NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

2. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). LOW WATER DATUM ZERO IS 577.5 FEET ABOVE MEAN WATER LEVEL AT FATHER POINT QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED GAUGE LOCATED AT BURNS HARBOR INDIANA. DEPTHS ARE MEASURED USING AN R2SONIC 2024 MULTIBEAM SONAR.

3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON APRIL 8, 2013 CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.

4. HORIZONTAL POSITIONING IS DETERMINED USING THE DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS). THE DIFFERENTIAL CORRECTIONS ARE PROVIDED BY U.S. COAST GUARD DIFFERENTIAL BROADCAST STATIONS. SIGNAL STRENGTH IS USED AS THE DETERMINING FACTOR IN DIFFERENTIAL SELECTION. THE DGPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE MODEL POS/MV VER 4.0

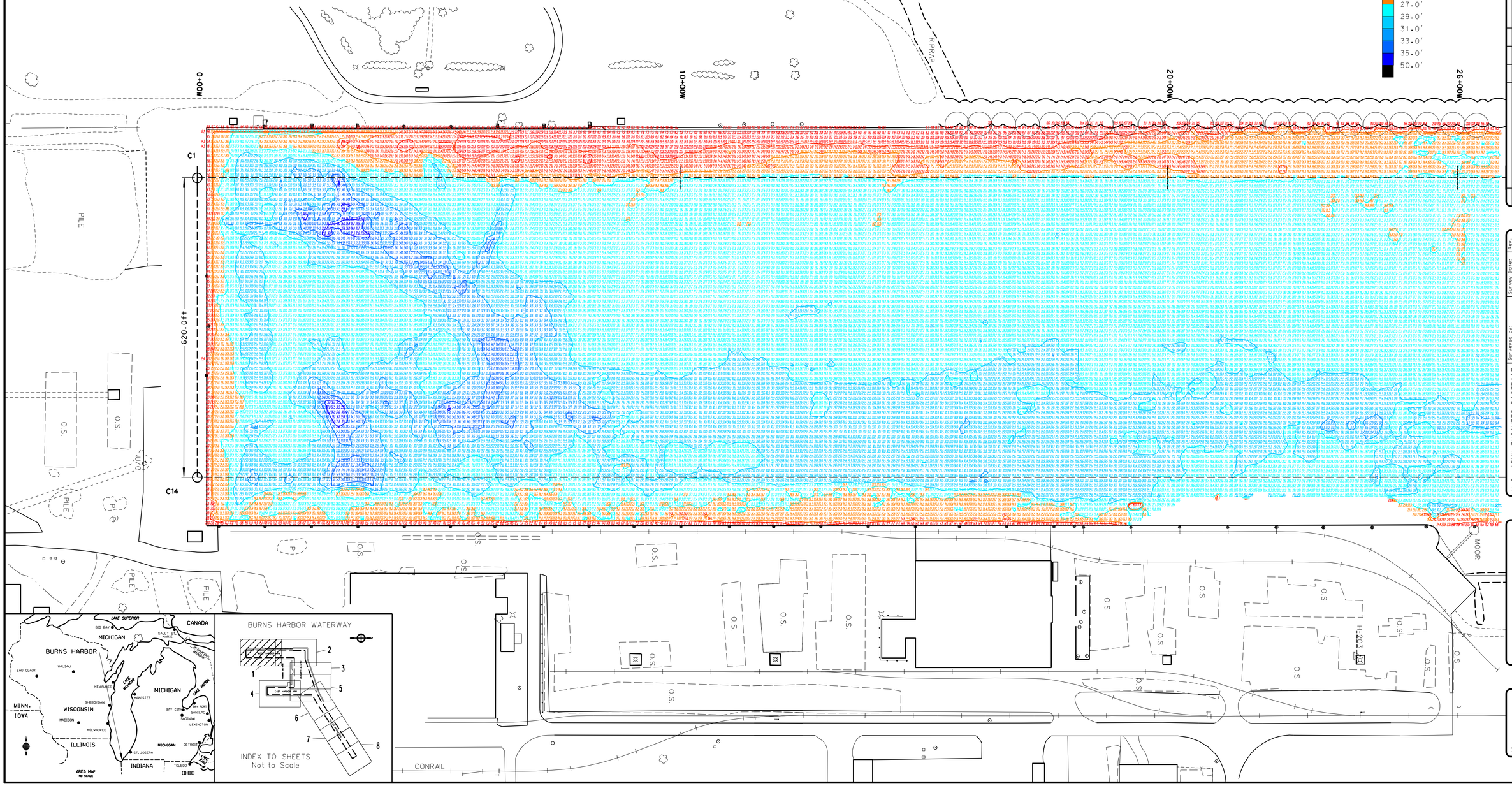
5. GRID COORDINATES ARE BASED ON THE INDIANA STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, INDIANA WEST ZONE (1302). NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.

6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 27.0' BELOW LOW WATER DATUM.

US Army Corps of Engineers
Chicago District

100' 50' 0 100' 200'
SCALE: 1"=100'

LEGEND
0.0'
23.0'
25.0'
27.0'
29.0'
31.0'
33.0'
35.0'
50.0'



Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Survey Date: April 8, 2013
Rev.
Design File name:
Drawing code:
File name:
Plot date:
Plot scale: 1"=100'

Surveyed by: J. Mrozek
Dwn by: S. Wu
Ckd by:
Reviewed by:
Checked by:
Submitted by:
Approved by:

Approval Recommended:
Chief, Geo. Sciences Branch
Chief, Rec. Mgmt.
Chief, Sur. Section
District Engineer

