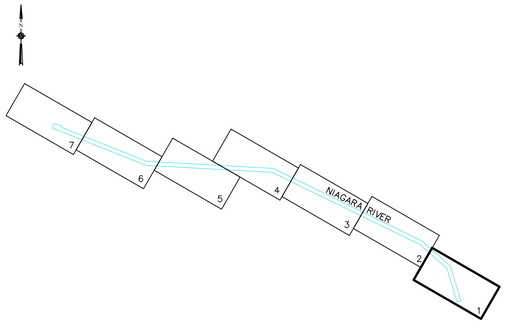

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

- DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
- DEPTHS AT OR BELOW PROJECT DEPTH
- XX.X PROJECT DEPTH

LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
417	CHANNEL CORNER
H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BUOY
N	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
Oc	OCCULTING LIGHT
Iso	EQUAL INTERVAL
AL	ALTERNATING
Q	QUICK (FLASHING)
S	LIGHT CYCLE SECONDS

SITE SPECIFIC NOTES:

1. PROJECT DEPTHS AND SOUNDINGS ARE REFERRED TO IGLD85 LOW WATER DATUM STEP AS SHOWN.
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   SONAR HEAD: 200 KHZ, RESON T50 MULTIBEAM
   1.0 DEGREE BEAMS 160 DEGREE ARC
   HEAVE PITCH AND ROLL; APPLANIX POS–MV VER. 5
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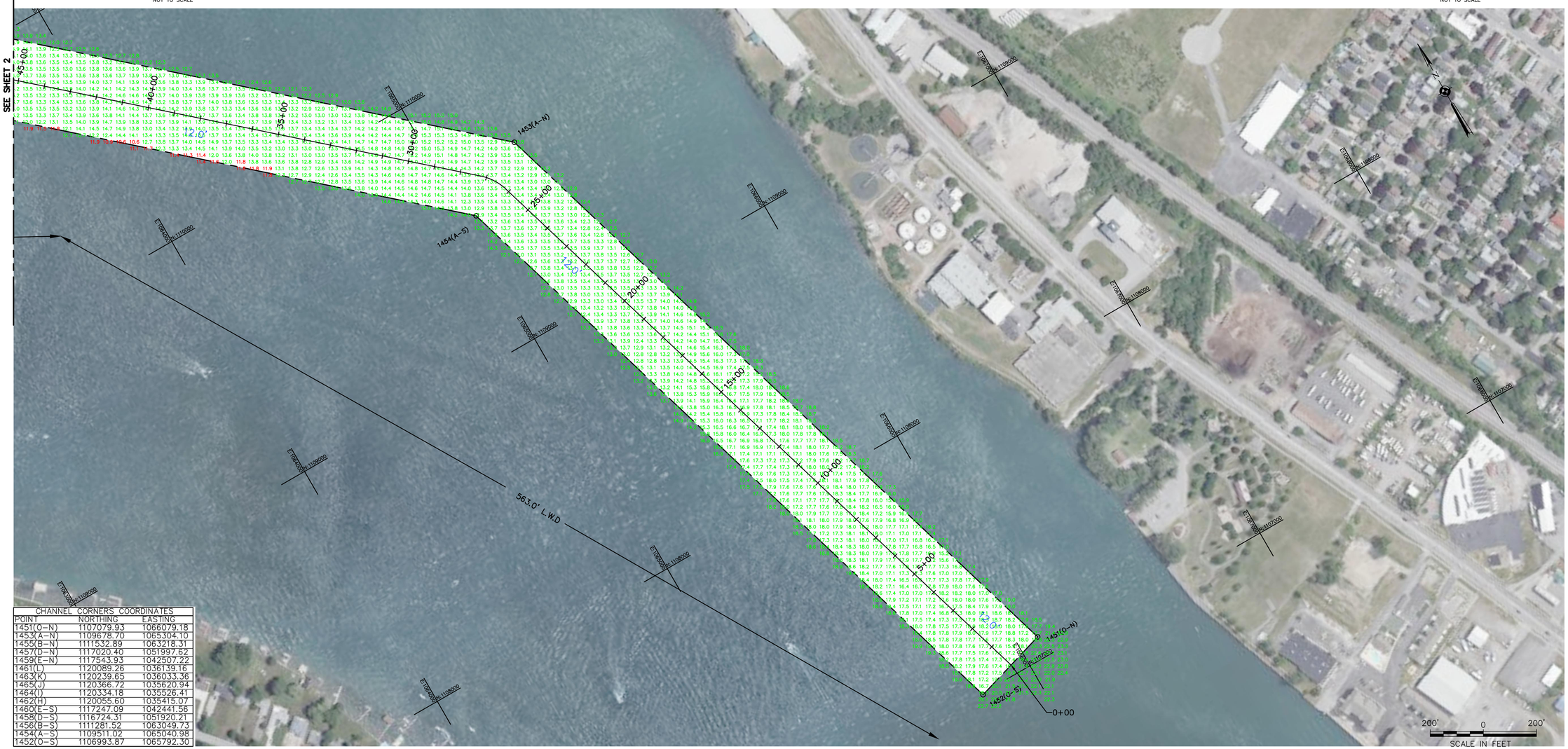
VICINITY MAP
"NOT TO SCALE"



CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
1451(O–N)	1107079.93	1066079.18
1453(A–N)	1109678.70	1065304.10
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1458(D–S)	1116724.31	1051920.21
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1454(A–S)	1109511.02	1065040.98
1452(O–S)	1106993.87	1065792.30

US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

** COPY OF SIGNED ORIGINAL **

Drawn by: KPL
Checked by: ACK
Reviewed by:
Roman H. Figler III PLS
Chief, Survey Section
Approved by:
Adam W. Hamm
Chief, NY/PA Navigation and Maintenance Section
Date: August 4, 2021

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

NIAGARA RIVER, NY

PROJECT CONDITIONS SOUNDINGS 2021

SCALE: 1"=200'

Sheet reference number
VH–101

Sheet 1 of 7

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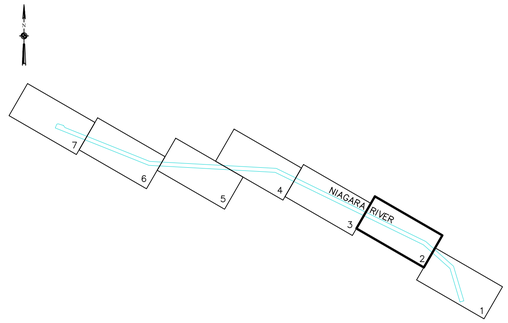

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
	DEPTHS AT OR BELOW PROJECT DEPTH
XX.X	PROJECT DEPTH

LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
417	CHANNEL CORNER
H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BUOY
N	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
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AL	ALTERNATING
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SITE SPECIFIC NOTES:

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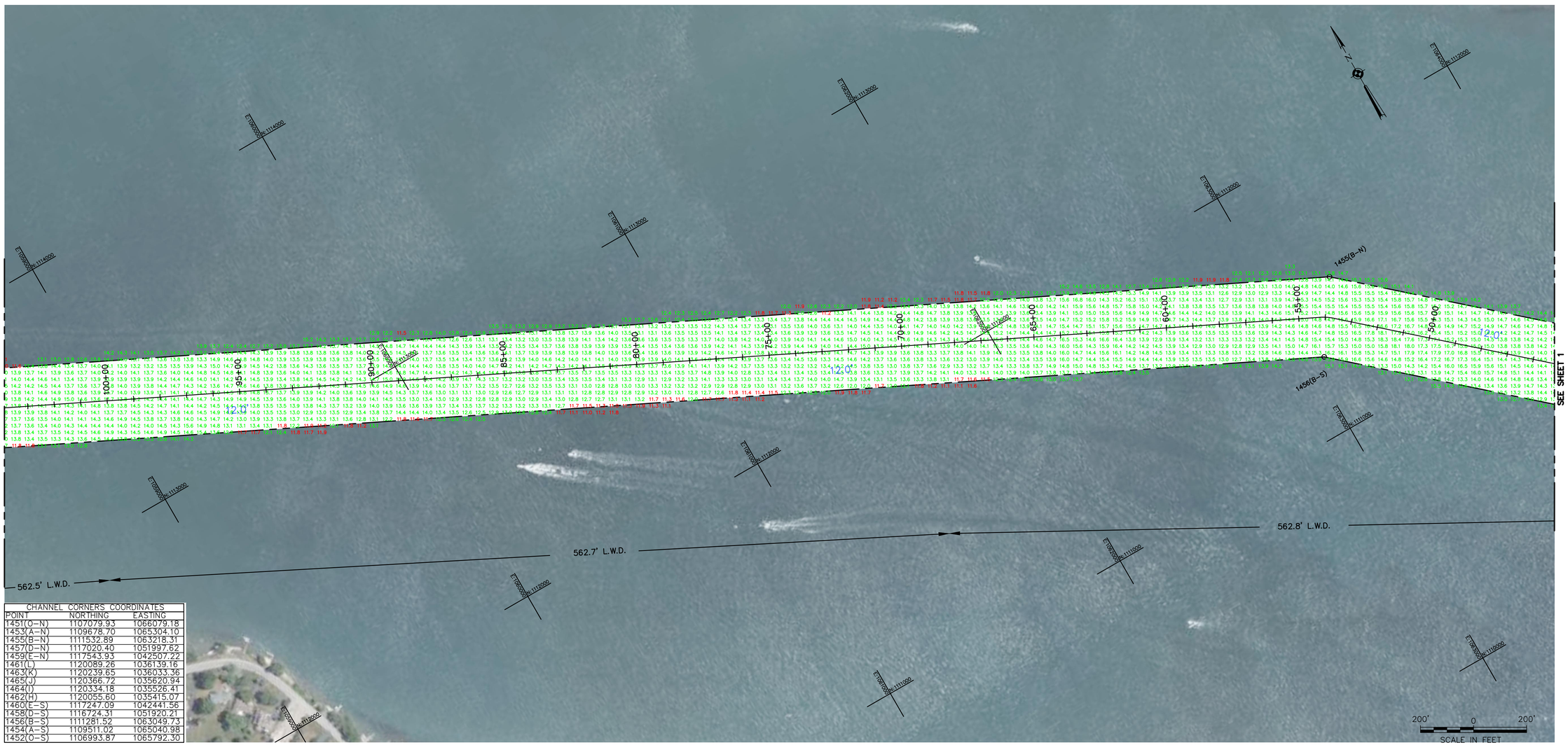
VICINITY MAP
"NOT TO SCALE"



CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
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1452(O–S)	1106993.87	1065792.30

US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

** COPY OF SIGNED ORIGINAL **

Drawn by: KPL
Checked by: ACK
Reviewed by: Roman H. Figler III PLS
Chief, Survey Section
Approved by: Adam W. Hamm
Date: August 4, 2021
Chief, NY/PA Navigation and Maintenance Section

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

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NIAGARA RIVER, NY

PROJECT CONDITIONS SOUNDINGS 2021

SCALE: 1"=200'

Sheet reference number
VH–102
Sheet 2 of 7

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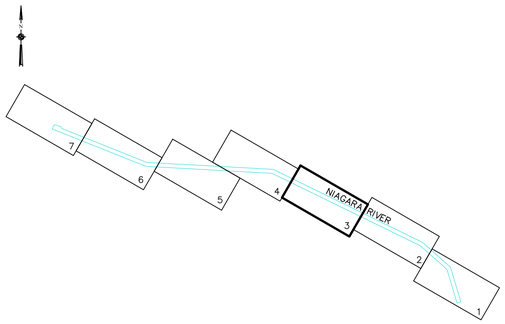

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

- DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
- DEPTHS AT OR BELOW PROJECT DEPTH
- XX.X PROJECT DEPTH

LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
417	CHANNEL CORNER
H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BUOY
N	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
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W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
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FL	FLASHING LIGHT
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Oc	OCCULTING LIGHT
Iso	EQUAL INTERVAL
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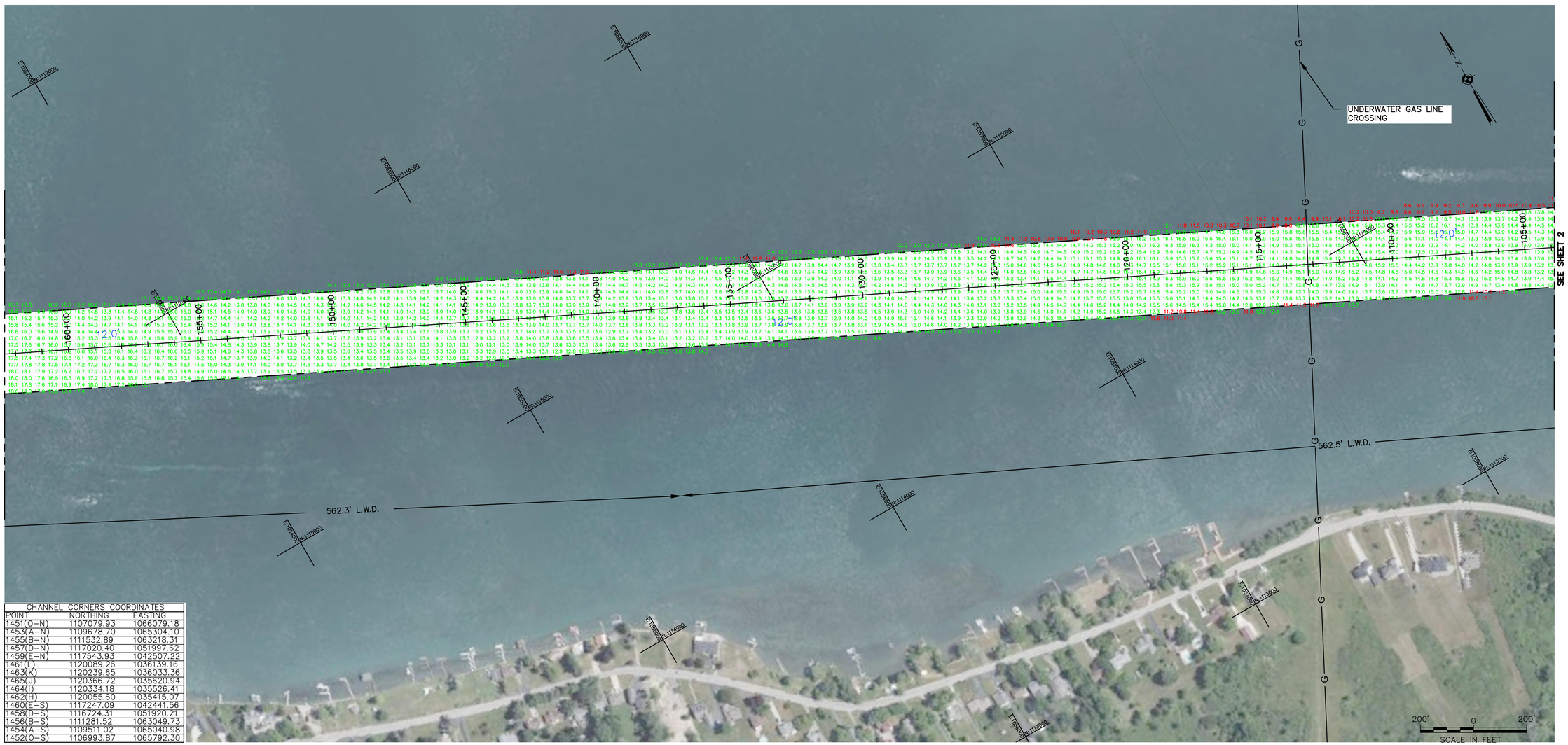
VICINITY MAP
"NOT TO SCALE"



CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
1451(O–N)	1107079.93	1066079.18
1453(A–N)	1109678.70	1065304.10
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1452(O–S)	1106993.87	1065792.30

US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

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Drawn by: KPL
Checked by: ACK
Reviewed by:
Roman H. Figler III PLS
Chief, Survey Section
Approved by:
Adam W. Hamm
Chief, NY/PA Navigation and Maintenance Section
Date: August 4, 2021

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U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

NIAGARA RIVER, NY

PROJECT CONDITIONS SOUNDINGS 2021

SCALE: 1"=200'

Sheet reference number
VH–103
Sheet 3 of 7

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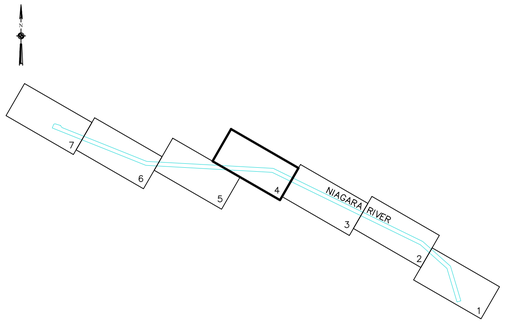

SOUNDING COLOR LEGEND

- DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
- DEPTHS AT OR BELOW PROJECT DEPTH
- XX.X PROJECT DEPTH

LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
⊙ 417	CHANNEL CORNER
◎ H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
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C	CAN BUOY
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VICINITY MAP
"NOT TO SCALE"

SHEET INDEX
"NOT TO SCALE"

