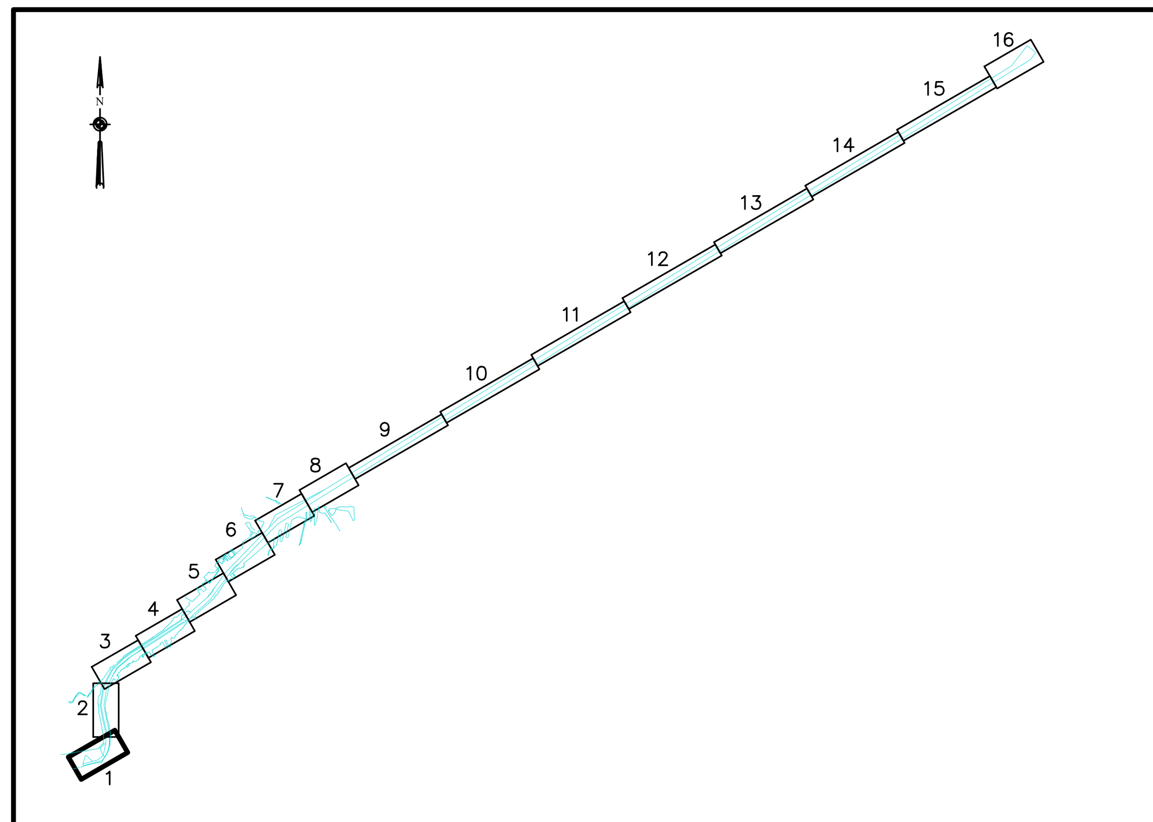

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

(red)	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
(green)	DEPTHS AT OR BELOW PROJECT DEPTH
X.X	PROJECT DEPTH

LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
o 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

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   HEAVE PITCH AND ROLL: APPLANIX POS–MV VER. 5
   VELOCITY PROFILER: SONTEK CASTAWAY CTD
   HYPACK SURVEY SOFTWARE
   SURVEY VESSEL: WITMER
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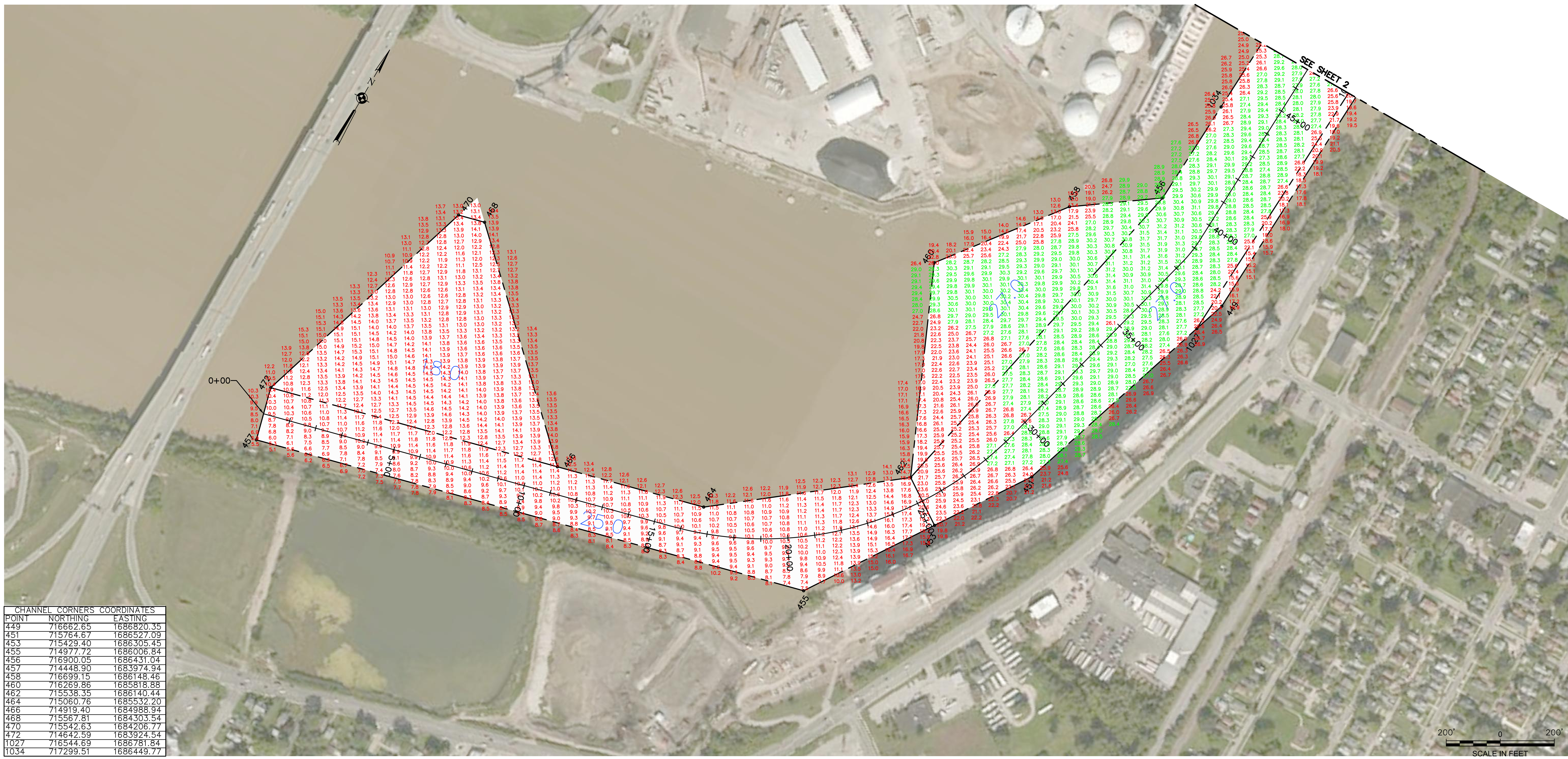
VICINITY MAP
"NOT TO SCALE"



CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
449	716662.65	1686820.35
451	715764.67	1686527.09
453	715429.40	1686305.45
455	714977.72	1686006.84
456	716900.05	1686431.04
457	714448.90	1683974.94
458	716699.15	1686148.46
460	716269.86	1685818.88
462	715538.35	1686140.44
464	715060.76	1685532.20
466	714919.40	1684988.94
468	715567.81	1684303.54
470	715542.63	1684206.77
472	714642.59	1683924.54
1027	716544.69	1686781.84
1034	717299.51	1686449.77

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 26, 2021

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

TOLEDO, OHIO
TOLEDO HARBOR

PROJECT CONDITIONS SOUNDINGS 2021

SCALE: 1"=200'

Sheet reference number
VH–101
Sheet 1 of 16

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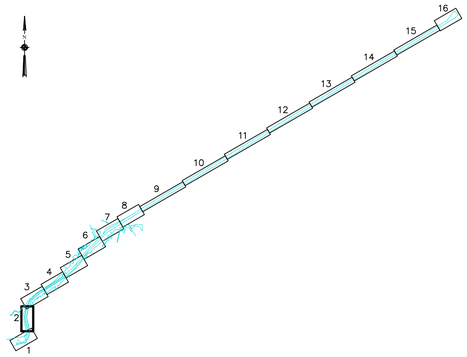

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

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

LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
o 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

