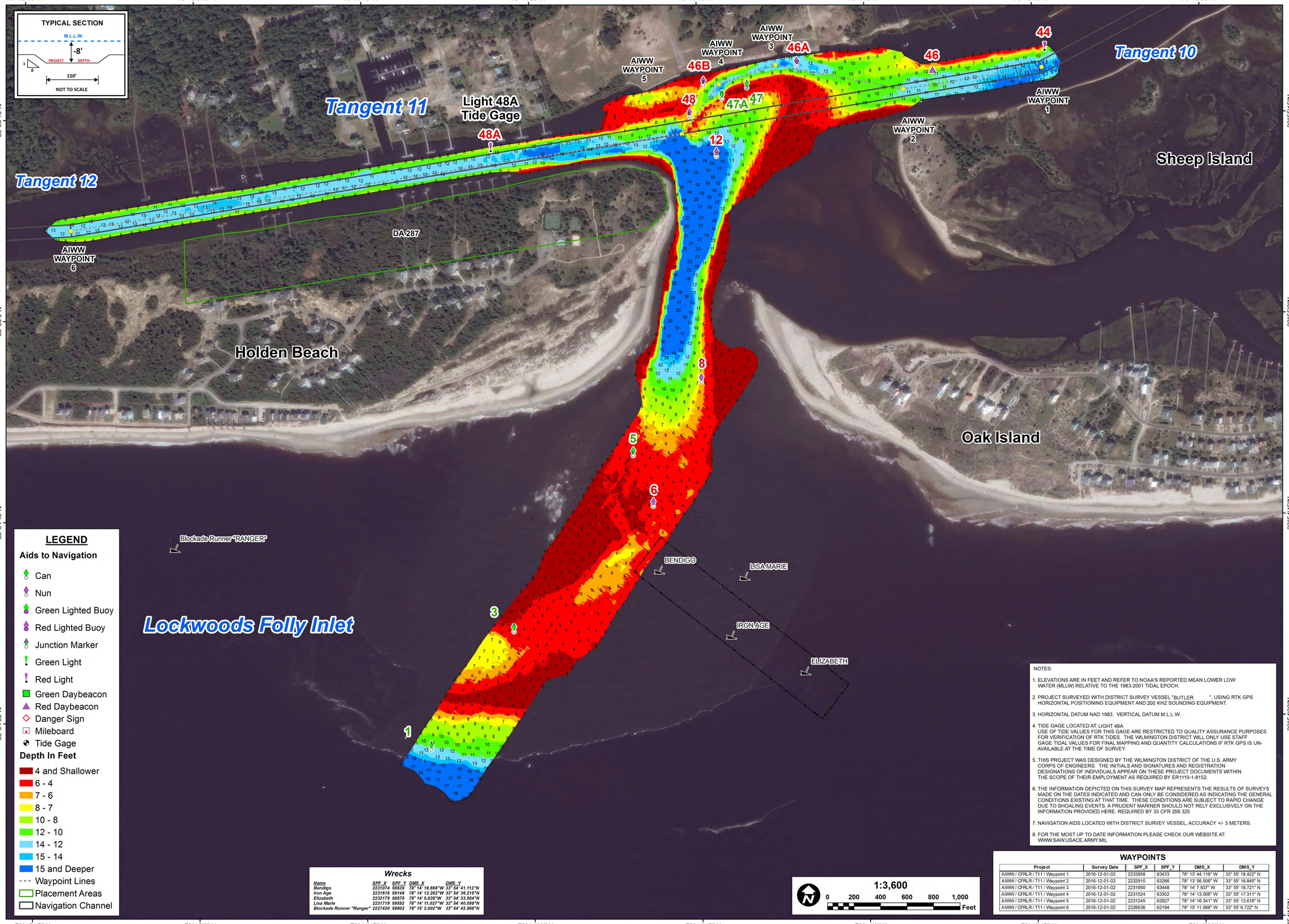

LEGEND

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
- Waypoint Lines
- Placement Areas
- Navigation Channel

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	2232179	58878	78° 14' 5.639"W	33° 54' 33.504"N
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

1:3,600

0 200 400 600 800 1,000 Feet

WAYPOINTS

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW / CFRLR / T11 / Waypoint 1	2016-12-01-02	2233958	63433	78° 13' 44.116" W	33° 55' 18.422" N
AIWW / CFRLR / T11 / Waypoint 2	2016-12-01-02	2232915	63266	78° 13' 56.506" W	33° 55' 16.845" N
AIWW / CFRLR / T11 / Waypoint 3	2016-12-01-02	2231950	63448	78° 14' 7.937" W	33° 55' 18.721" N
AIWW / CFRLR / T11 / Waypoint 4	2016-12-01-02	2231524	63302	78° 14' 13.006" W	33° 55' 17.311" N
AIWW / CFRLR / T11 / Waypoint 5	2016-12-01-02	2231245	62927	78° 14' 16.341" W	33° 55' 13.618" N
AIWW / CFRLR / T11 / Waypoint 6	2016-12-01-02	2226636	62194	78° 15' 11.088" W	33° 55' 6.722" N

NOTES:

1. ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "BUTLER ", 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 TIDAL VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UN-AVAILABLE AT THE TIME OF SURVEY.
5. 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.
6. 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
7. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
8. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL

US Army Corps of Engineers
Wilmington District

SURVEYED BY: LMT, SRV
MAPPED: K7PDPSGD
PROCESSED BY: K7PDPSGD
SURVEY DATE: 01 DECEMBER 2016
MAP DATE: 09 DECEMBER 2016
MAP SCALE: 1:3,600
IMAGERY DATE: 17 OCTOBER 2016
MAP FILE NAME: IN_10_LFI_20161201.MXD
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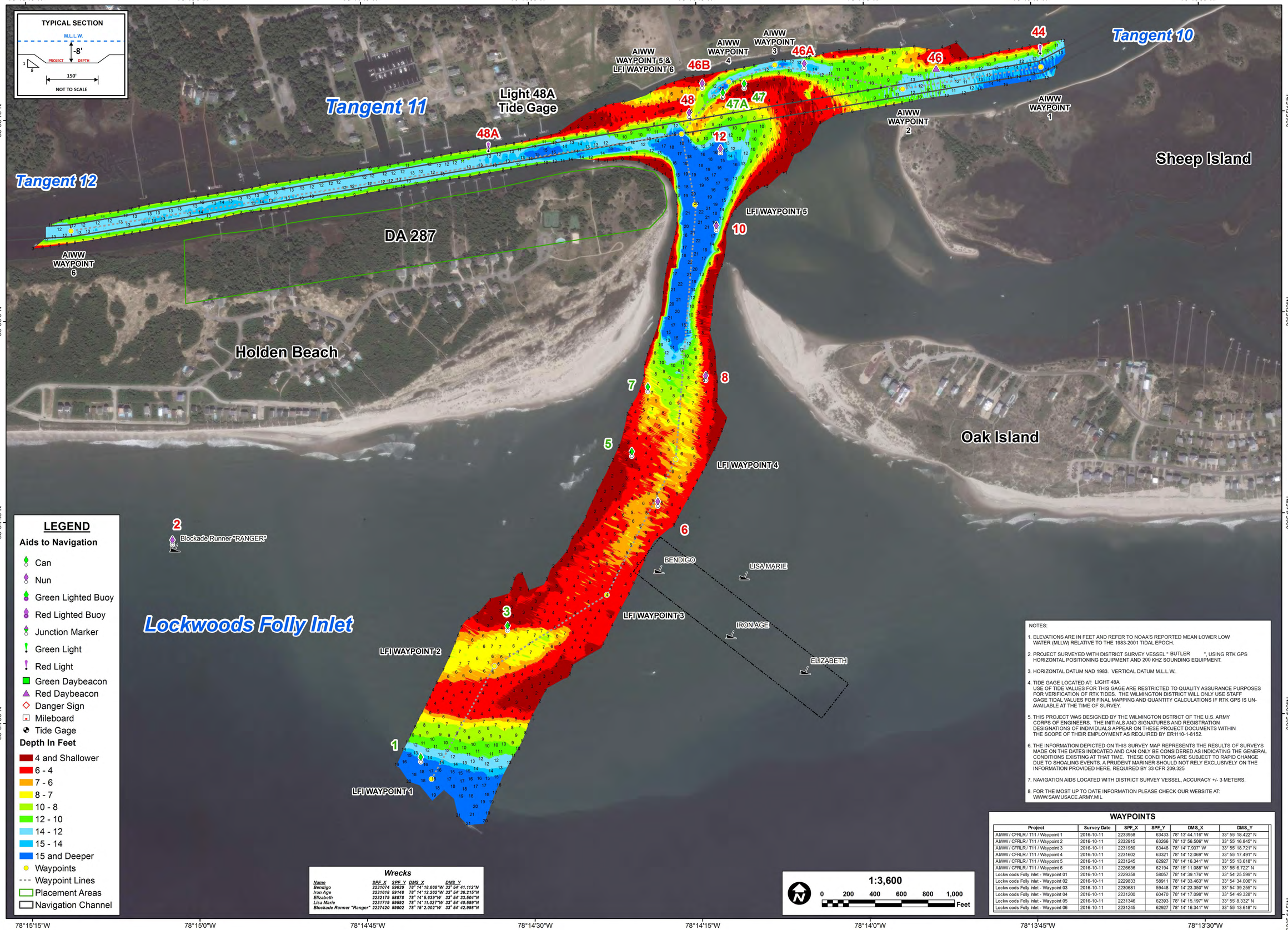
HYDROGRAPHIC SURVEY

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

Lockwoods Folly Inlet & AIWW Crossing

OAK ISLAND, NORTH CAROLINA



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	2232179	58878	78° 14' 6.639"W	33° 54' 33.504"N
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

NOTES:

1. ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL " BUTLER ", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
3. HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W..
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7. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
8. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL

WAYPOINTS

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW / CFRLR / T11 / Waypoint 1	2016-10-11	2233958	63433	78° 13' 44.116" W	33° 55' 18.422" N
AIWW / CFRLR / T11 / Waypoint 2	2016-10-11	2232915	63266	78° 13' 56.506" W	33° 55' 16.845" N
AIWW / CFRLR / T11 / Waypoint 3	2016-10-11	2231950	63448	78° 14' 7.937" W	33° 55' 18.721" N
AIWW / CFRLR / T11 / Waypoint 4	2016-10-11	2231602	63321	78° 14' 12.069" W	33° 55' 17.491" N
AIWW / CFRLR / T11 / Waypoint 5	2016-10-11	2231245	62927	78° 14' 16.341" W	33° 55' 13.618" N
AIWW / CFRLR / T11 / Waypoint 6	2016-10-11	2226636	62194	78° 15' 11.088" W	33° 55' 6.722" N
Lockw oods Folly Inlet - Waypoint 01	2016-10-11	2229358	58057	78° 14' 39.176" W	33° 54' 25.599" N
Lockw oods Folly Inlet - Waypoint 02	2016-10-11	2229833	58911	78° 14' 33.463" W	33° 54' 34.006" N
Lockw oods Folly Inlet - Waypoint 03	2016-10-11	2230681	59448	78° 14' 23.350" W	33° 54' 39.255" N
Lockw oods Folly Inlet - Waypoint 04	2016-10-11	2231200	60470	78° 14' 17.098" W	33° 54' 49.328" N
Lockw oods Folly Inlet - Waypoint 05	2016-10-11	2231346	62393	78° 14' 15.197" W	33° 55' 8.332" N
Lockw oods Folly Inlet - Waypoint 06	2016-10-11	2231245	62927	78° 14' 16.341" W	33° 55' 13.618" N

