

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

SEP 18 1934

Acc. No.

FORM 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

## DESCRIPTIVE REPORT

Topographic **XXXXXXXXXXXXX** 

Sheet No. c 60928

| State | South Carolina    |
|-------|-------------------|
|       | LOCALITY          |
|       | St. Helena Island |
|       | Fripp Inlet       |
|       |                   |
|       | ,                 |
|       | •                 |
|       |                   |
|       | . 193 <b>4</b>    |
|       |                   |
|       | CHIEF OF PARTY    |

U.S. GOVERNMENT PRINTING OFFICE: 1994

R.P. Eyman

Form 537a Ed. Nov., 1929

# DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

SEP 18 1934

### TOPOGRAPHIC TITLE SHEET

| Acc. | Na. |
|------|-----|
|------|-----|

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No.....C

|                      | REGISTER NO. 60922               |     |
|----------------------|----------------------------------|-----|
| State                | South Carolina                   |     |
| General locality     | St. Helena Island                |     |
| Locality             | Fripp's Inlet                    |     |
| Scale 1: 10,000      | Date of survey March 19          | 34  |
| Vessel               | M. V. Natoma                     |     |
| Chief of party       | Raymond P. Eyman                 |     |
| Surveyed by          | J. H. Tiller Jr.                 |     |
| Inked by             | R. Pinckney                      |     |
| Heights in feet abov | veto ground to tops of tr        | ee: |
| Contour, Approximate | e contour, Form line intervalfee | t;  |
| Instructions dated   | November 2, 19                   | 33  |
| Remarks:             |                                  |     |
|                      |                                  |     |

# DECS CRIPTIVE REPORT TO ACCOMPANY

# TOPOGRAPHIC SHEET NO. "C" FRIPP'S INLET, SOUTH CAROLINA 1934

### INSTRUCTIONS:

Instructions for Project HT-159, November 2, 1933 were followed throughout.

### PURPOSE OF TOPOGRAPHY:

The topography of this area was to furnish the control for hydrography and aerial photographs. Only small areas around points that could be spotted on the photographs were shown in detail, except on Hunting Island beach a traverse was run on the beach to show the high water line.

#### METHODS:

The usual plane-table methods of surveying were used. All topographic stations were located by cuts from triangulation stations, located intersection stations, rod readings, and traverse.

### EXTENT:

This sheet comprises a survey of Fripp's Inlet, the southern part of Hunting Island, Old House Creek, and a small portion of Harbor River. This sheet comprises a survey of the area between latitudes 32° 19.2' and 32° 22.4'; longitudes 80° 25.7' and 80° 30.8'.

### DESCRIPTION:

With the exception of the lower half of Hunting Island this area is marsh. Spring tides cover most of the area and causes it to appear as an open bay. The high water mark is not distinct except on Hunting Island. This is shown by the tree line. At low water the marsh grass delineates the shore line of the small creeks and rivers. On the baech side of Hunting Island the high water line is delineated by the sand dunes on the south end and the tree line on the north end. This beach shows signs of a very rapid rate of beach erosion. A traverse was run from Fripp's Inlet to the north end of the sheet and continued on sheet "D". This traverse was run to show the high water line. The error of closure was six meters in orientation. This error was adjusted according to Special Publication No. 144.

### AERIAL PHOTOGRAPHS:

Aerial photographs were used in connection with the topography. No attempt was made to delineate the shore line except at setups that could be definitely spotted on the photographs. These small areas were shown in detail to assist the compilation party in compiling the shore line for the finished charts.

### CONTROL:

The control for this sheet consists of second, third, and fourth order triangulation established by this party in 1933 under Project HT-126, December 23, 1932.

### NAMES:

Old House Creek does not appear on the chart. This creek is south of Story River and empties into Fripp's Inlet. Old House Creek is on the Fripp's Island side of Fripp's Inlet and forms the north boundry of Fripp's Island.

### MAGNETIC DECLINATION:

Magnetic meridians were determined at triangulation stations CHAN 1933, WEE 1933, and FRY 1933.

### ALUMINUM BACKED SHEETS:

An aluminum backed sheet was used and found to be very satisfactory in every respect.

### LANIMARKS:

There were no landmarks of sufficient prominence for charting.

