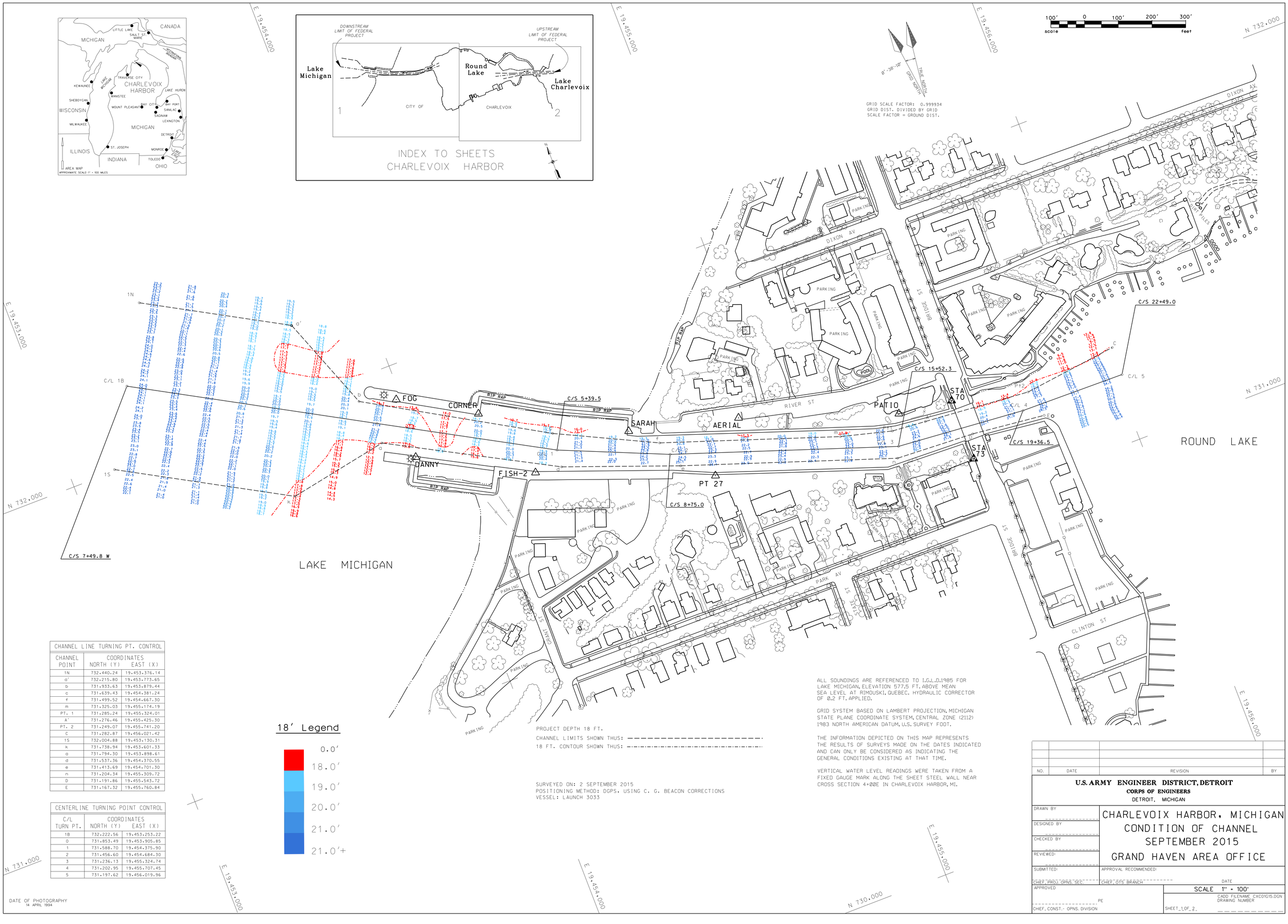

CHANNEL LINE TURNING PT. CONTROL		
CHANNEL POINT	COORDINATES NORTH (Y)	EAST (X)
1N	732.440.24	19.453.376.14
a'	732.215.80	19.453.773.65
b	731.933.63	19.453.879.44
c	731.639.43	19.454.381.24
f	731.499.52	19.454.667.30
m	731.325.03	19.455.174.19
PT. 1	731.285.24	19.455.324.01
A'	731.276.46	19.455.425.30
PT. 2	731.249.07	19.455.741.20
C	731.282.87	19.456.021.42
1S	732.004.88	19.453.130.31
k	731.738.94	19.453.601.33
a	731.794.30	19.453.898.61
d	731.537.36	19.454.370.55
e	731.413.69	19.454.701.30
n	731.204.34	19.455.309.72
D	731.191.86	19.455.543.72
E	731.167.32	19.455.760.84

CENTERLINE TURNING POINT CONTROL		
C/L TURN PT.	COORDINATES NORTH (Y)	EAST (X)
1B	732.222.56	19.453.253.22
0	731.853.49	19.453.905.85
1	731.588.70	19.454.375.90
2	731.456.60	19.454.684.30
3	731.236.13	19.455.324.74
4	731.202.95	19.455.707.45
5	731.197.62	19.456.019.96

18' Legend

- 0.0'
- 18.0'
- 19.0'
- 20.0'
- 21.0'
- 21.0'+

PROJECT DEPTH 18 FT.

CHANNEL LIMITS SHOWN THUS: ————————————————

18 FT. CONTOUR SHOWN THUS: —·—·—·—·—·—·—·—·—·—·—·—

SURVEYED ON: 2 SEPTEMBER 2015
POSITIONING METHOD: DGPS. USING C. G. BEACON CORRECTIONS
VESSEL: LAUNCH 3033

ALL SOUNDINGS ARE REFERENCED TO I.G.L.D.1985 FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC. HYDRAULIC CORRECTOR OF 0.2 FT. APPLIED.

GRID SYSTEM BASED ON LAMBERT PROJECTION, MICHIGAN STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (2112) 1983 NORTH AMERICAN DATUM, U.S. SURVEY FOOT.

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 EXISTING AT THAT TIME.

VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAUGE MARK ALONG THE SHEET STEEL WALL NEAR CROSS SECTION 4+00E IN CHARLEVOIX HARBOR, MI.

DATE OF PHOTOGRAPHY
14 APRIL 1994

NO.	DATE	REVISION	BY

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

DRAWN BY
DESIGNED BY
CHECKED BY
REVIEWED:
SUBMITTED: CHIEF, PROJ. OPNS. SEC.
APPROVAL RECOMMENDED: CHIEF, OTS BRANCH
DATE
APPROVED PE CHIEF, CONST.- OPNS. DIVISION

CHARLEVOIX HARBOR, MICHIGAN
CONDITION OF CHANNEL
SEPTEMBER 2015
GRAND HAVEN AREA OFFICE

SCALE 1" = 100'
CADD FILENAME CXC01G15.DGN
DRAWING NUMBER
SHEET 1 OF 2