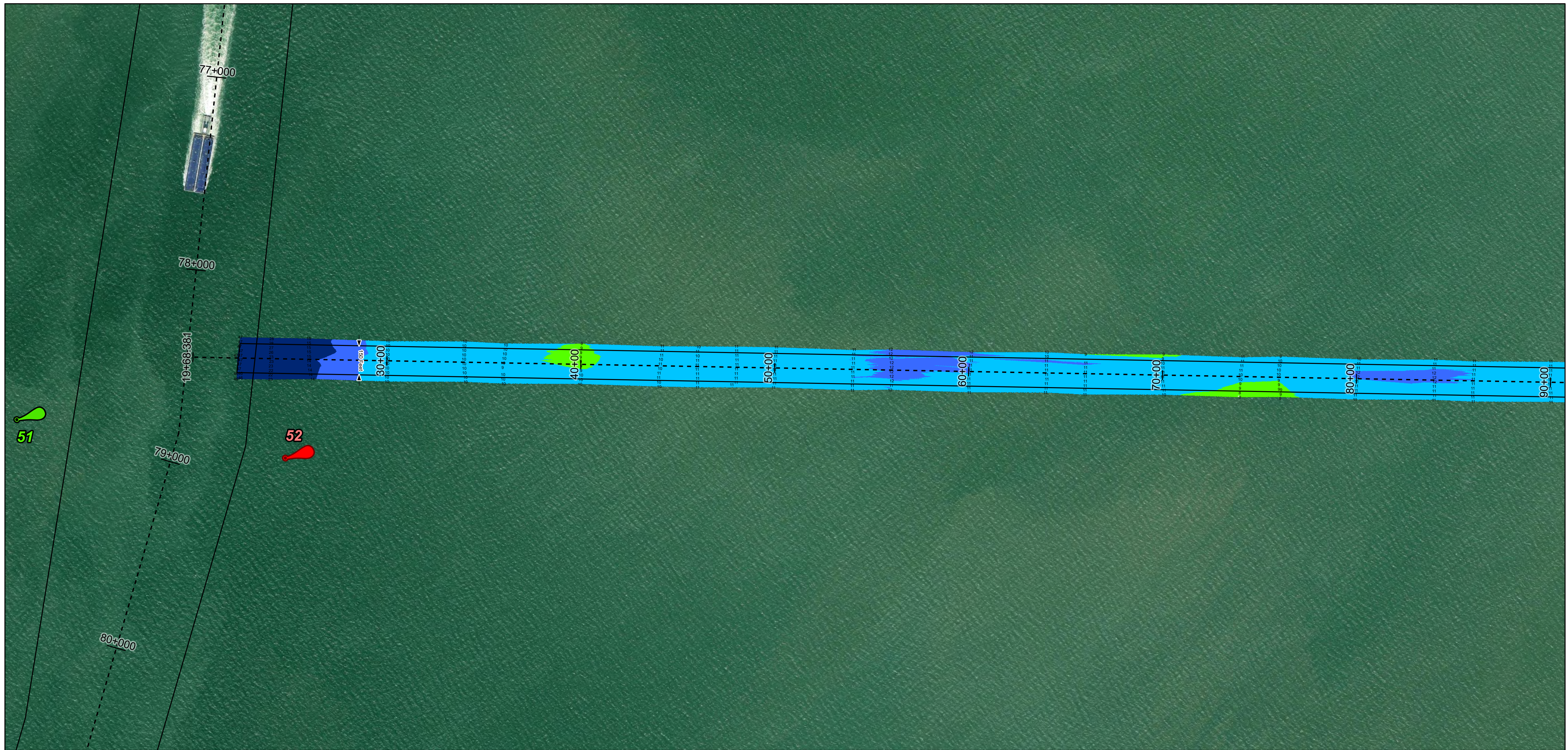
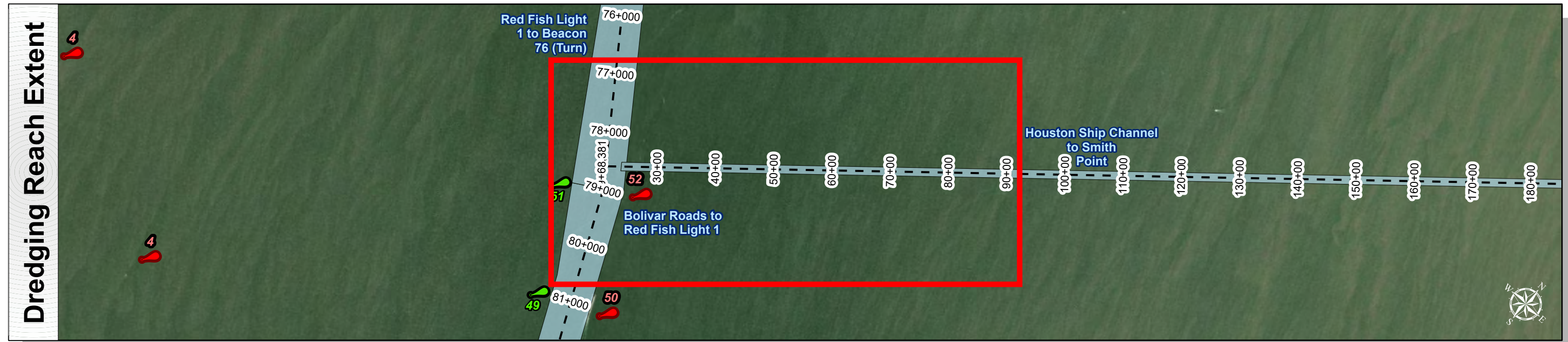
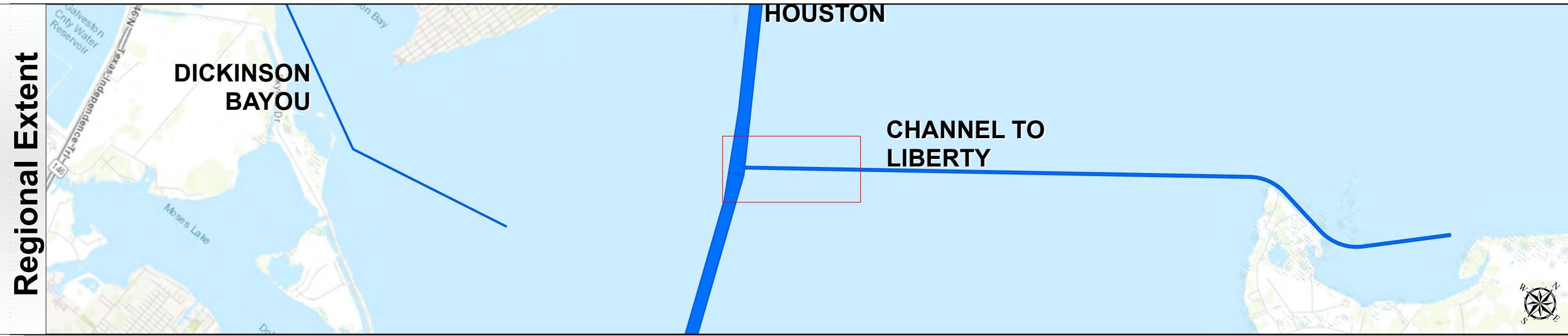