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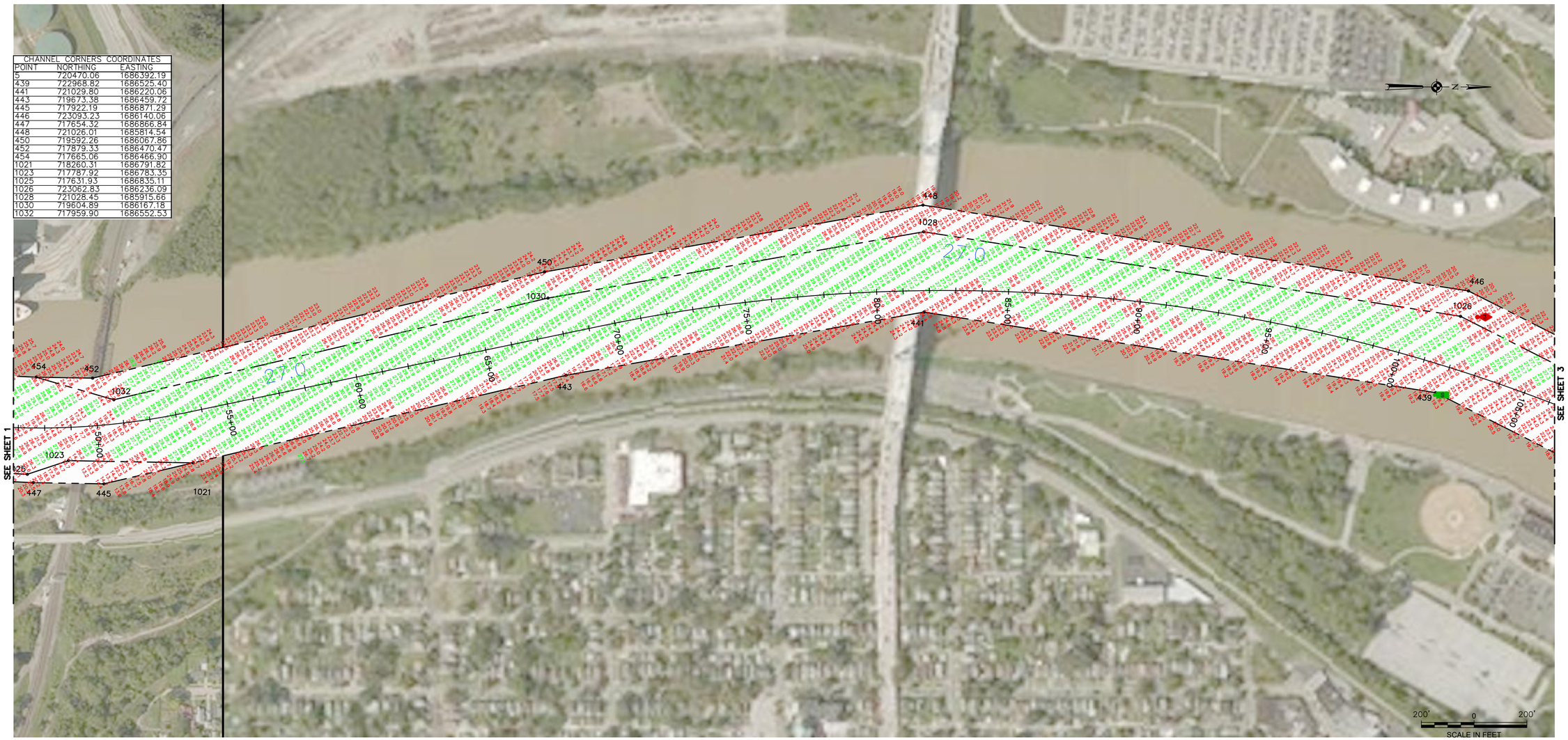
VICINITY MAP
"NOT TO SCALE"

CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
5	720470.06	1686392.19
439	722968.82	1686525.40
441	721029.80	1686220.06
443	719673.38	1686459.72
445	717922.19	1686871.29
446	723093.23	1686140.06
447	717654.32	1686866.84
448	721026.01	1685814.54
450	719592.26	1686067.86
452	717879.33	1686470.47
454	717665.06	1686466.90
1021	718260.31	1686791.82
1023	717787.92	1686783.35
1025	717631.93	1686835.11
1026	723062.83	1686236.09
1028	721028.45	1685915.66
1030	719604.89	1686167.18
1032	717959.90	1686552.53



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 26, 2021

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

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH-102
Sheet 2 of 16

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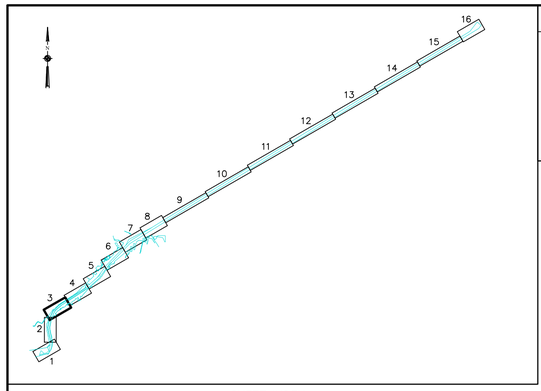

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

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

LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
o 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

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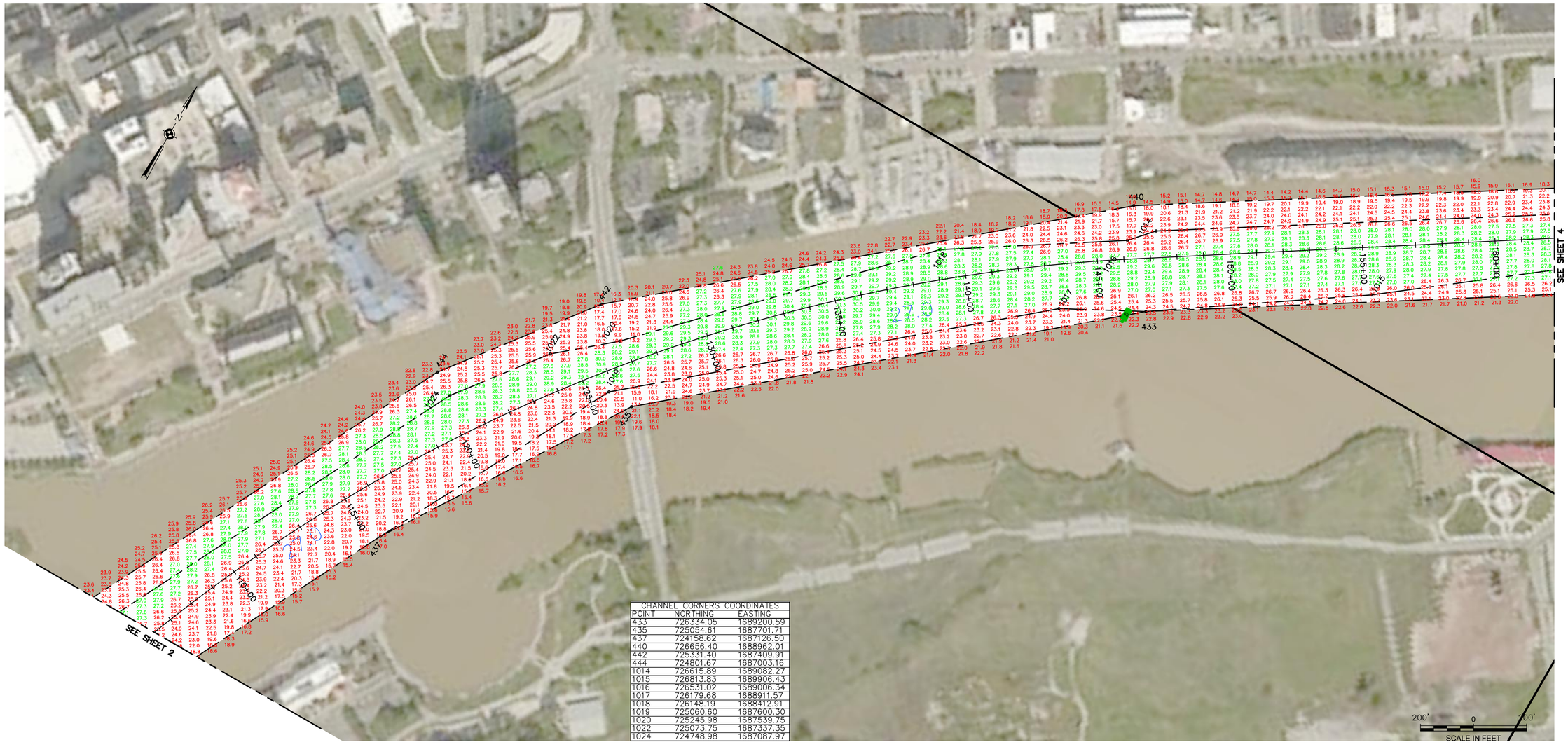
VICINITY MAP
"NOT TO SCALE"



CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
433	726334.05	1689200.59
435	725054.61	1687701.71
437	724158.62	1687126.50
440	726656.40	1688962.01
442	725331.40	1687409.91
444	724801.67	1687003.16
1014	726615.89	1689082.27
1015	726813.83	1689906.43
1016	726531.02	1689006.34
1017	726179.68	1688911.57
1018	726148.19	1688412.91
1019	725060.60	1687600.30
1020	725245.98	1687539.75
1022	725073.75	1687337.35
1024	724748.98	1687087.97

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. Figlar III PLS
Chief, Survey Section
Approved by: Adam W. Hamm
Chief, NY/PA Navigation and Maintenance Section
Date: August 26, 2021

