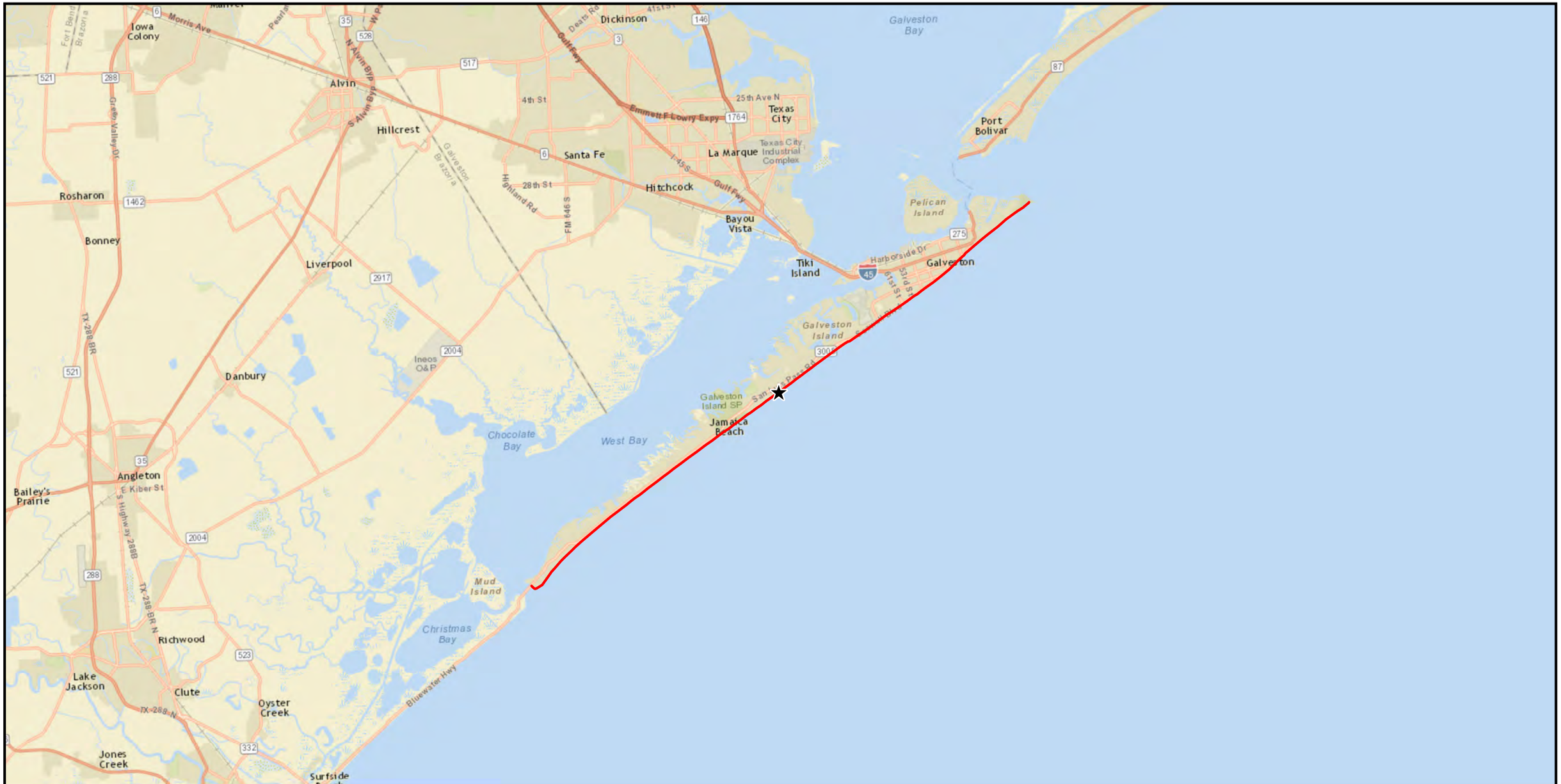

★ Project Center (Lat: 29° 12' 36" N, Long: 94° 55' 26" W)

Project Area

The north toe of dune, as shown hereon, is approximate and based on a combination of survey contour lines and depiction from aerial imagery. Atkins does not certify to the location of said line.
Aerial imagery shown for informational purposes only.

0 2 4 Miles

Datum: NAD 1983
Projection: State Plane
Texas South Central
Units: Feet
Aerials: Bing Maps Aerial

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
Page 1 of 58

Job No.: 100049360	Scale: 1 " = 4 miles
Prepared By: Atkins/WHIT6392	Date: Sep 27, 2016

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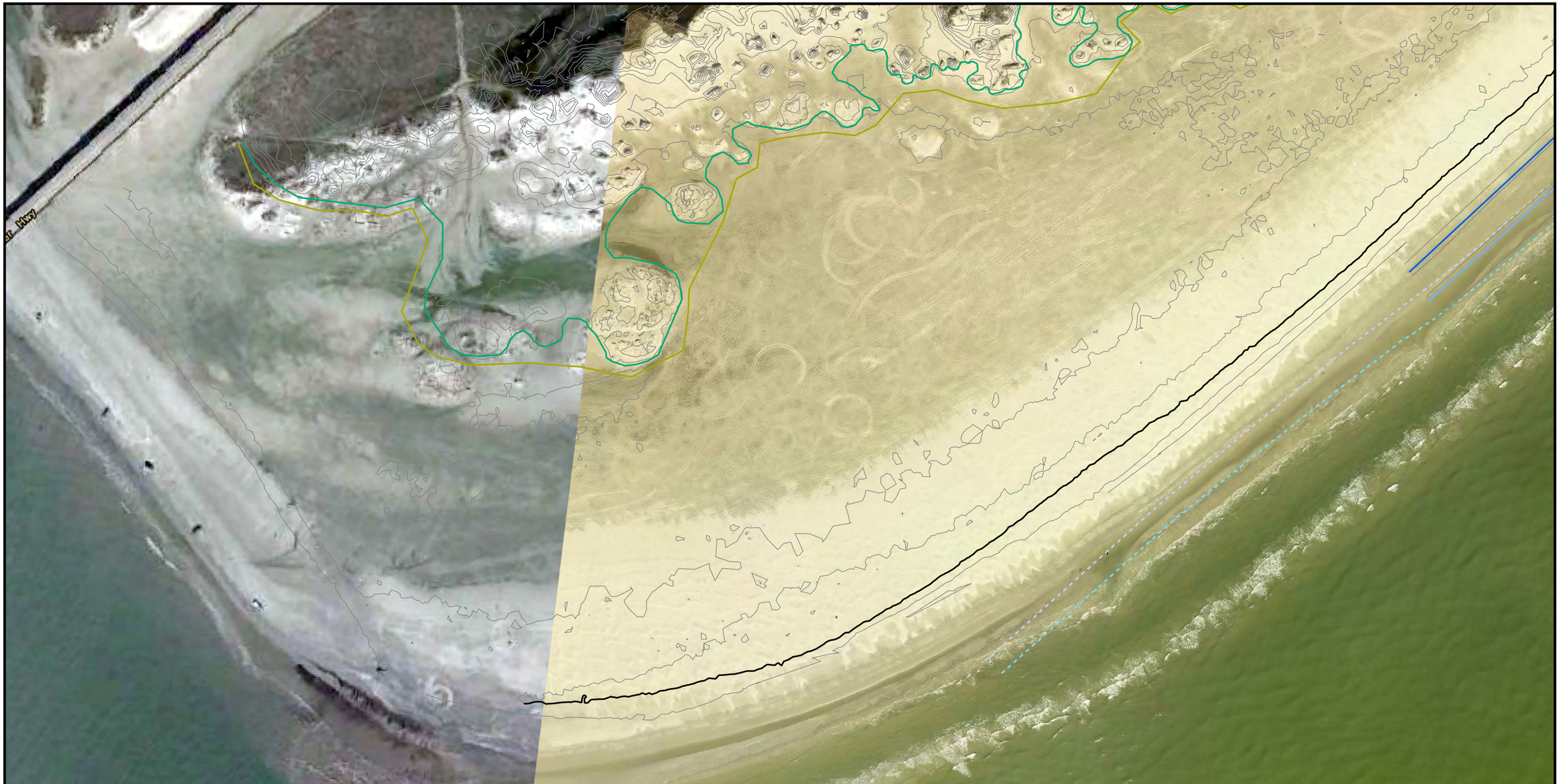

- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
- 2015 ENHANCED CONSTRUCTION ZONE
- 2016 4' CONTOUR
- 2016 APPROXIMATE LINE OF VEGETATION
- 2016 SOUTH TOE OF DUNE
- 2016 NORTH TOE OF DUNE
- 2016 MEAN HIGH WATER
- 2016 MEAN LOW WATER
- 2016 25' OFFSET NORTH TOE OF DUNE
- 2016 ENHANCED CONSTRUCTION ZONE
- 2016 CONTOURS

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Aerial imagery shown for informational purposes only.

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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
Page 2 of 58

Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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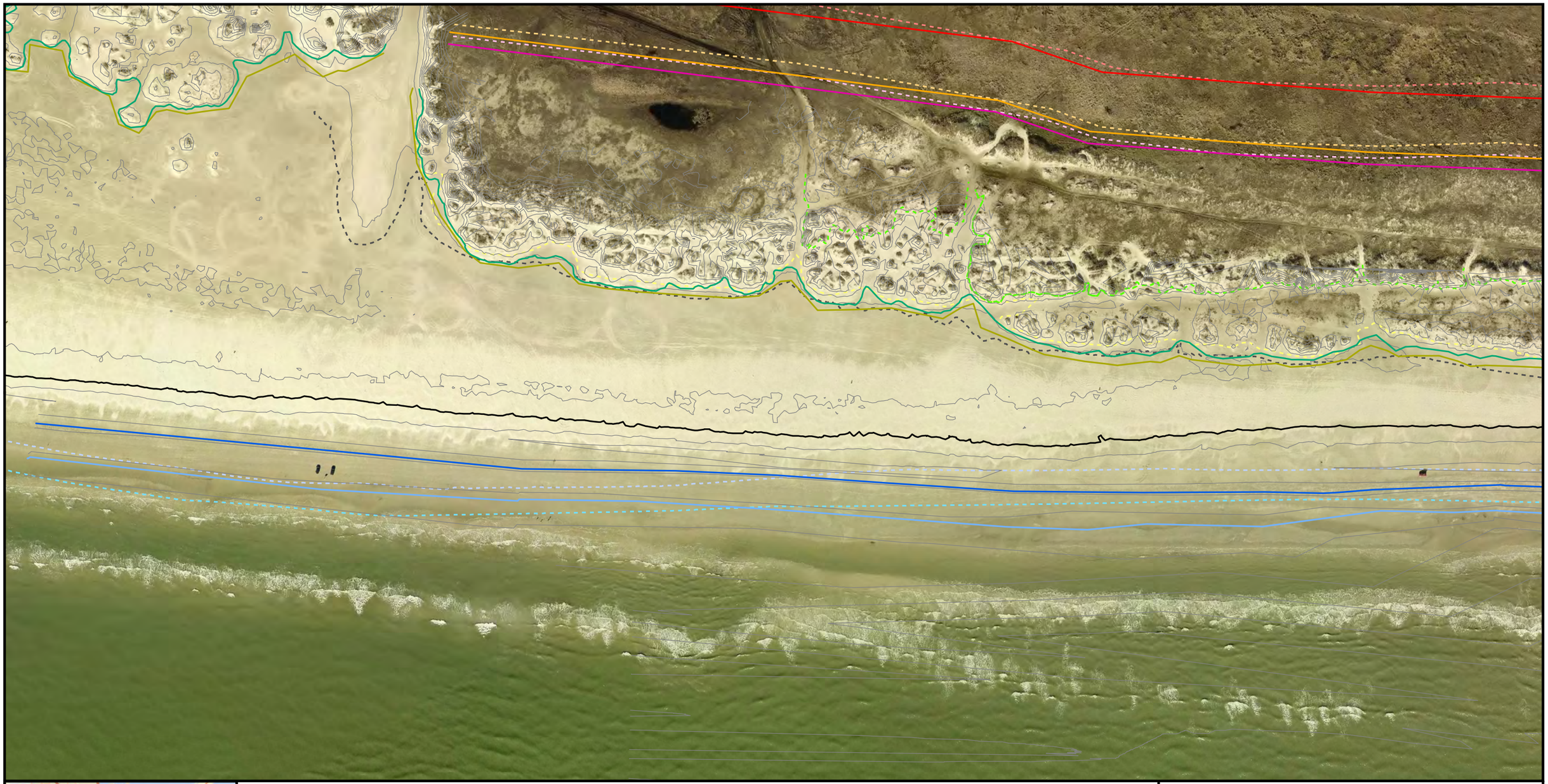
U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)



- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
- 2015 ENHANCED CONSTRUCTION ZONE
- 2016 4' CONTOUR
- 2016 APPROXIMATE LINE OF VEGETATION
- 2016 SOUTH TOE OF DUNE
- 2016 NORTH TOE OF DUNE
- 2016 MEAN HIGH WATER
- 2016 MEAN LOW WATER
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- 2016 CONTOURS

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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane
Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
Page 3 of 58

Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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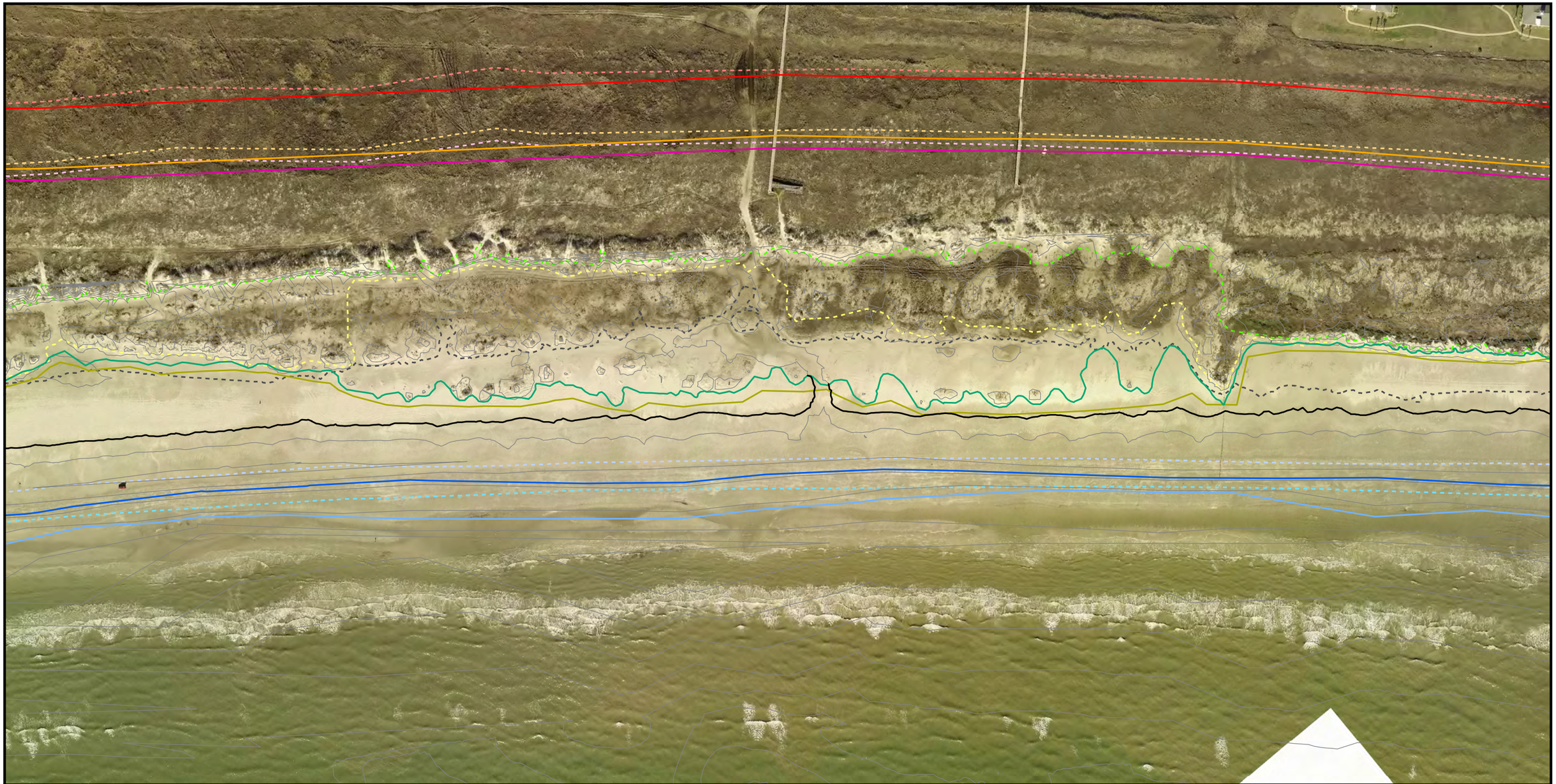
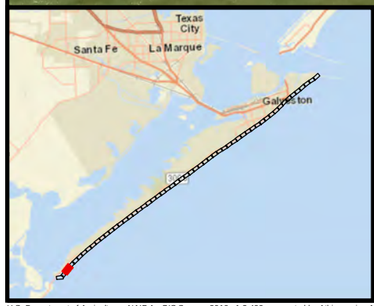
U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)





- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
- 2015 ENHANCED CONSTRUCTION ZONE
- 2016 4' CONTOUR
- 2016 APPROXIMATE LINE OF VEGETATION
- 2016 SOUTH TOE OF DUNE
- 2016 NORTH TOE OF DUNE
- 2016 MEAN HIGH WATER
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Aerial imagery shown for informational purposes only.

Data shown hereon is for informational purposes only and does not constitute a boundary survey

0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
Page 4 of 58

Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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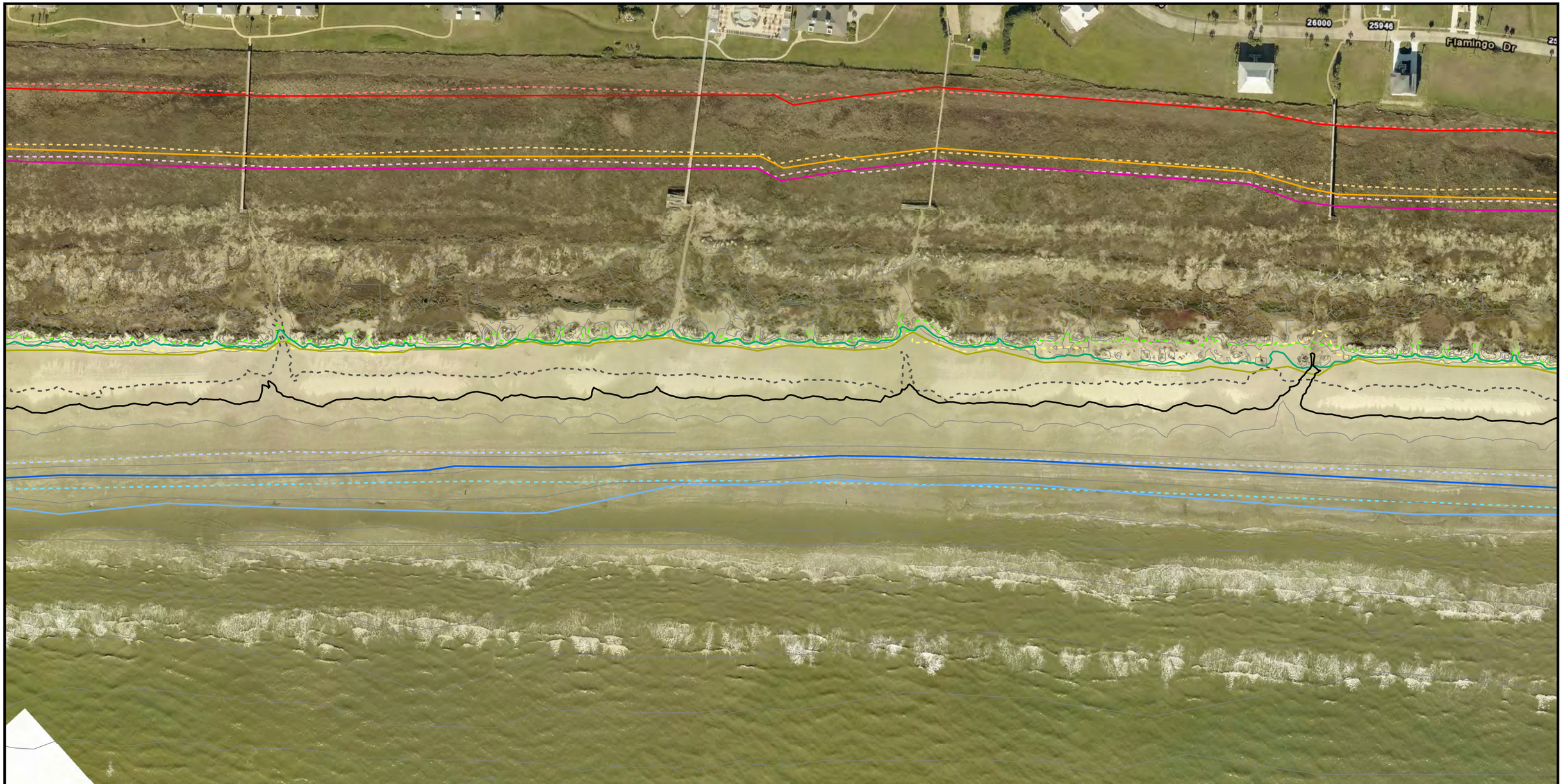
U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)



- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
- 2015 ENHANCED CONSTRUCTION ZONE
- 2016 4' CONTOUR
- 2016 APPROXIMATE LINE OF VEGETATION
- 2016 SOUTH TOE OF DUNE
- 2016 NORTH TOE OF DUNE
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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
Page 5 of 58

Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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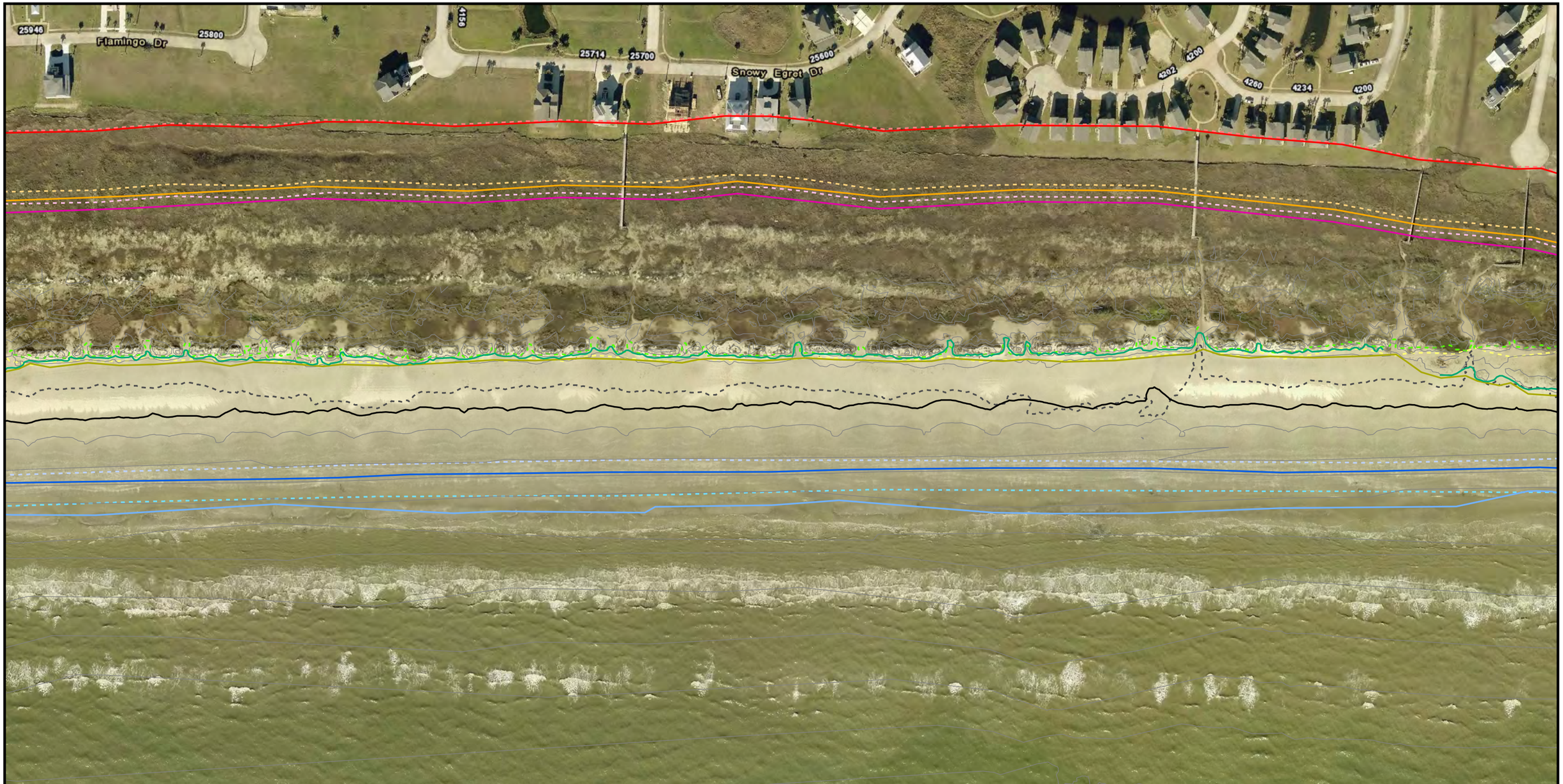
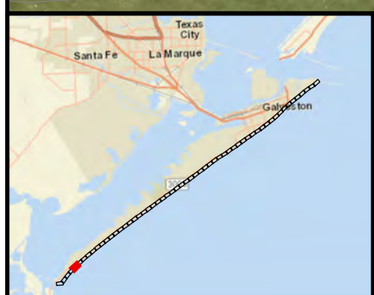
U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)





- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
- 2015 ENHANCED CONSTRUCTION ZONE
- 2016 4' CONTOUR
- 2016 APPROXIMATE LINE OF VEGETATION
- 2016 SOUTH TOE OF DUNE
- 2016 NORTH TOE OF DUNE
- 2016 MEAN HIGH WATER
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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
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Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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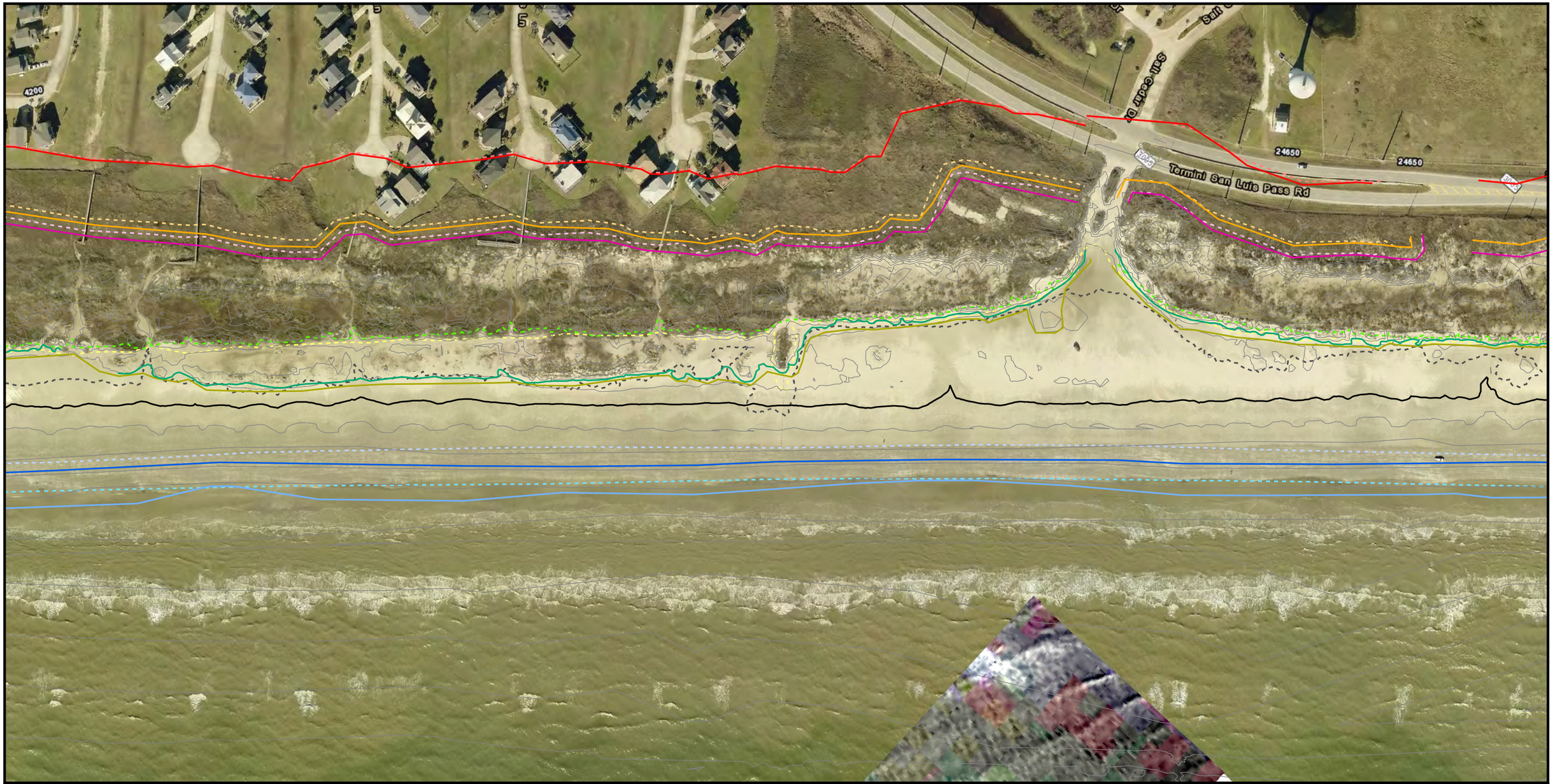
U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)



- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
- 2015 ENHANCED CONSTRUCTION ZONE
- 2016 4' CONTOUR
- 2016 APPROXIMATE LINE OF VEGETATION
- 2016 SOUTH TOE OF DUNE
- 2016 NORTH TOE OF DUNE
- 2016 MEAN HIGH WATER
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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
Page 7 of 58

Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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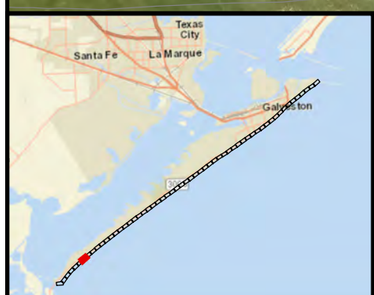
U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)



- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
- 2015 ENHANCED CONSTRUCTION ZONE
- 2016 4' CONTOUR
- 2016 APPROXIMATE LINE OF VEGETATION
- 2016 SOUTH TOE OF DUNE
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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane
Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
Page 8 of 58

Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)

- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
- 2015 ENHANCED CONSTRUCTION ZONE
- 2016 4' CONTOUR
- 2016 APPROXIMATE LINE OF VEGETATION
- 2016 SOUTH TOE OF DUNE
- 2016 NORTH TOE OF DUNE
- 2016 MEAN HIGH WATER
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- 2016 CONTOURS

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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
Page 9 of 58

Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)

- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
- 2015 ENHANCED CONSTRUCTION ZONE
- 2016 4' CONTOUR
- 2016 APPROXIMATE LINE OF VEGETATION
- 2016 SOUTH TOE OF DUNE
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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
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Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)

- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
- 2015 ENHANCED CONSTRUCTION ZONE
- 2016 4' CONTOUR
- 2016 APPROXIMATE LINE OF VEGETATION
- 2016 SOUTH TOE OF DUNE
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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
Page 11 of 58

Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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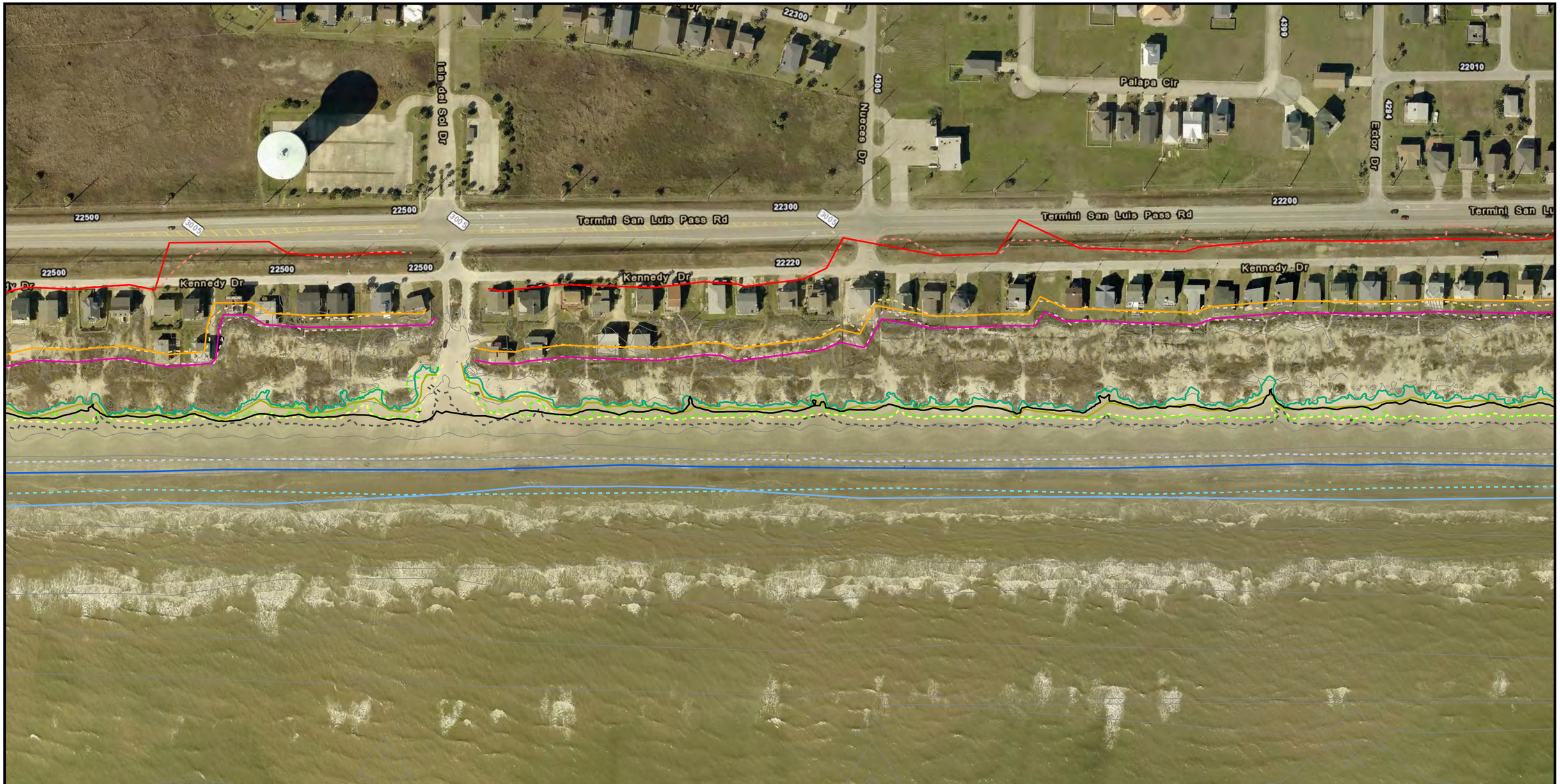
U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)



