

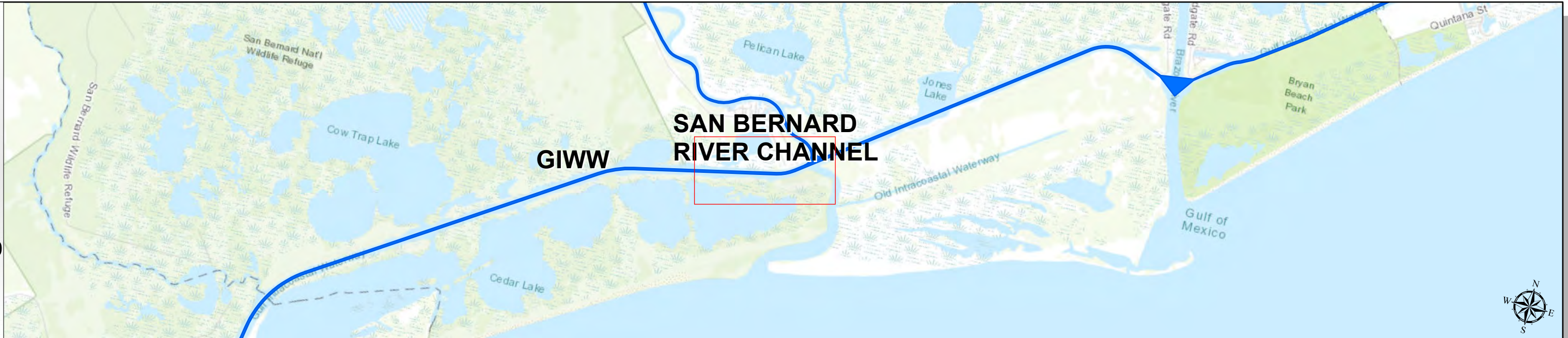
Gulf Intracoastal Waterway: San Bernard River to Colorado River



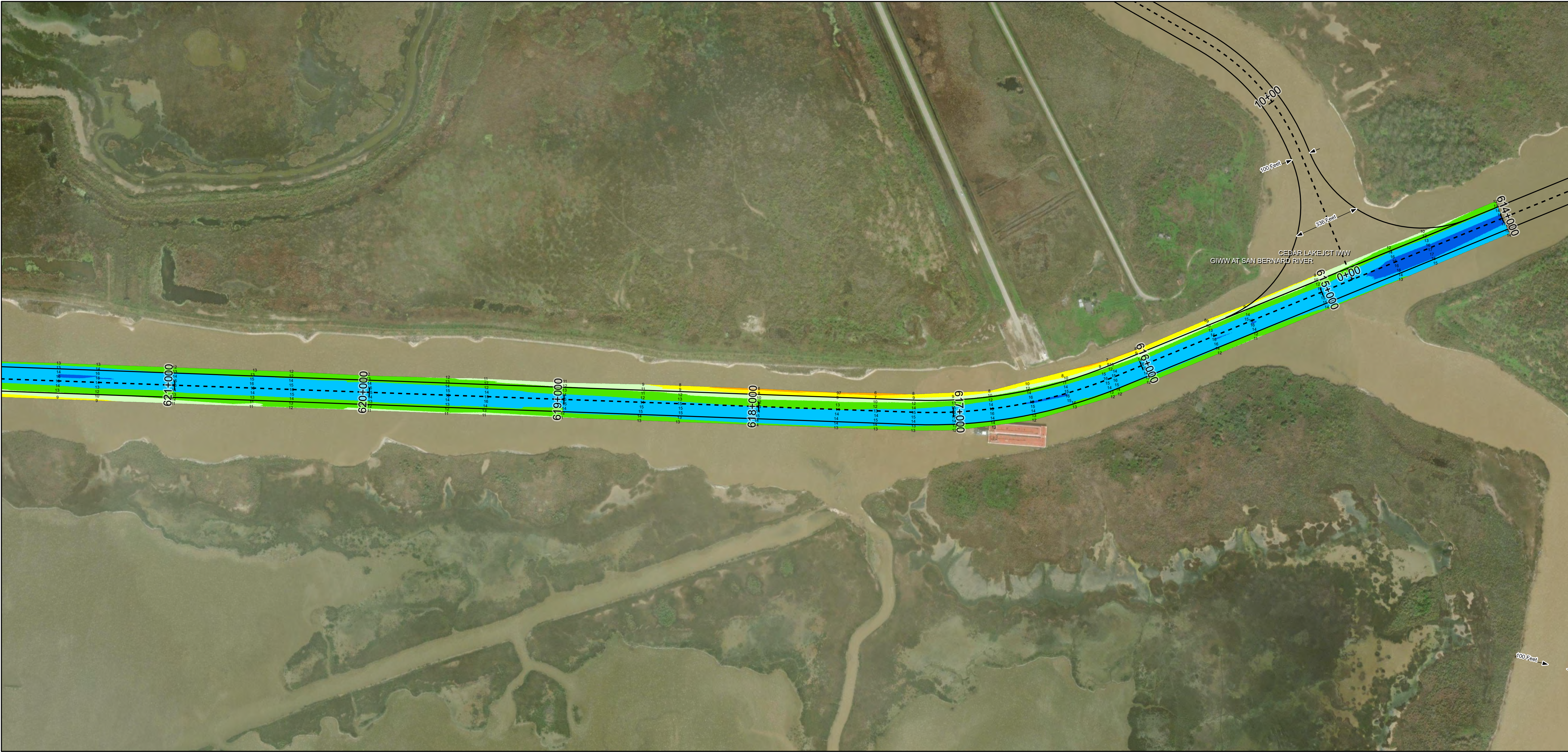
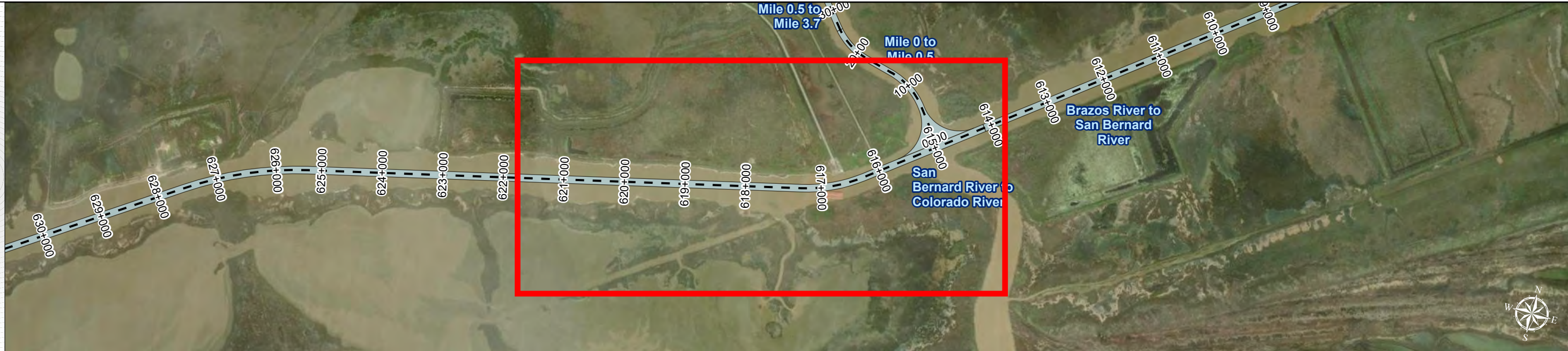
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW



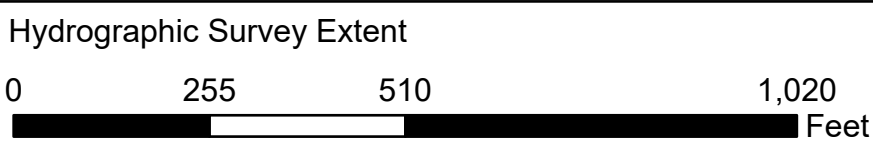
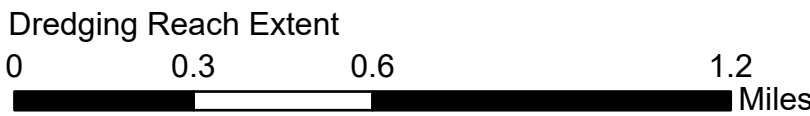
NOTES:

- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
 - Elevations are referenced to mean lower low tide (MLLW) datum.
 - This project was designed by the Galveston District of the U.S. Army Corps of Engineers. The initials and signatures and registration designations of individuals appear on these project documents within the scope of their employment as required by 47 CFR 111.01-0112.
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- Service Layer Credits: World Topographic Map: Brazoria County, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:

Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River

Latest Survey Collection Date: 11 January 2024

Document Page: 1 of 25

Website Index Number: 91

Scale: 1:3,000

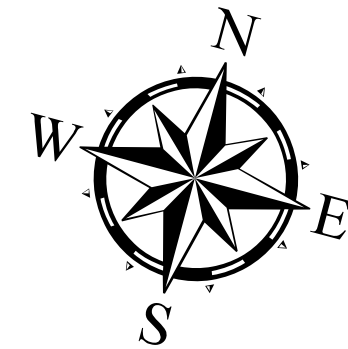
Mapped by: M3AOXPAC

Additional Imagery info:

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024



Gulf Intracoastal Waterway: San Bernard River to Colorado River



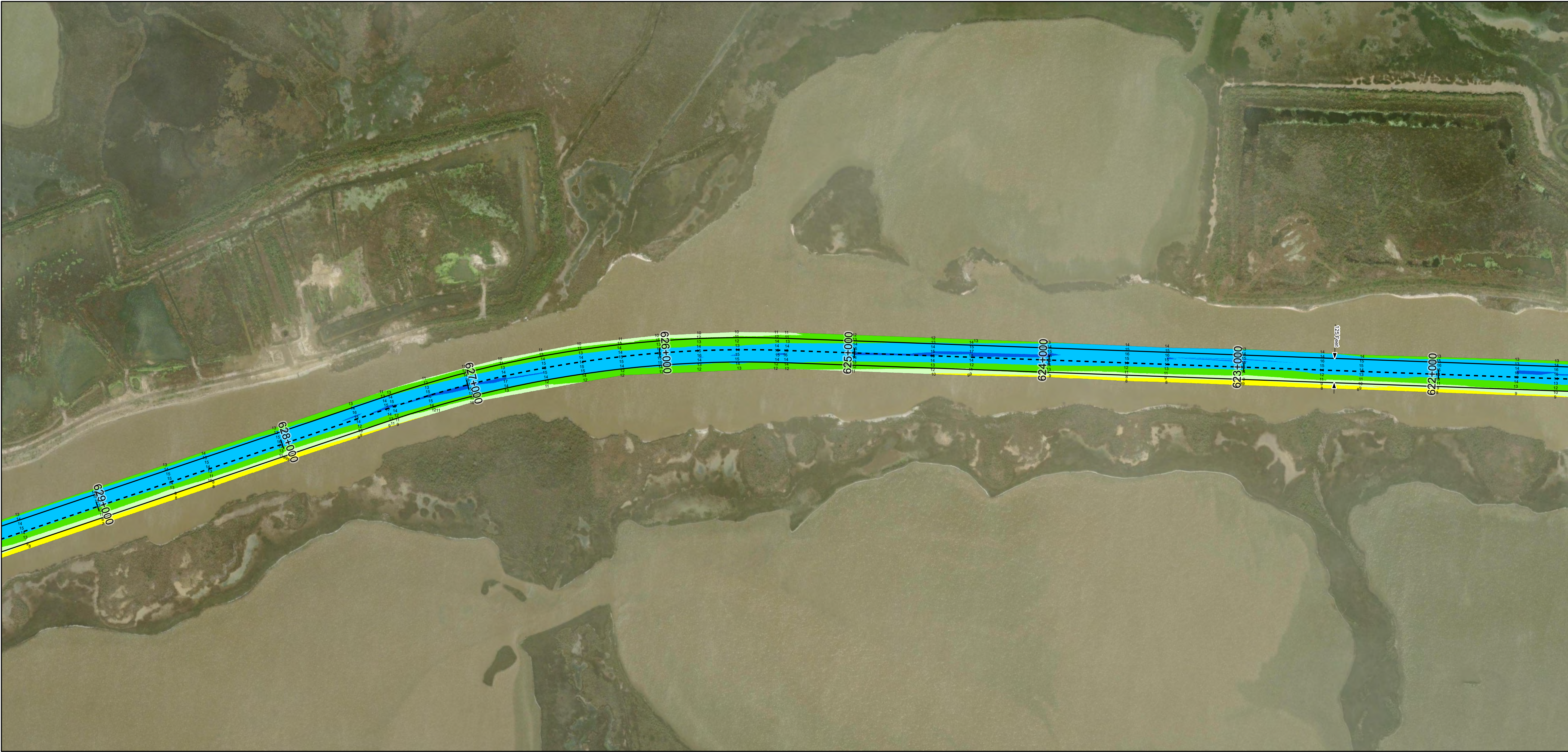
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

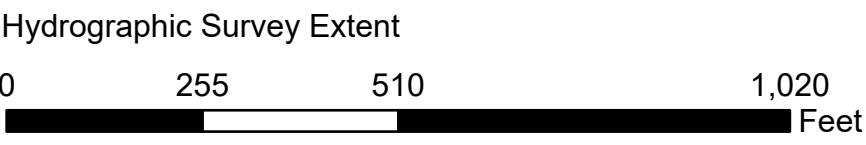
MLLW



NOTES:
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World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

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Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River

Latest Survey Collection Date: 11 January 2024

Document Page: 2 of 25

Website Index Number: 92

Scale: 1:3,000

Mapped by: M3AOXPAC

Additional Imagery info:

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

Gulf Intracoastal Waterway: San Bernard River to Colorado River



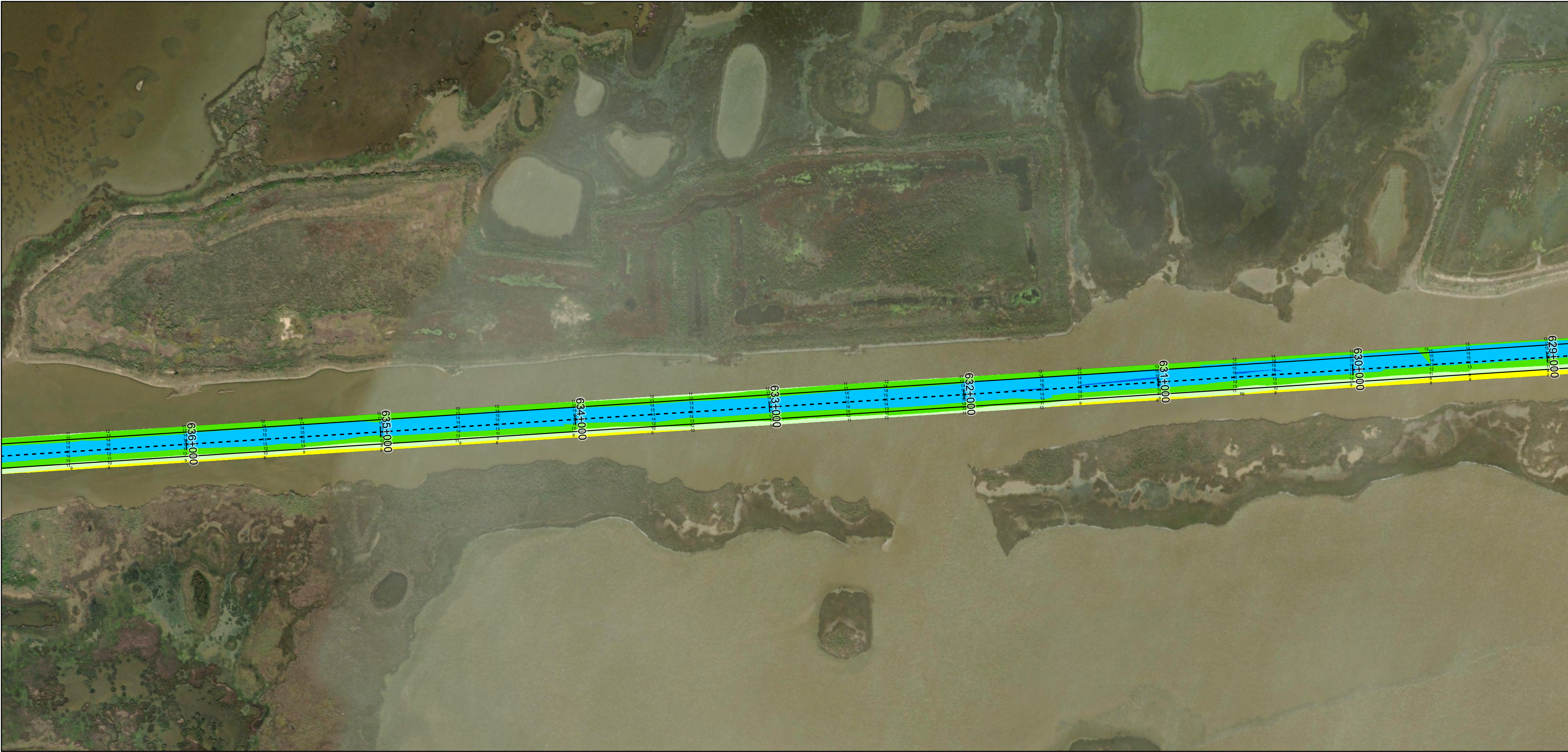
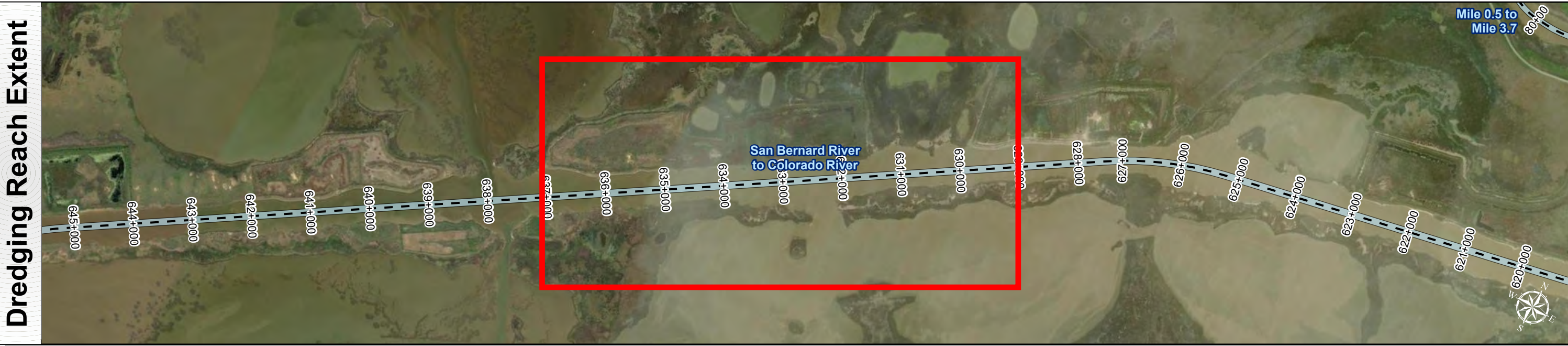
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW



NOTES:

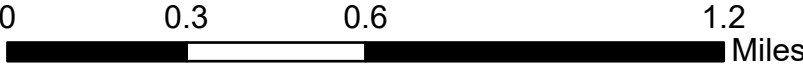
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- Service Layer Credits: World Topographic Map: Brazoria County, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:

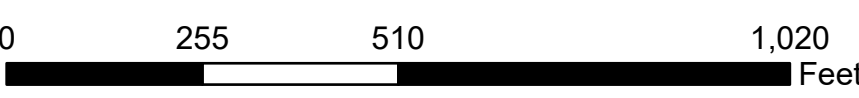
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent



Hydrographic Survey Extent

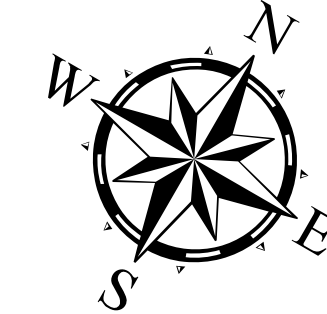


HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW

San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024

Document Page: 3 of 25

Website Index Number: 93

Authorized Depth: -14ft.

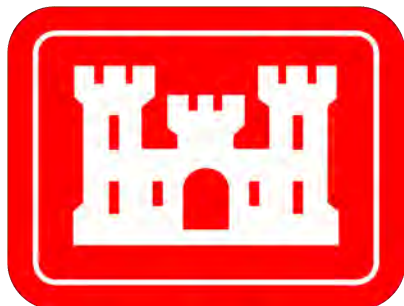
Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

Mapped by: M3AOXPAC

Additional Imagery info:

Gulf Intracoastal Waterway: San Bernard River to Colorado River



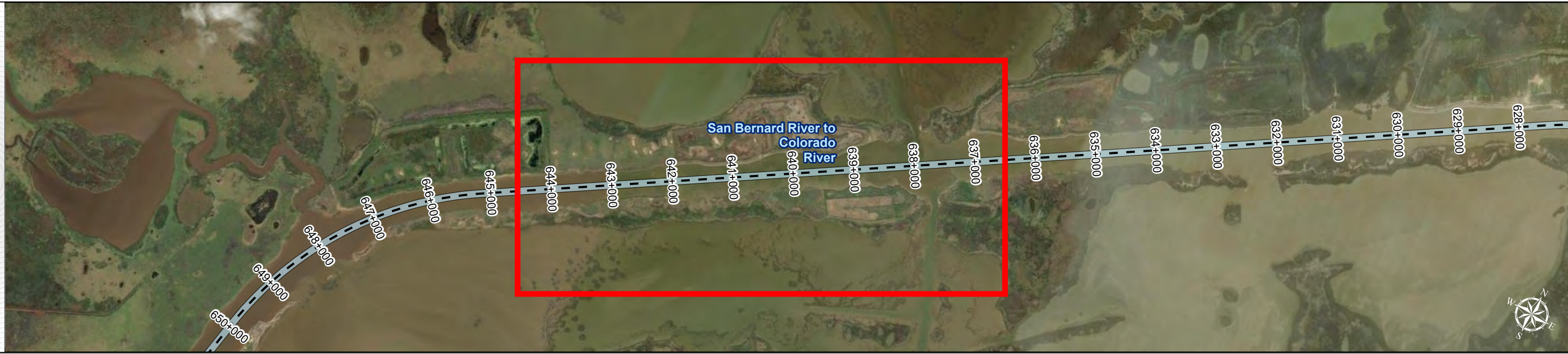
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW



NOTES:

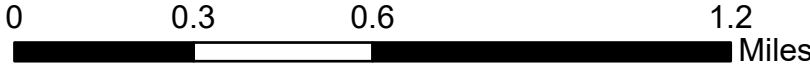
- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
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World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:

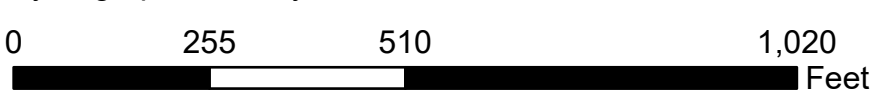
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent



Hydrographic Survey Extent

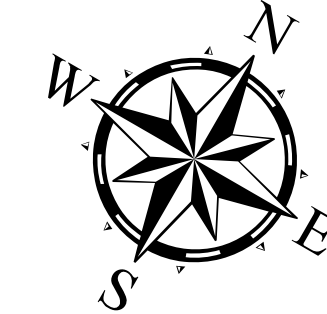


HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW

San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024

Document Page: 4 of 25

Website Index Number: 94

Scale: 1:3,000

Mapped by: M3AOXPAC

Additional Imagery info:

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

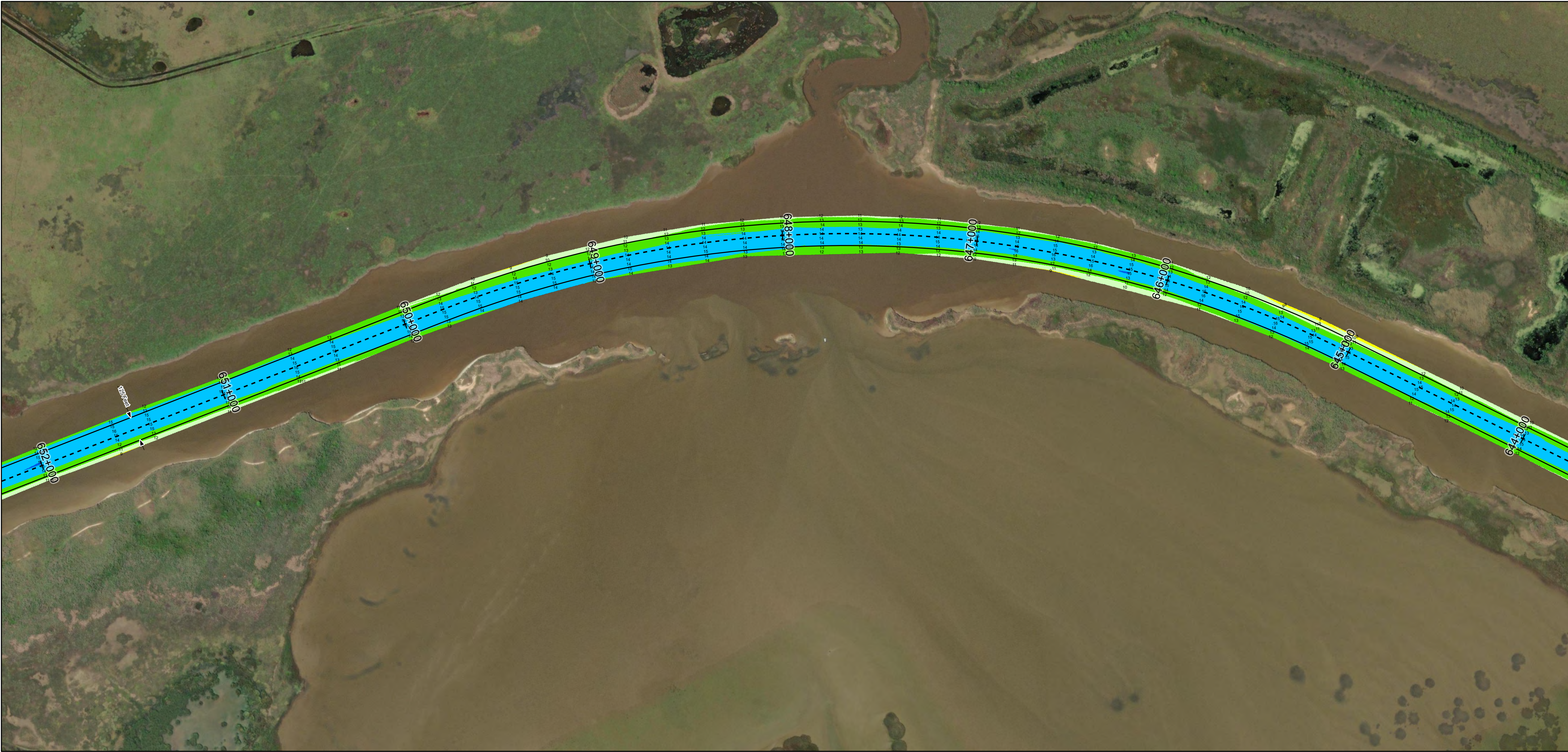
Gulf Intracoastal Waterway: San Bernard River to Colorado River



Regional Extent



Dredging Reach Extent

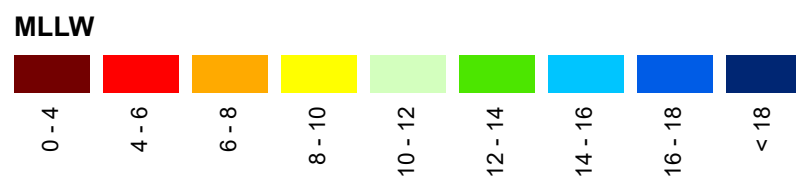


Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

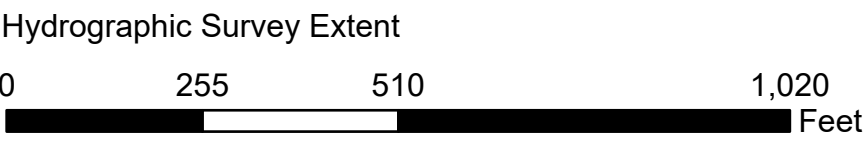
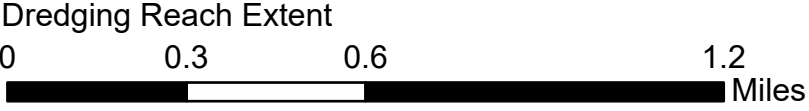
- Green Side Aids
- Red Side Aids
- Lights



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Additional Combined Survey Dates and Stationing:
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
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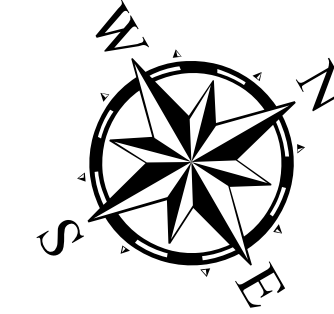
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024

Document Page: 5 of 25

Scale: 1:3,000

Mapped by: M3AOXPAC

Additional Imagery info:

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

Website Index Number: 95

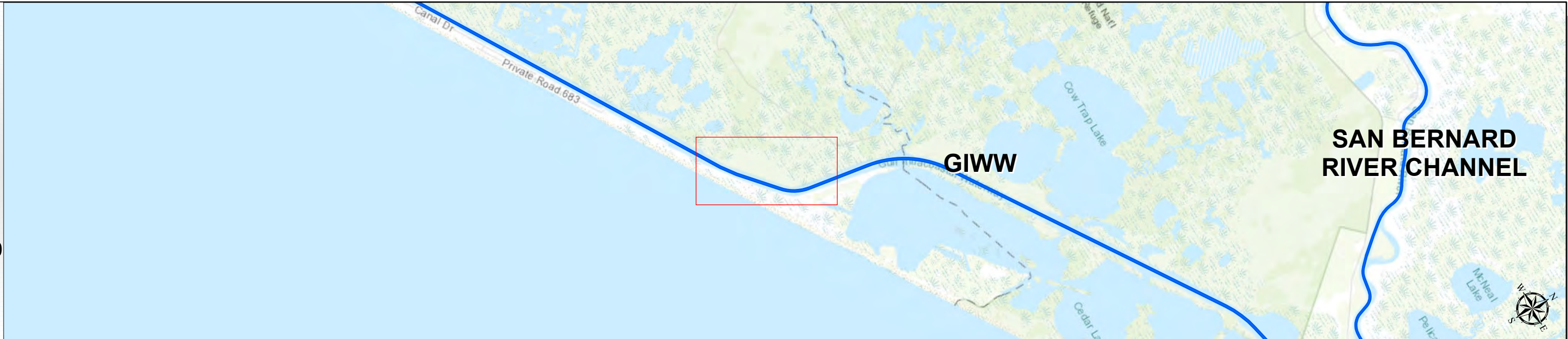
Gulf Intracoastal Waterway: San Bernard River to Colorado River