BURNS WATERWAY HARBOR
FEDERAL NAVIGATION CHANNEL
PORTAGE INDIANA

BURNS HARBOR
WEST HARBOR ARM
C.S. 0+00 TO C.S. 26+00
CONDITION SURVEY

Sheet reference number:
BHW-01
Sheet 01 of 08

NOTES

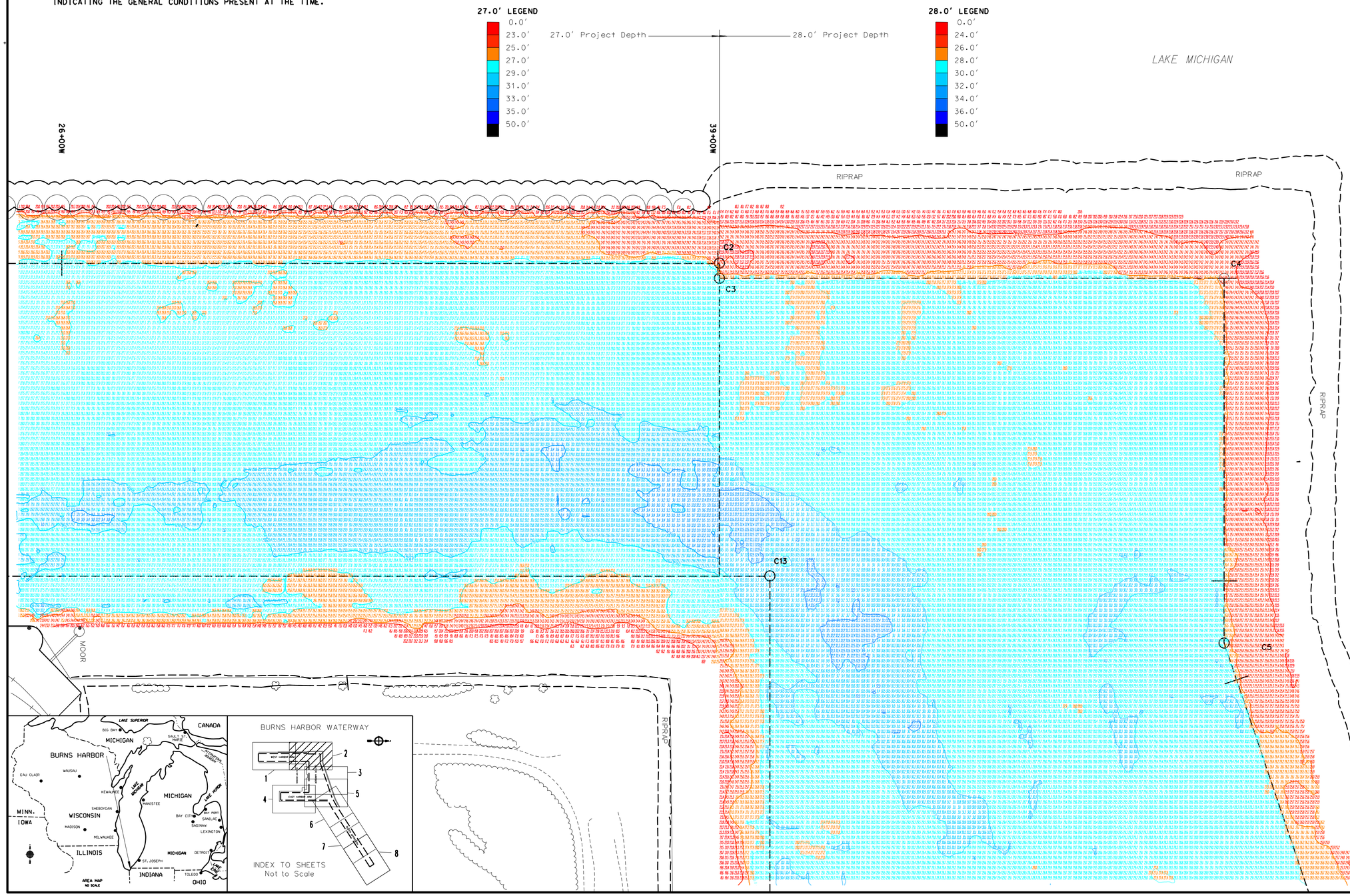
1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

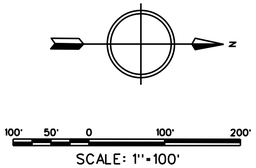
2. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). LOW WATER DATUM ZERO IS 577.5 FEET ABOVE MEAN WATER LEVEL AT FATHER POINT QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED GAUGE LOCATED AT BURNS HARBOR INDIANA. DEPTHS ARE MEASURED USING AN R2SONIC 2024 MULTIBEAM SONAR.

3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON APRIL 19, 2012 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.

4. HORIZONTAL POSITIONING IS DETERMINED USING THE DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS). THE DIFFERENTIAL CORRECTIONS ARE PROVIDED BY U.S. COAST GUARD DIFFERENTIAL BROADCAST STATIONS. SIGNAL STRENGTH IS USED AS THE DETERMINING FACTOR IN DIFFERENTIAL SELECTION. THE DGPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE MODEL POS/MV VER 3.0

5. GRID COORDINATES ARE BASED ON THE INDIANA STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, INDIANA WEST ZONE (1302), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.





