |

| STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| | 4.797 ~~4.885~~ | | | | |
| | 4.636 ~~4.747~~ | .4090 1103.~~5175~~ | | 1098. | 7725 |
| P/P 77's" | 4.477 ~~4.604~~ | | | | |
| | | | 5.511 ~~5.636~~ | | |
| CP 8" ✓ | | | 5.420 ~~5.529~~ | 1097. | 9892 |
| | | | 5.328 ~~5.434~~ | | |
| | 5.713 | | | | |
| | 5.615 | 1103.6045 | | | |
| | 5.518 | | | | |
| | | | 4.973 | | |
| P/P 77's" | | | 4.834 | 1098. | 7702 |
| | | | 4.696 | | |

| STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| | 7.122 | | | | |
| ON TOP CANAL TP 500± West OF 67TH AVE | 6.386 | 1103.6984 | | 1097. | 3127 |
| | 5.649 | | | | |
| | | | 5.372 | | |
| CP 9 ✓ | | | 4.639 | 1099. | 0687 |
| | | | 3.889 | | |
| | 5.199 | | | | |
| | 4.454 | 1103.5227 | | | |
| | 3.709 | | | | |
| ON TOP CANAL | | | 6.942 | | |
| TP 500± West OF 67TH AVE | | | 6.209 | 1097. | 3144 |
| | | | 5.473 | | |

| STA | + | H.I. | − | ELEV. | | STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8.3N 60E @ 67TH Ave BM COP & GRAND CANAL | 4.860 | | | | | | 5.543 | | | | |
| | 4.775 | 1104.1880 | | 1099. | 4127 | @ INDIAN SCHOOL BM C.O.P. & GRAND CANAL | 5.087 | 1103.9621 | | 1098. | 8759 |
| | 4.691 | | | | | | 4.628 | | | | |
| | | | 4.950 | | | | | | 5.254 | | |
| C P 10 ✓ | | | 4.793 | 1099. | 3949 | C.P. 11 ✓ | | | 5.187 | 1098. | 7751 |
| | | | 4.636 | | | | | | 5.120 | | |
| | 4.657 | | | | | | 5,086 | | | | |
| | 4.498 | 1103.8922 | | | | | 5.016 | 1103.7914 | | | |
| | 4.336 | | | | | | 4.947 | | | | |
| 8.3 N. 6.0 E. @ 67TH AVE & GRAND CANAL | | | 4.567 | | | @ INDIAN SCHOOL & GRAND CANAL | | | 5.371 | | |
| BM C.O.P. | | | 4.479 | 1099. | 4132 | B.M. C.O.P. | | | 4.914 | 1098. | 8769 |
| | | | 4.391 | | | | | | 4.459 | | |

| STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| 7.8 N 6.5 E | 5.179 | | | | |
| BM SRP | 5.013 | 1103.5710 | | 1098. | 5580 |
| | 4.847 | | | | |
| | | | 5.502 | | |
| CP 12 | | | 5.443 | 1098. | 1282 |
| | | | 5.383 | | |
| | 5.597 | | | | |
| | 5.538 | 1103.6665 | | | |
| | 5.480 | | | | |
| 7.8 N 6.5 E | | | 5.275 | | |
| B.M. S.R.P | | | 5.109 | 1098. | 5570 |
| | | | 4.945 | | |

| STA. | + | H.I | − | ELEV. | |
|---|---|---|---|---|---|
| GATE 2×22 | 4.443 | | | | |
| @ 91ST | | | | | |
| BM SRP | 3.315 | 72.3689 | | 1069. | 0532 |
| & GRAND CANAL | 2.19 | | | | |
| | | | 7.105 | | |
| N.E. COR. | ON S.W. | | | | |
| T.P. 1 | | | 5.480 | 1066. | 8859 |
| @ 91ST AVE & ROVEY AVE | | | 3.867 | | |
| | 7.322 | | | | |
| | 6.207 | 73.0942 | | | |
| | 5.097 | | | | |
| | | | 6.127 | | |
| W. edg. S.W. | | | | | |
| TP 2 | | | 4.867 | 1068. | 2272 |
| 100± So. | | | | | |
| Church entr. | | | 3.607 | | |
| | 7.207 | | | | |
| | 6.09 | 74.3189 | | | |
| | 4.98 | | | | |
| | | | 6.260 | | |
| W. edg. S.W. | | | | | |
| TP 3 | | | 5.01 | 1069. | 3089 |
| 120± So. | | | | | |
| ROSE LN. & 71ST AVE | | | 3.76 | | |

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 7.405 | | | |
| TP 3 | 6.260 | 75.5689 | | 1069.3089 |
| | 5.115 | | | |
| | | | 6.027 | |
| WEST EDG S/W | | | | |
| TP 4 | | | 4.79 | 1070.7747 |
| 2502 No. | | | | |
| ROSE LA | | | 3.57 | |
| ON 91ST. | | | | |
| | 7.325 | | | |
| | 6.182 | 76.9569 | | |
| | 5.04 | | | |
| | | | 5.91 | |
| W. EDG S/W | | | | |
| TP 5 | | | 4.682 | 1072.2742 |
| 75 ± 50. | | | | |
| Maryland Ave. | | | 3.457 | |
| & 91ST AVE | | | | |
| | 6.067 | | | |
| | 5.642 | 77.9149 | | |
| | 5.212 | | | |
| | | | 5.882 | |
| ℄ 91ST & | | | | |
| B.C. H.H | | | 5.525 | 1072.3894 |
| MARYLAND | | | | |
| AVE | | | 5.17 | |

| STA. | + | H.I. | − | ELEV |
|---|---|---|---|---|
| | 5.78 | | | |
| ℄ 91ST | | | | |
| B.C. H.H. | 5.422 | 77.8109 | | 1072.3894 |
| Maryland | | | | |
| | 5.062 | | | |
| | | | 5.965 | |
| | | | 4 | |
| TP 5 | | | 5.553 | 1072.2722 |
| | | | 5.11 | |
| | 5.867 | | | |
| | 4.690 | 76.9619 | | |
| | 3.512 | | | |
| | | | 7.382 | |
| TP 4 | | | 6.19 | 1070.7709 |
| | | | 5.002 | |
| | 5.948 | | | |
| | 4.724 | 75.4954 | | |
| | 3.502 | | | |
| | | | 7.33 | |
| TP 3 | | | 6.19 | 1069.3067 |
| | | | 5.045 | |

| STA | + | H. I. | − | ELEV. |
|---|---|---|---|---|
| | 6.17 | | | |
| TP3 | 5.055 | 74.3609 | | 1069.3067 |
| | 3.937 | | | |
| | | | 7.385 | |
| TP2 | | | 6.14 | 1068.2222 |
| | | | 4.89 | |
| | 6.122 | | | |
| | 4.945 | 73.1657 | | |
| | 3.762 | | | |
| | | | 6.282 | |
| TP1 | | | ± | 1066.8837 |
| | 6.507 | | | |
| | 5.202 | 72.0877 | | |
| | 3.905 | | | |
| | | | 4 5.48 | (1069.0532) |
| BM SRP | | | 3.037 | 1069.0504 |
| | | | 1.595 | |

| STA. | | | | |
|---|---|---|---|---|
| 40E 10.0N | | | | |
| BM93 | 3.76 | | | |
| @ 83° Ave | | | | |
| BM SRP | 3.495 | 92.2406 | | 1088.7506 |
| GRAND CANAL | 3.21 | | | |
| | | | 7.60 | |
| P/P #1 | | | 6.18 | 1086.0588 |
| | | | 4.767 | |
| | 7.17 | | | |
| | 5.415 | 91.4738 | | |
| | 3.66 | | | |
| | | | 4.45 | |
| P/P #3 | | | 2.695 | 1088.7788 |
| | | | 0.94 | |
| | 5.225 | | | |
| | 3.46 | 92.2388 | | |
| | 1.695 | | | |
| | | | 4 5.275 | |
| P/P #5 | | | 3.485 | 1088.7563 |
| | | | 1.715 | |

| STA. | + | H.I. | - | ELEV. | |
|---|---|---|---|---|---|
| | 5.395 | | | | |
| P/p 5 | 3.927 | 92.6841 | | 1088.7563 | |
| | 2.462 | | | | |
| | | | 5.995 | | |
| ON S.W. | | | | | |
| TP 1 | | | 4.38 | 1088.3041 | |
| NEAR L.P. | | | | | |
| BASE W 83rd | | | 2.765 | | |
| 200 t SO. | | | | | |
| Maryland | 5.622 | | | | |
| | .935 | | | | |
| | ~~4.94~~ 4.245 | 93.2383 | | | |
| | 4.245 | | | | |
| S 83rd AVE & | | | 5.397 | | |
| | | | 4.515 | | |
| B.C. H.H. | | | ~~5.525~~ | 1088.7228 | |
| maryland | | | | 1088.7160 adj. | |
| AVE. | | | 3.635 | | |
| | 5.547 | | | | |
| | 4.667 | 93.3906 | | | |
| | 3.79 | | | | |
| | | | 5.777 | | |
| T.P. 1 | | | 5.085 | 1088.3046 | |
| | | | 4.397 | | |

| STA | + | H.I. | - | ELEV. | |
|---|---|---|---|---|---|
| | 5.747 | | | | |
| T.P. 1 | 4.195 | 92.4993 | | 1088.3046 | |
| | 2.642 | | | | |
| | | | 5.27 | | |
| P/p 5 | | | 3.735 | 1088.7618 | |
| | | | 2.21 | | |
| | 242 | | | | |
| | ~~5.52~~ | | | | |
| | ~~.49~~ .50 | | | | |
| | 3.490 | 92.2536 | | | |
| | 1.745 | | | | |
| | | | 45 | | |
| | | | ~~5.25~~ | | |
| P/p 3 | | | .47 | | |
| | | | ~~3.465~~ | 1088.7836 | |
| | | | 1.695 | | |
| | 4.44 | | | | |
| | 2.685 | 91.4686 | | | |
| | 0.93 | | | | |
| | | | 7.16 | | |
| P/p 1 | | | 5.405 | 1086.0648 | |
| | | | 3.645 | | |

| STA. | + | H.I | - | ELEV. |
|---|---|---|---|---|
| | 7.39 | | | |
| P/P 1 | 5.97 | 92.0361 | | 1086.0648 |
| | 4.555 | | | |
| | | | 3.547 | (1088.7506) |
| @ 83rd ave & | | | | |
| BM SRP | | | 3.272 | 1088.7628 |
| GRAND | | | | |
| CANAL | | | 3.002 | |
| | | | | |
| | +0.0122/9 = +0.0014 | | | |

| STA | + | HI | - | ELEV. | |
|---|---|---|---|---|---|
| | 8.14 | | | | |
| 75th & C.P. Z3 | 6.505 | 105.1350 | | 1098. | 6350 |
| | 4.86 | | | | |
| | | | 4.052 | | |
| PRO501 P/P | | | 2.902 | 1102. | 2342 |
| | | | 1.747 | | |
| | 4.60 | | | | |
| | 3.43 | 105.6660 | | | |
| | 2.267 | | | | |
| CBZ682 | | | 4.69 | | |
| P/P | | | 3.520 | 1102. | 1480 |
| | | | 2.35 | | |
| | 5.855 | | | | |
| | 4.68 | 106.8285 | | | |
| | 3.515 | | | | |
| | | | 6.057 | | |
| P/P 2 | | | 4.88 | 1101. | 9487 |
| | | | 3.707 | | |

| STA | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| across [illegible] | 6.515 | | | | |
| P/P | 5.35 | 107.3012 | | 1101. | 9487 |
| 5 pole south of Bethany on 75th E. SIDE | 4.195 | | | | |
| P/P 3rd pole SOUTH B.H. E. 75th | | | 5.665 | | |
| | | | 4.51 | 1102. | 7912 |
| | | | 3.355 | | |
| | 5.487 | | | | |
| | 4.225 | 107.0167 | | | |
| | 2.965 | | | | |
| TP 1 ~~CP# 1~~ | | | 6.10 ~~6.545~~ | | |
| | | | 5.092 ~~4.365~~ | 1101. | 9232 |
| | | | 4.09 ~~2.16~~ | | |
| | 6.76 | | | | |
| | 5.987 | 107.9129 | | | |
| | 5.225 | | | | |

| STA | + | H.I. | − | ELEV | |
|---|---|---|---|---|---|
| TP 1 | | 107.9129 | | | |
| | | | 5.8~~95~~ 8 | | |
| CP# 1 | | | 5.23 | 1102. | 6824 |
| | | | 4.577 | | |
| | 5.725 | | | | |
| | 5.07 | 107.7537 | | | |
| | 4.42 | | | | |
| | | | 6.60 | | |
| TP 1 | | | 5.8~~35~~ 32 | 1101. | 9214 |
| | | | 5.065 | | |
| | 6.195 | | | | |
| | 5.~~075~~ .172 | 107.0964 | | | |
| | 4.155 | | | | |
| | | | 5.55 | | |
| 3rd pole P/P south of Bethany | | | 4.305 | 1102. | 7927 |
| | | | 3.055 | | |

| STA. | + | H.I. | − | ELEV. | STA | + | H.I. | − | ELEV. |
|---|---|---|---|---|---|---|---|---|---|
| 3rd, Mar | 5.46 | | | | PRO501 | 4.145 | | | |
| P/P | 4.32 | 107.1152 | | 1102.7927 | P/P | 2.902 | 105.1359 | | 1102.2319 |
| ... OF BETHANY | 3.... | | | | | 1.667 | | | |
| | | | 6.35 | | | | | 8.05 | (1098.6350) |
| P/P # 2 | | | 5.16 | 1101.9527 | CP #23 | | | 6.495 | 1098.6409 |
| | | | 3.93 | | | | | 4.82 | |
| | 6.115 | | | | | | | | |
| | 4.945 | 106.8977 | | | | | | | |
| | 3.715 | | | | | | | | |
| | | | 5.225 | | | | | | |
| P/P | | | 4.75 | 1102.1452 | | | | | |
| | | | 3.475 | | | | | | |
| | 4 4.522 | | | | | | | | |
| | 3.475 | 105.6219 | | | | | | | |
| | 2.315 | | | | | | | | |
| PRO501 | | | 4.56 | | | | | | |
| P/P | | | 3.31 | 1102.2319 | | | | | |
| | | | 2.72 | | | | | | |

| STA | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| | 4.43 | | | | |
| 050090 | | | | | |
| BM(SKB) | 3.148 | 100.2102 | | 1097. | 0622 |
| 75TH & | | | | | |
| [illegible] | 1.866 | | | | |
| | | | 8.632 | | |
| PRL 1609 | | | | | |
| P/P 3 | | | 6.992 | 1093. | 2159 |
| | | | 5.361 | | |
| | 4.335 | | | | |
| | 2.979 | 96.1964 | | | |
| | 1.629 | | | | |
| | | | 4.918 | | |
| PR 1610 | | | | | |
| P/P 5 | | | 3.542 | 1092. | 6527 |
| 3255 | | | | | |
| | | | 2.172 | | |
| | 2.748 | | | | |
| | 1.539 | 94.1924 | | | |
| | 0.333 | | | | |
| | | | 5.023 | | |
| PRL 1531 | | | | | |
| P/P 7 | | | 3.961 | 1090. | 2319 |
| | | | 2.897 | | |

| STA | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| | 3.609 | | | | |
| P/P 7 | 2.248 | 92.480 | | 1090. | 2319 |
| | 0.888 | | | | |
| | | | 5.915 | | |
| P/P 9 | | | 4.711 | 1087. | 7689 |
| | | | 3.508 | | |
| | 4.498 | | | | |
| | 3.058 | 90.8244 | | | |
| | 1.608 | | | | |
| | | | 5.519 | | |
| P/P 11 | | | 4.492 | 1086. | 3319 |
| | | | 3.467 | | |
| | 4.928 | | | | |
| | 4.289 | 90.6214 | | | |
| | 3.652 | | | | |
| | | | 7.062 | | |
| #114 | | | | | |
| B.C. H.H. | | | 6.143 | 1084. | 4792 |
| | | | 5.221 | | |

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 6.938 | | | |
| B.C. H.H. | 6.017 | 90.4952 | | 1084.4792 |
| | 5.094 | | | |
| | | | 4.802 | |
| P/P 11 | | | 4.163 | 1086.3322 |
| | | | 3.523 | |
| | 5.557 | | | |
| | 4.528 | 90.8512 | | |
| | 3.503 | | | |
| | | | 4.529 | |
| P/P 9 | | | 3.082 | 1087.7774 |
| | | | 1.642 | |
| | 5.155 | | | |
| | 4.683 | 92.4604 | | |
| | 3.411 | | | |
| | | | 3.511 | |
| P/P 7 | | | 2.219 | 1090.2429 |
| | | | 0.721 | |

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 5.148 | | | |
| P/P 7 | 4.09 | 94.3219 | | 1090.2429 |
| | 3.008 | | | |
| | | | 2.325 | |
| P/P 5 | | | 1.652 | 1092.6652 |
| | | | 0.462 | |
| | 5.107 | | | |
| | 3.732 | 96.3992 | | |
| | 2.356 | | | |
| | | | 4.53 | |
| P/P 3 | | | 3.175 | 1093.2242 |
| | | | 1.82 | |
| | 8.390 | | | |
| | 7.06 | 100.2867 | | |
| | 5.74 | | | |
| | | | 4.775 | (1097.0622) |
| 050090 BM (SRP) | | | 3.222 | 1097.0657 |
| | | | 1.665 | |

| STA | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 4.397 | | | |
| P/P 77"S" | 3.642 | 102.4157 | | 1098.7725 |
| | 2.892 | | | |
| T/C TP 1 | | | 11.85 | |
| | | | 11.26 | 1091.1577 |
| | | | 10.662 | |
| | 5.837 | | | |
| | 4.635 | 95.7950 | | |
| | 3.442 | | | |
| | | | 6.687 | |
| T/C TP 2 7146 SELLS DR. | | | 5.595 | 1090.1995 |
| | | | 4.505 | |
| | 5.15 | | | |
| | 5.007 | 95.2055 | | |
| | 3.36 | | | |
| | | | 6.92 | |
| T/C TP 3 7232 Sells Dr. | | | 5.857 | 1089.3482 |
| | | | 4.795 | |

| STA. | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 6.207 | | | |
| T/C TP 3 | 5.065 | 94.4130 | | 1089.3482 |
| | 3.922 | | | |
| | | | 6.41 | |
| T/C TP 4 7306 SELLS DR. | | | 5.325 | 1089.0892 |
| | | | 4.235 | |
| | 6.855 | | | |
| | 5.555 | 94.6460 | | |
| | 4.262 | | | |
| | | | 7.245 | |
| T/C TP 5 7338 SELLS DR. | | | 6.162 | 1088.4825 |
| | | | 5.085 | |
| | 6.762 | | | |
| | 5.607 | 94.0895 | | |
| | 4.452 | | | |
| | | | 6.885 | |
| TP 6 7420 SELLS DR | | | 5.85 | 1088.2395 |
| | | | 4.815 | |

| STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| | 5.642 | | | | |
| TP 6 | 5.105 | 93.3467 | | 1088. | 2395 |
| | 4.577 | | | | |
| | | | | 7.09 | |
| BC H.H. 75TH AVE SEALS DR. | | | | 6.264 | 1087.0817 |
| | | | | 5 442 | |
| | 7.126 | | | | |
| | 6.304 | 93.3832 | | | |
| | 5.472 | | | | |
| | | | 5.68 | | |
| TP 6 | | | 5.145 | 1088. | 2382 |
| | | | 4.61 | | |
| | 6.895 | | | | |
| | 5.80 | 94.0400 | | | |
| | 4.712 | | | | |
| | | | 6.665 | | |
| TP 5 | | | 5.5~~56~~6 | 1088. | 4787 |
| | | | 4.46 | | |

| STA | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|
| | 7.19 | | | | |
| TP 5 | 6.13 | 94.6100 | | 1088. | 4787 |
| | 5.075 | | | | |
| | | | 6.845 | | |
| TP 4 | | | 5.525 | 1089. | 0832 |
| | | | 4.212 | | |
| | 6.322 | | | | |
| | 5.237 | 94.3185 | | | |
| | 4.145 | | | | |
| | | | ~~5~~6.115 | | |
| TP 3 | | | 4.97 | 1089. | 3485 |
| | | | 3.825 | | |
| | 6.882 | | | | |
| | 5 84 | 95.1895 | | | |
| | 4.802 | | | | |
| | | | 6.152 | | |
| TP 2 | | | 4.985 | 1090. | 2035 |
| | | | 3.8[illegible] | | |

| STA | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 6.92 | | | |
| TP2 | 5.886 | 96.0905 | | 1090.2035 |
| | 4.852 | | | |
| | | | 6.20 | |
| TP 1 | | | 4.945 | 1091.1455 |
| | | | 3.69 | |
| | 11.75 | | | |
| | 11.16 | 102.3047 | | |
| | 10.567 | | | |
| | | | 4.317 | (1098.7725) |
| P/P 77'S | | | 3.542 | 1098.7632 |
| | | | .765 | |
| | | | ~~2.72~~ | |

| STA | + | H.I | − | ELEV. |
|---|---|---|---|---|
| 63RD AVE & GRAND CANAL | 3.428 | | | |
| 6.5E 7.8N | | | | |
| BM SRP | 2.269 | 100.8282 | | 1098.5580 |
| | 1.115 | | | |
| | | | 5.904 | |
| BCF 63RD AVE & Clarendon | | | 5.713 | 1095.1152 |
| | | | 5.522 | |
| | 5.986 | | | |
| | 5.793 | 100.9087 | | |
| | 5.602 | | | |
| | | | 3.506 | |
| BM SRP | | | 2.317 | 1098.5582 |
| | | | 1.198 | |
| CLARENDON & 63RD AVE | 5.542 | | | |
| B.C.F. | 4.748 | 99.8627 | | 1095.1152 |
| | | ~~103.3057~~ | | |
| | 3.952 | | | |
| @ BRITTON & 63 AVE | | | 6.183 | |
| B.C.F. | | | 5.271 | ~~1098.0350~~ 10 |
| | | | 4.358 | 1094.5918 |

| STA | + | H.I. | − | ELEV | | STA. | + | H.I. | − | ELEV. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63rd & BRITON | 5.091 | | | | | OSBORN & 63 DR. | 5.508 | | | | |
| B.C.F. | 4.076 | 98.6680 ~~102.1110~~ | | 1094.5918 ~~1098.0348~~ | | B.C.F | 4.829 | 96.0325 ~~99.4755~~ | | 1091.2030 ~~1094.6460~~ | |
| | 3.062 | | | | | | 4.152 | | | | |
| | | | 6.972 | | | 6339 | | | 6.992 | | |
| TP 1 | | | 5.967 | 1092.7008 ~~1096.1438~~ | | OSBORN T/C TP2 | | | 6.082 | 1089.9490 ~~1093.3920~~ | |
| | | | 4.963 | | | | | | 5.178 | | |
| | 5.383 | | | | | | 5.669 | | | | |
| | 4,505 | 97.2055 ~~100.6485~~ | | | | | 4.928 | 94.8780 ~~98.3210~~ | | | |
| | 3.626 | | | | | | 4.189 | | | | |
| WEST FLANGE BOLT F.H. N.W. CO. OSBORN & 63rd | | | 4.538 | | | 6423 OSBORN T/C TP 3 | | | 6.908 | | |
| | | | 3.631 | 1093.5735 ~~1097.0165~~ | | | | | 5.857 | 1089.0220 ~~1092.4650~~ | |
| | | | 2,728 | | | | | | 4.802 | | |
| | 3.452 | | | | | | 5.382 | | | | |
| | 2.867 | 96.4395 ~~99.8825~~ | | | | | 4.866 | 93.8882 ~~97.3312~~ | | | |
| | 2.278 | | | | | | 4.351 | | | | |
| OSBORN & 63 DR. | | | 5.801 | | | OSBORN & 64 DR. | | | 5.668 | | |
| B.C.F. | | | 5.238 | 1091.2030 ~~1094.6460~~ | | B.C.F. | | | 5.212 | 1088.6757 ~~1092.1187~~ | |
| | | | 4.669 | | | | | | 4.758 | | |

| STA. | + | H.I. | − | ELEV. | STA | + | H.I. | − | ELEV. |
|---|---|---|---|---|---|---|---|---|---|
| 64 DR & OSBORN | 5.255 | | | | | 3.289 | | | |
| E.C.E. | 4.804 | 93.4797 ~~98.9227~~ | | 1088.6757 ~~1092.1187~~ | F.H. | 2.614 | 90.7307 ~~94.1737~~ | | 1088.1170 ~~1091.5600~~ |
| | 4.353 | | | | | 1.938 | | | |
| | | | | | 6617 OSBORN | | | 48 6.151 | |
| WEST BOLT FH | | | 5.658 | 1088.7677 ~~1092.2107~~ | TC | | | | |
| 65TH AVE & OSBORN | | | 4.712 | | TPS | | | 5.462 | 1085.2692 ~~1089.7122~~ |
| | | | 3.766 | | | | | 7 4.744 | |
| | 3.803 | | | | | 5.543 | | | |
| | 3.082 | 91.8497 ~~95.2927~~ | | | | 4.934 | 90.2036 ~~93.6466~~ | | |
| | 2.361 | | | | | 4.328 | | | |
| 6517 OSBORN TC 4 | | | 6.343 | | 67 TH AVE & OSBORN | | | 6 4.718 | |
| | | | 5.466 | 1086.3837 ~~1089.8267~~ | BC. H.H | | | 5 4.943 | 1084.2606 ~~1087.7036~~ |
| | | | 4.589 | | | | | 5.168 | |
| | 5.65 | | | | | 6.784 | | | |
| | 4.91 | 91.2940 ~~94.7370~~ | | | | 6.012 | ~~93.7159~~ 90.2729 | | |
| | 4.171 | | | | | 5.241 | | | |
| | | | | | | | | 18 5.624 | |
| 6541 OSBORN | | | 4.122 | | TPS | | | 008 5.012 | 1085.2641 ~~1088.7071~~ |
| F.H. N.W. BOLT | | | 3.177 | 1089.1170 ~~1091.5600~~ | | | | 401 4.398 | |
| | | | 2.232 | | | | | | |

| STA | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 6.248 | | | |
| TP 5 | 5.478 | 90.7416<br>~~94.1915~~ | | 1085.2641<br>~~1093.7071~~ |
| | 4.706 | | | |
| | | | 3.223 | |
| F.H. | | | 2.632 | 1088.1094<br>~~1091.5524~~ |
| | | | 2.042 | |
| | 3.882 | | | |
| | 3.061 | 91.1706<br>~~94.6136~~ | | |
| | 2.241 | | | |
| | | | 5.695 | |
| TP 4 | | | 4.797 | 1086.3744<br>~~1089.8174~~ |
| | | | 3.906 | |
| | 6.192 | | | |
| | 5.471 | 91.8449<br>~~95.2879~~ | | |
| | 4.748 | | | |
| | | | 3.889 | |
| F.H. | | | 3.088 | 1088.7569<br>~~1092.1999~~ |
| | | | 2.287 | |

| STA | + | H.I. | − | ELEV. |
|---|---|---|---|---|
| | 5.404 | | | |
| F.H. | 4.788 | 23.5461<br>~~28.9891~~ | | 1083.7569<br>~~1092.1999~~ |
| | 4.177 | | | |
| 64TH & OSBORN | | | 5.589 | |
| B.C.F | | | 4.874 | 1089.6699<br>~~1092.1129~~ |
| | | | 4.168 | |
| | 5.742 | | | |
| | 5.320 | 93.9894<br>~~97.4324~~ | | |
| | 4.896 | | | |
| | | | 5.419 | |
| TP 3 | 4.977 | | 4.977 | 1089.0121<br>~~1092.4551~~ |
| | | | 4.536 | |
| | 6.482 | | | |
| | 5.625 | 94.6381<br>~~98.0811~~ | | |
| | 4.772 | | | |
| | | | 5.542 | |
| TP 2 | | | 4.689 | 1089.9478<br>~~1093.3908~~ |
| | | | 3.847 | |

| STA. | + | H. I. | − | ELEV. |
|---|---|---|---|---|
| | 6 462 | | | |
| TPZ | 5.621 | 95.5681<br>~~99.0114~~ | | 1089.9476<br>~~1093.3906~~ |
| | 4.778 | | | |
| 63 RD AVE & OSBORN | | | 5 055 | |
| BCF | | | 4.363 | 1091.2059<br>~~1094.6489~~ |
| | | | 3,668 | |
| | 5.585 | | | |
| | 4.955 | 96.1604<br>~~99.6034~~ | | |
| | 4,323 | | | |
| 63 AVE & OSBORN | | | 3.166 | |
| FH | | | 2.582 | 1093.5784<br>~~1097.0214~~ |
| | | | 1.998 | |
| | 4 082 | | | |
| | 3.532 | 97.1116<br>~~100.5546~~ | | |
| | 2.987 | | | |
| 63 RD AVE & CRITTENDEN | | | 5.091 | |
| B.C.F. | | | 4.499 | 1092.6121<br>~~1096.0551~~ |
| | | | 3.909 | |

| STA | + | H. I. | − | ELEV. |
|---|---|---|---|---|
| 63 AVE & CRITTENDEN | 5.961 | | | |
| B.C.F. | 5.265 | 97.8774<br>~~101.3204~~ | | 1092.6121<br>~~1096.0551~~ |
| | 4.570 | | | |
| 63 AVE & MITCHELL | | | 4.993 | |
| B.C.F. | | | 4<br>3.303 | 1093.7360<br>~~1097.0788~~ |
| | | | 3.616 | |
| | 5.752 | | | |
| | 5.176 | 98.7491<br>~~102.1921~~ | | |
| | 4 598 | | | |
| 63 AVE & BRITTON | | | 4.827 | |
| B.C.F. | | | 4.142 | 1094.6091<br>~~1098.0521~~ |
| | | | 3.449 | |
| | 6.070 | | | |
| | 5.334 | 99.9434<br>~~103.3864~~ | | |
| | 4.599 | | | |
| 63 AVE & CLARENDON | | | 5782 | (1095.1152) |
| B.C.F. | | | 4.805 | 1095.1374<br>~~1098.5804~~ |
| | | | 3 832. | |

01-07-2000 BETHANY HOME RD

V.M B.M LOOP

W.R

| STA | B.S.T | HI | F.S. | EL | ADJ EL | DESCRIPTION |
|---|---|---|---|---|---|---|
| BM | | | | | | 3" ALUMINUM CAP LOCATED ON SW COR OF THE RADIAL GATE #2-21 FOR THE GRAND CANAL SITUATED ON THE EAST SIDE OF 83 RD AVE STAMPED SALT RIVER PROJECT B.M 93" AND "4.0E 10.0N" |
| 4.0E10.0N | | | | 1088.7506 | | |
| | 0.38 | 1089.13 | | | | |
| | | | 5.37 | 1083.76 | * | 2" B.C.S.M STAMPED MARICOPA COUNTY HWY DEPT. ± ℄ CANAL ± ℄ 83 AVE. |
| | 5.26 | 1089.02 | | | | |
| BM | | | 0.28 | 1088.74 | | B.M "4.0E 10.0N |

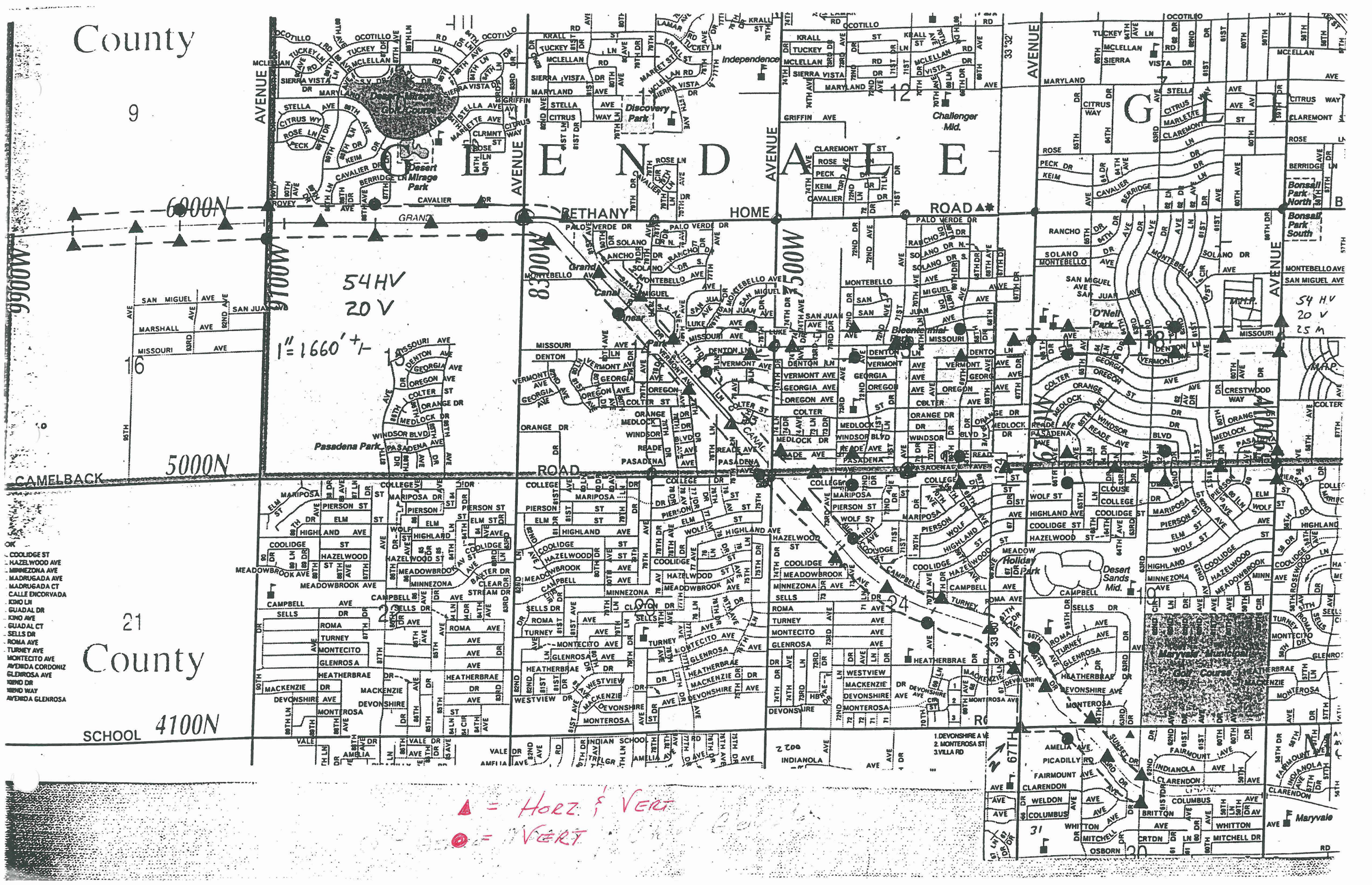
+ 1083.76 [illegible]

01-07-2000 BETHANY HOME RD

V.M B.M. LOOP

W. R

| STA | B.S. + | HI | F.S. - | EL | ADJ EL | DESCRIPTION |
|---|---|---|---|---|---|---|
| B.M | | | | | | 3" BRASS CAP S. END E. SIDE AHARD RAIL |
| | | | | | | OF 99 AVE BRIDGE OVER THE GRAND CANAL |
| B.M | | | | 1062.18 | | M.C.H.D. |
| | 2.12 | 1064.30 | | | | |
| | | | 3.92 | 1060.38 | * | B.C.S.M M.C.H.D. ± ℄ 99TH AVE 1/ ± ℄ |
| | 3.85 | 1064.23 | | | | CANAL |
| BM | | | 2.04 | 1062.19 | | B.M 3" BRASS CAP |
| | | | | | * 1062.50 | ADJT |


County
9
GLENDALE
AVENUE
6000N
5000N
4100N
9900W
9100W
8300W
7500W
6700W
5900W
CAMELBACK
ROAD
BETHANY
HOME
ROAD
SCHOOL
Desert Mirage Golf Course
Desert Mirage Park
Discovery Park
Independence
Challenger Mid.
Bonsall Park North
Bonsall Park South
O'Neil Park
Bicentennial Park
Pasadena Park
Holiday Park
Desert Sands Mid.
Maryvale Municipal Golf Course
Maryvale
54HV
20V
1"=1660'+/-
54 HV
20 V
25 M
1.DEVONSHIRE AVE
2. MONTEROSA ST
3.VILLA RD
COOLIDGE ST
HAZELWOOD AVE
MINNEZONA AVE
MADRUGADA AVE
MADRUGADA CT
CALLE ENCORVADA
KINO LN
GUADAL DR
KINO AVE
GUADAL CT
SELLS DR
ROMA AVE
TURNEY AVE
MONTECITO AVE
AVENIDA CORDONIZ
GLENROSA AVE
KIEND DR
KIEND WAY
AVENIDA GLENROSA
21
County
▲ = HORZ & VERT
● = VERT

75TH Ave.

