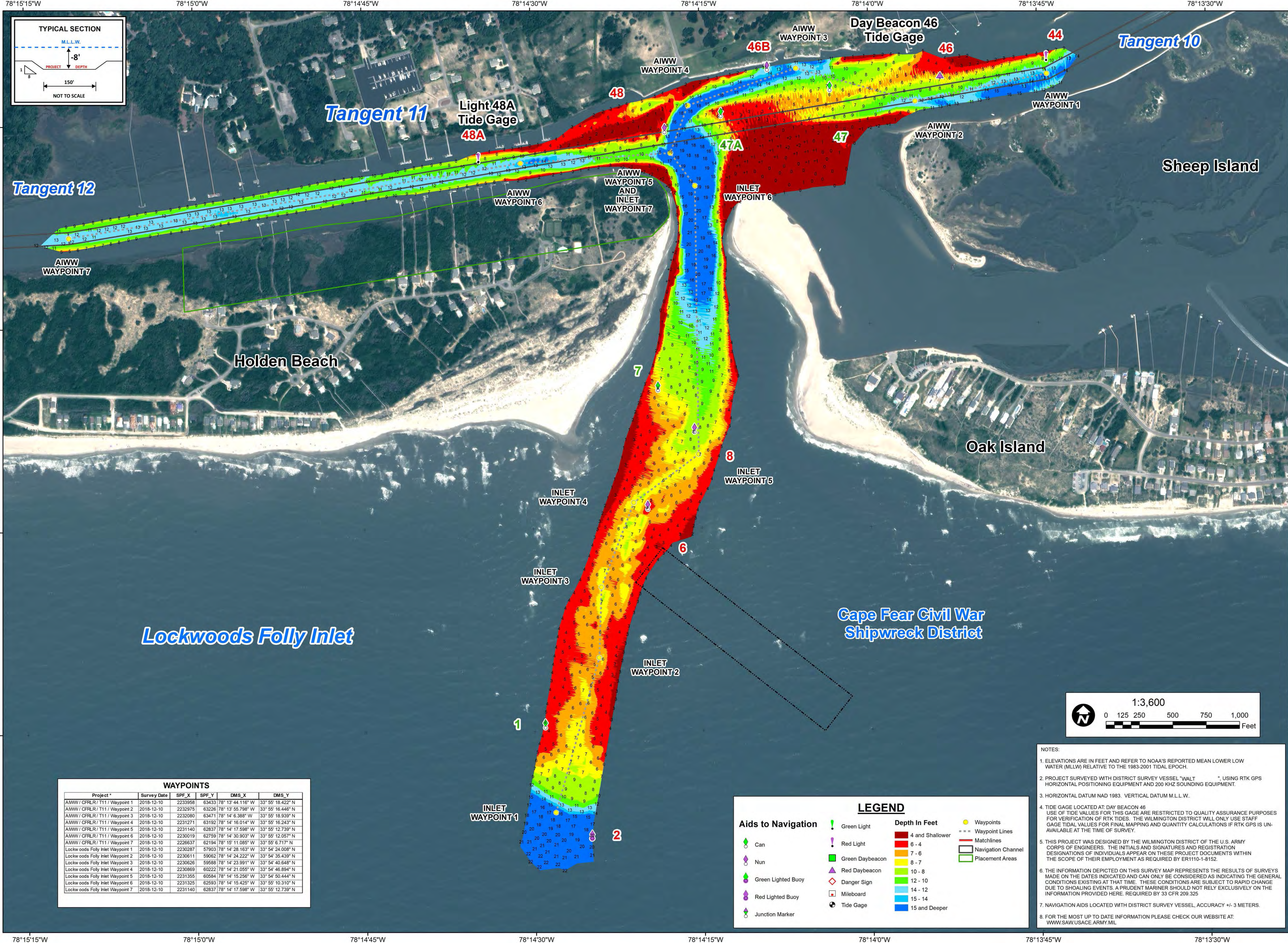






US Army Corps of Engineers
Wilmington District

NORTH CAROLINA



Wilmington

Morehead City

ATLANTIC OCEAN

Lockwoods Folly Inlet



Wilmington

Morehead City

ATLANTIC OCEAN

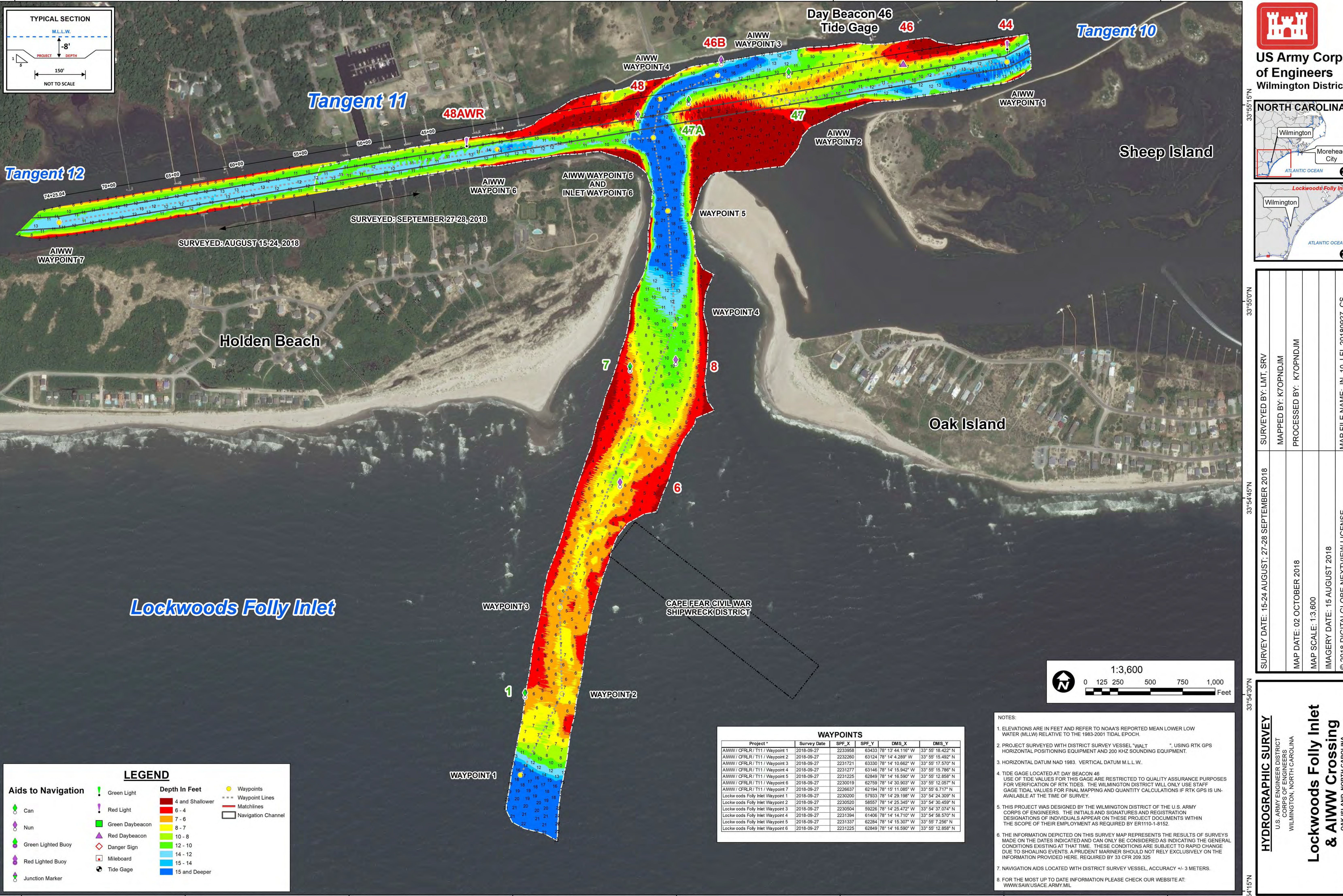
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MAP DATE: 14 DECEMBER 2018	MAPPED BY: KTOPNDJM
MAP SCALE: 1:3,600	PROCESSED BY: KTOPNDJM
IMAGERY DATE: 15 AUGUST 2018	
© 2018 DIGITALGLOBE NEXTVIEW LICENSE	MAP FILE NAME: IN_10_LFI_20181210_CS

HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

