

8449  $E/2$  &  $W/2$

Diag. Cht. No. 369-5

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. Ph-54(49)A Office No. T-8449 E & W

LOCALITY

State NEW YORK

General locality BROOKLYN

Locality NEWTON CREEK

1949

CHIEF OF PARTY

E.R. McCarthy, Chief of Field Party.

H.A. Paton, Baltimore Photogrammetric Office

LIBRARY & ARCHIVES

DATE December 18, 1953

8-1870-1 (1)

8449  $E/2$  &  $W/2$

DATA RECORD

T - 8449

Project No. (II): Ph-54(49)A      Quadrangle Name (IV):

Field Office (II): Babylon, New York

Chief of Party: E. R. McCarthy

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: H. A. Paton

Instructions dated (II) (III): 20 October 1949  
3 February 1950

Copy filed in Division of  
Photogrammetry (IV)

Office Files

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:5,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): 7-20-50      Date reported to Nautical Chart Branch (IV): 7-20-50

Applied to Chart No.

Date:

Date registered (IV): 30 Oct 1953

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): AMERICAN, 1932

Lat.: 40° 43' 42.736" (1318.2m)      Long.: 73° 57' 33.101" (776.8m)

Adjusted

~~Unadjusted~~

Plane Coordinates (IV):

State: New York

Zone: Long Island

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,  
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



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Not applicable

Areas contoured by various personnel  
 (Show name within area)  
 (II) (III)

# DATA RECORD

Field Inspection by (II): H.G. Murphy  
J. T. Beecher

Date: Dec. 1949

Planetable contouring by (II): not applicable

Date:

Completion Surveys by (II): None

Date:

Mean High Water Location (III) (State date and method of location):  
Photographs dated 27 April 1949

Projection and Grids ruled by (IV): T. L. Janson

Date: 3/10/50

Projection and Grids checked by (IV): F. H. Tarcza

Date: 3/17/50

Control plotted by (III): F. J. Tarcza

Date: 3/17/50

Control checked by (III): W. L. Lineweaver

Date: 3/20/50

Radial Plot ~~by (III): F. J. Tarcza~~  
Stereoscopic Instrument compilation by (III): F. J. Tarcza

Date: 3/23/50

Planimetry  
Stereoscopic Instrument compilation (III):  
Contours

Date:

Date:

Manuscript delineated by (III): G.N. Nathan

Date: 6/28/50

Photogrammetric Office Review by (III): J.W. Vonasek

Date: 7/10/50

Elevations on Manuscript  
checked by (II) (III):

Date:



Camera (kind or source) (III): USC&GS single-lens, Type "D" camera, focal length 12 inches.

| Number   | Date          | Time     | Scale  | Stage of Tide |
|--|---------------|----------|--------|---------------|
| 49-D- <del>41</del> through<br>49-D-48                   | 27 April 1949 | 1449 EST | 1:5000 | approx. MLW   |
| 49-D- <del>32</del> through<br>49-D-38                   | "             | 1441 EST | 1:5000 | " "           |
| 49-D-20 through<br>49-D-26                               | "             | 1432 EST | 1:5000 | " "           |
| 49-D- <del>12</del> through<br>49-D- <del>16</del><br>19 | "             | 1422 EST | 1:5000 | " "           |

Tide (III)

Reference Station: New York  
Subordinate Station: Hunters Point, Newtown Creek  
Subordinate Station: English Kills entrance, Newtown Creek  
N. 3rd Street, Brooklyn

| Ratio of<br>Ranges | Mean<br>Range | Spring<br>Range |
|--------------------|---------------|-----------------|
| 1.0                | 4.4           | 5.3             |
| 0.9                | 4.1           | 4.9             |
| 1.0                | 4.2           | 5.0             |
| 0.9                | 4.1           | 5.0             |

Washington Office Review by (IV): Everett H. Ramey

Date: 16 July 1952

Final Drafting by (IV): Taylor  
Berry

Date: 15 Feb 53

Drafting verified for reproduction by (IV): Hallin

Date: 2 March 53

Proof Edit by (IV): S. Steyler

Date: 3/26 53

Land Area (Sq. Statute Miles) (III): 7 1/2

Shoreline (More than 200 meters to opposite shore) (III): 3 miles

Shoreline (Less than 200 meters to opposite shore) (III): 6 miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 76

Recovered: 41

Identified: 42

Number of BMs searched for (II): 4

Recovered: 4

Identified: 2

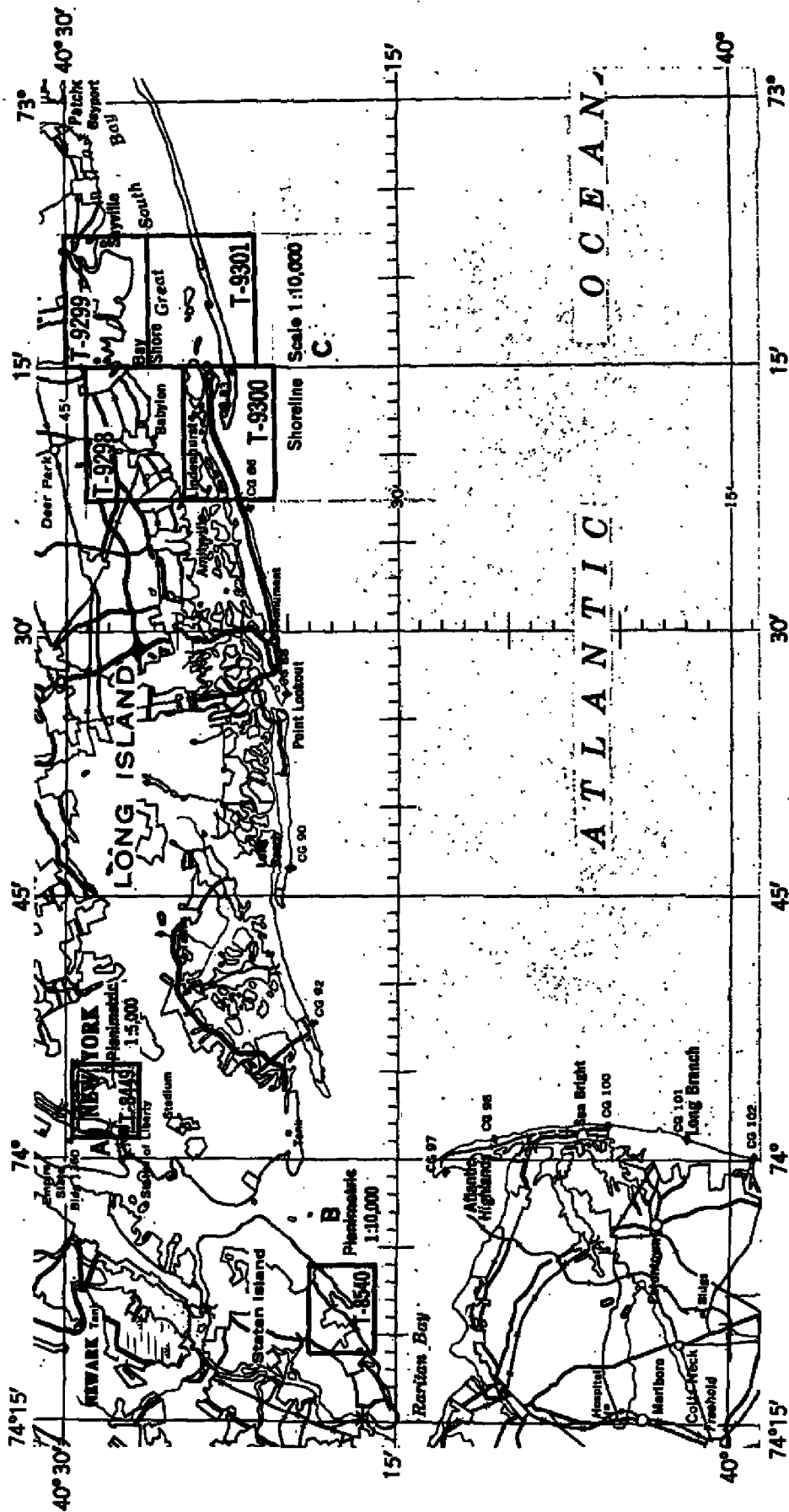
Number of Recoverable Photo Stations established (III): 49 SHZ

