LIGHT 2

Lighted Buoy
1 DR

275+057.48
275+500
275+682.72
276+000
276+500
277+000
277+500
278+000
278+500
279+000
279+500
280+000
280+500
281+000
281+500
282+000



1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.

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Scale in Feet
200 0 200 400 600

- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- Quarter Line
- Station Lines
- 45 - 53.953
- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40

US Army Corps of Engineers
Philadelphia District

STA. 275+057 to STA. 280+000 -- 24 APR 25
STA. 280+000 to STA. 285+000 -- 29 APR 25
STA. 285+000 to STA. 295+000 -- 30 APR 25
STA. 295+000 to STA. 305+000 -- 01 MAY 25
STA. 305+000 to STA. 310+000 -- 05 MAY 25

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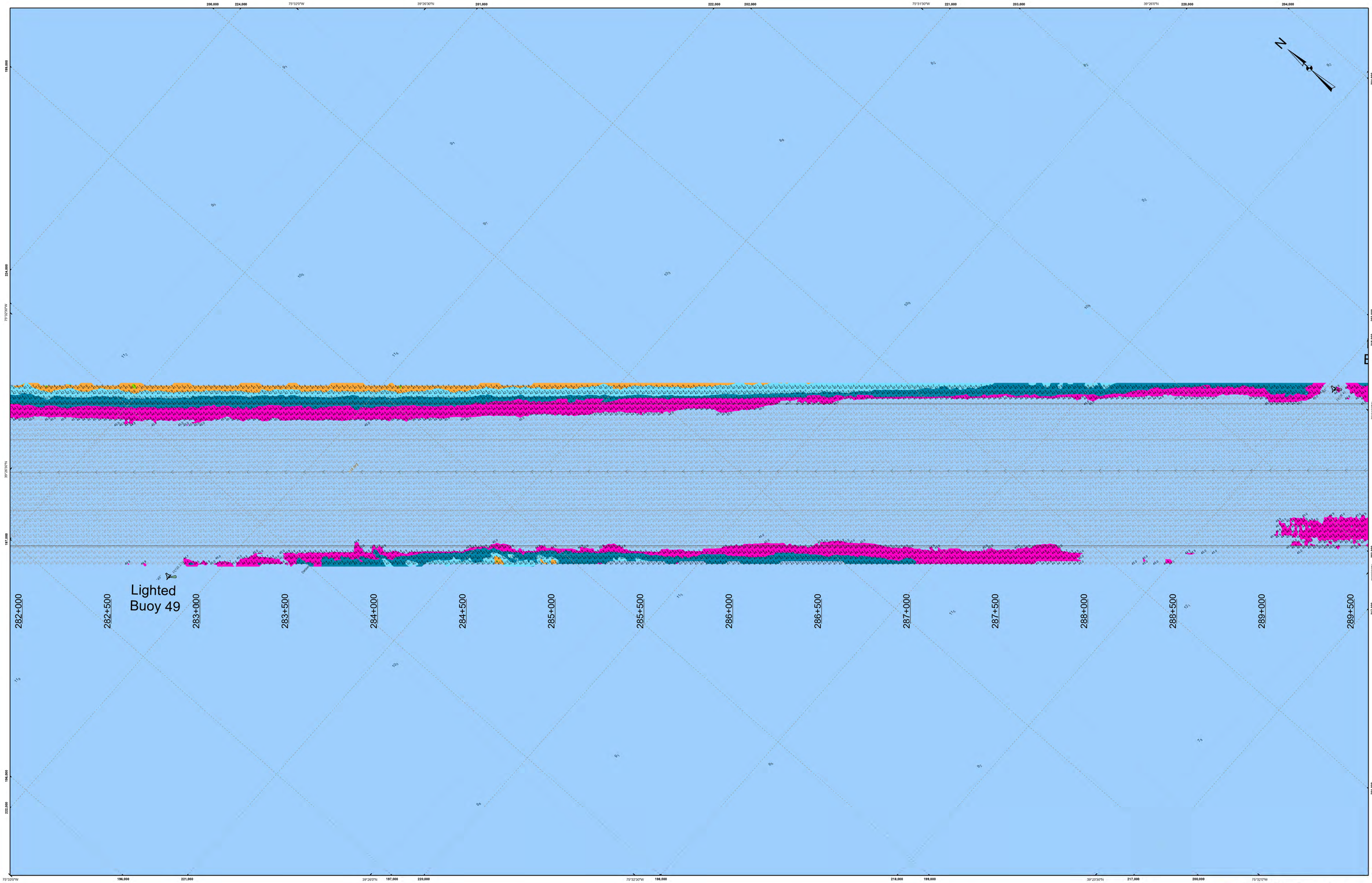
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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Plotted By: E. Anthony
Checked By:
Drawing No.
Plot Scale
Approved: Chief, Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-360





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US Army Corps of Engineers Philadelphia District

STA. 275+057 to STA. 280+000 -- 24 APR 25
STA. 280+000 to STA. 285+000 -- 29 APR 25
STA. 285+000 to STA. 295+000 -- 30 APR 25
STA. 295+000 to STA. 305+000 -- 01 MAY 25
STA. 305+000 to STA. 310+000 -- 05 MAY 25

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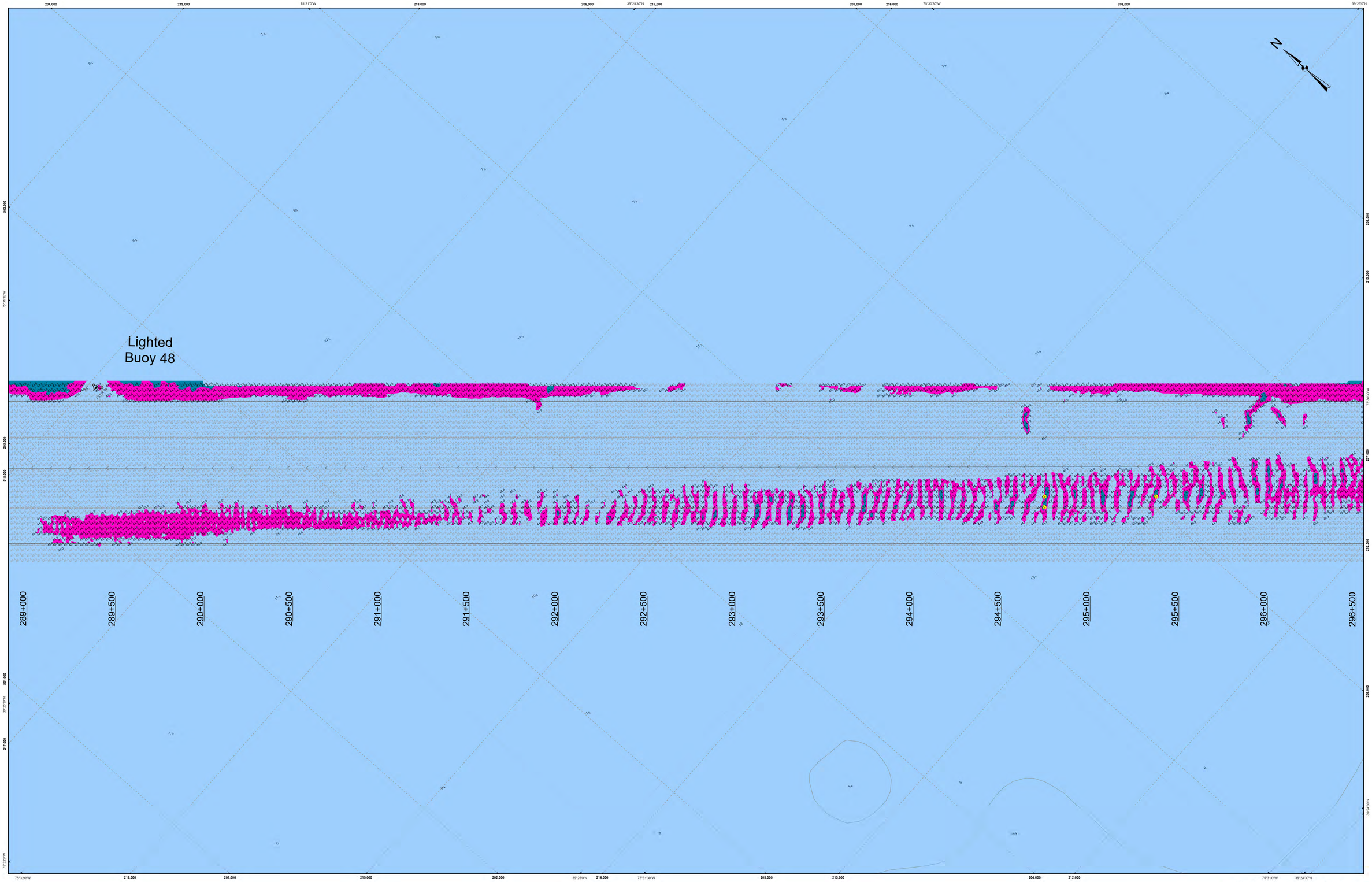
USCG LAKES
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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed by:
Plotted By: E. Anthony
Checked By:
Drawing No.
Plot Scale
Approved: Chief, Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-360