Lockwoods Folly Inlet & AIWW Crossing

OAK ISLAND, NORTH CAROLINA



US Army Corps of Engineers
Wilmington District

NORTH CAROLINA

Wilmington
Morehead City

Lockwoods Folly Inlet

Wilmington

ATLANTIC OCEAN

SURVEY DATE: 15-24 AUGUST; 27-28 SEPTEMBER 2018	SURVEYED BY: LMT, SRV
MAP DATE: 02 OCTOBER 2018	MAPPED BY: KTOPNDJM
MAP SCALE: 1:3,600	PROCESSED BY: KTOPNDJM
IMAGERY DATE: 15 AUGUST 2018	
© 2018 DIGITAL GLOBE NEXTVIEW LICENSE	MAP FILE NAME: IN_10_LFI_20180927_CS

HYDROGRAPHIC SURVEY

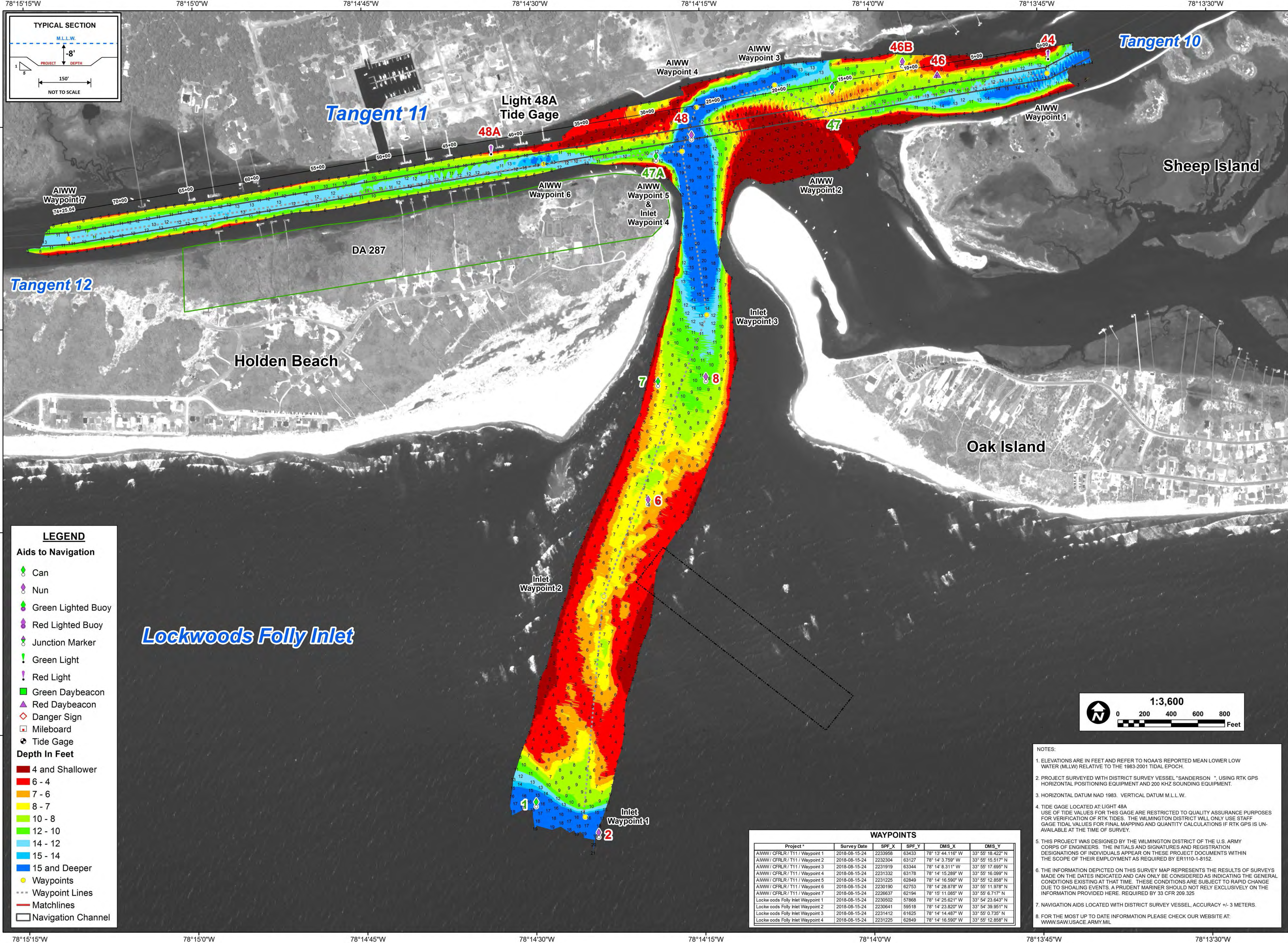
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

