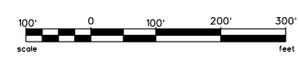
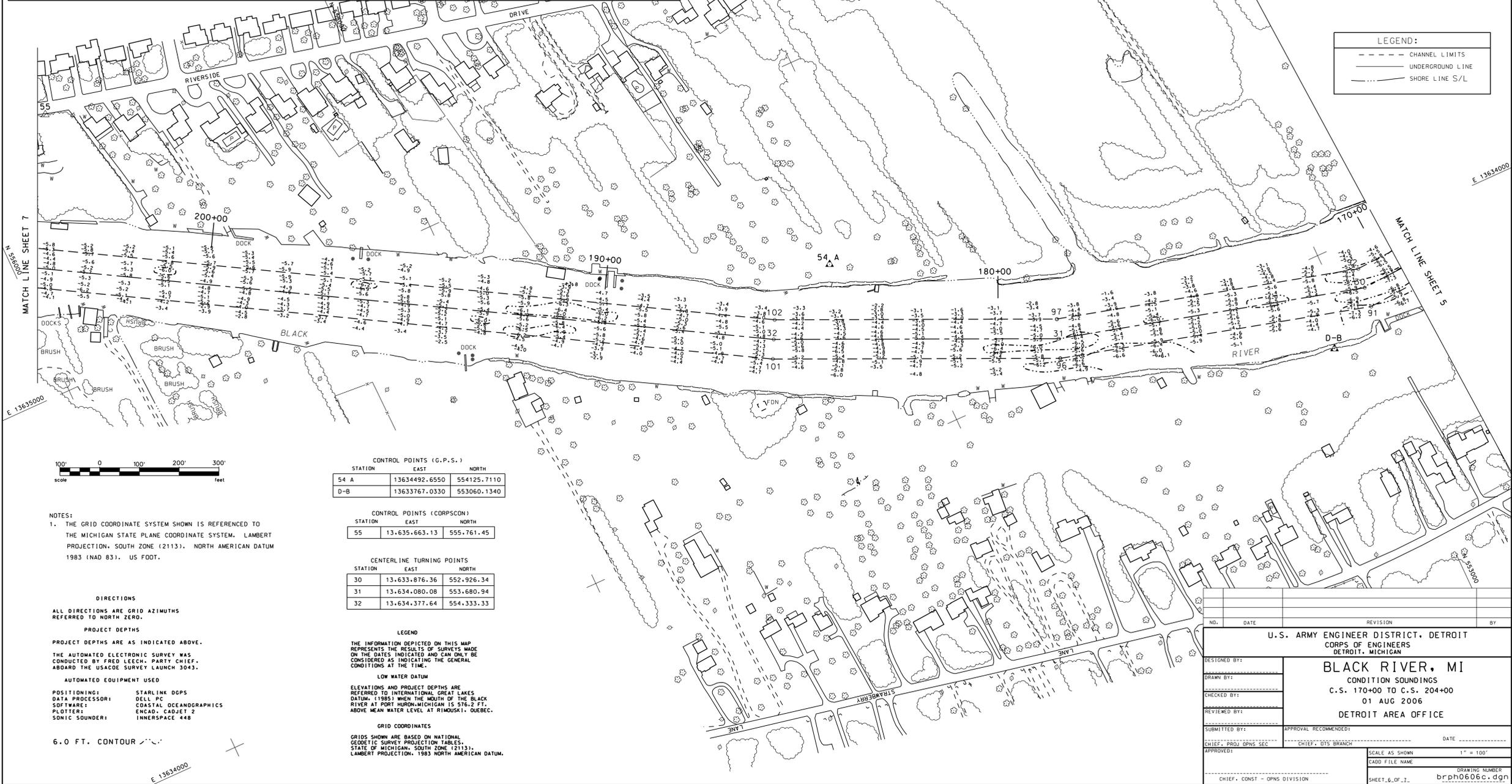


- NOTES:
1. GAGES USED WERE REFERENCED FROM GAGE BOARD SET ON PILING AT THE MOUTH OF THE BLACK RIVER ON THE NORTH SIDE NEAR AN OLD RAILROAD TRESTLE.
 2. POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838, LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ, 200 BPS.
 3. TRANSDUCER FREQUENCY USED TO MEASURE DEPTH DATA WAS 208 KHZ AND THE BEAM ANGLE WAS 3.0 DEGREES.



LEGEND:

- CHANNEL LIMITS
- UNDERGROUND LINE
- SHORE LINE S/L



CONTROL POINTS (C.P.S.)

STATION	EAST	NORTH
54 A	13634492.6550	554125.7110
D-B	13633767.0330	553060.1340

CONTROL POINTS (CORPSCON)

STATION	EAST	NORTH
55	13.635.663.13	555.761.45

CENTERLINE TURNING POINTS

STATION	EAST	NORTH
30	13.633.876.36	552.926.34
31	13.634.080.08	553.680.94
32	13.634.377.64	554.333.33

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) WHEN THE MOUTH OF THE BLACK RIVER AT FORT HURON-MICHIGAN IS 576.2 FT. ABOVE MEAN WATER LEVEL AT RIMOUSKI, QUEBEC.

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

- NOTES:
1. THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983 (NAD 83), US FOOT.

DIRECTIONS
 ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS
 PROJECT DEPTHS ARE AS INDICATED ABOVE.
 THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY FRED LEECH, PARTY CHIEF, ABOARD THE USACOE SURVEY LAUNCH 3043.

AUTOMATED EQUIPMENT USED
 POSITIONING: STARLINK DGPS
 DATA PROCESSOR: DELL PC
 SOFTWARE: COASTAL OCEANOGRAPHICS
 PLOTTER: ENCAD, CADJET 2
 SONIC SOUNDER: INNERSPACE 448

6.0 FT. CONTOUR

NO.	DATE	REVISION	BY

U.S. ARMY ENGINEER DISTRICT, DETROIT
 CORPS OF ENGINEERS
 DETROIT, MICHIGAN

DESIGNED BY: _____
 DRAWN BY: _____
 CHECKED BY: _____
 REVIEWED BY: _____
 SUBMITTED BY: _____

APPROVAL RECOMMENDED: _____
 DATE: _____

CHIEF, PROJ. OPNS. SEC. _____
 CHIEF, DTS BRANCH _____

SCALE AS SHOWN 1" = 100'
 CADD FILE NAME _____
 DRAWING NUMBER brph0606c.dgn
 SHEET 6 OF 7