



ATLANTIC INTRACOASTAL WATERWAY MAINTENANCE DREDGING NASSAU COUNTY REACH I, FLORIDA

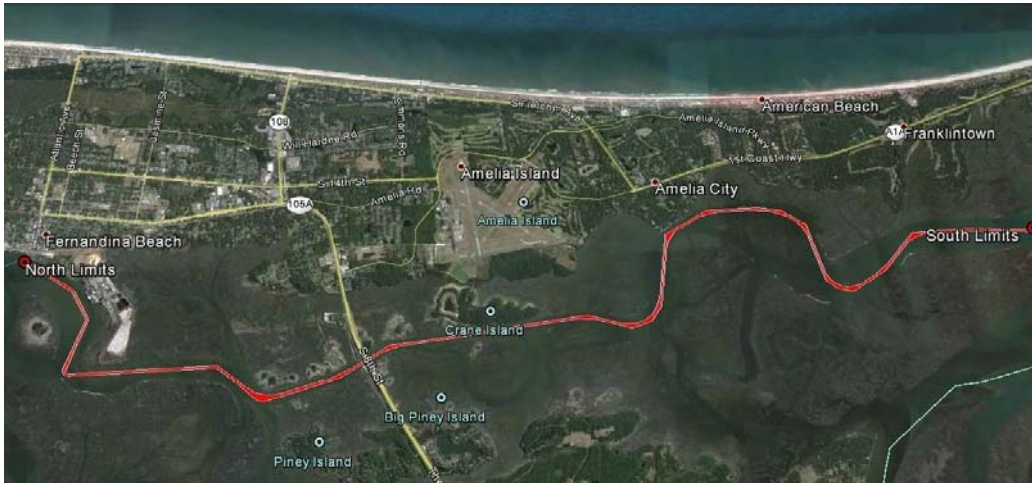
APPENDIX G

*Report of Investigation: Submerged Utility Location, Intracoastal
Waterway Cut-8 through Cut 27-D, Nassau County, Florida.*

Sea Diversified, December 2015

REPORT OF INVESTIGATION
SUBMERGED UTILITY LOCATION
Intracoastal Waterway Cut-8 through Cut-27D
Nassau County, Florida

December 15, 2015



Prepared for:

TAYLOR ENGINEERING INC



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TABLE OF CONTENTS

Introduction

Project Planning and Research of Available Utility Crossing Information

Field Data Collection

- Side Scan Sonar Survey
- Magnetometer Survey

Summary of Survey Results

Recommendations

Appendix A: Utility Coordination Inquiries and Responses

- Sunshine811 Design Ticket
- Florida Department of Environmental Protection (FDEP)
- AT&T
- City of Fernandina Beach Utilities
- Comcast Cable
- Florida Public Utilities Company (FPUC)
- Florida Power & Light (FPL)
- Jacksonville Electric Authority (JEA)
- Nassau-Amelia Utilities (NAU)
- TECO Energy

Appendix B: Chart Reductions

Appendix C: Magnetic Anomaly Locations



Introduction

Sea Diversified, Inc. (SDI) was retained by Taylor Engineering, Inc. on September 17, 2015 to conduct a submerged utility investigation of a portion of the Intracoastal Waterway (ICWW), in Nassau County, Florida. The limits of the investigation extended from the north end of Nassau Cut 8, in the vicinity of Fernandina Harbor Marina, following the ICWW centerline to the south end of Cut 27D, near the south end of Amelia Island. The investigation was conducted to assist with the planning and design of proposed dredging for the Fernandina Harbor Project (FHP) and Reach I of the ICWW.

The investigation included an initial desktop study to compile record documents or other information from utility companies and government agencies regarding known or expected utility crossings along the ICWW within the limits of the project. This task was followed by a field survey effort using remote sensing technology comprised of side scan sonar and magnetometer equipment, to verify the presence and to locate reported utility crossings that were identified from the initial research. The remote sensing survey was also conducted to determine the possible presence of other utilities not identified as part of the desktop study along with submerged obstructions and other features that could impact future dredging operations.

The investigation was divided into two (2) phases. The first phase included the aforementioned desktop study and remote sensing survey. This report has been prepared to summarize the results of this first phase of work. The second phase of work will include diver operations, as required to groundtruth and / or supplement the data obtained from the initial field survey effort. The need to conduct subsequent field survey operations will be discussed in the Final Results and Recommendations section of this report.

A summary of the first phase of the investigation is as follows:

Project Planning and Research of Available Utility Crossing Information

SDI conducted a desktop study to determine the extent and location of known utility crossings within the limits of the project. This included a formal request for utility as-built records from entities including but not limited to the following:

- AT&T
- City of Fernandina Beach
- Comcast Cable
- Florida Public Utilities Co
- Florida Power & Light (FP&L)
- Jacksonville Electric Authority (JEA)
- Nassau-Amelia Utilities
- TECO Energy

The following are the results of the research and inquiries:

- AT&T responded on or about November 11, 2015 indicating there is a 60PR cable and fiber-optic cable attached to the S. 8th St. / S.R.200 / Hwy A1A bridge crossing the ICWW. Based on the limited as-built information provided by AT&T, it appears that there are existing submerged duct banks remaining from abandoned / damaged cables that cross the ICWW in the vicinity of the bridge. Per discussions with Marvin Fisher (mf9438@att.com) with AT&T, they have inactive copper cable crossings along the north side of the bridge that were damaged during dredge activities in 2010. All AT&T cables converge at a manhole on the north side of the bridge. Marvin Fisher (AT&T) indicated that AT&T would be interested in maintaining the inactive duct banks for future use, and requested that his information be noted for coordination prior to any dredging activities or planning.

- The City of Fernandina Beach responded on October 22, 2015 indicating that the City does not have any water or sewer facilities in the vicinity of the ICWW project area.
- Comcast Cable responded on October 22, 2015 with a sketch aerial reporting a CATV/Fiber-Optic cable (possible directionally bored) along the north side of the S. 8th St. / S.R.200 / Hwy A1A bridge. As-built information or charts were requested but apparently not available due to the age of the project, over 25-years ago. Comcast reported, “large vaults on each side (of the ICWW) approximately 150-feet from each bank”.
- Florida Public Utilities Company (FPUC) responded on December 2, 2015 indicating that FPUC does not have any submerged/underground utilities within the ICWW project area. FPUC noted that they “do have a 138kV double circuit overhead transmission line that crosses the ICWW just south of the SR200 Bridge”. It was recommended that this overhead line be noted on future dredge or construction plans if possibly affected by the size and height of proposed floating equipment to be used by contractors. Low wire elevations were not provided by FPUC.
- Florida Power and Light (FP&L) responded on October 23, 2015 and indicated that FP&L does not have any utilities within the project area.
- Jacksonville Electric Authority (JEA) responded on October 23, 2015 and indicated that JEA does not have any utilities within the project area.
- Nassau-Amelia Utilities / Nassau County responded on October 23, 2015 reporting that Nassau-Amelia Utilities does not have any utilities within the project area
- Teco Energy responded on October 29, 2015 indicating that they have one (1) buried twelve-inch (12”) steel natural gas pipeline along the south side of the S. 8th St. / S.R.200 / Hwy A1A bridge. Florida Department of Environmental Protection (FDEP) Division of State Lands confirmed a reported easement (Easement 41443) along the south side of the bridge, just south of the bridge fender system. A copy of this Easement document is included as part of this report and graphically depicted on charts accompanying this report.

In summary, based upon our research it is apparent that record utility crossings of interest include a Comcast CATV/fiber-optic cable and a 12-inch natural gas pipeline, all reportedly crossing the ICWW in the same general area of the S. 8th St. / S.R.200 / Hwy A1A bridge crossing the ICWW, located approximately 1.2 miles northwest of Fernandina Beach Municipal Airport on US Highway 1. AT&T reported a damaged/abandoned utility that once crossed the ICWW, but no records have been provided detailing the reported abandoned duct-bank crossing remaining in place. Copies of the above referenced correspondence have been attached and made part of this report. **Reference Appendix A.** Pertinent information was imported to field survey base sheets or noted as necessary for reference during the course of field data collection activities.

Field Data Collection

Field data collection was performed with the objective to verify the presence of known utility crossings and to determine the possible presence of other utility crossings that may not have been revealed during the initial research task. It was also the objective of this task to identify other potential submerged obstructions that may cause conflict with the proposed dredging operations. Field data collection activities included a side scan sonar and magnetometer investigation to map both exposed features lying on the waterway bottom and exposed or buried features with ferrous composition that may be indicative of an armored cable / pipeline crossing, or other feature of potential significance to the proposed dredging operations.



The survey was conducted from November 17 – 20, 2015 using a 26-foot enclosed cabin survey launch equipped with side scan sonar, magnetometer and positioning equipment. Navigation was provided by Coastal Oceanographic's Hypack software. As per the scope of survey developed by Taylor Engineering, data was collected along the ICWW centerline and along transects established parallel to the centerline at 50, 100 and 200 feet either side of the centerline. Simultaneous side scan sonar and magnetometer data were collected to maximize efficiency of the data collection effort. All data was collected in U.S. feet relative to the Florida State Plane Coordinate System, East Zone, North American Datum (NAD), 1983. SDI personnel were assisted by a representative of Sonographics, Inc., during the remote sensing data collection, processing and interpretation of results. A description of the remote sensing operations is as follows:

Side Scan Sonar Survey

A side scan sonar survey was conducted to identify and map exposed features lying on the bottom with specific attention to apparent submerged cables, pipelines, other utilities or possible obstructions. The survey was conducted using an Edgetech, Model 4125, fully digital, high-resolution (600 / 1600 kHz) side scan sonar data acquisition system. The 4125 utilizes full spectrum CHIRP technology for superior resolution. Positioning was provided via integrated Trimble SPS351 DGPS / Beacon Receiver. Data was collected along the prescribed transect intervals with range settings set to achieve full bottom coverage of the proposed survey area with no less than 50% overlap between adjacent lines. Data was captured in a georeferenced, digital environment allowing the operator to interpret and classify objects real-time during the course of the survey.



