

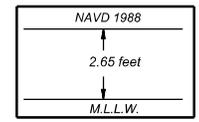
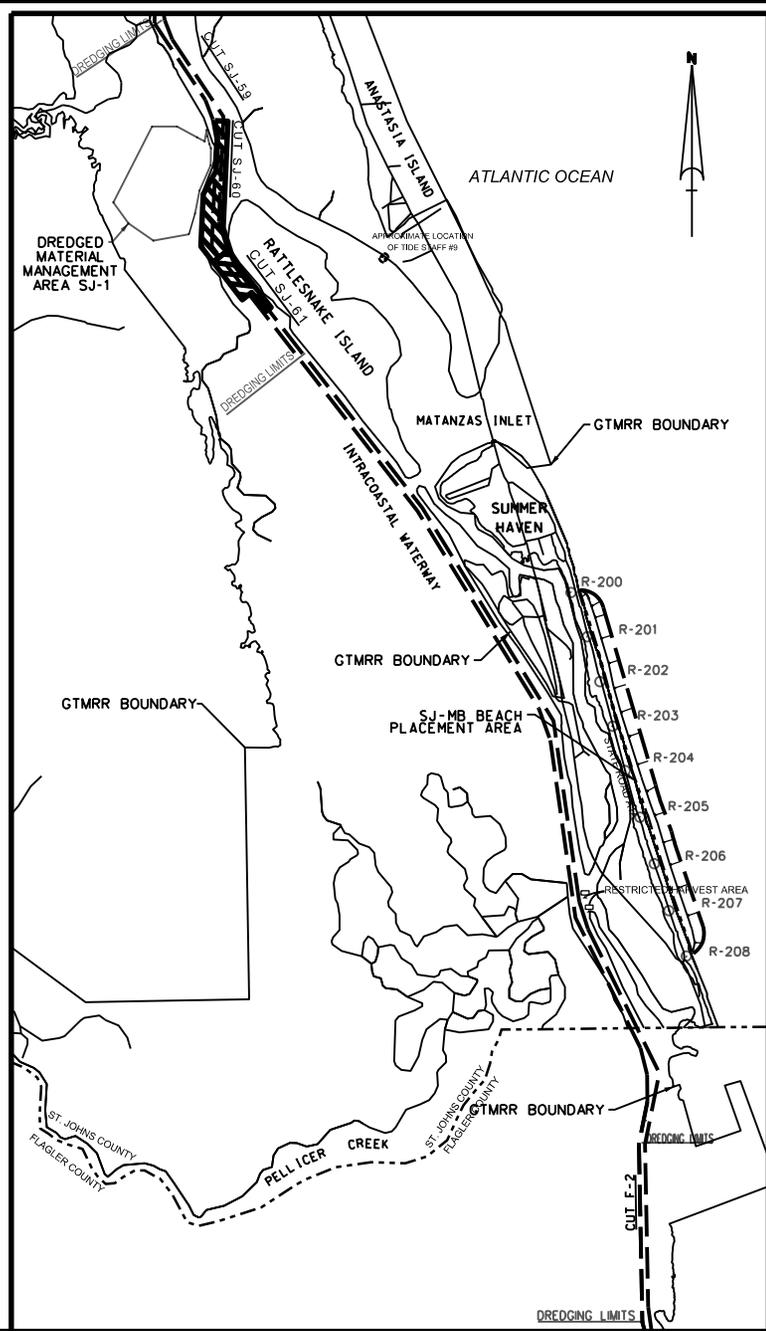
US Army Corps of Engineers Jacksonville District