### STATISTICS:

Area in square statute miles -- - - - - 11.0 Traverse in statute miles - - - - - -Shore line statute miles - - - - - - - 3.0

Approved and forwarded; 4. fammons

Jack C. Sammons,

Chief of Party,

Commanding Ship NATOMA.

Respectfully submitted,

Omes H. Filler,

James H. Tiller, Jr.

Observer.

|              |                 | Latit          | ude                 |       | ongitu             | ide    |                |           |
|--------------|-----------------|----------------|---------------------|-------|--------------------|--------|----------------|-----------|
| d            | •               |                | meters              | 0     | ·                  | meters |                |           |
|              | -32             | 20             | 80%                 | -80   | 26                 | 1480   |                | 175 (180) |
|              |                 |                | (1041)              |       |                    | (89)   |                |           |
|              | 32              | 19             |                     | 80    | 30                 | 140    |                |           |
| K            |                 |                | (453)               |       |                    | ()     |                |           |
|              | 32              | 20             | 7 890 7             | , 807 | 26 2               | 1423   |                |           |
| P            | 16              |                | (\$58)              | 0     | Maria Land         | (146)  | Subject to the |           |
| T            | 32              | 21             | 416                 | 80    | 28                 | 1563   |                |           |
|              |                 |                | (1432)              |       |                    | (6)    |                |           |
| BEAT         | 32              | 21             | 1373                | 80    | 28                 | 1013   |                |           |
|              |                 |                | (475)               |       |                    | (556)  |                |           |
| IN           | 32              | 20             | 1697                | 80    | 28                 | 1521   |                |           |
|              |                 |                | (151)               |       |                    | (48)   |                |           |
| <del>}</del> | <del>32</del> . | -80            | 1730-               | -80-  | -26-               | 1088 4 |                |           |
|              |                 |                | (118)               |       |                    | (481)  |                |           |
| CAN          | 32              | 21             | 427                 | 80    | 28                 | 1338   |                |           |
|              |                 |                | (1421)              |       |                    | (231)  |                | 1         |
| D-           | <del>58</del>   | -21            | 804                 | 80-   | 26                 | 701    |                |           |
|              |                 |                | (1044)              |       |                    | (868)~ |                |           |
| TOC          | 32              | 21             | 81.7                | 80    | 29                 | 223 -  |                |           |
|              |                 |                | (1031)              |       |                    | (1346) |                |           |
| -            | 82              | -21            | 1741                | 80    | -26                | 847    |                |           |
| -            |                 |                | ( <del>107)</del> ∀ |       |                    | (1222) |                |           |
| YE           | 32              | 20             | 953                 | 80    | 30                 | 981 -  |                |           |
|              |                 |                | (895)               |       |                    | ()     |                |           |
|              | <del>32</del>   | 21             | 1848                | -80-  | 26                 | 340-   |                |           |
|              |                 |                | (6)                 |       | See Land Committee | (1229) |                |           |
| OR           | 32              | 20             | 629                 | 80    | 30                 | 929 -  |                | REGIS     |
|              |                 |                | (1219)              |       |                    | ()     |                |           |
|              | -25             | <del>22-</del> | 456~                | -80-2 | -26-               | 154    |                |           |
|              |                 |                | ()                  |       |                    | (1415) |                |           |
| NUE          | 32              | 20             | 868                 | 80    | 30                 | 615    |                |           |
|              |                 |                | (980)               |       |                    | ()~    |                |           |
| F            | -32-            | -22            | -734                | 80-   | 26-                | 41-    |                |           |
|              |                 |                | () '                |       |                    | (1528) |                |           |
| HO           | 32              | 20             | 1054                | 80    | 30                 | 706    |                |           |
|              |                 |                | (794)               |       |                    | ()     |                |           |
| HOG          | 32              | 21             | 1252                | 80    | 29                 | 1009   |                |           |
|              | and a spin      |                | (596)               |       |                    | (560)  |                |           |
| ST T         | 32              | 20             | 400                 | 80    | 27                 | 202    |                |           |
|              |                 |                | (1448)              |       |                    | (1367) |                |           |
| IL I         | 32              | 21             | 1394                | 80    | 30                 | 105    |                |           |
|              |                 |                | (454)               |       |                    | ()     |                |           |
| T            | 32              | 20             | 1306                | 80    | 30                 | 204    |                |           |
|              |                 |                | (542)               |       |                    | ()     |                |           |
| -            | 32              | 20             | 74                  | 80    | 27                 | 1090   |                |           |
| FAN          | 7               |                | (1774)              |       |                    | (479)  |                |           |