US Army Corps of Engineers
Wilmington District

NORTH CAROLINA
Wilmington
Morehead City
ATLANTIC OCEAN

Lockwoods Folly Inlet
Morehead City
Wilmington
ATLANTIC OCEAN

SURVEYED BY: LMT, SRV
MAPPED: K7PDPSGD
PROCESSED BY: DJM
SURVEY DATE: 11 OCTOBER 2016
MAP DATE: 12 OCTOBER 2016
MAP SCALE: 1:3,600
IMAGERY DATE: 3 OCTOBER 2016
MAP FILE NAME: IN_10_LFI_20161011.MXD
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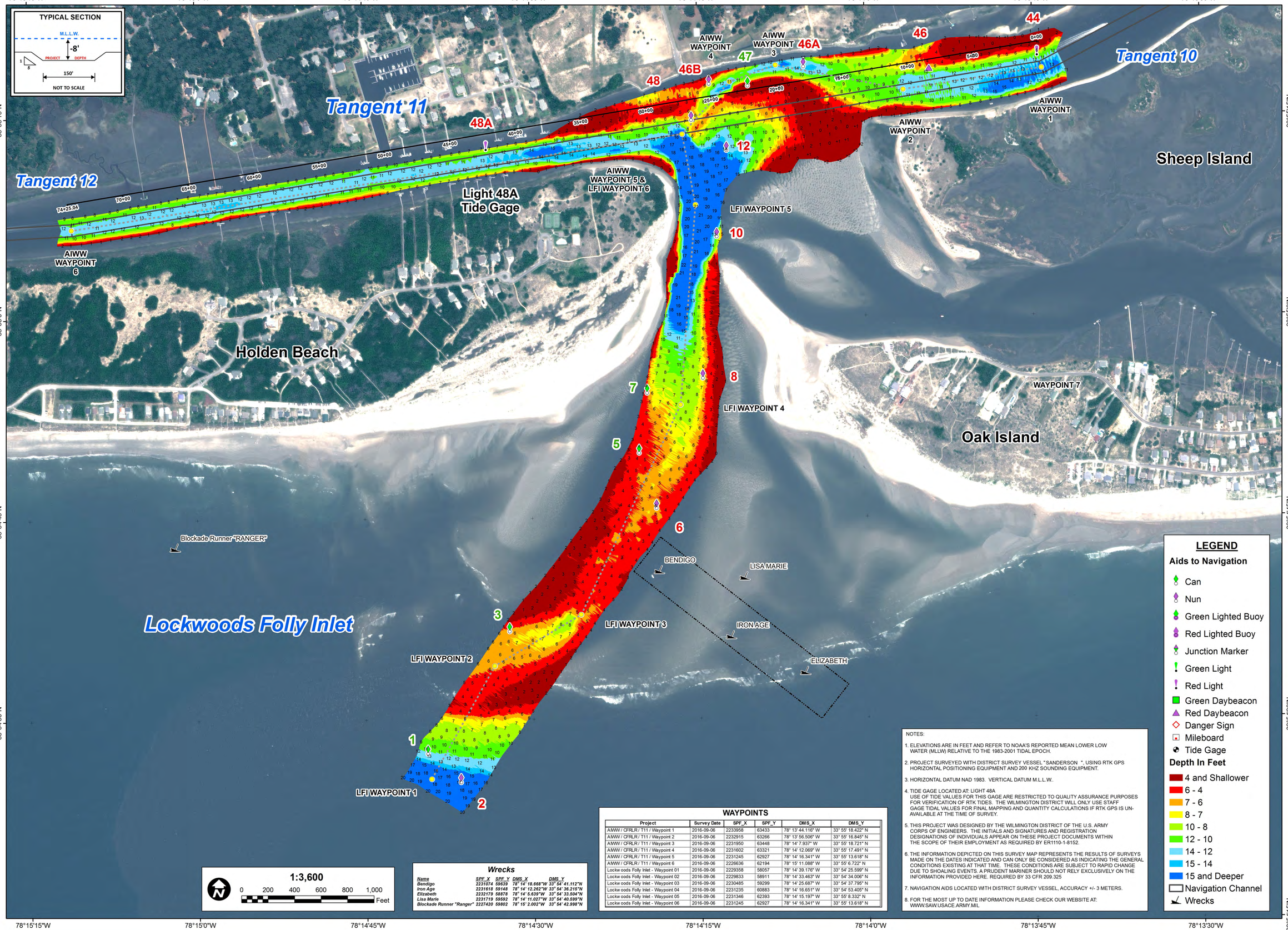
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

Lockwoods Folly Inlet & AIWW Crossing

OAK ISLAND, NORTH CAROLINA



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
- Navigation Channel
- Wrecks

1:3,600

0 200 400 600 800 1,000 Feet

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	2232179	58878	78° 14' 5.639"W	33° 54' 33.504"N
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WAYPOINTS

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW / CFRLR/ T11 / Waypoint 1	2016-09-06	2233958	63433	78° 13' 44.116" W	33° 55' 18.422" N
AIWW / CFRLR/ T11 / Waypoint 2	2016-09-06	2232915	63266	78° 13' 56.506" W	33° 55' 16.845" N
AIWW / CFRLR/ T11 / Waypoint 3	2016-09-06	2231950	63448	78° 14' 7.937" W	33° 55' 18.721" N
AIWW / CFRLR/ T11 / Waypoint 4	2016-09-06	2231602	63321	78° 14' 12.069" W	33° 55' 17.491" N
AIWW / CFRLR/ T11 / Waypoint 5	2016-09-06	2231245	62927	78° 14' 16.341" W	33° 55' 13.618" N
AIWW / CFRLR/ T11 / Waypoint 6	2016-09-06	2226636	62194	78° 15' 11.088" W	33° 55' 6.722" N
Lockw oods Folly Inlet - Waypoint 01	2016-09-06	2229358	58057	78° 14' 39.176" W	33° 54' 25.599" N
Lockw oods Folly Inlet - Waypoint 02	2016-09-06	2229833	58911	78° 14' 33.463" W	33° 54' 34.006" N
Lockw oods Folly Inlet - Waypoint 03	2016-09-06	2230485	59299	78° 14' 25.687" W	33° 54' 37.795" N
Lockw oods Folly Inlet - Waypoint 04	2016-09-06	2231235	60883	78° 14' 16.651" W	33° 54' 53.405" N
Lockw oods Folly Inlet - Waypoint 05	2016-09-06	2231346	62393	78° 14' 15.197" W	33° 55' 8.332" N
Lockw oods Folly Inlet - Waypoint 06	2016-09-06	2231245	62927	78° 14' 16.341" W	33° 55' 13.618" N

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
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7. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
8. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL

US Army Corps of Engineers
Wilmington District

SURVEYED BY: JBD, WJC
SURVEY DATE: 06 SEPTEMBER 2016
MAPPED: K7PDPSGD
MAP DATE: 08 SEPTEMBER 2016
MAP SCALE: 1:3,600
IMAGERY DATE: 3 JUNE 2016
MAP FILE NAME: IN_10_LFI_20160906.MXD