JACKSONVILLE, FLORIDA
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
DEPARTMENT OF THE ARMY

INTRACOASTAL WATERWAY JACKSONVILLE TO MIAMI, FL
VICINITY OF MATANZAS INLET WITH BEACH PLACEMENT
LOCATION MAP

PREPARED BY: MLC
DATE: SEPTEMBER 2018

PLATE NO. 1/16

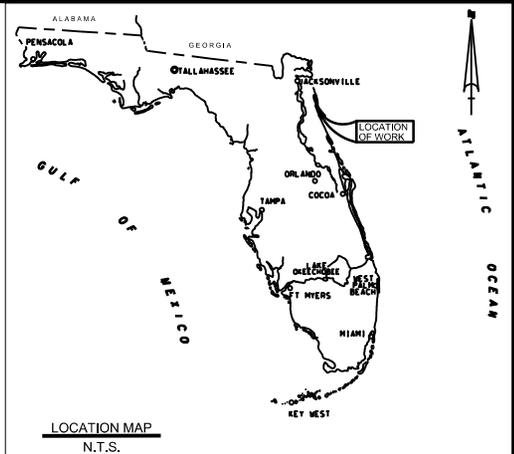


Relationship between NAVD 1988 and NOAA'S Mean Lower Low Water (1983-2001 Tidal Epoch)

SURVEY NOTES:

- REFER TO SURVEY NO. 09-119.
- ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.
- ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
- TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC GPS POSITIONING WITH A NAVD88/MLLW SEPARATION = -2.65'.
- PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
- ALL AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
- ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
- SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:
"REFERENCE BASE LOCATED AT "WSJ-224 1977"
LAT: 29°41'57.39845" N
LON: 081°13'52.01493" W
ELLIPSOID HEIGHT: -26.866'
NAVD88 ELEVATION: 6.26'
"TIDE STAFF ESTABLISHED FROM "WSJ-224 1977"
LAT: 29°41'57.39845" N
LON: 081°13'52.01493" W
ELLIPSOID HEIGHT: -26.866'
NAVD88 ELEVATION: 6.26'
- VERTICAL MEASUREMENTS WERE MADE USING AN ROSS SMARTSOUNDER DUAL FREQUENCY 28/200KHZ SINGLE-BEAM TRANSDUCER. SOUNDINGS SHOWN ARE IN HIGH FREQUENCY (200KHZ).
- AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. THIS CHART IS SOLELY FOR THE DISTRIBUTION OF AVAILABLE DEPTHS AT THE TIME OF THE SURVEY AND IS NOT TO BE USED FOR NAVIGATION.
- SURVEY ACCURACY PERFORMANCE STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYS, 1 JAN 02.