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

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–103

Sheet 3 of 16

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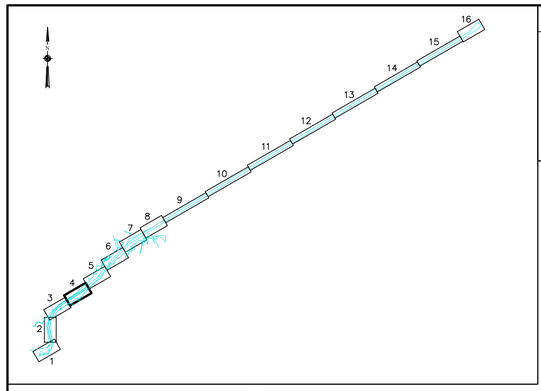

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

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

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VICINITY MAP
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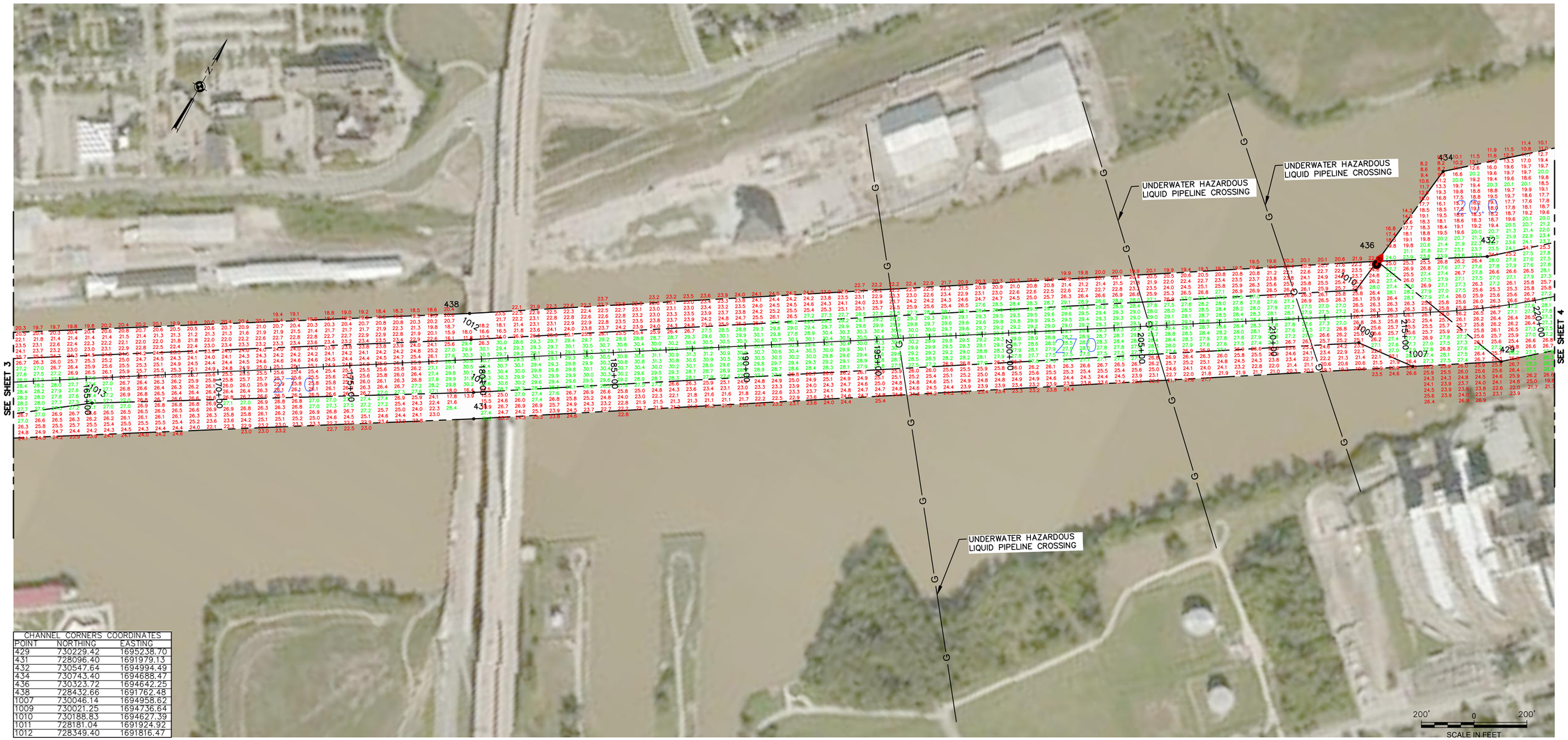

CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
429	730229.42	1695238.70
431	728096.40	1691979.13
432	730547.64	1694994.49
434	730743.40	1694688.47
436	730323.72	1694642.25
438	728432.66	1691762.48
1007	730046.14	1694958.62
1009	730021.25	1694736.64
1010	730188.83	1694627.39
1011	728181.04	1691924.92
1012	728349.40	1691816.47

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 26, 2021

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

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–104
Sheet 4 of 16

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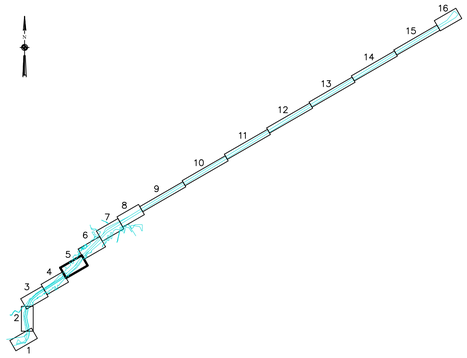

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
	DEPTHS AT OR BELOW PROJECT DEPTH
X.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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R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
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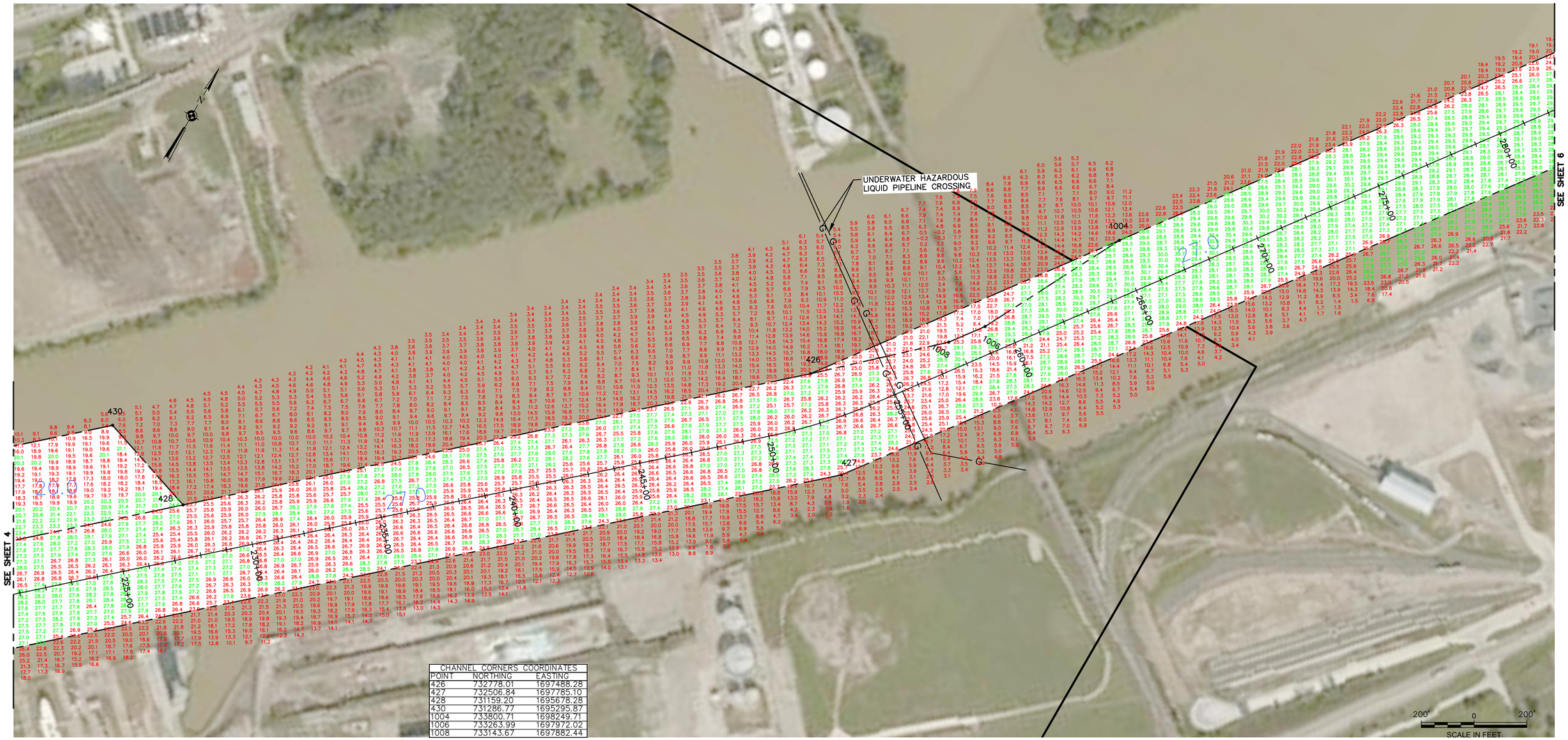
VICINITY MAP
"NOT TO SCALE"



CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
426	732778.01	1697488.28
427	732506.84	1697785.10
428	731159.20	1695678.28
430	731286.77	1695295.87
1004	733800.71	1698249.71
1006	733263.99	1697972.02
1008	733143.67	1697882.44

US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

** COPY OF SIGNED ORIGINAL **

Drawn by: KPL
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Reviewed by:
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Chief, Survey Section
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Chief, NY/PA Navigation and Maintenance Section

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CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–105
Sheet 5 of 16

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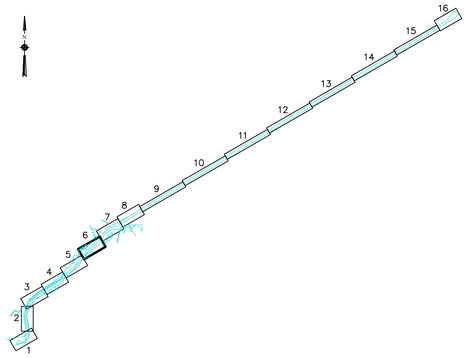

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
	DEPTHS AT OR BELOW PROJECT DEPTH
X.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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   HEAVE PITCH AND ROLL: APPLANIX POS–MV VER. 5
   VELOCITY PROFILER: SONTEK CASTAWAY CTD
   HYPACK SURVEY SOFTWARE
   SURVEY VESSEL: WITMER
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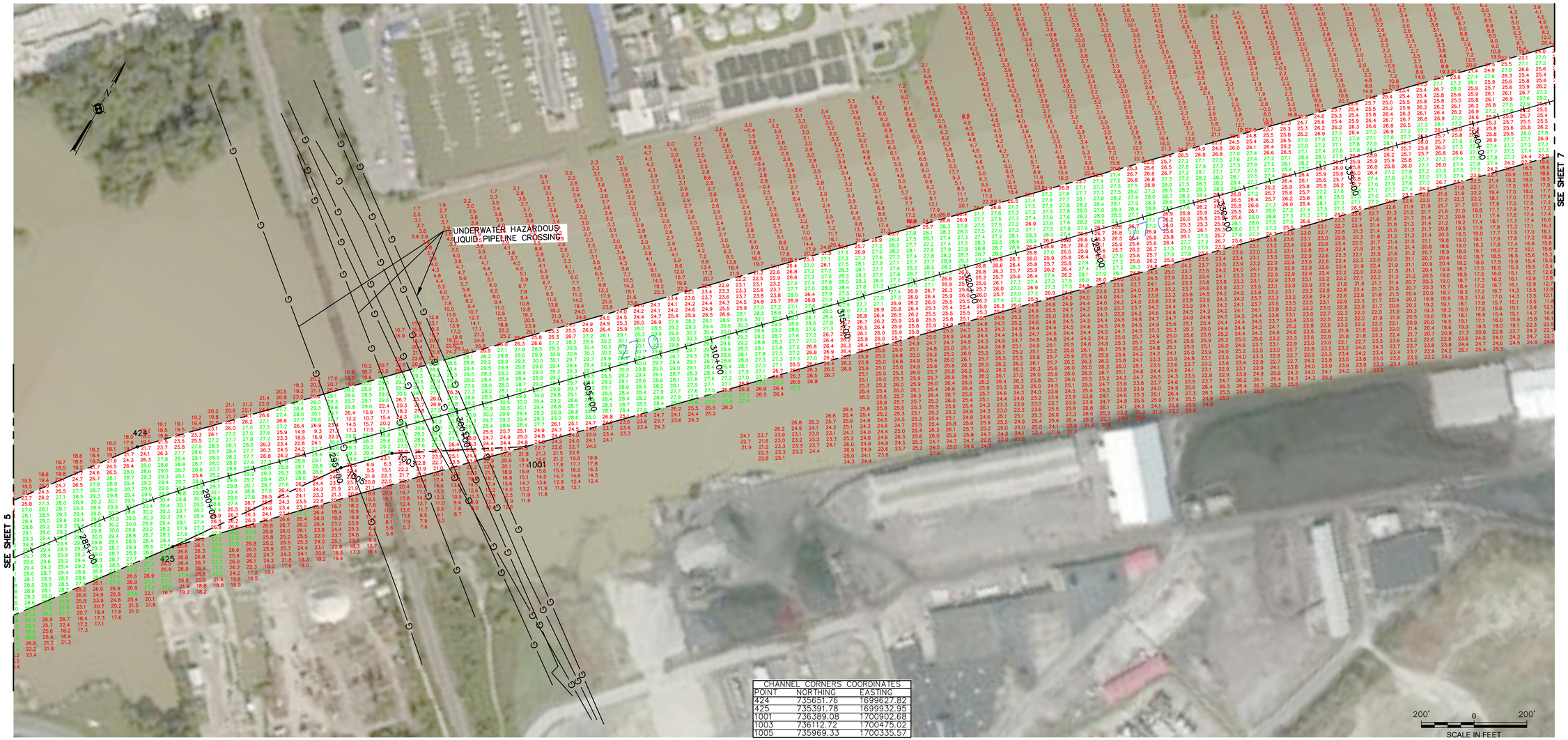
VICINITY MAP
"NOT TO SCALE"



CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
424	735651.76	1699627.82
425	735391.78	1699932.95
1001	736389.08	1700902.68
1003	736112.72	1700475.02
1005	735969.33	1700335.57

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 26, 2021

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

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–106
Sheet 6 of 16

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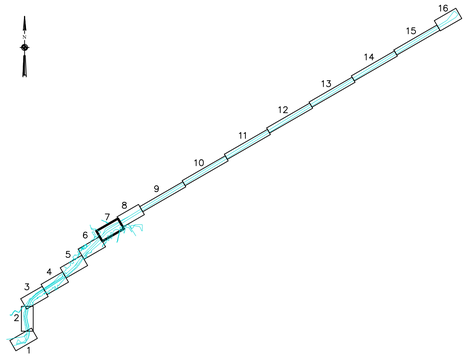

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

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

LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
o 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

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VICINITY MAP
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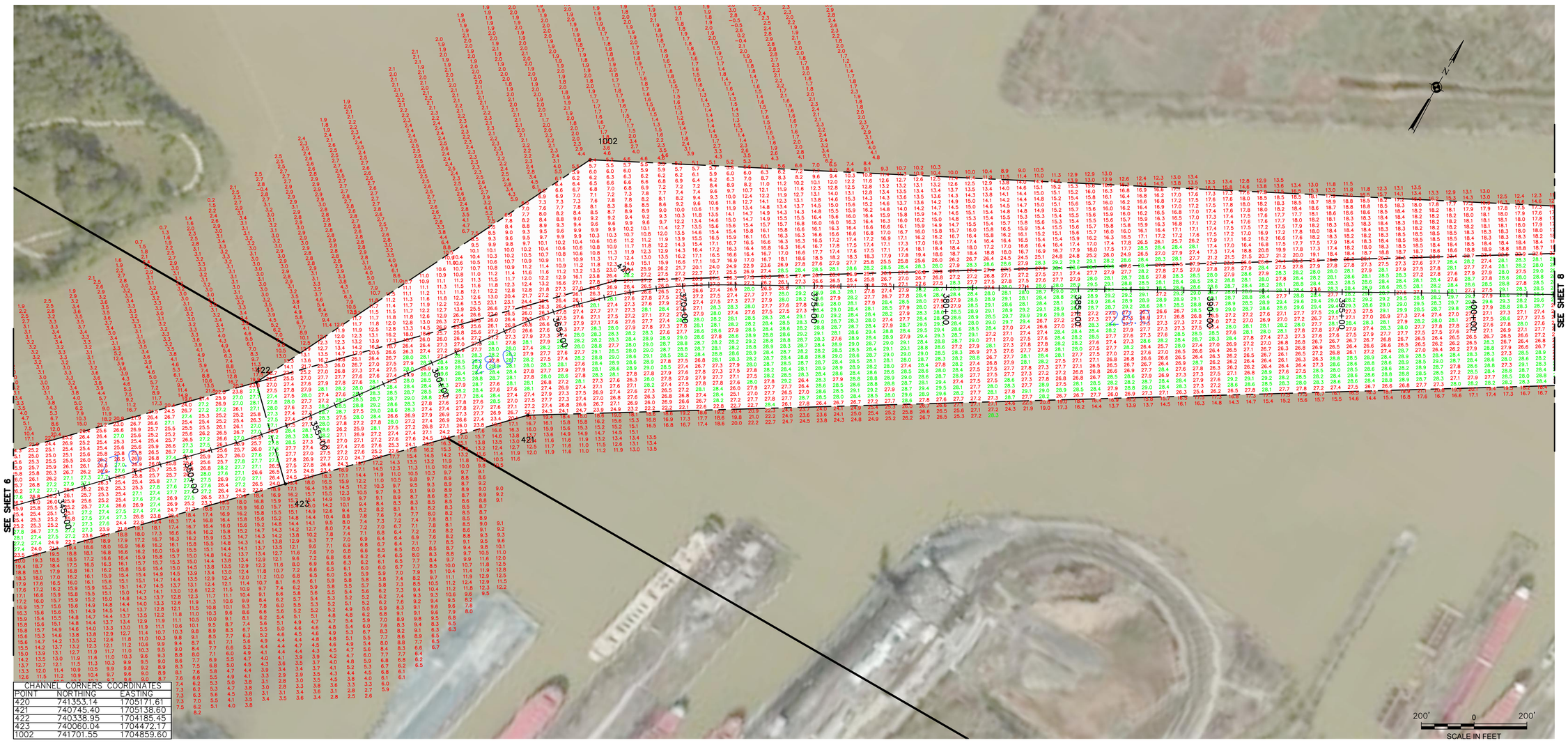

CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
420	741353.14	1705171.61
421	740745.40	1705138.60
422	740338.95	1704185.45
423	740060.04	1704472.17
1002	741701.55	1704859.60

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 26, 2021

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

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–107

Sheet 7 of 16

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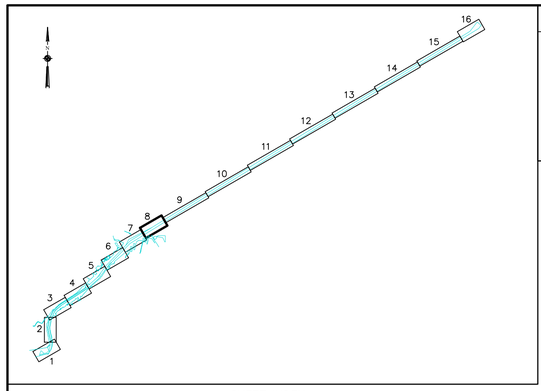

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

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

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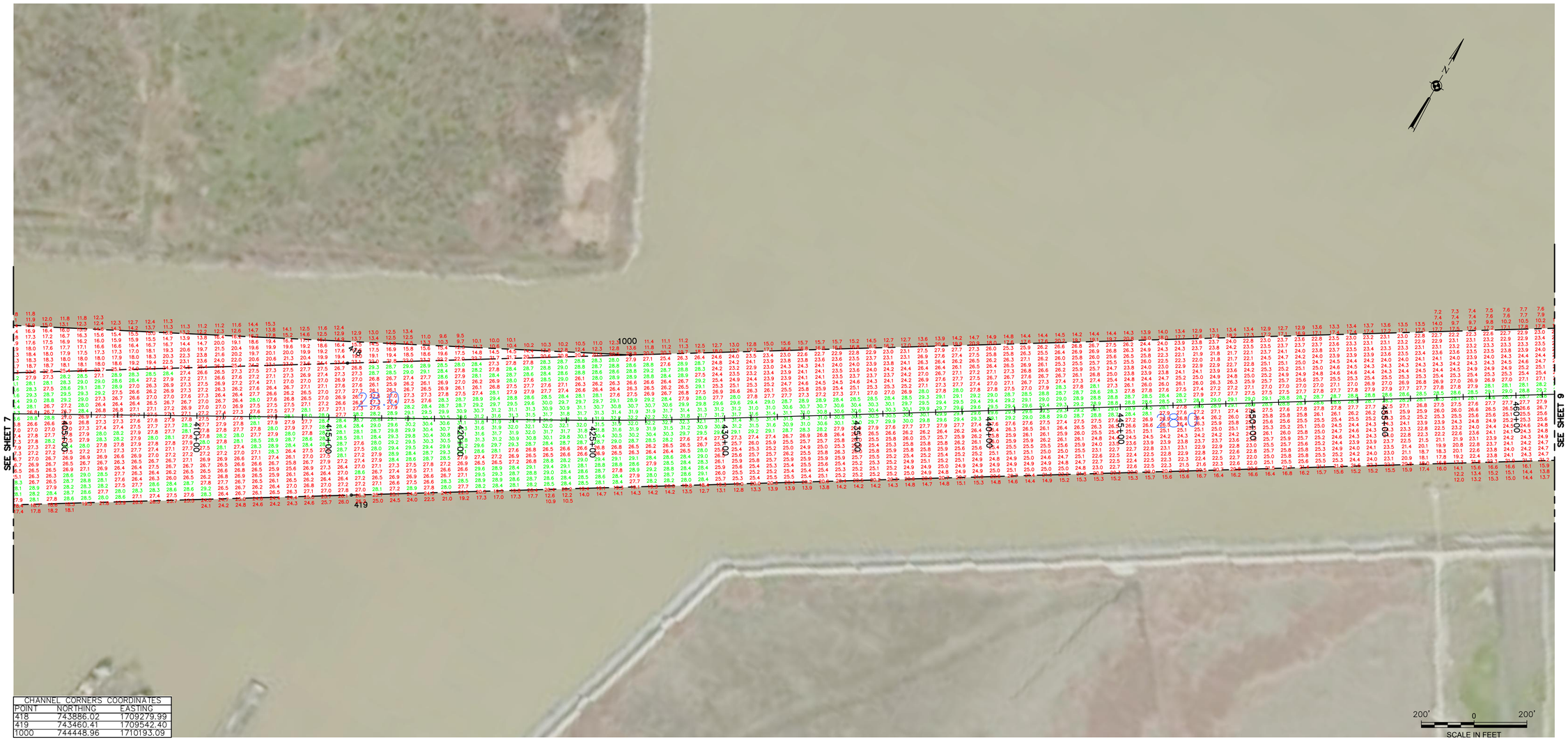
VICINITY MAP
"NOT TO SCALE"



CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
418	743886.02	1709279.99
419	743460.41	1709542.40
1000	744448.96	1710193.09

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 26, 2021

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

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–108
Sheet 8 of 16

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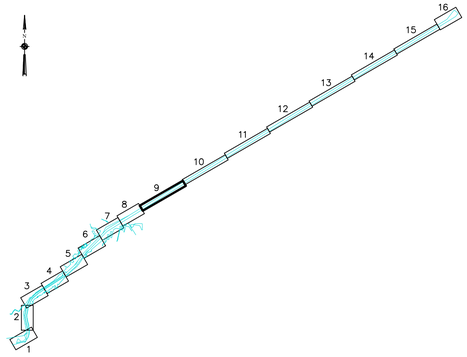

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND	
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	DEPTHS AT OR BELOW PROJECT DEPTH
X.X	PROJECT DEPTH

LEGEND OF SYMBOLS	
17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
o 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

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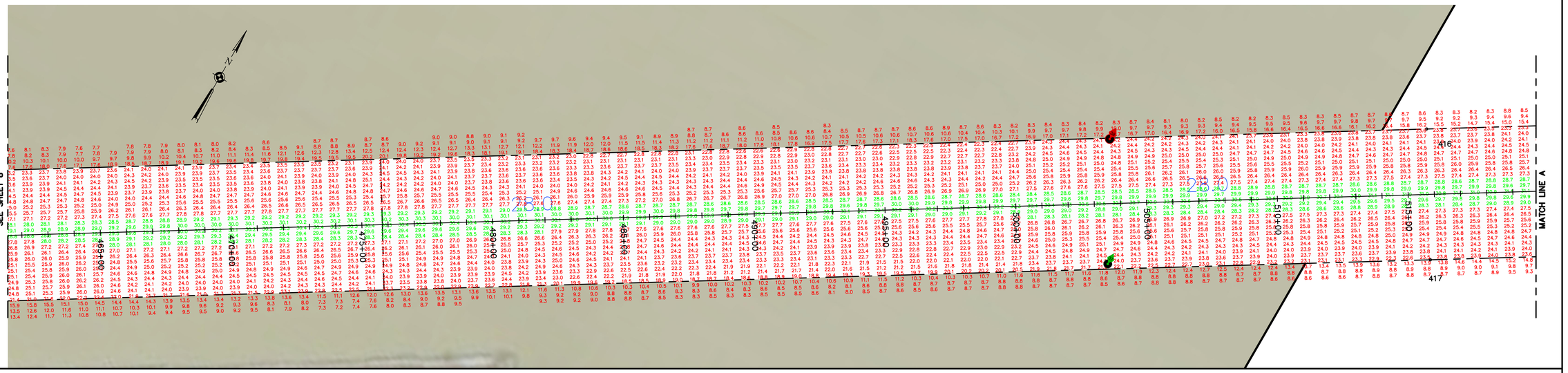

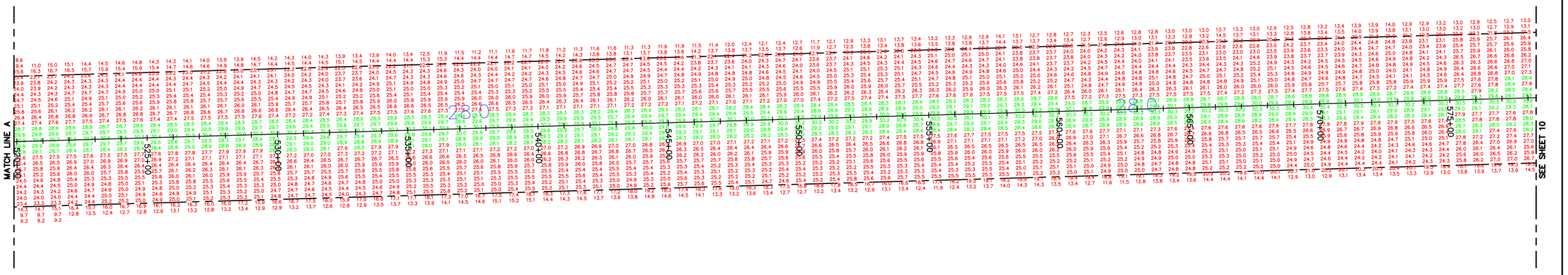

CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
416	749133.97	1717792.27
417	748708.36	1718054.69