Channel to Liberty: Houston Ship Channel to Smith Point



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 24 April 2024	Authorized Depth: -10ft.
Document Page: 1 of 7	Side Slope Ratio: (Rise : Run)
Scale: 1:3,000	PDF Print Date: 5/29/2024
Mapped by: M3AOXPAC	
Additional Imagery info:	

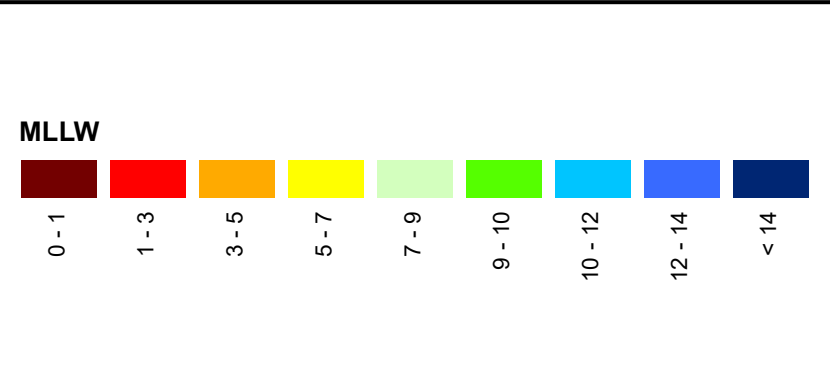


Channel Features

- Channel Center Line
- Channel Toe
- ↔ Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

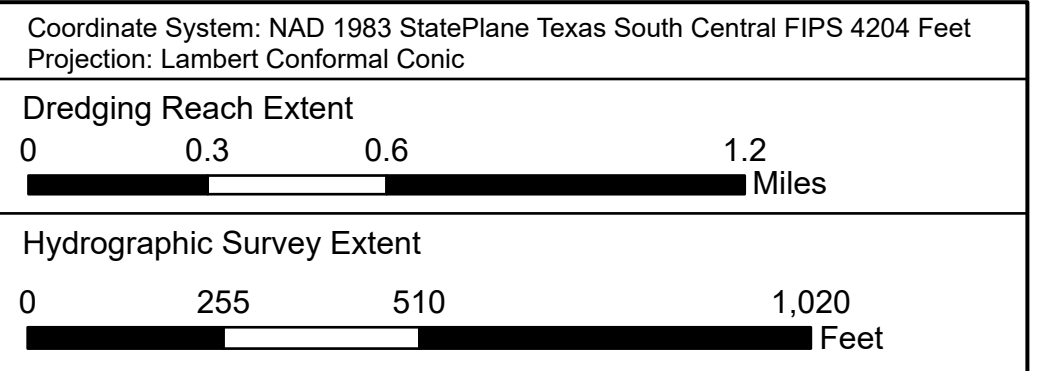


NOTES:

- 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 117.1-117.12.
- 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, METINASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
 Combined survey dates 20240329_PR_22P27_264P00; 20240424_PR_264P00_340P00;
 (20240425_CS_340P00_450P00)