**Lockwoods Folly Inlet
& AIWW Crossing**

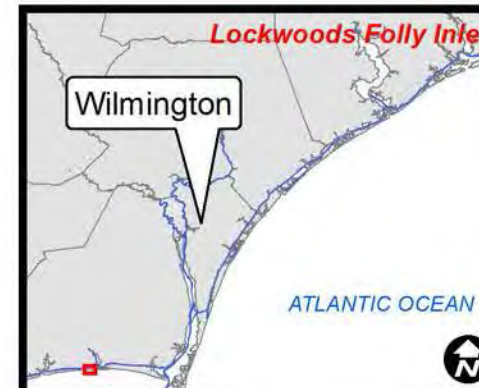
OAK ISLAND, NORTH CAROLINA

NOTES:

- ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "WALT" HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT. * USING RTK GPS
- HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.
- TIDE GAGE LOCATED AT: DAY BEACON 46
USE OF TIDE VALUES FOR THIS GAGE ARE RESTRICTED TO QUALITY ASSURANCE PURPOSES FOR VERIFICATION OF RTK TIDES. THE WILMINGTON DISTRICT WILL ONLY USE STAFF GAGE TIDAL VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UNAVAILABLE AT THE TIME OF SURVEY.
- THIS PROJECT WAS DESIGNED BY THE WILMINGTON 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.
- 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
- NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
- FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL



**US Army Corps
of Engineers
Wilmington District**



SURVEY DATE: 15, 17, 20, & 24, AUGUST 2018	SURVEYED BY: WJC, MAS, JBD
	MAPPED BY: K7PDPSGD
MAP DATE: 27 AUGUST 2018	PROCESSED BY: K7PDPSGD
MAP SCALE: 1:3,600	
IMAGERY DATE: 19 JULY 2018	
© 2018 DIGITALGLOBE NEXTVIEW LICENSE	MAP FILE NAME: IN_10_LFI_20180815_CS

HYDROGRAPHIC SURVEY

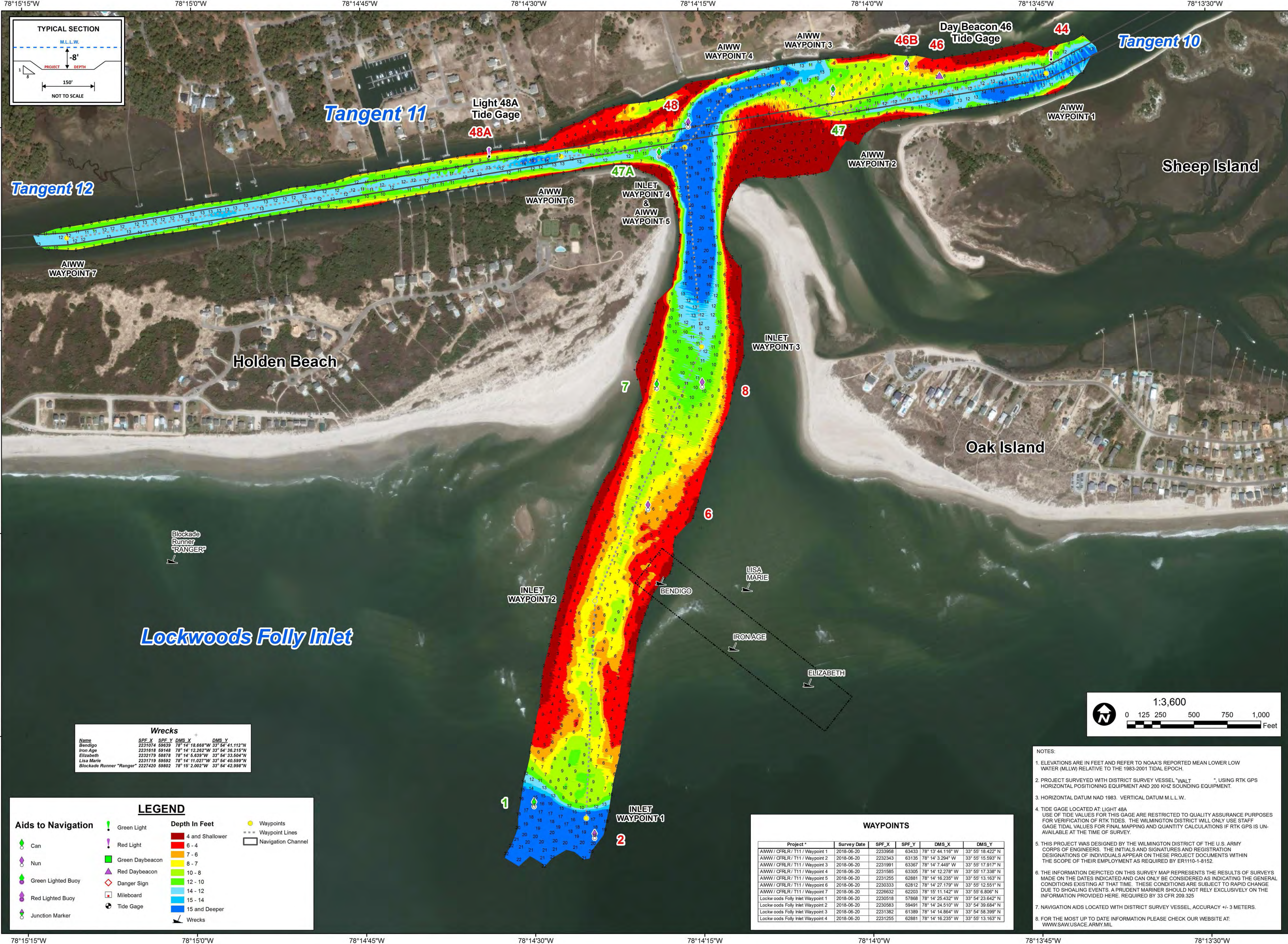
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