VESSEL	DATE OF SURVEY	CUT
WB-32	5-7 AUG 2009	SJ 59-61
WB-32	07 AUG 2009	F-1, F-2

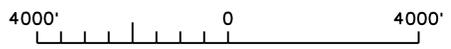


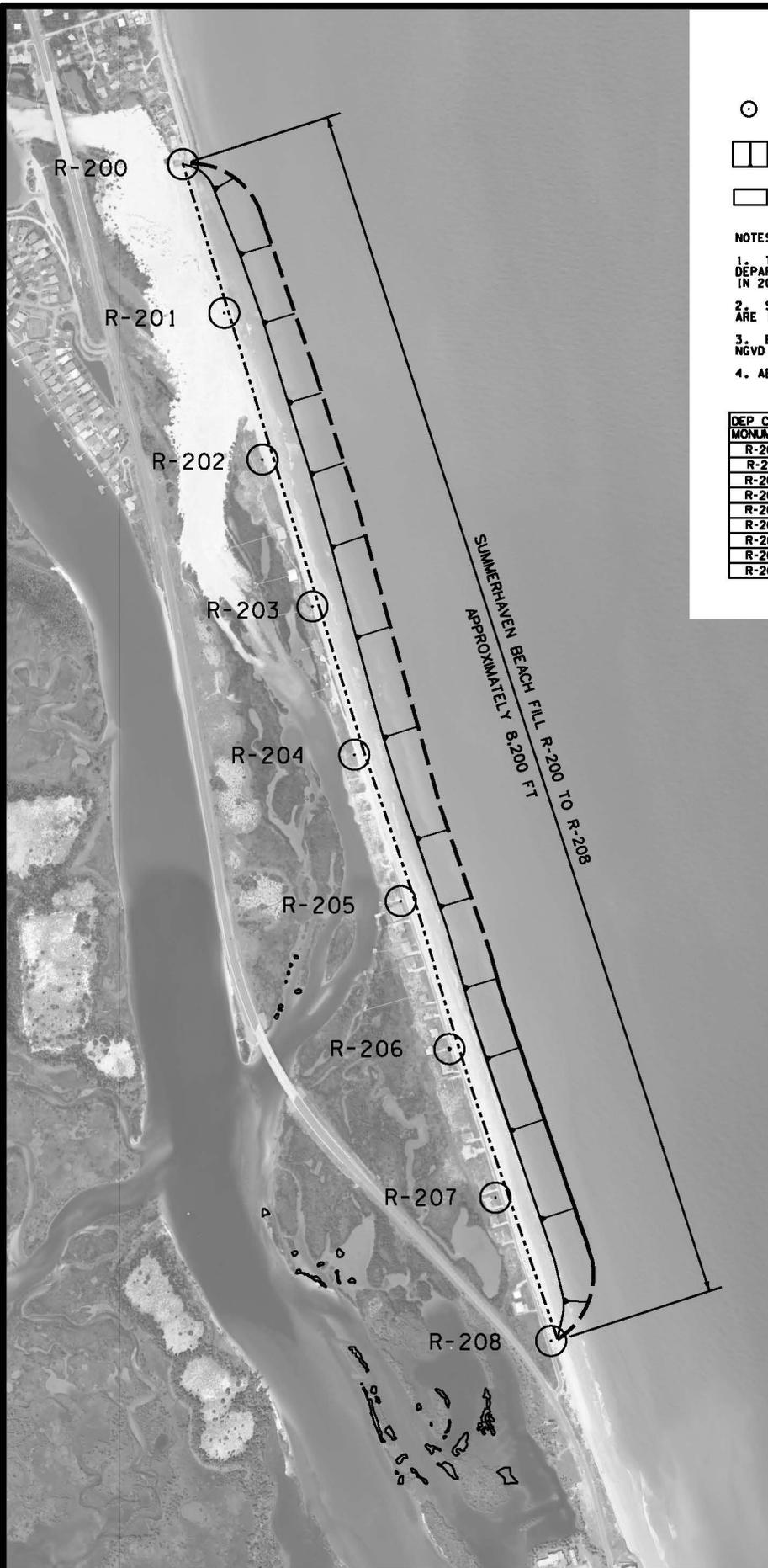
GENERAL NOTES:

- SALT MARSH BOUNDARY PROVIDED BY FWIC FISH AND WILDLIFE RESEARCH INSTITUTE DATA COLLECTED BETWEEN 1994 AND 2006.
- BEACH PROFILE DATA AND R-MONUMENT COORDINATES OF ST. JOHNS AND FLAGLER COUNTIES PROVIDED BY FDEP REGIONAL COASTAL MONITORING DATA.
- MHW COMPUTED FROM ST. AUGUSTINE BEACH TIDE GAUGE, STATION ID: 8720587, 1983-2001 EPOCH. ELEVATIONS COMPUTED FROM THE BENCH MARK AT THE STATION PID: A00346.
- OYSTER BOUNDARY PROVIDED BY GTMRR. THIS DATA IS A DRAFT AND NOT FINALIZED. THE DEPICTIONS OF THE OYSTER BOUNDARIES ARE FOR INFORMATIONAL PURPOSES ONLY.