Upon completion of the field survey, digital images were translated to a fully georeferenced mosaic utilizing Chesapeake SonarWizMap software, which were exported as Geo-Tif images for interpretation and charting. The Geo-Tif images were superimposed on aerial base maps with the ICWW channel depicted for reference.

Magnetometer Survey

Magnetometer data was collected to identify ferrous items lying on or buried within the sediments. A magnetometer is commonly used for the detection and mapping of submerged pipelines or cables especially if buried, as typical, and not readily detectable from the side scan sonar survey. The survey was conducted using a Geometrics 882L Cesium Vapor Magnetometer with positioning provided via integrated Trimble SPS351 DGPS / Beacon Receiver. Magnetometer data was collected along the prescribed transects with the towfish near the water surface at a range of approximately 70 to 135 feet aft of the vessel.



Magnetometer raw data files were imported to an editor and analyzed in profile view to detect and record anomalies. Significant anomalies were exported as targets, plotted in plan view and analyzed with the intent to identify continuous target patterns characteristic of submerged utilities. Targets were additionally superimposed on side scan sonar imagery to determine whether target strings or isolated targets may assist in characterizing features detected from the side scan sonar survey. A tabulation of anomaly position (X-Y SPCS) and magnetic intensity (gammas) and made part of this report. Reference Appendix C..

Chart Deliverables

Charts pertaining to the described field survey efforts were prepared in MicroStation (.dgn) format and subsequently translated to AutoCAD (.dwg) format for final submittal to Taylor Engineering. The charts included aerial-based maps with side scan sonar mosaics and magnetic anomalies superimposed. The ICWW channel was depicted to show bottom features mapped from the side scan survey and location of magnetic anomalies relative to the limits of the channel and possible future dredge areas. Charts were provided in hardcopy (24"x36") format and electronically in both CADD (AutoCAD, .dwg) and Adobe (.pdf) formats. Side scan sonar data files (Geo-Tif's) and magnetic target files (ASCII format) were also provided to the client.

Summary of Survey Results

Based on SDI's research of existing utility crossing information followed by the field data collection efforts, there is an area of reported utility crossings along the north and the south side of the S. 8th St. / S.R.200 / Hwy A1A bridge. Reference **Figure 1** for an aerial depiction of this area of interest. At this location, there are reported utility crossings comprised of the following:

- 12-inch TECO Energy steel pipeline for natural gas
- Comcast CATV/Fiber-Optic cable
- AT&T inactive duct bank



Figure 1 - Aerial Exhibit
Area of Interest
Located Adjacent to S. 8th St. / S.R.200 / Hwy A1A Bridge

The 12-inch natural gas pipeline, extends parallel with the S. 8th St. / S.R.200 / Hwy A1A bridge located on the south side of the bridge. No detailed drawings or asbuilt records were available. An

easement issued by the State of Florida that extends across the waterway at this location provides evidence of the apparent pipeline crossing.

The CATV/Fiber-Optic cable is reported to be located parallel with the S. 8th St. / S.R.200 / Hwy A1A bridge, along the north side of the bridge. The cable reportedly extends between large vaults located on either sides of the waterway and may be directionally bored. Reference **Appendix A** for the aerial map provided by Comcast. No detailed drawings or asbuilt records were available

In the area of the reported 12-inch natural gas pipeline, side scan sonar data detected evidence of a possible utility located just southeast and parallel to the S. 8th St. / S.R.200 / Hwy A1A bridge. Data depicts a reflector crossing the waterway with a second similar reflector paralleling slightly to the south part way across the waterway. These reflectors fall in close proximity to the gas pipeline crossing reported by TECO Energy and fall in proximity to the easement issued by the State. Northeast of these reflectors in close proximity to the bridge is a feature representative of another possible submerged utility. Reference **Figure 2** for a clip of the side scan sonar mosaic of this area highlighting the possible submerged utilities. It is noted that magnetometer data did not depict a string of targets to support the possible presence of a utilities at this location, however it is probable that the close proximity to the bridge affected the magnetometer results.

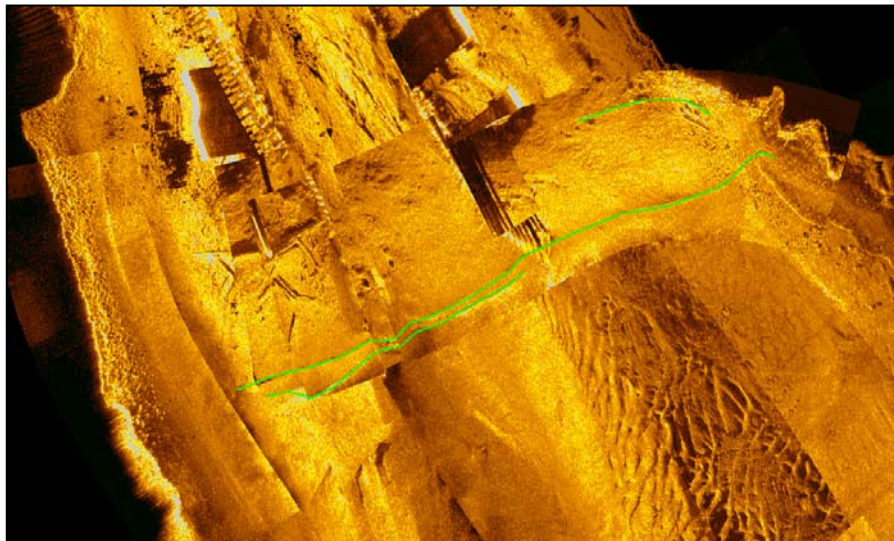


Figure 2
Highlighted Features in Vicinity of Reported Gas Pipeline

In the area of the reported CATV/Fiber-Optic cable, along the north side of the S. 8th St. / S.R.200 / Hwy A1A bridge and south of the adjacent railroad bridge, side scan sonar detected possible utilities at both sides of the ICWW channel. It is noted, however that the side scan data did detect the presence of apparent submerged pilings, logs and other debris, which could have similar characteristics of an exposed utility. Diver verification would be necessary to determine whether these reflectors were that of an exposed utility or piling debris. Reference **Figure 3** for a clip of the side scan sonar mosaic of this area highlighting the features of interest. Magnetometer survey results did not provided any evidence a submerged utility crossing in this area.

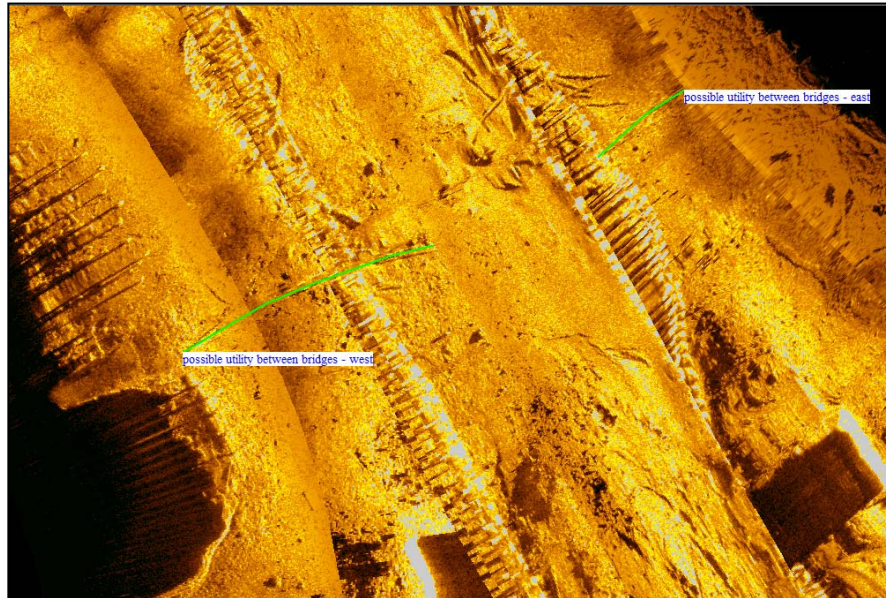


Figure 3
Highlighted Features in Vicinity of Reported CATV/Fiber-Optic Cable

Another possible utility or manmade feature was detected in the vicinity of Cut-11 & Cut-B. There were no reported utilities in this area based on the results of the initial desktop study. Side scan sonar data detected an apparent pipeline with the exposed underwater portion being approximately 400 feet in length extending from above water at the shoreline northeasterly into the waterway. Visual evidence indicate the pipe to be steel. Based on side scan sonar imagery, the pipeline did not extend across the entire waterway. Magnetometer data did support the presence of a submerged pipeline. It is apparent that the steel pipeline could be an abandoned, partially removed utility or possibly a section of dredge pipe. Reference **Figure 4** for a clip of the side scan sonar mosaic of this area highlighting the feature of interest.