Lockwoods Folly Inlet & AIWW Crossing

PAKISI AND NORTH CAROLINA

NOTES:

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2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "SANDERSON ", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
3. HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.
4. TIDE GAGE LOCATED AT LIGHT 48A
USE OF TIDE VALUES FOR THIS GAGE ARE RESTRICTED TO QUALITY ASSURANCE PURPOSES FOR VERIFICATION OF RTK TIDES. THE WILMINGTON DISTRICT WILL ONLY USE STAFF GAGE TIDE VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UNAVAILABLE AT THE TIME OF SURVEY.
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US Army Corps
of Engineers
Wilmington District



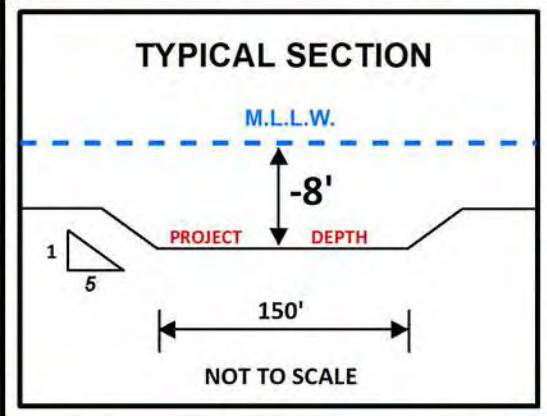
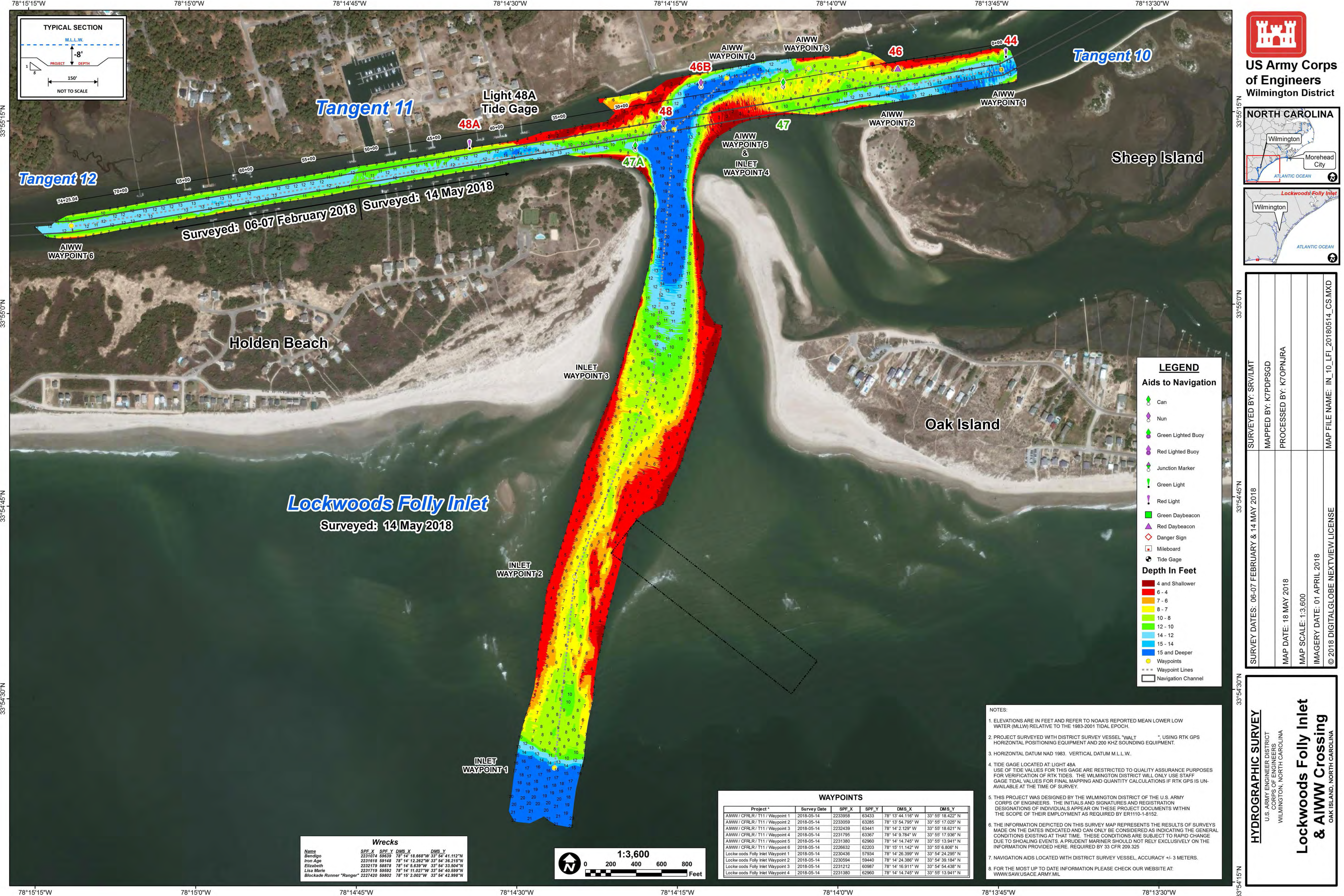
SURVEY DATE: 20-21 JUNE 2018	SURVEYED BY: LMT, WWW
MAP DATE: 25 JUNE 2018	MAPPED BY: KTOPNDJM
MAP SCALE: 1:3,600	PROCESSED BY: KTOPNDJM
IMAGERY DATE: 01 APRIL 2018	
© 2018 DIGITALGLOBE NEXTVIEW LICENSE	MAP FILE NAME: IN_10_LFI_20180620_CS

HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

**Lockwoods Folly Inlet
& AIWW Crossing**

OAK ISLAND, NORTH CAROLINA



Tangent 12

Tangent 11

**Light 48A
Tide Gage**

48A

**AIWW
WAYPOINT 4**

**AIWW
WAYPOINT 3**

46

44

Tangent 10

Sheep Island

Oak Island

Lockwoods Folly Inlet

Surveyed: 14 May 2018

Surveyed: 06-07 February 2018

Surveyed: 14 May 2018

Holden Beach

**INLET
WAYPOINT 3**

**INLET
WAYPOINT 2**

**INLET
WAYPOINT 1**

LEGEND

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker
- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard
- Tide Gage

Depth In Feet

- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper
- Waypoints
- Waypoint Lines
- Navigation Channel

Wrecks

Name	SPF_X	SPF_Y	DMS_X	DMS_Y
Bendigo	2231074	59639	78° 14' 18.868\"W	33° 54' 41.112\"N
Iron Age	2231618	59148	78° 14' 12.282\"W	33° 54' 36.215\"N
Elizabeth	2232179	58878	78° 14' 5.639\"W	33° 54' 33.604\"N
Lisa Marie	2231719	58592	78° 14' 11.027\"W	33° 54' 40.999\"N
Blockade Runner "Ranger"	2231420	58802	78° 14' 2.002\"W	33° 54' 42.998\"N

WAYPOINTS

Project *	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW / CFRLR / T11 / Waypoint 1	2018-05-14	2233958	63433	78° 13' 44.116\"W	33° 55' 18.422\"N
AIWW / CFRLR / T11 / Waypoint 2	2018-05-14	2233059	63285	78° 13' 54.795\"W	33° 55' 17.025\"N
AIWW / CFRLR / T11 / Waypoint 3	2018-05-14	2232439	63441	78° 14' 2.129\"W	33° 55' 18.621\"N
AIWW / CFRLR / T11 / Waypoint 4	2018-05-14	2231795	63367	78° 14' 9.784\"W	33° 55' 17.936\"N
AIWW / CFRLR / T11 / Waypoint 5	2018-05-14	2231380	62960	78° 14' 14.745\"W	33° 55' 13.941\"N
AIWW / CFRLR / T11 / Waypoint 6	2018-05-14	2226332	62203	78° 15' 11.142\"W	33° 55' 6.806\"N
Lockw oods Folly Inlet Waypoint 1	2018-05-14	2230436	57934	78° 14' 26.399\"W	33° 54' 24.295\"N
Lockw oods Folly Inlet Waypoint 2	2018-05-14	2230594	59440	78° 14' 24.386\"W	33° 54' 39.184\"N
Lockw oods Folly Inlet Waypoint 3	2018-05-14	2231212	60987	78° 14' 16.911\"W	33° 54' 54.438\"N
Lockw oods Folly Inlet Waypoint 4	2018-05-14	2231380	62960	78° 14' 14.745\"W	33° 55' 13.941\"N

- NOTES:**
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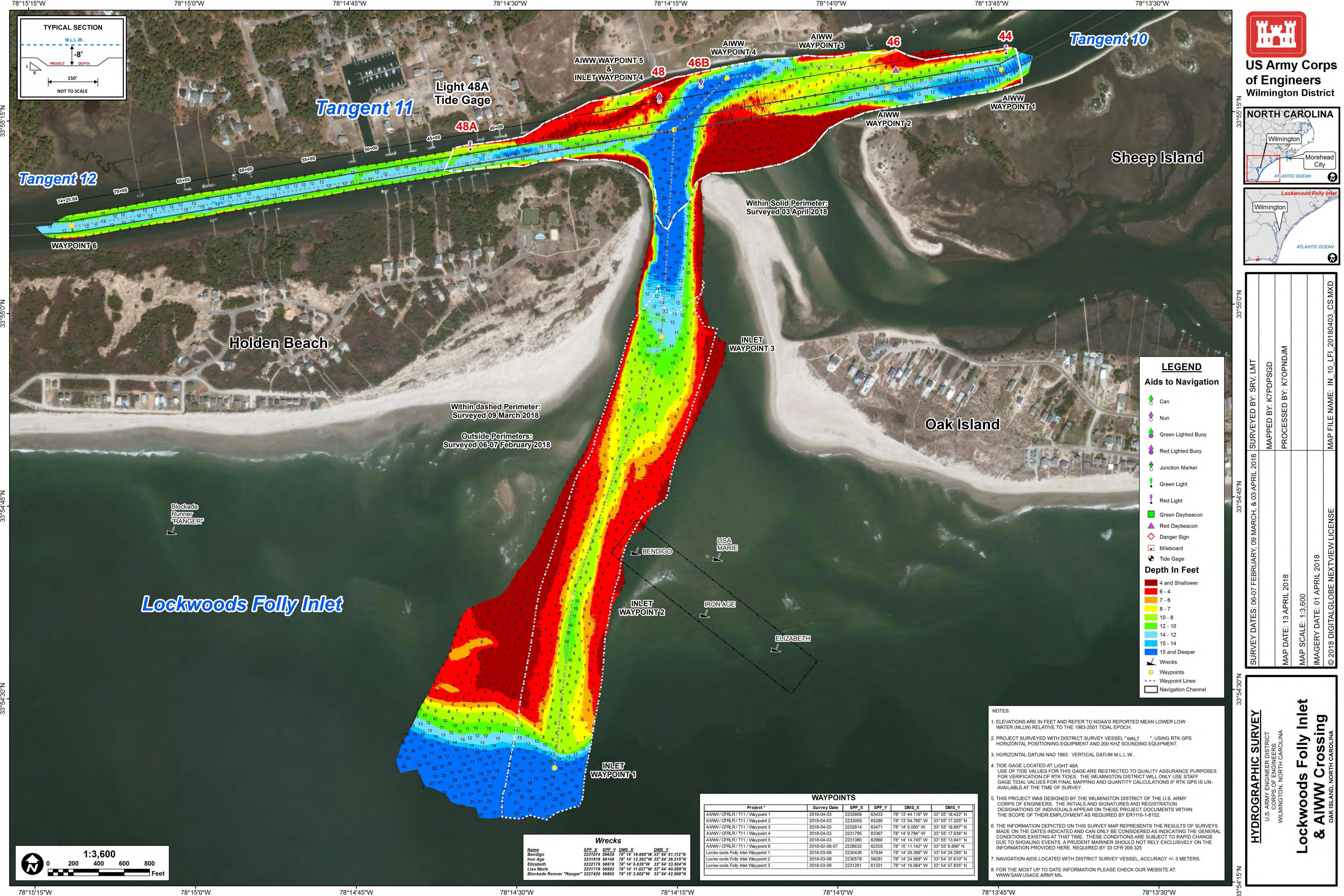
**US Army Corps
of Engineers
Wilmington District**



