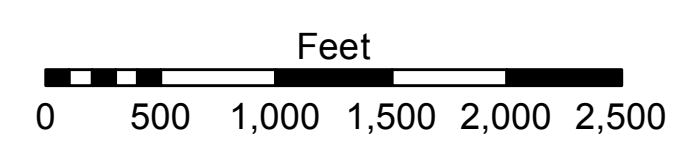
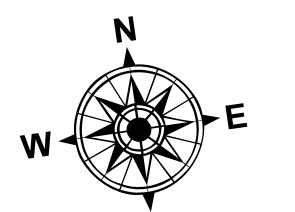


LEGEND

Federal Navigation Channel	Cable Area	Borrow Area	0' and above
Federal Navigation Center Line	Placement Area	Shoalest Sounding**	0' to -5'
As-built Pipeline/Cable	Anchorage Area	Beacon, General	-5' to -10'
Unconfirmed Pipeline/Cable	Obstruction Point	Red Navigation Buoy	-10' to -20'
Project Depth Contour	Wrecks-Submerged	Green Navigation Buoy	-20' to -30'
			-30' to -35'
			-35' to -40'
			-40' to 45'
			-45' and below



LWRP: 1.9
 Gage Reading: BR:31.2D:21.7 USED:27.1 NGVD
 Sea Conditions: SMOOTH
 Vessel Name: LAFORCHE
 Survey Type: RECON
 Sounding Frequency***: HIGH

NOTES:

Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Louisiana South Zone. Distance units in U.S. Survey Feet.

Vertical Datum: Soundings are shown in feet and indicate depths below Low Water Reference Plane 2007 (NGVD). Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.

The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE crew. 2010 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.

Reference is N.O.A. Navigation Chart No. 11370.

** Shoalest Sounding per Quarter per Reach.

*** High frequency (200 kHz) survey data represents the first signal return at a sounding location and will include suspended solids, known as "fluff", if present. Low frequency (20 kHz) survey data normally penetrates through this "fluff" layer to depict elevations of consolidated bottom material. Low frequency accuracies may vary depending on channel conditions and fathometer settings.



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DISCLAIMER: The data represents the results of data collection processing for a specific US Army Corps of Engineers project. It is only valid for its intended use, control, time and accuracy specifications. The user is responsible for the results. The user is advised that the application of the data for other than its intended purpose. Data Collection: Hydrographic survey data is subject to change due to several factors including but not limited to changing hydrographic conditions when developed after the date of the survey. The US Army Corps of Engineers does not assume responsibility for changes in the hydrographic conditions when developed after the date of the survey. The information depicted on this map represents the results of a survey conducted on the ground and is not to be considered as a representation of the general condition existing at this time.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: DJS/SPS
Recommended:	Plotted By: AO
Approved:	Checked By: MK

**MISSISSIPPI RIVER - B.R. TO GULF
GRANADA RECON
MR_10_GRA_20160523
23 May 2016**

**Sheet Reference Number
10 of 97**

Revision Number:
3.8-20150202