2015 4' CONTOUR
2015 APPROXIMATE LINE OF VEGETATION
2015 SOUTH TOE OF DUNE
2015 NORTH TOE OF DUNE
2015 MEAN HIGH WATER
2015 MEAN LOW WATER
2015 25' OFFSET NORTH TOE OF DUNE
2015 ENHANCED CONSTRUCTION ZONE
2016 4' CONTOUR
2016 APPROXIMATE LINE OF VEGETATION
2016 SOUTH TOE OF DUNE
2016 NORTH TOE OF DUNE
2016 MEAN HIGH WATER
2016 MEAN LOW WATER
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2016 ENHANCED CONSTRUCTION ZONE
2016 CONTOURS

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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
Page 12 of 58

Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)

- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
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- 2015 25' OFFSET NORTH TOE OF DUNE
- 2015 ENHANCED CONSTRUCTION ZONE
- 2016 4' CONTOUR
- 2016 APPROXIMATE LINE OF VEGETATION
- 2016 SOUTH TOE OF DUNE
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- 2016 MEAN HIGH WATER
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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane
Texas South Central
Units: Feet
Aerials: NAP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
Page 13 of 58

Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)

- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
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- 2016 SOUTH TOE OF DUNE
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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

ATKINS

2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
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Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
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- 2015 MEAN LOW WATER
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- 2016 SOUTH TOE OF DUNE
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Aerials: NAIP WMS 2016

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Job No.: 100049360	Scale: 1 " = 200 '
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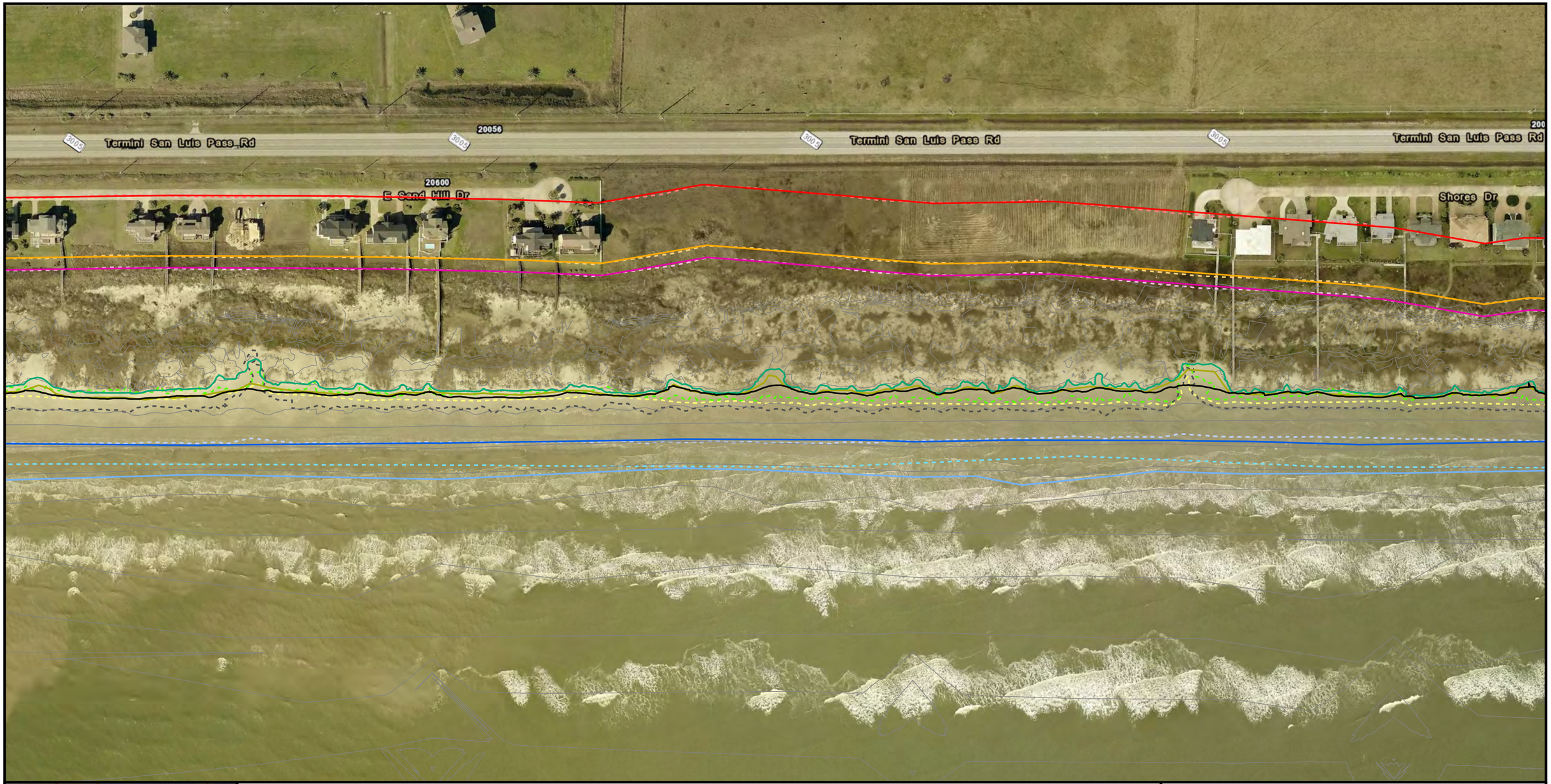

2015 4' CONTOUR
2015 APPROXIMATE LINE OF VEGETATION
2015 SOUTH TOE OF DUNE
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2015 MEAN LOW WATER
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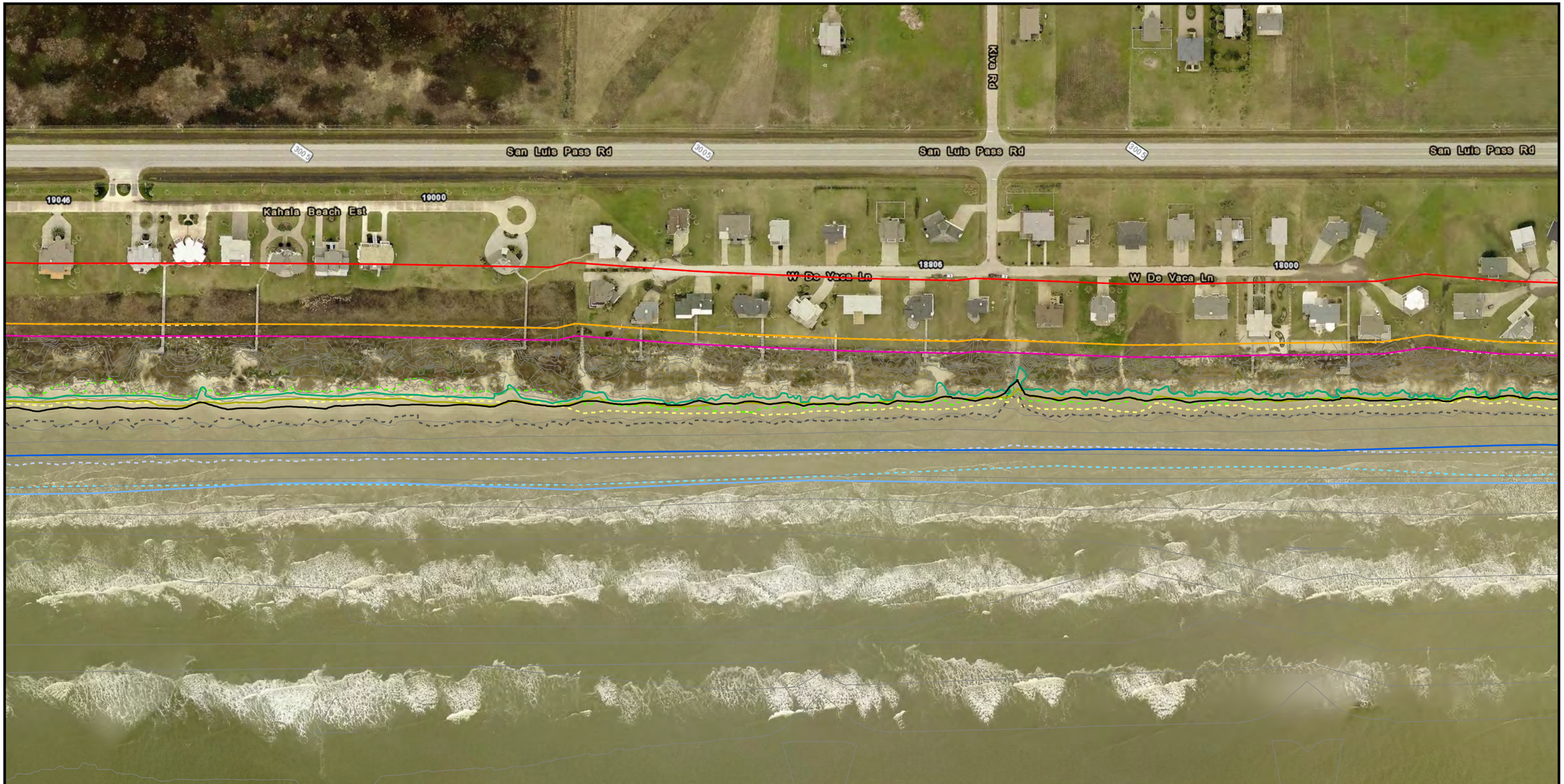

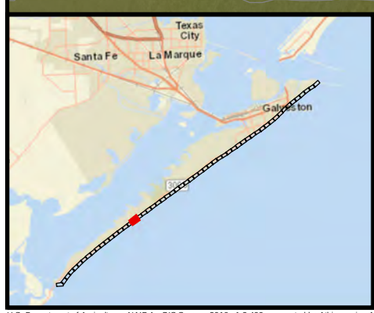

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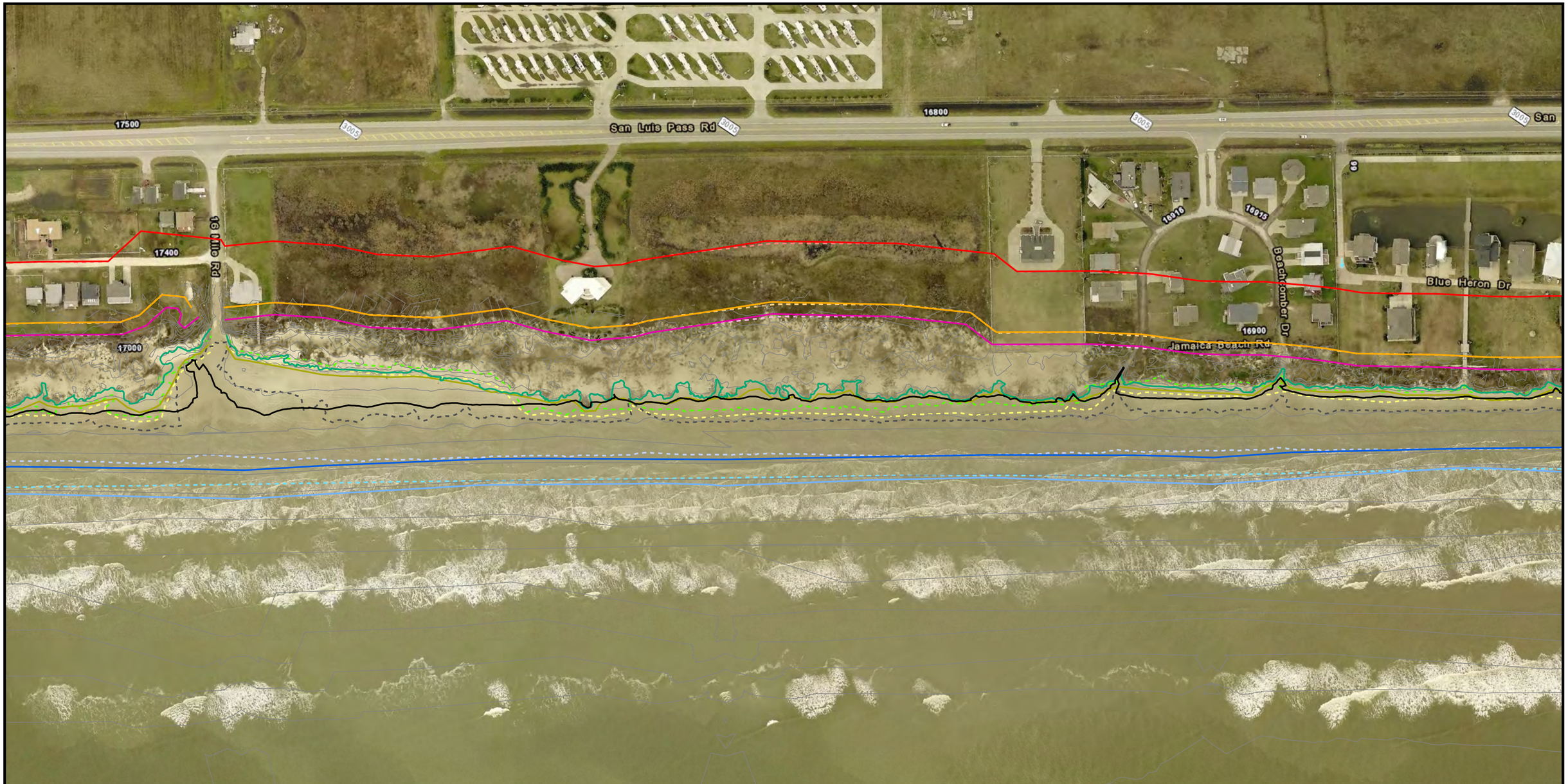