US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

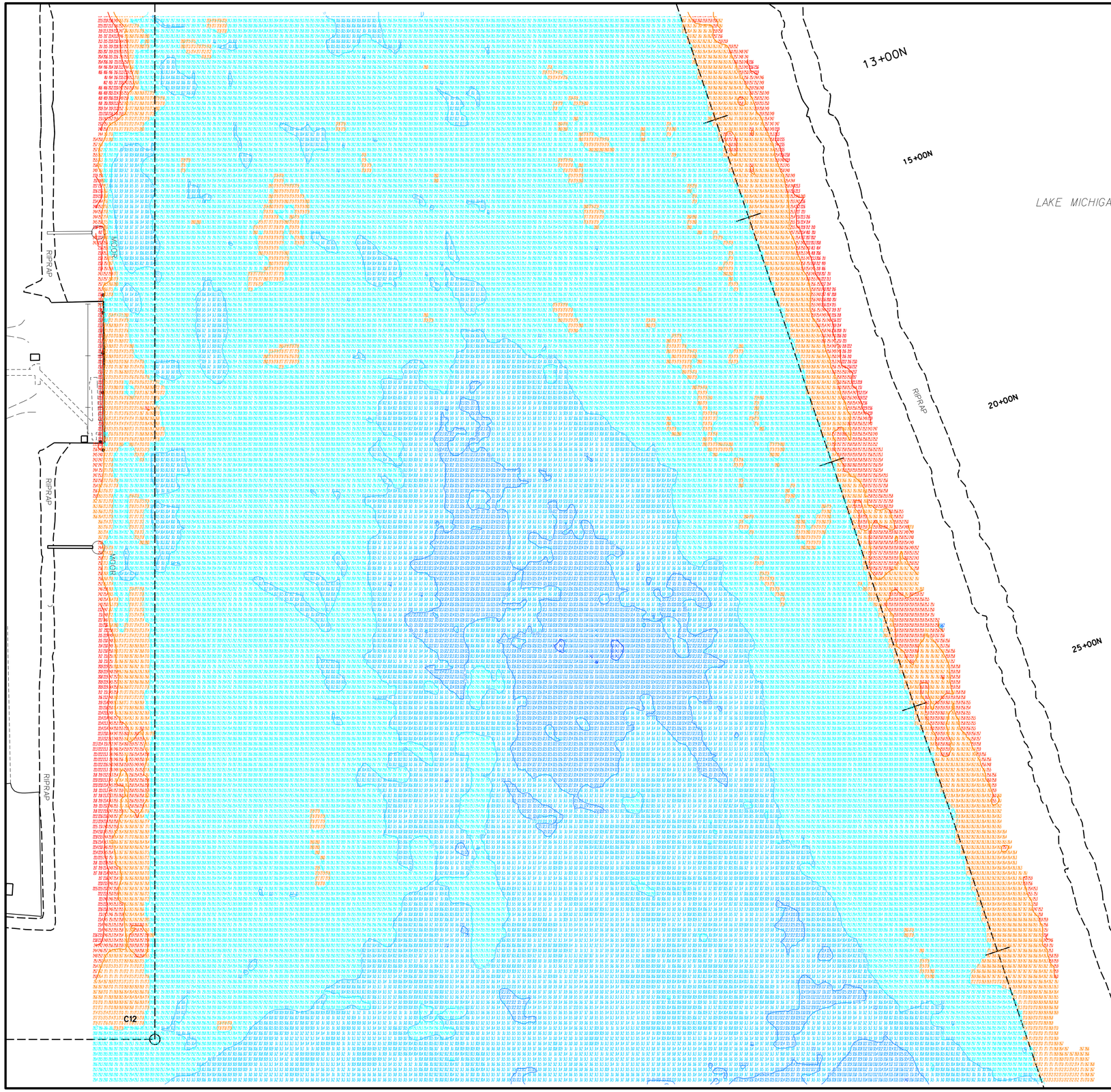
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

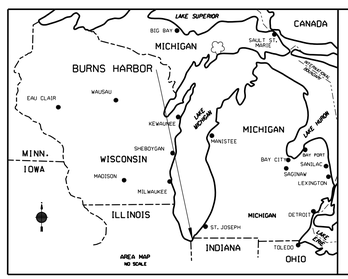
Surveyed by: J. Mrozek	Survey Date: April 8, 2013
Dwn by:	Design file name:
Chkd by:	Drawing code:
Reviewed by:	
Chief, Eng. Mgmt.	File name:
Chief, Hydr. Section	Plot date:
Supervised by:	Plot scale: 1"=100'
Approved by:	
Approved Recommended:	
Chief, Coast. Office	
District Engineer	

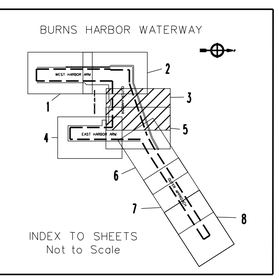
BURNS WATERWAY HARBOR
FEDERAL NAVIGATION CHANNEL
PORTAGE INDIANA

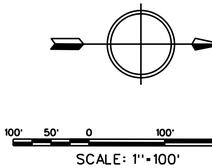
BURNS HARBOR
WEST HARBOR ARM
OUTER HARBOR
CONDITION SURVEY

Sheet reference number:
BHW-02
Sheet 02 of 08









LEGEND

0.0'
24.0'
26.0'
28.0'
30.0'
32.0'
34.0'
36.0'
50.0'

NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.
2. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). LOW WATER DATUM ZERO IS 577.5 FEET ABOVE MEAN WATER LEVEL AT FATHER POINT QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED GAUGE LOCATED AT BURNS HARBOR INDIANA. DEPTHS ARE MEASURED USING AN R2SONIC 2024 MULTIBEAM SONAR.
3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON APRIL 8, 2013 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.
4. HORIZONTAL POSITIONING IS DETERMINED USING THE DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS). THE DIFFERENTIAL CORRECTIONS ARE PROVIDED BY U.S. COAST GUARD DIFFERENTIAL BROADCAST STATIONS. SIGNAL STRENGTH IS USED AS THE DETERMINING FACTOR IN DIFFERENTIAL SELECTION. THE DGPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE MODEL POS/MV VER 4.0
5. GRID COORDINATES ARE BASED ON THE INDIANA STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, INDIANA WEST ZONE (1302), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S.SURVEY FEET.
6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 28.0' BELOW LOW WATER DATUM.

US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.