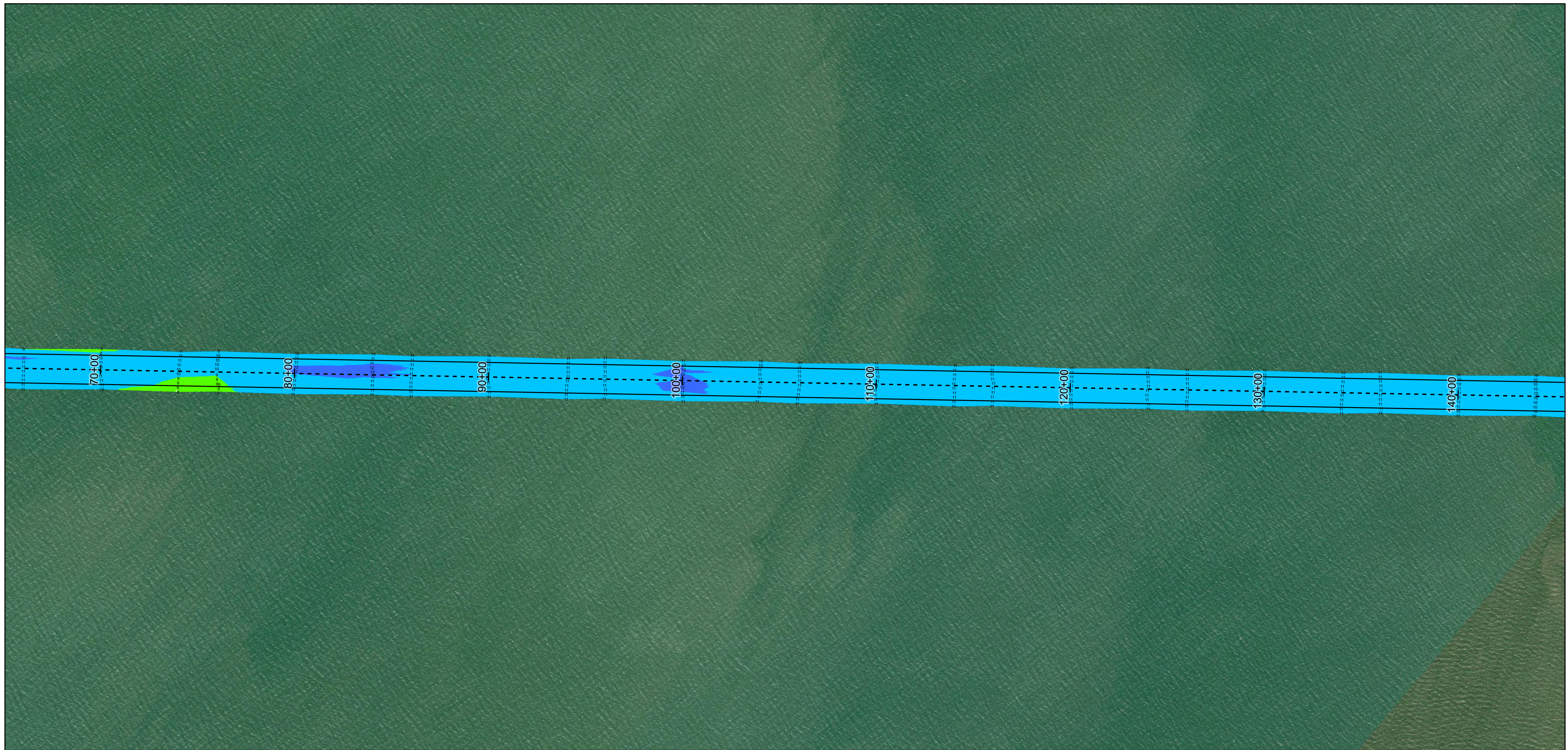
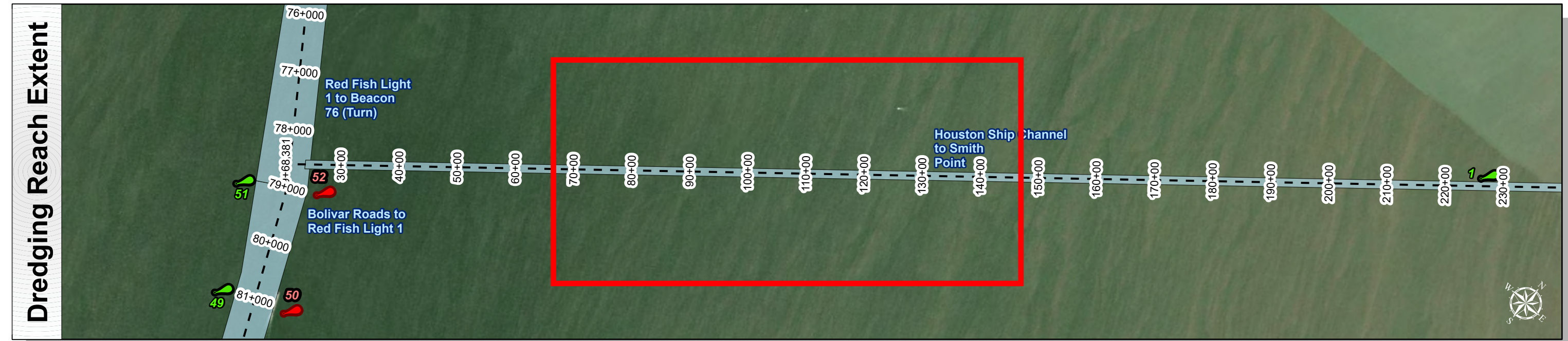
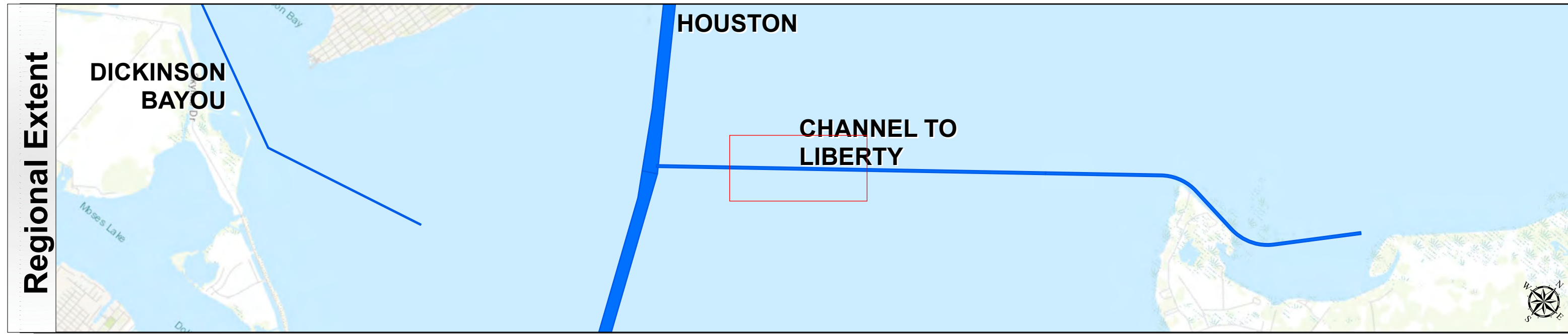
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

Station: 19+68.381 to 450+00
CHANNEL TO LIBERTY
 Houston Ship Channel to Smith Point

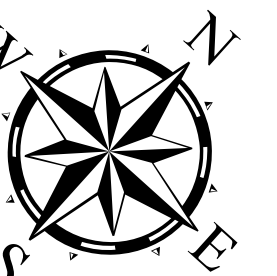
Channel to Liberty: Houston Ship Channel to Smith Point



