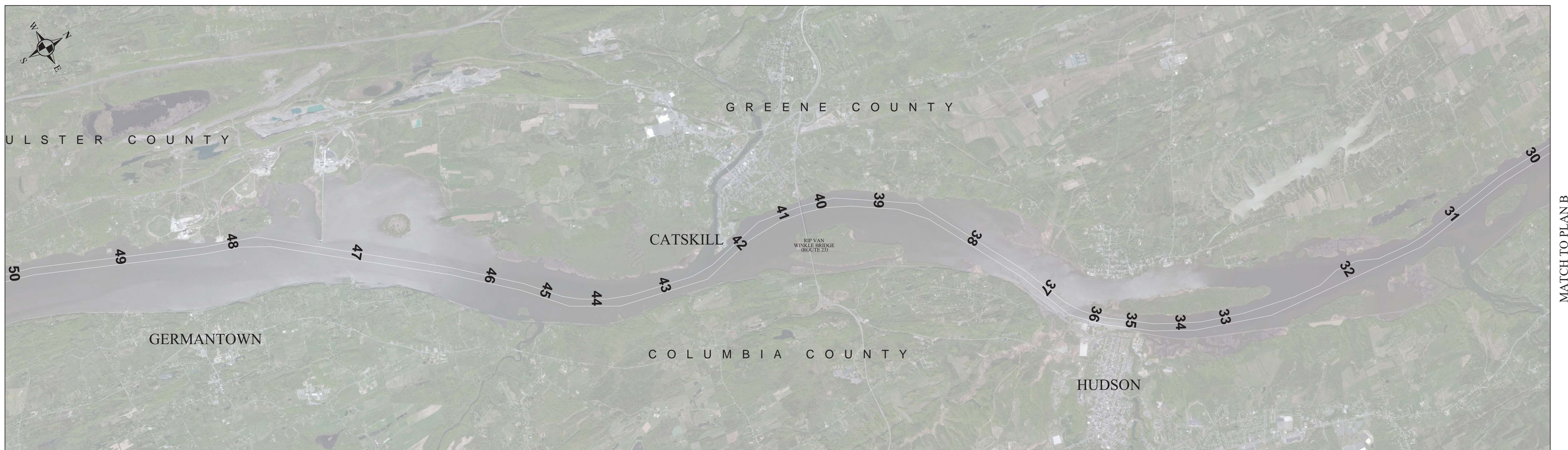


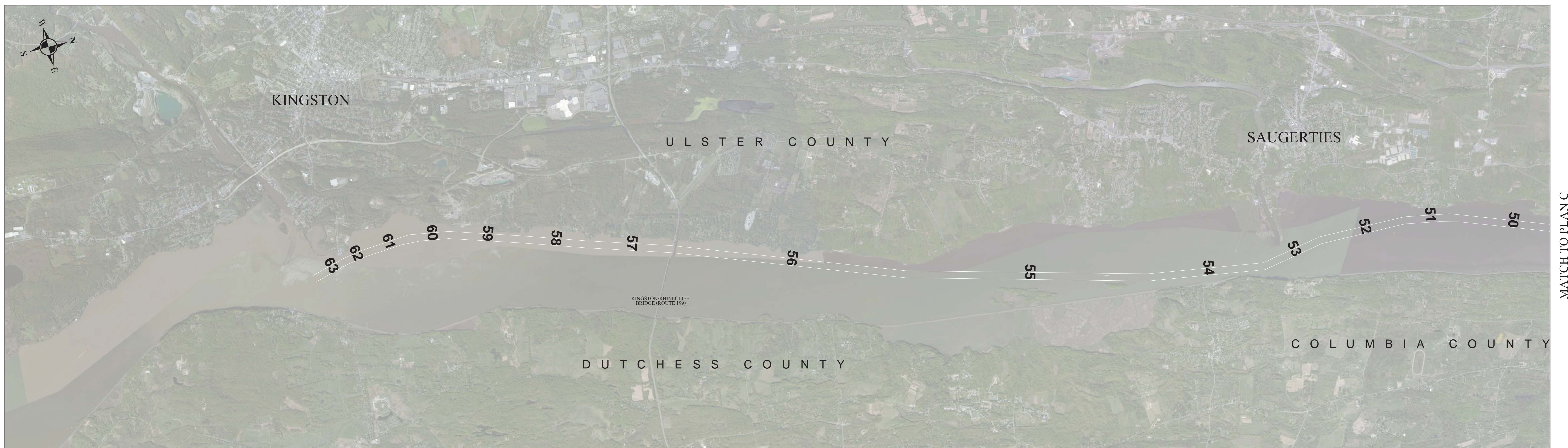
PLAN A: REACH N01 - REACH 09



PLAN B: REACH 09 - REACH 30



PLAN C: REACH 30 - REACH 50



PLAN D: REACH 50 - REACH 63

MATCH TO PLAN B

MATCH TO PLAN C

MATCH TO PLAN D

MATCH TO PLAN A

MATCH TO PLAN B

MATCH TO PLAN C

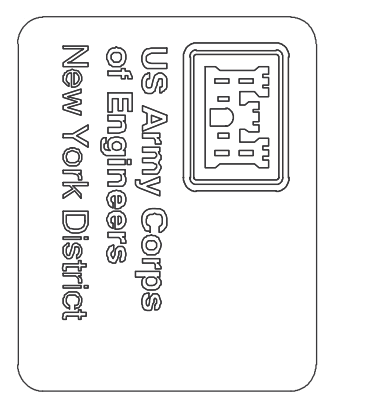
DATE: 03/22/2013
 PROJECT: HUDSON RIVER SURVEY REACH KEY
 DRAWN BY: M. HAY
 CHECKED BY: J. SMITH

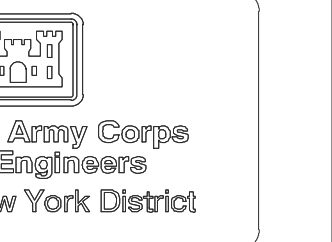
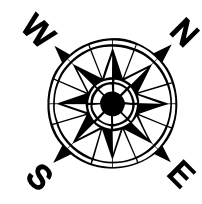
Sheet Reference Number:
1 of 1

**HUDSON RIVER
 KINGSTON TO WATERFORD, NY
 SURVEY REACH KEY**

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY		Date: MARCH 22, 2013
DESIGNED BY: M. HAY	DESIGNED BY: M. HAY	Contract no.:
APPROVED BY: WILLIAM F. PETRONIS CHIEF, CIVIL ENGINEERING	REVIEWED BY: D. MARCONE	Plot date: MARCH 2013 Plot by: M. HAY Scale: NOT TO SCALE

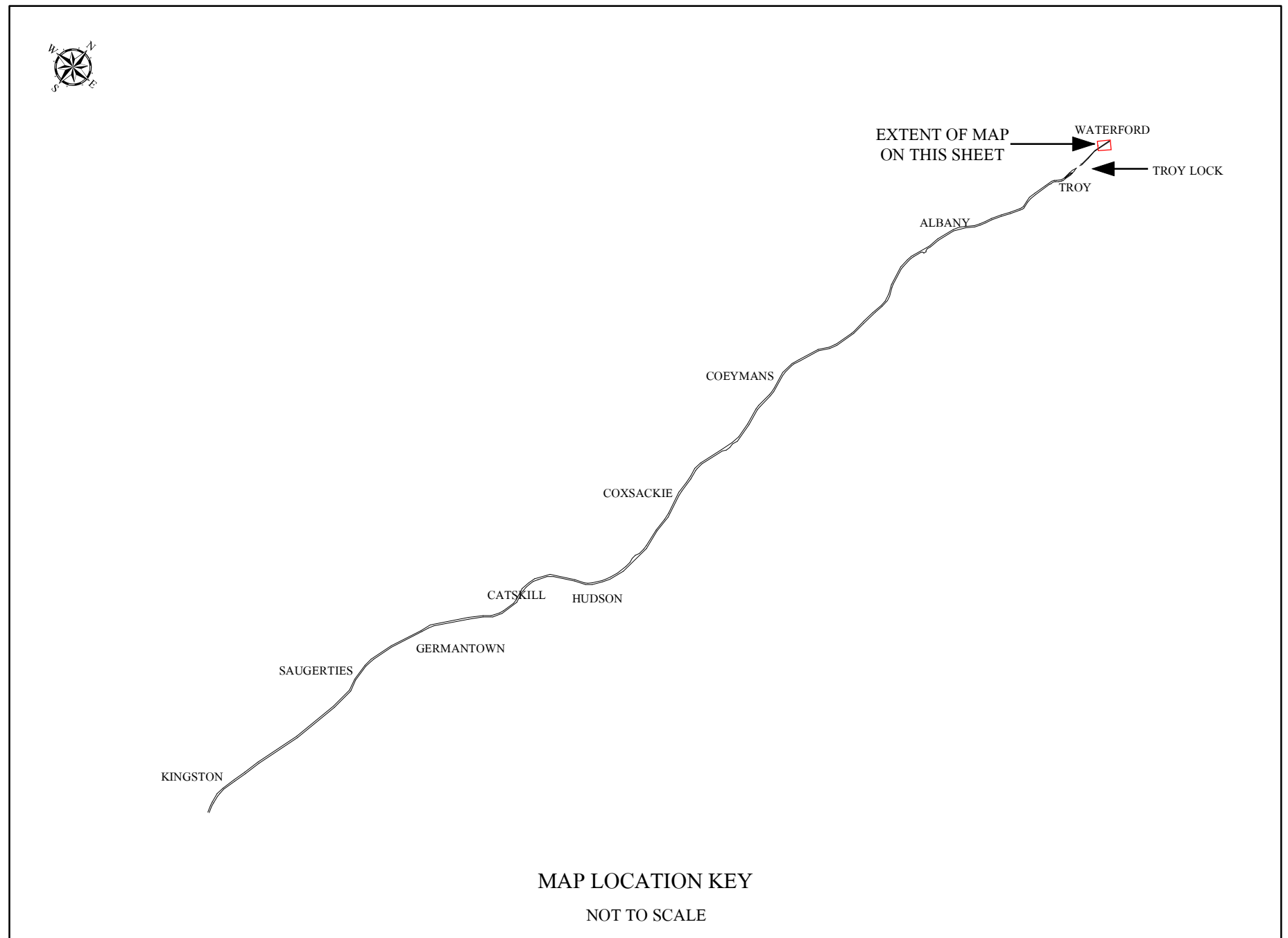
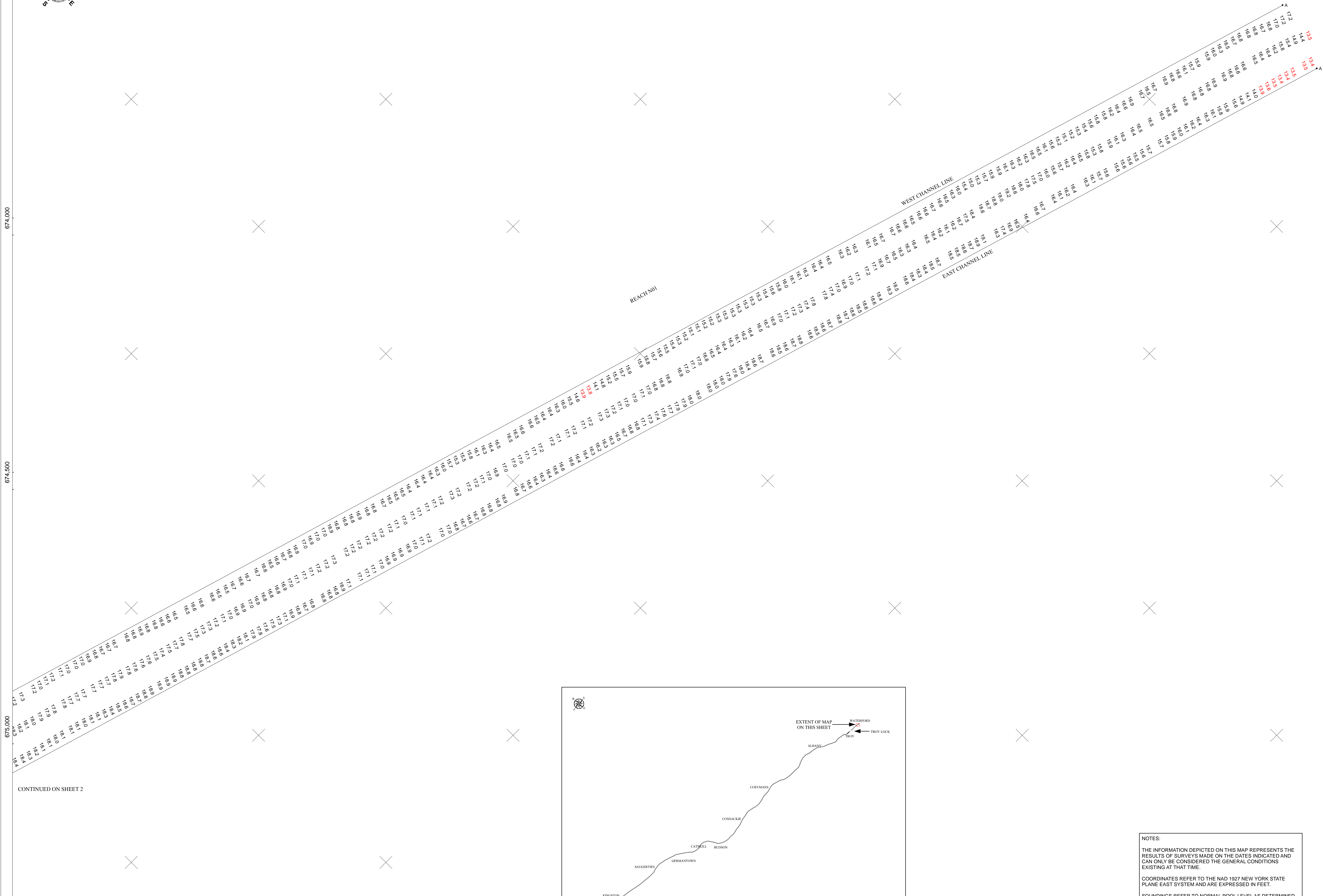
Mark	Description	Date	Appr.	Mark	Description	Date	Appr.





CONTINUED ON SHEET 2

Corner:
675,451 X
1,010,582 Y



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
A	676076.85	1014946.76
A	676268.51	1014889.58

NOTES:

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

COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.

SOUNDINGS REFER TO NORMAL POOL LEVEL AS DETERMINED FROM BENCHMARK BM#2.

BENCHMARK ELEVATION IS 25.67 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF NORMAL POOL LEVEL IS 14.3 FEET ABOVE MEAN SEA LEVEL.

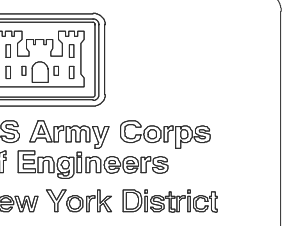
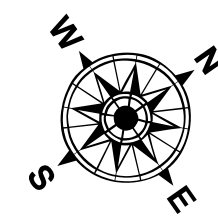
NOT TO BE USED FOR NAVIGATION.

Date	Description	Date	Description

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: FEBRUARY 22, 2013 DRAWN BY: MUMF CHECKED BY: MUMF SCALE: 1"=100' FEET
SUBMITTED BY: MATTHEW MUMF APPROVED BY: WILLIAM F. BRIDGEMAN	PROJECT NO.: 1014889.58 SHEET NO.: 1 OF 3

**TROY LOCK TO WATERFORD, NY
REACH N01**

Sheet reference number:
1 of 3

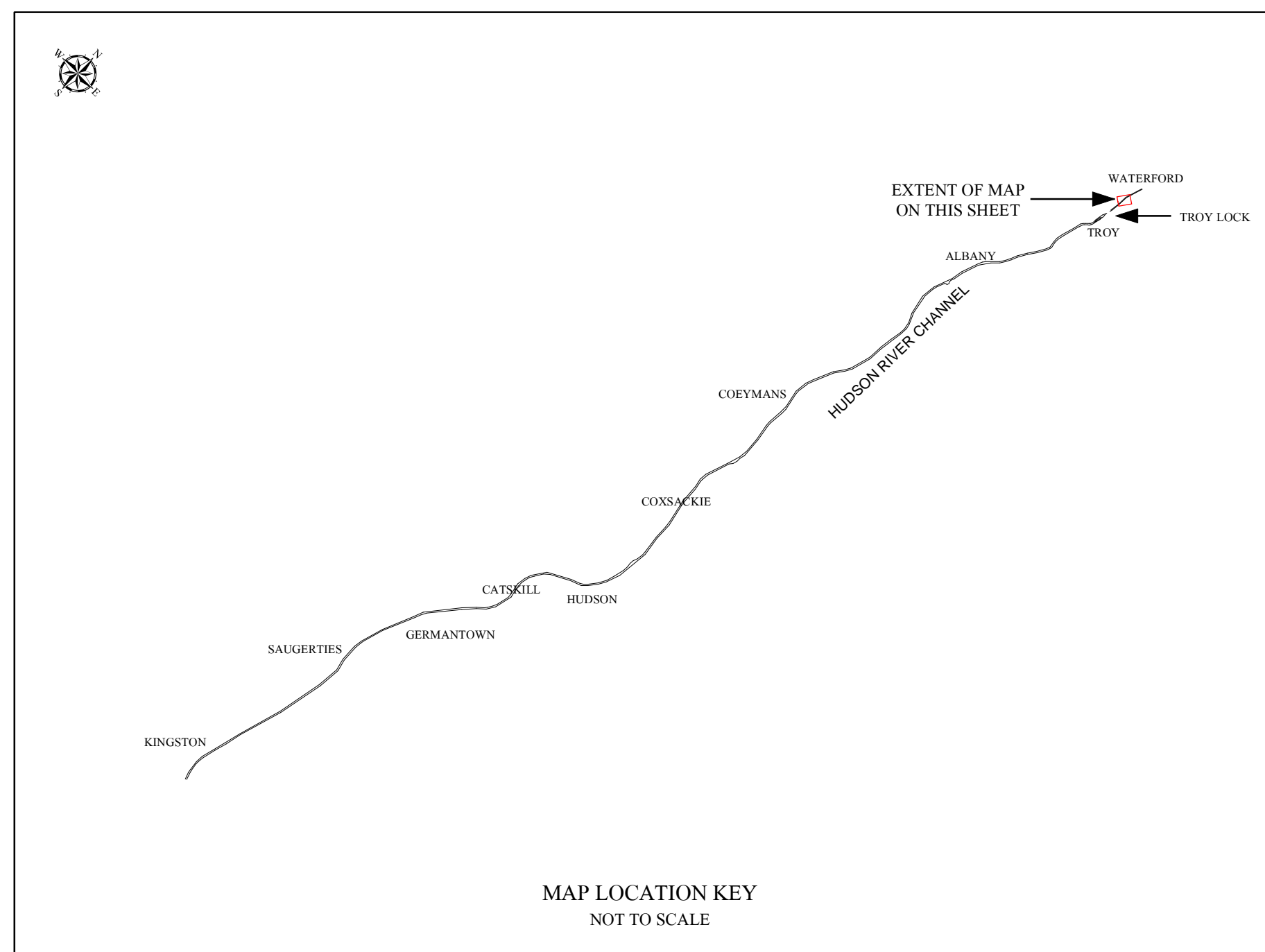
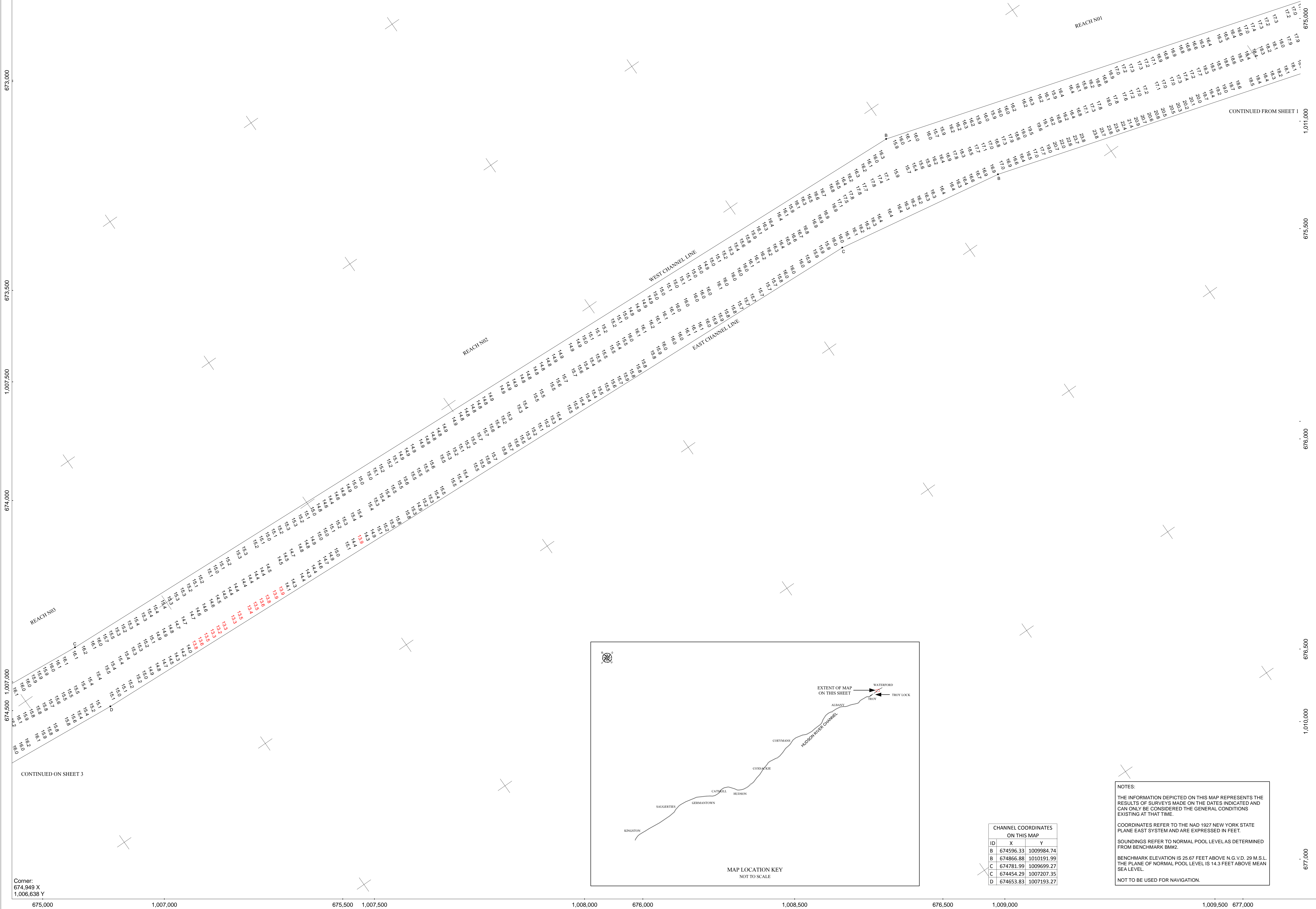


NO.	DATE	DESCRIPTION

DATE: FEBRUARY 22, 2013	DESIGNED BY: MUMBY	DATE OF SURVEY: APRIL 23, 2012	CORRECTION NO.:
PROJECT: TROY LOCK TO WATERFORD, NY	APPROVED BY: WILLIAM W. HARRIS	DATE: OCTOBER 2012	SCALE: 1/100 FEET

TROY LOCK TO WATERFORD, NY
REACHES N01-N03

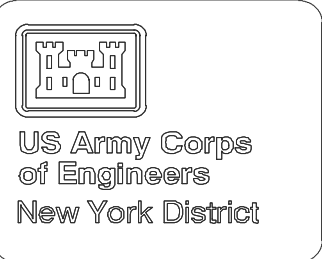
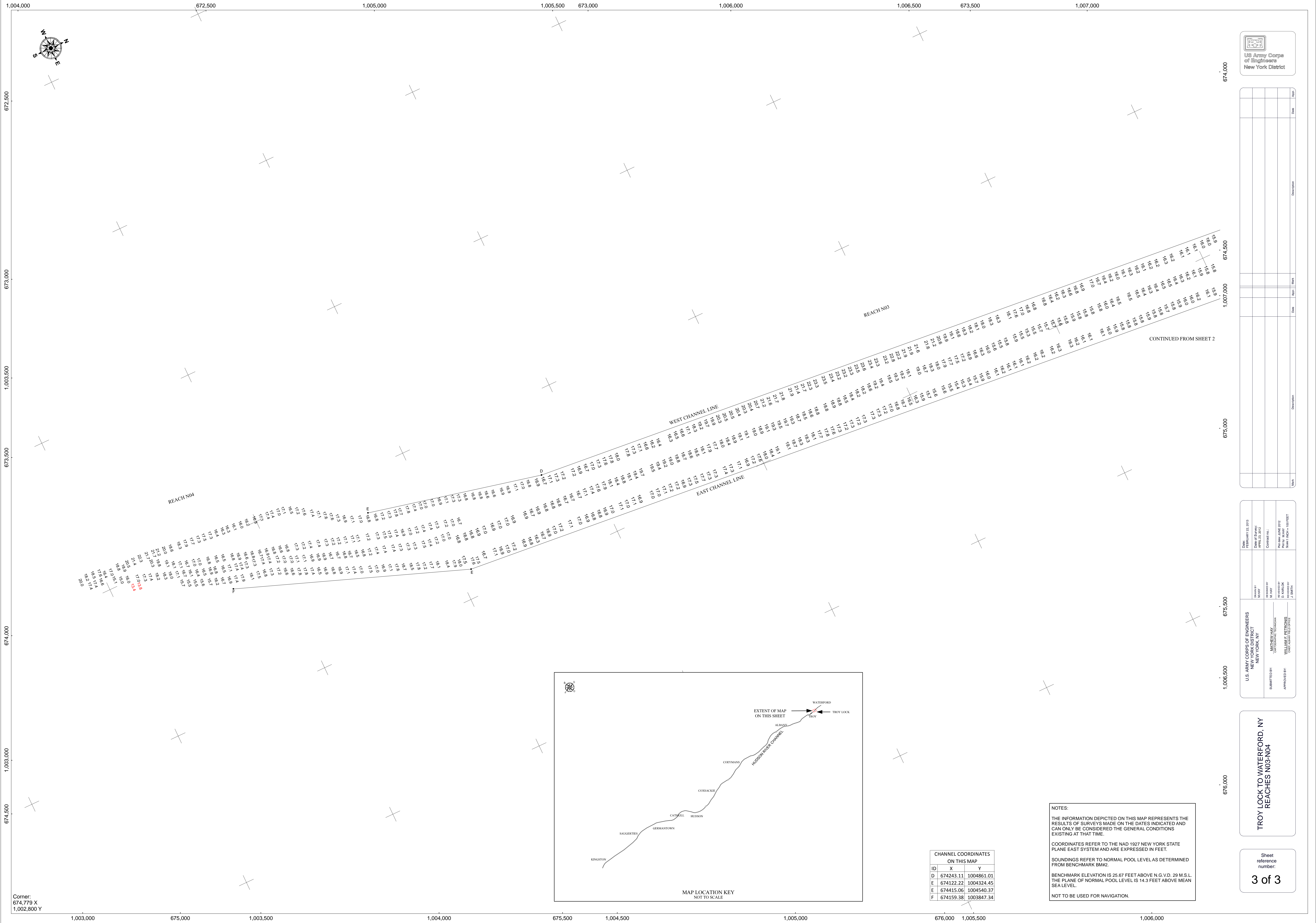
Sheet reference number:
2 of 3



ID	X	Y
B	674596.33	1009984.74
B	674866.88	1010191.99
C	674781.99	1009699.27
C	674454.29	1007207.35
D	674653.83	1007193.27

NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO NORMAL POOL LEVELS AS DETERMINED FROM BENCHMARK BM#2.
BENCHMARK ELEVATION IS 25.67 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF NORMAL POOL LEVEL IS 14.3 FEET ABOVE MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.

Corner:
674,949 X
1,006,638 Y

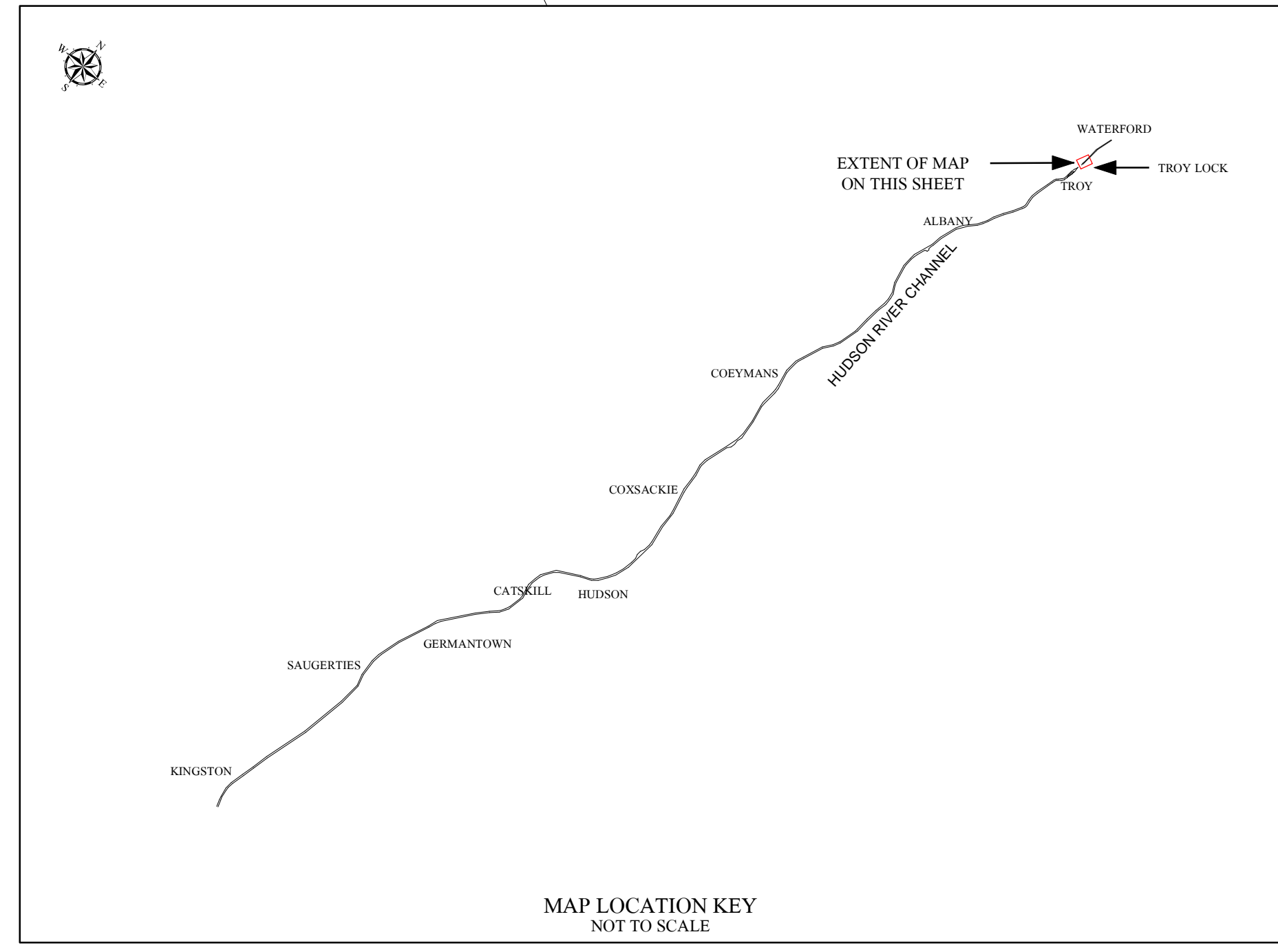


Description	Date	Drawn	Checked	Scale

Drawn	FEBRUARY 22, 2013
Checked by	MURPHY
Date of Survey	APRIL 23, 2012
Submitted by	MATTHEW J. WILSON
Reviewed by	D. KROCK
Approved by	WILLIAM F. BRIDGEMAN
Scale	HDS = 100 FEET

**TROY LOCK TO WATERFORD, NY
REACHES N03-N04**

Sheet reference number:
3 of 3

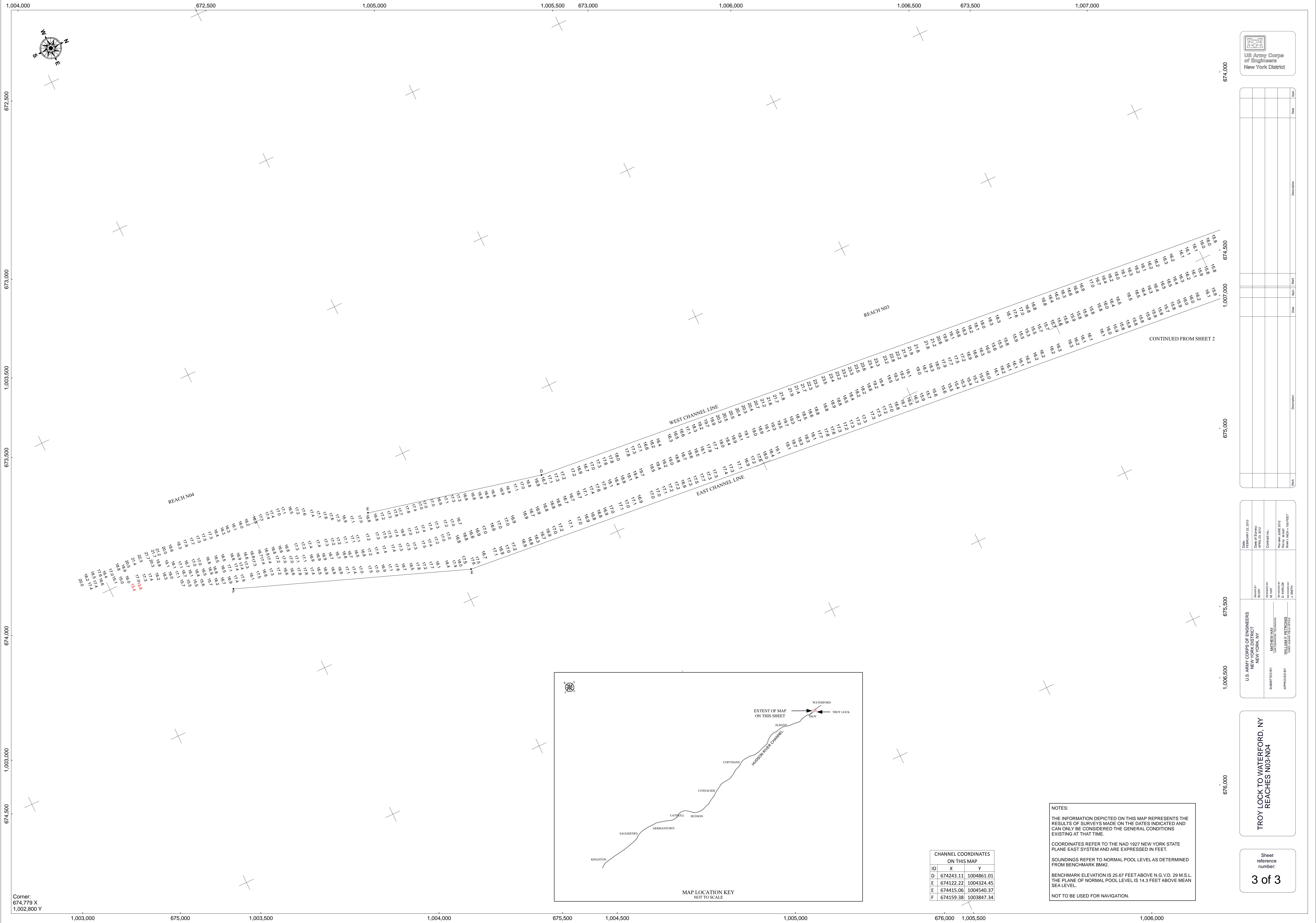


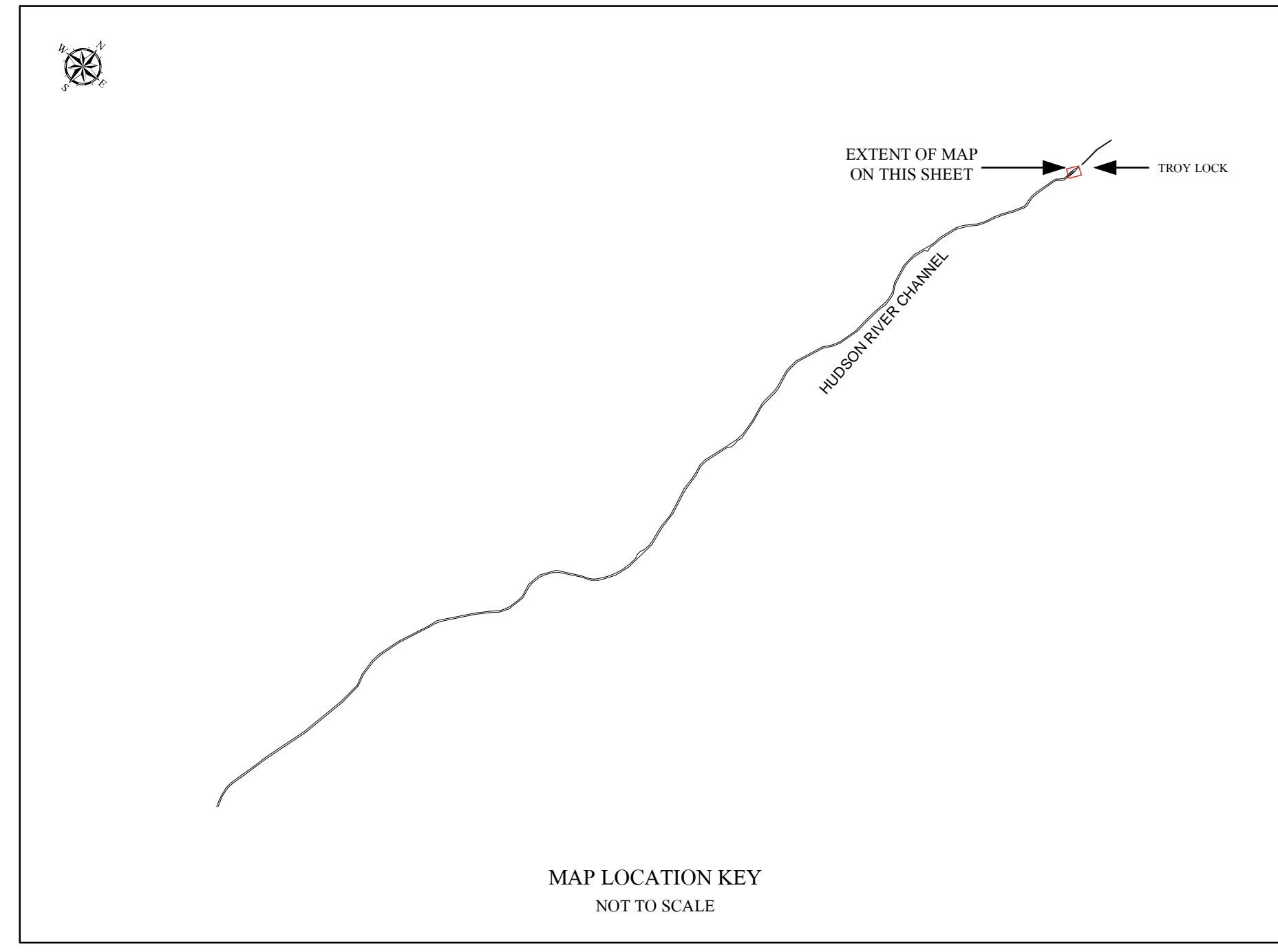
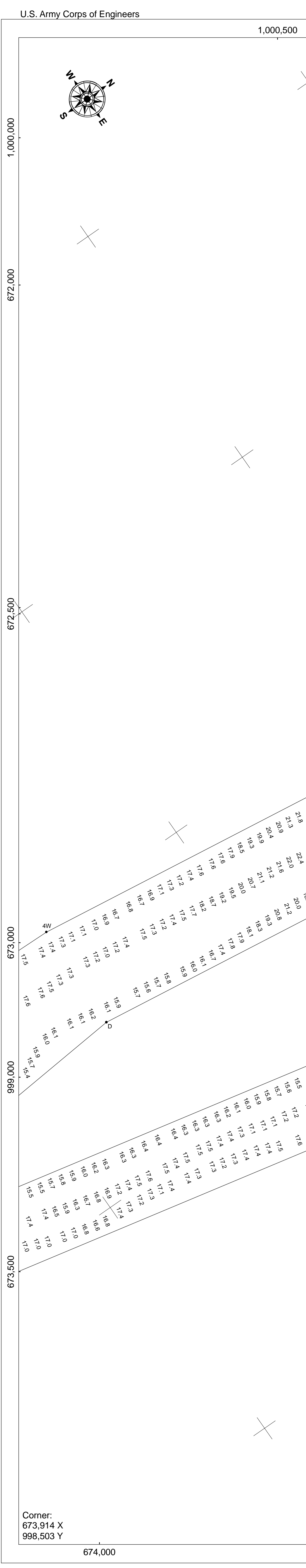
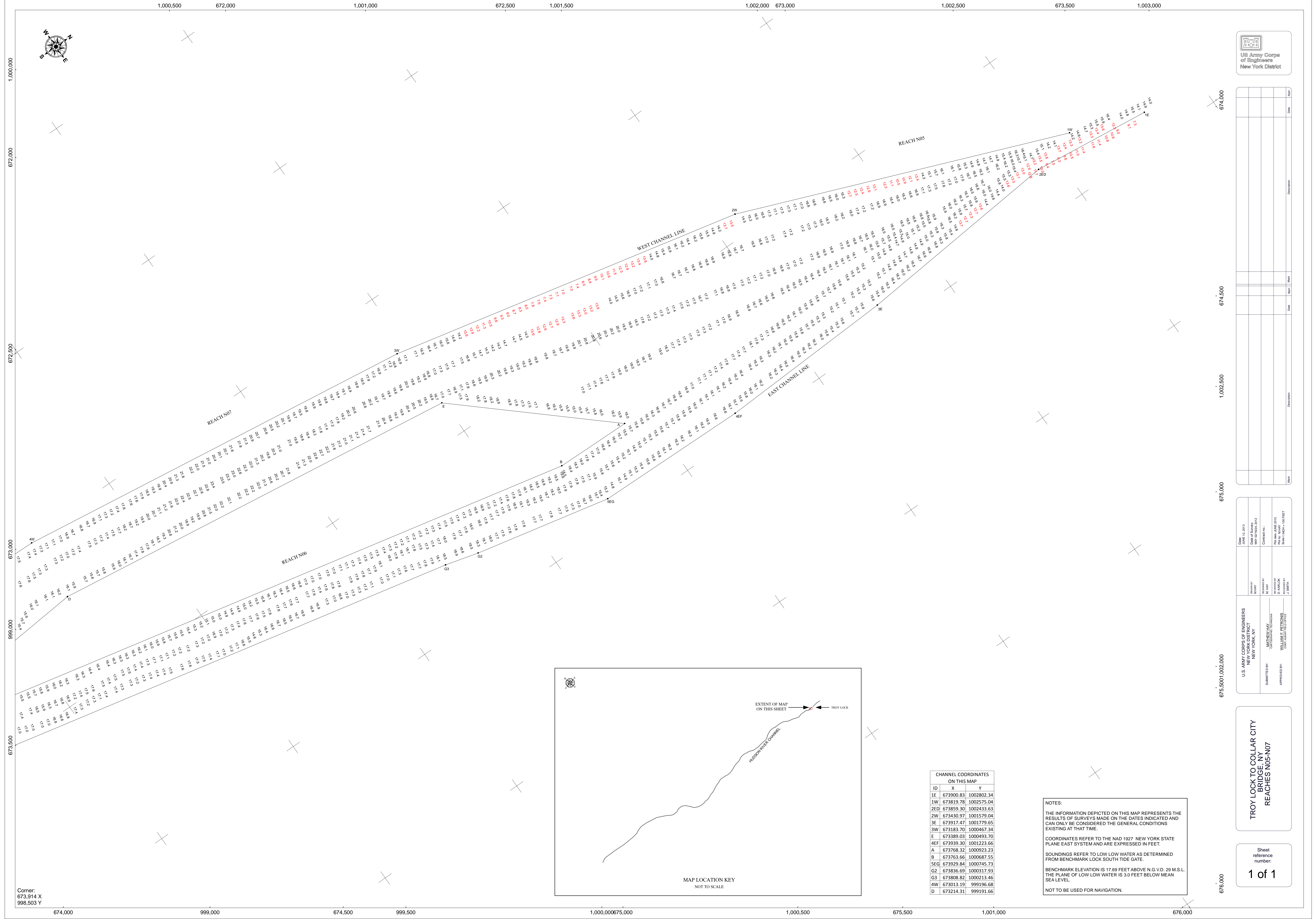
CHANNEL COORDINATES ON THIS MAP

ID	X	Y
D	674243.11	1004861.01
E	674122.22	1004324.45
E	674415.06	1004540.37
F	674159.38	1003847.34

NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO NORMAL POOL LEVEL AS DETERMINED FROM BENCHMARK BM#2.
BENCHMARK ELEVATION IS 25.67 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF NORMAL POOL LEVEL IS 14.3 FEET ABOVE MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.