- ox 9th 24.

|              | 4.97 | Latitu     | ide     |               | Longit | ude    |
|--------------|------|------------|---------|---------------|--------|--------|
|              | 0    | •          | meters  | 0             | •      | meters |
|              |      |            |         | la e constant |        |        |
| JIM          | 32   | 21         | 835     | 80            | 28     | 93 0   |
|              |      |            | (1013)  |               |        | (1476) |
| JOE          | 32   | 20         | 1396 -  | 80            | 29     | 1162   |
|              |      |            | (452)   |               |        | (407)  |
| *            | 32   | 21         | 1774    | 80            | 27     | 282 /  |
| LOT          |      |            | (74)    |               |        | (1287) |
| KIT          | 32 . | 21         | 1820    | 80            | 29     | 1297   |
|              |      |            | (28) ~  | 1             |        | (272)  |
| LAS          | 32   | 20         | 1844    | 80            | 29     | 1406 V |
|              |      |            | (4)     |               |        | (163)  |
| <del>L</del> | 32   | 22         | 39      | 80            | 27     | 687    |
| WAS          |      |            | ()      |               |        | (882)  |
| ₩-           | 32   | 22         | 206     | 80            | 27     | 1548   |
| TEA          |      | - 12 ga 94 | () v    |               |        | (21)   |
| MAL          | 32   | 22         | 276 V   | 80            | 29     | 663    |
|              |      |            | ()      |               |        | (906)  |
| MAT          | 32   | 20         | 1202 /  | 80            | 29     | 965    |
|              |      |            | (646)   |               |        | (604)  |
| H            | 32   | 22         | 333     | 80            | 27     | 815    |
| FEZ          |      |            | ()      |               |        | (754)  |
| NIX          | 32   | 20         | 1292    | 80            | 29     | 225 /  |
|              |      |            | (556)   |               |        | (1344) |
| PAL          | 32   | 20         | 1720    | 80            | 28     | 1200 / |
|              |      |            | (128)   |               |        | (369)  |
| €*           | 32   | 20         | 393 -   | 80            | 28     | 727    |
| GET          |      |            | (1455)  |               |        | (842)  |
| R            | 32   | 19         | 0       | 80            | 28     | 1488   |
| FI .         |      |            | (45) v  |               |        | (81)   |
| RAM          | 32   | 22         | 4 ×     | 80            | 30     | 623 v  |
|              |      |            | () v    |               |        | () /   |
| RUN          | 32   | 20         | 741     | 80            | 28     | 585 v  |
| 21021        |      |            | (1107)  |               |        | (984)  |
| 8            | 32   | 20         | 505     | 80            | 28     | 1325 - |
| PAR          |      |            | (1343)  |               |        | (244)  |
| SAL          | 32   | 21         | 646     | 80            | 28     | 502    |
|              |      |            | (1202)- |               |        | (1067) |
| SAT          | 32   | 20         | 852     | 80            | 27     | 981    |
|              |      |            | (996)   |               |        | (588)  |
| SAW          | 32   | 22         | 649     | 80            | 27     | 1005 / |
| DENI         |      |            | () ~    |               |        | (564)  |
|              | 32   | 19         |         | 80            | 29     | 781    |
| KIP          | 02   |            | (1316)  |               |        | (788)  |
| TAM          | 32   | 21         | 601     | 80            | 27     | 1261   |
| TWM          | 02   |            | (1247)  |               |        | (308)  |
| man          | 32   | 21         | 323 -   | 80            | 28     | 703    |
| TIT          | 36   | N.T.       |         | -             |        | (866)  |
|              |      |            | (1525)  |               |        | 1000   |

