



GRID SCALE FACTOR: 0.999961630
 GRID DIST. DIVIDED BY GRID SCALE FACTOR = GROUND DIST.

CENTERLINE T. P.

T. P.	COORDINATES	
	EAST X	NORTH Y
5	13.456.195.39	287.793.07
6	13.455.772.66	288.244.09

CHANNEL LINE T. P.

T. P.	COORDINATES	
	EAST X	NORTH Y
N	13.456.700.58	287.693.88
D	13.456.624.37	287.508.97
P	13.456.424.85	287.654.73
Q	13.455.131.30	287.709.74
R	13.456.253.49	287.878.17
S	13.456.434.46	287.756.78
T	13.455.860.34	288.296.78
U	13.455.684.96	288.191.39

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

LOW WATER DATUM
 ELEVATIONS AND PROJECT DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM, (1985) THE LOW WATER DATUM FOR THE ROUGE RIVER IS 571.2 FT. ABOVE MEAN SEA LEVEL.

GRID COORDINATES
 GRIDS SHOWN ARE BASED ON NATIONAL GEODETIC SURVEY PROJECTION TABLES, STATE OF MICHIGAN, SOUTH ZONE (2113), LAMBERT PROJECTION, 1983 NORTH AMERICAN DATUM.
 ALL COORDINATES ARE IN U.S. SURVEY FEET.

PROJECT DEPTH 21.0 FT.
 21.0 FT. PROJECT DEPTH CONTOUR

DIRECTIONS
 ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS
 PROJECT DEPTHS ARE AS INDICATED ABOVE. ALL DEPTHS ARE IN U.S. SURVEY FEET.

AUTOMATED EQUIPMENT USED
 POSITIONING: TRIMBLE DCP5
 SOFTWARE: COASTAL OCEANOGRAPHICS
 SONIC SOUNDER: INNERSPACE 448

- NOTES:**
- GAGES USED WERE REFERENCED FROM A 4.9 FT. MARK ON NORTHEAST WALL OF THE JEFFERSON STREET BRIDGE. SET OFF THE NGS BM D-10.
 - POSITIONS WERE DETERMINED BY G.P.S. REFERENCE BEACON 838, LOCATED AT FORT WAYNE DETROIT, MICHIGAN. FREQUENCY 319 KHZ. 200 BPS.
 - TRANSUCER FREQUENCY USED TO MEASURE DEPTH DATA WAS 208 KHZ AND THE BEAM ANGLE WAS 3.0 DEGREES.



1.	23 JUNE 2008	UPDATED NOTES	RWP
2.	23 JUNE 2008	PLACE SOUNDINGS AND CONTOUR	RWP
NO.	DATE	REVISION	BY
U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN			
DRAWN BY: RWP		ROUGE RIVER, MICH.	
DESIGNED BY:		CONDITION SOUNDINGS	
CHECKED BY:		C.S. 63+00 TO C.S. 92+00	
REVIEWED:		28 MAY 2008	
		DETROIT AREA OFFICE	
SUBMITTED:	APPROVAL RECOMMENDED:	DATE:	
CHIEF, PROJ. OPNS. SECT	CHIEF, DIST. BRANCH		
APPROVED:		SCALE 1" = 100'	DRAWING NUMBER
CHIEF, CONST. OPNS. DIVISION			rr0308c.dgn