LEGEND	
◦ BM	BENCHMARK
!	LIGHTED BEACON
■	GREEN DAYBEACON
▲	RED DAYBEACON
●	RED LIGHTED BUOY
●	GREEN LIGHTED BUOY
○	CAN BUOY
○	NUN BUOY
⊙	TIDE STAFF

LEGEND	
—	OYSTER BOUNDARY SHEETS 2-9
▨	SALT MARSH BOUNDARY SHEETS 2-9
○	DEP CONTROL MONUMENT





LEGEND

-  DEP CONTROL MONUMENT
-  BEACH FILL
-  OYSTER BOUNDARY

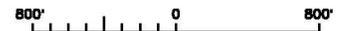
NOTES:

1. THE BEACH SURVEY WAS COMPLETED BY FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IN 2003
2. STATE PLANE COORDINATES SHOWN HEREON ARE IN FEET AND RELATIVE TO NAD 83
3. ELEVATIONS SHOWN HEREON ARE BASED ON NGVD 29
4. AERIAL DATE: 2014

DEP CONTROL MONUMENTS (NAD 83)		
MONUMENT	X	Y
R-200	585,423.7	1,949,506.3
R-201	585,698.6	1,948,519.3
R-202	585,951.5	1,947,547.2
R-203	586,283.6	1,946,573.2
R-204	586,557.2	1,945,584.2
R-205	586,876.8	1,944,605.5
R-206	587,188.0	1,943,631.0
R-207	587,493.8	1,942,645.2
R-208	587,862.8	1,941,694.2



GRAPHIC SCALE



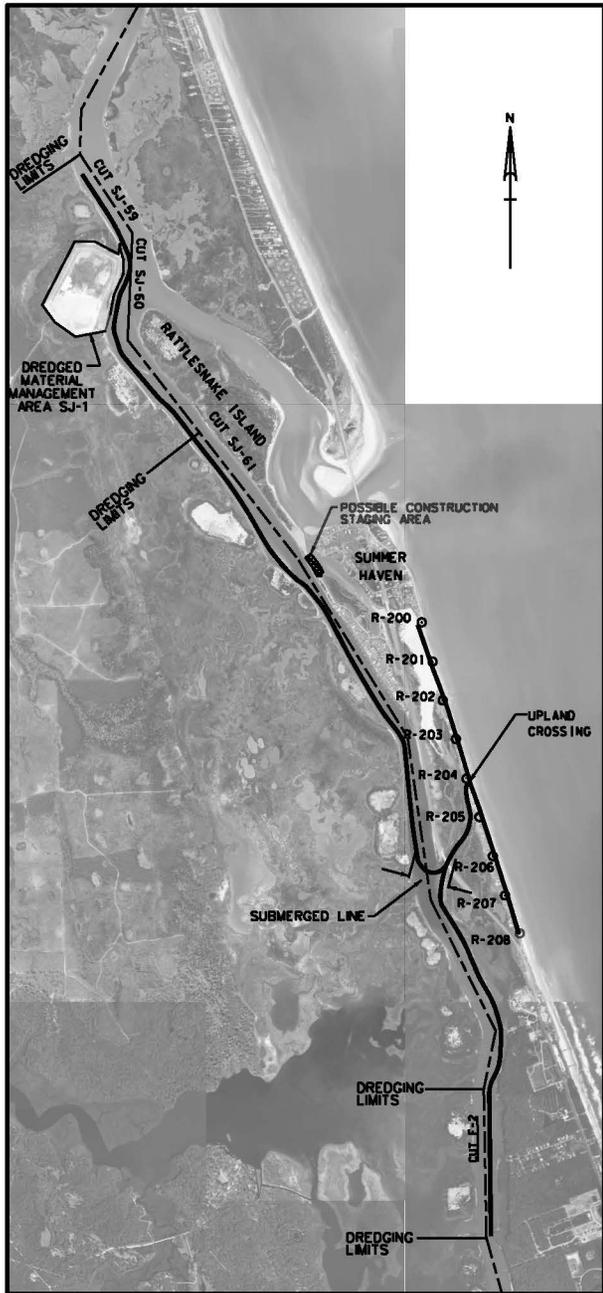
US Army Corps of Engineers
Jacksonville District