CHANNEL CORNERS COORDINATES

POINT	NORTHING	EASTING
1451(O–N)	1107079.93	1066079.18
1453(A–N)	1109678.70	1065304.10
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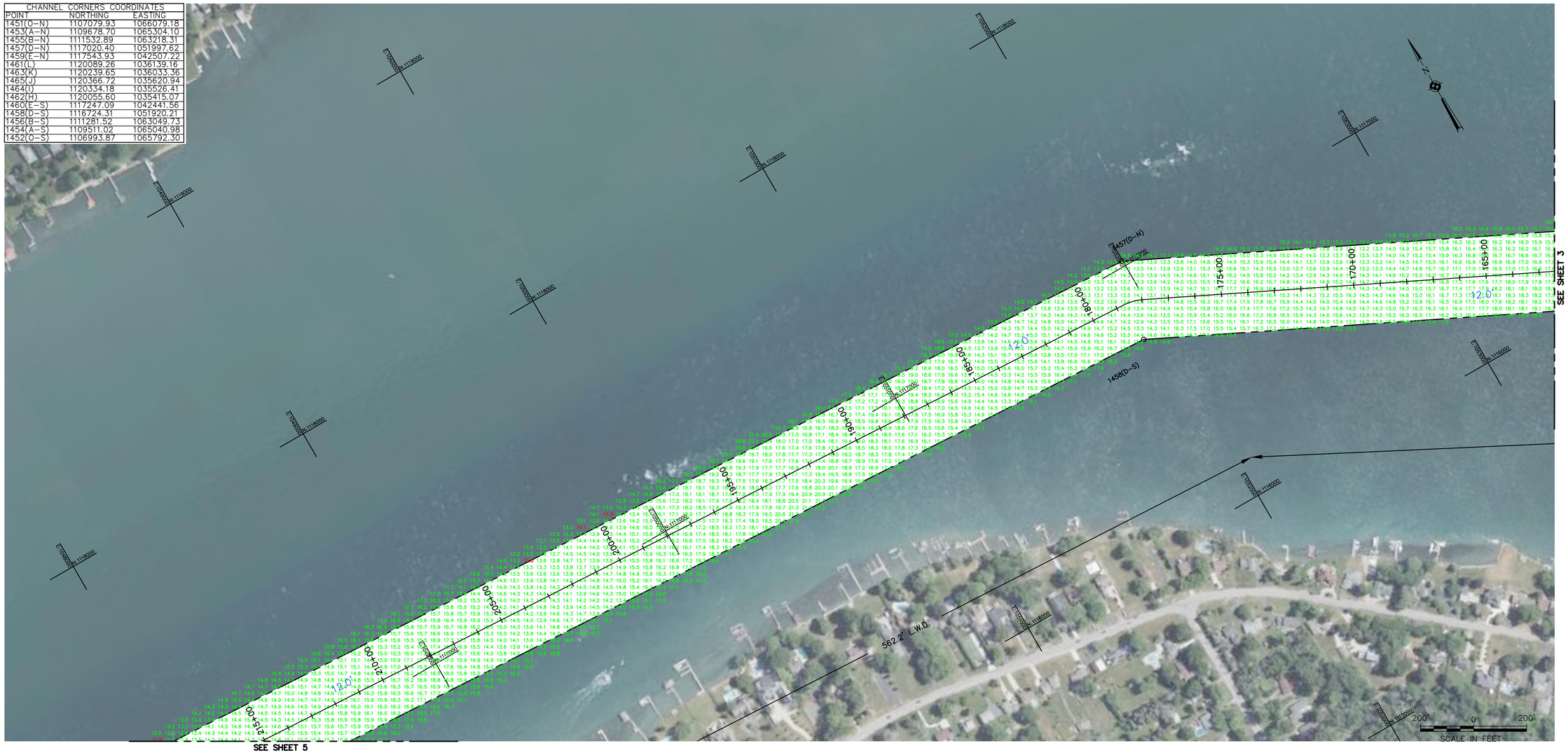

US Army Corps of Engineers
Buffalo District

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Checked by: ACK
Reviewed by: Roman H. Figler III PLS, Chief, Survey Section
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U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

NIAGARA RIVER, NY

PROJECT CONDITIONS SOUNDINGS 2021

SCALE: 1"=200'

Sheet reference number
VH–104
Sheet 4 of 7

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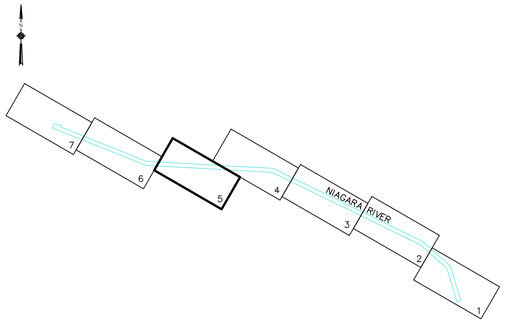

SOUNDING COLOR LEGEND

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LEGEND OF SYMBOLS

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VICINITY MAP
"NOT TO SCALE"

SHEET INDEX
"NOT TO SCALE"