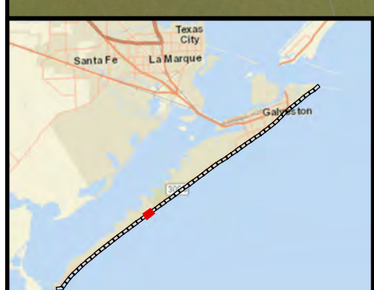

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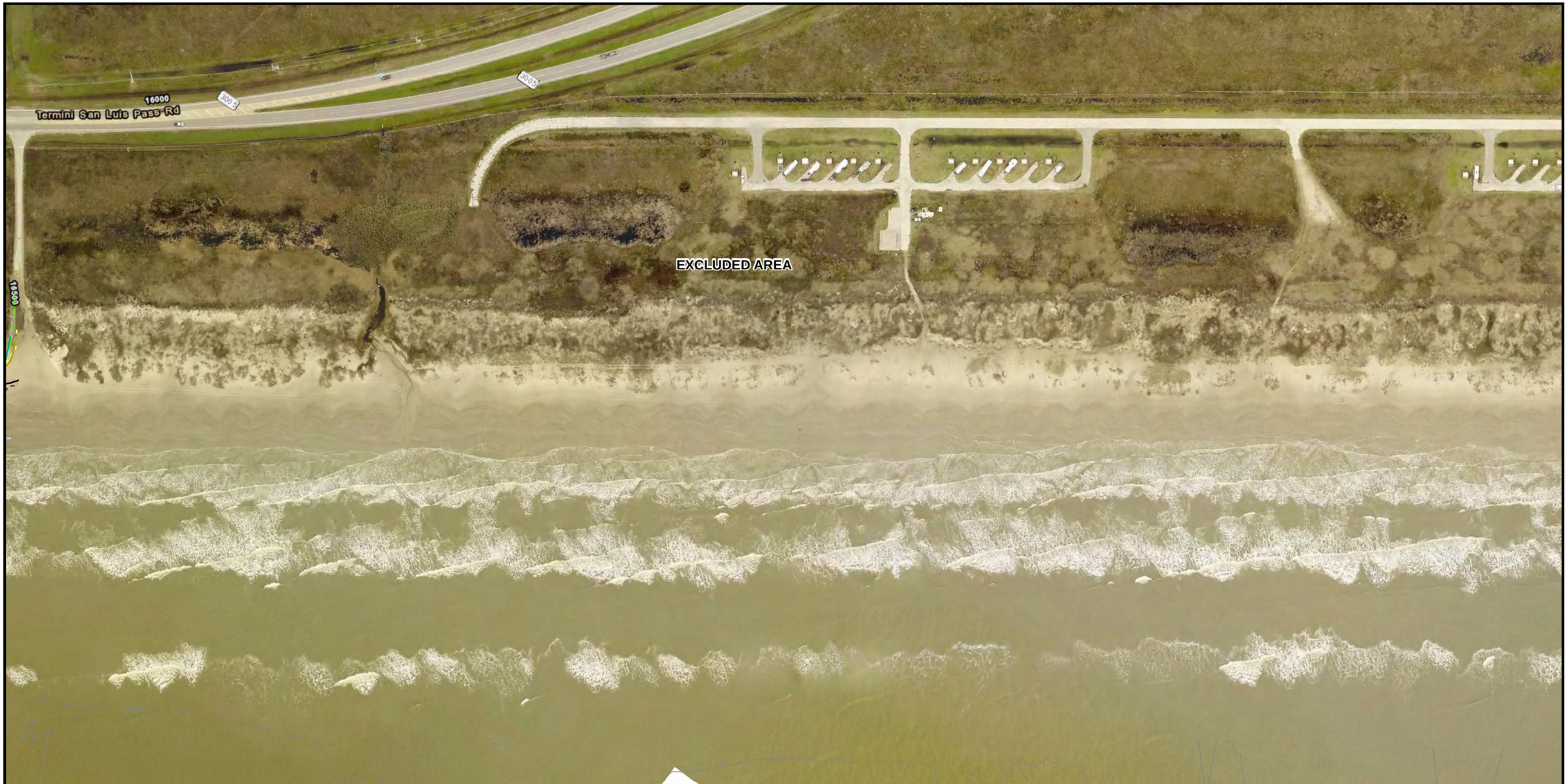

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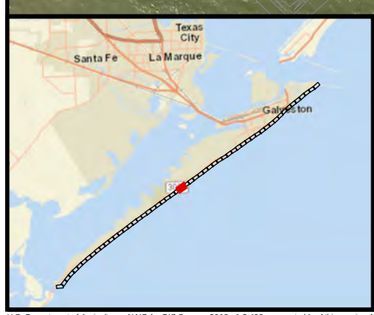

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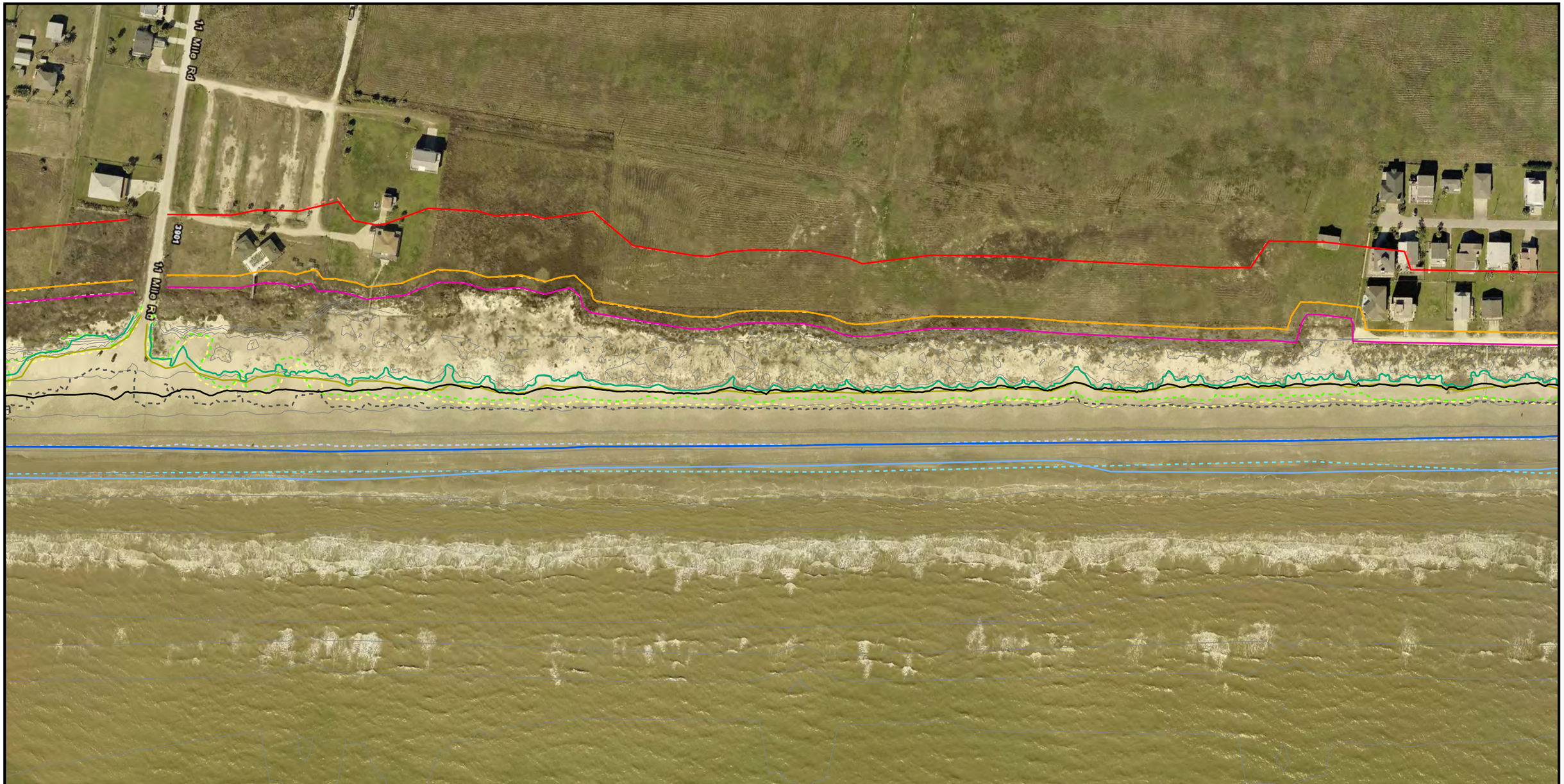

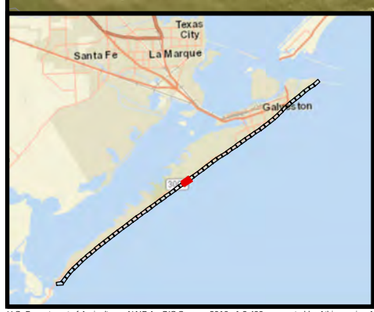

- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
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- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

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Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

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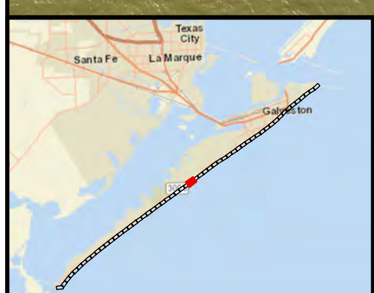

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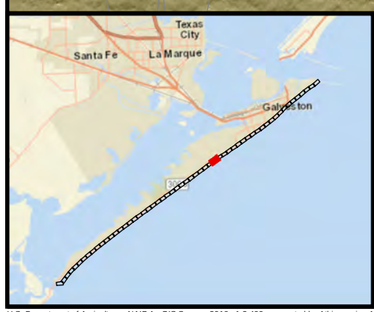

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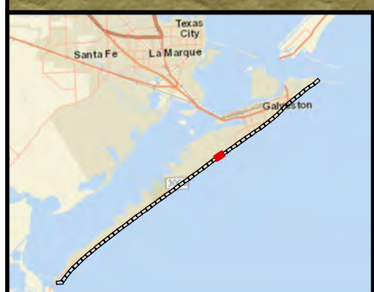

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City of Galveston

Galveston County, Texas
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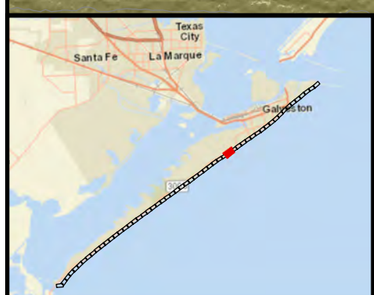

