

COURSE NO. 4 (A16)----- (C87)

| NO. | B         | A         | S<br>(M) | X<br>(M)  | Y<br>(M)   | C.A       | C.S<br>(M) |
|-----|-----------|-----------|----------|-----------|------------|-----------|------------|
| A15 |           | 70-45-19  |          |           |            |           |            |
| A16 | 222-14-20 | 292-59-38 | 23.629   | 32378.532 | -41770.078 | 292-59-33 | 23.630     |
| C88 | 256-02-42 | 9-02-19   | 58.195   | 32387.762 | -41791.831 | 9-02-07   | 58.194     |
| C87 | 176-51-07 | 5-53-20   |          | 32445.235 | -41782.692 |           |            |

| SIGM    | SIGM                          | SIGM      | SIGM      |
|---------|-------------------------------|-----------|-----------|
| CAL---- | DA= 2 H=1/ 16665 S= 81.824    | DX= 0.000 | DY= 0.005 |
|         |                               | DS= 0.004 |           |
| LIMIT-- | DA= 107 H=1/ 3000 DS= 0.16157 |           |           |

\*\*\* END \*\*\*

|          |        |               |    |           |        |           |           |          |          |          |          |           |            |        |
|----------|--------|---------------|----|-----------|--------|-----------|-----------|----------|----------|----------|----------|-----------|------------|--------|
| 多角測量点計算書 |        | 路線名           |    | C-62      |        | 角の閉合差     |           | -0-00-17 |          | (C-62)   |          |           |            |        |
| 測点       |        | B142-1 から C82 |    | 実測精度      |        | 1 / 7210  |           | 距離の和     |          | 126.124  |          |           |            |        |
| 測角点      | 方向点    | 測角            | 補正 | 方向角       | 距離     | COS       | SIN       | ΔX       | ΔY       | εX       | εY       | X         | Y          | 測点     |
| B142     | B142-1 |               |    | 175-16-16 |        |           |           |          |          |          |          | 32569.506 | -41851.926 | B142-1 |
| B142-1   | C89    | 285-02-28     | 6  | 280-18-50 | 65.205 | 0.179041  | -0.983842 | 11.674   | -64.151  | -8       | -5       | 32581.172 | -41916.082 | C89    |
| C89      | C82    | 172-07-02     | 5  | 272-25-57 | 60.919 | 0.042442  | -0.999099 | 2.586    | -60.864  | -7       | -4       | 32583.751 | -41976.950 | C82    |
| C82      | A19    | 280-19-12     | 6  | 12-45-15  |        |           |           |          |          |          |          |           |            |        |
| 観測方向角    |        | 12-44-58      |    |           |        | ΔX, ΔY 合計 |           | 14.260   | -125.015 |          |          | 32583.751 | -41976.950 | C82    |
| 既知方向角    |        | 12-45-15      |    | 距離合計      |        | 126.124   |           | ΔX, ΔY   |          | 14.245   | -125.024 |           |            |        |
| 測角誤差     |        | -0-00-17      |    |           |        | 閉合差       |           | 0.015    | 0.009    | 0.017493 |          | 32569.506 | -41851.926 | B142-1 |
| 配布点数     |        | 3             |    |           |        | 配布点数      |           | 2        |          |          |          |           |            |        |

[illegible]

(C.64~C.6P)

| TYPE | H     | 1 | 2         | 3   | 4         | 5   |
|------|-------|---|-----------|-----|-----------|-----|
|      |       |   |           | (M) |           | (M) |
| 17 1 | MA= 2 |   | MX= 0.003 |     | MY= 0.002 |     |
| 17 2 | MA= 2 |   | MX= 0.004 |     | MY= 0.002 |     |

ホウヨウカタノセイゲン ..... 20 + 50.0 n  
サニョウノセイゲン ..... 15.0+ 10.0 N+S  
ジョクジャクケイスウ ..... 1.000000

DATE 88/04/16



## ADJUSTMENTS OF THE TRAVERSINGS

PAGE. 2

路線名 (C-64)

COURSE NO. 1 (A11) ----- (C94)

| NO. | B         | A         | S<br>(M) | X<br>(M)  | Y<br>(M)   | C.A      | C.S<br>(M) |
|-----|-----------|-----------|----------|-----------|------------|----------|------------|
| A12 |           | 246-42-21 |          |           |            |          |            |
| A11 | 181-33-45 | 68-16-00  | 52.849   | 32326.467 | -42144.944 | 68-15-52 | 52.851     |
| C92 | 184-20-00 | 72-35-54  | 63.371   | 32346.039 | -42095.850 | 72-35-45 | 63.373     |
| C93 | 183-42-23 | 76-18-11  | 51.658   | 32364.995 | -42035.378 | 76-18-02 | 51.660     |
| C94 | 93-11-25  | 349-29-30 |          | 32377.229 | -41985.188 |          |            |

| SIGM    |                   | SIGM       |  | SIGM        | SIGM      |
|---------|-------------------|------------|--|-------------|-----------|
| CAL---- | DA= 24 H=1/ 17275 | S= 167.878 |  | DX=-0.009   | DY=-0.004 |
|         |                   |            |  | DS= 0.010   |           |
| LIMIT-- | DA= 120 H=1/ 3000 |            |  | DS= 0.17908 |           |

COURSE NO. 2 (A17 )----- (C94 )

| NO. | B         | A         | S<br>(M) | X<br>(M)  | Y<br>(M)   | C.A       | C.S<br>(M) |
|-----|-----------|-----------|----------|-----------|------------|-----------|------------|
| A16 |           | 92-37-09  |          |           |            |           |            |
| A17 | 169-46-25 | 262-23-35 | 62.696   | 32385.529 | -41923.041 | 262-23-35 | 62.699     |
| C94 | 267-05-55 | 349-29-30 |          | 32377.229 | -41985.188 |           |            |

| SIGM    |                   | SIGM |        | SIGM        |           | SIGM |  |
|---------|-------------------|------|--------|-------------|-----------|------|--|
| CAL---- | DA= -1 H=1/ 22257 | S=   | 62.696 | DX= 0.000   | DY= 0.003 |      |  |
|         |                   |      |        | DS= 0.003   |           |      |  |
| LIMIT-- | DA= 91 H=1/ 3000  |      |        | DS= 0.15627 |           |      |  |