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2,913100.1768,610051.8591,1100.606300,cp 25
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76,913055.7328,607444.7940,1095.675400,EBX FLUSH
77,913076.5978,607419.4206,1094.641800,NG
78,913128.1757,607420.4420,1093.744600,.CT
79,913117.3728,607431.1970,1094.130500,.CT
80,913107.1522,607437.8360,1094.140900,.CT
81,913091.0227,607436.2648,1094.473100,.CT
82,913091.1046,607437.1990,1094.469100,.CT
83,913085.0671,607437.1290,1094.588900,.CT
84,913084.8093,607441.6035,1094.594600,.CT
85,913091.1009,607441.61640100,1094.409500,.CT
86,913091.1176,607442.62730100,1094.275900,.CT
87,913097.6560,607443.6904,1094.018800,.CT
88,913105.4131,607442.7307,1094.101300,.CT
89,913107.1523,607441.6082,1093.878200,.CT
90,913116.68150200,607441.5804,1094.144100,.CT
91,913116.9276,607439.0297,1094.042900,.CT
92,913128.0638,607433.71680100,1094.081500,.CT
93,913135.5890,607427.9920,1094.339200,.CT!
94,913117.3098,607430.6773,1094.131800,.C
95,913113.8773,607430.3974,1094.302100,.C
96,913106.1671,607433.9318,1094.311000,.C
97,913098.89490200,607433.3631,1094.386700,.C
98,913093.7519,607434.6664,1094.479200,.C!
99,913103.1999,607430.9233,1094.635800,.HW
100,913103.7592,607428.6530,1094.594400,.HW
101,913101.3798,607425.6560,1094.556000,.HW
102,913097.7920,607425.8911,1094.542700,.HW!
103,913101.4902,607427.3769,1091.946600,INV 12"PVC
104,913086.2079,607438.9602,1090.694800,INV 24"RCP
105,913094.8977,607441.9085,1091.090900,INV 24"RCP
106,913080.4850,607453.1860,1095.662700,WV
107,913079.9894,607463.9576,1096.012000,.EP
108,913104.0498,607463.7245,1096.132900,.EP
109,913129.0024,607463.60550100,1096.145800,.EP
110,913154.4061,607463.5612,1096.271600,.EP
111,913195.3125,607464.0320,1096.069000,.EP
112,913209.8472,607457.5843,1095.967900,.EP
113,913255.0143,607457.2947,1095.677100,.EP!
114,913246.2825,607402.9554,1088.052300,INV 30"RCP

115,913253.7481,607412.8556,1096.135400,.CT DIRT
116,913220.6740,607439.0741,1095.716600,.CT
117,913213.5967,607443.8372,1095.39,.CT
118,913212.9287,607444.2652,1094.782400,.CT
119,913196.23180200,607456.4050,1094.358200,.CT
120,913196.0107,607459.8527,1095.594600,.CT
121,913188.0011,607458.9016,1094.998500,.CT!
122,913196.0316,607449.1527,1089.722900,INV 24"RCP
123,913187.8398,607455.58090100,1093.018200,.TP 4"GAS
124,913185.3879,607456.3691,1094.890300,.TP 4"GAS
125,913187.0404,607457.1344,1095.206600,.TP1 8"WATER
126,913186.1800,607457.93130100,1096.589900,.HW
127,913145.8989,607458.5484,1096.665100,.HW!
128,913145.4617,607457.6546,1095.493500,.TP1!
129,913147.1866,607456.6459,1094.999600,.TP
130,913146.4460,607455.8094,1093.052000,.TP!
131,913146.1354,607456.80630100,1095.719100,.HW
132,913146.2212,607447.5740,1095.722900,.HW!
133,913154.8137,607457.6915,1088.677400,INV 2 BBL BOX
134,913145.8440,607444.1276,1094.816200,.TOP DIRT
135,913179.0624,607413.9652,1094.070400,.TOP!
136,913193.98920200,607461.0603,1095.745300,SSP DELINEATOR
137,913253.4896,607462.5893,1095.774800,SSP DELINEATOR
138,913255.0515,607455.7519,1095.587500,.G
139,913254.9523,607455.1093,1096.048300,.TCB
140,913254.9678,607448.2226,1096.059400,.SW
141,913255.4584,607442.2824,1096.103000,.SW1
142,913265.7792,607443.2322,1095.993500,.SW1-
143,913264.4843,607448.91410100,1095.963600,.SW-
144,913265.1652,607452.2588,1095.956400,FH
145,913274.6696,607446.6461,1095.756600,.SW1
146,913279.1145,607448.53910100,1095.693700,.SW1-
147,913282.1893,607449.1084,1095.745200,.SW1
148,913276.2986,607455.1222,1095.774100,.SW!
149,913283.7215,607442.8071,1096.971600,.ICB
150,913277.80170200,607442.7051,1097.037500,.ICB
151,913277.8328,607433.92020100,1097.115900,.ICB
152,913283.7036,607433.9953,1097.171100,.ICB+
153,913289.2171,607447.8116,1095.670700,LP
154,913294.2357,607448.6807,1095.627400,.SW1
155,913298.5503,607433.6306,1096.222400,.SW1!
156,913308.4486,607435.2288,1096.118800,.SW
157,913304.6538,607449.2175,1095.487200,.SW
158,913304.0881,607455.8507,1094.928900,.G
159,913304.1134,607455.2315,1095.415900,.TCB
160,913339.9292,607449.2008,1095.244200,.SW
161,913347.55540200,607448.5594,1095.118900,.SW-
162,913353.3603,607446.1885,1095.044900,.SW
163,913402.8864,607432.7469,1095.075700,.SW-
164,913437.1048,607438.6501,1094.898500,.SW
165,913446.0841,607441.5494,1094.799500,.SW-
166,913456.0784,607442.26600100,1094.701500,.SW!
167,913456.1062,607448.3656,1094.696500,.SW
168,913443.6252,607446.9967,1094.714100,.SW-
169,913434.9797,607444.1412,1094.765700,.SW
170,913403.6023,607438.6492,1094.956400,.SW-
171,913366.3192,607446.3214,1094.990300,.SW

172,913353.2751,607452.57830100,1094.933400,.SW
173,913351.5833,607453.5812,1094.925800,.SW-
174,913351.3042,607455.3068,1094.922300,.SW!.TCB
175,913351.3368,607455.8970,1094.459300,.G
176,913404.7171,607455.9918,1094.173300,.G!
177,913404.6522,607455.3003,1094.647000,.TCB!
178,913447.3511,607452.4950,1094.498400,TROL 4"
179,913423.2423,607450.3003,1094.280700,TROL 4"
180,913399.4497,607445.7742,1094.417300,TRPV 3"
181,913371.58830200,607451.1470,1094.581000,TROL 4"
182,913384.8574,607461.5604,1094.370900,SSP DELINEATOR
183,913423.9166,607460.8809,1094.205300,PK
184,913254.30890200,607490.6095,1096.315500,P
185,913204.1139,607492.7180,1096.81,P
186,913219.8766,607520.9936,1096.212700,WV
187,913204.6317,607532.1920,1094.081100,.SW
188,913204.2360,607527.2348,1096.533600,.TCB
189,913204.1708,607526.61380100,1096.106300,.G
190,913199.2407,607534.3537,1096.660700,SDMH
191,913200.2422,607527.3575,1096.174600,.TCB
192,913200.22570200,607526.7171,1096.139200,.G
193,913175.2222,607527.4179,1096.201600,.G
194,913175.3455,607528.0677,1096.386100,.TCB
195,913171.26730200,607528.0284,1096.770500,.TCB
196,913171.0645,607527.3393,1096.268000,.G
197,913171.2393,607533.0561,1096.778800,.SW.EP
198,913167.9362,607541.5967,1096.682600,.EP-
199,913166.6679,607544.3914,1096.739200,.EP!
200,913185.3184,607507.3796,1096.881700,SSMH
201,913193.8114,607477.2961,1096.592000,WV
202,913192.2665,607475.3056,1096.589800,WV
203,913154.4880,607492.4179,1097.112600,P
204,913129.8417,607492.8754,1097.083100,P
205,913105.7510,607491.9787,1097.007300,P
206,913079.79190200,607492.7548,1096.739100,P
207,913054.9361,607492.8626,1096.341900,P
208,913006.29540200,607493.9208,1095.609500,P
209,913030.48790200,607493.1920,1095.915900,P
210,913029.8117,607493.50730100,1095.912000,P
211,913026.2786,607507.6894,1095.956100,SSMH
212,913012.0012,607508.0048,1095.703000,SSMH
213,913011.2021,607477.48030100,1095.574000,SSMH
214,913003.8469,607443.6440,1095.538500,P
215,913003.2349,607415.5751,1095.407600,P
216,913035.4759,607451.7272,1095.155700,WV
217,913040.8743,607450.6662,1095.157000,WV
218,912941.0050,607475.3276,1094.384700,SSMH
219,912958.8476,607486.7942,1094.766100,SDMH
220,912951.6439,607507.0225,1094.798600,SSMH
221,912938.5681,607508.2261,1094.608400,SDMH
222,912991.6803,607493.0573,1095.398200,P
223,912963.6512,607492.8496,1094.941100,P
224,912937.0980,607492.7240,1094.619700,P
225,912914.56020200,607492.5892,1094.352100,P
226,912966.4811,607516.2993,1094.851300,GV
227,912979.4690,607514.0144,1095.255100,GV
228,912981.5620,607512.1210,1095.307900,GV

229,912985.7669,607522.3807,1095.406000,WV
230,912986.7297,607552.5572,1095.607700,WV
231,912933.2925,607526.67040100,1094.139100,WV
232,912897.1756,607525.2426,1093.595200,WV
233,912886.65820200,607537.2057,1094.016800,.SW1
234,912886.7004,607532.2733,1093.936100,.TCB1
235,912886.8577,607531.6306,1093.403400,.G1
236,912894.31150200,607531.6527,1093.513800,.G1
237,912894.4117,607532.2367,1093.572300,.TCB1
238,912926.8088,607532.3660,1093.938900,.TCB1
239,912926.8441,607531.78800100,1093.877700,.G1
240,912931.9812,607531.7479,1093.973600,.G1
241,912931.9586,607532.3784,1094.406400,.TCB1
242,912931.8829,607537.3593,1094.613700,.SW1.EP
243,912941.7224,607537.3191,1094.635300,.SW1
244,912942.0396,607532.3069,1094.600700,.TCB1
245,912942.0464,607531.8205,1094.113000,.G1
246,912959.2774,607539.0029,1094.784200,.G1-
247,912958.9432,607539.2892,1094.856400,.TCB1-
248,912964.2523,607544.56260100,1095.050500,.TCB1-
249,912964.4086,607543.9190,1094.986600,.G1-
250,912970.0350,607552.3571,1095.416900,.G1-
251,912969.53690200,607552.59920100,1095.837000,.TCB1-
252,912971.9614,607561.2617,1096.082600,.TCB1
253,912972.5746,607561.2424,1095.583700,.G1
254,912945.4140,607537.8209,1094.746400,.SW1-
255,912948.7778,607539.1097,1094.949300,.SW1
256,912966.17800200,607554.6441,1095.880800,.SW1
257,912967.4312,607558.1130,1095.993900,.SW1-
258,912967.9616,607561.1462,1096.123300,.SW1
259,912967.0582,607563.0734,1096.173600,.SW1
260,912967.2602,607567.7336,1096.142400,.SW1
261,912931.6394,607539.8229,1094.721400,.EP
262,912937.7435,607540.0048,1094.720900,.EP
263,912939.0330,607560.0596,1094.821300,.EP
264,912953.2613,607563.4294,1095.292600,.EP-
265,912964.2063,607567.9330,1096.173700,.SW1.EP!
266,912964.7240,607560.48790100,1096.045300,TS
267,912964.0624,607554.48400100,1095.745300,FH
268,912949.0748,607552.7330,1095.386400,.EBX
269,912953.1795,607548.2193,1095.35,.EBX
270,912956.4496,607551.1537,1095.697700,.EBX
271,912952.3368,607555.63100100,1095.434500,.EBX+
272,912947.7124,607539.7276,1095.011600,TS
273,912943.7408,607539.7962,1094.640300,TPD
274,912934.7578,607553.7313,1094.921000,SSP 7-ELEVEN
275,912950.0838,607579.9880,1095.061800,P
276,912933.6176,607578.7405,1094.772600,P
277,912913.86530200,607604.56020100,1094.778000,.EP
278,912927.53580200,607597.69110100,1094.880500,.EP
279,912944.4364,607598.7262,1095.316800,.EP
280,912965.7304,607601.34570100,1096.439700,.EP!
281,912965.9751,607607.7603,1096.668700,.SW1
282,912967.6234,607607.7230,1096.68,.SW1-
283,912968.8118,607610.11030100,1096.670700,.SW1
284,912972.8134,607567.28930100,1095.648500,.G1
285,912972.2384,607567.3012,1096.087600,.TCB1

286,912972.4247,607572.3736,1095.672700,.TCB1
287,912972.9239,607572.3800,1095.597400,.G1
288,912974.1171,607596.01470100,1095.576600,.G1
289,912973.5421,607596.0826,1095.728300,.TCB1
290,912973.9631,607610.1368,1096.722300,.TCB1
291,912974.66820200,607610.1260,1095.651300,.G1
292,912975.7352,607633.8648,1095.753700,.G1
293,912975.0032,607633.9691,1001.653700,.TCB1
294,912969.35200200,607633.8257,1096.845100,.SW1
295,912970.0492,607668.0361,1096.869100,.SW1
296,912969.96330200,607669.6258,1096.799500,.SW1-
297,912968.3945,607670.3940,1096.777800,.SW1
298,912976.8552,607667.6671,1095.821500,.G1
299,912976.13510200,607667.6690,1096.753700,.TCB1
300,912976.68040200,607680.24990100,1095.948300,.TCB1
301,912977.2727,607680.18980100,1095.823800,.G1
302,912977.8881,607704.5451,1095.846900,.G1
303,912977.2852,607704.4628,1095.966400,.TCB1
304,912969.4872,607709.4049,1096.474600,.SW1
305,912977.4370,607709.3687,1096.302800,.SW1!.TCB1
306,912978.0202,607709.4084,1095.852800,.G1
307,912963.4224,607688.3703,1096.490900,.CV
308,912960.0161,607692.0578,1096.481600,.CV
309,912956.3916,607688.5974,1096.489500,.CV
310,912959.7023,607684.9608,1096.463600,.CV+
311,912946.5543,607691.9966,1097.624700,.CV
312,912944.4069,607689.6294,1097.605500,.CV
313,912939.3174,607694.2690,1097.573500,.CV
314,912941.4970,607696.6481,1097.650200,.CV+
315,912938.8895,607696.8312,1096.910500,NT UNKNOWN PED
316,912936.1725,607700.0879,1097.200900,NT UNKNOWN PED
317,912931.5449,607699.8310,1091.509800,.CT
318,912956.6249,607677.3140,1096.546000,.CT
319,912955.8240,607676.1679,1097.035700,.CT
320,912954.2302,607674.5910,1097.032900,.CT
321,912965.1840,607664.3723,1097.082200,.CT
322,912966.7017,607665.9345,1097.095300,.CT!
323,912961.6934,607674.1173,1096.795700,.F 4'C/L
324,912968.1541,607667.2050,1096.678500,.F!
325,912968.7199,607668.0958,1097.600900,.TP 8"WATER
326,912969.6758,607666.0026,1099.283300,.HW
327,912968.3636,607612.2090,1099.125200,.HW!
328,912967.3792,607610.18500100,1097.512900,.TP!
329,912967.0490,607616.56130100,1095.619500,.CT
330,912955.8025,607617.1059,1095.656700,.CT
331,912937.0327,607632.4932,1095.872400,.CT!
332,912971.1107,607673.0244,1096.676500,GV
333,912951.2720,607734.4616,1096.496600,NG
334,912978.02360200,607734.8178,1096.310600,.G1
335,912978.5892,607734.5855,1095.794100,.TCB1
336,912976.0714,607749.8537,1096.309600,SSP SPEED 40
337,912979.6613,607782.7687,1095.716200,.G1
338,912978.9764,607782.8372,1096.169200,.TCB1
339,912980.2446,607832.4700,1096.123000,.TCB1
340,912980.8309,607832.5623,1095.633300,.G1
341,912981.66690200,607874.0397,1095.585300,.G1
342,912981.0346,607874.0276,1096.018800,.TCB1!.CB

343,912976.0575,607874.4004,1096.136700,.CB
344,912976.7217,607899.6696,1096.156100,.CB
345,912981.66190200,607899.5351,1096.026600,.CB!.TCB1
346,912981.7491,607876.9275,1095.347800,.G1
347,912982.1613,607897.5999,1095.331600,.G1
348,912982.2916,607899.70960100,1095.508600,.G1
349,912982.9838,607931.8604,1095.682500,.G1
350,912982.3329,607931.92150100,1096.160400,.TCB1
351,912980.7229,607969.2900,1095.780300,SSP SPEED 40
352,912983.3969,607982.31370100,1096.261900,.TCB1
353,912983.9544,607982.4161,1095.802200,.G1
354,912984.9634,608032.0231,1095.934600,.G1!
355,912984.4040,608032.0747,1096.433500,.TCB1!
356,913017.0484,608031.7123,1096.996500,P
357,913015.8195,607981.6476,1096.850900,P
358,913034.72200200,607953.01360100,1096.426200,SSMH
359,913015.1248,607931.7862,1096.750500,P
360,913013.2903,607882.1712,1096.674200,P
361,913011.8434,607832.3000,1096.52,P
362,913010.8680,607782.4476,1096.387200,P
363,913010.1045,607732.1603,1096.217600,P
364,913008.7173,607682.5241,1096.151300,P
365,912991.8086,607692.6061,1095.901300,WV
366,912980.5622,607682.7820,1095.870300,SDMH
367,913028.8741,607667.1901,1095.838100,SDMH
368,913007.5985,607632.7039,1096.010100,P
369,913007.1226,607608.4848,1095.974700,P
370,913033.7201,607626.57000100,1095.690200,WV
371,913006.4233,607582.6403,1095.905300,P
372,913006.9027,607557.5352,1095.703400,P
373,913005.0730,607533.0666,1095.748900,P
374,912979.8636,607583.12880100,1095.674200,SSMH
375,913029.2330,607547.0606,1095.841300,MH UNKNOWN
376,913156.28080200,607527.8180,1096.30,.G
377,913156.3062,607528.37860100,1096.771000,.TCB
378,913156.2055,607533.47920100,1096.839800,.SW
379,913152.4329,607537.6520,1096.671800,SSP GLENDALE
380,913130.3266,607552.6380,1097.012700,NG
381,913130.5752,607534.12250100,1096.928200,.SW
382,913130.4538,607529.0838,1096.859900,.TCB
383,913130.42060200,607528.5261,1096.346500,.G
384,913106.2377,607529.3360,1096.389200,.G
385,913106.2694,607529.8895,1096.840400,.TCB
386,913106.4627,607534.8880,1096.984300,.SW
387,913106.5139,607536.9396,1096.830200,PP NS
388,913074.3173,607536.0182,1097.120800,.SW
389,913073.83240200,607531.0570,1097.000500,.TCB
390,913073.8169,607530.4608,1096.501900,.G
391,913061.3844,607533.3472,1096.31,.G-
392,913061.6283,607533.8890,1096.770100,.TCB-
393,913069.83110200,607536.7065,1097.004000,.SW-
394,913064.54670200,607538.36880100,1096.991000,TS
395,913063.1426,607538.7061,1096.987700,.SW
396,913053.6237,607538.0819,1096.118500,.G-
397,913054.0076,607538.5620,1096.247700,.TCB-
398,913048.3959,607544.2960,1096.124700,.TCB-
399,913047.8957,607543.8906,1096.045700,.G-

400,913047.10180200,607553.4837,1096.709600,.SW
401,913042.8499,607551.4802,1095.773800,.G-
402,913043.3341,607551.8099,1096.364600,.TCB-
403,913048.1052,607554.2203,1096.809000,TS
404,913045.2306,607560.1098,1096.458800,.SW-
405,913044.4728,607567.2236,1096.314600,.SW
406,913040.4098,607566.7410,1096.218600,.TCB
407,913039.9888,607566.8403,1095.741900,.G
408,913110.6583,607559.3286,1096.655900,TRM 12"
409,913082.8991,607562.6425,1096.230700,TRM 4"
410,913069.5253,607555.7981,1096.700300,NG
411,913066.3959,607573.6474,1096.508800,.W 11'
412,913066.61160200,607589.4402,1096.394800,.W
413,913061.3611,607589.7686,1096.557800,.W
414,913045.3382,607583.2179,1096.282100,.SW
415,913041.2353,607583.63970100,1096.264900,.TCB
416,913040.8313,607583.68130100,1095.706600,.G
417,913046.44260200,607589.2031,1096.288000,.SW
418,913046.8524,607605.7579,1096.206000,.SW
419,913041.8140,607605.8476,1096.141700,.TCB
420,913041.2100,607605.9737,1095.644300,.G
421,913061.7195,607610.1280,1096.591000,.W
422,913052.6990,607613.2654,1096.315300,TRU 12"
423,913058.6356,607620.9384,1096.467100,TRU 4"
424,913062.1127,607631.2335,1096.522400,.W
425,913047.4839,607631.7617,1096.175200,.SW
426,913042.5291,607632.0021,1096.113600,.TCB
427,913041.8833,607631.9789,1095.591800,.G
428,913051.8773,607660.1327,1096.351000,PP NSEW
429,913062.8983,607665.7254,1096.666300,.W
430,913054.4012,607665.9284,1096.530100,.W
431,913054.6212,607680.1509,1096.464700,.W
432,913048.71460200,607682.0358,1096.124400,.SW
433,913043.7256,607681.9502,1096.034400,.TCB
434,913043.1095,607681.8819,1095.552200,.G
435,913052.35920200,607701.23270100,1096.241200,DG
436,913052.2917,607708.0520,1096.223400,DG
437,913055.7339,607732.1025,1096.478700,.W
438,913049.8062,607732.2982,1096.003700,.SW
439,913043.8873,607719.1046,1095.231100,.G CURBINLET
440,913044.27360200,607733.15580100,1095.253500,.G CURBINLET
441,913044.2765,607734.3305,1095.370400,.G
442,913044.94020200,607734.3294,1095.888700,.TCB
443,913056.0309,607744.0868,1096.521600,.W!
444,913053.0285,607761.4587,1095.928100,PP NSEW
445,913061.4506,607764.5334,1096.564000,TRU 12"
446,913057.0352,607778.1272,1096.365500,EBX
447,913062.2525,607794.1526,1096.320800,TRU 8"
448,913050.9368,607783.15930100,1096.014600,.SW!
449,913045.9035,607781.9046,1095.949800,.TCB!
450,913045.2500,607781.86900100,1095.467000,.G!
451,913059.7985,607910.5934,1096.328100,40D
452,912964.01860200,607603.7572,1096.202700,CP 3
453,913403.5949,607455.51600100,1094.603200,.TCB
454,913403.6072,607456.11640100,1094.118200,.G
455,913456.0788,607448.66540100,1094.605600,.SW
456,913456.1771,607442.7339,1094.697600,.SW1

457,913454.4738,607423.6173,1091.873900,NG
458,913463.4708,607448.6242,1094.574900,.SW
459,913463.2687,607455.5797,1094.418600,.SW!.TCB
460,913463.26010200,607456.22810100,1093.950800,.G
461,913472.2983,607456.1228,1093.904400,.G
462,913472.2626,607455.6241,1093.976000,.TCB
463,913485.2838,607452.0832,1094.390400,.SW
464,913485.2378,607448.6184,1094.505400,.SW
465,913505.1826,607448.5623,1094.446200,.SW
466,913504.9507,607442.7139,1094.574500,.SW1
467,913530.9528,607442.2908,1094.650200,.SW1-
468,913531.8869,607448.1441,1094.561300,.SW-
469,913549.0311,607443.5815,1094.766900,.SW
470,913547.1871,607438.0030,1094.868600,.SW1
471,913558.0122,607434.7274,1094.984200,.SW1-
472,913559.8503,607440.3362,1094.913600,.SW-
473,913570.8452,607439.67890100,1094.943500,.SW
474,913570.67910200,607433.93740100,1095.010700,.SW1
475,913604.9061,607433.95720100,1095.117300,.SW1
476,913605.0233,607439.81020100,1095.035700,.SW
477,913655.7142,607439.8986,1095.126500,.SW
478,913655.4809,607434.0194,1095.196600,.SW1
479,913705.35790200,607434.0424,1095.268100,.SW1
480,913705.5060,607439.9273,1095.168600,.SW
481,913748.5427,607439.82460100,1095.303200,.SW
482,913748.5657,607433.9834,1095.219200,.SW1
483,913754.1069,607434.4911,1095.252000,.SW1-
484,913753.1959,607440.5966,1095.220800,.SW-
485,913758.4553,607441.5259,1095.211800,.SW
486,913759.3765,607435.73880100,1095.241600,.SW1
487,913779.4811,607441.1568,1094.984800,.SW1
488,913778.10680200,607446.7234,1095.019300,.SW
489,913786.8234,607448.4716,1094.972800,.SW-
490,913787.59220200,607442.7225,1094.993500,.SW1-
491,913793.3845,607443.0976,1095.004000,.SW1
492,913793.3999,607448.9640,1094.909900,.SW
493,913835.5890,607449.0816,1094.991900,.SW
494,913835.3591,607443.19610100,1095.051400,.SW1
495,913802.7513,607428.3287,1094.475000,NG
496,913754.1252,607419.83200100,1092.995400,NG
497,913753.5268,607449.9621,1094.802300,LP
498,913824.4401,607451.8883,1094.672200,TROL 3"
499,913795.3744,607452.2706,1094.821300,TROL 3"
500,913767.36790200,607451.5202,1094.772700,TROL 3"
501,913728.39360200,607450.3513,1094.647700,TROL 3"
502,913701.1062,607418.8220,1092.598500,NG
503,913654.7890,607426.06740100,1093.859000,NG
504,913604.0170,607420.2015,1092.151700,NG
505,913588.0355,607449.0445,1094.445000,TROL 3"
506,913596.2308,607447.9831,1094.489200,TSP FLUSH
507,913554.3428,607424.6218,1092.984100,NG
508,913527.8043,607451.5786,1094.249700,TROL 3"
509,913511.2362,607449.5486,1094.664000,LP
510,913507.6622,607451.1623,1093.784000,SSP SIGNAL
511,913476.3569,607455.6158,1093.977900,.TCB
512,913476.3340,607456.16170100,1093.925100,.G
513,913485.5552,607456.2552,1093.829800,.G

514,913485.5352,607455.61030100,1094.330200,.TCB
515,913487.7830,607456.2811,1093.649100,.G
516,913508.4031,607456.2929,1093.715600,.G
517,913510.6478,607456.3059,1093.790600,.G
518,913485.5238,607455.5120,1094.339200,.CB
519,913485.5437,607452.1557,1094.337900,.CB
520,913510.3853,607452.2077,1094.278900,.CB
521,913510.4164,607455.6365,1094.279700,.CB!.TCB
522,913517.5999,607453.9555,1094.421800,SDMH
523,913532.7419,607460.3162,1094.023200,SSP DELINEATOR
524,913555.0488,607455.6394,1094.419500,.TCB
525,913555.0575,607456.3585,1093.986900,.G
526,913605.8697,607456.4338,1094.090700,.G
527,913605.8656,607455.8337,1094.576000,.TCB
528,913654.9223,607455.8736,1094.641900,.TCB
529,913654.9172,607456.5235,1094.171500,.G
530,913681.8882,607460.48030100,1094.341300,SSP DELINEATOR
531,913705.2274,607456.5704,1094.241500,.G
532,913705.2512,607455.9971,1094.691700,.TCB
533,913755.6347,607456.0715,1094.719200,.TCB
534,913755.7081,607456.6979,1094.236600,.G
535,913804.4381,607456.7478,1094.321600,.G
536,913804.4519,607456.1387,1094.801300,.TCB
537,913830.6439,607459.1450,1094.484200,SSP DELINEATOR
538,913835.8124,607456.8064,1094.423700,.G
539,913835.74050200,607456.1681,1094.843000,.TCB
540,913844.9420,607456.0628,1094.482400,.TCB
541,913844.9652,607456.7363,1094.421200,.G
542,913849.0594,607456.8403,1094.42,.G
543,913848.9263,607456.2439,1094.523100,.TCB
544,913835.8941,607456.04650100,1094.863100,.SW!
545,913857.96350200,607456.8188,1094.375500,.G
546,913857.88490200,607456.1672,1094.859500,.TCB.SW
547,913858.00380200,607449.1552,1095.018400,.SW
548,913857.98550200,607443.2776,1095.126800,.SW1
549,913865.0240,607442.8422,1095.164400,.SW1-
550,913866.1235,607448.6570,1095.072600,.SW-
551,913875.6024,607447.1676,1095.147100,.SW
552,913874.3135,607441.4342,1095.216400,.SW1
553,913891.5421,607438.14580100,1095.285200,.SW1!
554,913893.5080,607443.8434,1095.268100,.SW!
555,913904.2693,607456.2690,1094.940700,.TCB!
556,913904.2759,607456.8744,1094.451600,.G!
557,913904.5786,607491.93980100,1095.268700,P
558,913854.1443,607491.5936,1095.129300,P
559,913836.6601,607520.09200100,1094.503100,WV
560,913805.8018,607491.4756,1094.951600,SDMH
561,913788.0515,607478.1233,1094.825500,WV
562,913754.3993,607491.34440100,1094.912300,P
563,913704.4286,607491.3401,1094.801500,P
564,913654.3821,607491.6767,1094.755300,P
565,913604.2907,607491.82960100,1094.656000,P
566,913554.5804,607492.6056,1094.579500,P
567,913516.6825,607487.6319,1094.465300,SDMH
568,913492.3020,607499.9135,1094.334000,SSMH
569,913499.0245,607483.82370100,1094.414500,BCS
570,913454.7892,607491.9125,1094.552800,P

571,913404.4410,607490.5893,1094.801800,P
572,913354.5168,607491.8000,1095.125800,P
573,913304.2879,607490.78800100,1095.718100,P
574,913265.1543,607474.8952,1095.962300,WV
575,913166.6833,607544.37880100,1096.783600,.EP
576,913145.4151,607565.7482,1096.893600,.EP-
577,913096.2848,607569.5527,1096.701300,.W 11'
578,913126.2571,607569.4168,1096.800100,.W 11'
579,913128.1536,607573.2641,1096.797000,.W!.EP!
580,913136.43170200,607591.17280100,1096.791500,.W 11'
581,913138.6111,607595.3220,1096.575700,.W 11'
582,913203.9630,607595.65450100,1096.302300,.W!
583,913222.0913,607578.6480,1096.240500,.EP
584,913208.82630200,607555.3118,1096.420300,.EP-
585,913204.3138,607532.1993,1096.656800,.EP!.SW
586,913204.3861,607527.1267,1096.575600,.TCB
587,913204.35440200,607526.5443,1096.096600,.G
588,913234.5550,607525.8271,1095.724900,.G
589,913239.2828,607525.8105,1095.651000,.G
590,913234.3857,607526.4608,1096.223000,.TCB
591,913239.38380200,607526.3587,1095.755900,.TCB
592,913234.3854,607529.1790,1096.289200,EMH
593,913234.6148,607531.4597,1096.333300,.SW
594,913284.6866,607530.2903,1095.785000,.SW
595,913279.5341,607524.8125,1095.206500,.G
596,913284.5483,607524.64820100,1095.149800,.G
597,913279.5623,607525.3868,1095.284100,.TCB
598,913284.4925,607525.2632,1095.605200,.TCB
599,913304.0688,607524.7844,1095.403000,.TCB
600,913304.0048,607524.1927,1094.915100,.G
601,913304.1052,607529.7913,1095.445000,.SW
602,913334.4655,607529.0932,1095.063800,.SW
603,913334.4951,607524.0455,1094.904300,.TCB
604,913334.4739,607523.4192,1094.443000,.G
605,913353.8644,607523.4539,1094.229000,.G
606,913353.8983,607524.0059,1094.70,.TCB
607,913353.5576,607528.96460100,1094.710900,.SW
608,913351.9939,607532.0270,1094.828700,TMH
609,913350.3154,607547.9936,1094.223000,.W 5'
610,913351.2594,607587.9479,1094.806900,.W!
611,913370.0415,607529.6799,1094.702800,PP LAMP NS
612,913367.6872,607530.5324,1094.889100,TPD
613,913364.2158,607532.5646,1094.699700,SSP 40MPH
614,913405.04560200,607523.4507,1093.992100,.G
615,913405.1011,607524.04150100,1094.499600,.TCB
616,913405.1940,607529.0211,1094.598600,.SW
617,913406.2285,607555.5495,1094.471800,NG
618,913453.9527,607554.4475,1094.388600,NG
619,913454.0746,607529.3118,1094.455800,.SW
620,913454.6605,607524.3596,1094.359400,.TCB
621,913454.6856,607523.7652,1093.836200,.G
622,913459.6030,607523.2698,1093.773000,GRT
623,913477.4544,607523.1242,1093.405800,GRT
624,913462.9588,607523.7404,1093.851400,.G
625,913462.9796,607524.3767,1094.306500,.TCB
626,913462.7928,607529.3539,1094.452000,.SW
627,913466.2510,607529.6346,1094.443500,.SW-

628,913468.9972,607530.6537,1094.450600,.SW
629,913476.3673,607537.2921,1094.243300,.SW
630,913478.2786,607543.7001,1094.040100,.SW!
631,913470.6010,607525.1166,1093.906500,.G-
632,913470.3718,607525.65580100,1094.424300,.TCB-
633,913474.9033,607528.2566,1094.001200,.TCB-
634,913475.30280200,607527.9225,1093.898500,.G-
635,913478.6174,607531.2948,1093.848000,.G-
636,913478.2280,607531.6962,1093.952700,.TCB-
637,913480.4075,607535.3722,1094.245600,.TCB-
638,913480.9321,607535.13250100,1093.739000,.G-
639,913482.7819,607543.4830,1093.599200,.G!
640,913482.1812,607543.7914,1093.981800,.TCB!
641,913477.2153,607544.0793,1094.070800,LP
642,913481.8068,607523.97070100,1093.405100,VG
643,913517.2565,607523.9183,1093.546400,VG
644,913500.3245,607545.51710100,1093.780500,P
645,913514.88880200,607545.1300,1093.589500,WV
646,913523.4497,607545.2909,1094.047600,FH
647,913522.3334,607545.8234,1093.936200,.SW
648,913518.3386,607546.12270100,1093.914800,.TCB
649,913517.6732,607545.9934,1093.419200,.G
650,913523.9740,607541.18520100,1094.122200,SSP STOP
651,913522.6391,607541.1978,1094.051000,.SW-
652,913524.2512,607540.84940100,1094.147100,.RWL 2'
653,913524.1884,607536.6851,1094.275000,.RWL 2'
654,913523.35310200,607537.1810,1094.18,.SW
655,913522.3794,607531.4381,1093.774200,.TCB-
656,913524.3394,607529.3132,1093.859400,.TCB-
657,913521.9603,607531.2098,1093.706600,.G-
658,913523.8937,607528.9669,1093.767200,.G-
659,913528.1003,607525.9959,1093.869500,.G-
660,913528.4276,607526.4615,1094.250400,.TCB-
661,913530.39860200,607529.5841,1094.335000,.RWL.SW
662,913537.1417,607523.7932,1093.756700,.G
663,913537.1360,607524.4237,1094.199300,.TCB
664,913538.3511,607530.4048,1095.446400,PP NS
665,913538.6690,607531.5996,1095.620100,TPD
666,913561.25030200,607529.5440,1094.287900,.RWL
667,913561.0488,607531.89580100,1094.393000,.RWL!.W 5'
668,913563.5170,607530.4998,1094.188400,TPD
669,913603.4726,607530.7663,1094.491400,PP NS
670,913605.41430200,607529.5534,1094.464900,.SW
671,913605.8533,607524.5741,1094.510800,.TCB
672,913605.8630,607523.9543,1094.051800,.G
673,913620.3965,607531.1661,1094.539400,DG
674,913626.0378,607531.0909,1094.631900,DG
675,913655.8478,607531.7521,1094.540300,.W
676,913655.7504,607537.20330100,1094.680700,.W!
677,913644.6818,607523.5127,1094.176000,GRT
678,913655.0278,607526.3389,1094.268800,GRT
679,913647.6793,607523.9882,1094.226100,.G
680,913647.6675,607524.7115,1094.678300,.TCB
681,913647.8430,607529.7574,1094.781200,.SW
682,913653.62030200,607529.6614,1094.289700,.SW
683,913656.4026,607529.7338,1094.257800,.SW
684,913661.5444,607529.7179,1094.872400,.SW

685,913653.3154,607524.2350,1094.233400,.G
686,913656.5980,607524.1713,1094.250600,.G
687,913661.3455,607524.0678,1094.334900,.G!
688,913653.4056,607524.79910100,1094.292500,.TCB
689,913656.5754,607524.7471,1094.251300,.TCB
690,913661.5129,607524.8159,1094.778300,.TCB!.SW!
691,913658.8100,607532.8192,1094.870700,TPD
692,913662.0650,607530.2068,1094.696900,TPD
693,913662.0474,607536.96680100,1094.710800,.F 4'C/L
694,913661.9989,607532.3338,1094.616400,.F 4'C/L
695,913665.2365,607524.8027,1094.756800,.F!.W 5'
696,913667.9148,607537.8129,1094.814300,.W!
697,913665.0357,607533.2325,1094.772000,TRU 24"
698,913680.1217,607533.9430,1094.711000,.W 5'
699,913680.1257,607524.7078,1094.605600,.W 5'
700,913681.6675,607523.4884,1094.471700,MB
701,913666.4292,607524.9048,1094.741000,.C
702,913679.7583,607524.6822,1094.718300,.C!.EP
703,913673.1862,607538.65190100,1094.701100,C
704,913680.8712,607519.0889,1094.384800,.EP-
705,913689.1213,607515.86880100,1094.346500,.EP
706,913696.1709,607522.8878,1094.390100,WM
707,913704.97810200,607524.4209,1094.897600,.W
708,913704.9055,607515.5699,1094.357300,.EP
709,913754.4340,607515.43260100,1094.355300,.EP
710,913755.0256,607524.7751,1095.329300,.W
711,913775.9774,607524.5962,1095.024100,.W!.F 4'C/L
712,913776.2417,607544.2927,1094.978900,.F!
713,913777.1345,607514.8952,1094.397800,.EP
714,913789.7581,607517.69720100,1094.396700,.EP-
715,913801.01490200,607522.7452,1094.406600,.EP!.C
716,913800.9577,607528.9094,1094.447600,.C
717,913806.8488,607528.9952,1094.470500,.C
718,913806.9930,607525.7301,1094.299300,.C
719,913840.6695,607525.7902,1094.415900,.C
720,913840.9289,607545.8066,1094.965700,.C!
721,913863.8234,607523.0313,1094.430300,.C
722,913841.5709,607524.2517,1094.356800,VG
723,913807.3560,607524.3010,1094.243200,VG
724,913801.0326,607522.8044,1094.406700,.C!
725,913803.3366,607527.1566,1094.212800,GRT
726,913806.5298,607536.3121,1094.928300,SSMH
727,913807.5581,607544.82000100,1094.942300,.G
728,913806.9575,607544.7859,1095.452600,.TCB.SW
729,913803.0224,607544.9260,1095.559900,.SW
730,913803.1733,607555.1662,1095.595700,.SW!
731,913807.1886,607555.1983,1095.526600,.TCB!
732,913807.84700200,607555.1629,1095.051500,.G!
733,913824.3995,607554.4440,1095.136800,P
734,913842.3935,607553.5905,1094.938700,.G
735,913843.0396,607553.6483,1095.441200,.TCB
736,913847.0762,607553.6383,1095.464200,.SW
737,913848.2369,607554.02210100,1095.471300,WM
738,913850.50400200,607554.1513,1095.759600,ICV
739,913847.5596,607546.0238,1095.353000,SSP STOP
740,913846.8806,607545.7380,1095.516300,.SW
741,913842.90340200,607545.7222,1095.493000,.TCB

742,913842.24900200,607545.75860100,1094.951100,.G
743,913845.5385,607533.70700100,1094.727700,.G-
744,913851.5277,607527.8423,1094.475700,.G-
745,913846.0178,607533.9584,1094.688300,.TCB-
746,913851.7049,607528.3376,1094.497600,.TCB-
747,913863.9565,607524.9662,1094.819700,.TCB.SW1
748,913863.78950200,607524.33220100,1094.366100,.G
749,913865.5090,607528.3657,1094.763300,LP
750,913863.8627,607532.1578,1094.910400,.SW1
751,913853.2877,607537.96440100,1095.312700,.SW-
752,913863.8613,607536.8938,1095.022000,.SW
753,913852.2127,607556.4195,1095.816100,.W 6'
754,913855.6036,607546.7481,1095.398000,.W-
755,913878.1450,607541.1319,1095.270100,.W
756,913881.24050200,607539.3030,1095.059000,EBX
757,913887.70850200,607538.9778,1095.042300,TRU 8"
758,913891.9281,607539.6417,1094.992400,TPD
759,913903.9249,607540.6080,1095.044400,.W
760,913904.2672,607537.7004,1095.043800,TRU 8"
761,913904.42060200,607537.0084,1095.091200,.SW
762,913904.6403,607532.1054,1095.041800,.SW1
763,913904.7998,607525.0199,1094.967600,.TCB
764,913904.7610,607524.4454,1094.449800,.G
765,913954.2079,607524.5829,1094.473600,.G
766,913954.1438,607525.1489,1095.017400,.TCB
767,913949.2927,607529.1922,1094.846500,TRPN 10"
768,913953.1172,607532.22180100,1095.094600,.SW1
769,913953.22440200,607537.1021,1095.097800,.SW
770,913953.1260,607540.4956,1094.865900,.W
771,913947.9536,607539.3538,1095.000900,TRU 4"
772,913994.5740,607538.9658,1095.097000,TRU 6"
773,914009.0019,607528.8929,1094.803300,TRU 6"
774,914021.9307,607539.6395,1095.111500,TRU 6"
775,914010.1478,607540.6625,1095.069800,.W!
776,914003.8710,607537.2038,1095.357600,.SW
777,914006.2741,607532.2699,1095.137300,.SW1
778,914005.9497,607525.2798,1095.104700,.TCB
779,914190.2942,607455.7894,1095.369500,40D
780,913423.9067,607460.88100100,1094.184300,CP 183
781,914047.3405,607528.6719,1094.979200,LP
782,914053.1149,607524.68370100,1094.689500,.G
783,914053.1746,607525.31260100,1095.202000,.TCB
784,914052.3350,607532.4279,1095.299600,.SW1
785,914054.4882,607537.3095,1095.420500,.SW
786,914053.5900,607540.6968,1095.413600,.W
787,914067.5269,607529.1916,1094.990500,TRPN 8"
788,914104.0126,607540.6359,1095.381000,.W
789,914103.6906,607537.4325,1095.388700,.SW
790,914103.5026,607532.55390100,1095.322200,.SW1
791,914103.6869,607525.4237,1095.263000,.TCB
792,914103.6562,607524.8075,1094.738600,.G
793,914142.5132,607529.4207,1095.105400,TRU 8"
794,914175.7377,607528.4550,1095.106400,TRU 8"
795,914199.16690200,607537.7214,1095.462600,TRU 8"
796,914216.91820200,607528.7066,1095.142600,TRU 8"
797,914154.9874,607540.5973,1095.631900,.W
798,914153.3962,607537.45700100,1095.463500,.SW

799,914153.0314,607532.5863,1095.386600,.SW1
800,914153.0742,607525.4478,1095.237500,.TCB
801,914153.0742,607524.81850100,1094.743600,.G
802,914203.8400,607524.9388,1094.767100,.G
803,914203.9563,607525.5325,1095.271200,.TCB
804,914203.8232,607532.6464,1095.392300,.SW1
805,914203.30410200,607537.4942,1095.461100,.SW
806,914203.8700,607540.5449,1095.421500,.W
807,914224.1048,607528.93390100,1095.135200,LP
808,914253.6762,607540.55630100,1095.660400,.W
809,914253.8138,607537.6126,1095.584100,.SW
810,914254.3732,607532.72180100,1095.539500,.SW1
811,914254.1698,607525.6058,1095.373100,.TCB
812,914254.2668,607525.0078,1094.908800,.G
813,914267.9174,607539.1836,1095.552000,TRU 6"
814,914298.0282,607530.0636,1095.311100,TRPN 8"
815,914302.6885,607537.8069,1095.688500,.SW
816,914306.81870200,607537.3299,1095.740100,.SW-
817,914312.7558,607534.9457,1095.694900,.SW
818,914318.5337,607531.8901,1095.568500,.SW-
819,914323.3255,607530.71440100,1095.561800,.SW
820,914302.0984,607532.9737,1095.593500,.SW1
821,914305.3255,607532.6828,1095.588800,.SW1-
822,914310.93040200,607530.3683,1095.582200,.SW1
823,914316.7863,607527.42780100,1095.505100,.SW1
824,914317.5322,607526.6655,1095.511500,.SW1-
825,914317.6529,607525.7489,1095.47,.SW1!
826,914303.6999,607525.6933,1095.437000,.TCB
827,914303.8262,607525.1271,1094.953900,.G
828,914304.5281,607540.6009,1095.781800,.W
829,914304.6311,607550.9195,1096.298500,.W
830,914323.2494,607550.1009,1096.602000,.W
831,914323.0683,607540.3574,1095.944900,.W
832,914319.6415,607540.6557,1096.313000,.EBX
833,914319.6295,607546.8092,1096.432900,.EBX
834,914315.6523,607546.8392,1096.419000,.EBX
835,914315.6358,607540.5543,1096.308000,.EBX+
836,914313.2200,607540.7395,1096.107800,.EBX
837,914313.3566,607545.2174,1096.288900,.EBX
838,914307.9958,607545.1744,1096.285500,.EBX
839,914308.3519,607540.7611,1096.135000,.EBX+
840,914352.7349,607540.6809,1096.214600,.W
841,914353.5327,607531.0814,1095.627700,.SW
842,914354.0921,607526.1152,1095.486500,.TCB
843,914354.1058,607525.4542,1094.958300,.G
844,914375.1472,607534.4343,1095.779900,DG
845,914395.0139,607534.5558,1096.037600,EBX
846,914396.98920200,607534.3739,1095.773400,PP LAMP N
847,914393.7176,607540.5470,1096.494700,.W END6' BEG2'
848,914409.9619,607531.82000100,1095.716200,.SW
849,914410.1994,607526.7929,1095.617900,.TCB
850,914410.1771,607526.1976,1095.090600,.G
851,914420.0849,607528.6461,1095.232900,.G-
852,914423.5120,607530.8916,1095.249000,.G-
853,914426.2132,607533.4820,1095.335000,.G-
854,914428.7005,607537.1426,1095.350500,.G-
855,914431.2103,607545.6907,1095.373400,.G!