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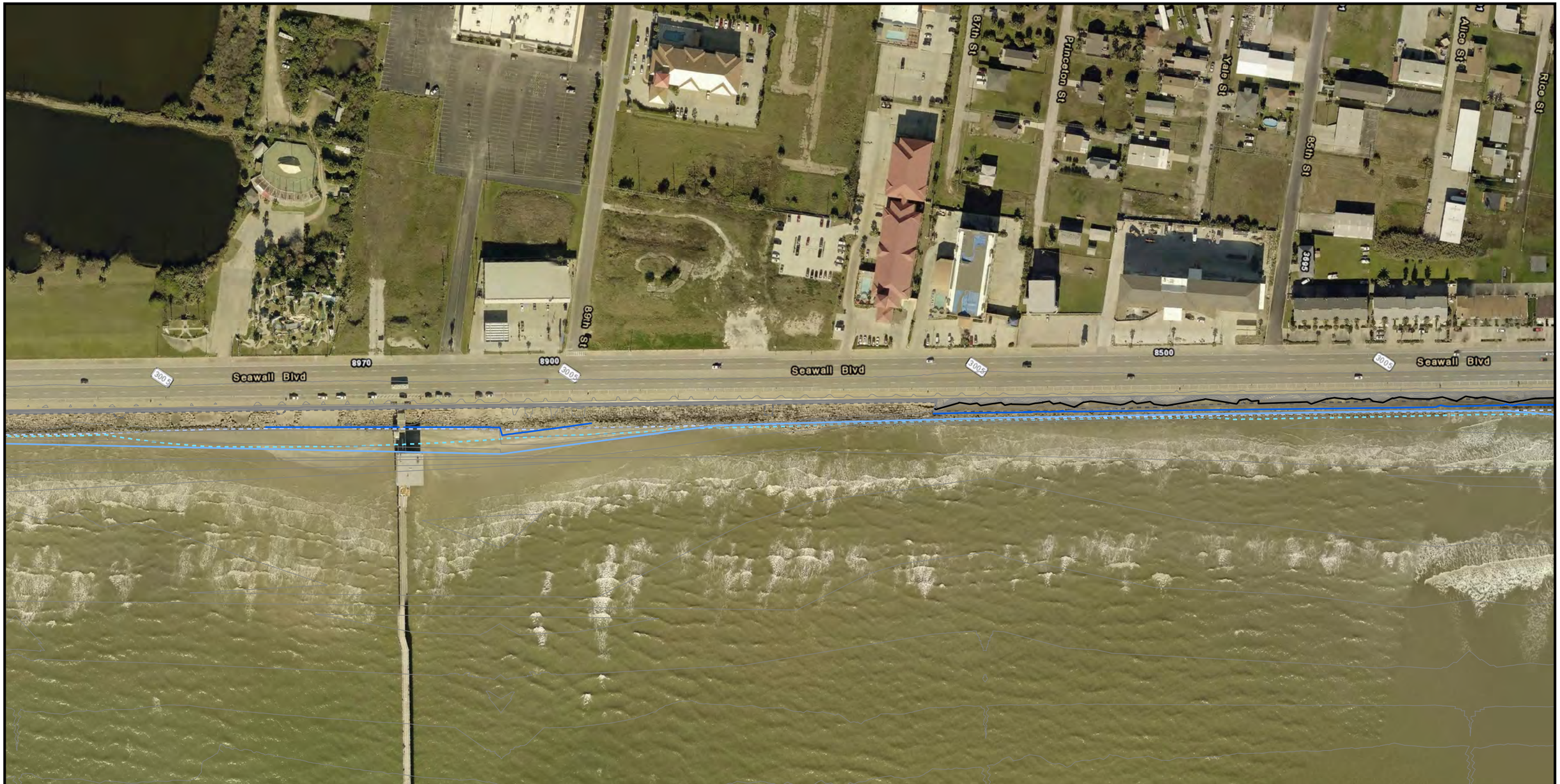

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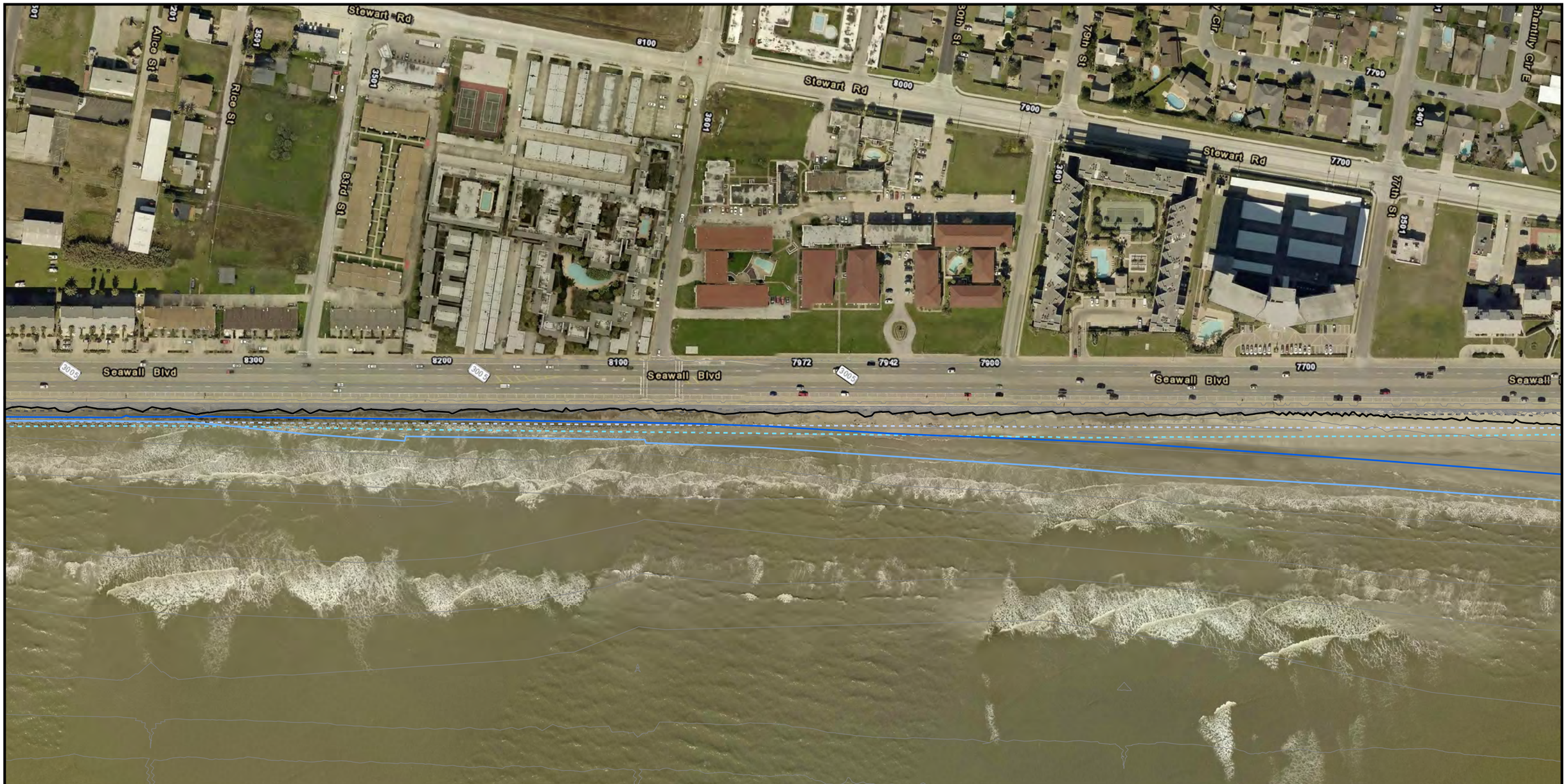

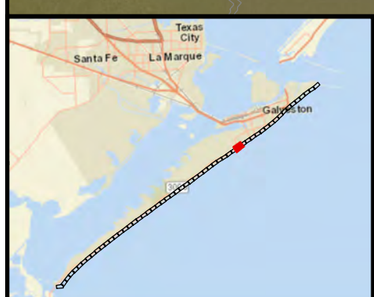

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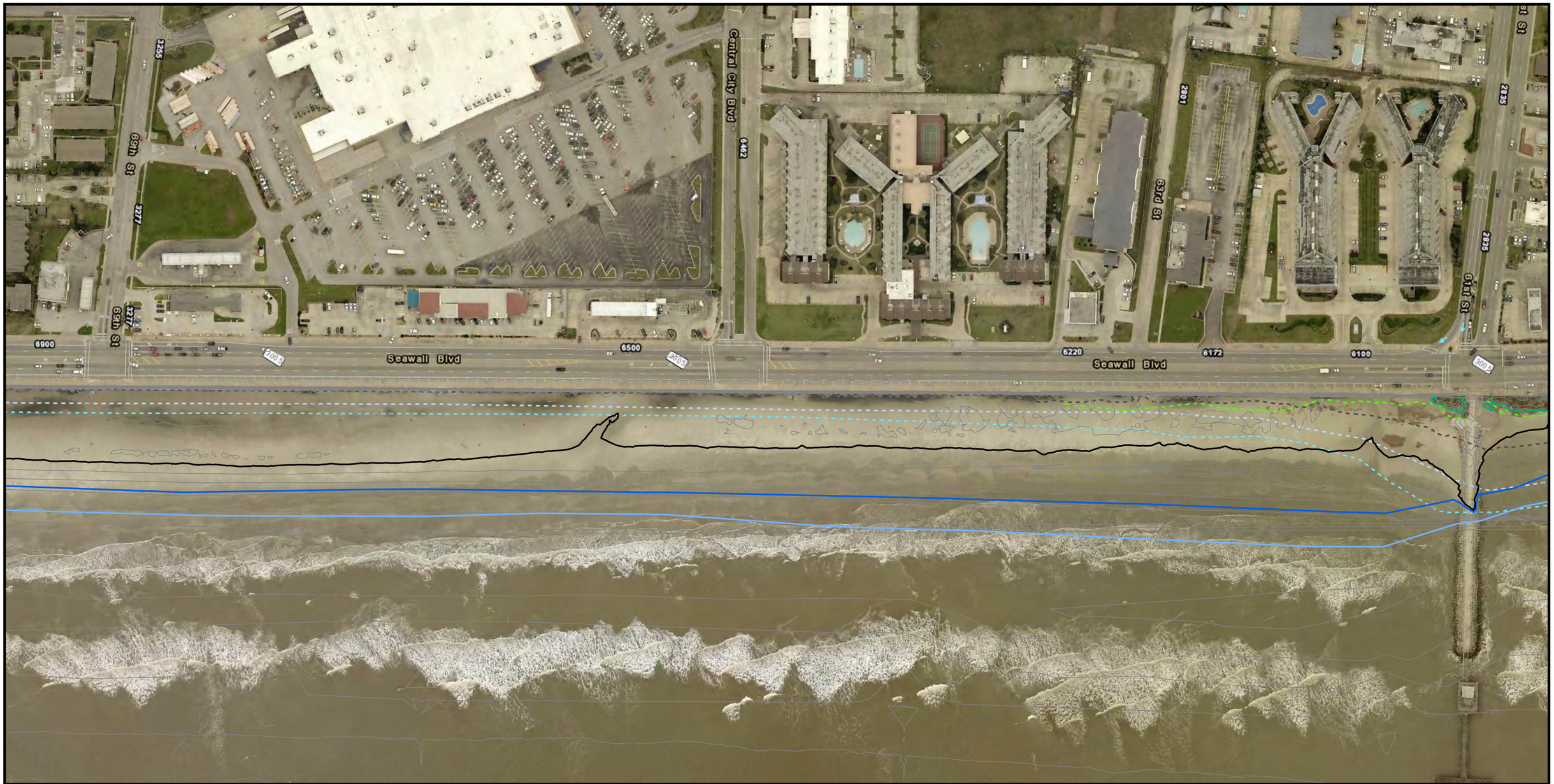

