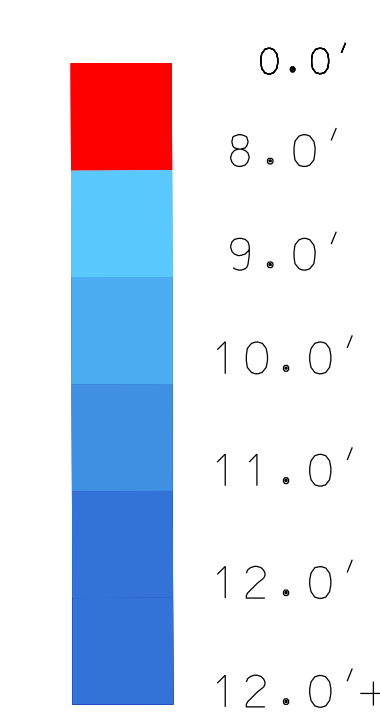


**8' Legend**



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 EXISTING AT THAT TIME.

ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL I.G.L.D. 1985.

HORIZONTAL GRID SYSTEM IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983 (NAD83), US FOOT.

THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING LINE DRAWINGS DATED APRIL 1976 AND ARE OUTDATED AND INACCURATE.

ALL NAD83 GRID AND COORDINATE DATA USED FOR THIS SHEET WERE CONVERTED FROM NAD27 COORDINATES USING CORPSCON VERSION 3.01 SOFTWARE.

VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAUGE MARK ALONG THE SHEET STEEL WALL IN THE GRAND HAVEN GOVERNMENT BASIN.

**CHANNEL LINE COORDINATES**

POINT	EASTING	NORTHING
CLL12	12,640,053.69	572,892.53
CLP12	12,640,036.63	572,845.30
CLR12	12,640,019.58	572,798.06
CLL13	12,641,185.27	572,360.75
CLP13	12,641,161.65	572,316.60
CLR13	12,641,136.07	572,273.38
CLL13A	12,642,068.04	571,774.36
CLP13A	12,642,009.45	571,693.23
CLL14	12,643,083.46	570,978.95
CLP14	12,643,051.85	570,940.55
CLR14	12,643,015.42	570,905.22
CLL14A	12,643,303.27	570,740.57
CLP14A	12,643,224.79	570,678.16
CLR14A	12,643,539.58	570,394.16
CLL14B	12,643,454.64	570,341.24
CLL15	12,643,812.27	569,913.12
CLP15	12,643,766.52	569,892.93
CLR15	12,643,722.39	569,868.90
MTP2	12,639,398.14	573,010.90
MTP3	12,643,806.11	568,244.44

SURVEYED ON: 30 OCTOBER 2018  
 POSITIONING METHOD: DGPS, USING C.G. BEACON CORRECTIONS  
 VESSEL: SKIFF

PROJECT DEPTH 8 FT.  
 CHANNEL LIMITS SHOWN THUS: \_\_\_\_\_  
 8 FT. CONTOUR SHOWN THUS: \_\_\_\_\_

NO.	DATE	REVISION	BY
<b>U.S. ARMY ENGINEER DISTRICT, DETROIT</b> CORPS OF ENGINEERS DETROIT, MICHIGAN			
DRAWN BY: _____		<b>GRAND RIVER, MICHIGAN</b> <b>CONDITION OF CHANNEL</b> <b>OCTOBER 2018</b> <b>GRAND HAVEN AREA OFFICE</b>	
DESIGNED BY: _____			
CHECKED BY: _____			
REVIEWED: _____			
SUBMITTED: _____		APPROVAL RECOMMENDED: _____	
CHIEF, PROJ. OPERS. SEC. _____		CHIEF, OTS BRANCH _____	
APPROVED _____		DATE _____	
PE _____		SCALE 1" = 100 FT.	
CHIEF, CONST. OPNS. DIVISION _____		CADD FILENAME: grand_river_3a_2018.dgn DRAWING NUMBER _____	
		SHEET 3A OF 31	