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

ENGINEERING AND SHORELINE MAPPING PROJECT PH-54 A-B (49)

NEW YORK, Long Island





## Summary To Accompany Shoreline Survey T-8449

Shoreline survey T-8449 is the only survey included in Project Ph-54(49)A. It covers Newtown Creek which marks the boundary between the boroughs of Brooklyn and Queens in New York.

This project is a graphic compilation. Field operations included field inspection of shoreline and some interior features and the recovery and identification of horizontal control.

Instructions for this project specified that this survey was to fulfill the requirements for a planimetric survey. In which case a field completion survey would have been done. Subsequently the decision was made to treat the survey as a shoreline survey. As compiled the manuscript has more detail than is customarily shown on a shoreline survey but does not fulfill all the requirements for a planimetric survey.

This survey was compiled at a scale of 1:5,000 and covers  $2\frac{1}{2}'$  in latitude by  $3\frac{1}{2}'$  in longitude. Items registered under T-8449 will include a descriptive report and a cloth-mounted lithographic print of the manuscript at the same scale, but in two parts designated as T-8449 E and T-8449 W.

Field Inspection Report, T-8449

2. Aereal field inspection.--The area is heavily industrialized and virtually all types of manufacturing industries are represented. The navigable streams leading to and through it afford good water transportation and docking facilities are numerous.

Rail and highway transportation facilities are excellent. There are several elevated highways from east to west and one bridge over the East River, as well as tunnels under the river, serving the area. Many railroads and a number of railroad yards are to be found.

The field inspection is believed to be complete.

Photographic coverage is adequate and the quality excellent.

3. Horizontal control.--Listed below are U. S. Engineer stations recovered and identified:

|              |               |
|--------------|---------------|
| B-5, 1929    | TOW, 1932     |
| YARD, 1929   | CALVARY, 1932 |
| SUNOCO, 1932 | CONTROL, 1929 |
| CANAL, 1932  | WALL, 1929    |

Following is a list of "lost" Coast and Geodetic Survey Stations:

|   |                                    |
|---|------------------------------------|
| HECKER, 1932                                | RIDGEWOOD GATEHOUSE, 1932          |
| SMITH AND GRAY TOWER, 1903                  | CHIMNEY, 1903                      |
| TOWER (JOHNSON BLDG.), 1932                 | CONSULERS BREWERY, 1903            |
| COVERT AVE. SCHOOLHOUSE, 1932               | ROOF TANK (LOFT CANDY), 1932       |
| VADSCO, 1932                                | STACK (NEW YORK STEAM CORP.), 1932 |
| EPPIG BREWERY, 1903                         |                                    |
| GAS HOLDER (CONSOLIDATED GAS COMPANY), 1932 |                                    |

Station VADSCO, 1932, is destroyed but reference mark No. 1 was recovered and identified.

Station ROOF TANK (LOFT CANDY), 1932, is destroyed but a new tank was built on the same foundation. This tank was identified for use in the radial plot.

COCHEO, 1932, is believed to exist but was not recovered as it is now covered by roofing material.



4. Vertical control.--Bench marks Bridge # 1, 2, 3, and 4 were recovered. Nos. 1 and 3 were identified. *ENR Not mapped.*

5. Contours and drainage.--Inapplicable.

6. Woodland cover.--Inapplicable. *See Sub-heading 67*

7. Shoreline and alongshore features.--The shoreline is almost an unbroken line of wharves and bulkheads. Where there were none of these, the mean high-water line was ascertained by taped distances and inked on the photographs.

The photographs were taken April 27, 1949, and all piers, wharves, landings, etc., are shown.

During the recent war all submarining cable and submarine pipe line signs were removed. Inasmuch as the cables and pipelines are a considerable number of feet underground before the streams are reached, it was impossible to locate the shore ends.

The existing cable and pipeline areas as now charted were checked with the engineers of Consolidated Edison Co., Bell Telephone Co., and Socony Vacuum Company, and found to be correct.

8. Offshore features.--There are no offshore features within the limits of this sheet.

9. Landmarks and aids.--Landmarks were checked by riding the west shore of East River. Two were deleted because they are no longer predominating features.

There is one aeronautical aid. It was pricked direct, on photograph 49 D 13.

The three fixed aids to navigation were pricked direct and Form 524 executed. *See Sub-heading 38 52415*

Forms 567; Nonfloating Aids or Landmarks for Charts, is being submitted. *Copies attached.*

10. Boundaries, monuments and lines.--The line between Kings and Queens counties falls in the northern section of the sheet. It is shown on photographs 49 D 12, 13, 21, and 36. A photostatic copy of a section of the Administrative Code of New York, describing this line is being submitted with the data for this subproject.

*See Sub-heading 68*



11. Other control.--None.

12. Other interior features.--Three discrepancies were noted in horizontal bridge clearances. These were noted and rechecked. A report has been made by letter to the District Engineer, New York City, a copy of which is a part of this report.\*

\* Copy not attached but is filed as Nautical Chart Letter 128 (1950), Div of Charts. 5NR

Horizontal and vertical clearances on two new fixed highway bridges--Koski'sko and Midtown--were obtained from the Chief Engineer for the Borough of Brooklyn.