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INTRACOASTAL WATERWAY JACKSONVILLE TO MIAMI, FL
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PREPARED BY:
MLC
DATE:
SEPTEMBER 2018

PLATE NO.
12 OF 16

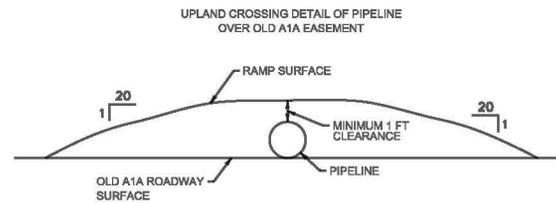


NOTES:

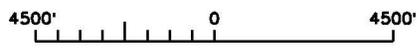
- 50 FOOT ACCESS (EXACT LOCATION) TO BE SHOWN TO THE CONTRACTOR, IN THE FIELD, BY THE CONTRACTING OFFICER'S REPRESENTATIVE
- CONTRACTOR WILL MINIMIZE ANY TEMPORARY IMPACT TO SALT MARSH OR OTHER NATURAL COMMUNITIES. PIPELINE ACCESS ROUTES AND STAGING AREAS WILL AVOID VEGETATION OR NATURAL GRADES.
- SPONSOR WILL OBTAIN PROOF OF LAND OWNERSHIP AND CONSENT TO USE PERMISSION OF LANDOWNERS AND STATE OF FLORIDA PRIOR TO CONSTRUCTION OF BEACH PLACEMENT
- PIPELINE WILL NOT BLOCK ACCESS FROM LANDOWNERS WHERE UPLAND CROSSING OCCURS. CONTRACTING OFFICER REPRESENTATIVE AND CONTRACTOR TO DETERMINE BEST METHOD OF ACCESS OVER PIPELINE FOR LANDOWNERS
- THE TYPE OF PIPELINE MATERIAL USED BY THE CONTRACTOR WILL DETERMINE IF PIPELINE WILL BE SUBMERGED OR FLOATED. PIPELINE WILL BE SUBMERGED WHERE NAVIGABLE ACCESS IS NEEDED FOR VESSEL OPERATORS.
- CONTRACTORS COMMONLY USE THE OLD A1A EASEMENT FOR STAGING EQUIPMENT AND PIPE. SPONSOR WILL OBTAIN LAND USE AGREEMENT OF STAGING AREA PRIOR TO CONSTRUCTION.
- CONTRACTORS WILL USE WATERS ADJACENT TO THE PIPELINE CORRIDOR FOR CONSTRUCTION TRANSIT AREAS.
- DMMA SJ-1 IS OWNED BY THE PROJECT SPONSOR, FIND, AND MAY BE USED AS A CONSTRUCTION STAGING AREA.
- AERIAL DATE: 2014