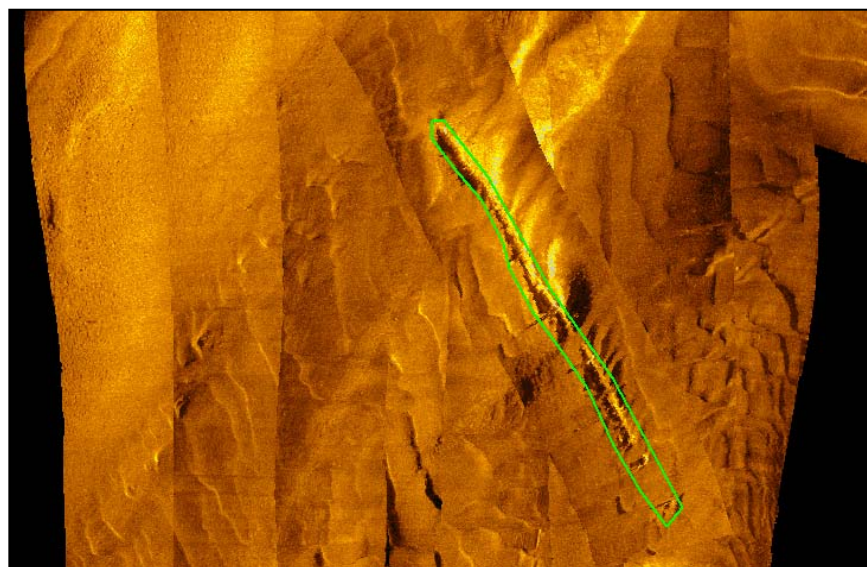


Figure 4
Feature of Interest in Vicinity of Cut-11 and Cut-B



Remote sensing data for the remaining areas of the ICWW did not depict features or magnetic anomalies characteristic of a subaqueous utility crossing. It should be understood that the results of this survey are an interpretation of remote sensing data and should not be relied upon as positive confirmation of submerged or buried utilities. Groundtruthing, discussed below, is typically necessary to classify features detected from remote sensing operations and to determine the feature's precise horizontal and vertical locations. Additionally, buried utilities or other features, manmade or natural, that are not ferrous in composition, cannot be detected through side scan sonar or magnetometer investigations. This would include non-armored cables, PVC or HDPE pipelines or similar utility types. Results of this investigation are solely based on the capabilities of the equipment utilized taking into consideration their inherent limitations. Reported results and other data provided herein, is also based on the accuracy of the information provided by the noted utility companies and other entities contacted as part of the investigation.

Recommendations

The objective of this investigation was to identify the presence or absence of utility crossings within the prescribed reach of the ICWW, specifically Cut 8 through Cut 27D in Nassau County, and if present determine the precise horizontal location of the utility as it relates to the proposed dredging project. Based on information obtained through research and contacts with utility companies and government agencies, it was determined that there is an active natural gas pipeline and a cable that crosses the ICWW in proximity to the S. 8th St. / S.R.200 / Hwy A1A Bridge. AT&T duct banks formerly routing cables across the waterway may also be present in the same area of the other reported utility crossings.

Remote sensing operations detected apparent evidence of these utilities, however due to the aforementioned inherent limitations regarding these technologies, exact confirmation of the utility presence, type, size and horizontal / vertical location is not practical. To accurately classify these features detected from the remote sensing operations and determine the exact location would require additional field data collection. If these crossings are deemed important to the project, it is recommended that a dive team be deployed in the area of the reported utilities with the objective to electronically track and subsequently expose, identify and map their horizontal and vertical location. Regarding other features and magnetic anomalies encountered during the remote sensing operations, additional diver groundtruthing may be warranted depending on the apparent size or gamma intensity of the feature and proximity to the project area. The scope of work associated with this additional diver groundtruthing shall subject to further discussions.



Appendix A

Utility Coordination Inquiries and Responses

Sunshine811 Design Ticket
Florida Department of Environmental Protection (FDEP)
AT&T
City of Fernandina Beach Utilities
Comcast Cable
Florida Public Utilities Company (FPUC)
Florida Power & Light (FPL)
Jacksonville Electric Authority (JEA)
Nassau-Amelia Utilities (NAU)
TECO Energy



Survey Report
Intracoastal Waterway (ICW) Nassau Cut-8 to Cut 27D
Hydrographic Survey - Submerged Utility Location
January 6, 2016

Sunshine811 Design Ticket

SUNSHINE 811
DESIGN TICKET

Mike Donovan

From: irth_host@callsunshine.com
Sent: Thursday, October 22, 2015 11:51 AM
To: Mike Donovan
Subject: SSOCOF CONFRM 2015/10/22 #00000 295504677-000 NORM DSGN NEW

CONFRM 00000 CALL SUNSHINE 10/22/15 11:51:10ET 295504677-000 DESIGN GRID
Ticket : 295504677 Rev:000 Taken: 10/22/15 11:20ET

State: FL Cnty: NASSAU GeoPlace: FERNANDINA BEACH
CallerPlace: FERNANDINA BEACH
Subdivision:

Address :
Street : COAST HWY
Cross 1 : MARSH POINT RD
Within 1/4 mile: Y

Locat: FROM THE INTERSECTION OF COAST HWY (A1A) AND MARSH POINT RD, GO WEST
APPROXIMATELY 6,000-FEET TO THE WATER'S EDGE OF THE INTRACOASTAL WATERWAY
(ICWW). AT THIS POINT CREATE DESIGN TICKET FOR 300-FEET EAST AND WEST OF THE
CENTERLINE OF THE ICWW, PROCEEDING 60,000-FEET NORTH TO WATERWAY 200-FEET WEST
OF INTERSECTION AT CENTRE ST AND S. FRONT STREET

:

Remarks : IN RESPONSE TO RECEIPT OF A DESIGN TICKET, SSOCOF PROVIDES THE
ORIGINATOR OF THE DESIGN TICKET WITH A LIST OF SSOCOF MEMBERS IN THE
VICINITY OF THE DESIGN PROJECT. SSOCOF DOES NOT NOTIFY SSOCOF MEMBERS OF
THE RECEIPT BY SSOCOF OF A DESIGN TICKET. IT IS THE SOLE RESPONSIBILITY
OF THE DESIGN ENGINEER TO CONTACT SSOCOF MEMBERS TO REQUEST INFORMATION
ABOUT THE LOCATION OF SSOCOF MEMBERS' UNDERGROUND FACILITIES. SUBMISSION
OF A DESIGN TICKET WILL NOT SATISFY THE REQUIREMENT OF CHAPTER 556,
FLORIDA STATUTES, TO NOTIFY SSOCOF OF AN INTENT TO EXCAVATE OR DEMOLISH.
THAT INTENT MUST BE MADE KNOWN SPECIFICALLY TO SSOCOF IN THE MANNER
REQUIRED BY LAW. IN AN EFFORT TO SAVE TIME ON FUTURE CALLS, SAVE YOUR
DESIGN TICKET NUMBER IF YOU INTEND TO BEGIN EXCAVATION WITHIN 90 DAYS OF
YOUR DESIGN REQUEST. THE DESIGN TICKET CAN BE REFERENCED , AND THE
INFORMATION ON IT CAN BE USED TO SAVE TIME WHEN YOU CALL IN THE EXCAVATION
REQUEST.

*** LOOKUP BY MANUAL ***

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Grids : 3032A8127A 3032A8128D 3032B8127A 3032B8128D 3032C8127A
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Work type: UNK Boring: U White-lined: U
Ug/Oh/Both: U Machinery: N Depth: UNK Permits: U N/A
Done for : TAYLOR ENGINEERING / FLORIDA INLAND NAVI

Company : SEA DIVERSIFIED Type: CONT
Co addr : 21 NW 2ND STREET
City : DELRAY BEACH State: FL Zip: 33444
Caller : MICHAEL P DONOVAN, JR Phone: 561-243-4920
BestTime: ANYTIME
Fax : 561-243-4957
Email : MD@SEADIVERSIFIED.COM

Submitted: 10/22/15 11:20ET Oper: MIC Chan: WEB
Mbrs :

CCTV03 LARRY K. WINBURN** 904-380-7574
COMCAST CABLE COMMUNICATIONS, INC.
5934 RICHARD ST
JACKSONVILLE, FL 32216

Level 1: SERVICES NOT PROVIDED BY MEMBER
Level 2: SERVICES NOT PROVIDED BY MEMBER
Level 3: SERVICES NOT PROVIDED BY MEMBER
Level 4: SERVICES NOT PROVIDED BY MEMBER

FB1267 JOHN MANDRICK 904-310-3442
CITY OF FERNANDINA BEACH
1180 S 5TH ST
FERNANDINA BEACH, FL 32034

Level 1: SERVICES NOT PROVIDED BY MEMBER
Level 2: SERVICES NOT PROVIDED BY MEMBER
Level 3: SERVICES NOT PROVIDED BY MEMBER
Level 4: SERVICES NOT PROVIDED BY MEMBER

FPLNAS TRACY STERN 800-868-9554
FLORIDA POWER & LIGHT
2900 CATHERINE ST
PALATKA, FL 32177

Level 1: NO FEE
Level 2: SERVICES NOT PROVIDED BY MEMBER
Level 3: SERVICES NOT PROVIDED BY MEMBER
Level 4: SERVICES NOT PROVIDED BY MEMBER

