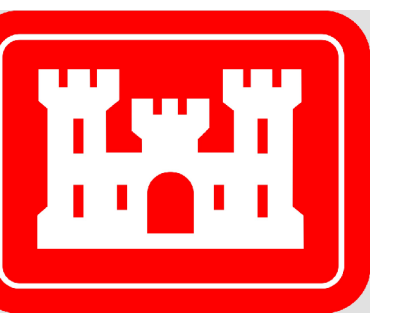
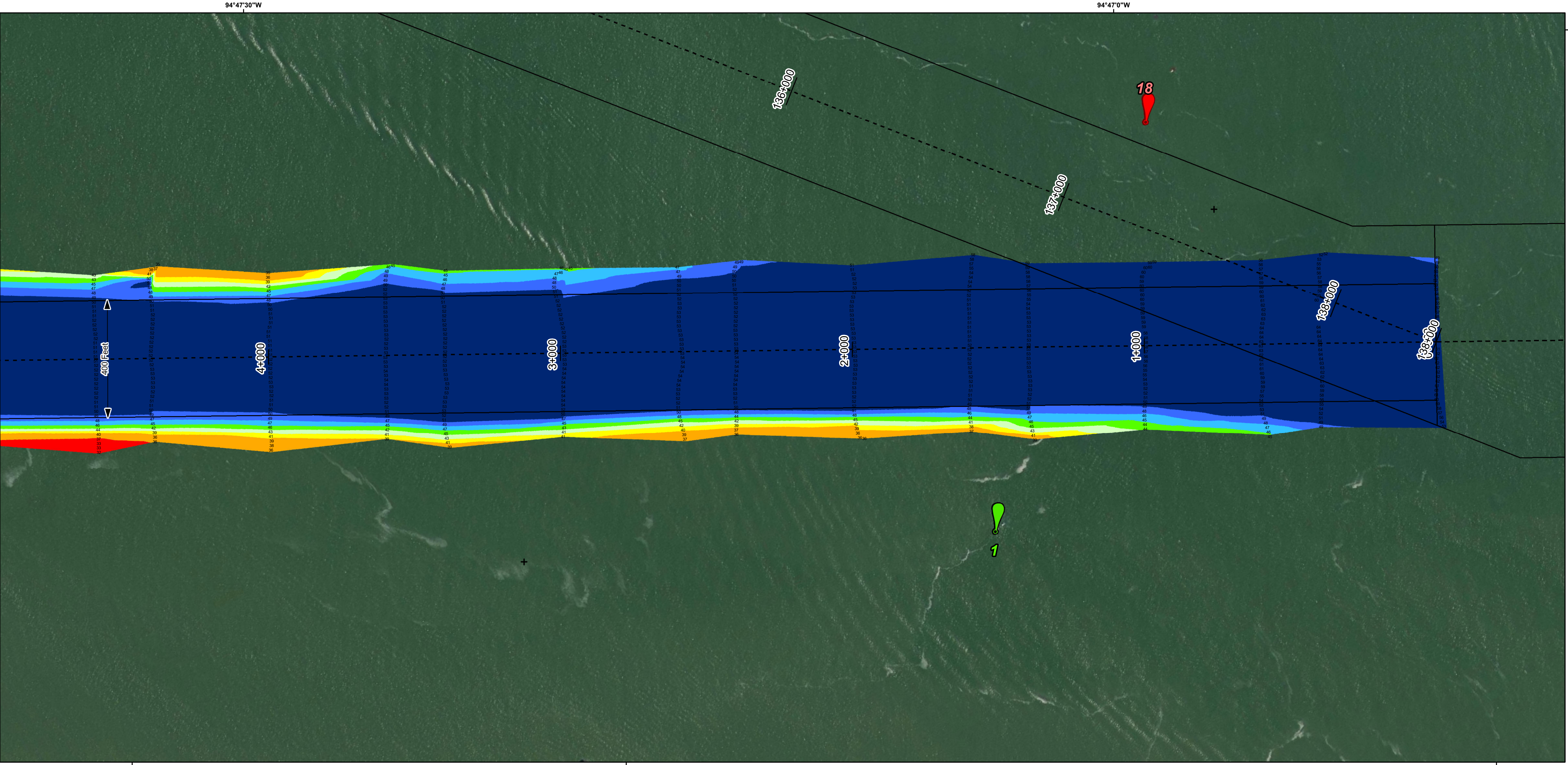
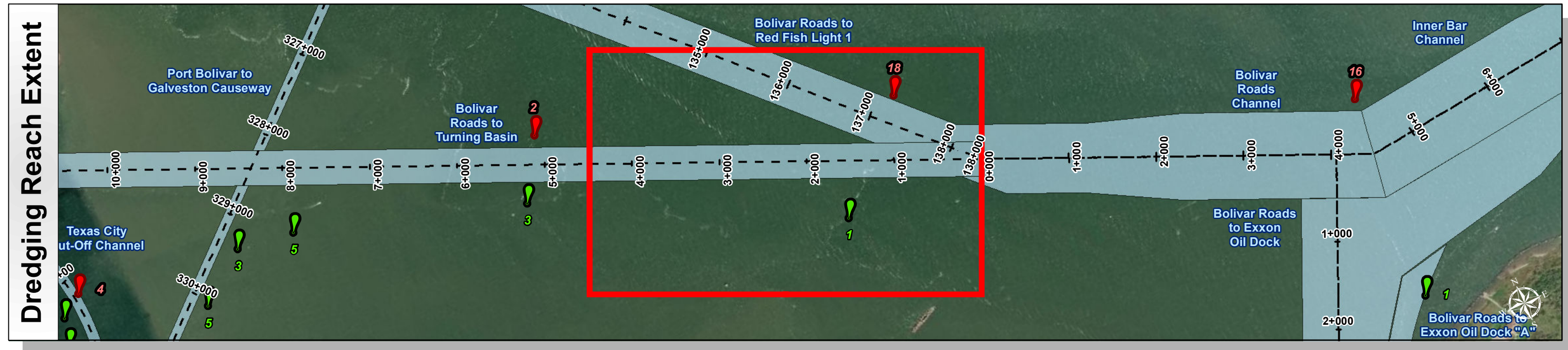
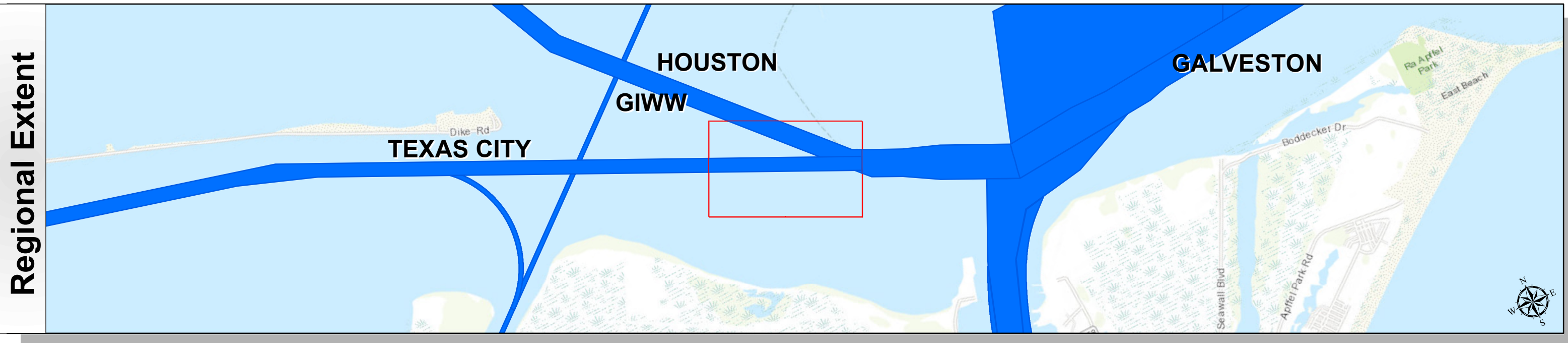


Texas City Harbor Channel: Bolivar Roads to Turning Basin



U.S. Army Corps of Engineers
Galveston District



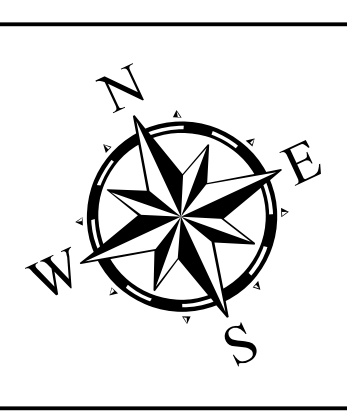
Channel Features	
	Channel Toe
	Channel Center Line
	Channel Station Lines
	Channel Dimensions

Aids to Navigation	
	Green Side Aids
	Red Side Aids
	Lights

MLLW	
0 - 30	30 - 35
35 - 40	40 - 42
42 - 44	44 - 46
46 - 48	48 - 50
< 50	

NOAA Bathymetry (DREDGING REACH EXTENT)	
0 - 10	10 - 15
15 - 20	20 - 25
25 - 30	30 - 50

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 ER1110-1-8152.
 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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 6. NOAA BATHYMETRY CONTOURS PRODUCED FROM HISTORIC BATHYMETRIC (HYDROGRAPHIC) SURVEYS CONDUCTED BY THE NOAA NATIONAL OCEAN SERVICE/COAST SURVEY, AVAILABLE FROM THE NATIONAL GEOPHYSICAL DATA CENTER. SURVEYS VARY AS TO SOUNDING DENSITY, ACCURACY OF DEPTH, ACCURACY OF NAVIGATION, ZERO DATUM, DATE OF SURVEY AND TYPE OF INSTRUMENTATION.