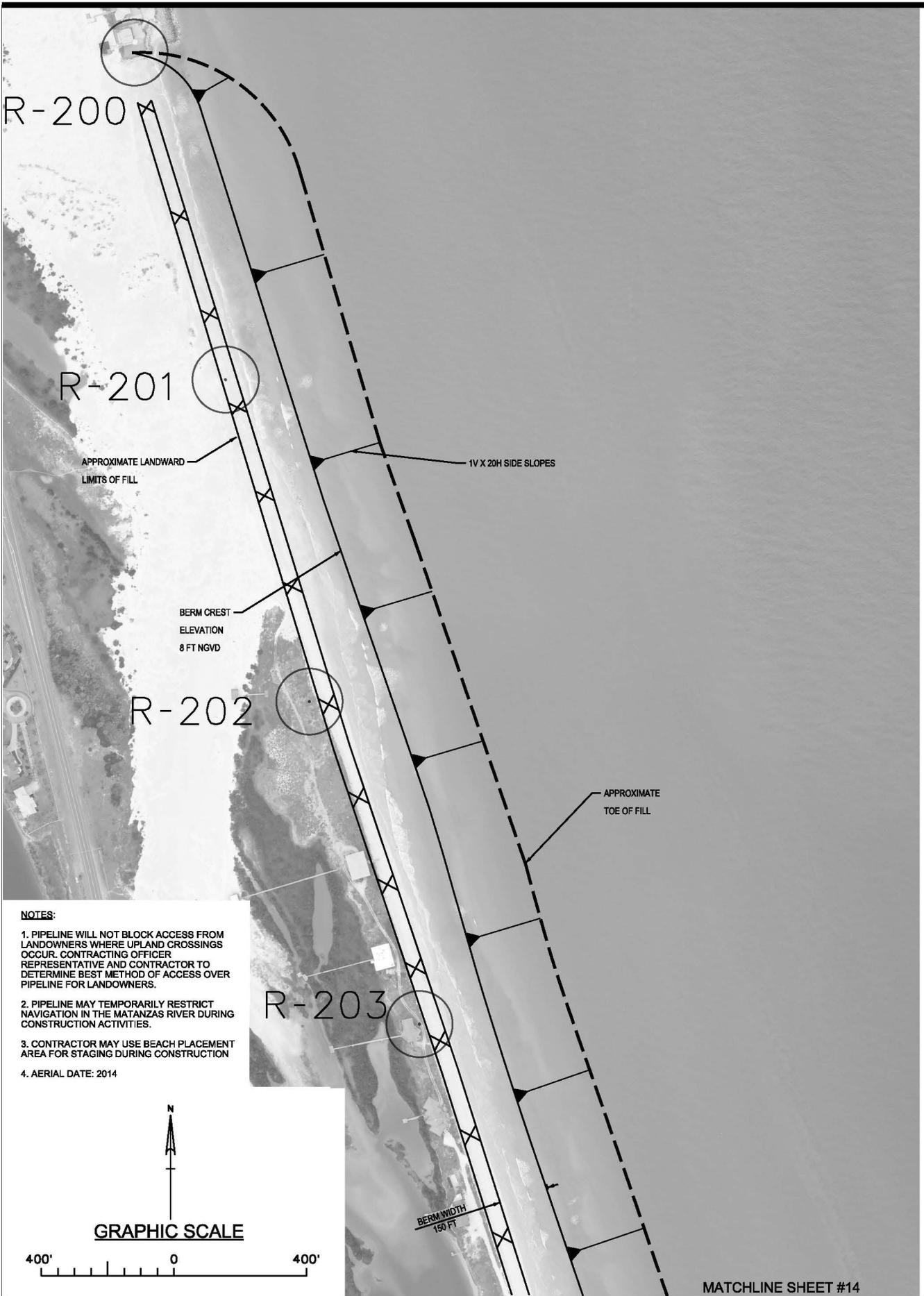
LEGEND:

-  PROPOSED PIPELINE ROUTE
-  FDEP R-MONUMENT
-  FEDERAL CHANNEL CENTERLINE



GRAPHIC SCALE





NOTES:

1. PIPELINE WILL NOT BLOCK ACCESS FROM LANDOWNERS WHERE UPLAND CROSSINGS OCCUR. CONTRACTING OFFICER REPRESENTATIVE AND CONTRACTOR TO DETERMINE BEST METHOD OF ACCESS OVER PIPELINE FOR LANDOWNERS.
2. PIPELINE MAY TEMPORARILY RESTRICT NAVIGATION IN THE MATANZAS RIVER DURING CONSTRUCTION ACTIVITIES.
3. CONTRACTOR MAY USE BEACH PLACEMENT AREA FOR STAGING DURING CONSTRUCTION
4. AERIAL DATE: 2014

MATCHLINE SHEET #14



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