## ADJUSTMENTS OF THE TRAVERSINGS

PAGE. 4

路線名 (C-66)

COURSE NO. 3 (B140 )----- (C97 )

| NO.  | B         | A         | S<br>(M) | X<br>(M)  | Y<br>(M)   | C.A      | C.S<br>(M) |
|------|-----------|-----------|----------|-----------|------------|----------|------------|
| B141 |           | 346-16-37 |          |           |            |          |            |
| B140 | 84-47-48  | 71-04-24  | 37.776   | 32380.518 | -42144.173 | 71-04-37 | 37.776     |
| C95  | 175-40-43 | 66-45-05  | 44.709   | 32392.769 | -42108.438 | 66-45-19 | 44.709     |
| C96  | 198-29-28 | 85-14-32  | 75.116   | 32410.414 | -42067.358 | 85-14-44 | 75.118     |
| C97  | 178-18-30 | 83-33-00  |          | 32416.640 | -41992.499 |          |            |

| SIGM    |                   | SIGM       |             | SIGM      | SIGM |
|---------|-------------------|------------|-------------|-----------|------|
| CAL---- | DA= 6 H=1/ 15093  | S= 157.601 | DX= 0.009   | DY=-0.005 |      |
| LIMIT-- | DA= 120 H=1/ 3000 |            | DS= 0.010   |           |      |
|         |                   |            | DS= 0.17730 |           |      |

COURSE NO. 4 (B147 )----- (C97 )

| NO.  | B         | A         | S<br>(M) | X<br>(M)  | Y<br>(M)   | C.A       | C.S<br>(M) |
|------|-----------|-----------|----------|-----------|------------|-----------|------------|
| B146 |           | 195-57-22 |          |           |            |           |            |
| B147 | 76-04-20  | 272-01-49 | 61.026   | 32421.847 | -41866.315 | 272-01-51 | 61.027     |
| C98  | 171-31-05 | 263-33-00 | 65.610   | 32424.010 | -41927.303 | 263-33-03 | 65.611     |
| C97  | 360-00-00 | 83-33-07  |          | 32416.640 | -41992.499 |           |            |

| SIGM    | SIGM                          | SIGM      | SIGM        |
|---------|-------------------------------|-----------|-------------|
| CAL---- | DA= -13 H=1/ 68944 S= 126.636 | DX=-0.001 | DY= 0.001   |
| LIMIT-- | DA= 91 H=1/ 3000              | DS= 0.002 | DS= 0.16791 |

COURSE NO. 5 (C94 )----- (C97 )

| NO. | B         | A         | S<br>(M) | X<br>(M)  | Y<br>(M)   | C.A       | C.S<br>(M) |
|-----|-----------|-----------|----------|-----------|------------|-----------|------------|
| C93 |           | 349-29-30 |          |           |            |           |            |
| C94 | 0-00-00   | 349-29-30 | 40.081   | 32377.229 | -41985.188 | 349-29-28 | 40.083     |
| C97 | 274-03-40 | 83-33-05  |          | 32416.640 | -41992.499 |           |            |

| SIGM    |                             | SIGM |  | SIGM                   | SIGM      |
|---------|-----------------------------|------|--|------------------------|-----------|
| CAL---- | DA= 10 H=1/ 19042 S= 40.081 |      |  | DX=-0.002<br>DS= 0.002 | DY= 0.001 |
| LIMIT-- | DA= 91 H=1/ 3000            |      |  | DS= 0.15401            |           |

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|          |      |           |    |                  |        |           |          |                |         |          |         |           |            |      |
|----------|------|-----------|----|------------------|--------|-----------|----------|----------------|---------|----------|---------|-----------|------------|------|
| 多角測量点計算書 |      | 路線名       |    | C-69             |        | 角の閉合差     |          | 0-00-03        |         | (C-69)   |         |           |            |      |
|          |      | 測点        |    | A15      カラ B153 |        | 実測精度      |          | 1 /      43533 |         | 距離の和     |         | 156.981   |            |      |
| 測角点      | 方向点  | 測角        | 補正 | 方向角              | 距離     | COS       | SIN      | ΔX             | ΔY      | εX       | εY      | X         | Y          | 測点   |
| A16      | A15  |           |    | 70-45-19         |        |           |          |                |         |          |         | 32418.259 | -41656.284 | A15  |
| A15      | C99  | 192-30-50 | -1 | 83-16-08         | 36.345 | 0.117210  | 0.993107 | 4.260          | 36.094  | -1       | 0       | 32422.518 | -41620.190 | C99  |
| C99      | C100 | 85-02-48  | 0  | 348-18-56        | 36.313 | 0.979278  | 0.202521 | 35.561         | -7.354  | -1       | -1      | 32458.078 | -41627.545 | C100 |
| C100     | C101 | 106-51-23 | -1 | 275-10-18        | 57.776 | 0.090140  | 0.995929 | 5.208          | -57.541 | -1       | -1      | 32463.285 | -41685.087 | C101 |
| C101     | B153 | 94-28-13  | 0  | 189-38-31        | 26.547 | 0.985874  | 0.167491 | -26.172        | -4.446  | 0        | 0       | 32437.113 | -41689.533 | B153 |
| B153     | B152 | 191-16-27 | -1 | 200-54-57        |        |           |          |                |         |          |         |           |            |      |
| 観測方向角    |      | 200-55-00 |    |                  |        | ΔX, ΔY 合計 |          | 18.857         | -33.247 |          |         | 32437.113 | -41689.533 | B153 |
| 既知方向角    |      | 200-54-57 |    | 距離合計             |        | 156.981   |          | ΔX, ΔY         |         | 18.854   | -33.249 |           |            |      |
| 測角誤差     |      | 0-00-03   |    |                  |        | 閉合差       |          | 0.003          | 0.002   | 0.003606 |         | 32418.259 | -41656.284 | A15  |
| 配布点数     |      | 5         |    |                  |        | 配布点数      |          | 4              |         |          |         |           |            |      |