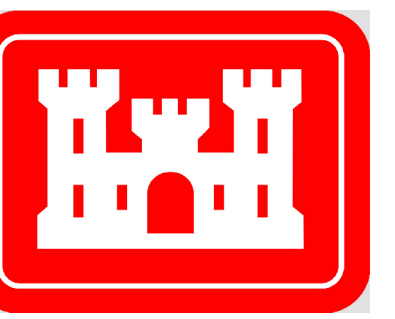
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet Projection: Lambert Conformal Conic /Datum: North American 1983	
Dredging Reach Extent	0 0.2 0.4 0.8 Miles
Hydrographic Survey Extent	0 175 350 700 Feet

Survey Date(s): 23 September 2019	Authorized Depth: -46ft.
Page: 1 of 12	Side Slope Ratio: (Rise : Run)
Scale: 1:2,000	Additional Imagery: © DigitalGlobe Inc.
Mapped by: m3odmmg	Print Date: 9/25/2019
Additional Info:	

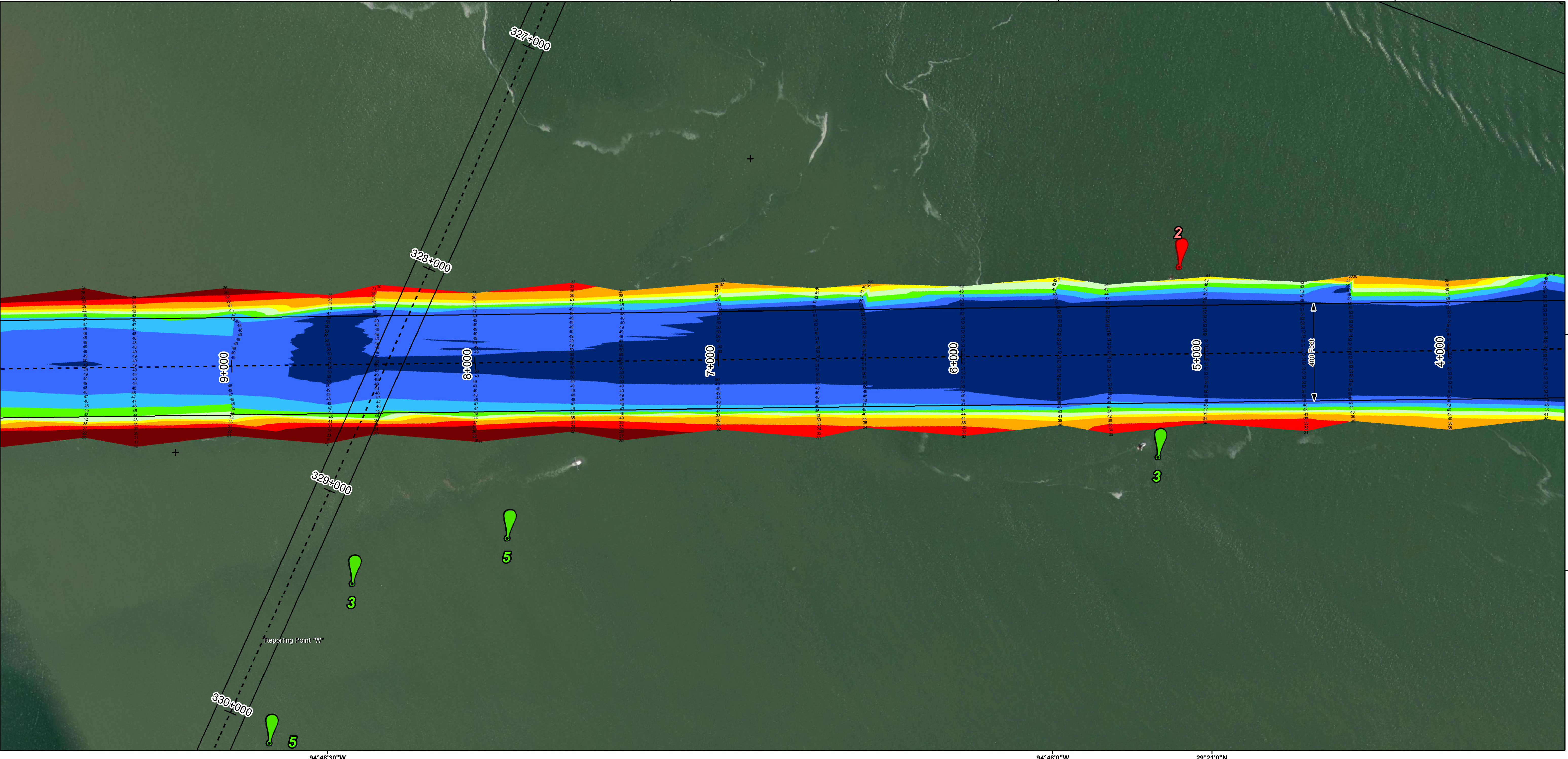
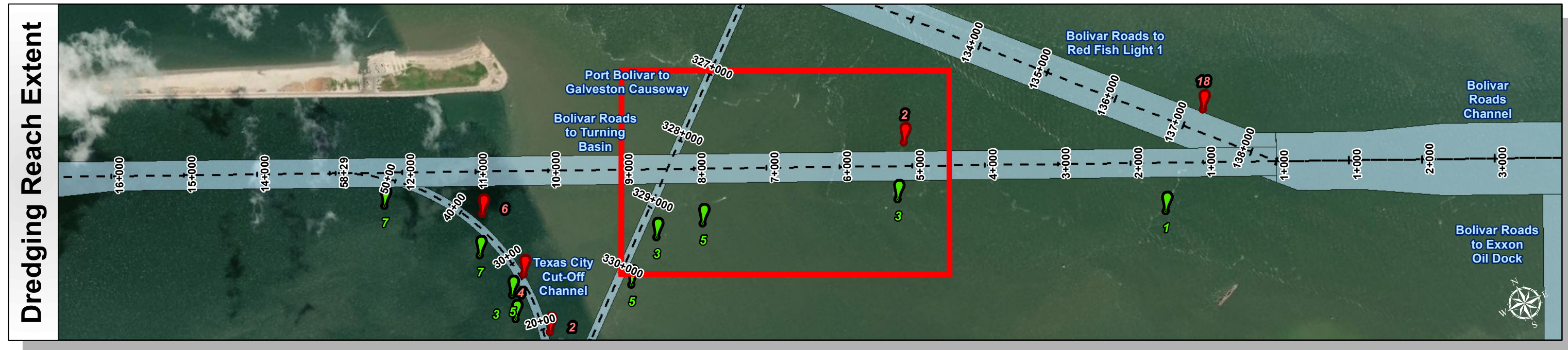
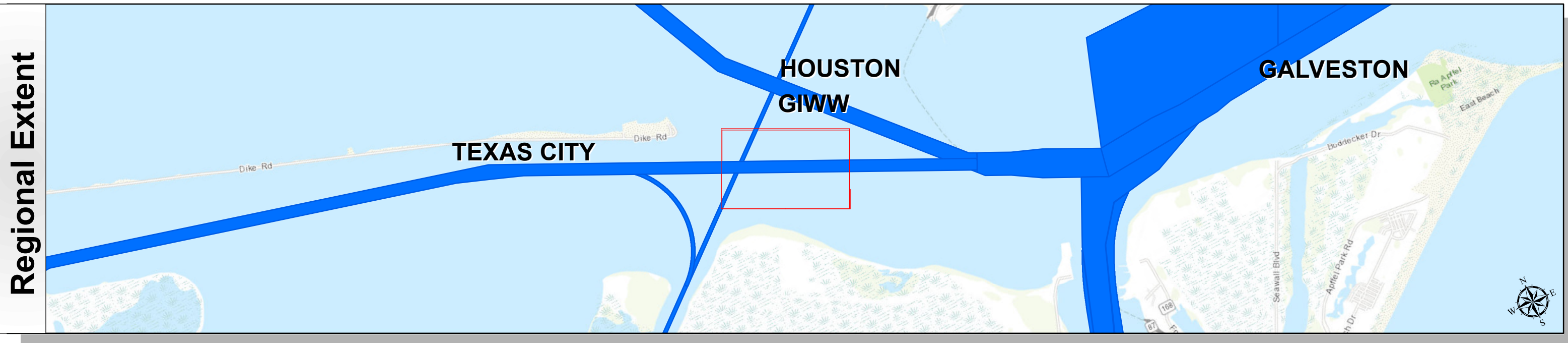
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

Station: 0+000 to 36+200.7
TEXAS CITY
 TEXAS CITY, TEXAS

Texas City Harbor Channel: Bolivar Roads to Turning Basin



U.S. Army Corps of Engineers
Galveston District

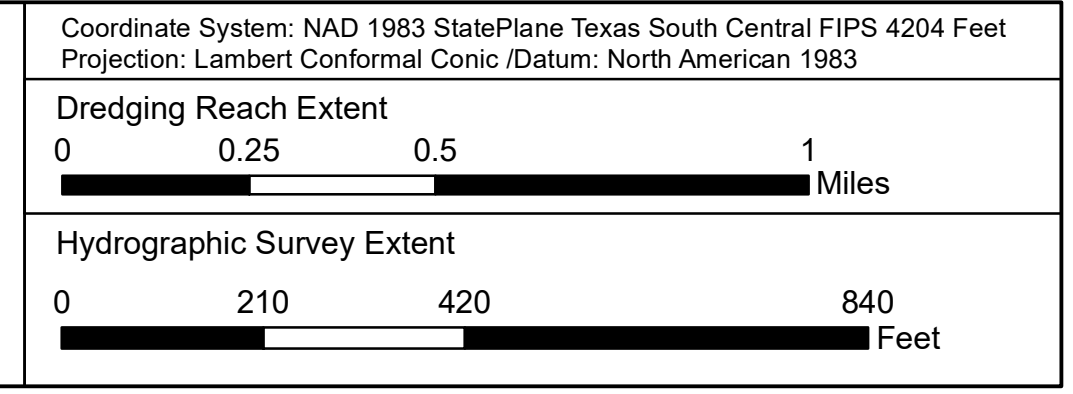
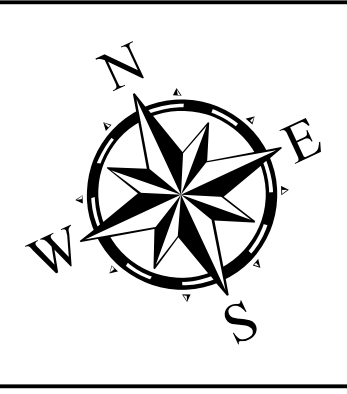