Following is a tabulation of bridge data:

| <u>NAME</u>                  | <u>TYPE</u> | <u>HORIZ.CL.</u> | <u>VERT.CL.</u> | <u>PHOTO.NO.</u> |
|------------------------------|-------------|------------------|-----------------|------------------|
| ✓ Borden Ave.                | R (Hwy.)    | 51.0             | 4.0             | 49D20            |
| Grand <del>Street</del> Ave. | Sw (Hwy.)   | 88.5**           | 6.5*            | 49D14            |
| ✓ Greenpoint Ave.            | B (Hwy.)    | 149.9            | 27.2            | 49D20            |
| Hunters Pt. Ave.             | B (Hwy.)    | 59.4*            | 8.0             | 49D20            |
| ✓ Koski'sko                  | F (Hwy.)    | 250.0            | 125.0           | 49D14            |
| ✓ Long I. City               | Sw (R.R.)   | 46.0             | 0.5*            | 49D20            |
| ✓ Midtown Hwy.               | F (Hwy.)    | 90.0             | 90.0            | 49D21            |
| ✓ Metropolitan Ave.          | B (Hwy.)    | 86.0             | 10.5            | 49D14            |
| Vernon Ave.                  | B (Hwy.)    | 152.0*           | 25.0            | 49D42            |
| (not known)                  | Sw (R.R.)   | 16.5             | 3.2             | 49D12            |
| ✓ Long I. City               | B (R.R.)    | 50.0             | 14.0            | 49D20            |

\*Discrepancy with bridge book.

\*\* See sub-heading 69

13. Geographic names.--A special report on this subject is being submitted with the data for this subproject.

14. Special reports and supplemental data.--The only supplemental data is a copy of the Administrative Code of New York, describing the Kings-Queens Co. line.

*Filed in General Files, Div. of Photogrammetry*

The Geographic Names report is the only special report. *Filed in the Geographic Names Section, Div. of Charts.*

All data for this sheet have been submitted under one transmitting letter of which this report is a part.

Respectfully submitted,  
23 January 1950

*Herschel G. Murphy*  
Herschel G. Murphy, *Hyd. & S.*  
Carto. Survey Aid

*Sm*



# PHOTOGRAMMETRIC PLOT REPORT

Project Ph-54(49)A

Survey T-8449

## 21. AREA COVERED

This photogrammetric plot is for a single planimetric survey T-8449, Project Ph-54(49)A, covering the entire length of Newton Creek on the west side of the East River in New York City.

## 22. METHOD-RADIAL PLOT

### Map Manuscripts

The map projection furnished by the Washington Office is on acetate, ruled with polyconic projection in black and Long Island grid in red, at a scale of 1:5,000. No base sheet was furnished.

All control stations were plotted on the map projection sheet using meter bar and beam compass. Substitute stations were plotted graphically with the aid of a steel protractor.

A sketch showing the distribution of control and photograph centers is attached to this report.

### Photographs

The photographs used in this radial plot are all single lens photographs taken with the type D camera, focal length 12 inches, contact scale 1:10,000 and ratioed to scale 1:5,000. Thirty-two (32) photographs were used in this radial plot, numbered as follows:

49-D-11 to 49-D-26 incl.

49-D-31 to 49-D-38 incl.

49-D-41 to 49-D-48 incl.

### Templets

Vinylite templets were made of all photographs used. The photographs were ratioed with collimation marks made by a special glass plate in the enlarger. A master templet was used to correct for paper distortion.

### Closure and Adjustment to Control

The radial plot was constructed directly on the map projection sheet, since no base sheet was furnished. With sufficient control available, there was no difficulty in the western half of the survey. On the eastern side, however, the first flight reaches only four of the control stations. In the southeast corner of the survey several tilted photographs were found. Since all control points are elevated, church spires, stacks, tanks, etc., it was not possible to get a satisfactory radial plot in this



## 22. METHOD-Radial Plot (continued)

### Closure and Adjustment to Control (continued)

area with the original templets. An approximate radial center was obtained from the relief displacement of tall stacks, gas tanks and tall vertical buildings. With the new templets made of three of the badly tilted photographs, a satisfactory radial plot was completed. It was then possible to hold all control stations identified.

### Transfer of photogrammetric points

The positions of all photographic centers and pass points were transferred to the map projection sheets by turning over the completed radial plot on a light table and pricking direct on the back of the map manuscript.

## 23. ADEQUACY OF CONTROL

Except along the eastern edge of the survey, there is sufficient control for an accurate radial plot. At least one station near the northeast corner of the survey would have strengthened the plot considerably on the eastern side.

It was possible to hold all control stations identified and used in the radial plot. Two of the U.S.E.D. stations identified by substitute points could not be used in the radial plot. The geographic position for WALL (USED) 1929 was not furnished and the field information on pricking card for SUB.PT. CONTROL (USED) 1929 was omitted. However, there were sufficient control stations in the area so that these two were not needed. CONTROL (USED) 1929 was pricked direct with the aid of an old ground photograph attached to the pricking card.

## 25. PHOTOGRAPHY

Photographic coverage was adequate for a good radial plot. The definition of the photographs was excellent. There are several tilted photographs. In most cases there was an abundance of control so that the tilt did not affect the plot. In the southeastern area it was necessary to correct the templets for tilt before a good plot was obtained. Since control points in this area were church and hospital spires, no tilt determination was practical. However, a method was devised for determination of a radial center for elevated points. Since these are large scale, low altitude photographs, there was considerable relief displacement. A tall vertical object, such as stack, gas tank, and vertical wall of a tall building, was selected near the edge of a photograph. The direction of image displacement between the top and bottom points were extended toward the photograph center with a straightedge. A line was drawn near the center of the photograph. The radial center is somewhere along this line. By selecting several other points, a number of lines were drawn, intersecting at a point. This then becomes the radial center which was used for correcting the templets for

25. PHOTOGRAPHY (continued)

tilt. The radial center used is probably near the nadir point and not a true radial center for all points but represents a practical method of considerably improving the templets where a tilt determination is not possible due to lack of elevations. The corrections made by this method are to compensate for tangential error caused by relief displacement from a radial center at a distance from the principal point. The tangential errors due to tilt are probably small since the scale is good. The major error on these photographs is due to relief.

New templets were made for three photographs, 49-D-14, 49-D-24 and 49-D-25, which were found to be badly tilted. There were other slightly tilted photographs but, with sufficient control available, no corrections for tilt were necessary.