Symbol	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

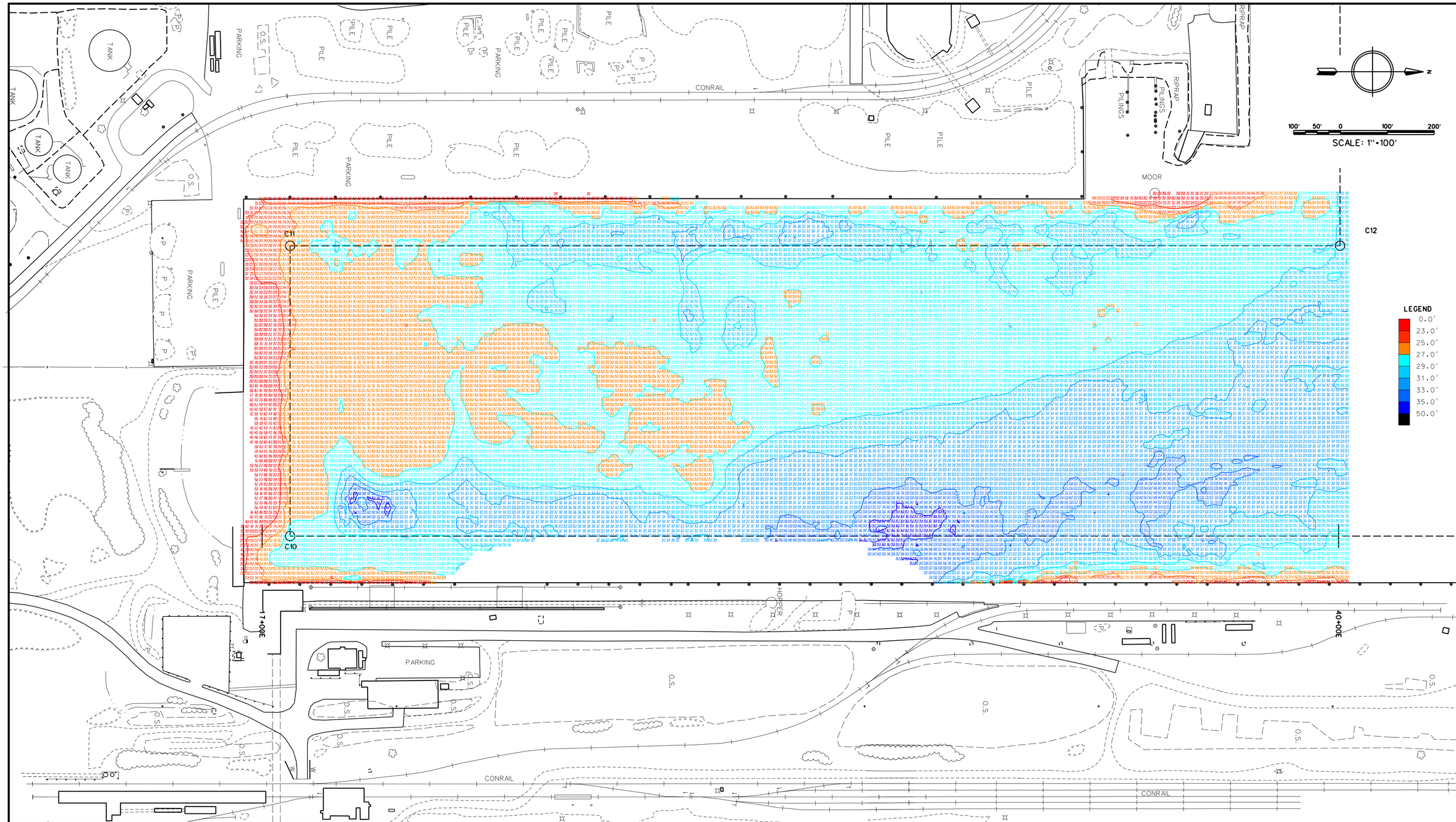
Surveyed by: J. Mrozek
Dwn by: J.S.M.
Ckd by:
Reviewed by:
Chief, Tac. Mgmt.
Submitted by:
Chief, NWR Section
Survey Date: April 8, 2013
Rev.
Design file name:
Drawing code:
File name:
Plot date:
Plot scale: 1"=100'

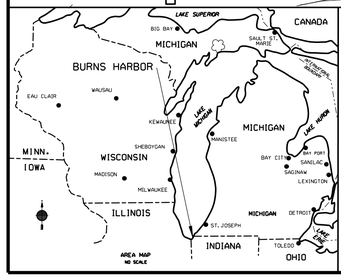
Approval Recommended:
Area Eng. Sco Office
Approved by:
District Engineer

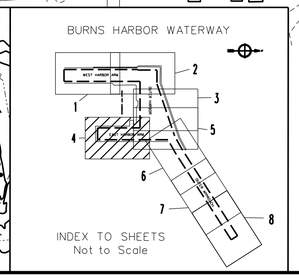
BURNS WATERWAY HARBOR
FEDERAL NAVIGATION CHANNEL
PORTAGE INDIANA

BURNS HARBOR
OUTER HARBOR
CONDITION SURVEY

Sheet reference number:
BHW-03
Sheet 03 of 08







NOTES

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3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON APRIL 9, 2013 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.
4. HORIZONTAL POSITIONING IS DETERMINED USING THE DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS). THE DIFFERENTIAL CORRECTIONS ARE PROVIDED BY U.S. COAST GUARD DIFFERENTIAL BROADCAST STATIONS. SIGNAL STRENGTH IS USED AS THE DETERMINING FACTOR IN DIFFERENTIAL SELECTION. THE DGPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE MODEL POS/MV VER 4.0
5. GRID COORDINATES ARE BASED ON THE INDIANA STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, INDIANA WEST ZONE (1302), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 27.0' BELOW LOW WATER DATUM.