Corner:
674,779 X
1,002,800 Y





CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
1E	673900.83	1002802.34
1W	673819.78	1002575.04
2ED	673859.30	1002433.63
2W	673430.97	1001579.04
3E	673917.47	1001779.65
3W	673183.70	1000467.34
E	673389.03	1000493.70
4EF	673939.30	1001223.66
A	673768.32	1000923.23
B	673763.66	1000987.55
5EG	673929.84	1000745.73
G2	673836.69	1000317.93
G3	673808.82	1000213.46
4W	673013.19	999196.68
D	673214.31	999191.66

NOTES:
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO LOW LOW WATER AS DETERMINED FROM BENCHMARK LOCK SOUTH TIDE GATE.
 BENCHMARK ELEVATION IS 17.69 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW LOW WATER IS 3.0 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

Description	Date	Scale	Map

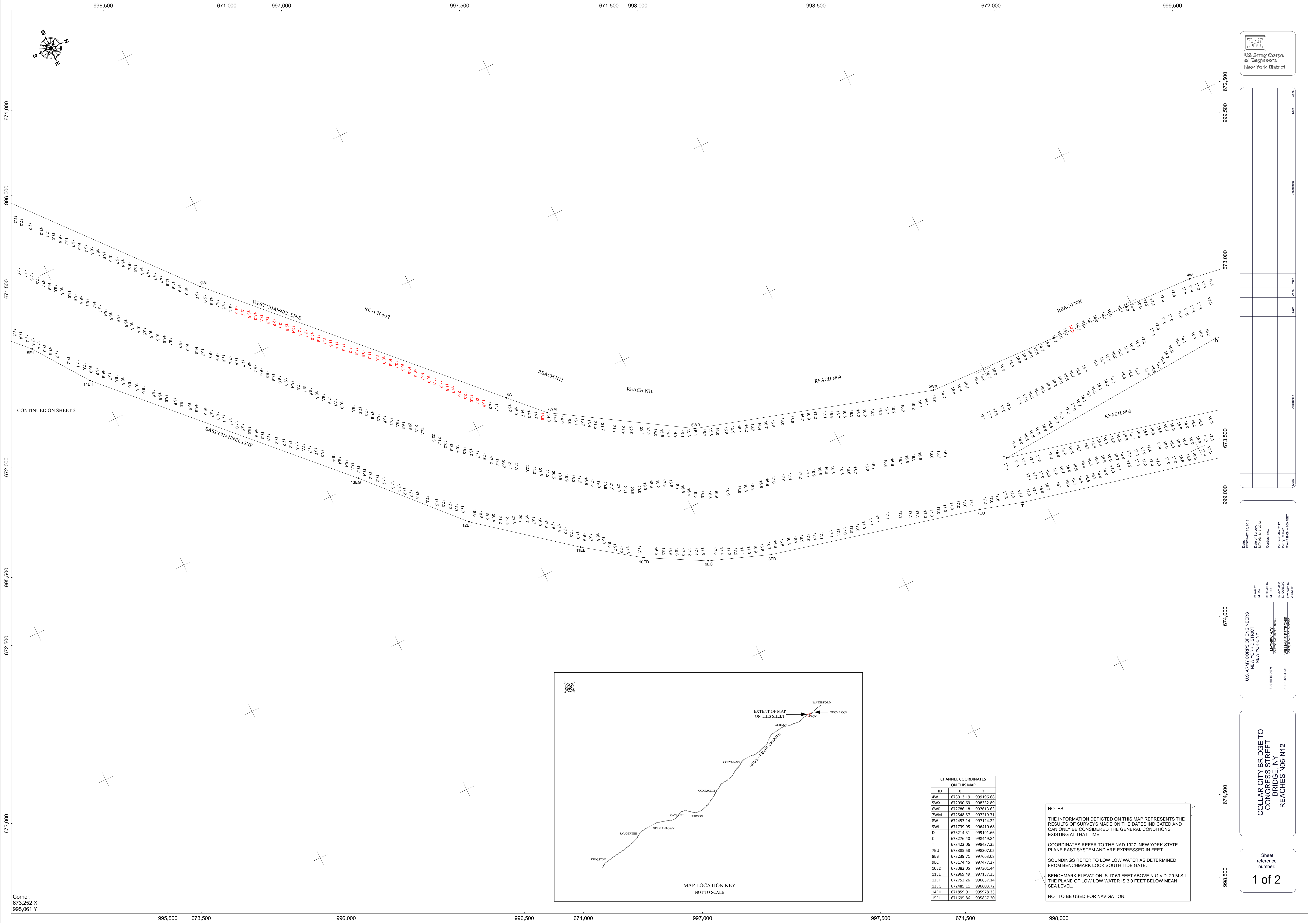
U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	Plan: JUN 12, 2013
	Date of Survey: MAY 09/2012
	Contract no.:
	Revision: 11/01/2013 Prep by: MAF Drawn by: D. WICKERS Checked by: J. JOHNSON

**TROY LOCK TO COLLAR CITY
 BRIDGE IN
 REACHES N05-N07**

Corner:
 673.914 X
 998.503 Y

1,000,000 672,000 1,001,000 672,500 1,001,500 1,002,000 673,000 1,002,500 673,500 1,003,000

1,000,000 672,000 672,500 673,000 673,500 674,000 674,500 1,002,500 675,000 675,500 1,002,000 676,000



CONTINUED ON SHEET 2

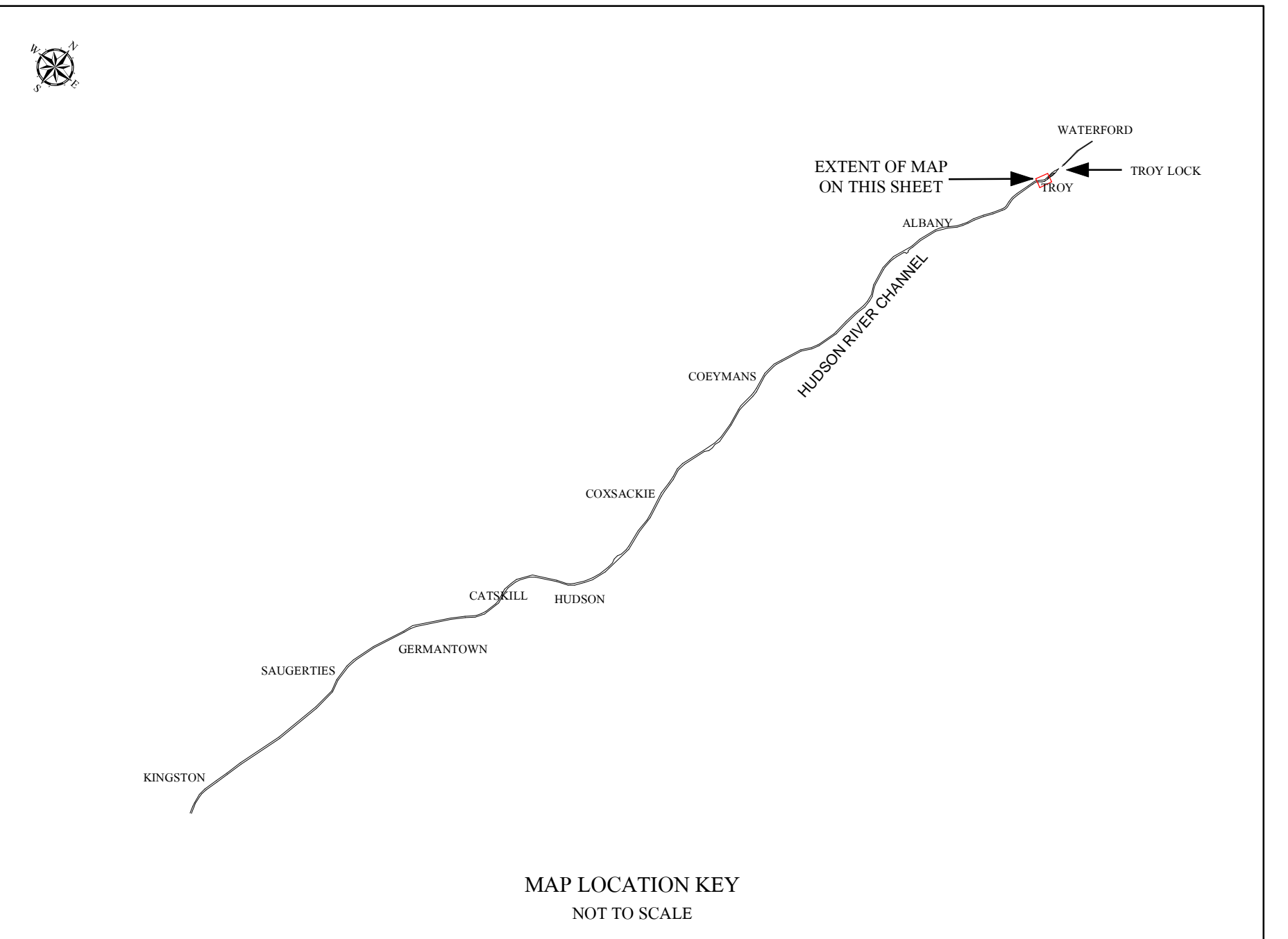
Description		DATE	BY

Drawn	FEBRUARY 25, 2013
Checked by	MAR 04/17/2013
Submitted by	MATTHEW J. WILSON
Reviewed by	D. WILSON
Approved by	MELISSA J. WILSON
Scale	1" = 100 FEET

COLLAR CITY BRIDGE TO CONGRESS STREET BRIDGE, NY REACHES N06-N12

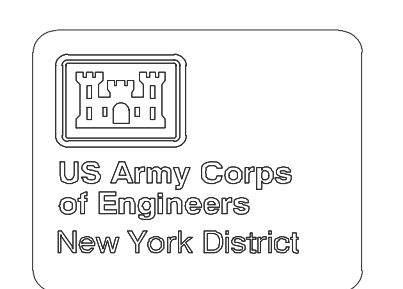
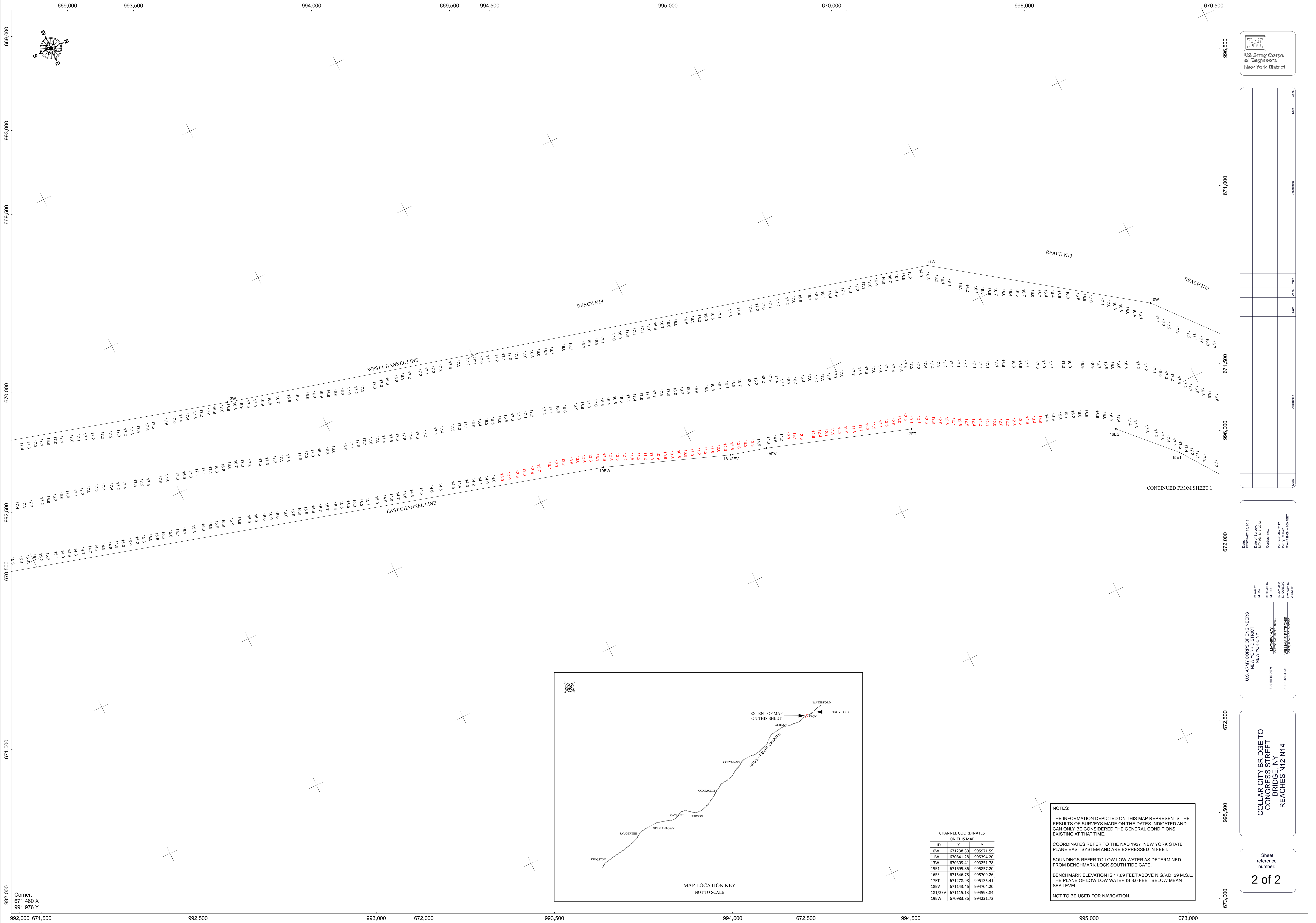
Sheet reference number:
1 of 2

Corner:
673.252 X
995.061 Y



ID	X	Y
4W	673013.19	999196.68
5WK	672990.69	998332.88
6WR	672786.38	997613.63
7WM	672548.57	997219.71
8W	672453.14	997124.22
9WL	671739.95	996410.68
D	673214.31	999191.66
C	673275.40	998449.84
T	673422.06	998437.25
7EU	673385.58	998307.05
8EB	673239.71	997663.08
9EC	673174.45	997472.27
10ED	672982.05	997301.44
11EE	672969.49	997137.25
12EF	672752.26	996857.14
13EH	672485.11	996603.72
14EI	671859.91	995978.33
15EJ	671695.86	995857.20

NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO LOW LOW WATER AS DETERMINED FROM BENCHMARK LOCK SOUTH TIDE GATE.
BENCHMARK ELEVATION IS 17.69 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW LOW WATER IS 3.0 FEET BELOW MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.



ID	Description	Date	Author	Reviewer

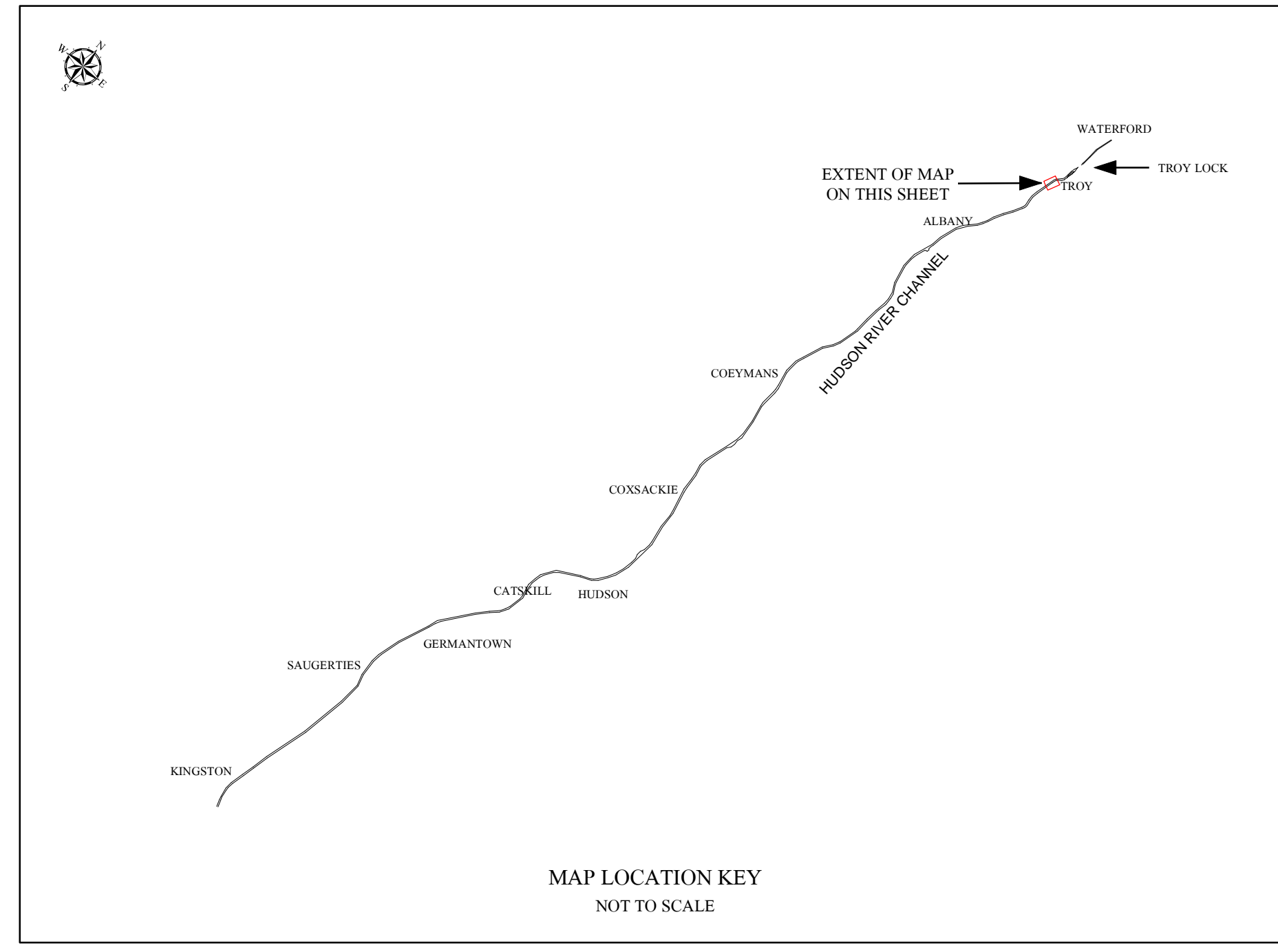
Date: February 25, 2013 Drawn by: MUMF Checked by: MUMF Approved by: MUMF	Date of Survey: May 2012 Control No.: Project No.: Scale: 1 inch = 100 feet
--	--

U.S. ARMY CORPS OF ENGINEERS
 NEW YORK DISTRICT
 NEW YORK, NY

SUBMITTED BY: MATTHEW MUMF
 APPROVED BY: WILLIAM J. BRETHERTON
 CHIEF, SURVEY SECTION

COLLAR CITY BRIDGE TO
 CONGRESS STREET
 BRIDGE, NY
 REACHES N12-N14

Sheet
 reference
 number:
2 of 2



ID	X	Y
10W	671238.80	995971.59
11W	670841.28	995394.20
13W	670309.41	993251.78
15E1	671095.96	993853.20
16ES	671546.78	995709.26
17ET	671278.98	995135.41
18EV	671143.46	994704.20
181/2EV	671115.13	994593.84
19EW	670983.86	994221.73

NOTES:

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

COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.

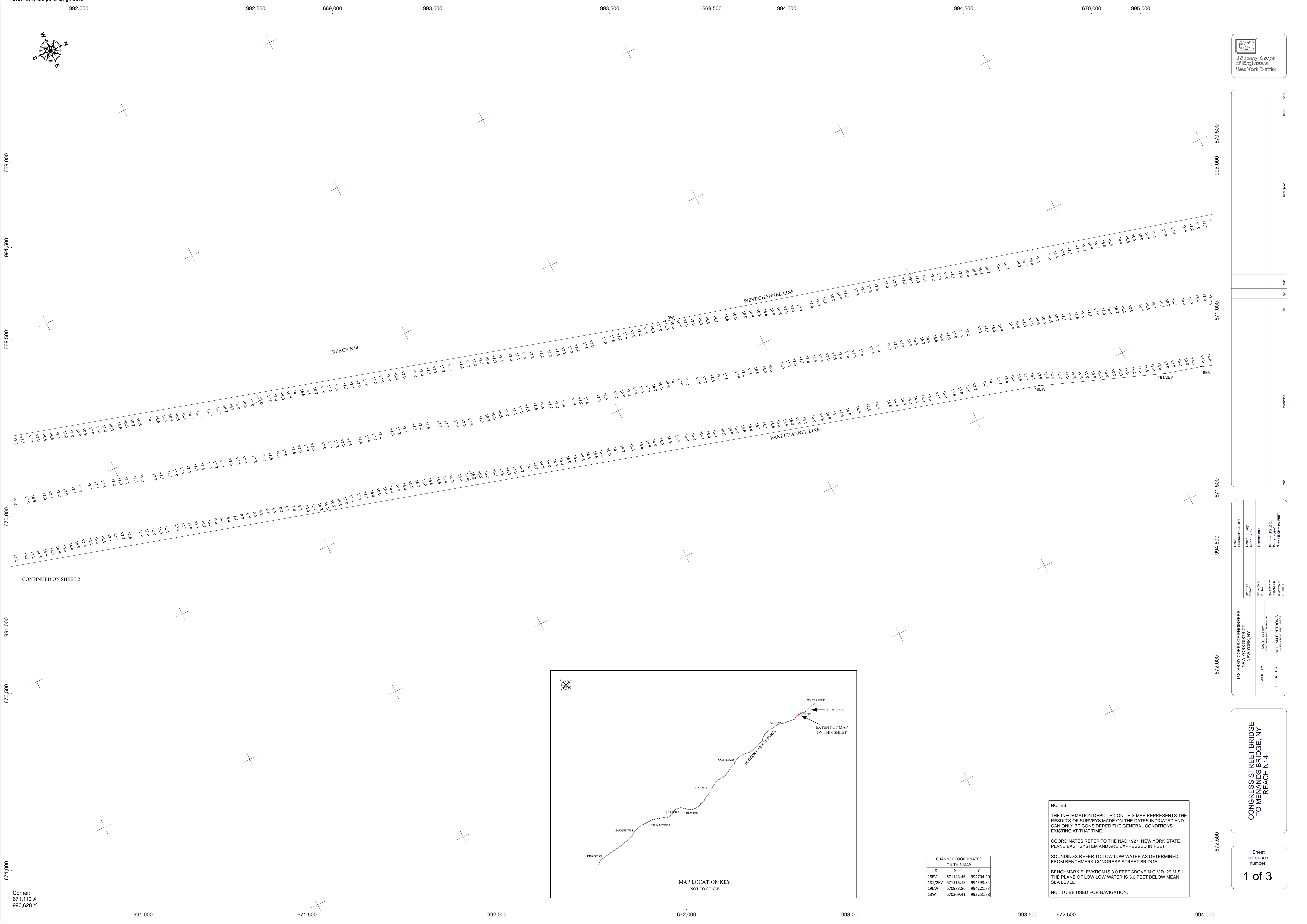
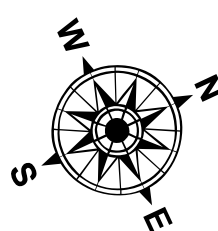
SOUNDINGS REFER TO LOW LOW WATER AS DETERMINED FROM BENCHMARK LOCK SOUTH TIDE GATE.

BENCHMARK ELEVATION IS 17.69 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW LOW WATER IS 3.0 FEET BELOW MEAN SEA LEVEL.

NOT TO BE USED FOR NAVIGATION.

Corner:
 671,460 X
 991,976 Y

992,000 671,000 992,500 670,500 993,000 672,000 993,500 671,500 994,000 671,000 994,500 670,500 995,000 670,000 995,500 670,500 996,000 670,000 996,500 670,500 997,000 670,000



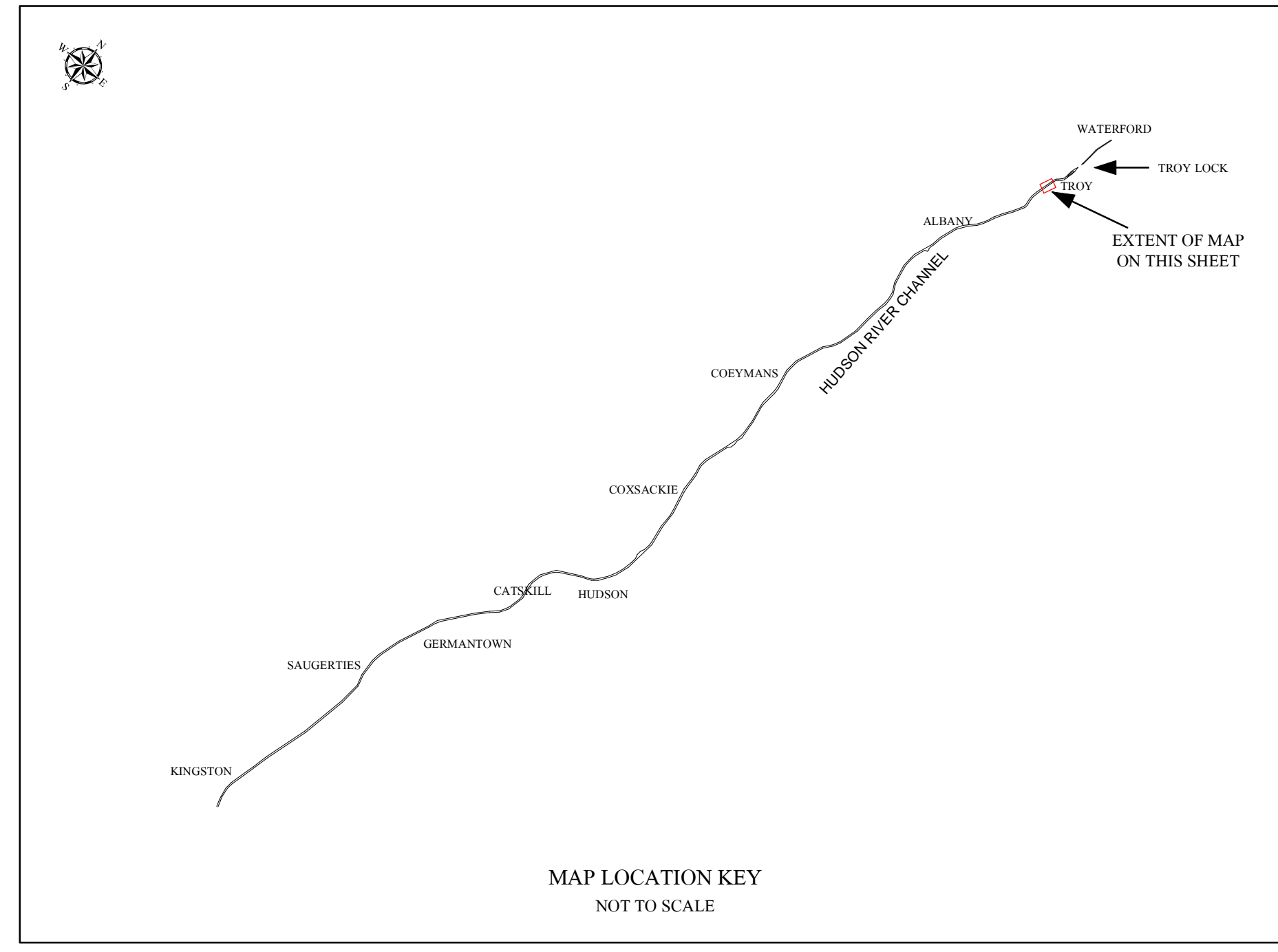
671,000
670,500
670,000
669,500
669,000
668,500

992,000 992,500 669,000 993,000 993,500 669,500 994,000 994,500 670,000 995,000

Description	Date	Drawn	Checked	Scale

CONTINUED ON SHEET 2

Date: February 25, 2013 Drawn by: MUMF Date of Survey: May 16, 2012 Checked by: MUMF Date of Check: May 16, 2012 Scale: 1 inch = 100 feet	U.S. Army Corps of Engineers New York District New York, NY Submitted by: MATTHEW J. WYATT Approved by: WILLIAM J. BRIDGEMAN Chief, Survey Section
--	---



ID	X	Y
18EV	671143.46	994704.20
181/2EV	671115.13	994593.84
19EW	670983.86	994221.73
13W	670309.41	993251.78

NOTES:
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO LOW LOW WATER AS DETERMINED FROM BENCHMARK CONGRESS STREET BRIDGE.
 BENCHMARK ELEVATION IS 3.0 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW LOW WATER IS 3.0 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

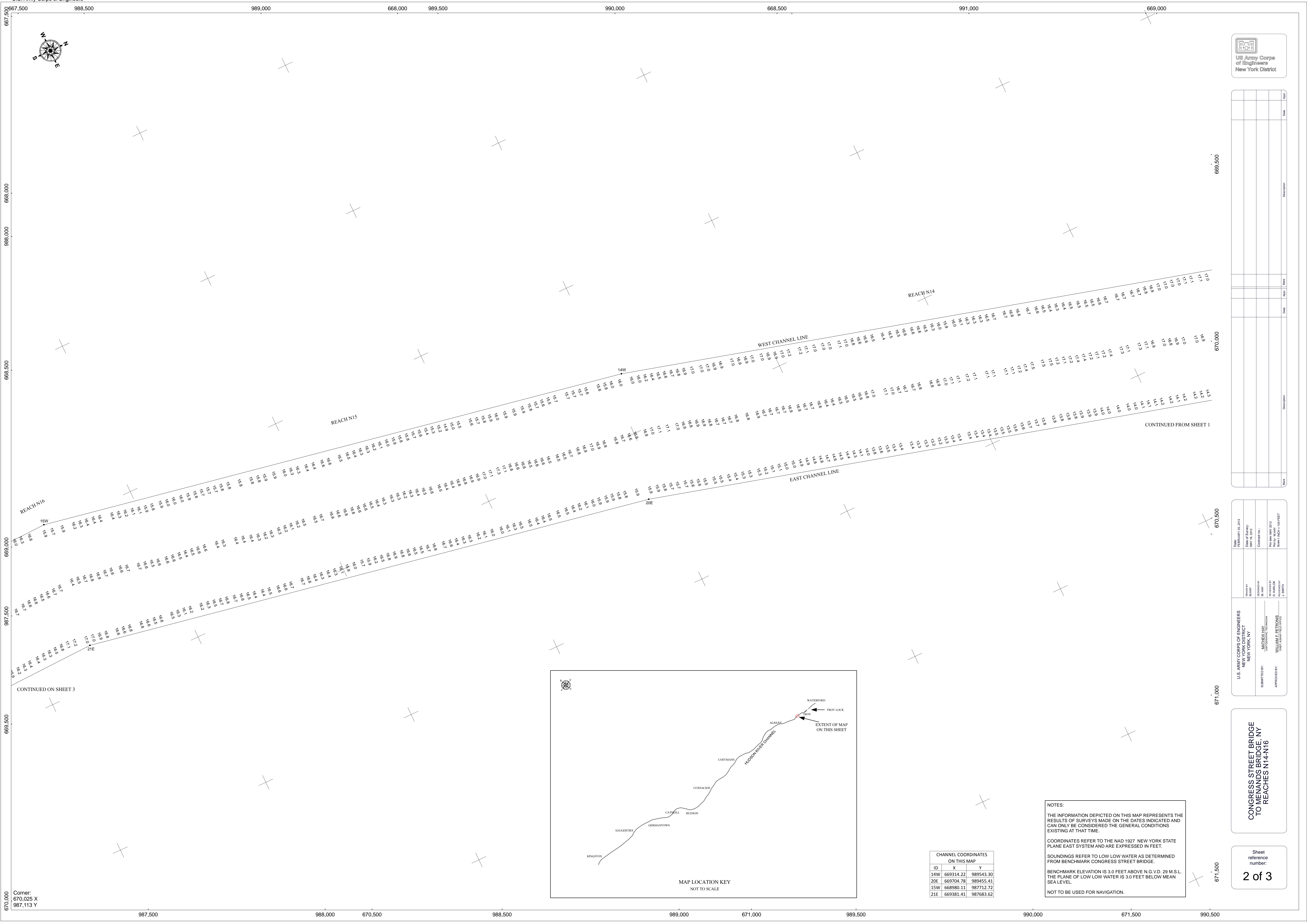
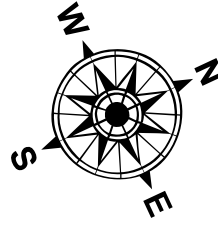
Corner:
671,110 X
990,628 Y

CONGRESS STREET BRIDGE
TO MENANDS BRIDGE, NY
REACH N14

Sheet reference number:
1 of 3

671,000

991,000 671,500 992,000 672,000 993,000 993,500 672,500 994,000

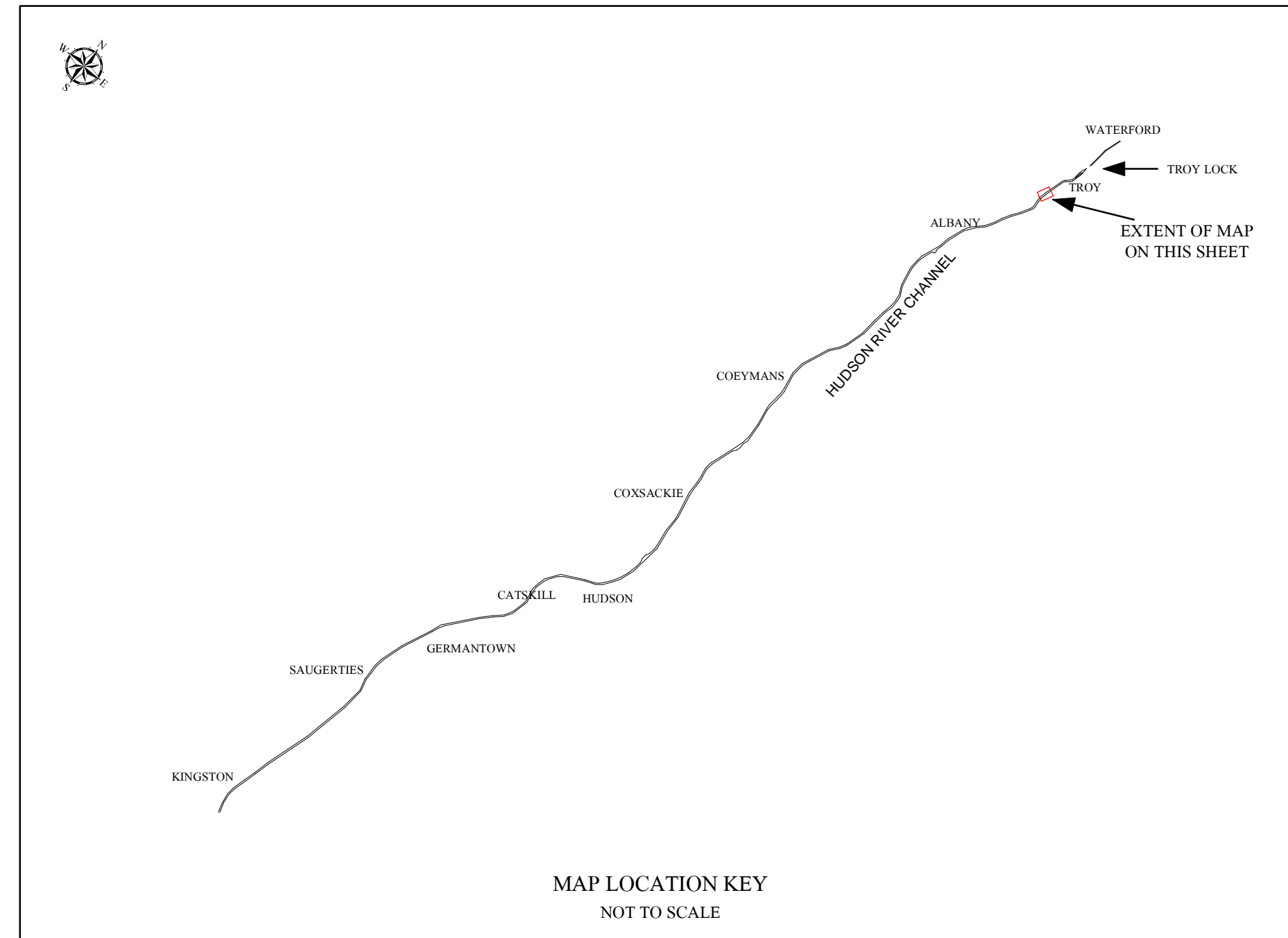


Date	Description	Drawn	Checked	Scale

Drawn	FEBRUARY 25, 2013
Date of Survey	MAY 18, 2012
Drawn by	MURPHY
Approved by	MURPHY
Checked by	D. KNECK
Scale	1" = 100 FEET

CONGRESS STREET BRIDGE TO MENANDS BRIDGE, NY REACHES N14-N16

Sheet reference number:
2 of 3



ID	X	Y
14W	669314.22	989543.30
20E	669704.78	989455.41
15W	668980.11	987712.71
21E	669381.41	987683.62

NOTES:
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO LOW LOW WATER AS DETERMINED FROM BENCHMARK CONGRESS STREET BRIDGE.
 BENCHMARK ELEVATION IS 3.0 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW LOW WATER IS 3.0 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

Corner:
670.025 X
987.113 Y

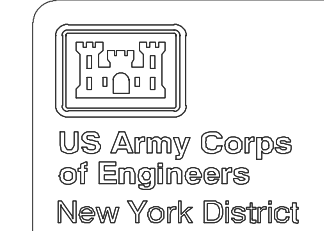
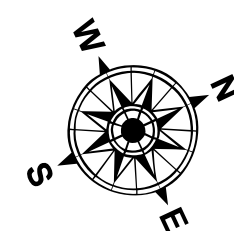
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669,500 669,000 668,500 668,000 667,500

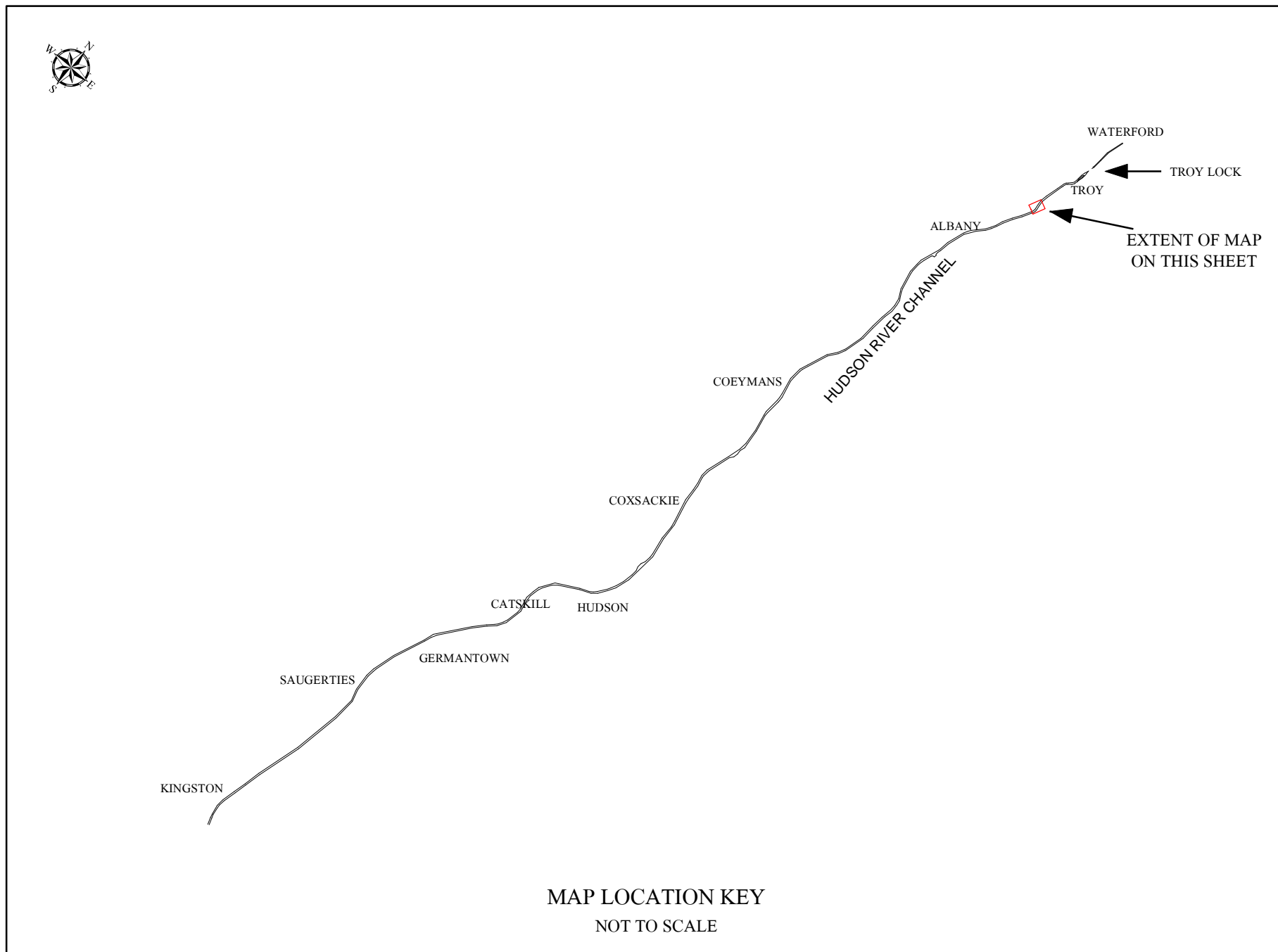
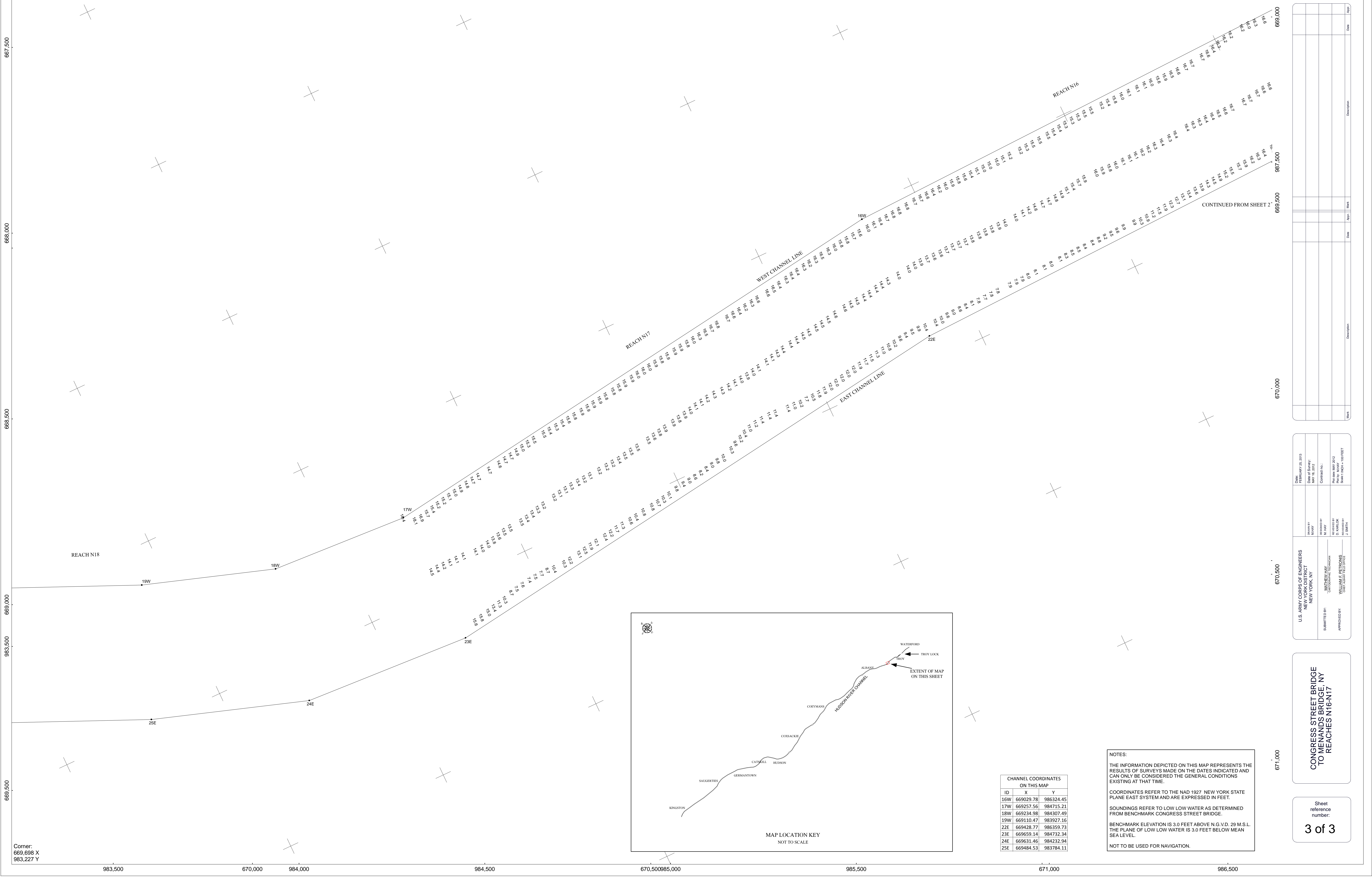
670,000 669,500 669,000 668,500 668,000 667,500

REACH N14
 WEST CHANNEL LINE
 EAST CHANNEL LINE
 REACH N15
 REACH N16
 CONTINUED ON SHEET 3
 CONTINUED FROM SHEET 1

14W 20E 15W 21E



ID	Description	Date	Drawn	Checked	Scale



ID	X	Y
16W	669029.78	986324.45
17W	669257.56	984715.21
18W	669234.98	984307.49
19W	669110.47	983927.16
22E	669428.77	986359.73
23E	669659.14	984732.34
24E	669631.46	984232.94
25E	669484.53	983784.11

NOTES:
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 BENCHMARK ELEVATION IS 3.0 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW LOW WATER IS 3.0 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

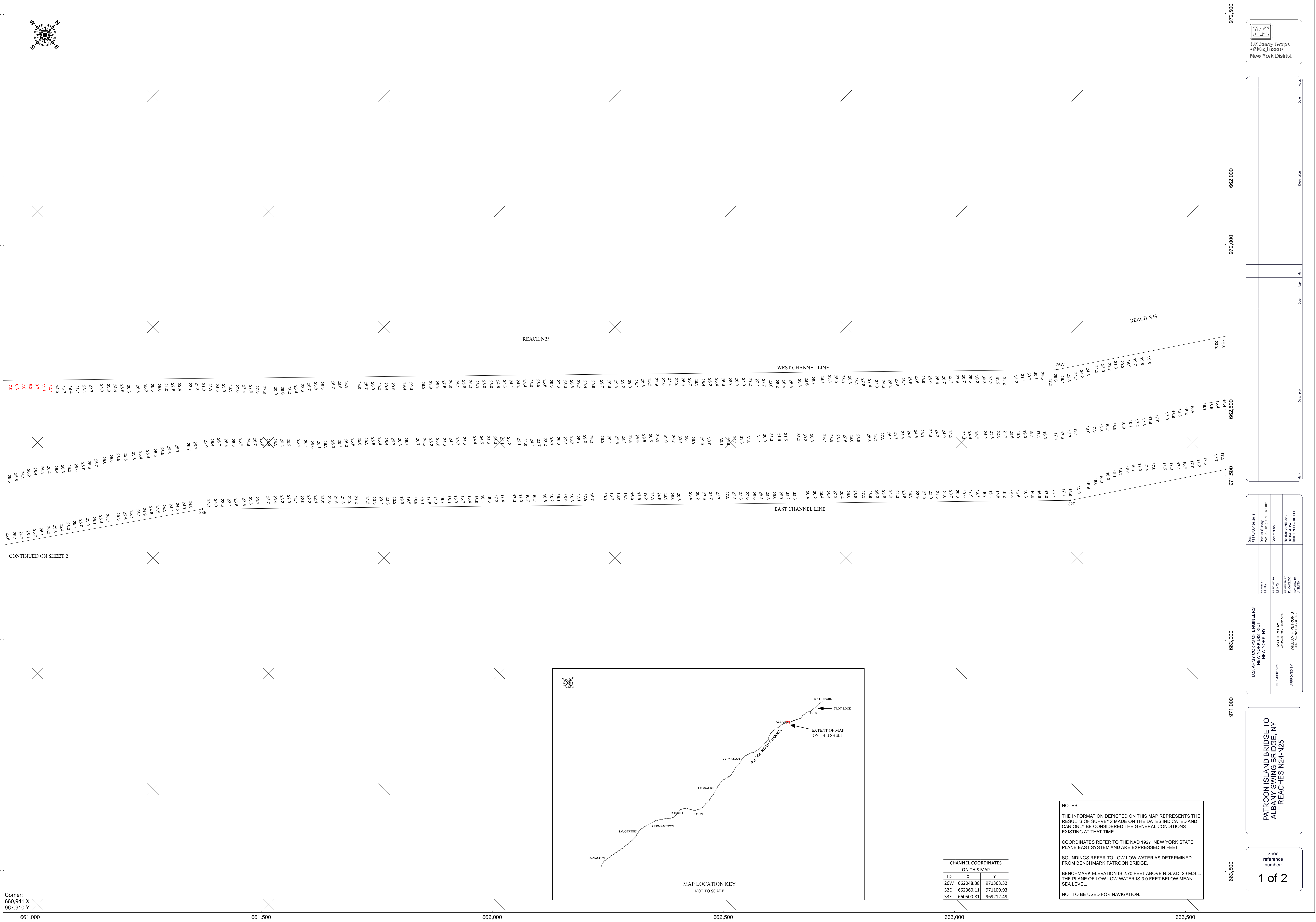
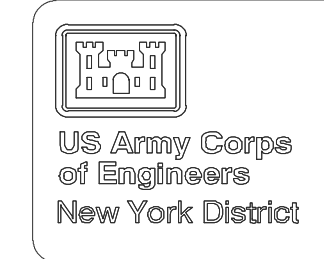
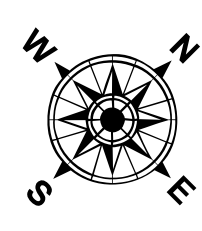
Corner:
 669,698 X
 983,227 Y