|          |      |           |    |           |        |           |          |           |         |          |         |           |            |      |
|----------|------|-----------|----|-----------|--------|-----------|----------|-----------|---------|----------|---------|-----------|------------|------|
| 多角測量点計算書 |      | 路線名       |    | C-70      |        | 角の閉合差     |          | -0-00-04、 |         | (C-70)   |         |           |            |      |
| 測点       |      | B159      |    | カラ B165   |        | 実測精度      |          | 1 / 22198 |         | 距離の和     |         | 204.663   |            |      |
| 測角点      | 方向点  | 測角        | 補正 | 方向角       | 距離     | COS       | SIN      | ΔX        | ΔY      | εX       | εY      | X         | Y          | 測点   |
| B158     | B159 |           |    | 146-20-52 |        |           |          |           |         |          |         | 32296.057 | -42042.787 | B159 |
| B159     | C102 | 100-03-10 | 1  | 66-24-03  | 49.845 | 0.400336  | 0.916369 | 19.955    | 45.676  | 1        | 2       | 32316.013 | -41997.109 | C102 |
| C102     | C103 | 188-20-08 | 1  | 74-44-12  | 46.103 | 0.263256  | 0.964726 | 12.137    | 44.477  | 1        | 1       | 32328.151 | -41952.631 | C103 |
| C103     | C104 | 279-09-10 | 0  | 173-53-22 | 47.062 | -0.994318 | 0.106447 | -46.795   | 5.010   | 2        | 2       | 32281.358 | -41947.619 | C104 |
| C104     | B165 | 85-22-58  | 1  | 79-16-21  | 61.653 | 0.186138  | 0.982524 | 11.476    | 60.576  | 2        | 2       | 32292.836 | -41887.041 | B165 |
| B165     | B164 | 117-42-07 | 1  | 16-58-29  |        |           |          |           |         |          |         |           |            |      |
| 観測方向角    |      | 16-58-25  |    |           |        | ΔX, ΔY 合計 |          | -3.227    | 155.739 |          |         | 32292.836 | -41887.041 | B165 |
| 既知方向角    |      | 16-58-29  |    | 距離合計      |        | 204.663   |          | ΔX, ΔY    |         | -3.221   | 155.746 |           |            |      |
| 測角誤差     |      | -0-00-04  |    |           |        | 閉合差       |          | -0.006    | -0.007  | 0.009220 |         | 32296.057 | -42042.787 | B159 |
| 配布点数     |      | 5         |    |           |        | 配布点数      |          | 4         |         |          |         |           |            |      |



多角測量点計算書

路線名 C-71

角の閉合差 0-00-07.

(C-71)

測点 B164 カラ B177

実測精度 1 / 55358 距離の和 234.886

| 測角点  | 方向点  | 測角        | 補正 | 方向角       | 距離     | COS       | SIN       | Δ X     | Δ Y    | ε X | ε Y | X         | Y          | 測点   |
|------|------|-----------|----|-----------|--------|-----------|-----------|---------|--------|-----|-----|-----------|------------|------|
| A17  | B164 |           |    | 135-54-38 |        |           |           |         |        |     |     | 32335.061 | -41874.152 | B164 |
| B164 | C105 | 137-02-35 | -1 | 92-57-12  | 59.559 | -0.051523 | 0.998672  | -3.069  | 59.480 | -1  | -1  | 32331.991 | -41814.673 | C105 |
| C105 | C106 | 271-00-43 | -2 | 183-57-53 | 43.542 | -0.997607 | -0.069142 | -43.438 | -3.011 | 0   | 0   | 32288.553 | -41817.684 | C106 |
| C106 | C107 | 181-54-40 | -1 | 185-52-32 | 51.108 | -0.994747 | -0.102368 | -50.840 | -5.232 | -1  | -1  | 32237.712 | -41822.917 | C107 |
| C107 | B177 | 180-05-18 | -2 | 185-57-48 | 80.677 | -0.994589 | -0.103892 | -80.240 | -8.382 | -1  | -1  | 32157.471 | -41831.300 | B177 |
| B177 | B176 | 60-51-52  | -1 | 66-49-39  |        |           |           |         |        |     |     |           |            |      |

|       |          |      |         |             |          |        |          |           |            |      |
|-------|----------|------|---------|-------------|----------|--------|----------|-----------|------------|------|
| 観測方向角 | 66-49-46 |      |         | Δ X, Δ Y 合計 | -177.587 | 42.855 |          | 32157.471 | -41831.300 | B177 |
| 既知方向角 | 66-49-39 | 距離合計 | 234.886 | Δ X, Δ Y    | -177.590 | 42.852 |          |           |            |      |
| 測角誤差  | 0-00-07  |      |         | 閉合差         | 0.003    | 0.003  | 0.004243 | 32335.061 | -41874.152 | B164 |
| 配布点数  | 5        |      |         | 配布点数        | 4        |        |          |           |            |      |



|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|----------|------|-----------|----|-----------|--------|-------------------|----------|----------|---------|----------------|---------|-----------------------------------|------------|------|
| 多角測量点計算書 |      |           |    | 路線名       |        | C-72              |          | 角の閉合差    |         | -0-00-12.      |         | (C-72)                            |            |      |
|          |      |           |    | 測点        |        | B170      カラ B178 |          | 実測精度     |         | 1 /      16674 |         | 距離の和                      117.899 |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
| 測角点      | 方向点  | 測角        | 補正 | 方向角       | 距離     | COS               | SIN      | Δ X      | Δ Y     | ε X            | ε Y     | X                                 | Y          | 測点   |
| B169     | B170 |           |    | 138-41-33 |        |                   |          |          |         |                |         | 32145.498                         | -41990.700 | B170 |
| B170     | C108 | 100-29-48 | 4  | 59-11-25  | 39.641 | 0.512189          | 0.858873 | 20.304   | 34.047  | -2             | 2       | 32165.800                         | -41956.651 | C108 |
| C108     | B178 | 182-03-38 | 4  | 61-15-07  | 78.258 | 0.480959          | 0.876743 | 37.639   | 68.612  | -3             | 3       | 32203.436                         | -41888.036 | B178 |
| B178     | B163 | 115-46-35 | 4  | 357-01-46 |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
| 観測方向角    |      | 357-01-34 |    |           |        | Δ X, Δ Y 合計       |          | 57.943   | 102.659 |                |         | 32203.436                         | -41888.036 | B178 |
| 既知方向角    |      | 357-01-46 |    | 距離合計      |        | 117.899           |          | Δ X, Δ Y |         | 57.938         | 102.664 |                                   |            |      |
| 測角誤差     |      | -0-00-12  |    |           |        | 閉合差               |          | 0.005    | -0.005  | 0.007071       |         | 32145.498                         | -41990.700 | B170 |
| 配布点数     |      | 3         |    |           |        | 配布点数              |          | 2        |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
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|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
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|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
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|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
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|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |
|          |      |           |    |           |        |                   |          |          |         |                |         |                                   |            |      |