856,914419.6668,607529.2362,1095.664100,.TCB-
857,914423.16820200,607531.4044,1095.319600,.TCB-
858,914425.8597,607533.88490100,1095.406300,.TCB-
859,914428.2891,607537.55650100,1095.764200,.TCB-
860,914430.6590,607545.4983,1095.719100,.TCB!
861,914421.7730,607535.9708,1095.747700,.SW-
862,914425.17410200,607540.4281,1095.776400,.W
863,914426.6064,607544.7044,1095.793700,.SW!.W!
864,914430.1392,607526.7963,1095.197200,VG
865,914465.77580200,607527.1615,1095.314000,VG
866,914446.93390200,607551.8135,1095.792600,P
867,914456.3736,607549.7948,1095.715500,WV
868,914470.9125,607553.3732,1095.908300,SSP STOP
869,914471.4915,607549.6489,1095.933400,FH
870,914474.0562,607556.9250,1096.413400,.RWL 3'
871,914465.6572,607549.3365,1095.506600,.G
872,914466.2458,607549.3425,1095.862200,.TCB
873,914470.2406,607549.1861,1095.940100,.SW
874,914481.1063,607542.86770100,1096.415400,.RWL-
875,914475.3640,607536.8736,1095.933000,.SW-
876,914468.1788,607538.0288,1095.446000,.G-
877,914470.37510200,607534.8238,1095.465100,.G-
878,914473.4593,607532.0307,1095.474400,.G-
879,914477.0086,607529.7159,1095.414600,.G-
880,914468.5757,607538.3811,1095.926500,.TCB-
881,914470.8371,607535.1305,1095.467300,.TCB-
882,914473.8031,607532.4034,1095.476200,.TCB-
883,914477.30040200,607530.2216,1095.833000,.TCB-
884,914485.8281,607527.46810100,1095.313400,.G
885,914485.8351,607528.0313,1095.771200,.TCB
886,914485.6689,607533.0035,1095.954100,.SW
887,914487.5866,607541.0673,1096.396200,.RWL
888,914503.6051,607540.57110100,1096.502500,.RWL!
889,914503.4567,607533.2887,1095.941300,.SW!
890,914503.6579,607528.2626,1095.827100,.TCB!
891,914503.6938,607527.67890100,1095.343300,.G!
892,914503.04800200,607496.4702,1096.117500,P
893,914453.0815,607494.0344,1096.066800,P
894,914440.8972,607510.7984,1095.781300,SSMH
895,914453.6850,607522.6817,1095.476800,WV
896,914412.3010,607510.2963,1095.747300,SSMH
897,914403.4433,607493.6181,1096.003700,P
898,914353.1181,607491.79520100,1095.940300,P
899,914303.0998,607492.1157,1095.841900,P
900,914330.80280200,607519.7074,1095.245800,WV
901,914268.9385,607517.5712,1095.186000,WV
902,914271.8981,607479.59180100,1095.651500,WV
903,914266.0942,607479.2935,1095.604600,WV
904,914269.1337,607476.8036,1095.587300,WV
905,914203.6762,607491.9601,1095.643600,P
906,914153.8535,607490.4645,1095.633100,P
907,914103.1115,607490.0146,1095.548900,P
908,914054.1320,607489.9351,1095.393800,P
909,914004.04300200,607489.8612,1095.306400,P
910,913954.2119,607489.57610100,1095.291800,P
911,913893.70370200,607443.6759,1095.256800,.SW
912,913891.9838,607438.1105,1095.424600,.SW1

913,913909.6531,607435.0167,1095.367600,.SW1-
914,913909.7983,607440.6533,1095.294400,.SW-
915,913913.3933,607450.0433,1095.271000,LP
916,913930.7378,607434.32370100,1095.469300,.SW1
917,913930.8141,607440.1592,1095.433300,.SW
918,913951.6604,607440.3580,1095.472700,.SW
919,913952.7438,607434.3684,1095.521700,.SW1
920,914002.5077,607434.4587,1095.614100,.SW1
921,914002.2168,607440.5747,1095.376300,.SW
922,914053.7725,607440.3623,1095.535200,.SW
923,914053.8487,607434.5448,1095.650300,.SW1
924,914096.8235,607429.9898,1096.075300,.W 8'
925,914105.1074,607434.6334,1095.743400,.SW1
926,914147.1151,607440.6542,1095.739100,.SW
927,914147.2559,607434.8267,1095.824500,.SW1
928,914146.6444,607430.26840100,1096.146700,.W
929,914160.2837,607436.3748,1095.763400,.SW1-
930,914158.9576,607442.1115,1095.694200,.SW-
931,914174.1814,607448.1213,1095.611200,.SW
932,914176.4904,607442.72310100,1095.677700,.SW1
933,914183.65450200,607452.1199,1095.528700,.SW-
934,914188.9114,607454.0718,1095.461700,.SW!
935,914200.7245,607450.5574,1095.541600,.SW1-
936,914216.4603,607448.4782,1095.657700,.SW1
937,914232.9181,607434.58940100,1095.803900,.SW1
938,914234.8290,607428.5132,1095.753800,.SW1-
939,914235.4604,607421.7301,1095.669100,.SW1
940,914217.7594,607430.4600,1096.465900,.W
941,914232.6326,607416.3426,1095.880900,.W!
942,914233.8775,607428.9592,1095.666400,SSP STOP
943,913904.1973,607456.3308,1094.894600,.TCB
944,913904.26120200,607456.9686,1094.423300,.G
945,913954.54800200,607457.0241,1094.559600,.G
946,913954.5185,607456.3842,1094.982400,.TCB
947,914004.9179,607456.4547,1095.095800,.TCB
948,914004.8963,607457.1200,1094.583300,.G
949,914053.8719,607457.2249,1094.666400,.G
950,914053.9901,607456.5363,1095.143300,.TCB
951,914104.2587,607456.6571,1095.245300,.TCB
952,914104.2238,607457.30020100,1094.806700,.G
953,914113.35940200,607450.5484,1095.397800,LP
954,914122.6469,607450.7591,1095.416600,TRM 3"
955,914161.2698,607450.2804,1095.525300,TROL 3"
956,914153.9552,607457.4484,1094.872800,.G
957,914153.9178,607456.8108,1095.361300,.TCB
958,914205.1120,607456.8176,1095.444500,.TCB
959,914204.9772,607457.4983,1094.958100,.G
960,914219.1494,607454.39210100,1095.127200,.G-
961,914226.2280,607450.1319,1095.211500,.G-
962,914232.3599,607444.0905,1095.276400,.G-
963,914237.2101,607436.2628,1095.320300,.G-
964,914240.1432,607421.8695,1095.151400,.G!
965,914218.8022,607453.9000,1095.564700,.TCB-
966,914225.86420200,607449.8299,1095.236200,.TCB-
967,914231.9580,607443.8009,1095.286700,.TCB-
968,914236.66060200,607436.0841,1095.767000,.TCB-
969,914239.4612,607421.87120100,1095.566300,.TCB!.SW1!

970,914258.2866,607419.7722,1095.424900,P
971,914274.8708,607422.2982,1095.285700,.G
972,914275.4582,607422.2374,1095.739200,.TCB
973,914279.6880,607422.24270100,1095.882600,.SW
974,914282.6590,607415.60660100,1095.698800,.W 3'
975,914296.8877,607430.5315,1096.769100,.W END3' BEG7'
976,914280.3484,607429.4081,1096.004900,.SW-
977,914281.93520200,607434.3091,1096.046400,.SW
978,914298.6528,607448.8136,1096.024000,.SW
979,914305.0195,607450.59070100,1095.828000,.SW-
980,914312.64100200,607450.9881,1095.767200,.SW
981,914312.6411,607449.76970100,1095.725600,LP
982,914240.1613,607457.4000,1095.083200,VG
983,914274.5986,607457.4693,1095.159300,VG
984,914277.5910,607435.88470100,1095.507200,.G-
985,914282.5245,607444.1515,1095.593300,.G-
986,914287.8355,607449.4720,1095.580100,.G-
987,914296.1453,607454.8501,1095.465300,.G-
988,914311.1920,607457.7177,1095.187900,.G
989,914278.19130200,607435.6626,1095.959500,.TCB-
990,914282.95370200,607443.75490100,1095.623700,.TCB-
991,914288.1425,607449.0852,1095.617200,.TCB-
992,914296.29190200,607454.2423,1095.932500,.TCB-
993,914311.3745,607457.04540100,1095.633100,.TCB
994,914325.3595,607456.9089,1095.719400,.SW1
995,914325.62270200,607455.4480,1095.719200,.SW1-
996,914326.9173,607454.5240,1095.717900,.SW1
997,914326.9039,607455.8488,1095.565600,SSP RIGHT TURN
998,914319.5425,607450.3658,1095.825300,.SW-
999,914329.8902,607447.0541,1095.823300,.SW
1000,914340.8346,607443.5521,1095.916400,.SW-
1001,914341.6286,607449.4757,1095.857800,.SW1-
1002,914355.64600200,607449.8062,1095.810500,TSP FLUSH
1003,914355.2425,607457.1486,1095.698600,.TCB
1004,914355.1229,607457.7870,1095.219200,.G
1005,914364.38380200,607447.6892,1095.926700,.SW1-
1006,914363.9968,607441.6777,1096.028100,.SW-
1007,914393.7614,607442.4828,1096.068300,.SW
1008,914393.3556,607448.3136,1096.018300,.SW1
1009,914395.2978,607436.0093,1096.829400,TPD
1010,914352.3113,607430.7075,1097.559500,.W
1011,914409.8399,607443.7067,1096.053500,.SW-
1012,914409.6809,607449.5971,1096.015800,.SW1-
1013,914428.9641,607450.3034,1096.108900,.SW1
1014,914431.5899,607444.4801,1096.152200,.SW
1015,914459.7298,607444.4308,1096.122500,.SW
1016,914481.2524,607444.4419,1096.151600,.SW!
1017,914459.5907,607450.2786,1095.970100,.SW1
1018,914449.16690200,607453.0780,1095.793800,TROL 3"
1019,914424.8635,607453.4462,1095.665400,TROL 3"
1020,914399.2656,607452.3340,1095.632000,TROL 3"
1021,914402.3966,607457.8354,1095.295600,.G
1022,914402.3870,607457.26970100,1095.768700,.TCB
1023,914459.6555,607457.3822,1095.851500,.TCB.SW1!
1024,914459.6261,607457.9566,1095.420600,.G
1025,914468.64120200,607457.9886,1095.406300,.G
1026,914472.7819,607458.0350,1095.399700,.G

1027,914482.0044,607458.0093,1095.385000,.G
1028,914501.6615,607458.0834,1095.429300,.G!
1029,914468.7136,607457.3547,1095.527600,.TCB
1030,914472.7494,607457.3911,1095.481900,.TCB
1031,914481.9556,607457.4292,1095.88,.TCB
1032,914501.6725,607457.4947,1095.867100,.TCB!
1033,914456.1194,607430.7391,1098.168600,.W
1034,914501.8304,607431.0729,1097.800900,.W!
1035,912964.0128,607603.7441,1096.188600,CP 3
1036,913056.1576,607744.1183,1096.581400,.W 11'
1037,913071.9498,607743.7925,1096.725700,.W 11'
1038,913045.3219,607781.9282,1095.447400,.G
1039,913045.9423,607782.1770,1095.938900,.TCB
1040,913050.9203,607781.83810100,1095.977000,.SW
1041,913051.6405,607816.1899,1096.134300,.SW.EP
1042,913073.7017,607821.7236,1096.841200,.EP!.W!
1043,913070.2152,607817.8463,1096.912400,EMH
1044,913074.1847,607842.8787,1096.766800,.EP.W 11'
1045,913074.5391,607857.1588,1096.865100,.W!
1046,913075.2365,607862.7802,1096.898600,.W 4'
1047,913068.2670,607862.8097,1096.940700,.W 4'
1048,913046.65080200,607846.3697,1095.587100,.G
1049,913047.3072,607846.2655,1095.698800,.TCB
1050,913047.3983,607850.2740,1096.063100,.TCB
1051,913046.8043,607850.5077,1095.623000,.G
1052,913053.3472,607863.2253,1096.307600,PP NEW LAMP
1053,913068.06150200,607872.0860,1096.289000,TRM 18"
1054,913053.71700200,607887.4214,1095.955700,DG
1055,913061.0684,607890.28170100,1096.133400,SSP 75TH AVE
1056,913047.2487,607872.39210100,1095.518100,.G.GRT
1057,913045.2746,607872.3816,1095.738600,.GRT
1058,913045.60550200,607882.7182,1095.769200,.GRT
1059,913047.5368,607882.76710100,1095.561700,.G.GRT!
1060,913055.7528,607901.0031,1096.393700,EBX FLUSH
1061,913048.0534,607909.1120,1095.693600,.G
1062,913048.68780200,607909.0534,1096.191000,.TCB
1063,913053.6507,607908.5072,1096.280600,.SW
1064,913058.66190200,607915.9240,1096.465300,.SW
1065,913064.2507,607915.9166,1096.506300,.SW
1066,913069.59810200,607919.02820100,1096.611600,.W!
1067,913048.2938,607920.1298,1095.778200,VG
1068,913050.64970200,607916.4125,1095.947100,.G-
1069,913051.0307,607916.17020100,1096.339200,.TCB-
1070,913058.4862,607919.4894,1096.429200,.TCB!
1071,913058.4167,607919.9604,1096.466400,.G!
1072,913070.0649,607948.5178,1096.333800,.W 5'
1073,913064.9956,607944.24010100,1096.543100,.SW
1074,913079.3918,607933.2836,1096.666800,P
1075,913059.0097,607944.9158,1096.492000,.TCB
1076,913058.9644,607944.3874,1096.462200,.G
1077,913051.4755,607949.0440,1096.068200,.G-
1078,913051.9118,607949.2716,1096.420200,.TCB-
1079,913049.3191,607946.2123,1095.802400,VG
1080,913049.1292,607958.3692,1095.838000,.G
1081,913049.7267,607958.1590,1096.275200,.TCB
1082,913057.2840,607971.3644,1096.333300,DG
1083,913059.1489,607945.03670100,1096.489600,.SW1

1084,913059.8711,607981.8463,1096.596800,.SW1
1085,913050.23290200,607981.7325,1096.363000,.TCB
1086,913049.5769,607981.52690100,1095.859700,.G
1087,913049.9735,607997.2380,1095.946100,.G
1088,913050.5651,607997.0734,1096.382300,.TCB
1089,913056.3283,608001.9672,1096.189200,PP NSEW LAMP
1090,913050.2431,608008.2927,1095.981100,VG
1091,913052.5924,608005.50990100,1096.173300,.G-
1092,913052.96700200,608005.1919,1096.510900,.TCB-
1093,913060.3315,608008.7270,1096.633100,.TCB!.SW1!
1094,913060.3390,608009.23290100,1096.632800,.G!
1095,913065.7430,607982.3845,1096.679200,.SW
1096,913070.9896,607983.1389,1096.483800,.W
1097,913071.3146,608003.2321,1096.631600,.W
1098,913079.3999,608003.2297,1096.660900,.W!
1099,913069.7669,608002.1871,1096.578200,TPD
1100,913071.4418,608005.3432,1096.617600,.EP
1101,913068.9660,608007.57350100,1096.687400,.EP-
1102,913066.3826,608008.9261,1096.774100,.EP!.SW
1103,913081.9276,608020.8369,1096.836500,P
1104,913083.9967,608038.48790100,1097.310600,.TCB1
1105,913072.0165,608038.78300100,1097.150300,.TCB1
1106,913066.8988,608039.0401,1096.817100,.TCB1!.SW
1107,913071.2610,608043.23790100,1096.791600,WM
1108,913060.9809,608039.6130,1096.727900,.TCB.SW1
1109,913061.0200,608039.1196,1096.696600,.G
1110,913053.92040200,608042.2987,1096.281300,.G-
1111,913053.7549,608043.2628,1096.632400,.TCB-
1112,913050.8921,608041.0531,1096.024700,VG
1113,913051.1490,608049.6903,1096.041800,.G
1114,913051.8171,608049.4882,1096.481300,.TCB
1115,913052.4321,608080.8321,1096.616200,.TCB
1116,913051.85570200,608080.9566,1096.178000,.G
1117,913062.0561,608081.1345,1096.798100,.SW1
1118,913067.8719,608081.0816,1096.882400,.SW
1119,913084.9601,608080.8142,1097.162000,NG
1120,913092.5468,608132.9588,1097.029000,NG
1121,913073.1598,608143.4930,1097.057600,TPD
1122,913068.9185,608129.9600,1096.974300,.SW
1123,913063.1827,608130.0611,1096.930700,.SW1
1124,913053.53950200,608130.4784,1096.723000,.TCB
1125,913052.98660200,608130.4175,1096.243200,.G
1126,913054.0240,608181.2716,1096.350200,.G
1127,913054.6021,608181.2465,1096.849000,.TCB
1128,913064.23290200,608181.1528,1097.098200,.SW1
1129,913070.0116,608181.2243,1097.190400,.SW
1130,913099.1477,608182.1623,1096.970900,NG
1131,913063.7321,608194.24010100,1096.925500,DG
1132,913060.0188,608194.0673,1096.636700,PP SEW LAMP
1133,913055.0220,608230.4807,1096.459400,.G
1134,913055.6430,608230.4434,1096.924700,.TCB
1135,913065.3162,608230.2284,1097.219100,.SW1
1136,913071.1434,608230.1255,1097.296600,.SW
1137,913106.6411,608228.9820,1096.848100,NG
1138,913071.5350,608250.4452,1097.335300,.SW
1139,913055.3267,608241.2111,1096.499900,.G
1140,913055.9042,608241.1844,1096.964700,.TCB

1141,913055.5891,608251.1124,1096.494300,VG
1142,913058.3771,608247.7174,1096.806700,.G-
1143,913058.6726,608247.3153,1097.067800,.TCB-
1144,913065.6978,608250.4188,1097.252600,.TCB!.SW1!
1145,913065.6069,608250.8864,1097.253400,.G!
1146,913055.8490,608282.6135,1096.620700,VG
1147,913072.2975,608280.85290100,1097.393300,.SW
1148,913066.3056,608281.2887,1097.357900,.SW1.TCB
1149,913066.2078,608280.83440100,1097.321200,.G
1150,913058.5475,608284.7363,1096.765400,.G-
1151,913058.9275,608285.1141,1097.146800,.TCB-
1152,913056.9057,608290.7142,1097.098400,.TCB
1153,913056.2970,608290.7683,1096.582400,.G
1154,913057.2145,608330.3695,1096.673300,.G
1155,913057.8253,608330.3165,1097.182000,.TCB
1156,913067.4020,608329.8499,1097.384800,.SW1
1157,913073.2559,608329.73160100,1097.506800,.SW
1158,913091.8547,608329.04890100,1097.344700,NG
1159,913073.6972,608350.1200,1097.504100,.SW
1160,913057.3329,608338.0703,1096.693800,.G
1161,913057.9338,608338.1061,1097.191200,.TCB
1162,913057.7960,608350.16190100,1096.757900,VG
1163,913061.6885,608348.4492,1097.033600,.G-
1164,913062.0048,608348.0374,1097.330200,.TCB-
1165,913067.8554,608350.1520,1097.397300,.TCB!.SW1!
1166,913067.7367,608350.6603,1097.398100,.G!
1167,913074.2804,608374.97790100,1097.550400,.SW
1168,913068.3770,608374.9236,1097.459900,.SW1.TCB
1169,913068.2346,608374.5231,1097.436800,.G
1170,913066.4827,608381.0581,1097.561400,WV
1171,913062.1536,608377.5310,1097.373600,.TCB-
1172,913061.8345,608377.0309,1096.943200,.G-
1173,913058.10440200,608376.6954,1096.762300,VG
1174,913058.48050200,608387.7966,1096.764100,.G
1175,913059.0126,608387.80150100,1097.249900,.TCB
1176,913064.34220200,608386.2434,1097.248100,PP EW LAMP
1177,913095.4166,608429.3402,1097.628300,NG
1178,913075.4896,608429.9126,1097.627500,.SW
1179,913069.5540,608430.4430,1097.628200,.SW1
1180,913061.5052,608496.9923,1097.578400,.TCB
1181,913061.16430200,608497.0817,1097.038300,.G
1182,913063.2656,608506.36900100,1097.361600,.G-
1183,913063.6967,608506.0437,1097.736600,.TCB-
1184,913071.4751,608509.5925,1097.859200,.TCB!.SW1!
1185,913071.4872,608510.2124,1097.831300,.G!
1186,913077.2534,608509.4468,1097.917300,.SW!
1187,913027.5876,608530.4072,1098.172300,P
1188,913026.0379,608480.7311,1098.053500,P
1189,913025.40450200,608430.72070100,1098.060200,P
1190,913024.5545,608380.8580,1097.929200,P
1191,913023.5553,608330.9655,1097.798300,P
1192,913023.0074,608281.0155,1097.667400,P
1193,913021.7600,608231.3175,1097.537700,P
1194,913020.2206,608181.25010100,1097.407700,P
1195,913039.7774,608167.8604,1096.954100,SSMH
1196,913019.26600200,608131.43980100,1097.344200,P
1197,913018.7185,608081.1224,1097.200900,P

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1198,913017.52470200,608031.5157,1096.976000,P
1199,912967.17060200,607619.9157,1088.715700,INV #2BBL BOX
1200,912969.4447,607709.6783,1096.466700,.SW
1201,912977.9933,607740.2352,1096.287600,.SW1
1202,912975.3678,607740.2609,1096.368200,.SW1
1203,912972.7757,607741.4074,1096.367900,.SW1-
1204,912972.3262,607743.35400100,1096.425400,.SW1
1205,912967.4456,607742.9324,1096.495900,.SW
1206,912951.3357,607737.0923,1096.442900,NG
1207,912965.1477,607781.5852,1096.574200,.SW
1208,912970.01620200,607781.7876,1096.500200,.SW1
1209,912952.9499,607789.6581,1095.751700,NG
1210,912956.9792,607832.7616,1095.933800,NG
1211,912966.2232,607832.4528,1096.595700,.SW
1212,912971.1318,607832.3853,1096.518300,.SW1
1213,912940.3585,607857.3392,1095.371600,.F 5'C/L
1214,912967.26970200,607882.9216,1096.690200,.SW
1215,912972.1891,607882.6526,1096.641100,.SW1
1216,912973.1530,607932.8001,1096.776900,.SW1
1217,912968.3319,607933.4365,1096.863900,.SW
1218,912942.5576,607927.4709,1095.547500,.F
1219,912944.3551,607980.7690,1095.668600,.F
1220,912969.2602,607982.1892,1096.869300,.SW1
1221,912970.3345,608032.8060,1097.028200,.SW1
1222,912946.1358,608033.6731,1095.456000,.F
1223,912947.7639,608081.2044,1095.661700,.F
1224,912971.4086,608080.9335,1097.128000,.SW
1225,912972.5002,608132.6243,1097.234800,.SW FORM ONLY
1226,912949.5063,608133.9444,1095.809700,.F
1227,912950.3461,608164.8760,1095.711800,.F
1228,912936.0777,608199.6052,1097.073100,.F!
1229,912955.8946,608174.1078,1096.087400,TPD
1230,912959.1284,608189.5800,1096.591200,PP N
1231,912973.5840,608183.0190,1097.356600,.SW FORM ONLY
1232,912974.7272,608233.2739,1097.420300,.SW! END FORM
1233,912954.3106,608233.5480,1096.560600,NG
1234,912974.3971,607982.5649,1096.852700,.SW1
1235,912975.3745,608032.3031,1096.920300,.SW1
1236,912984.4539,608031.99400100,1096.406400,.TCB
1237,912985.0420,608032.0297,1095.916100,.G
1238,912986.1145,608081.6865,1096.139800,.G
1239,912985.5281,608081.9493,1096.609200,.TCB
1240,912976.4826,608082.51580100,1097.042700,.SW1
1241,912977.52470200,608131.3959,1097.125200,.SW1 FORM ONLY
1242,912986.56390200,608131.85550100,1096.770200,.TCB
1243,912987.1765,608132.2359,1096.272700,.G
1244,912988.2719,608181.8981,1096.474000,.G
1245,912987.6977,608181.9934,1096.950300,.TCB
1246,912978.6254,608182.6920,1097.242300,.SW1 FORM ONLY
1247,912986.5217,608215.4247,1096.433600,SSP NO PARK
1248,912979.6537,608231.57460100,1097.317800,.SW1! END FORM
1249,912988.6964,608231.6113,1097.090700,.TCB
1250,912989.34330200,608231.78690100,1096.628500,.G
1251,912990.2936,608274.3791,1096.764600,.G
1252,912990.3859,608279.8164,1096.838600,.G
1253,912990.8977,608303.3567,1096.886600,.G
1254,912991.0265,608308.7446,1096.889200,.G
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1255,912989.6694,608274.5817,1097.249900,.TCB.SW
1256,912984.7136,608274.9465,1097.414300,.SW
1257,912985.3990,608308.6809,1097.537600,.SW
1258,912989.7958,608279.7996,1096.948000,.TCB
1259,912990.2833,608303.3895,1096.964000,.TCB
1260,912990.3626,608308.5608,1097.359300,.TCB.SW!
1261,912965.03560200,608292.7999,1096.979500,P
1262,912938.1707,608283.8802,1096.655100,.F 6'C/L
1263,912951.8077,608319.7262,1096.488500,.F 6'C/L
1264,912990.9040,608331.9516,1097.438900,.TCB
1265,912991.5551,608332.0743,1096.962800,.G
1266,912970.9151,608338.7532,1097.478300,NG
1267,912966.75400200,608383.5141,1098.143500,NG
1268,912976.3232,608382.8048,1097.182900,NG
1269,912992.05280200,608382.3411,1097.572700,.TCB
1270,912992.6149,608382.32720100,1097.087400,.G
1271,912993.6894,608431.2679,1097.357200,.G
1272,912993.0895,608431.3449,1097.790100,.TCB
1273,912975.8599,608432.0545,1097.387100,NG
1274,912955.1452,608441.0248,1097.849300,.F
1275,912994.7493,608481.77690100,1097.393600,.G
1276,912994.1733,608481.9074,1097.895600,.TCB
1277,913064.4624,608551.77100100,1097.475600,40D
1278,913059.7984,607910.5765,1096.288400,CP 451
1279,912995.8338,608531.3084,1097.510300,.G
1280,912995.2143,608531.2918,1098.004700,.TCB
1281,912991.0562,608533.53690100,1097.829100,ICV
1282,912991.1337,608534.9018,1097.829200,ICV
1283,912991.2824,608536.3311,1097.814700,ICV
1284,912991.3800,608537.6242,1097.850900,ICV
1285,912990.9895,608540.8306,1097.933700,BFP
1286,912992.0926,608541.81480100,1097.560300,SSP PED
1287,912991.7803,608544.6588,1098.35,WM
1288,912957.3132,608541.2861,1097.897700,.F
1289,912940.0468,608541.3176,1097.749500,.F!
1290,912953.7025,608561.3911,1097.689300,.W 6'
1291,912967.0987,608561.3511,1097.66,.W.SW
1292,912971.3648,608558.6441,1097.718000,.TCB1
1293,912972.9177,608558.5875,1097.439600,.G1
1294,912989.1660,608559.2093,1097.697100,.G2
1295,912989.7459,608559.0825,1098.149500,.TCB2
1296,912996.9784,608581.5468,1097.779300,.G
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1298,912990.1331,608582.9612,1098.215300,.TCB2
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1301,912973.3369,608583.66300100,1097.414300,.G1
1302,912971.6805,608583.3567,1097.716700,.TCB1
1303,912967.7897,608583.19240100,1097.776100,.SW.W
1304,912968.73440200,608633.21810100,1097.822000,.SW.W END6'BEG2'
1305,912972.64840200,608632.3530,1097.638900,.TCB1
1306,912974.2297,608632.29910100,1097.336000,.G1
1307,912990.5776,608632.0188,1097.850800,.G2
1308,912991.1794,608631.99510100,1098.346000,.TCB2
1309,912997.5013,608631.90320100,1098.341400,.TCB
1310,912998.1033,608632.0410,1097.855400,.G
1311,912998.6157,608657.1253,1097.852400,.G

1312,912998.0359,608657.1415,1098.347600,.TCB
1313,912997.5388,608658.6753,1098.305000,.TCB-
1314,912997.9085,608659.0305,1097.846400,.G-
1315,912995.8024,608659.7422,1097.827900,.G!
1316,912995.82500200,608659.2114,1098.279200,.TCB!
1317,912993.9869,608656.74880100,1098.275600,ICV
1318,912991.6134,608657.1860,1098.399400,.TCB2!
1319,912991.0019,608657.2269,1097.908900,.G2!
1320,912978.4070,608647.1500,1097.609900,WV
1321,912974.3969,608642.9085,1097.374400,.G1
1322,912973.6480,608647.8048,1097.359800,.G1
1323,912973.0727,608647.8238,1097.711800,.TCB1
1324,912969.3837,608648.5804,1097.708800,.SW.W
1325,912963.2610,608657.2826,1097.698700,.W-
1326,912953.2040,608661.1683,1097.545500,.W!
1327,912965.0562,608659.3816,1097.691300,.SW-
1328,912954.4568,608663.4861,1097.597300,.SW!
1329,912972.7286,608655.1945,1097.438300,.G1-
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1332,912960.3779,608666.9527,1097.306100,.G1-
1333,912954.28930200,608668.0388,1097.242600,.G1!
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1336,912965.6816,608663.8271,1097.420400,.TCB1-
1337,912960.22570200,608666.4488,1097.637600,.TCB1-
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1340,912982.2871,608681.8436,1097.721100,P
1341,912998.9908,608681.3363,1098.058600,P
1342,912955.2104,608699.71680100,1097.216500,.G
1343,912965.0880,608657.2351,1097.552400,LP
1344,912955.2421,608700.23050100,1097.492200,.TCB
1345,912955.3228,608704.2161,1097.622600,.SW
1346,912966.9763,608708.8474,1097.733100,.SW-
1347,912971.0207,608719.2709,1098.073200,.SW
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1350,912971.8239,608707.6893,1097.471400,.G-
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1352,912975.4011,608719.05630100,1097.702900,.G
1353,912976.1259,608722.5547,1097.700900,.G
1354,912962.3748,608701.4575,1097.603500,.TCB-
1355,912967.7053,608704.2526,1097.420400,.TCB-
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1358,912974.9130,608719.0530,1098.015500,.TCB
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1367,912999.7208,608730.2400,1098.420600,.TCB2
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1373,912974.95240200,608731.6721,1097.977200,.TCB
1374,912971.1156,608732.3699,1098.087300,.SW
1375,912998.1353,608750.6756,1097.871400,SSP ADOPTASTREET
1376,912971.0087,608771.04780100,1098.060700,TVPD
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1379,912984.8162,608781.3805,1097.911900,P
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1383,913001.6163,608781.6304,1097.968200,.G2
1384,913002.5459,608829.4671,1097.979600,.G2
1385,913001.8678,608829.5899,1098.545800,.TCB2
1386,912995.5866,608830.0292,1098.689400,.TCB1
1387,912994.9550,608830.0917,1098.175500,.G1
1388,912985.4752,608830.4950,1097.996200,P
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1390,912977.1470,608831.1555,1098.026200,.TCB
1391,912973.3421,608831.4274,1098.155500,.SW
1392,912974.3535,608881.2812,1098.173600,.SW
1393,912978.3436,608881.9290,1098.074000,.TCB
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1395,912987.9140,608882.2441,1098.138400,P
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1402,912997.7749,608930.1928,1098.737200,.TCB1
1403,912997.1827,608930.1182,1098.346100,.G1
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1406,912979.4588,608930.9353,1098.144500,.TCB
1407,912975.5744,608931.2463,1098.221000,.SW
1408,912976.6529,608977.9751,1098.392400,.SW!
1409,912980.45370200,608974.1147,1098.261300,.TCB!
1410,912981.9959,608974.0601,1097.989800,.G!
1411,912989.24530200,608981.2742,1098.309000,P
1412,912998.3340,608980.45110100,1098.411600,.G1!
1413,912998.85200200,608980.2637,1098.894700,.TCB1!
1414,913005.2535,608979.8434,1098.849500,.TCB2
1415,913005.8526,608979.9470,1098.283800,.G2!
1416,913038.0135,608978.7809,1099.046800,P
1417,913036.9451,608928.9972,1098.906500,P
1418,913035.8216,608879.1422,1098.766300,P
1419,913033.9862,608829.3054,1098.694400,P
1420,913055.1335,608858.58570100,1098.392600,SSMH
1421,913054.23290200,608810.8578,1098.256200,SSMH
1422,913052.6204,608788.0359,1098.322800,SSMH
1423,913033.5860,608805.78690100,1098.684900,BCF
1424,913032.1757,608779.50230100,1098.610500,P
1425,913031.8145,608729.51120100,1098.515300,P

1426,913030.5616,608679.6291,1098.334200,P
1427,913008.5023,608671.0829,1098.223700,GV
1428,913008.2165,608666.1902,1098.192700,GV
1429,913029.6561,608629.9270,1098.412600,P
1430,913028.3847,608580.1048,1098.284900,P
1431,913049.9865,608627.9579,1097.900300,SSMH
1432,913077.2721,608509.4543,1097.844300,.SW
1433,913077.8101,608534.8816,1097.864000,.SW
1434,913071.9410,608534.9495,1097.838200,.SW1.TCB
1435,913071.7973,608534.4185,1097.83,.G
1436,913064.1477,608538.2531,1097.457100,.G-
1437,913064.6210,608538.5782,1097.753600,.TCB-
1438,913061.5934,608535.3796,1097.147400,VG
1439,913061.9623,608547.5296,1097.091300,.G
1440,913062.5768,608547.4298,1097.583000,.TCB
1441,913063.2837,608579.4455,1097.700400,.TCB
1442,913062.6538,608579.4887,1097.202900,.G
1443,913068.39840200,608578.1244,1097.493800,PP EW LAMP
1444,913072.9244,608580.8236,1097.909000,.SW1
1445,913078.7644,608580.6735,1098.016700,.SW
1446,913097.8781,608580.3864,1098.371200,NG
1447,913084.2406,608588.49880100,1098.285000,.W 3'
1448,913084.7069,608612.3142,1098.143400,.W!
1449,913092.0820,608631.17020100,1098.561500,NG
1450,913079.8132,608630.7638,1098.093700,.SW
1451,913073.9998,608630.6473,1097.986500,.SW1
1452,913064.3750,608630.2919,1097.779200,.TCB
1453,913063.7434,608630.2498,1097.292200,.G
1454,913064.53450200,608665.8421,1097.408900,.G
1455,913065.1766,608665.9347,1097.862400,.TCB
1456,913065.1395,608676.43150100,1097.441400,VG
1457,913067.1178,608672.3856,1097.641400,.G-
1458,913067.4302,608672.0052,1098.021100,.TCB-
1459,913074.9701,608675.8194,1098.148100,.TCB!.SW1!
1460,913074.8458,608676.29040100,1098.149300,.G!
1461,913082.3430,608667.4567,1098.458900,WM
1462,913090.0645,608661.2834,1098.467300,GV
1463,913085.8418,608672.6075,1099.125400,.TCB1
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1465,913092.0275,608673.0170,1098.708400,.EP!
1466,913091.9295,608672.4773,1099.160700,.TCB1!
1467,913093.0924,608689.3803,1098.358300,P
1468,913081.4079,608705.9449,1098.261600,.SW
1469,913083.2891,608707.1549,1098.569000,MB
1470,913075.5510,608706.4616,1098.208900,.TCB.SW1
1471,913075.5164,608705.9789,1098.177800,.G
1472,913065.0844,608706.2764,1097.518400,VG
1473,913068.5266,608709.0054,1097.726100,.G-
1474,913068.9054,608709.4542,1098.077600,.TCB-
1475,913066.2297,608715.9404,1098.007700,.TCB
1476,913065.6089,608715.9497,1097.522200,.G
1477,913065.9314,608728.9306,1097.54,.G
1478,913066.4890,608728.8613,1098.021000,.TCB
1479,913076.0876,608728.8694,1098.245100,.SW1
1480,913081.5723,608729.64230100,1098.308500,.SW
1481,913092.5248,608739.8506,1098.781100,TRPV 8"
1482,913085.71720200,608765.5525,1098.642900,TPD

1483,913076.7537,608762.9751,1098.312700,.SW1
1484,913073.6952,608771.7959,1098.278700,.SW1
1485,913066.6667,608764.1905,1097.655500,.G
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1487,913068.8913,608771.8501,1098.203800,.TCB-.SW1!
1488,913071.9011,608776.3268,1097.830100,.TCB-
1489,913074.6968,608779.0887,1097.83,.TCB-
1490,913079.3559,608781.9031,1098.299500,.TCB-
1491,913087.1899,608783.56000100,1098.270200,.TCB!
1492,913087.2505,608784.1784,1097.761900,.G!
1493,913087.1303,608779.0932,1098.261900,SSP STOP
1494,913072.8415,608770.4281,1098.254700,PP NEW LAMP
1495,913068.3164,608771.93520100,1097.766300,.G-
1496,913071.62030200,608776.7471,1097.753700,.G-
1497,913074.4934,608779.4841,1097.83,.G-
1498,913079.2726,608782.5252,1097.829900,.G-
1499,913087.2225,608784.12490100,1097.761900,.G!
1500,913068.8657,608784.0132,1097.694700,VG
1501,913069.5498,608828.5892,1097.814700,VG
1502,913077.4245,608818.64840100,1097.880300,WV
1503,913089.5283,608808.0480,1098.091000,P
1504,913088.8227,608827.2821,1098.002500,.G
1505,913088.8221,608827.8858,1098.486600,.TCB
1506,913089.0729,608831.9704,1098.537100,.SW
1507,913097.78580200,608836.6276,1099.120900,.W 5'
1508,913089.6923,608858.2789,1099.661000,.W 5'
1509,913078.05040200,608836.9569,1098.395300,.SW-
1510,913079.4435,608830.3829,1098.396200,.TCB-
1511,913076.3530,608832.53430100,1098.005100,.TCB-
1512,913073.5166,608835.4855,1097.993000,.TCB-
1513,913071.2383,608838.6866,1098.328700,.TCB-
1514,913069.0222,608848.4126,1098.302100,.TCB
1515,913074.0090,608848.2099,1098.345100,.SW
1516,913074.6631,608848.82240100,1098.360600,PP EW
1517,913079.1702,608829.8253,1097.909100,.G-
1518,913076.1761,608831.8892,1097.882400,.G-
1519,913073.0250,608835.1626,1097.882900,.G-
1520,913070.7179,608838.4367,1097.841700,.G-
1521,913068.4329,608848.44740100,1097.813000,.G
1522,913075.6186,608867.2812,1098.469600,SSP PED
1523,913069.15840200,608880.0614,1097.874000,.G
1524,913069.7455,608879.9371,1098.351400,.TCB
1525,913074.8276,608880.0608,1098.447300,.SW
1526,913085.4644,608880.7442,1099.008900,TRPN 10"
1527,913090.2665,608880.8609,1099.326200,.W
1528,913085.5396,608903.3633,1099.396500,TRPN 12"
1529,913082.1321,608930.34440100,1099.184200,TROL 10"
1530,913091.9713,608931.1472,1099.521100,.W
1531,913075.9571,608929.17630100,1098.556800,.SW
1532,913070.9336,608928.7559,1098.446100,.TCB
1533,913070.3118,608928.7436,1097.970900,.G
1534,913087.0380,608958.3827,1099.403100,TROL 8"
1535,913077.0213,608972.1538,1098.577700,PP EW LAMP
1536,913071.4040,608977.8264,1098.050300,.G!
1537,913072.0230,608977.7773,1098.525400,.TCB!
1538,913077.1341,608978.0059,1098.629300,.SW!
1539,913093.0707,608978.4125,1099.771700,.W!

1540,913064.4624,608551.77100100,1097.84,.W!

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2001,918286.590592000000,602239.496038000000,1083.8365267000,.TCB
2002,918305.844505000000,602239.507645000000,1083.9322873800,.TCB
2003,918330.752951000000,602239.602216000000,1084.0300237800,.TCB
2004,918358.338120000000,602239.745293000000,1084.1156919700,.TCB
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2824,917897.268812000000,602272.573803000000,1083.5319025300,WV
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# PANEL DATA SHEET

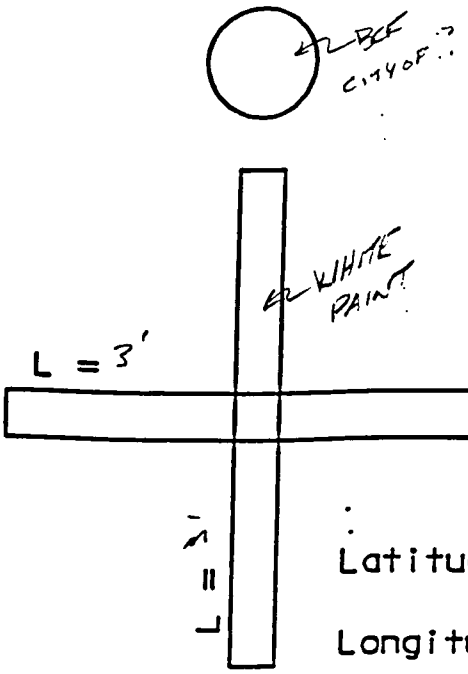
Panel Number: 326

USGS Quad: _____ Year Monumented: ?