US Army Corps of Engineers Philadelphia District

STA. 275+057 to STA. 280+000 -- 24 APR 25
STA. 280+000 to STA. 285+000 -- 29 APR 25
STA. 285+000 to STA. 295+000 -- 30 APR 25
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U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT		Surveyed By:	
		Plotted By:	E. Anthony
Drawing No.			Checked By:
Plot Scale:		Approved:	Chief, Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-360

VICINITY MAP



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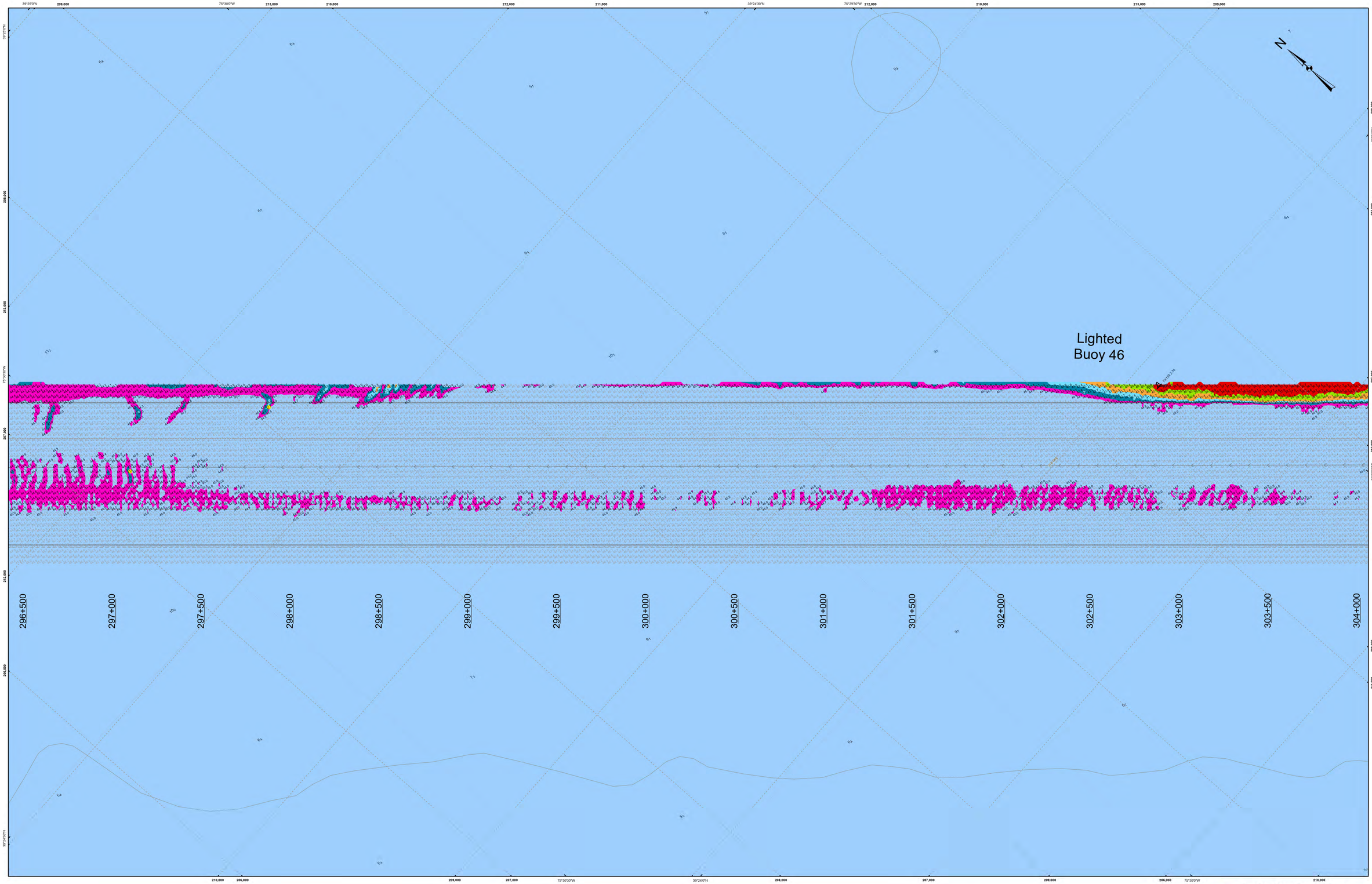
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US Army Corps of Engineers Philadelphia District

STA. 275+057 to STA. 280+000 – 24 APR 25
STA. 280+000 to STA. 285+000 – 29 APR 25
STA. 285+000 to STA. 295+000 – 30 APR 25
STA. 295+000 to STA. 305+000 – 01 MAY 25
STA. 305+000 to STA. 310+000 – 05 MAY 25

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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Plotted By: E. Anthony
Checked By:
Drawing No.
Plot Scale:
Approved: Chief, Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-360

VICINITY MAP



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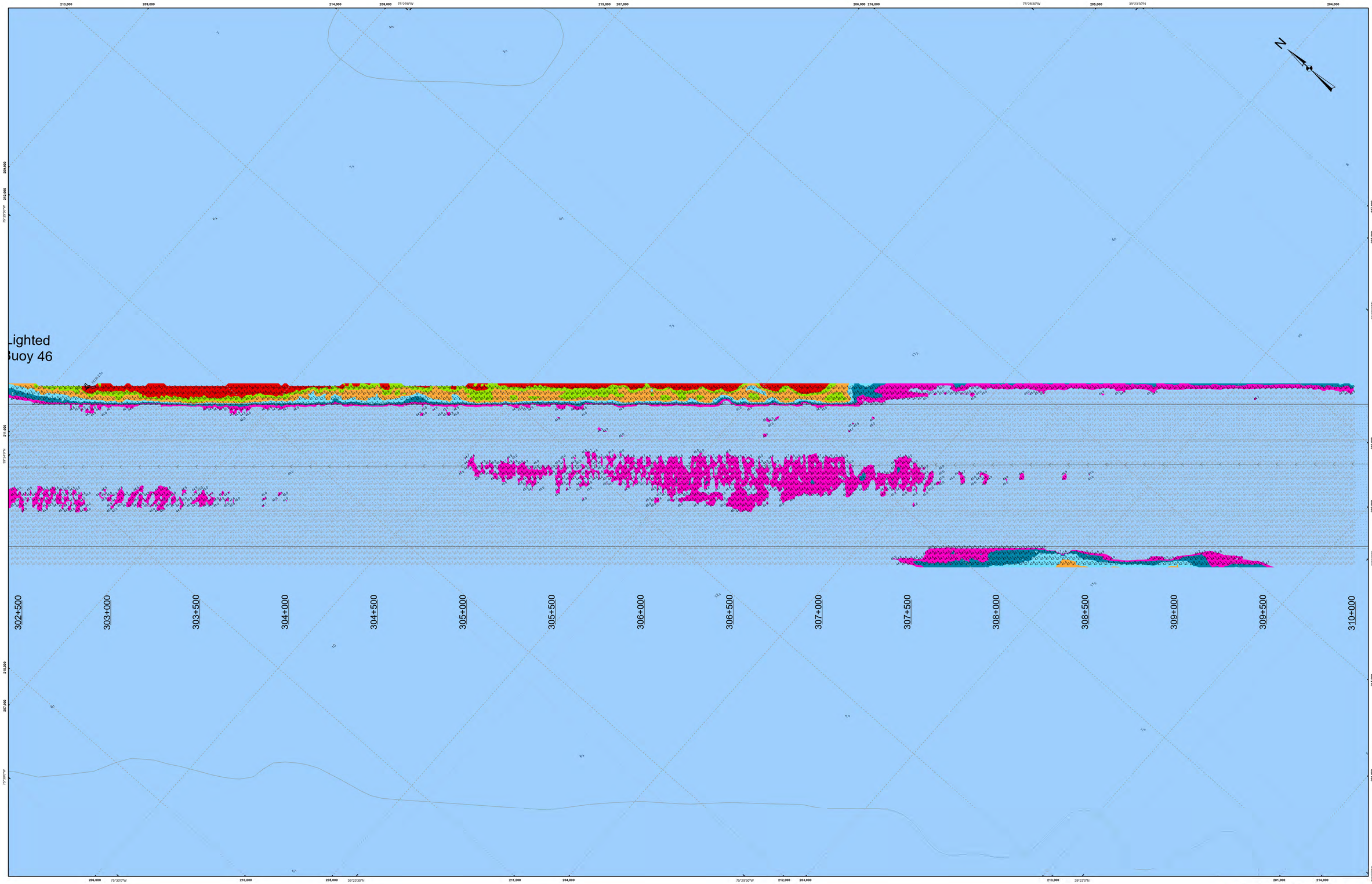
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US Army Corps of Engineers
Philadelphia District