## ADJUSTMENTS OF THE TRAVERSINGS

PAGE. 1

| TYPE | Y | 1 | 2 | 3 |
|------|---|---|---|---|
|------|---|---|---|---|

|      |       |     |              |     |              |
|------|-------|-----|--------------|-----|--------------|
| コウ 1 | MA= 2 | MX= | (M)<br>0.002 | MY= | (M)<br>0.004 |
|------|-------|-----|--------------|-----|--------------|

|               |       |          |      |      |   |
|---------------|-------|----------|------|------|---|
| ホウコウカク ノ ヒイゲツ | ..... | 20       | +    | 50.0 | n |
| サヒョウ ノ ヒイゲツ   | ..... | 15.0+    | 10.0 | N・S  |   |
| ジュクジャク ケイスウ   | ..... | 1.000000 |      |      |   |

DATE 88/04/16

COURSE NO. 1 (B82 )----- (C113 )

| NO.  | B         | A         | S<br>(M) | X<br>(M)  | Y<br>(M)   | C.A      | C.S<br>(M) |
|------|-----------|-----------|----------|-----------|------------|----------|------------|
| B77  |           | 285-33-30 |          |           |            |          |            |
| B82  | 131-29-43 | 57-03-14  | 49.979   | 32081.912 | -41951.953 | 57-03-03 | 49.978     |
| C109 | 195-36-53 | 72-40-07  | 46.408   | 32109.094 | -41910.014 | 72-39-59 | 46.406     |
| C110 | 168-46-53 | 61-27-01  | 52.618   | 32122.921 | -41865.715 | 61-26-51 | 52.616     |
| C111 | 185-22-00 | 66-49-02  | 55.622   | 32148.069 | -41819.498 | 66-48-52 | 55.620     |
| C113 | 360-00-00 | 246-49-02 |          | 32169.967 | -41768.370 |          |            |

| SIGM                                  | SIGM | SIGM      | SIGM      |
|---------------------------------------|------|-----------|-----------|
| CAL---- DA= -3. H=1/ 17679 S= 204.627 |      | DX=-0.005 | DY= 0.010 |
|                                       |      | DS= 0.011 |           |
| LIMIT-- DA= 120 H=1/ 3000 DS= 0.19093 |      |           |           |

COURSE NO. 2 (B186 )----- (C113 )

| NO.  | B         | A         | S<br>(M) | X<br>(M)  | Y<br>(M)   | C.A       | C.S<br>(M) |
|------|-----------|-----------|----------|-----------|------------|-----------|------------|
| B185 |           | 109-35-36 |          |           |            |           |            |
| B186 | 193-34-33 | 303-10-10 | 50.726   | 32171.522 | -41657.300 | 303-10-13 | 50.726     |
| C112 | 123-41-58 | 246-52-09 | 74.609   | 32199.275 | -41699.760 | 246-52-10 | 74.608     |
| C113 | 179-56-52 | 246-49-02 |          | 32169.967 | -41768.370 |           |            |

| SIGM    | SIGM                          | SIGM      | SIGM      |
|---------|-------------------------------|-----------|-----------|
| CAL---- | DA= -3. H=1/ 69649 S= 125.335 | DX=-0.001 | DY=-0.001 |
|         |                               | DS= 0.001 |           |
| LIMIT-- | DA= 107 H=1/ 3000 DS= 0.16773 |           |           |

COURSE NO. 3 (B187 )----- (C113 )

| NO.  | B         | A         | S<br>(M) | X<br>(M)  | Y<br>(M)   | C.A       | C.S<br>(M) |
|------|-----------|-----------|----------|-----------|------------|-----------|------------|
| B186 |           | 29-39-11  |          |           |            |           |            |
| B187 | 273-29-00 | 303-08-10 | 49.431   | 32118.401 | -41687.542 | 303-08-08 | 49.428     |
| C114 | 178-45-53 | 301-54-01 | 46.456   | 32145.420 | -41728.932 | 301-53-59 | 46.454     |
| C113 | 124-55-02 | 246-49-02 |          | 32169.967 | -41768.370 |           |            |

| SIGM         | SIGM              | SIGM    | SIGM                                |
|--------------|-------------------|---------|-------------------------------------|
| CAL----- DA= | 4. H=1/ 18942 S=  | 95.887  | DX= 0.003<br>DY=-0.004<br>DS= 0.005 |
| LIMIT-- DA=  | 107 H=1/ 3000 DS= | 0.16356 |                                     |