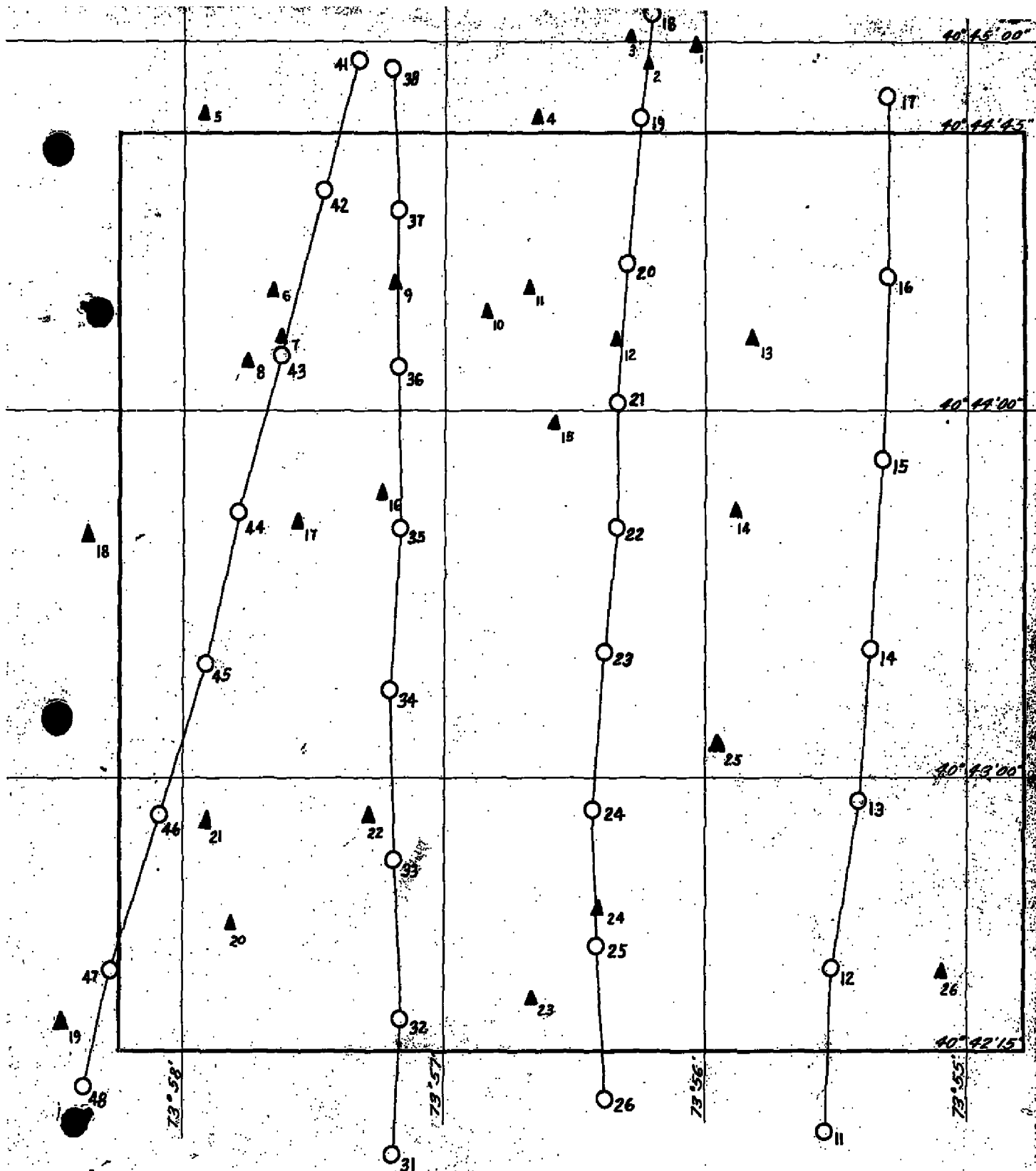
Respectfully submitted

Frank J. Tarcza  
Frank J. Tarcza  
Cartographer (Photo.)

| No.   | STATION  | IDENTIFICATION |
|-------|--|----------------|
| 1.    | LONG ISLAND CITY, LOUIS SHERRY<br>CANDY MANUFACTURING CO., FLAGPOLE, 1932          | Direct         |
| 2.    | LONG ISLAND CITY, BANK OF MANHATTAN TRUST CO.,<br>FLAGPOLE, 1932                   | "              |
| 3.    | LONG ISLAND CITY, HIGH SCHOOL, 1903  | "              |
| 4.    | LONG ISLAND CITY, ST. JOHN'S HOSPITAL DOME, 1932                                   | "              |
| 5.    | BLACKWELL'S ISLAND REEF BEACON, 1932   | "              |
| 6.    | LONG ISLAND CITY, JACK FROST SUGAR CO., NORTH,<br>MIDDLE, AND SOUTH CHIMNEYS, 1932 | "              |
| 7.    | TOW (USED) 1932  | "              |
| 8.    | CANAL (USED) 1932  | Sub. Pt.       |
| 9.    | SUNOCO (USED) 1932   | Sub. Pt.       |
| 10.   | YARD (USED) 1929   | Sub. Pt.       |
| 11.   | CONTROL (USED) 1929  | Direct         |
| 12.   | LONG ISLAND CITY, NATIONAL CONTAINER CO., ROOF TANK,<br>1932                       | Direct         |
| 13.   | BLISSVILLE, ST. RAEPHEL'S CATHOLIC CHURCH SPIRE, 1932                              | Direct         |
| 14.   | CALVARY (USED) 1929  | Direct         |
| 15.   | BROOKLYN, AMERICAN BAG CO., ROOF TANK, 1932  | "              |
| 16.   | BROOKLYN, ST. ANTHONY'S CATHOLIC CHURCH SPIRE, 1932                                | "              |
| 17.   | AMERICAN (N.Y.) 1932   | Sub. Pt.       |
| 18.   | MANHATTAN, EDISON GAS & ELECTRIC CO., NORTH AND<br>SOUTH TWIN STACKS, 1932         | Direct         |
| 19.   | BROOKLYN, EDISON CO., EAST AND WEST STACKS, 1932                                   | Direct         |
| 20.   | BROOKLYN, WILLIAMSBURG SAVINGS BANK, DOME, 1932                                    | Direct         |
| 21.   | FULTON, (N.Y.), 1932   | Direct         |
| 22.   | SCHOOLHOUSE NO. 143, 1903  | Direct         |
| ✓ 23. | BROOKLYN, CHURCH OF THE HOLY TRINITY, EAST AND WEST<br>SPIRES, 1932                | Direct         |
| ✓ 24. | BROOKLYN, ST. CATHERINE'S HOSPITAL SPIRE, 1932                                     | Direct         |

| No. | STATION   | IDENTIFICATION |
|-----|---|----------------|
| 25. | BROOKLYN, UNION GAS CO., GAS HOLDER, 1932                             | Direct         |
| 26. | BROOKLYN, ST. ALOYSIUS CATHOLIC CHURCH, EAST and<br>WEST SPIRES, 1932 | Direct         |