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: FEBRUARY 25, 2013 DATE OF SURVEY: MAY 16, 2012
DESIGNED BY: MATTHEW MANN CHECKED BY: D. KIRK APPROVED BY: WILLIAM B. BRIDGEMAN	CONTRACT NO.: PROJECT NO.: SCALE: (HORIZONTAL) = 1"=100 FEET

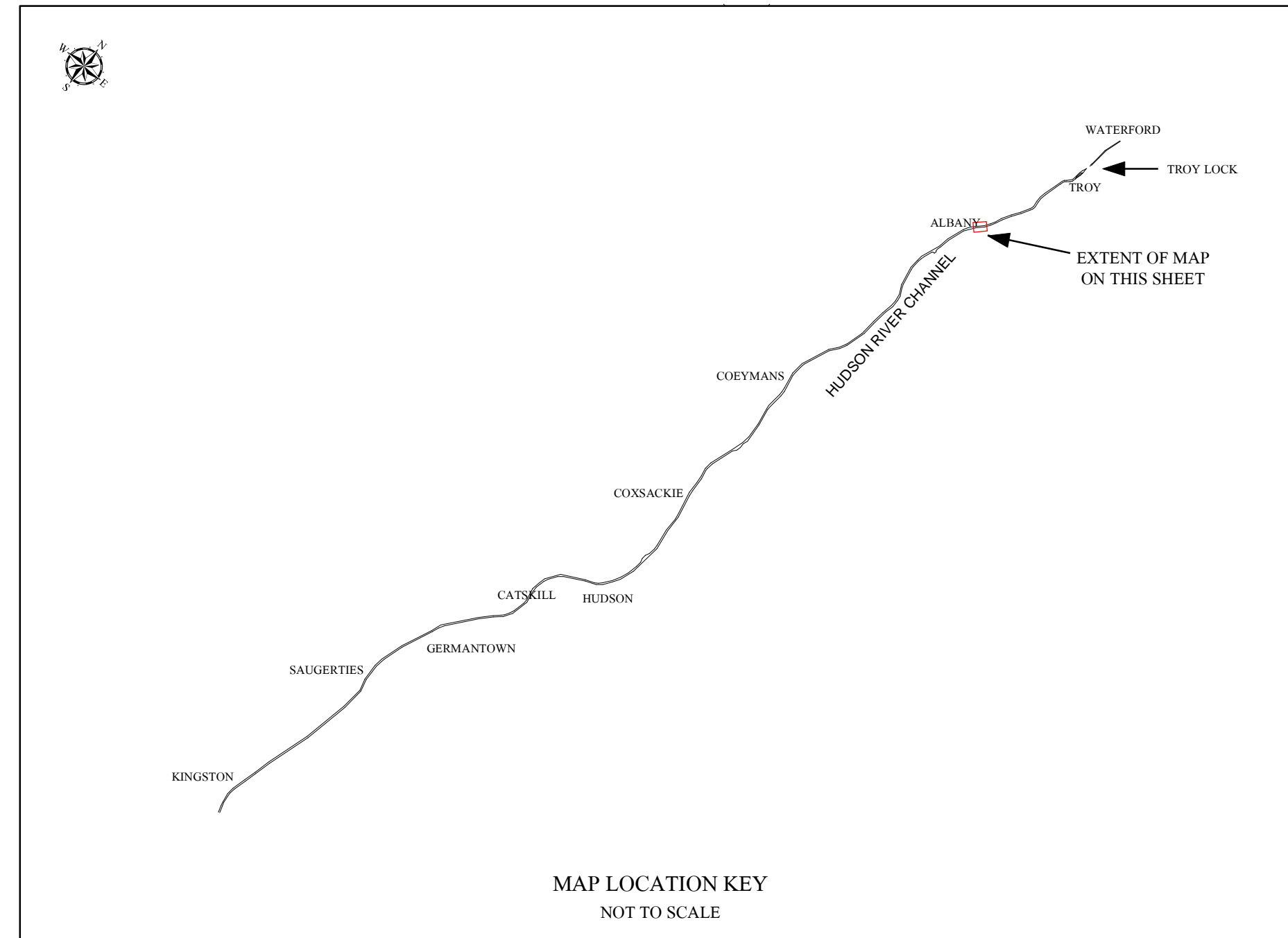
CONGRESS STREET BRIDGE TO MENANDS BRIDGE, NY REACHES N16-N17

Sheet reference number:
3 of 3

659,000 970,000 659,500 970,500 660,000 971,000 660,500 971,500 661,000 972,000 661,500 972,500



CONTINUED ON SHEET 2



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
25W	662048.38	971363.32
32E	663939.86	971110.93
33E	660500.81	969212.49

NOTES:
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO LOW LOW WATER AS DETERMINED FROM BENCHMARK PATROON BRIDGE.
 BENCHMARK ELEVATION IS 2.70 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW LOW WATER IS 3.0 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

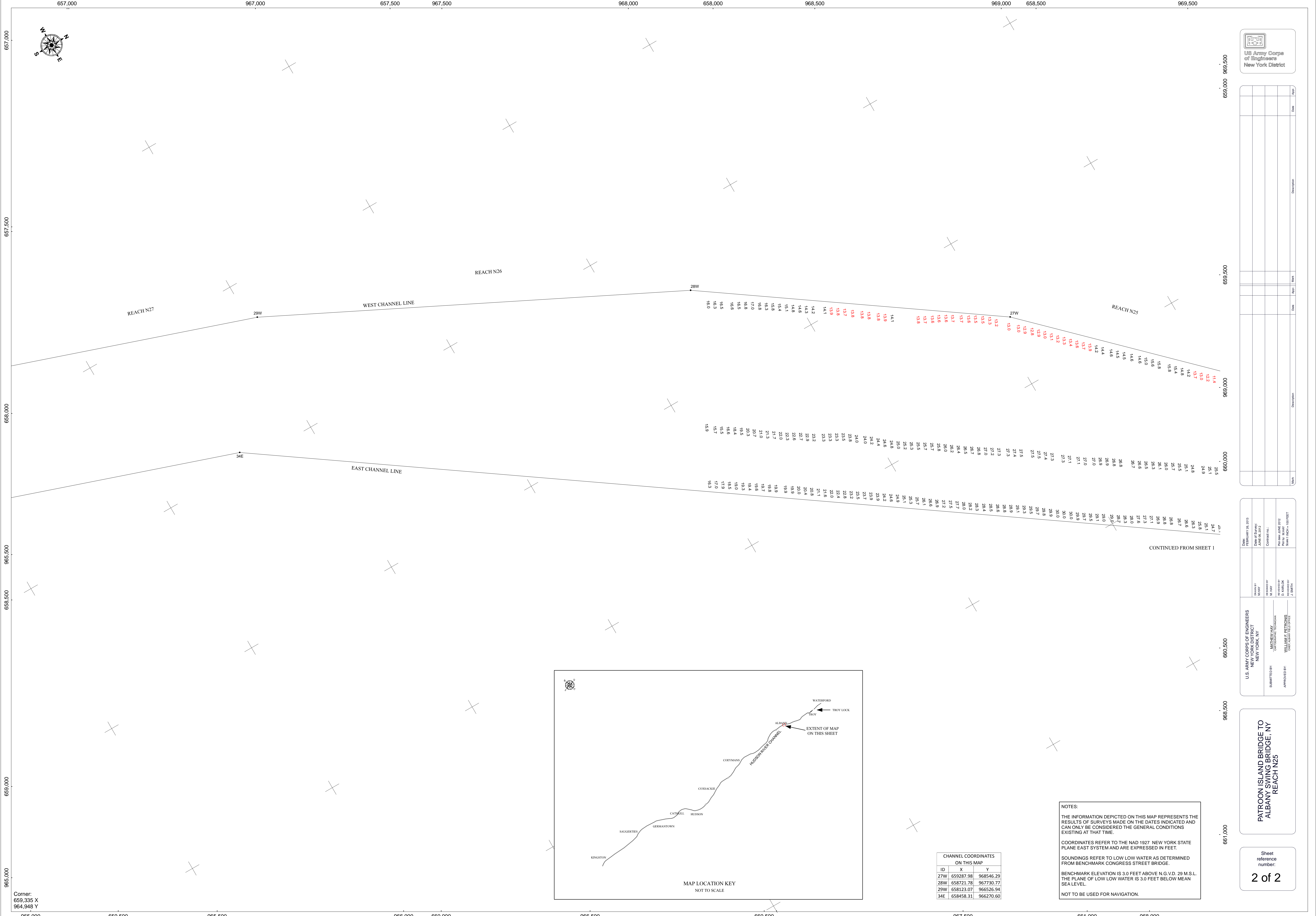
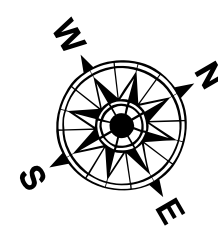
Corner:
660,941 X
967,910 Y

Date	Description	Year	Date	Description	Year

U.S. ARMY CORPS OF ENGINEERS
 NEW YORK DISTRICT
 NEW YORK, NY
 SUBMITTED BY: MATTHEW J. HANCOCK
 DATE OF SURVEY: MAY 21, 2012
 APPROVED BY: WILLIAM P. BRIDGEMAN
 DATE: 06/27/2012

PATROON ISLAND BRIDGE TO ALBANY SWING BRIDGE, NY REACHES N24-N25

657,000 967,000 657,500 967,500 968,000 658,000 968,500 969,000 658,500 969,500



Corner: 659,335 X 964,948 Y

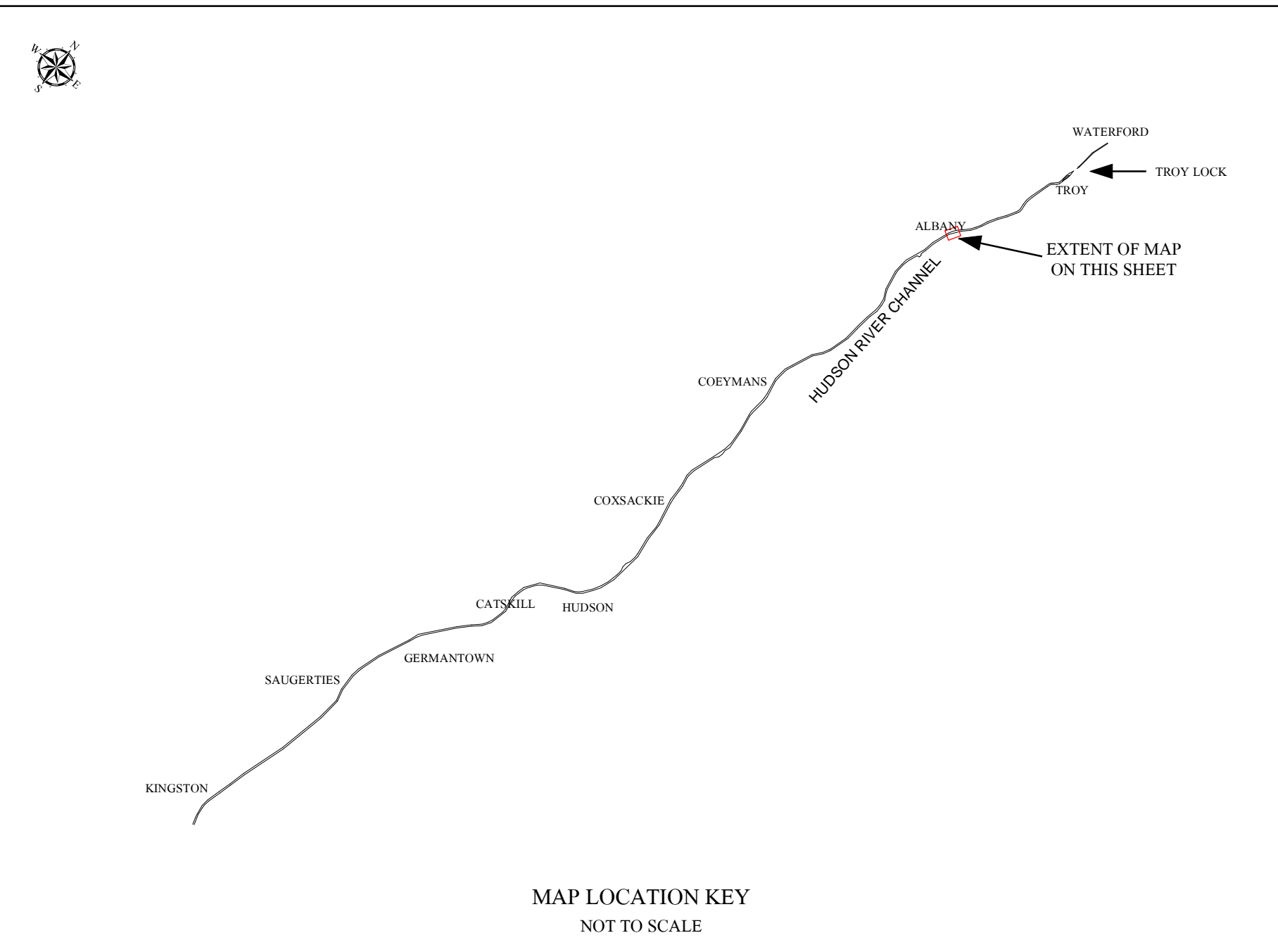


Table with 3 columns: ID, X, Y. Contains coordinates for points 27W, 28W, 29W, and 34E.

NOTES: THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME. COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET. SOUNDINGS REFER TO LOW LOW WATER AS DETERMINED FROM BENCHMARK CONGRESS STREET BRIDGE. BENCHMARK ELEVATION IS 3.0 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW LOW WATER IS 3.0 FEET BELOW MEAN SEA LEVEL. NOT TO BE USED FOR NAVIGATION.

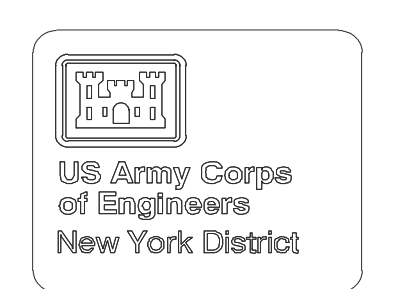
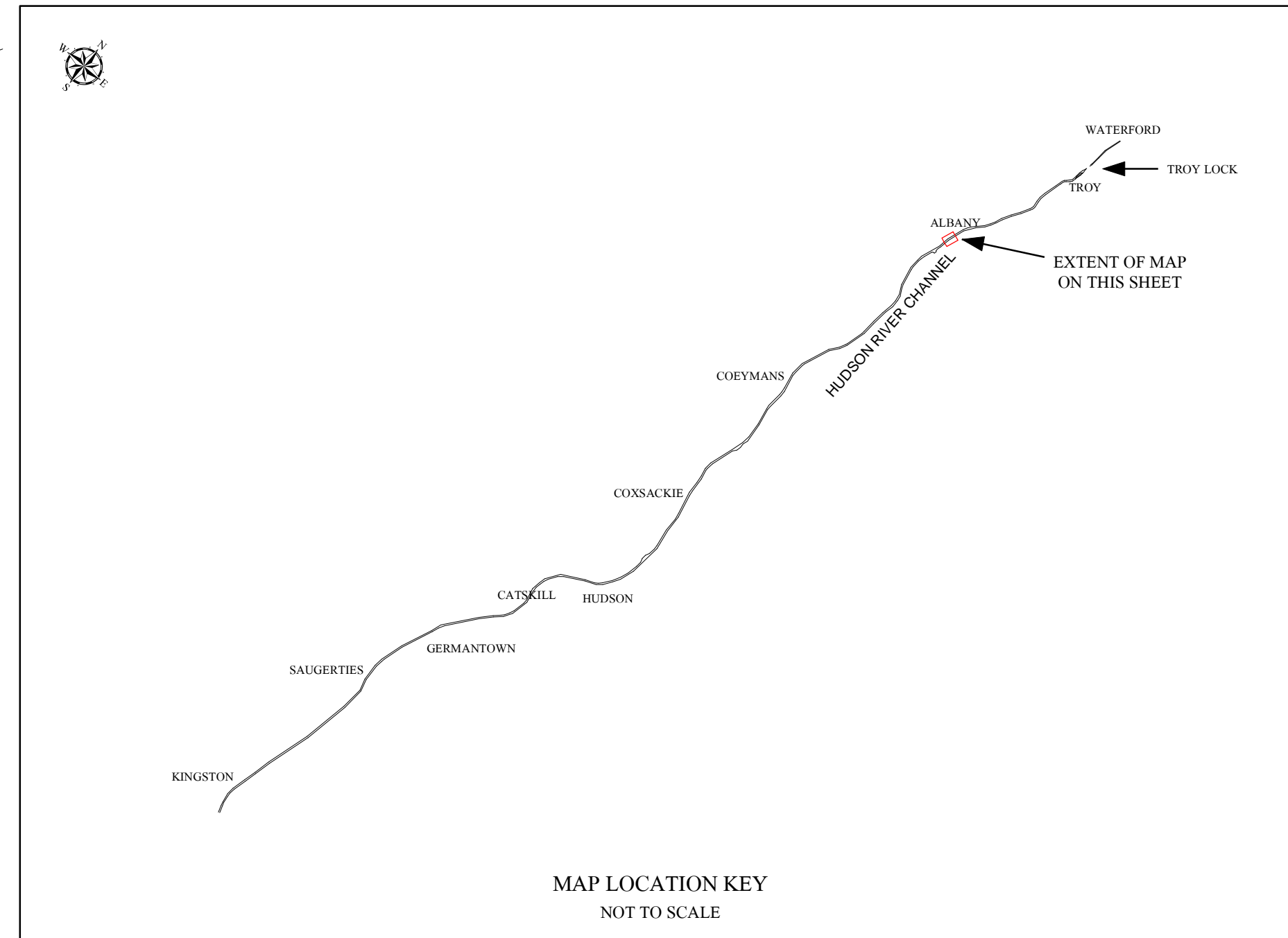
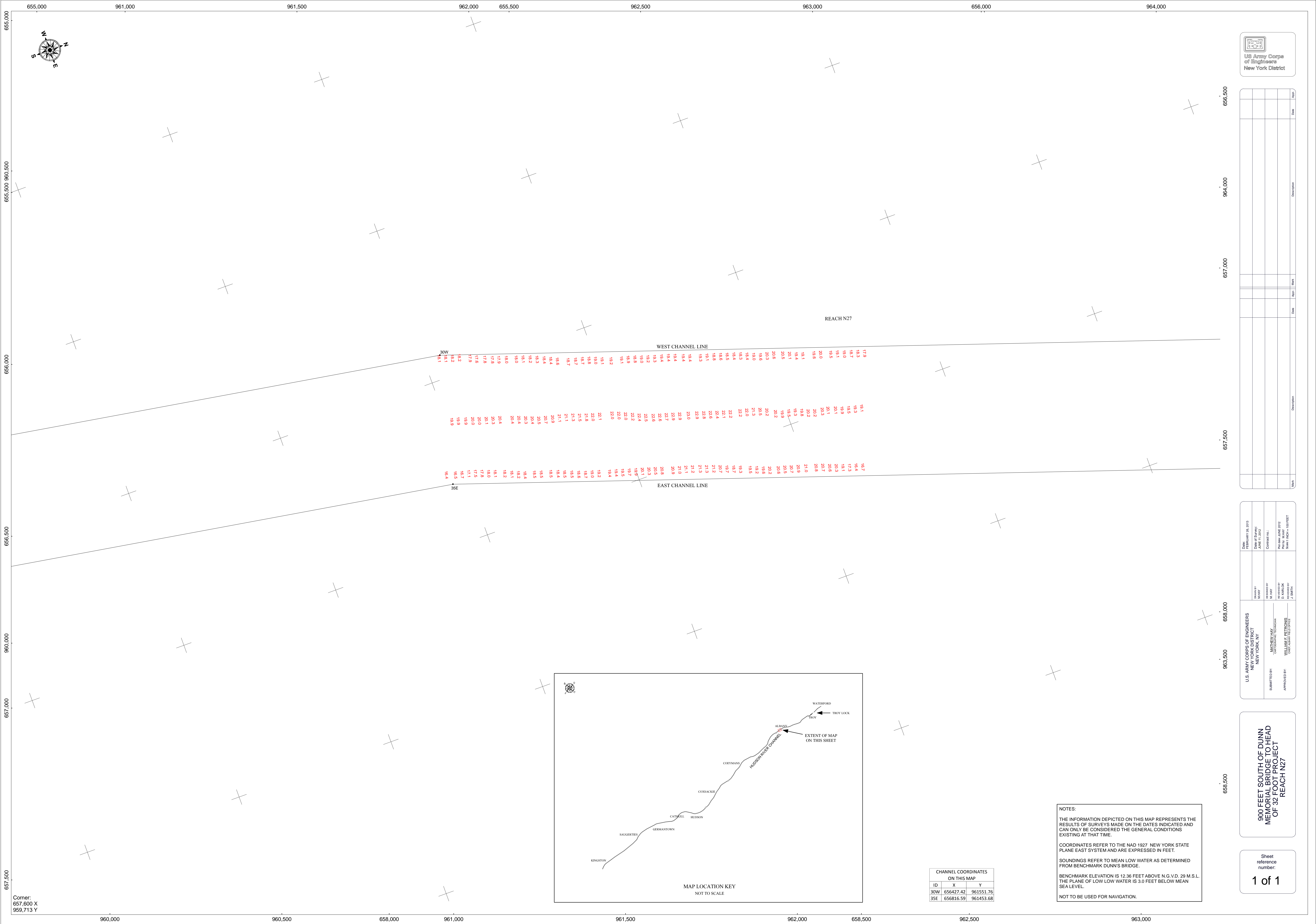


Table with columns: Date, Description, Mark, Date, Description, Mark. Contains revision history for the map.

U.S. Army Corps of Engineers New York District administrative table with columns: Name, Position, Date of Survey, Comment, and Date.

PATROON ISLAND BRIDGE TO ALBANY SWING BRIDGE, NY REACH N25

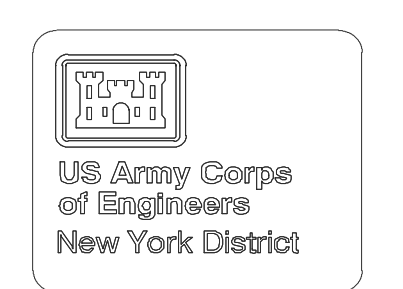
Sheet reference number: 2 of 2



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
30W	656427.42	961551.76
35E	656816.59	961453.68

NOTES:
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK DUNN'S BRIDGE.
 BENCHMARK ELEVATION IS 12.36 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW LOW WATER IS 3.0 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

Corner:
 657,600 X
 959,713 Y



Date	Description	Date	Description

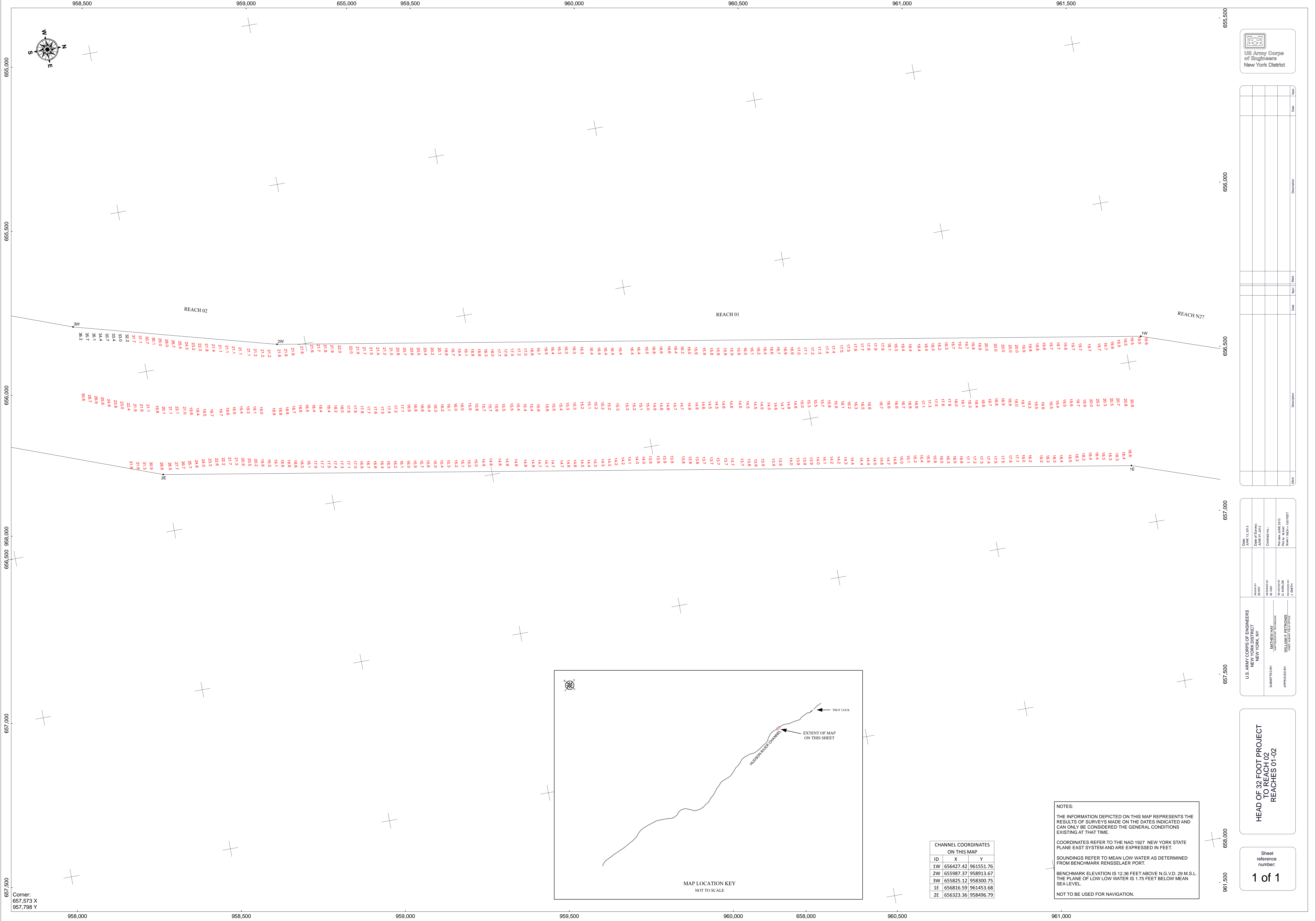
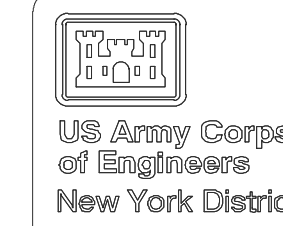
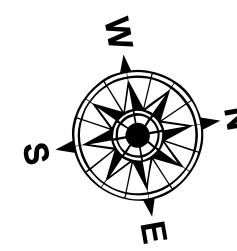
Drawn by: MUMF	Checked by: MUMF	Date of Survey: JUNE 01, 2022	Comment no.:
Submitted by: MUMF	Approved by: MUMF	Scale: AS SHOWN	Sheet (IND) - 10' FEET

U.S. ARMY CORPS OF ENGINEERS
 NEW YORK DISTRICT
 NEW YORK, NY

SUBMITTED BY: MUMF
 APPROVED BY: MUMF

900 FEET SOUTH OF DUNN
 MEMORIAL BRIDGE TO HEAD
 OF 32 FOOT PROJECT
 REACH N27

Sheet
 reference
 number:
1 of 1

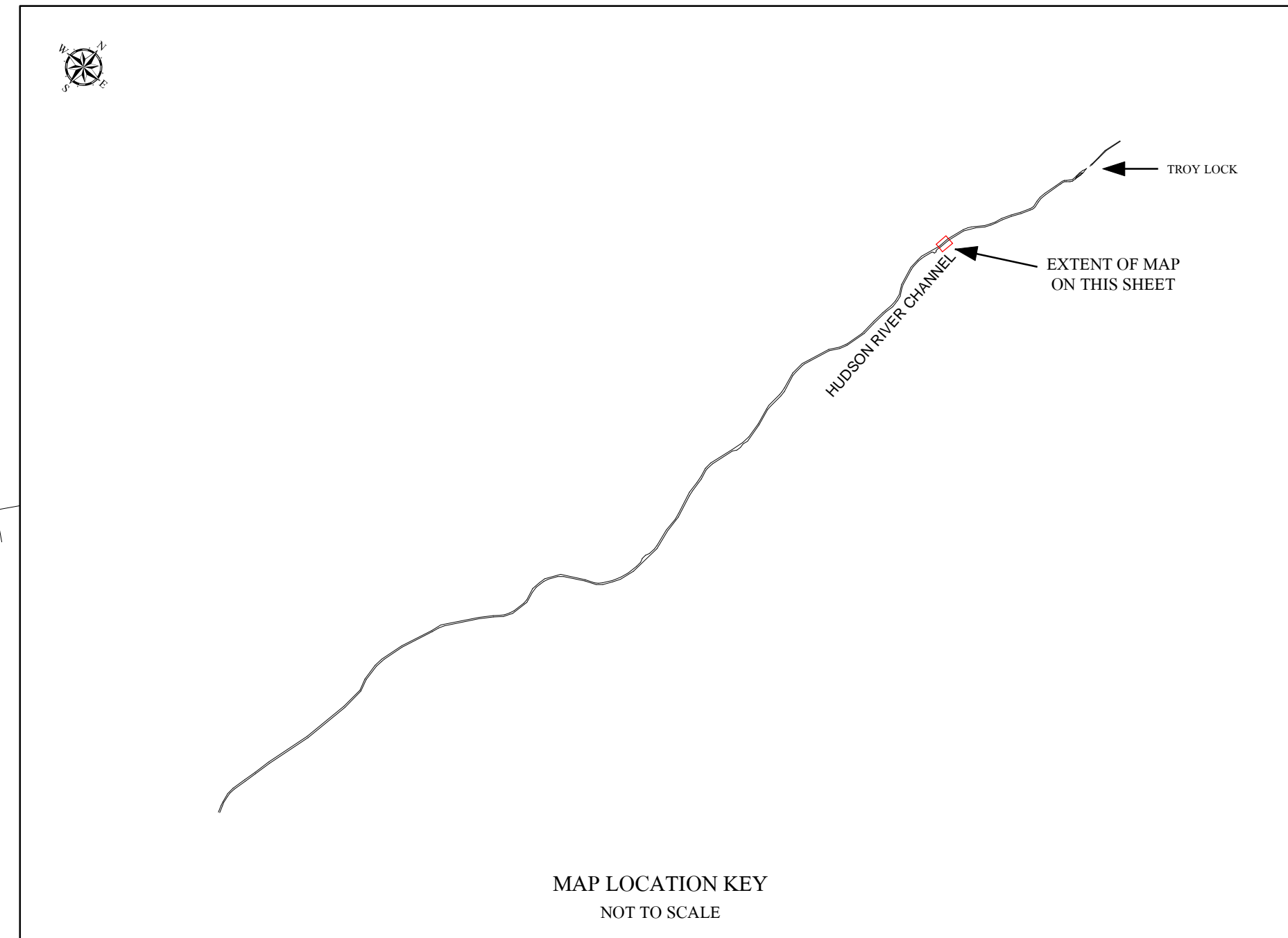


ID	Description	Date	Mark	Mark	Description	Date	Mark	Mark

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE OF SURVEY JUNE 01, 2013	DATE OF BUREAU JUNE 01, 2013	COMMITTEE NO.
SUBMITTED BY MATTHEW LAY CORPORATION, TROY, NY	APPROVED BY WILLIAM J. PETTONS CHIEF, TROY DISTRICT	DATE OF BUREAU JUNE 01, 2013	COMMITTEE NO.

**HEAD OF 32 FOOT PROJECT
TO REACH 02
REACHES 01-02**

Sheet
reference
number:
1 of 1



ID	X	Y
1W	656427.42	961551.76
2W	655987.37	958913.67
3W	655825.12	958300.75
1E	656816.59	961453.68
2E	656323.36	958496.79

NOTES:

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

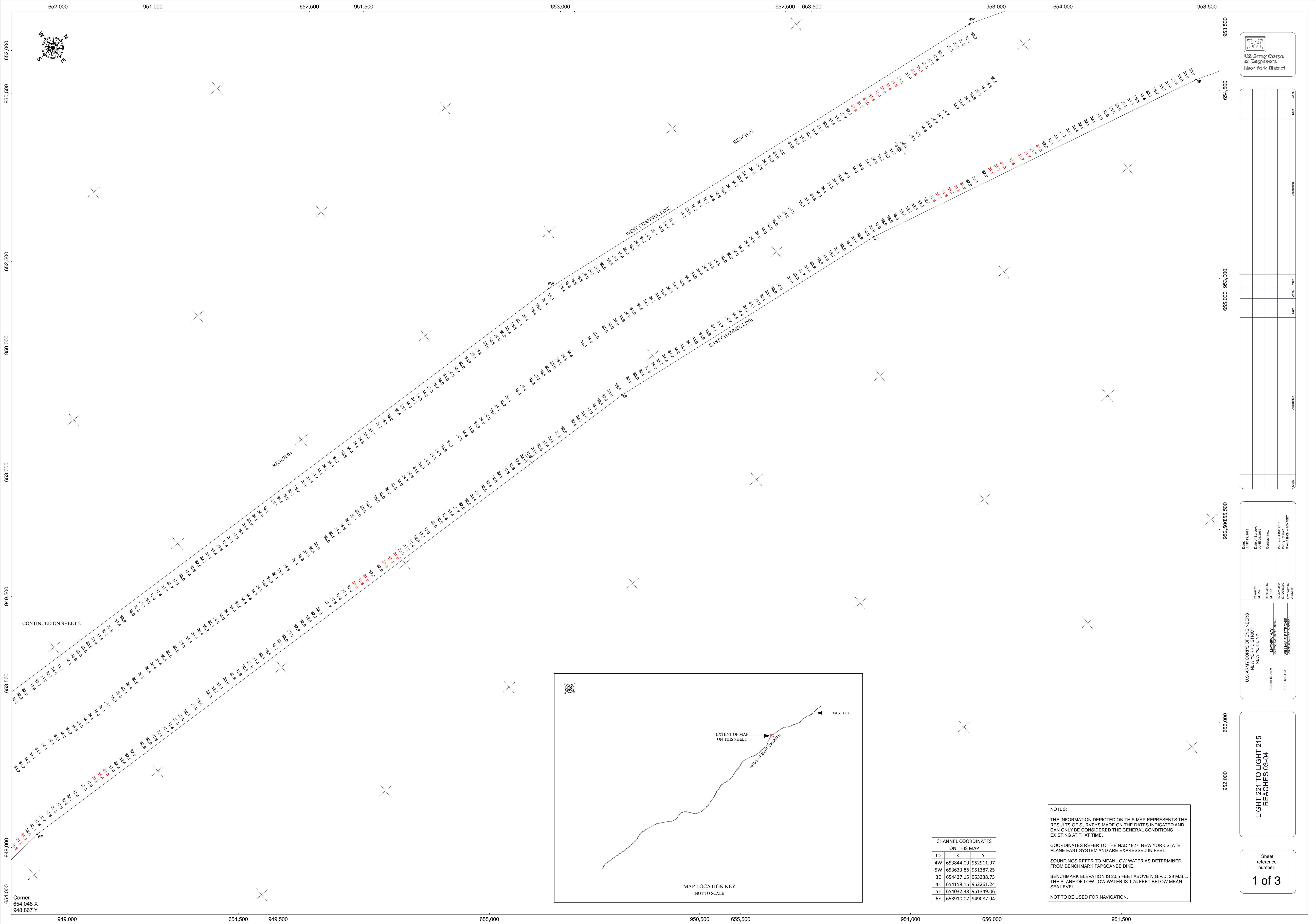
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.

SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK RENSSELAER PORT.

BENCHMARK ELEVATION IS 12.36 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.

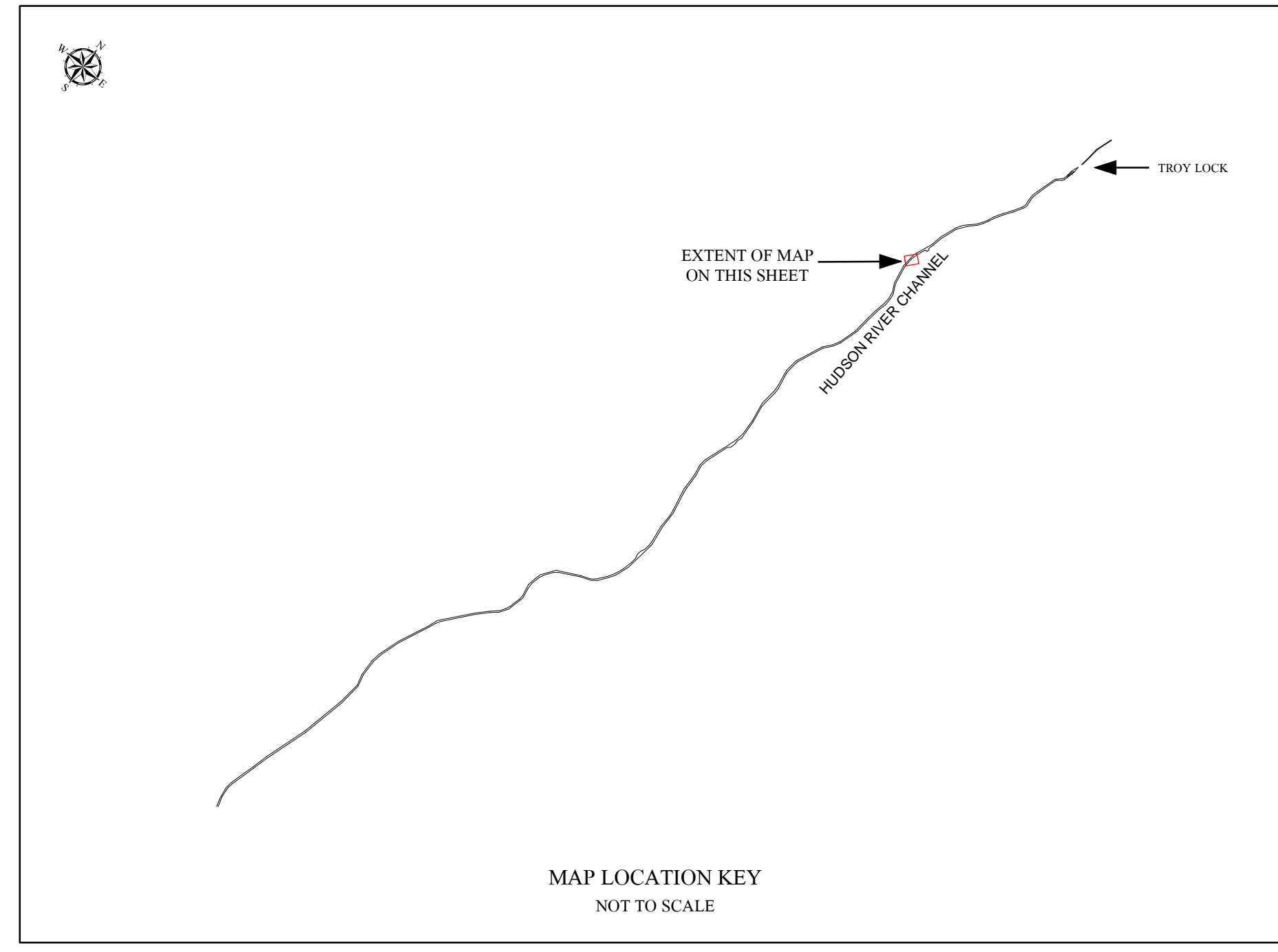
NOT TO BE USED FOR NAVIGATION.

Corner:
657,573 X
957,798 Y



CONTINUED ON SHEET 2

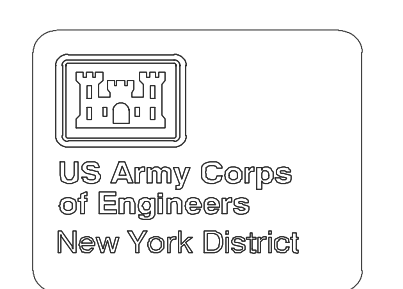
Corner:
654,048 X
948,867 Y



MAP LOCATION KEY
NOT TO SCALE

CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
4W	653844.09	952911.97
5W	653633.86	951387.25
3E	654427.15	953338.73
4E	654158.15	952261.24
5E	654032.38	951349.06
6E	653910.07	949087.94

NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK PAPSCANEE DIKE.
BENCHMARK ELEVATION IS 2.55 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.