\*\*\* END \*\*\*

|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|----------|------|-----------|----|-----------|--------|-----------|-----------|-----------|---------|----------|----|-----------|------------|------|
| 多角測量点計算書 |      | 路線名       |    | C-76      |        | 角の閉合差     |           | 0-00-23   |         | (C-76)   |    |           |            |      |
| 測点       |      | A23       |    | カラ B187   |        | 実測精度      |           | 1 / 27116 |         | 距離の和     |    | 135.579   |            |      |
| 測角点      | 方向点  | 測角        | 補正 | 方向角       | 距離     | COS       | SIN       | ΔX        | ΔY      | εX       | εY | X         | Y          | 測点   |
| A22      | A23  |           |    | 192-43-34 |        |           |           |           |         |          |    | 32144.800 | -41596.016 | A23  |
| A23      | C116 | 209-57-07 | -6 | 222-40-35 | 36.509 | -0.735194 | -0.677857 | -26.841   | -24.748 | -1       | 0  | 32117.958 | -41620.764 | C116 |
| C116     | C115 | 168-08-08 | -6 | 210-48-37 | 41.038 | -0.858868 | -0.512197 | -35.246   | -21.020 | -2       | 0  | 32082.710 | -41641.784 | C115 |
| C115     | B187 | 277-08-48 | -5 | 307-57-20 | 58.032 | 0.615050  | -0.788488 | 35.693    | -45.758 | -2       | 0  | 32118.401 | -41687.542 | B187 |
| B187     | B186 | 261-41-57 | -6 | 29-39-11  |        |           |           |           |         |          |    |           |            |      |
| 観測方向角    |      | 29-39-34  |    |           |        | ΔX, ΔY合計  |           | -26.394   | -91.526 |          |    | 32118.401 | -41687.542 | B187 |
| 既知方向角    |      | 29-39-11  |    | 距離合計      |        | 135.579   |           | ΔX, ΔY    |         |          |    |           |            |      |
| 測角誤差     |      | 0-00-23   |    |           |        | 閉合差       |           | 0.005     | 0.000   | 0.005000 |    | 32144.800 | -41596.016 | A23  |
| 配布点数     |      | 4         |    |           |        | 配布点数      |           | 3         |         |          |    |           |            |      |

[illegible]



|          |      |           |     |           |        |           |           |           |         |          |         |           |            |      |
|----------|------|-----------|-----|-----------|--------|-----------|-----------|-----------|---------|----------|---------|-----------|------------|------|
| 多角測量点計算書 |      | 路線名       |     | C-78      |        | 角の閉合差     |           | 0-01-02   |         | (C-78)   |         |           |            |      |
| 測点       |      | B184      |     | カウ B183   |        | 実測精度      |           | 1 / 22805 |         | 距離の和     |         | 206.497   |            |      |
| 測角点      | 方向点  | 測角        | 補正  | 方向角       | 距離     | COS       | SIN       | ΔX        | ΔY      | εX       | εY      | X         | Y          | 測点   |
| B183     | B184 |           |     | 43-26-24  |        |           |           |           |         |          |         | 32018.156 | -41753.993 | B184 |
| B184     | C119 | 255-49-50 | -12 | 119-16-02 | 67.806 | -0.488883 | 0.872349  | -33.149   | 59.150  | -3       | 0       | 31985.004 | -41694.843 | C119 |
| C119     | C120 | 285-29-28 | -13 | 224-45-17 | 42.172 | -0.710127 | -0.704073 | -29.947   | -29.692 | -2       | 0       | 31955.055 | -41724.535 | C120 |
| C120     | C121 | 205-53-50 | -12 | 250-38-55 | 58.478 | -0.331361 | -0.943504 | -19.377   | -55.174 | -2       | -1      | 31935.676 | -41779.710 | C121 |
| C121     | B183 | 242-37-45 | -13 | 313-16-27 | 38.041 | 0.685490  | -0.728082 | 26.077    | -27.697 | -2       | 0       | 31961.751 | -41807.407 | B183 |
| B183     | A26  | 100-52-32 | -12 | 234-08-47 |        |           |           |           |         |          |         |           |            |      |
| 観測方向角    |      | 234-09-49 |     |           |        | ΔX, ΔY合計  |           | -56.396   | -53.413 |          |         | 31961.751 | -41807.407 | B183 |
| 既知方向角    |      | 234-08-47 |     | 距離合計      |        | 206.497   |           | ΔX, ΔY    |         | -56.405  | -53.414 |           |            |      |
| 測角誤差     |      | 0-01-02   |     |           |        | 閉合差       |           | 0.009     | 0.001   | 0.009055 |         | 32018.156 | -41753.993 | B184 |
| 配布点数     |      | 5         |     |           |        | 配布点数      |           | 4         |         |          |         |           |            |      |
|          |      |           |     |           |        |           |           |           |         |          |         |           |            |      |
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|----------|------|-----------|----|-----------|---------|-----------|-----------|-----------|---------|----------|----|-----------|------------|------|
| 多角測量点計算書 |      | 路線名       |    | C-79      |         | 角の閉合差     |           | 0-00-15   |         | (C-79)   |    |           |            |      |
| 測点       |      | A27       |    | カラ B92    |         | 実測精度      |           | 1 / 97480 |         | 距離の和     |    | 137.837   |            |      |
| 測角点      | 方向点  | 測角        | 補正 | 方向角       | 距離      | COS       | SIN       | ΔX        | ΔY      | εX       | εY | X         | Y          | 測点   |
| A32      | A27  |           |    | 130-17-53 |         |           |           |           |         |          |    | 31686.061 | -42189.457 | A27  |
| A27      | C122 | 175-16-25 | -5 | 125-34-13 | 67.109  | -0.581701 | 0.813403  | -39.037   | 54.587  | 0        | 0  | 31647.024 | -42134.870 | C122 |
| C122     | B92  | 177-27-25 | -5 | 123-01-33 | 70.728  | -0.545017 | 0.838425  | -38.548   | 59.300  | -1       | -1 | 31608.475 | -42075.571 | B92  |
| B92      | B93  | 64-18-58  | -5 | 7-20-26   |         |           |           |           |         |          |    |           |            |      |
| 観測方向角    |      | 7-20-41   |    |           |         |           | ΔX, ΔY 合計 | -77.585   | 113.887 |          |    | 31608.475 | -42075.571 | B92  |
| 既知方向角    |      | 7-20-26   |    | 距離合計      | 137.837 |           | ΔX, ΔY    | -77.586   | 113.886 |          |    |           |            |      |
| 測角誤差     |      | 0-00-15   |    |           |         |           | 閉合差       | 0.001     | 0.001   | 0.001414 |    | 31686.061 | -42189.457 | A27  |
| 配布点数     |      | 3         |    |           |         |           | 配布点数      | 2         |         |          |    |           |            |      |