FPUC04 CHRIS HEBERT 904-430-4710
FLORIDA PUBLIC UTILITIES COMPANY
780 AMELIA ISLAND PKWY
FERNANDINA BEACH, FL 32034

Level 1: SERVICES NOT PROVIDED BY MEMBER

Level 2: SERVICES NOT PROVIDED BY MEMBER

Level 3: SERVICES NOT PROVIDED BY MEMBER

Level 4: SERVICES NOT PROVIDED BY MEMBER

FWS614 DOUG HEWETT 904-261-9452

NASSAU AMELIA UTILITY

76347 VETERANS WAY, SUITE#4000

YULEE, FL 32097

Level 1:

Level 2:

Level 3:

Level 4:

JE1359 DAVID MEANS 904-665-8410

JACKSONVILLE ELECTRIC AUTHORITY

2434 PEARL STREET NORTH

JACKSONVILLE, FL 32206

Level 1:

Level 2:

Level 3:

Level 4:

JEA773 DAVID MEANS 904-665-8410

JACKSONVILLE ELECTRIC AUTHORITY

2434 PEARL STREET NORTH

JACKSONVILLE, FL 32206

Level 1: 8 1/2x11 = \$2 11x17 = \$3 ANY SIZE 18 OR 24 = \$4 ANY SIZE
30 = \$5

Level 2: SERVICES NOT PROVIDED BY MEMBER

Level 3: SERVICES NOT PROVIDED BY MEMBER

Level 4: SERVICES NOT PROVIDED BY MEMBER

PGSJAX DEBORAH FRAZIER ** 407-420-6609

TECO PEOPLES GAS- JACKSONVILLE

600 W ROBINSON ST

ORLANDO, FL 32801

Level 1: TECO PEOPLES GAS WILL PROVIDE THE FIRST HOUR FREE OF
CHARGE. THIS WILL ENTAIL AREVIEWING OF RECORDS, AS BUILTS,
COPIES, ECT PER PROJECT. IF PROJECT REQUIRES MORE TIME THAN AN
HOUR ADDITIONAL CHARGE OF \$45 PER HOUR WILL APPLY

Level 2: SERVICES NOT PROVIDED BY MEMBER

Level 3: SERVICES NOT PROVIDED BY MEMBER

Level 4: SERVICES NOT PROVIDED BY MEMBER

SBF17 DINO FARRUGGIO 561-997-0240

AT & T/ DISTRIBUTION

1120 S ROGERS CIR

BOCA RATON, FL 33487

Level 1: FEE TO BE DETERMINED

Level 2: NOT PROVIDED BY MEMBER

Level 3: FEE TO BE DETERMINED

Level 4: NOT PROVIDED BY MEMBER

TL2051

Ticket : 295504677 Rev:000 Taken: 10/22/15 11:20ET

State: FL Cnty: NASSAU GeoPlace: FERNANDINA BEACH
CallerPlace: FERNANDINA BEACH
Subdivision:

Address :
Street : COAST HWY
Cross 1 : MARSH POINT RD
Within 1/4 mile: Y

Locat: FROM THE INTERSECTION OF COAST HWY (A1A) AND MARSH POINT RD, GO WEST APPROXIMATELY 6,000-FEET TO THE WATER'S EDGE OF THE INTRACOASTAL WATERWAY (ICWW). AT THIS POINT CREATE DESIGN TICKET FOR 300-FEET EAST AND WEST OF THE CENTERLINE OF THE ICWW, PROCEEDING 60,000-FEET NORTH TO WATERWAY 200-FEET WEST OF INTERSECTION AT CENTRE ST AND S. FRONT STREET

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Grids	:	3037C8129D	3037D8128A	3038A8129D	3038B8129C	3038B8129D
Grids	:	3038C8129C	3038C8129D	3038D8129C	3038D8129D	3039A8128A
Grids	:	3039A8128B	3039A8128C	3039A8128D	3039A8129D	3039B8128A
Grids	:	3039B8129D	3039C8128A	3039C8129D	3039D8129D	3040C8128D
Grids	:	3040D8128C	3040D8128D			

Work date: 10/22/15 Time: 11:44ET Hrs notc: 000 Category: 6 Duration: UNKNOWN
Due Date : 10/26/15 Time: 23:59ET Exp Date : 11/23/15 Time: 23:59ET
Work type: UNK Boring: U White-lined: U
Ug/Oh/Both: U Machinery: N Depth: UNK Permits: U N/A
Done for : TAYLOR ENGINEERING / FLORIDA INLAND NAVI

Company : SEA DIVERSIFIED Type: CONT
Co addr : 21 NW 2ND STREET
City : DELRAY BEACH State: FL Zip: 33444
Caller : MICHAEL P DONOVAN, JR Phone: 561-243-4920
BestTime: ANYTIME

Fax : 561-243-4957
Email : MD@SEADIVERSIFIED.COM

Submitted: 10/22/15 11:20ET Oper: MIC Chan: WEB
Mbrs : CCTV03 FB1267 FPLNAS FPUC04 FWS614 JE1359 JEA773 LS1104 PGSJAX SBF17
Mbrs : TL2051

Service Area Code	Service Area Name	Contact	Phone Numbers	Utility Type
CCTV03	COMCAST CABLE COMMUNICATIONS INC	LARRY K. WINBURN**	Day: (904) 380 - 7574 Alt: (904) 759 - 2981	CABLE TV
FB1267	CITY OF FERNANDINA BEACH	JOHN MANDRICK	Day: (904) 310 - 3442 Alt: (904) 753 - 1412	WATER AND SEWER
FPLNAS	FLORIDA POWER & LIGHT-- NASSAU	TRACY STERN	Day: (800) 868 - 9554 Alt: (386) 329 - 5152	ELECTRIC
FPUC04	FLORIDA PUBLIC UTILITIES COMPANY	CHRIS HEBERT	Day: (904) 430 - 4710 Alt: (904) 753 - 2529	ELECTRIC, WATER & PROPANE GAS
FWS614	NASSAU AMELIA UTILITY	DOUG HEWETT	Day: (904) 261 - 9452	UNKNOWN
JE1359	JACKSONVILLE ELECTRIC AUTHORITY: JEA-WSBU - SEWER	DAVID MEANS	Day: (904) 665 - 8410	SEWER
JE773	JACKSONVILLE ELECTRIC AUTHORITY: JEA-WSBU WATER	DAVID MEANS	Day: (904) 665 - 8410	WATER
PGSJAX	TECO PEOPLES GAS JACKSONVILLE	DEBORAH FRAZIER **	Day: (407) 420 - 6609 Alt: (321) 228 - 2476	GAS
SBF17	A T & T/ DISTRIBUTION	DINO FARRUGGIO	Day: (561) 997 - 0240	TELEPHONE



**Survey Report
Intracoastal Waterway (ICW) Nassau Cut-8 to Cut 27D
Hydrographic Survey - Submerged Utility Location
January 6, 2016**

Florida Department of Environmental Protection (FDEP)

**Sea Diversified, Inc.**

21 N.W. 2nd Street
Delray Beach, Florida 33444
Phone: 561-243-4920
Facsimile: 561-243-4957

1900 S. Harbor City Blvd, Ste 110
Melbourne, Florida 32901
Phone: 321-984-7268
Facsimile: 321-984-7270

October 26, 2015

Mr. Brad Richardson
FDEP Bureau of Public Land Administration
3900 Commonwealth Blvd. MS 100
Tallahassee, FL 32399

*forwarded via electronic mail 10/26/15
(Brad.Richardson@fdep.state.fl.us)*

**Re: Easement Information Request
Intracoastal Waterway (ICWW)
From Cut-8 (West of Intersection at Centre St & Front St) Southerly
To Cut-27D (West of Intersection at Coast Hwy/A1A & Marsh Point Rd)
Fernandina Beach, Nassau County, Florida
Sunshine811 Ticket No. 295504677**

Dear Mr. Richardson:

Sea Diversified Inc. has been contracted to conduct a Utility Location Survey to identify and locate the presence of submerged utilities within specific reaches of the ICWW (Intracoastal Waterway) in Nassau County pertaining to future maintenance dredging activities. The ICWW project area encompasses approximately 60,000 linear feet of waterway from the location of Fernandina Harbor Marina at the intersection of Centre Street & Front Street, southerly to a point 6,000 feet West of the intersection of Coast Highway (A-1-A) & Marsh Point Road at the South end of Amelia Island.

I am requesting copies of any existing easement records you may have pertaining to the areas mentioned above. This information will be helpful to identify anything encroaching the project area. If you have questions or require further information, our regular office hours are 8:00 am to 5:00 pm (EST) Monday through Friday, and I can be reached directly on my cell phone (561-699-9789) anytime. Thank you in advance for your time.

Best Regards


Michael P. Donovan, Jr.
Sea Diversified, Inc.

Mike Donovan

Subject: FW: Easement Information Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island (Nassau Co)

From: Richardson, Brad [<mailto:Brad.Richardson@dep.state.fl.us>]
Sent: Thursday, October 29, 2015 11:02 AM
To: Maddox, Rod <Rod.Maddox@dep.state.fl.us>; Mike Donovan <md@seadiversified.com>
Cc: Brown, Tiana D. <Tiana.D.Brown@dep.state.fl.us>
Subject: FW: Easement Information Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island (Nassau Co)

Rod,

Please see Mr. Donovan's letter attached. I know that this isn't exactly a title determination request and typically these type of requests are handled via a title search. That being said, is there anything you could informally provide to him, regarding the matter?

After a quick surficial search, I didn't see much of anything in the form of easements along the proposed stretch. Only a bridge easement and an IWE easement.

At your convenience, could you please review and let Mr. Donovan know if you can assist?
Thank you sir!