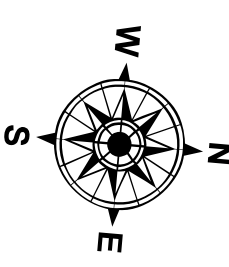


Date	Description	Date	Description

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: JUN 13, 2013 DRAWN BY: MUMBY CHECKED BY: MUMBY APPROVED BY: MUMBY
PROJECT: LIGHT 221 TO LIGHT 215 REACHES 03-04	DATE: JUN 08, 2012 DRAWN BY: MUMBY CHECKED BY: MUMBY APPROVED BY: MUMBY

LIGHT 221 TO LIGHT 215
REACHES 03-04

Sheet reference number:
1 of 3



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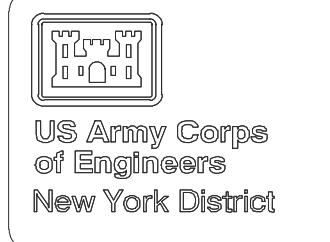
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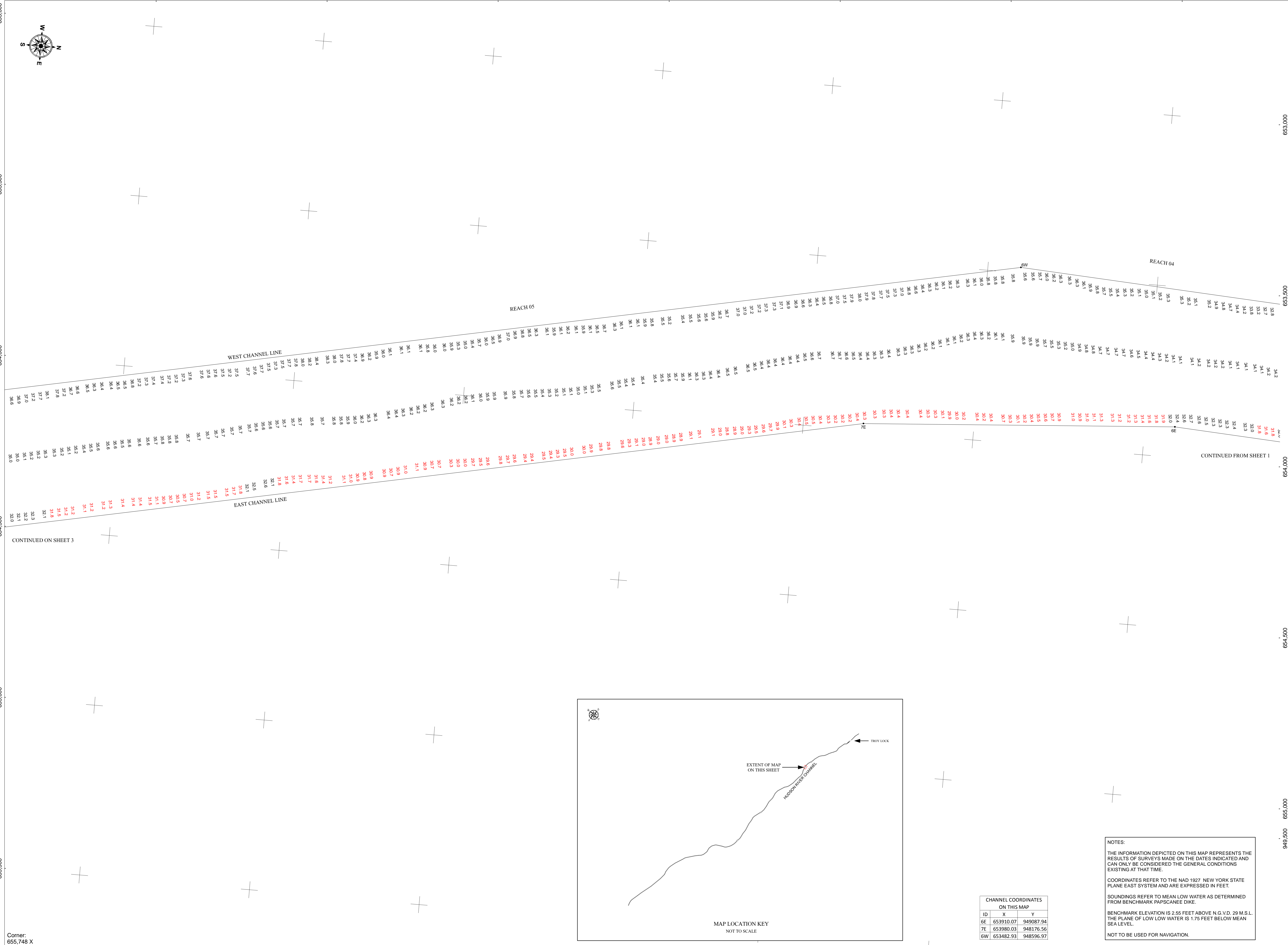
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655,000

655,500



Date	Description	Year	Date	Description	Year



654,000

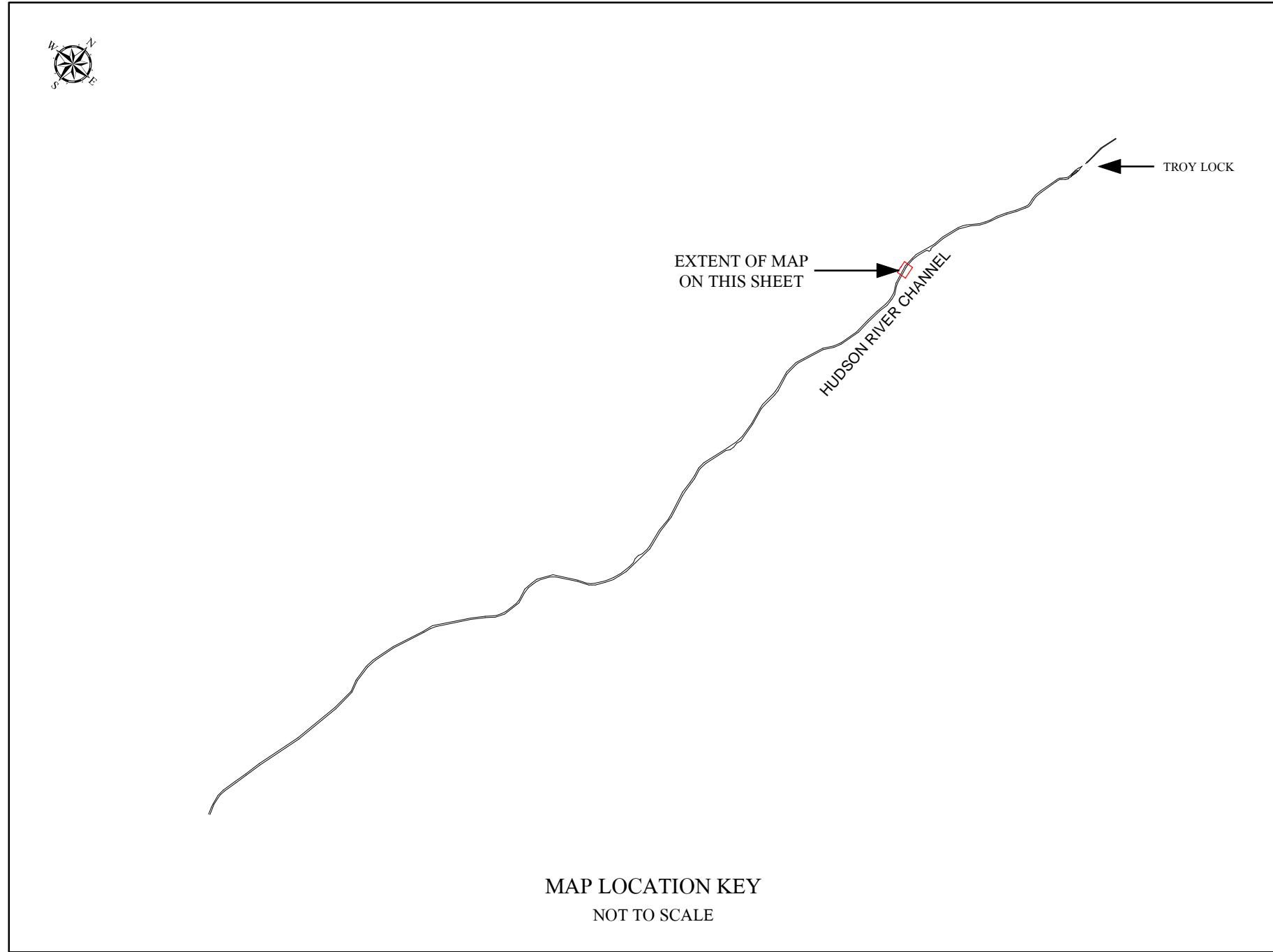
654,500

655,000

949,500

Corner:
655,748 X
945,801 Y

946,000 946,500 947,000 947,500 948,000 948,500 949,000 949,500



ID	X	Y
6E	653910.07	949087.94
7E	653980.03	948176.56
6W	653482.93	948596.97

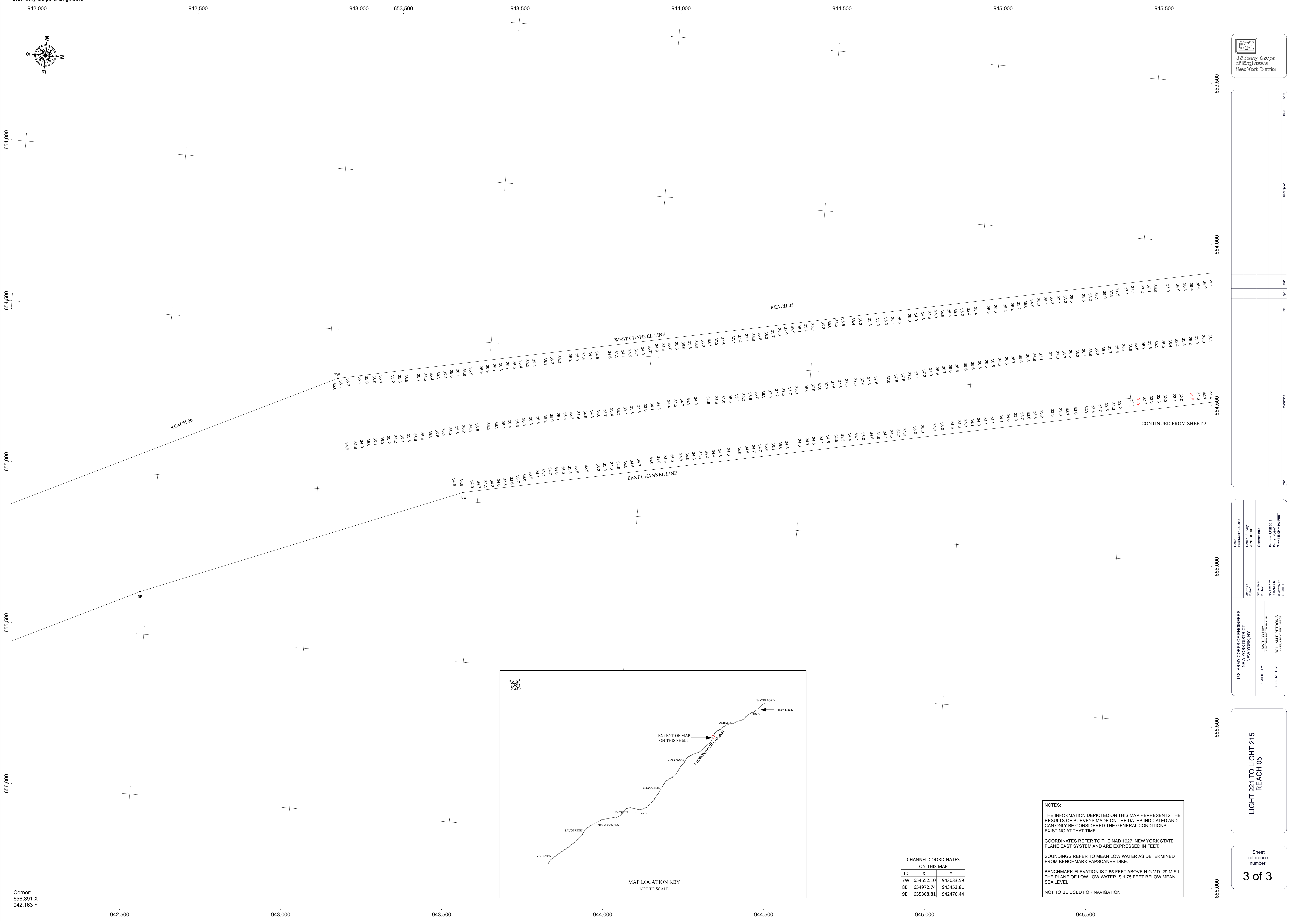
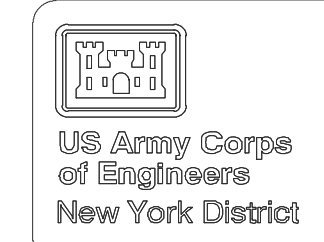
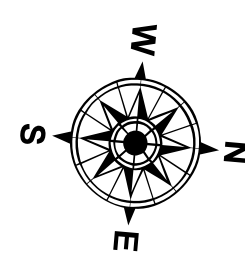
NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK PAPSCANEE DIKE.
BENCHMARK ELEVATION IS 2.55 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.

Date	Submitted by	Reviewed by	Approved by
JUN 13, 2013	DAVID BUNNEY	MATTHEW GAY	WILLIAM A. BEYBLOM
JUN 08, 2012	DAVID BUNNEY	MATTHEW GAY	WILLIAM A. BEYBLOM

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NY

LIGHT 221 TO LIGHT 215
REACHES 04-05

Sheet reference number:
2 of 3

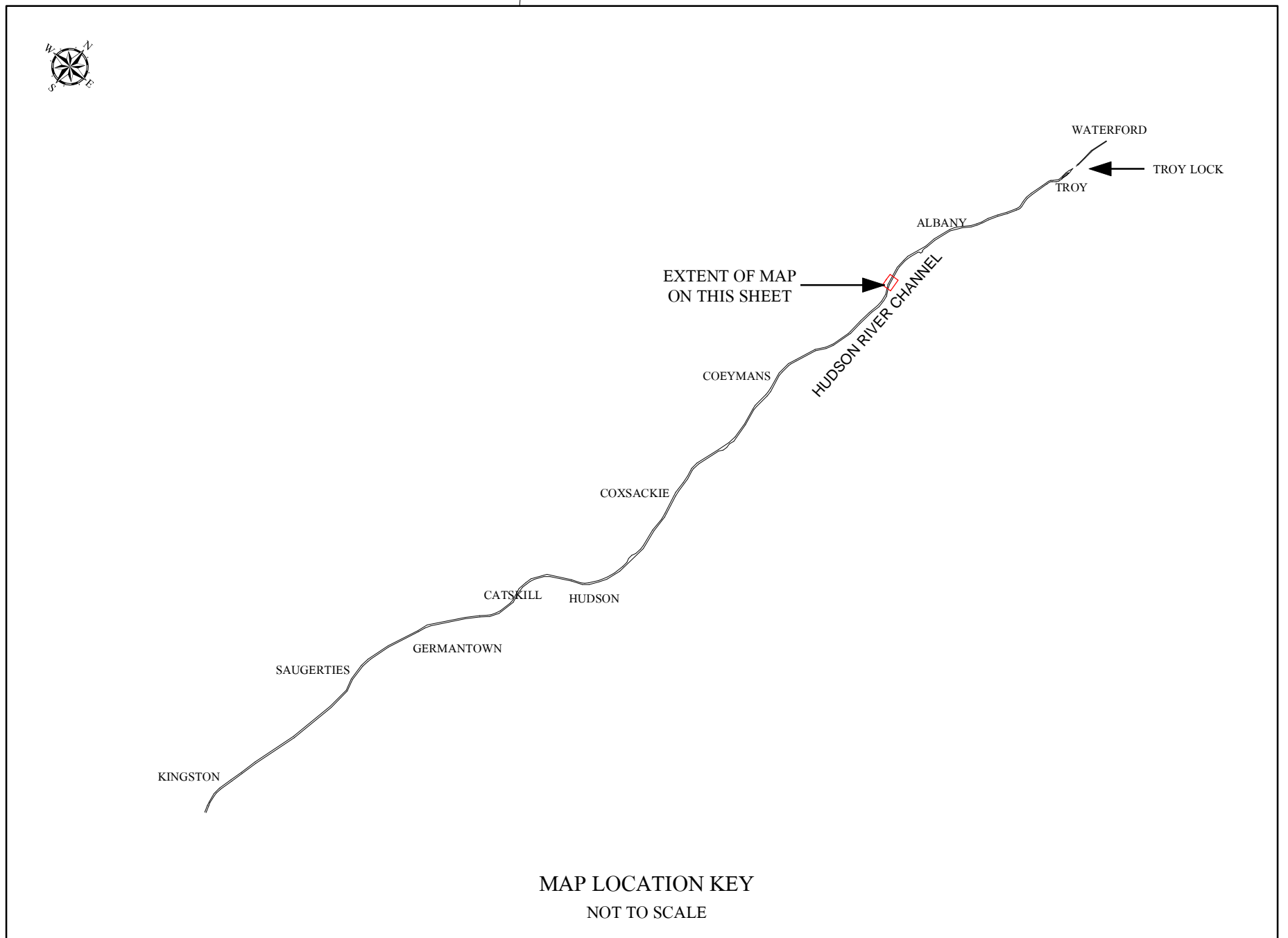


Date	Description	Drawn	Checked	Scale

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: FEBRUARY 23, 2012 DRAWN BY: MUMBY CHECKED BY: MUMBY	CONTRACT NO.: DATE OF SURVEY: PROJECT NO.:	APPROVED BY: DATE OF APPROVAL: PROJECT NO.:
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**LIGHT 221 TO LIGHT 215
REACH 05**

Sheet
reference
number:
3 of 3



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
7W	654652.10	943033.59
8E	654972.74	943452.81
9E	655368.81	942476.44

NOTES:
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COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK PAPSCANEE DIKE.
BENCHMARK ELEVATION IS 2.55 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF LOW LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.

Corner:
656,391 X
942,163 Y

942,500 943,000 943,500 944,000 944,500 945,000 945,500

655,500

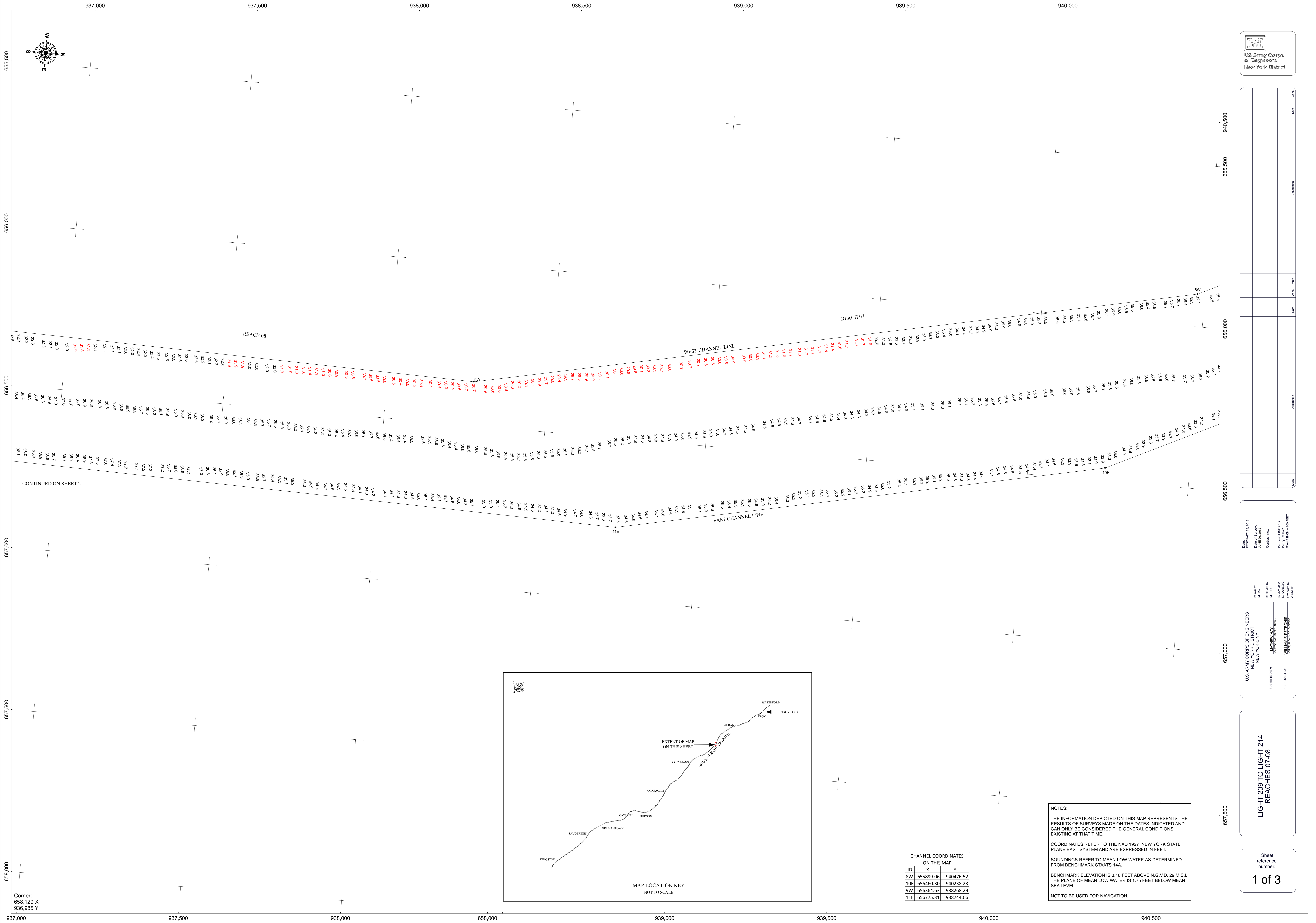
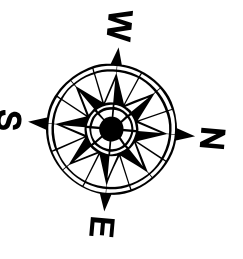
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654,000

654,500

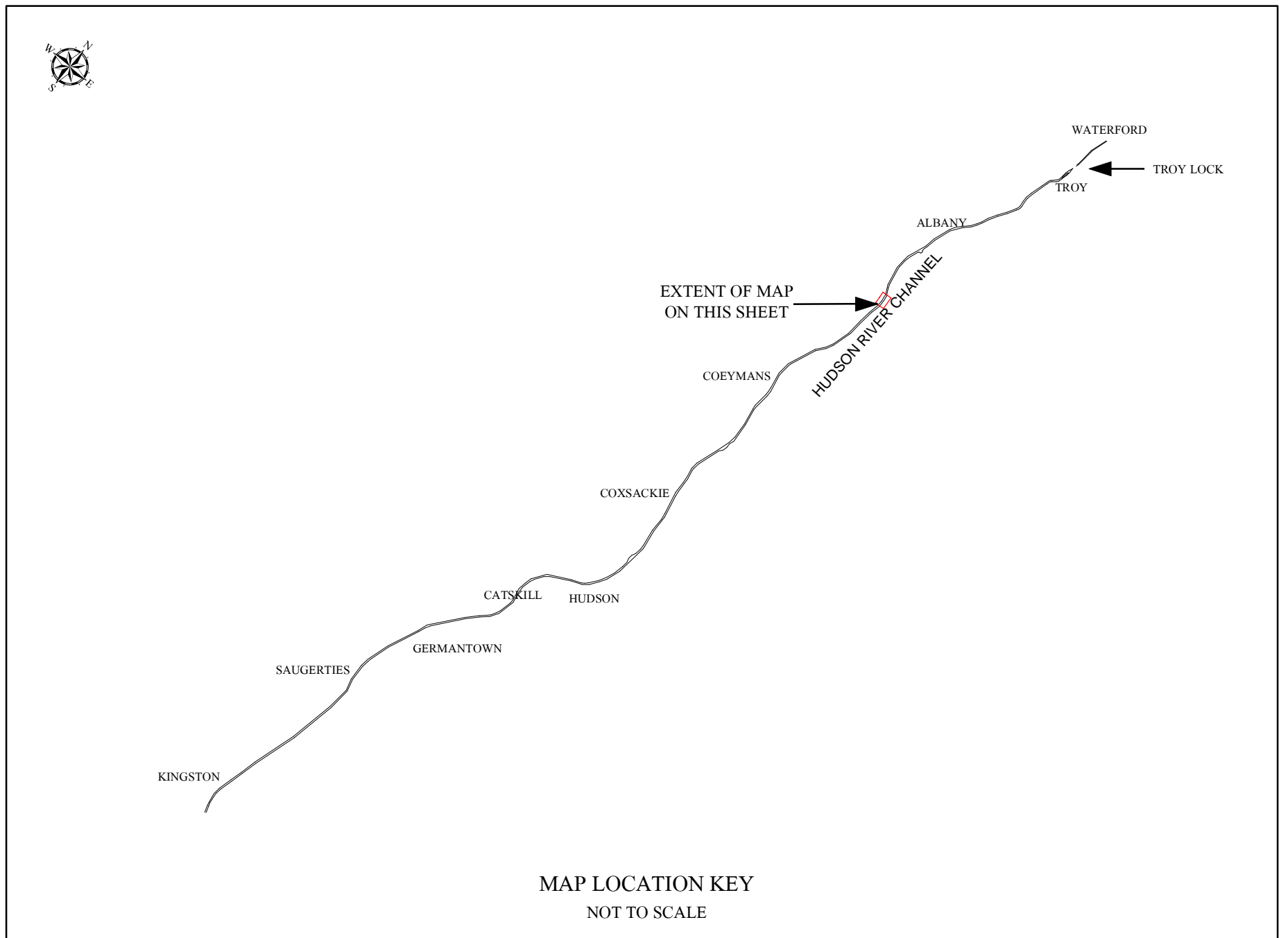
654,000

653,500



CONTINUED ON SHEET 2

Corner:
658,129 X
936,985 Y



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
8W	655899.06	940476.52
10E	656460.30	940238.23
9W	656364.63	938268.29
11E	656775.31	938744.06

NOTES:
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK STAATS 14A.
 BENCHMARK ELEVATION IS 3.16 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

Date	Description	Date	Description

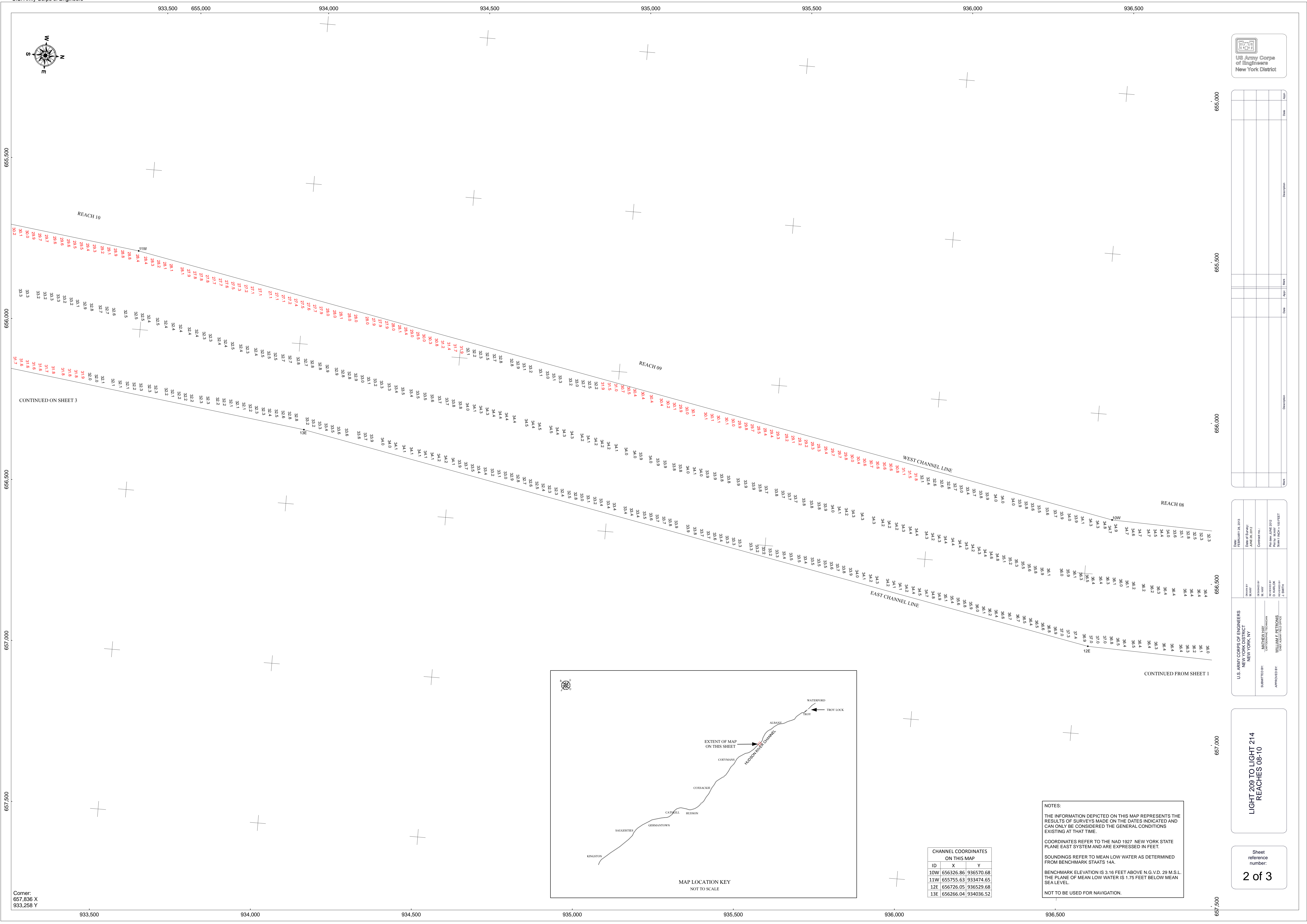
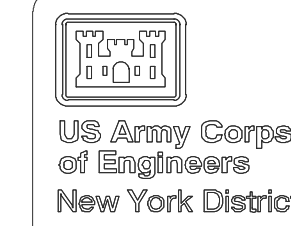
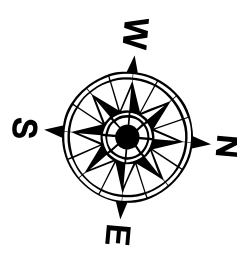
DATE: FEBRUARY 23, 2012	DATE OF SURVEY: JUNE 26, 2012	CONTRACT NO.:	PROJECT NO.:
DRAWN BY: MUMBY	DESIGNED BY: MUMBY	PROJECT NO.:	PROJECT NO.:
CHECKED BY: MUMBY	APPROVED BY: MUMBY	PROJECT NO.:	PROJECT NO.:
SCALE: HORIZONTAL = 1" = 100 FEET	SCALE: VERTICAL = 1" = 10 FEET	PROJECT NO.:	PROJECT NO.:

U.S. ARMY CORPS OF ENGINEERS
 NEW YORK DISTRICT
 NEW YORK, NY

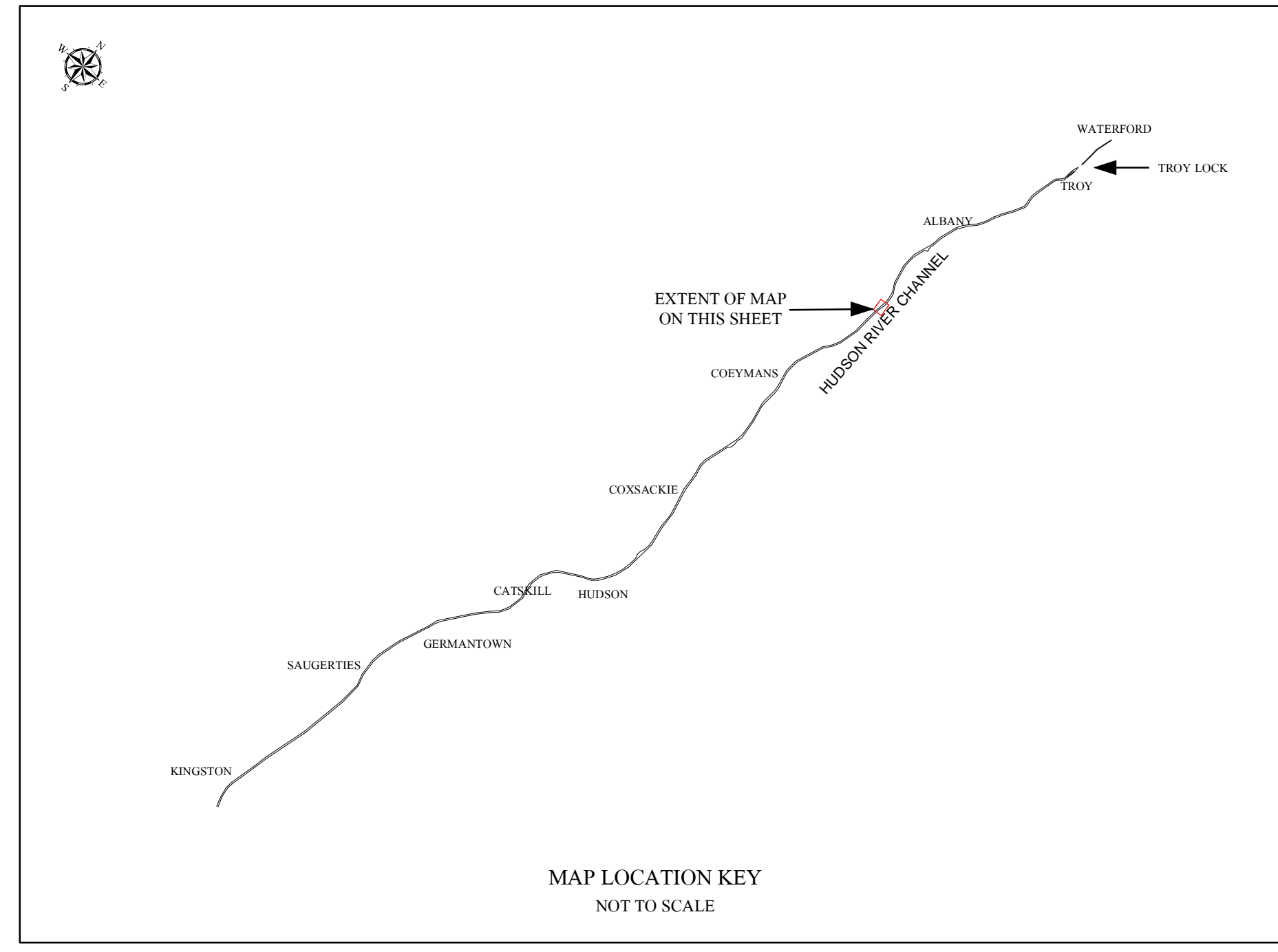
SUBMITTED BY: MATTHEW MUMBY
 APPROVED BY: WILLIAM B. BRIDGES

**LIGHT 209 TO LIGHT 214
 REACHES 07-08**

Sheet
 reference
 number:
1 of 3



Corner:
657,836 X
933,258 Y



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
10W	656326.86	936570.68
11W	655755.63	933474.65
12E	656726.05	936529.68
13E	656266.04	934036.52

NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK STAATS 14A.
BENCHMARK ELEVATION IS 3.16 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.

Date	Description	Drawn	Checked	Scale

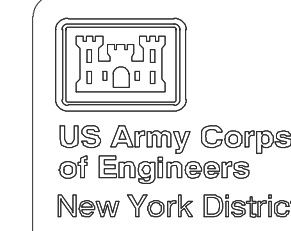
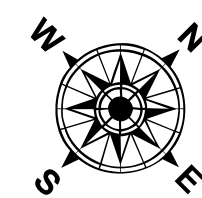
Drawn by: MUMF	Checked by: MUMF
Date of Survey: FEBRUARY 23, 2013	Date of Plot: JUNE 26, 2012
Drawn by: MUMF	Checked by: MUMF
Date of Survey: FEBRUARY 23, 2013	Date of Plot: JUNE 26, 2012
Drawn by: MUMF	Checked by: MUMF
Date of Survey: FEBRUARY 23, 2013	Date of Plot: JUNE 26, 2012

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NY

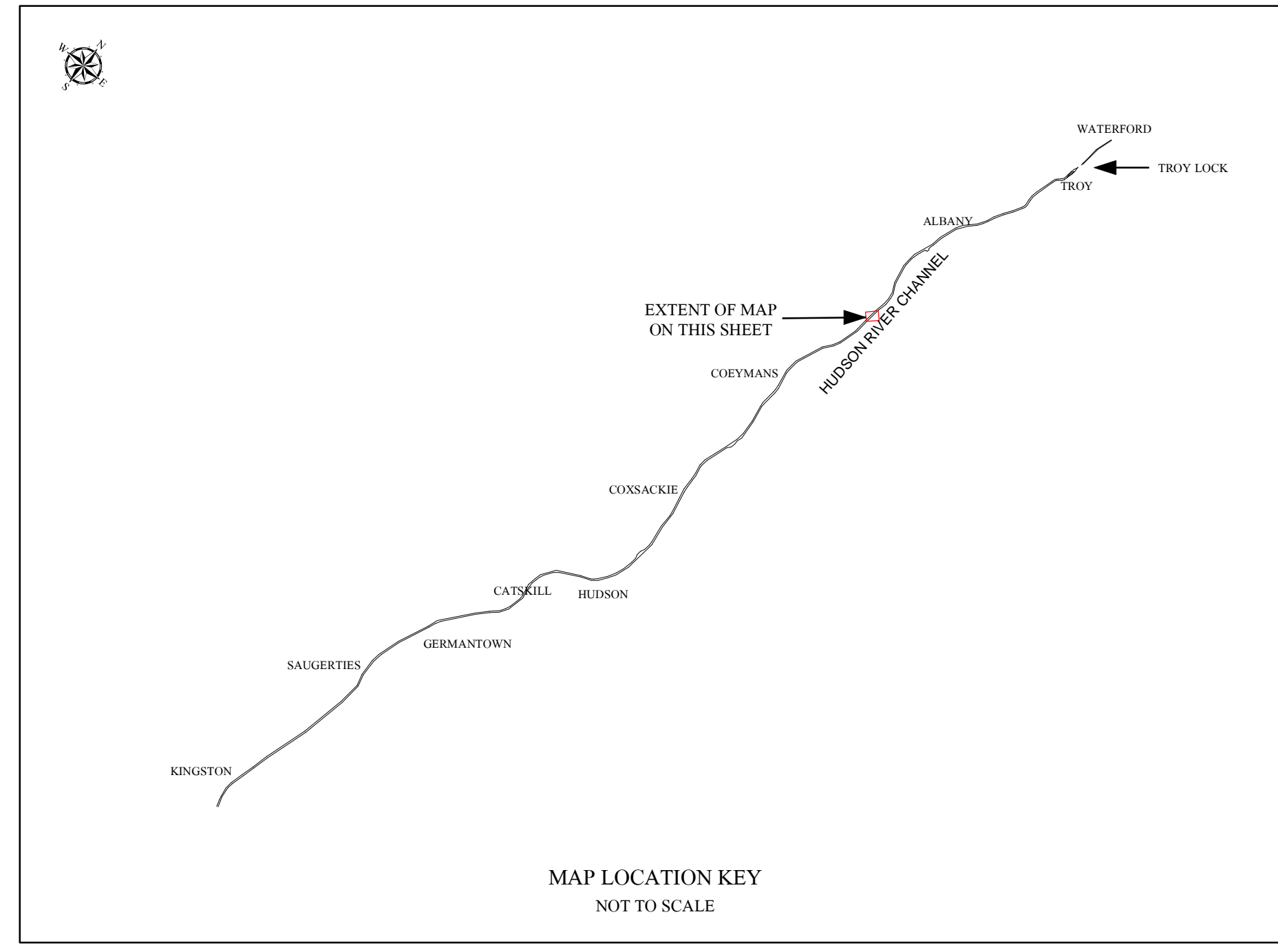
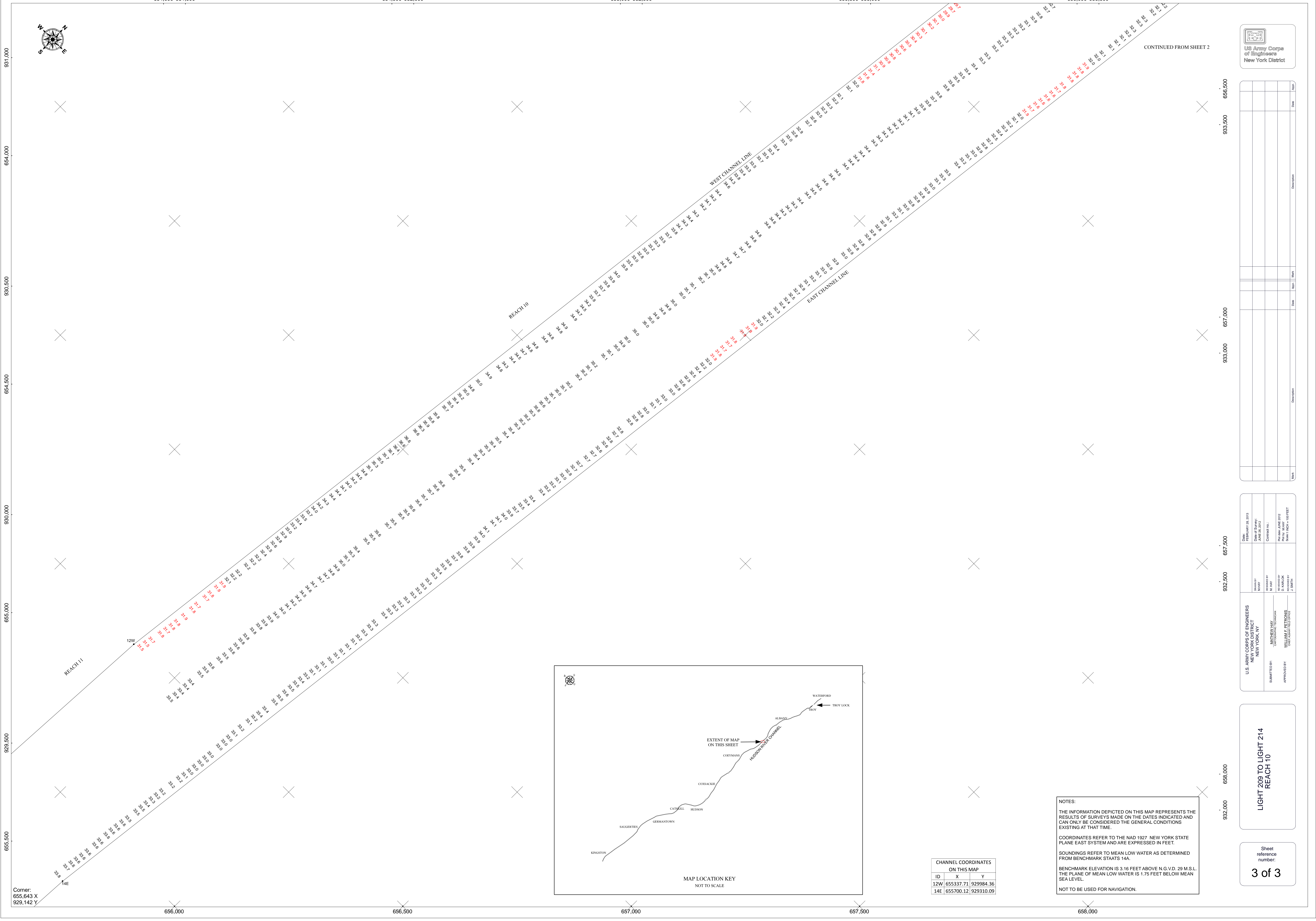
APPROVED BY: WILLIAM F. BERTONIS
CHIEF, SURVEY SECTION

LIGHT 209 TO LIGHT 214
REACHES 08-10

Sheet reference number:
2 of 3



CONTINUED FROM SHEET 2



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
12W	655337.71	929984.36
14E	655700.12	929310.09

NOTES:

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

COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.

SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK STAATS 14A.

BENCHMARK ELEVATION IS 3.16 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.76 FEET BELOW MEAN SEA LEVEL.

NOT TO BE USED FOR NAVIGATION.

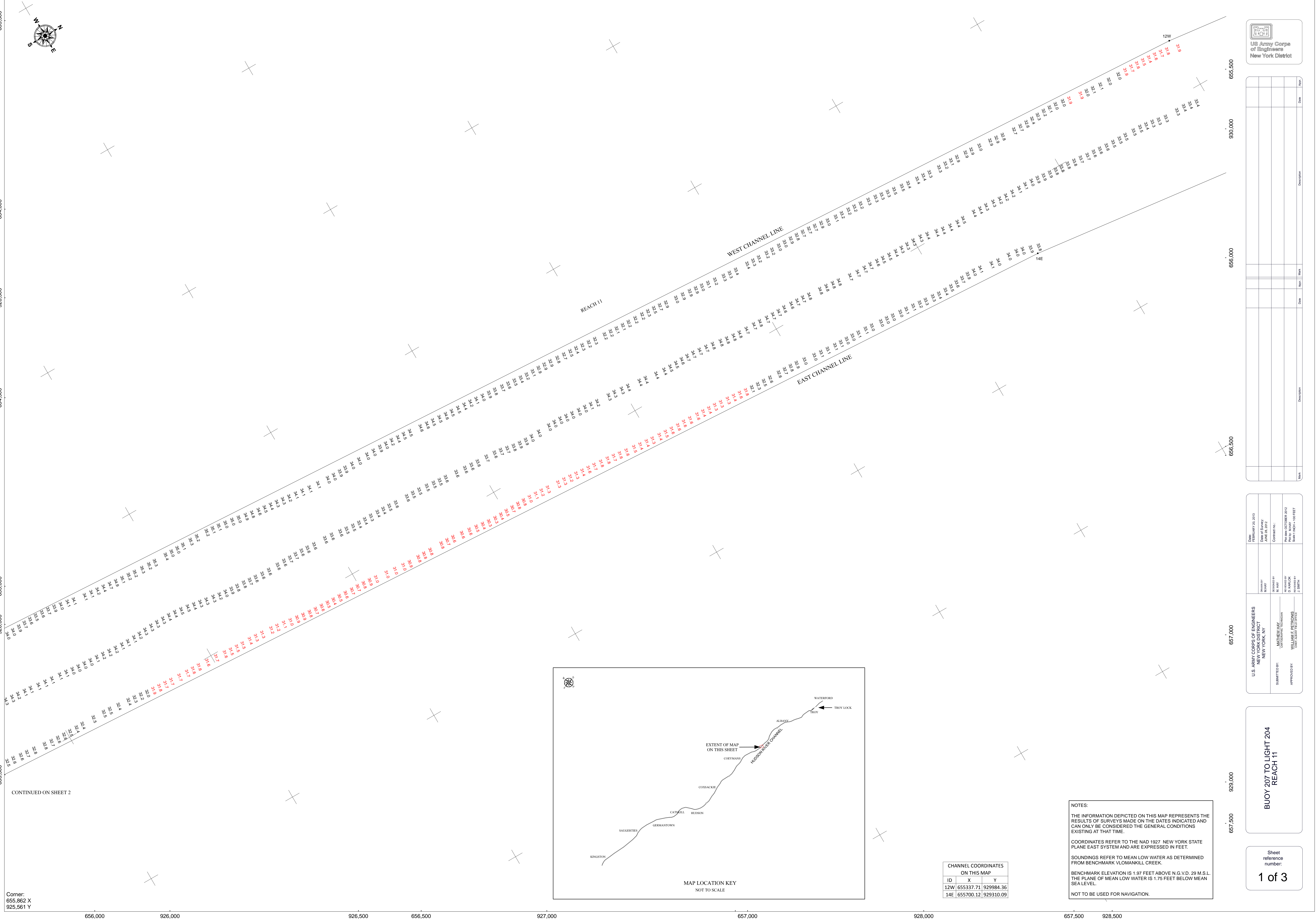
Description	Date	Drawn	Check	Scale	Notes

DATE: FEBRUARY 23, 2013	DATE OF SURVEY: JUNE 26, 2012	CONTRACT NO.:
DRAWN BY: MARY	DESIGNED BY: BLAKE	PROJECT NO.:
CHECKED BY: D. KNECK	APPROVED BY: WILLIAM L. BRITTONS	SHEET (INCH = 10 FEET):
DATE: 11/20/12	DATE: 11/20/12	DATE: 11/20/12

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NY

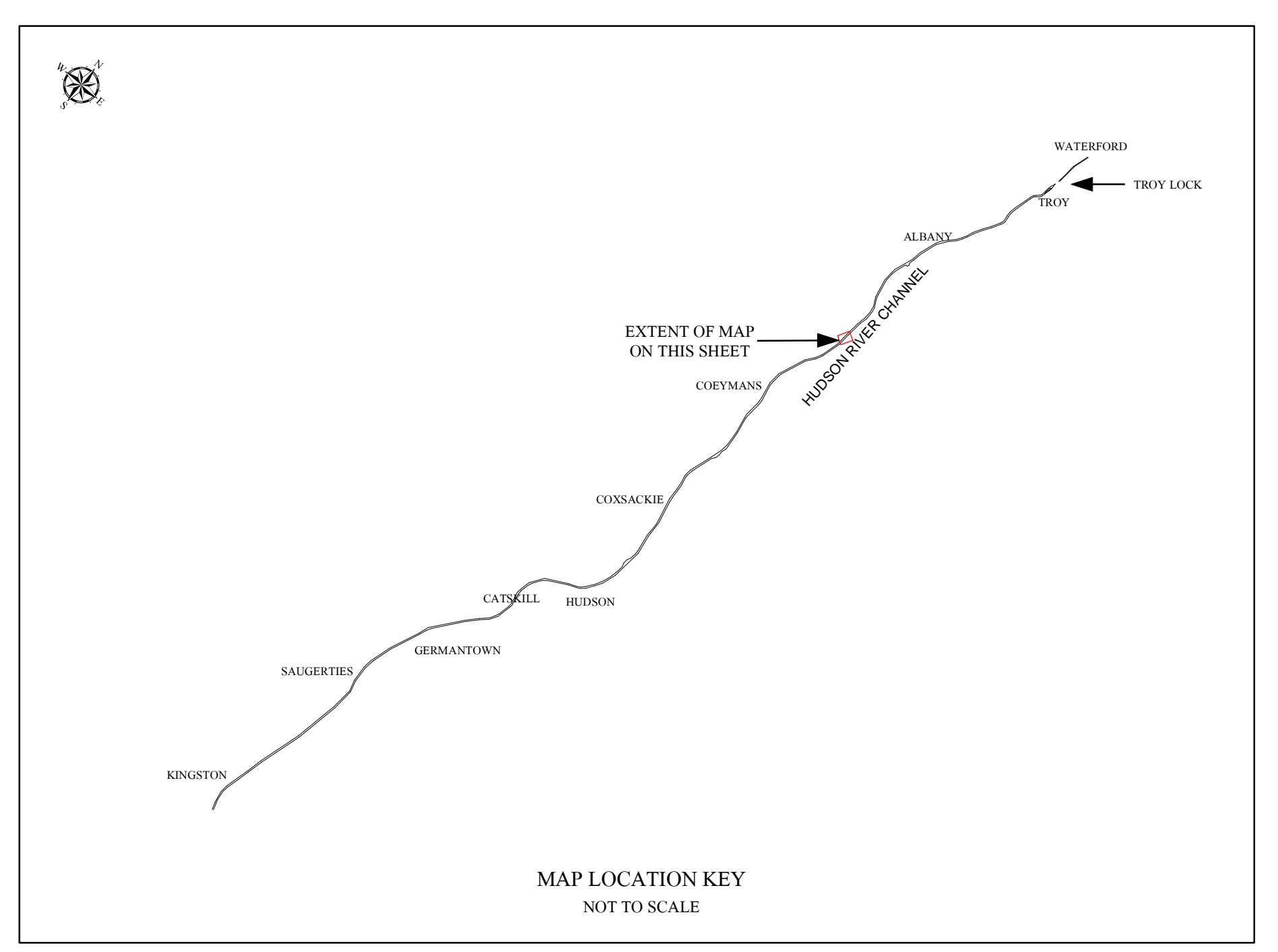
PROJECT: LIGHT 209 TO LIGHT 214
REACH 10

Sheet reference number:
3 of 3



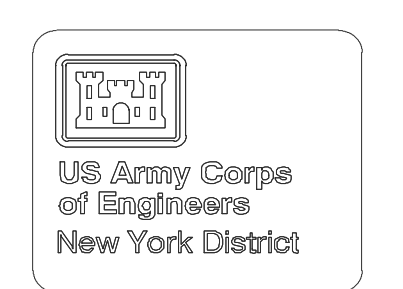
CONTINUED ON SHEET 2

Corner:
655,862 X
925,561 Y



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
12W	655337.71	929984.36
14E	655700.12	929310.09

NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK VLOMANKILL CREEK.
BENCHMARK ELEVATION IS 1.97 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.



