

# SHEET INDEX

SHEET 3

SHEET 2

SHEET 1

## CHANNEL CONTROL

DESCRIPTION	COORDINATES	
	NORTHING	EASTING
POINT 1	946594.4	26008304.7
POINT 2	946720.3	26008163.8
POINT 3	946407.0	26008005.0
POINT 4	946459.3	26007930.6
POINT 5	946428.5	26007314.4
POINT 6	946478.5	26007315.9
POINT 7	946456.2	26003981.8
POINT 8	946506.2	26003982.2

## SURVEY CONTROL

STA.	DESCRIPTION	COORDINATES	
		NORTHING	EASTING
FOG	BRASS DISC	946505.89	26007921.37
MOUTH	BRASS DISC	946417.17	26008085.04
RISER	ALUM DISC	946560.00	26006723.34
NAV. AID	RED LIGHT	946512.71	26007921.86
NAV. AID	GREEN LIGHT	946423.33	26008085.99
TIDE GAUGE	PK NAIL	946362.14	26007008.82
SET PK "101"	PK NAIL	946543.58	26007465.66
G 347	FLANGE-ENCASED ROD	946543.58	26007465.66
AC 5812	SURVEY DISK	947069.20	26007523.24

1) THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF A SURVEY MADE ON SEPTEMBER 17, 2019 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THAT TIME.

2) SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM ELEVATION 601.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI, QUEBEC. WATER LEVEL READINGS WERE OBTAINED WITH RTK GPS VALUES THAT HAVE BEEN VERIFIED TO MATCH A MANUAL TIDE READING. DEPTHS ARE MEASURED USING A ROSS LABORATORIES 825C SINGLE BEAM ECHOSOUNDER.

3) HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) CORRECTIONS FROM A BASE STATION LOCATED AT USACE CONTROL POINT LLB101, A PK NAIL SET IN ROCK.

4) THE PROJECT DEPTH FOR THIS AREA IS 10'.

5) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD 83), US SURVEY FOOT.

LEGEND

- HORIZONTAL CONTROL POINT
- CHANNEL LINE TURNING POINT
- CHANNEL LINE
- PROJECT DEPTH CONTOUR

10' LEGEND

- 0.0'
- 9.0'
- 10.0'
- 11.0'
- 12.0'
- 30.0'

NOTES

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0 50' 100'

N

US Army Corps of Engineers®

DATE	DESCRIPTION	MARK

SURVEYED BY: KRC/ATA

DRAWN BY: LCB

REVIEWED BY: CAV

APPROVED BY: S. BROSSART

FILE NAME: LLBVH01C191.dgn

ANSID:

U.S. ARMY CORPS OF ENGINEERS  
DETROIT DISTRICT  
477 MICHIGAN AVE  
DETROIT, MI 48226

DULUTH AREA OFFICE  
601 LAKE AVENUE SOUTH  
DULUTH, MN 55802

LAC LA BELLE HARBOR  
MICHIGAN

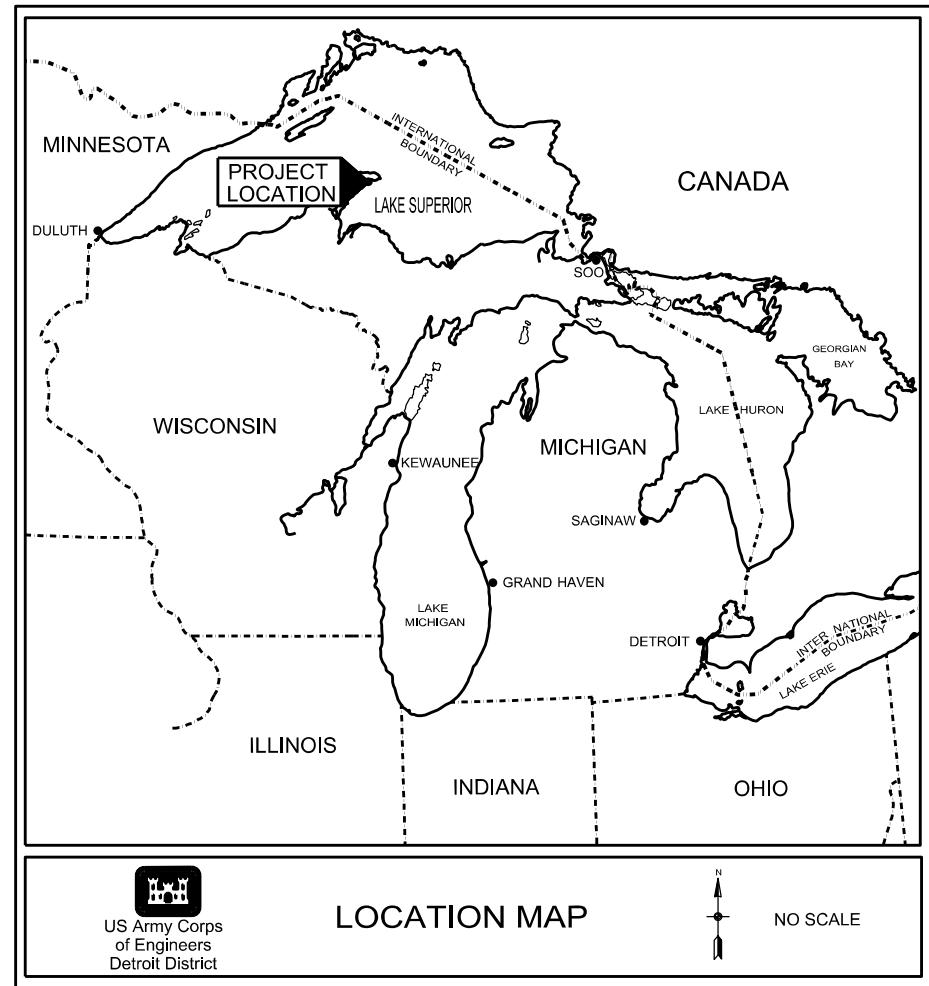
CONDITION OF CHANNEL  
SEPTEMBER 2019

SHEET ID

LLB 2

SHEET 2 OF 3





# SHEET INDEX

The figure is an aerial photograph of a river channel. The channel is divided into three sections by vertical lines. The leftmost section is labeled 'SHEET 3' and contains a hatched area. The middle section is labeled 'SHEET 2'. The rightmost section is labeled 'SHEET 1' and shows a bridge crossing the river. A white arrow points to the right edge of SHEET 1.

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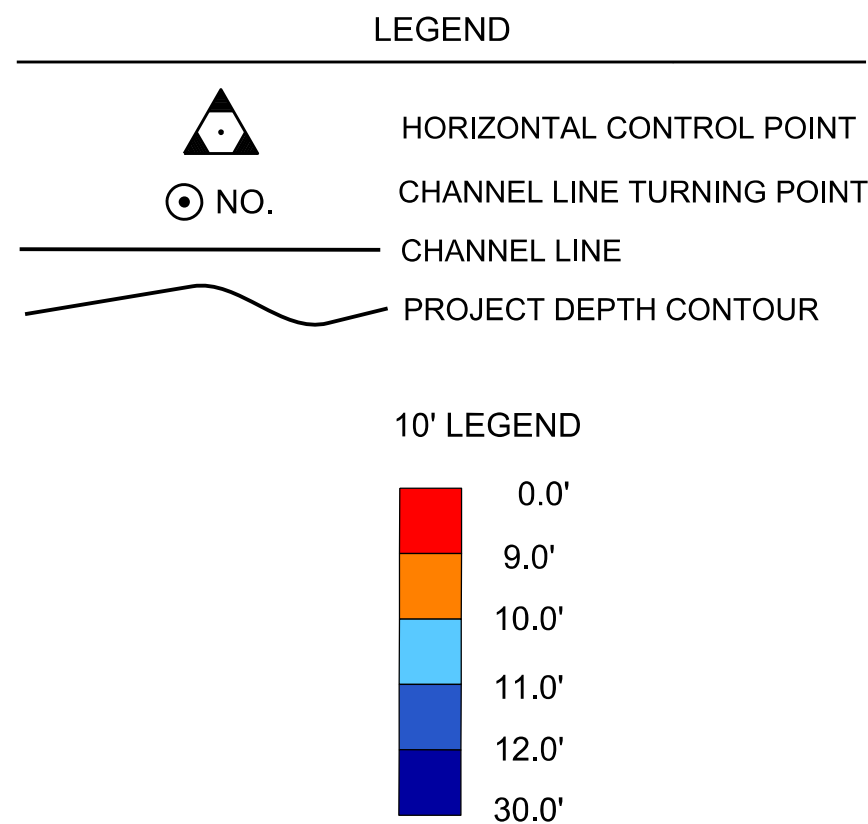
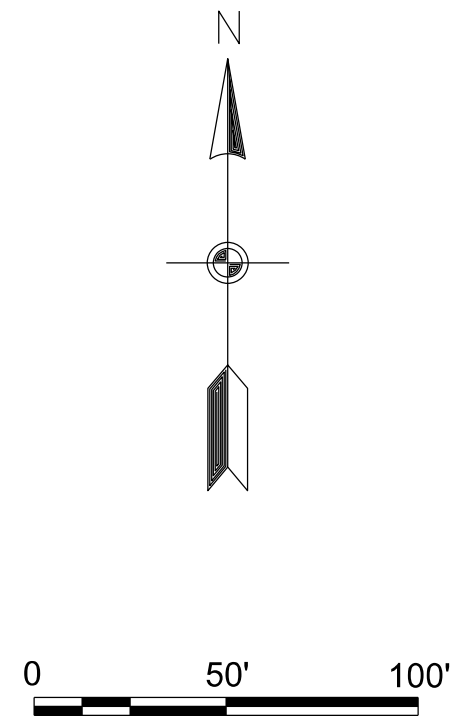
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#### NOTES

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US Army Corps of Engineers®

DATE	DESCRIPTION	MARK

DATE OF SURVEY: 17-SEP-19	SURVEYED BY: KRC/ATA	U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT 477 MICHIGAN AVE DETROIT, MI 48226
DRAWING DATE: 16-JUL-18	DRAWN BY: LBB/ATA	
SOURCE OF IMAGERY: NAIP	REVIEWED BY: CAV	
DATE OF IMAGERY: 16-JUL-18	APPROVED BY: S. BROSSART	DULUTH AREA OFFICE 601 LAKE AVENUE SOUTH DULUTH, MN 55802
FILE NAME: LLBVH101C191.dgn	SIZE: 10.0 MB	

LAC LA BELLE HARBOR  
MICHIGAN

CONDITION OF CHANNEL  
SEPTEMBER 2019

SHEET ID  
**LLB 3**  
SHEET 3 OF 3