B. Richardson

From: Mike Donovan [<mailto:md@seadiversified.com>]
Sent: Thursday, October 29, 2015 10:49 AM
To: Richardson, Brad <Brad.Richardson@dep.state.fl.us>
Cc: 'Tiana.D.Brown@dep.state.fl.us'
Subject: FW: Easement Information Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island (Nassau Co)

From: Mike Donovan
Sent: Monday, October 26, 2015 11:00 AM
To: 'Brad.Richardson@fdep.state.fl.us' <Brad.Richardson@fdep.state.fl.us>; 'Tiana.D.Brown@fdep.state.fl.us' <Tiana.D.Brown@fdep.state.fl.us>
Subject: Easement Information Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island (Nassau Co)

Good morning Mr. Richardson (and/or Ms. Brown). After a brief conversation with your helpful colleague Abby, she has directed me to your department. I am following-up my voicemail with this e-mail, if more convenient, to expedite your time and efforts. We are a Surveying & Mapping firm that specializes in hydrographic surveying who has been tasked with a utility investigation of the Intracoastal Waterway (ICWW) in Nassau County from Fernandina Harbor Marina at the intersection of Centre Street & Front Street, southerly to a point 6,000 feet West of the intersection of Coast Highway (A-1-A) & Marsh Point Road at the South end of Amelia Island, encompassing approximately 60,000 linear feet of the ICWW.

I have been tasked with requesting any Easements that may encroach the project area (please see attached), and am slightly new to requesting this information from your Agency (FDEP), so I apologize in advance if I am not following

proper protocols or procedures. At your convenience, would you inform me of the proper procedure and/or contact to request this information? Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (561-699-9789) anytime. Thank you in advance for your time Brad and Tiana.

Best Regards

Mike Donovan

Sea Diversified, Inc.

21 NW 2nd Street

Delray Beach, FL 33444

561.243.4920 (Office)

561.243.4957 (Facsimile)

md@seadiversified.com

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Mike Donovan

From: Sellers, Eric <Eric.Sellers@dep.state.fl.us>
Sent: Wednesday, November 04, 2015 1:58 PM
To: Mike Donovan
Cc: Richardson, Brad; Brown, Tiana D.
Subject: RE: Easement Information Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island (Nassau Co)
Attachments: ICWW_Fernandina_Beach_to_Franklinton.pdf

Mr. Donovan,

Please see the attached file concerning the easement request along the ICWW from Fernandina Harbor Marina to South end of Amelia Island (Nassau Co). Please let me know if you have any questions or need additional assistance.

Thank you,
Eric Sellers, PSM
Professional Land Surveyor II
Office of Survey and Mapping
Division of State Lands
Florida Department of Environmental Protection
Rm. 153B Douglas Bldg.
3900 Commonwealth Blvd., MS 108
Tallahassee, FL 32399
Phone: 850-245-2607
Eric.Sellers@dep.state.fl.us

From: Maddox, Rod
Sent: Thursday, October 29, 2015 11:11 AM
To: Sellers, Eric
Subject: Fwd: Easement Information Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island (Nassau Co)

----- Original message -----

From: "Richardson, Brad" <Brad.Richardson@dep.state.fl.us>
Date: 10/29/2015 11:02 AM (GMT-05:00)
To: "Maddox, Rod" <Rod.Maddox@dep.state.fl.us>, md@seadiversified.com
Cc: "Brown, Tiana D." <Tiana.D.Brown@dep.state.fl.us>
Subject: FW: Easement Information Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island (Nassau Co)

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B. Richardson

From: Mike Donovan [<mailto:md@seadiversified.com>]

Sent: Thursday, October 29, 2015 10:49 AM

To: Richardson, Brad <Brad.Richardson@dep.state.fl.us>

Cc: 'Tiana.D.Brown@dep.state.fl.us'

Subject: FW: Easement Information Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island (Nassau Co)

From: Mike Donovan

Sent: Thursday, October 29, 2015 10:00 AM

To: 'Brad.Richardson@fdep.state.fl.us' <Brad.Richardson@fdep.state.fl.us>; 'Tiana.D.Brown@fdep.state.fl.us' <Tiana.D.Brown@fdep.state.fl.us>

Subject: Easement Information Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island (Nassau Co)

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Best Regards

Mike Donovan

Sea Diversified, Inc.

21 NW 2nd Street

Delray Beach, FL 33444

561.243.4920 (Office)

561.243.4957 (Facsimile)

md@seadiversified.com

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**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

MARJORY STONEMAN DOUGLAS BUILDING
3900 COMMONWEALTH BOULEVARD
TALLAHASSEE, FLORIDA 32399-3000

RICK SCOTT
GOVERNOR

CARLOS LOPEZ CANTERA
LT. GOVERNOR

JONATHAN P. STEVERSON
SECRETARY

November 4, 2015

Michael P. Donovan, Jr.
Sea Diversified, Inc.
21 NW 2nd Street
Delray Beach, FL 33444

Re: Easement Information Request – Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island; Nassau County

Dear Mr. Donovan:

This letter is in response to your recent inquiry requesting easement information along the Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island in Nassau County.

Records on file within the Title and Lands Records Section indicate that there are two easements along this corridor. The first being TIITF easement no. 25354 (2481-45) to the State Department of Transportation for State Road No. 200 and TIITF easement no. 41443 to Peninsula Pipeline Company, Inc. for a subaqueous natural gas pipeline. It is worth noting that parts of the project limits may fall within the Nassau River and St. Johns River Marshes Aquatic Preserve.

If this office can be of any further assistance regarding this determination, please address your questions to Eric Sellers, PSM, Professional Land Surveyor II, mail station No. 108 at the above letterhead address, or by telephone at (850) 245-2607.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rod A. Maddox".

Rod A. Maddox, PSM, Program Manager
Division of State Lands
Bureau of Survey and Mapping
Attachment: Map
RAM/els
F:\TITLE\EricWassau\ICWW_Fernandina_to_Franklinton



Legend

APPROX. PROJECT LIMITS

DMID_368842

DMID_141494

Public Land Survey System 2006

ICWW FROM FERNANDINA BEACH TO FRANKLINTOWN NASSAU COUNTY

FOR ILLUSTRATIVE AND INFORMATIONAL PURPOSES ONLY



NO. 25354 (2481-45)

PARCEL NO. 104.1
SECTION 74060 - 2507
STATE ROAD 200
COUNTY Nassau

EASEMENT
STATE OF FLORIDA BOARD OF TRUSTEES
OF THE
INTERNAL IMPROVEMENT TRUST FUND

KNOW ALL MEN BY THESE PRESENTS, that whereas, the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION having made application to the State of Florida Board of Trustees of the Internal Improvement Trust Fund for authority to construct and/or improve and maintain a portion of State Road No. 200 upon lands held by said Trustees, as hereinafter described, and said Trustees having considered and approved said application in meeting held on Nov. 29, 1972 .

NOW, THEREFORE, BE IT RESOLVED by the State of Florida Board of Trustees of the Internal Improvement Trust Fund that an easement be hereby granted covering the following described lands, in Nassau County, Florida, to-wit:

That part of:

The submerged lands, sand bars, fills, islands, and other lands in the Amelia River in Section 46, Township 2 North, Range 28 East, lying within the following described boundaries:

Commence on the Northerly extension of the West line of Lot 105, OCEAN BREEZE FARMS, as recorded in Plat Book 2, Page 19, of the Public Records of Nassau County, at a point 631.87 feet Northerly from the Southwest corner of said Lot 105; run thence South 77 degrees 40 minutes 31 seconds West, 822.32 feet, (Crossing the West line of Section 5, Township 2 North, Range 28 East, into Section 46, Township 2 North, Range 28 East); run thence South 77 degrees 55 minutes 01 second West, 740.82 feet to the beginning of a curve concave to the Southeasterly having a radius of 4,583.66 feet; run thence Southwesterly along said curve through a total central angle of 15 degrees 35 minutes 00 seconds a distance of 1,246.67 feet to the end of said curve; run thence South 62 degrees 20 minutes 01 second West, 325.21 feet to the Point of Beginning; run thence North 27 degrees 39 minutes 59 seconds West, 200.76 feet; run thence South 59 degrees 05 minutes 01 second West, 701.13 feet; run thence South 27 degrees 39 minutes 59 seconds East, 336.01 feet; run thence North 62 degrees 20 minutes 01 second East, 700.00 feet; run thence North 27 degrees 39 minutes 59 seconds West, 175 feet to the Point of Beginning,

Containing 3.45 Acres, more or less..

and that said easement be granted for public highway purposes as and for right of way for a public State Road under supervision of the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION to control, manage, use, develop, police, protect and maintain the same for State Highway purposes only. This easement shall be effective insofar as the interest of the State of Florida Board of Trustees of the Internal Improvement Trust Fund shall extend and is made subject to any and all prior rights of the United States and to any and all prior grants made by the State of Florida Board of Trustees of the Internal Improvement Trust Fund in and to any lands within the limits of the right of way hereinabove described. The rights herein conferred on the STATE OF FLORIDA DEPARTMENT OF

THIS INSTRUMENT WAS PREPARED BY
C. F. FURBER
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
TALLAHASSEE, FLORIDA
DESCRIPTION APPROVED: JUL 17 1972

TRANSPORTATION shall extend to and include its officers, engineers and representatives and to the Federal Government as its interest in said road may appear.