Date	Description

Drawn by: MUMBY	Date of Survey: FEBRUARY 20, 2013
Reviewed by: MUMBY	Date of Survey: JUNE 28, 2012
Submitted by: MUMBY	Contract no.:
Approved by: MUMBY	Scale: 1"=2000'

BUOY 207 TO LIGHT 204
REACH 11

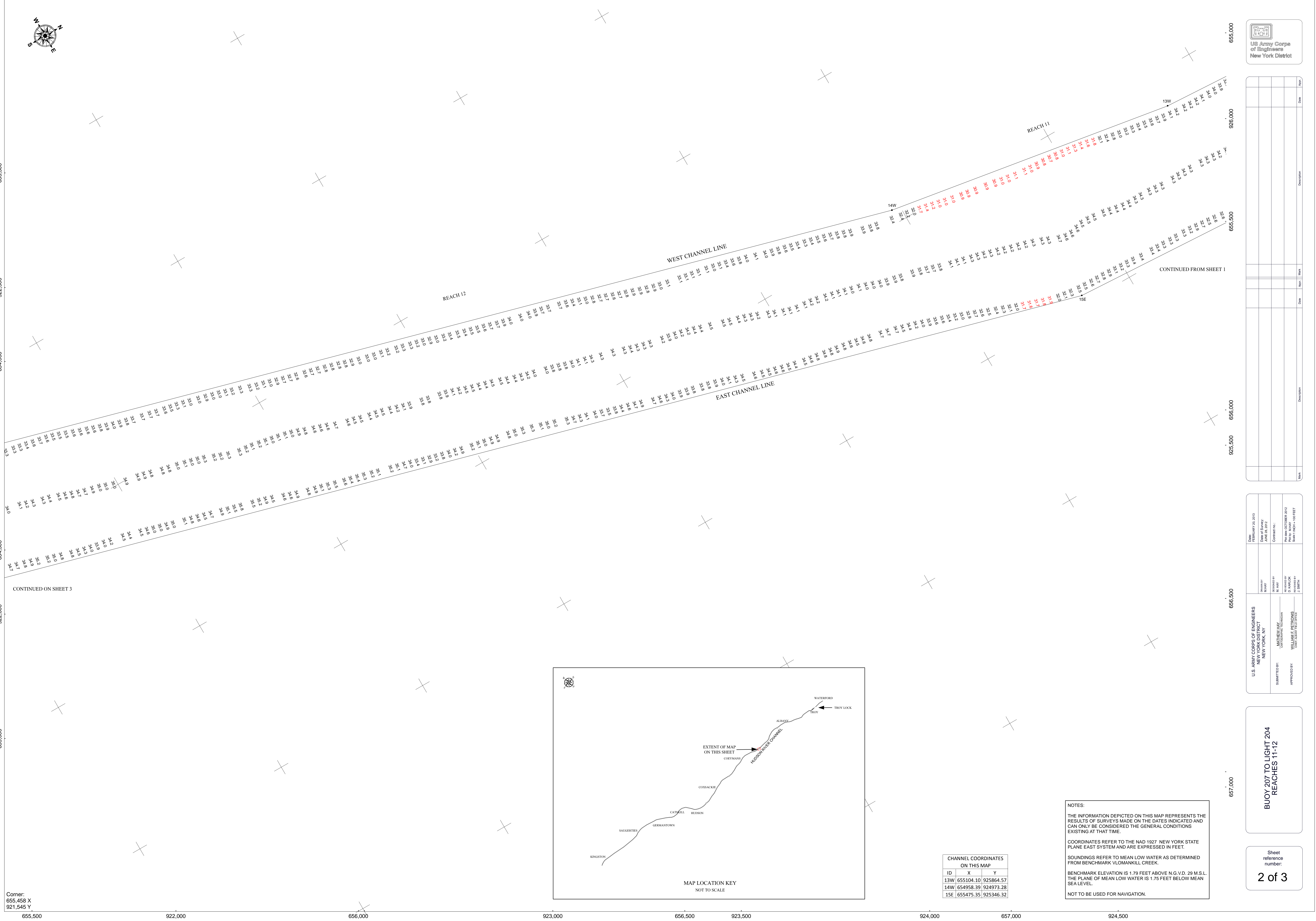
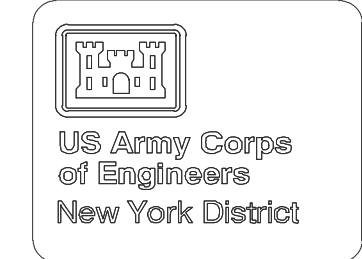
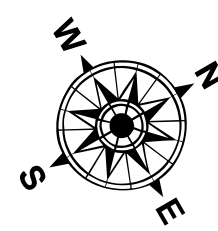
Sheet reference number:
1 of 3

657,000

925,000

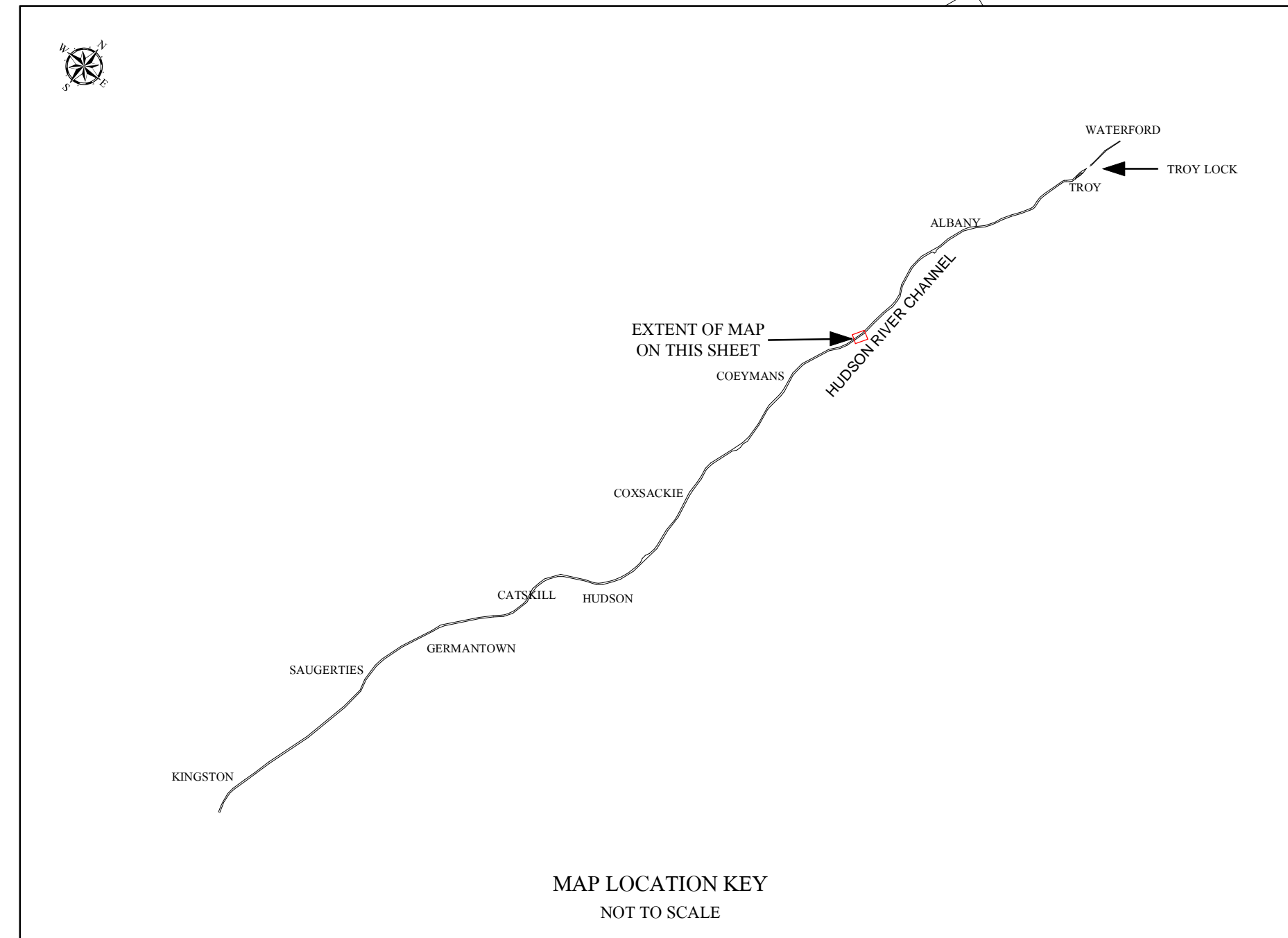
656,000

926,000



CONTINUED ON SHEET 3

CONTINUED FROM SHEET 1



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
13W	655104.10	925864.57
14W	654958.39	924973.28
15E	655475.35	925346.32

NOTES:
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK VLOMANKILL CREEK.
 BENCHMARK ELEVATION IS 1.79 FEET ABOVE N.G.V. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.76 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

Corner:
 655,458 X
 921,545 Y

ID	Description	Date	Scale

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	Drawn: FEBRUARY 03, 2013
Checked by: MURPHY	Date of Survey: JUNE 08, 2012
Submitted by: MATTHEW J. WYATT CORPORATE SURVEY SECTION	Contract no.:
Approved by: WILLIAM F. BRITTONS CHIEF SURVEY SECTION	Survey no.:
	Scale (HORIZ): 1"=100 FEET

**BUOY 207 TO LIGHT 204
 REACHES 11-12**

Sheet
 reference
 number:
2 of 3

652.000 920.000 920.500 652.500 921.000 921.500 653.000 922.000 653.500 922.500

652.000 919.500

652.500

919.000

653.000

918.500

653.500

918.000

654.000

Corner:
654,256 X
918,168 Y

918,500 654,500

919,000

655,000

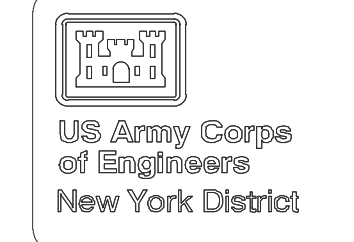
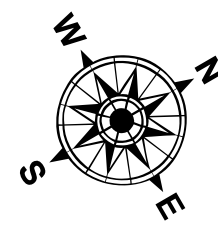
920,000

655,500

920,500

921,000

656,000

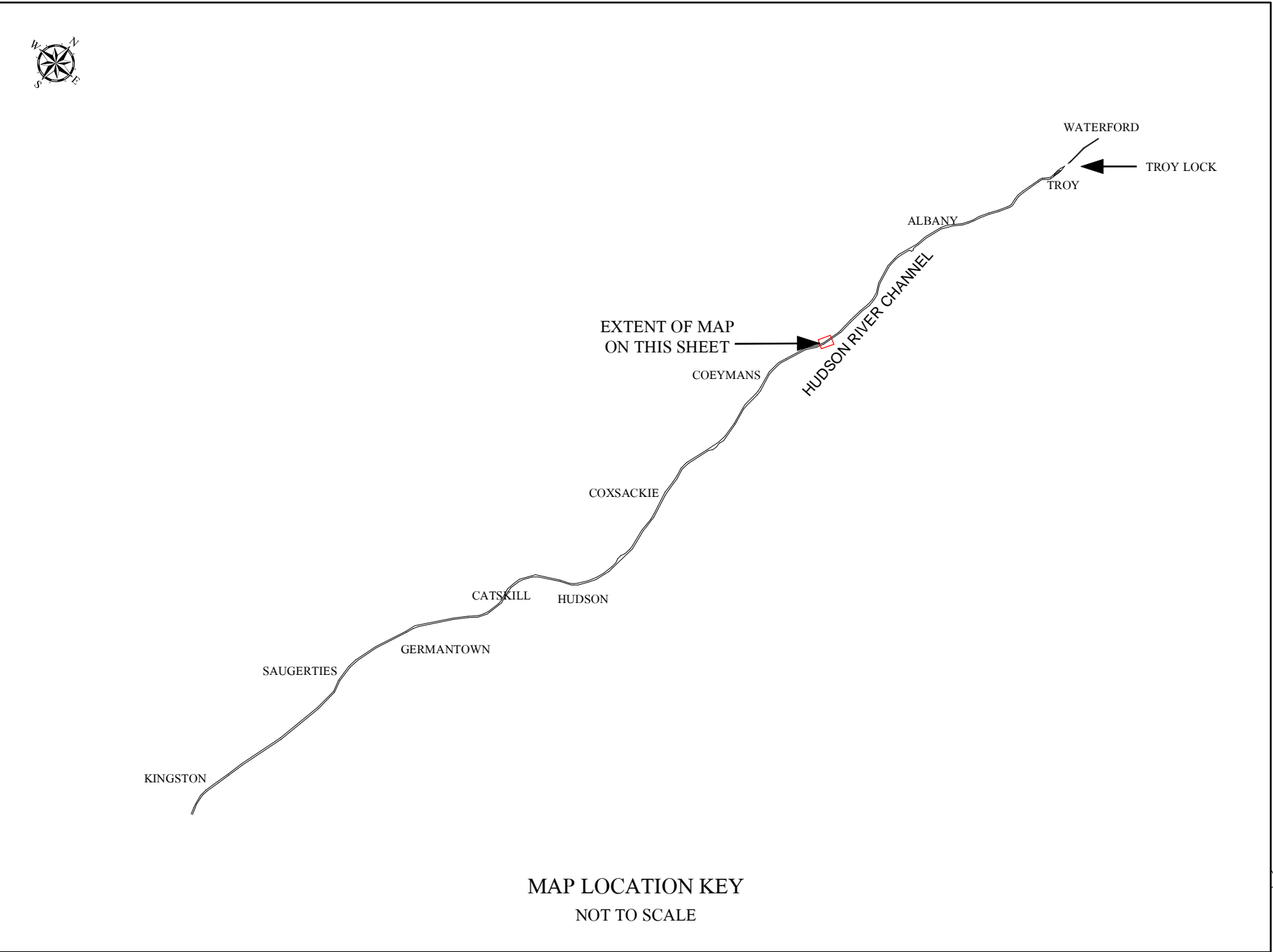
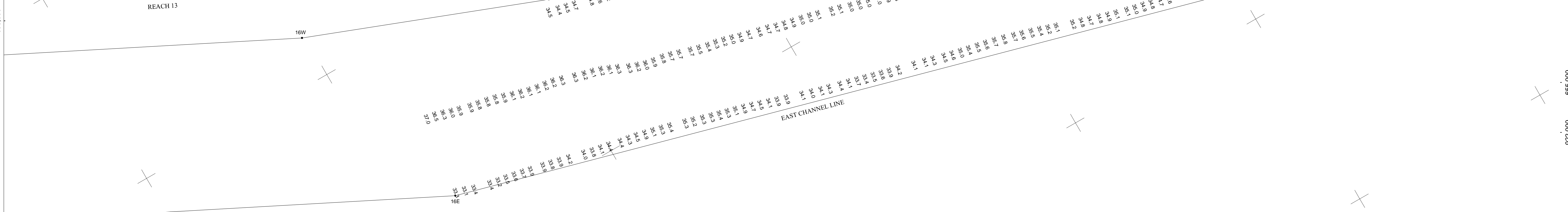


Description	Date	Scale	Unit

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	Drawn: FEBRUARY 22, 2013 Checked by: JUNE 08, 2012 Contract no.:
Submitted by: MAY 17, 2013 Approved by: D. MULLER	Submitted by: MAY 17, 2013 Approved by: D. MULLER
Submitted by: MAY 17, 2013 Approved by: D. MULLER	Submitted by: MAY 17, 2013 Approved by: D. MULLER
Submitted by: MAY 17, 2013 Approved by: D. MULLER	Submitted by: MAY 17, 2013 Approved by: D. MULLER

BUOY 207 TO LIGHT 204
REACH 12

Sheet
reference
number:
3 of 3

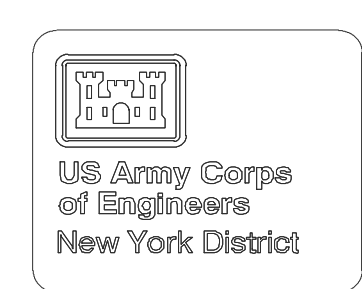
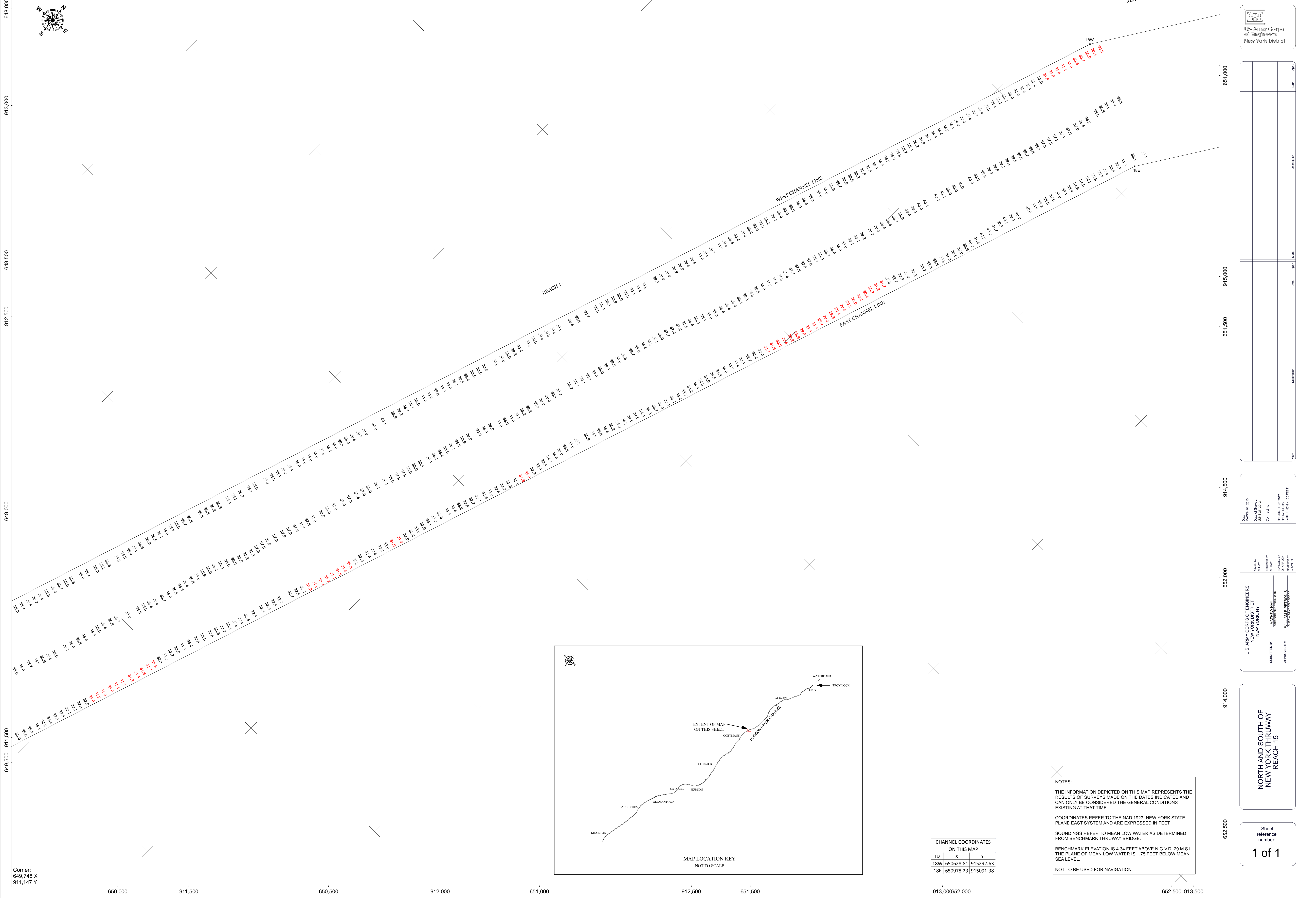
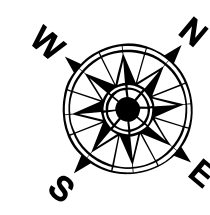


ID	X	Y
15W	653610.24	920053.19
16W	653393.87	919492.78
16E	653906.79	919621.83

NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK VLOMANKILL CREEK.
BENCHMARK ELEVATION IS 1.97 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.

655,000 922,000 655,500 922,500 656,000 923,000

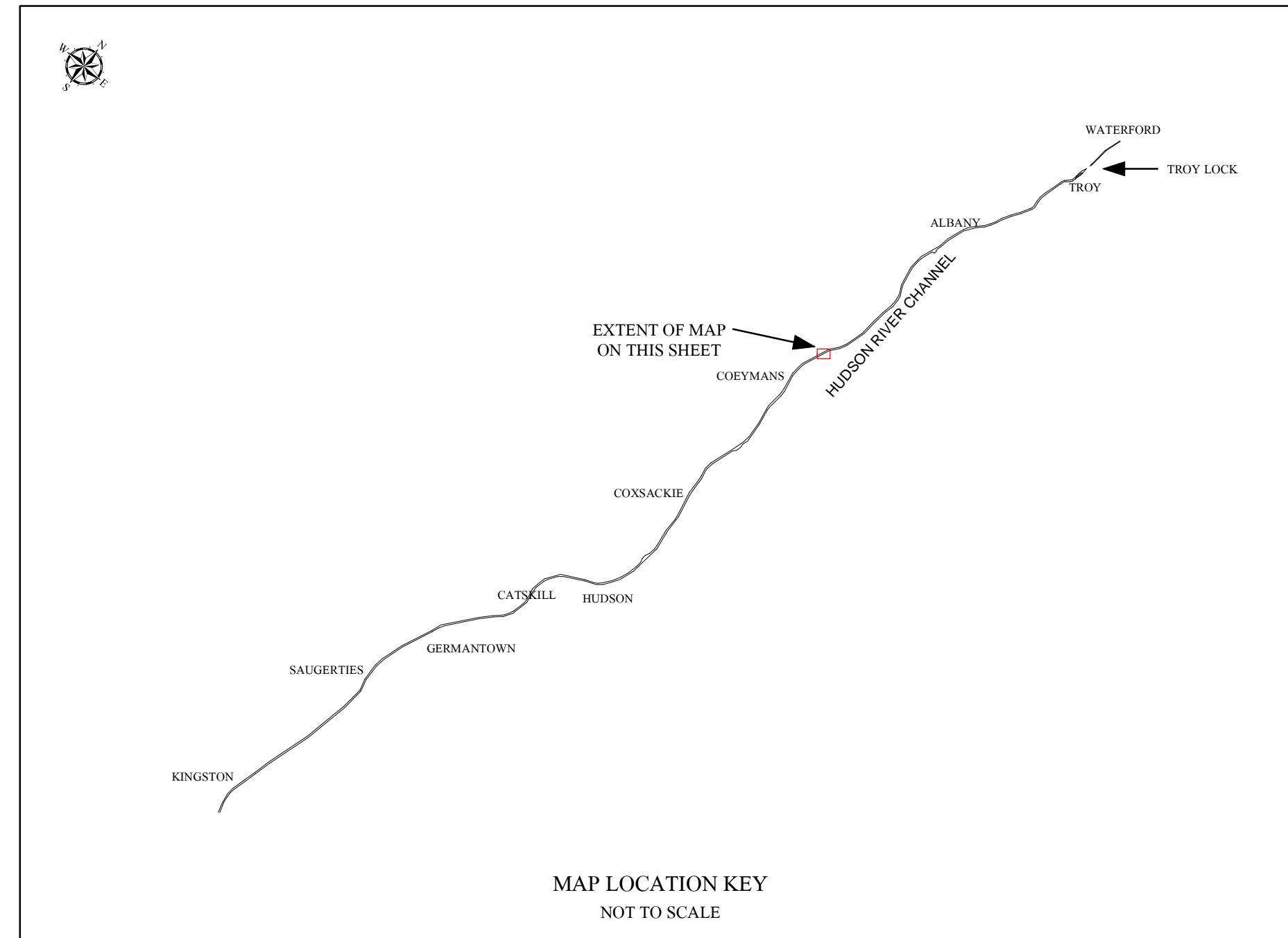
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Date	Description

Drawn by: MURPHY	Checked by: D. KNECK	Scale: 1 inch = 100 feet
Date of Survey: JUNE 27, 2012	Project No.:	
Submitted by: MATTHEW J. JAY, CHIEF OF DISTRICT	Approved by: WILLIAM J. PETERSON, DISTRICT ENGINEER	

**NORTH AND SOUTH OF
NEW YORK THRUWAY
REACH 15**



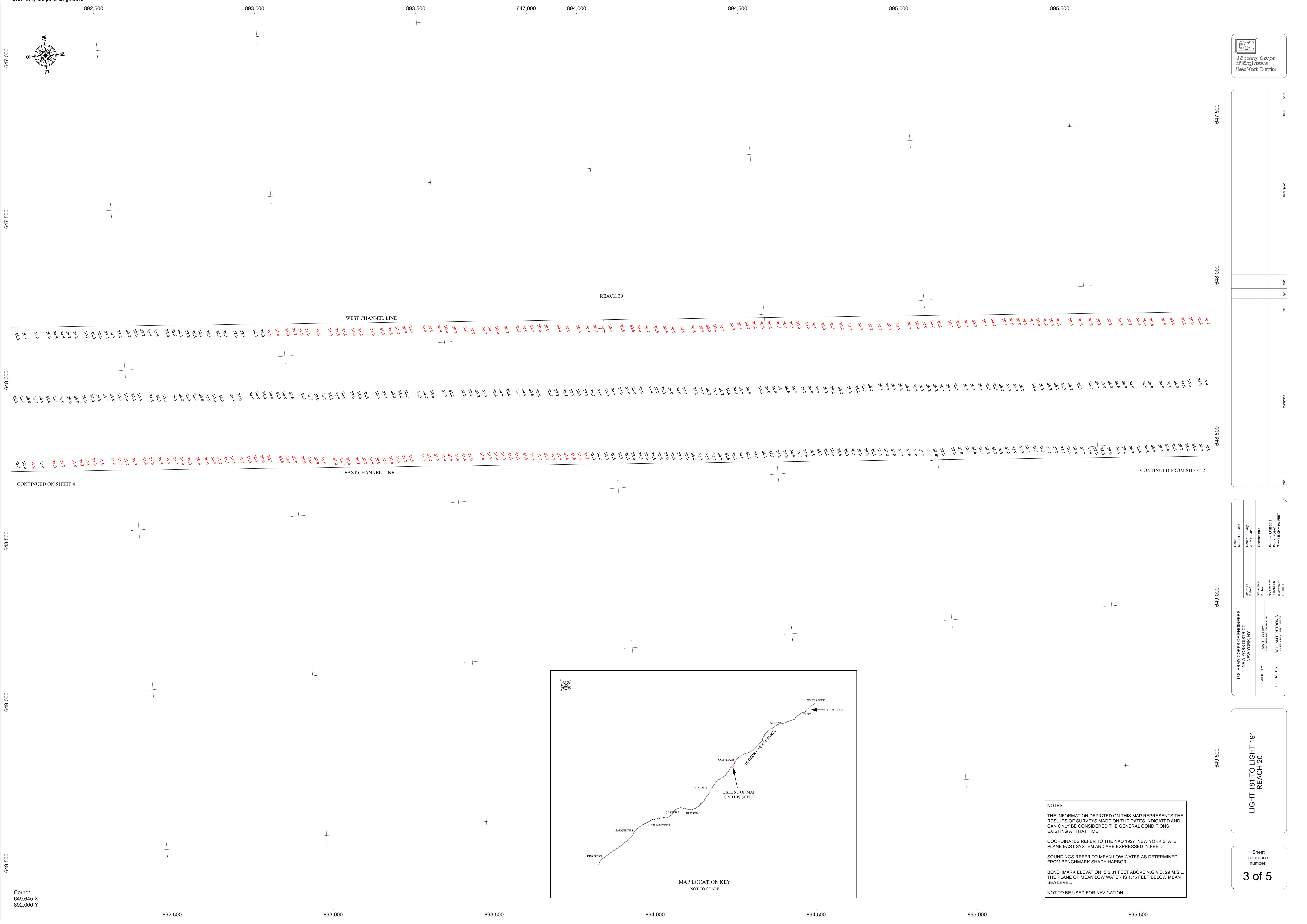
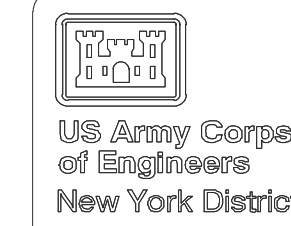
NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK THRUWAY BRIDGE.
BENCHMARK ELEVATION IS 4.34 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.

CHANNEL COORDINATES ON THIS MAP

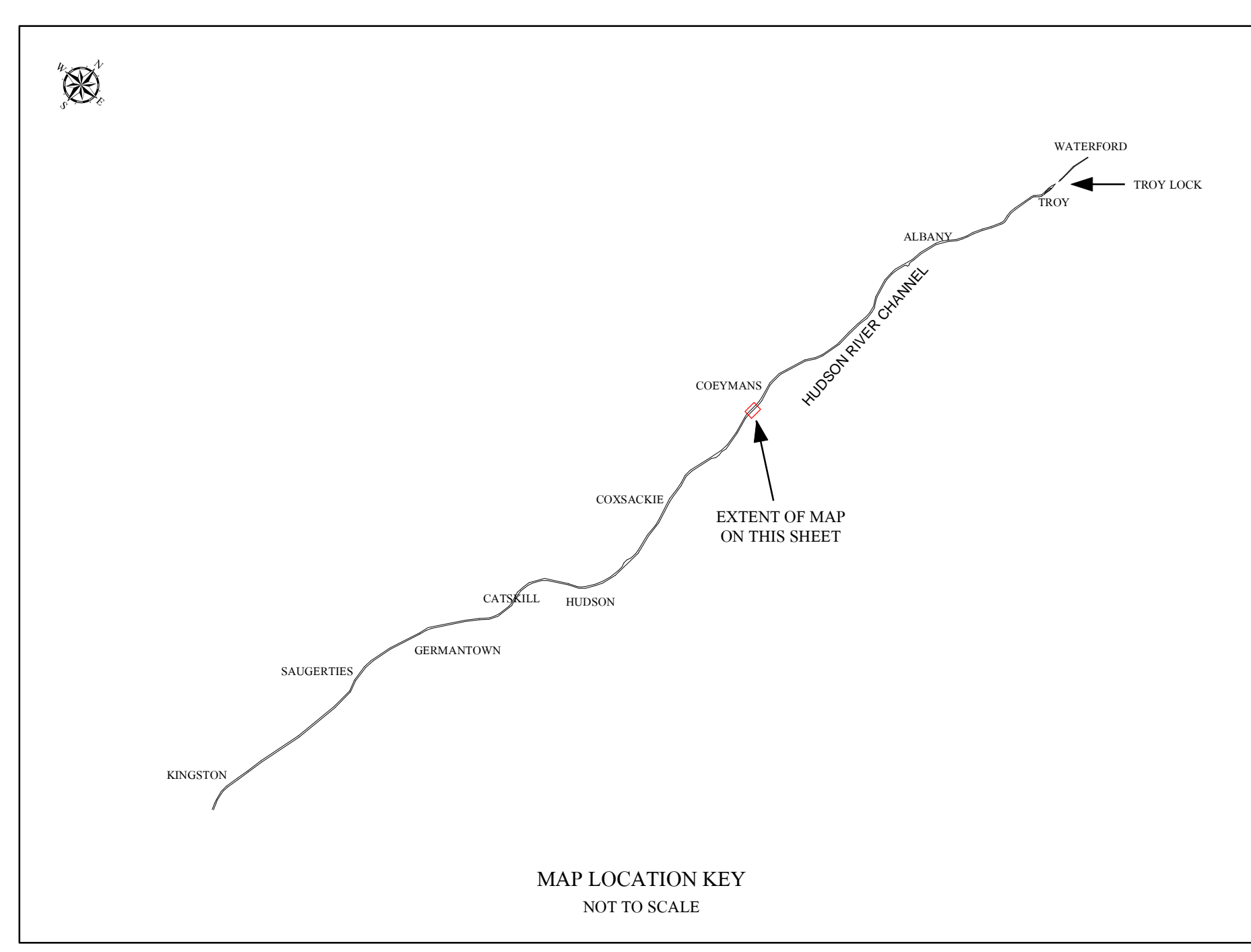
ID	X	Y
18W	650628.81	915292.63
18E	650978.23	915091.38

Corner:
649,748 X
911,147 Y

650,000 911,500 650,500 912,000 651,000 912,500 651,500 913,000 652,000 913,500 652,500 913,500



Corner:
649,645 X
892,000 Y



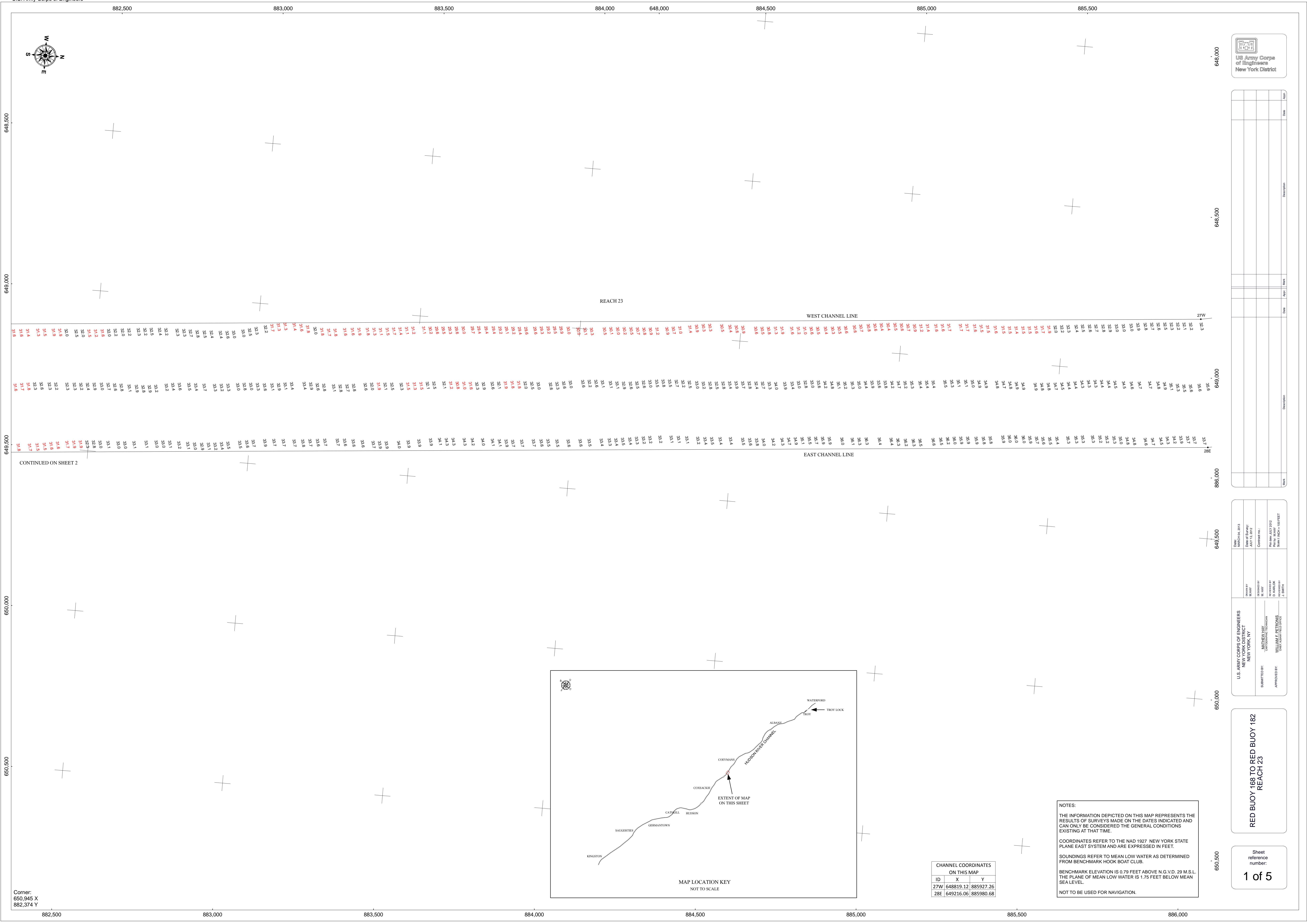
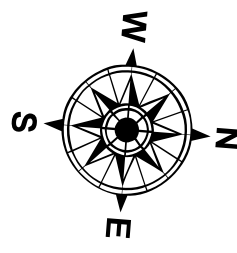
NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK SHADY HARBOR.
BENCHMARK ELEVATION IS 2.31 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.

NO.	DATE	DESCRIPTION

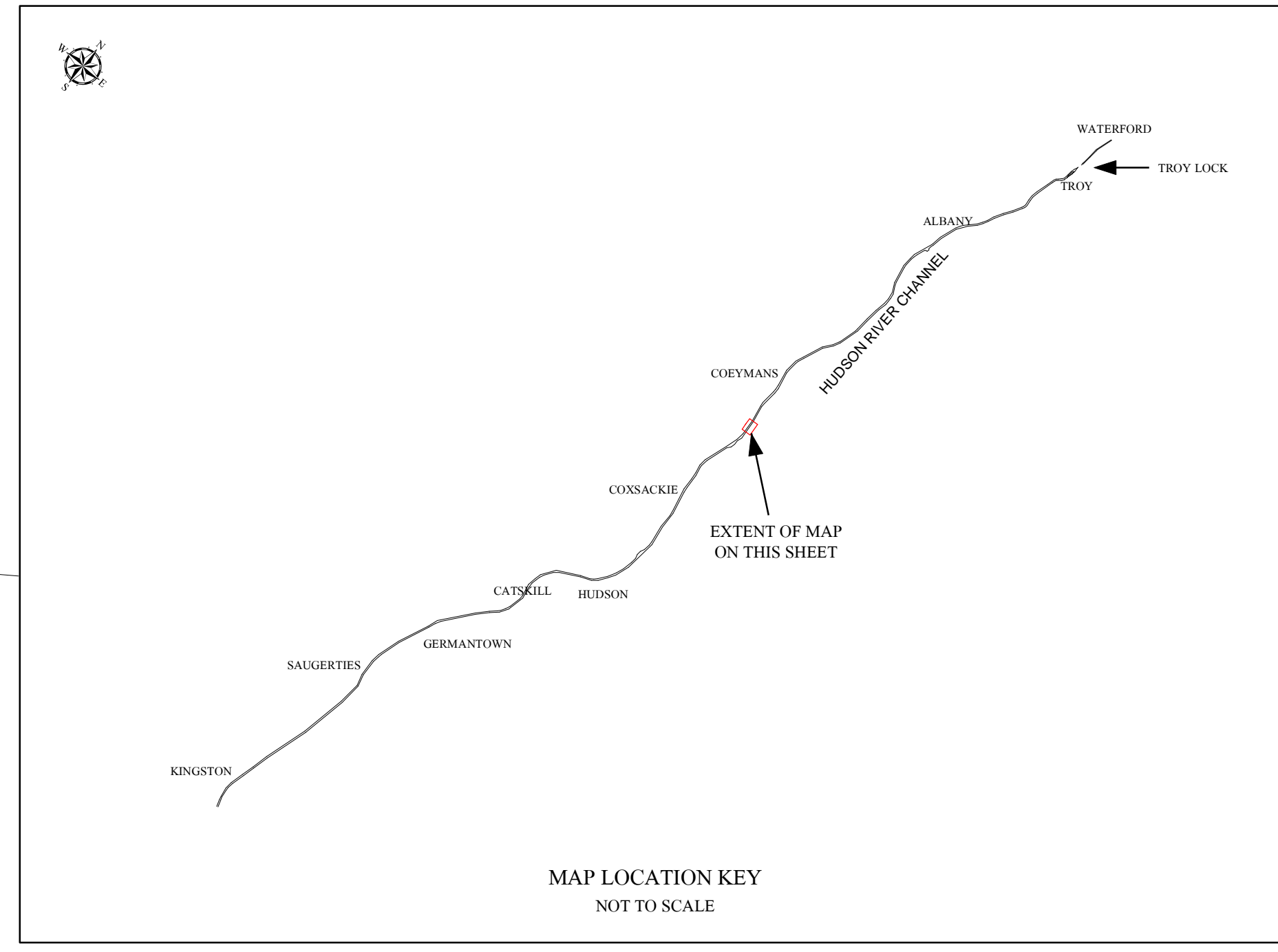
U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: 07/18/2022
DESIGNED BY: MATTHEW J. WYATT	DATE: 07/18/2022
DRAWN BY: D. KNECK	DATE: 07/18/2022
CHECKED BY: WILLIAM F. BRIDGEMAN	DATE: 07/18/2022
APPROVED BY: [Signature]	DATE: 07/18/2022

LIGHT 181 TO LIGHT 191
REACH 20

Sheet
reference
number:
3 of 5



Corner:
650,945 X
882,374 Y



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
27W	648819.12	885927.26
28E	649216.06	885980.68

NOTES:

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

COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.

SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK HOOK BOAT CLUB.

BENCHMARK ELEVATION IS 0.79 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.

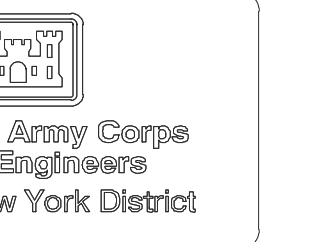
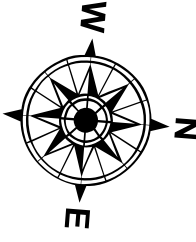
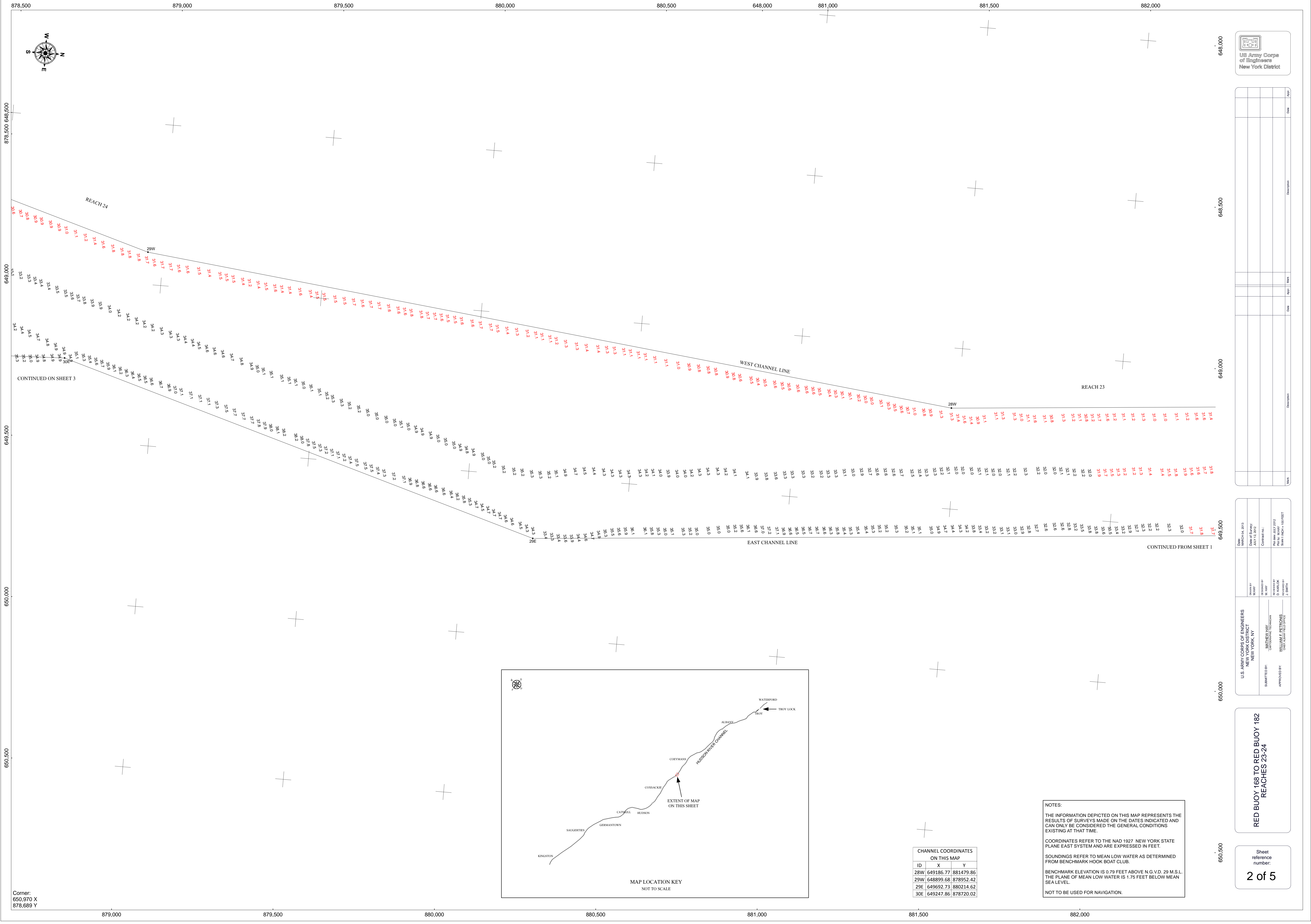
NOT TO BE USED FOR NAVIGATION.

