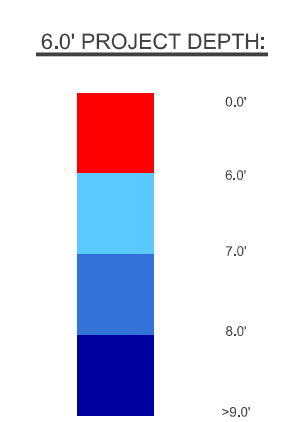




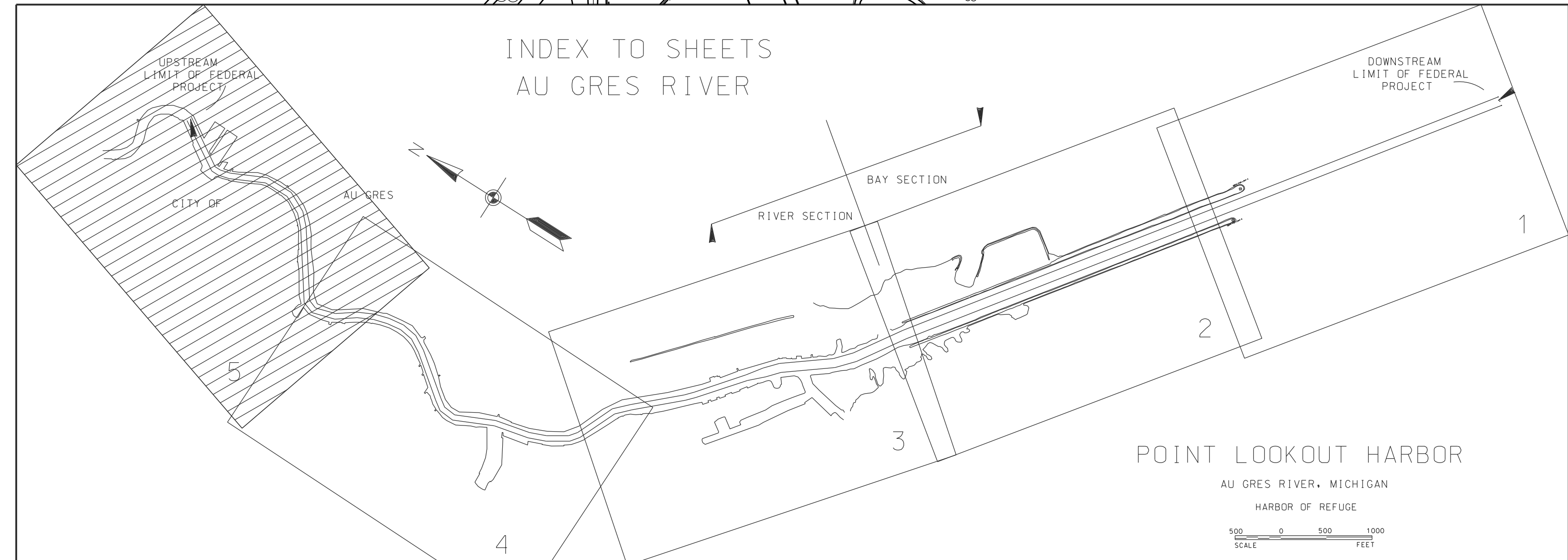
US Army Corps of Engineers



- NOTES:
- 1) THE SOUNDINGS AND ASSOCIATED INFORMATION REPRESENTED HEREIN ARE THE RESULT OF SURVEYS MADE ON THE DATE AS INDICATED AND CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE GENERAL CONDITIONS EXISTING AT THE TIME OF SURVEY.
 - 2) THE SOUNDINGS DEPICTED HEREIN ARE EXPRESSED IN U.S. SURVEY FEET AND TENTHS THEREOF AND ARE REFERENCED TO THE FOLLOWING DATUMS:
 HORIZONTAL: MICHIGAN STATE PLANE COORDINATE SYSTEM, MICHIGAN SOUTH ZONE #2113, NORTH AMERICAN DATUM (NAD) OF 1983.
 VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985, LWD=577.5
 - 3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL BOULTON EMPLOYING THE FOLLOWING COMPONENTS:
 POSITIONING: APPLANIX POS-MV W/VRS-RTK
 MOTION COMPENSATION: POS-MV MRU
 SONAR: ODOM CV-300
 SOFTWARE: HYPACK 2017
 - 4) TIDE CORRECTION VALUES REFERENCED FROM A PAINT MARK ON THE SEAWALL DESCRIBED AS "TBM STEEL CORNER," LOCATED ON TOP OF A STEEL WALL AND AT THE DOWNSTREAM END OF SAID WALL (SHEET 3), IGLD 85 ELEVATION = 582.18'.



6.0 ft. PROJECT DEPTH CONTOUR



CENTERLINE		
STATION NUMBER	COORDINATES NORTH	COORDINATES EAST
24	927,056.37	13,301,020.53
25	927,171.97	13,301,061.22
26	927,638.85	13,301,125.78
27	927,758.01	13,301,847.35
28	927,964.36	13,301,947.79
29	928,257.32	13,301,945.88
30	928,622.82	13,301,770.59
31	928,738.80	13,301,740.47
32	928,815.10	13,301,739.84
33	929,329.42	13,302,060.61
34	929,410.96	13,302,067.24

HORIZONTAL GROUND CONTROL		
STATION NUMBER	COORDINATES NORTH	COORDINATES EAST
AU-1	928,009.39	13,301,887.52
AU-2	929,498.74	13,302,114.49
AUG-STATE-DOCK	929,171.01	13,301,705.66
AUG-H & H	929,237.86	13,302,543.36

CHANNEL LINE		
STATION NUMBER	COORDINATES NORTH	COORDINATES EAST
51	927,057.14	13,300,988.99
52	927,055.61	13,301,052.07
53	927,191.00	13,301,036.11
54	927,152.95	13,301,086.32
55	927,662.20	13,301,706.54
56	927,615.86	13,301,745.02
57	927,775.81	13,301,822.65
58	927,740.21	13,301,872.06
59	927,971.48	13,301,917.74
60	927,957.86	13,301,977.83
61	928,250.38	13,301,915.92
62	928,264.21	13,301,975.84
63	928,612.46	13,301,742.28
64	928,633.17	13,301,798.90
65	928,734.80	13,301,710.51
66	928,742.79	13,301,770.43
67	928,817.43	13,301,709.60
68	928,812.77	13,301,769.67
69	929,344.03	13,302,031.69
70	929,324.04	13,302,090.27
71	929,406.70	13,302,036.79
72	929,415.23	13,302,097.69

DATE OF SURVEY: 20180705	PROJECT NO.: 18030
DATE OF PLOT: 20180705	CONTRACT NO.: 18030
DATE OF PRINT: 20180705	FILE NUMBER: 18030
DATE OF REVISION: 20180705	REVISION: 1

POINT LOOKOUT
 AU GRES, MICHIGAN
 CONDITION SURVEY
 25 JUL 2018

SHEET IDENTIFICATION
 SHEET 5 OF 5