SURVEYED BY: SRV/LMT	SURVEY DATES: 06-07 FEBRUARY & 14 MAY 2018
MAPPED BY: K7PDPSGD	
PROCESSED BY: K7OPNJRA	
MAP DATE: 18 MAY 2018	
MAP SCALE: 1:3,600	
IMAGERY DATE: 01 APRIL 2018	
MAP FILE NAME: IN_10_LFI_20180514_CS.MXD	

HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

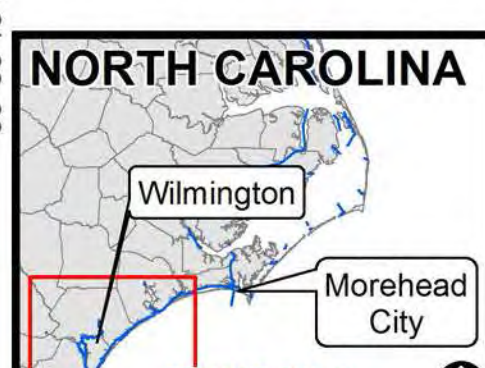
**Lockwoods Folly Inlet
& AIWW Crossing**
OAK ISLAND, NORTH CAROLINA





**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA



Wilmington
Morehead City
ATLANTIC OCEAN

Lockwoods Folly Inlet



Wilmington
ATLANTIC OCEAN

SURVEY DATES: 06-07 FEBRUARY, 09 MARCH, & 03 APRIL 2018	SURVEYED BY: SRV. LMT
MAP DATE: 13 APRIL 2018	MAPPED BY: K7DPDPSGD
MAP SCALE: 1:3,600	PROCESSED BY: K7OPNDJM
IMAGERY DATE: 01 APRIL 2018	
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HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

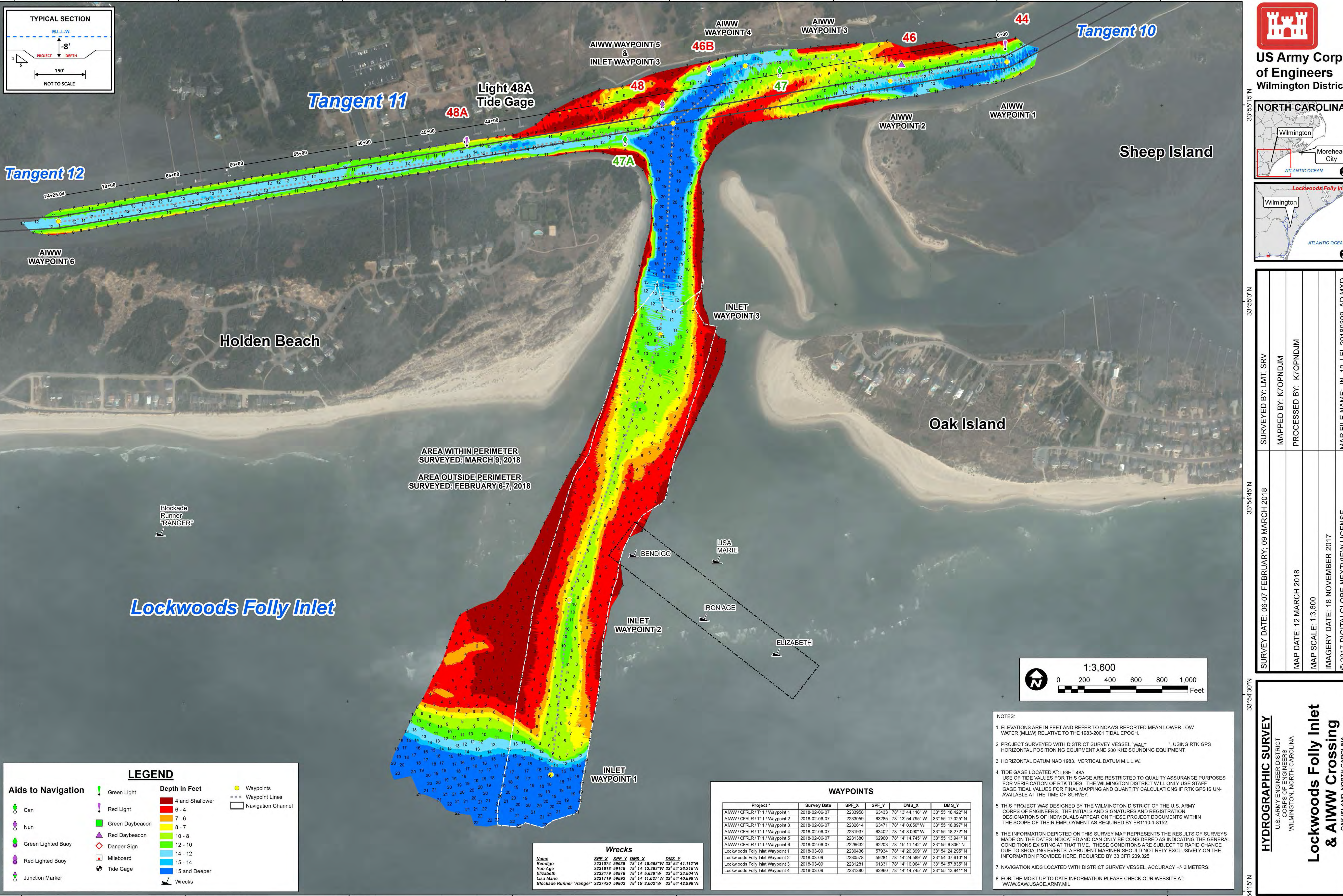
**Lockwoods Folly Inlet
& AIWW Crossing**