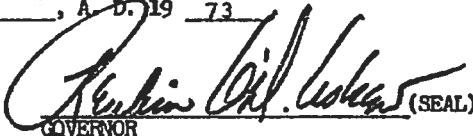
The State of Florida Department of Transportation, in accepting this easement, covenants and agrees to comply with and abide by the provisions and conditions herein and assumes all responsibility and liability and agrees to save the State of Florida Board of Trustees of the Internal Improvement Trust Fund harmless from all claims of damage arising out of this easement.

In the event the land herein described shall cease to be used for public road purposes by the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION then the easement hereby granted covering said land shall revert to the STATE OF FLORIDA BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND.

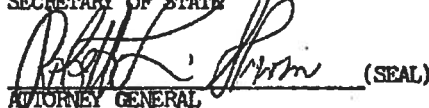
IN TESTIMONY WHEREOF, the Trustees, for and on behalf of the State of Florida Board of Trustees of the Internal Improvement Trust Fund have hereunto subscribed their names and have caused the official seal of said State of Florida Board of Trustees of the Internal Improvement Trust Fund to be hereunto affixed, in the City of Tallahassee, Florida, on this the 17th day of January, A. D. 1973

(SEAL)

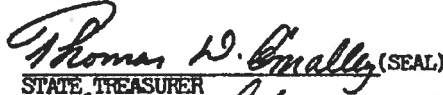
STATE OF FLORIDA BOARD OF TRUSTEES
OF THE
INTERNAL IMPROVEMENT TRUST FUND

 (SEAL)
GOVERNOR

 (SEAL)
SECRETARY OF STATE

 (SEAL)
ATTORNEY GENERAL

COMPTROLLER (SEAL)

 (SEAL)
STATE TREASURER

 (SEAL)
COMMISSIONER OF EDUCATION

 (SEAL)
COMMISSIONER OF AGRICULTURE

As and composing the State of Florida
Board of Trustees of the Internal
Improvement Trust Fund

TFI Cover Sheet

DISPOSITION ID _____ DM ID# _____

Document Type: Trustees of the Internal Improvement Trust Fund Instruments

Instrument: ☐ Deed ☐ Lease ☒ Easement ☐ Permit ☐ Management Agreement

☐ Use Agreement ☐ Disclaimer ☐ Quitclaim ☐ Dedication ☐ Release

☐ Acts of Legislation ☐ Other

Instrument Number: 41443

Extension: 000

File Number: 6113

Document Date: 2/16/2012

Consideration: NA

Water Body: Amelia River

Reservations / Reverter: N/Y

Submerged Land: (Y) ☒ (N) ☐

Original County: Nassau

Section: 37

Township: 2 N

Range: 28 E

Total Area / Area Unit: .25 (A) Acreage (S) Square Feet

Comments: BOT FILE NUMBER: 450236072

DATE PREPPED: _____ FLIP CARD INDEX: _____

PI INVENTORY # _____

☐ On MAA queue for Rescan or Additional Pgs

The information on this page was collected during the prep phase of scanning and is an aid for data entry. Please refer to the document for actual information.

This Instrument Prepared By:
Tiana Brown
Recurring Revenue Section
Bureau of Public Land Administration
3900 Commonwealth Boulevard
Mail Station No. 125
Tallahassee, Florida 32399

BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND
OF THE STATE OF FLORIDA

SOVEREIGNTY SUBMERGED LANDS EASEMENT

NO. 41443
BOT FILE NO. 450236072 (6113-45)
PA NO. 45-307481-001

THIS EASEMENT is hereby granted by the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida, hereinafter referred to as the Grantor.

WITNESSETH: That for the faithful and timely performance of and compliance with the terms and conditions stated herein, the Grantor does hereby grant to Peninsula Pipeline Company, Inc., a Delaware corporation, hereinafter referred to as the Grantee, a nonexclusive easement on, under and across the sovereignty lands, if any, contained in the following legal description:

A parcel of sovereignty submerged land in Section 37,
Township 02 North, Range 28 East, in Amelia River,
Nassau County, as is more particularly described
and shown on Attachment A, dated September 7, 2011.

TO HAVE THE USE OF the hereinabove described premises for a period of 10 years from January 12, 2012, the effective date of this easement. The terms and conditions on and for which this easement is granted are as follows:

1. USE OF PROPERTY: The above described parcel of land shall be used solely for a subaqueous natural gas pipeline and Grantee shall not engage in any activity except as described in the State of Florida Department of Environmental Protection Environmental Resource Permit Exemption No. 45-307481-001, dated October 31, 2011, incorporated herein and made a part of this easement by reference. All of the foregoing subject to the remaining conditions of this easement.
2. EASEMENT CONSIDERATION: In the event the Grantor amends its rules related to fees and the amended rules provide the Grantee will be charged a fee or an increased fee for this activity, the Grantee agrees to pay all charges required by such amended rules within 90 days of the date the amended rules become effective or by a date provided by an invoice from the Department, whichever is later. All fees charged under this provision shall be prospective in nature; i.e. they shall begin to accrue on the date that the amended rules become effective.
3. WARRANTY OF TITLE/GUARANTEE OF SUITABILITY OF USE OF LAND: Grantor neither warrants title to the lands described herein nor guarantees the suitability of any of the lands for any particular use.
4. RIGHTS GRANTED: The rights hereby granted shall be subject to any and all prior rights of the United States and any and all prior grants by the Grantor in and to the submerged lands situated within the limits of this easement.
5. DAMAGE TO EASEMENT PROPERTY AND INTERFERENCE WITH PUBLIC AND PRIVATE RIGHTS: Grantee shall not damage the easement lands or unduly interfere with public or private rights therein.
6. GRANTOR'S RIGHT TO GRANT COMPATIBLE USES OF THE EASEMENT PROPERTY: This easement is nonexclusive, and the Grantor, or its duly authorized agent, shall retain the right to enter the property or to engage in management activities not inconsistent with the use herein provided for and shall retain the right to grant compatible uses of the property to third parties during the term of this easement.
7. RIGHT TO INSPECT: Grantor, or its duly authorized agent, shall have the right at any time to inspect the works and operations of the Grantee in any matter pertaining to this easement.
8. INDEMNIFICATION/INVESTIGATION OF ALL CLAIMS: The Grantee shall investigate all claims of every nature at its expense, and shall indemnify, defend and save and hold harmless the Grantor and the State of Florida from all claims, actions, lawsuits and demands arising out of this easement, which do not arise out of or result from the negligent acts or omissions of Grantor.

9. **ASSIGNMENT OF EASEMENT:** This easement shall not be assigned or otherwise transferred without prior written consent of the Grantor or its duly authorized agent and which consent shall not be unreasonably withheld. Any assignment or other transfer without prior written consent of the Grantor shall be null and void and without legal effect.

10. **TERMINATION:** The Grantee, by acceptance of this easement, binds itself, its successors and assigns, to abide by the provisions and conditions herein set forth, and said provisions and conditions shall be deemed covenants of the Grantee, its successors and assigns. In the event the Grantee fails or refuses to comply with the provisions and conditions herein set forth or in the event the Grantee violates any of the provisions and conditions herein, this easement may be terminated by the Grantor upon 30 days written notice to Grantee. If terminated, all of the above-described parcel of land shall revert to the Grantor. All notices required to be given to Grantee by this easement or applicable law or administrative rules shall be sufficient if sent by U.S. Mail to the following address:

Peninsula Pipeline Company
990 Silver Lake Blvd.
Dover, Delaware 19904

The Grantee agrees to notify the Grantor by certified mail of any changes to this address at least ten (10) days before the change is effective.

11. **TAXES AND ASSESSMENTS:** The Grantee shall assume all responsibility for liabilities that accrue to the subject property or to the improvements thereon, including any and all drainage or special assessments or taxes of every kind and description which are now or may be hereafter lawfully assessed and levied against the subject property during the effective period of this easement which result from the grant of this easement or the activities of Grantee hereunder.

12. **REMOVAL OF STRUCTURES/ADMINISTRATIVE FINES:** If the Grantee does not remove said structures and equipment occupying and erected upon the premises after expiration or cancellation of this easement, such structures and equipment will be deemed forfeited to the Grantor, and the Grantor may authorize removal and may sell such forfeited structures and equipment after ten (10) days written notice by certified mail addressed to the Grantee at the address specified in Item 10 or at such address on record as provided to the Grantor by the Grantee. However, such remedy shall be in addition to all other remedies available to Grantor under applicable laws, rules and regulations including the right to compel removal of all structures and the right to impose administrative fines.

13. **ENFORCEMENT OF PROVISIONS:** No failure, or successive failures, on the part of the Grantor to enforce any provision, nor any waiver or successive waivers on its part of any provision herein, shall operate as a discharge thereof or render the same inoperative or impair the right of the Grantor to enforce the same upon any renewal thereof or in the event of subsequent breach or breaches.

14. **RECORDATION OF EASEMENT:** The Grantee, at its own expense, shall record this fully executed easement in its entirety in the public records of the county within which the easement site is located within fourteen (14) days after receipt, and shall provide to the Grantor within ten (10) days following the recordation a copy of the recorded easement in its entirety which contains the O.R. Book and pages at which the easement is recorded.

15. **AMENDMENT/MODIFICATIONS:** This easement is the entire and only agreement between the parties. Its provisions are not severable. Any amendment or modification to this easement must be in writing and must be accepted, acknowledged and executed by the Grantee and Grantor.