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 24 April 2024	Authorized Depth: -10ft.
Document Page: 2 of 7	Side Slope Ratio: (Rise : Run)
Scale: 1:3,000	PDF Print Date: 5/29/2024
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features

- Channel Center Line
- Channel Toe
- ↔ Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 1	1 - 3	3 - 5	5 - 7	7 - 9	9 - 10	10 - 12	12 - 14	< 14
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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 110.1-8152.
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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, METINASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
 Combined survey dates 20240329_PR_22P27_264P00; 20240424_PR_264P00_340P00;
 (20240425_CS_340P00_450P00)

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

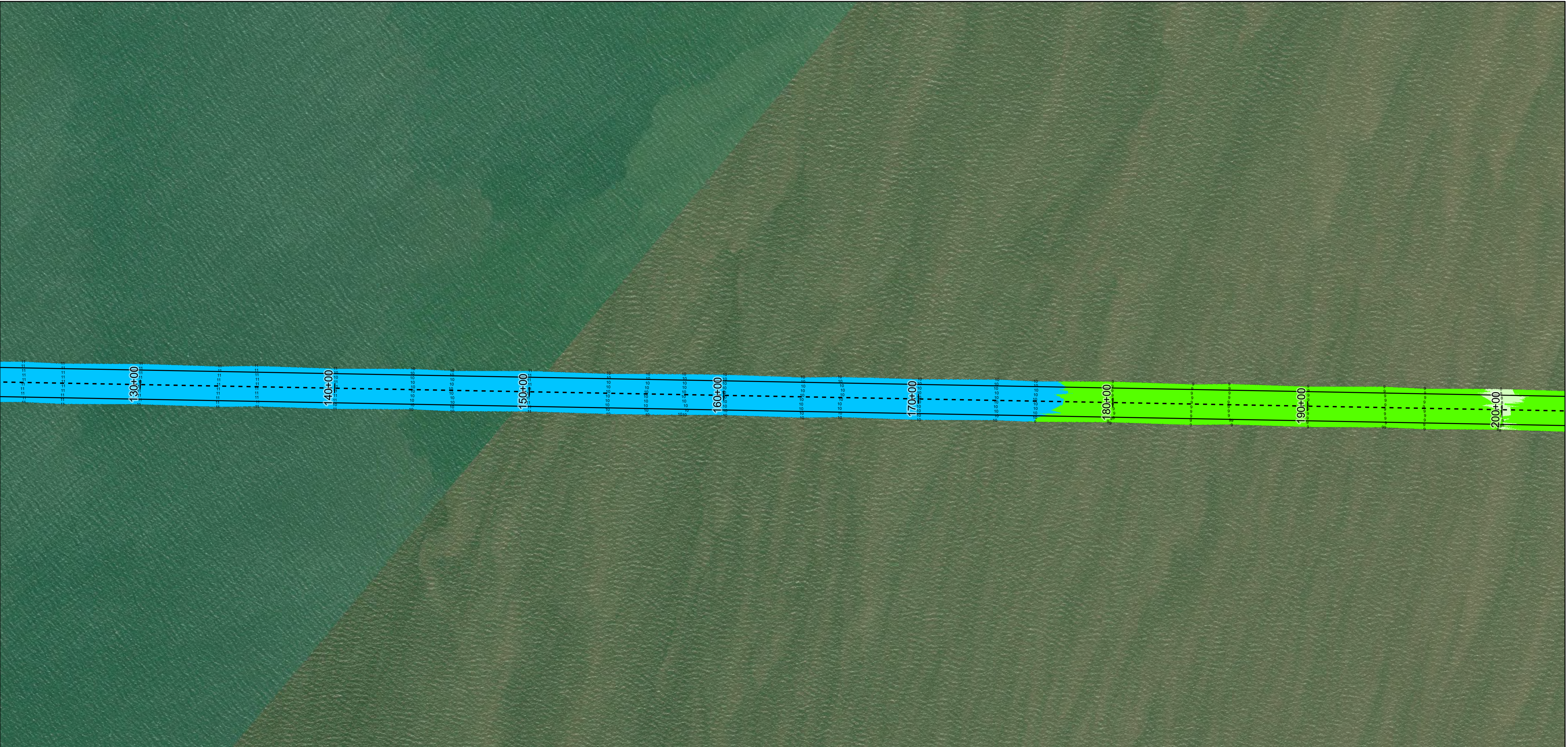
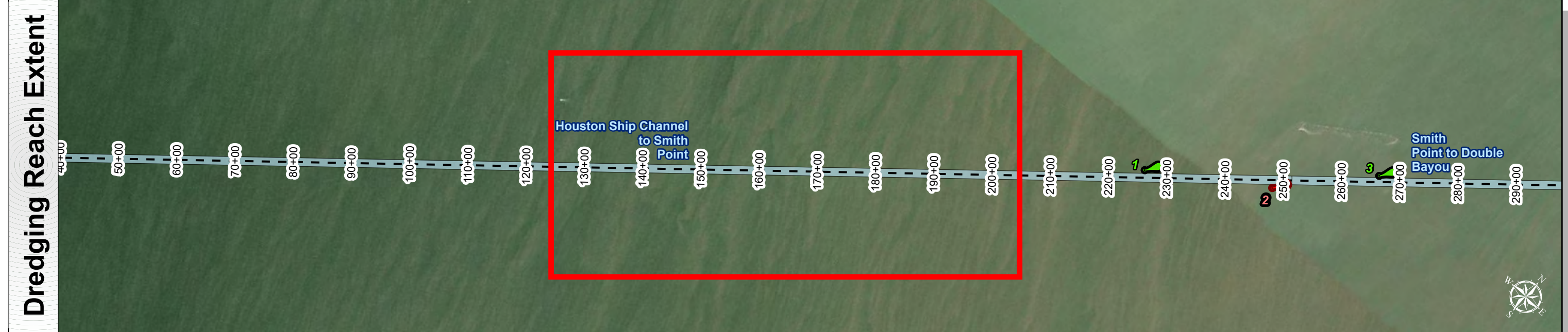
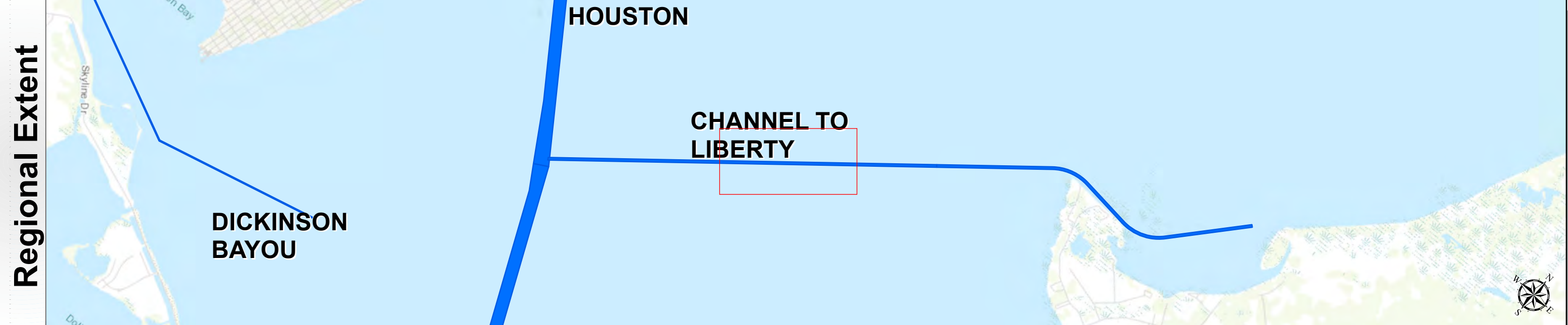
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