200' 0 200'
SCALE IN FEET

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 26, 2021

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

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–109
Sheet 9 of 16

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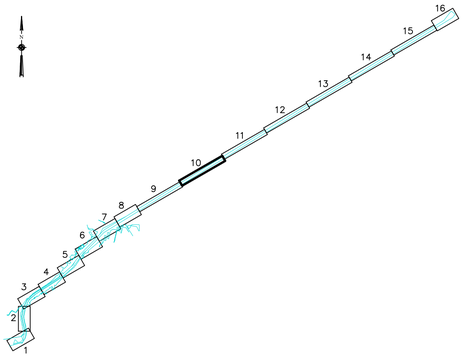

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

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	DEPTHS AT OR BELOW PROJECT DEPTH
X.X	PROJECT DEPTH

LEGEND OF SYMBOLS

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H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BUOY
N	NUN BUOY
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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

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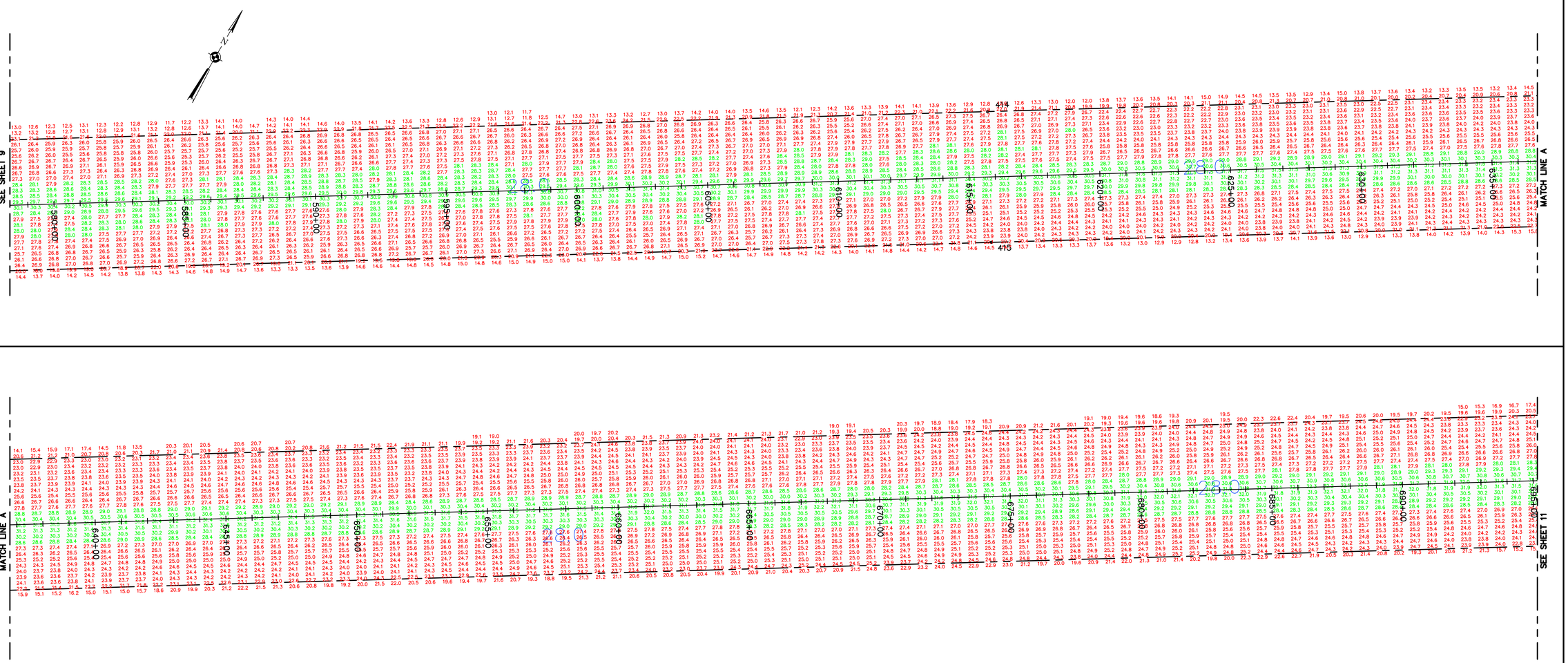

CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
414	754381.92	1726304.56
415	753956.31	1726566.97

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
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BUFFALO, NEW YORK 14207–3199

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–110
Sheet 10 of 16

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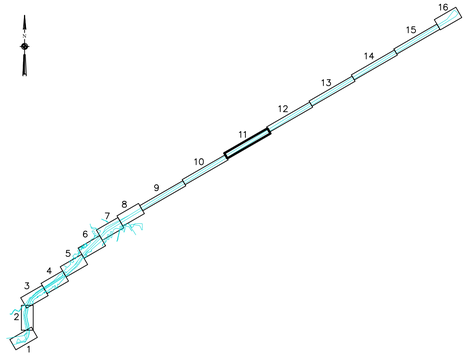

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SOUNDING COLOR LEGEND

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	DEPTHS AT OR BELOW PROJECT DEPTH
X.X	PROJECT DEPTH

LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
o 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
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
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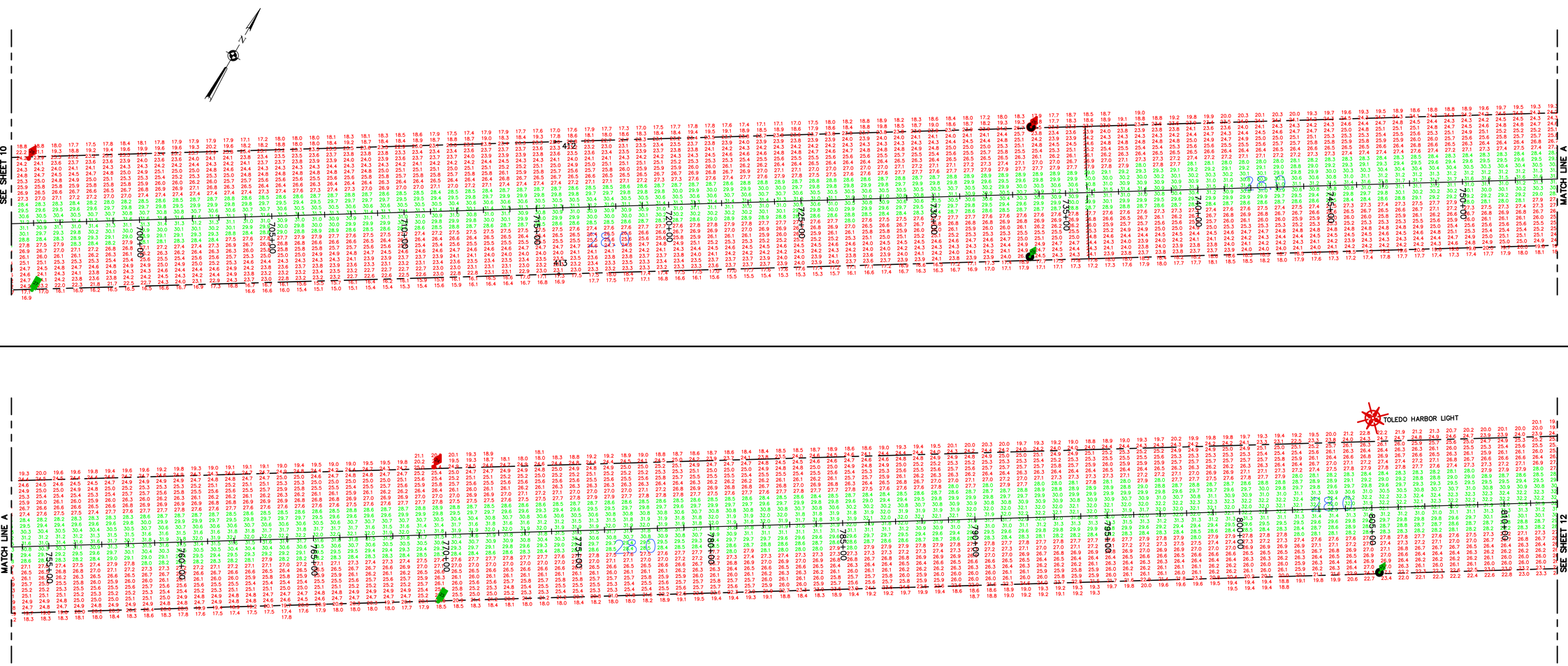

CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
412	759629.87	1734816.85
413	759204.26	1735079.26

US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

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TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–111
Sheet 11 of 16

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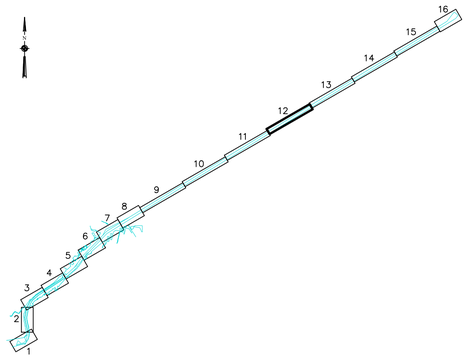