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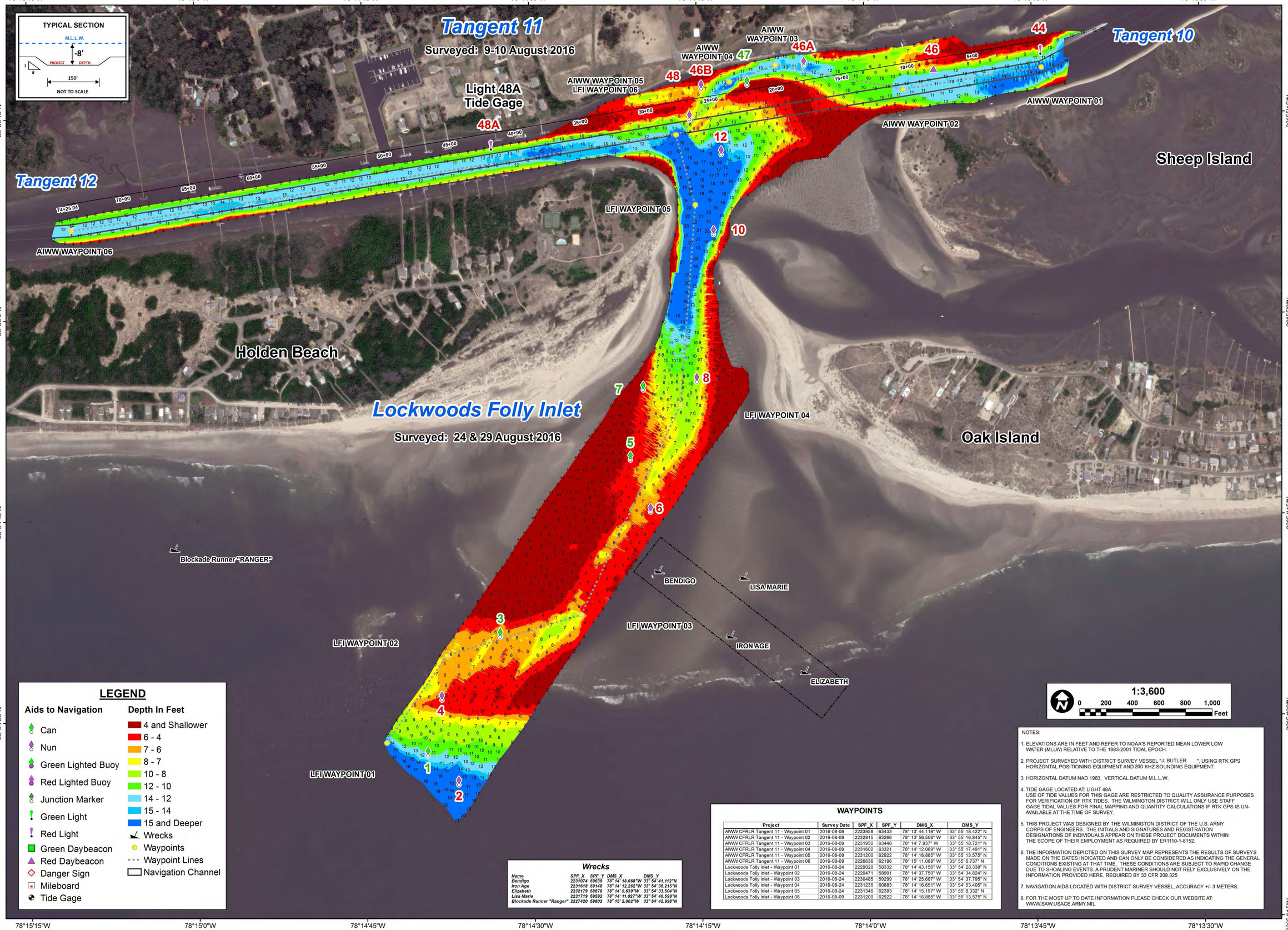
HYDROGRAPHIC SURVEY

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

Lockwoods Folly Inlet & AIWW Crossing

OAK ISLAND, NORTH CAROLINA



US Army Corps of Engineers
Wilmington District

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
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- 15 - 14
- 15 and Deeper
- Wrecks
- Waypoints
- Waypoint Lines
- Navigation Channel

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
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WAYPOINTS

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW CFRLR Tangent 11 - Waypoint 01	2016-08-09	2233958	63433	78° 13' 44.116" W	33° 55' 18.422" N
AIWW CFRLR Tangent 11 - Waypoint 02	2016-08-09	2232915	63266	78° 13' 56.506" W	33° 55' 16.845" N
AIWW CFRLR Tangent 11 - Waypoint 03	2016-08-09	2231950	63448	78° 14' 7.937" W	33° 55' 18.721" N
AIWW CFRLR Tangent 11 - Waypoint 04	2016-08-09	2231602	63321	78° 14' 12.069" W	33° 55' 17.491" N
AIWW CFRLR Tangent 11 - Waypoint 05	2016-08-09	2231200	62922	78° 14' 16.885" W	33° 55' 13.575" N
AIWW CFRLR Tangent 11 - Waypoint 06	2016-08-09	2226636	62196	78° 15' 11.088" W	33° 55' 6.737" N
Lockwoods Folly Inlet - Waypoint 01	2016-08-24	2228020	58332	78° 14' 43.156" W	33° 54' 28.338" N
Lockwoods Folly Inlet - Waypoint 02	2016-08-24	2229471	58991	78° 14' 37.750" W	33° 54' 34.824" N
Lockwoods Folly Inlet - Waypoint 03	2016-08-24	2230485	59299	78° 14' 25.687" W	33° 54' 37.795" N
Lockwoods Folly Inlet - Waypoint 04	2016-08-24	2231235	60883	78° 14' 16.651" W	33° 54' 53.405" N
Lockwoods Folly Inlet - Waypoint 05	2016-08-24	2231346	62393	78° 14' 15.197" W	33° 55' 8.332" N
Lockwoods Folly Inlet - Waypoint 06	2016-08-09	2231200	62922	78° 14' 16.885" W	33° 55' 13.575" N

NOTES:

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2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J. BUTLER ", 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
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SURVEYED BY: LMT, SRV
MAPPED: K7OPNSMG
SURVEY DATE: 9-10, 24 & 29 AUGUST 2016
MAP DATE: 30 AUGUST 2016
MAP SCALE: 1:3,600
IMAGERY DATE: 3 JUNE 2016
MAP FILE NAME: IN_10_LFI_20160824.MXD