Station: 19+68.381 to 450+00
CHANNEL TO LIBERTY
 Houston Ship Channel to Smith Point

Channel to Liberty: Houston Ship Channel to Smith Point



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 24 April 2024	Authorized Depth: -10ft.
Document Page: 3 of 7	Side Slope Ratio: (Rise : Run)
Scale: 1:3,000	PDF Print Date: 5/29/2024
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features

- Channel Center Line
- Channel Toe
- ↔ Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 1	1 - 3	3 - 5	5 - 7	7 - 9	9 - 10	10 - 12	12 - 14	< 14
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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 110.41-152.
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Service Layer Credits: World Topographic Map: 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 20240329_PR_22P27_264P00; 20240424_PR_264P00_340P00;
 (20240425_CS_340P00_450P00)

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

Dredging Reach Extent

Hydrographic Survey Extent

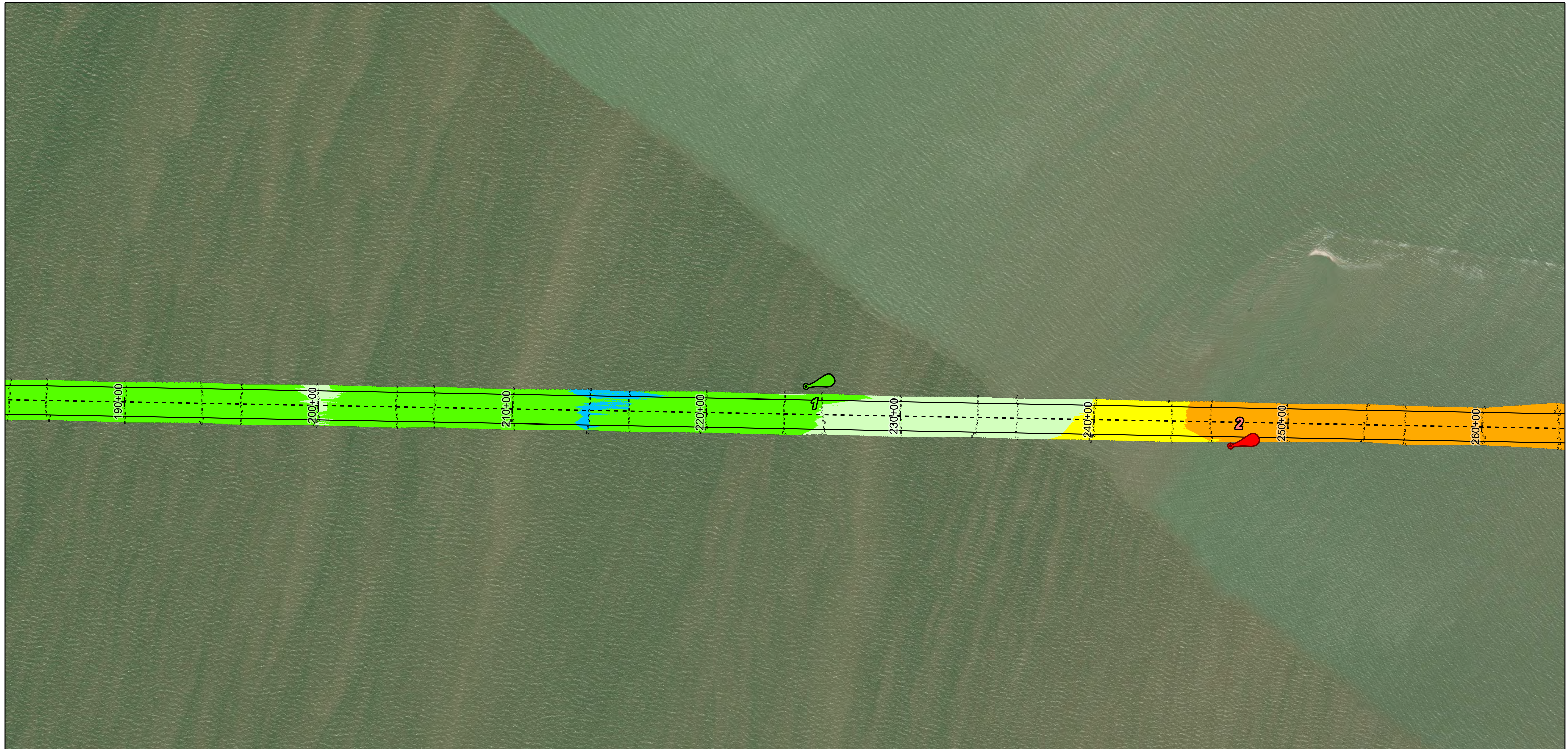
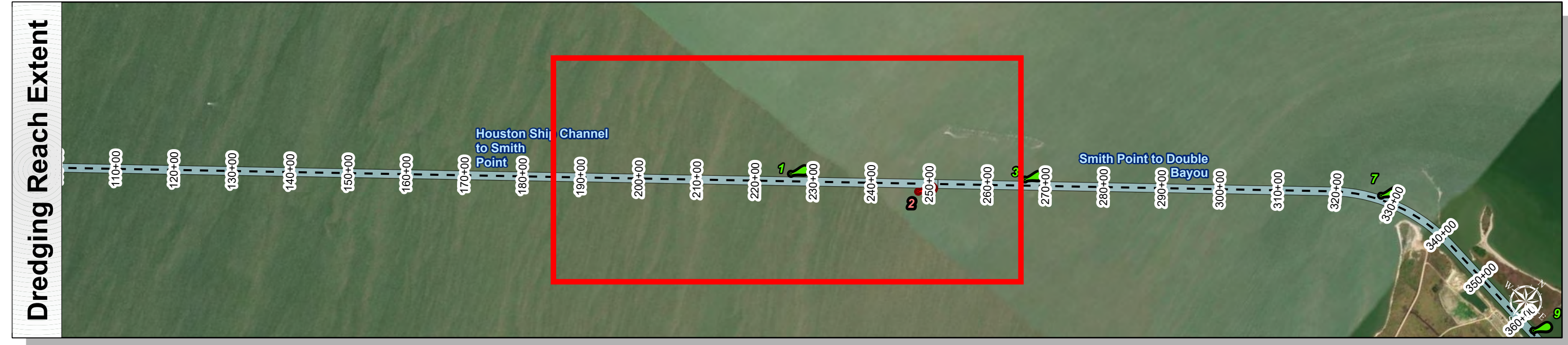
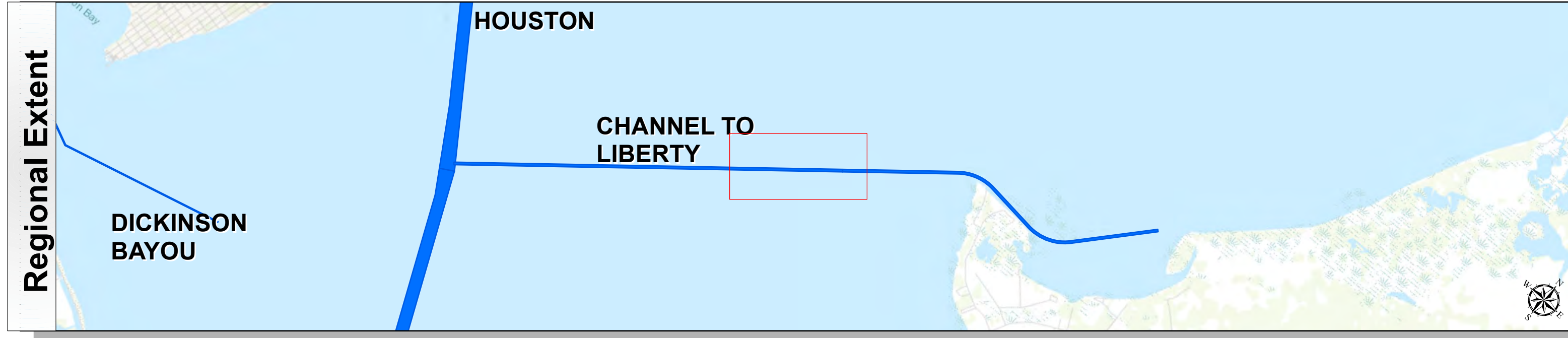