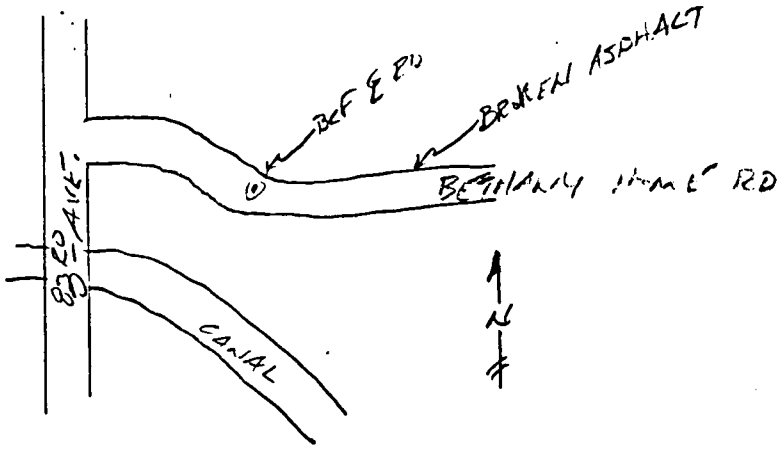
Described By: _____ Year Recovered: 01/27/97

State / County: MARICOPA

Stamped




Location Sketch




Latitude: 33°31'24" N

Longitude: 112°14'10" W

To Reach: _____

Entry Permit Required: Y___ N X

Monument Description: _____

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

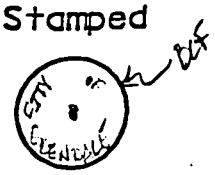
Panel Number: 325

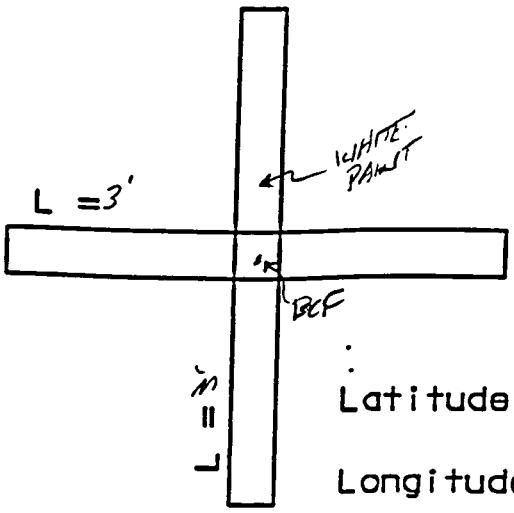
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 07/28/99

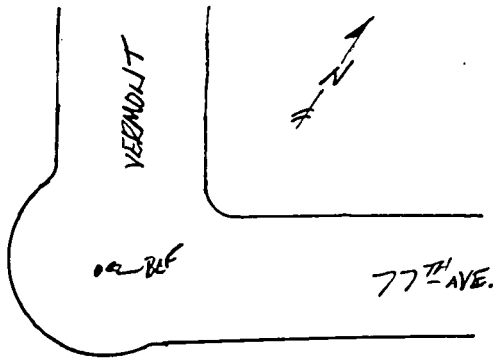
State / County: MARICOPA _____

Stamped




Location Sketch




Latitude: 33°30'52"N

Longitude: 112°13'32"W

To Reach: _____

Entry Permit Required: Y___ N X

Monument Description: CITY OF GLENDALE BRASS CAP - FLUSH @ INTER. OF 77TH AVE & VERMONT

_____ Signature _____ Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

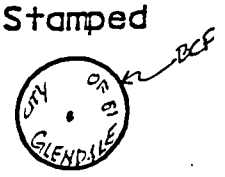
Panel Number: 322

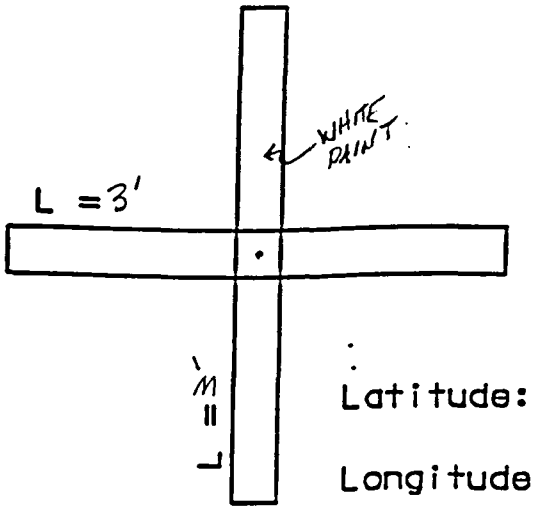
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 07/28/92

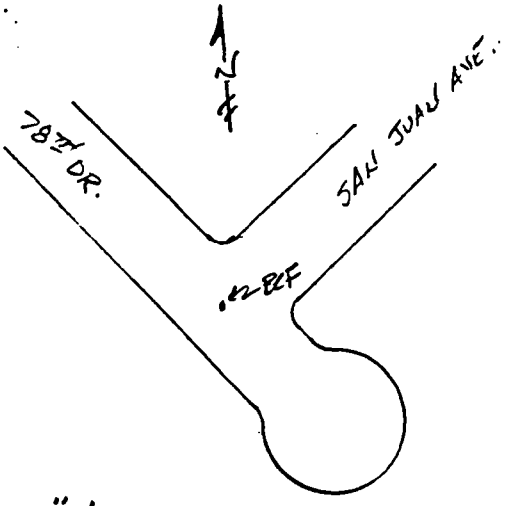
State / County: MARICOPA _____

Stamped




Location Sketch




Latitude: 33°31' 01" N

Longitude: 112°13' 40" W

To Reach: _____

Entry Permit Required: Y___ N X

Monument Description: CITY OF GLENDALE BRASS CAP - FLUSH @ INTER. OF 78TH DR. & SAN JUAN AVE.

_____
Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 323

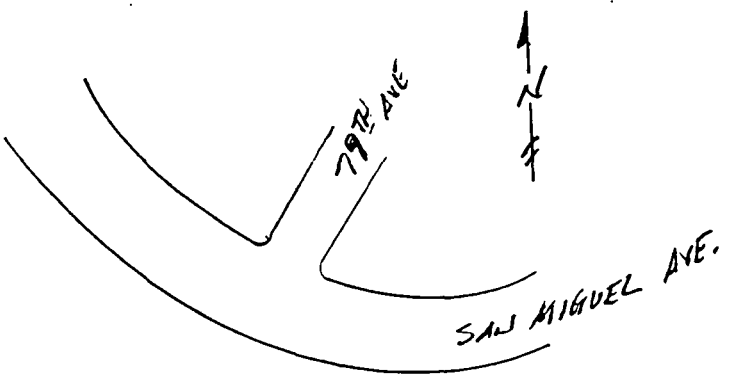
USGS Quad: _____ Year Monumented: _____

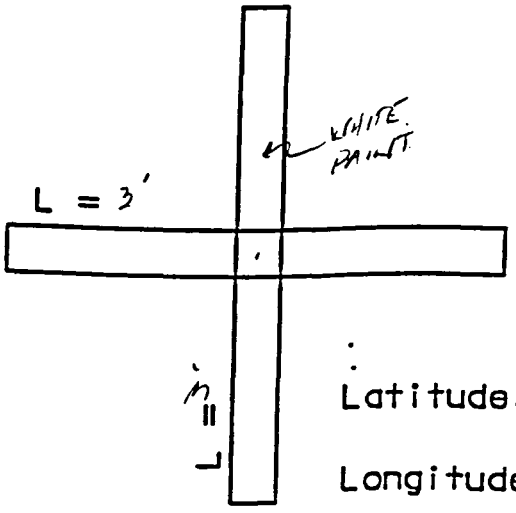
Described By: _____ Year Recovered: 07/28/99

State / County: MARICOPA _____

Stamped

Location Sketch




Latitude: 33°31'09" N

Longitude: 112°13'48" W

To Reach: _____

Entry Permit Required: Y___ N X

Monument Description: CITY OF GLENDALE BRASS CAP - FLUSH @ INTER. OF 79TH AVE & SAN MIGUEL AVE.

_____
Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

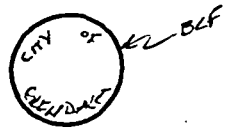
Panel Number: 329

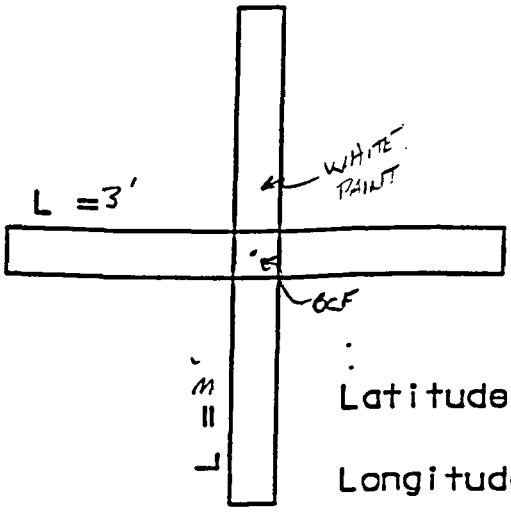
USGS Quad: _____ Year Monumented: ?

Described By: CAH Year Recovered: 07/28/99

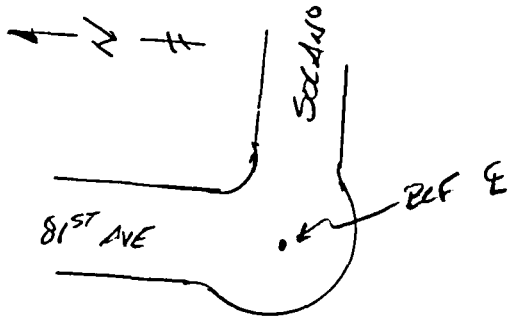
State / County: MARICOPA _____

Stamped




Location Sketch




Latitude: 33°31'18"N

Longitude: 112°13'58"W

To Reach: _____

Entry Permit Required: Y___ N X

Monument Description: CITY OF GLENDALE BRASS CAP FLUSH @ ℄ INTER. OF 81ST AVE & SOLANO DR. NORTH.

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

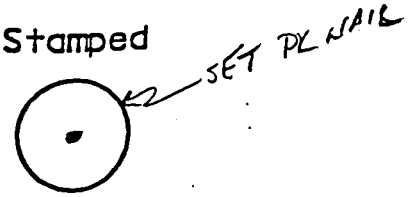
Panel Number: 358

USGS Quad: _____ Year Monumented: _____

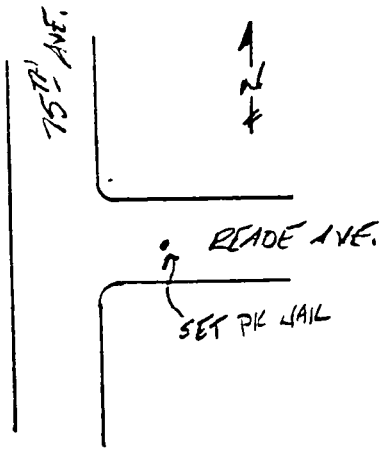
Described By: _____ Year Recovered: 07/22/99

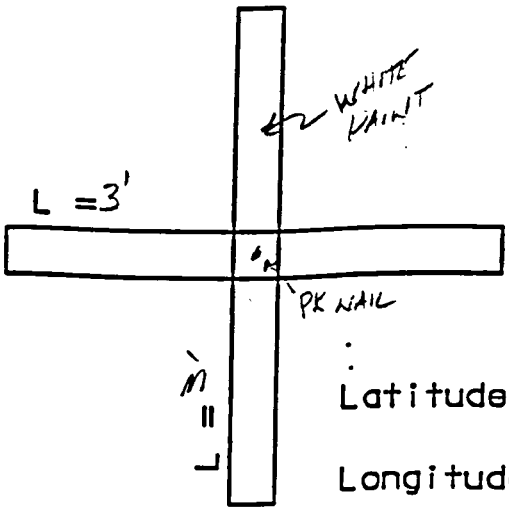
State / County: MARICOPA _____

Stamped




Location Sketch




Latitude: 33°30'39"N

Longitude: 112°13'13"W

To Reach: _____

Entry Permit Required: Y___ N X

Monument Description: SET PK NAIL ON ℄ OF READE AVE. ABOUT 100 FT. EAST OF 75TH AVE. ℄

_____
Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 319

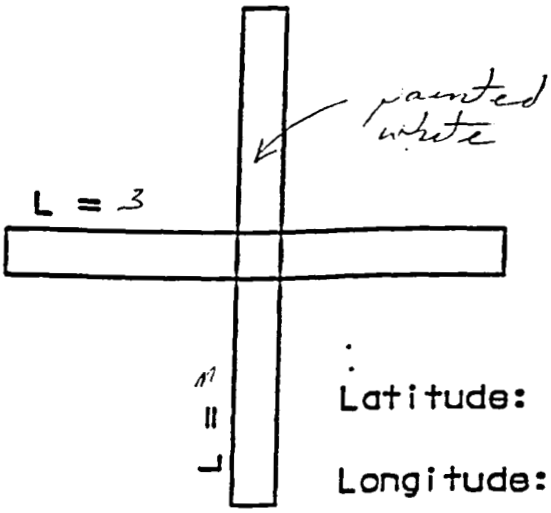
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 7-29-99

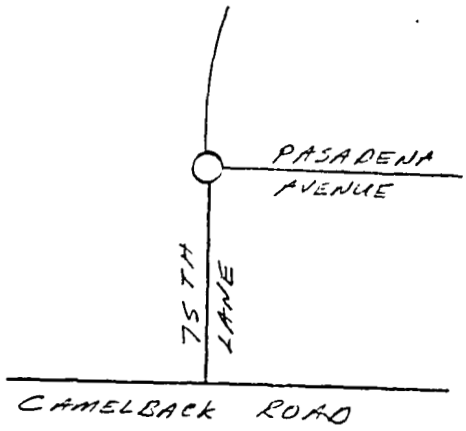
State / County: Arizona Maricopa

Stamped

C.O.G
19




Location Sketch




Latitude: 33° 30' 35" N

Longitude: 112° 13' 22" W

To Reach: Coming West on Camelback to 75TH Lane. Turn right (north) on 75TH Lane & go to Pasadena Ave.

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush, City of Glendale

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 359

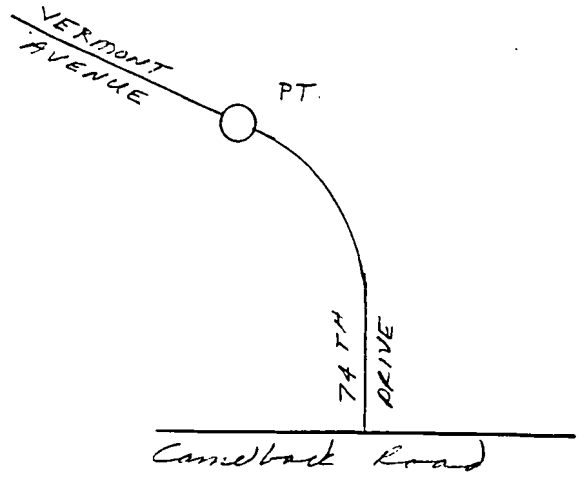
USGS Quad: _____ Year Monumented: _____

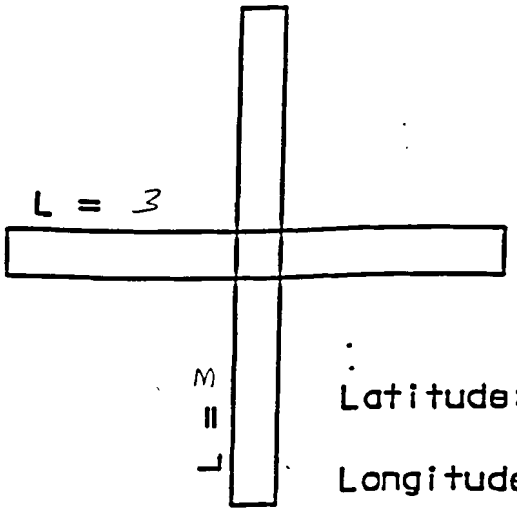
Described By: _____ Year Recovered: 7-29-99

State / County: Arizona Maricopa

Stamped

Location Sketch




Latitude: 33° 30' 51" N

Longitude: 112° 13' 36" W

To Reach: Go west on Camelback turn right (north) onto 74TH Drive, then go northerly to Vermont ave to the ℄ PT.

Entry Permit Required: Y ___ N ✓

Monument Description: Brass Cap Flush
Maricopa County Highway Dept.

Signature _____ Date _____

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: _____

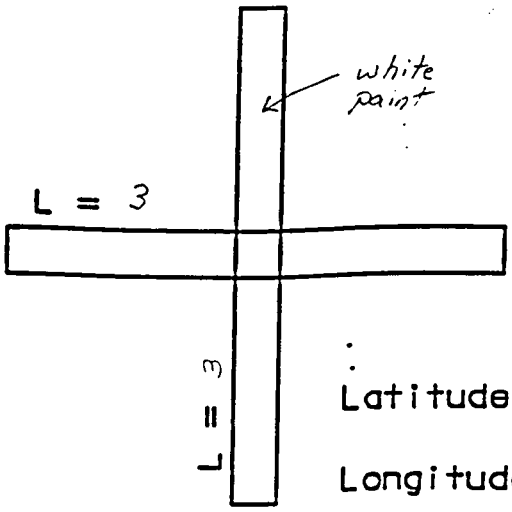
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 7-28-99

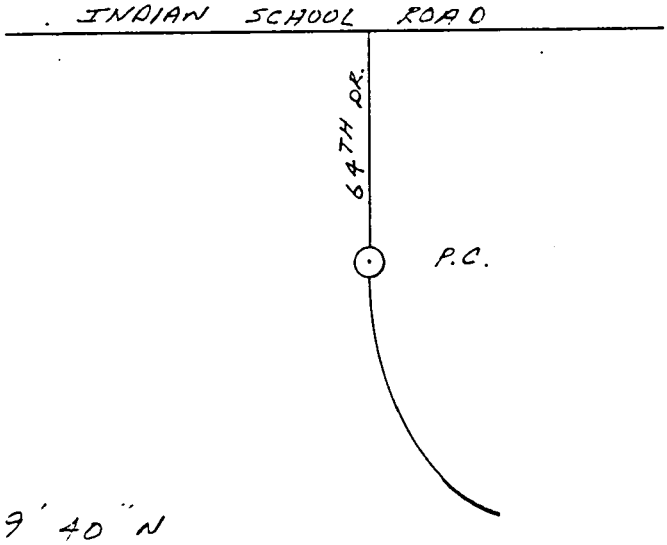
State / County: Maricopa / Arizona

Stamped

C.O.P.
19




Location Sketch




Latitude: 33° 29' 40" N

Longitude: 112° 11' 58" W

To Reach: From Indian School Road, drive east turn right (south) into 64 drive and go approximately 100 ± ft.

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush City of Phoenix

_____
Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 344

USGS Quad: _____ Year Monumented: _____

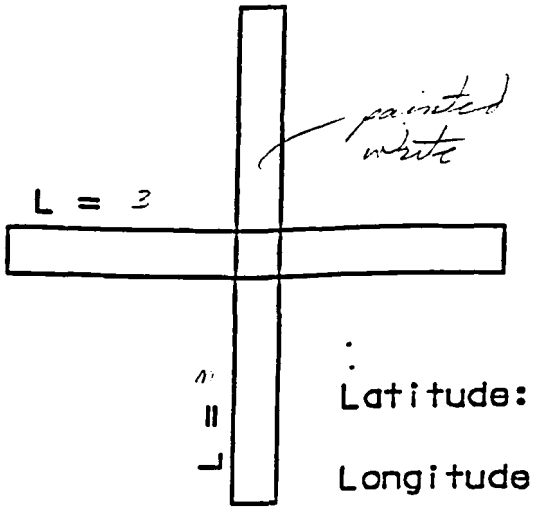
Described By: _____ Year Recovered: _____

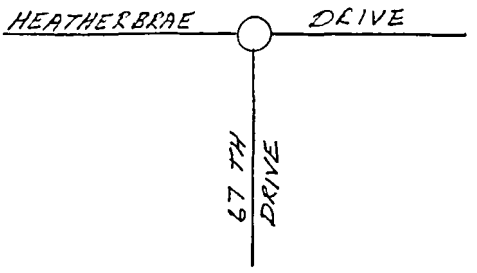
State / County: Arizona / Maricopa

Stamped

C 3 A
19

Location Sketch




Latitude: 33° 29' 54" N

Longitude: 112° 12' 14" W

To Reach: Going North on 67th Avenue to Heatherbrae Dr. Turn left (west) & go to 67th Drive

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush (City of Phoenix)

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

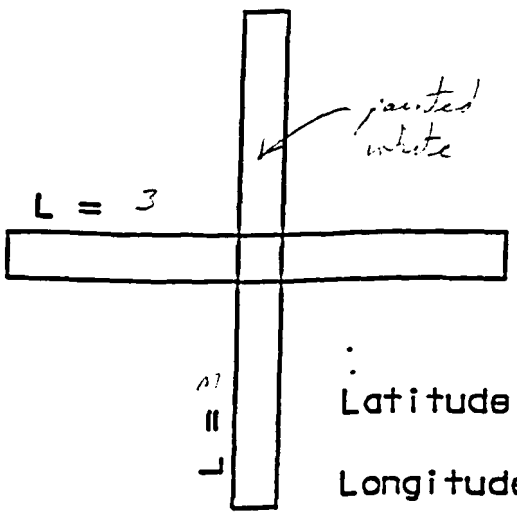
Panel Number: 343

USGS Quad: _____ Year Monumented: _____

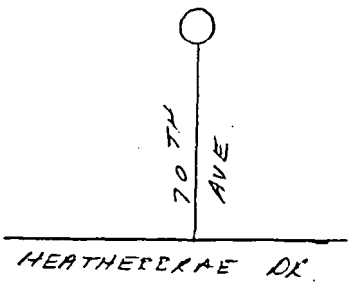
Described By: _____ Year Recovered: 7-29-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 02" N

Longitude: 112° 12' 33" W

To Reach: Go North on 67th avenue turn left (west) onto Heatherdrae Dr turn right (north) onto 70th avenue and go to end of cul de sac

Entry Permit Required: Y___ N ✓

Monument Description: brass cap flush with concrete

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 342

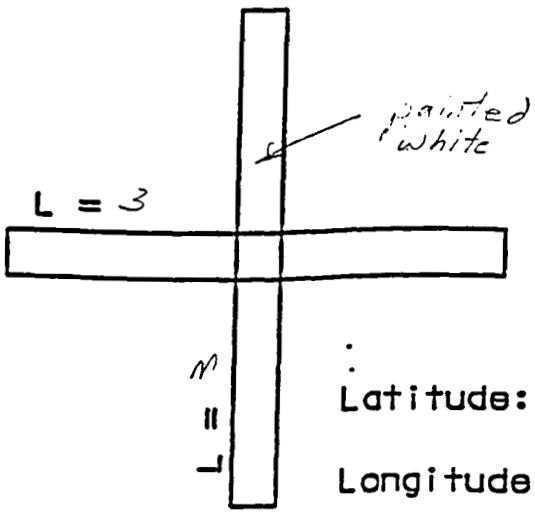
USGS Quad: _____ Year Monumented: _____

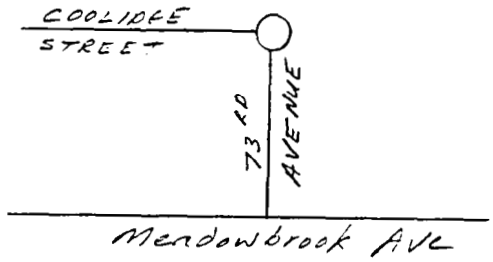
Described By: _____ Year Recovered: 7-29-99

State / County: Arizona Maricopa

Stamped

Location Sketch




To Reach: Coming south on 75th avenue, turn left (east) onto Meadowbrook Ave., going east Turn left (north) onto 73rd avenue, go north to Coolidge Street

Entry Permit Required: Y___ N ✓

Monument Description: Brass cap flush City of Phoenix

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

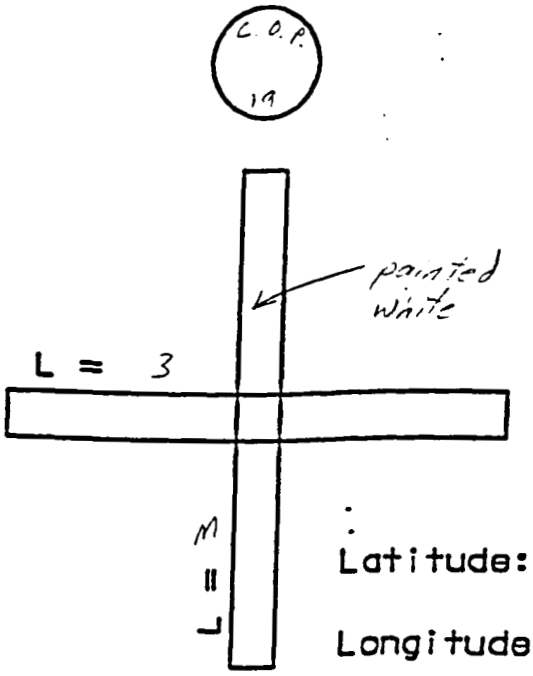
Panel Number: 338

USGS Quad: _____ Year Monumented: _____

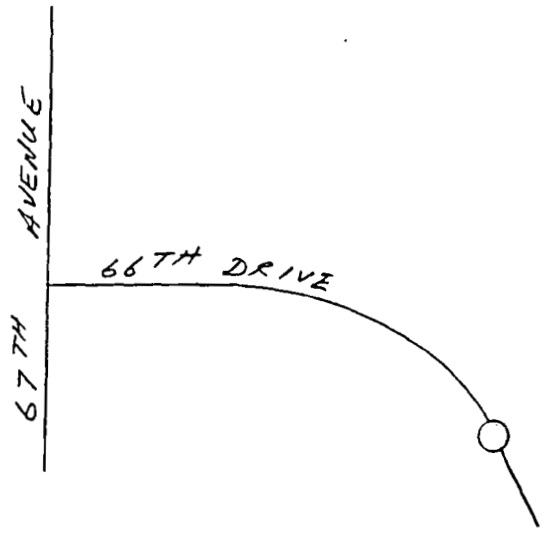
Described By: _____ Year Recovered: 7-29-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 29' 58"

Longitude: 112° 12' 08"

To Reach: Going North on 67TH avenue, turn left (east) onto 66TH Drive and go to the E P.C. monument

Entry Permit Required: Y___ N___

Monument Description: Brass Cap Flush, City of Phoenix

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

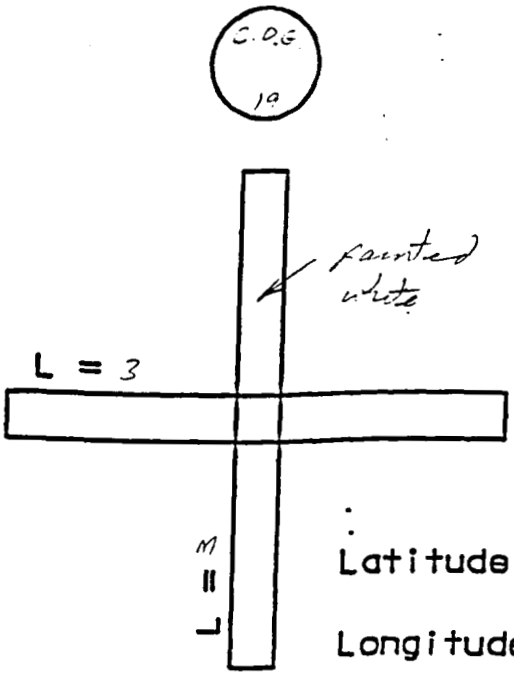
Panel Number: 317

USGS Quad: _____ Year Monumented: _____

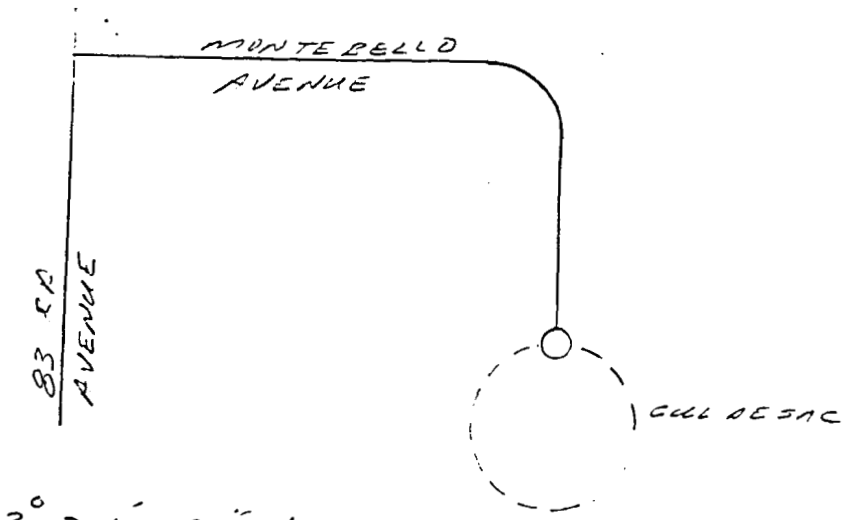
Described By: _____ Year Recovered: 7-29-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 31' 09" N

Longitude: 112° 13' 56" W

To Reach: Go North on 83rd Avenue turn right (east) onto Montebello Avenue, 1st go east, then South to cul de sac

Entry Permit Required: Y ___ N ✓

Monument Description: Brass Cap Flush, City of Glendale

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 347

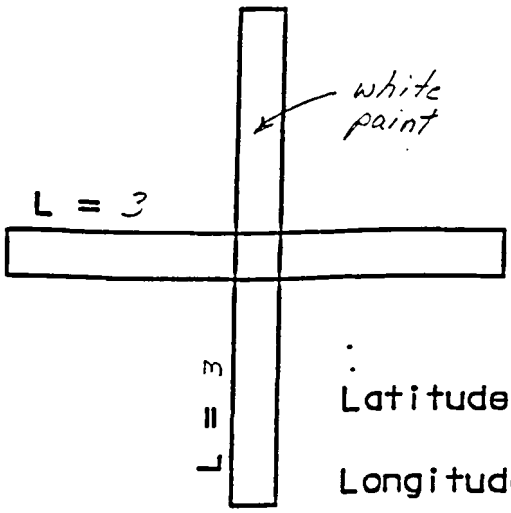
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 7-28-99

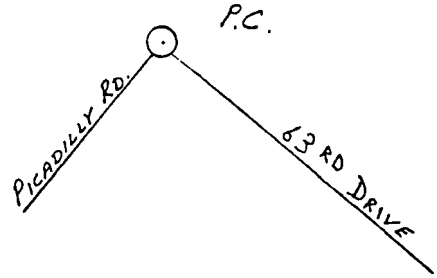
State / County: Arizona / Maricopa

Stamped

C. O. P.




Location Sketch




Latitude: 33° 29' 35" N

Longitude: 112° 11' 53" W

To Reach: From Indian School Road going east, turn right (south), onto 64th drive, go to the 2nd road to the left (easterly) on Picadilly Road until you reach 63rd Drive.

Entry Permit Required: Y ___ N ✓

Monument Description: Brass Cap Flush

City of Phoenix

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: _____

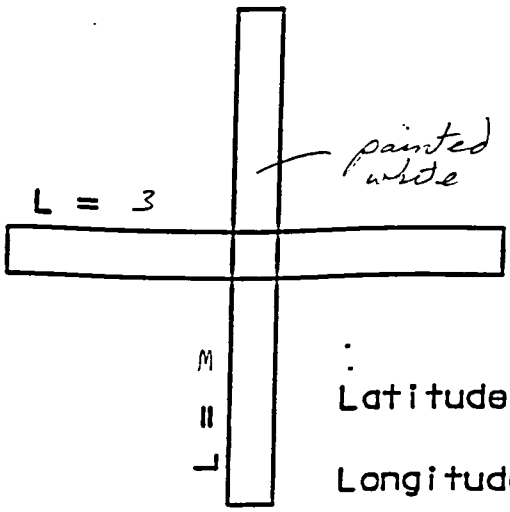
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 7-28-99

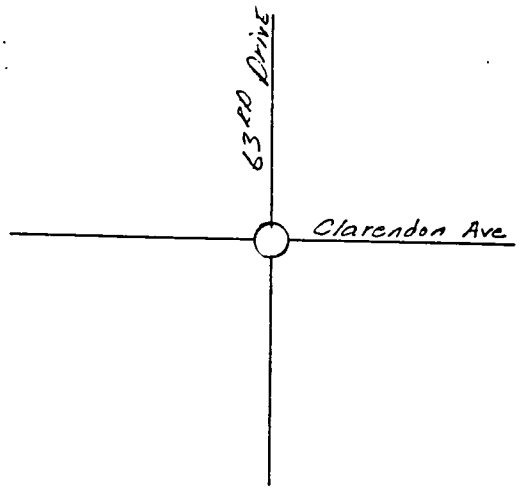
State / County: Arizona / Maricopa

Stamped

C.O.P.




Location Sketch




Latitude: 33° 29' 27" N

Longitude: 112° 11' 45" W

To Reach: From Indian School Road - drive east, turn right (south) into 64TH Drive to Clarendon Avenue, turn left (east) into Clarendon and go to 63RD Drive

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush
City of Phoenix

_____
Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

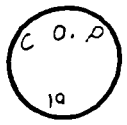
Panel Number: 335

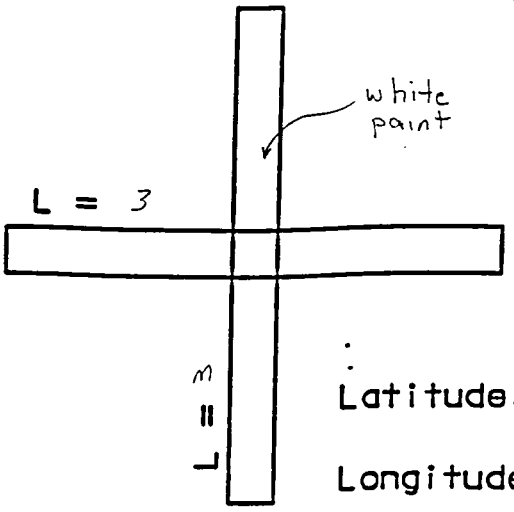
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 7-29-99

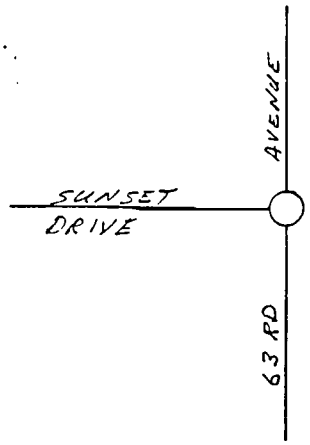
State / County: Arizona / Maricopa

Stamped




Location Sketch




Latitude: 33° 29' 31" N

Longitude: 112° 11' 42" W

To Reach: From Indian School Road going East turn right (south) onto 63rd Avenue and go to Sunset Drive

Entry Permit Required: Y ___ N ✓

Monument Description: City of Phoenix brass cap flush

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

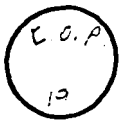
Panel Number: 337

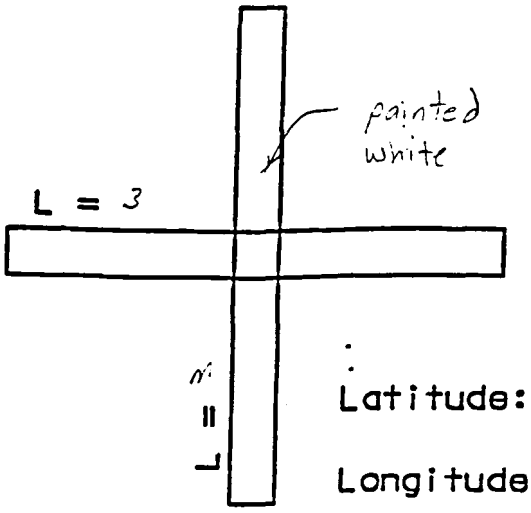
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 7-29-99

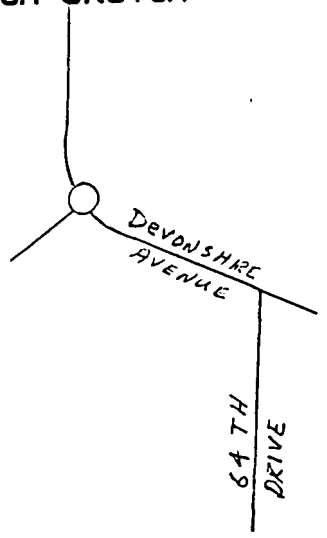
State / County: Arizona / Maricopa

Stamped




Location Sketch




Latitude: 33° 29' 42" N

Longitude: 112° 12' 02" W

To Reach: From Indian School Road, drive westerly to 64TH Drive. Turn left (south) onto 64TH and go to Devonshire Ave. turn left (westerly) and go to the first point on curve.

Entry Permit Required: Y___ N ✓

Monument Description: City of Phoenix, Brass Cap Flush

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 336

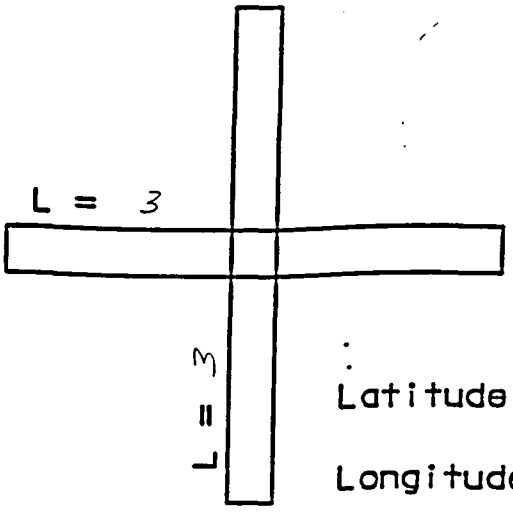
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 7-29-99

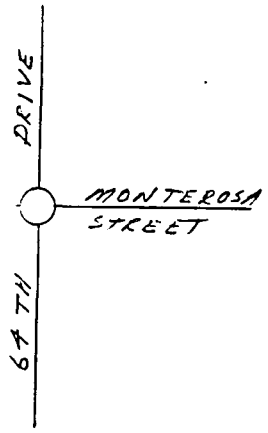
State / County: Arizona / Pima

Stamped

PK NAIL




Location Sketch




Latitude: 33° 29' 48" N

Longitude: 112° 11' 52" W

To Reach: Going Easterly on Sabino School Road, turn left on 64th drive (north) and go to Montezuma Street

Entry Permit Required: Y ___ N ✓

Monument Description: PK NAIL

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 341

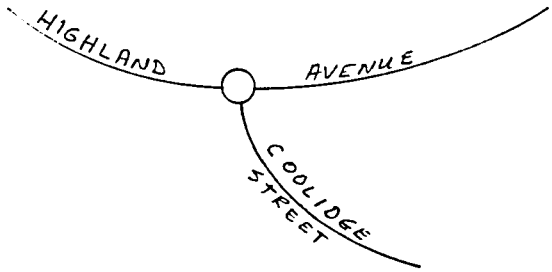
USGS Quad: _____ Year Monumented: _____

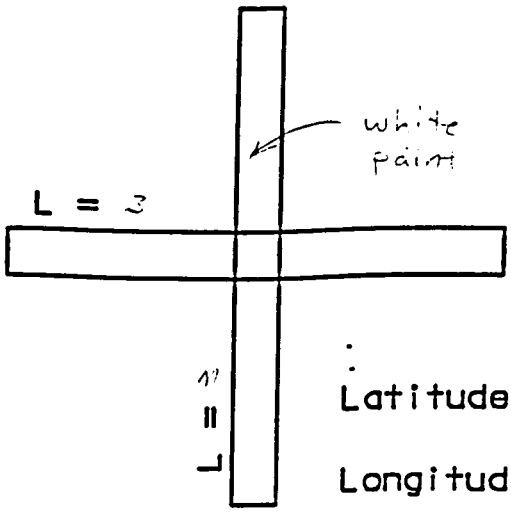
Described By: _____ Year Recovered: 7-29-99

State / County: Arizona Maricopa

Stamped

Location Sketch




Latitude: 33° 30' 20" N

Longitude: 112° 12' 53" W

To Reach: Going East on Camelback Road Turn Right (South) onto 32nd Avenue, and on Highland Ave & Coolidge St.

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush, City of Phoenix

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 339

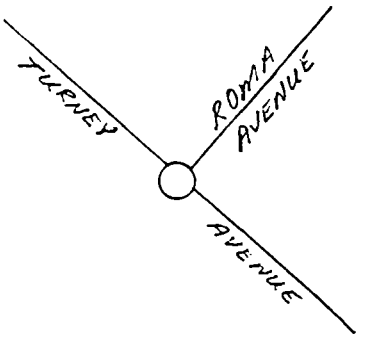
USGS Quad: _____ Year Monumented: _____

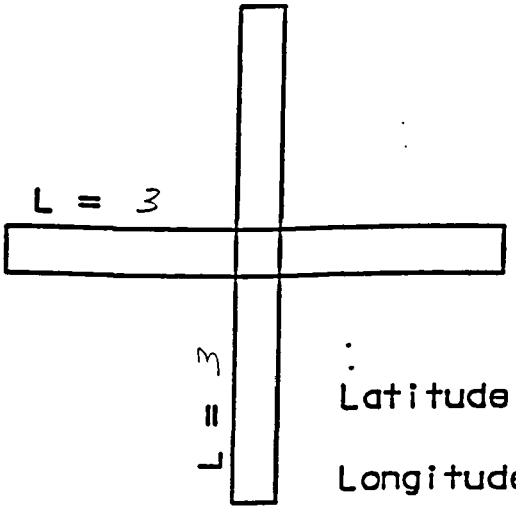
Described By: _____ Year Recovered: 7-29-99

State / County: Arizona Maricopa

Stamped

Location Sketch




Latitude: 33° 30' 04" N

Longitude: 112° 12' 22" W

To Reach: Going North on 67th avenue to Turney Ave, turn left (westerly) and go to Roma Ave.