|     |    | Latitu | de         |     | Longit | tude                                   |  |
|-----|----|--------|------------|-----|--------|--|--|
| 0   | 0  | •      | meters     | 0   | •      | meters                                 |  |
| TOP | 32 | 20     | 453 (1395) | 80  | 27     | 1410 (159)                             |  |
| ME  | 32 | 19     | (1023)     | 80  | 29     | 1257 / (312)                           |  |
| POT | 32 | 19     | (959)      | 80  | 29     | 1497 <sup>7</sup><br>(72) <sup>7</sup> |  |
| TAR | 32 | 19     | (938)      | 80  | 29     | 413 (1156)                             |  |
| LOG | 32 | 19     | (858)      | 80  | 29     | 56 (1513)                              |  |
| MAL | 32 | 19     | (221)      | 80  | 29     | 104 /<br>(1465)                        |  |
| KAP | 32 | 19     | (1049)     | 80  | 30     | 466                                    |  |
| TUC | 32 |        | 450        | 80- | 2.7    | 377<br>377                             |  |

10 OUT 32 - 20 (458 (399) COPCOP 332 - 20 (594 (754) 80-27 377 (1192)

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U. S. COAST & GEODETIC SURVEY
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SEP 18 1934

ROC. No. \_\_\_

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

### **DESCRIPTIVE REPORT**

Topographic Sheet No. D 6092b

State \_\_\_\_South Carolina

LOCALITY

St. Helena Island

Harbor River

1934

CHIEF OF PARTY

R.P. Haman

U.S. GOVERNMENT PRINTING OFFICE: 1994

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

SEP 18 1934

### TOPOGRAPHIC TITLE SHEET

Acc. 20.

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. D

REGISTER NO. 6092b

| State              | South Carolina                         |            |
|--------------------|--|------------|
| General locality   | St. Helena Island                      |            |
| Locality           | Harbor River                           |            |
| Scale 1: 10,000    | Date of survey March                   | , 1934     |
| Vessel             | M.V. Natoma                            |            |
| Chief of party     | Raymond P. Eyman                       |            |
| Surveyed by        | J. H. Tiller Jr.,                      |            |
| Inked by           | R. Pinckney                            |            |
| Heights in feet ab | poveto ground to top                   | s of trees |
| Contour, Approxima | ate contour, Form line interval        | feet       |
| Instructions dated | November 2                             | , 1938     |
| Remarks:           | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |            |
|                    |  |            |
|                    |  |            |

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# DESCRIPTIVE REPORT TO ACCOMPANY

# TOPOGRAPHIC SHEET NO. "D" HARBOR RIVER, SOUTH CAROLINA

1934

### INSTRUCTIONS:

Instructions for Project HT-159, November 2, 1933 were followed throughout.

### PURPOSE OF TOPOGRAPHY:

The topography of this area was to furnish control for the hydrography and aerial photographs. Only small areas around points that could be easily spotted on the photographs are shown in detail, except along beaches. Traverses were run on the beaches to show high water line.

### METHOD:

The usual methods of plane-table surveying were used. All topographic signals were located by cuts from triangulation stations, located intersection stations and traversing, also rod readings.

### EXTENT:

This sheet comprises a survey of the northern end of Hunting Island, Cedar Reef, Harbor Island Harbor River, and Johnson Creek, with many small creeks. This sheet comprises a survey of the area between latitudes 32° 22.2' and 32° 26.5', longitudes 80° 25.1' and 80° 28.9'

### DESCRIPTION:

The area surveyed on this sheet is comprised mainly of marsh lands. Hunting Island is rather heavily timbered, but this forms only a small portion of the surveyed area. The highwater mark is rether indistinct in this area. On high tides the marsh is mostly covered

with only the short tips of the grass showing. This grass delineates the river and creeks.

Two traverses were run on this sheet to locate the shore line on the cutside beach. The first was run from Harbor River to Johnson Creek and the second from Johnson Creek to Hunting Island lighthouse. The error of closure of the first traverse was three meters in orientation, the second error of closure was six meters in orientation. These errors were properly adjusted according to Special Publication No. 144. A traverse started on sheet "C" was completed on sheet "D". The error of closure of this traverse was six meters in orientation. This also was adjusted according to Special Publication No. 144.

### AERIAL PHOTOGRAPHS:

Aerial photographs were used in connection with the topography. No attempt was made to delineate the shore line except at set-ups that could be definitely spotted on the photographs. These small areas were shown in detail to assist the compilation party in compiling the shore line for finished charts.

### CONTROL:

The controal for this sheet consists of second, third, and fourth order triangulation established by this party in 1933 under Project HF-126, December 23, 1932.