MAP T. 8449

PROJECT NO. Ph-54(49)A

SCALE OF MAP 1:5000

SCALE FACTOR 1.000

| STATION  | SOURCE OF INFORMATION (INDEX)    | DATUM      | LATITUDE OR $\nu$ -COORDINATE<br>LONGITUDE OR $\lambda$ -COORDINATE | DISTANCE FROM GRID IN FEET.<br>OR PROJECTION LINE IN METERS<br>FORWARD (BACK) | DATUM CORRECTION | N.A. 1927 - DATUM<br>DISTANCE FROM GRID OR PROJECTION LINE<br>IN METERS<br>FORWARD (BACK) | FACTOR DISTANCE<br>FROM GRID OR PROJECTION LINE<br>IN METERS<br>FORWARD (BACK) |
|--|----------------------------------|------------|---|---|------------------|---|--|
| 1 AMERICAN, (N.Y.)<br>1932   | N.Y. City<br>& vicinity<br>P. 36 | NA<br>1927 | 40 43 42.736<br>73 57 33.101  |   |                  | 1318.2 532.5<br>776.8 631.2   | .  |
| SUB. PT. AMERICAN<br>(N.Y.) 1932                                   |                                  |            | 40 43<br>73 57  |   |                  | 1307.1 543.6<br>763.0 645.0   | .  |
| 21 FULTON (N.Y.) ✓<br>1932   | NY City<br>& Vicinity<br>P. 36   | "          | 40 42 52.980<br>73 57 56.477  |   |                  | 1634.2 216.5<br>1325.6 82.7   | .  |
| BROOKLYN, EDISON<br>CO., EAST STACK, ✓<br>1932                     | G-2477<br>P. 114                 | "          | 40 42 18.631<br>73 58 48.359  |   |                  | 574.7 1276.1<br>1135.2 273.3  | w. of map limits   |
| BROOKLYN, EDISON<br>CO., WEST STACK, ✓<br>1932                     | N.Y. City<br>& Vic.<br>P. 115    | "          | 40 42 18.714<br>73 58 51.860  |   |                  | 577.3 1273.5<br>1217.4 191.1  | w. of map limits   |
| 24 BROOKLYN ST.<br>CATHERINE'S HOSPI-<br>TAL SPIRE 1932            | "<br>" "                         | "          | 40 42 38.781<br>73 56 25.886  |   |                  | 1196.2 654.5<br>607.6 800.8   | .  |
| 23 BROOKLYN CHURCH<br>OF THE HOLY TRINITY<br>EAST SPIRE, 1932      | "<br>" "                         | "          | 40 42 25.189<br>73 56 40.303  |   |                  | 777.0 1073.8<br>946.1 462.4   | .  |
| 22 BROOKLYN ST.<br>ALOYSIUS CATH.<br>CH. E. SPIRE, 1932            | "<br>" "                         | "          | 40 42 27.744<br>73 54 52.010  |   |                  | 855.8 995.0<br>1220.9 187.6   | .  |
| 20 BROOKLYN ST.<br>ALOYSIUS CATH.<br>CH. W. SPIRE, 1932            | "<br>" "                         | "          | 40 42 28.047<br>73 54 52.514  |   |                  | 865.1 985.6<br>1232.7 175.7   | .  |
| 19 BANK OF MANHATTAN<br>TRUST CO. FLAGPOLE,<br>1932                | "<br>P. 136                      | "          | 40 44 59.334<br>73 56 12.534  |   |                  | 1830.2 20.5<br>294.0 1113.6   | N. of map limits   |
| LONG ISLAND CITY,<br>LOUIS SHERRY CANDY<br>MFG. CO., F. FOLE, 1932 | "<br>" "                         | "          | 40 45 03.764<br>73 56 01.696  |   |                  | 116.1 1734.7<br>39.8 1367.8   | N. of map limits   |
| 25 BROOKLYN UNION<br>GAS CO., GAS<br>HOLDER, 1932                  | "<br>P. 146                      | "          | 40 43 05.461<br>73 55 59.561  |   |                  | 168.5 1682.3<br>1398.0 10.3   | .  |

1 FT. = 3048006 METER

COMPUTED BY: W.L. Lineweaver

DATE March 8, 1950

CHECKED BY: F.J. Tarcza

DATE 3-10-50



MAP T-8442

PROJECT NO. Ph-54(49)

SCALE OF MAP 1:5000

SCALE FACTOR 1.000

| STATION   | SOURCE OF INFORMATION (INDEX) | DATUM        | LATITUDE OR y-COORDINATE<br>LONGITUDE OR x-COORDINATE |        | DISTANCE FROM GRID IN FEET.<br>OR PROJECTION LINE IN METERS |        | DATUM CORRECTION | N.A. 1927 - DATUM<br>FROM GRID OR PROJECTION LINE<br>IN METERS |        | FACTOR DISTANCE<br>FROM GRID OR PROJECTION LINE<br>IN METERS |        |
|---|-------------------------------|--------------|---|--------|---|--------|------------------|--|--------|--|--------|
|   |                               |              | FORWARD   | (BACK) | FORWARD   | (BACK) |                  | FORWARD  | (BACK) | FORWARD  | (BACK) |
| BROOKLYN WILLIAMS-<br>BURG SAVINGS BANK,<br>DOME, 1932            | N.Y. City<br>& Vic.<br>P. 146 | N.A.<br>1927 | 40  | 42     | 36.455  |        |                  | 1124.5   | 726.3  | .  | .      |
|   |                               |              | 73  | 57     | 46.134  |        |                  | 1082.9   | 325.5  |  |        |
| BROOKLYN CHURCH OF<br>THE HOLY TRINITY,<br>WEST SPIRE, 1932       | N.Y. City<br>& Vic.<br>P. 115 | "            | 40  | 42     | 25.109  |        |                  | 774.5  | 1076.2 | .  | .      |
|   |                               |              | 73  | 56     | 41.075  |        |                  | 964.2  | 444.2  |  |        |
| BROOKLYN ST. ANTHONY'S<br>CATH. CHURCH SPIRE,<br>1932             | "<br>P. 146                   | "            | 40  | 43     | 45.840  |        |                  | 1414.0   | 436.8  |  |        |
|   |                               |              | 73  | 57     | 14.978  |        |                  | 351.5  | 1056.5 |  |        |
| BROOKLYN AMERICAN<br>BAG CO., ROOF TANK,<br>1932                  | "<br>P. 146                   | "            | 40  | 43     | 58.529  |        |                  | 1805.4   | 45.4   | .  | .      |
|   |                               |              | 73  | 56     | 34.108  |        |                  | 800.3  | 607.6  |  |        |
| LONG ISLAND CITY,<br>NATIONAL CONTAINER<br>CO., ROOF TANK, 1932   | "                             | "            | 40  | 44     | 13.069  |        |                  | 403.1  | 1447.6 | .  | .      |
|   |                               |              | 73  | 56     | 20.855  |        |                  | 489.3  | 918.5  |  |        |
| LONG ISLAND CITY,<br>ST. JOHN'S HOSPITAL<br>DOME, 1932            | "<br>P. 147                   | "            | 40  | 44     | 48.302  |        |                  | 1489.9   | 360.8  | N. of map limits   |        |
|   |                               |              | 73  | 56     | 39.306  |        |                  | 922.2  | 485.5  |  |        |
| BLISSVILLE ST.<br>RAEPHEL'S CATH.<br>CHURCH SP., 1932             | "                             | "            | 40  | 44     | 13.741  |        |                  | 423.9  | 1426.9 | .  | .      |
|   |                               |              | 73  | 55     | 49.096  |        |                  | 1152.0   | 255.9  |  |        |
| LONG ISLAND CITY,<br>JACK FROST SUGAR CO.,<br>N. CHIMNEY, 1932    | "                             | "            | 40  | 44     | 20.566  |        |                  | 634.4  | 1216.4 | .  | .      |
|   |                               |              | 73  | 57     | 39.307  |        |                  | 922.3  | 485.5  |  |        |
| LONG ISLAND CITY,<br>JACKFROST SUGAR CO.,<br>MIDDLE CHIMNEY, 1932 | "<br>+                        | "            | 40  | 44     | 19.895  |        |                  | 613.7  | 1237.1 | .  | .      |
|   |                               |              | 73  | 57     | 39.533  |        |                  | 927.6  | 480.2  |  |        |
| LONG ISLAND CITY,<br>JACK FROST SUGAR CO.,<br>SOUTH CHIMNEY, 1932 | "                             | "            | 40  | 44     | 19.226  |        |                  | 593.0  | 1257.7 | .  | .      |
|   |                               |              | 73  | 57     | 39.754  |        |                  | 932.7  | 475.0  |  |        |
| MANHATTAN EDISON GAS<br>& ELECTRIC CO.<br>SOUTH TWIN STACK, 1932  | "                             | "            | 40  | 43     | 38.421  |        |                  | 1185.1   | 665.6  | w. of map limits   |        |
|   |                               |              | 73  | 58     | 22.772  |        |                  | 534.4  | 873.6  |  |        |
| MANHATTAN EDISON GAS<br>& ELEC. CO., NORTH<br>TWIN STACK, 1932    | "                             | "            | 40  | 43     | 39.016  |        |                  | 1203.5   | 647.3  | w. of map limits   |        |
|   |                               |              | 73  | 58     | 24.177  |        |                  | 567.4  | 840.7  |  |        |