Channel Features	Aids to Navigation	MLLW
<ul style="list-style-type: none"> Channel Toe Channel Center Line Channel Station Lines Channel Dimensions 	<ul style="list-style-type: none"> Green Side Aids Red Side Aids Lights 	<p>0 - 30 30 - 35 35 - 40 40 - 42 42 - 44 44 - 46 46 - 48 48 - 50 < 50</p> <p>NOAA Bathymetry (DREDGING REACH EXTENT)</p> <p>0 - 10 10 - 15 15 - 20 20 - 25 25 - 30 30 - 50</p>

NOTES:

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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

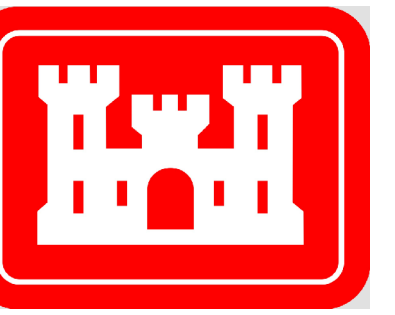


Survey Date(s): 23 September 2019	Authorized Depth: -46ft.
Page: 2 of 12	Side Slope Ratio: (Rise : Run)
Scale: 1:2,400	Additional Imagery: © DigitalGlobe Inc.
Mapped by: m3odmmg	Print Date: 9/25/2019
Additional Info:	

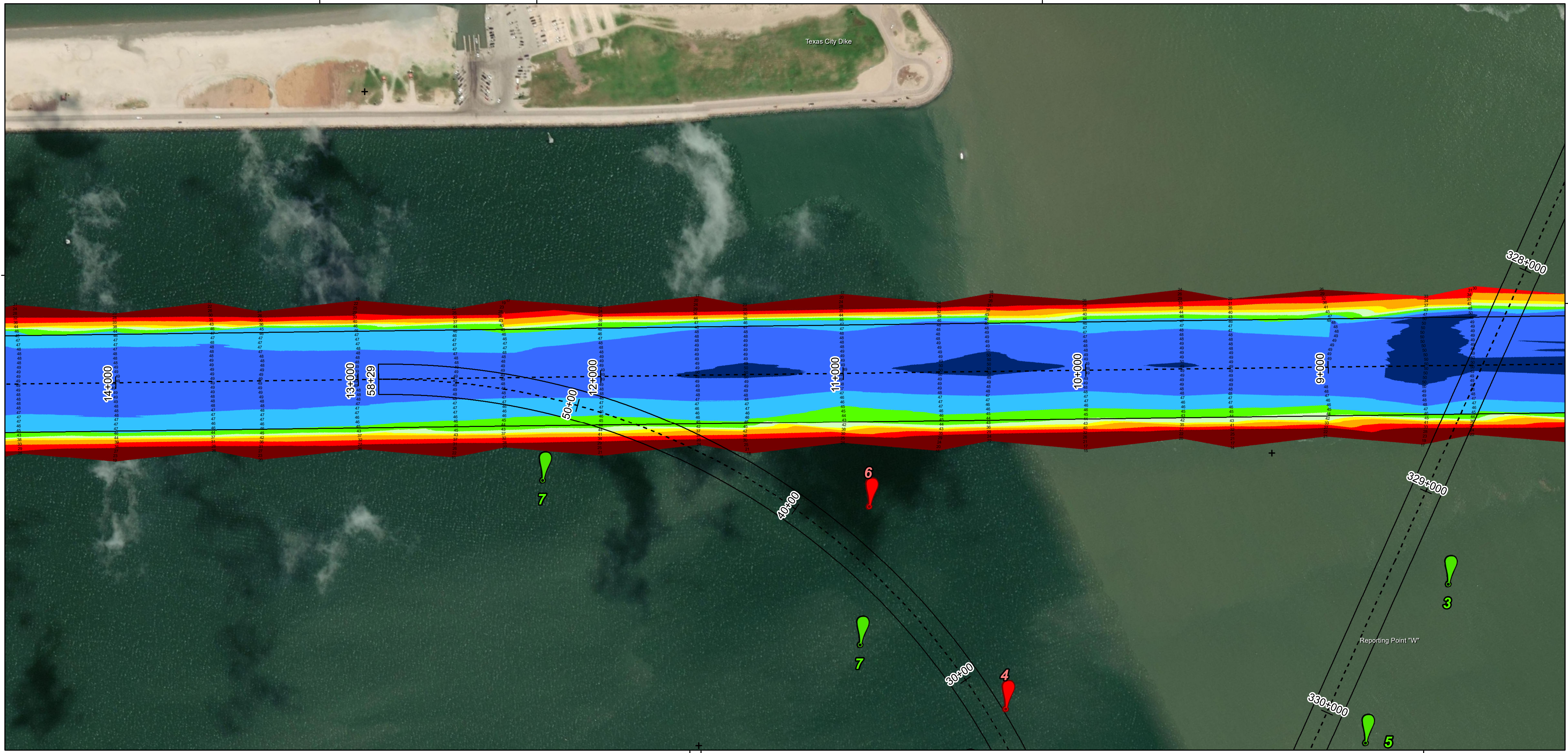
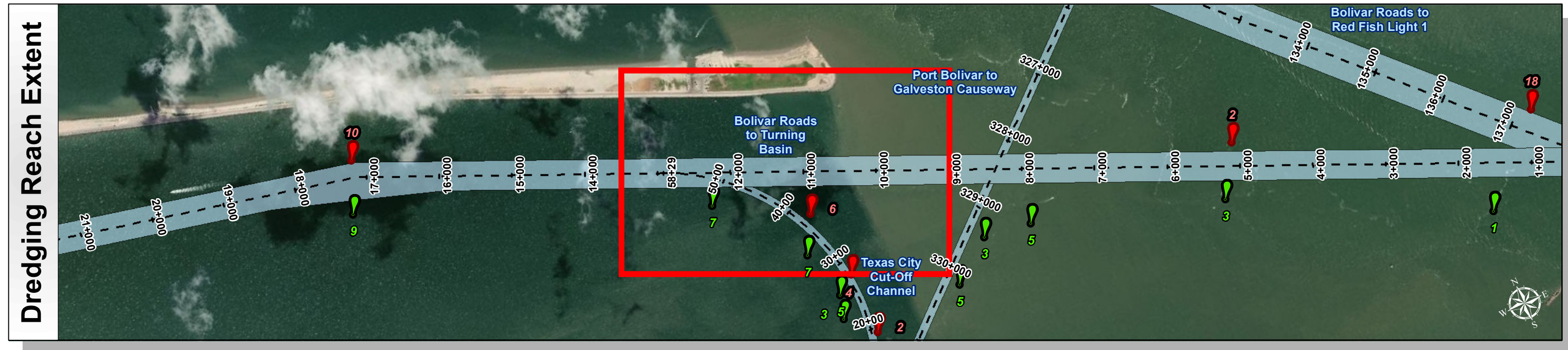
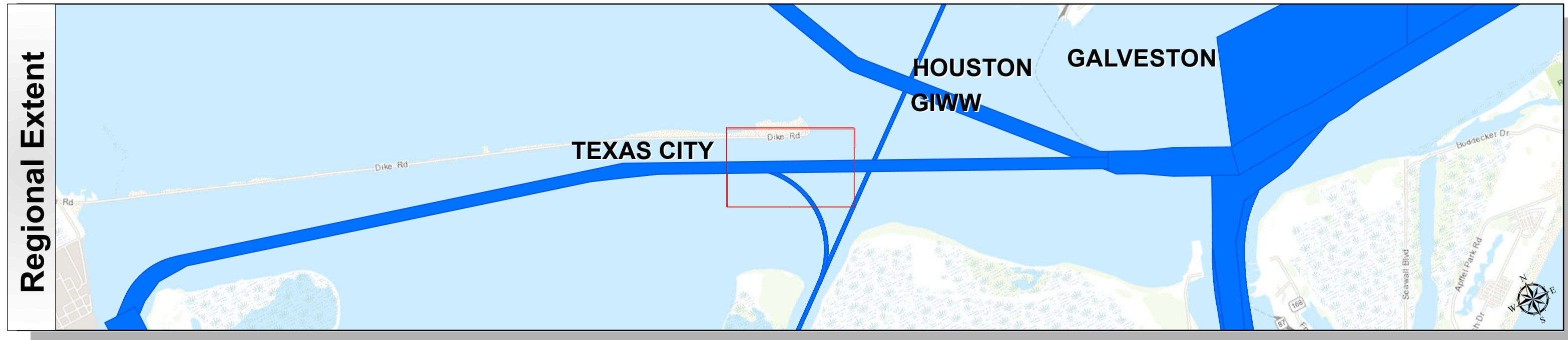
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 0+000 to 36+200.7
TEXAS CITY
TEXAS CITY, TEXAS