Entry Permit Required: Y___ N ✓

Monument Description: Brass cap flush City of Phoenix

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 340

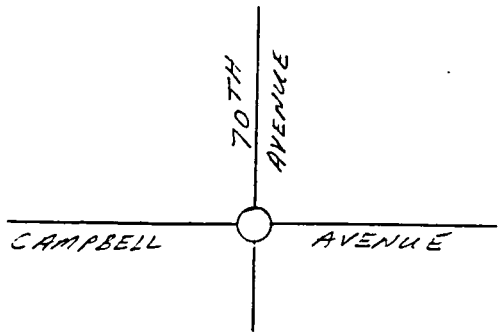
USGS Quad: _____ Year Monumented: _____

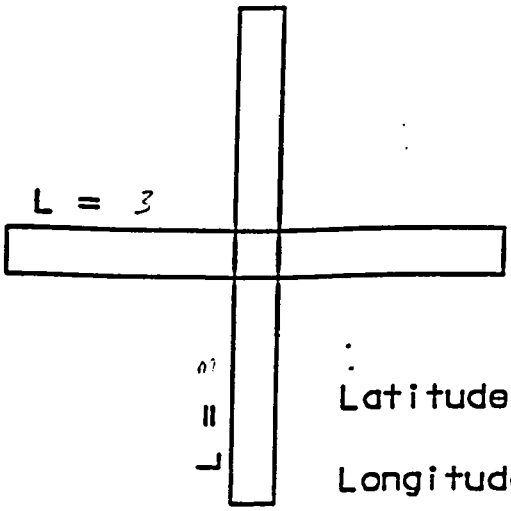
Described By: _____ Year Recovered: 7-29-99

State / County: Arizona Maricopa

Stamped

Location Sketch




Latitude: 33° 30' 09" N

Longitude: 112° 12' 34" W

To Reach: Going North on 67th Avenue to Campbell Ave. Turn Left (west) and go to 70th Avenue

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush, City of Phoenix

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

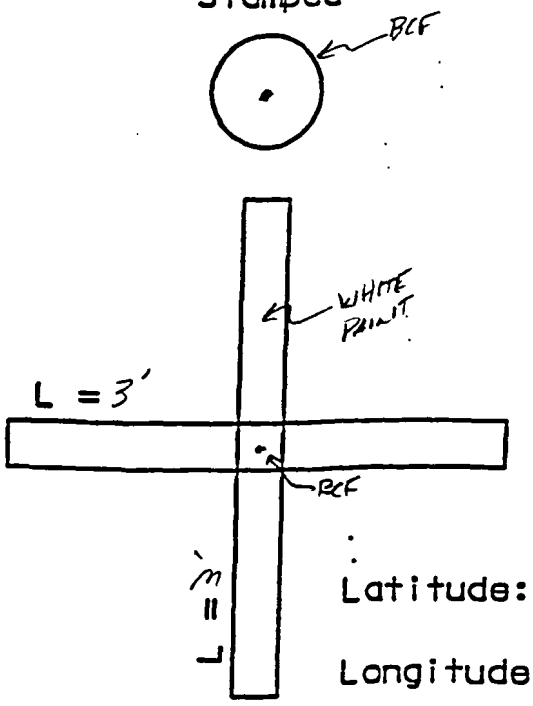
Panel Number: 327

USGS Quad: _____ Year Monumented: _____

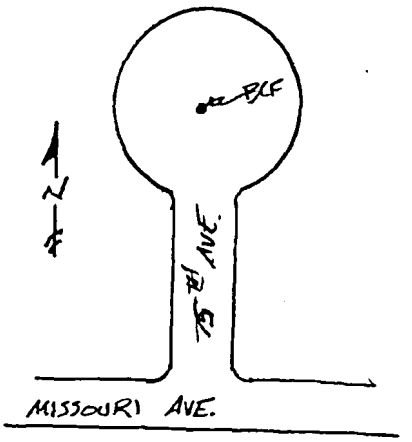
Described By: _____ Year Recovered: 07/30/97

State / County: MARICOPA _____

Stamped




Location Sketch




Latitude: 33°31'02"N

Longitude: 112°13'17"W

To Reach: _____

Entry Permit Required: Y___ N X

Monument Description: BRASS CAP - FLUSH CENTER OF CULDESAC @ 75TH AVE. N. OF MISSOURI

_____ Signature _____ Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

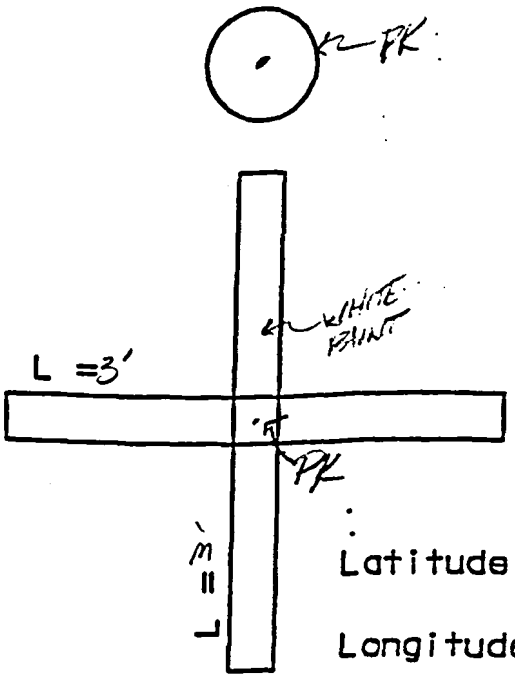
Panel Number: 379

USGS Quad: _____ Year Monumented: _____

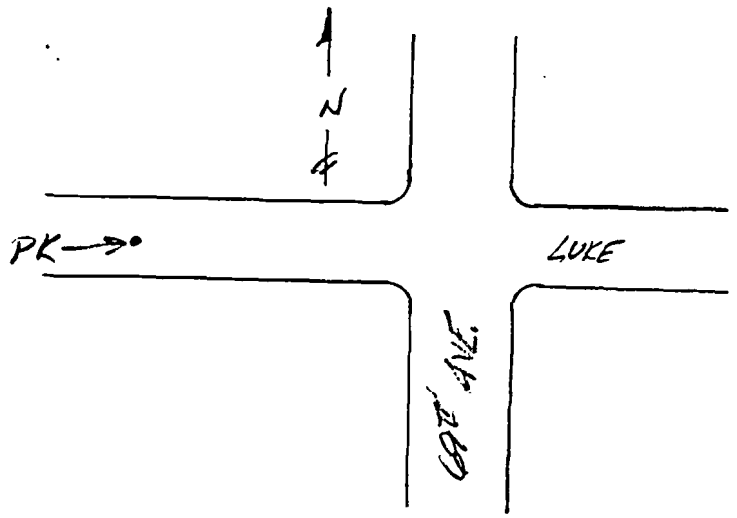
Described By: _____ Year Recovered: 07/30/99

State / County: MARICOPA

Stamped




Location Sketch




Latitude: 33°31'04" N

Longitude: 112°12'31" W

To Reach: _____

Entry Permit Required: Y ___ N X

Monument Description: SET PK NAIL ℄ of LUKE ABOUT 1000' WEST OF 69TH AVE.

_____ Signature _____ Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

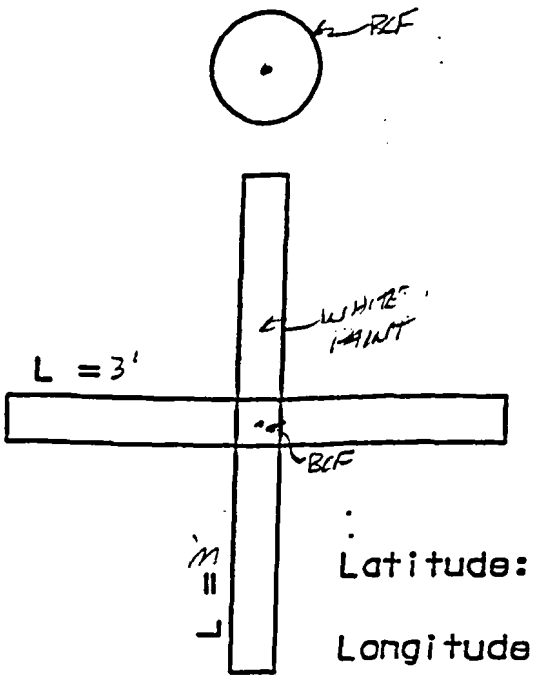
Panel Number: 378

USGS Quad: _____ Year Monumented: _____

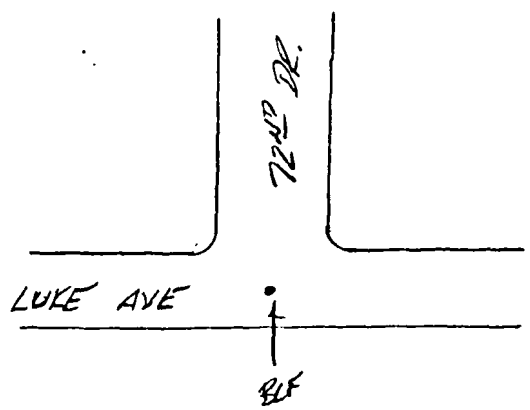
Described By: _____ Year Recovered: 07/30/99

State / County: MARICOPA _____

Stamped




Location Sketch




Latitude: 33°31'02"N

Longitude: 112°12'55"W

To Reach: _____

Entry Permit Required: Y___ N X

Monument Description: CITY OF GLENDALE BRASS CAP - FLUSH @ INTER. OF LUKE & 72ND DR.

_____ Signature _____ Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

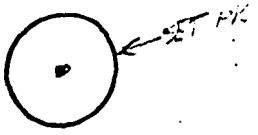
Panel Number: 344

USGS Quad: _____ Year Monumented: _____

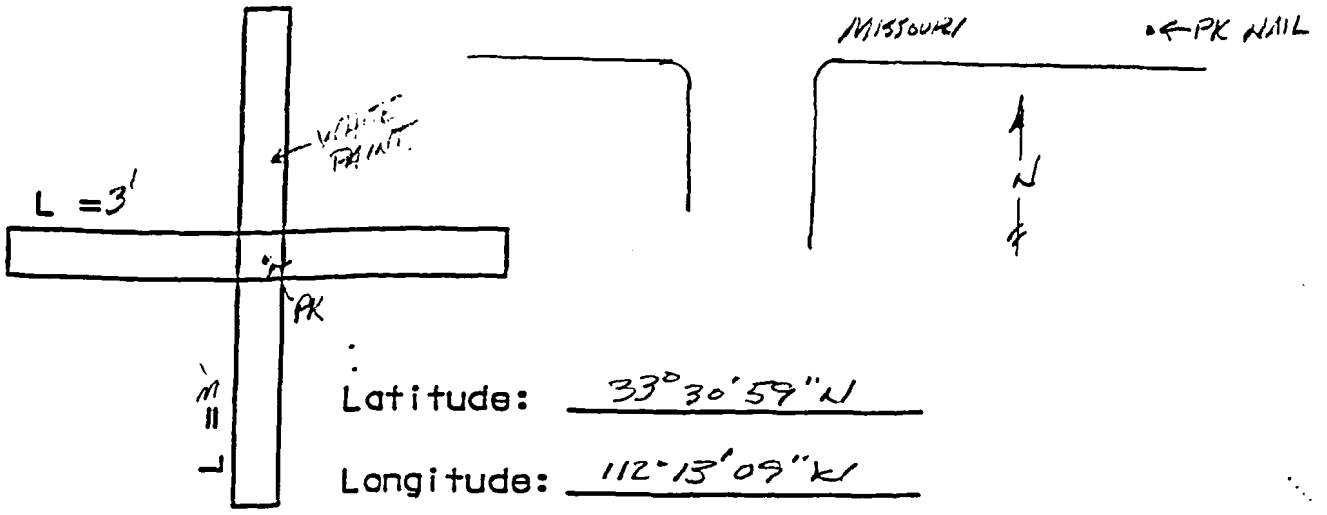
Described By: _____ Year Recovered: 07/30/99

State / County: MARICOPA _____

Stamped




Location Sketch




Latitude: 33°30'59"N

Longitude: 112°13'09"W

To Reach: _____

Entry Permit Required: Y___ N X

Monument Description: SET PK NAIL & OF MISSOURI @ ABOUT 1100' EAST OF 75TH AVE. INTER.

_____ Signature _____ Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

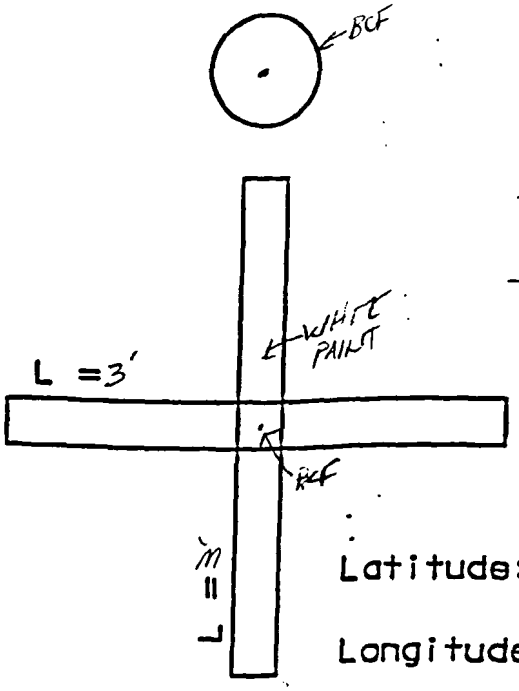
Panel Number: 367

USGS Quad: _____ Year Monumented: _____

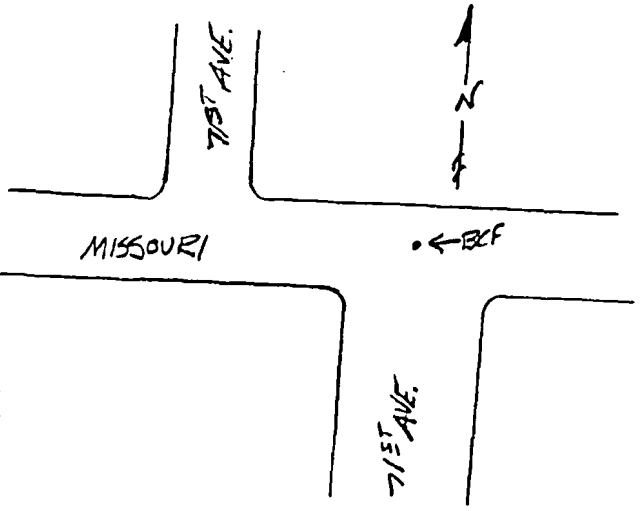
Described By: _____ Year Recovered: 07/30/99

State / County: MARICOPA _____

Stamped




Location Sketch




Latitude: 33° 30' 58" N

Longitude: 112° 12' 42" W

To Reach: _____

Entry Permit Required: Y ___ N X

Monument Description: CITY OF GLENDALE BRASS CAP - FLUSH @ INTER. OF MISSOURI & 71ST AVE.

_____ _____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

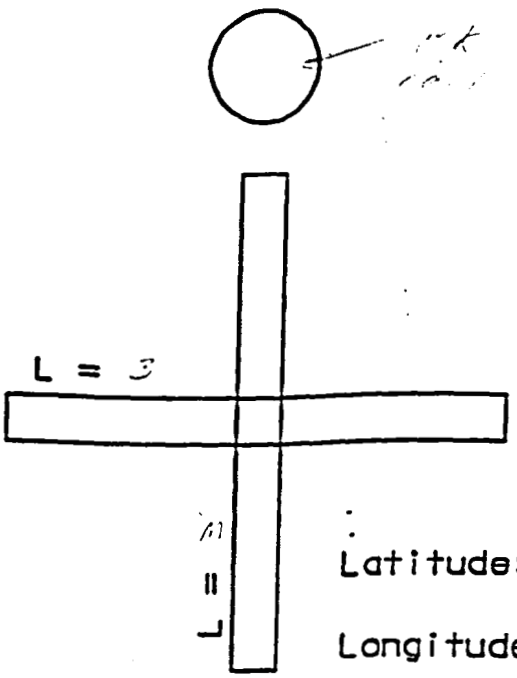
Panel Number: 582

USGS Quad: _____ Year Monumented: _____

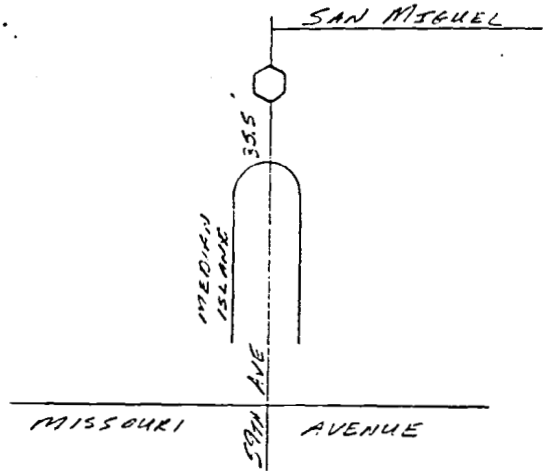
Described By: _____ Year Recovered: 7-30-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 31' 04" N

Longitude: 112° 11' 11" W

To Reach: From the intersection of Missouri Avenue & 59TH Avenue go north along 59TH Avenue to the end of the median island.

Entry Permit Required: Y___ N ✓

Monument Description: PK NAIL

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

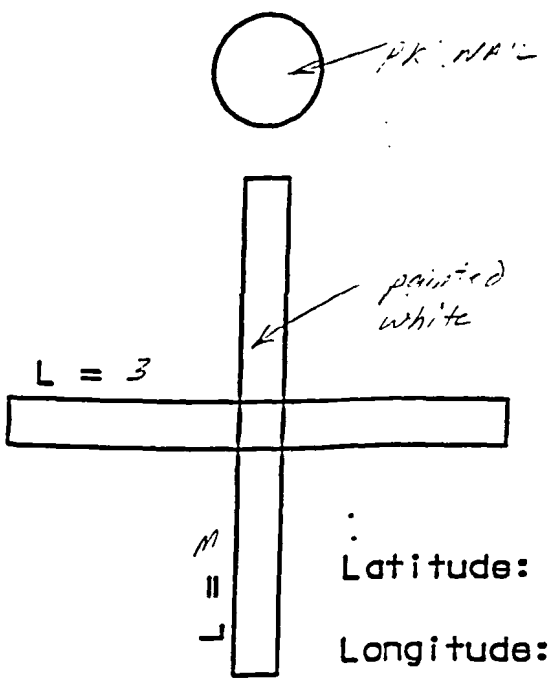
Panel Number: 372

USGS Quad: _____ Year Monumented: _____

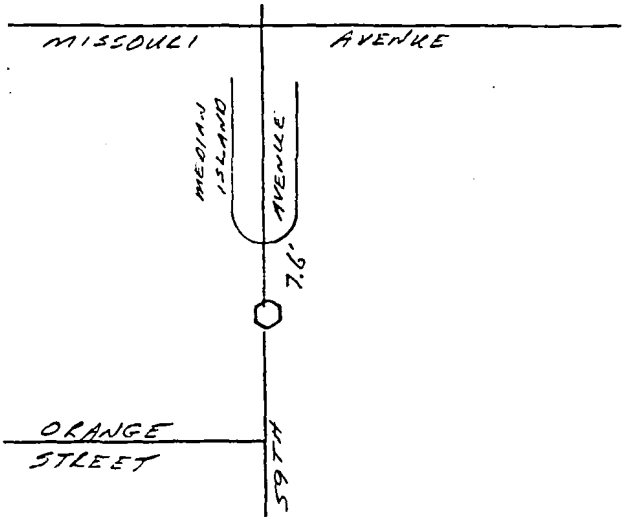
Described By: _____ Year Recovered: 7-30-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 54" N

Longitude: 112° 11' 10" W

To Reach: From the intersection of Missouri Avenue & 59TH Avenue, go south on 59TH Avenue to the end of the median island. Along the ℄ of 59TH Avenue & 7.6' south of the median island is the PK nail

Entry Permit Required: Y ___ N ✓

Monument Description: PK NAL

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

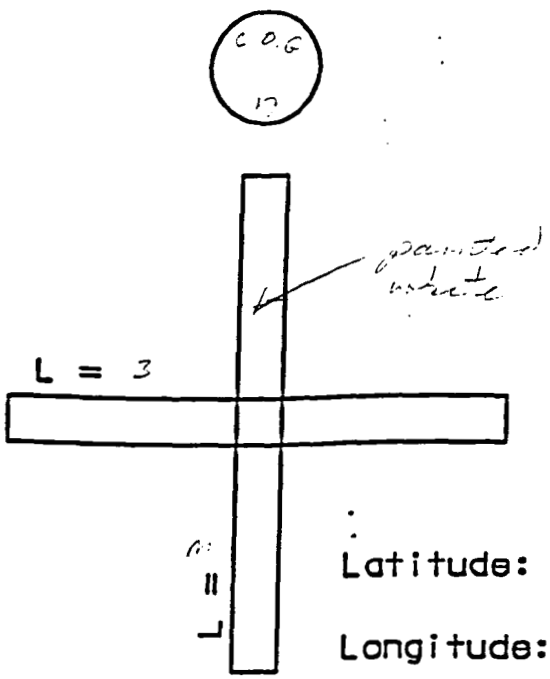
Panel Number: 375

USGS Quad: _____ Year Monumented: _____

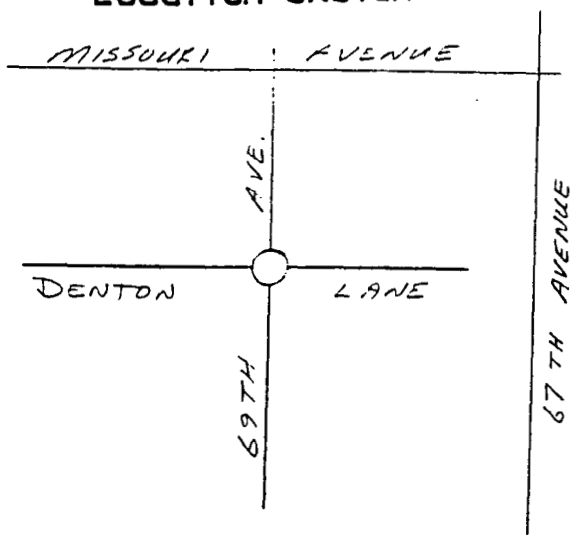
Described By: _____ Year Recovered: 7-30-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 56" N

Longitude: 112° 12' 26" W

To Reach: Go north on 67TH avenue turn left (west) onto Missouri avenue go west to 69TH avenue turn left (south) on 69TH avenue go south to Denton Lane

Entry Permit Required: Y ___ N ✓

Monument Description: Brass Cap Flush City of Glendale

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 376

USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 7-30-99

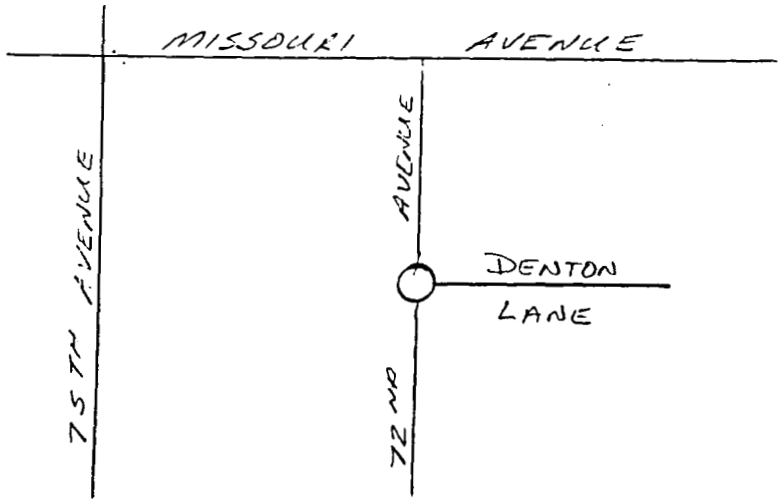
State / County: Arizona / Maricopa

Stamped

C.O.G.
10

L = 3

Location Sketch




Latitude: 33° 30' 57" N

Longitude: 112° 12' 52" W

To Reach: Go north on 75th avenue, Turn right (east) onto Missouri ave to 72nd ave, turn right (South) onto 72nd ave and go to Denton Lane

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush, City of Glendale

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

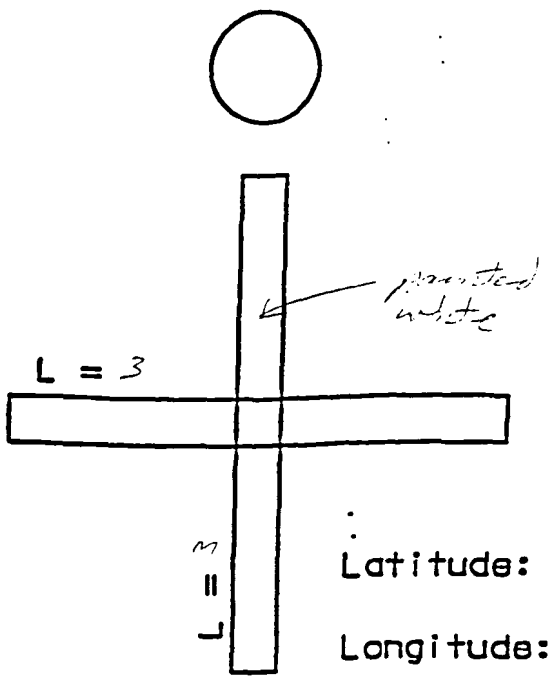
Panel Number: 377

USGS Quad: _____ Year Monumented: _____

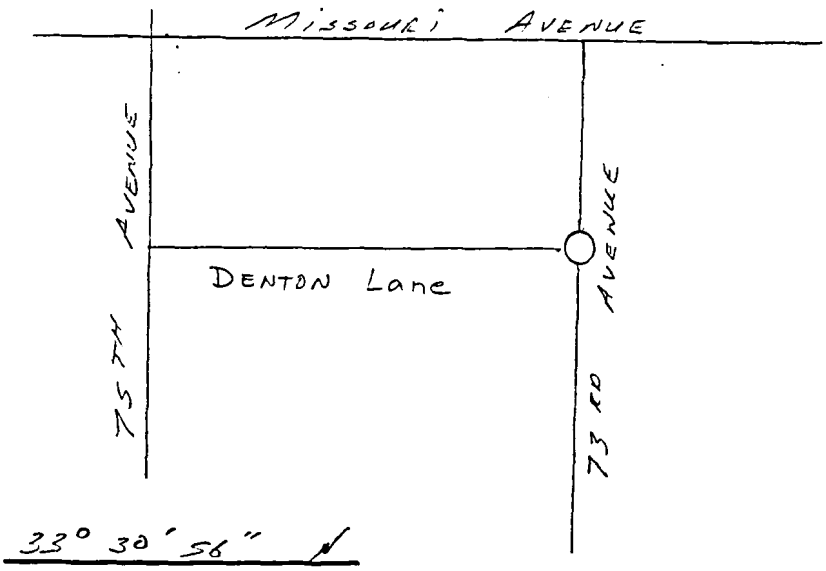
Described By: _____ Year Recovered: 7-30-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 56" ✓

Longitude: 112° 12' 58" W

To Reach: From north on 75TH ave. turn right (east) onto Denton Lane and go to 73rd ave.

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush (no mon)

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

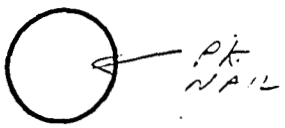
Panel Number: 324

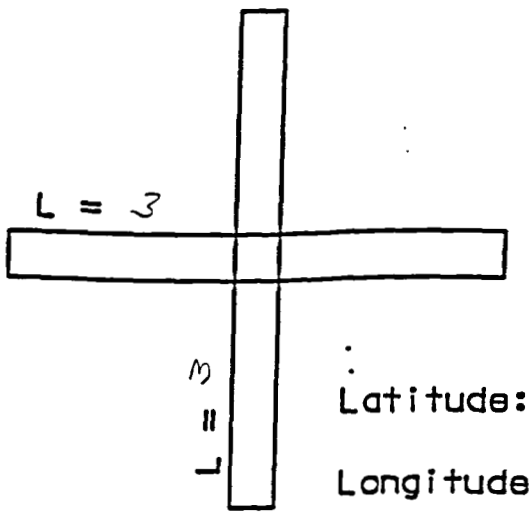
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 7-30-99

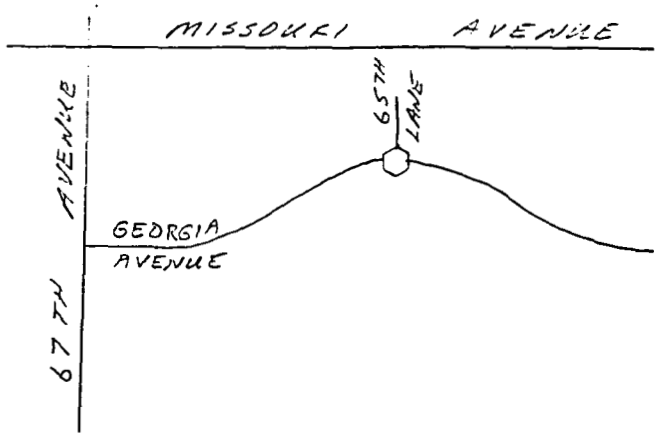
State / County: Arizona Pinal

Stamped




Location Sketch




Latitude: 33° 30' 57" N

Longitude: 112° 12' 05" W

To Reach: Go north on 67TH Avenue, turn left (east) onto Georgia Ave., go east to 65TH Lane

Entry Permit Required: Y___ N ✓

Monument Description: PK nail @ E intersection

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

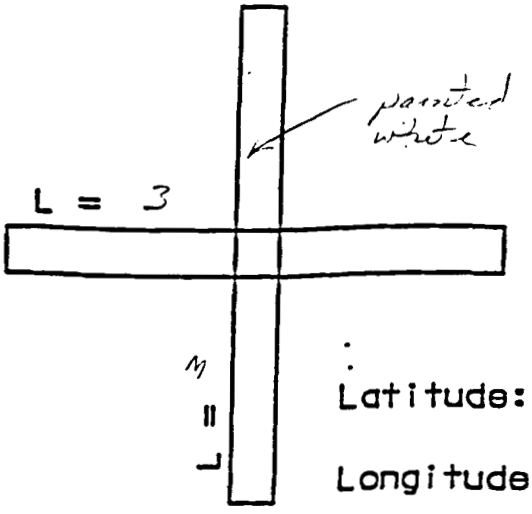
Panel Number: 373

USGS Quad: _____ Year Monumented: _____

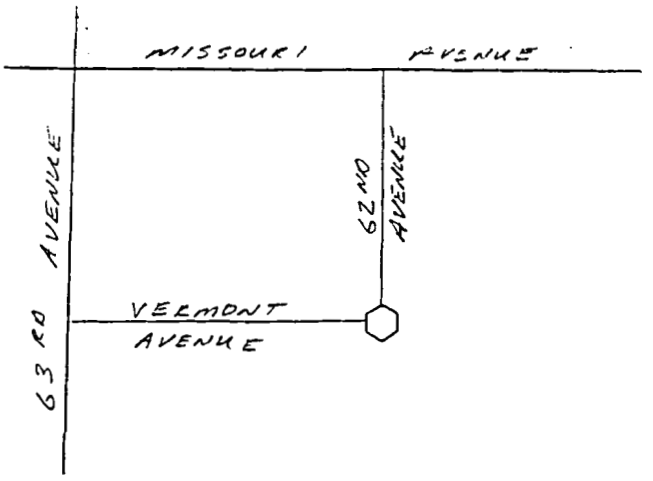
Described By: _____ Year Recovered: 7-30-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 57" N

Longitude: 112° 11' 34" W

To Reach: South on 63rd avenue turn west (east) onto Vermont Avenue and on to 62nd avenue intersection

Entry Permit Required: Y___ N V

Monument Description: PK nail @ point of intersection of street centerlines

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

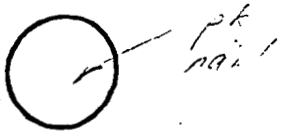
Panel Number: 386

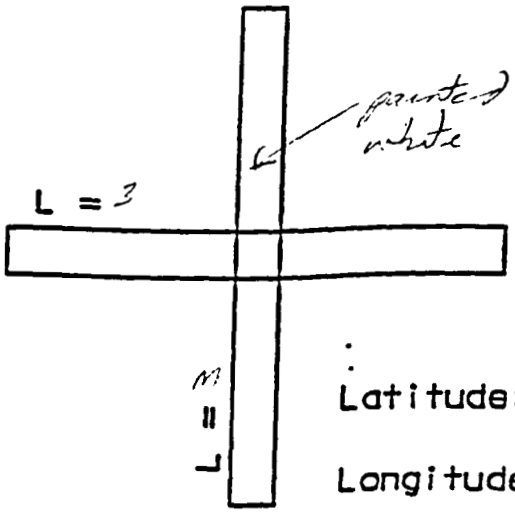
USGS Quad: _____ Year Monumented: 8-2-99

Described By: _____ Year Recovered: _____

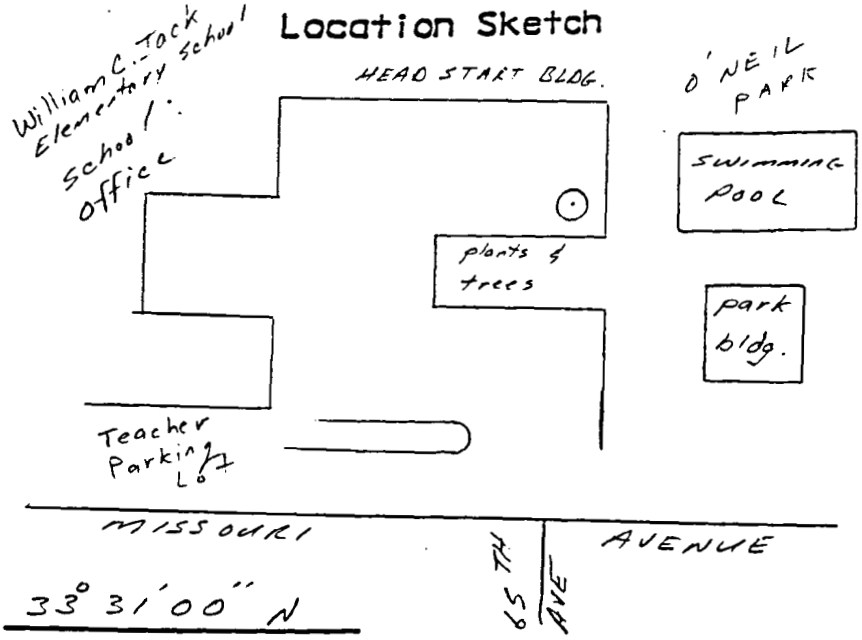
State / County: Arizona / Maricopa

Stamped




Location Sketch




Latitude: 33° 31' 00" N

Longitude: 112° 11' 57" W

To Reach: Go east from the Intersection of 67th Avenue on Missouri Ave, turn left (north) into School Parking lot (west of O'neil park) and go to head start parking lot area.

Entry Permit Required: Y ___ N ✓

Monument Description: PK Nail

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

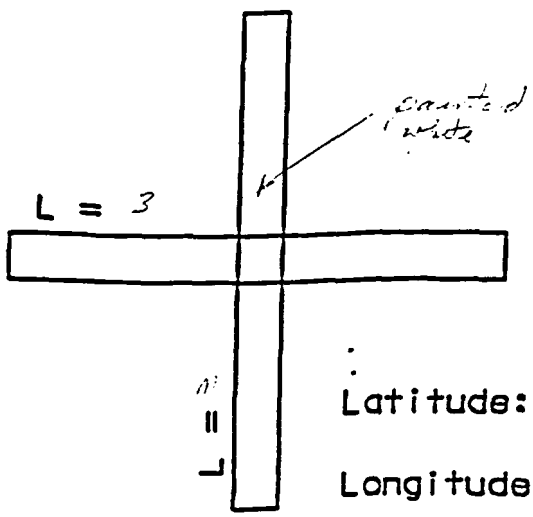
Panel Number: 378

USGS Quad: _____ Year Monumented: _____

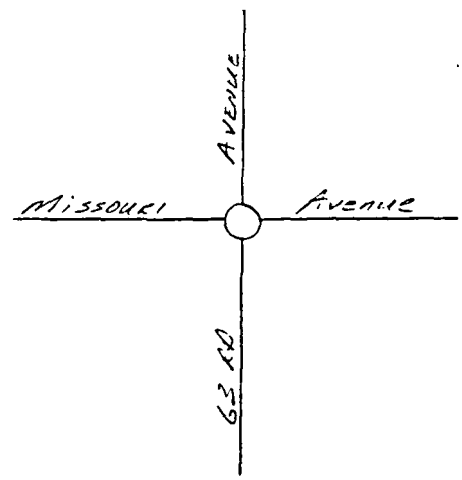
Described By: _____ Year Recovered: 7-30-99

State / County: Arizona / Maricopa

Stamped




Location Sketch




Latitude: 33° 31' 00" N

Longitude: 112° 11' 43" W

To Reach: Go north on 63 RD avenue to Missouri Avenue

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush City of Glendale

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 369

USGS Quad: _____ Year Monumented: _____

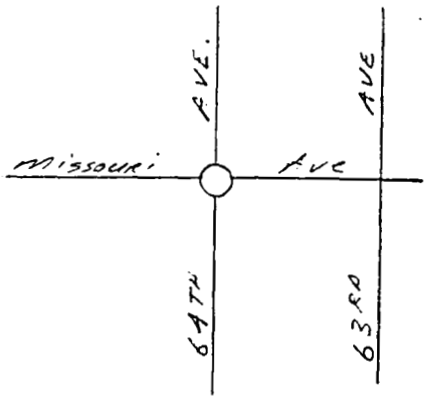
Described By: _____ Year Recovered: 7-30-99

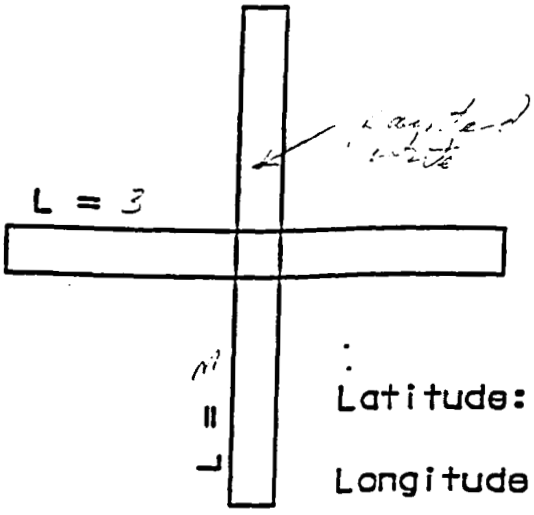
State / County: Arizona / Maricopa

Stamped

PK
NAIL

Location Sketch




Latitude: 33° 31' 02" N

Longitude: 112° 11' 50" W

To Reach: Go north on 63RD Ave, turn left (west) onto Missouri Ave, go to 64TH Ave

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush, City of Glendale

Signature Date

Collins/Pina
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

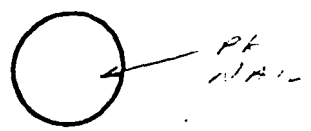
Panel Number: 368

USGS Quad: _____ Year Monumented: _____

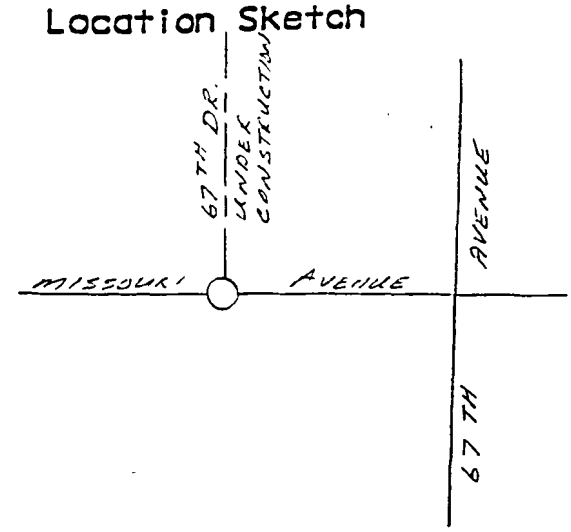
Described By: _____ Year Recovered: 7-30-99

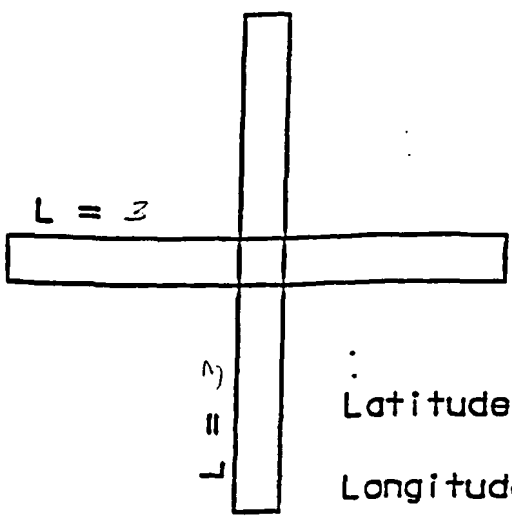
State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 59" N

Longitude: 112° 12' 18" W

To Reach: Go north on 67TH avenue turn left (west) onto Missouri avenue, go to 67TH Drive

Entry Permit Required: Y___ N ✓

Monument Description: PK NAIL

_____
Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

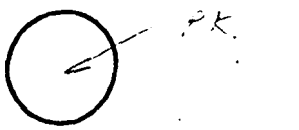
Panel Number: 361

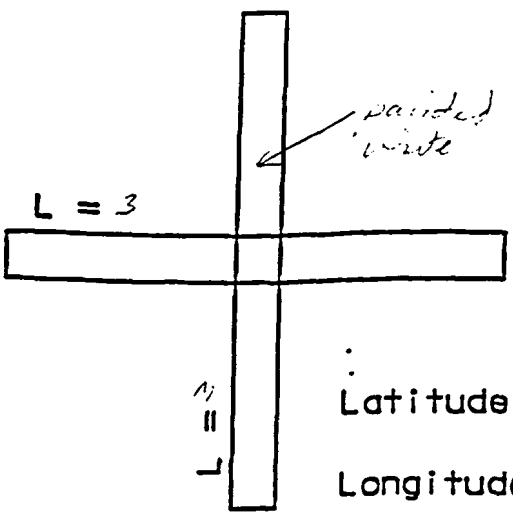
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 8-2-99

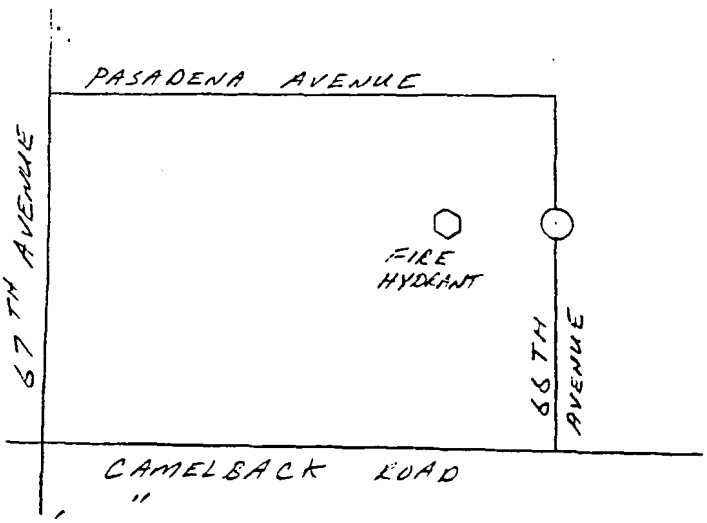
State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 36" N

Longitude: 112° 12' 04" W

To Reach: Going East on Camelback Road from 67th (north) approx 66th Avenue, go north 350± to fire hydrant

Entry Permit Required: Y___ N ✓

Monument Description: PK Nail in E ROAD

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

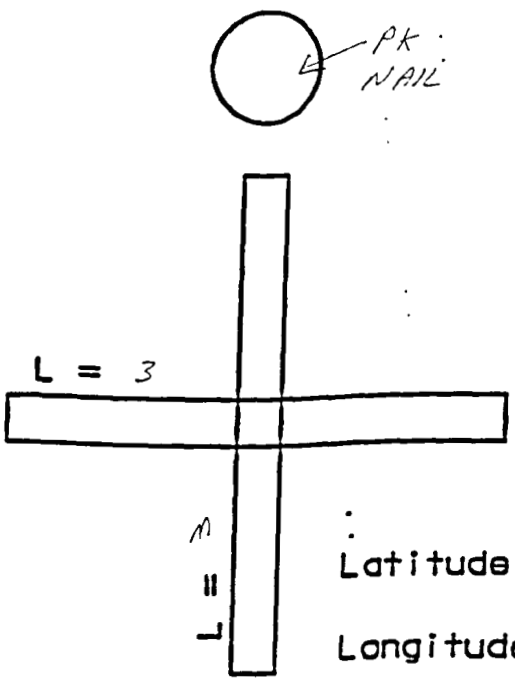
Panel Number: 360

USGS Quad: _____ Year Monumented: _____

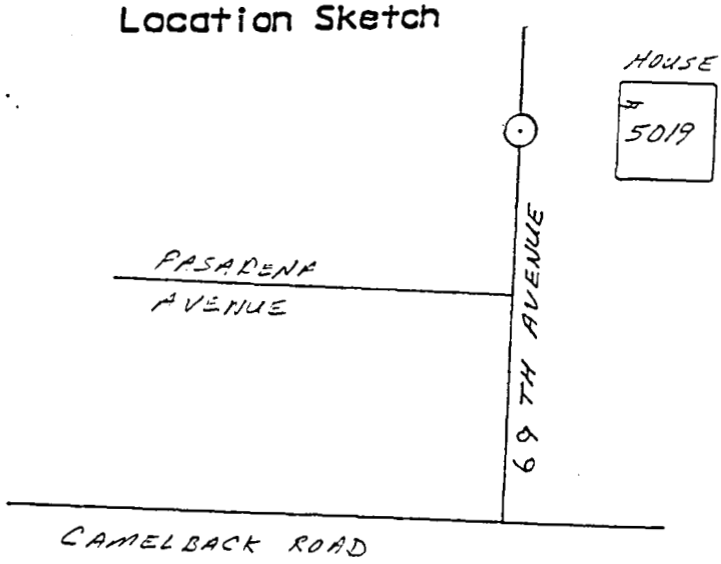
Described By: _____ Year Recovered: 8-2-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33°30'36" N

Longitude: 112° 12' 30" W

To Reach: Go east on Camelback Road, turn left (north) onto 69TH avenue go north 100± Pasadena avenue

Entry Permit Required: Y ___ N ✓

Monument Description: PK Nail

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 359

USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 8-2-99

State / County: Arizona / Maricopa

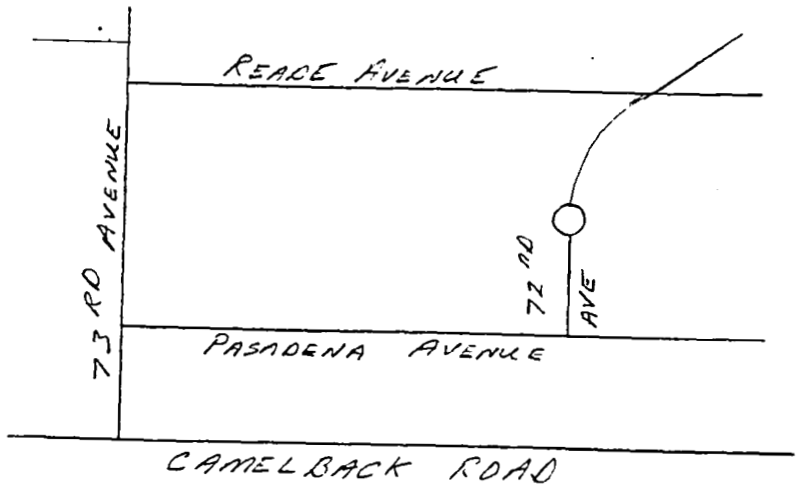
Stamped

C.O.S
10

L = 3

L = 11

Location Sketch




Latitude: 33° 30' 36" N

Longitude: 112° 12' 51" W

To Reach: Going east on Camelback Road turn left (north) onto 73rd Avenue, going north turn right (east) onto Pasadena Avenue, going east turn left (north) onto 72nd Avenue to the P.C. of the C.