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

Station: 19+68.381 to 450+00
CHANNEL TO LIBERTY
 Houston Ship Channel to Smith Point

Channel to Liberty: Houston Ship Channel to Smith Point



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 24 April 2024	Authorized Depth: -10ft.
Document Page: 4 of 7	Side Slope Ratio: (Rise : Run)
Scale: 1:3,000	PDF Print Date: 5/29/2024
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features

- Channel Center Line
- Channel Toe
- ↔ Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 1	1 - 3	3 - 5	5 - 7	7 - 9	9 - 10	10 - 12	12 - 14	< 14
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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.
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Service Layer Credits: World Topographic Map: 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 20240329_PR_22P27_264P00; 20240424_PR_264P00_340P00;
 (20240425_CS_340P00_450P00)

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

Dredging Reach Extent

Hydrographic Survey Extent

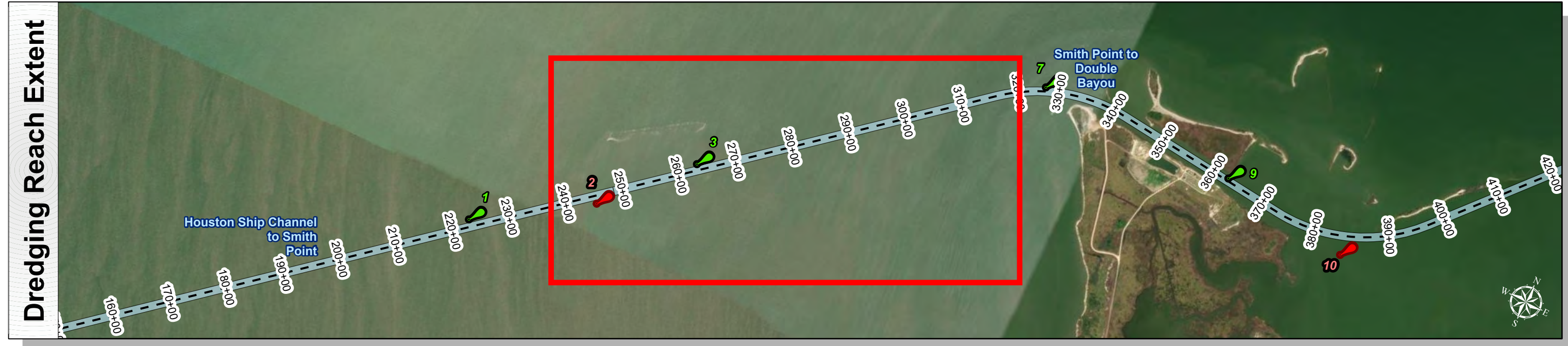
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