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Surveyed By:
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
Plotted By: E. Anthony
Drawing No.
Plot Scale
Approved
Checked By
Chief, Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-360

VICINITY MAP



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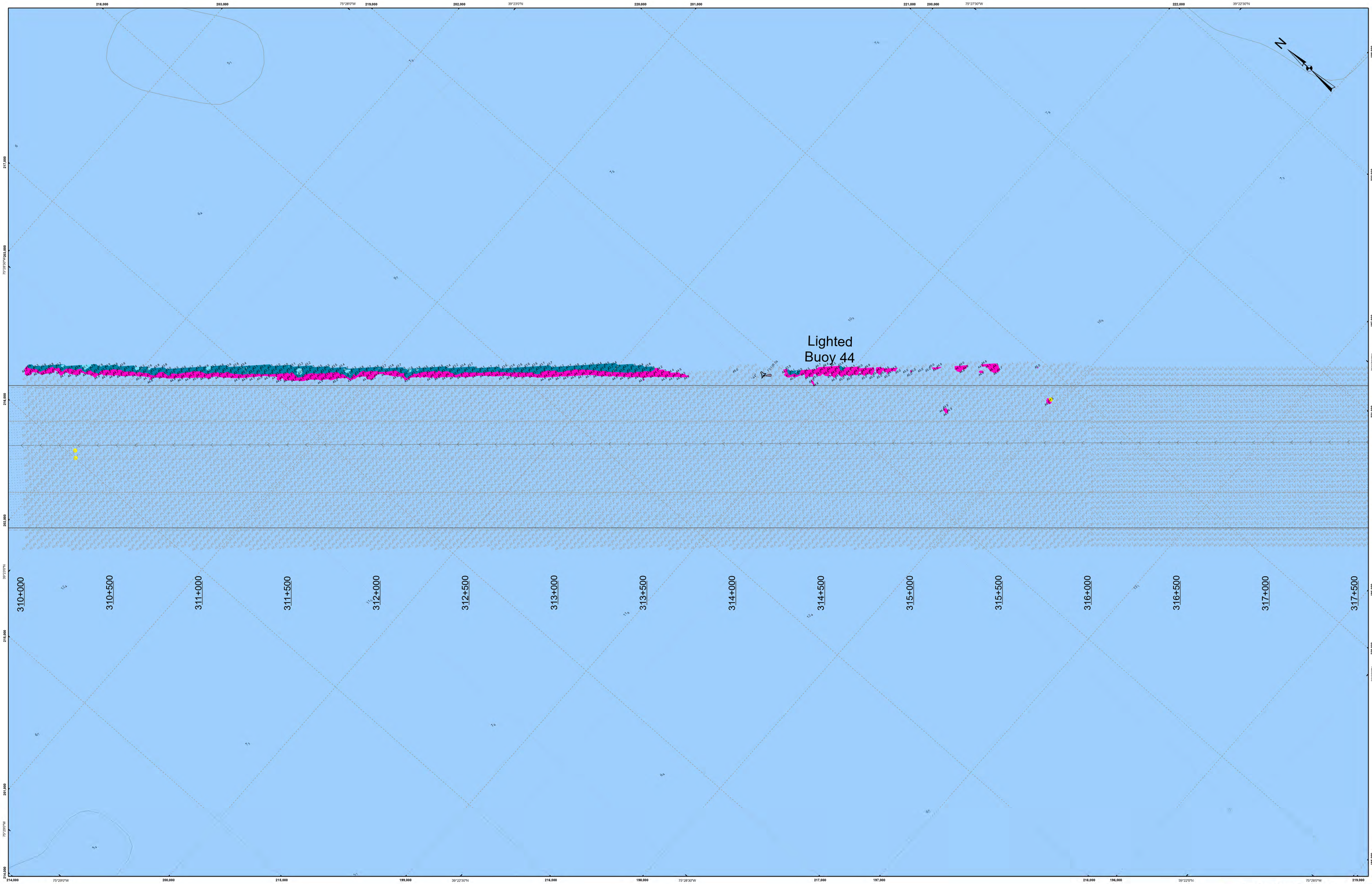
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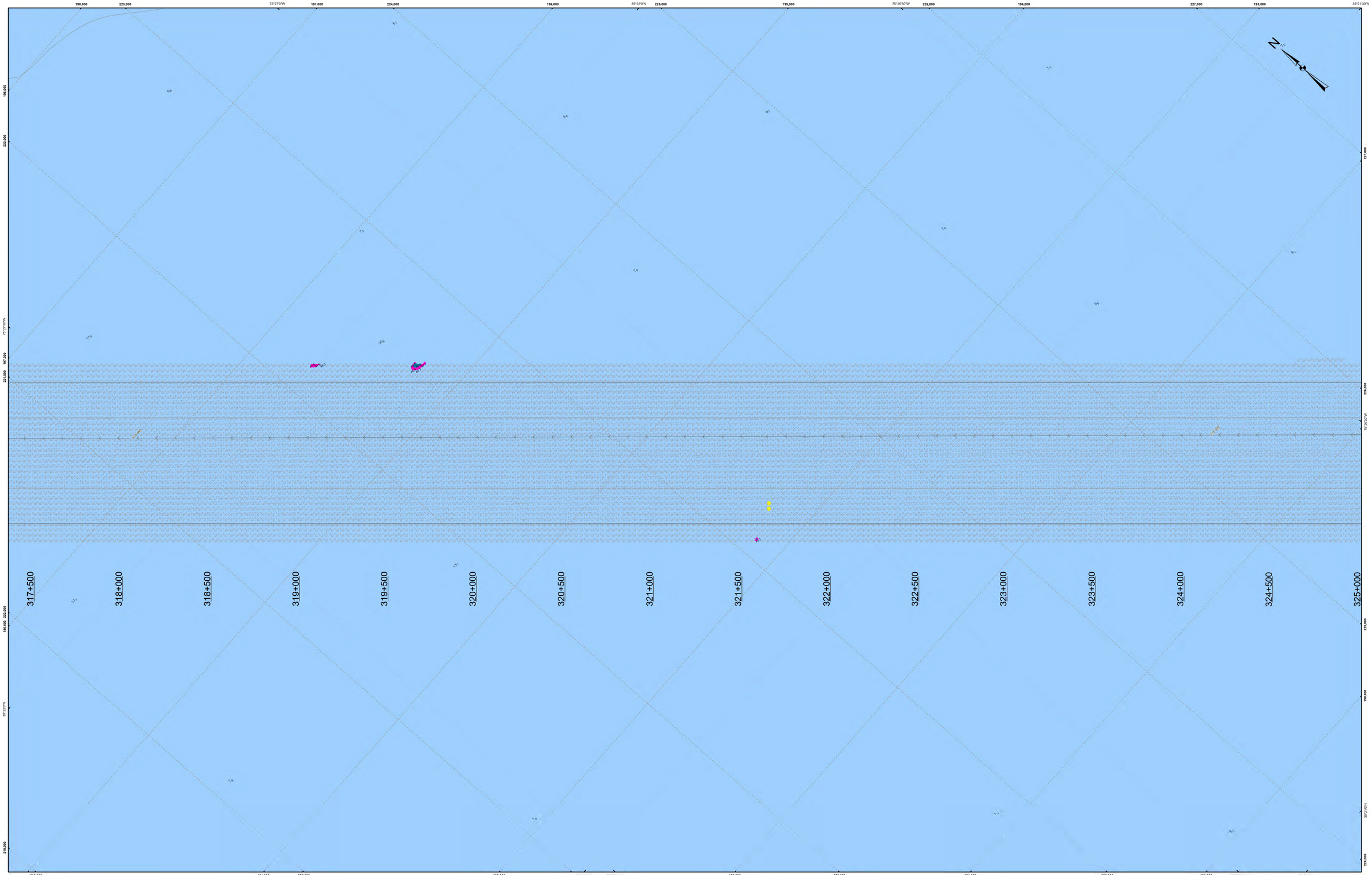
STA. 310+000 to STA. 316+000 -- 13 AUG 24
STA. 316+000 to STA. 324+000 -- 14 AUG 24
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US Army Corps of Engineers
Philadelphia District

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Scale in Feet

200 0 200 400 600

- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- Quarter Line
- Station Lines
- 45 - 53.953
- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40