Date	Description	Date	Description

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: 04/04/2013 DATE OF SURVEY: JULY 12, 2012
DESIGNED BY: MATTHEW J. HAY CHECKED BY: D. KIRK APPROVED BY: WILLIAM F. BRIDGEMAN CHIEF, NAVY FIELD OFFICE	CONTRACT NO.: DRAWING NO.: 27W-182-23 SCALE: 1"=100' FEET

**RED BUOY 168 TO RED BUOY 182
REACH 23**

Sheet reference number:
1 of 5



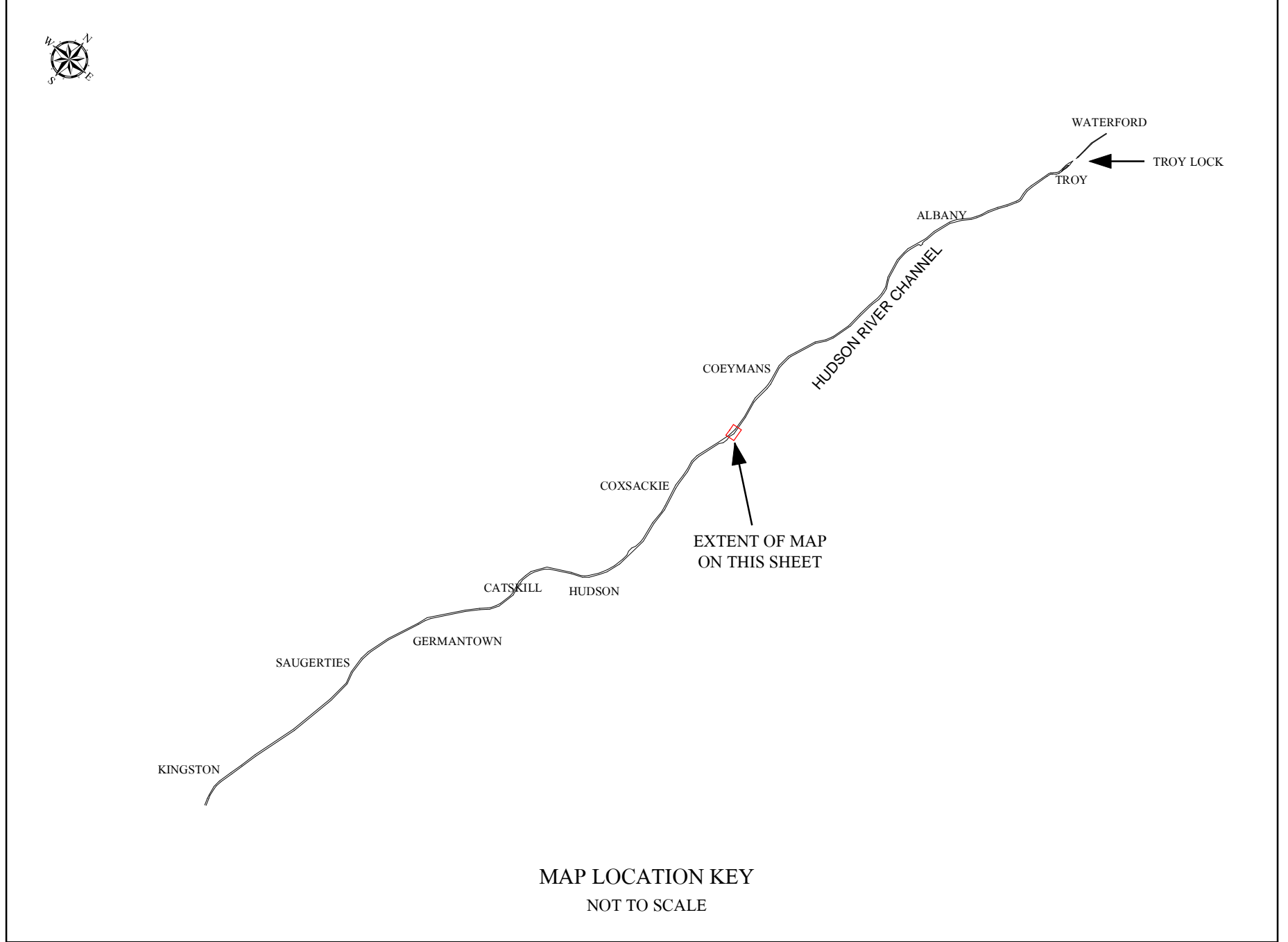
Description	Date	Drawn	Checked	Scale

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: 04/2013 DRAWN BY: MUMF CHECKED BY: MUMF APPROVED BY: MUMF
	DATE OF SURVEY: JULY 12, 2012 PROJECT NO.: 648899.68 DRAWING NO.: 23-24 SCALE: HORIZONTAL = 1"=100 FEET

RED BUOY 168 TO RED BUOY 182
REACHES 23-24

Sheet
reference
number:
2 of 5

Corner:
650,970 X
878,689 Y



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
28W	649186.77	881479.86
29W	648899.68	878952.42
29E	649692.73	880214.62
30E	649247.86	878720.02

NOTES:

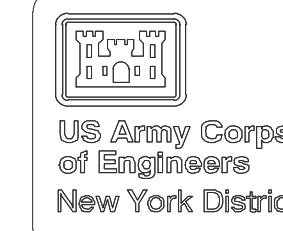
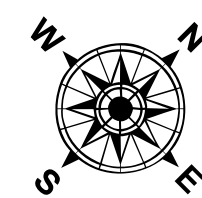
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.

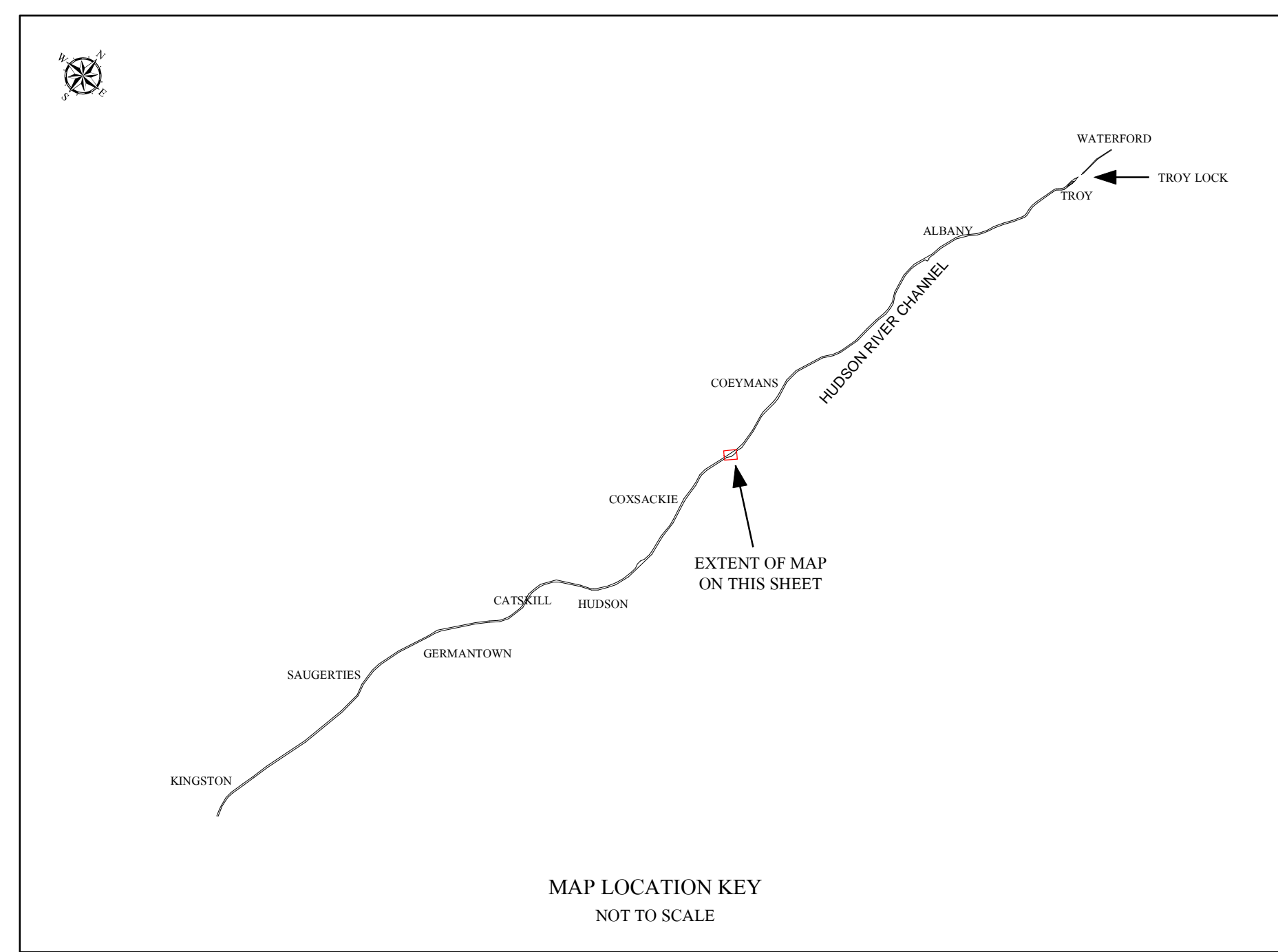
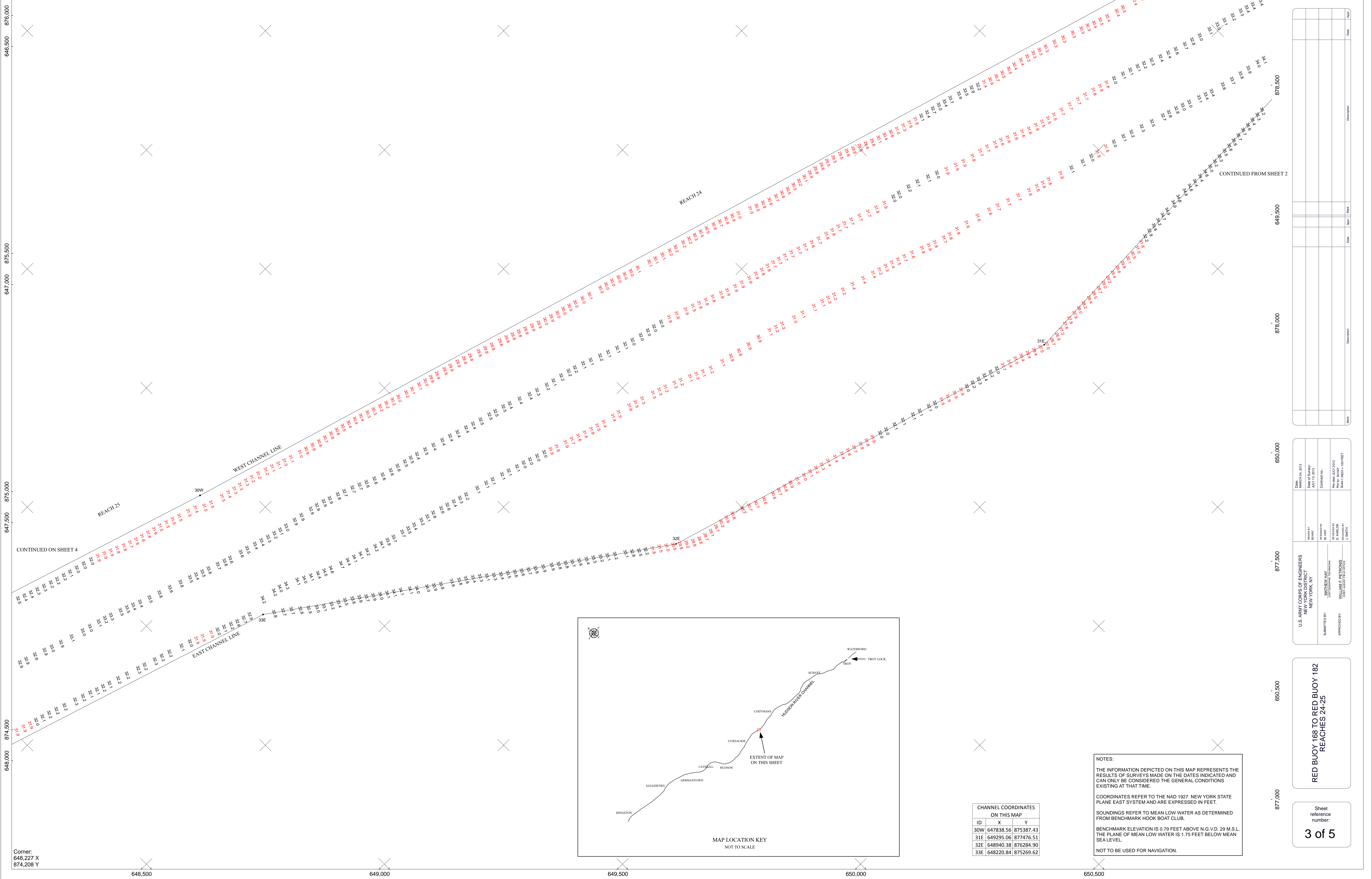
SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK HOOK BOAT CLUB.

BENCHMARK ELEVATION IS 0.79 FEET ABOVE N.G.V. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.

NOT TO BE USED FOR NAVIGATION.



US Army Corps of Engineers
New York District



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
30W	647838.56	875387.43
31E	649295.06	877476.51
32E	648940.38	876284.90
33E	648220.84	875269.62

NOTES:

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

COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.

SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK HOOK BOAT CLUB.

BENCHMARK ELEVATION IS 0.79 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.76 FEET BELOW MEAN SEA LEVEL.

NOT TO BE USED FOR NAVIGATION.

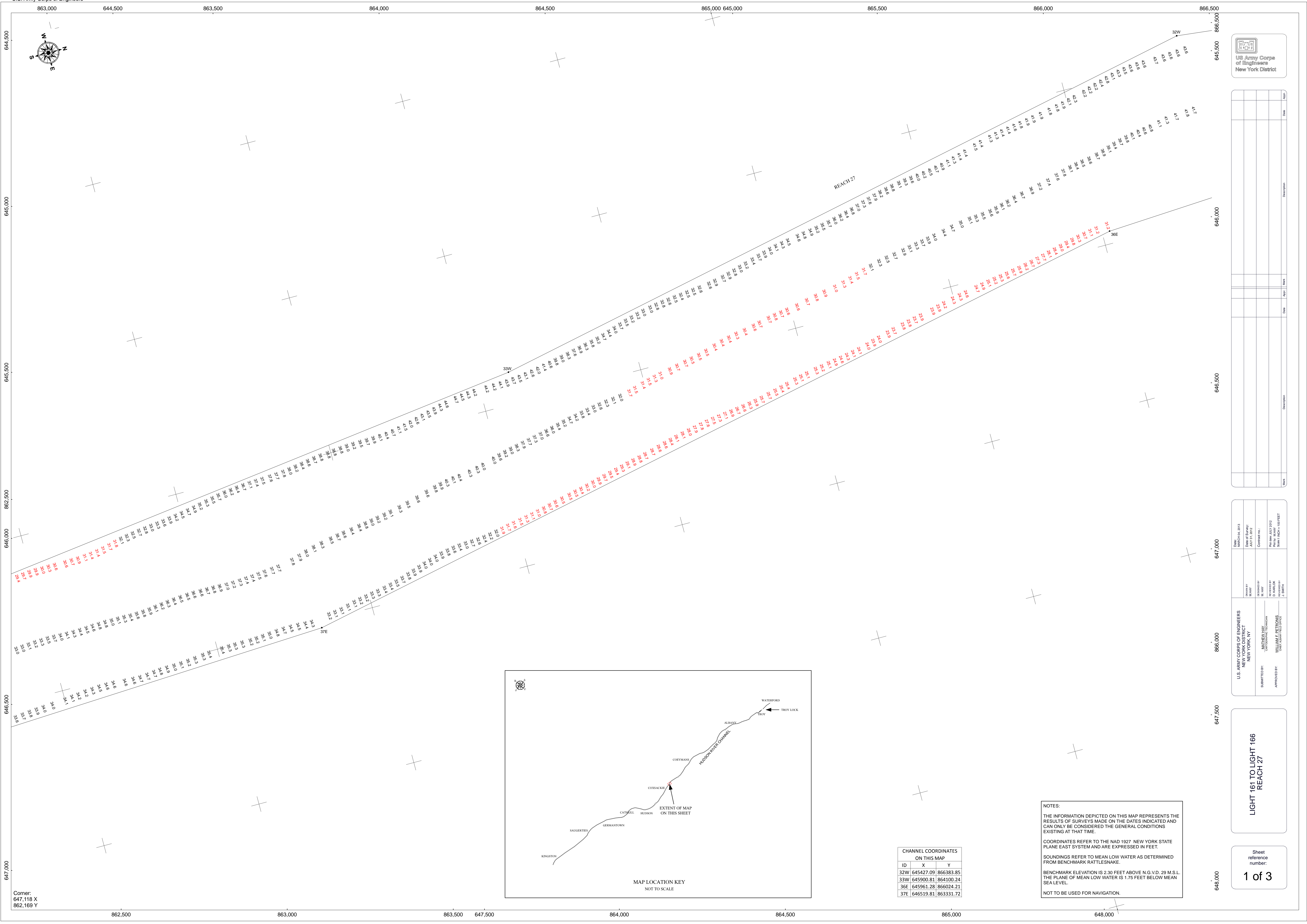
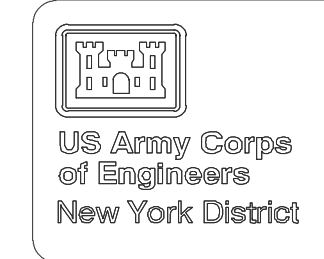
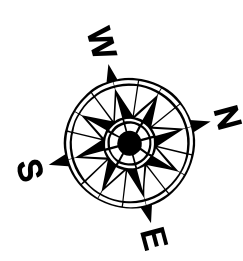
Corner:
648,227 X
874,208 Y

ID	Description	Date	Drawn	Check

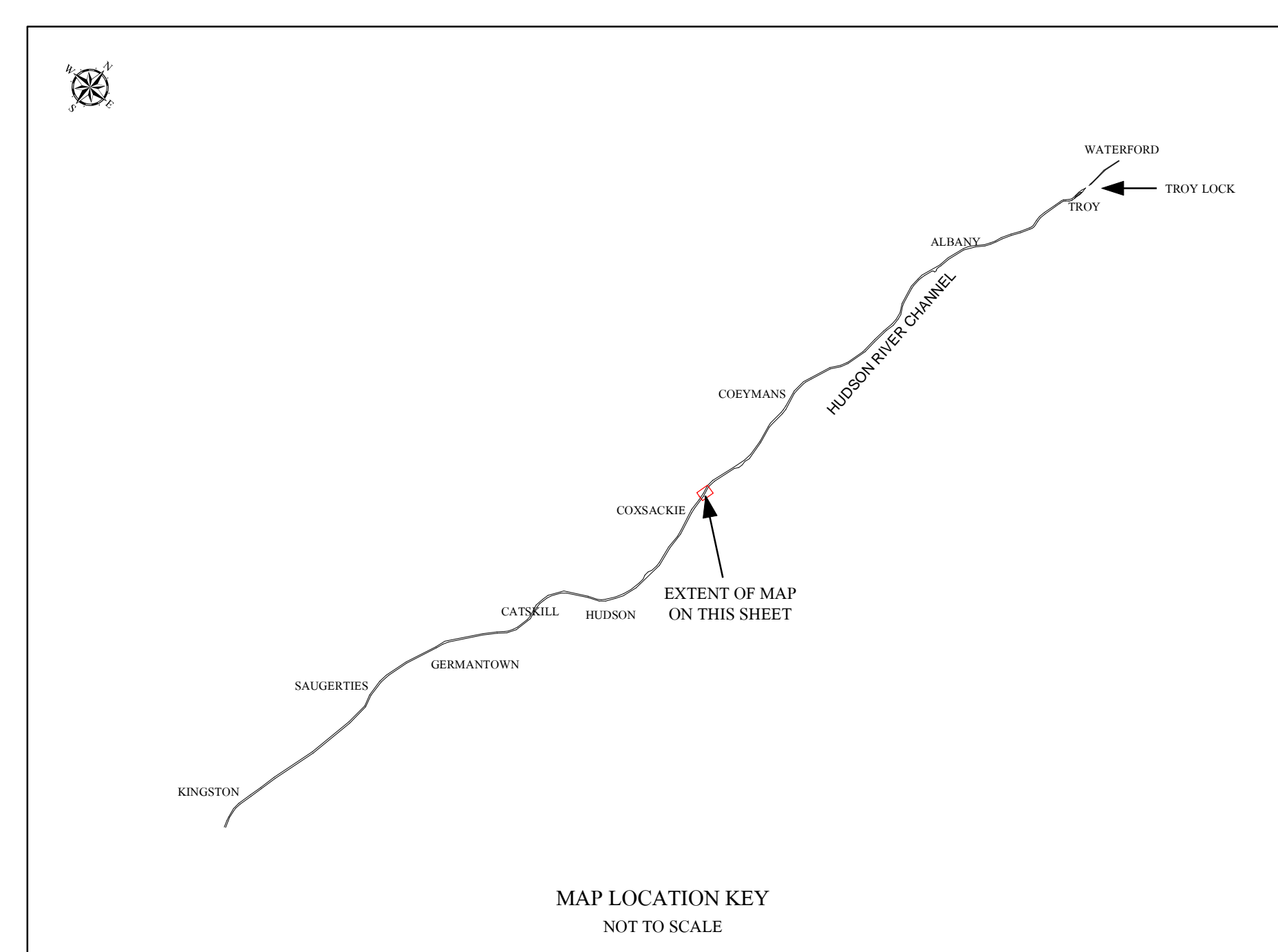
U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: 04/14/2013 DATE OF SURVEY: JULY 12, 2012
DESIGNED BY: MATTHEW J. MANN CHECKED BY: WILLIAM F. BRIDGEMAN APPROVED BY: JOHN J. MANN	CONTRACT NO.: SURVEY NO.: 101212 SCALE: 1"=100' FEET

RED BUOY 168 TO RED BUOY 182
REACHES 24-25

Sheet reference number:
3 of 5



Corner:
647,118 X
862,169 Y



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
32W	645427.09	866383.85
33W	645900.81	864100.24
36E	645961.28	866024.21
37E	646519.81	863331.72

NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK RATTLESNAKE.
BENCHMARK ELEVATION IS 2.30 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.

NO.	DATE	DESCRIPTION

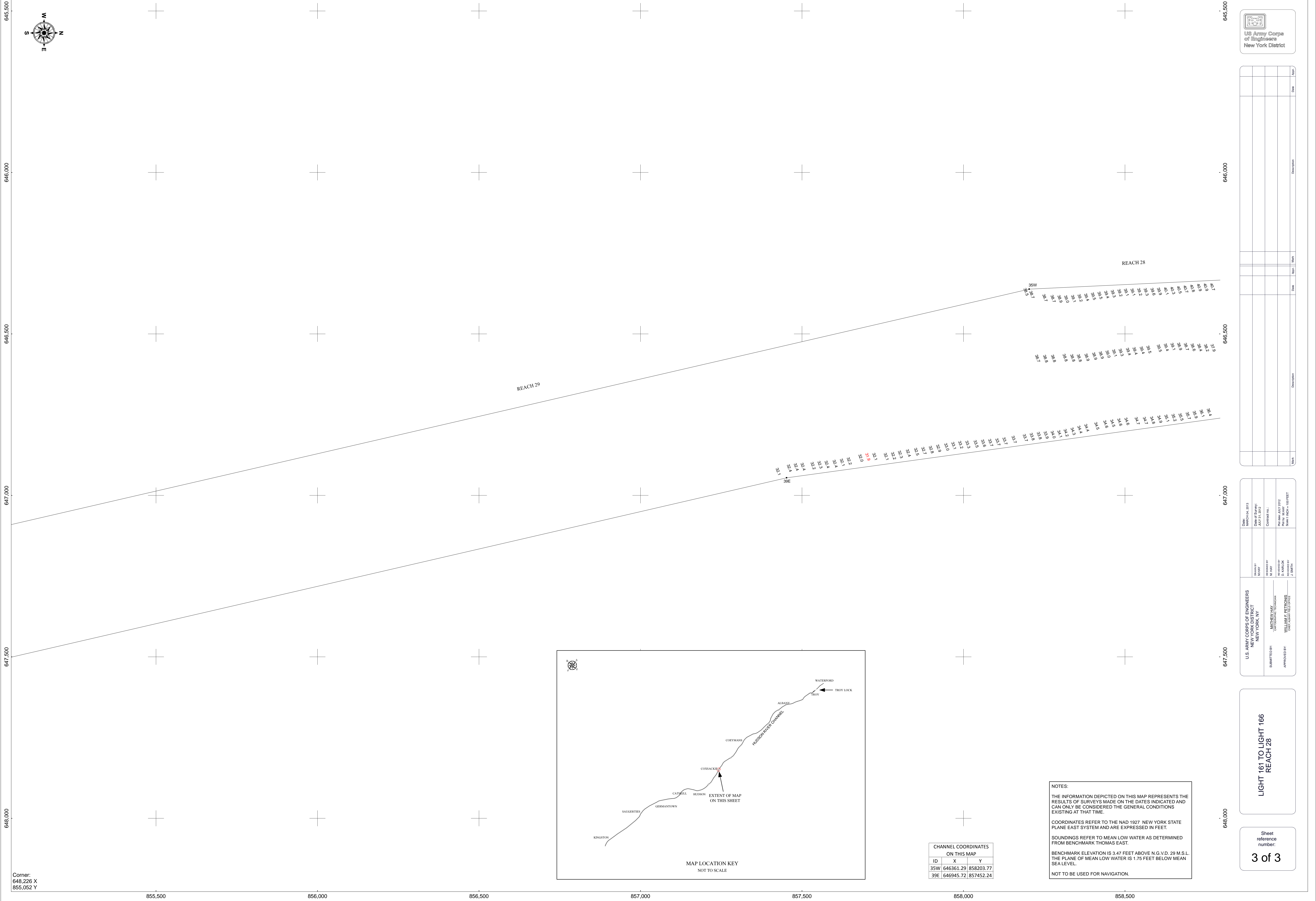
U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: 04/04/2013 DATE OF SURVEY: JULY 21, 2012
SUBMITTED BY: MATTHEW J. MURPHY SUPERVISOR: D. MURPHY	CONTRACT NO.: PROJECT NO.: 13012 PROJECT NAME: LIGHT 161 TO LIGHT 27
APPROVED BY: WILLIAM F. BRIDGEMAN CHIEF, ALBANY DISTRICT	SCALE: 1"=100 FEET

LIGHT 161 TO LIGHT 166
REACH 27

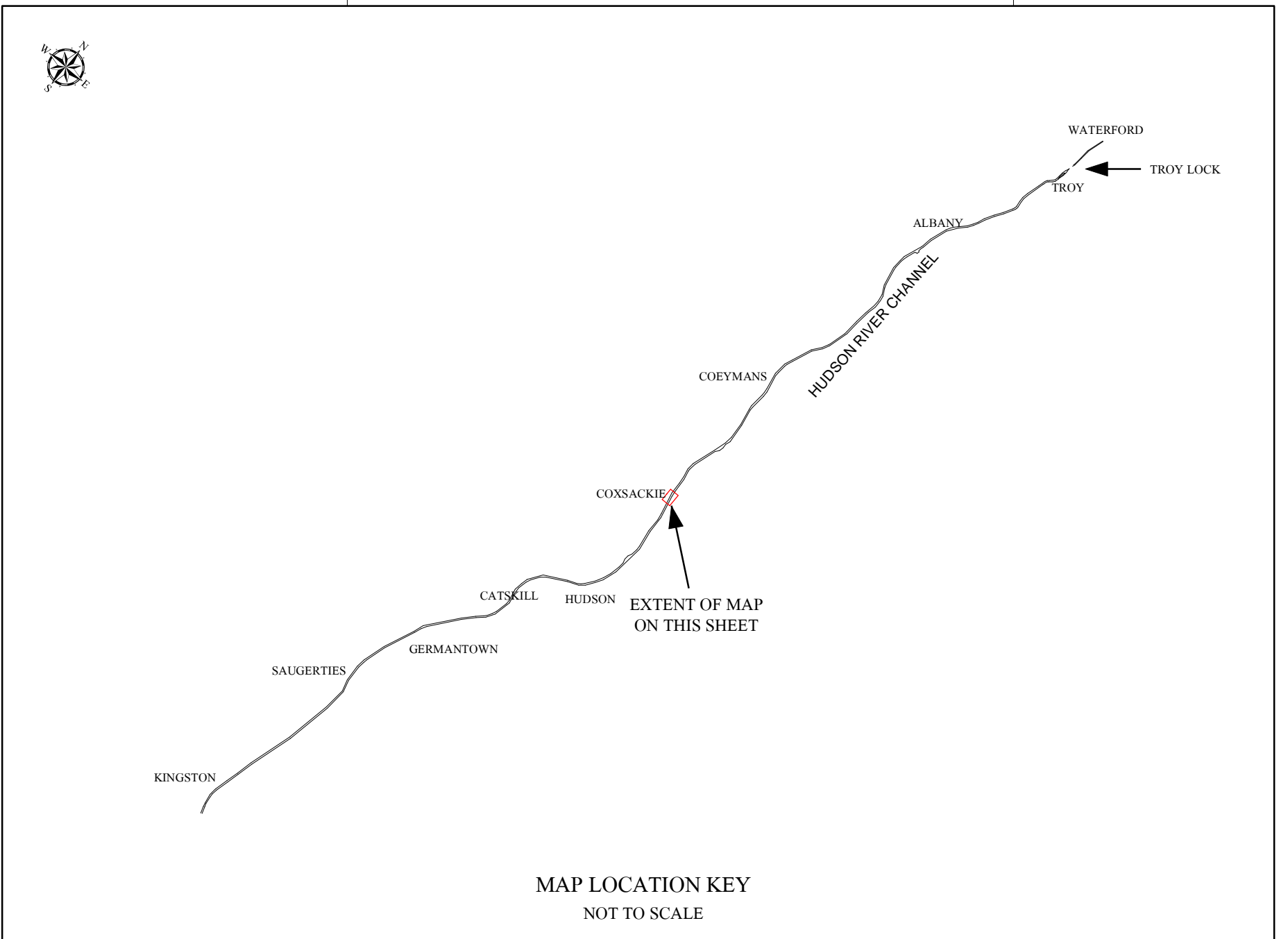
Sheet reference number:
1 of 3

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855,500 856,000 856,500 857,000 857,500 858,000 858,500



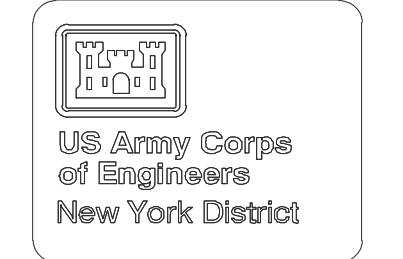
Corner:
648,226 X
855,052 Y



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
35W	646361.29	858203.77
39E	646945.72	857452.24

NOTES:
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK THOMAS EAST.
 BENCHMARK ELEVATION IS 3.47 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.76 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

645,500 646,000 646,500 647,000 647,500 648,000

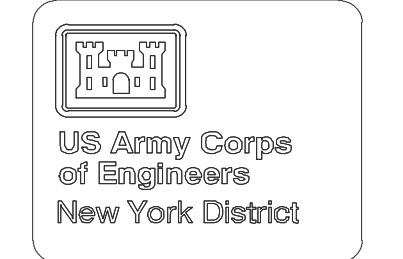
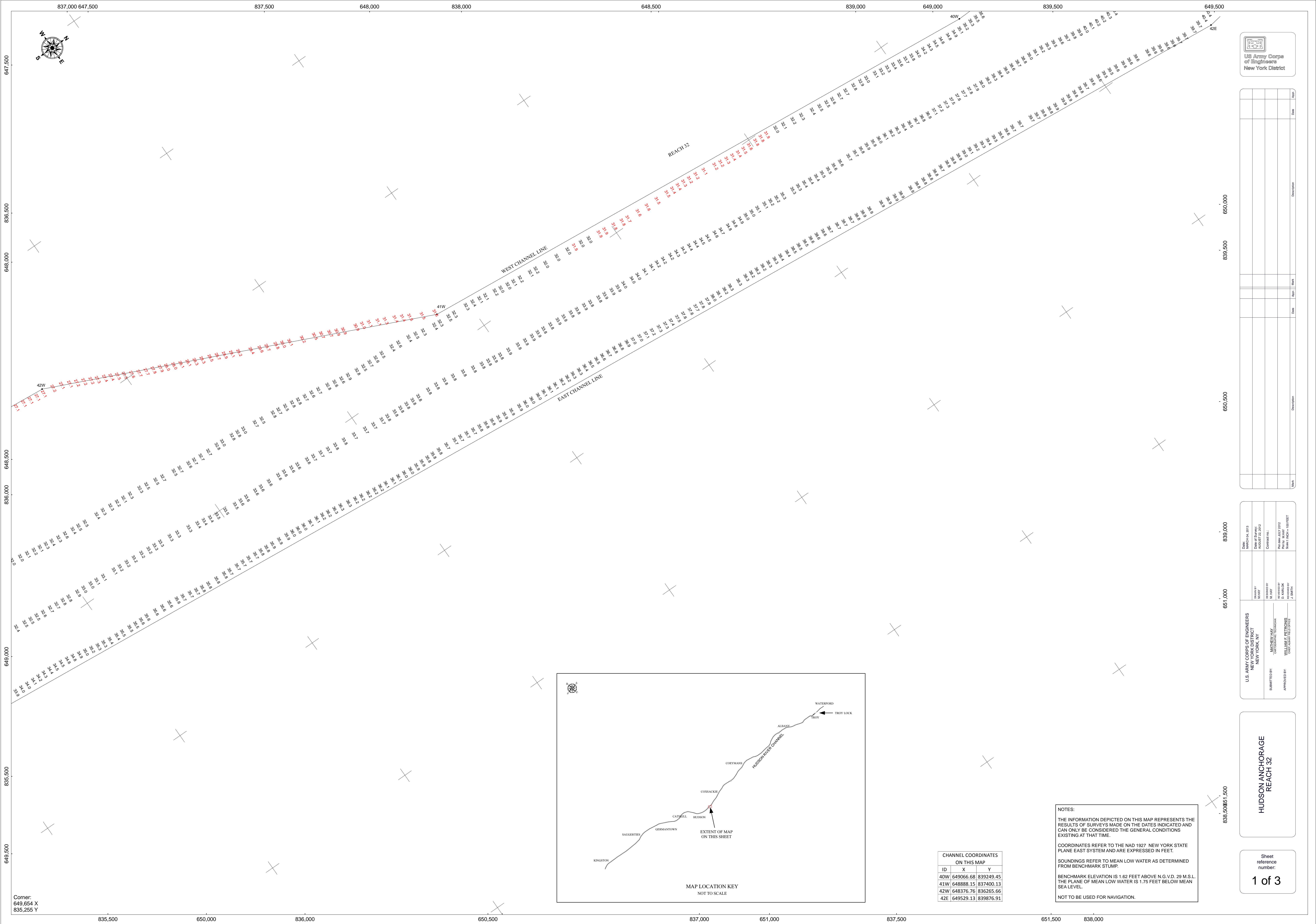


Date	Description

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: March 04, 2013 DATE OF SURVEY: July 21, 2012
DRAWN BY: MUMBY CHECKED BY: MUMBY	COMMENT NO.: SCALE: 1" = 100' (2012) DRAWN BY: MUMBY CHECKED BY: MUMBY
SUBMITTED BY: MATTHEW MUMBY OFFICE: NEW YORK DISTRICT	APPROVED BY: WILLIAM F. BRIDGERS TITLE: DISTRICT ENGINEER

LIGHT 161 TO LIGHT 166
REACH 28

Sheet reference number:
3 of 3

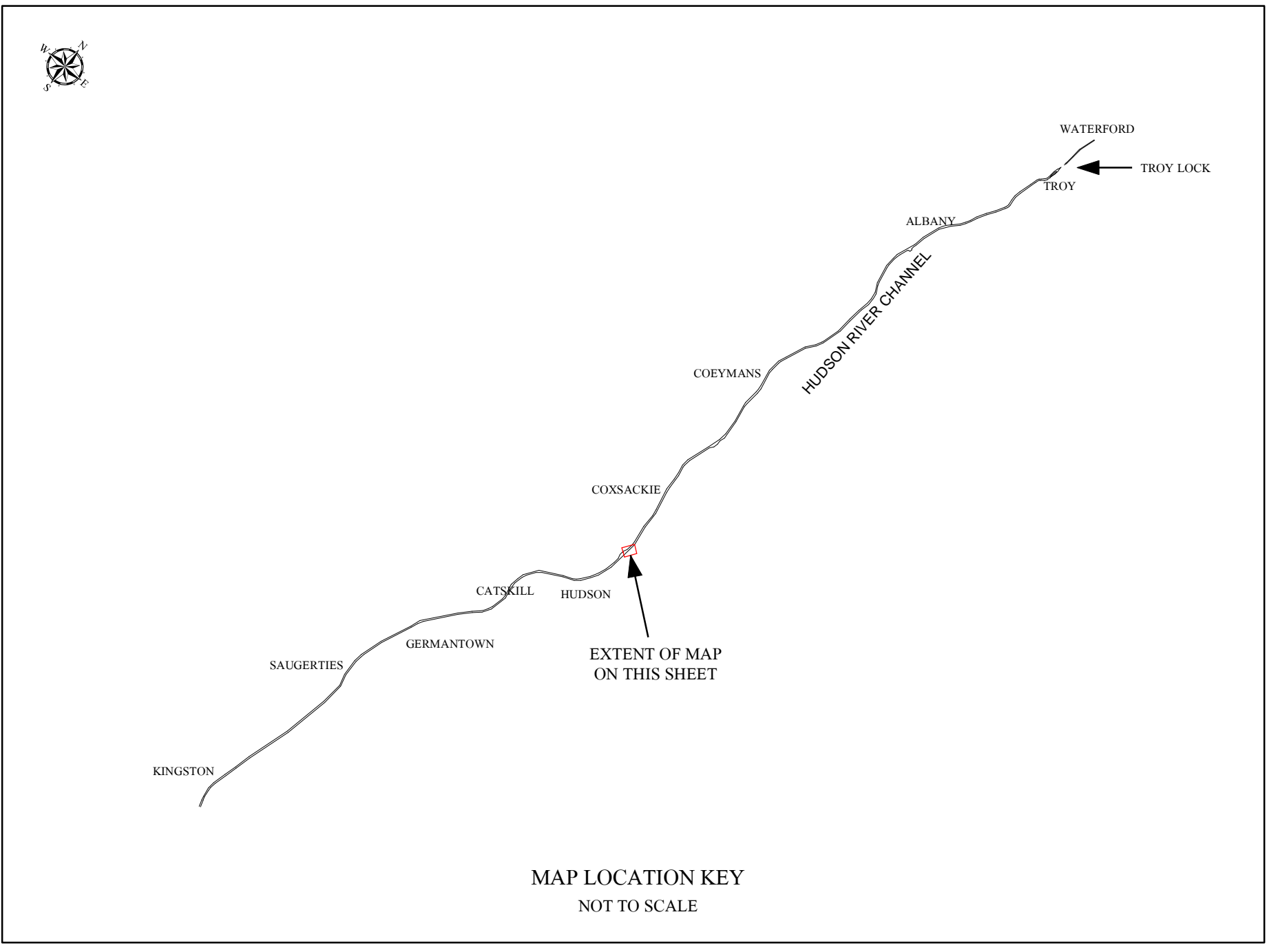


ID	Description	Date	Drawn	Checked	Scale

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	Date of Survey: AUGUST 22, 2012	Contract No.: W15NY00122	Survey No.: NY-11-101
DRAWN BY: M. J. ...	CHECKED BY: D. ...	APPROVED BY: W. ...	SCALE: (HORIZONTAL) = 100 FEET

**HUDSON RIVER CHANNEL
REACH 32**

Sheet
reference
number:
1 of 3



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
40W	649066.68	839249.45
41W	648888.15	837400.13
42W	648376.76	836265.66
42E	649529.13	839876.91

NOTES:
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK STUMP.
 BENCHMARK ELEVATION IS 1.62 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

Corner:
649,654 X
835,255 Y

835,500 650,000 836,000 650,500 837,000 651,000 837,500 651,500 838,000

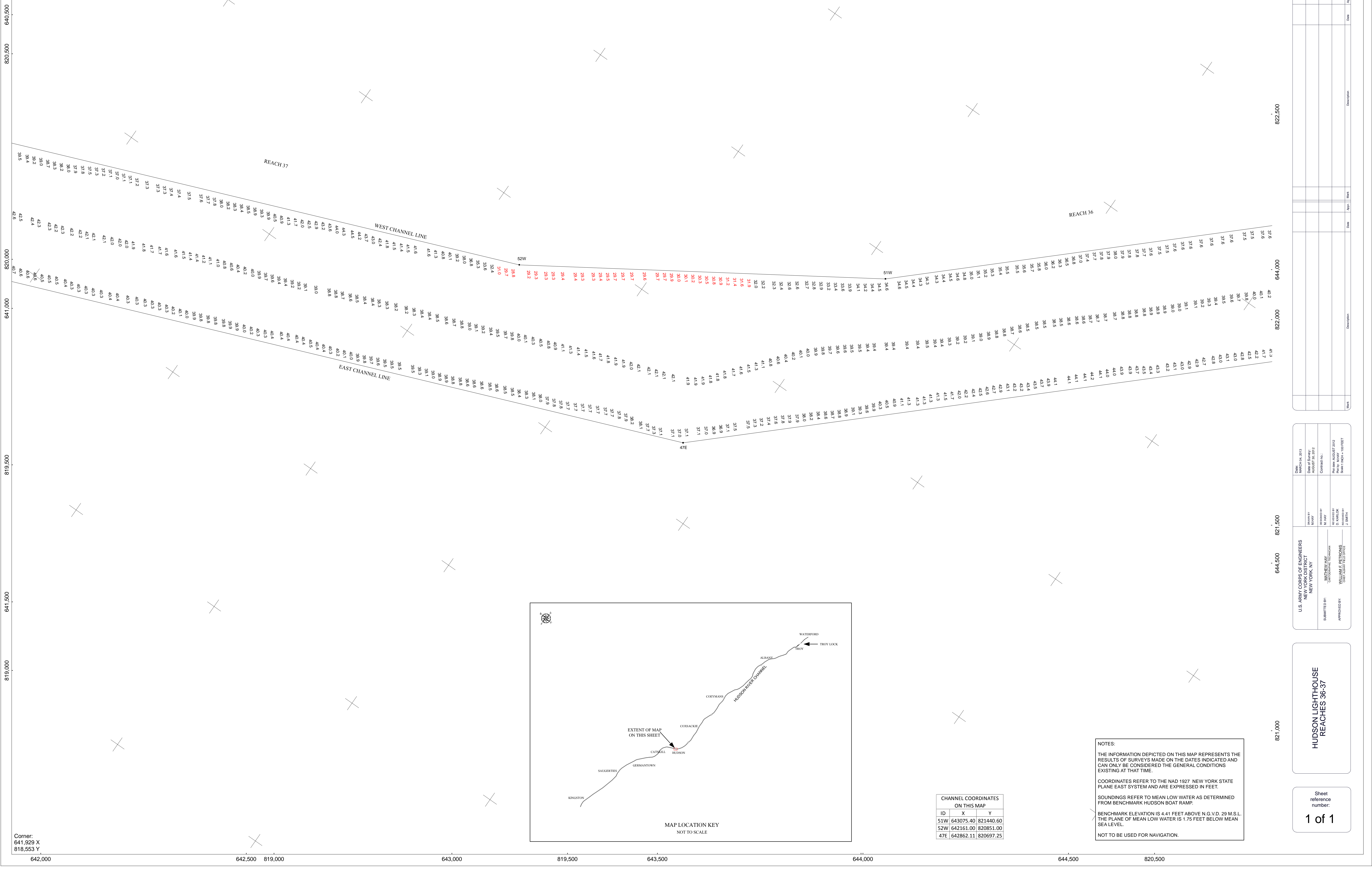
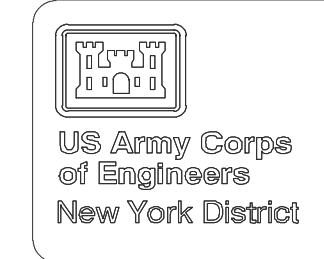
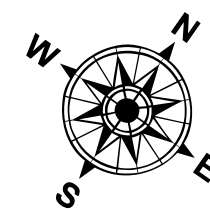
838,500 651,500

839,000

650,500

650,000

649,500

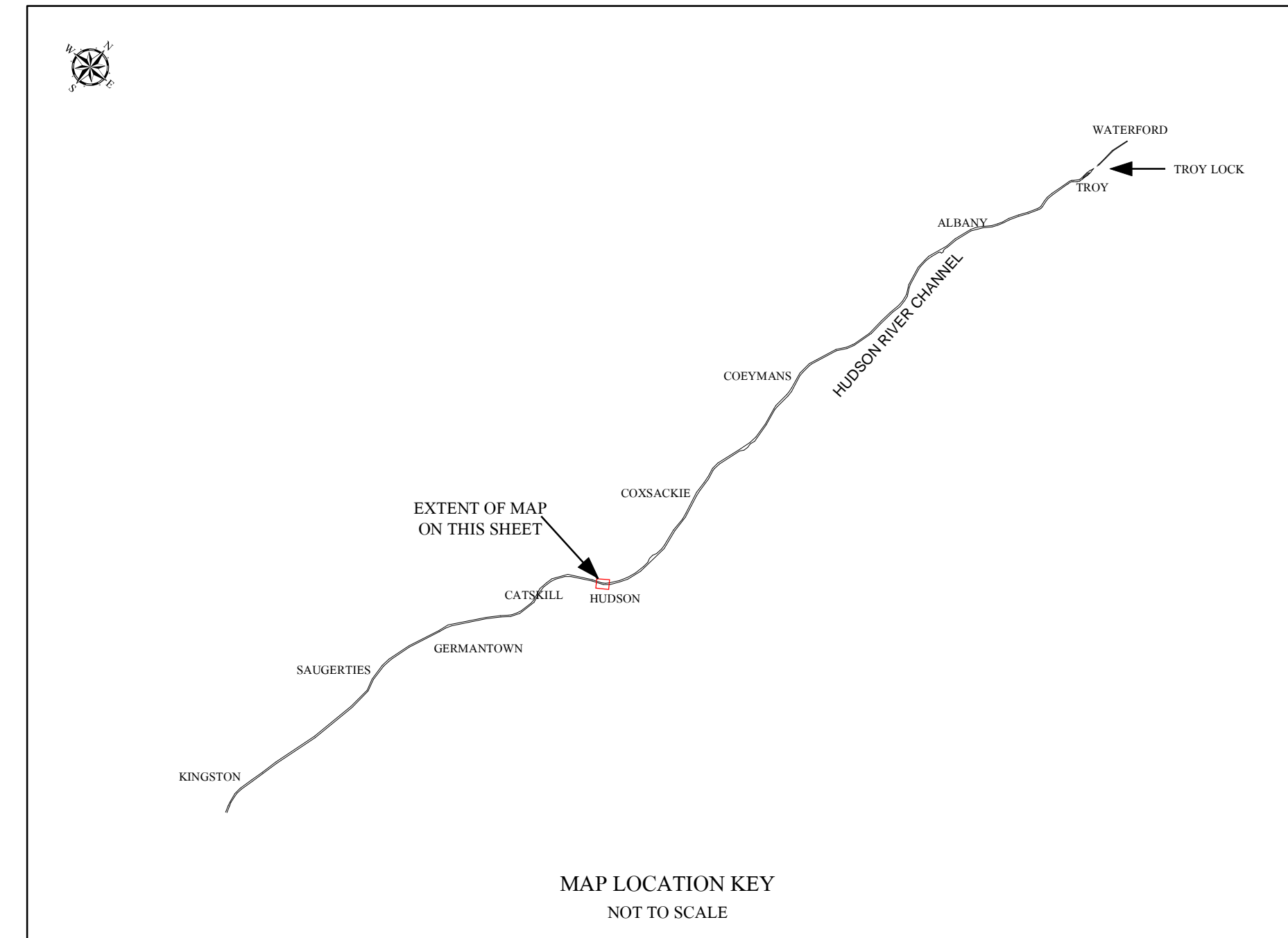


Date	Description	Date	Description

DATE: March 04, 2013	DATE OF SURVEY: August 30, 2012	CONTRACT NO.:
DRAWN BY: MUMF	DESIGNED BY: MUMF	PROJECT NO.:
CHECKED BY: MUMF	APPROVED BY: MUMF	SCALE: 1"=100 FEET

HUDSON LIGHTHOUSE REACHES 36-37

Sheet reference number:
1 of 1



ID	X	Y
51W	643075.40	821440.60
52W	642161.00	820851.00
47E	642862.11	820697.25

NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK HUDSON BOAT RAMP.
BENCHMARK ELEVATION IS 4.41 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.