# MAGNETIC DECLINATION:

Magnetic meridians were determined at triangulation stations EGG 1933, BUTCHERS 1837, MID 1933.

### ALUMINUM BACKED SHEETS:

An aluminum backed sheet was used and found to be very satisfactory in every respect.

### LANDMARKS:

Prominent landmarks are found on Form 567 accompanying this report.

### NAMES:

There are no new names on this sheet.

### STATISTICS:

| Area in square statute miles | 12.0 |
|------------------------------|------|
| Miles traversed              | 3.2  |
| Miles of shore line          | 3.0  |

Respectfully submitted, James H. Tiller J.

James H. Tiller, Jr. Observer.

Approved and forwarded;

Jack C. Semmons, Chief of Party,

Commanding Ship NATOMA.

| DIVISION OF | CHARTS, FILE | No |
|-------------|--------------|----|
|-------------|--------------|----|

Coinjock. N.C.

### DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

| 7- | 60 | 9 | 2 | h |
|----|----|---|---|---|
|----|----|---|---|---|

### LANDMARKS FOR CHARTS

| POSITION METHOD CHART   | The following determined escription given below, and sh  | ould be o   | charted:    |            |              |          | ř                               |                    |
|---|--|-------------|-------------|------------|--------------|----------|---------------------------------|--------------------|
| DESCRIPTION  LATITUDE  LONGITUDE  DATUM  METHOD OF DETERMINATION  PHUNTING ISLAND LIGHT  OUSE (abandoned light)  32 22 966.0 80 26 410.1 1927  Triang  1240  INDUILL  32 26 824.5 80 28 670.6 |  |             |             |            |              | Jack     | C. Samo                         | ns<br>Chief of Par |
| O.M. METERS O D.P. METERS DATUM MINATION  CHUNTING ISLAND LIGHT A  COUSE (abandoned light) 32 22 966.0 80 26 410.1 1927 Triang 1240  CINICILL A 32 26 224.5 80 28 670.6 **                    |  | •           |             | POSITION   |              |          |                                 |                    |
| #UNTING ISLAND LIGHT  | DESCRIPTION  | LAT         | ITUDE       | LON        | GITUDE       | DATUM    | METHOD<br>OF DETER-<br>MINATION | CHARTS<br>AFFECTE  |
| OUSE (abandoned light) 32 22 966.0 80 28 410.1 1927 Triang. 1240 INDUIL A 32 26 224.5 80 28 670.6 " " "   | :  | 0 1         | D.M. METERS | <b>9</b> 1 | D.P. METERS  | DATOM    |                                 |                    |
|   | Hunting Island Light <u>(a</u><br>Cuse (abandoned light) | 32 22       | 966.0       | 80 26      | 410.1        |          | Triang.                         | 1240               |
|   | INDUIL A   | 32 26       | 224.5       | 80 28      | 670.6        | -<br>17: | **                              | Ħ                  |
|   |  |             | _           |            | _            |          |                                 |                    |
|   |  |             | <u>'</u>    |            |              |          |                                 |                    |
|   |  |             |             |            |              |          |                                 |                    |
|   | ,  |             |             |            |              |          |                                 |                    |
|   |  | <del></del> |             |            | -            | <u></u>  |                                 | <del></del>        |
|   |  |             |             |            | <del> </del> |          |                                 |                    |
|   |  |             |             | ľ          | <u> </u>     |          |                                 |                    |
|   |  |             | ,           |            | _            |          |                                 |                    |
|   |  |             |             |            |              |          |                                 |                    |
|   |  |             |             |            |              |          |                                 |                    |
|   |  |             |             |            |              |          |                                 |                    |
|   |  |             |             |            |              |          | -                               |                    |
|   | •  |             |             |            | -            |          |                                 |                    |
|   |  |             |             |            |              |          |                                 |                    |