Entry Permit Required: Y ___ N ✓

Monument Description: City of Glendale Brass Cap Flush

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

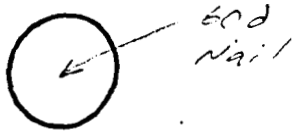
Panel Number: 348

USGS Quad: _____ Year Monumented: _____

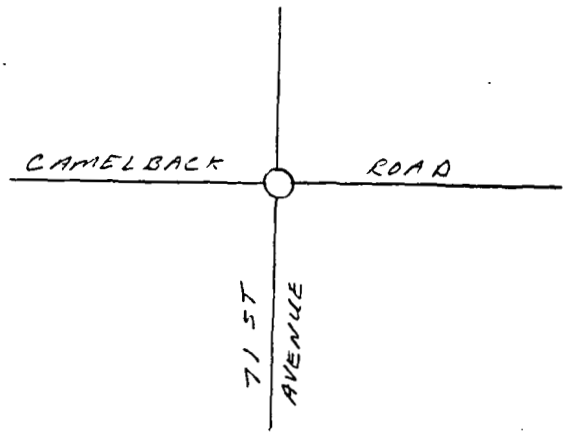
Described By: _____ Year Recovered: 8-2-99

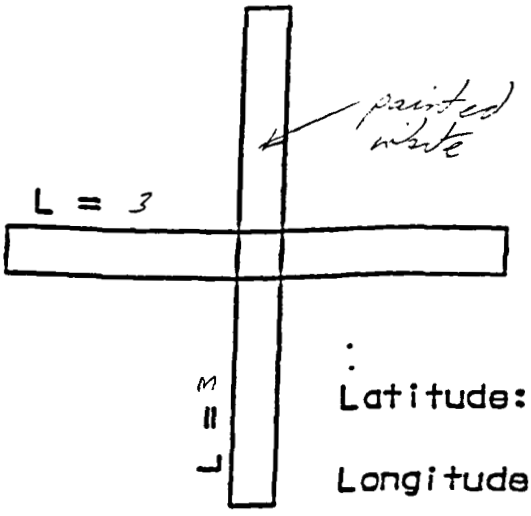
State / County: Arizona / Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 31" N

Longitude: 112° 12' 41" W

To Reach: Go to the intersection of Camelback Road & 71 ST Avenue

Entry Permit Required: Y___ N ✓

Monument Description: 60d Nail

_____
Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

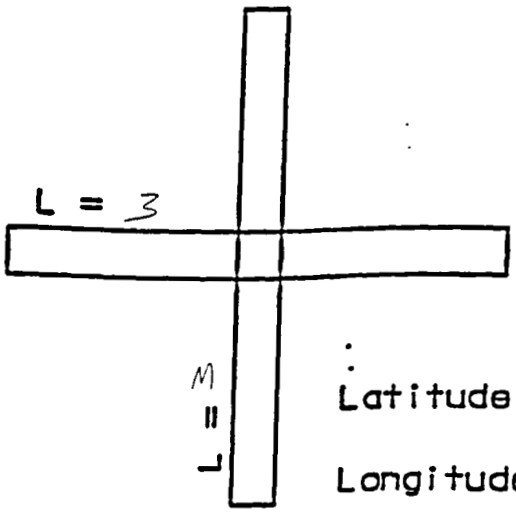
Panel Number: 350

USGS Quad: _____ Year Monumented: _____

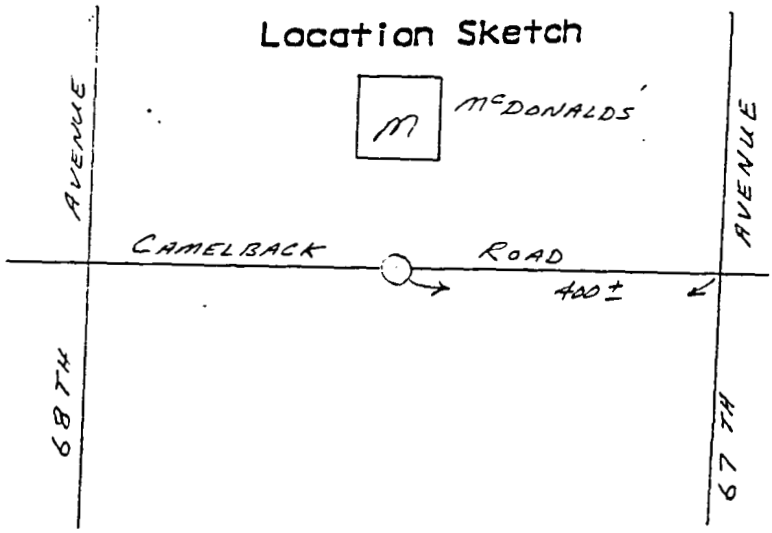
Described By: _____ Year Recovered: 8-2-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33 30 33 N

Longitude: 112 13 17 W

To Reach: From 67TH Avenue, go West on Camelback Rd. 400± feet. Panel point is in the E/S Camelback Rd. across from McDonalds

Entry Permit Required: Y___ N ✓

Monument Description: PK NAIL

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

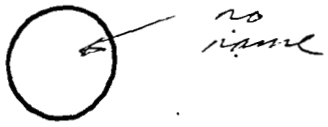
Panel Number: 357

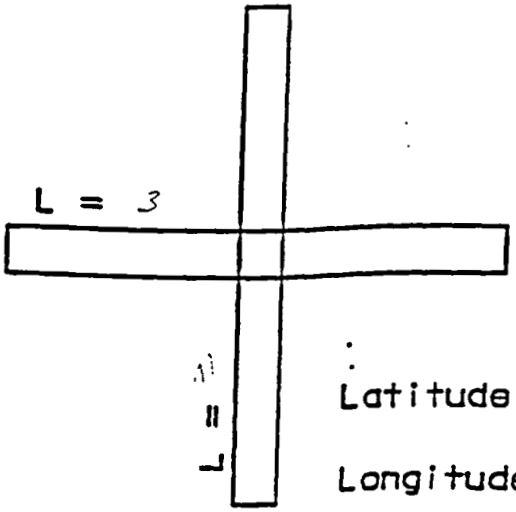
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 8-2-99

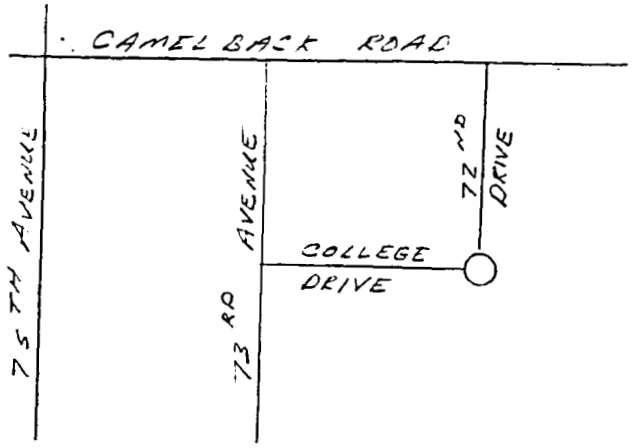
State / County: Arizona / Maricopa

Stamped




Location Sketch




Latitude: 33°30'57" N.

Longitude: 112°13'18" W

To Reach: From East on Camelback Road turn right (south) onto 72nd Drive, go south to College Drive

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

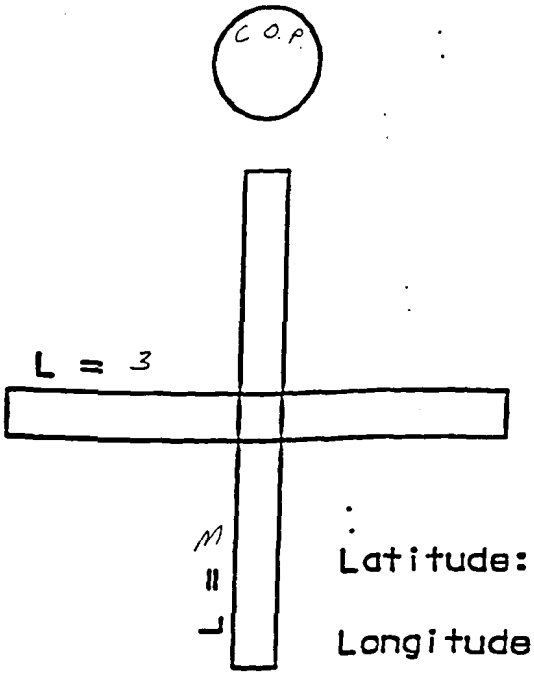
Panel Number: 354

USGS Quad: _____ Year Monumented: _____

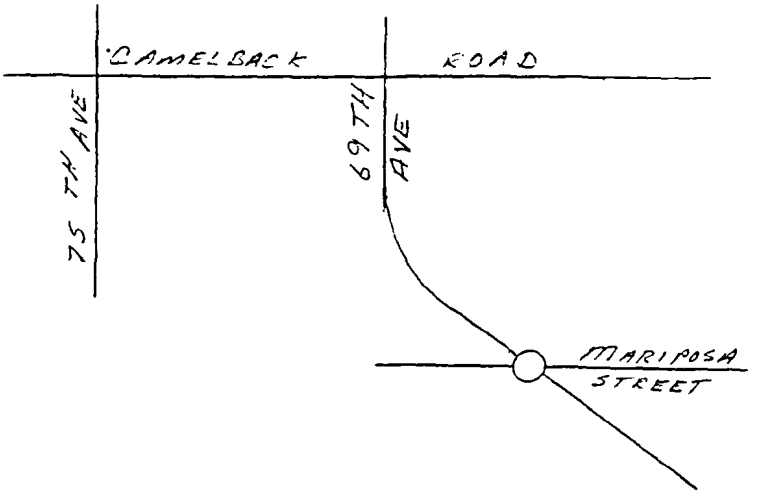
Described By: _____ Year Recovered: 8-2-97

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 20' 26" N

Longitude: 112° 12' 27" W

To Reach: Go east on Camelback Road, turn right (south) onto 69TH Avenue, go to Mariposa Street

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush with Ground

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

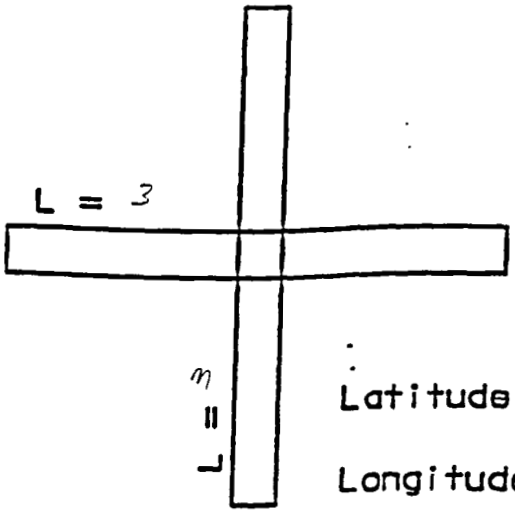
Panel Number: 355

USGS Quad: _____ Year Monumented: _____

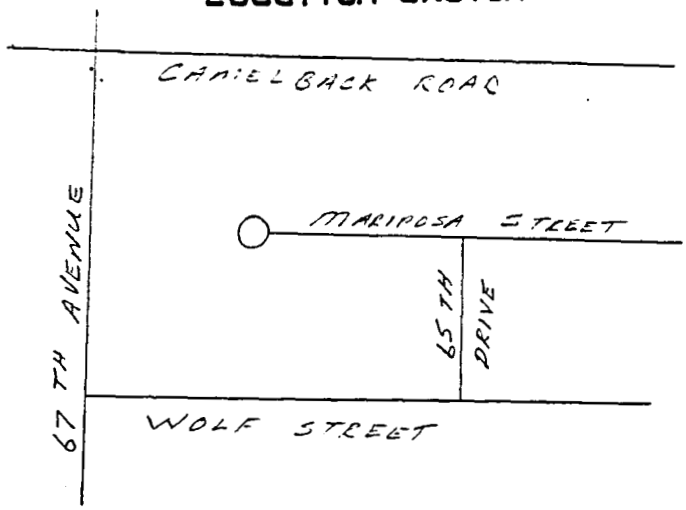
Described By: _____ Year Recovered: 8-2-99

State / County: Arizona / Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 31" N

Longitude: 112° 12' 03" W

To Reach: From Camelback Road go south on 67th Ave turn left (east) onto Wolf Street go east to 65th Drive turn left (north) onto 65th Drive go north & turn left (west) onto Mariposa Street & go west to dead end

Entry Permit Required: Y___ N ✓

Monument Description: City of Phoenix Brass Cap Flush

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

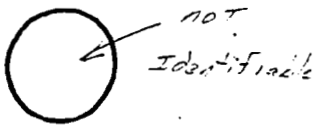
Panel Number: 354

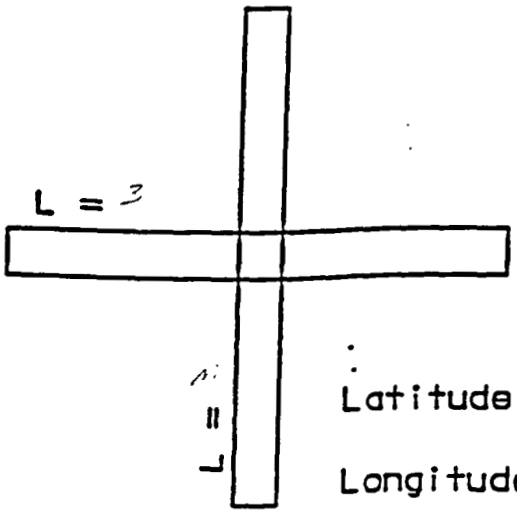
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 8-2-99

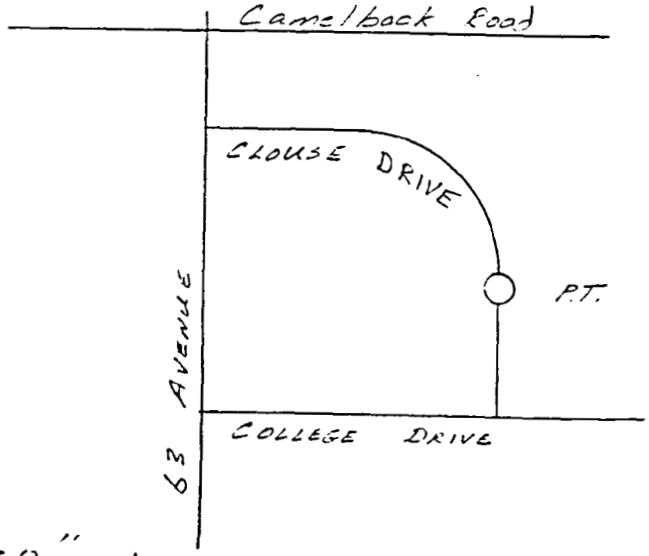
State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 30" N

Longitude: 112° 11' 37" W

To Reach: Going South on 63rd Avenue, turn left (east) onto Clouse Drive, go east to the P.T. of the 2nd Curve

Entry Permit Required: Y___ N ✓

Monument Description: Brass Cap Flush

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

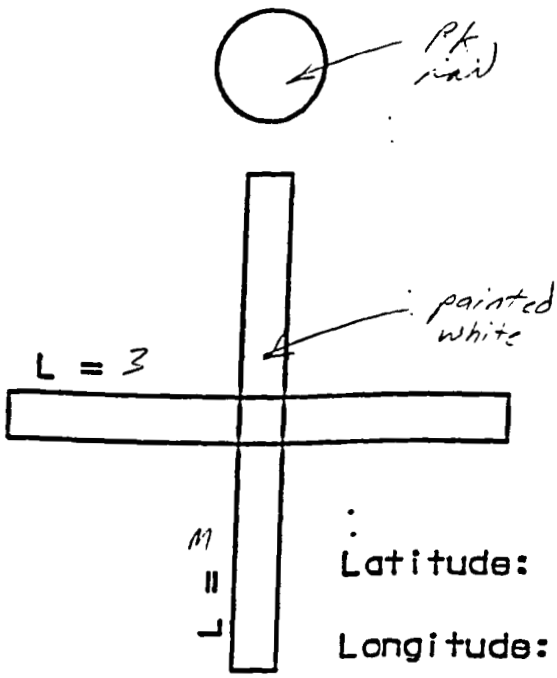
Panel Number: 5340

USGS Quad: _____ Year Monumented: _____

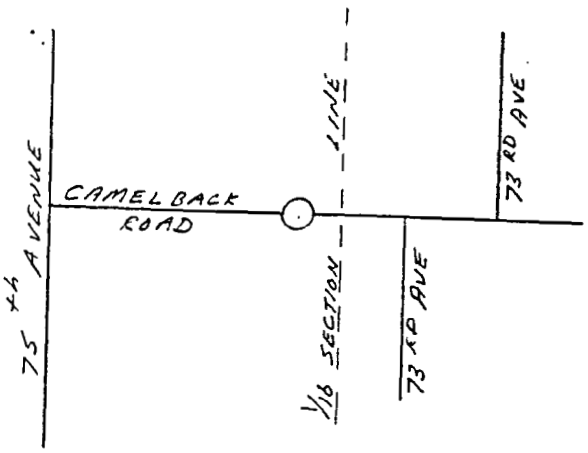
Described By: _____ Year Recovered: 8-2-99

State / County: arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 32" N

Longitude: 112° 13' 05" W

To Reach: From 75TH avenue, go east on Camelback road 0.2 mile to the panel point. Said point being west of 73 avenue 100±

Entry Permit Required: Y ___ N ✓

Monument Description: Pk nail

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 362

USGS Quad: _____ Year Monumented: _____

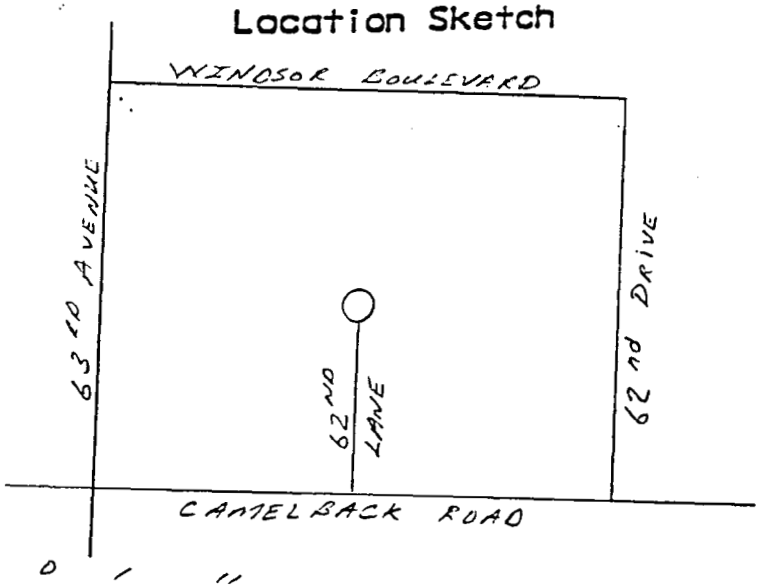
Described By: _____ Year Recovered: 8-2-99

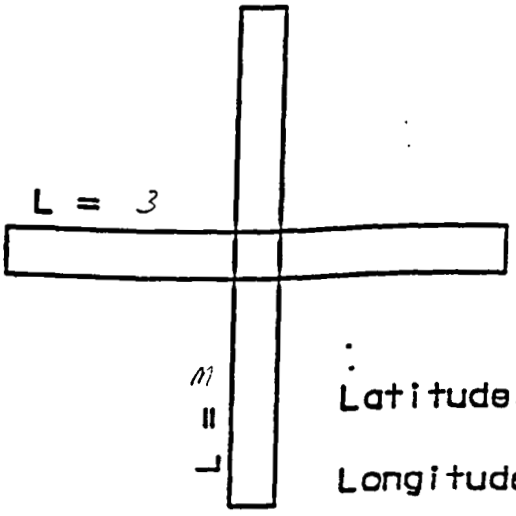
State / County: Arizona / Maricopa

Stamped

Pk Nail

Location Sketch




Latitude: 33° 30' 37" N

Longitude: 112° 11' 39" W

To Reach: From North on 63rd Avenue turn right (east) onto Windsor Blvd. Turn right (south) onto 62nd Drive go north to Camelback Road (north bound road) turn right (west) onto 62nd Lane (?) Turn right (north) into 62nd Lane 5 go to end at Cul de Sac

Entry Permit Required: Y___ N ✓

Monument Description: Pk Nail

_____

_____

_____

Signature Date

Collins/Piña

Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 351

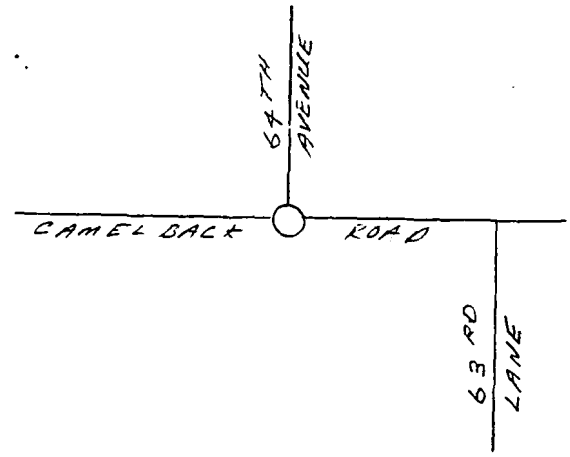
USGS Quad: _____ Year Monumented: _____

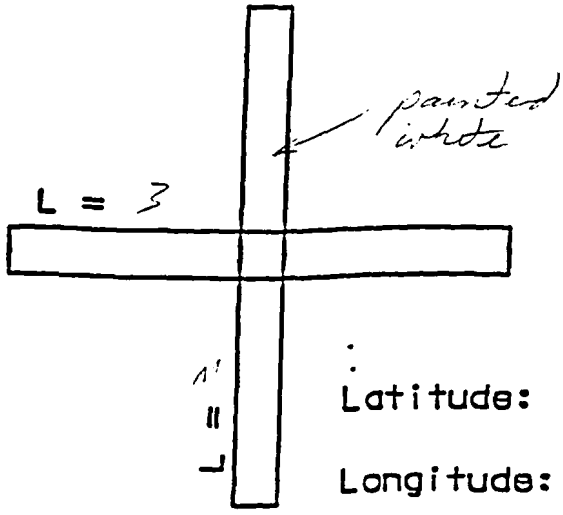
Described By: _____ Year Recovered: 8-2-99

State / County: Arizona / Maricopa

Stamped

Location Sketch




Latitude: 33° 30' 33" N

Longitude: 112° 11' 49" W

To Reach: From 67th Avenue going East on Camelback Road go to the intersection with 64th Avenue

Entry Permit Required: Y ___ N ✓

Monument Description: City of Glendale Brass Cap Flush

Signature Date

Collins/Pina
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

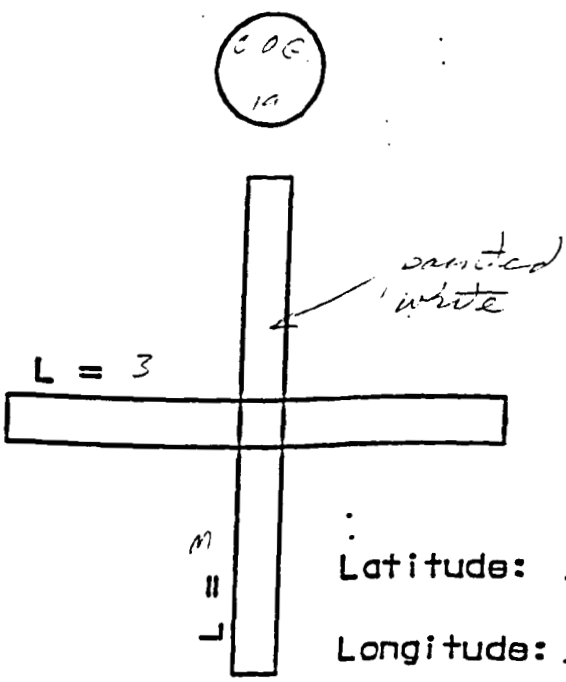
Panel Number: 352

USGS Quad: _____ Year Monumented: _____

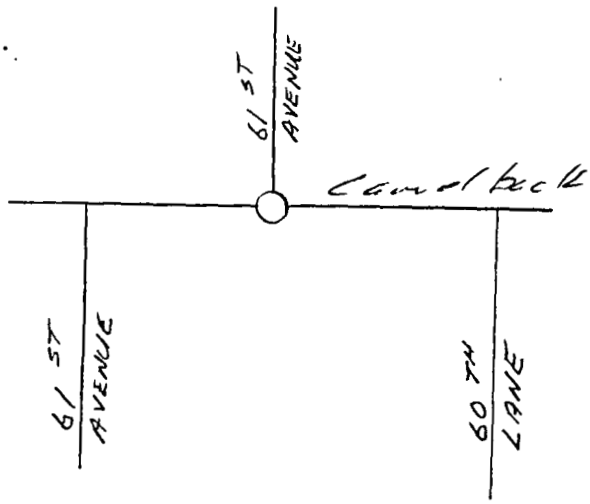
Described By: _____ Year Recovered: 8-2-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 33" N

Longitude: 112° 11' 27" W

To Reach: Going west from 59TH avenue on Camelback Rd. go to the intersection of 61ST Avenue (to the north)

Entry Permit Required: Y ___ N ✓

Monument Description: Brass Cap Flush. Ate of Glendale

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

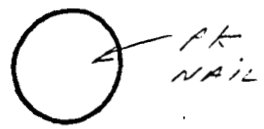
Panel Number: 363

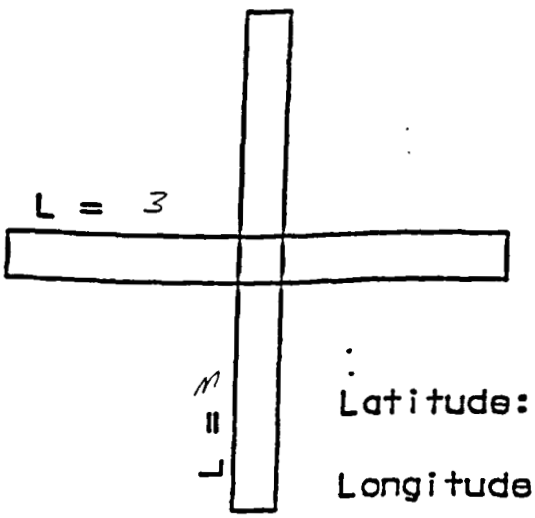
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 8-2-99

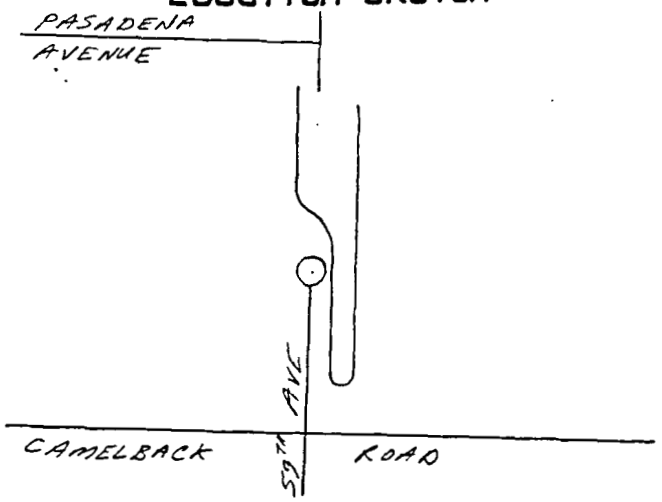
State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 37" N

Longitude: 112° 11' 11" W

To Reach: From the intersection of Camelback Road & 59TH Avenue, go north on 59TH Avenue 300± feet to stop south of Pasadena Avenue. PK nail located in the South Bound left turn lane

Entry Permit Required: Y___ N ✓

Monument Description: PK Nail

_____

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

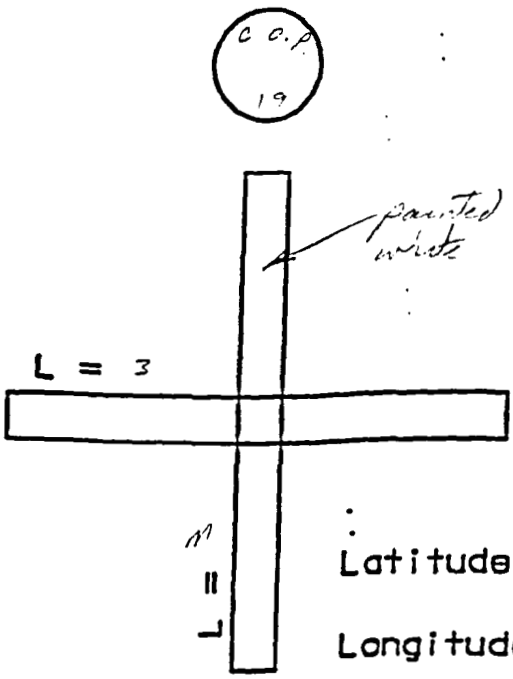
Panel Number: 353

USGS Quad: _____ Year Monumented: _____

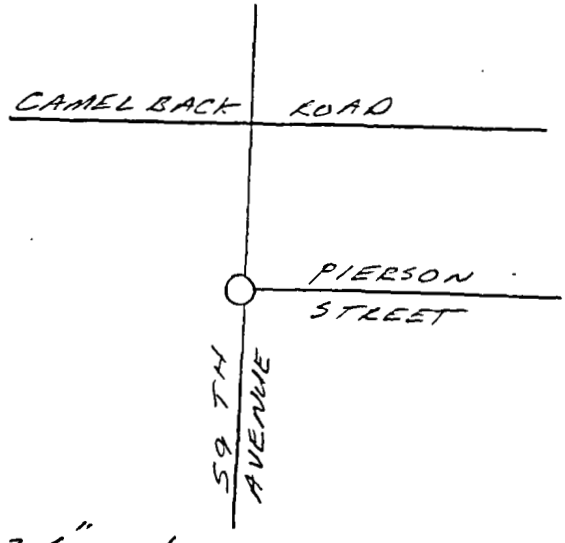
Described By: _____ Year Recovered: 8-2-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 30' 31" N

Longitude: 112° 11' 12" W

To Reach: From the intersect of Camelback Road and 59TH Avenue go south on 59th avenue to the Intersection of Pierson Street

Entry Permit Required: Y ___ N ✓

Monument Description: Brass Cap Flush, City of Phoenix

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

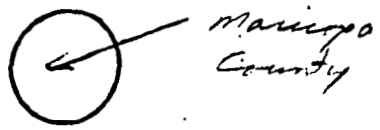
Panel Number: 315

USGS Quad: _____ Year Monumented: _____

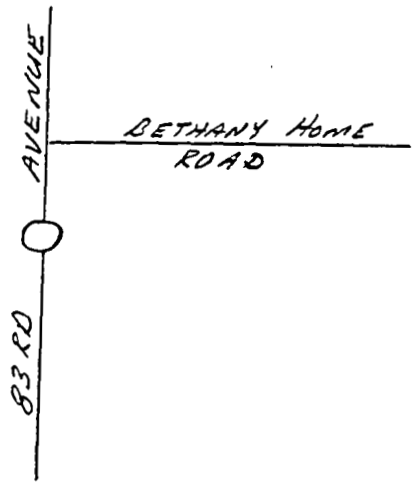
Described By: _____ Year Recovered: 8-5-99

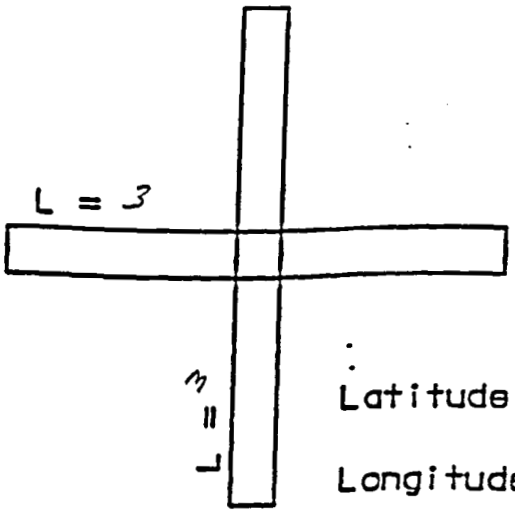
State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: _____

Longitude: _____

To Reach: Go to intersection of 83rd Avenue & Bethany Home Road

Entry Permit Required: Y___ N ✓

Monument Description: Brass cap flush

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 321

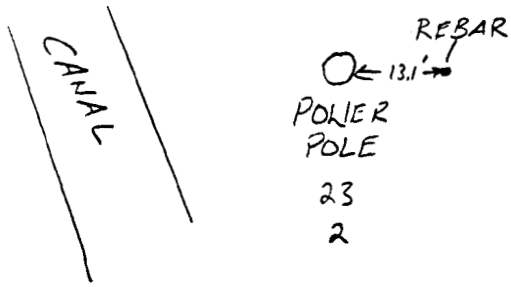
USGS Quad: _____ Year Monumented: 8-10-99

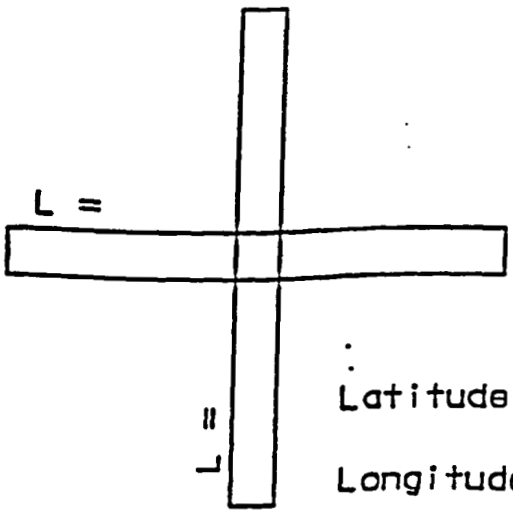
Described By: _____ Year Recovered: _____

State / County: ARIZONA / 1 MARICOPA

Stamped

Location Sketch




Latitude: 33° 31' 12" N

Longitude: 112° 13' 55" W

To Reach: GO SOUTHEAST ALONG CANAL FROM 83rd AVE. AND BETHANY HOME ON NORTHEAST SIDE OF CANAL UNTIL YOU REACH POLE # 23/2. REBAR IS 13.1' FROM POLE, PERPENDICULAR TO CANAL.

Entry Permit Required: Y___ N ✓

Monument Description: REBAR

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 328

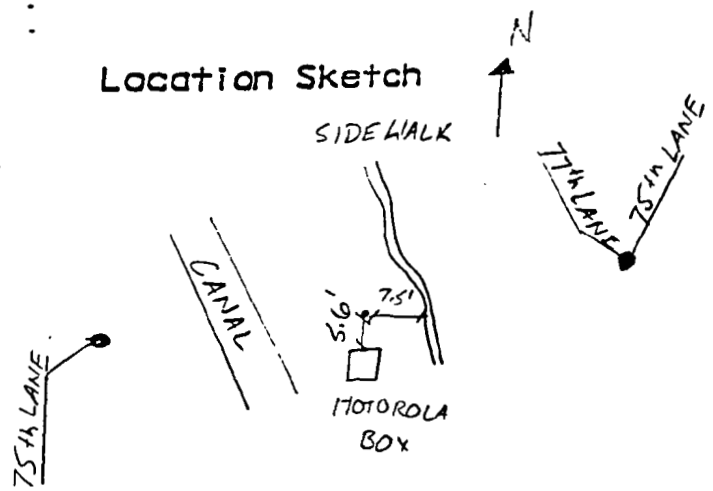
USGS Quad: _____ Year Monumented: 8-10-99

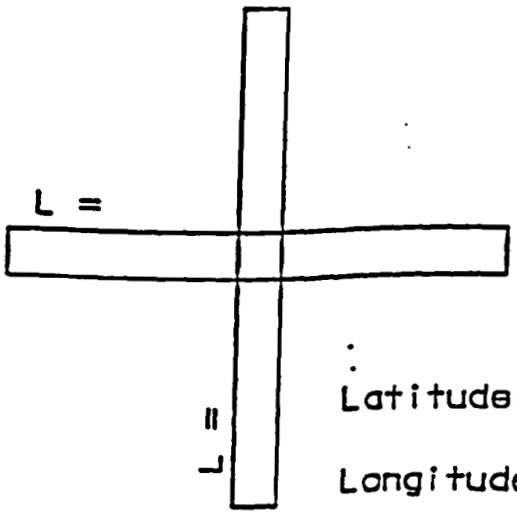
Described By: _____ Year Recovered: _____

State / County: ARIZONA MARICOPA

Stamped

Location Sketch




Latitude: 33° 30' 41" N

Longitude: 112° 13' 22" W

To Reach: FROM 75th AVE, TRAVELING SOUTH, TURN RIGHT BEFORE CANAL. TRAVEL ON NORTH EAST SIDE OF CANAL, GOING NORTHWEST, APROX. 1000'. REBAR IS BETWEEN CANAL AND SIDEWALK, 5.6' NORTHWEST OF MOTOROLA BOX AND 7.5' PERPENDICULAR FROM SIDEWALK

Entry Permit Required: Y___ N ✓

Monument Description: REBAR

_____

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_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 330

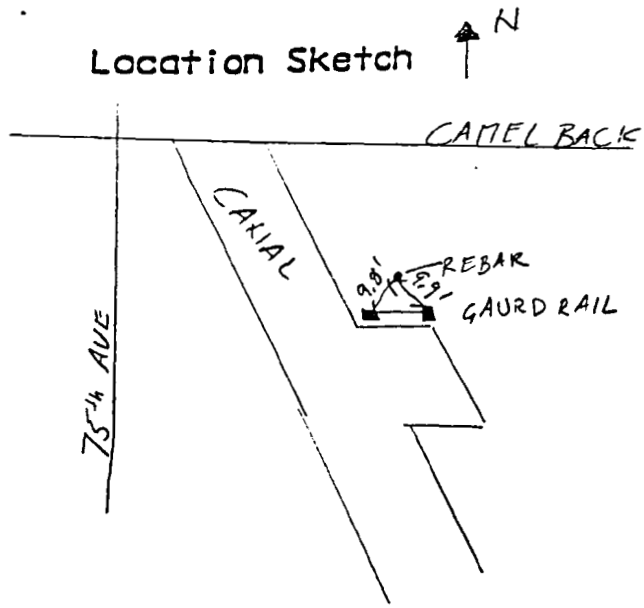
USGS Quad: _____ Year Monumented: _____

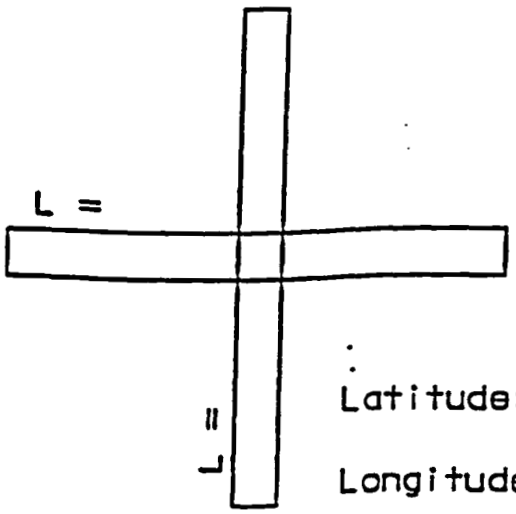
Described By: _____ Year Recovered: 8-10-99

State / County: ARIZONA MARICOPA

Stamped

Location Sketch




Latitude: 33° 30' 31" N

Longitude: 112° 13' 11" W

To Reach: TRAVELING WEST ON CAMEL BACK, TURN LEFT ON ROAD BEFORE THE CANAL AT 75TH AVE. TRAVEL SOUTHEAST ON NORTH EAST SIDE OF CANAL APROX. 200' TO GAURD RAIL. REBAR IS 9.9' FROM WESTERLY POST AND 9.9' FROM EASTERLY POST OF GAURD RAIL THAT IS PERPENDICULAR TO CANAL.