Corner:
641,929 X
818,553 Y

633,000

633,500

634,000

634,500

635,000

635,500

636,000

817,500

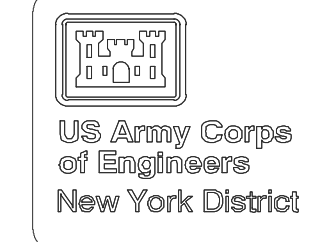
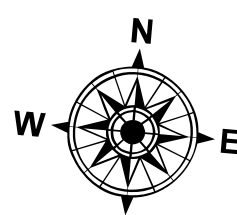
817,000

816,500

816,000

815,500

815,000



DATE	DESCRIPTION	BY	CHKD	DATE	DESCRIPTION	BY	CHKD

817,500

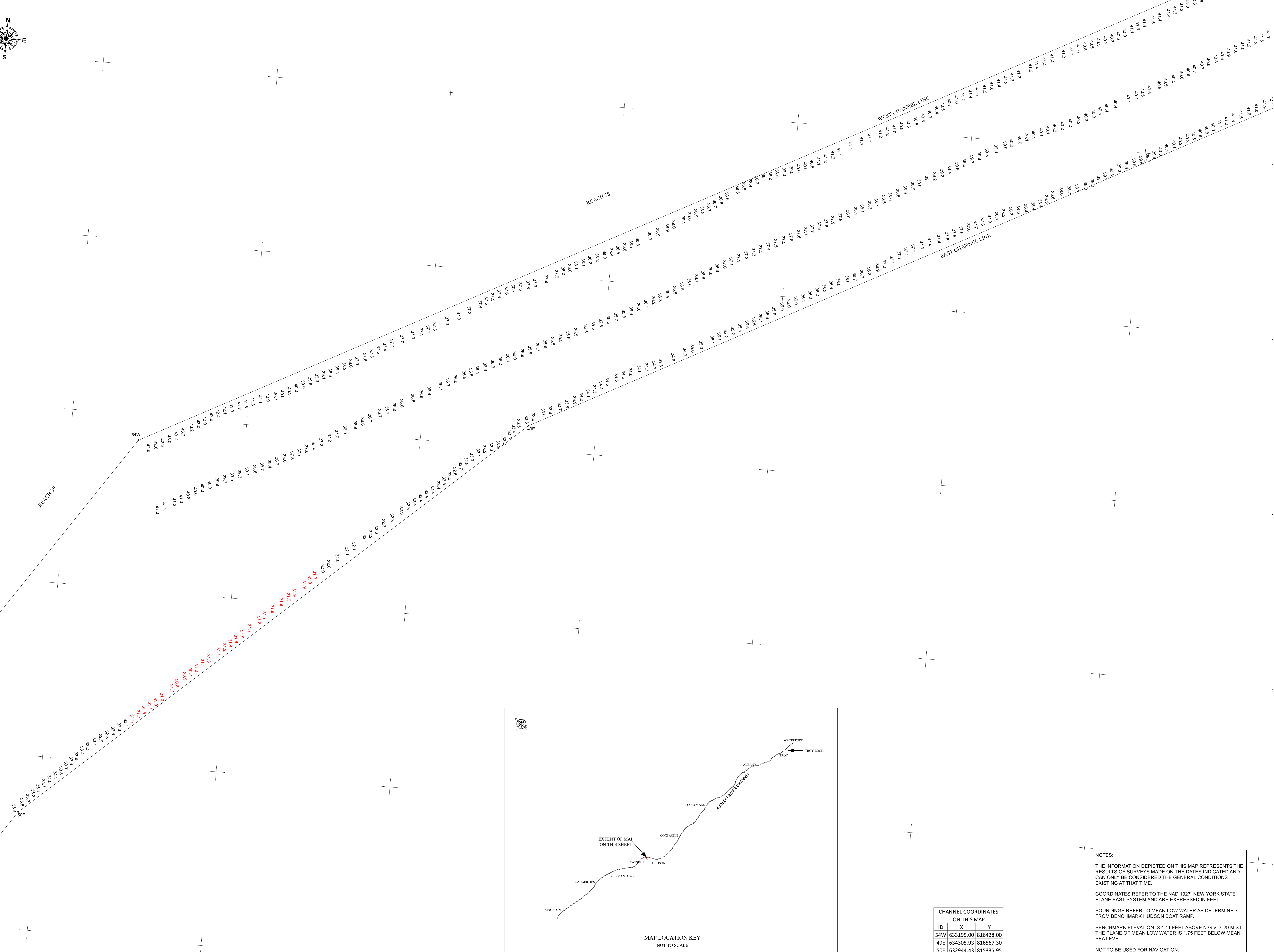
817,000

816,500

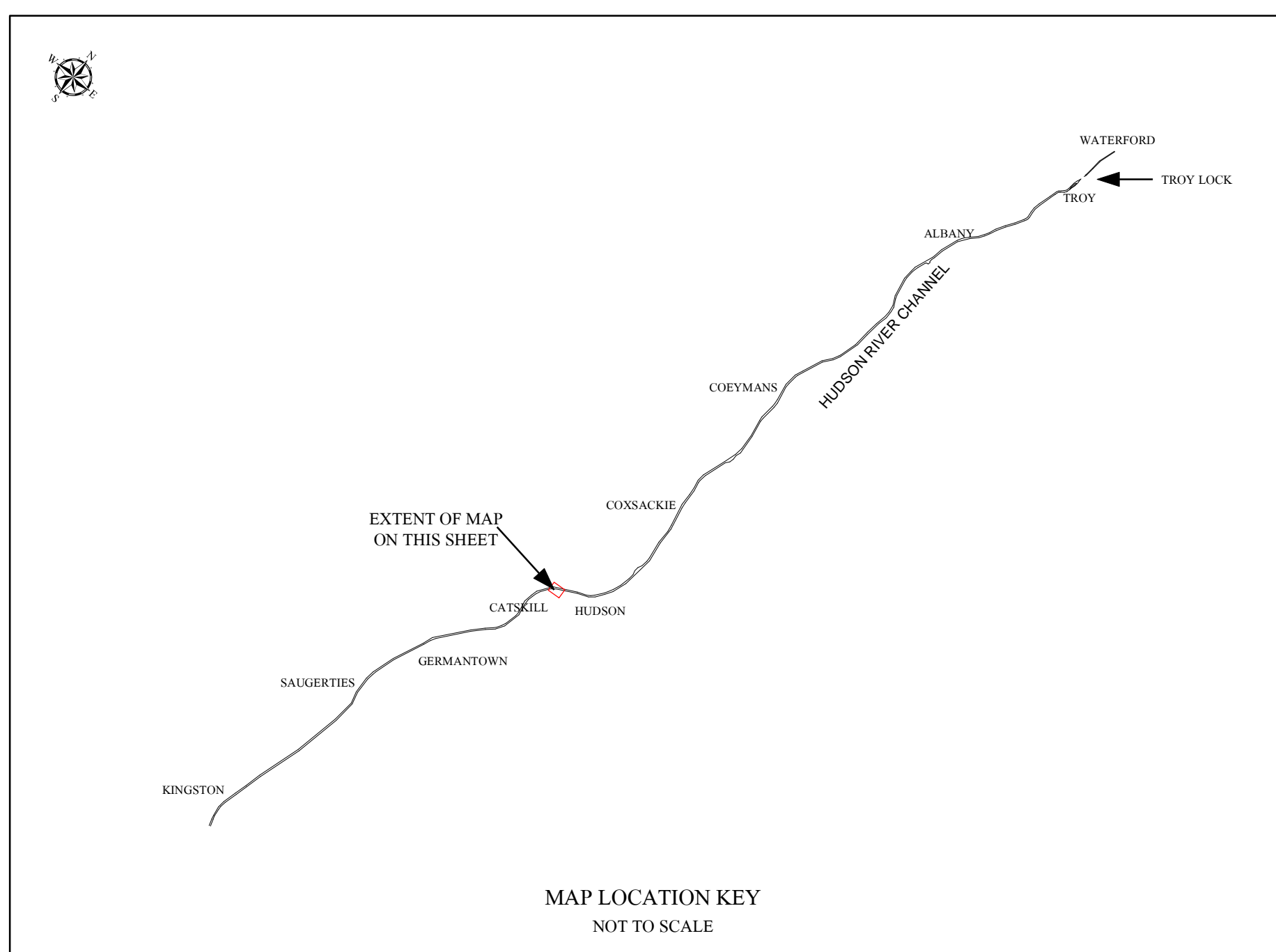
816,000

815,500

815,000



Corner:
632,841 X
814,878 Y



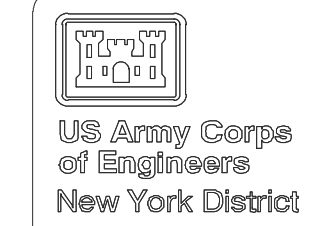
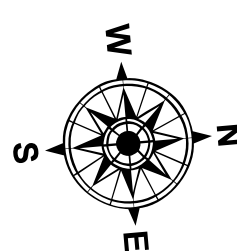
CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
54W	633195.00	816428.00
49E	634305.93	816567.30
50E	632944.43	815335.95

NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
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NOT TO BE USED FOR NAVIGATION.

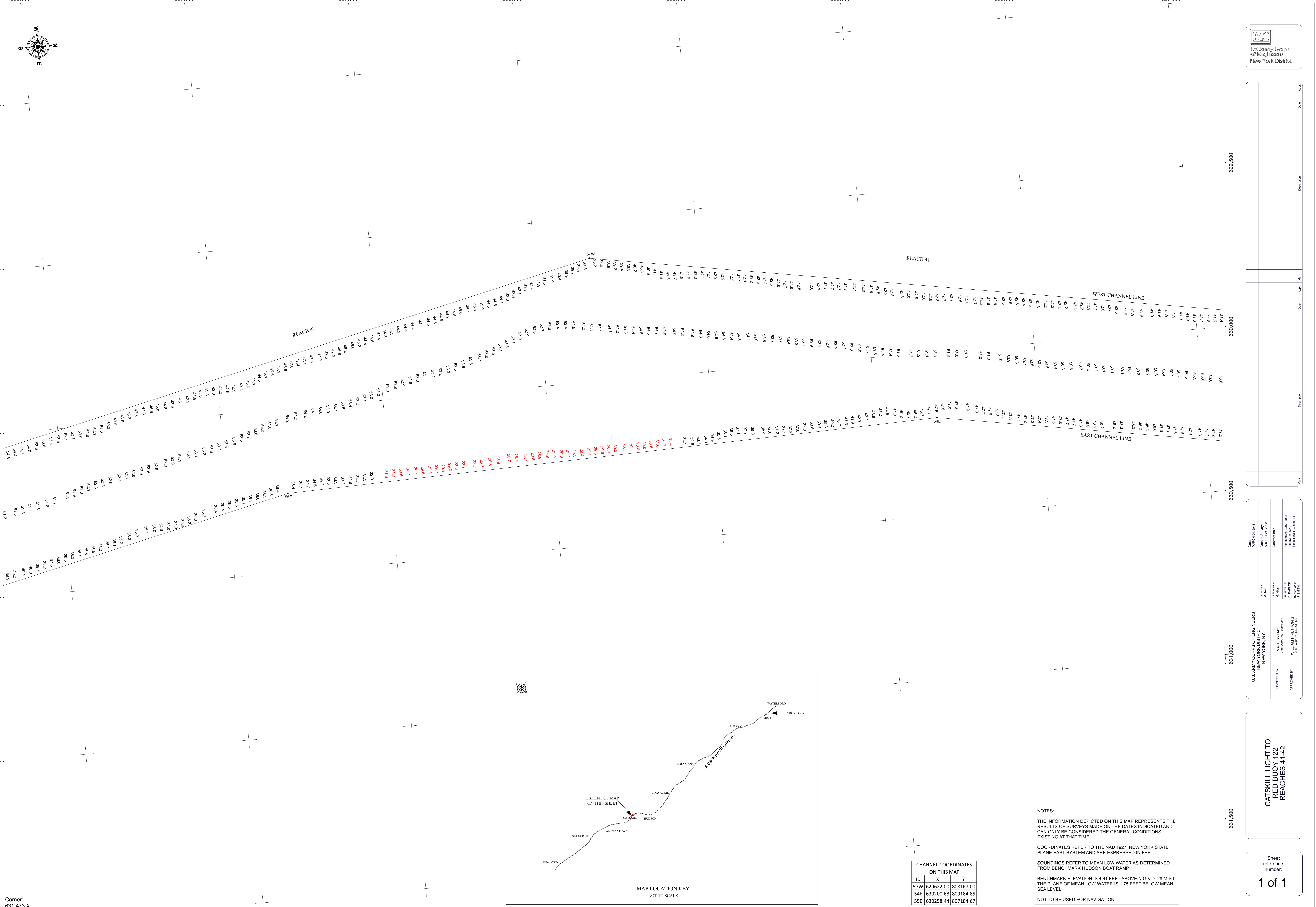
U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	APPROVED BY: WILLIAM F. BERTONIS CHIEF, SURVEY SECTION
DATE OF SURVEY: AUGUST 30, 2012	DATE OF PLOT: AUGUST 30, 2012
DRAWN BY: MUMBY	PROJECT NO.:633195.00/816428.00
SCALE: AS SHOWN	DATE OF PLOT: AUGUST 30, 2012

LIGHT 126 TO BRANDON POINT REACH 38

Sheet reference number:
1 of 1

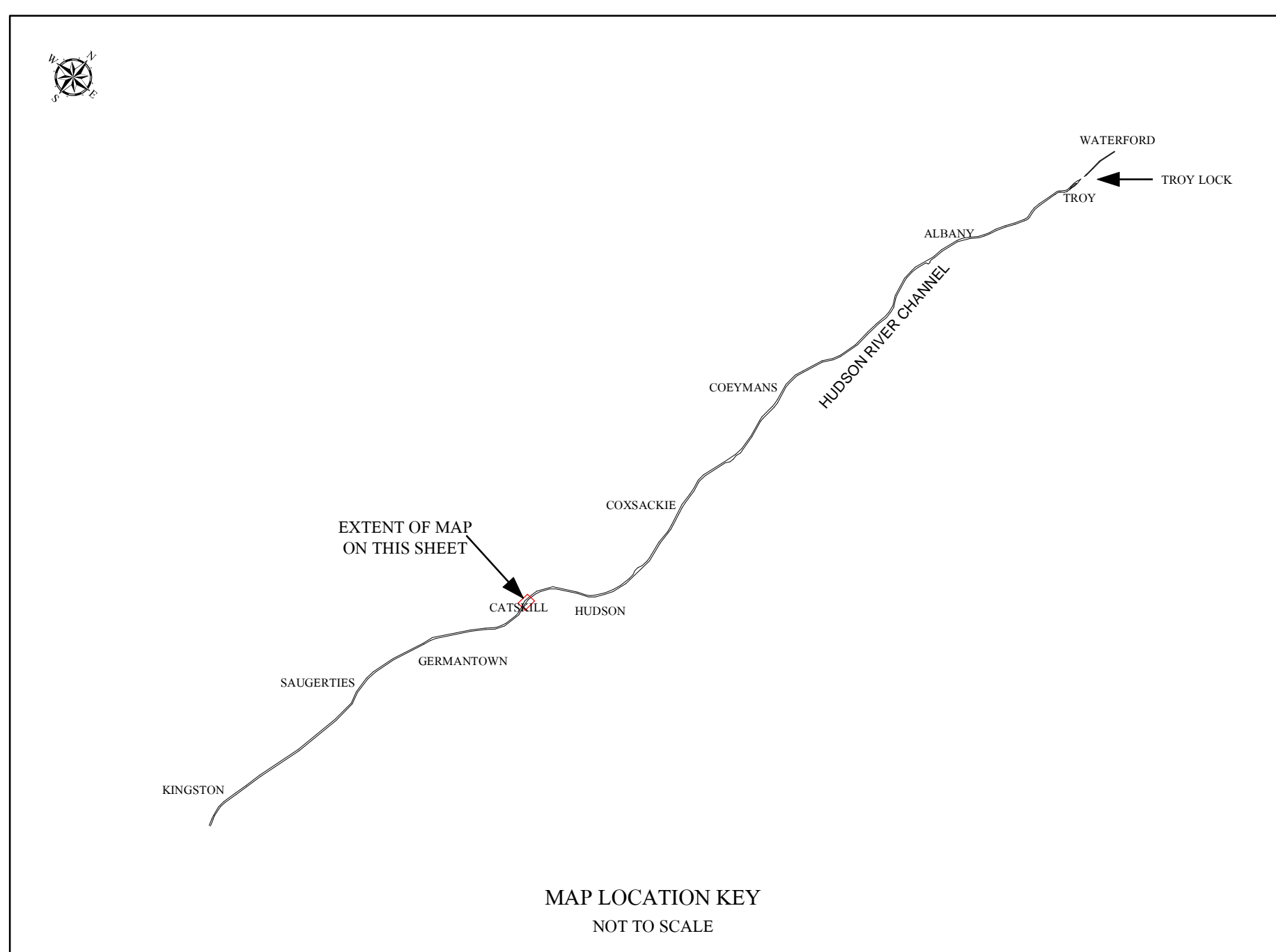


Date	Description	Name	Date	Description	Name



Drawn by: MUMBY Checked by: MUMBY Date of Survey: AUGUST 24, 2012 Scale: HORIZONTAL = 1"=100 FEET	Submitted by: MATTHEW MUMBY Approved by: WILLIAM F. STONE Date of Survey: AUGUST 24, 2012 Scale: HORIZONTAL = 1"=100 FEET
--	--

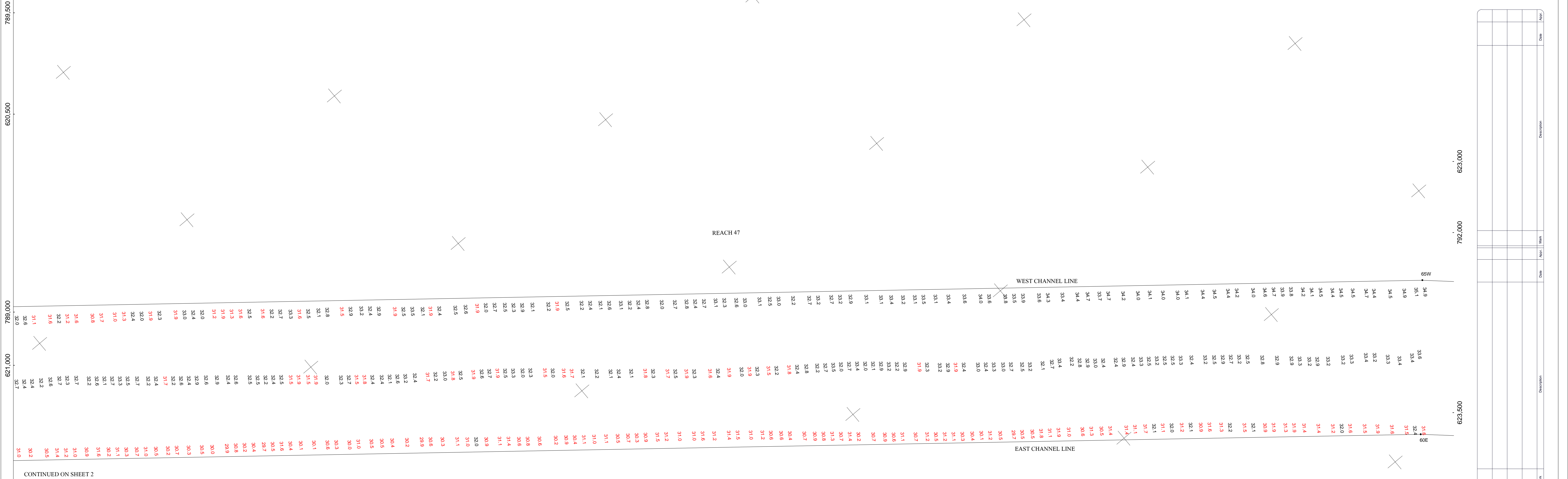
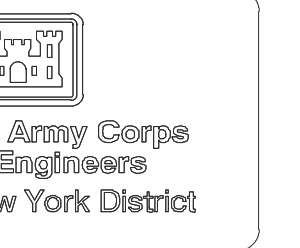
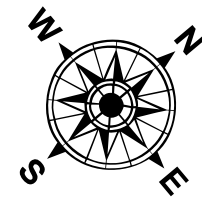
**CATSKILL LIGHT TO
RED BUOY 122
REACHES 41-42**



CHANNEL COORDINATES ON THIS MAP			
ID	X	Y	
57W	629622.00	808167.00	
54E	630200.68	809184.85	
55E	630258.44	807184.67	

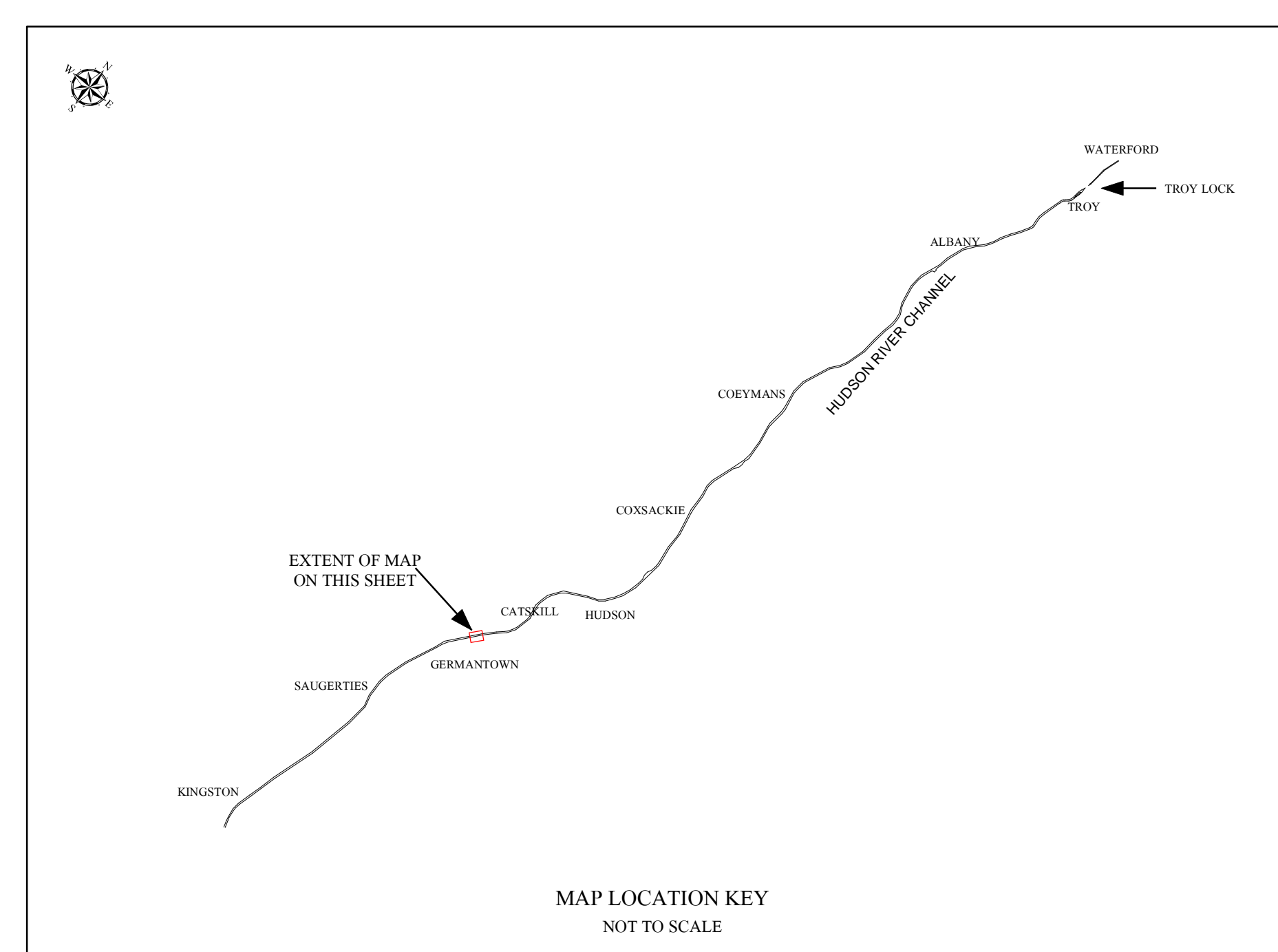
NOTES:
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK HUDSON BOAT RAMP.
 BENCHMARK ELEVATION IS 4.41 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

790,000 620,500 790,500 621,000 791,000 621,500 791,500 622,000 792,000 622,500



Date	Description	Date	Description

CONTINUED ON SHEET 2



ID	X	Y
65W	623184.00	791858.00
60E	623487.86	791597.37

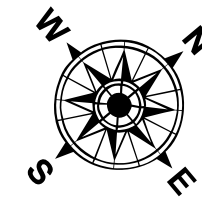
NOTES:
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK LASHER.
 BENCHMARK ELEVATION IS 2.87 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE OF SURVEY: JANUARY 9, 2013	CONTRACT NO.:
SUBMITTED BY: MATHEW J. NAY CORPORATION, TROY, NY	APPROVED BY: WILLIAM F. BRITTONS CHIEF, SURVEY SECTION	
Drawn by: MUNNY	Checked by: D. KINLOCK	Scale: HCH+ = 100 FEET

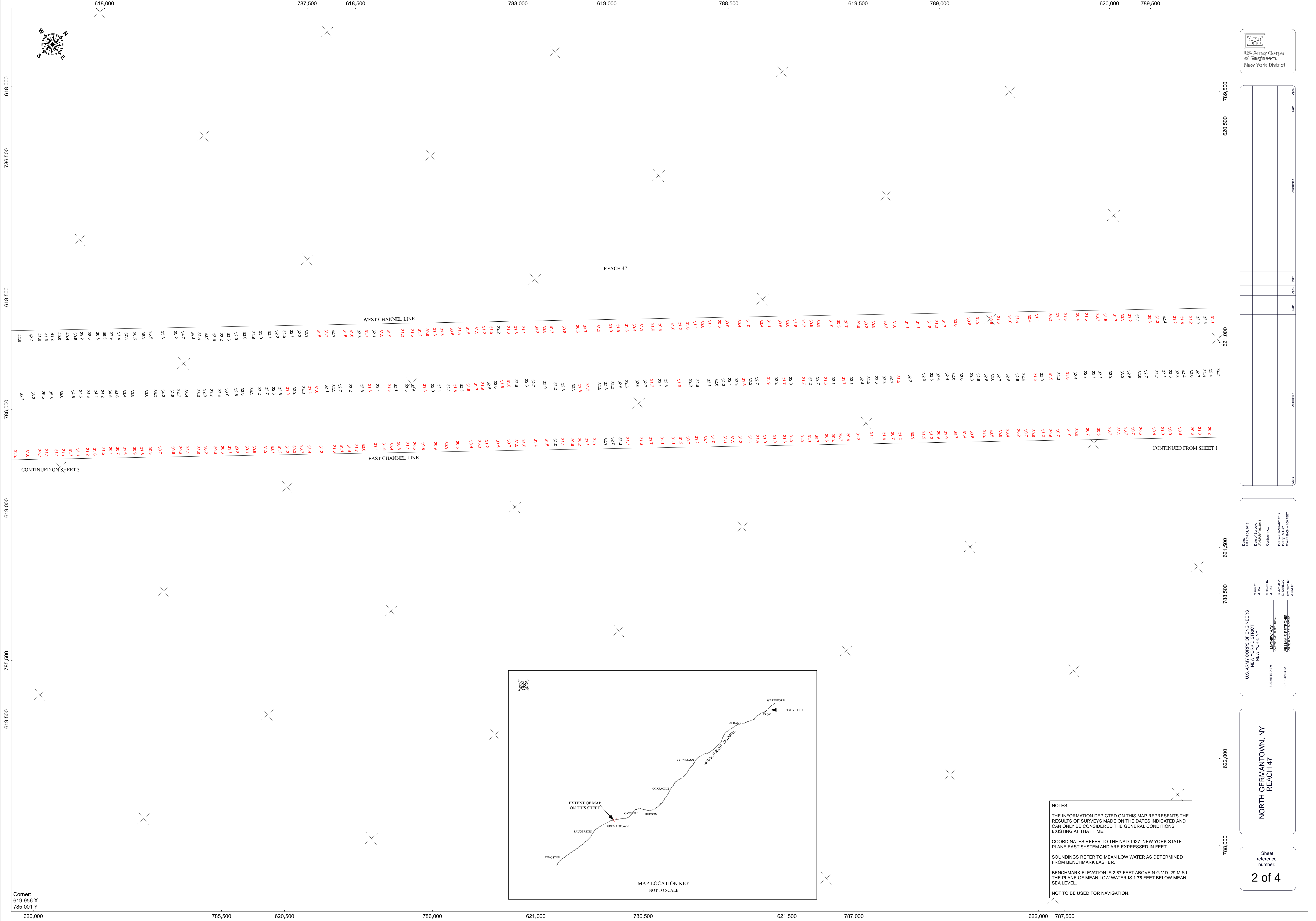
**NORTH GERMENTOWN, NY
REACH 47**

Corner:
622,249 X
787,863 Y

788,000 622,500 788,500 623,000 789,000 623,500 789,500 624,000 790,000 624,500



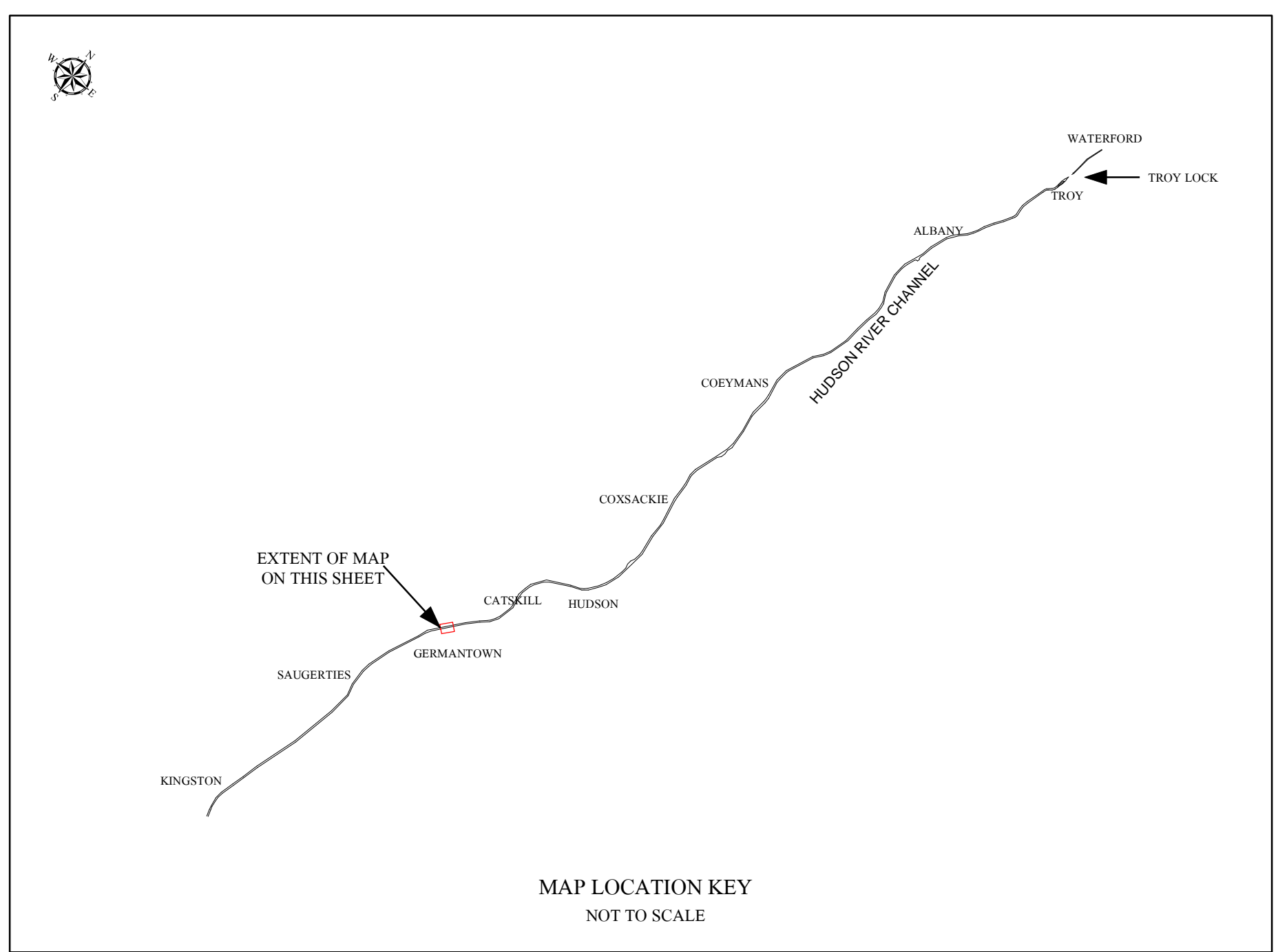
Date	Description



Station	Elevation
31.1	32.2
31.2	32.4
31.3	32.6
31.4	32.8
31.5	33.0
31.6	33.2
31.7	33.4
31.8	33.6
31.9	33.8
32.0	34.0
32.1	34.2
32.2	34.4
32.3	34.6
32.4	34.8
32.5	35.0
32.6	35.2
32.7	35.4
32.8	35.6
32.9	35.8
33.0	36.0
33.1	36.2
33.2	36.4
33.3	36.6
33.4	36.8
33.5	37.0
33.6	37.2
33.7	37.4
33.8	37.6
33.9	37.8
34.0	38.0
34.1	38.2
34.2	38.4
34.3	38.6
34.4	38.8
34.5	39.0
34.6	39.2
34.7	39.4
34.8	39.6
34.9	39.8
35.0	40.0
35.1	40.2
35.2	40.4
35.3	40.6
35.4	40.8
35.5	41.0
35.6	41.2
35.7	41.4
35.8	41.6
35.9	41.8
36.0	42.0
36.1	42.2
36.2	42.4
36.3	42.6
36.4	42.8
36.5	43.0
36.6	43.2
36.7	43.4
36.8	43.6
36.9	43.8
37.0	44.0
37.1	44.2
37.2	44.4
37.3	44.6
37.4	44.8
37.5	45.0
37.6	45.2
37.7	45.4
37.8	45.6
37.9	45.8
38.0	46.0
38.1	46.2
38.2	46.4
38.3	46.6
38.4	46.8
38.5	47.0
38.6	47.2
38.7	47.4
38.8	47.6
38.9	47.8
39.0	48.0
39.1	48.2
39.2	48.4
39.3	48.6
39.4	48.8
39.5	49.0
39.6	49.2
39.7	49.4
39.8	49.6
39.9	49.8
40.0	50.0

CONTINUED FROM SHEET 3

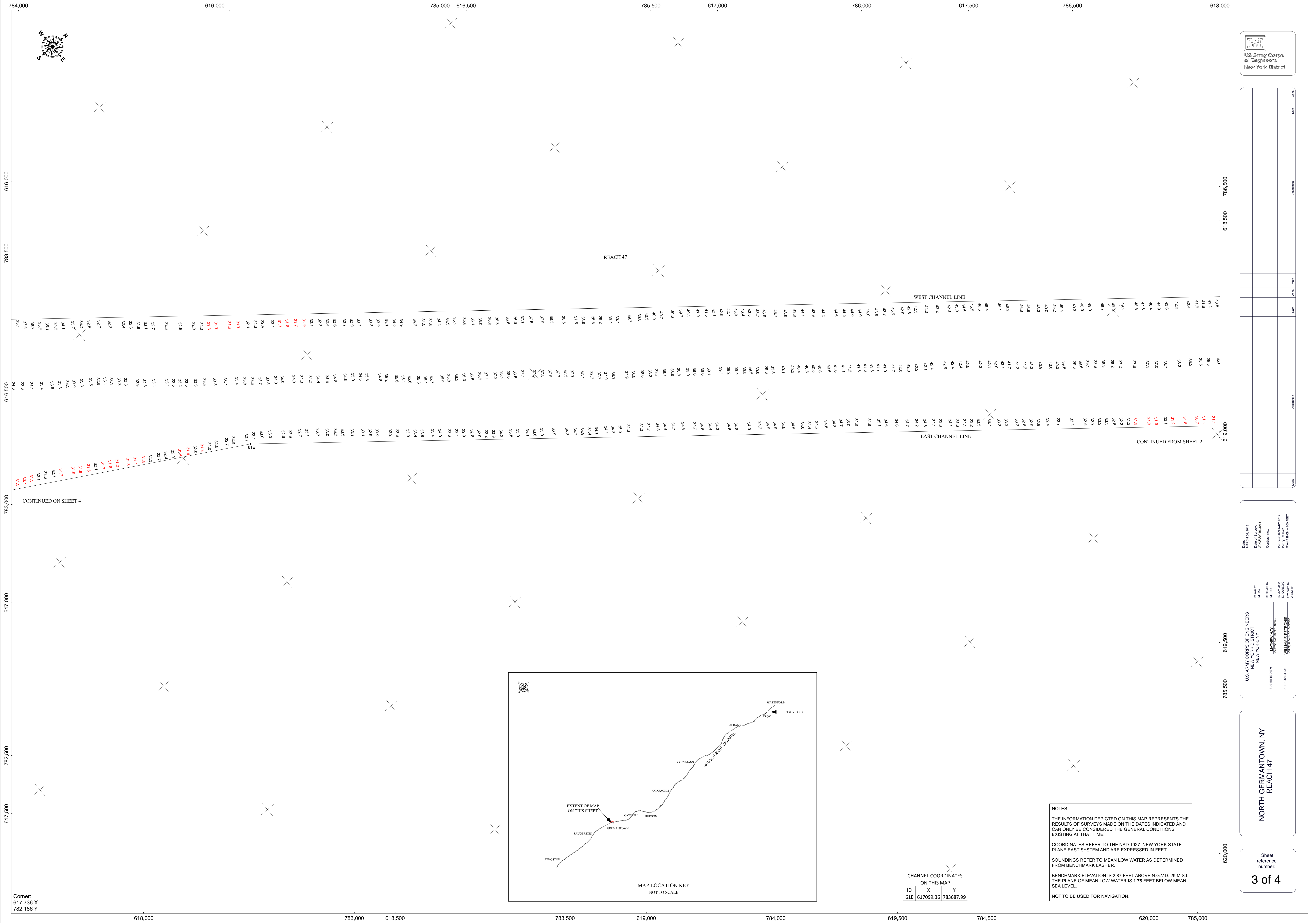
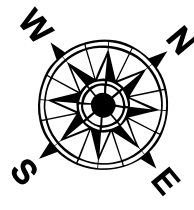
CONTINUED ON SHEET 4



NOTES:
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COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK LASHER.
BENCHMARK ELEVATION IS 2.87 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
NOT TO BE USED FOR NAVIGATION.

Corner:
619,956 X
785,001 Y

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE OF SURVEY: JANUARY 16, 2013	APPROVED BY: WILLIAM F. BRIDGEMAN CHIEF, CIVIL DISTRICT
DRAWN BY: MURPHY	CONVERTED TO: NAD 1927	DATE: JANUARY 2013
CHECKED BY: MURPHY	SCALE: AS SHOWN	



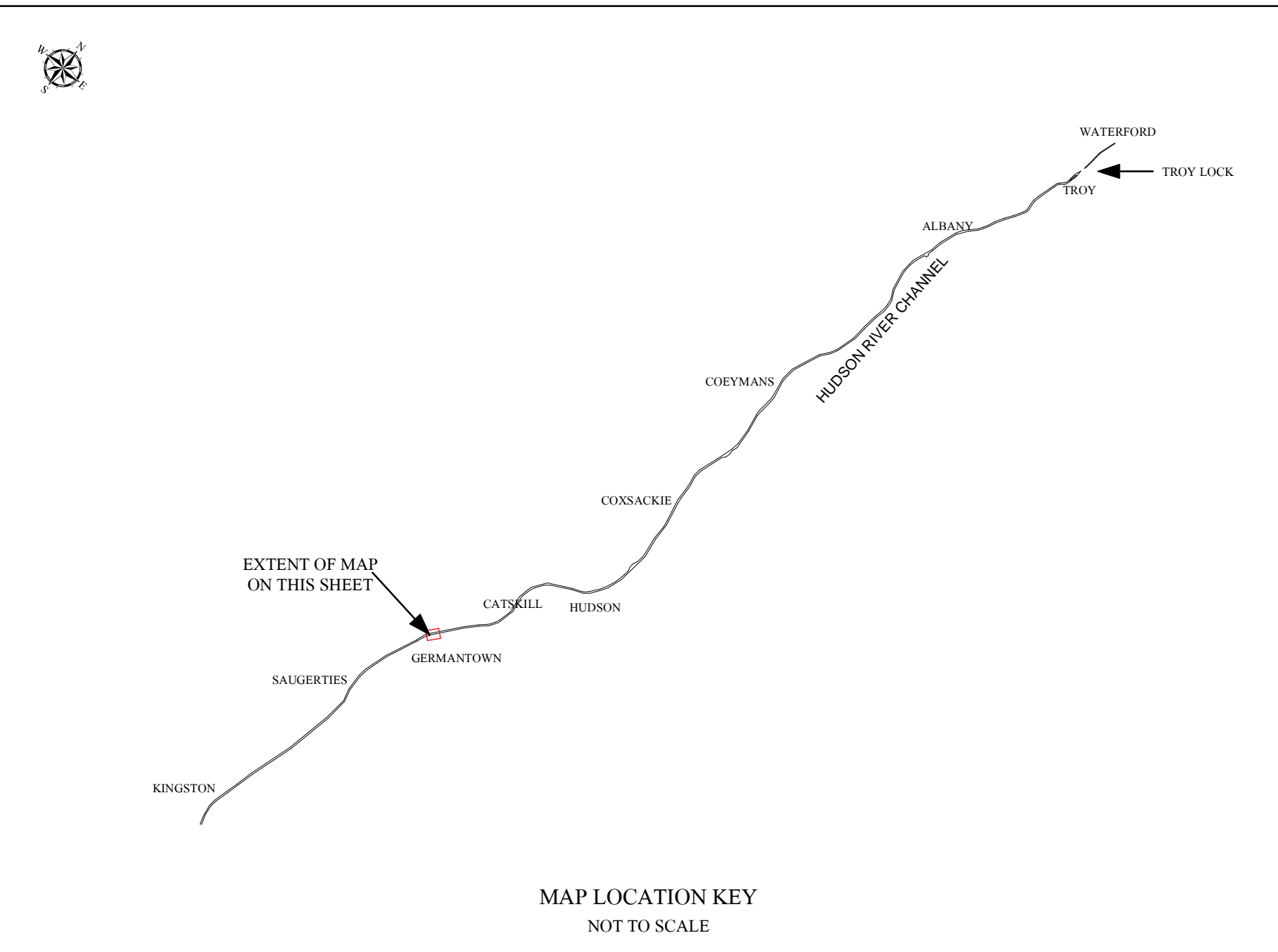
REACH 47

WEST CHANNEL LINE

EAST CHANNEL LINE

CONTINUED FROM SHEET 2

CONTINUED ON SHEET 4



CHANNEL COORDINATES ON THIS MAP			
ID	X	Y	
61E	617099.36	783687.99	

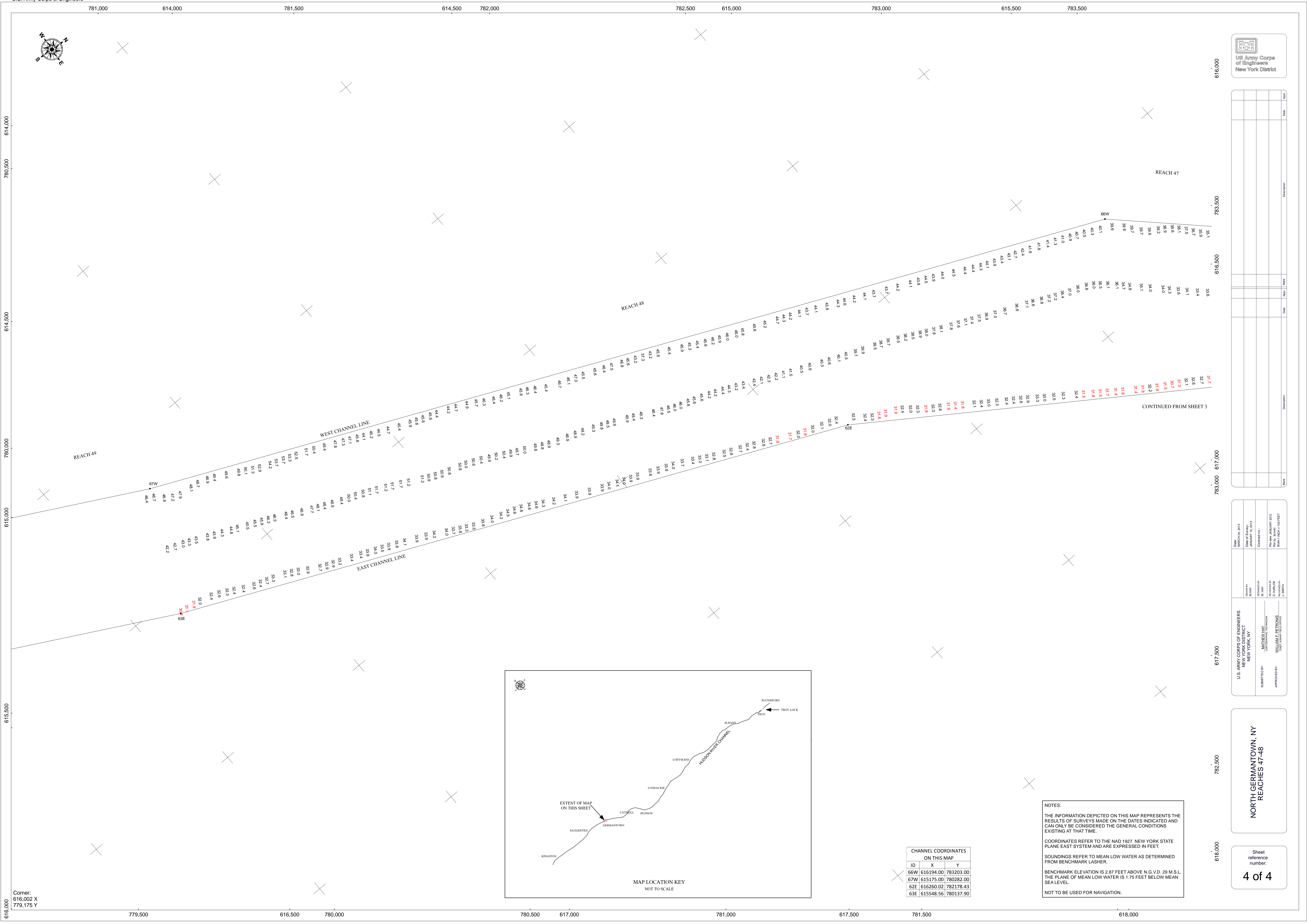
NOTES:
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 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK LASHER.
 BENCHMARK ELEVATION IS 2.87 FEET ABOVE M.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