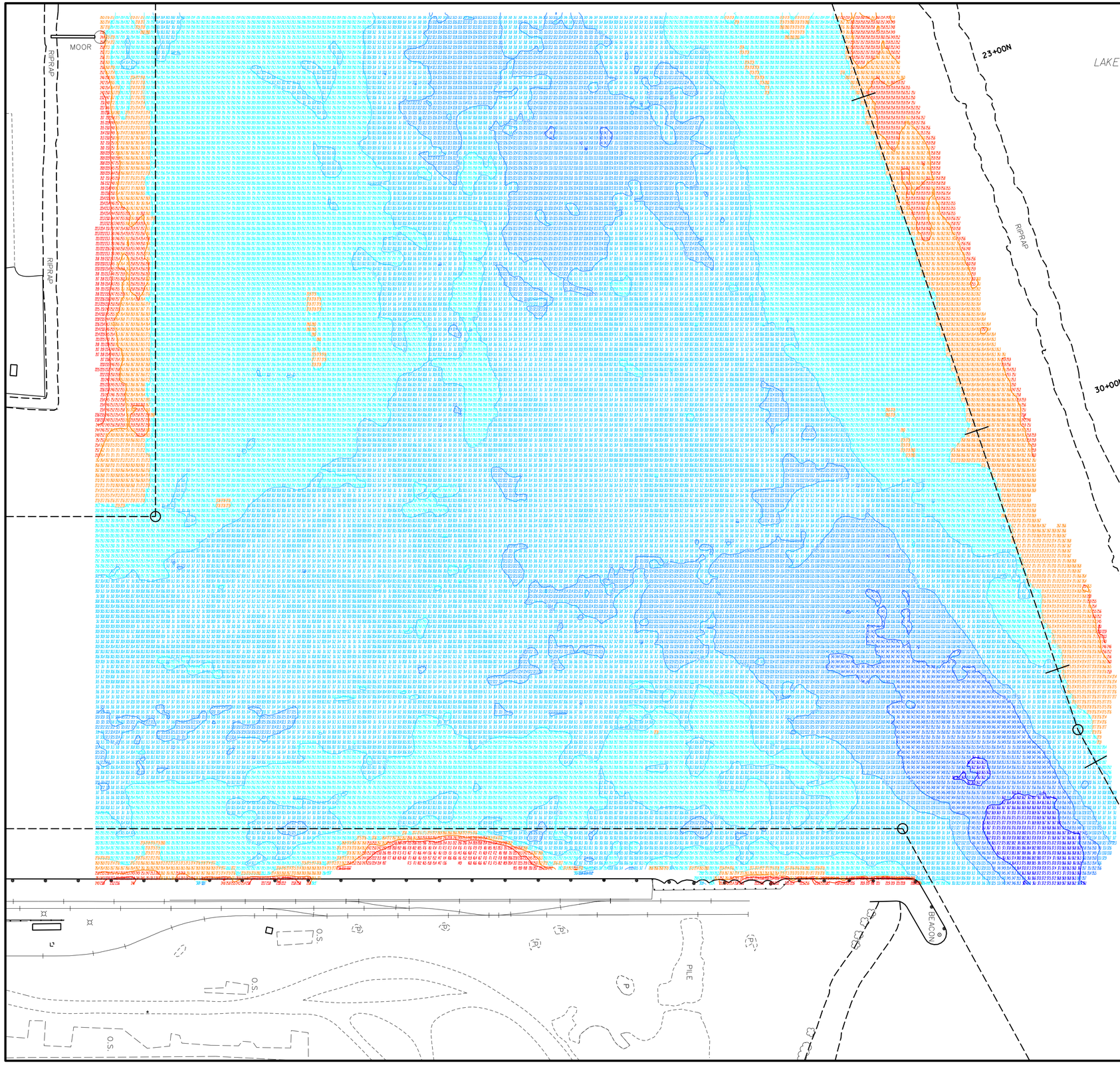
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

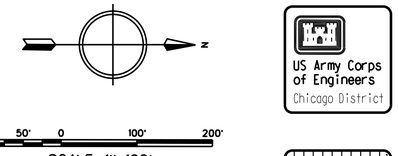
Surveyed by: J. Mrozek
Dwn by: J.S.M.
Ckd by:
Rev. Date: April 9, 2013
Rev. Reviewed by:
Chief, Eng. Mgmt.
Submitted by:
Chief, SMR Section
Approval Recommended:
Area Eng. Sco Office
Approved by:
District Engineer:
Survey Date: April 9, 2013
Design file name:
Drawing code:
File name:
Plot date:
Plot scale: 1"=100'

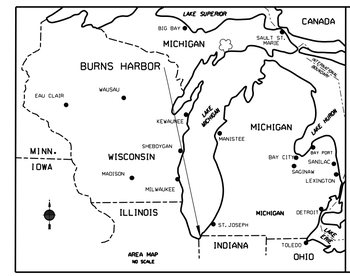
BURNS WATERWAY HARBOR
FEDERAL NAVIGATION CHANNEL
PORTAGE INDIANA

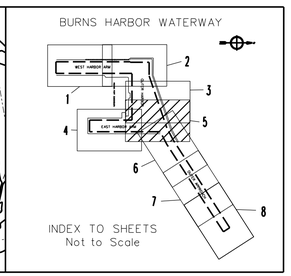
BURNS HARBOR
EAST HARBOR ARM
C.S. 17+00 to C.S. 40+00
CONDITION SURVEY

Sheet reference number:
BHW-04
Sheet 04 of 08









NOTES

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5. GRID COORDINATES ARE BASED ON THE INDIANA STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, INDIANA WEST ZONE (1302), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S.SURVEY FEET.
6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 28.0' BELOW LOW WATER DATUM.