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive indentification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart permanent to chart. U.S. GOVERNMENT PRINTING OFFICE: 1934 25379

|                | 0    | Latitu |                  | CONTRACTOR OF THE PARTY OF THE | Longit | CONTRACTOR OF THE PARTY OF THE |  |
|----------------|------|--------|------------------|---|--------|---|--|
|                | 0    | •      | meters           | 0   | •      | meters  | 107  |
| B-             | 32   | 22     |                  | 80  | 27     | 939   |  |
| WIL            |      |        | (487) r          |   |        | (629)   |  |
| BELL           | 32   | 22     | <b>一种病性类型</b>    | 80  | 26     | 1243)   |  |
|                |      |        | (8)              |   |        | (326)   | 7  |
| BET            | 32   | 23     | 623 <sup>v</sup> | 80  | 27     | 1136  |  |
|                |      |        | (1225)           |   |        | (432)   |  |
| BOY            | 32   | 24     | 1248             | 80  | 28     | 920   |  |
|                |      |        | (600)            |   |        | ()  |  |
| CANT           | 32   | 24     | 478              | 80  | 27     | 1528  |  |
|                |      |        | (1370)           |   |        | (40)  |  |
| DUCK           | 32   | 23     | 595              | 80  | 28     | 165   |  |
|                |      |        | (1253)           | 20  |        | ()  |  |
| F              | 32   | 22     |                  | 80  | 26     | 153   |  |
|                |      |        | (1394)           |   |        | (1415)  |  |
| FF             | 32   | 24     | 1526             | 80  | 28     | 454   |  |
|                |      |        | (322)            |   |        | ()  |  |
| 0              | 32   | 22     |                  | 80  | 26     | 43  |  |
|                |      |        | (1118)           |   |        | (1525)  |  |
| GIRL           | 32   | 24     | 392 /            | 80  | 28     | 546   |  |
|                |      |        | (1456)           |   |        | ()  |  |
| H              | 32   | 22     |                  | 80  | 26     | 73  |  |
|                |      |        | (1086) <         |   |        | (1495)  |  |
| <del>III</del> | 32   | 24     | 1412             | 80  | 27     | 1164  |  |
| EISH           |      |        | (436)            |   |        | (404)   |  |
| HAM            | 32   | 24     | 134              | 80  | 27     | 870   |  |
|                |      |        | (1714)           |   |        | (698)   |  |
| HAT            | 32   | 23     | 588              | 80  | 28     | 789   |  |
|                |      |        | (1260)           |   |        | ()  |  |
| HEN            | 32   | 23     | 1094 /           | 80  | 28     | 1234  |  |
|                |      |        | (754)            |   |        | ()  |  |
| Ŧ              | 32   | 22     |                  | 80  | 25     | 18-   |  |
|                |      |        | (966)            |   |        | ()  |  |
| II             | 32   | 24     | 1224             | 80  | 27     | 942   |  |
|                |      |        | (624)            |   |        | (626)   |  |
| J              | 32   | 22     |                  | 80  | 25     |   |  |
|                |      |        | (875)            |   |        | (61)-   |  |
| K              | 32   | 22     |                  | 80  | 25     |   |  |
|                |      |        | (405)            |   |        | (214)   |  |
| <del>KK</del>  | 32   | 24     | 1008             | 80  | 27     | 616   |  |
| DOG            |      |        | (840)            |   |        | (952)   |  |
| F 0            | 32   | 23     | 77 -             | 80  | 25     |   |  |
|                |      |        | (1771)           |   |        | (348)~  |  |
| 肚              | • 32 | 24     | 1754             | 80  | 26     | 848   |  |
| Box            |      |        | (94)             |   |        | (720)   |  |
| M              | 32   | 23     | 852 '            | 80  | 25     |   |  |
|                |      |        | (996)            |   |        | (547)   |  |
| PIL            | 32   | 24     | 1287             | 80  | 26     | 702   |  |
|                |      |        | (561)            |   |        | (866)   | A STATE OF THE PARTY OF THE PAR |