U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

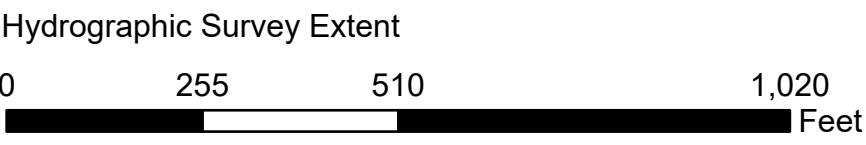
MLLW



NOTES:
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Additional Combined Survey Dates and Stationing:
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River

Latest Survey Collection Date: 11 January 2024

Document Page: 6 of 25

Website Index Number: 96

Scale: 1:3,000

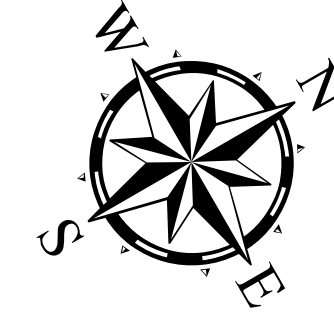
Mapped by: M3AOXPAC

Additional Imagery info:

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024



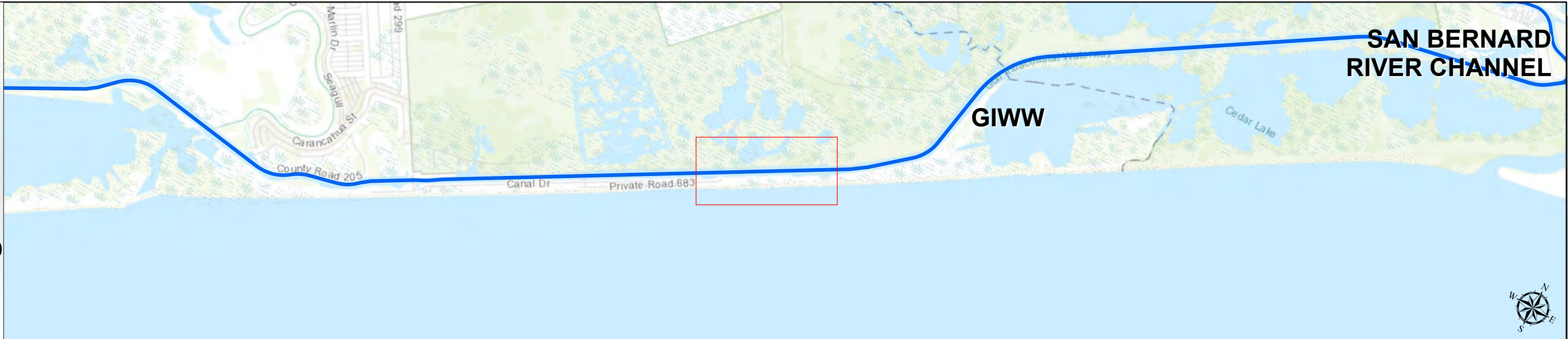
Gulf Intracoastal Waterway: San Bernard River to Colorado River



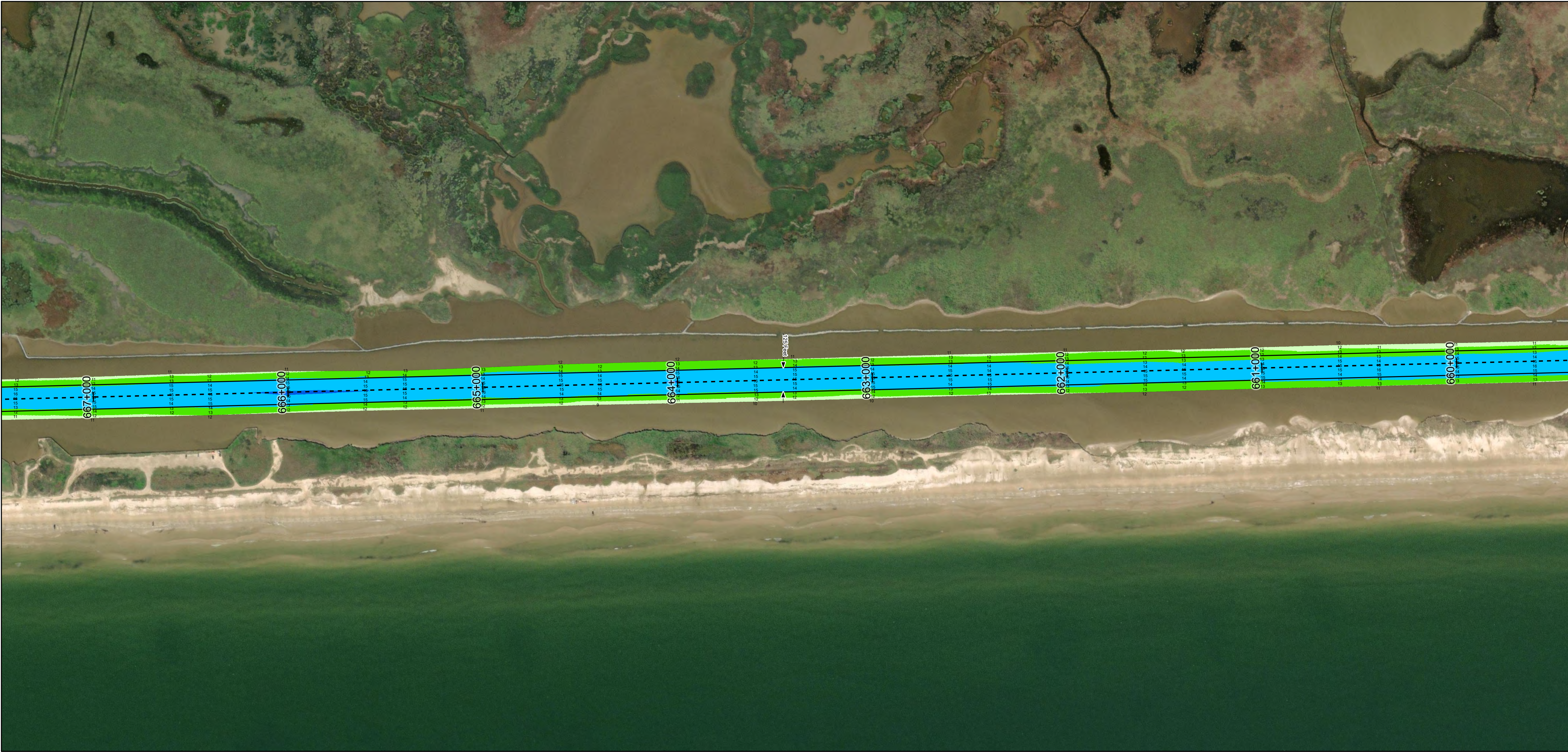
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

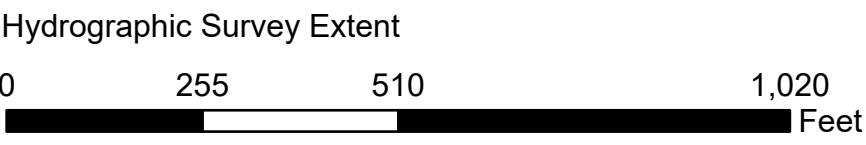
MLLW



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World Imagery: Maxar
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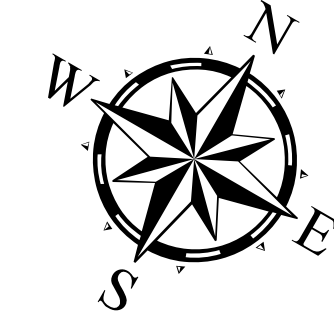
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024

Document Page: 7 of 25

Website Index Number: 97

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

Scale: 1:3,000

PDF Print Date: 1/22/2024

Mapped by: M3AOXPAC

Additional Imagery info:

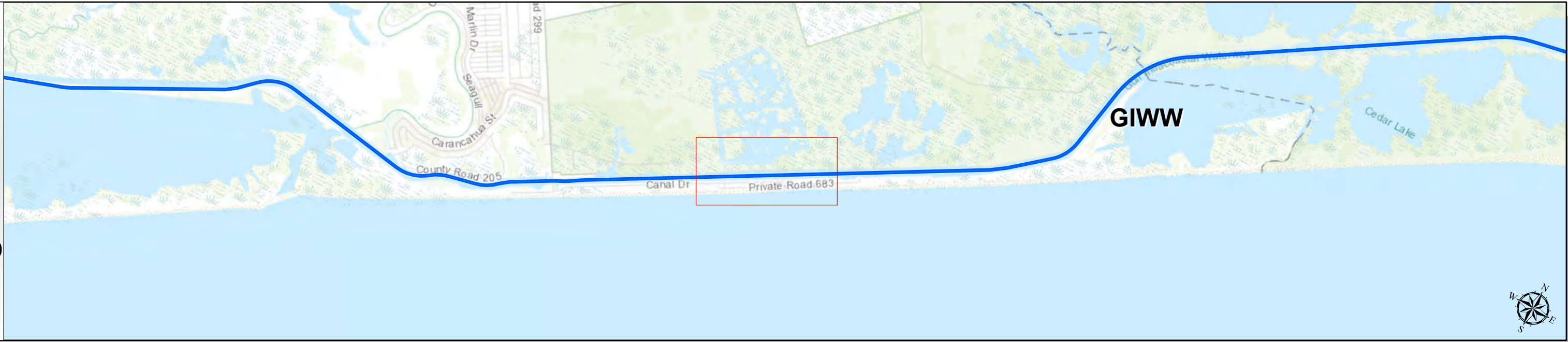
Gulf Intracoastal Waterway: San Bernard River to Colorado River



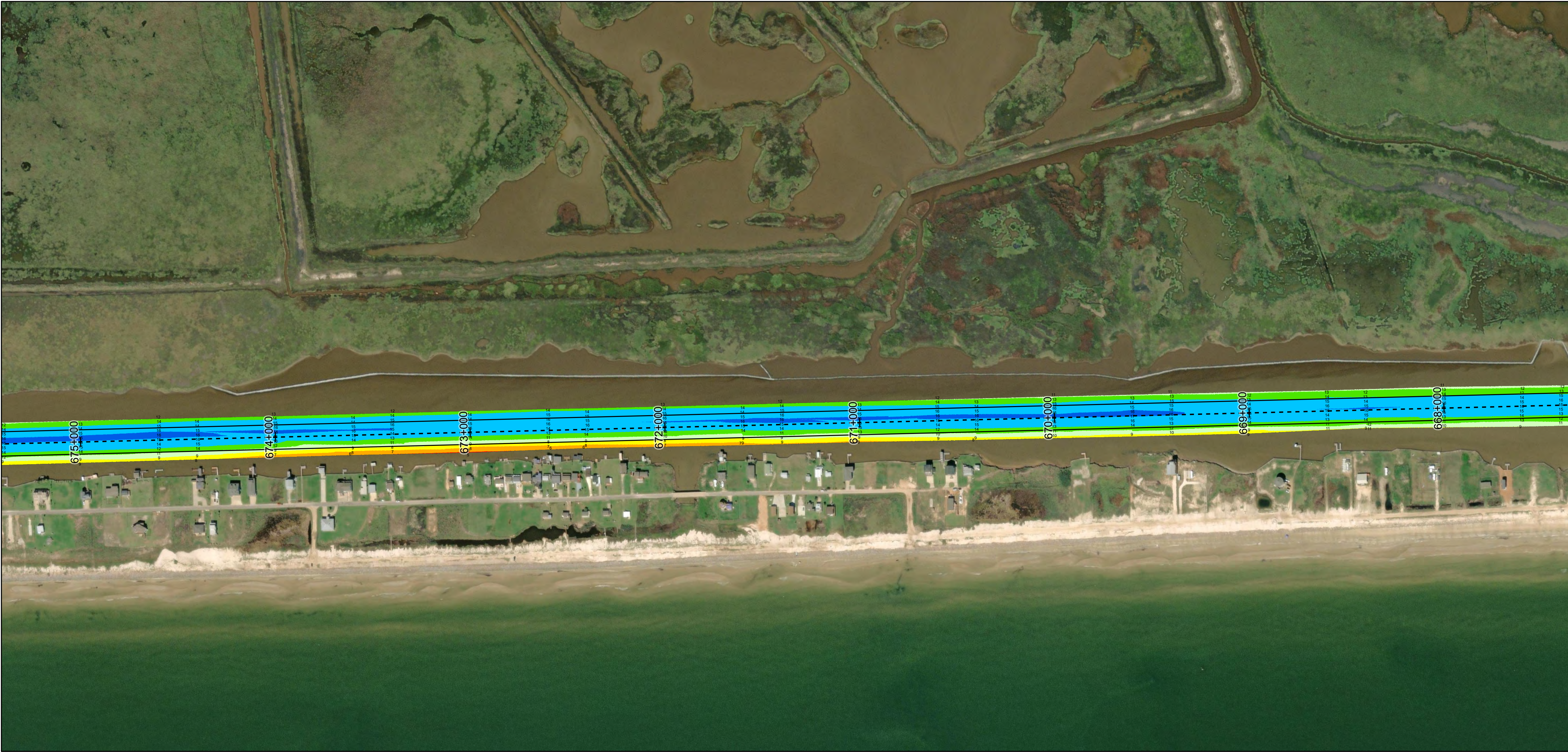
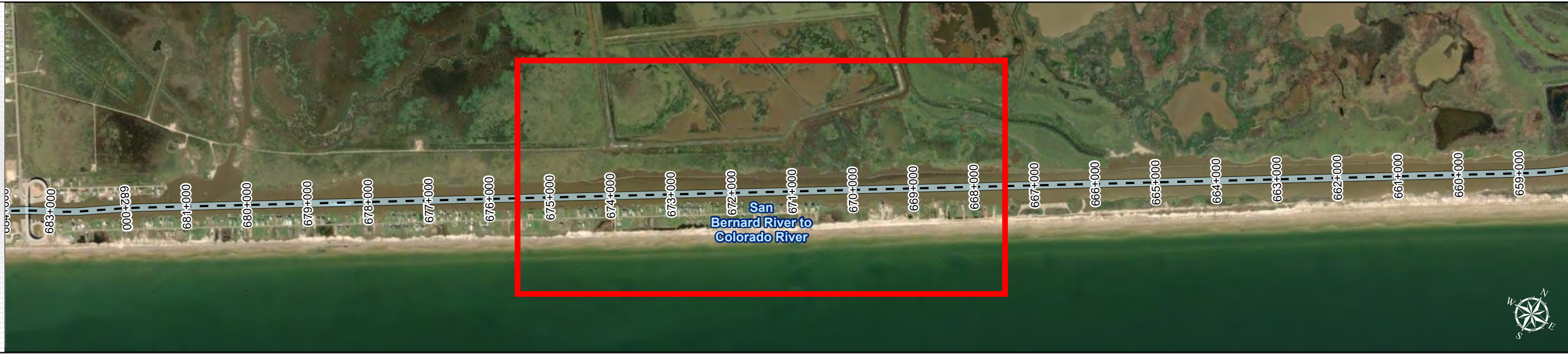
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