Texas City Harbor Channel: Bolivar Roads to Turning Basin



U.S. Army Corps of Engineers
Galveston District



Channel Features

- Channel Toe
- Channel Center Line
- Channel Station Lines
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 30	30 - 35	35 - 40	40 - 42	42 - 44	44 - 46	46 - 48	48 - 50	< 50
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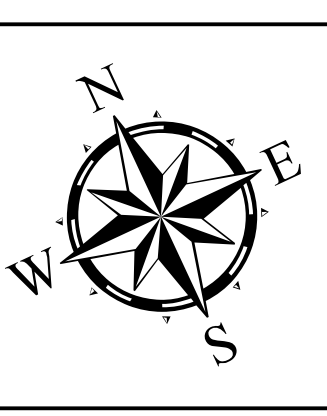
NOAA Bathymetry (DREDGING REACH EXTENT)

0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 50
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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic /Datum: North American 1983

Dredging Reach Extent

0 0.25 0.5 1 Miles

Hydrographic Survey Extent

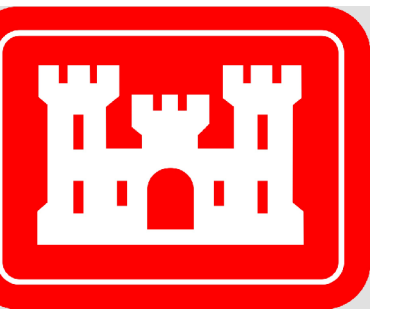
0 210 420 840 Feet

Survey Date(s): 23 September 2019	Authorized Depth: -46ft.
Page: 3 of 12	Side Slope Ratio: (Rise : Run)
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Mapped by: m3odmmg	Print Date: 9/25/2019
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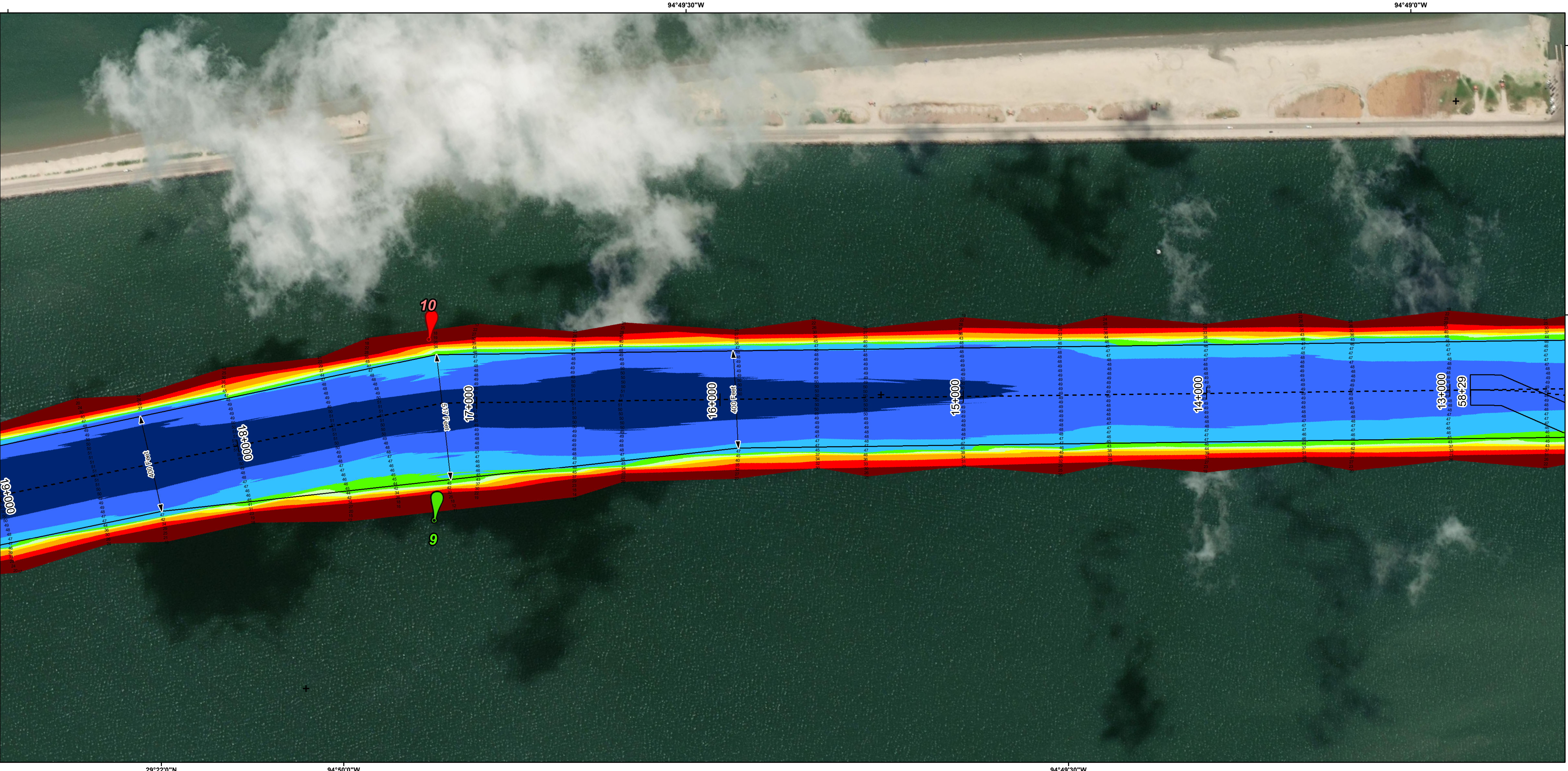
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 0+000 to 36+200.7
TEXAS CITY
TEXAS CITY, TEXAS

Texas City Harbor Channel: Bolivar Roads to Turning Basin



U.S. Army Corps of Engineers
Galveston District



Channel Features

- Channel Toe
- Channel Center Line
- Channel Station Lines
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 30	30 - 35	35 - 40	40 - 42	42 - 44	44 - 46	46 - 48	48 - 50	< 50
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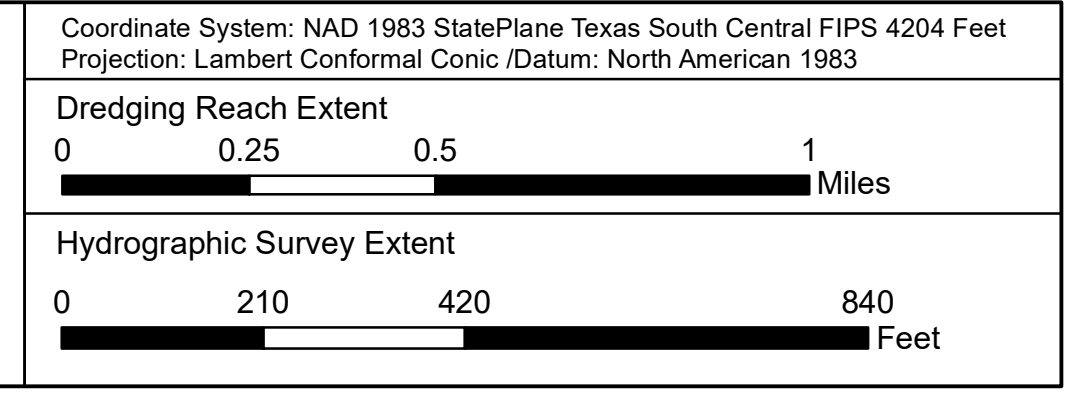
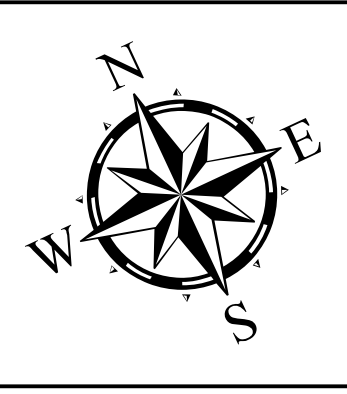
NOAA Bathymetry (DREDGING REACH EXTENT)

0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 50
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NOTES:

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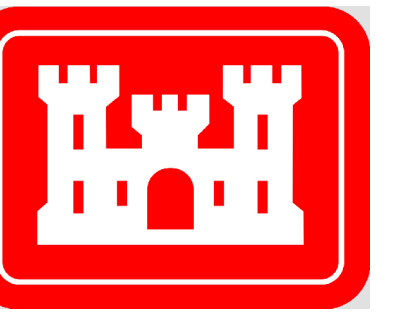