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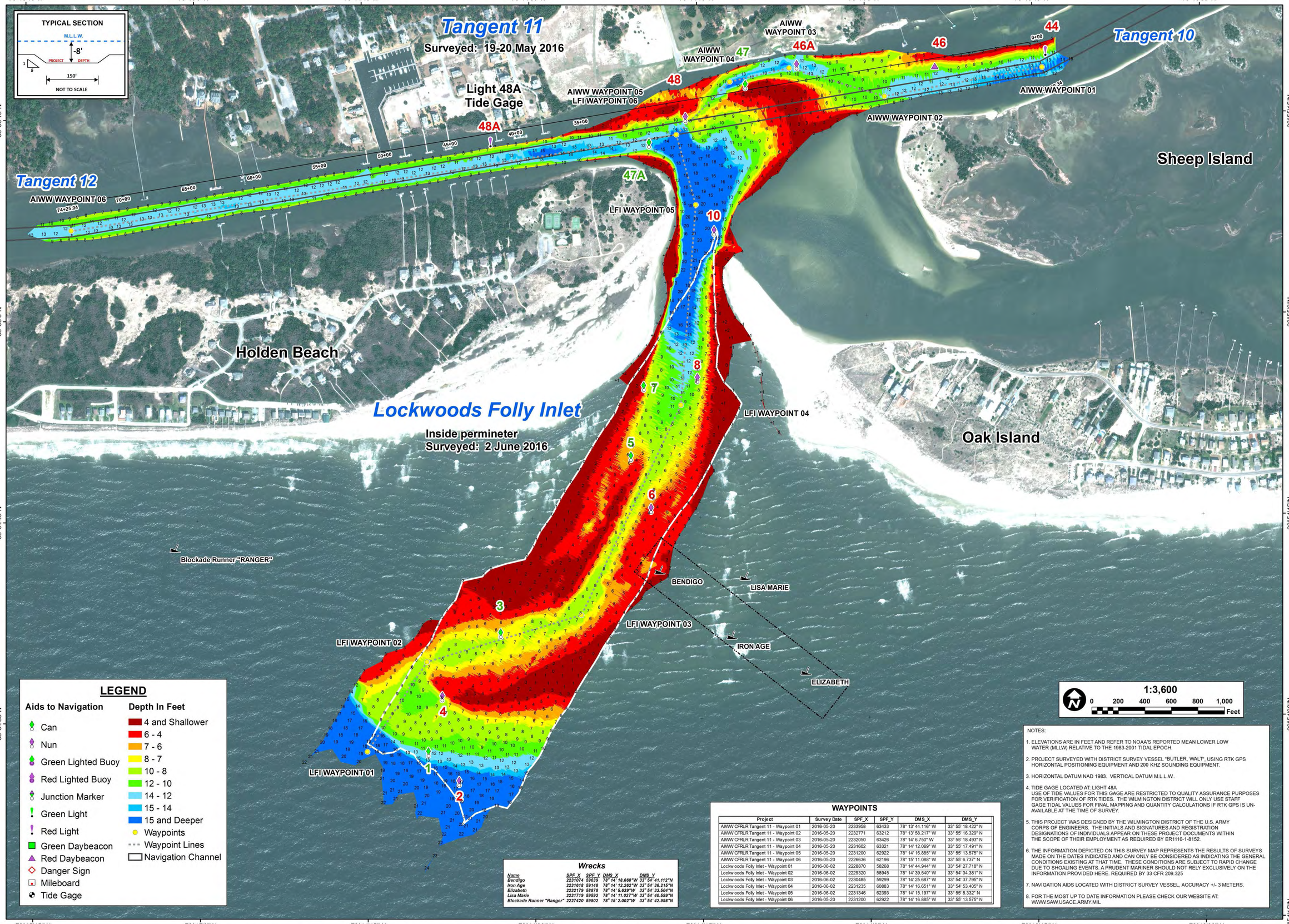
HYDROGRAPHIC SURVEY

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

Lockwoods Folly Inlet & AIWW Crossing

OAK ISLAND, NORTH CAROLINA



LEGEND

Aids to Navigation

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WAYPOINTS

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW CFRLR Tangent 11 - Waypoint 01	2016-05-20	2233958	63433	78° 13' 44.116" W	33° 55' 18.422" N
AIWW CFRLR Tangent 11 - Waypoint 02	2016-05-20	2232771	63212	78° 13' 58.217" W	33° 55' 16.329" N
AIWW CFRLR Tangent 11 - Waypoint 03	2016-05-20	2232050	63426	78° 14' 6.750" W	33° 55' 18.493" N
AIWW CFRLR Tangent 11 - Waypoint 04	2016-05-20	2231602	63321	78° 14' 12.069" W	33° 55' 17.491" N
AIWW CFRLR Tangent 11 - Waypoint 05	2016-05-20	2231200	62922	78° 14' 16.885" W	33° 55' 13.575" N
AIWW CFRLR Tangent 11 - Waypoint 06	2016-05-20	2226636	62196	78° 15' 11.088" W	33° 55' 6.737" N
Lockw oods Folly Inlet - Waypoint 01	2016-06-02	2228870	58268	78° 14' 44.944" W	33° 54' 27.718" N
Lockw oods Folly Inlet - Waypoint 02	2016-06-02	2229320	58945	78° 14' 39.540" W	33° 54' 34.381" N
Lockw oods Folly Inlet - Waypoint 03	2016-06-02	2230485	59299	78° 14' 25.687" W	33° 54' 37.795" N
Lockw oods Folly Inlet - Waypoint 04	2016-06-02	2231235	60883	78° 14' 16.651" W	33° 54' 53.405" N
Lockw oods Folly Inlet - Waypoint 05	2016-06-02	2231346	62393	78° 14' 15.197" W	33° 55' 8.332" N
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1:3,600