Station: 19+68.381 to 450+00
CHANNEL TO LIBERTY
 Houston Ship Channel to Smith Point

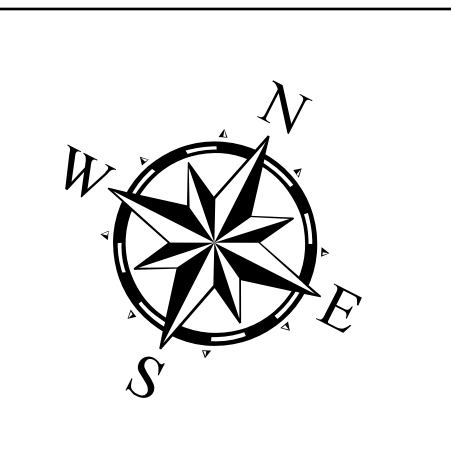
Channel to Liberty: Houston Ship Channel to Smith Point



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 24 April 2024	Authorized Depth: -10ft.
Document Page: 5 of 7	Side Slope Ratio: (Rise : Run)
Scale: 1:3,000	PDF Print Date: 5/29/2024
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features

- Channel Center Line
- Channel Toe
- ↔ Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 1	1 - 3	3 - 5	5 - 7	7 - 9	9 - 10	10 - 12	12 - 14	< 14
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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, METINASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
 Combined survey dates 20240329_PR_22P27_264P00; 20240424_PR_264P00_340P00;
 (20240425_CS_340P00_450P00)

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

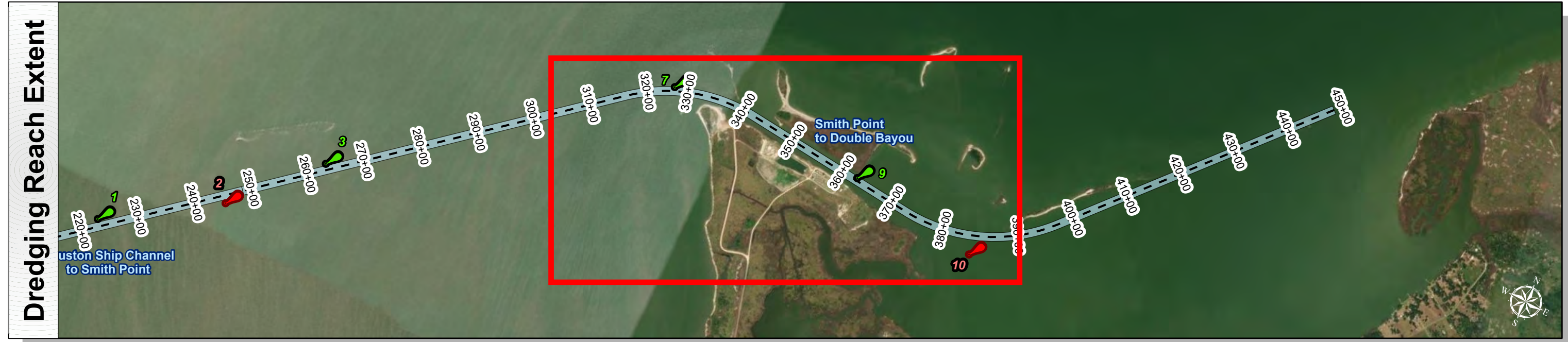
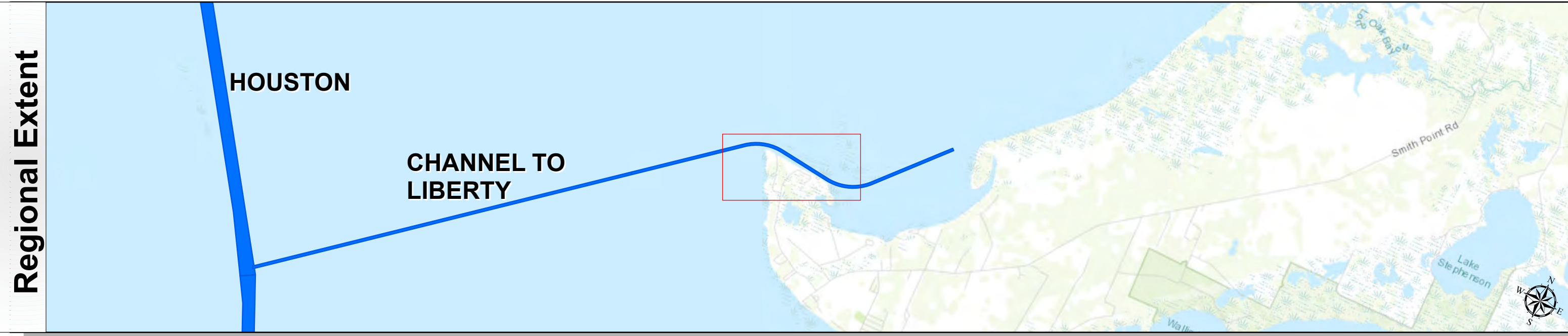
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

Station: 19+68.381 to 450+00
CHANNEL TO LIBERTY
 Houston Ship Channel to Smith Point