Survey Date(s): 23 September 2019	Authorized Depth: -46ft.
Page: 4 of 12	Side Slope Ratio: (Rise : Run)
Scale: 1:2,400	Additional Imagery: © DigitalGlobe Inc.
Mapped by: m3odmmg	Print Date: 9/25/2019
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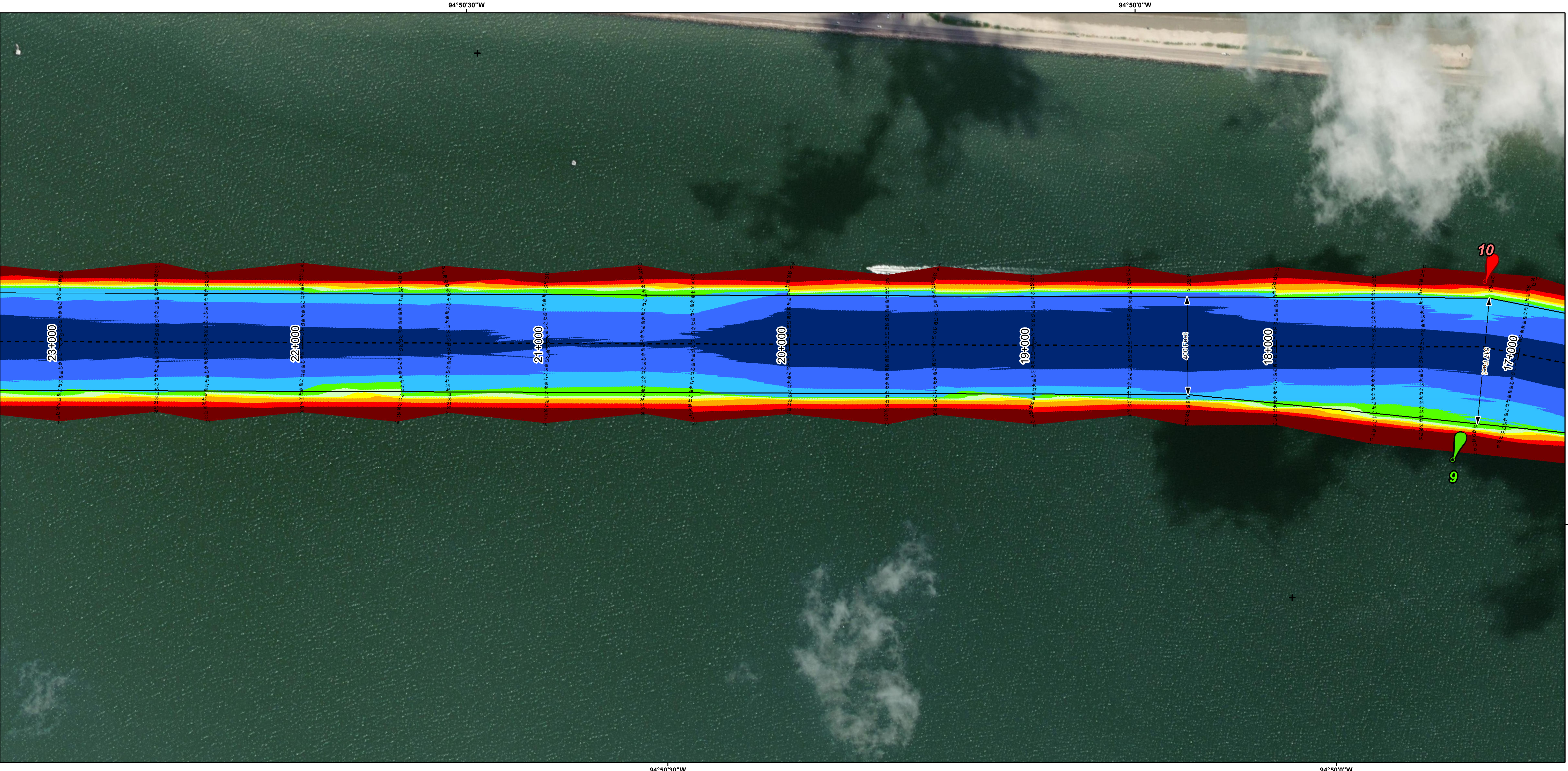
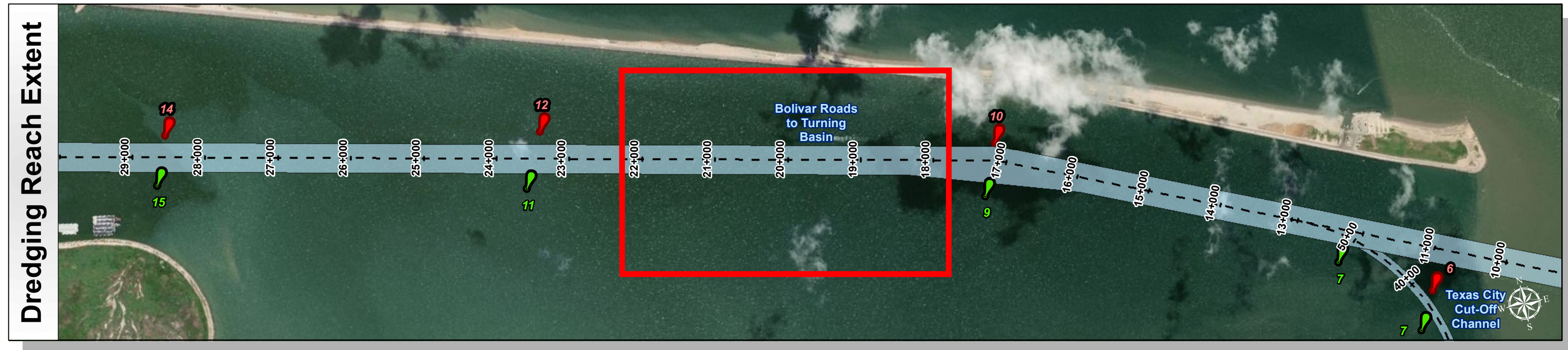
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 0+000 to 36+200.7
TEXAS CITY
TEXAS CITY, TEXAS

Texas City Harbor Channel: Bolivar Roads to Turning Basin



U.S. Army Corps of Engineers
Galveston District



Channel Features

- Channel Toe
- Channel Center Line
- Channel Station Lines
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 30	30 - 35	35 - 40	40 - 42	42 - 44	44 - 46	46 - 48	48 - 50	< 50
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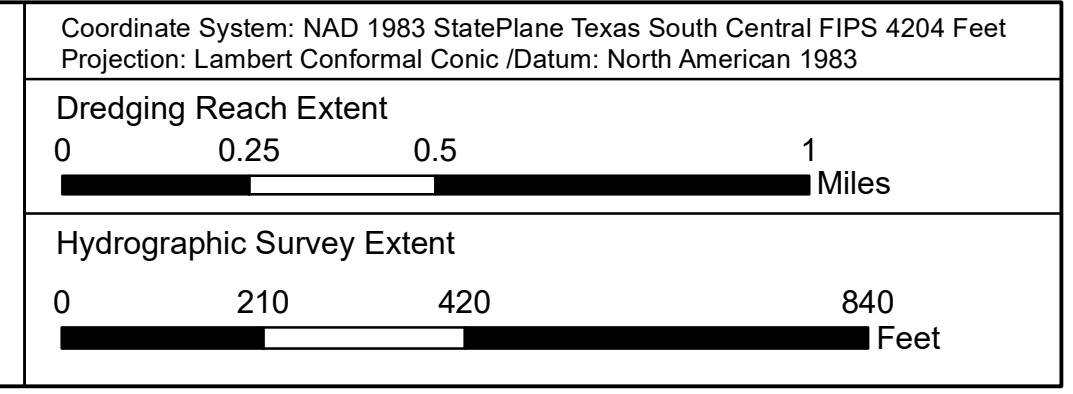
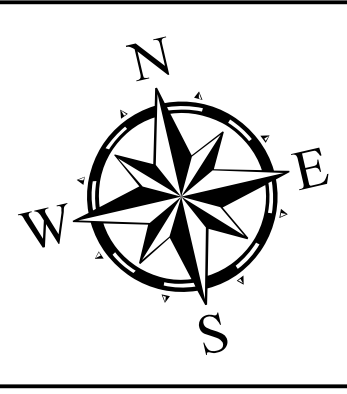
NOAA Bathymetry (DREDGING REACH EXTENT)

0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 50
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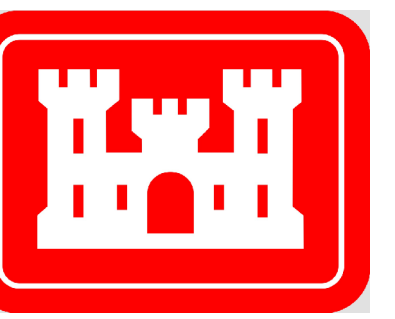


Survey Date(s): 23 September 2019	Authorized Depth: -46ft.
Page: 5 of 12	Side Slope Ratio: (Rise : Run)
Map:	Additional Imagery: © DigitalGlobe Inc.
Scale: 1:2,400	Print Date: 9/25/2019
Mapped by: m3odmmg	
Additional Info:	