LEGEND

- 0.0'
- 24.0'
- 26.0'
- 28.0'
- 30.0'
- 32.0'
- 34.0'
- 36.0'
- 50.0'

US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Approv.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Surveyed by: J. Mrozek	Survey Dates: April 8, 2013
Dwn by: S. Cook	Ckd by:
Design File name:	
Drawing code:	
Reviewed by:	Chief, Hydr. Mgmt.
Approved by: Army Corps Chicago District	Supervised by: District Engineer
Approval Recommended:	Chief, Sur Section
Rev.	
File name:	
Plot date:	
Plot scale:	

BURNS WATERWAY HARBOR
FEDERAL NAVIGATION CHANNEL
PORTAGE INDIANA

BURNS HARBOR
OUTER HARBOR
CONDITION SURVEY

Sheet reference number:
BHW-05
Sheet 05 of 08

NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS.

2. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). LOW WATER DATUM ZERO IS 577.5 FEET ABOVE MEAN WATER LEVEL AT FATHER POINT QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED GAUGE LOCATED AT BURNS HARBOR INDIANA. DEPTHS ARE MEASURED USING AN R2SONIC 2024 MULTIBEAM SONAR.

3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON APRIL 8, 2013 CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.

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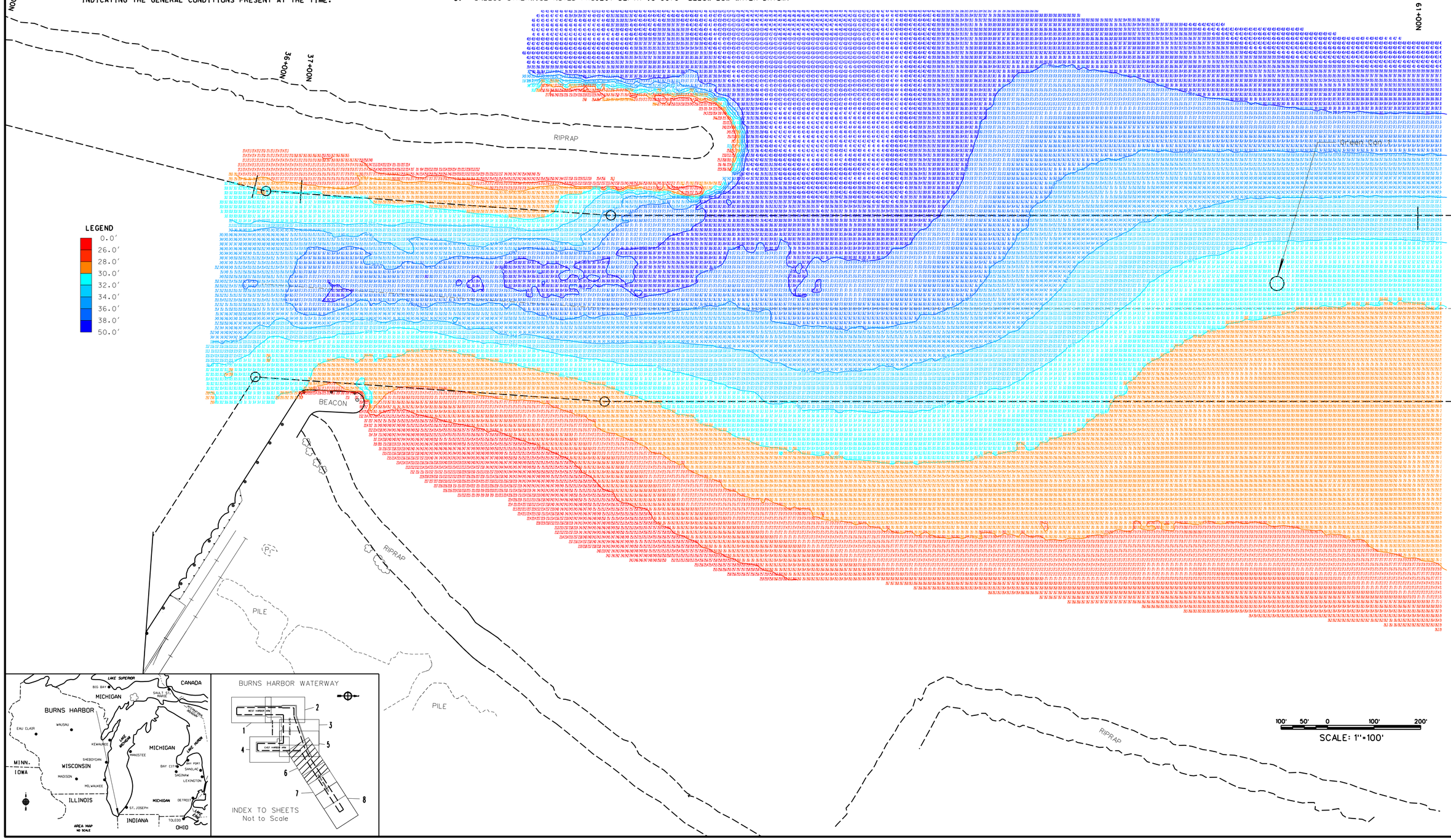
5. GRID COORDINATES ARE BASED ON THE INDIANA STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, INDIANA WEST ZONE (1302), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.

6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 30.0' BELOW LOW WATER DATUM.



US Army Corps of Engineers
Chicago District

Symbol	Description	Date Appr.	Symbol	Description	Date Appr.	Symbol	Description	Date Appr.

Surveyed by: J. Mrozek
Dwn by: Ckd by:
Drawing code:
Reviewed by:
Survey date: April 8, 2013
Design file name:
File name:
Plot date: 6-4-13
Plot scale: AS SHOWN

Chief, Eng. Div.
Chief, Hydr. Sect.
Chief, Mgmt. Sect.
Chief, Ops. Sect.