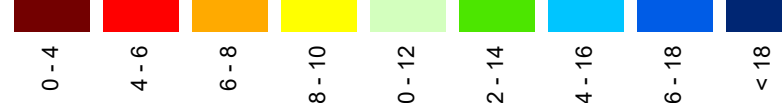
Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

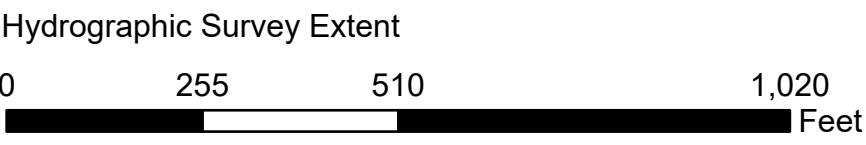
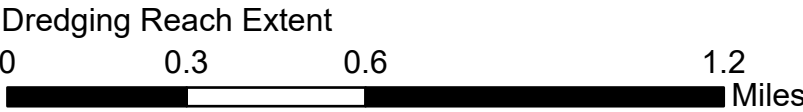
MLLW



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Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

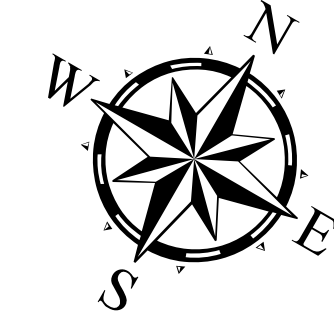
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024
Document Page: 8 of 25
Scale: 1:3,000
Mapped by: M3AOXPAC
Additional Imagery info:

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

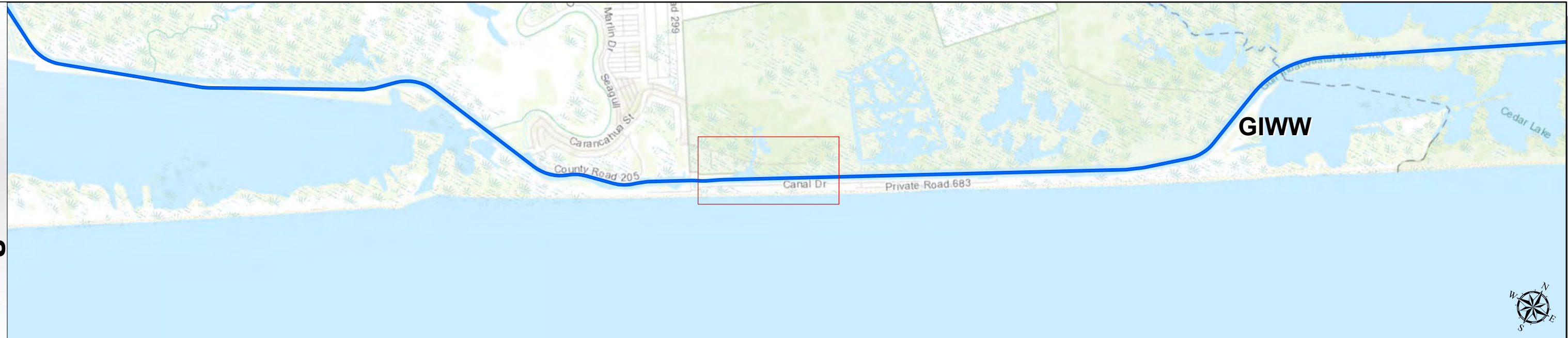
Gulf Intracoastal Waterway: San Bernard River to Colorado River



U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

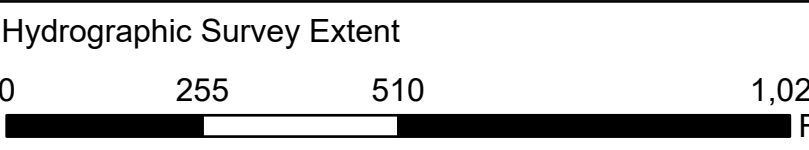
MLLW



NOTES:
1. Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
2. Elevations are referenced to mean lower low tide (MLLW) datum.
3. This project was designed by the Galveston District of the U.S. Army Corps of Engineers. The initials and signatures and registration designations of individuals appear on these project documents within the scope of their employment as required by 47CFR 117.11-117.12.
4. The information depicted on this survey 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. These conditions are subject to rapid change due to shoaling events. A prudent mariner should not rely exclusively on the information provided here. Required by 33 CFR 209.325.
5. For the most up to date information please check our website at: <http://www.svg.usace.army.mil/Missions/Navigation/HydrographicSurveys/>
Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River

Latest Survey Collection Date: 11 January 2024
Document Page: 9 of 25
Scale: 1:3,000
Mapped by: M3AOXPAC
Additional Imagery info:

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

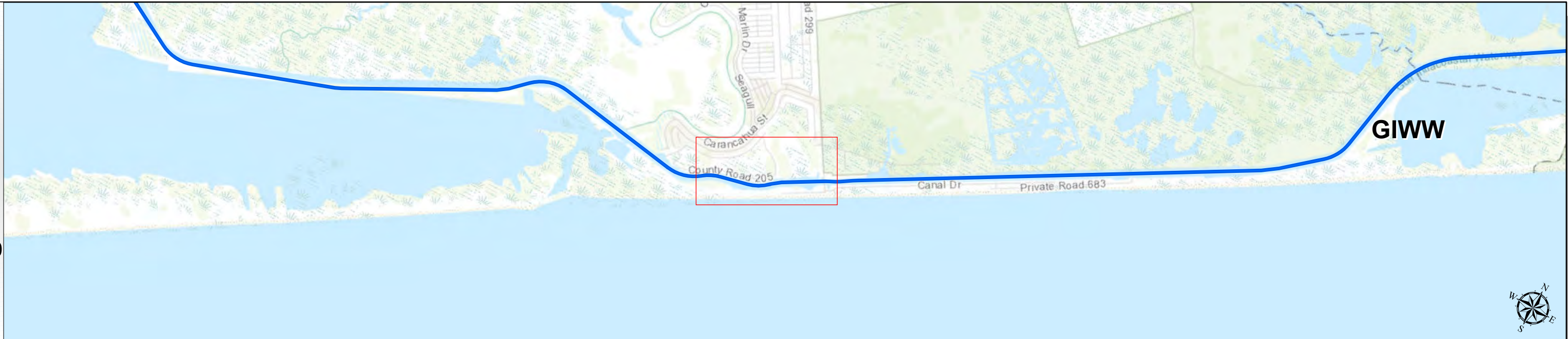
Gulf Intracoastal Waterway: San Bernard River to Colorado River



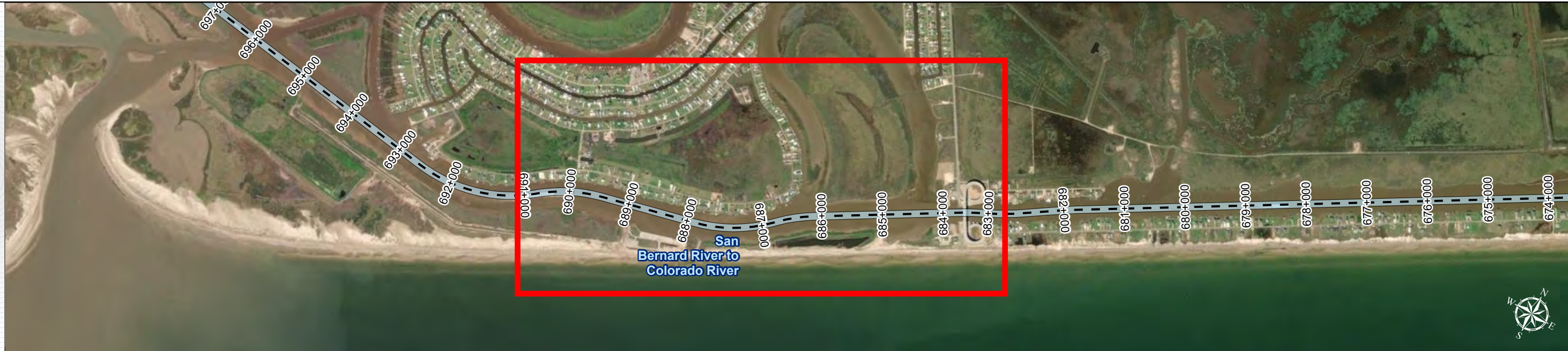
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



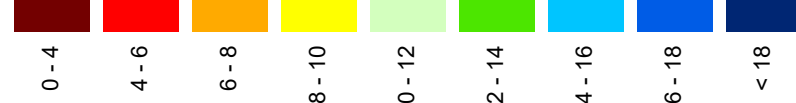
Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW



NOTES:
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World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

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Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent
0 0.3 0.6 1.2 Miles

Hydrographic Survey Extent
0 255 510 1,020 Feet

HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River

Latest Survey Collection Date: 11 January 2024

Document Page: 10 of 25 Website Index Number: 100

Scale: 1:3,000

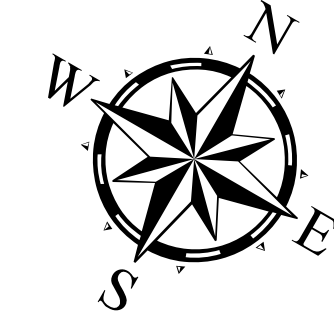
Mapped by: M3AOXPAC

Additional Imagery info:

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024



Gulf Intracoastal Waterway: San Bernard River to Colorado River



U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

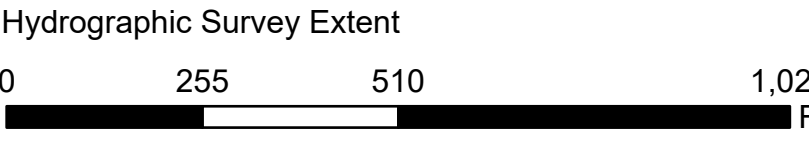
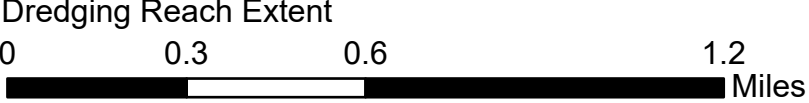
MLLW



NOTES:
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3. This project was designed by the Galveston District of the U.S. Army Corps of Engineers. The initials and signatures and registration designations of individuals appear on these project documents within the scope of their employment as required by 47 CFR 111.011-011.012.
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Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
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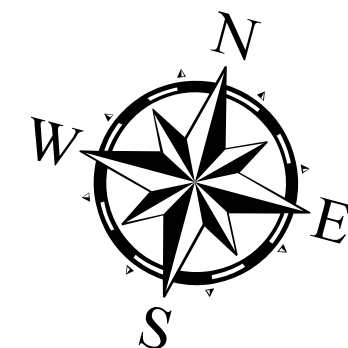
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Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024		Authorized Depth: -14ft.	
Document Page: 11 of 25	Website Index Number: 101	Side Slope Ratio: (Rise : Run)	
Scale: 1:3,000		PDF Print Date: 1/22/2024	
Mapped by: M3AOXPAC			
Additional Imagery info:			

Gulf Intracoastal Waterway: San Bernard River to Colorado River



U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

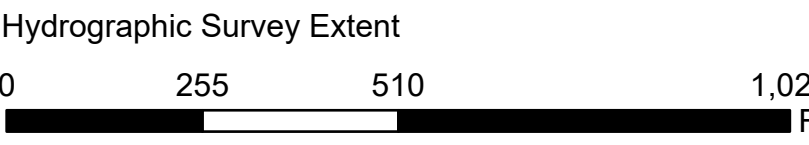
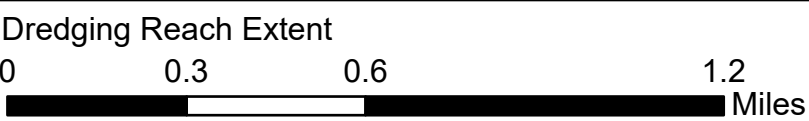
MLLW



NOTES:
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2. Elevations are referenced to mean lower low tide (MLLW) datum.
3. This project was designed by the Galveston District of the U.S. Army Corps of Engineers. The initials and signatures and registration designations of individuals appear on these project documents within the scope of their employment as required by 47 CFR 111.01-0112.
4. The information depicted on this survey 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. These conditions are subject to rapid change due to shoaling events. A prudent mariner should not rely exclusively on the information provided here. Required by 33 CFR 209.325.
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Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA, World Imagery: Maxar, World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

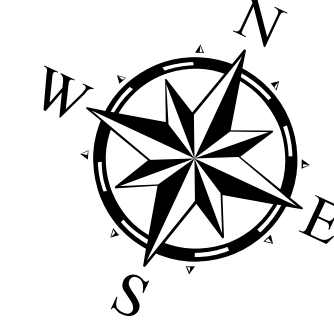
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Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024

Document Page: 12 of 25

Scale: 1:3,000

Mapped by: M3AOXPAC

Additional Imagery info:

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

TEXAS

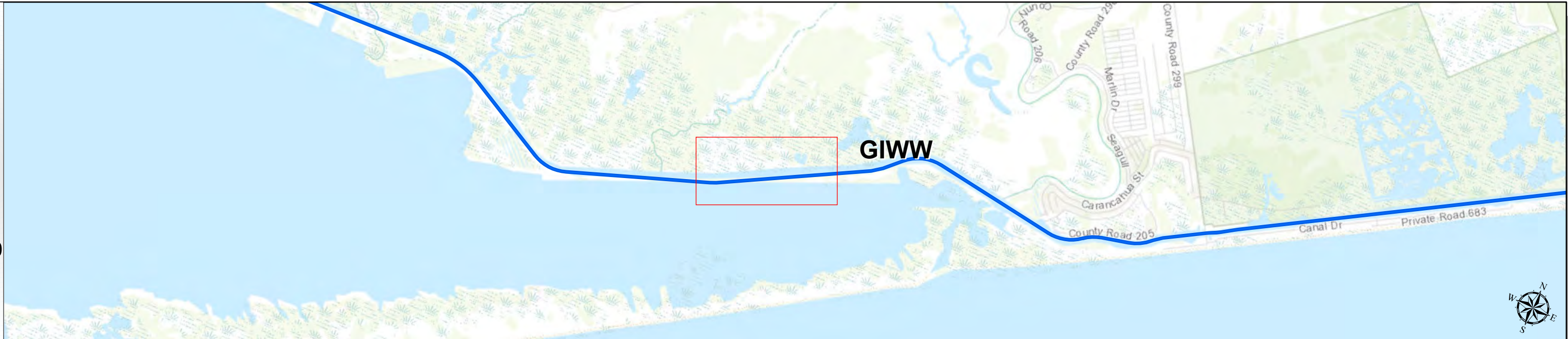
Gulf Intracoastal Waterway: San Bernard River to Colorado River