1 FT. = 3048006 METER

COMPUTED BY: W.L. Lineaver

DATE March 8, 1950

CHECKED BY: F.J. Tarcza

DATE March 10, 1950

M-2388-12



MAP T-8449

PROJECT NO. Ph-54(49)A

SCALE OF MAP 1:5000

SCALE FACTOR 1.000

| STATION                                 | SOURCE OF INFORMATION (INDEX) | DATUM                  | LATITUDE OR $\psi$ -COORDINATE<br>LONGITUDE OR $\chi$ -COORDINATE | DISTANCE FROM GRID IN FEET,<br>OR PROJECTION LINE IN METERS | DATUM CORRECTION | N.A. 1927 - DATUM<br>DISTANCE FROM GRID OR PROJECTION LINE<br>IN METERS | FACTOR DISTANCE<br>FROM GRID OR PROJECTION LINE<br>IN METERS |
|---|-------------------------------|------------------------|---|---|------------------|---|--|
|   |                               |                        |   | FORWARD (BACK)  |                  | FORWARD (BACK)  | FORWARD (BACK)   |
| BLACKWELLS ISLAND<br>REEF, BEACON, 1932 | N.Y.<br>City &<br>Vic. P. 148 | N. A.<br>1927          | 40 44 46.895  |   |                  | 1446.5 404.2  | N. of map limits   |
| SCHOOL HOUSE NO. 143, 1903              | N.Y. City<br>& Vic.<br>P. 219 | "                      | 73 57 53.623  |   |                  | 1258.0 149.6  |  |
| LONG ISLAND CITY<br>HIGH SCHOOL, 1903   | G-1228<br>P. 232              |                        | 40 42 54.515  |   |                  | 1681.6 169.2  |  |
| CONTROL (USED)<br>1929                  | USED<br>photostat             | Long<br>Island<br>Grid | 73 57 17.018  |   |                  | 399.4 1008.9  |  |
| TOW, (USED) 1932                        | USED<br>Photostat             | "                      | 40 45 04.644  |   |                  | 143.2 1707.5  | N. of map limits   |
| CALVARY (USED)<br>1929                  | USED<br>Photostat             | "                      | 73 56 14.728  |   |                  | 345.5 1062.1  |  |
| SUNOCO (USED)<br>1932                   | USED<br>Photostat             | "                      | 186,978.92  | 978.92 (1021.08)  |                  | 298.4 (311.2)   |  |
| YARD (USED)<br>1929                     | USED<br>Photostat             | "                      | 2,015,252.72  | 1,252.72 (747.28)   |                  | 381.8 (227.8)   |  |
| CANAL (USED)<br>1932                    | USED<br>Photostat             | "                      | 186,122.98  | 122.98 (1877.02)  |                  | 37.5 (572.1)  |  |
| SUB. PT. SUNOCO<br>(USED) 1932          | USED<br>Photostat             | "                      | 2,010,883.37  | 881.37 (1118.63)  |                  | 268.6 (341.0)   |  |
| SUB. PT. YARD,<br>(USED) 1929           | USED<br>Photostat             | "                      | 183,467.08  | 1467.08 (532.92)  |                  | 447.2 (162.4)   |  |
| SUB. PT. CANAL<br>(USED) 1932           | USED<br>Photostat             | "                      | 2,018,989.50  | 989.50 (1010.50)  |                  | 301.6 (308.0)   |  |
|   |                               |                        | 187,282.08  | 1282.08 (717.92)  |                  | 390.8 (218.8)   |  |
|   |                               |                        | 2,012,963.71  | 963.71 (1036.29)  |                  | 293.7 (315.9)   |  |
|   |                               |                        | 186,671.34  | 671.34 (1328.66)  |                  | 204.6 (405.0)   |  |
|   |                               |                        | 2,014,642.90  | 642.90 (1357.10)  |                  | 196.0 (413.6)   |  |
|   |                               |                        | 185,810.81  | 1810.81 (189.19)  |                  | 551.9 (57.7)  |  |
|   |                               |                        | 2,010,376.43  | 376.43 (1623.57)  |                  | 114.7 (494.9)   |  |
|   |                               |                        | PLOTTED GRAPHICALLY   |   |                  |   |  |
|   |                               |                        | PLOTTED GRAPHICALLY   |   |                  |   |  |
|   |                               |                        | PLOTTED GRAPHICALLY   |   |                  |   |  |

1 FT. = 3048006 METER

COMPUTED BY: W.L. Lineweaver

DATE March 21, 1950

CHECKED BY: F.J. Tarcza

DATE March 1950

M-2388-12



COMPILATION REPORTT-844931. DELINEATION

This manuscript was delineated by graphic methods only.

As there was no interior field inspection other than of public buildings, almost the entire manuscript was delineated by office interpretation.

32. CONTROL

The identification, the density, and the placement of horizontal control were adequate.

33. SUPPLEMENTAL DATA

The following are the supplemental data used in conjunction with the compilation of this manuscript.