Approval Recommended:
Approved by:
Area Eng. Ops. Office
District Engineer

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

BURNS WATERWAY HARBOR
BURNS WATERWAY CHANNEL
FEEDER BASIN
PORTAGE INDIANA

OUTER APPROACH
C.S. 36+00 TO C.S. 61+00
2013 CONDITION SURVEY

Sheet reference number:
BHW-06
Sheet 06 of 08

NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS.

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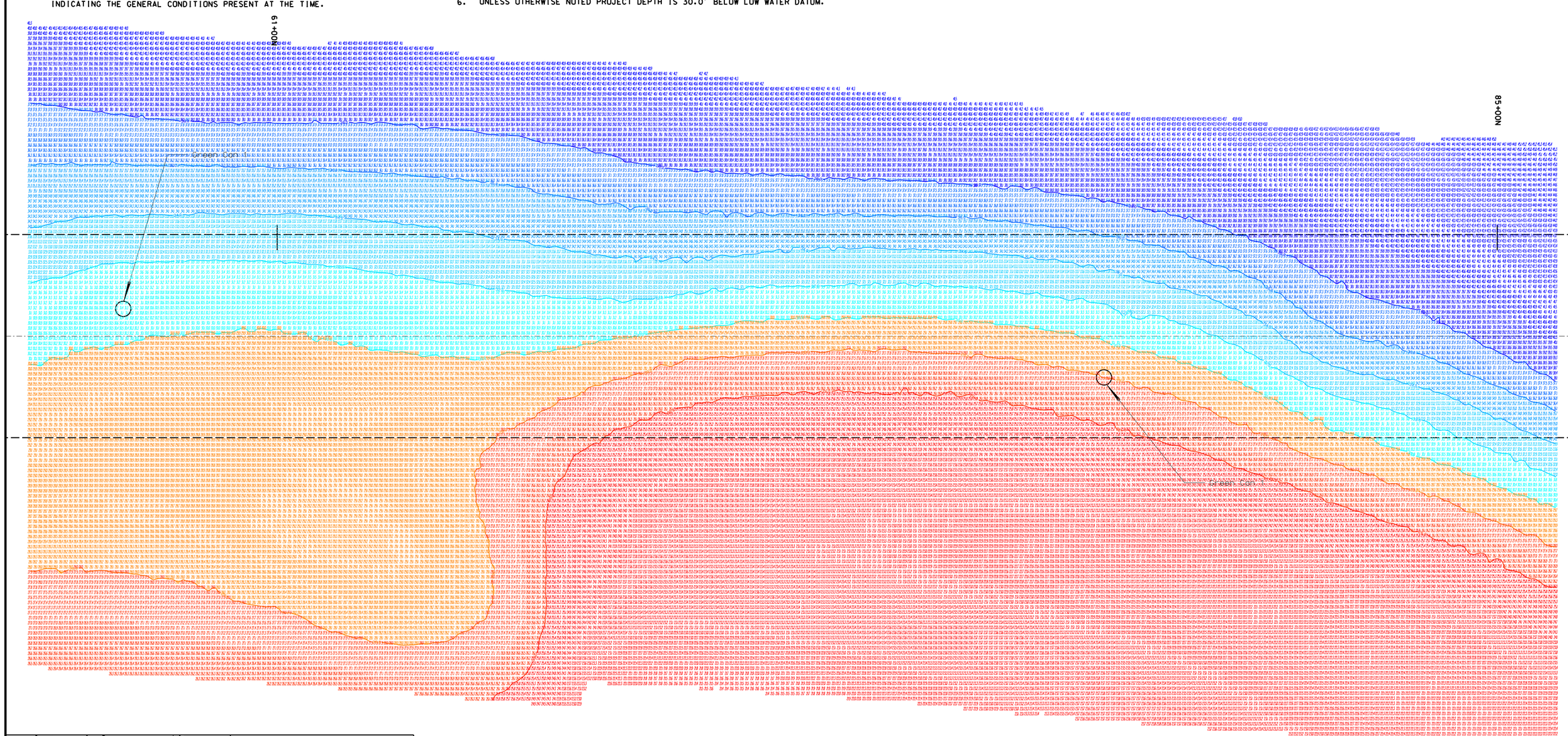
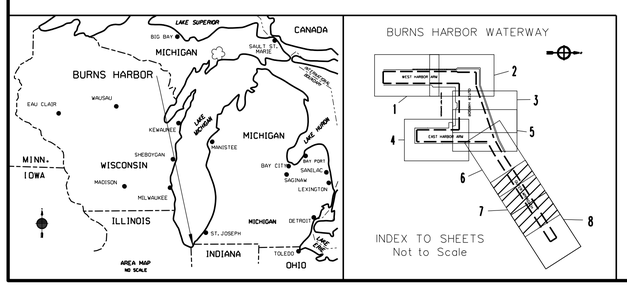
6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 30.0' BELOW LOW WATER DATUM.





LEGEND

	0.0'
	26.0'
	28.0'
	30.0'
	32.0'
	34.0'
	36.0'
	38.0'
	50.0'

100' 50' 0 100' 200'

SCALE: 1"=100'

US Army Corps of Engineers
Chicago District

Symbol	Description	Date Appr.	Symbol	Description	Date Appr.	Symbol	Description	Date Appr.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Surveyed by: J. Becker		Survey Date: April 8, 2013	Rev.
Dwn by: CHR	Ckd by:	Design File name:	
Reviewed by:		Drawing code:	
Chief, Fac. Mgmt. Sec.		File name:	
Chief, Sum Section		Plot date: 6-4-13	
Approved by: Troy King, Geo Office	Submitted by:	Plot scale: AS SHOWN	
District Engineer			

BURNS WATERWAY HARBOR
FEDERAL NAVIGATION CHANNEL
PORTAGE INDIANA

OUTER APPROACH
C.S. 61+00 to C.S. 85+00
2013 CONDITION SURVEY

Sheet reference number:
BHW-07
Sheet 07 of 08

NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS.