|               | Latitude<br>o meters |      |         |             | Longit |                 |
|---------------|----------------------|------|---------|-------------|--------|-----------------|
|               | 0                    |      |         | 0           |        | meters          |
| N-            | 32                   | 23   | 1159    | 80          | 25     |                 |
| CE            | 32                   | 24   | (689)   |             | 0.0    | (519)           |
| NN O          | 36                   | 64   | 1376    | 80          | 26     | 323             |
| NAIL          | 32                   | 22   | (472)   | 80          | 90     | (1245)          |
| WETT          | UL.                  | 20   | (568)   | 80          | 26     | 1422            |
| 0             | 32                   | 23   | 1049    | 80          | 25     | (146)           |
| ILL           | 02                   | 20   | (799)   | 00          | GG     | (930)           |
| 00            | 32                   | 24   | 1222    | 80          | 26     | (239)           |
| 00            | 02                   | ~=   | (626)   | 00          | 20     | 128             |
| OAK           | 32                   | 23   | 92      | 80          | 28     | (1440) × 783 ×  |
| VAL           | 02                   | 20   | (1756)  | 80          | 60     |                 |
| ₽             | 32                   | 23   | 998     | 80          | 26     | 428             |
| SAL           | 02                   | 20   | (850)   | 00          | 20     |                 |
| PP            | 32                   | 24   | 454     | 80          | 25     | (1140)          |
|               | 04                   | ~=   | (1394)  | 00          | NO.    | (135)           |
| <del>Q</del>  | 32                   | 23   | 798 /   | 80          | 26     | 483             |
| PIPP          | OI.                  | 20   | (1050)  | 00          | 20     |                 |
| QQ            | 32                   | 23   | 1720    | 80          | 25     | (1085)          |
| .44           | U.S.                 | 20   | (128)   | 00          | 20     | (281)           |
| RR            | 32                   | 23   |         | 80          | 25     | (101)           |
|               | 36                   | 63   | 1251    | 80          | 60     | (905)           |
| BIRD          | 32                   | 07   | (597)   |             | 28     | (285)           |
| RAT           | 36                   | 23   | 234     | 80          | 60     | 1274            |
|               | 70                   | O.E. | (1614)  | 00          | 077    | 3500            |
| <del>86</del> | 32                   | 25   | 426     | 80          | 27     | 1522            |
| SAP           | 70                   | 00   | (1422)  |             | 0.0    | (46)            |
| SAW           | 32                   | 22   | (3300)/ | 80          | 27     | 1005            |
| -             | 70                   | 04   | (1196)  |             | 00     | (564)           |
| SON           | 32                   | 24   | 677     | . 80        | 28     | 800             |
|               |                      | O.F. | (1171)  |             | 04     | ()              |
| TT.           | 32                   | 25   | 1077    | 80          | 26     | 1481            |
| BINYI'        |                      |      | (771)   |             |        | (87)            |
| TACK          | 32                   | 22   | 10051   | 80          | 27     | 134             |
|               |                      | - 64 | (891)   |             | - 00   | (1434)          |
| TED           | 32                   | 24   | 125     | 80          | 28     | 1068            |
|               |                      |      | (1723)  |             |        | ()              |
| <del>U</del>  | 32                   | 23   | 1109    | 80          | 27     | 931 -           |
| POT           |                      |      | (739)   |             |        | (637)           |
| <del>UU</del> | 32                   | 25   | 607     | 80          | 26     | 1384            |
| BAR'3'        |                      |      | (1241)  |             |        | (184)           |
| UNO           | 32                   | 23   | 573 -   | 80          | 26     | 877-            |
|               | A                    |      | (1275)- |             |        | (691)           |
| ₩ ,           | 32                   | 25   | 252     | 80          | 26     | 1234            |
| BAT'5         |                      |      | (1596)  |             |        | (334)           |
| WW.           | 38                   | 26   | 1       | 80          | 26     | 1041            |
|               |                      |      | (       | 30, 30, 30, |        | (527)           |
| WEB           | 32                   | 23   | 1592    | 80          | 27     | 426 °           |
|               |                      |      | (256)   | 7           |        | (1142)          |
| XX            | 32                   | 26   | 473     | 80          | 28     | 521 ×           |
| BLOW          |                      |      | () v    |             |        | () Same as BLO. |

TOPOGRAPHIC SIGNALS - SHEET "D"

Page 3.

|     | Latitude |    |                |            | Longit | ude               |  |
|-----|----------|----|----------------|------------|--------|-------------------|--|
|     | 0        | ,  | meters         | 0          | ,      | meters            |  |
| YAL | 32       | 23 | 289 × (1559) × | 80         | 26     | 1053<br>(515) ~   |  |
| ZEV | 32       | 22 | (159) -        | <b>8</b> 0 | 28     | 1165 ~<br>(403) ~ |  |

OK 01 19 1