OAK ISLAND, NORTH CAROLINA

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 - HORIZONTAL DATUM NAD 83. VERTICAL DATUM M.L.L.W.
 - TIDE GAGE LOCATED AT: LIGHT 48A
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WAYPOINTS					
Project *	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW / CFRLR / T11 / Waypoint 1	2018-04-03	2233958	63433	78° 13' 44.116" W	33° 55' 18.422" N
AIWW / CFRLR / T11 / Waypoint 2	2018-04-03	2233059	63285	78° 13' 54.785" W	33° 55' 17.025" N
AIWW / CFRLR / T11 / Waypoint 3	2018-04-03	2232614	63471	78° 14' 0.060" W	33° 55' 18.897" N
AIWW / CFRLR / T11 / Waypoint 4	2018-04-03	2231795	63367	78° 14' 9.784" W	33° 55' 17.936" N
AIWW / CFRLR / T11 / Waypoint 5	2018-04-03	2231380	62960	78° 14' 14.745" W	33° 55' 13.941" N
AIWW / CFRLR / T11 / Waypoint 6	2018-02-06-07	2226632	62203	78° 15' 11.142" W	33° 55' 6.806" N
Lockwoods Folly Inlet Waypoint 1	2018-03-09	2230436	57934	78° 14' 26.389" W	33° 54' 24.295" N
Lockwoods Folly Inlet Waypoint 2	2018-03-09	2230578	59281	78° 14' 24.589" W	33° 54' 37.610" N
Lockwoods Folly Inlet Waypoint 3	2018-03-09	2231281	61331	78° 14' 16.064" W	33° 54' 57.835" N

Wrecks					
Name	SPF_X	SPF_Y	DMS_X	DMS_Y	
Bendigo	2231074	59639	78° 14' 18.668" W	33° 54' 41.112" N	
Iron Age	2231618	59148	78° 14' 12.262" W	33° 54' 36.215" N	
Elizabeth	2232178	58878	78° 14' 5.639" W	33° 54' 33.504" N	
Lisa Marie	2231718	58592	78° 14' 11.027" W	33° 54' 40.599" N	
Blockade Runner "Ranger"	2227420	59802	78° 15' 2.002" W	33° 54' 42.998" N	



US Army Corps
of Engineers
Wilmington District



SURVEY DATE: 06-07 FEBRUARY; 09 MARCH 2018	SURVEYED BY: LMT. SRV
MAP DATE: 12 MARCH 2018	MAPPED BY: K7OPNDJM
MAP SCALE: 1:3,600	PROCESSED BY: K7OPNDJM
IMAGERY DATE: 18 NOVEMBER 2017	
© 2017 DIGITALGLOBE NEXTVIEW LICENSE	MAP FILE NAME: IN_10_LFI_20180309_AD.MXD

HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

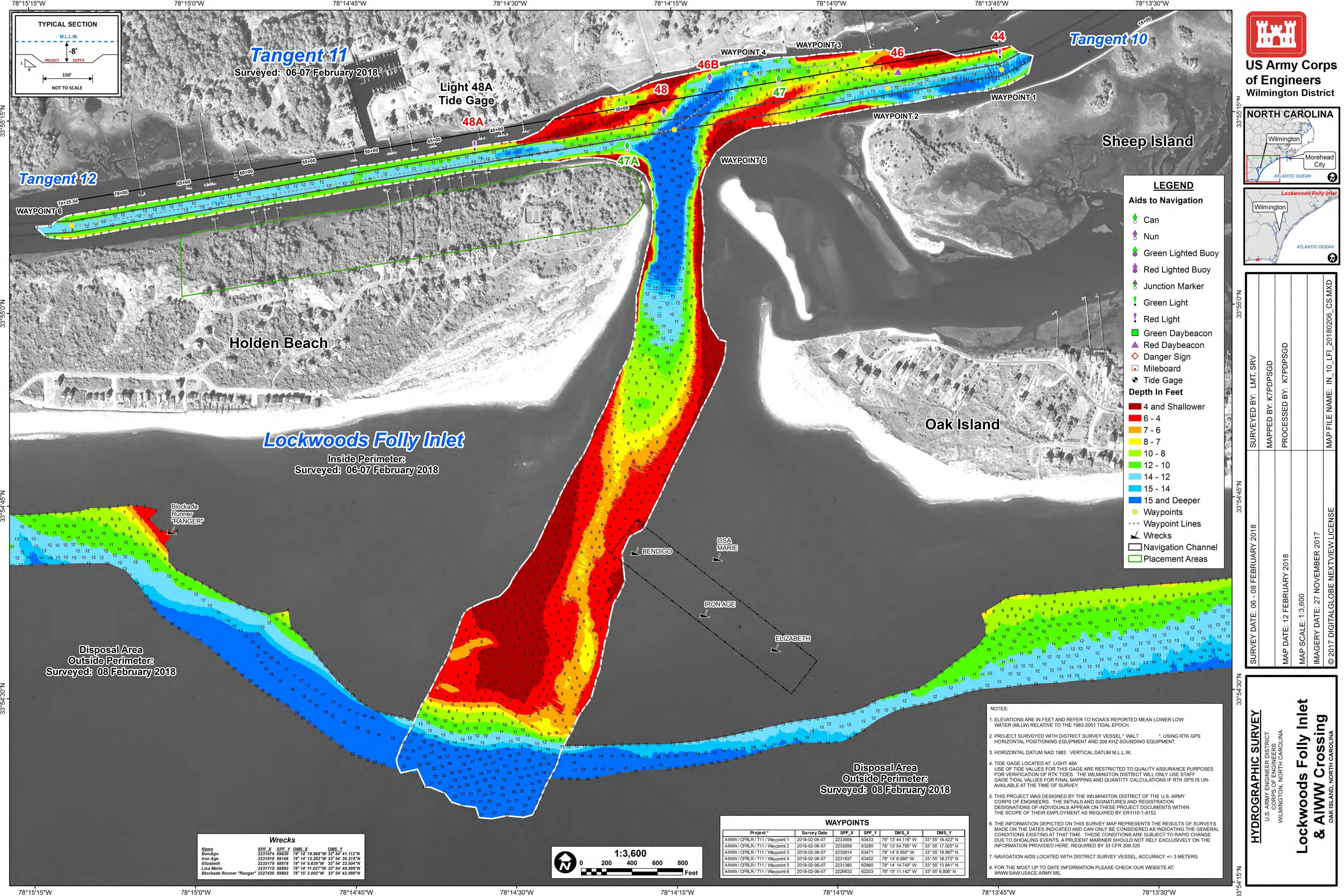
Lockwoods Folly Inlet
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OAK ISLAND, NORTH CAROLINA

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WAYPOINTS					
Project *	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AMWW / CFRLR / T11 / Waypoint 1	2018-02-06-07	2233958	63433	78° 13' 44.116" W	33° 55' 18.422" N
AMWW / CFRLR / T11 / Waypoint 2	2018-02-06-07	2233059	63285	78° 13' 54.795" W	33° 55' 17.025" N
AMWW / CFRLR / T11 / Waypoint 3	2018-02-06-07	2232614	63471	78° 14' 0.050" W	33° 55' 18.897" N
AMWW / CFRLR / T11 / Waypoint 4	2018-02-06-07	2231937	63402	78° 14' 8.090" W	33° 55' 18.272" N
AMWW / CFRLR / T11 / Waypoint 5	2018-02-06-07	2231380	62960	78° 14' 14.745" W	33° 55' 13.941" N
AMWW / CFRLR / T11 / Waypoint 6	2018-02-06-07	2226632	62203	78° 15' 11.142" W	33° 55' 6.806" N
Lockwoods Folly Inlet Waypoint 1	2018-03-09	2230436	57934	78° 14' 26.399" W	33° 54' 24.295" N
Lockwoods Folly Inlet Waypoint 2	2018-03-09	2230578	59281	78° 14' 24.589" W	33° 54' 37.610" N
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Name	SPF_X	SPF_Y	DMS_X	DMS_Y
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Lisa Marie	2231719	59592	78° 14' 11.027" W	33° 54' 40.599" N
Blockade Runner "Ranger"	2227420	59802	78° 15' 2.002" W	33° 54' 42.998" N



US Army Corps
of Engineers
Wilmington District



SURVEY DATE: 06 - 08 FEBRUARY 2018	SURVEYED BY: LMT, SRV
MAP DATE: 12 FEBRUARY 2018	MAPPED BY: K7PDPSGD
MAP SCALE: 1:3,600	PROCESSED BY: K7PDPSGD
IMAGERY DATE: 27 NOVEMBER 2017	
© 2017 DIGITALGLOBE NEXTVIEW LICENSE	MAP FILE NAME: IN_10_LFI_20180206_CS.MXD

HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

Lockwoods Folly Inlet
& AIWW Crossing

OAK ISLAND, NORTH CAROLINA

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Project *	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW / CFRLR / T11 / Waypoint 1	2018-02-06-07	2233958	63433	78° 13' 44.116" W	33° 55' 18.422" N
AIWW / CFRLR / T11 / Waypoint 2	2018-02-06-07	2233059	63285	78° 13' 54.795" W	33° 55' 17.025" N
AIWW / CFRLR / T11 / Waypoint 3	2018-02-06-07	2232814	63471	78° 14' 0.050" W	33° 55' 18.897" N
AIWW / CFRLR / T11 / Waypoint 4	2018-02-06-07	2231937	63402	78° 14' 8.090" W	33° 55' 18.272" N
AIWW / CFRLR / T11 / Waypoint 5	2018-02-06-07	2231380	62960	78° 14' 14.745" W	33° 55' 13.941" N
AIWW / CFRLR / T11 / Waypoint 6	2018-02-06-07	2226632	62203	78° 15' 11.142" W	33° 55' 6.606" N

Wrecks			
Name	SPF_X	SPF_Y	DMS_X
Bendigo	2231074	65639	78° 14' 18.668" W
Iron Age	2231618	69148	78° 14' 12.262" W
Elizabeth	2232179	68878	78° 14' 5.839" W
Lisa Marie	2231719	68892	78° 14' 11.027" W
Blockade Runner "Ranger"	2227420	69802	78° 15' 2.002" W