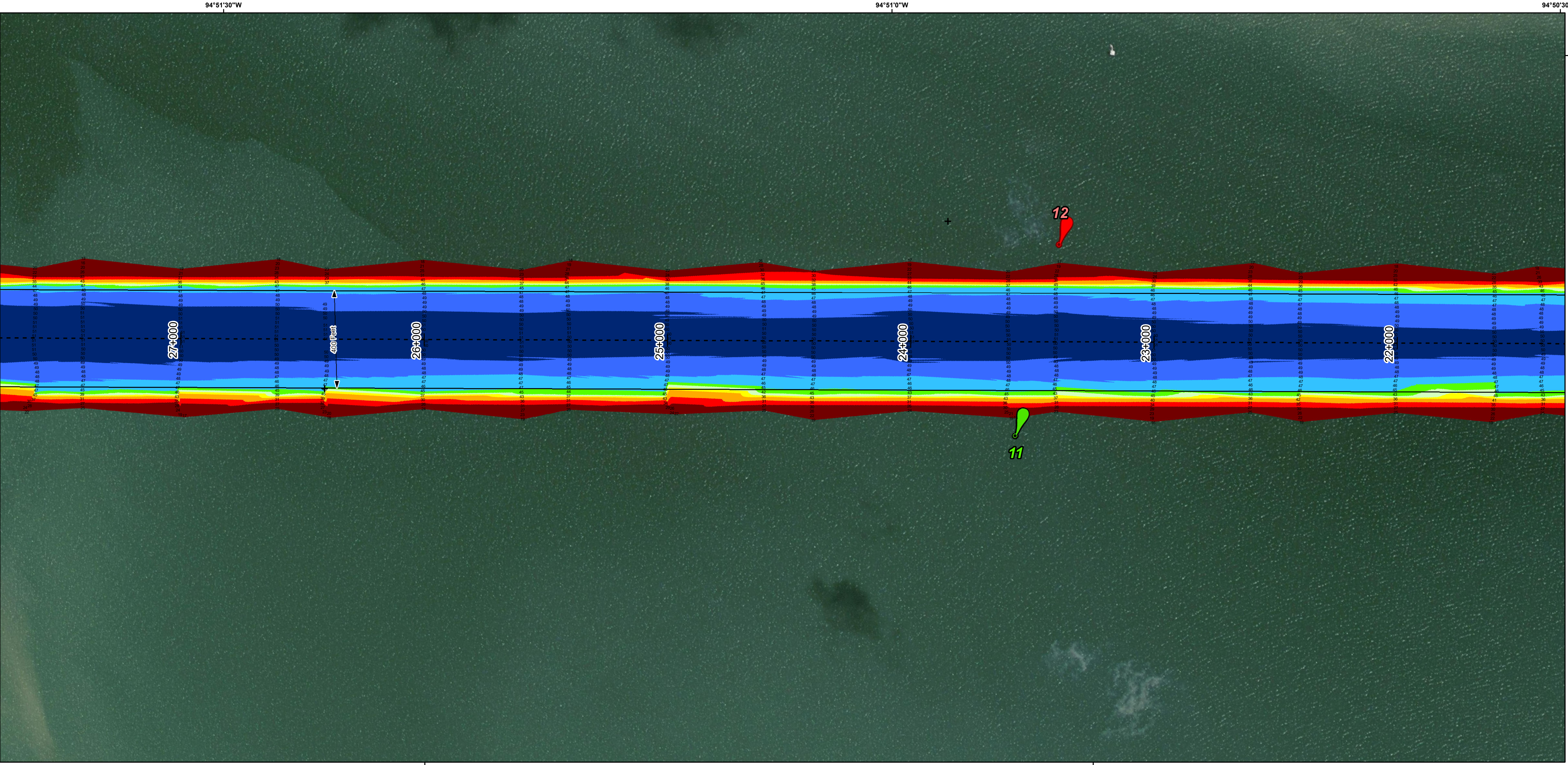
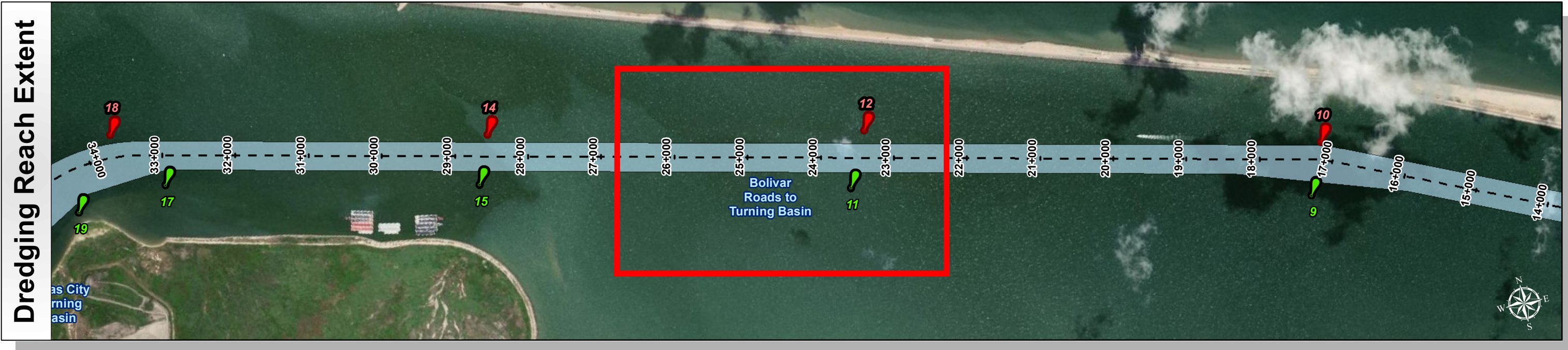
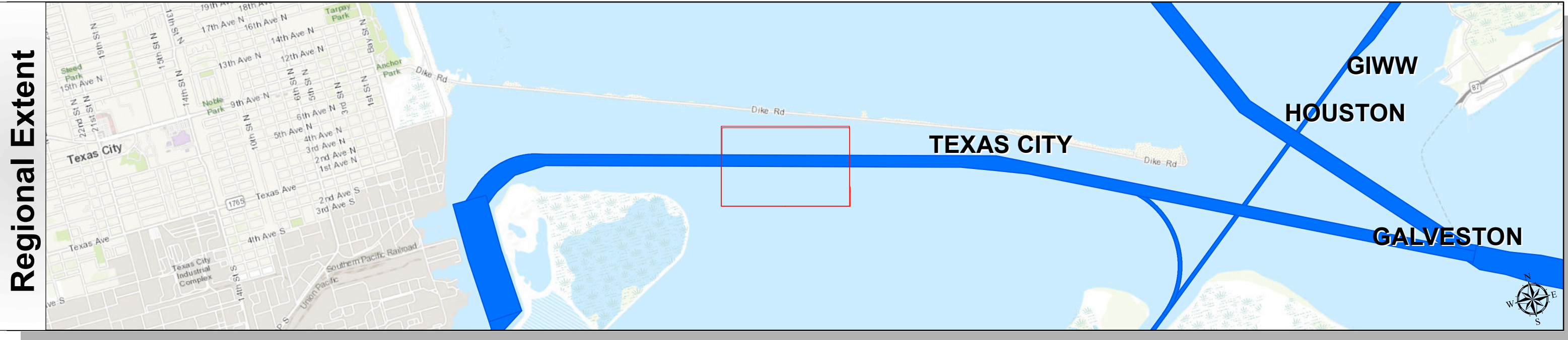
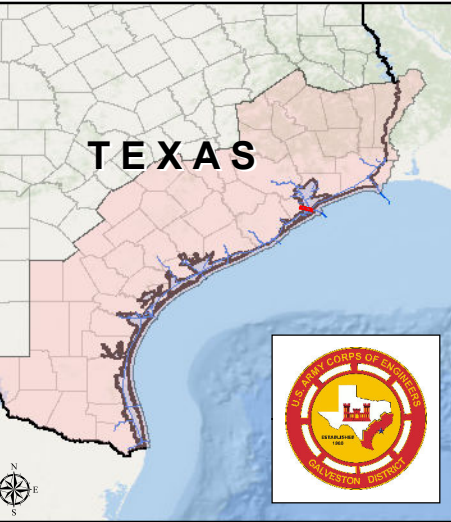
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U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 0+000 to 36+200.7
TEXAS CITY
TEXAS CITY, TEXAS

Texas City Harbor Channel: Bolivar Roads to Turning Basin



U.S. Army Corps of Engineers
Galveston District



Survey Date(s): 23 September 2019	Authorized Depth: -46ft.
Page: 6 of 12	Side Slope Ratio: (Rise : Run)
Map:	Additional Imagery: © DigitalGlobe Inc.
Scale: 1:2,400	Print Date: 9/25/2019
Mapped by: m3odmmg	
Additional Info:	

Channel Features

- Channel Toe
- Channel Center Line
- Channel Station Lines
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

0 - 30	30 - 35	35 - 40	40 - 42	42 - 44	44 - 46	46 - 48	48 - 50	< 50
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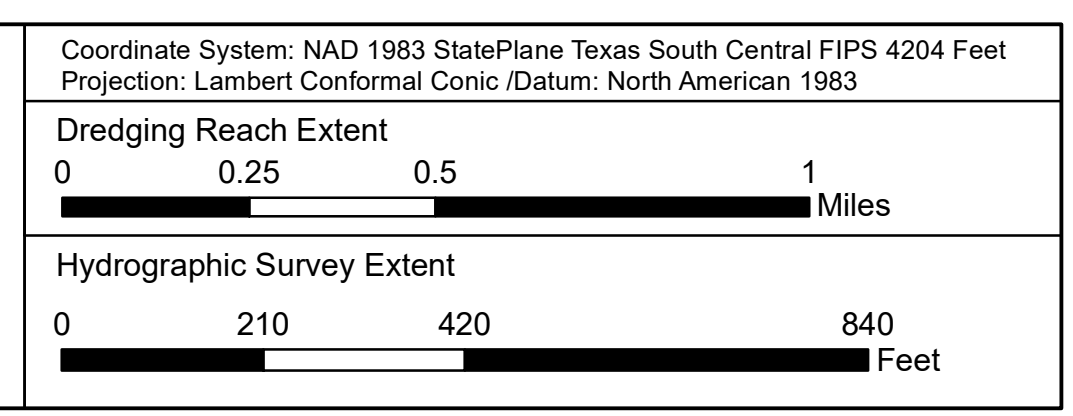
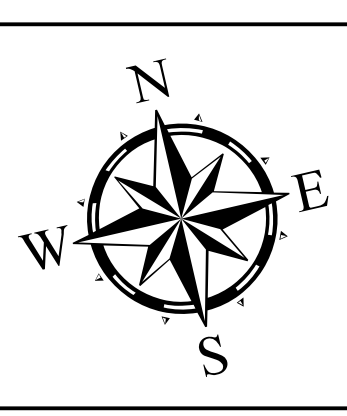
NOAA Bathymetry (DREDGING REACH EXTENT)