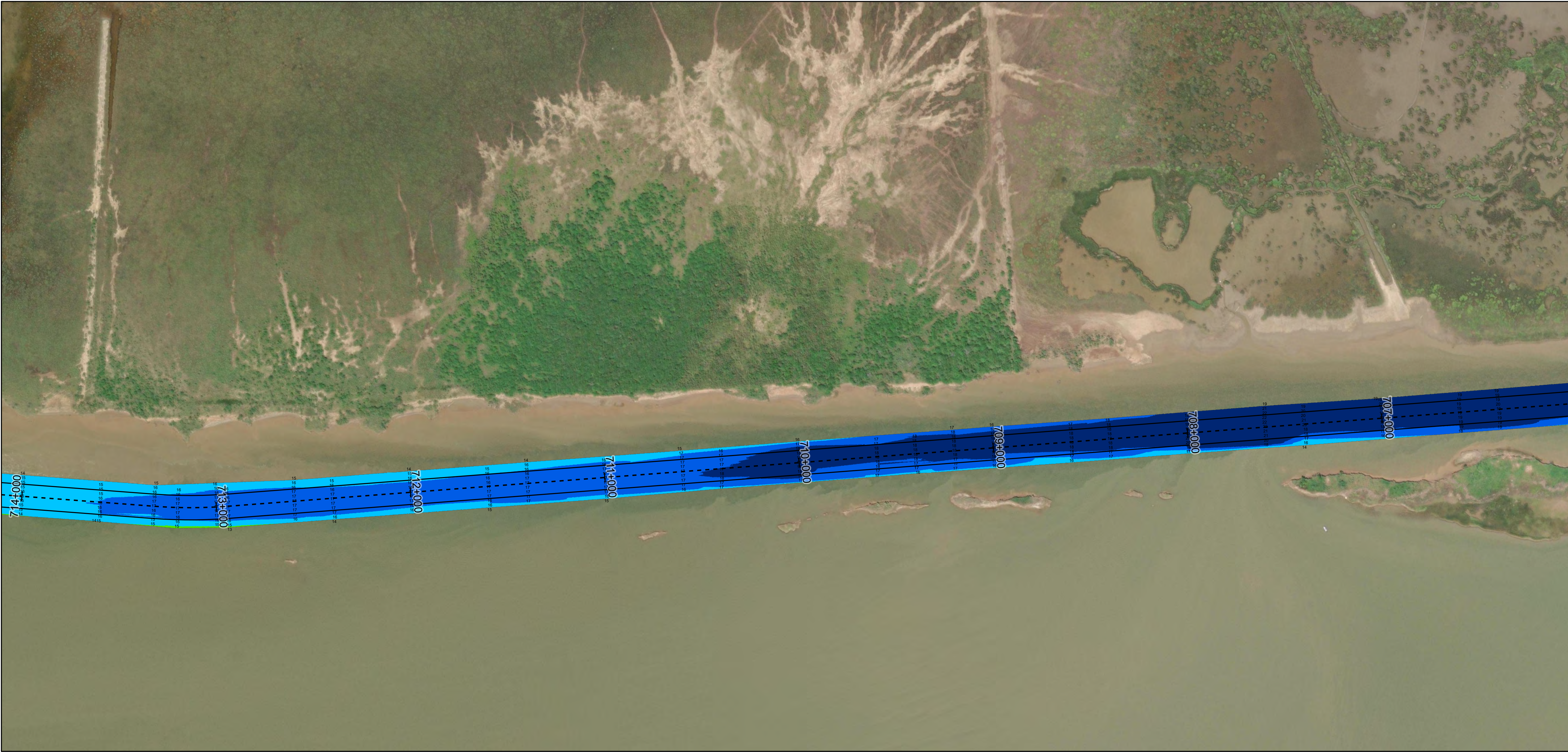
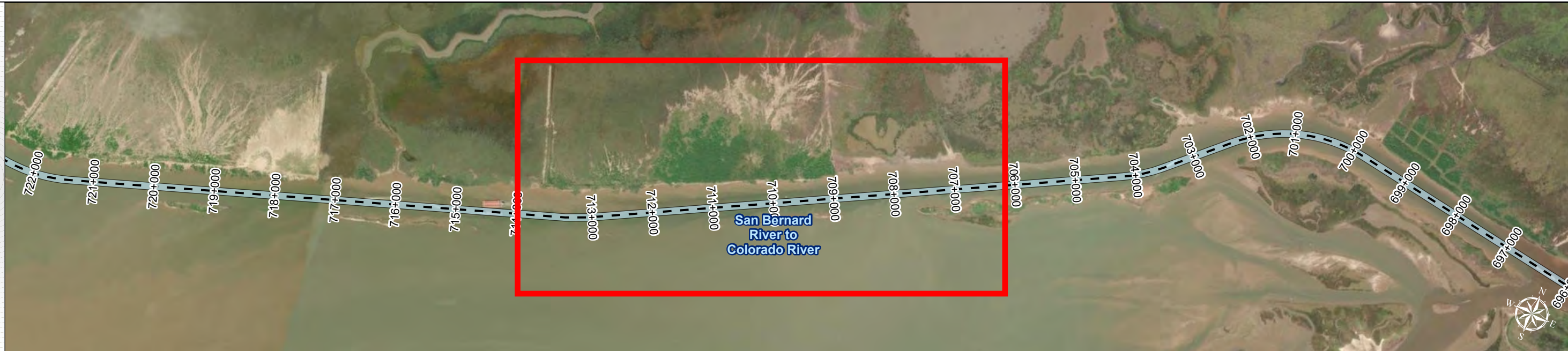
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

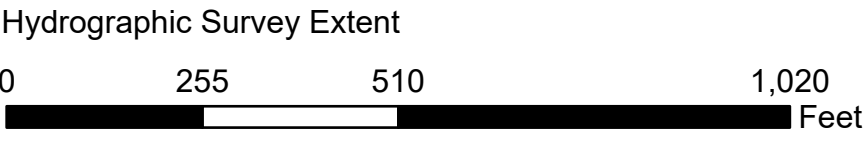
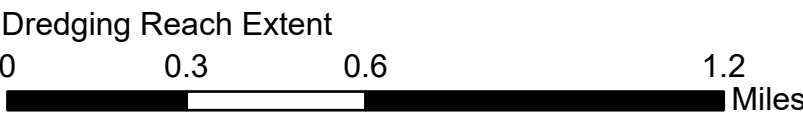


NOTES:
1. Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
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3. This project was designed by the Galveston District of the U.S. Army Corps of Engineers. The initials and signatures and registration designations of individuals appear on these project documents within the scope of their employment as required by 47CFR 110.1-110.152.
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Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:

Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
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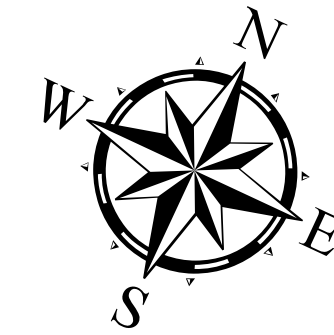
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024
Document Page: 13 of 25
Scale: 1:3,000
Mapped by: M3AOXPAC
Additional Imagery info:

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

Website Index Number: 103

Gulf Intracoastal Waterway: San Bernard River to Colorado River



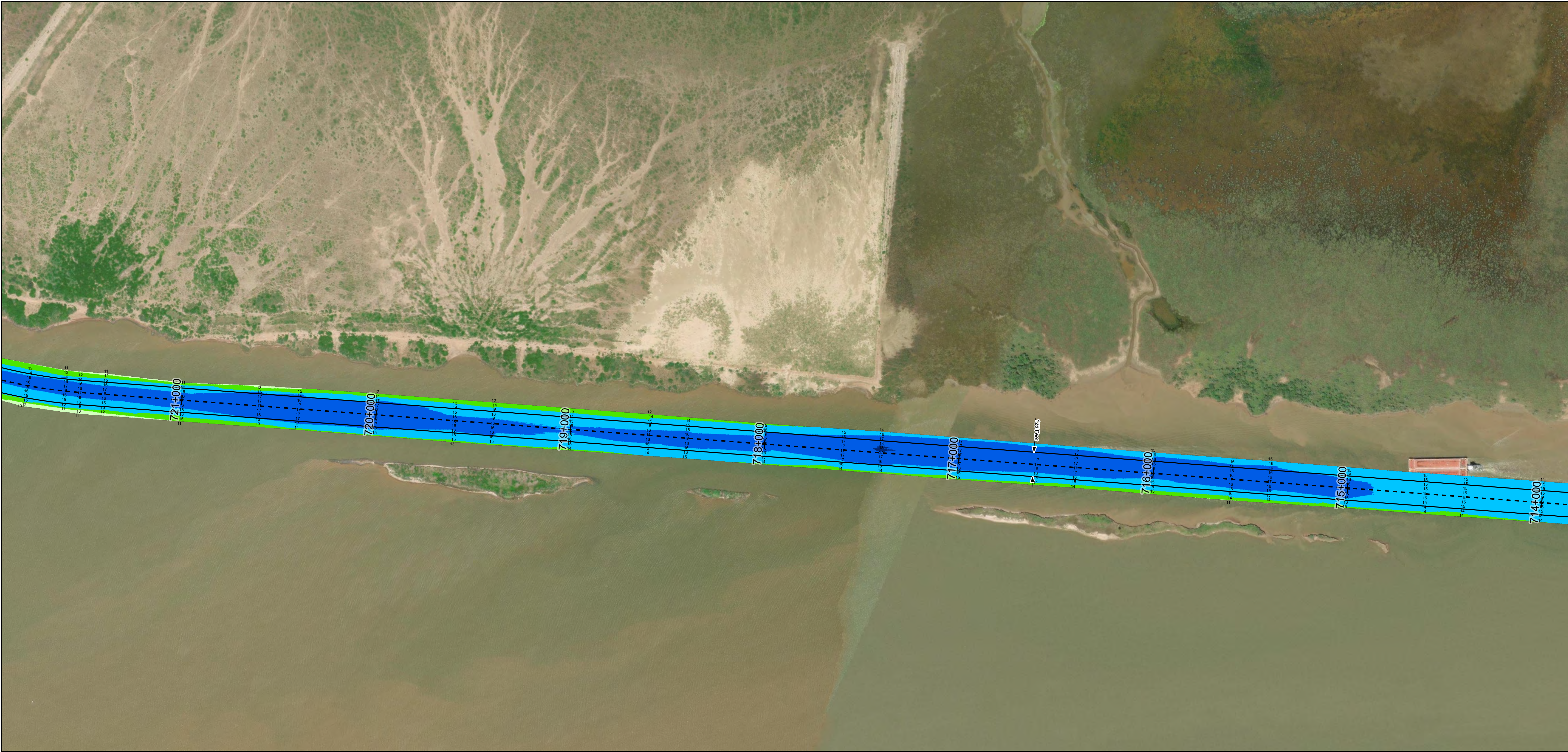
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent

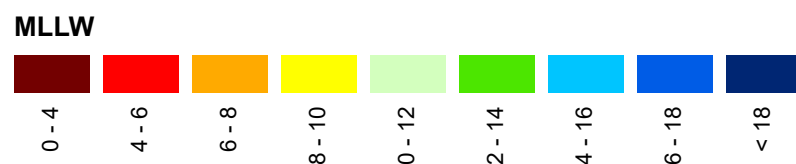


Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

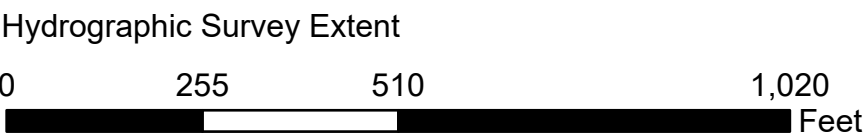
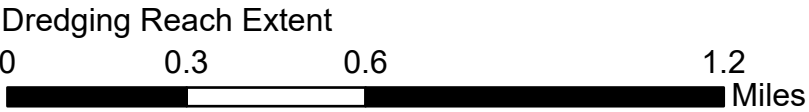
- Green Side Aids
- Red Side Aids
- Lights



NOTES:
1. Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
2. Elevations are referenced to mean lower low tide (MLLW) datum.
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Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
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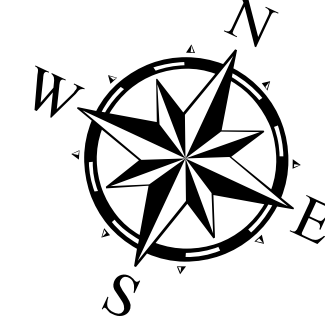
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024

Document Page: 14 of 25

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

Website Index Number: 104

Scale: 1:3,000

Mapped by: M3AOXPAC

Additional Imagery info:

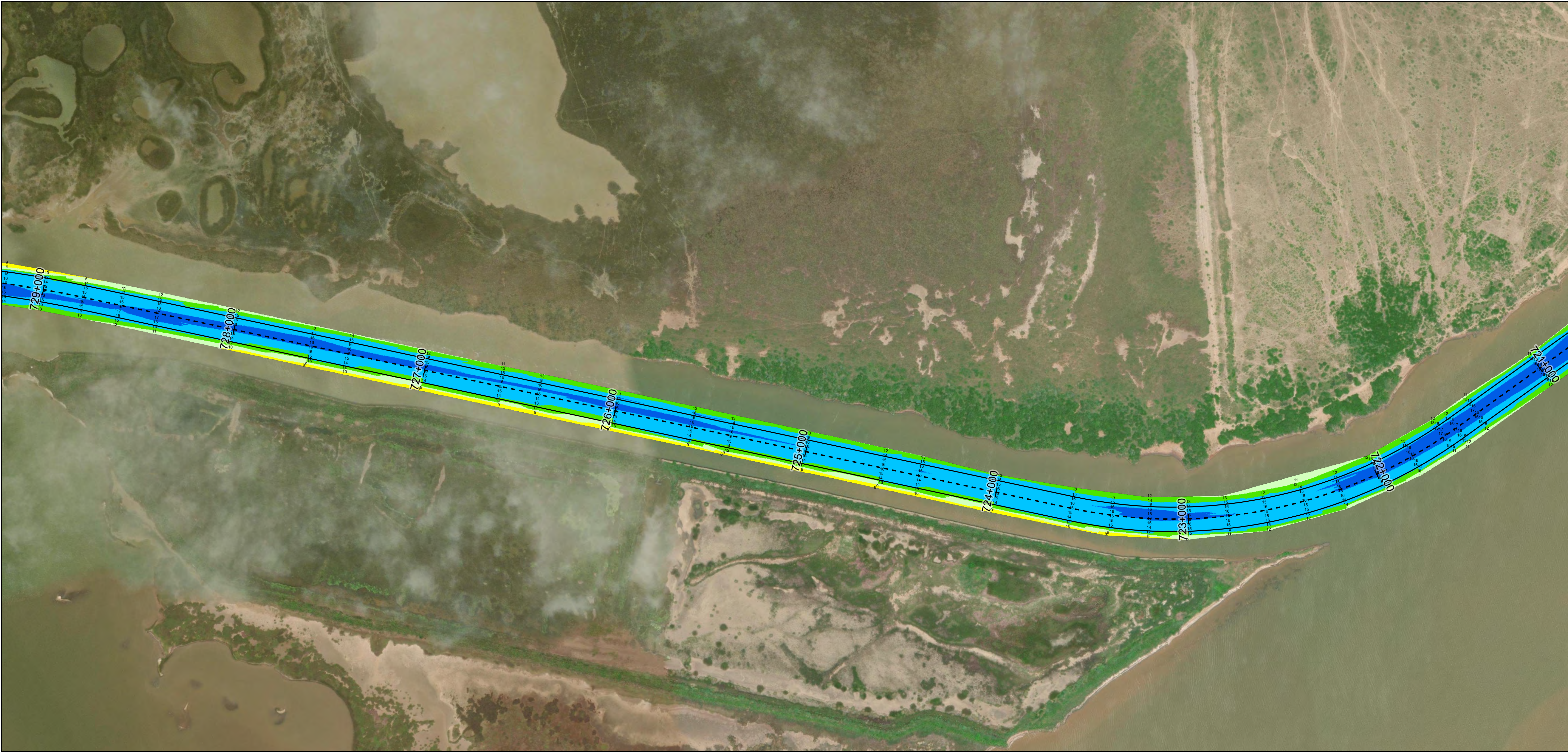
Gulf Intracoastal Waterway: San Bernard River to Colorado River