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|----------|------|-----------|----|-----------|--------|-----------|----------|-----------|--------|----------|----|-----------|------------|------|
| 多角測量点計算書 |      | 路線名       |    | C-82      |        | 角の閉合差     |          | 0-00-27   |        | (C-82)   |    |           |            |      |
| 測点       |      | C67       |    | カラ A5     |        | 実測精度      |          | 1 / 11593 |        | 距離の和     |    | 59.115    |            |      |
| 測角点      | 方向点  | 測角        | 補正 | 方向角       | 距離     | COS       | SIN      | ΔX        | ΔY     | εX       | εY | X         | Y          | 測点   |
| B122     | C67  |           |    | 264-31-03 |        |           |          |           |        |          |    | 32580.445 | -42516.775 | C67  |
| C67      | C128 | 91-55-18  | -9 | 176-26-12 | 24.429 | -0.998067 | 0.062152 | -24.382   | 1.518  | -2       | 0  | 32556.061 | -42515.257 | C128 |
| C128     | A5   | 159-39-50 | -9 | 156-05-53 | 34.686 | -0.914240 | 0.405173 | -31.711   | 14.054 | -3       | -1 | 32524.347 | -42501.204 | A5   |
| A5       | B10  | 302-59-13 | -9 | 279-04-57 |        |           |          |           |        |          |    |           |            |      |
| 観測方向角    |      | 279-05-24 |    |           |        | ΔX, ΔY 合計 |          | -56.093   | 15.572 |          |    | 32524.347 | -42501.204 | A5   |
| 既知方向角    |      | 279-04-57 |    | 距離合計      |        | 59.115    |          | ΔX, ΔY    |        |          |    |           |            |      |
| 測角誤差     |      | 0-00-27   |    |           |        | 閉合差       |          | 0.005     | 0.001  | 0.005099 |    | 32580.445 | -42516.775 | C67  |
| 配布点数     |      | 3         |    |           |        | 配布点数      |          | 2         |        |          |    |           |            |      |
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| 多角測量点計算書 |      | 路線名       |    | C-83      |        | 角の閉合差     |           | -0-00-03  |         | (C-83)   |    |           |            |      |
| 測点       |      | B11       |    | カラ B21    |        | 実測精度      |           | 1 / 15686 |         | 距離の和     |    | 110.919   |            |      |
| 測角点      | 方向点  | 測角        | 補正 | 方向角       | 距離     | COS       | SIN       | ΔX        | ΔY      | εX       | εY | X         | Y          | 測点   |
| B10      | B11  |           |    | 258-03-33 |        |           |           |           |         |          |    | 32519.158 | -42588.306 | B11  |
| B11      | C127 | 176-11-58 | 1  | 254-15-32 | 53.970 | -0.271291 | -0.962497 | -14.642   | -51.946 | 2        | -2 | 32504.518 | -42640.254 | C127 |
| C127     | B21  | 158-20-25 | 1  | 232-35-58 | 56.949 | -0.607384 | -0.794409 | -34.590   | -45.241 | 3        | -3 | 32469.931 | -42685.498 | B21  |
| B21      | B22  | 105-47-38 | 1  | 158-23-37 |        |           |           |           |         |          |    |           |            |      |
| 観測方向角    |      | 158-23-34 |    |           |        | ΔX, ΔY 合計 |           | -49.232   | -97.187 |          |    | 32469.931 | -42685.498 | B21  |
| 既知方向角    |      | 158-23-37 |    | 距離合計      |        | 110.919   |           | ΔX, ΔY    |         |          |    |           |            |      |
| 測角誤差     |      | -0-00-03  |    |           |        | 閉合差       |           | -0.005    | 0.005   | 0.007071 |    | 32519.158 | -42588.306 | B11  |
| 配布点数     |      | 3         |    |           |        | 配布点数      |           | 2         |         |          |    |           |            |      |
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|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |
|          |      |           |    |           |        |           |           |           |         |          |    |           |            |      |

現場名 : 西藤土地区画整理事業 測量検査業務委託

視準点(始点) : B 50  
(終点) : B 55

| NN | 観測角       | EA | 方向角       | 距離     | COS       | SIN      | 緯距<br>( $\Delta X$ ) | 経距<br>( $\Delta Y$ ) | 補正值<br>$\Delta X$ $\Delta Y$ |   | X座標       | Y座標        | No.  | 点名    |
|----|-----------|----|-----------|--------|-----------|----------|----------------------|----------------------|------------------------------|---|-----------|------------|------|-------|
| 0  |           |    | 150-17-55 |        |           |          |                      |                      |                              |   | 32033.613 | -42531.940 | 9150 | B 50  |
| 1  | 183-20-20 | 6  | 153-38-21 | 38.478 | -0.896015 | 0.444023 | -34.477              | 17.085               | -1                           | 2 | 31999.135 | -42514.853 | 9431 | C 131 |
| 2  | 175-12-50 | 6  | 148-51-17 | 57.929 | -0.855859 | 0.517210 | -49.579              | 29.961               | -1                           | 4 | 31949.555 | -42484.888 | 9432 | C 132 |
| 3  | 166-49-40 | 5  | 135-41-02 | 86.510 | -0.715496 | 0.698617 | -61.898              | 60.437               | -1                           | 6 | 31887.656 | -42424.445 | 9433 | C 133 |
| 4  | 134-25-10 | 6  | 90-06-18  | 24.818 | -0.001833 | 0.999998 | -0.045               | 24.818               | 0                            | 2 | 31887.611 | -42399.625 | 9155 | B 55  |
| 5  | 139-39-50 | 6  | 49-46-14  |        |           |          |                      |                      |                              |   |           |            |      |       |

|       |          |      |           |       |      |                     |          |      |          |               |        |
|-------|----------|------|-----------|-------|------|---------------------|----------|------|----------|---------------|--------|
| 観測方向角 | 49-45-45 | 測角誤差 | - 0-00-29 | 角の補正值 | 5.80 | $\Sigma (\Delta X)$ | -145.999 | Xn-o | -146.002 | $\Sigma (EX)$ | -0.003 |
| 既知方向角 | 49-46-14 | 距離合計 | 207.735   |       |      | $\Sigma (\Delta Y)$ | 132.301  | Yn-o | 132.315  | $\Sigma (EY)$ | 0.014  |
|       |          |      |           |       |      |                     |          | E    | 0.01432  | 精度 1/         | 14509  |