US Army Corps of Engineers Philadelphia District

STA. 310+000 to STA. 316+000 -- 13 AUG 24
STA. 316+000 to STA. 324+000 -- 14 AUG 24
STA. 324+000 to STA. 332+000 -- 19 AUG 24
STA. 332+000 to STA. 340+000 -- 21 AUG 24
STA. 340+000 to STA. 344+000 -- 23 AUG 24
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STA. 348+000 to STA. 350+000 -- 21 AUG 24

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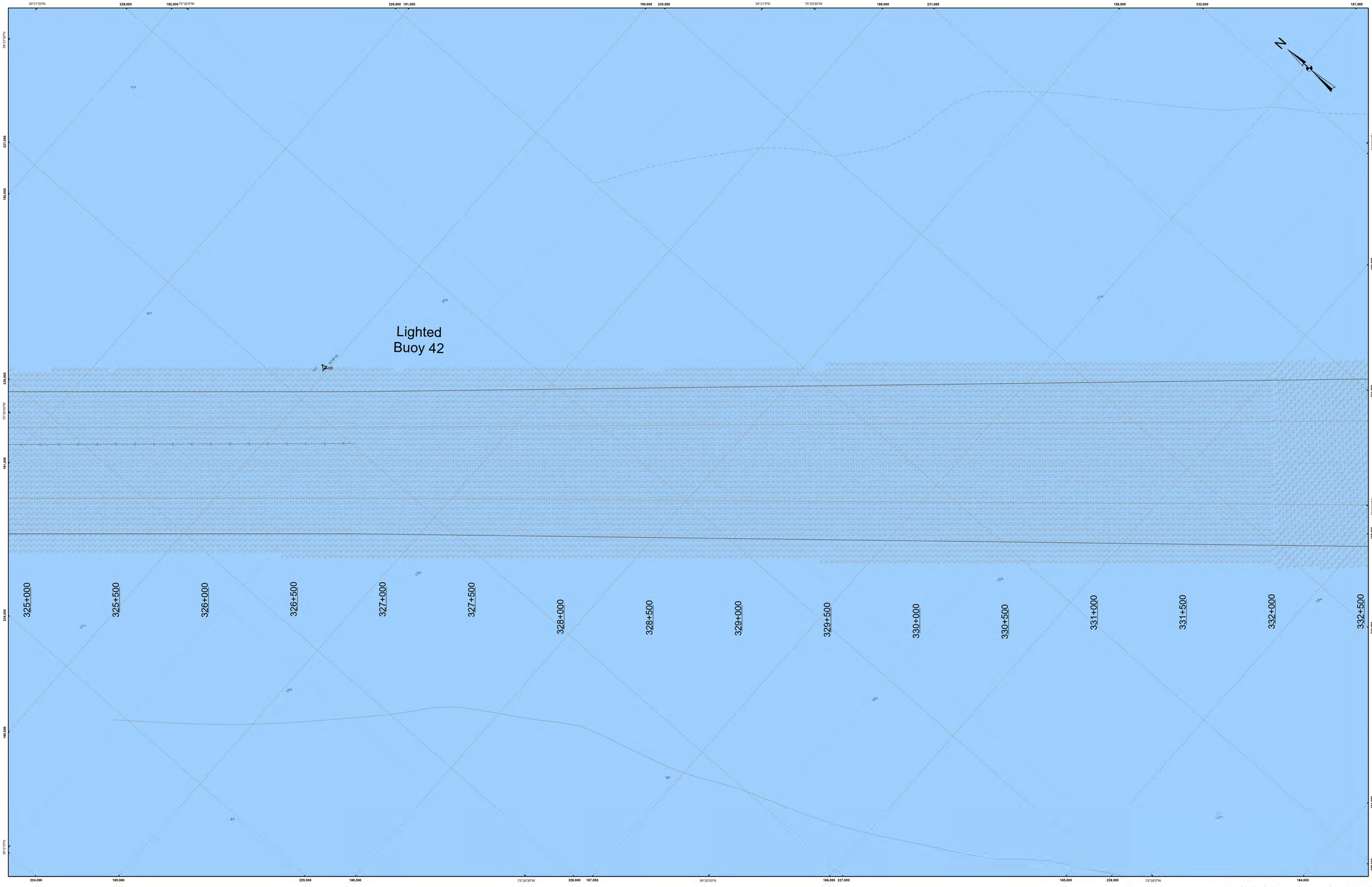
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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Drawing No.
Plotted By: E. Anthony
Plot Scale
Checked By:
Approved: Chief, Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-321





1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.

2. HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

3. VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 3.24' BELOW N.A.V.D. 88 BY THE FOLLOWING:

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5. SOUNDINGS WERE SELECTED FOR PLOTTING PURPOSES ONLY, USING THE MINIMUM DEPTH WITHIN A 30'X30' CELL SHIFTED TO THE CELL CENTER.

6. CONTOURS DEPICT ACTUAL LOCATION OF BATHYMETRY AND DO NOT NECESSARILY REFLECT PLOTTED SOUNDING LOCATIONS.

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US Army Corps of Engineers
Philadelphia District

STA. 310+000 to STA. 316+000 -- 13 AUG 24
STA. 316+000 to STA. 324+000 -- 14 AUG 24
STA. 324+000 to STA. 332+000 -- 19 AUG 24
STA. 332+000 to STA. 340+000 -- 21 AUG 24
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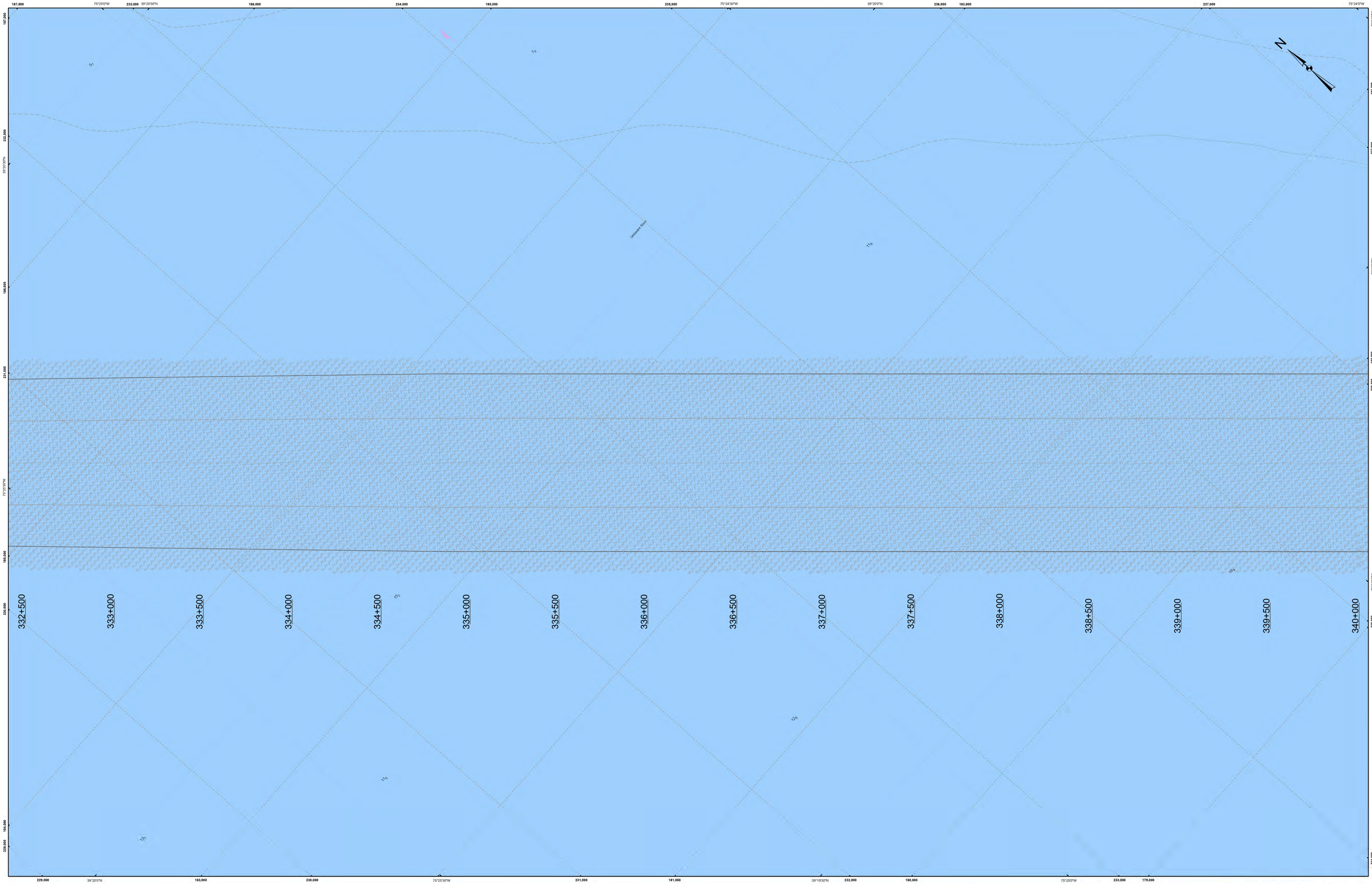
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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Plotted By: E. Anthony
Checked By:
Drawing No.
Plot Scale
Approved: Chief, Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-321