DATE	DESCRIPTION	BY	CHK'D

DATE: JANUARY 16, 2013	SCALE: 1"=100 FEET
DATE OF SURVEY: JANUARY 16, 2013	PROJECT: NORTH GERMANTOWN, NY
CONTRACT NO.:	PROJECT NO.:
DESIGNED BY: M. J. BROWN	APPROVED BY: M. J. BROWN
DRAWN BY: M. J. BROWN	CHECKED BY: M. J. BROWN

**NORTH GERMANTOWN, NY
REACH 47**

Sheet reference number:
3 of 4

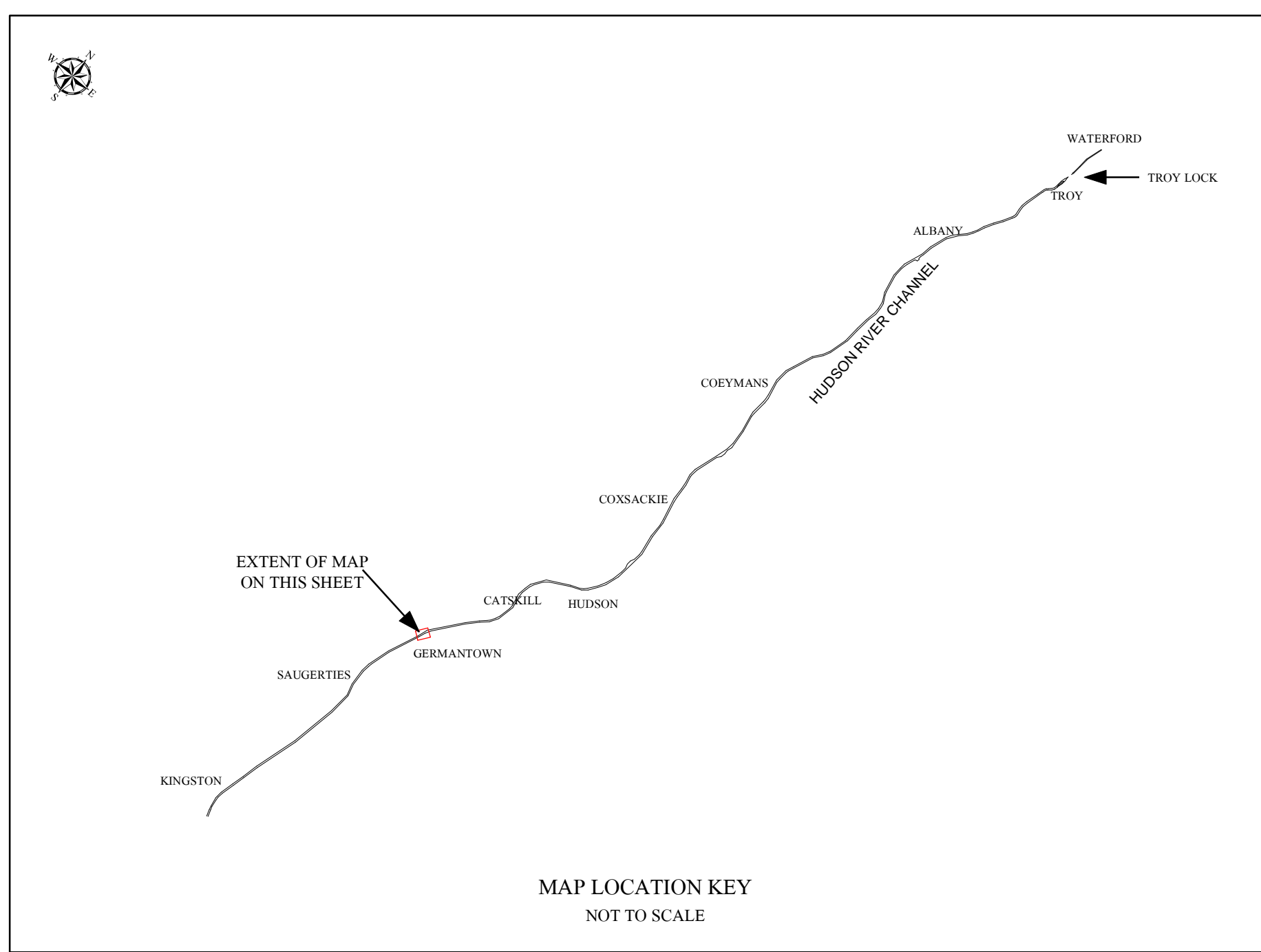


NO.	DATE	DESCRIPTION

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE OF SURVEY: JANUARY 16, 2013	PROJECT NO. / SHEET NO.: 616194.00 / 783203.00
DRAWN BY: MUMBY	CHECKED BY: MUMBY	SCALE: AS SHOWN (1" = 100 FEET)
APPROVED BY: WILLIAM J. BETTONS CHIEF, SURVEY SECTION	DATE OF APPROVAL: JANUARY 23, 2013	PROJECT TITLE: NORTH GERMANTOWN, NY REACHES 47-48

**NORTH GERMANTOWN, NY
REACHES 47-48**

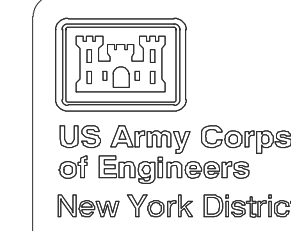
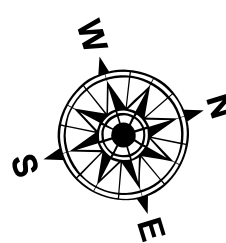
Sheet reference number:
4 of 4



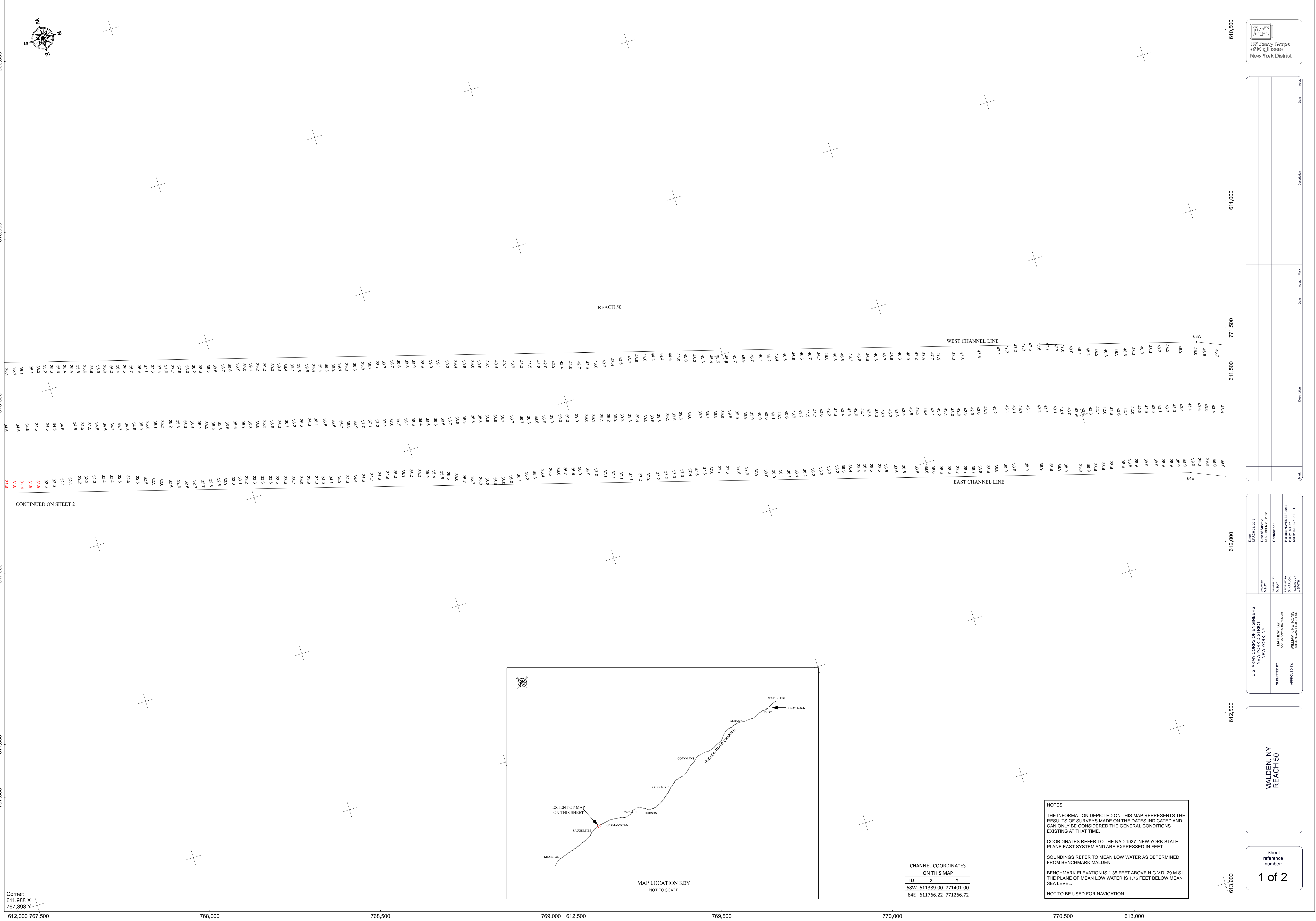
ID	X	Y
66W	616194.00	783203.00
67W	615175.00	780282.00
62E	616260.02	782178.43
63E	615548.56	780137.90

NOTES:
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 SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK LASHER.
 BENCHMARK ELEVATION IS 2.87 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

Corner:
616,002 X
779,175 Y



Date	Description	Date	Description



CONTINUED ON SHEET 2

Corner:
611,988 X
767,398 Y
612,000 767,500

CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
68W	611389.00	771401.00
64E	611766.22	771266.72

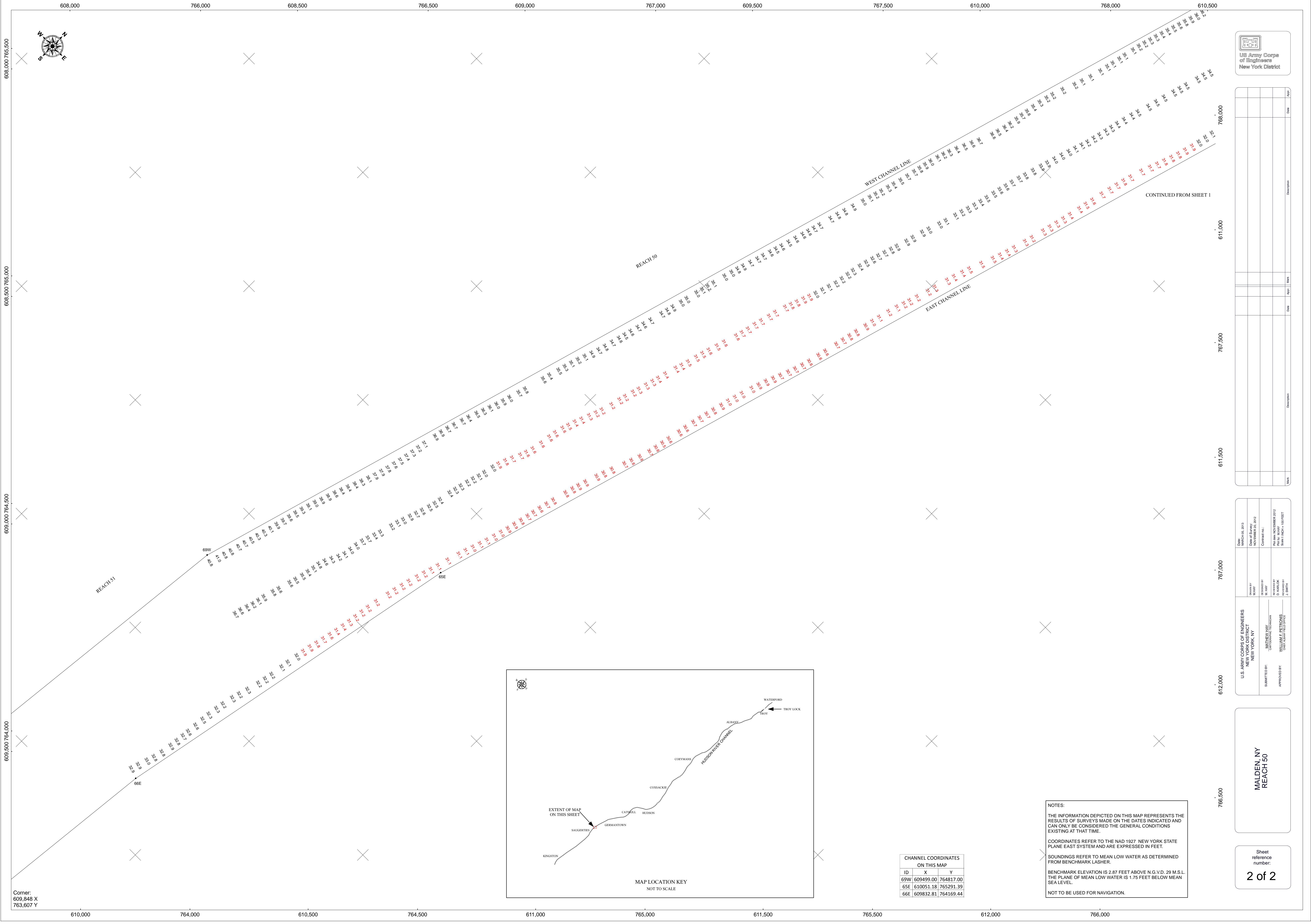
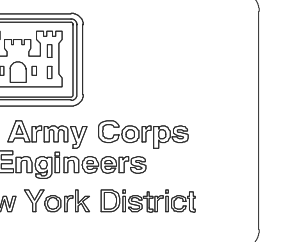
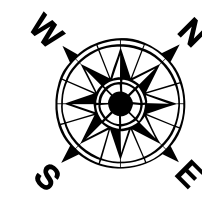
NOTES:
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK MALDEN.
 BENCHMARK ELEVATION IS 1.35 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DESIGNED BY: MURPHY	DRAWN BY: MURPHY	DATE OF SURVEY: MARCH 06, 2013	DATE OF REVISION: NOVEMBER 20, 2012
	APPROVED BY: WILLIAM E. STONING CHIEF, MALDEN DISTRICT	APPROVED BY: D. MULLOCH DISTRICT ENGINEER	APPROVED BY: M. J. JAMES SUPERVISOR	APPROVED BY: M. J. JAMES SUPERVISOR

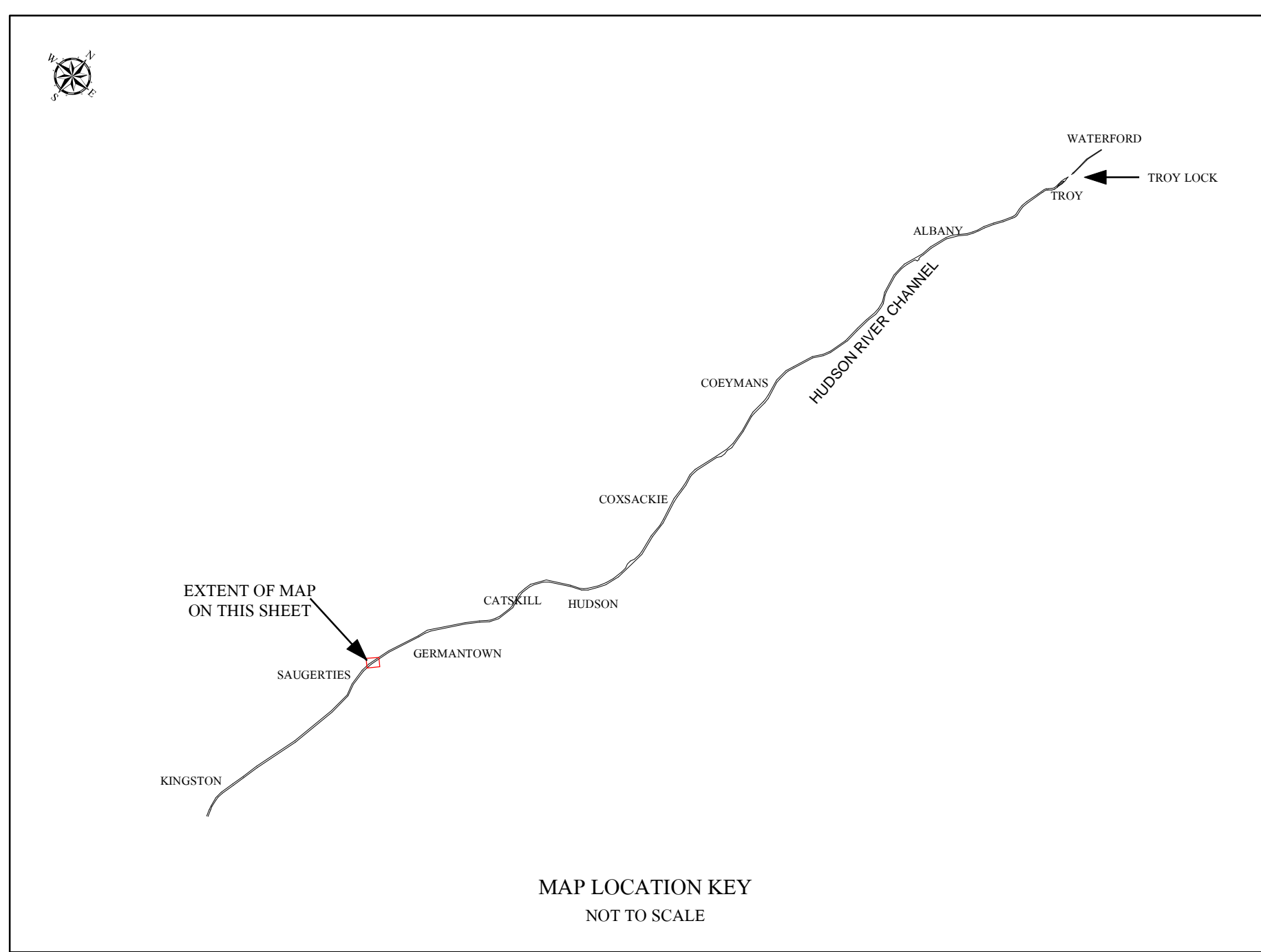
MALDEN, NY
REACH 50

Sheet reference number:
1 of 2

612,000 612,500 613,000



Corner:
609.848 X
763.607 Y



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
69W	609499.00	764817.00
65E	610051.18	765291.39
66E	609832.81	764169.44

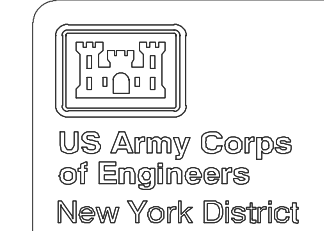
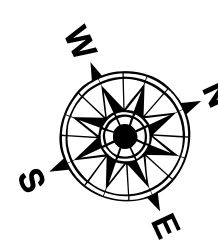
NOTES:
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NOT TO BE USED FOR NAVIGATION.

Date	Description

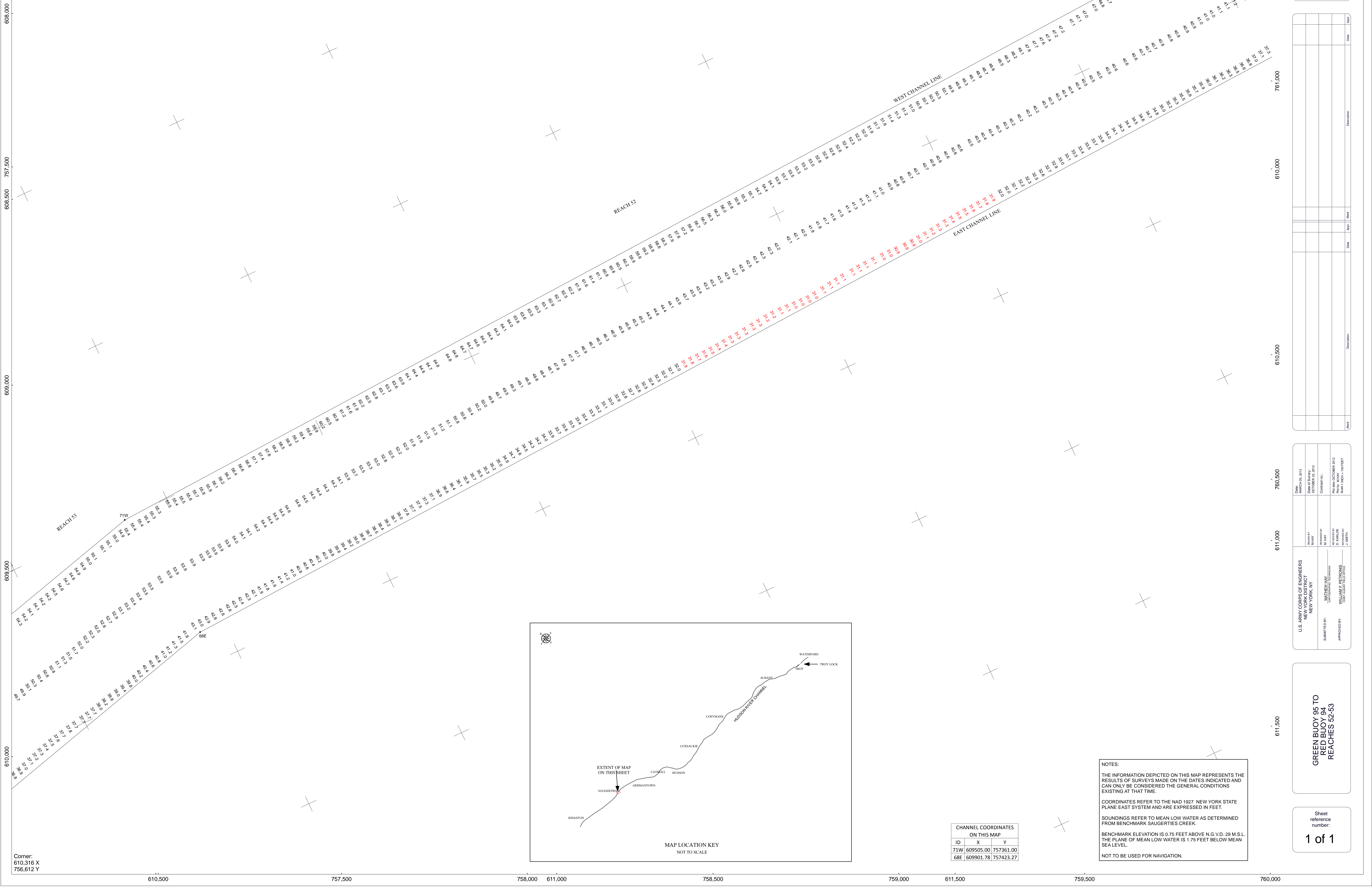
U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: 10/26/2012 DRAWN BY: MUMBY CHECKED BY: MUMBY DATE: 10/26/2012 SCALE: 1"=100'
SUBMITTED BY: MATTHEW J. WILSON	DATE: 10/26/2012
APPROVED BY: WILLIAM F. BRIDGEMAN	DATE: 10/26/2012

**MAIDEN, NY
REACH 50**

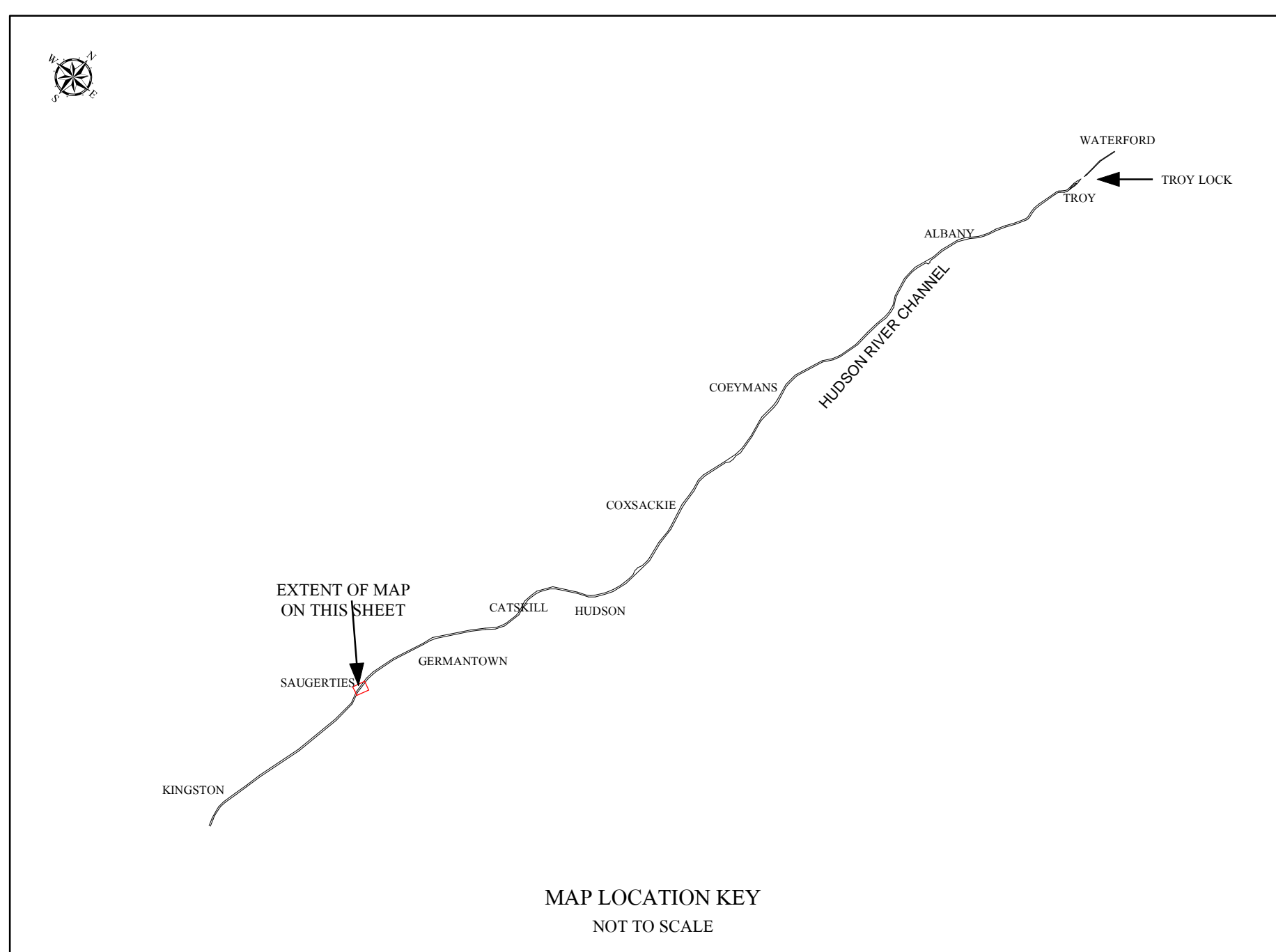
Sheet reference number:
2 of 2



U.S. Army Corps of Engineers
New York District



Corner:
610.316 X
756.612 Y



MAP LOCATION KEY
NOT TO SCALE

CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
71W	609505.00	757361.00
68E	609901.78	757423.27

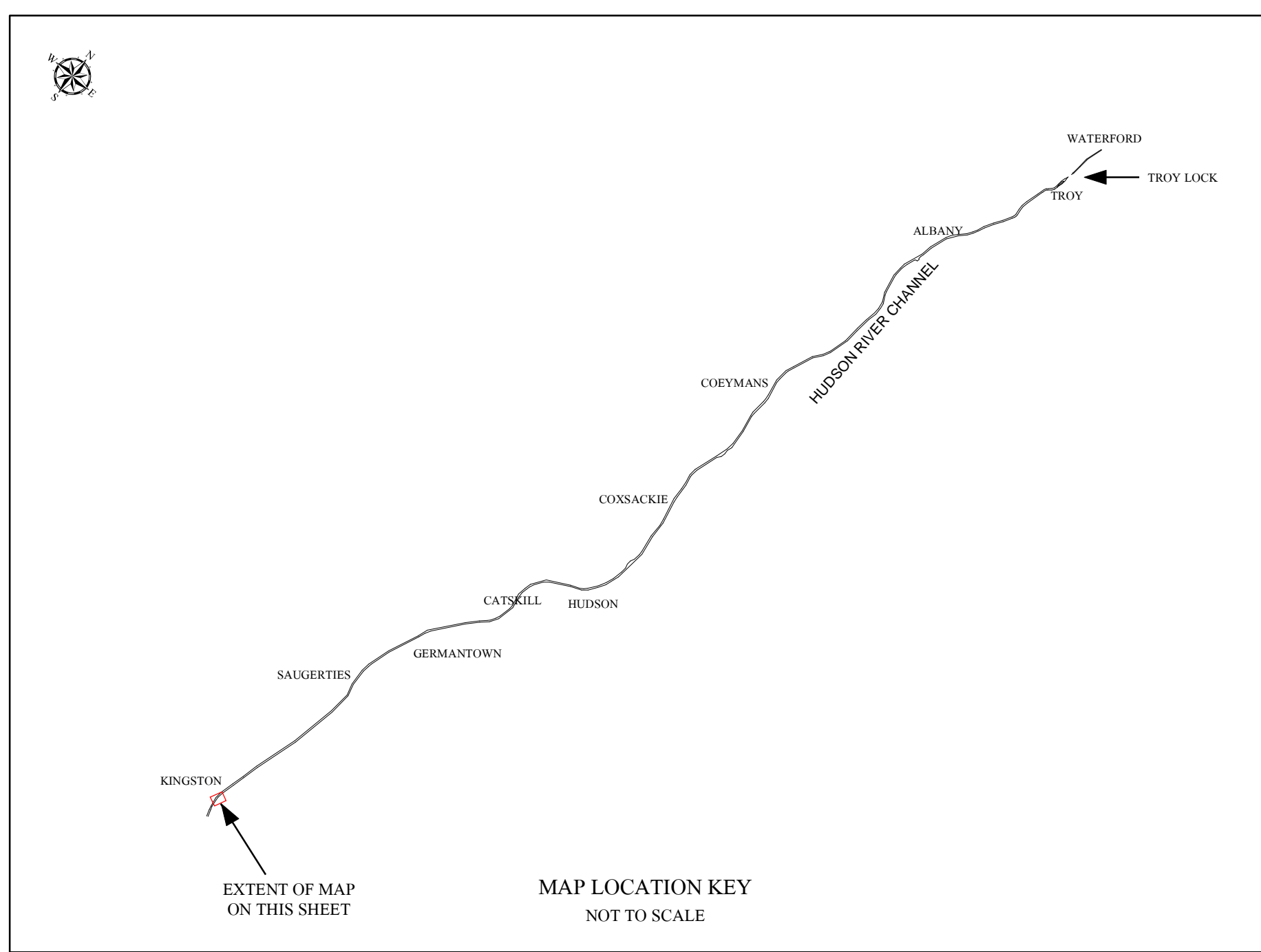
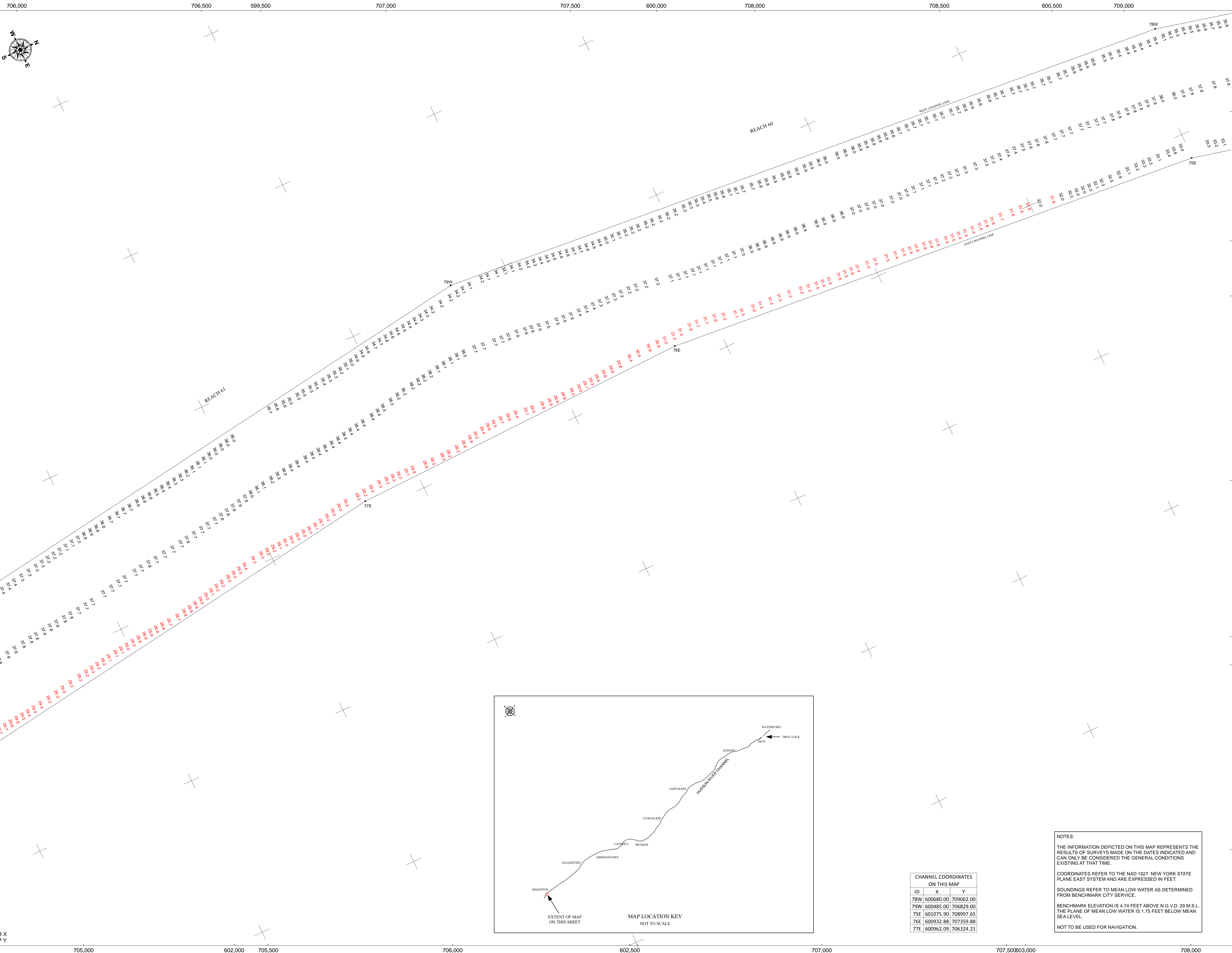
NOTES:
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 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK SAUGERTIES CREEK.
 BENCHMARK ELEVATION IS 0.75 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

Description		Date	Scale

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: 10/20/13 DATE OF SURVEY: OCTOBER 20, 2012
SUBMITTED BY: MURPHY	CONTRACT NO.:
APPROVED BY: MATTHEW J. WYATT CHIEF, CIVIL ENGINEERING SECTION	SCALE: 1"=100 FEET PROJECT: ALBANY TROY LOCK
APPROVED BY: WILLIAM F. BRIDGEMAN CHIEF, NAVY RELATIONS	

GREEN BUOY 95 TO RED BUOY 94 REACHES 52-53

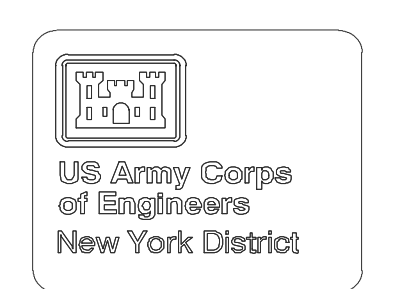
Sheet reference number:
1 of 1



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
78W	600680.00	709062.00
79W	600485.00	706829.00
75E	601075.90	708997.65
76E	600932.88	707359.88
77E	600962.09	706324.21

NOTES:
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 COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.
 SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK CITY SERVICE.
 BENCHMARK ELEVATION IS 4.74 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.
 NOT TO BE USED FOR NAVIGATION.

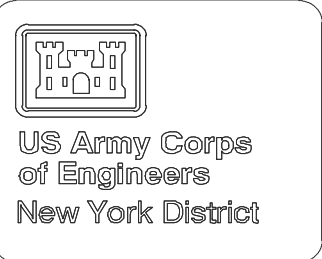
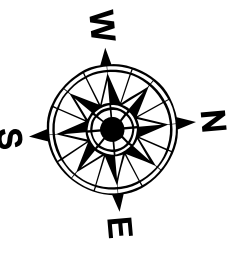
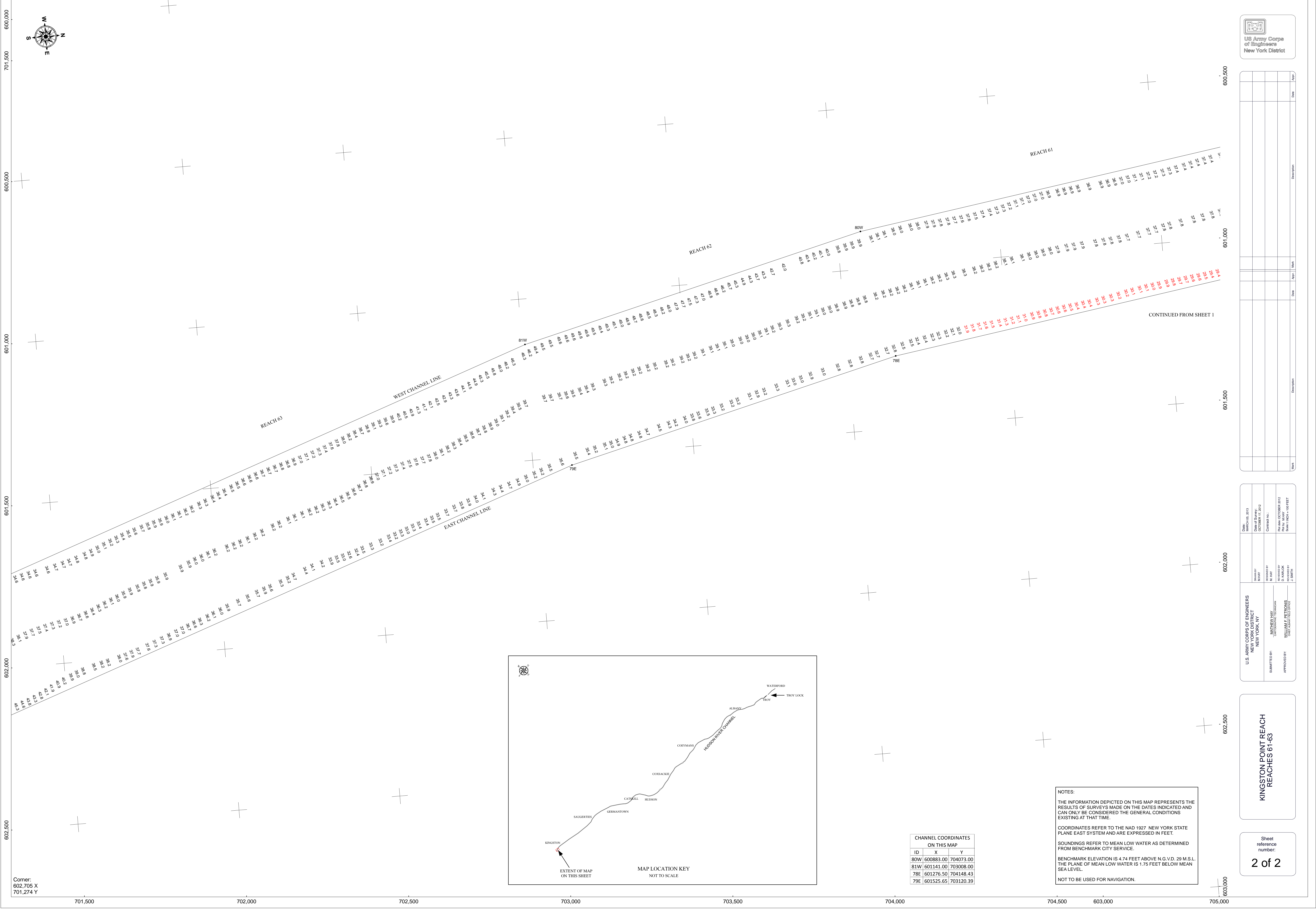
Corner:
 601,678 X
 704,717 Y



Description	Date	Drawn	Checked	Scale

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE OF SURVEY: OCTOBER 17, 2012	CORRECTED NO.: NONE
SUBMITTED BY: MATTHEW J. WYATT CHIEF OF DISTRICT SURVEYING	DRAWN BY: D. KNECK	CHECKED BY: W. L. BROWN
APPROVED BY: W. L. BROWN CHIEF, DISTRICT SURVEYING	DATE OF APPROVAL: OCTOBER 17, 2012	SCALE: NONE (NAD) = 100 FEET

**KINGSTON POINT REACH
 REACHES 60-61**

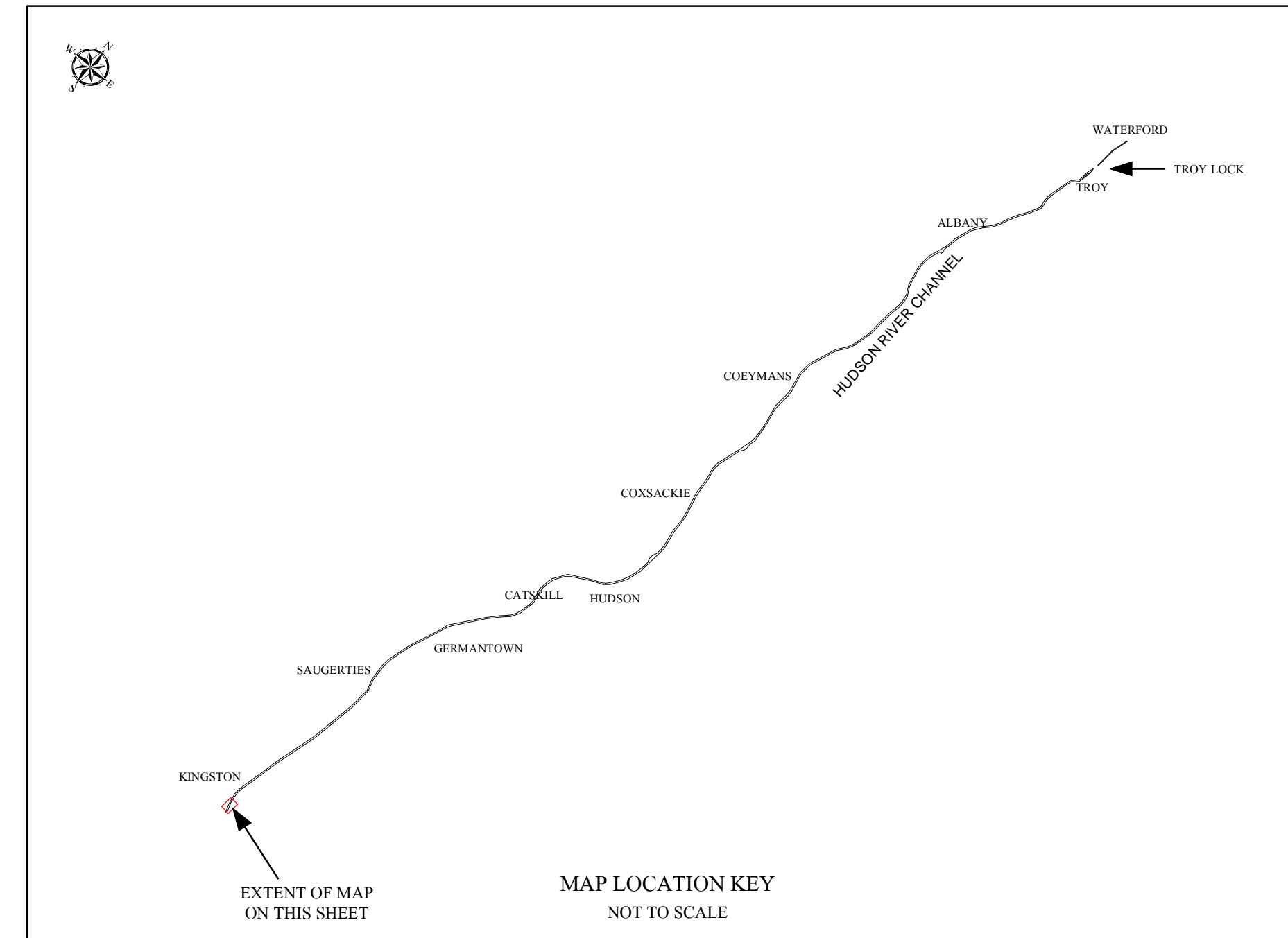


ID	Description	Date	Drawn	Checked	Max

U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT NEW YORK, NY	DATE: 10/20/2012 DATE OF SURVEY: OCTOBER 17, 2012	DRAWN BY: MURPHY CHECKED BY: BLUMBERG	PROJECT NO.: 602120.00 SHEET NO.: 2 OF 2 SCALE: HORIZONTAL = 1"=100 FEET
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KINGSTON POINT REACH
REACHES 61-63

Sheet reference number:
2 of 2



CHANNEL COORDINATES ON THIS MAP		
ID	X	Y
80W	600883.00	704073.00
81W	601141.00	703008.00
78E	601276.50	704148.43
79E	601525.65	703120.39

NOTES:

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

COORDINATES REFER TO THE NAD 1927 NEW YORK STATE PLANE EAST SYSTEM AND ARE EXPRESSED IN FEET.

SOUNDINGS REFER TO MEAN LOW WATER AS DETERMINED FROM BENCHMARK CITY SERVICE.

BENCHMARK ELEVATION IS 4.74 FEET ABOVE N.G.V.D. 29 M.S.L. THE PLANE OF MEAN LOW WATER IS 1.75 FEET BELOW MEAN SEA LEVEL.

NOT TO BE USED FOR NAVIGATION.

Corner:
602,705 X
701,274 Y