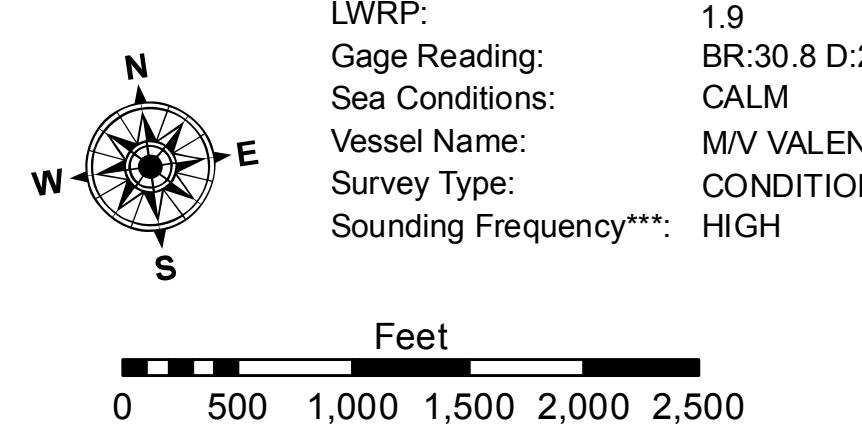


<b>LEGEND</b>	
— Federal Navigation Channel	○ Cable Area
— Federal Navigation Center Line	■ Placement Area
— As-built Pipeline/Cable	□ Anchorage Area
..... Unconfirmed Pipeline/Cable	◎ Obstruction Point
— Project Depth Contour	★ Beacon, General
	◆ Red Navigation Buoy
	◆ Green Navigation Buoy

**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 (NAVD).  
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.  
2015 Aerial Photography data source: NAIP, USDA-FSA-AFPO Aerial Photography Field Office.  
Reference is N.O.A.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.



Distribution liability: The data represents the results of data collection processes of a specific US Army Corps of Engineers activity and indicates the general existing conditions as such. The United States Government makes no warranties, expressed or implied, regarding the accuracy, reliability, or completeness of these data and assumes no responsibility for their use. The user is responsible for the results of any application of the data for other than its intended purpose.

Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoaling and scouring processes. The U.S. Army Corps of Engineers and the National Oceanic and Atmospheric Administration do not warrant the data to be suitable for use in hydrographic surveys which develop after the date of publication. This data is intended for U.S. Army Corps of Engineers internal use. Private individuals should not rely upon it.

U.S. ARMY CORPS OF ENGINEERS	
NEW ORLEANS DISTRICT	
Surveyed By:	RYLAND/ADAMS
Submitted:	
Recommended:	Chief Survey Section
Approved:	Chief Waterways Maintenance Section

**MISSISSIPPI RIVER - B.R. TO GULF**  
**GRANADA CROSSING**  
**MD\_10\_GRA\_20220421\_CS**  
21 April 2022

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