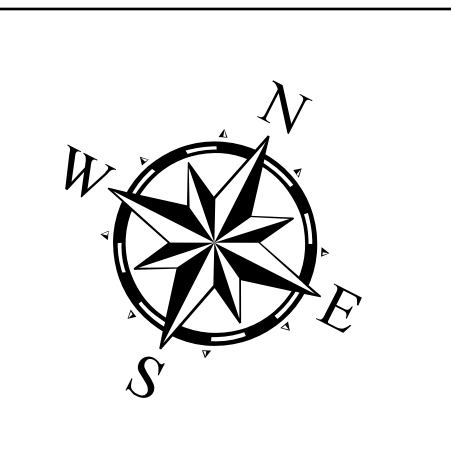
Channel to Liberty: Houston Ship Channel to Smith Point



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 24 April 2024	Authorized Depth: -10ft.
Document Page: 6 of 7	Side Slope Ratio: (Rise : Run)
Scale: 1:3,000	PDF Print Date: 5/29/2024
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features

- Channel Center Line
- Channel Toe
- ↔ Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

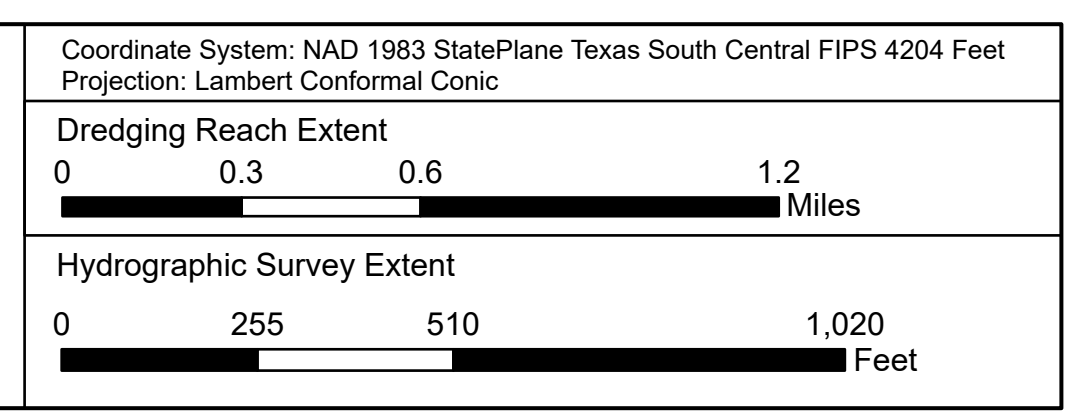
0 - 1	1 - 3	3 - 5	5 - 7	7 - 9	9 - 10	10 - 12	12 - 14	< 14
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NOTES:

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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, METINASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
 Combined survey dates 20240329_PR_22P27_264P00; 20240424_PR_264P00_340P00;
 (20240425_CS_340P00_450P00)



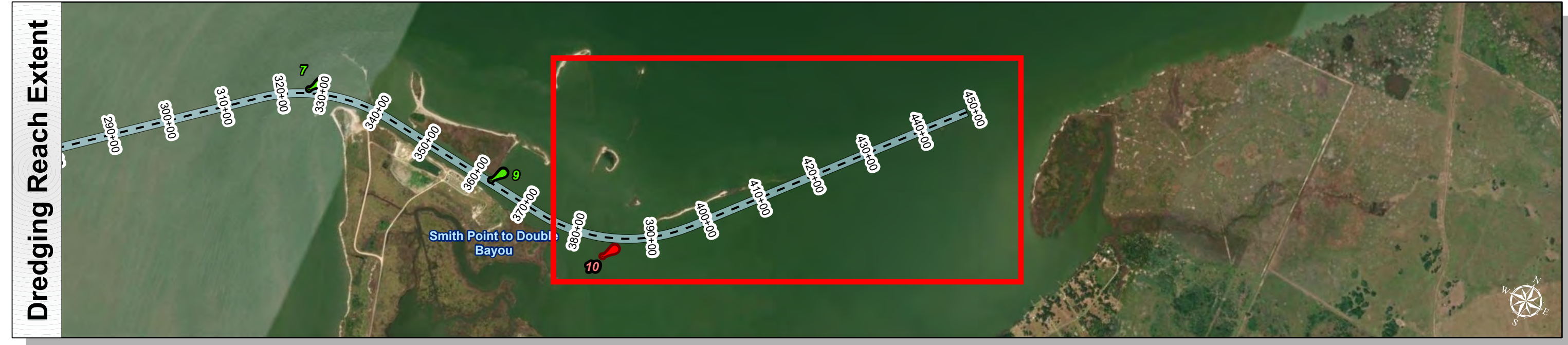
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

Station: 19+68.381 to 450+00
CHANNEL TO LIBERTY
 Houston Ship Channel to Smith Point

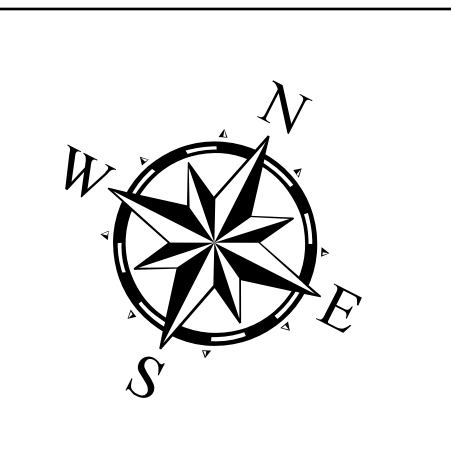
Channel to Liberty: Houston Ship Channel to Smith Point



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 24 April 2024	Authorized Depth: -10ft.
Document Page: 7 of 7	Side Slope Ratio: (Rise : Run)
Scale: 1:3,000	PDF Print Date: 5/29/2024
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features

- Channel Center Line
- Channel Toe
- ↔ Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 1	1 - 3	3 - 5	5 - 7	7 - 9	9 - 10	10 - 12	12 - 14	< 14
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NOTES:

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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, METINASA, NGA, EPA, USDA
World Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:
 Combined survey dates 20240329_PR_22P27_264P00; 20240424_PR_264P00_340P00;
 (20240425_CS_340P00_450P00)

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: 19+68.381 to 450+00
CHANNEL TO LIBERTY
 Houston Ship Channel to Smith Point