1. Final Names Sheet, dated 7 February 1950, on a copy of Army Map Service, Brooklyn, New York, quadrangle.
2. Photostatic copy of a section of the Administrative Code of New York describing the boundary between Kings and Queens Counties.

*See sub-heading 68 and 14*

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The field inspection of the shoreline was very good. Some difficulty was encountered, however, in the delineation of the alongshore buildings because of the dark shadows.

The small piece of low-water line shown on the manuscript is based on office interpretation of the photographs.

*Deleted. EHK*

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

Forms 567 for the landmarks, nonfloating aids, and one aeronautical aid appearing on Survey No. T-8449 are submitted with this report.



### 38. CONTROL FOR FUTURE SURVEYS

Forms 524 are submitted with this report for the four recoverable topographic stations appearing on this manuscript. Of the three aids mentioned in paragraph 9 of the field report, no form 524 was submitted for BLACKWELLS ISLAND REEF BEACON, 1932, a triangulation station. Forms 524 were submitted for two radio towers which were not considered in paragraph 9.

*See sub-heading 49 for listing of topographic stations.*

### 39. JUNCTIONS

This manuscript is the only one of the sub-project and there are no contemporary surveys adjoining it on any side.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

### 41. through 45

Inapplicable.

### 46. COMPARISON WITH EXISTING MAPS

Survey No. T-8449 has been compared with the Army Map Service, Brooklyn, New York, quadrangle, scale 1:25,000, edition of 1947; Air Photo Compilation No. T-5458, scale 1:5000, dated 1935, and Air Photo Compilation No. T-5459, scale 1:5000, dated 1935.

*See sub-headings 62 and 63*

### 47. COMPARISON WITH NAUTICAL CHARTS

Survey No. T-9449 has been compared with USC&GS Chart No. 745, scale 1:10,000, published 25 July 1949.

*See sub-heading 65*

Items to be applied to nautical charts immediately:

None.

Items to be carried forward

None.

Respectfully submitted  
28 June 1950

*Clady T. Nathan*  
Cartographer (Photo.) *rap*

Approved and forwarded  
19 July 1950.

*Hubert A. Paton*  
Hubert A. Paton  
Comdr., C&GS  
Officer in Charge



#### 48. GEOGRAPHIC NAMES

- \* Borden Avenue ✓
- • Borough of Brooklyn ✓
- • Borough of Queens ✓
- • Bushwick Inlet ✓
- • Calvary Cemetery ✓
- • Calvary Cemetery ✓
- \* Cooper Park ✓
- \* Crosstown Connecting Highway ✓
- • Dutch Kills ✓
- • East Branch ✓
- • East River ✓
- • English Kills ✓
- • \* Grand Avenue ✓
- • \* Grand Street ✓
- • \* Grand Street Extension ✓
- • Greenpoint ✓
- • \* Greenpoint Avenue ✓
- • Hunters Point ✓
- • Hunters Point Avenue ✓
- • ~~Kings County~~ Not shown. ENR
- • Laurel Hill ✓
- • Linden Hill ✓
- • Linden Hill Cemetery ✓
- • Long Island Depot ✓
- • Long Island Railroad ✓
- • <sup>e</sup>Maspeth Creek ✓
- • McCarren Park ✓
- • \* Meeker Avenue ✓
- • \* Metropolitan Avenue ✓
- • \* Midtown Highway ✓
- • Montrose Avenue ✓
- • Newtown Creek ✓
- • New York County
- • \* Queens Boulevard ✓
- • ~~Queens County~~ Not shown ENR
- • Queens-Midtown Tunnel ✓
- • \* U.S. Navy Yard ✓
- • \* U.S. Navy Yard Annex ✓
- • Vernon Avenue ✓
- • Wallabout Channel ✓
- • Whale Creek ✓
- • \* Williamsburg Bridge ✓
- • \* Winthrop Park ✓
- • Woodside ✓

\* These names did not appear on the final names sheet. It is felt, however, that they are important enough to be shown on the manuscript. The names were obtained from the Air Photo Compilation Surveys and from oil company road maps of the area.

Names preceded by • are approved. 8-1-50.  
L. Heck



49. NOTES FOR the HYDROGRAPHER

The following is the list of recoverable topographic stations appearing on Survey No. T-8449:

POOR HOUSE FLATS RANGE FRONT, 1949

POOR HOUSE FLATS RANGE REAR, 1949

~~RADIO TOWER~~  
~~TOWER, Radio (westerly of 2),~~ <sup>ENR</sup> 1949

~~RADIO TOWER~~  
~~TOWER, Radio (easterly of 2),~~ <sup>ENR</sup> 1949

~~GAS TANK~~ 1949

~~GAS TANK~~ 1949

~~RADIO TOWER WEVD~~ 1949

~~RADIO TOWER WEVD~~ 1949

~~OUTER MARKER AND COMPASS LOCATER OF  
LAGAURDIA INSTRUMENT LANDING SYSTEM~~ 1949

*Stations in red are listed on Forms 567. ENR*

50.

## PHOTOGRAMMETRIC OFFICE REVIEW

T- 8449

1. Projection and grids gall 2. Title gall 3. Manuscript numbers gall 4. Manuscript size gall

## CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy gall 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) gall 7. Photo-hydro stations gall 8. Bench marks gall 9. Plotting of sextant fixes None 10. Photogrammetric plot report gall 11. Detail points gall

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline gall 13. Low-water line gall 14. Rocks, shoals, etc. gall 15. Bridges gall 16. Aids to navigation gall 17. Landmarks gall 18. Other alongshore physical features gall 19. Other along-shore cultural features gall

## PHYSICAL FEATURES

20. Water features gall 21. Natural ground cover gall 22. Planetable contours gall 23. Stereoscopic instrument contours gall 24. Contours in general gall 25. Spot elevations gall 26. Other physical features gall

## CULTURAL FEATURES

27. Roads gall 28. Buildings gall 29. Railroads gall 30. Other cultural features None

## BOUNDARIES

31. Boundary lines gall 32. Public land lines gall

## MISCELLANEOUS

33. Geographic names gall 34. Junctions None 35. Legibility of the manuscript gall 36. Discrepancy overlay gall 37. Descriptive Report gall 38. Field inspection photographs gall 39. Forms gall40. Joseph W. Womack Joseph Steinberg  
Reviewer Supervisor, Review Section of Unit

41. Remarks (see attached sheet)

## FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

\_\_\_\_\_  
Compiler\_\_\_\_\_  
Supervisor

43. Remarks:

M-2623-12



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED  
TO BE DELETED

**STRIKE OUT ONE**

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Brooklyn, N. Y. December 1949

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by William H. Shearouse

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.







DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED  
TO BE DELETED

STRIKE OUT ONE

Brooklyn, New York December 1949, 19

I recommend that the following objects which have ~~(been not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(detached from)~~ the charts indicated.