現場名 : 西藤土地区画整理事業 測量検査業務委託

視準点(始点) : A 29  
(終点) : A 30

| NN | 観測角       | EA | 方向角       | 距離      | COS      | SIN      | 緯 距<br>(ΔX) | 経 距<br>(ΔY) | 補正值<br>ΔX ΔY |   | X座標       | Y座標        | No.  | 点名    |
|----|-----------|----|-----------|---------|----------|----------|-------------|-------------|--------------|---|-----------|------------|------|-------|
| 0  |           |    | 207-51-26 |         |          |          |             |             |              |   | 31505.266 | -41943.803 | 9029 | A 29  |
| 1  | 0-00-00   | 0  | 27-51-26  | 63.239  | 0.884115 | 0.467270 | 55.911      | 29.550      | 0            | 0 | 31561.177 | -41914.253 | 9434 | C 134 |
| 2  | 180-00-00 | 0  | 27-51-26  | 135.085 | 0.884115 | 0.467270 | 119.431     | 63.121      | 1            | 1 | 31680.609 | -41851.131 | 9030 | A 30  |
| 3  | 0-00-00   | 0  | 207-51-26 |         |          |          |             |             |              |   |           |            |      |       |

|       |           |      |         |       |      |       |         |                  |         |       |           |
|-------|-----------|------|---------|-------|------|-------|---------|------------------|---------|-------|-----------|
| 観測方向角 | 207-51-26 | 測角誤差 | 0-00-00 | 角の補正值 | 0.00 | Σ(ΔX) | 175.342 | X <sub>n-o</sub> | 175.343 | Σ(EX) | 0.001     |
| 既知方向角 | 207-51-26 | 距離合計 | 198.324 |       |      | Σ(ΔY) | 92.671  | Y <sub>n-o</sub> | 92.672  | Σ(EY) | 0.001     |
|       |           |      |         |       |      |       |         | E                | 0.00141 | 精度    | 1/ 140236 |



現場名 : 西藤土地区画整理事業 測量検査業務委託

視準点(始点) : A 30  
(終点) : B 113

| NN | 観測角       | EA | 方向角       | 距離     | COS       | SIN       | 緯距<br>( $\Delta X$ ) | 経距<br>( $\Delta Y$ ) | 補正值<br>$\Delta X$ $\Delta Y$ |   | X座標       | Y座標        | No.  | 点名    |
|----|-----------|----|-----------|--------|-----------|-----------|----------------------|----------------------|------------------------------|---|-----------|------------|------|-------|
| 0  |           |    | 27-51-26  |        |           |           |                      |                      |                              |   | 31680.609 | -41851.131 | 9030 | A 30  |
| 1  | 179-51-40 | 6  | 27-43-12  | 88.998 | 0.835231  | 0.465151  | 78.784               | 41.398               | 1                            | 9 | 31759.394 | -41809.724 | 9435 | C 135 |
| 2  | 86-30-20  | 6  | 294-13-38 | 44.239 | 0.410356  | -0.911925 | 18.154               | -40.343              | 0                            | 4 | 31777.548 | -41850.063 | 9436 | C 136 |
| 3  | 290-45-00 | 6  | 44-58-44  | 42.141 | 0.707367  | 0.706846  | 29.809               | 29.787               | 0                            | 4 | 31807.357 | -41820.272 | 9437 | C 137 |
| 4  | 167-42-30 | 6  | 32-41-20  | 14.076 | 0.841616  | 0.540077  | 11.847               | 7.602                | 0                            | 1 | 31819.204 | -41812.669 | 9438 | C 138 |
| 5  | 159-22-20 | 6  | 12-03-46  | 11.608 | 0.977919  | 0.208983  | 11.352               | 2.426                | 0                            | 1 | 31830.556 | -41810.242 | 9439 | C 139 |
| 6  | 149-02-00 | 6  | 341-05-52 | 42.021 | 0.946073  | -0.323954 | 39.755               | -13.613              | 0                            | 4 | 31870.311 | -41823.851 | 9440 | C 140 |
| 7  | 56-30-30  | 6  | 217-36-28 | 29.458 | -0.792207 | -0.610253 | -23.337              | -17.977              | 0                            | 3 | 31846.974 | -41841.825 | 9213 | B 113 |
| 8  | 224-00-40 | 6  | 261-37-14 |        |           |           |                      |                      |                              |   |           |            |      |       |

|       |           |      |           |       |      |                     |         |      |         |               |       |
|-------|-----------|------|-----------|-------|------|---------------------|---------|------|---------|---------------|-------|
| 観測方向角 | 261-36-26 | 測角誤差 | - 0-00-48 | 角の補正值 | 6.00 | $\Sigma (\Delta X)$ | 166.364 | Xn-o | 166.365 | $\Sigma (EX)$ | 0.001 |
| 既知方向角 | 261-37-14 | 距離合計 | 272.541   |       |      | $\Sigma (\Delta Y)$ | 9.280   | Yn-o | 9.306   | $\Sigma (EY)$ | 0.026 |
|       |           |      |           |       |      |                     |         | E    | 0.02602 | 精度 1/         | 10475 |



多角点測量 座標計算簿 (C-84)

PAGE ( )

現場名 : 西藤土地区画整理事業 測量検査業務委託

視準点(始点) : B 50  
(終点) : B 55

| NN | 観測角       | EA | 方向角       | 距離     | COS       | SIN      | 緯距<br>(ΔX) | 経距<br>(ΔY) | 補正值<br>ΔX ΔY |   | X座標       | Y座標        | No.  | 点名    |
|----|-----------|----|-----------|--------|-----------|----------|------------|------------|--------------|---|-----------|------------|------|-------|
| 0  |           |    | 150-17-55 |        |           |          |            |            |              |   | 32033.613 | -42531.940 | 9150 | B 50  |
| 1  | 183-20-20 | 6  | 153-38-21 | 38.478 | -0.896015 | 0.444023 | -34.477    | 17.085     | -1           | 2 | 31999.135 | -42514.853 | 9431 | C 131 |
| 2  | 175-12-50 | 6  | 148-51-17 | 57.929 | -0.855859 | 0.517210 | -49.579    | 29.961     | -1           | 4 | 31949.555 | -42484.888 | 9432 | C 132 |
| 3  | 166-49-40 | 5  | 135-41-02 | 86.510 | -0.715496 | 0.698617 | -61.898    | 60.437     | -1           | 6 | 31887.656 | -42424.445 | 9433 | C 133 |
| 4  | 134-25-10 | 6  | 90-06-18  | 24.818 | -0.001833 | 0.999998 | -0.045     | 24.818     | 0            | 2 | 31887.611 | -42399.625 | 9155 | B 55  |
| 5  | 139-39-50 | 6  | 49-46-14  |        |           |          |            |            |              |   |           |            |      |       |