16. **USACE AUTHORIZATION:** Prior to commencement of construction and/or activities authorized herein, the Grantee shall obtain the U.S. Army Corps of Engineers (USACE) permit if it is required by the USACE. Any modifications to the construction and/or activities authorized herein that may be required by the USACE shall require consideration by and the prior written approval of the Grantor prior to the commencement of construction and/or any activities on sovereign, submerged lands.

17. **ADDITIONAL STRUCTURES OR ACTIVITIES/EMERGENCY STRUCTURAL REPAIRS:** No additional structures shall be erected and/or activities undertaken, including but not limited to, dredging, relocation/realignment or major repairs or renovations made to authorized structures, on, in or over sovereignty, submerged lands without the prior written consent from the Grantor, with the exception of emergency repairs. Unless specifically authorized in writing by the Grantor, such activities or structures shall be considered unauthorized and a violation of Chapter 253, Florida Statutes, and shall subject the Grantee to administrative fines under Chapter 18-14, Florida Administrative Code. If emergency repairs are required to be undertaken in the interests of public health, safety or welfare, the Grantee shall notify the Grantor of such repairs as quickly as is practicable; provided, however, that such emergency activities shall not exceed the activities authorized by this easement.

18. **UPLAND RIPARIAN PROPERTY INTEREST:** During the term of this easement, Grantee must have satisfactory evidence of sufficient upland interest as defined in subsection 18-21.003(60), Florida Administrative Code, to the extent required by paragraph 18-21.004(3)(b), Florida Administrative Code, in order to conduct the activity described in this easement. If at any time during the term of this easement, Grantee fails to comply with this requirement, use of sovereignty, submerged lands described in this easement shall immediately cease and this easement shall terminate and title to this easement shall revert to and vest in the Grantor immediately and automatically.

WITNESSES:

Original Signature

Print/Type Name of Witness

Original Signature

Print/Type Name of Witness

BOARD OF TRUSTEES OF THE INTERNAL
IMPROVEMENT TRUST FUND OF THE STATE
OF FLORIDA

BY:

Jeffery M. Gentry, Operations and Management Consultant
Manager, Bureau of Public Land Administration, Division
of State Lands, State of Florida Department of Environmental
Protection, as agent for and on behalf of the Board of Trustees of
the Internal Improvement Trust Fund of the State of Florida

(SEAL)

"GRANTOR"

STATE OF FLORIDA
COUNTY OF LEON

The foregoing instrument was acknowledged before me this 16th day of February, 2012, by
Jeffery M. Gentry, Operations and Management Consultant Manager, Bureau of Public Land Administration, Division of State
Lands, State of Florida Department of Environmental Protection, as agent for and on behalf of the Board of Trustees of the
Internal Improvement Trust Fund of the State of Florida. He is personally known to me.

APPROVED AS TO FORM AND LEGALITY:

DEP Attorney

Printed, Typed or Stamped Name

My Commission Expires

Commission/Serial No.

Notary Public State of Florida
Kathy C Griffin
My Commission EE148787
Expires 11/21/2016

WITNESSES:

Original Signature

Typed/Printed Name of Witness

Original Signature

Typed/Printed Name of Witness

STATE OF Florida

COUNTY OF Walton

Peninsula Pipeline Company, Inc.,
a Delaware corporation

(SEAL)

BY:

Original Signature of Executing Authority

Typed/Printed Name of Executing Authority

Jeffrey M. Householder

President

Title of Executing Authority

"GRANTEE"

The foregoing instrument was acknowledged before me this 2 day of Feb, 20 12 by
Jeffrey M. Householder as President of Peninsula Pipeline Company, Inc., a Delaware corporation, for and on behalf of the
corporation. He is personally known to me or who has produced FL DC, as identification.

My Commission Expires:

May 11, 2012

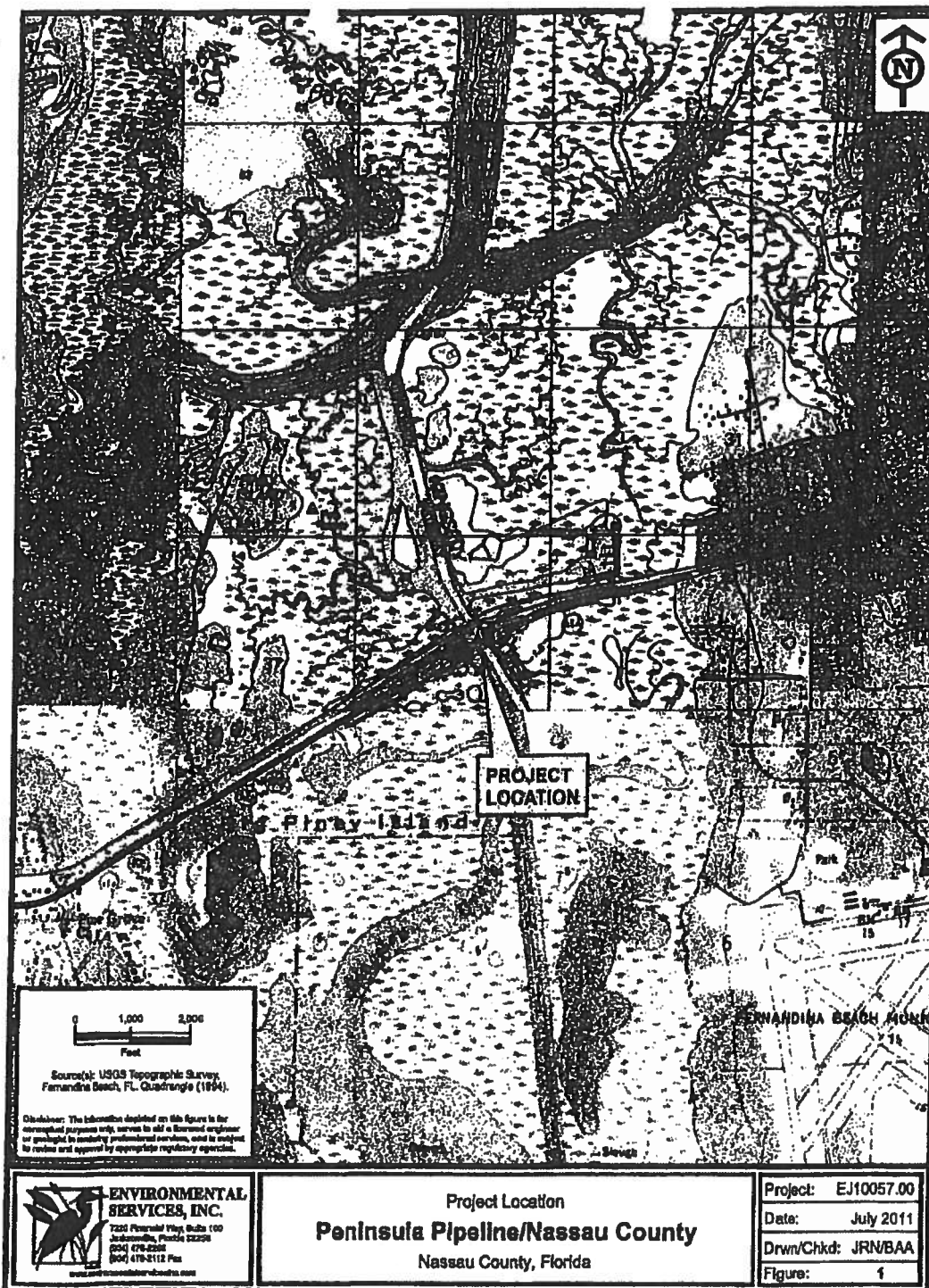
Commission/Serial No. DD768053

Page 3 of 9 Pages
Easement No. 41443

Notary Public, State of Florida

Printed, Typed or Stamped Name

NOTARY PUBLIC STATE OF FLORIDA
Joan M. Ellis
Commission #DD768053
Expires: MAY 11, 2012
BORNED THRU ATLANTIC BONDING CO., INC.



MAP SHOWING SPECIFIC PURPOSE SURVEY OF:

PART OF THE SUBMERGED, SOVEREIGN LANDS OF THE AMELIA RIVER, BEING ADJACENT TO AND CONTIGUOUS TO THE STATE OF FLORIDA STATE ROAD DEPARTMENT RIGHT OF WAY OF WAY FOR STATE ROAD NO. 200, LYING AND BEING IN SECTION 48, TOWNSHIP 2 NORTH, RANGE 28 EAST, NASSAU COUNTY, FLORIDA.