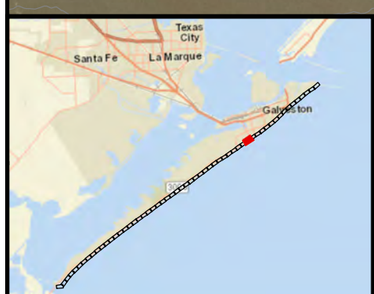

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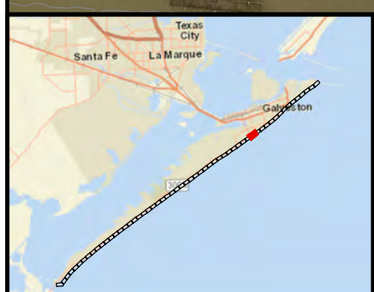

- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
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0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

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Job No.: 100049360	Scale: 1 " = 200 '
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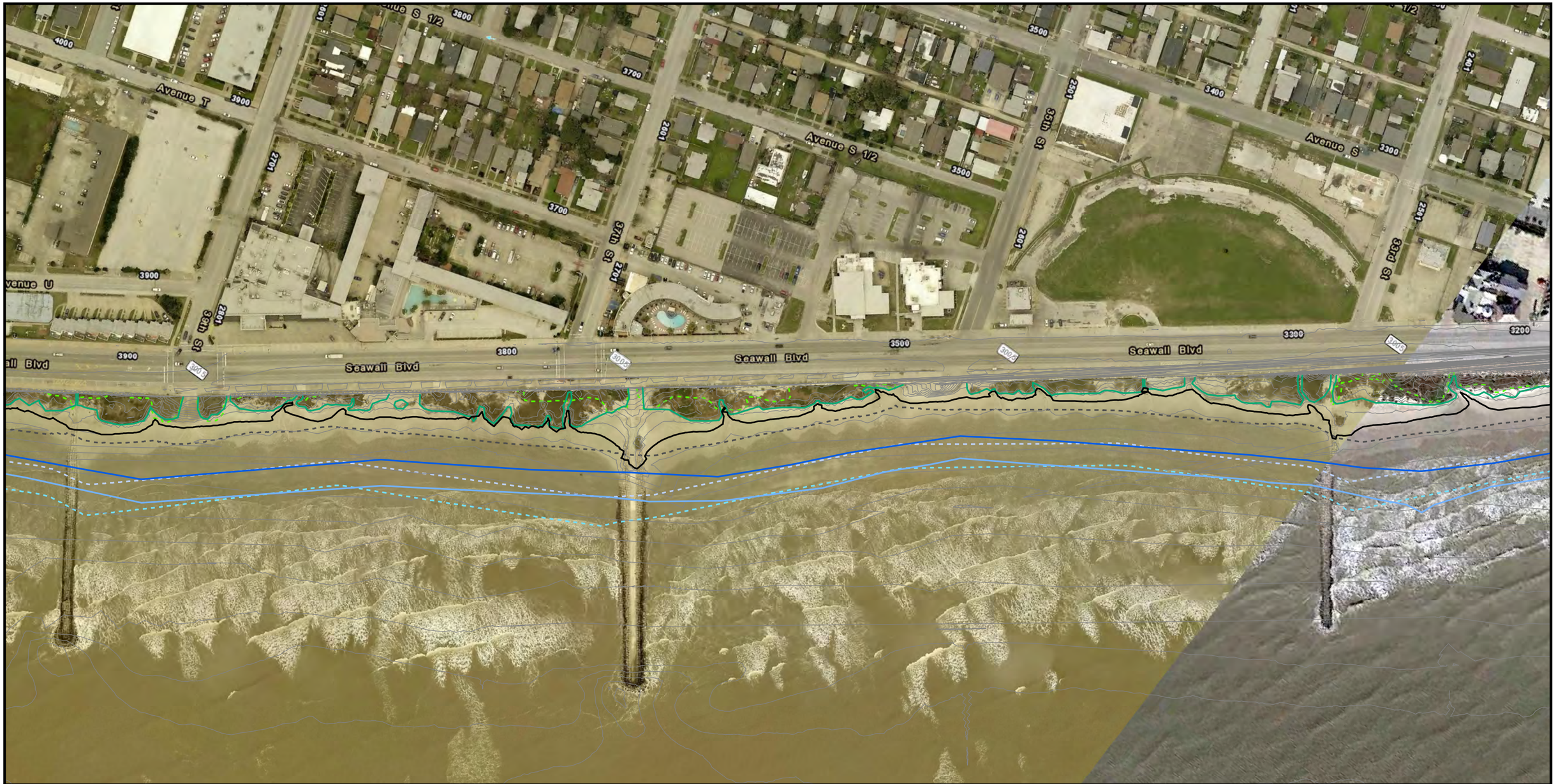

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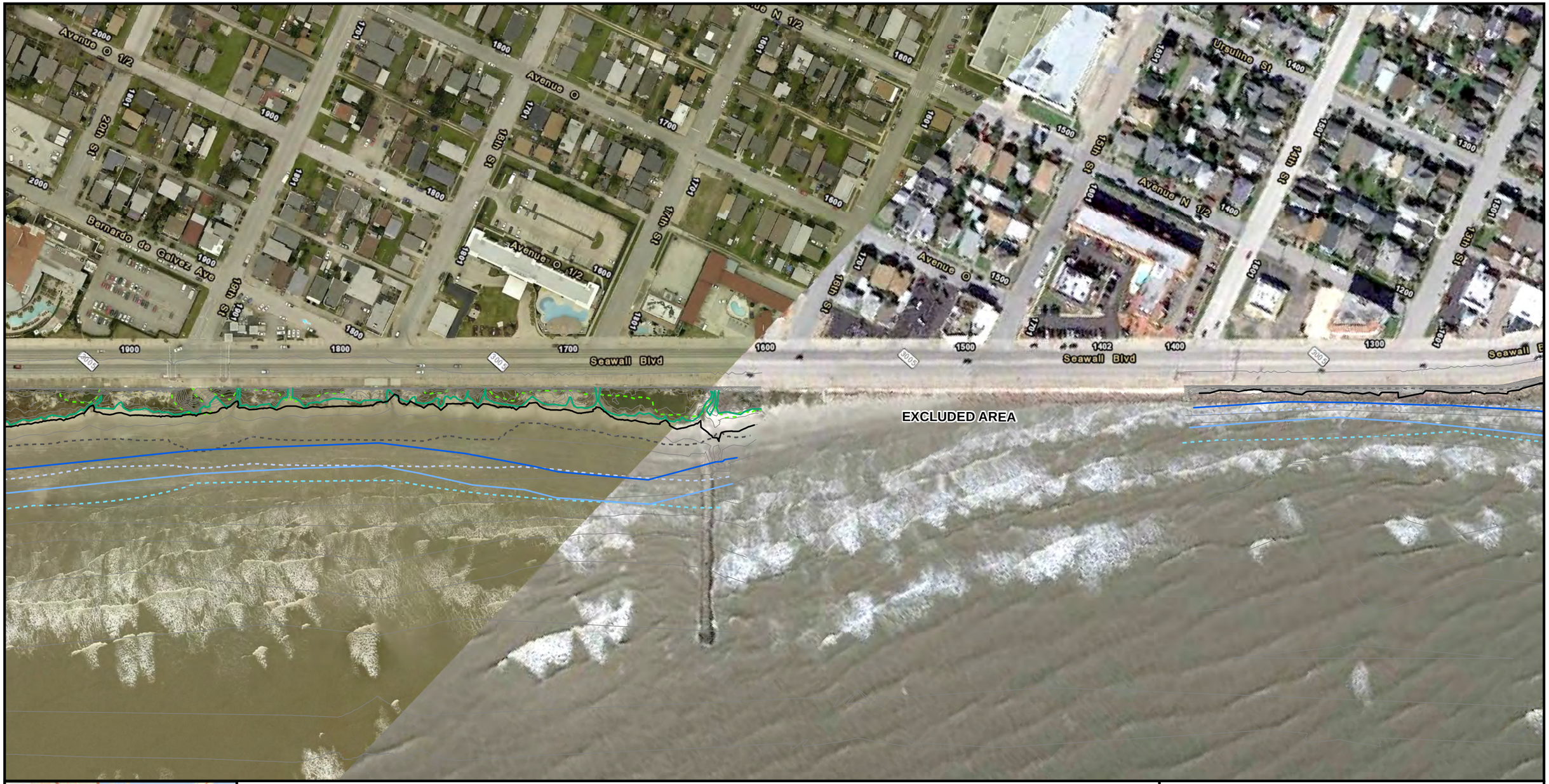

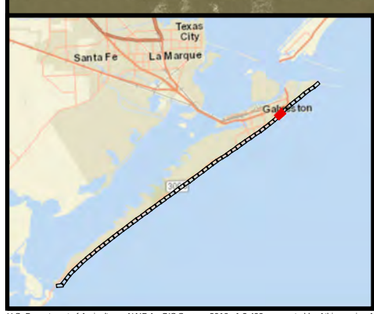

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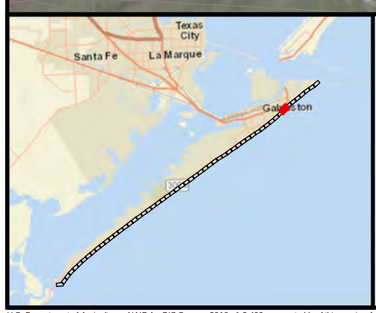

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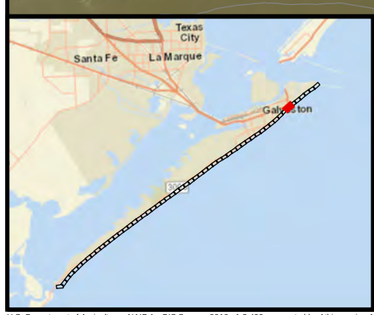

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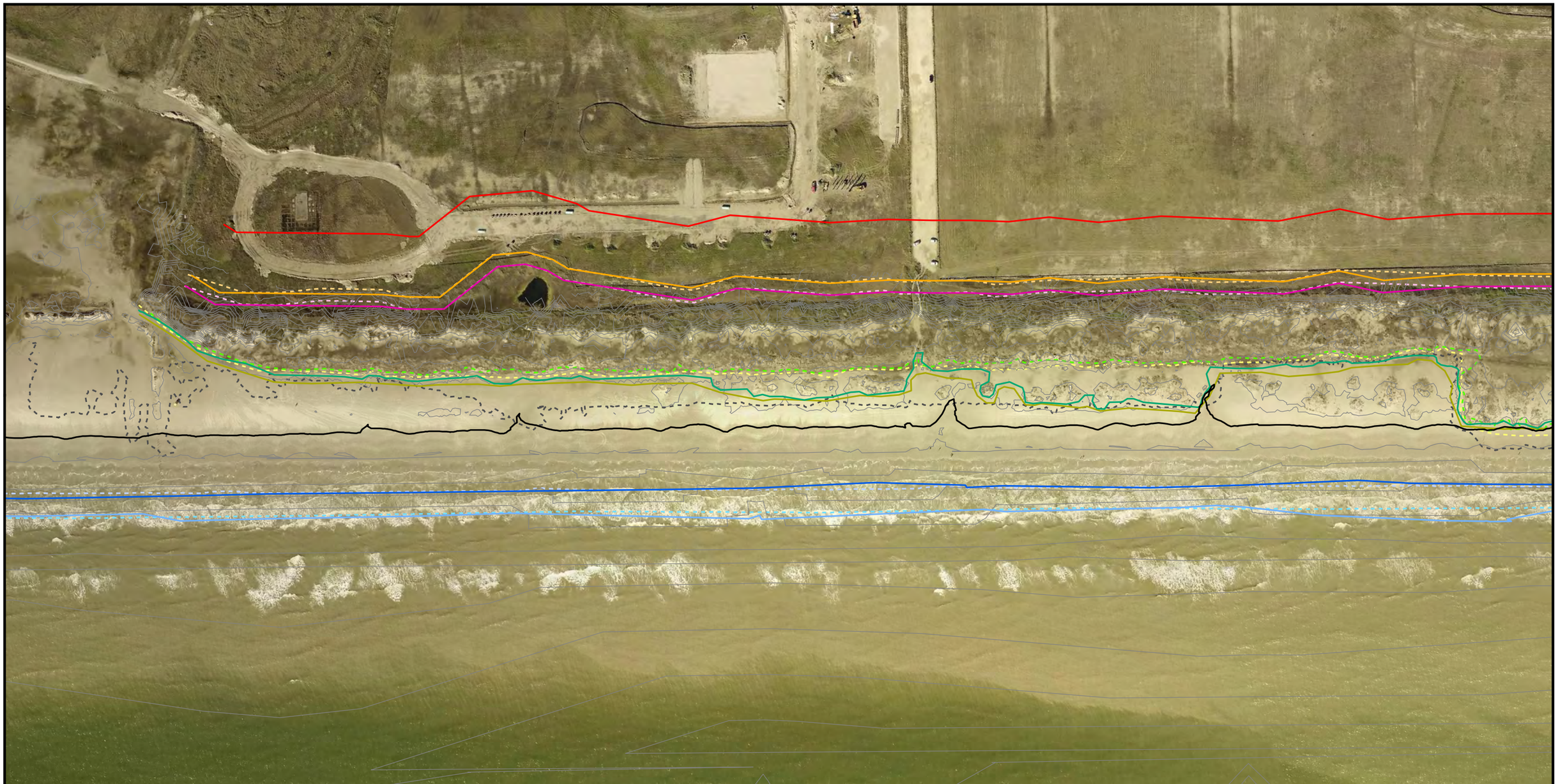