STA. 310+000 to STA. 316+000 -- 13 AUG 24
STA. 316+000 to STA. 324+000 -- 14 AUG 24
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US Army Corps of Engineers Philadelphia District

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Surveyed By:
Plotted By: E. Anthony
Checked By:
Approved: Chief, Survey Section

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Drawing No.
Plot Scale

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-321

VICINITY MAP



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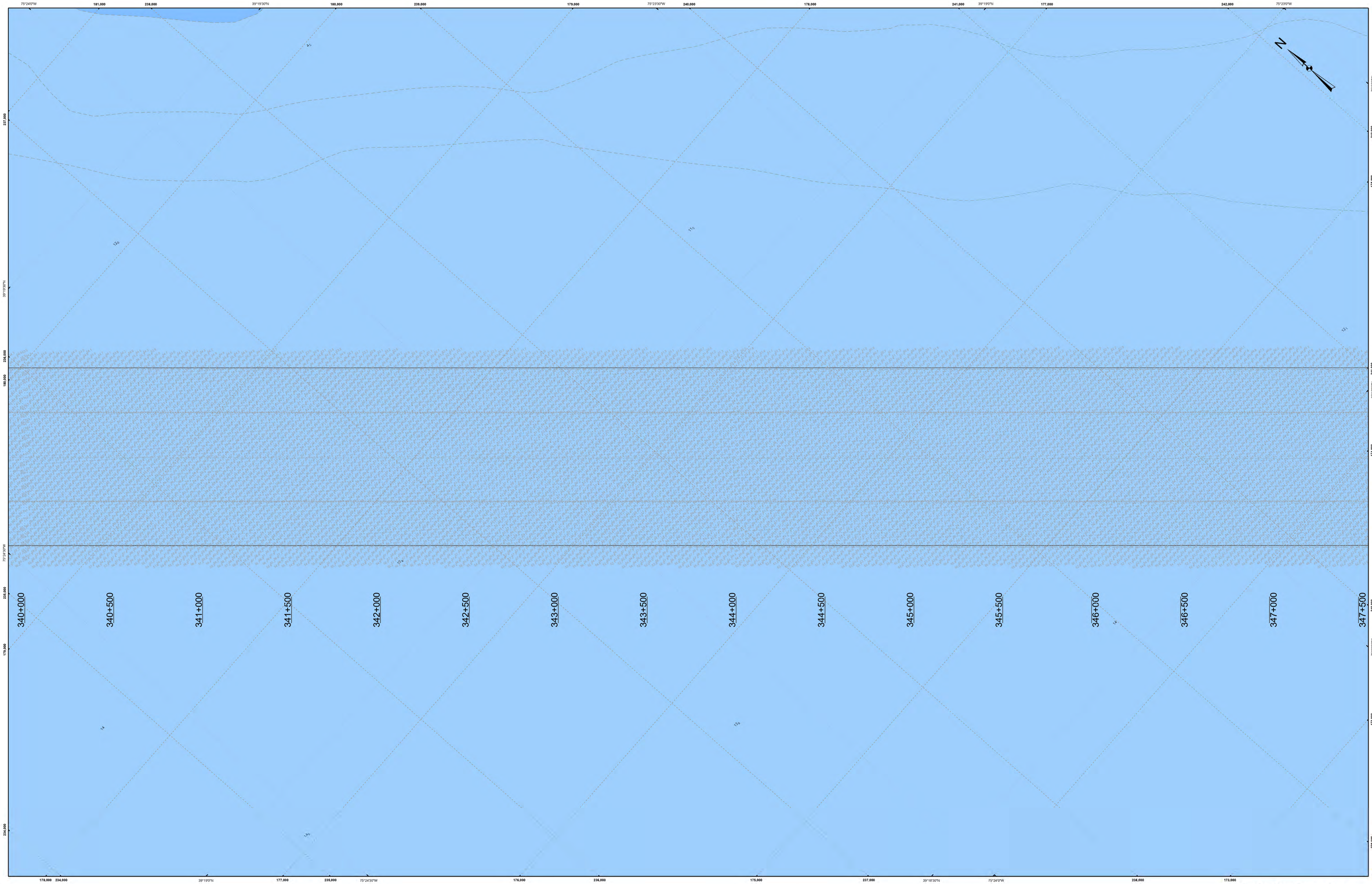
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VICINITY MAP



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US Army Corps of Engineers Philadelphia District

STA. 310+000 to STA. 316+000 -- 13 AUG 24
STA. 316+000 to STA. 324+000 -- 14 AUG 24
STA. 324+000 to STA. 332+000 -- 19 AUG 24
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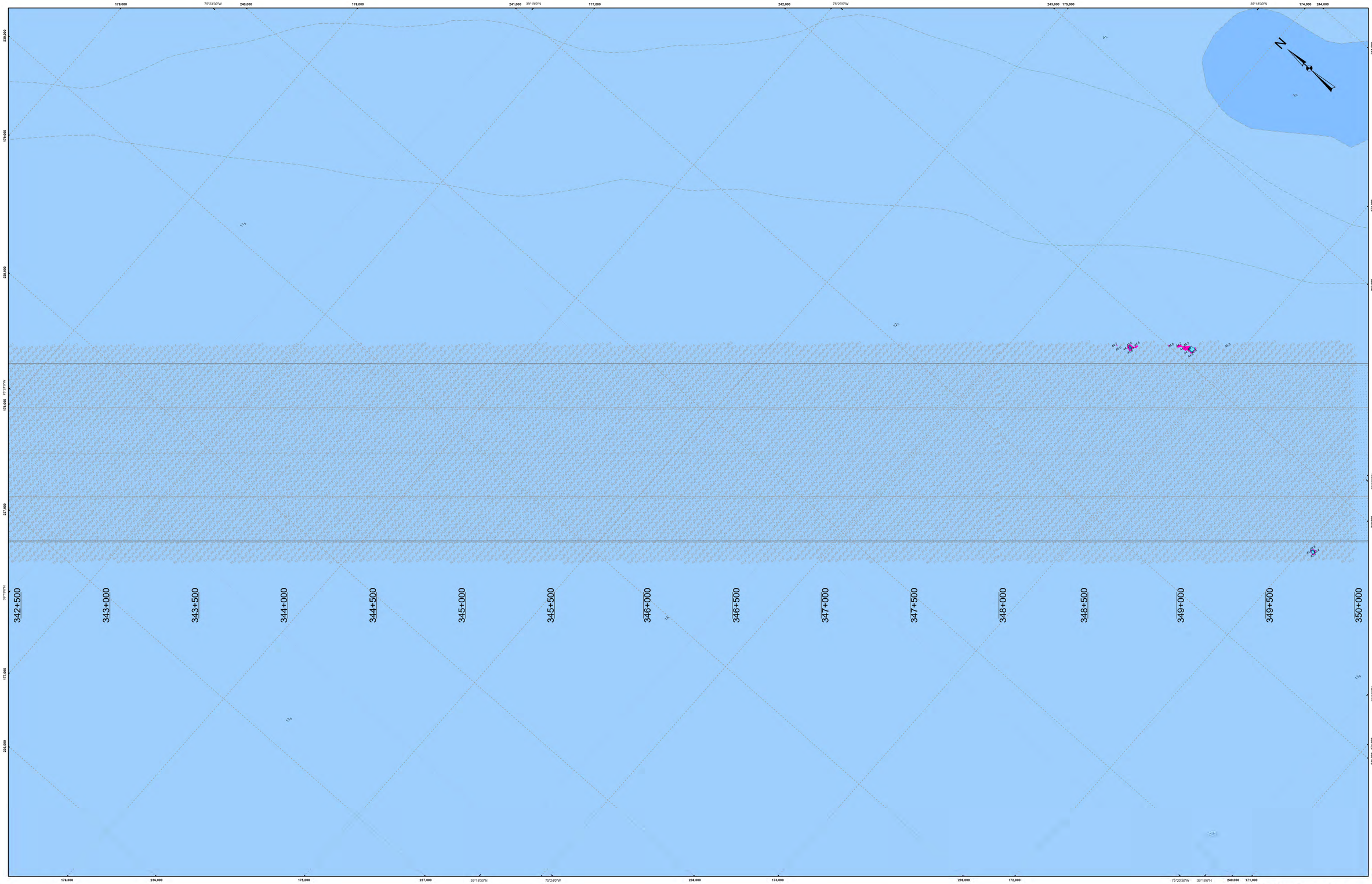
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U.S. ARMY CORPS OF ENGINEERS		Surveyed By:	
PHILADELPHIA DISTRICT		Plotted By:	E. Anthony
Drawing No.		Checked By:	
Plot Scale:		Approved:	Chief, Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-321