Regional Extent



Dredging Reach Extent



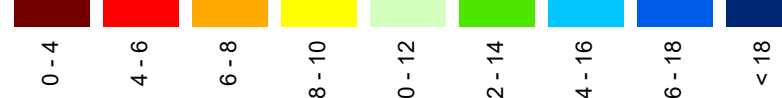
Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

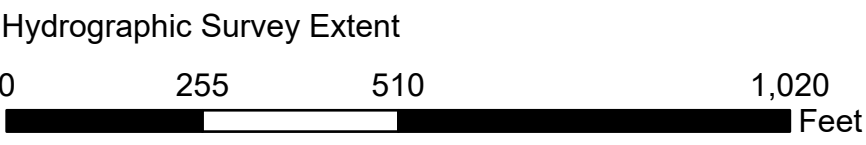
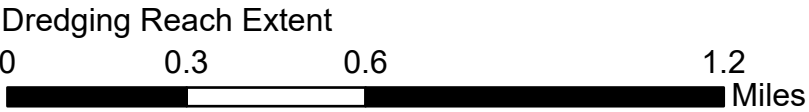
MLLW



NOTES:
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World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

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Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
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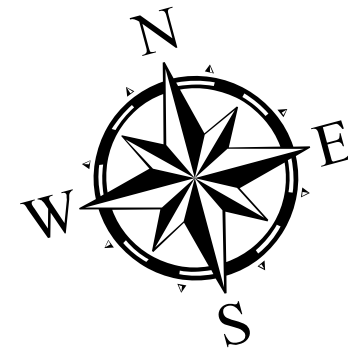
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024		Authorized Depth: -14ft.	
Document Page: 15 of 25	Website Index Number: 105	Side Slope Ratio: (Rise : Run)	
Scale: 1:3,000		PDF Print Date: 1/22/2024	
Mapped by: M3AOXPAC			
Additional Imagery info:			

Gulf Intracoastal Waterway: San Bernard River to Colorado River



U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

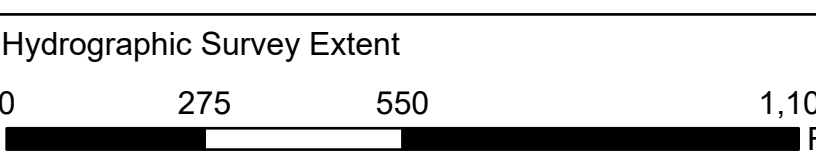
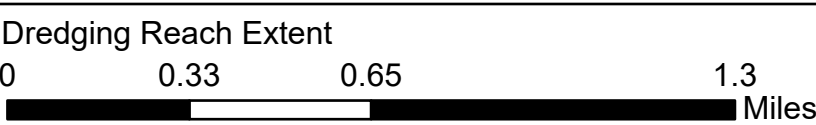
MLLW



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World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
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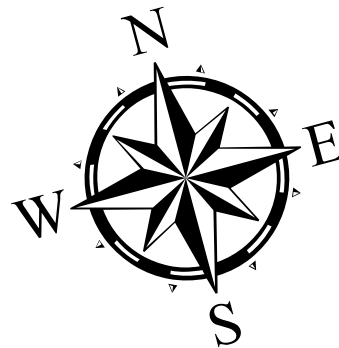
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024

Document Page: 16 of 25

Scale: 1:3,200

Mapped by: M3AOXPAC

Additional Imagery info:

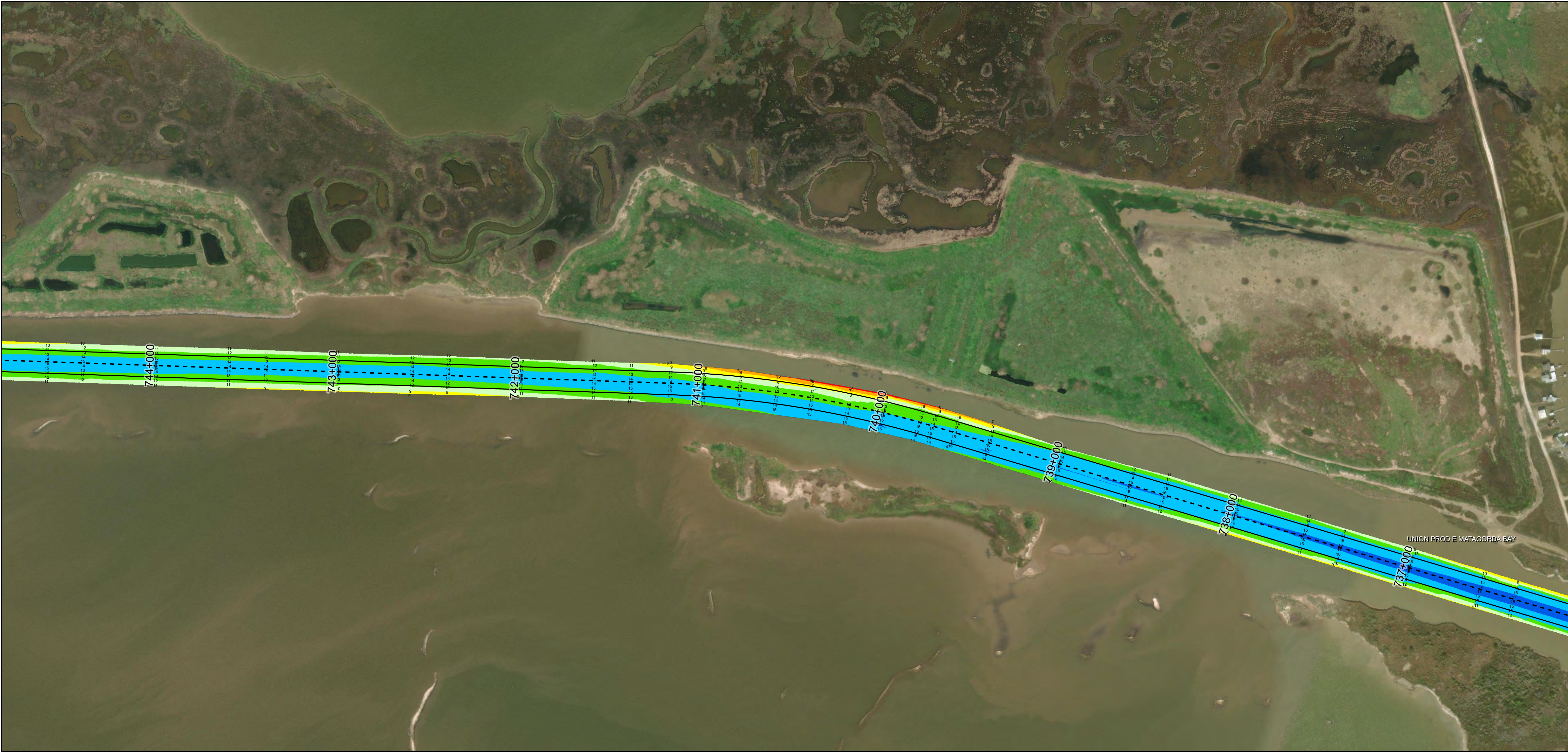
Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

Website Index Number: 106

Gulf Intracoastal Waterway: San Bernard River to Colorado River



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 4	4 - 6	6 - 8	8 - 10	10 - 12	12 - 14	14 - 16	16 - 18	< 18
Dark Blue	Blue	Light Blue	Green	Yellow	Orange	Red	Dark Red	Black

NOTES:

- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
- Elevations are referenced to mean lower low tide (MLLW) datum.
- This project was designed by the Galveston District of the U.S. Army Corps of Engineers. The initials and signatures and registration designations of individuals appear on these project documents within the scope of their employment as required by 47 CFR 111.01-0112.
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- For the most up to date information please check our website at: <http://www.svg.usace.army.mil/Missions/Navigation/HydrographicSurveys/>

Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NOAA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:

Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

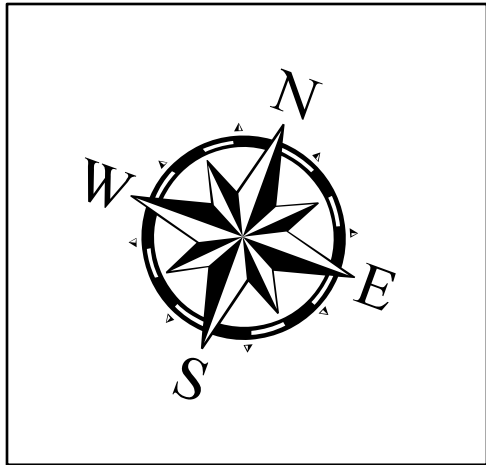
Dredging Reach Extent

0 0.33 0.65 1.3 Miles

Hydrographic Survey Extent

0 275 550 1,100 Feet

Latest Survey Collection Date: 11 January 2024		Authorized Depth: -14ft.	
Document Page: 17 of 25	Website Index Number: 107	Side Slope Ratio: (Rise : Run)	
Scale: 1:3,200		PDF Print Date: 1/22/2024	
Mapped by: M3AOXPAC			
Additional Imagery info:			



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River

Gulf Intracoastal Waterway: San Bernard River to Colorado River



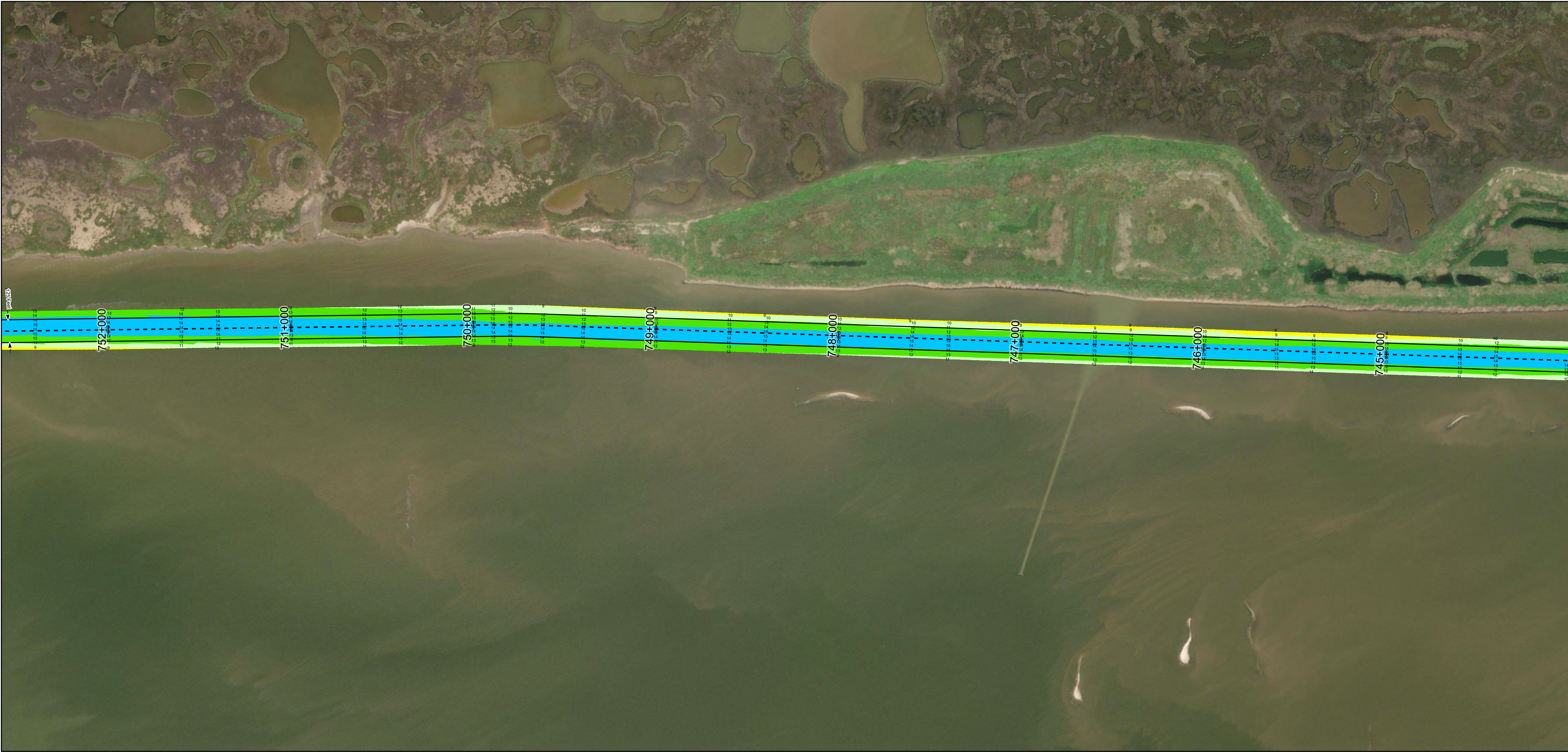
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

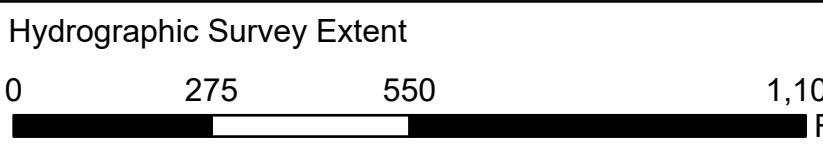
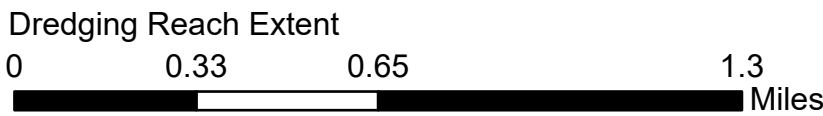
MLLW



NOTES:
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Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, NOAA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

