

CURVE 2 DATA
 $\Delta = 30^\circ 25' 35.6462''$
 $D = 00^\circ 44' 58.9198''$
 $T = 2078.3228'$
 $R = 7642.4949'$
 $L = 4058.4995'$

FRONT LIGHT RANGE "A"
 $X=3,511.098$
 $Y=251.889$

HNC FRONT RANGE "B"
 $C = 88455$ (0.0' GAGE)
 DATUM = -0.18' NAVD88
 OPUS2019 (G18) = 0.22'
 MLLW = -1.22' MLG

P.T. 5 1593+24.28
 $X = 3,512.085, 45$
 $Y = 249.031, 80$

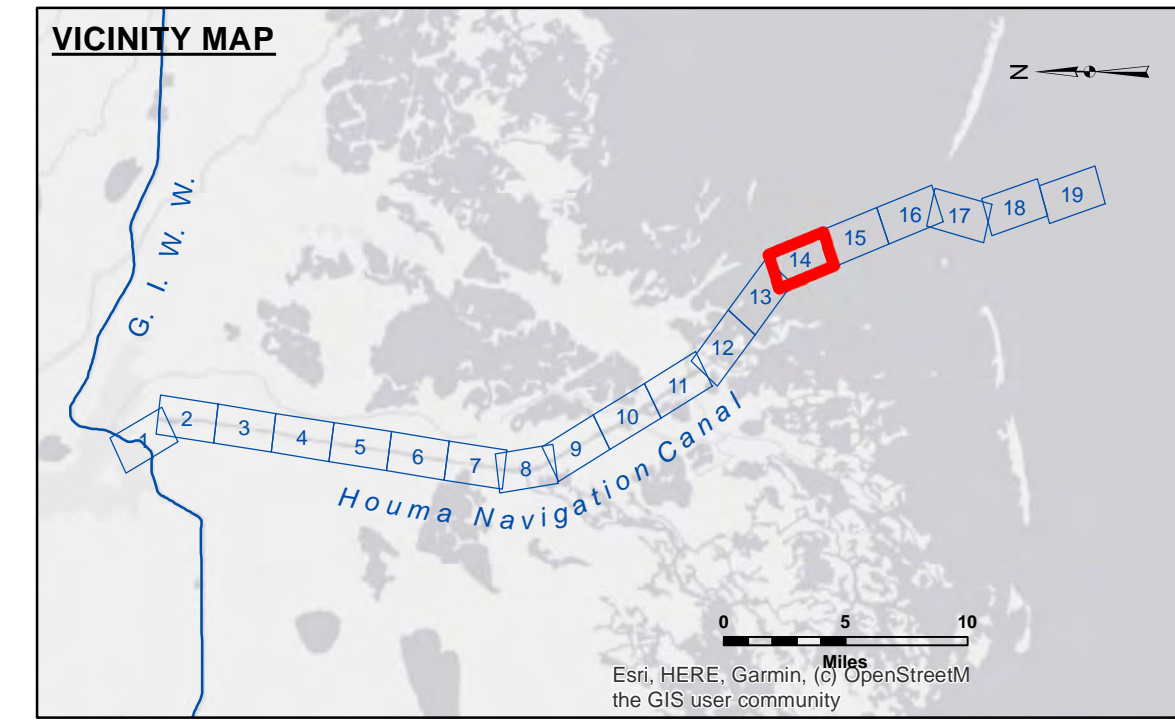
REAR LIGHT RANGE "B"
 $X=3,514.958$
 $Y=248.034$

BURLINGTON RES OIL & GAS
 PROPOSED 16" & 20"

HILCORP ENERGY
 8" PIPELINE EL. -26.0' MLG
 16" PIPELINE EL. -26.0' MLG
 20" PIPELINE EL. -25.0' MLG

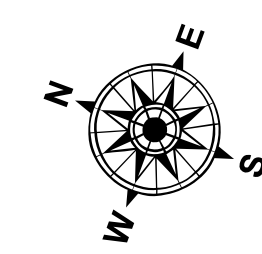
P.C. 4 1552+65.78
 $X = 3,509.163, 05$
 $Y = 252.302, 03$

SPD MI. 6.5
 $X=3,510.227$
 $Y=246.843$

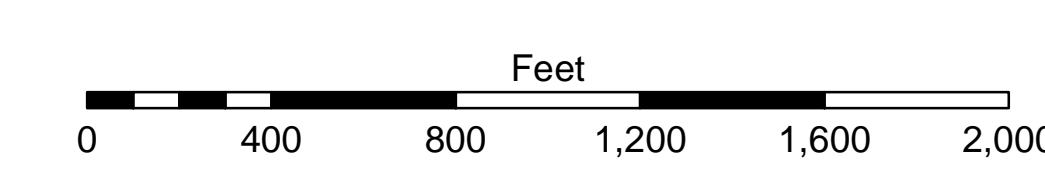


LEGEND

--- Federal Navigation Channel	○ Cable Area	3 Fluff Thickness (feet)*	-8' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	-8' to -10'
— As-built Pipeline/Cable	⊗ Anchorage Area	★ Beacon, General	-10' to -12'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	-12' to -16'
— Project Depth Contour	⊗ Wrecks-Submerged	◆ Green Navigation Buoy	-16' to -19'
			-19' and below



Gage Reading: FRONT RANGE B: 0.82 MLLW
 Sea Conditions: 0-2 FT.
 Vessel Name: LAFOURCHE
 Survey Type: CS
 Sounding Frequency***: LOW



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 Mean Lower Low Water Datum (MLLW). Datum Relationships for 88455 as of September 2022:
 0.0' NAVD88 (OPUS 2019) = 0.40' MLLW (2012-2016) = 1.40' MLG
 Distances on the Houma Nav. Canal are shown at 1 mile intervals.
 The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE survey crews.
 2022 Aerial Photography data source: Optimal GEO, Inc. (1998 DOQQ Imagery in green)
 Reference is N.O.A. Navigation Chart No. 11355.
 * Difference between high and low frequency elevations where greater than 1.0'.
 ** 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.



DISCLAIMER
 The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were originally prepared, and that the data are not to be used for any purpose other than that for which they were originally prepared. The user is responsible for the results of any use of the data. The data are not to be used for any purpose other than that for which they were originally prepared. The user is responsible for the results of any use of the data. The data are not to be used for any purpose other than that for which they were originally prepared. The user is responsible for the results of any use of the data. The data are not to be used for any purpose other than that for which they were originally prepared. The user is responsible for the results of any use of the data.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted: _____	Surveyed By: RYLAND/CHAMPINE
Recommended: _____	Plotted By: JH
Approved: _____	Checked By: JH

**HOUMA NAVIGATION CANAL
 BAY CHANNEL
 HN_14_BAY_20240711_CS
 11 July 2024**

**Sheet Reference Number
 14 of 19**

Revision Number:
 4.2-20240720