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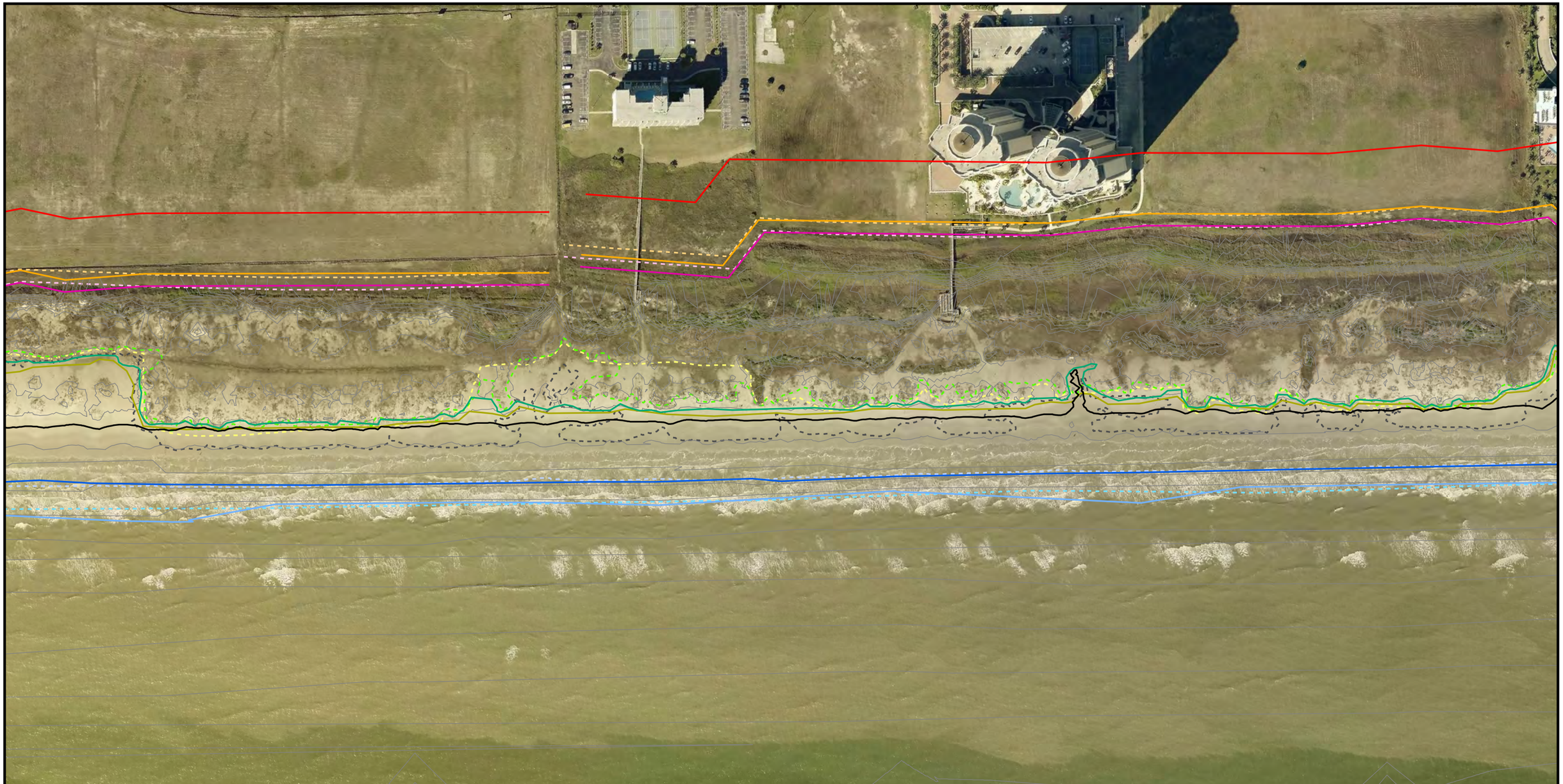

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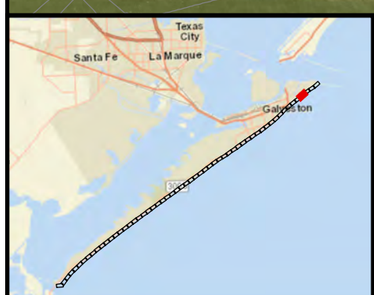

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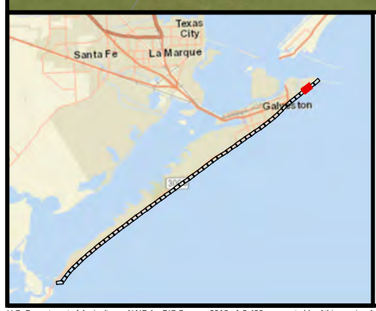

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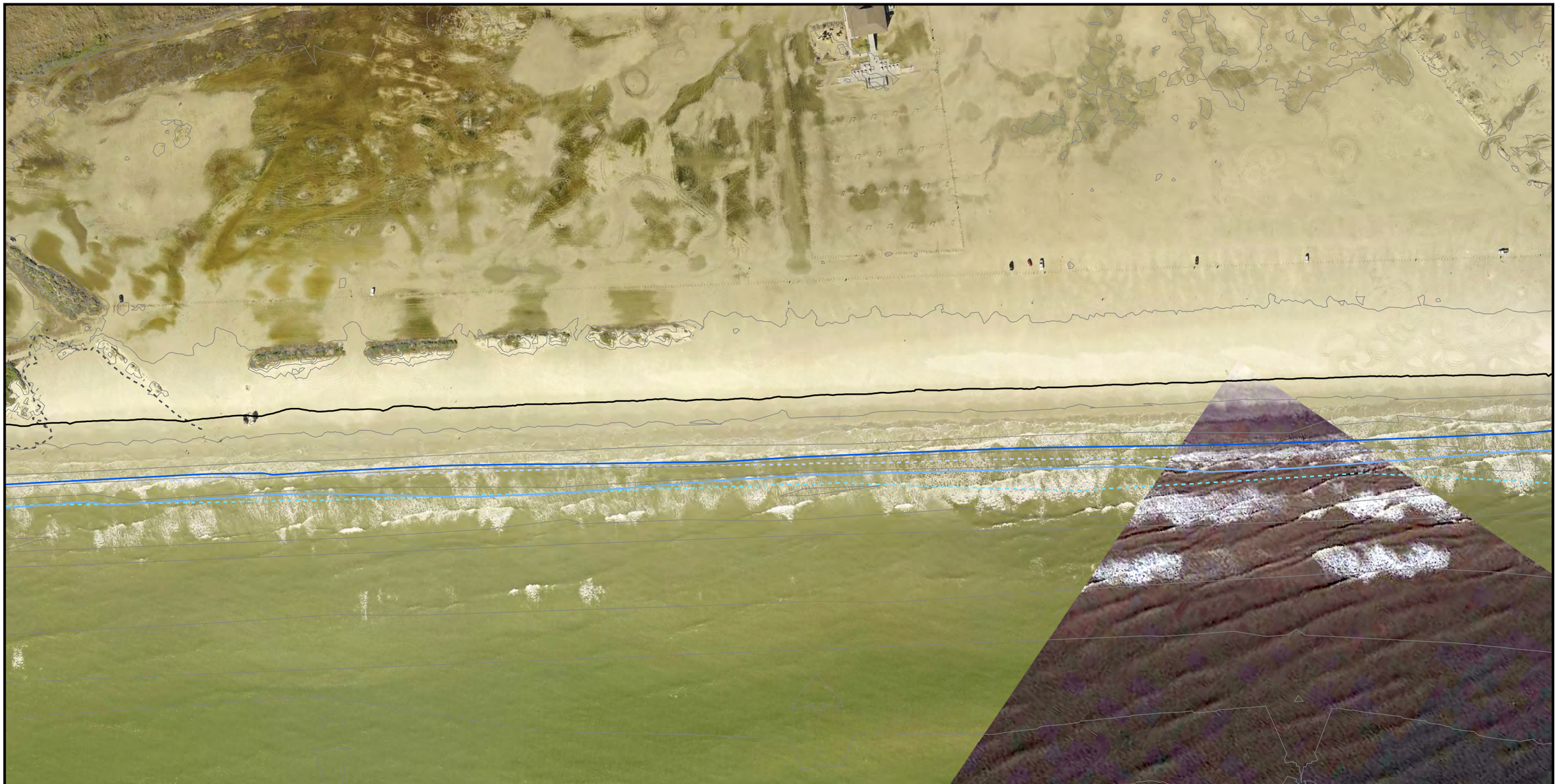

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2016 Wading Depth Survey
City of Galveston

Galveston County, Texas
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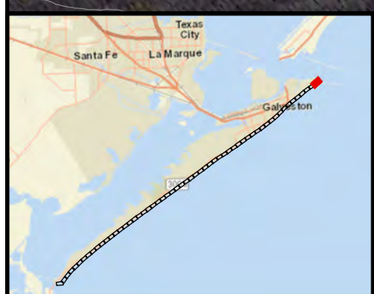
Job No.: 100049360	Scale: 1 " = 200 '
Prepared By: Atkins/WHIT6392	Date: Sep 28, 2016

N:\Clients\G_H\Galveston\100049360\geo\figs\Wading_Depth_Survey_2016_11x17_v4.mxd

U.S. Department of Agriculture. NAIP ArcGIS Server. 2016. 1:2,400; generated by Atkins; using ArcMap.<http://gis.apfo.usda.gov/arcgis/services> (28 September 2016)



- 2015 4' CONTOUR
- 2015 APPROXIMATE LINE OF VEGETATION
- 2015 SOUTH TOE OF DUNE
- 2015 NORTH TOE OF DUNE
- 2015 MEAN HIGH WATER
- 2015 MEAN LOW WATER
- 2015 25' OFFSET NORTH TOE OF DUNE
- 2015 ENHANCED CONSTRUCTION ZONE
- 2016 4' CONTOUR
- 2016 APPROXIMATE LINE OF VEGETATION
- 2016 SOUTH TOE OF DUNE
- 2016 NORTH TOE OF DUNE
- 2016 MEAN HIGH WATER
- 2016 MEAN LOW WATER
- 2016 25' OFFSET NORTH TOE OF DUNE
- 2016 ENHANCED CONSTRUCTION ZONE
- 2016 CONTOURS

The north toe of dune, as shown hereon, is approximate and based on a combination of survey contour lines and depiction from aerial imagery. Atkins does not certify to the location of said line.
Aerial imagery shown for informational purposes only.

Data shown hereon is for informational purposes only and does not constitute a boundary survey

0 100 200 Feet

Datum: NAD 1983
Projection: State Plane Texas South Central
Units: Feet
Aerials: NAIP WMS 2016

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