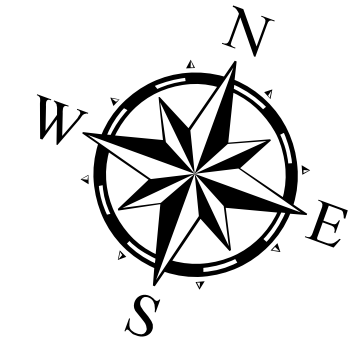
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024		Authorized Depth: -14ft.	
Document Page: 18 of 25	Website Index Number: 108	Side Slope Ratio: (Rise : Run)	
Scale: 1:3,200		PDF Print Date: 1/22/2024	
Mapped by: M3AOXPAC			
Additional Imagery info:			

Gulf Intracoastal Waterway: San Bernard River to Colorado River



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 4	4 - 6	6 - 8	8 - 10	10 - 12	12 - 14	14 - 16	16 - 18	< 18
Dark Blue	Blue	Light Blue	Green	Yellow	Orange	Red	Dark Red	Black

NOTES:
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World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

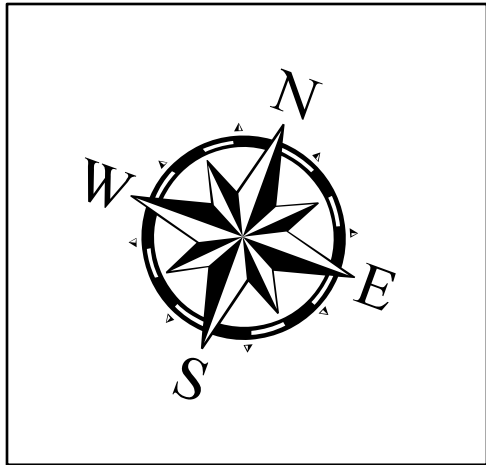
Dredging Reach Extent

0 0.33 0.65 1.3 Miles

Hydrographic Survey Extent

0 275 550 1,100 Feet

Latest Survey Collection Date: 11 January 2024		Authorized Depth: -14ft.	
Document Page: 19 of 25	Website Index Number: 109	Side Slope Ratio: (Rise : Run)	
Scale: 1:3,200		PDF Print Date: 1/22/2024	
Mapped by: M3AOXPAC			
Additional Imagery info:			



HYDROGRAPHIC SURVEY

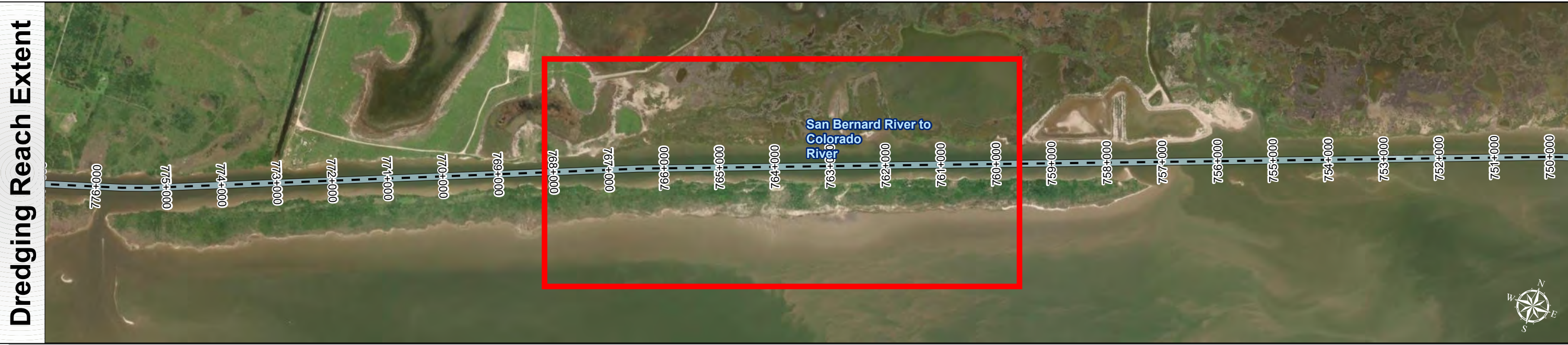
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000

GIWW

San Bernard River to Colorado River

Gulf Intracoastal Waterway: San Bernard River to Colorado River



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 4	4 - 6	6 - 8	8 - 10	10 - 12	12 - 14	14 - 16	16 - 18	< 18
Dark Blue	Blue	Light Blue	Green	Yellow	Orange	Red	Dark Red	Black

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2. Elevations are referenced to mean lower low tide (MLLW) datum.
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Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, MET/NASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

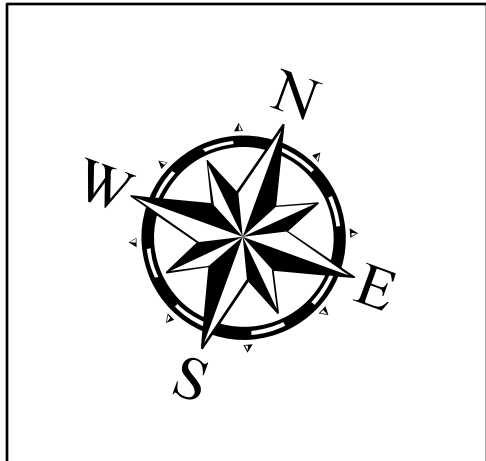
Dredging Reach Extent

0 0.33 0.65 1.3 Miles

Hydrographic Survey Extent

0 275 550 1,100 Feet

Latest Survey Collection Date: 11 January 2024		Authorized Depth: -14ft.	
Document Page: 20 of 25	Website Index Number: 110	Side Slope Ratio: (Rise : Run)	
Scale: 1:3,200		PDF Print Date: 1/22/2024	
Mapped by: M3AOXPAC			
Additional Imagery info:			



HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River

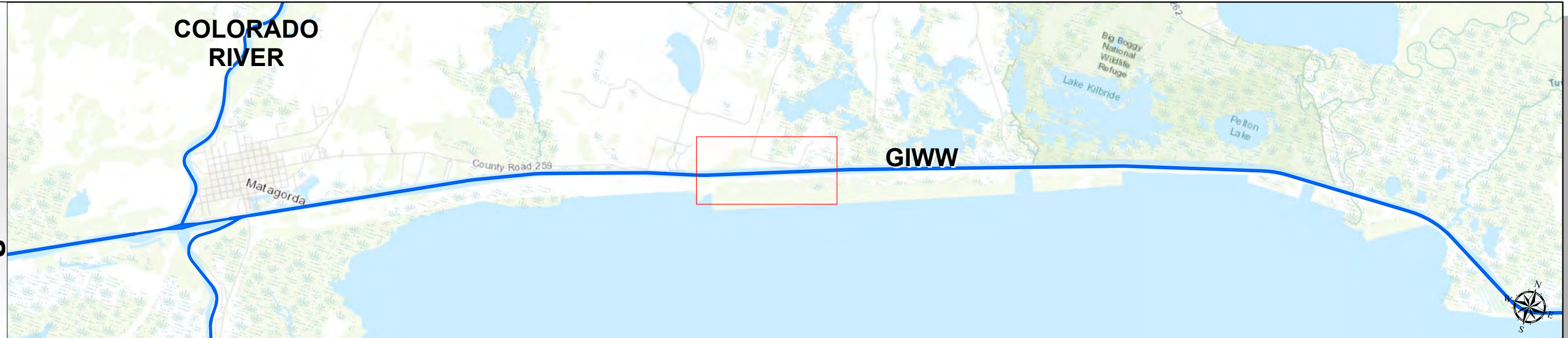
Gulf Intracoastal Waterway: San Bernard River to Colorado River



U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW



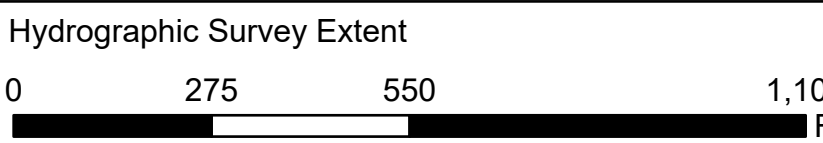
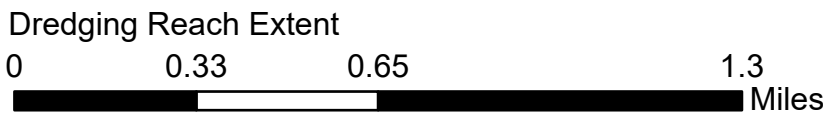
NOTES:

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 - Elevations are referenced to mean lower low tide (MLLW) datum.
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- Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NOAA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:

Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

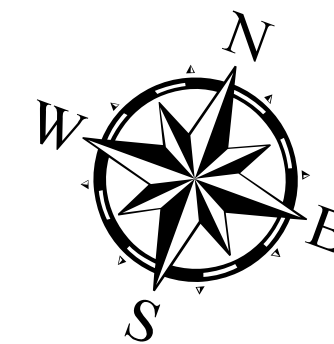


HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW

San Bernard River to Colorado River

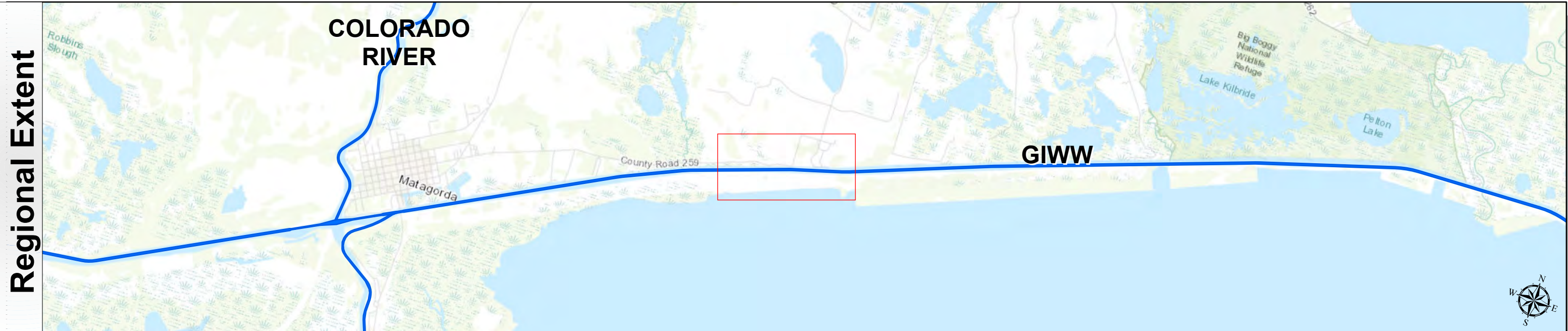


Latest Survey Collection Date: 11 January 2024		Authorized Depth: -14ft.	
Document Page: 21 of 25	Website Index Number: 111	Side Slope Ratio: (Rise : Run)	
Scale: 1:3,200	Mapped by: M3AOXPAC		PDF Print Date: 1/22/2024
Additional Imagery info:			

Gulf Intracoastal Waterway: San Bernard River to Colorado River



U.S. Army Corps of Engineers
Galveston District



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 4	4 - 6	6 - 8	8 - 10	10 - 12	12 - 14	14 - 16	16 - 18	< 18
Dark Blue	Blue	Light Blue	Green	Yellow	Orange	Red	Dark Red	Black

NOTES:
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Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

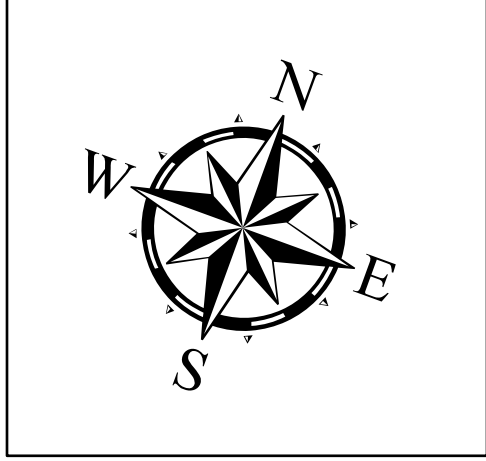
Dredging Reach Extent

0 0.33 0.65 1.3 Miles

Hydrographic Survey Extent

0 275 550 1,100 Feet

Latest Survey Collection Date: 11 January 2024		Authorized Depth: -14ft.
Document Page: 22 of 25	Website Index Number: 112	Side Slope Ratio: (Rise : Run)
Scale: 1:3,200		PDF Print Date: 1/22/2024
Mapped by: M3AOXPAC		
Additional Imagery info:		



HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River

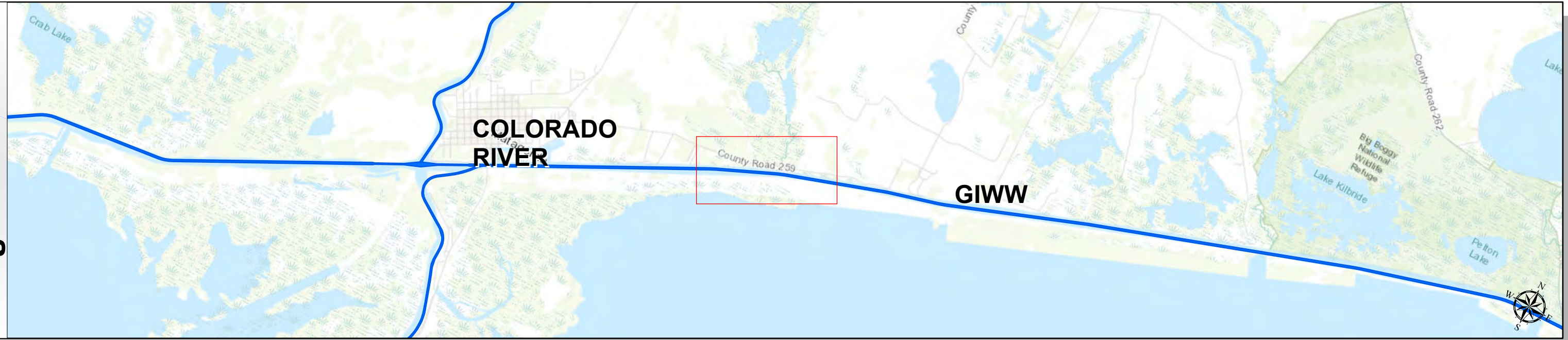
Gulf Intracoastal Waterway: San Bernard River to Colorado River