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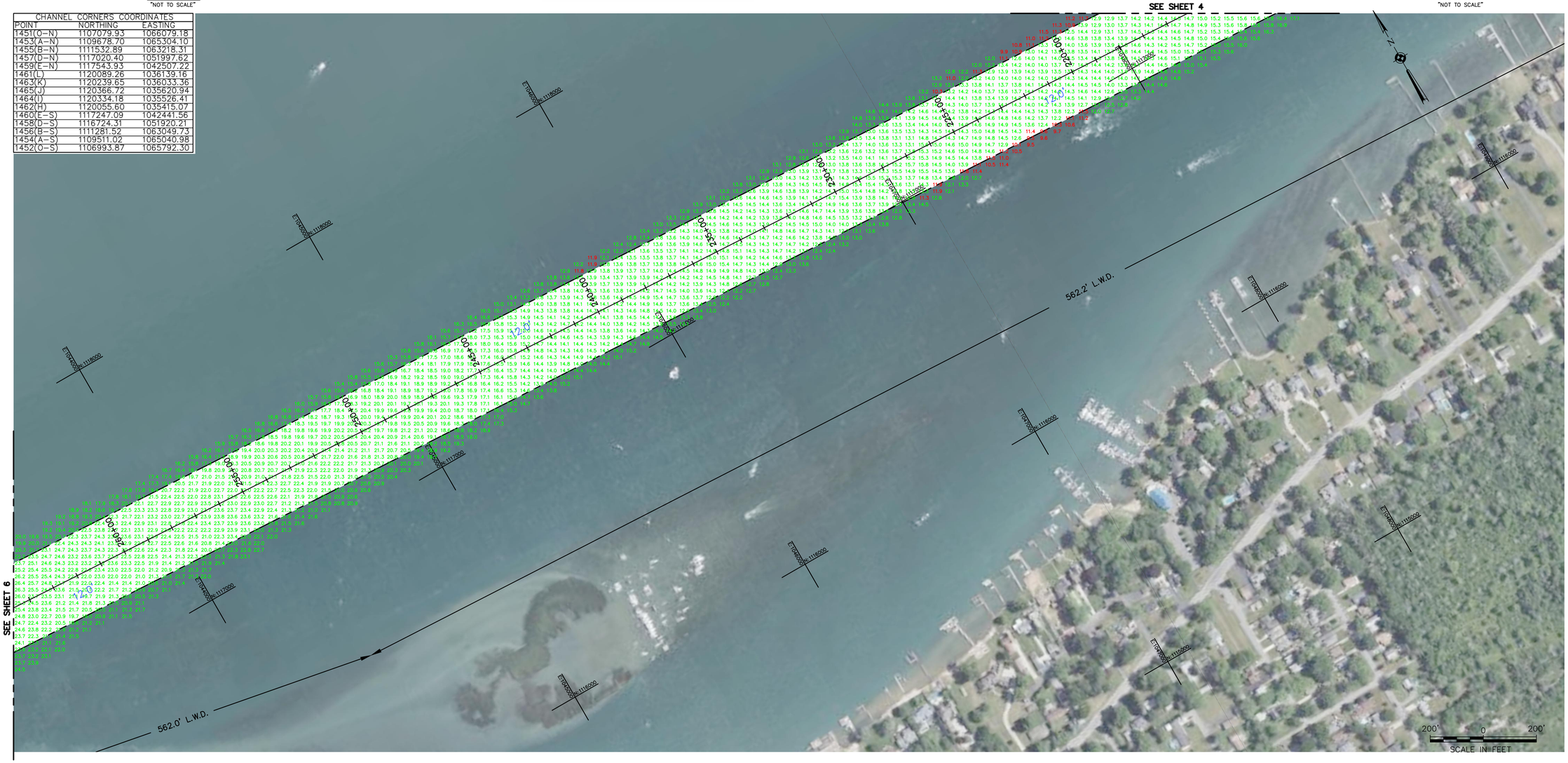

US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

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U.S. ARMY ENGINEER DISTRICT
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BUFFALO, NEW YORK 14207–3199

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NIAGARA RIVER, NY

PROJECT CONDITIONS SOUNDINGS 2021

SCALE: 1"=200'

Sheet reference number
VH–105

Sheet 5 of 7

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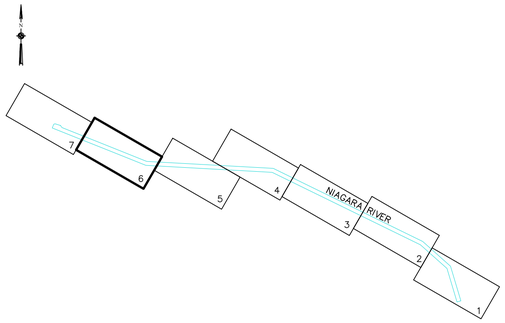

SHEET INDEX
"NOT TO SCALE"

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	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
Oc	OCCULTING LIGHT
Iso	EQUAL INTERVAL
AL	ALTERNATING
Q	QUICK (FLASHING)
S	LIGHT CYCLE SECONDS

SITE SPECIFIC NOTES:

1. PROJECT DEPTHS AND SOUNDINGS ARE REFERRED TO IGLD85 LOW WATER DATUM STEP AS SHOWN.
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3. SOUNDINGS SHOWN REPRESENT THE SHOALEST SOUNDING SORTED FROM FULL MULTIBEAM COVERAGE USING A 50'X25' HYPACK MATRIX.
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   HEAVE PITCH AND ROLL; APPLANIX POS–MV VER. 5
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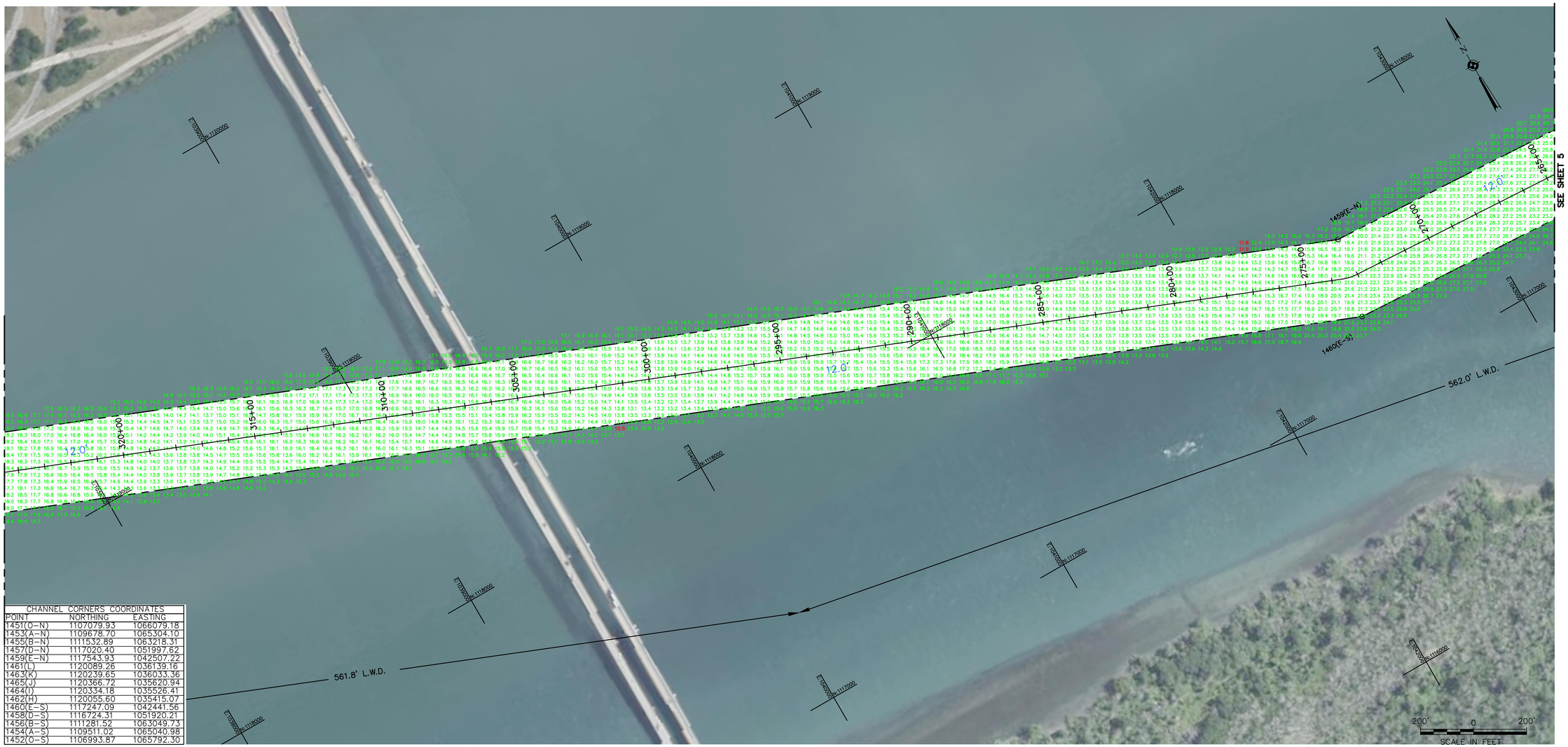
VICINITY MAP
"NOT TO SCALE"



CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
1451(O–N)	1107079.93	1066079.18
1453(A–N)	1109678.70	1065304.10
1455(B–N)	1111532.89	1063218.31
1457(D–N)	1117020.40	1051997.62
1459(E–N)	1117543.93	1042507.22
1461(L)	1120089.26	1036139.16
1463(K)	1120239.65	1036033.36
1465(J)	1120366.72	1035620.94
1464(I)	1120334.18	1035526.41
1462(H)	1120055.60	1035415.07
1460(E–S)	1117247.09	1042441.56
1458(D–S)	1116724.31	1051920.21
1456(B–S)	1111281.52	1063049.73
1454(A–S)	1109511.02	1065040.98
1452(O–S)	1106993.87	1065792.30

US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

** COPY OF SIGNED ORIGINAL **

Drawn by: KPL
Checked by: ACK
Reviewed by:
Roman H. Figler III PLS
Chief, Survey Section
Approved by:
Adam W. Hamm
Chief, NY/PA Navigation and Maintenance Section
Date: August 4, 2021

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

NIAGARA RIVER, NY

PROJECT CONDITIONS SOUNDINGS 2021

SCALE: 1"=200'