0 200 400 600 800 1,000 Feet

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5. 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.
6. 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
7. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
8. 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: 19-20 MAY & 2 JUNE, 2016
SURVEYED BY: LMT, WWW, JBD, WJC
MAP DATE: 03 JUNE 2016
MAPPED: K7PDPSGD
MAP SCALE: 1:3,600
IMAGERY DATE: 13 MARCH 2016
MAP FILE NAME: IN_10_LFI_20160602.MXD
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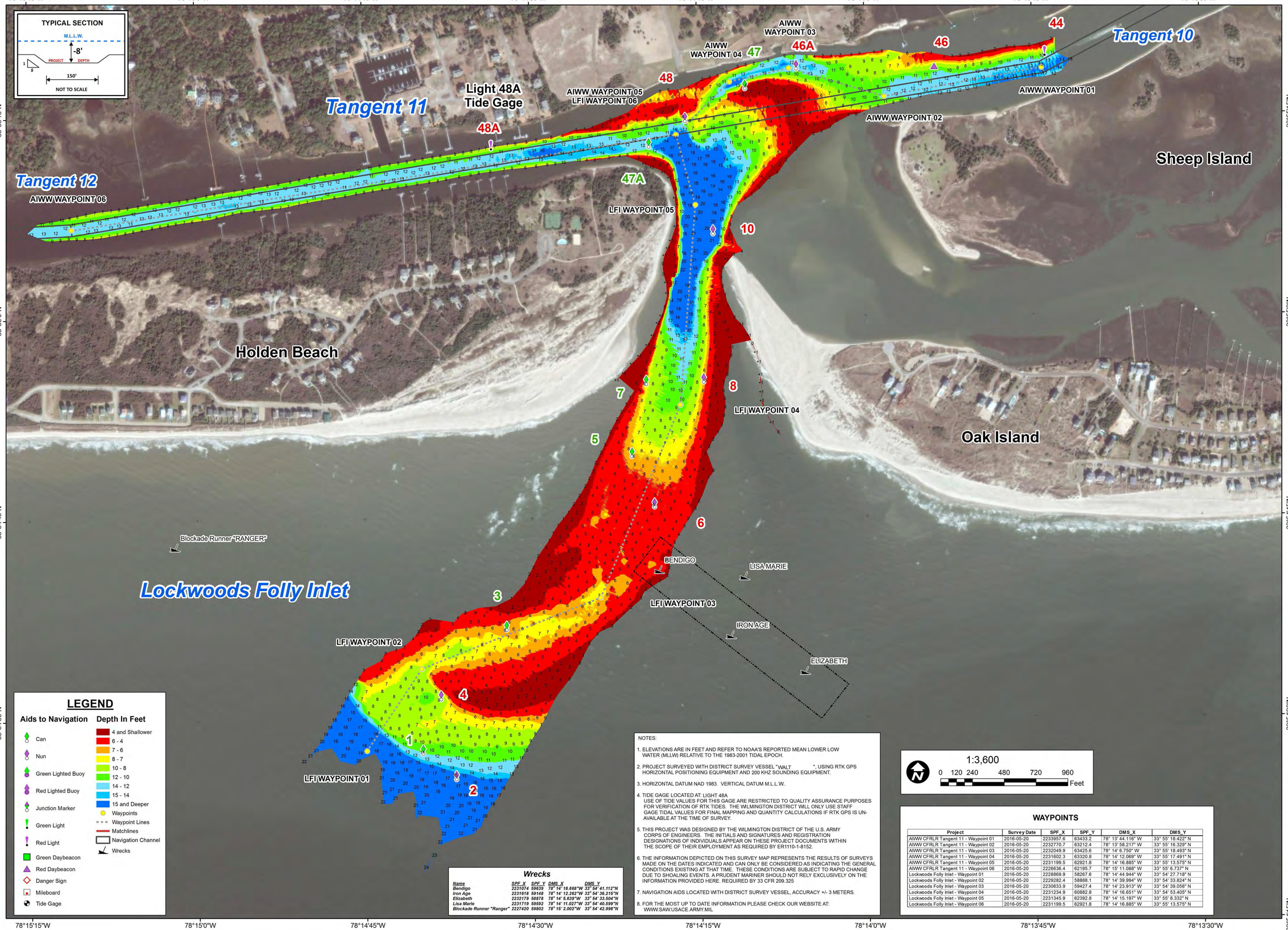
HYDROGRAPHIC SURVEY

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

Lockwoods Folly Inlet & AIWW Crossing

OAK ISLAND, NORTH CAROLINA



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
- Matchlines
- Navigation Channel
- Wrecks

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	2232179	58878	78° 14' 5.639"W	33° 54' 33.504"N
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

NOTES:

1. ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "WALT ", 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
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1:3,600

0 120 240 480 720 960 Feet

WAYPOINTS

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW CFRLR Tangent 11 - Waypoint 01	2016-05-20	2233957.6	63433.2	78° 13' 44.116" W	33° 55' 18.422" N
AIWW CFRLR Tangent 11 - Waypoint 02	2016-05-20	2232770.7	63212.4	78° 13' 58.217" W	33° 55' 16.329" N
AIWW CFRLR Tangent 11 - Waypoint 03	2016-05-20	2232049.9	63425.6	78° 14' 6.750" W	33° 55' 18.493" N
AIWW CFRLR Tangent 11 - Waypoint 04	2016-05-20	2231602.3	63320.8	78° 14' 12.069" W	33° 55' 17.491" N
AIWW CFRLR Tangent 11 - Waypoint 05	2016-05-20	2231199.5	62921.8	78° 14' 16.885" W	33° 55' 13.575" N
AIWW CFRLR Tangent 11 - Waypoint 06	2016-05-20	2226636.4	62195.7	78° 15' 11.088" W	33° 55' 6.737" N
Lockwoods Folly Inlet - Waypoint 01	2016-05-20	2228869.9	58267.6	78° 14' 44.944" W	33° 54' 27.718" N
Lockwoods Folly Inlet - Waypoint 02	2016-05-20	2229282.4	58888.1	78° 14' 39.994" W	33° 54' 33.824" N
Lockwoods Folly Inlet - Waypoint 03	2016-05-20	2230633.9	59427.4	78° 14' 23.913" W	33° 54' 39.056" N
Lockwoods Folly Inlet - Waypoint 04	2016-05-20	2231234.9	60882.8	78° 14' 16.651" W	33° 54' 53.405" N
Lockwoods Folly Inlet - Waypoint 05	2016-05-20	2231345.9	62392.8	78° 14' 15.197" W	33° 55' 8.332" N
Lockwoods Folly Inlet - Wayponit 06	2016-05-20	2231199.5	62921.8	78° 14' 16.885" W	33° 55' 13.575" N

US Army Corps of Engineers
Wilmington District

SURVEYED BY: LMT, WWW
SURVEY DATE: 19-20 MAY 2016
MAPPED: K7OPNSMG
MAP DATE: 23 MAY 2016
MAP SCALE: 1:3,600
IMAGERY DATE: 21 JANUARY 2016
MAP FILE NAME: IN_10_LFI_20160520.MXD