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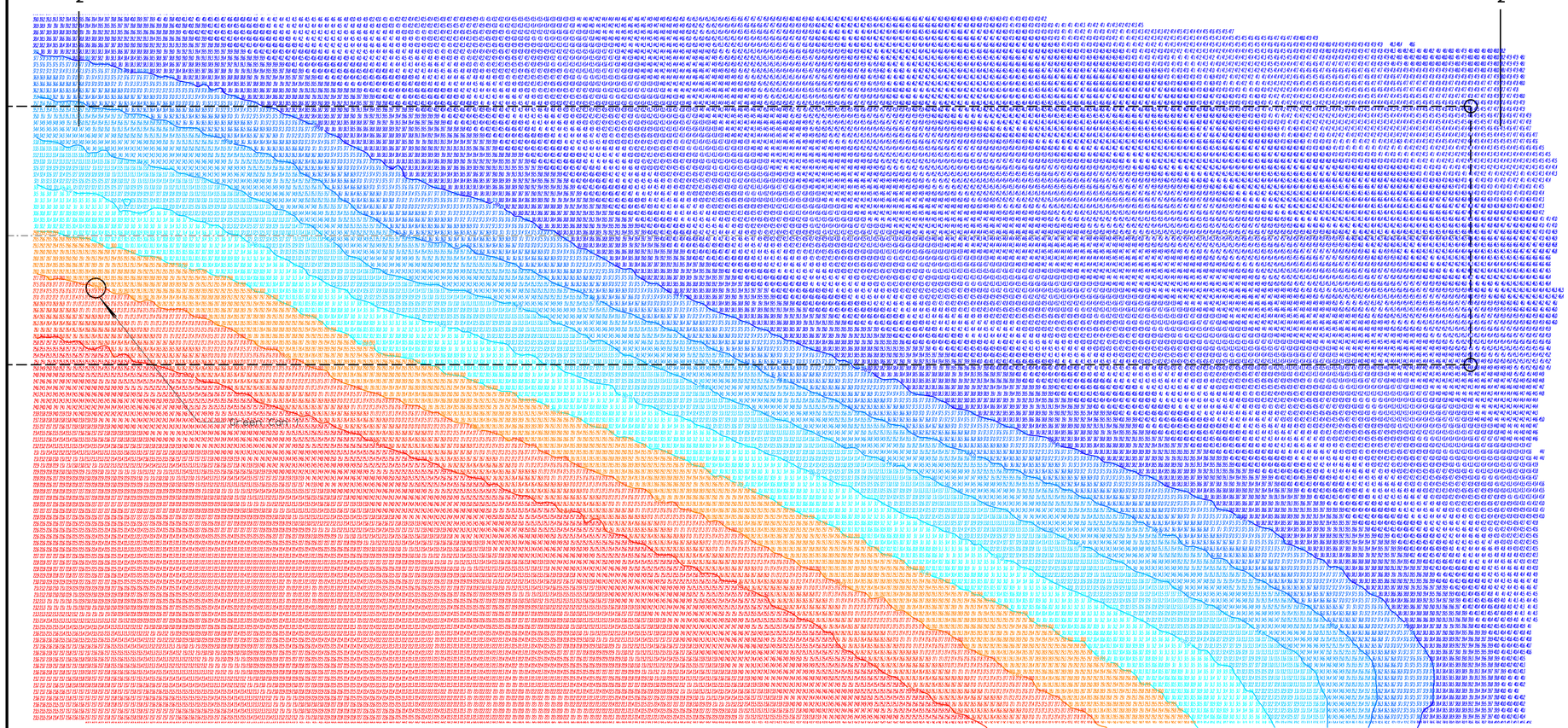
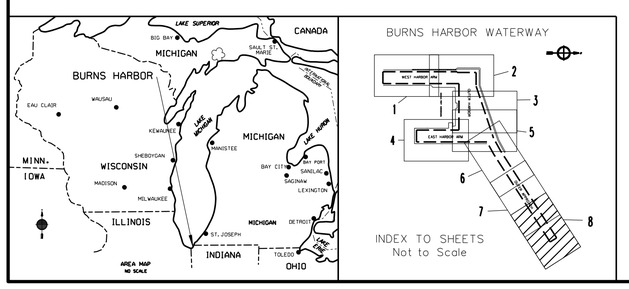
5. GRID COORDINATES ARE BASED ON THE INDIANA STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, INDIANA WEST ZONE (1302), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.

6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 30.0' BELOW LOW WATER DATUM.





US Army Corps of Engineers
Chicago District

Approval Recommended:	Date	Approval Symbol	Description	Date	Approval Symbol	Description	Date	Approval Symbol	Description	Date	Approval Symbol	Description	Date	Approval Symbol	Description
Design Engineer:															
Approved by:															
District Engineer:															

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Surveyed by: J. Mrozek	Survey Date: April 8, 2013	Rev.	
Dwn by:	Chd by:	Design File name:	
Plan coord:		Drawing code:	
Reviewed by:	Submitted by:	File name:	
Checked by:	Checked by:	Plot date: 6-4-13	
Plot scale: 1"=100'		Plot scale: AS SHOWN	

BURNS WATERWAY HARBOR
FEDERAL NAVIGATION CHANNEL
PORTAGE INDIANA

OUTER APPROACH
C.S. 77+00 to C.S. 99+00
2013 CONDITION SURVEY

LEGEND

0.0'
26.0'
28.0'
30.0'
32.0'
34.0'
36.0'
38.0'
50.0'

100' 50' 0 100' 200'
SCALE: 1"=100'

Sheet reference number:
BHW-08
Sheet 08 of 08