Sheet reference number
VH–106
Sheet 6 of 7

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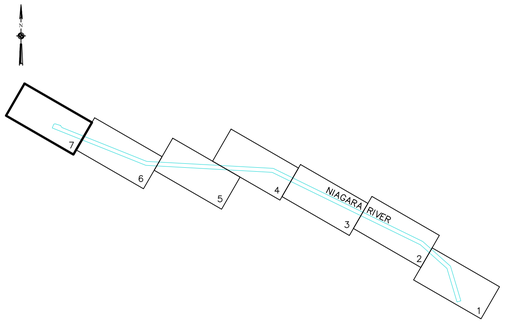

SHEET INDEX
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SOUNDING COLOR LEGEND

- DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
- DEPTHS AT OR BELOW PROJECT DEPTH
- XX.X PROJECT DEPTH

LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
⊙ 417	CHANNEL CORNER
◎ H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BUOY
N	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
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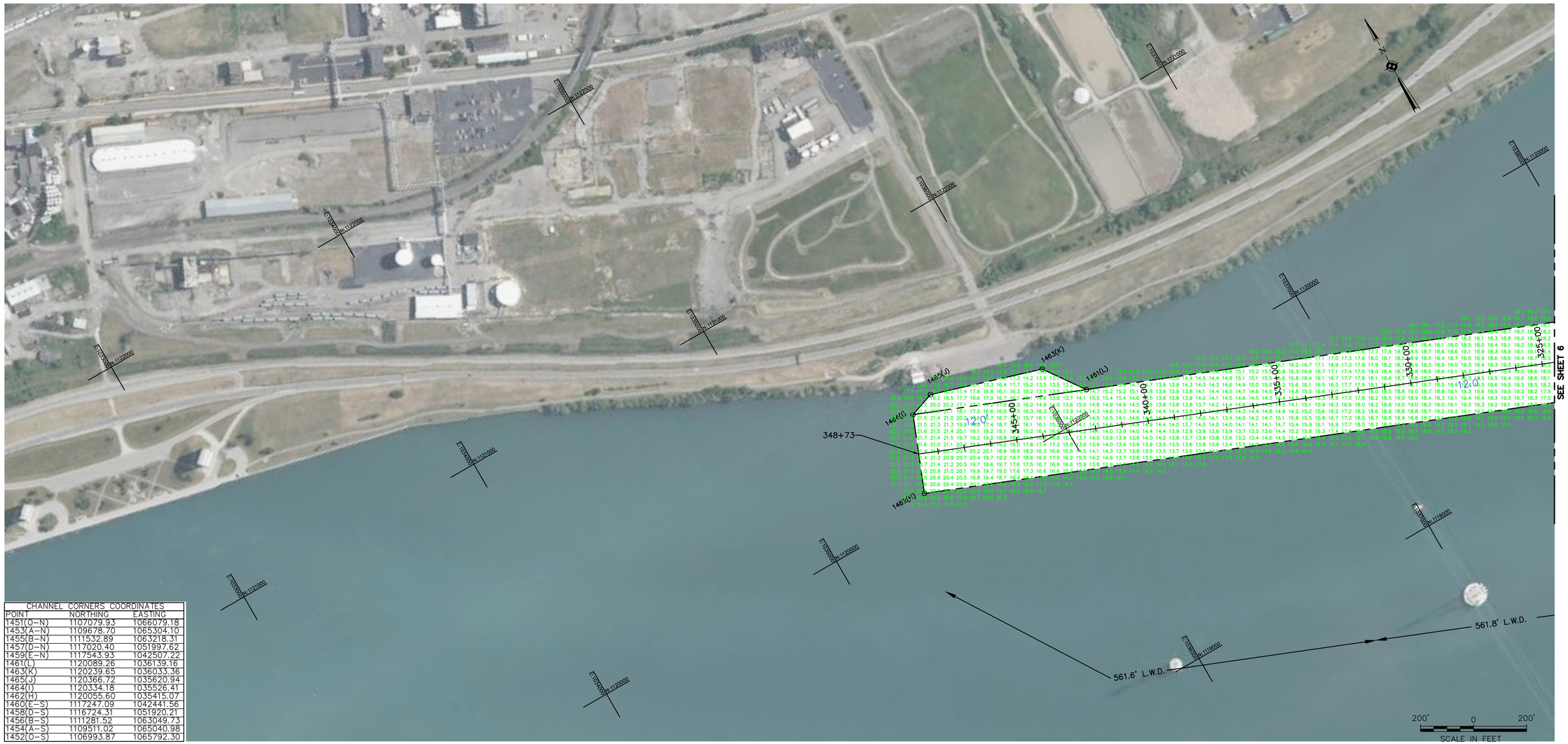

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NIAGARA RIVER, NY

PROJECT CONDITIONS SOUNDINGS 2021

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Sheet 7 of 7

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