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 "KNOWLTON & POTTER", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.

3. HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W..

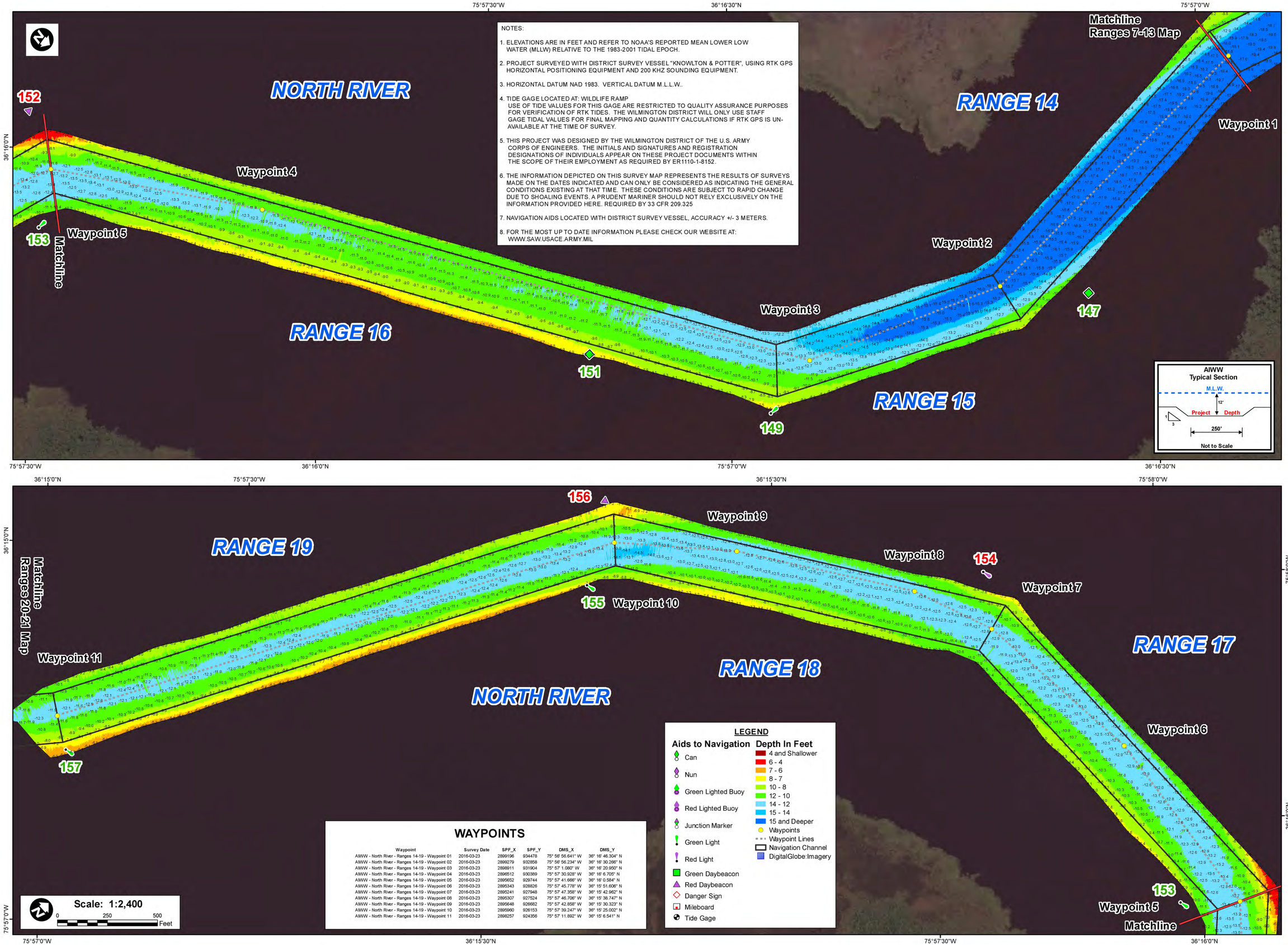
4. TIDE GAGE LOCATED AT: WILDLIFE RAMP
USE OF TIDE VALUES FOR THIS GAGE ARE RESTRICTED TO QUALITY ASSURANCE PURPOSES FOR VERIFICATION OF RTK TIDES. THE WILMINGTON DISTRICT WILL ONLY USE STAFF GAGE TIDAL VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UN-AVAILABLE AT THE TIME OF SURVEY.

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



WAYPOINTS

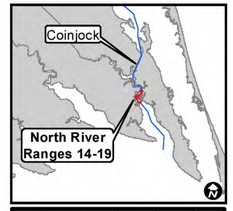
Waypoint	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW - North River - Ranges 14-19 - Waypoint 01	2016-03-23	2899196	934478	75° 56' 56.641" W	36° 16' 46.304" N
AIWW - North River - Ranges 14-19 - Waypoint 02	2016-03-23	2899279	932858	75° 56' 56.234" W	36° 16' 30.266" N
AIWW - North River - Ranges 14-19 - Waypoint 03	2016-03-23	2898811	931904	75° 57' 1.080" W	36° 16' 20.950" N
AIWW - North River - Ranges 14-19 - Waypoint 04	2016-03-23	2896512	930389	75° 57' 30.928" W	36° 16' 6.705" N
AIWW - North River - Ranges 14-19 - Waypoint 05	2016-03-23	2895652	929744	75° 57' 41.666" W	36° 16' 0.584" N
AIWW - North River - Ranges 14-19 - Waypoint 06	2016-03-23	2895343	928826	75° 57' 45.778" W	36° 15' 51.606" N
AIWW - North River - Ranges 14-19 - Waypoint 07	2016-03-23	2895241	927948	75° 57' 47.358" W	36° 15' 42.982" N
AIWW - North River - Ranges 14-19 - Waypoint 08	2016-03-23	2895307	927524	75° 57' 46.706" W	36° 15' 38.747" N
AIWW - North River - Ranges 14-19 - Waypoint 09	2016-03-23	2895648	926682	75° 57' 42.858" W	36° 15' 30.323" N
AIWW - North River - Ranges 14-19 - Waypoint 10	2016-03-23	2895960	926153	75° 57' 39.247" W	36° 15' 25.002" N
AIWW - North River - Ranges 14-19 - Waypoint 11	2016-03-23	2898257	924356	75° 57' 11.892" W	36° 15' 6.541" N

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
- DigitalGlobe:Imagery

US Army Corps of Engineers
Wilmington District



SURVEY DATE: 23 & 24 MARCH 2016
SURVEYED BY: BRJ, DCH
MAPPED BY: SMG
MAP DATE: 30 MARCH 2016
MAP SCALE: 1:2,400
IMAGERY DATE: 14 SEPTEMBER 2015
MAP FILE NAME: NORTHRIVER_R14-19_2016-03-23_CS.MXD

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HYDROGRAPHIC SURVEY

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

Atlantic Intracoastal Waterway
Norfolk to Beaufort

NORTH RIVER
RANGES 14 TO 19

Coinjock, North Carolina