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"NOT TO SCALE"

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	DEPTHS AT OR BELOW PROJECT DEPTH
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   HEAVE PITCH AND ROLL: APPLANIX POS–MV VER. 5
   VELOCITY PROFILER: SONTEK CASTAWAY CTD
   HYPACK SURVEY SOFTWARE
   SURVEY VESSEL: WITMER
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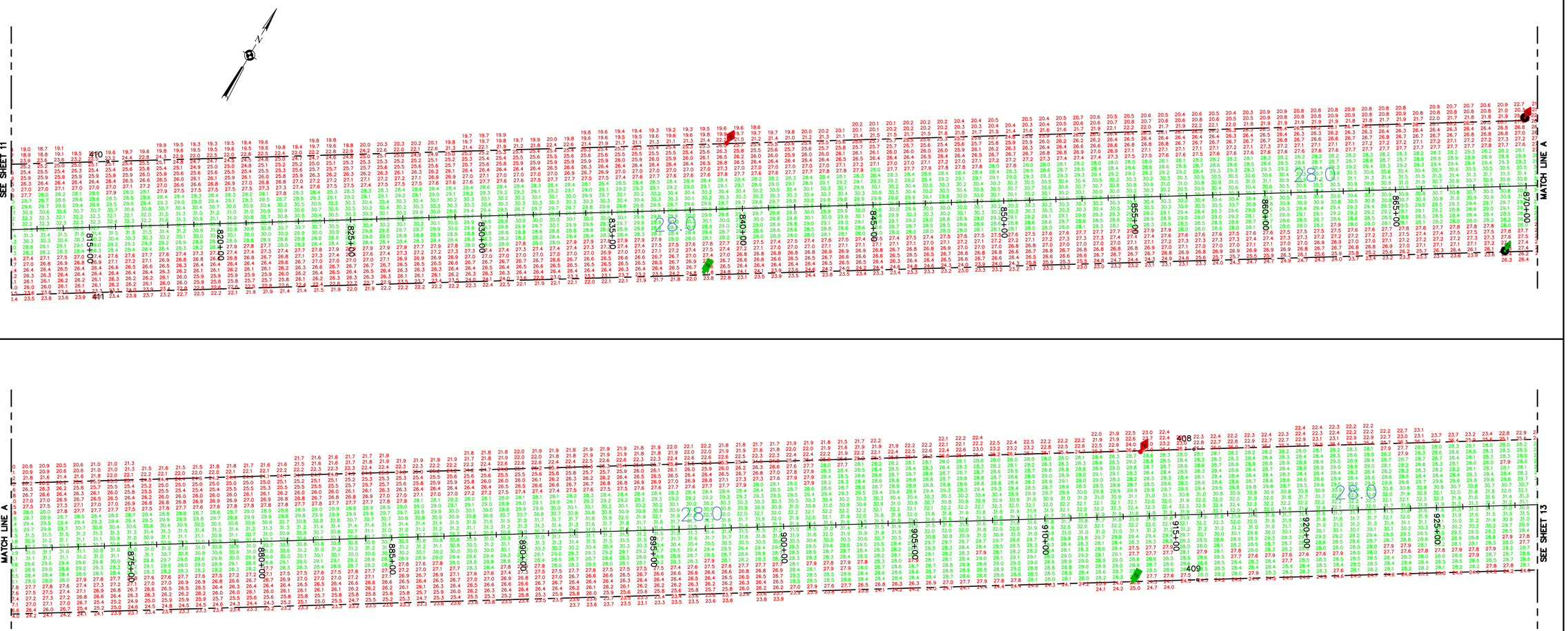
7. THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110–2–1003.

VICINITY MAP
"NOT TO SCALE"



CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
408	770125.77	1751841.42
409	769700.16	1752103.83
410	764877.82	1743329.13
411	764452.21	1743591.55

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 26, 2021

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

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–112
Sheet 12 of 16

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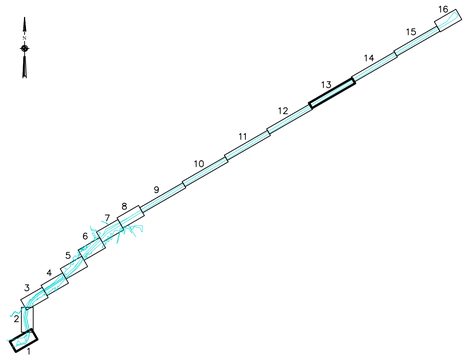

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

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

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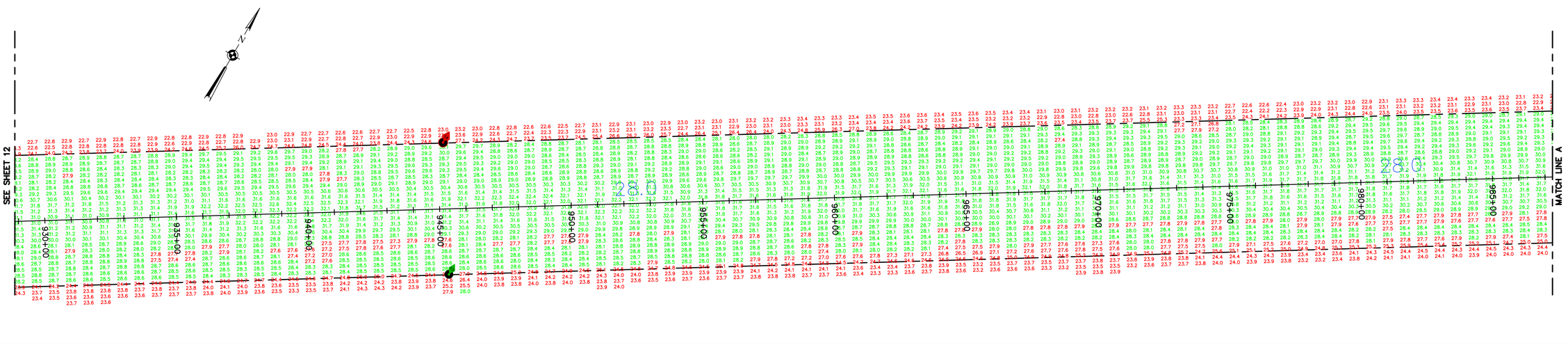
VICINITY MAP
"NOT TO SCALE"



CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
406	775373.72	1760353.71
407	774948.11	1760616.12

200' 0 200'
SCALE IN FEET

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 26, 2021

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

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–113
Sheet 13 of 16

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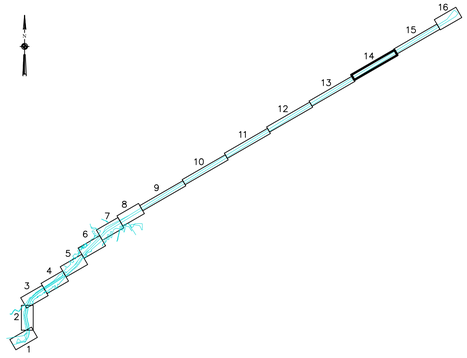

SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

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

LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
o 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

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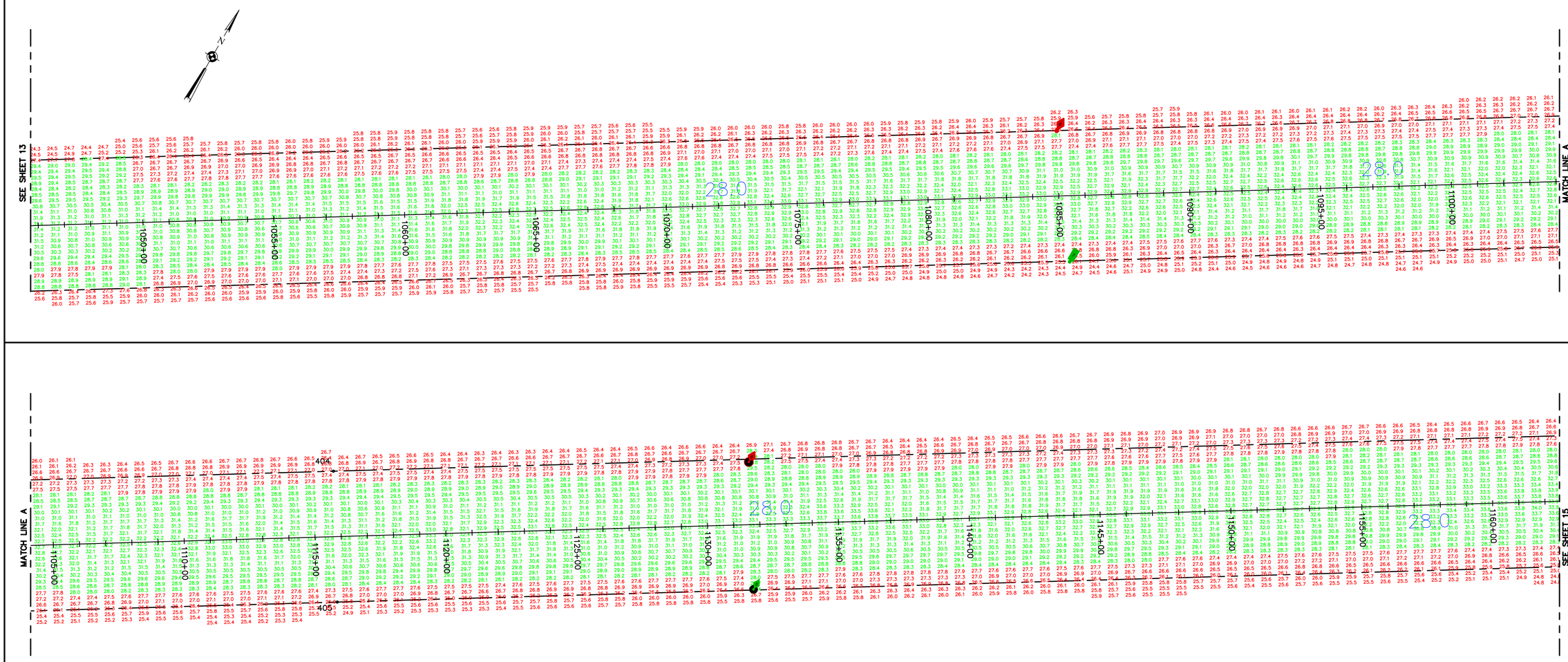

CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
404	780621.67	1768865.99
405	780196.06	1769128.41

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 26, 2021

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

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–114
Sheet 14 of 16

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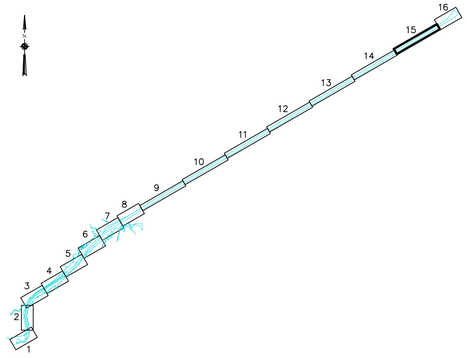

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SOUNDING COLOR LEGEND

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	DEPTHS AT OR BELOW PROJECT DEPTH
X.X	PROJECT DEPTH

LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
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H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
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C	CAN BUOY
N	NUN BUOY
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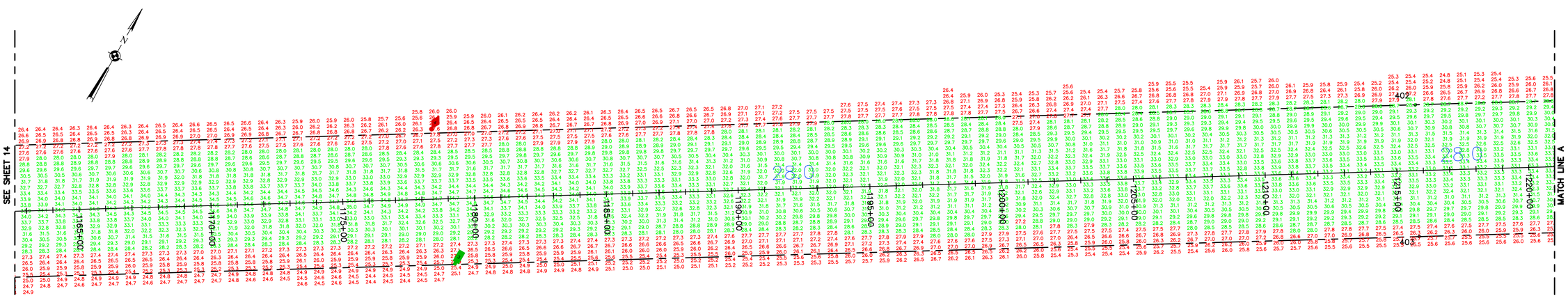

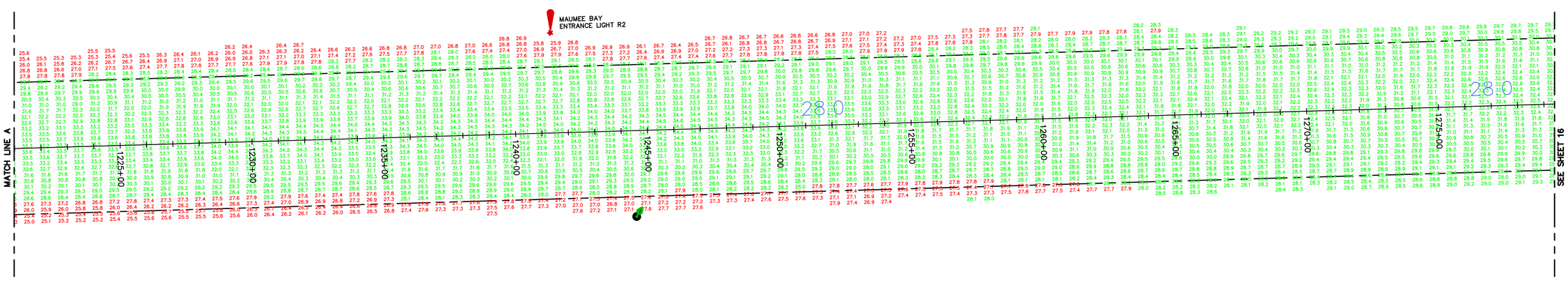

CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
402	785869.62	1777378.28
403	785444.01	1777640.70

200' 0 200'
SCALE IN FEET

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 26, 2021

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

TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–115
Sheet 15 of 16

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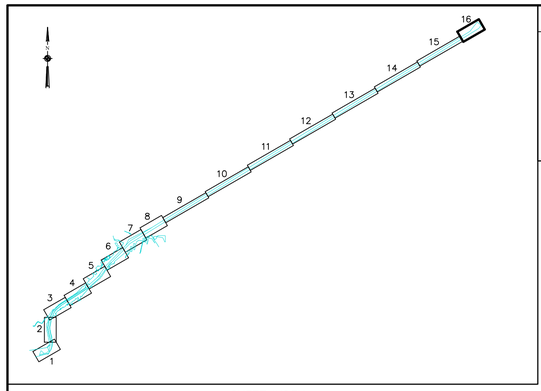

SHEET INDEX
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SOUNDING COLOR LEGEND

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LEGEND OF SYMBOLS

17+00 (NEW), 17+00 (OLD)	CHANNEL STATIONING
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	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BUOY
N	NUN BUOY
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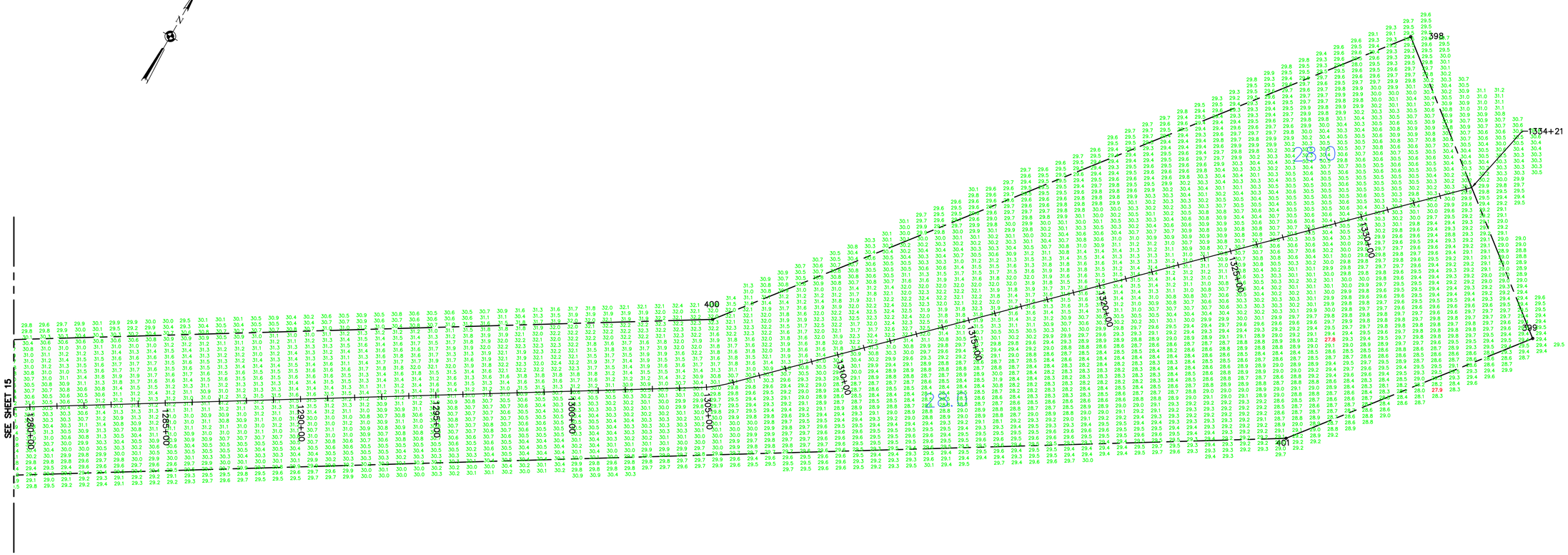

CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
398	792757.62	1786708.33
399	792018.56	1787655.13
400	790567.96	1784999.09
401	791246.52	1787052.48

200' 0 200'
SCALE IN FEET

US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

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TOLEDO, OHIO
TOLEDO HARBOR
PROJECT CONDITIONS SOUNDINGS 2021
SCALE: 1"=200'

Sheet reference number
VH–116
Sheet 16 of 16

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