Entry Permit Required: Y___ N ✓

Monument Description: REBAR

_____

_____

_____

Signature Date

Collins/Piña

Phoenix – Tucson – Nogales

# PANEL DATA SHEET

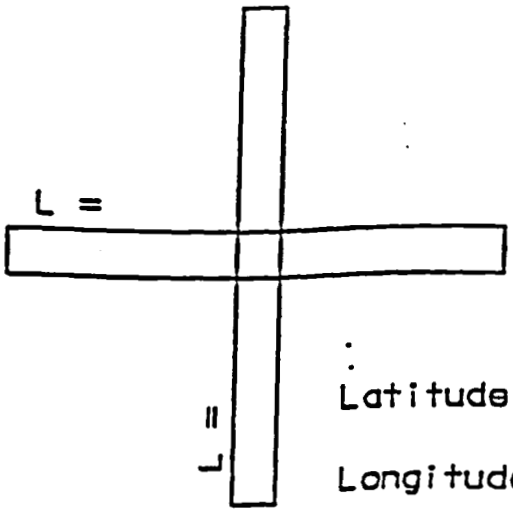
Panel Number: 300

USGS Quad: _____ Year Monumented: 8-10-99

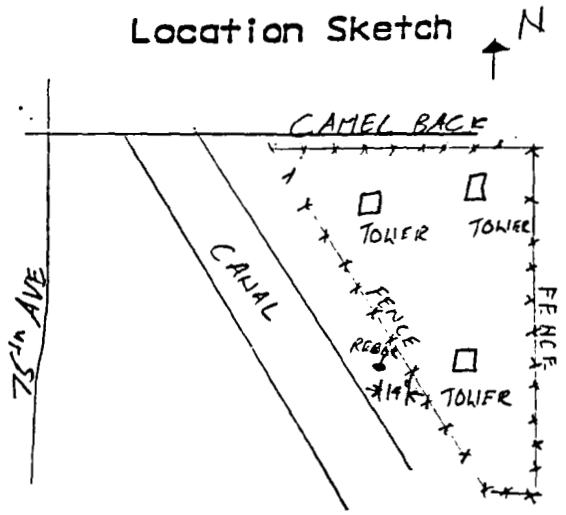
Described By: _____ Year Recovered: _____

State / County: ARIZONA MARICOPA

Stamped




Location Sketch




Latitude: 33° 30' 26" N

Longitude: 112° 13' 01" W

To Reach: GOING WEST ON CAMELBACK TURN LEFT BEFORE CANAL AT 75TH AVE. TRAVE SOUTHEAST ON NORTHEAST SIDE OF CANAL UNTIL SOUTHERLY RADIO TOWER. REBAR IS 19' PERPENDICULAR FROM FENCE TOWARDS CANAL.

Entry Permit Required: Y___ N ✓

Monument Description: REBAR

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 331

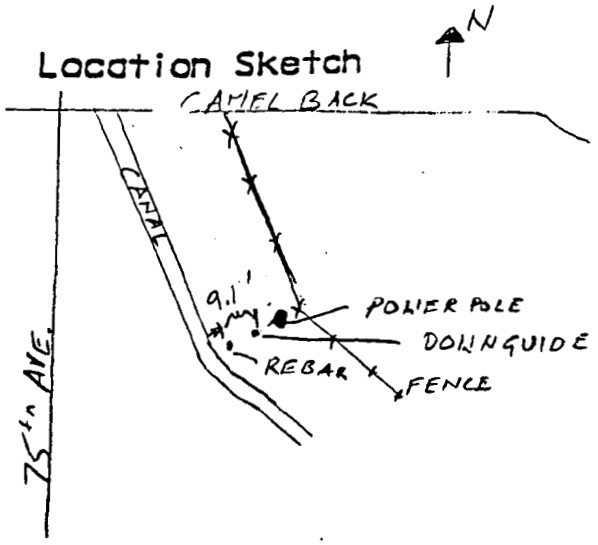
USGS Quad: _____ Year Monumented: 2/10/99

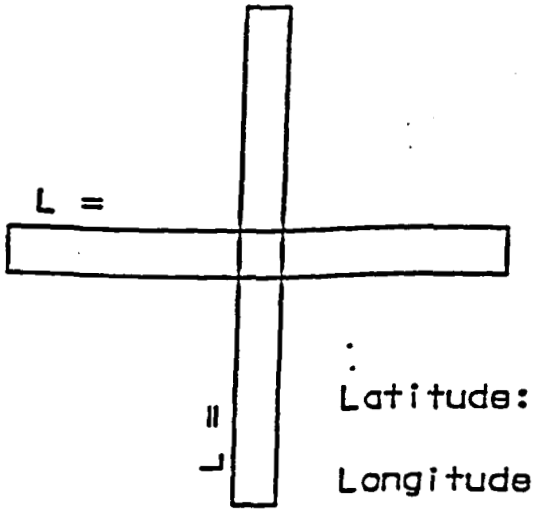
Described By: _____ Year Recovered: _____

State / County: ARIZONA MARICOPA

Stamped

Location Sketch




Latitude: 33° 30' 14" N

Longitude: 112° 12' 50" W

To Reach: GOING WEST ON CAMEL BACK, TURN LEFT BEFORE CANAL AT 25th AVE. GOING SOUTHEAST ON NORTHEAST SIDE OF CANAL, TRAVEL UNTIL THE FENCE ON NORTHEAST SIDE OF CANAL MAKES AN ANGLE. REBAR IS 9.1' AWAY FROM DOWN GUIDE ON THE WESTERLY SIDE IN LINE WITH POLIER POLE.

Entry Permit Required: Y___ N ✓

Monument Description: REBAR

_____

_____

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Signature Date

Collins/Piña

Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 332

USGS Quad: _____ Year Monumented: 8-10-99

Described By: _____ Year Recovered: _____

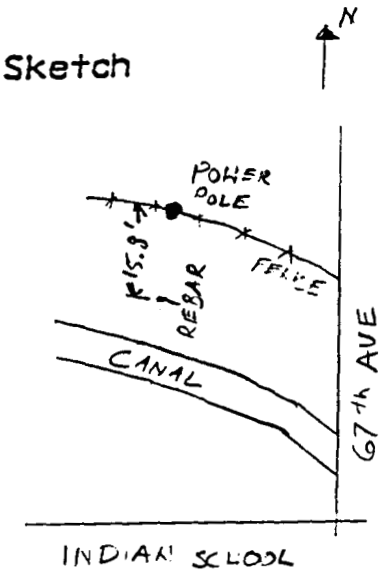
State / County: ARIZONA MARICOPA

Stamped

REBAR

L =

Location Sketch




Latitude: 33° 30' 02" N

Longitude: 112° 12' 23" W

To Reach: HEADING SOUTH ON 67th AVE TURN RIGHT BEFORE THE CANAL AT INDIAN SCHOOL RD. TRAVELING NORTH WEST ON THE NORTH EAST SIDE OF THE CANAL, 40 8 POWER POLES ON THE NORTH EAST SIDE. REBAR IS 15.8' ALIAY FROM FENCE TOWARDS THE CANAL

Entry Permit Required: Y___ N ✓

Monument Description: REBAR

_____

_____

_____

Signature Date

Collins/Piña

Phoenix – Tucson – Nogales

# PANEL DATA SHEET

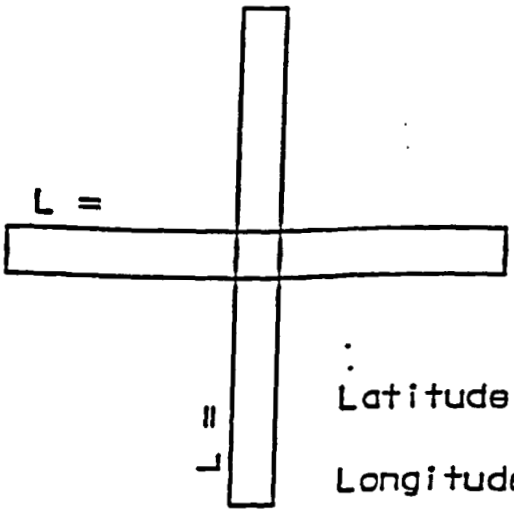
Panel Number: 333

USGS Quad: _____ Year Monumented: 8-10-99

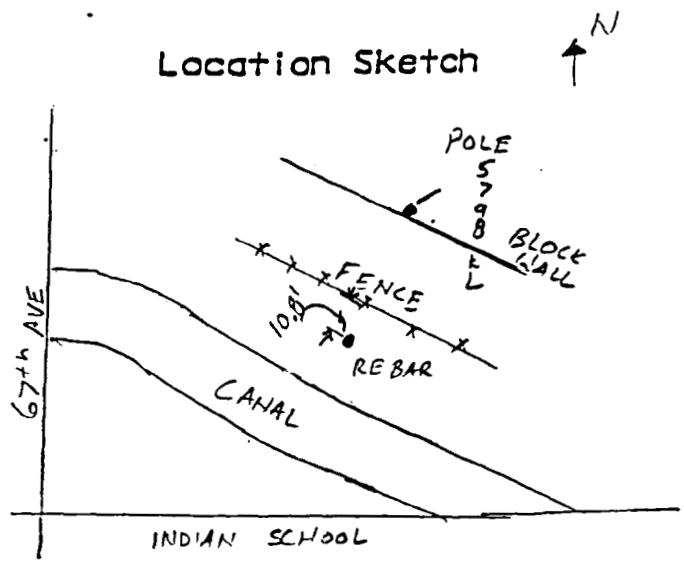
Described By: _____ Year Recovered: _____

State / County: ARIZONA MARICOPA

Stamped




Location Sketch




Latitude: 33° 29' 51" N

Longitude: 112° 12' 06" W

To Reach: TRAVELING SOUTH ON 67th AVE. TURN LEFT BEFORE CANAL AT INDIAN SCHOOL RD. TRAVEL SOUTH EAST ON NORTHEAST SIDE OF CANAL UNTIL POWER POLE 5798KL. REBAR IS 10.8' FROM CHAIN LINK FENCE TOWARDS CANAL.

Entry Permit Required: Y ___ N ✓

Monument Description: REBAR

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

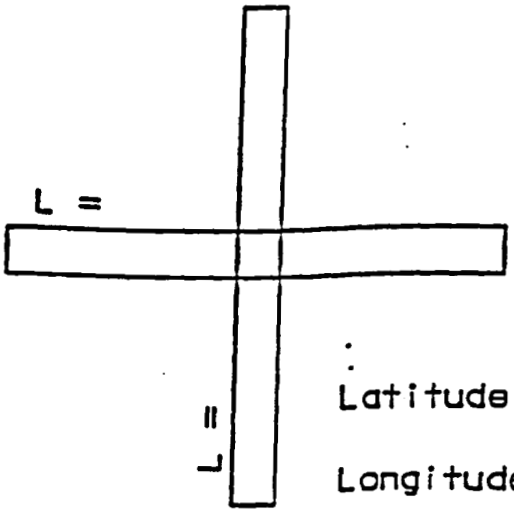
Panel Number: 334

USGS Quad: _____ Year Monumented: 8-10-99

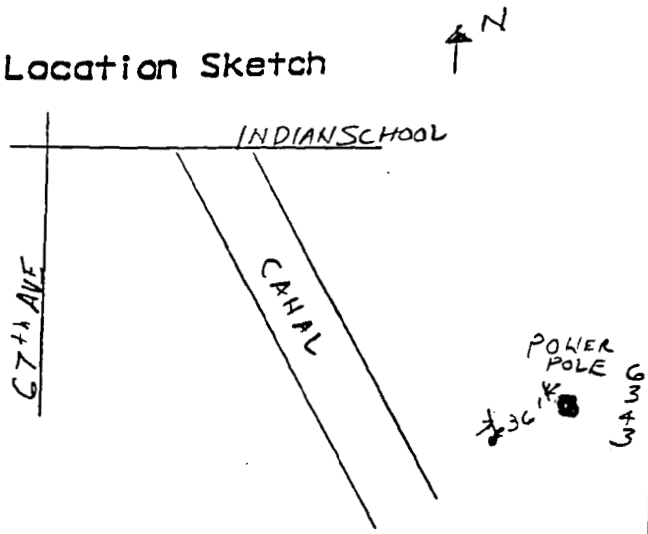
Described By: _____ Year Recovered: _____

State / County: ARIZONA MARICOPA

Stamped




Location Sketch




Latitude: 33° 29' 35" N

Longitude: 112° 11' 49" W

To Reach: TRAVELING WEST ON INDIAN SCHOOL TURN LEFT BEFORE CANAL AT 67th AVE. TRAVELING SOUTHEAST ON NORTHEAST SIDE OF CANAL GO TO POLER POLE # 6343. REBAR IS 26' FROM POLER POLE TOWARDS CANAL.

Entry Permit Required: Y ___ N ✓

Monument Description: REBAR

_____
Signature Date

Collins/Pina
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 303

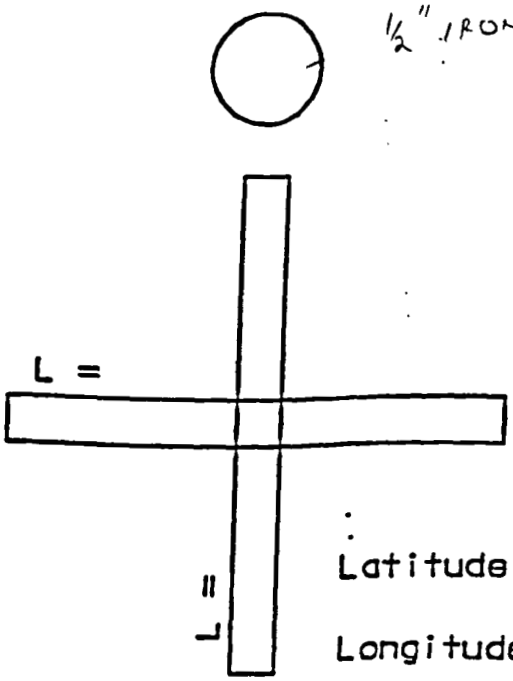
USGS Quad: _____ Year Monumented: 8-10-99

Described By: _____ Year Recovered: _____

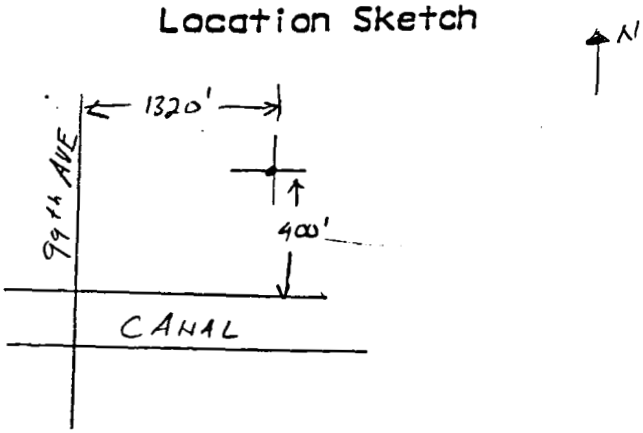
State / County: ARIZONA MARICOPA

Stamped

1/2" IRON ROD




Location Sketch




Latitude: 33° 31' 30" N

Longitude: 112° 16' 05" W

To Reach: GO NORTH ON 99th AVE. TURN RIGHT JUST AFTER THE CANAL. GOING EAST ON THE NORTH SIDE OF THE CANAL GO 1320' EAST AND 400' NORTH OF THE CANAL. REBAR IS NEAR THE EAST RIGHT OF WAY OF THE 101.

Entry Permit Required: Y ___ N ✓

Monument Description: 1/2" IRON ROD

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

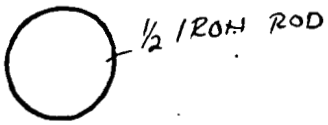
Panel Number: 301

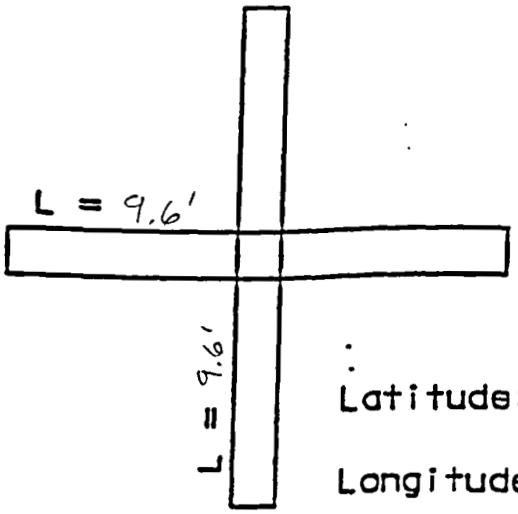
USGS Quad: _____ Year Monumented: 8-10-99

Described By: _____ Year Recovered: _____

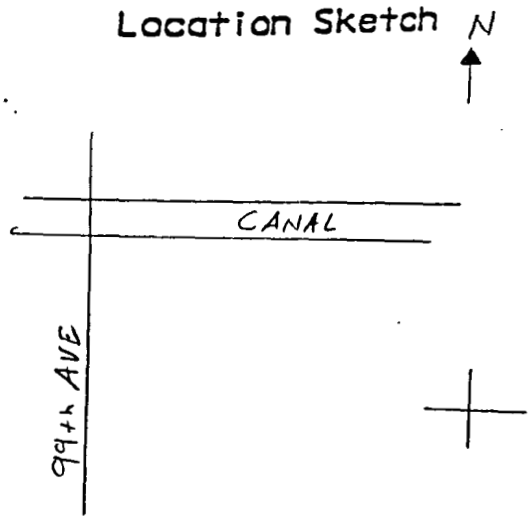
State / County: ARIZONA MARICOPA

Stamped




Location Sketch




Latitude: 33° 31' 20" N

Longitude: 112° 16' 05" W

To Reach: TRAVELING NORTH ON 99th AVE TURN RIGHT JUST BEFORE THE CANAL. TRAVELING EAST ON THE SOUTH SIDE OF THE CANAL GO 1320'E AND 300'± SOUTH OF THE CANAL. THE PANEL IS ALONG THE EAST RIGHT OF WAY OF THE 101.

Entry Permit Required: Y___ N ✓

Monument Description: ½ IRON ROD

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

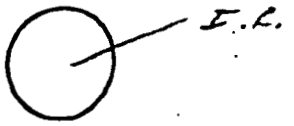
Panel Number: 307

USGS Quad: _____ Year Monumented: _____

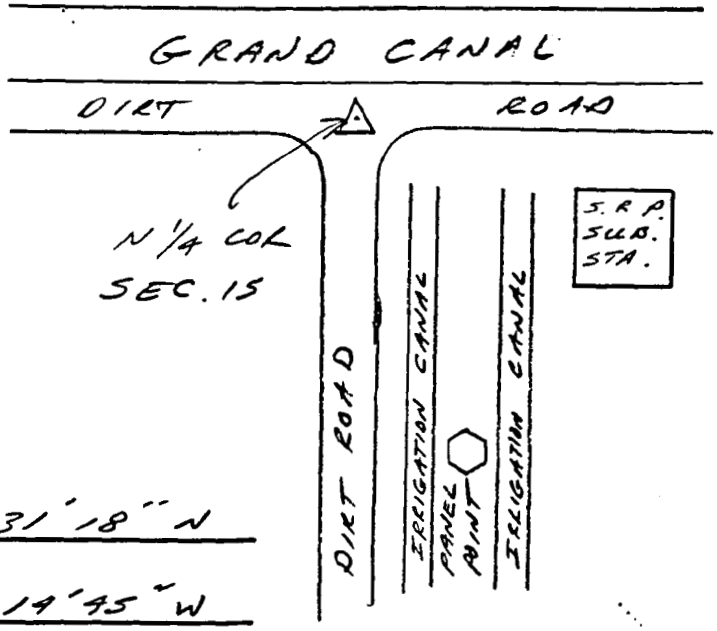
Described By: _____ Year Recovered: 8-11-99

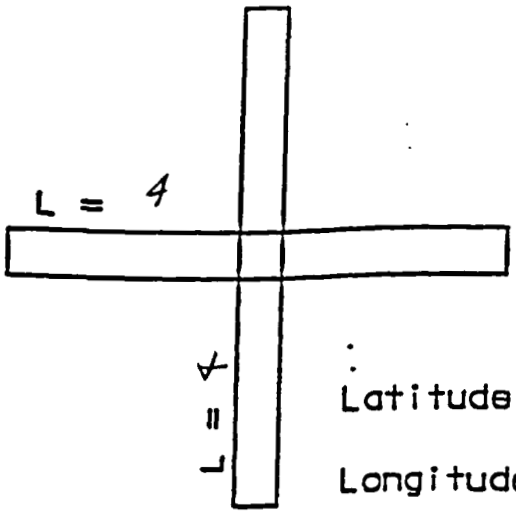
State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33°31'18" N

Longitude: 112°14'45" W

To Reach: From 83RD 85TH Avenue go west along the South side of the Grand Canal, 0.5 mile. Then Go South ±300 feet to panel point

Entry Permit Required: Y___ N ✓

Monument Description: 1/2" iron rod

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

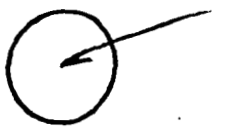
Panel Number: 309

USGS Quad: _____ Year Monumented: _____

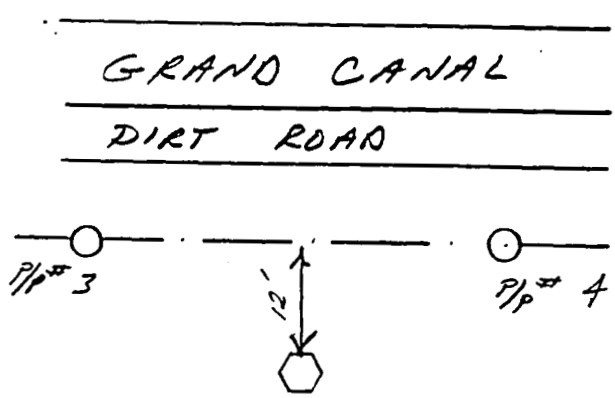
Described By: _____ Year Recovered: 8-11-99

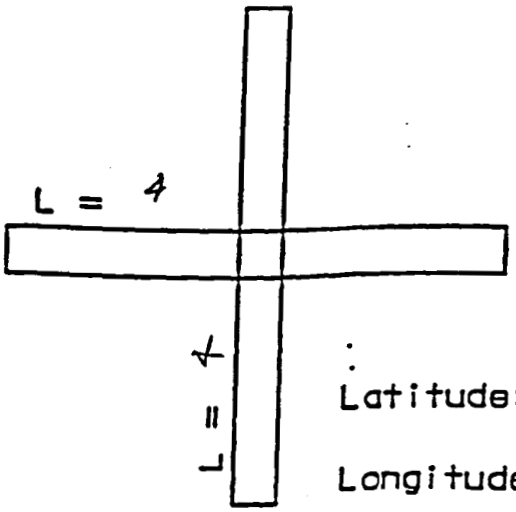
State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 31' 25" N

Longitude: 112° 14' 40" W

To Reach: From 83rd Avenue go West along the South side of Grand Canal 0.30 mile, between P/P # 3 & # 4 12' south of Powerline

Entry Permit Required: Y___ N ✓

Monument Description: 1/2" I. R.

Signature Date

Collins/Pina
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

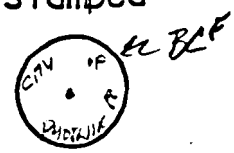
Panel Number: 314

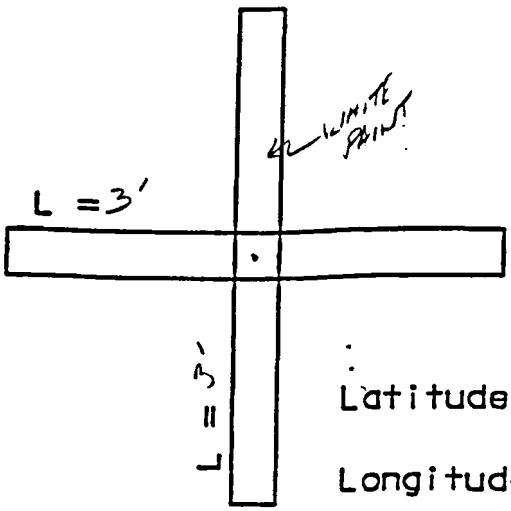
USGS Quad: _____ Year Monumented: 19?

Described By: GHH Year Recovered: 1999

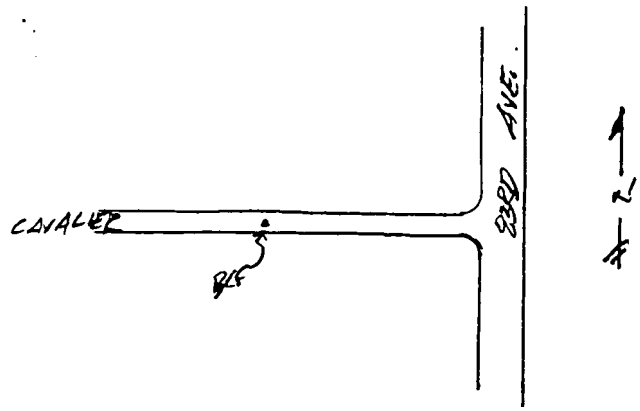
State / County: MARICOPA _____

Stamped




Location Sketch




Latitude: 33°31'27 N

Longitude: 112°14'33" W

To Reach: CENTERLINE OF CAVALIER 1200' WEST OF 83RD AVE, FND BRASS CAP FLUSH - CITY OF PHOENIX

Entry Permit Required: Y___ N X

Monument Description: _____

_____
Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

Panel Number: 364

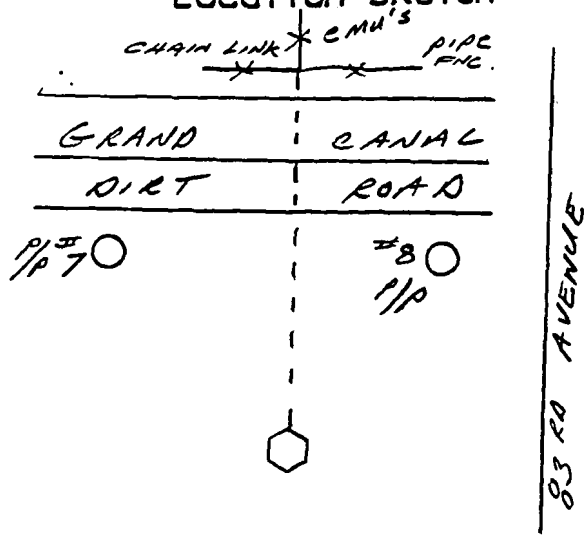
USGS Quad: _____ Year Monumented: _____

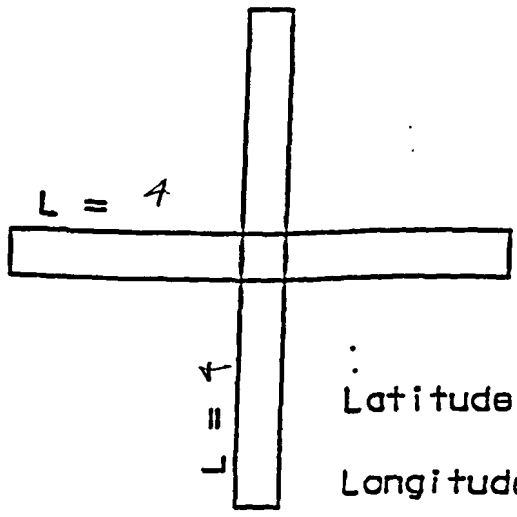
Described By: _____ Year Recovered: 8-11-99

State / County: Arizona Maricopa

Stamped

Location Sketch




Latitude: 33°31'21" N

Longitude: 112° 14' 30" W

To Reach: From 83rd Avenue, go west along the South side of the Grand Canal ± 800 feet. Then go South ± 300 feet into cotton field

Entry Permit Required: Y___ N ✓

Monument Description: 1/2" I.R.

Signature Date

Collins/Piña
Phoenix – Tucson – Niagara

# PANEL DATA SHEET

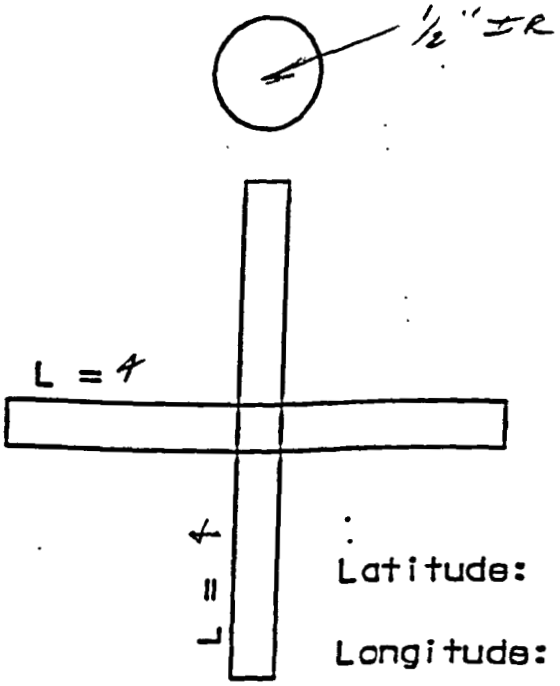
Panel Number: 304

USGS Quad: _____ Year Monumented: _____

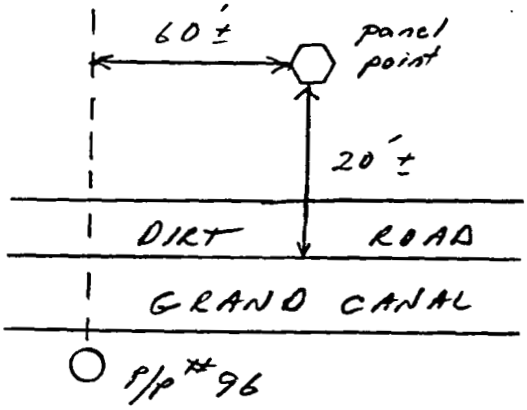
Described By: _____ Year Recovered: 8-11-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33°31'24" N.

Longitude: 112°15'49" W

To Reach: From 91ST Avenue, go west on the North Side of the Grand Canal 0.45 miles, near P/P #96

Entry Permit Required: Y___ N ✓

Monument Description: ½" I.R.

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

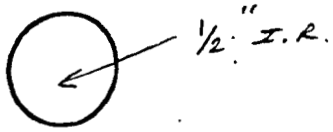
Panel Number: 305

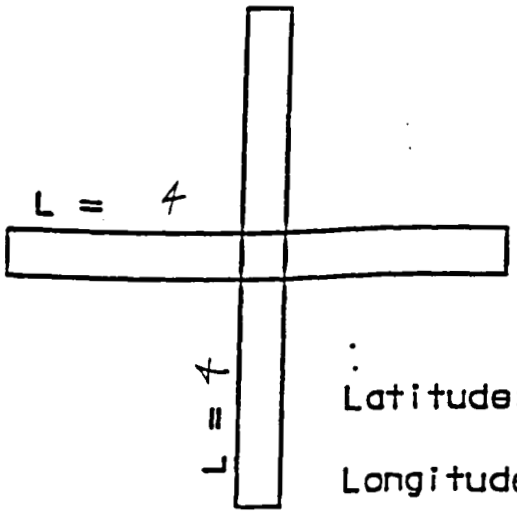
USGS Quad: _____ Year Monumented: _____

Described By: _____ Year Recovered: 8-11-99

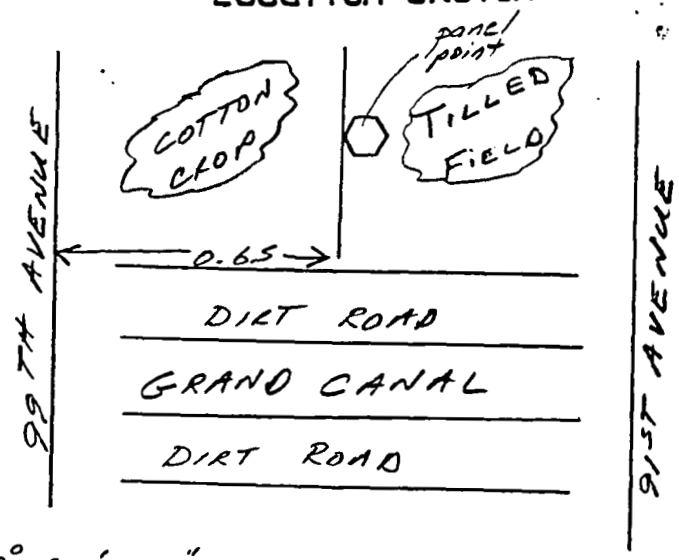
State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 31' 29"

Longitude: 112° 16' 05"

To Reach: From 99TH Ave, go East along the North side of the Grand Canal 0.65 miles to a mature cotton crop on the West & a freshly tilled field on the East, Go North between the said fields 300±

Entry Permit Required: Y___ N ✓

Monument Description: 1/2" iron rod

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

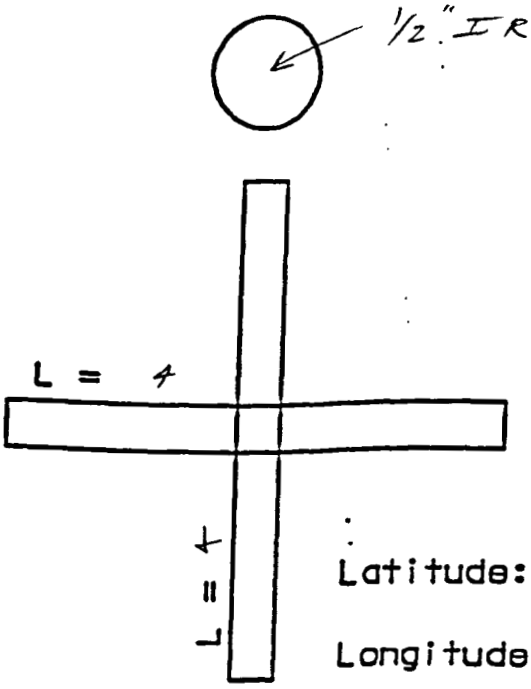
Panel Number: 302

USGS Quad: _____ Year Monumented: _____

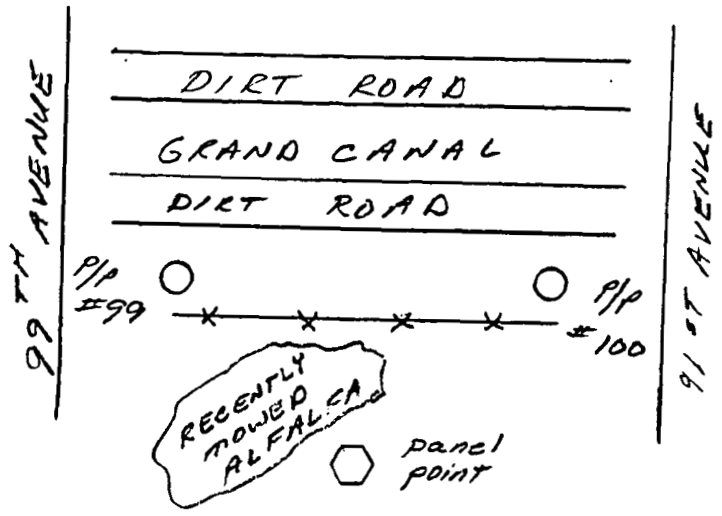
Described By: _____ Year Recovered: 8-11-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 31' 20" N

Longitude: 112° 15' 37" W

To Reach: From 91ST Avenue go west along the South side of the Grand Canal 0.30 miles Go south ± 300 feet

Entry Permit Required: Y ___ N ✓

Monument Description: 1/2" I.R.

Signature Date

Collins/Pina
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

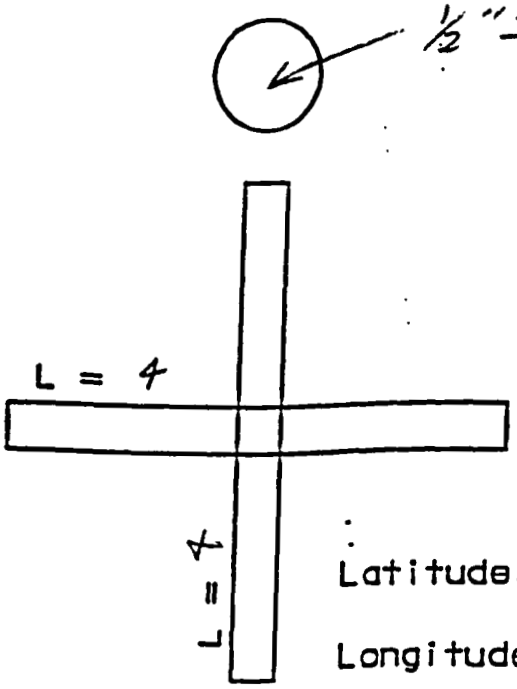
Panel Number: 306

USGS Quad: _____ Year Monumented: _____

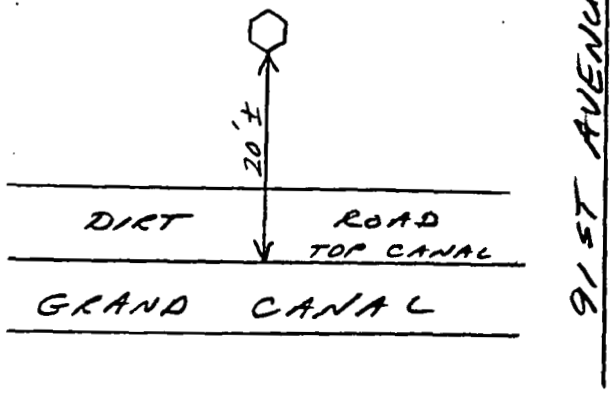
Described By: _____ Year Recovered: 8-11-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33°31'21" N

Longitude: 112°15'32" W

To Reach: From 91ST avenue, go west along the North side of Grand Canal 0.20 mile, across from P/P #75, 20± North of Top Bank of Canal

Entry Permit Required: Y___ N ✓

Monument Description: ½" I.R.

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

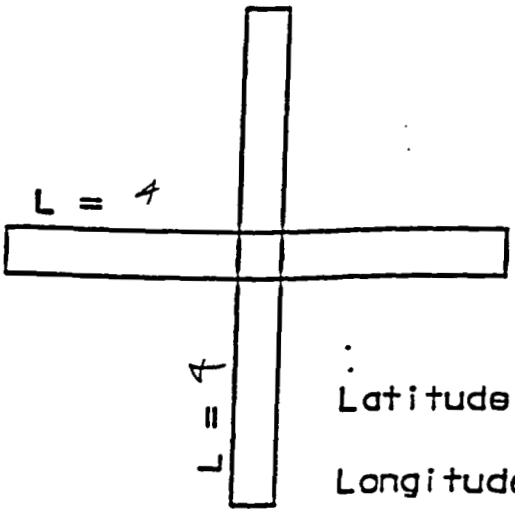
Panel Number: 316

USGS Quad: _____ Year Monumented: _____

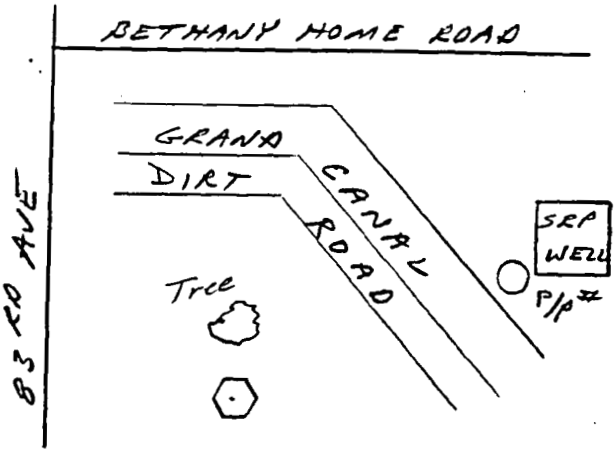
Described By: _____ Year Recovered: 8-11-99

State / County: Arizona Maricopa

Stamped 1/2" I.C.




Location Sketch




Latitude: 33° 31' 21" N

Longitude: 112° 14' 09" W

To Reach: From 83rd Avenue go east along the south side of the Grand Canal, 0.13 miles, then 300± West of Grand Canal

Entry Permit Required: Y ___ N ✓

Monument Description: 1/2" I.R.