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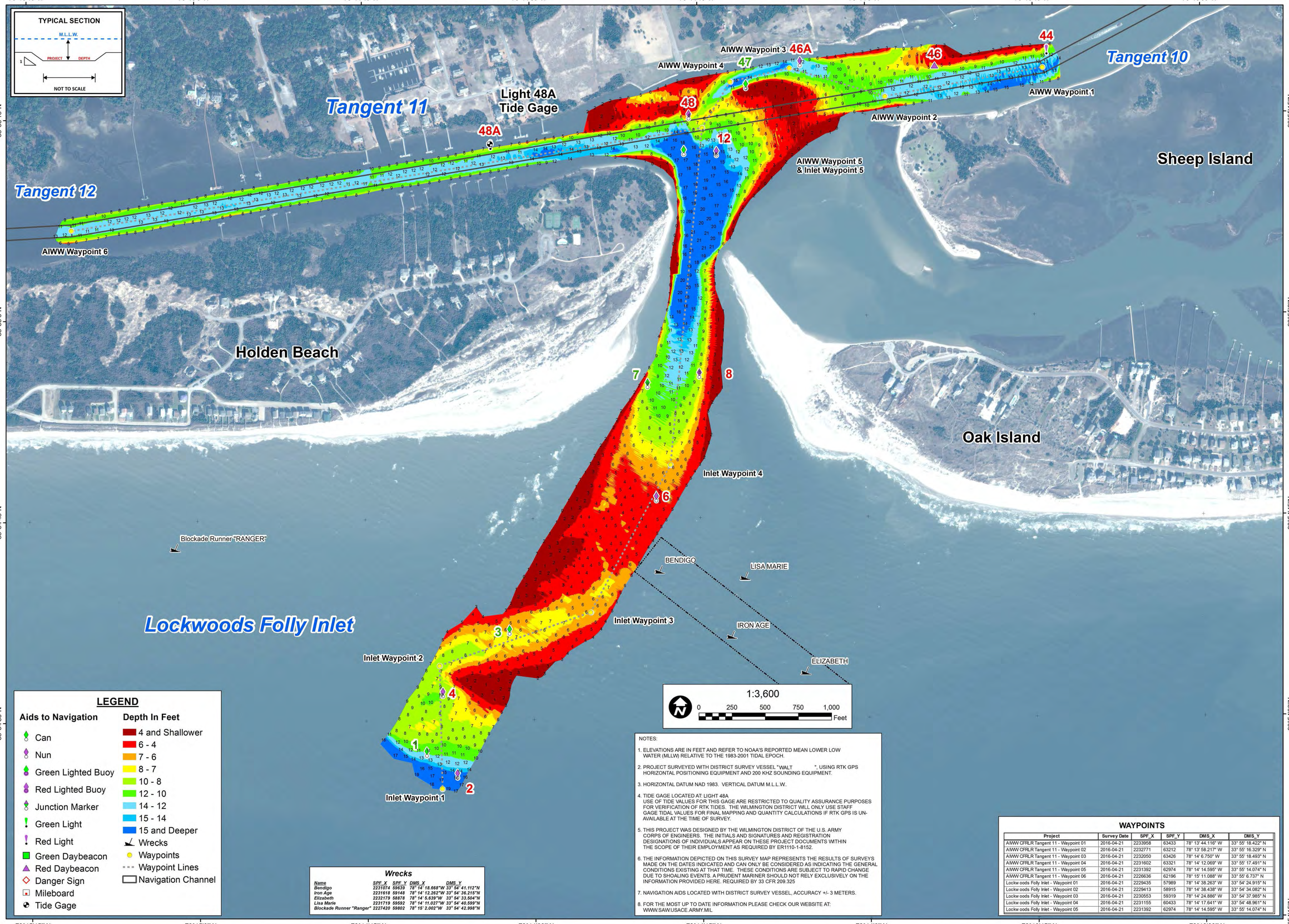
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

Lockwoods Folly Inlet & AIWW Crossing

OAK ISLAND, NORTH CAROLINA



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
- Wrecks
- Waypoints
- Waypoint Lines
- Navigation Channel

1:3,600

0 250 500 750 1,000 Feet

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	2232179	58878	78° 14' 5.639"W	33° 54' 33.504"N
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

NOTES:

1. ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "WALT ", 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 TIDAL VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UN-AVAILABLE AT THE TIME OF SURVEY.
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7. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
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WAYPOINTS

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW CFRLR Tangent 11 - Waypoint 01	2016-04-21	2233958	63433	78° 13' 44.116" W	33° 55' 18.422" N
AIWW CFRLR Tangent 11 - Waypoint 02	2016-04-21	2232771	63212	78° 13' 58.217" W	33° 55' 16.329" N
AIWW CFRLR Tangent 11 - Waypoint 03	2016-04-21	2232050	63426	78° 14' 6.750" W	33° 55' 18.493" N
AIWW CFRLR Tangent 11 - Waypoint 04	2016-04-21	2231602	63321	78° 14' 12.069" W	33° 55' 17.491" N
AIWW CFRLR Tangent 11 - Waypoint 05	2016-04-21	2231392	62974	78° 14' 14.595" W	33° 55' 14.074" N
AIWW CFRLR Tangent 11 - Waypoint 06	2016-04-21	2226636	62196	78° 15' 11.088" W	33° 55' 6.737" N
Lockw oods Folly Inlet - Waypoint 01	2016-04-21	2229435	57989	78° 14' 38.263" W	33° 54' 24.915" N
Lockw oods Folly Inlet - Waypoint 02	2016-04-21	2229413	58915	78° 14' 38.438" W	33° 54' 34.082" N
Lockw oods Folly Inlet - Waypoint 03	2016-04-21	2230553	59319	78° 14' 24.886" W	33° 54' 37.985" N
Lockw oods Folly Inlet - Waypoint 04	2016-04-21	2231155	60433	78° 14' 17.641" W	33° 54' 48.961" N
Lockw oods Folly Inlet - Waypoint 05	2016-04-21	2231392	62974	78° 14' 14.595" W	33° 55' 14.074" N