|       |          |      |           |       |         |        |          |      |          |        |        |
|-------|----------|------|-----------|-------|---------|--------|----------|------|----------|--------|--------|
| 観測方向角 | 49-45-45 | 測角誤差 | - 0-00-29 | 角の補正值 | 5.80    | Σ (ΔX) | -145.999 | Xn-o | -146.002 | Σ (EX) | -0.003 |
| 既知方向角 | 49-46-14 | 距離合計 |           |       | 207.735 | Σ (ΔY) | 132.301  | Yn-o | 132.315  | Σ (EY) | 0.014  |
|       |          |      |           |       |         |        |          | E    | 0.01432  | 精度 1/  | 14509  |

多角点測量 座標計算簿 (C-85)

PAGE ( )

現場名 : 西藤土地地区画整理事業 測量検査業務委託

視準点(始点) : A 29  
(終点) : A 30

| NN | 観測角       | EA | 方向角       | 距離      | COS      | SIN      | 緯距<br>(ΔX) | 経距<br>(ΔY) | 補正值<br>ΔX ΔY |   | X座標       | Y座標        | No.  | 点名    |
|----|-----------|----|-----------|---------|----------|----------|------------|------------|--------------|---|-----------|------------|------|-------|
| 0  |           |    | 207-51-26 |         |          |          |            |            |              |   | 31505.266 | -41943.803 | 9029 | A 29  |
| 1  | 0-00-00   | 0  | 27-51-26  | 63.239  | 0.884115 | 0.467270 | 55.911     | 29.550     | 0            | 0 | 31561.177 | -41914.253 | 9434 | C 134 |
| 2  | 180-00-00 | 0  | 27-51-26  | 135.085 | 0.884115 | 0.467270 | 119.431    | 63.121     | 1            | 1 | 31680.609 | -41851.131 | 9030 | A 30  |
| 3  | 0-00-00   | 0  | 207-51-26 |         |          |          |            |            |              |   |           |            |      |       |

|       |           |      |         |       |      |       |         |      |         |       |           |
|-------|-----------|------|---------|-------|------|-------|---------|------|---------|-------|-----------|
| 観測方向角 | 207-51-26 | 測角誤差 | 0-00-00 | 角の補正值 | 0.00 | Σ(ΔX) | 175.342 | Xn-o | 175.343 | Σ(EX) | 0.001     |
| 既知方向角 | 207-51-26 | 距離合計 | 198.324 |       |      | Σ(ΔY) | 92.671  | Yn-o | 92.672  | Σ(EY) | 0.001     |
|       |           |      |         |       |      |       |         | E    | 0.00141 | 精度    | 1/ 140236 |



多角点測量 座標計算簿 (C-86)

PAGE ( )

現場名 : 西藤土地区画整理事業 測量検査業務委託

視準点(始点) : A 30  
(終点) : B 113

| NN | 観測角       | EA | 方向角       | 距離     | COS       | SIN       | 緯 距<br>(ΔX) | 経 距<br>(ΔY) | 補正值<br>ΔX ΔY |   | X座標       | Y座標        | No.  | 点名    |
|----|-----------|----|-----------|--------|-----------|-----------|-------------|-------------|--------------|---|-----------|------------|------|-------|
| 0  |           |    | 27-51-26  |        |           |           |             |             |              |   | 31680.609 | -41851.131 | 9030 | A 30  |
| 1  | 179-51-40 | 6  | 27-43-12  | 88.998 | 0.885231  | 0.465151  | 78.784      | 41.398      | 1            | 9 | 31759.394 | -41809.724 | 9435 | C 135 |
| 2  | 86-30-20  | 6  | 294-13-38 | 44.239 | 0.410356  | -0.911925 | 18.154      | -40.343     | 0            | 4 | 31777.548 | -41850.063 | 9436 | C 136 |
| 3  | 290-45-00 | 6  | 44-58-44  | 42.141 | 0.707367  | 0.706846  | 29.809      | 29.787      | 0            | 4 | 31807.357 | -41820.272 | 9437 | C 137 |
| 4  | 167-42-30 | 6  | 32-41-20  | 14.076 | 0.841616  | 0.540077  | 11.847      | 7.602       | 0            | 1 | 31819.204 | -41812.669 | 9438 | C 138 |
| 5  | 159-22-20 | 6  | 12-03-46  | 11.608 | 0.977919  | 0.208983  | 11.352      | 2.426       | 0            | 1 | 31830.556 | -41810.242 | 9439 | C 139 |
| 6  | 149-02-00 | 6  | 341-05-52 | 42.021 | 0.946073  | -0.323954 | 39.755      | -13.613     | 0            | 4 | 31870.311 | -41823.851 | 9440 | C 140 |
| 7  | 56-30-30  | 6  | 217-36-28 | 29.458 | -0.792207 | -0.610253 | -23.337     | -17.977     | 0            | 3 | 31846.974 | -41841.825 | 9213 | B 113 |
| 8  | 224-00-40 | 6  | 261-37-14 |        |           |           |             |             |              |   |           |            |      |       |

|       |           |      |           |       |         |        |         |      |         |        |       |
|-------|-----------|------|-----------|-------|---------|--------|---------|------|---------|--------|-------|
| 観測方向角 | 261-36-26 | 測角誤差 | - 0-00-48 | 角の補正值 | 6.00    | Σ (ΔX) | 166.364 | Xn-o | 166.365 | Σ (EX) | 0.001 |
| 既知方向角 | 261-37-14 | 距離合計 |           |       | 272.541 | Σ (ΔY) | 9.280   | Yn-o | 9.306   | Σ (EY) | 0.026 |
|       |           |      |           |       |         |        |         | E    | 0.02602 | 精度 1/  | 10475 |