The positions given have been checked after listing by

Joseph W. Vonasek

E. R. McCarthy

Chief of Party.

| STATE | CHARTING NAME | DESCRIPTION                                | SIGNAL NAME                        | POSITION |              |       |              | METHOD OF LOCATION AND SURVEY NO. | DATE OF LOCATION | HARBOR CHART | INSHORE CHART | OFFSHORE CHART | CHARTS AFFECTED |
|-------|---------------|--|------------------------------------|----------|--------------|-------|--------------|-----------------------------------|------------------|--------------|---------------|----------------|-----------------|
|       |               |  |                                    | LATITUDE | LONGITUDE    |       | DATUM        |                                   |                  |              |               |                |                 |
|       |               |  |                                    | ° ' "    | D. M. METERS | ° ' " | D. P. METERS |                                   |                  |              |               |                |                 |
| X     | TALL SPIRE    | Church (150 ft. high)                      | St. Anthony's Cath. Ch. Sp.        | 40 43    | 1414.0       | 73 57 | 351.5        | N.A. 1927                         | Triang. T-8449   | ✓            | ✓             |                | 369<br>745      |
| X     | CHIM-NEY      | north of three (Jack Frost Sugar Co.)      | Jack Frost Sug. Co. Chim.          | 40 44    | 634.4        | 73 57 | 922.3        | N.A. 1927                         | Triang. T-8449   | ✓            | ✓             |                | Same            |
| X     | CHIM-NEY      | middle of three (Jack Frost Sugar Co.)     | Jack Frost Sug. Co. Middle Chimney | 40 44    | 613.7        | 73 57 | 927.6        | N.A. 1927                         | Triang. T-8449   | ✓            | ✓             |                | Same            |
| X     | CHIM-NEY      | south of three (Jack Frost Sugar Co.)      | Jack Frost Sug. Co. South Chimney  | 40 44    | 593.0        | 73 57 | 932.7        | N.A. 1927                         | Triang. T-8449   | ✓            | ✓             |                | Same            |
| X     | RADIO TOWER   | East of 2, skeleton, steel (312 ft. high)  | Chimney Tower                      | 40 43    | 1442         | 73 57 | 930          | N.A. 1927                         | Air photo.       | ✓            | ✓             |                | Same            |
| X     | RADIO TOWER   | West of 2, steel, skeleton, (312 ft. high) | Chimney Tower                      | 40 43    | 1457         | 75 57 | 973          | N.A. 1927                         | Air photo.       | ✓            | ✓             |                | Same            |
| X     | GAS TANK      | cylindrical (401 ft. high)                 | Union Gas Holder                   | 40 43    | 168.5        | 73 55 | 1397.9       | N.A. 1927                         | Triang. T-8449   | ✓            | ✓             |                | 369<br>745      |
|       | GAS TANK      | East of 2, 220 ft high (235 ft above MHW)  |                                    | 40 43    | 569          | 73 57 | 550          | "                                 | photo            |              |               |                | 369             |
|       | GAS TANK      | West of 2, 220 ft. high (235 ft above MHW) |                                    | 40 43    | 609          | 73 57 | 598          | "                                 | "                | xx           |               |                | 745             |

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.



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

## AERONAUTICAL

## LET YOUR LOCATION NON-FLUATING AIDS OPPORTUNITIES FOR CHARTS

**STRIKE OUT ONE**

**TO BE CHARTED**  
**~~TO BE CHARTED~~**

Baltimore, Maryland

July 6 1950

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(deleted from)* the charts indicated.

**The positions given have been checked after listing by**

**Joseph W. Vonasak**

**Hubert A. Patton**

**Chief of Party**

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.



## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

## TO BE CHARTED

## STRIKE OUT ONE

**Washington, D. C.**

27 Aug. 1951

I recommend that the following objects which ~~have~~ *have not* been inspected from seaward to determine their value as landmarks, be charted on ~~the chart~~ the charts indicated.

The positions given have been checked after listing by

**Washington Office**

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

REVIEW REPORT  
Shoreline Survey T-8449  
16 July 1952

62. Comparison with Prior Topographic Surveys:

|              |          |         |
|--------------|----------|---------|
| T-13         | 1:10,000 | 1837    |
| T-483        | "        | 1855    |
| T-608        | "        | 1855-57 |
| T-789        | "        | 1860    |
| T-917        | "        | 1856    |
| T-1414       | "        | 1875    |
| T-1586       | "        | 1885    |
| T-3226       | "        | 1911    |
| T-5459 Supp. | 1:5,000  | 1935    |

Survey T-8449 is to supersede these prior surveys for nautical charting purposes for common area.

63. Comparison with Maps of Other Agencies:

Brooklyn quadrangle (C.ofE.) 1:25,000 1947

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

|     |          |            |         |
|-----|----------|------------|---------|
| 745 | 1:10,000 | 1944 corr. | 50-8/21 |
| 369 | 1:40,000 | 1947 corr. | 52-5/19 |
| 275 | 1:5,000  | 1952 corr. | 52-4/14 |

A discrepancy of 5 ft. in the distance between piers along the East River at Lat. 40° 44.6' was noted. The discrepancy could not be reconciled.

Chart 745 still retains a spire and gilt dome as land-marks which were recommended for deletion by this survey.

Additions made to the manuscript during this review are shown in red.

Also see sub-heading 69.

66. Adequacy of Results and Future Surveys:

Since the project instructions were issued, the decision was made for T-8449 to be a shoreline survey instead of a planimetric survey. Consequently more than the required detail appears on the manuscript. Except for possible errors noted in sub-heading 69, this survey complies with Bureau requirements for a shoreline survey and meets the National Standard of Map Accuracy.

67. Woodland Cover:

A portion of Winthrop Park has been compiled as "trees".



68. Boundaries:

Boundaries were incomplete on the manuscript and were thus deleted during this review.

69. Bridges:

The field inspection party gave the horizontal clearance of Hunters Avenue Bridge as 59.4 feet. The opening obtained from the aerial photographs scales 55 feet.

Field inspection notes show that measurements were taken for the NE or right span of the Grand Avenue Bridge over East Branch. The Bridge Book and Nautical Chart 275 shows clearance for the ~~left~~ span.

west

59.4 is ok - confirmed by C/E - see #48203 JFE 1/11/54  
OK as charted LAM

70. Aids to Navigation:

The aeronautical chart for New York, revised to Dec. 1951 shows an aero beacon at Lat 40° 43.1' and Long 73° 56.0' apparently the same position as a large gas tank. This was not covered by field inspection.

Reviewed by:

Everett H. Ramey  
Everett H. Ramey

Approved:

S. V. Griffith  
Chief, Review Section  
Division of Photogrammetry

McKinnon  
Chief, Nautical Chart Branch  
Division of Charts

P. S. Reading  
Chief, Div. of Photogrammetry

Carl O. Heston  
Chief, Div. of Coastal Surveys



## NAUTICAL CHARTS BRANCH

**SURVEY NO. T. 8449**

## Record of Application to Charts

[illegible]

**M-216A-1**

**A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.**