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

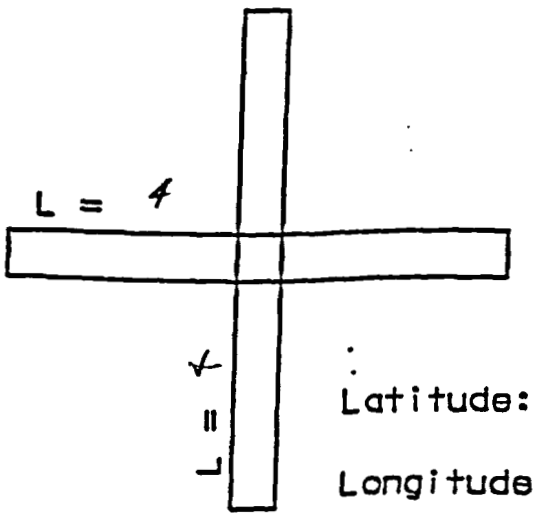
Panel Number: 307

USGS Quad: _____ Year Monumented: _____

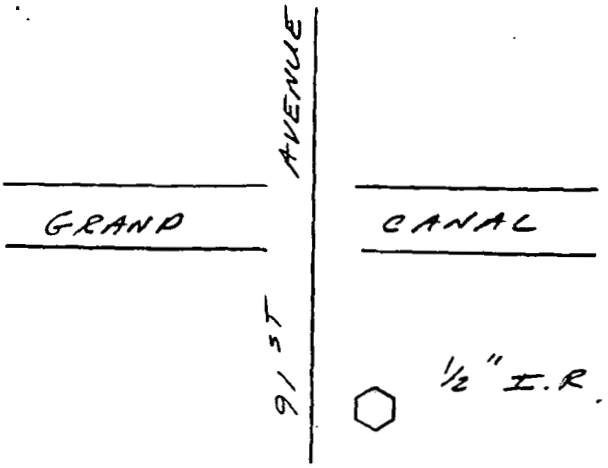
Described By: _____ Year Recovered: 8-11-99

State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 31' 20" N

Longitude: 112° 15' 18" W

To Reach: From 91ST Avenue go south of the Grand Canal 300± along the East side of 91ST AVE. Panel Point is ±5' east of curb

Entry Permit Required: Y___ N ✓

Monument Description: ½" I.R.

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

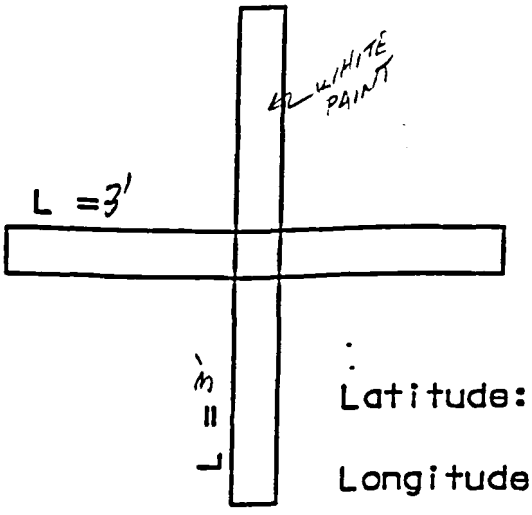
Panel Number: 310

USGS Quad: _____ Year Monumented: _____

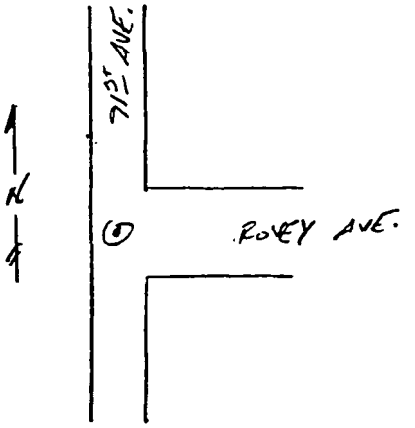
Described By: CAH Year Recovered: 07/27/95

State / County: MARICOPA _____

Stamped




Location Sketch




Latitude: 33°31'29" N

Longitude: 112°15'19" W

To Reach: _____

Entry Permit Required: Y___ N___

Monument Description: FCDMC BLF @ 91ST AVE & ROVEY AVE E OF INTERSECTION

_____

Signature Date

Collins/Pina
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

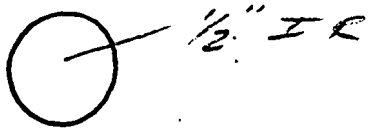
Panel Number: 313

USGS Quad: _____ Year Monumented: _____

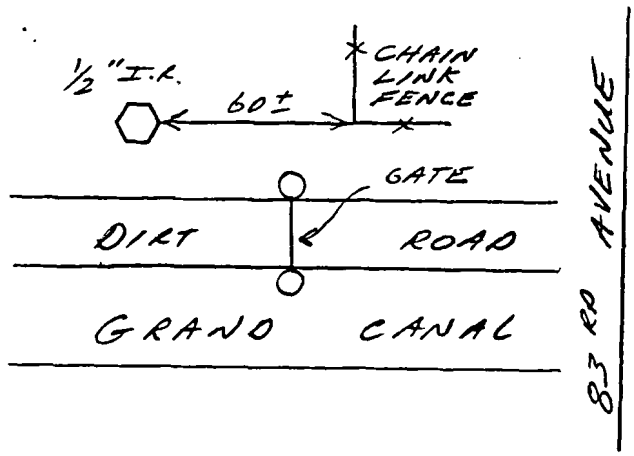
Described By: _____ Year Recovered: 8-11-99

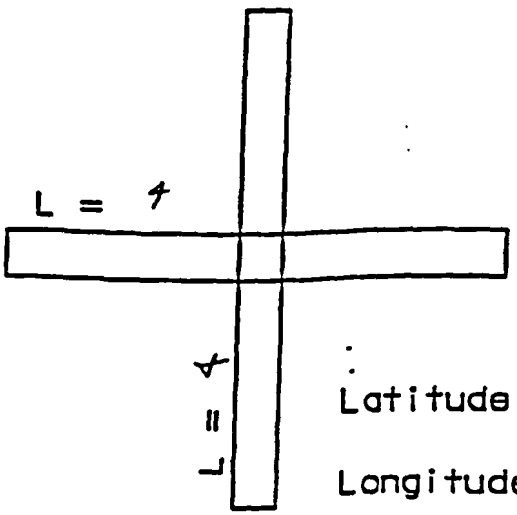
State / County: Arizona Maricopa

Stamped




Location Sketch




Latitude: 33° 31' 24" N

Longitude: 112° 14' 46" W

To Reach: From 83rd Avenue go west along the North side of the Grand Canal 0.50 miles

Entry Permit Required: Y___ N ✓

Monument Description: ½" I.R.

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# PANEL DATA SHEET

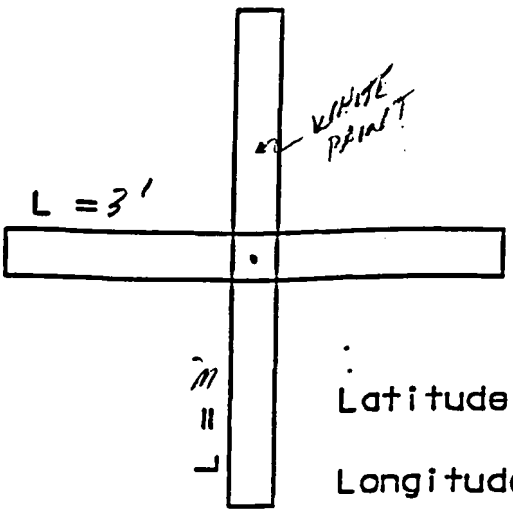
Panel Number: 311

USGS Quad: _____ Year Monumented: _____

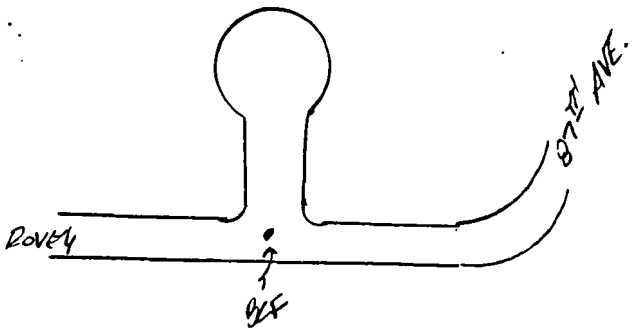
Described By: CAH Year Recovered: 1999

State / County: MARICOPA _____

Stamped




Location Sketch




Latitude: 33° 31' 27" N

Longitude: 112° 14' 51" W

To Reach: CITY OF GLENDALE BRASS CAP - FLUSH. @ ROVEY & 87TH AVE INTER. E.

Entry Permit Required: Y___ N X

Monument Description: _____

_____

Signature Date

Collins/Piña
Phoenix – Tucson – Nogales

# SEWER CATALOGING

## SEWER MANHOLE DATA SHEET

VERIFY DESCRIPTION, BOTTOM OF CITY PLANS

MANHOLE NUMBER: 7

MANHOLE DESCRIPTION – TYPE: Sanitary Sewer

SIZE: 2.5'

CONDITION: Good, in use

NORTHING _____

EASTING _____

RIM ELEVATION 1095.72

HORIZONTAL DATUM _____

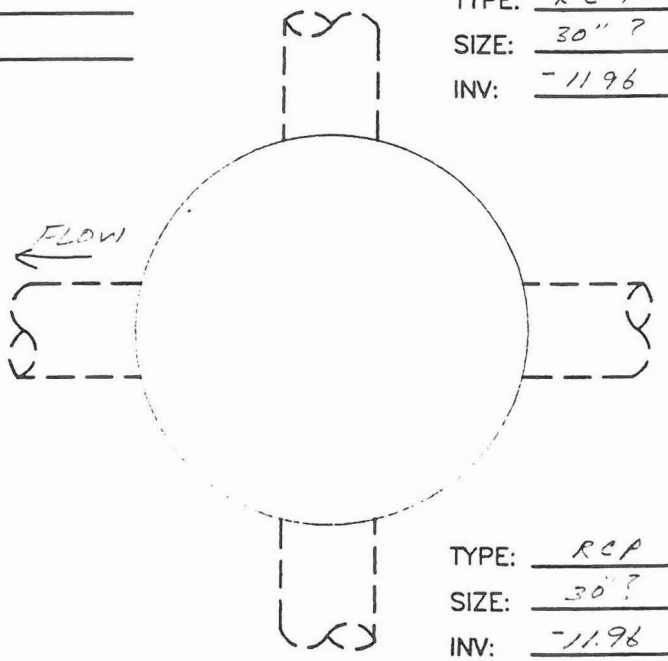
VERTICAL DATUM 050090 SKP 1097.0622

LAT. N: _____

LONG. W: _____

TYPE: RCP
SIZE: 30" ?
INV: -11.96

TYPE: RCP
SIZE: 48"
INV: -12.30




TYPE: RCP
SIZE: 48"
INV: -12.30

TYPE: RCP
SIZE: 30" ?
INV: -11.96

LOCATION: From the North East corner of Section 23 : 25' EAST, 6' NORTH

DESCRIBED BY: Dwayne Lee Haught

DATE RECOVERED: 8-29-99


Collins Piña Consulting Engineers, Inc.
40 E. VIRGINIA AVENUE SUITE 200 PHOENIX AZ 85004 - 602.264.7505

# SEWER CATALOGING

## SEWER MANHOLE DATA SHEET

MANHOLE NUMBER: 8

MANHOLE DESCRIPTION – TYPE: Sanitary Sewer

SIZE: 2.5'

CONDITION: Good, in use

NORTHING _____

EASTING _____

RIM ELEVATION 1095.99

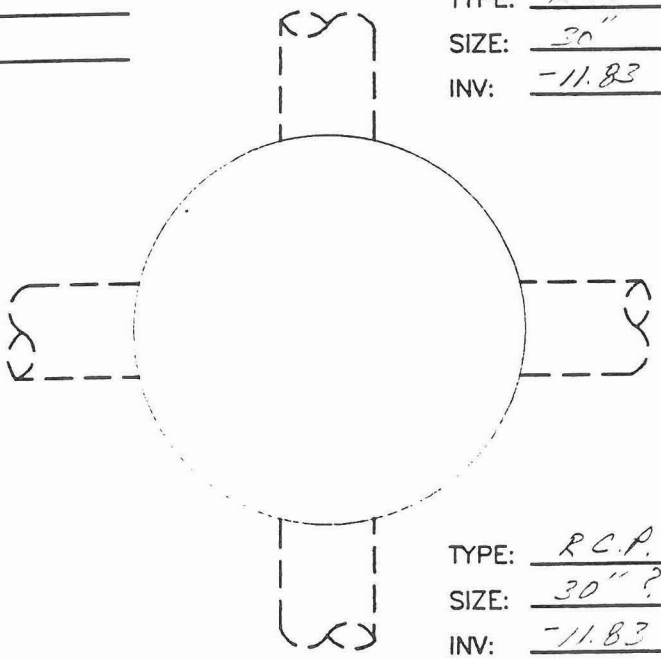
HORIZONTAL DATUM _____

0500 90 SRP

VERTICAL DATUM 1097.0622

LAT. N: _____

LONG. W: _____



TYPE: RCP
SIZE: 30"
INV: -11.83

TYPE: _____
SIZE: _____
INV: _____

TYPE: PVC
SIZE: 18" ?
INV: -11.86

TYPE: R.C.P.
SIZE: 30" ?
INV: -11.83

LOCATION: From the northeast corner of section 23: 25' East, 20' North

DESCRIBED BY: Dwayne Lee Hayworth DATE RECOVERED: 8-29-99

Coffin Pina Consulting Engineers, Inc.
40 E. VIRGINIA AVENUE SUITE 200 PHOENIX AZ 85004 - 602.264.7505

# SEWER CATALOGING

## SEWER MANHOLE DATA SHEET

VERIFY DIST., TYPE, AND SIZE PER CITY PLANS

MANHOLE NUMBER: 9

MANHOLE DESCRIPTION – TYPE: Sanitary Sewer

SIZE: 2.0'

CONDITION: Good, in use

NORTHING _____

EASTING _____

RIM ELEVATION 1095.58

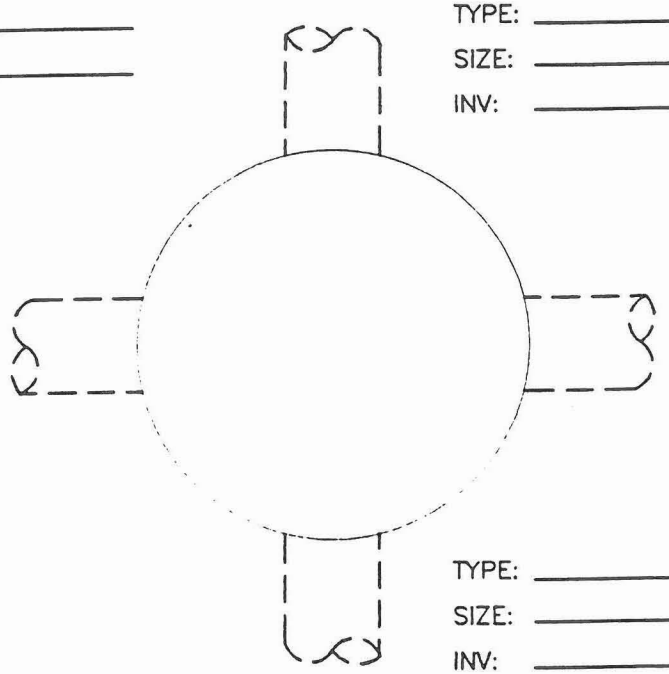
HORIZONTAL DATUM _____

050090 SRP

VERTICAL DATUM 1097 0622

LAT. N: _____

LONG. W: _____



TYPE: _____
SIZE: _____
INV: _____

TYPE: R.C.P.
SIZE: 30"?
INV: -12.35

TYPE: R.C.P.
SIZE: 30"
INV: -12.35

TYPE: _____
SIZE: _____
INV: _____

LOCATION: From the Northeast corner of section 23: 5' west, 6' north

DESCRIBED BY: Dwayne Lee Haverst DATE RECOVERED: 8-29-99

Coffins Pina Consulting Engineers, Inc.
40 E. VIRGINIA AVENUE SUITE 200 PHOENIX AZ 85004 - 602.264.7505

# SEWER CATALOGING

VERIFY DEPTH, TYPE & SIZE FROM CITY PLANS

## SEWER MANHOLE DATA SHEET

MANHOLE NUMBER: 10

MANHOLE DESCRIPTION – TYPE: Storm Drain

SIZE: 2.5

CONDITION: good, in use

NORTHING _____

EASTING _____

RIM ELEVATION 1094.80

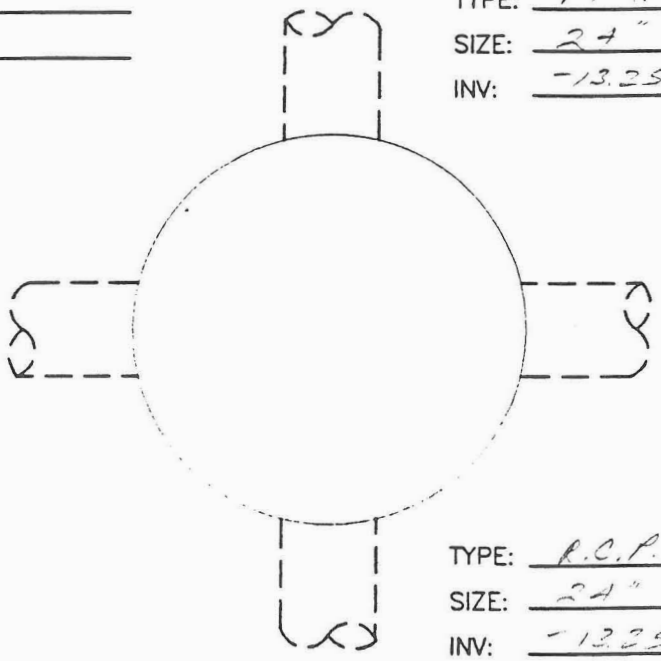
HORIZONTAL DATUM _____

050090 SRP

VERTICAL DATUM 1097 0622

LAT. N: _____

LONG. W: _____



TYPE: R.C.P.
SIZE: 24"
INV: -13.35

TYPE: _____
SIZE: _____
INV: _____

TYPE: _____
SIZE: _____
INV: _____

TYPE: R.C.P.
SIZE: 24"
INV: -13.35

LOCATION: From the Northeast corner of section 23: 3' East, 46' South

DESCRIBED BY: Dwayne Lee Haight DATE RECOVERED: 8-29-99

Collins Piña Consulting Engineers, Inc.
40 E. VIRGINIA AVENUE SUITE 200 PHOENIX AZ 85004 - 602.264.7505

# SEWER CATALOGING

VERIFY DESC., TYPE, [illegible] CITY PLANS

## SEWER MANHOLE DATA SHEET

MANHOLE NUMBER: 11

MANHOLE DESCRIPTION – TYPE: Sanitary Sewer

SIZE: 2.0'

CONDITION: unknown, See City Plans

NORTHING _____

EASTING _____

RIM ELEVATION 1094.36

HORIZONTAL DATUM _____

050090 SRP

VERTICAL DATUM 1097.0622

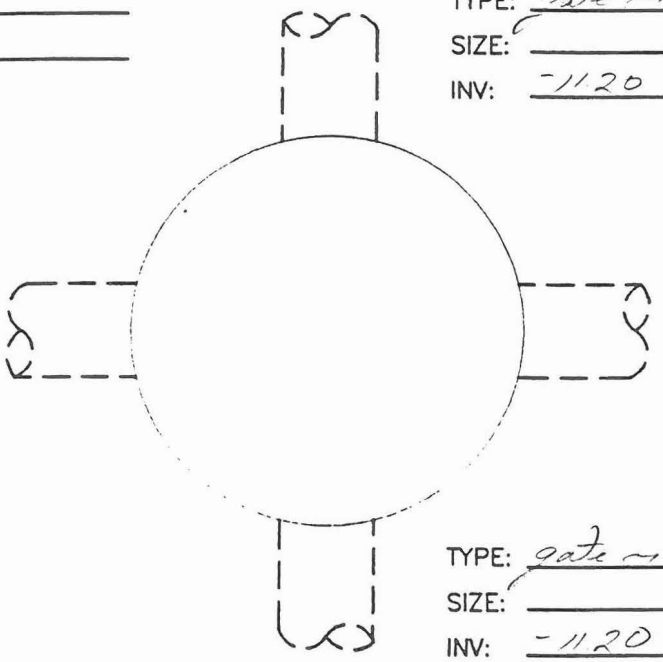
LAT. N: _____

LONG. W: _____

TYPE: gate or box

SIZE: _____

INV: -11.20



TYPE: _____

SIZE: _____

INV: _____

TYPE: _____

SIZE: _____

INV: _____

TYPE: gate or box

SIZE: _____

INV: -11.20

LOCATION: From the Northeast corner section 23: 7' West, 64' South

DESCRIBED BY: Dwayne Lee Haight

DATE RECOVERED: 8-29-99

Collins Piña Consulting Engineers, Inc.
40 E. VIRGINIA AVENUE SUITE 200 PHOENIX AZ 85004 - 602.264.7505

# SEWER CATALOGING

## SEWER MANHOLE DATA SHEET

VERIFY DESC, TYPE, & SIZE per City Plans

MANHOLE NUMBER: 12

MANHOLE DESCRIPTION – TYPE: Storm Drain

SIZE: 2.5' See City Plans

CONDITION: unknown

NORTHING _____ HORIZONTAL DATUM _____

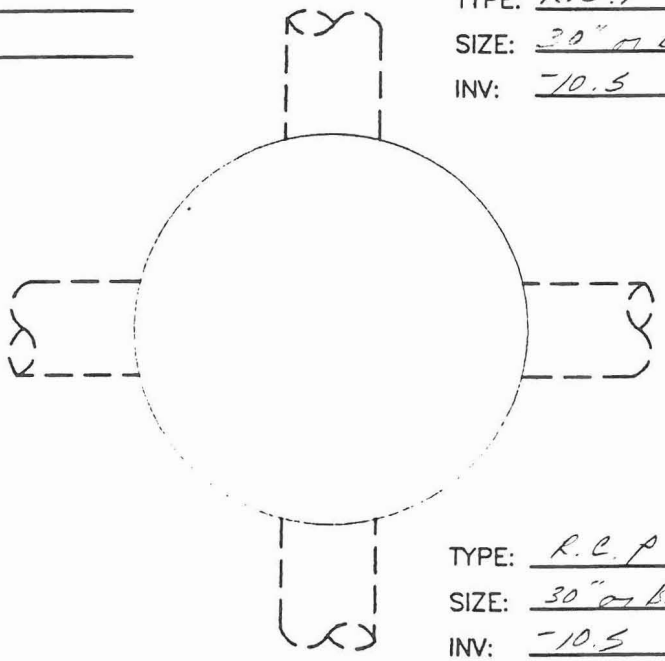
EASTING _____ 050090 SEP

RIM ELEVATION 1094.60 VERTICAL DATUM 1097.0622

LAT. N: _____

LONG. W: _____

TYPE: R.C.P ?
SIZE: 30" or Box ?
INV: -10.5



TYPE: _____
SIZE: _____
INV: _____

TYPE: _____
SIZE: _____
INV: _____

TYPE: R.C.P ?
SIZE: 30" or Box ?
INV: -10.5

LOCATION: From the Northeast corner of section 23:
24' East 60' South

DESCRIBED BY: Dwayne Lee Haycock DATE RECOVERED: 8-29-99

Coffin Pina Consulting Engineers, Inc.
40 E. VIRGINIA AVENUE SUITE 200 PHOENIX AZ 85004 - 602.264.7505

# SEWER CATALOGING

## SEWER MANHOLE DATA SHEET

Verify Desc. Type, & Size per City Plans

MANHOLE NUMBER: 13

MANHOLE DESCRIPTION – TYPE: Sewer ?

SIZE: 2.5'

CONDITION: Abandon ?

NORTHING _____

EASTING _____

RIM ELEVATION 1094.81

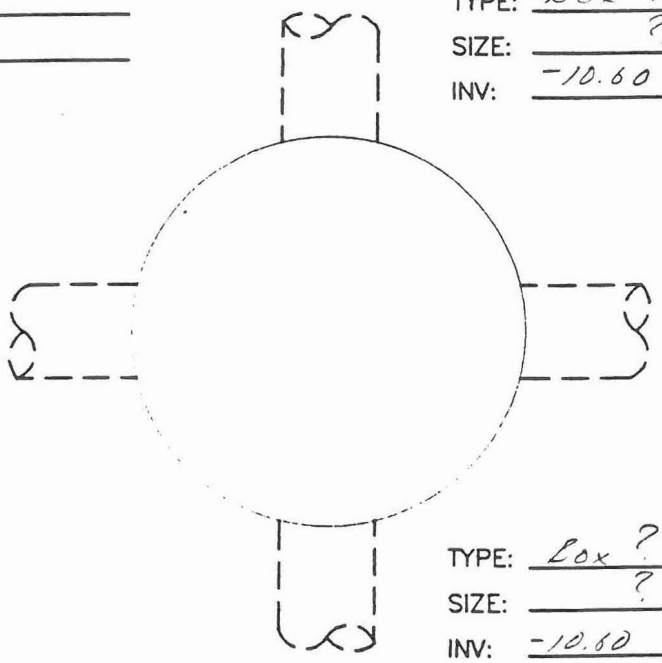
HORIZONTAL DATUM _____

050090 SCP

VERTICAL DATUM 1097.0622

LAT. N: _____

LONG. W: _____



TYPE: Box ?
SIZE: ?
INV: -10.60

TYPE: _____
SIZE: _____
INV: _____

TYPE: _____
SIZE: _____
INV: _____

TYPE: Box ?
SIZE: ?
INV: -10.60

LOCATION: From the Northeast corner of section 23: 23' East, 45' South

DESCRIBED BY: Dwayne Lee Kaynor DATE RECOVERED: 8-29-99

Coffins Pina Consulting Engineers, Inc.
40 E. VIRGINIA AVENUE SUITE 200 PHOENIX AZ 85004 - 602.264.7505

# SEWER CATALOGING

## SEWER MANHOLE DATA SHEET

MANHOLE NUMBER: 14

MANHOLE DESCRIPTION – TYPE: SRP

SIZE: 2 5'

CONDITION: Bolted Shut

NORTHING _____

EASTING _____

RIM ELEVATION 1095.82

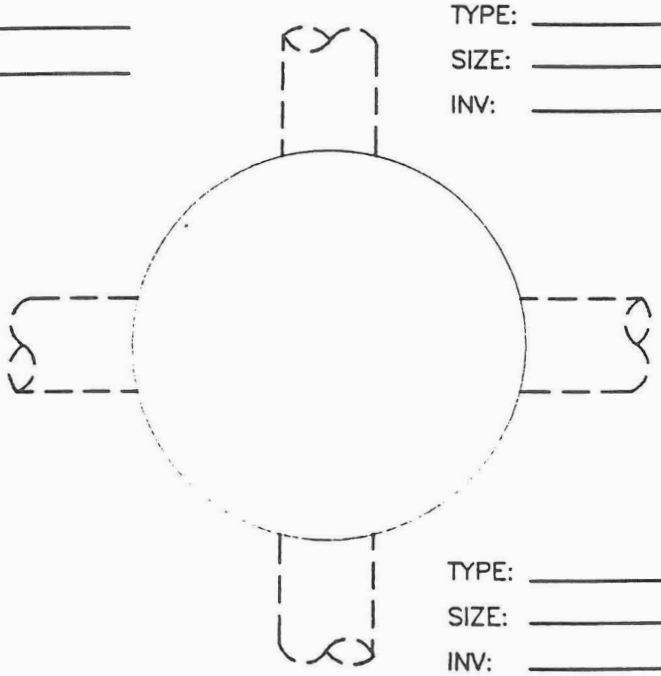
HORIZONTAL DATUM _____

0500 90 SRP

VERTICAL DATUM 1097.0622

LAT. N: _____

LONG. W: _____



TYPE: _____
SIZE: _____
INV: _____

TYPE: _____
SIZE: _____
INV: _____

TYPE: _____
SIZE: _____
INV: _____

TYPE: _____
SIZE: _____
INV: _____

LOCATION: From the Northeast corner section 23:
64' East, 23' North

DESCRIBED BY: Dwayne Lee Kaigler DATE RECOVERED: 8-29-99

Collins Piña Consulting Engineers, Inc.
40 E. VIRGINIA AVENUE SUITE 200 PHOENIX AZ 85004 - 602.264.7505

# SEWER CATALOGING

## SEWER MANHOLE DATA SHEET

MANHOLE NUMBER: 15

MANHOLE DESCRIPTION – TYPE: SRP

SIZE: 2.0'

CONDITION: good, in use

NORTHING _____

EASTING _____

RIM ELEVATION 1095.64

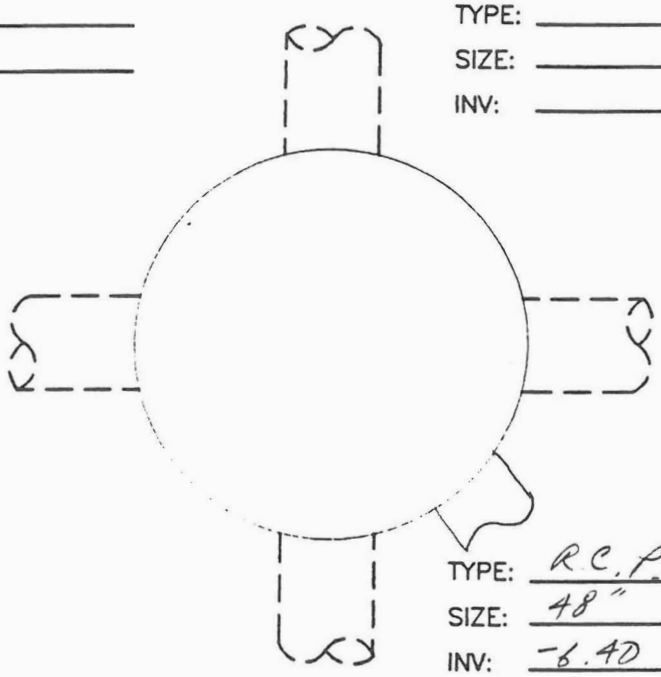
HORIZONTAL DATUM _____

050090 SRP

VERTICAL DATUM 1097.0622

LAT. N: _____

LONG. W: _____



TYPE: _____
SIZE: _____
INV: _____

TYPE: R.C.P.
SIZE: 48"
INV: _____

TYPE: _____
SIZE: _____
INV: _____

TYPE: R.C.P.
SIZE: 48"
INV: -6.40

LOCATION: From the Northeast corner of section 23: 100' East, 20' south

DESCRIBED BY: Dwayne Lee Knight DATE RECOVERED: 8-29-99

Coffins Piña Consulting Engineers, Inc.
40 E. VIRGINIA AVENUE SUITE 200 PHOENIX AZ 85004 - 602.264.7505

# SEWER CATALOGING

## SEWER MANHOLE DATA SHEET

MANHOLE NUMBER: 16

MANHOLE DESCRIPTION – TYPE: STORM DRAIN

SIZE: 2.6

CONDITION: GOOD, IN USE

NORTHING _____ HORIZONTAL DATUM _____

EASTING _____

RIM ELEVATION _____ VERTICAL DATUM _____

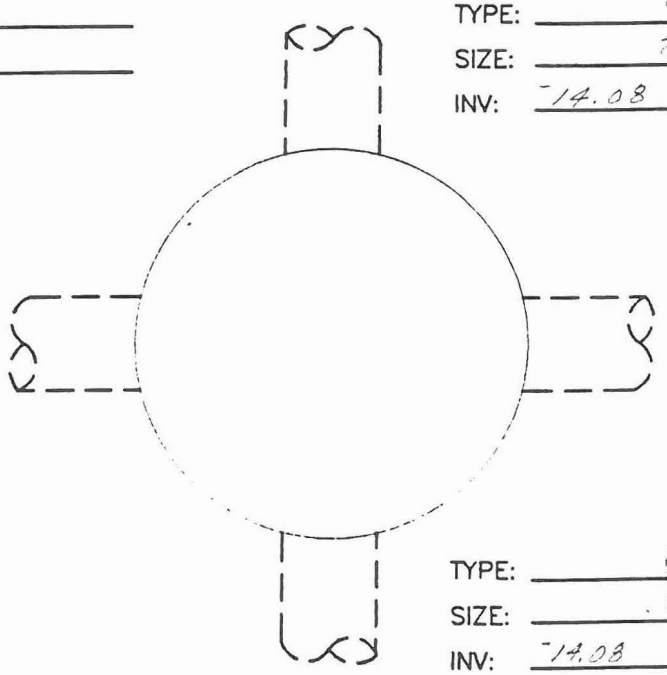
LAT. N: _____

LONG. W: _____

TYPE: ?

SIZE: ?

INV: -14.08



TYPE: _____

SIZE: _____

INV: _____

TYPE: _____

SIZE: _____

INV: _____

TYPE: ?

SIZE: ?

INV: -14.08

LOCATION: From the centerline intersection of 67TH Avenue & 66TH Drive 3.5 south, 2.8 West

DESCRIBED BY: Durayne Lee Hayes DATE RECOVERED: 8-31-99

Collins Piña Consulting Engineers, Inc.
40 E. VIRGINIA AVENUE SUITE 200 PHOENIX AZ 85004 - 602.264.7505

# SEWER CATALOGING

## SEWER MANHOLE DATA SHEET

MANHOLE NUMBER: 17

MANHOLE DESCRIPTION – TYPE: STORM DRAIN

SIZE: 2.6

CONDITION: good, in use

NORTHING _____ HORIZONTAL DATUM _____

EASTING _____

RIM ELEVATION _____ VERTICAL DATUM _____

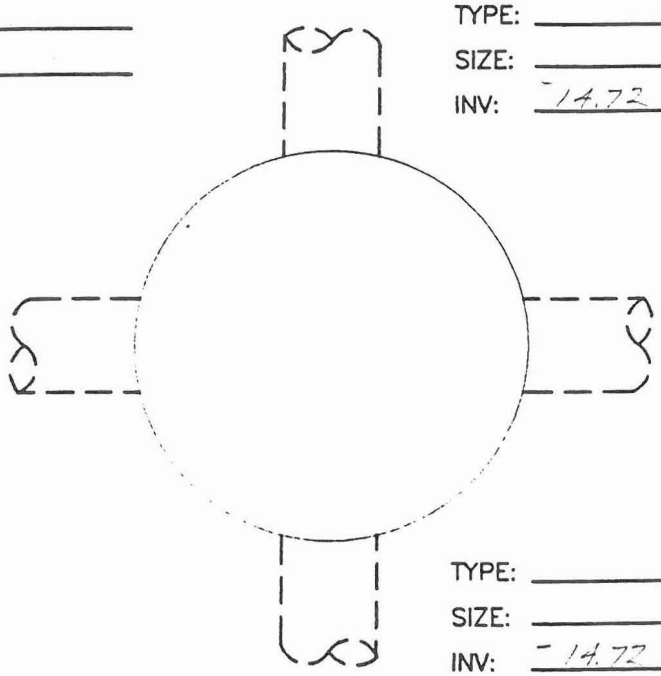
LAT. N: _____

LONG. W: _____

TYPE: ?

SIZE: ?

INV: -14.72



TYPE: _____

SIZE: _____

INV: _____

TYPE: _____

SIZE: _____

INV: _____

TYPE: ?

SIZE: ?

INV: -14.72

LOCATION: From the brass cap @ 57TH Avenue & Heatherbrae 3' West & 72 South

DESCRIBED BY: [illegible] DATE RECOVERED: 8-31-99

Collins Piña Consulting Engineers, Inc.

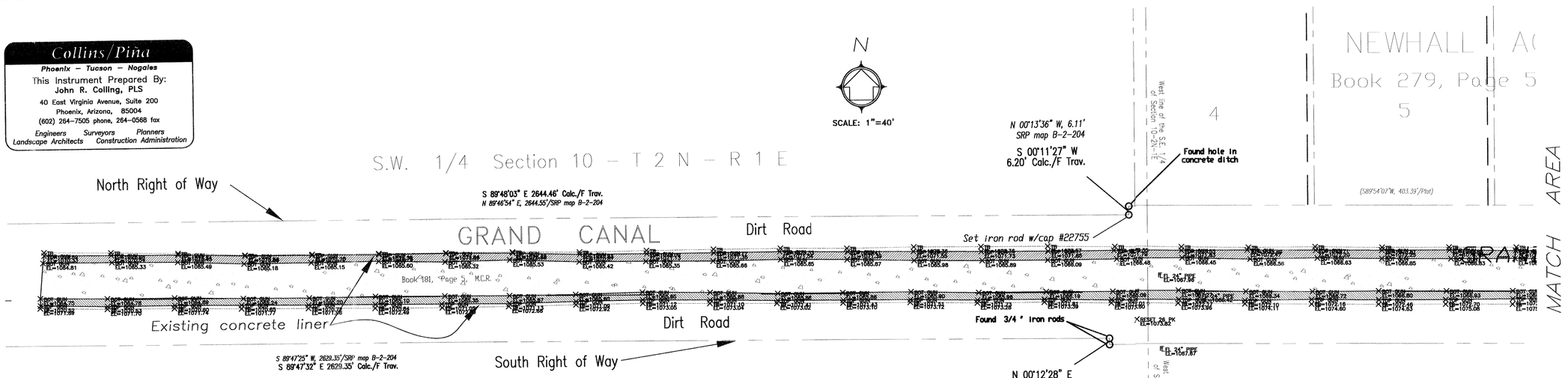
40 E. VIRGINIA AVENUE SUITE 200 PHOENIX AZ 85004 - 602.284.7505

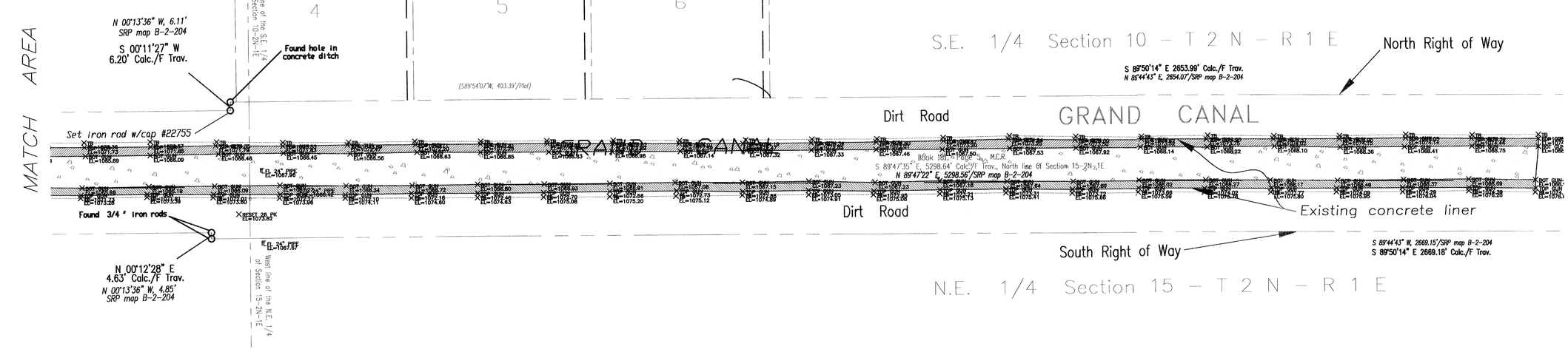
**Collins/Piña**

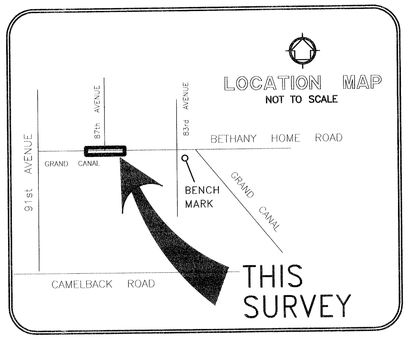
*Phoenix – Tucson – Nogales*

This Instrument Prepared By:
**John R. Colling, PLS**
40 East Virginia Avenue, Suite 200
Phoenix, Arizona, 85004
(602) 264-7505 phone, 264-0568 fax

*Engineers Surveyors Planners*
*Landscape Architects Construction Administration*


## NOTES:

1. Use of the information contained in this instrument for other than the specific purpose for which it was intended is forbidden unless expressly permitted in writing by Collins/Pina Consulting Engineers, Inc., and Collins/Pina Consulting Engineers, Inc. shall have no liability to any person or entity for any use of this information without their written consent. The original instrument signed and sealed by a registered professional shall take precedence over any similar instrument not signed and sealed, including computer storage medium. Any reproductions in whole or in part shall bear or refer to this signature and seal.
2. Lands shown hereon were not abstracted by Collins/Pina Consulting Engineers, Inc. for easements and/or rights of way of record.
3. The certification shown hereon does not extend to any unnamed party. The use of the word "Certify" or "Certification" by a licensed professional civil engineer or land surveyor in the practice of professional engineering or land surveying or the preparation of maps, plats, reports, descriptions or other surveying documents only constitutes an expression of professional opinion regarding those facts or findings which are the subject of the certification and does not constitute a warranty or guarantee either expressed or implied.
4. Bearings are based on the North line of Section 15, Township 2 N, Range 2 East, said North line having a bearing of South 89°47'35" East.
5. This is an above-ground survey and locations are limited to visible improvements only. Underground utilities, if shown, are based on information provided by the various utility companies and these locations may vary and therefore be considered approximate. There may be additional underground utilities not shown on this drawing. No excavations were made to locate buried utilities.
6. Elevations refer to Salt River Project, Bench Mark "4.0E10.0N", having an elevation of 1088.75', referenced to National Geodetic Vertical Datum of 1929.

## LEGEND

M.C.R. = Maricopa County Records
SRP = Salt River Project

## CERTIFIED TO:

Maricopa County Flood Control District

## CERTIFICATION:

I HEREBY CERTIFY that the attached As-Built Survey is based on a field survey made by Collins/Piña Consulting Engineers, Inc. and is true and correct to the best of my knowledge and belief and that it meets the applicable Minimum Standards for Arizona Land Surveys.

22755 JOHN R. COLLING — PROFESSIONAL LAND SURVEYOR — ARIZONA, U.S.A.

JOHN R. COLLING, PLS
Professional Land Surveyor No. 22755, State of Arizona

| Rev. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 1 | MATCH AREA | | |


**Collins/Piña**
*Phoenix – Tucson – Nogales*
*Engineers . Surveyors . Planners . Landscape Architects . Construction Administration*
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270 West View Point Dr., Nogales, Arizona 85621, (520) 281-2705 phone, 281-2706 fax


Field Book/Page 4144/107 #108

DRAWN JRC | DESIGNED JRC | CHECKED | SURVEY DATE 05/15/2000

OUTFALL CHANNEL AS-BUILT
Maricopa County Flood Control Contract 98-46

RESULTS OF SURVEY
Salt River Project Grand Canal

SCALE 1" = 40'

PROJECT NO. 4144.001

SHEET 1 of 1

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