0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 50
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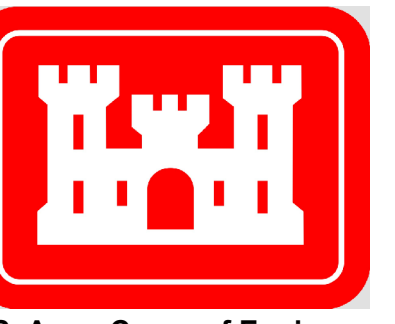
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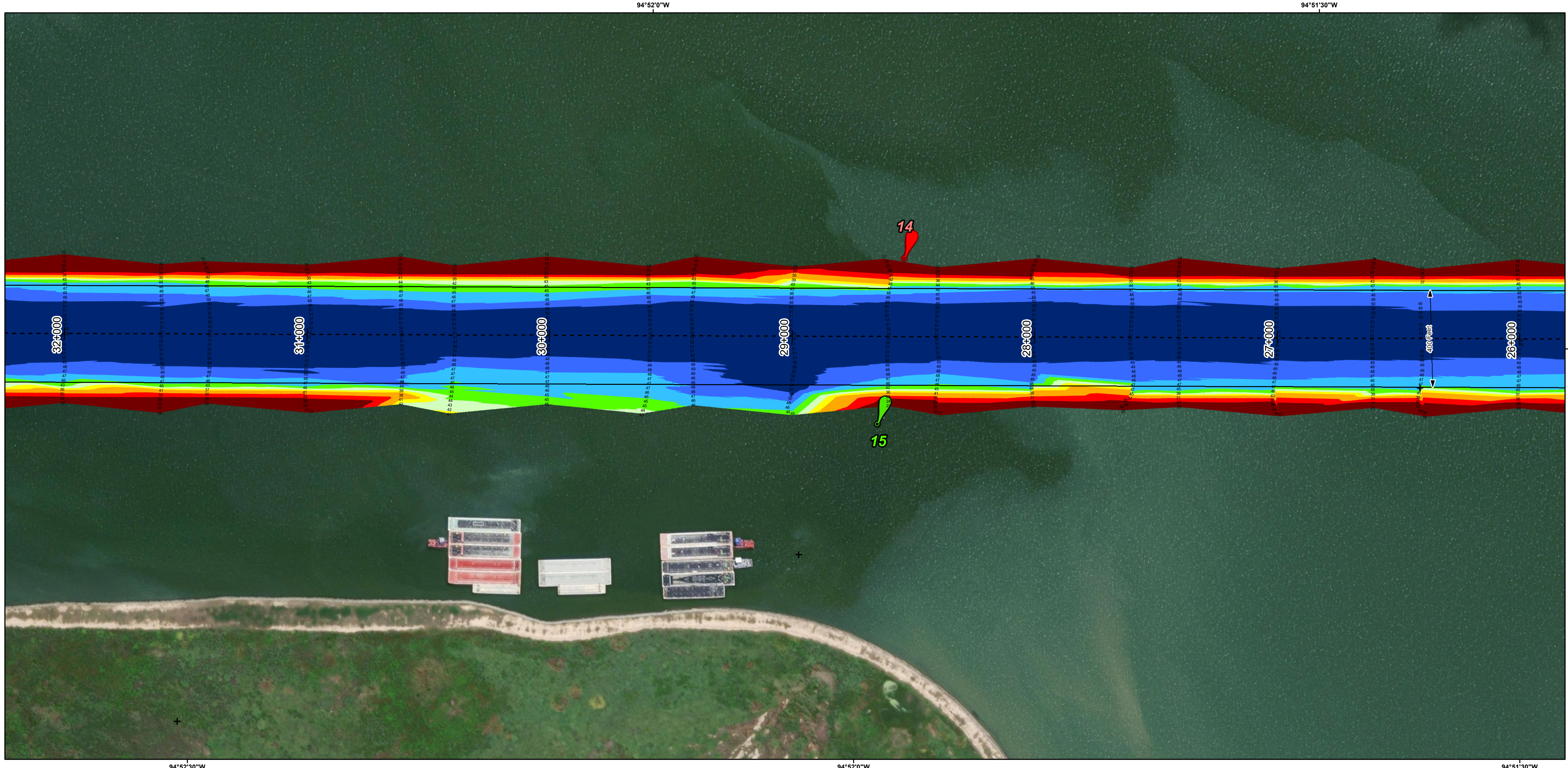
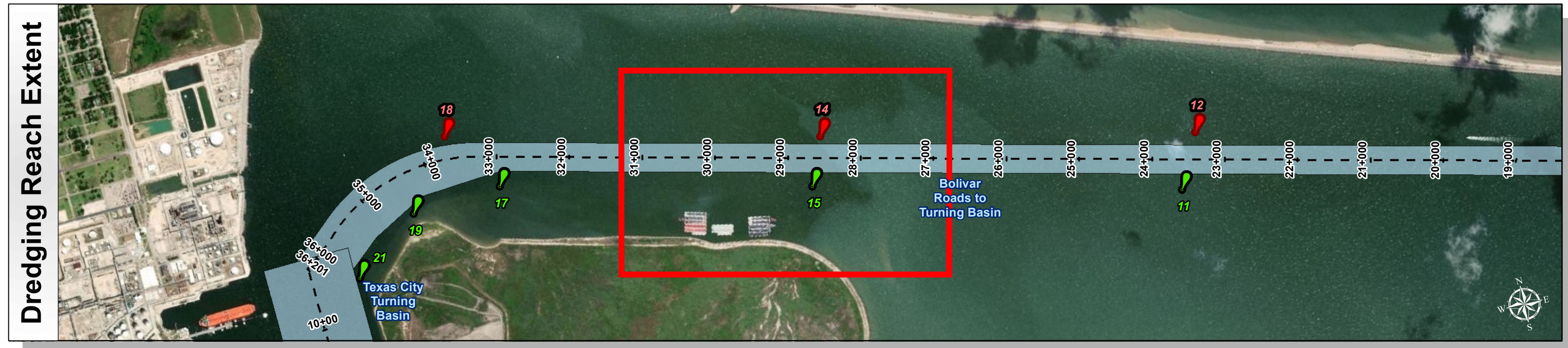
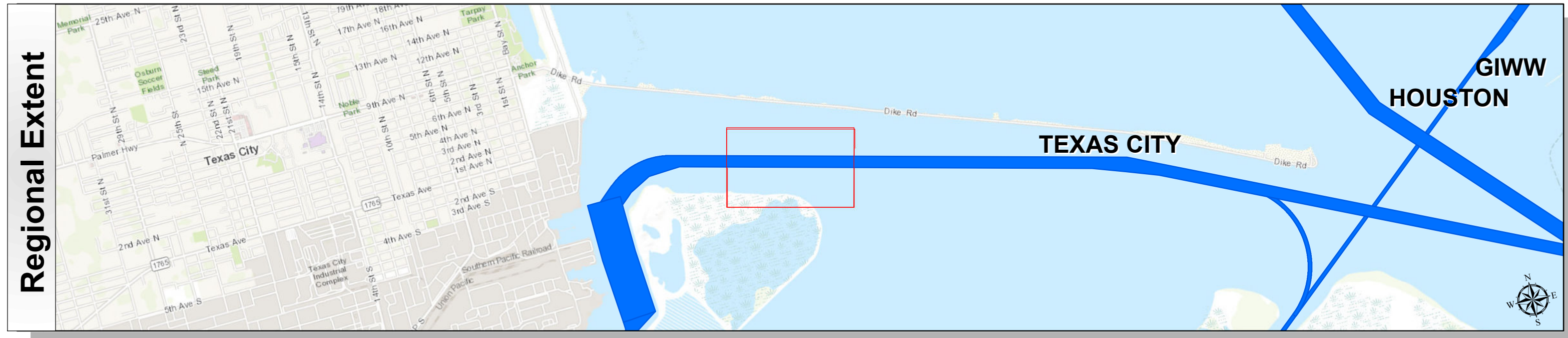
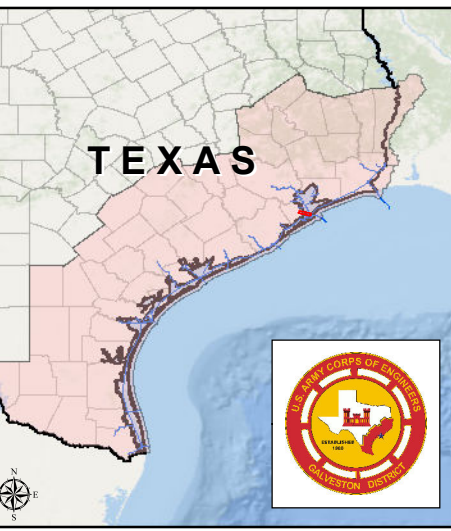
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 0+000 to 36+200.7
TEXAS CITY
TEXAS CITY, TEXAS

Texas City Harbor Channel: Bolivar Roads to Turning Basin



U.S. Army Corps of Engineers
Galveston District

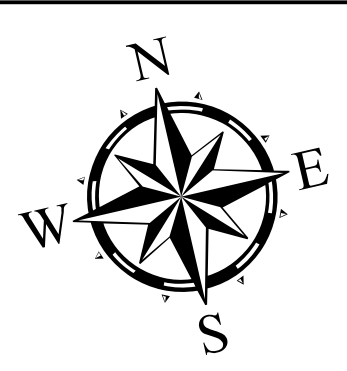


Channel Features	Aids to Navigation	MLLW
— Channel Toe	Green Side Aids	0 - 30, 30 - 35, 35 - 40, 40 - 42, 42 - 44, 44 - 46, 46 - 48, 48 - 50, < 50
- - - Channel Center Line	Red Side Aids	NOAA Bathymetry (DREDGING REACH EXTENT)
— Channel Station Lines	Lights	0 - 10, 10 - 15, 15 - 20, 20 - 25, 25 - 30, 30 - 50
↔ Channel Dimensions		

NOTES:

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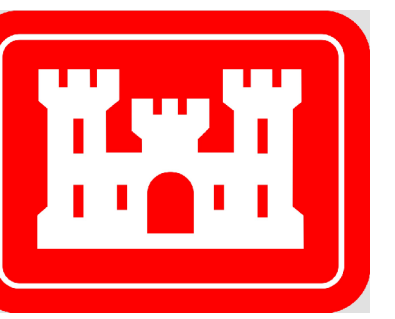
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet Projection: Lambert Conformal Conic /Datum: North American 1983	
Dredging Reach Extent	
Hydrographic Survey Extent	

Survey Date(s): 23 September 2019	Authorized Depth: -46ft.
Page: 7 of 12	Map: Side Slope Ratio: (Rise : Run)
Scale: 1:2,400	Additional Imagery: © DigitalGlobe Inc.
Mapped by: m3odmmg	Print Date: 9/25/2019
Additional Info:	

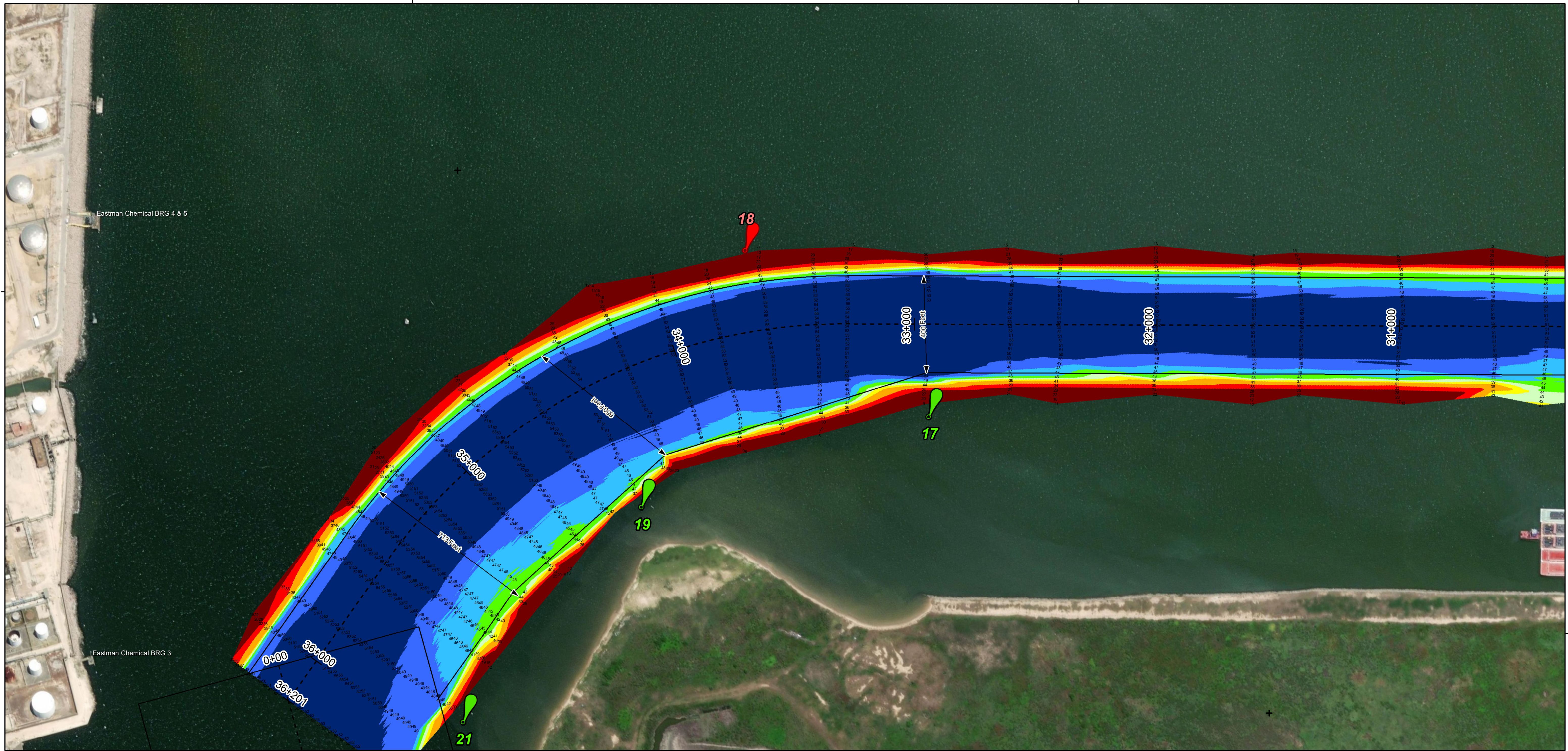
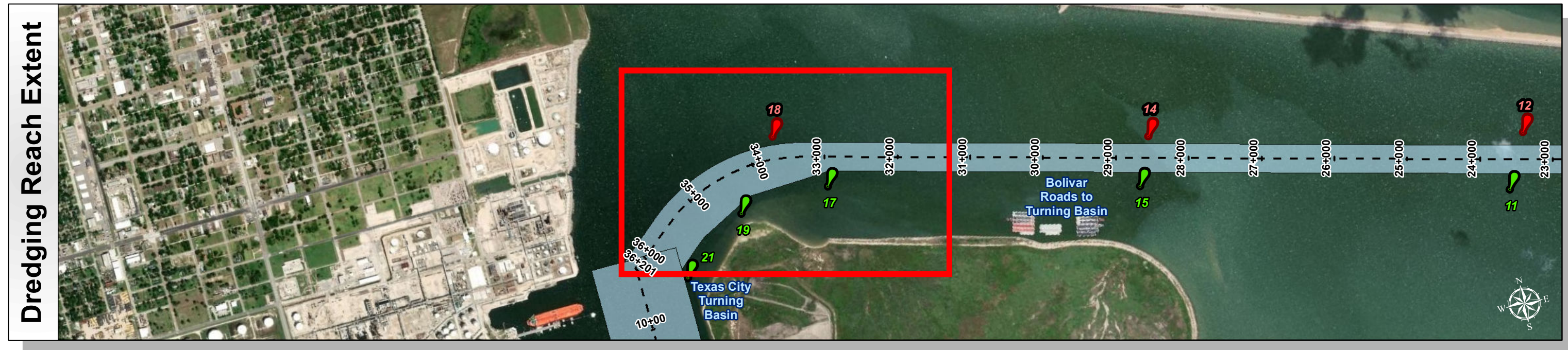
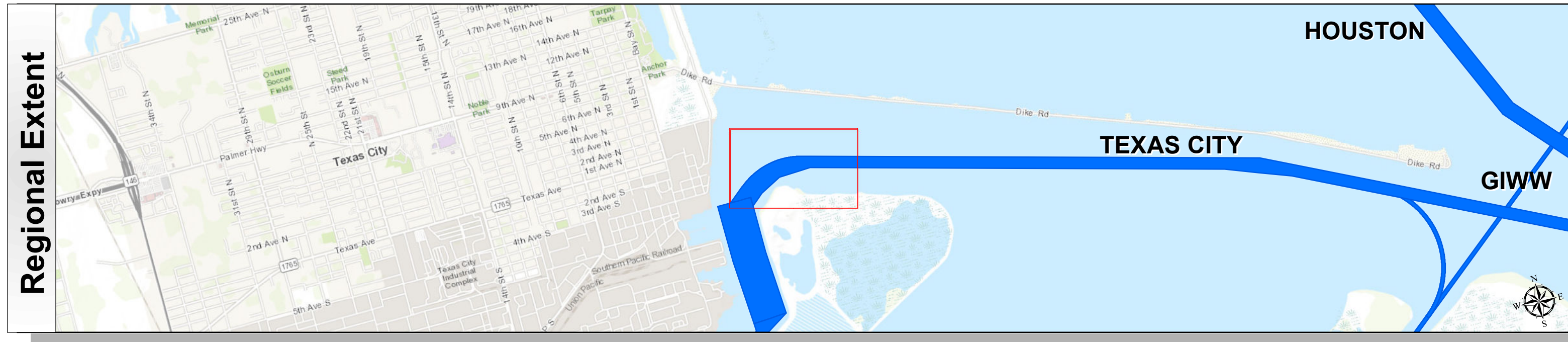
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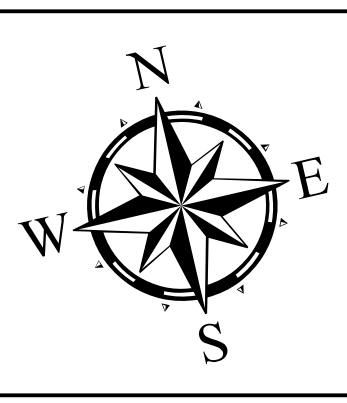


Channel Features	Aids to Navigation	MLLW															
<ul style="list-style-type: none"> Channel Toe Channel Center Line Channel Station Lines Channel Dimensions 	<ul style="list-style-type: none"> Green Side Aids Red Side Aids Lights 	<table border="1"> <tr> <td>0 - 30</td> <td>30 - 35</td> <td>35 - 40</td> <td>40 - 42</td> <td>42 - 44</td> <td>44 - 46</td> <td>46 - 48</td> <td>48 - 50</td> <td>< 50</td> </tr> </table> <p>NOAA Bathymetry (DREDGING REACH EXTENT)</p> <table border="1"> <tr> <td>0 - 10</td> <td>10 - 15</td> <td>15 - 20</td> <td>20 - 25</td> <td>25 - 30</td> <td>30 - 50</td> </tr> </table>	0 - 30	30 - 35	35 - 40	40 - 42	42 - 44	44 - 46	46 - 48	48 - 50	< 50	0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 50
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