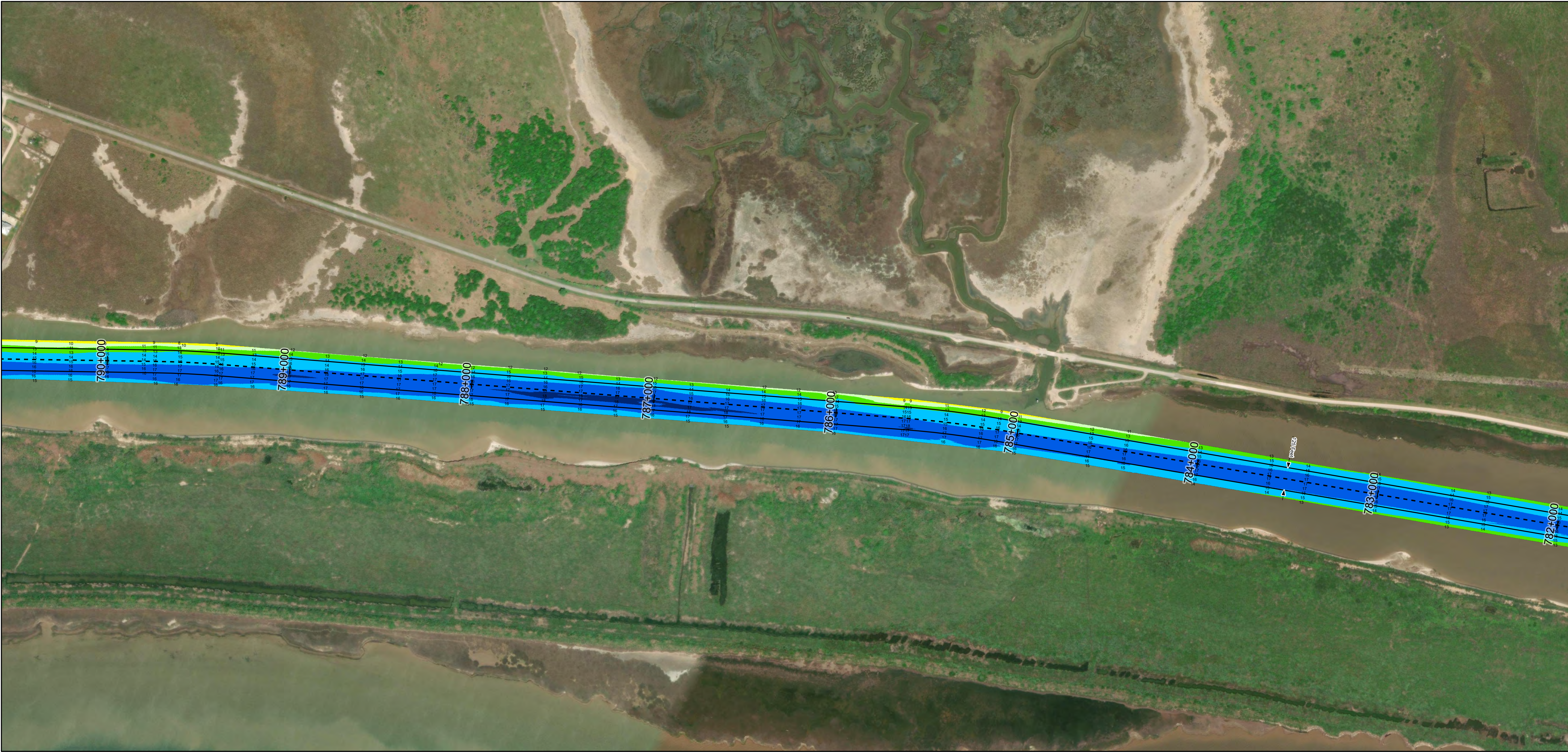
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

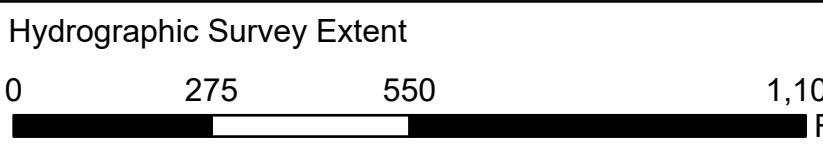
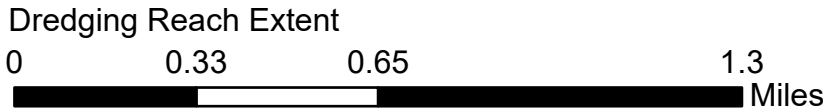
MLLW



NOTES:
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Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, MET/NASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

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Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

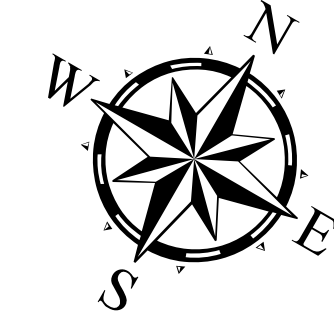
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024

Document Page: 23 of 25

Website Index Number: 113

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

Mapped by: M3AOXPAC

Additional Imagery info:

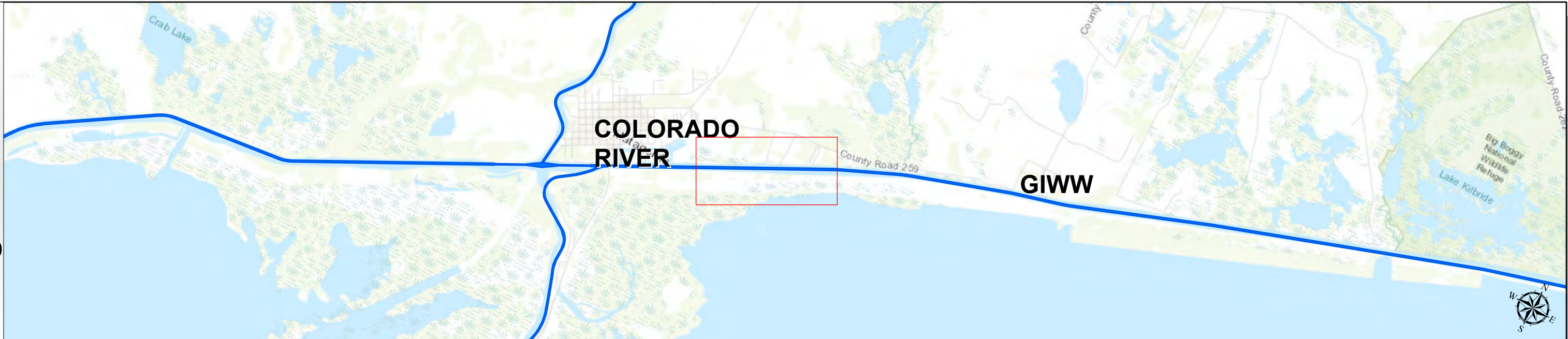
Gulf Intracoastal Waterway: San Bernard River to Colorado River



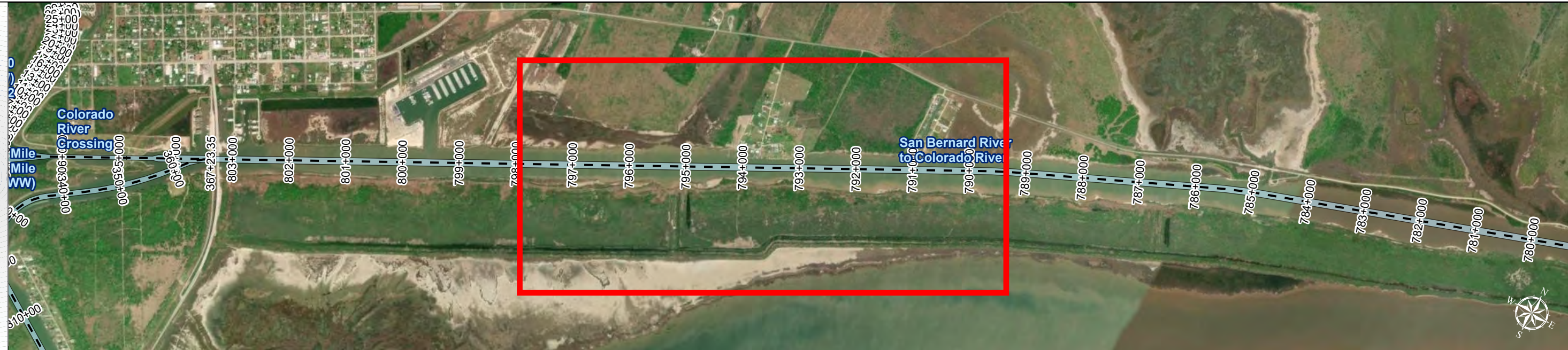
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

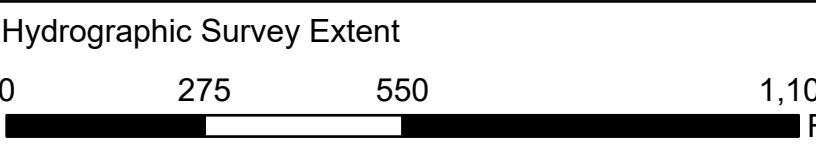
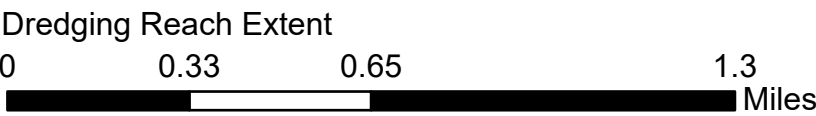
MLLW



NOTES:
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Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA, World Imagery: Maxar, World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000;
20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic



HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW
San Bernard River to Colorado River

Latest Survey Collection Date: 11 January 2024

Document Page: 24 of 25

Scale: 1:3,200

Mapped by: M3AOXPAC

Additional Imagery info:

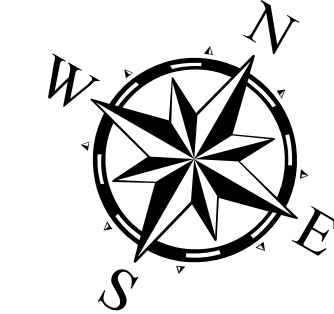
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Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

Website Index Number: 114

Website Index Number: 114



Gulf Intracoastal Waterway: San Bernard River to Colorado River



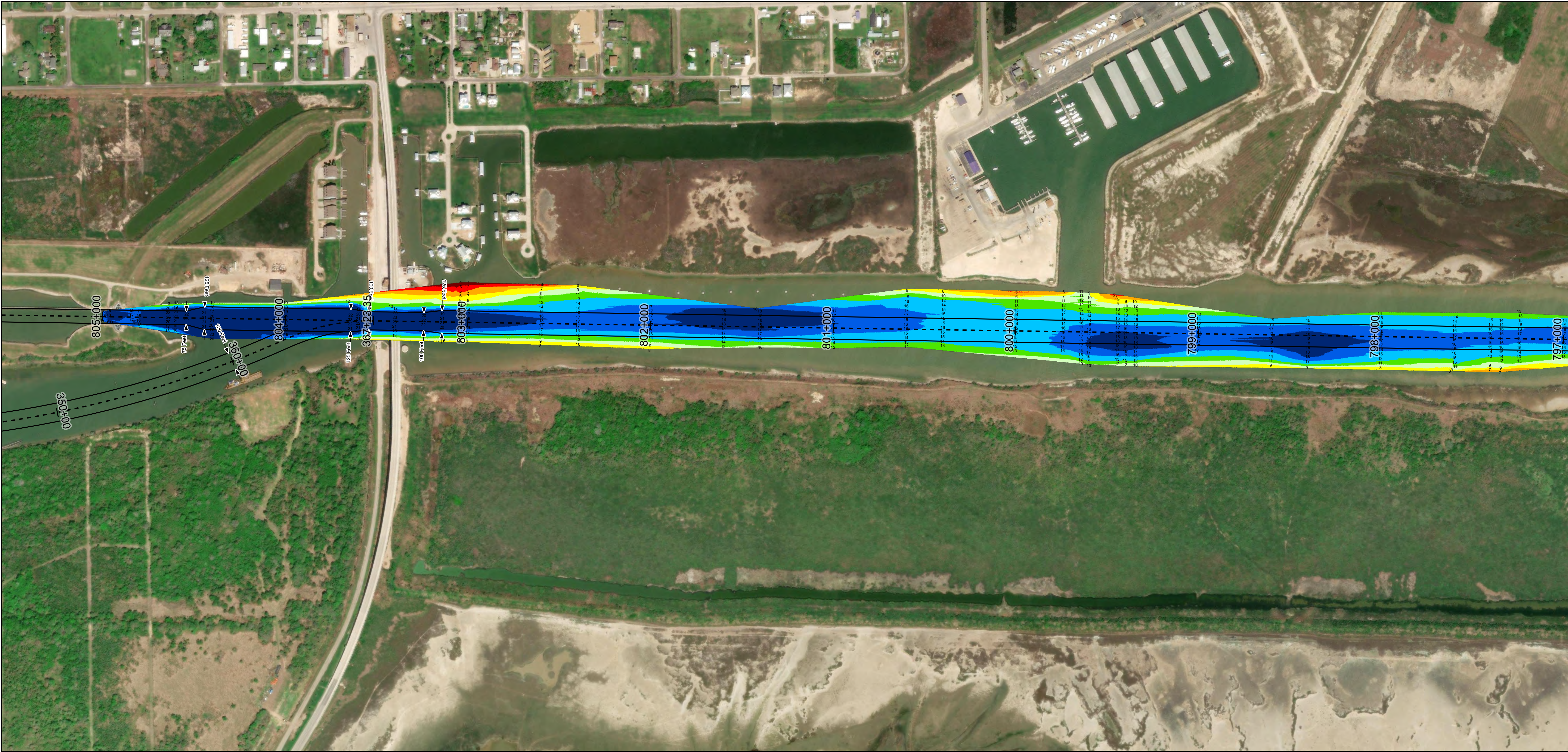
U.S. Army Corps of Engineers
Galveston District



Regional Extent



Dredging Reach Extent



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW



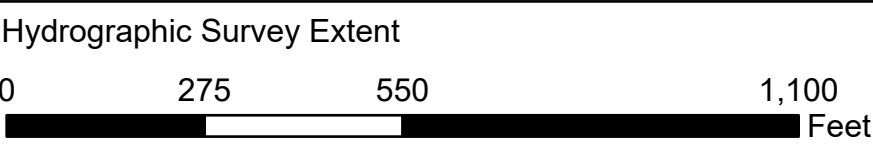
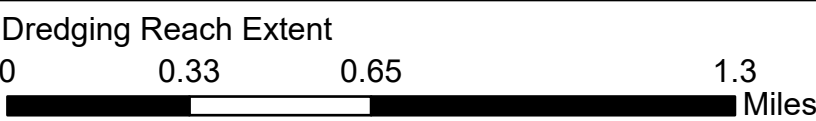
NOTES:

- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
 - Elevations are referenced to mean lower low tide (MLLW) datum.
 - This project was designed by the Galveston District of the U.S. Army Corps of Engineers. The initials and signatures and registration designations of individuals appear on these project documents within the scope of their employment as required by 47 CFR 111.11-111.12.
 - The information depicted on this survey 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. These conditions are subject to rapid change due to shoaling events. A prudent mariner should not rely exclusively on the information provided here. Required by 33 CFR 209.325
 - For the most up to date information please check our website at: <http://www.svg.usace.army.mil/Missions/Navigation/HydrographicSurveys/>
- Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA, World Imagery: Maxar, World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:

Combined survey dates 20230510_PR_614P000_688P000; 20231108_PR_658P000_805P000; 20240111_CS_15_24B0013_786P000_790P000; 20240111_CS_16_24B0013_790P000_794P000

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

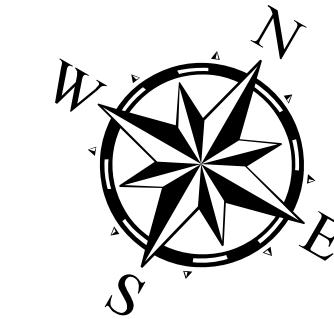


HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 614+000 to 805+000
GIWW

San Bernard River to Colorado River



Latest Survey Collection Date: 11 January 2024

Document Page: 25 of 25

Scale: 1:3,200

Mapped by: M3AOXPAC

Additional Imagery info:

Authorized Depth: -14ft.

Side Slope Ratio: (Rise : Run)

PDF Print Date: 1/22/2024

Website Index Number: 115