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US Army Corps of Engineers Philadelphia District

STA. 310+000 to STA. 316+000 -- 13 AUG 24
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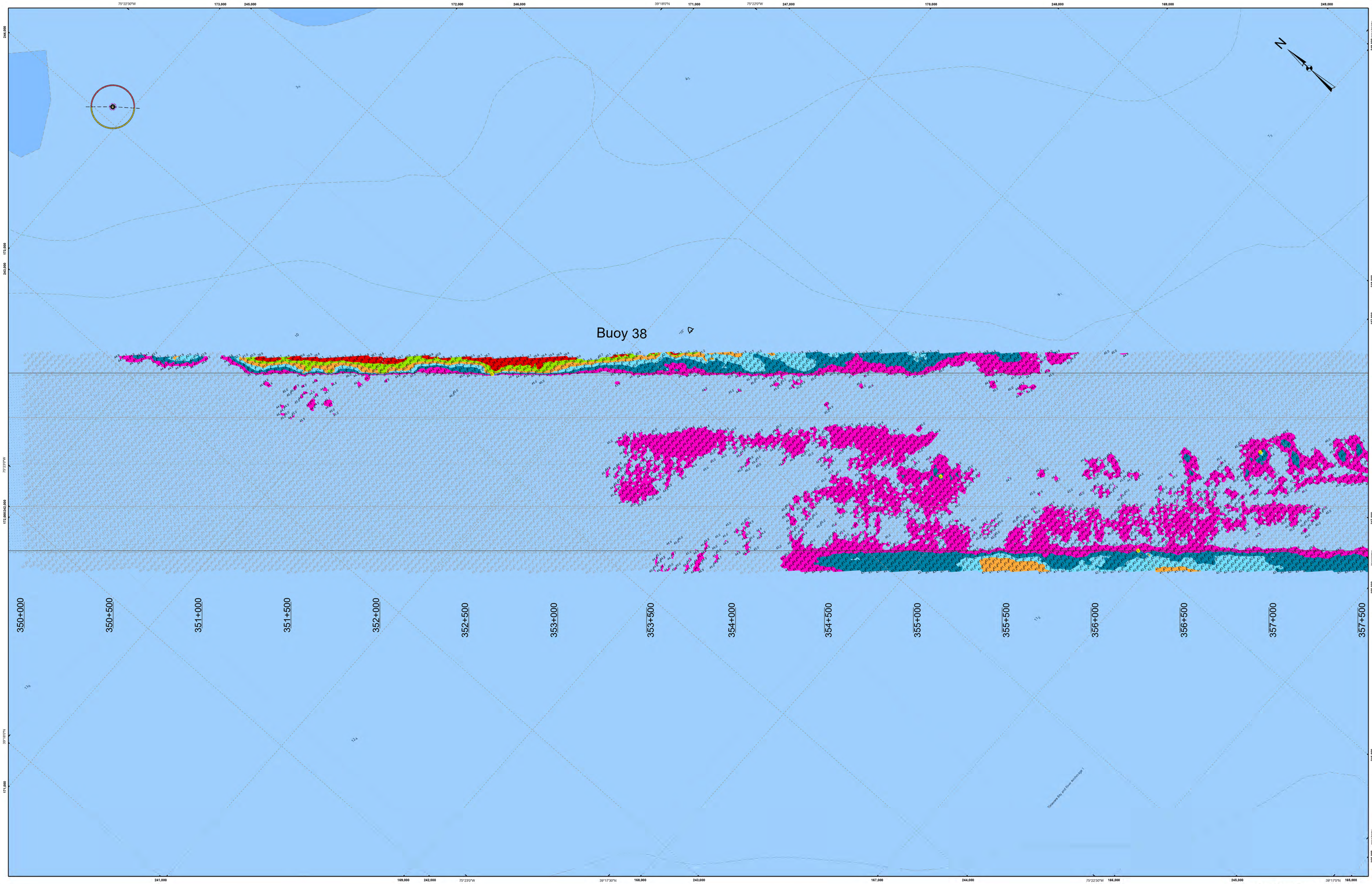
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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Plotted By: E. Anthony
Checked By:
Drawing No.
Plot Scale:
Approved: Chief, Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-321





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US Army Corps of Engineers Philadelphia District

STA. 350+000 to STA. 353+500 – 21 AUG 24
STA. 353+500 to STA. 360+000 – 11 JUN 24
STA. 360+000 to STA. 367+000 – 12 JUN 24

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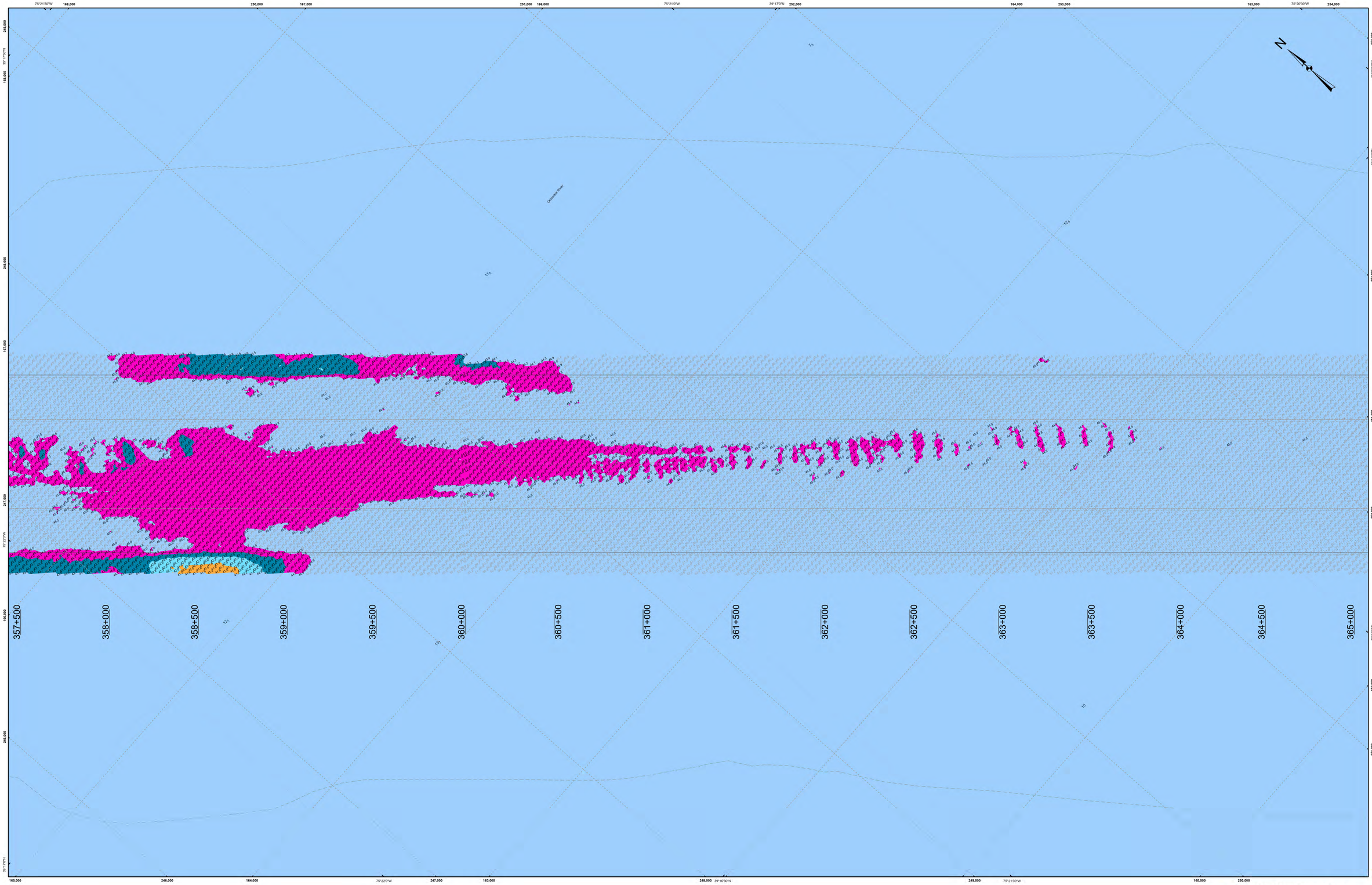
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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Plotted By: E. Anthony
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Drawing No.
Plot Scale:
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DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

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VICINITY MAP



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6. CONTOURS DEPICT ACTUAL LOCATION OF BATHYMETRY AND DO NOT NECESSARILY REFLECT PLOTTED SOUNDING LOCATIONS.

7. CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 15'X15' CELL.

8. HYPACK, INC. SOFTWARE WAS USED TO PERFORM THE SOUNDING SELECTION AND CONTOUR GENERATION.

9. THE INFORMATION DEPICTED ON THIS MAP REPRESENT THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

10. THE POSITIONS OF THE AIDS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY, AND SHOULD NOT BE USED FOR NAVIGATION.

11. THE LIMITS OF THE FEDERAL CHANNEL DEPICT THE MOST CURRENT CHANNEL FRAMEWORK AVAILABLE WHICH CAN ALSO BE DOWNLOADED HERE:

http://navigation.usace.army.mil/Survey/Framework

12. BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Scale in Feet

200 0 200 400 600

- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- Quarter Line
- Station Lines
- 45 - 53.953
- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40

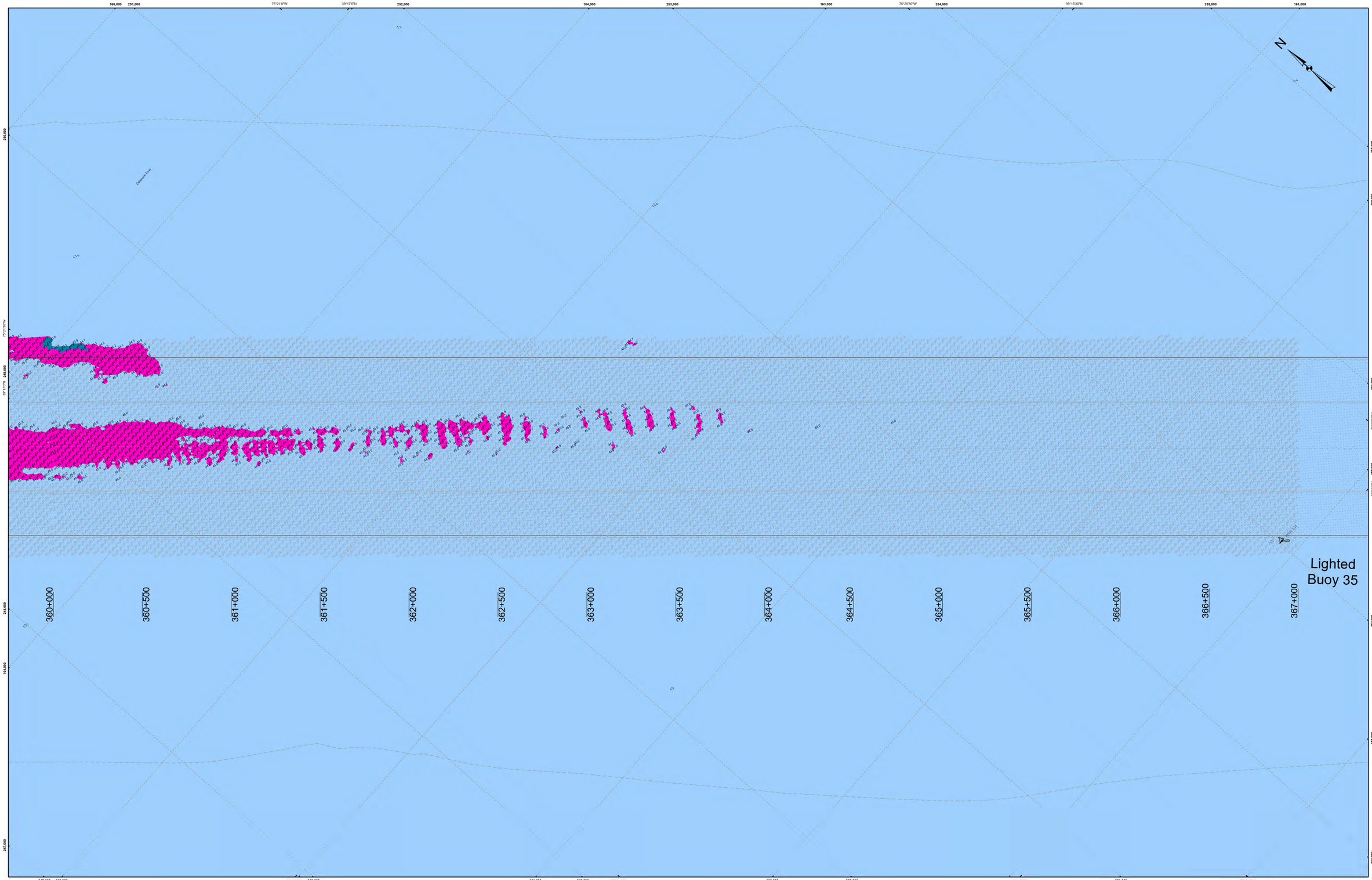
US Army Corps of Engineers
Philadelphia District

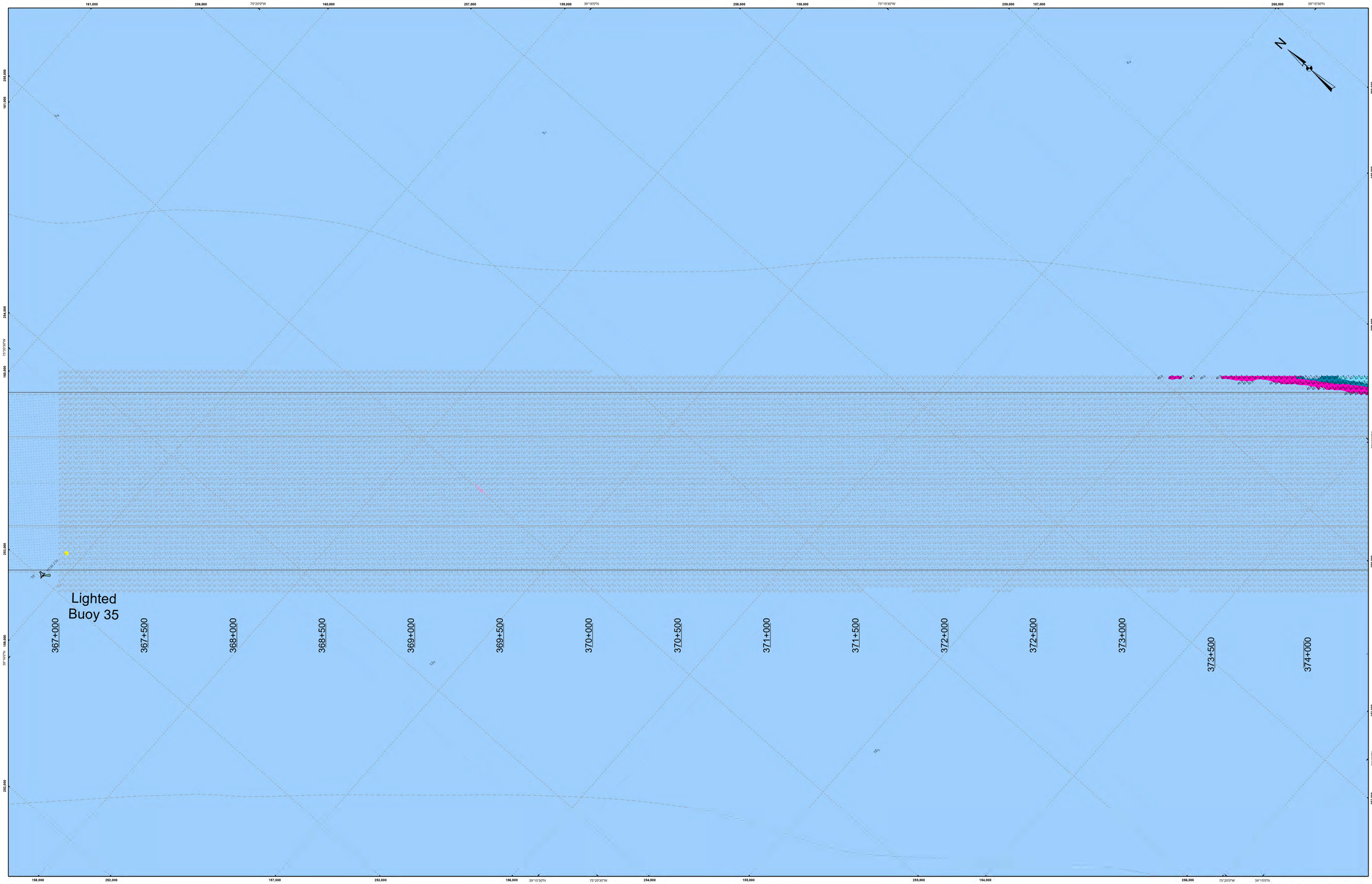
STA. 350+000 to STA. 353+500 – 21 AUG 24
STA. 353+500 to STA. 360+000 – 11 JUN 24
STA. 360+000 to STA. 367+000 – 12 JUN 24

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DISCLAIMER
This data is provided for general information only. It is not to be used for navigation or for publishing for official navigation charts to be used in place of official charts. Although we have attempted to make this data as accurate as the time they are released and only accurate only at the time they are released and only accurate only at the time they are released and only accurate only at


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75°21'0"W
39°17'0"N
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164,000
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163,000
75°20'30"W
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39°16'30"N
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Delaware River
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1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.

2. HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

3. VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 3.24' BELOW N.A.V.D. 88 BY THE FOLLOWING:

4. GEOID 09 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

5. SOUNDINGS WERE SELECTED FOR PLOTTING PURPOSES ONLY, USING THE MINIMUM DEPTH WITHIN A 30'X30' CELL SHIFTED TO THE CELL CENTER.

6. CONTOURS DEPICT ACTUAL LOCATION OF BATHYMETRY AND DO NOT NECESSARILY REFLECT PLOTTED SOUNDING LOCATIONS.

7. CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 15'X15' CELL.

8. HYPACK, INC. SOFTWARE WAS USED TO PERFORM THE SOUNDING SELECTION AND CONTOUR GENERATION.

9. THE INFORMATION DEPICTED ON THIS MAP REPRESENT THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

10. THE POSITIONS OF THE AIDS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY, AND SHOULD NOT BE USED FOR NAVIGATION.

11. THE LIMITS OF THE FEDERAL CHANNEL DEPICT THE MOST CURRENT CHANNEL FRAMEWORK AVAILABLE WHICH CAN ALSO BE DOWNLOADED HERE:

http://navigation.usace.army.mil/Survey/Framework

12. BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Scale in Feet
200 0 200 400 600

- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- Quarter Line
- Station Lines
- 45 - 53.953
- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40

US Army Corps of Engineers
Philadelphia District

STA. 367+000 to STA. 370+000 -- 19 AUG 24
STA. 370+000 to STA. 375+000 -- 16 AUG 24
STA. 375+000 to STA. 380+000 -- 15 AUG 24
STA. 380+000 to STA. 384+451 -- 14 AUG 24

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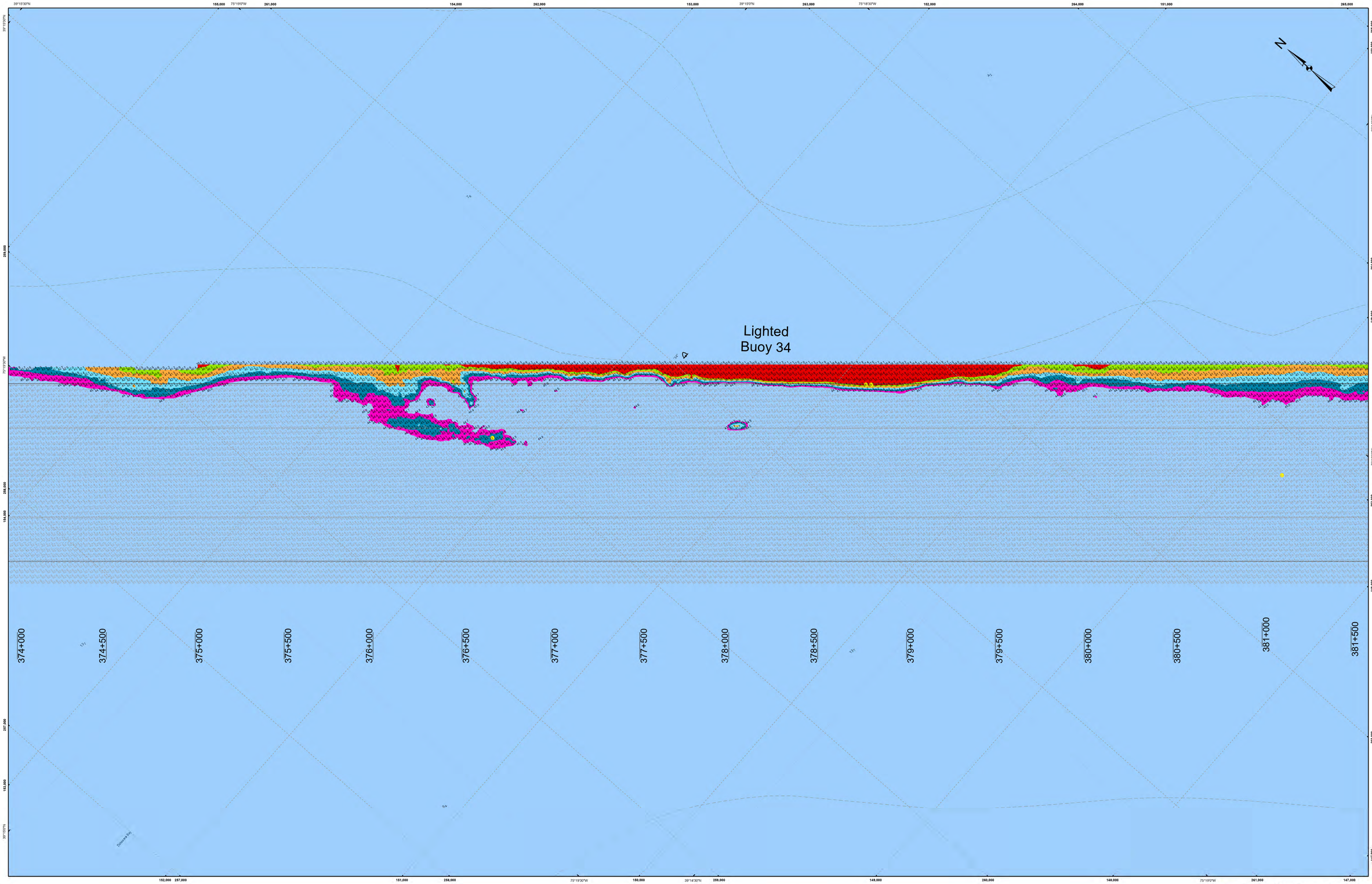
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U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT		Surveyed By:	
		Plotted By:	E. Anthony
Drawing No.			Checked By:
Plot Scale		Approved:	Chief, Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-321



VICINITY MAP



1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.

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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Plotted By: E. Anthony
Checked By:
Drawing No.:
Plot Scale:
Approved: Chief, Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-321

153,000 39°15'0"N 263,000 75°18'30"W 152,000 264,000 151,000 265,000 150,000 39°14'30"N 75°18'0"W 266,000 149,000 267,000

282,000 283,000 281,000 280,000 147,000 146,000 145,000

75°19'0"W 39°15'0"N 75°18'0"W 39°14'30"N

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LIGHT 32

377+500 378+000 378+500 379+000 379+500 380+000 380+500 381+000 381+500 382+000 382+500 383+000 383+500 384+000 384+451.39 385+000

150,000 39°14'30"N 259,000 149,000 260,000 148,000 75°19'0"W 261,000 147,000 39°14'0"N 262,000 146,000 263,000 75°18'30"W

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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
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Approved: Chief, Survey Section
Plot Scale
Drawing No.

DELAWARE RIVER, PHILADELPHIA TO THE SEA
LISTON RANGE
EXAMINATION
STA. 275+057.48 to STA. 384+451.39

E-PS-321

VICINITY MAP



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3. VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 3.24' BELOW N.A.V.D. 88 BY THE FOLLOWING:

4. GEOID 09 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

5. SOUNDINGS WERE SELECTED FOR PLOTTING PURPOSES ONLY, USING THE MINIMUM DEPTH WITHIN A 30'X30' CELL SHIFTED TO THE CELL CENTER.

6. CONTOURS DEPICT ACTUAL LOCATION OF BATHYMETRY AND DO NOT NECESSARILY REFLECT PLOTTED SOUNDING LOCATIONS.

7. CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 15'X15' CELL.

8. HYPACK, INC. SOFTWARE WAS USED TO PERFORM THE SOUNDING SELECTION AND CONTOUR GENERATION.

9. THE INFORMATION DEPICTED ON THIS MAP REPRESENT THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

10. THE POSITIONS OF THE AIDS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY, AND SHOULD NOT BE USED FOR NAVIGATION.

11. THE LIMITS OF THE FEDERAL CHANNEL DEPICT THE MOST CURRENT CHANNEL FRAMEWORK AVAILABLE WHICH CAN ALSO BE DOWNLOADED HERE:

http://navigation.usace.army.mil/Survey/Framework

12. BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Scale in Feet
200 0 200 400 600

- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- Quarter Line
- Station Lines
- 45 - 53.953
- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40