US Army Corps of Engineers
Wilmington District

SURVEY DATE: 21 APRIL 2016
SURVEYED BY: LMT, SRV
MAP DATE: 29 APRIL 2016
MAPPED: K7PDPSGD
MAP SCALE: 1:3,600
IMAGERY DATE: 29 JANUARY 2016
MAP FILE NAME: IN_10_LFI_20160421.MXD
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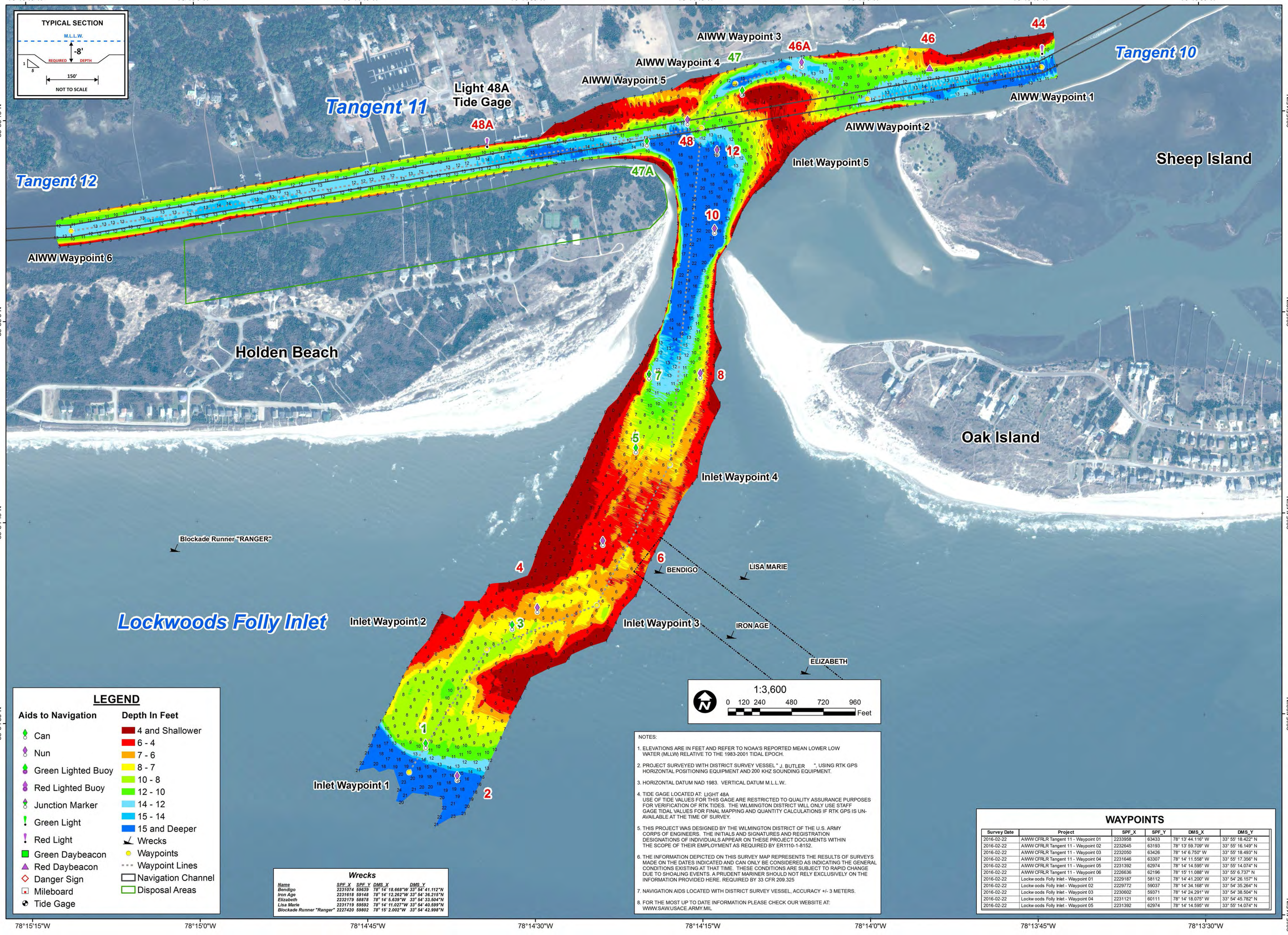
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

Lockwoods Folly Inlet & AIWW Crossing

OAK ISLAND, NORTH CAROLINA



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
- Wrecks
- Waypoints
- Waypoint Lines
- Navigation Channel
- Disposal Areas

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	2232179	58878	78° 14' 5.639"W	33° 54' 33.504"N
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WAYPOINTS

Survey Date	Project	SPF_X	SPF_Y	DMS_X	DMS_Y
2016-02-22	AIWW CFRLR Tangent 11 - Waypoint 01	2233958	63433	78° 13' 44.116" W	33° 55' 18.422" N
2016-02-22	AIWW CFRLR Tangent 11 - Waypoint 02	2232645	63193	78° 13' 59.709" W	33° 55' 16.149" N
2016-02-22	AIWW CFRLR Tangent 11 - Waypoint 03	2232050	63426	78° 14' 6.750" W	33° 55' 18.493" N
2016-02-22	AIWW CFRLR Tangent 11 - Waypoint 04	2231646	63307	78° 14' 11.558" W	33° 55' 17.356" N
2016-02-22	AIWW CFRLR Tangent 11 - Waypoint 05	2231392	62974	78° 14' 14.595" W	33° 55' 14.074" N
2016-02-22	AIWW CFRLR Tangent 11 - Waypoint 06	2226636	62196	78° 15' 11.088" W	33° 55' 6.737" N
2016-02-22	Lockw oods Folly Inlet - Waypoint 01	2229187	58112	78° 14' 41.200" W	33° 54' 26.157" N
2016-02-22	Lockw oods Folly Inlet - Waypoint 02	2229772	59037	78° 14' 34.168" W	33° 54' 35.264" N
2016-02-22	Lockw oods Folly Inlet - Waypoint 03	2230602	59371	78° 14' 24.291" W	33° 54' 38.504" N
2016-02-22	Lockw oods Folly Inlet - Waypoint 04	2231121	60111	78° 14' 18.075" W	33° 54' 45.782" N
2016-02-22	Lockw oods Folly Inlet - Waypoint 05	2231392	62974	78° 14' 14.595" W	33° 55' 14.074" N

US Army Corps of Engineers
Wilmington District

SURVEYED BY: MAS, WJC, WWW
SURVEY DATE: 22 FEBRUARY 2016
MAPPED: K7PDPSGD
MAP DATE: 24 FEBRUARY 2016
MAP SCALE: 1:3,600
IMAGERY DATE: 29 JANUARY 2016
MAP FILE NAME: IN_10_LFI_20160222.MXD

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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