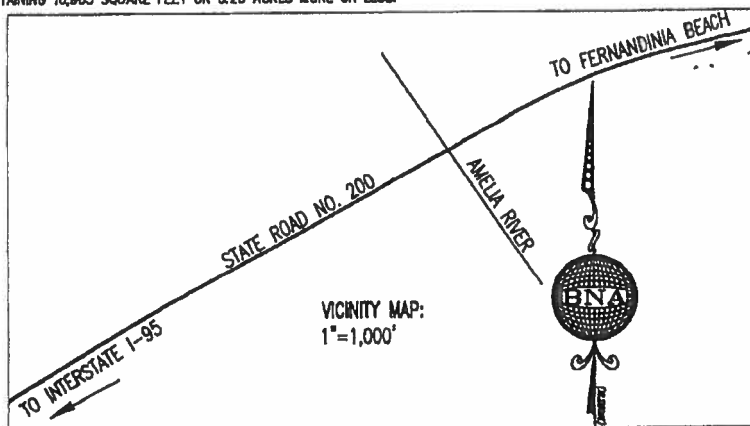
SUBMERGED LAND LEASE:

PART OF THE SUBMERGED, SOVEREIGN LANDS OF THE AMELIA RIVER, BEING ADJACENT TO AND CONTIGUOUS TO THE STATE OF FLORIDA STATE ROAD DEPARTMENT RIGHT OF WAY OF WAY FOR STATE ROAD NO. 200, LYING AND BEING IN SECTION 48, TOWNSHIP 2 NORTH, RANGE 28 EAST, NASSAU COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FOR A POINT OF REFERENCE, COMMENCE AT POINT OF TANGENCY OF THE CENTERLINE OF SURVEY STATION 539+76.18 AS SHOWN ON THE STATE OF FLORIDA STATE ROAD DEPARTMENT RIGHT OF WAY MAP SECTION 74080-2507, DATED JULY 31, 1971; THENCE NORTH 62°20'01" EAST, ALONG SAID CENTERLINE OF SURVEY, A DISTANCE OF 1520.51 FEET; THENCE SOUTH 27°39'59" EAST, DEPARTING SAID CENTERLINE OF SURVEY, A DISTANCE OF 150.03 FEET TO A POINT ON THE MEAN HIGH WATERLINE OF THE AMELIA RIVER, SAID POINT ALSO BEING A POINT ON A CURVE CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 1210.00 FEET, SAID POINT ALSO BEING THE POINT OF BEGINNING;

THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 01°33'29", AN ARC DISTANCE OF 32.90 FEET, SAID CURVE BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF NORTH 71°43'18" EAST, 32.90 FEET TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE NORTHWESTERLY AND HAVING A RADIUS OF 1190.00 FEET; THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 20°10'43", AN ARC DISTANCE OF 418.10 FEET, SAID CURVE BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF NORTH 62°24'39" EAST, 418.94 FEET TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 1210.00 FEET; THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 04°50'55", AN ARC DISTANCE OF 84.85 FEET, SAID CURVE BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF NORTH 63°54'04" EAST, 84.85 FEET TO THE MEAN HIGH WATERLINE OF THE AMELIA RIVER; THENCE SOUTHEASTERLY, ALONG SAID MEAN HIGH WATERLINE, A DISTANCE OF 27 FEET MORE OR LESS TO A POINT ON A CURVE CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 1190.00 FEET; THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 04°50'55", AN ARC DISTANCE OF 100.70 FEET, SAID CURVE BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF SOUTH 54°18'58" WEST, 100.67 FEET TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE NORTHWESTERLY AND HAVING A RADIUS OF 1210.00 FEET; THENCE SOUTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 20°10'43", AN ARC DISTANCE OF 428.14 FEET, SAID CURVE BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF SOUTH 62°24'28" WEST, 423.94 FEET TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 1100.00 FEET; THENCE SOUTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 01°31'21", AN ARC DISTANCE OF 31.82 FEET, SAID CURVE BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF SOUTH 71°44'20" WEST, 31.82 FEET TO THE MEAN HIGH WATERLINE OF THE AMELIA RIVER; THENCE NORTHWESTERLY ALONG SAID MEAN HIGH WATERLINE, A DISTANCE OF 20 FEET MORE OR LESS TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINING 10,985 SQUARE FEET OR 0.25 ACRES MORE OR LESS.



GENERAL NOTES:

1. BEARINGS ARE BASED ON THE CENTERLINE OF RIGHT OF WAY LINE OF STATE ROAD NO. 200 AS BEING NORTH 62°20'01" EAST, PER THE STATE OF FLORIDA, STATE ROAD DEPARTMENT RIGHT OF WAY MAP SECTION 74080-2507 DATED 7-31-71, SHEET 3.
2. THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF ABSTRACT OR SEARCH OF TITLE, AND THEREFORE THE UNDERSIGNED AND BRADSHAW-NILES & ASSOCIATES, MAKE NO CERTIFICATIONS REGARDING INFORMATION SHOWN OR NOT SHOWN HEREON PERTAINING TO EASEMENTS, RIGHTS OF WAY, SETBACK LINES, OVERLAPS, BOUNDARY LINE DISPUTES, AGREEMENTS, RESERVATIONS OR OTHER SIMILAR MATTERS WHICH MAY APPEAR IN THE ABSTRACT, OR SEARCH OF TITLE.
3. THIS IS A SPECIFIC PURPOSE SURVEY ONLY AND DOES NOT ADDRESS ANY WETLAND JURISDICTION OF ANY FEDERAL, STATE, COUNTY OR LOCAL AGENCIES.
4. UNDERGROUND UTILITIES OR FOUNDATIONS WERE NOT LOCATED BY THIS SURVEY.
5. THE COORDINATES SHOWN HEREON WERE ESTABLISHED USING GPS/RTK EQUIPMENT.

LEGEND

O.R. - OFFICIAL RECORDS BOOK

CERTIFICATIONS:

THIS SURVEY IS CERTIFIED TO THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA.

LAST FIELD DATE: 09/13/2010
FIELD BOOK AND PAGE: 792/16

THIS SURVEY IS CERTIFIED FOR THE EXCLUSIVE USE OF THE CLIENT NAMED HEREON AND IS NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF THE PROFESSIONAL SURVEYOR AND MAPPER OF FLORIDA SHOWN HEREON.

I HEREBY CERTIFY, that this map graphically depicts the results of a field survey made under my responsible direction and complies with the latest Minimum Technical Standards for Surveyors as promulgated by the Florida State Board of Professional Surveyors and Mappers, Chapter 5J-17.051 & 5J-17.052, Florida Administrative Code; Pursuant to Section 472.027, Florida Statutes; subject to all notes and notations shown hereon.

09/07/2011
DATE OF SIGNATURE

ALBERT D. BRADSHAW, P.S.M., FLORIDA CERTIFICATION NO. 6287



BRADSHAW-NILES & ASSOCIATES, INC.

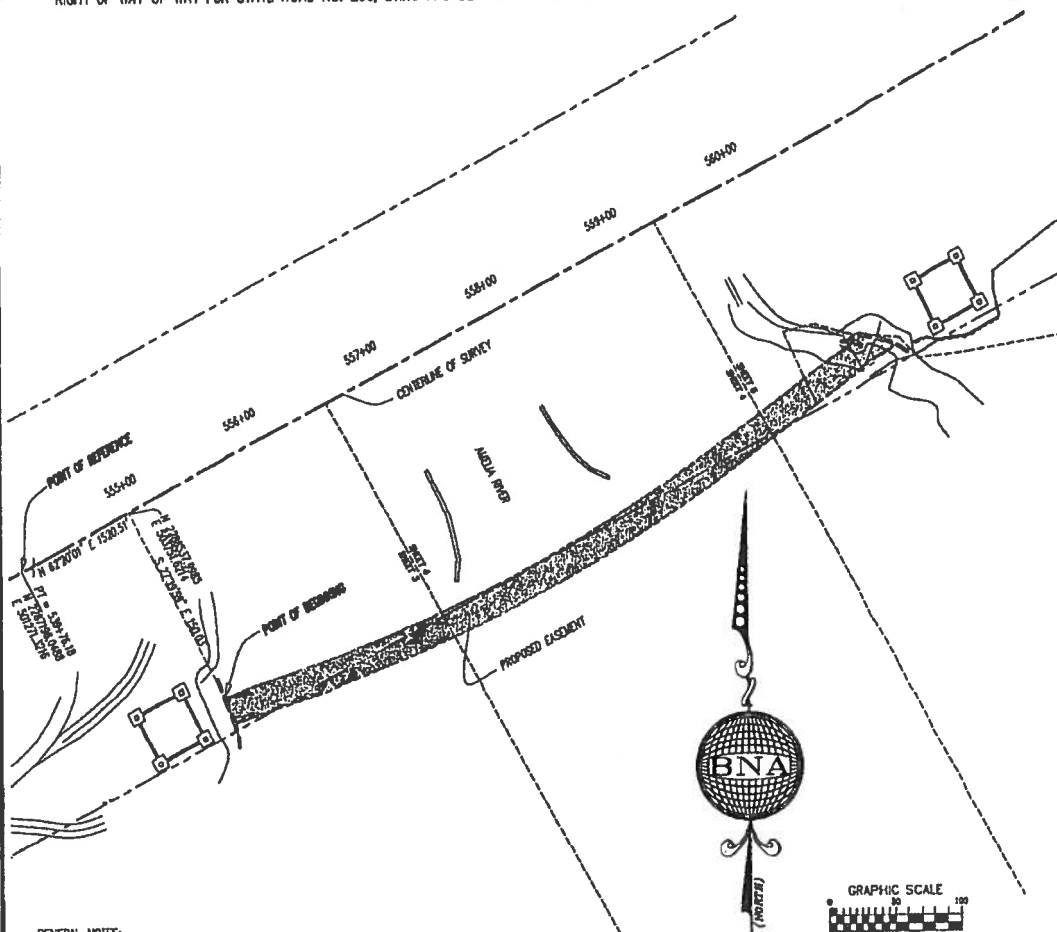
SURVEYING AND MAPPING CONSULTANTS
LICENSED BUSINESS NO. 6024
200 BUSINESS PARK CIRCLE, SUITE 110
ST. AUGUSTINE, FLORIDA 32095
(904) 829-2391 FAX: (904) 829-5070

PROJECT NO: 929-001 DRAWING NO. SPS LEGAL

SHEET 1 OF 5

MAP SH WING SPECIFIC SUR ET OF

PART OF THE SUBMERGED, SOVEREIGN LANDS OF THE AMELIA RIVER, BEING ADJACENT TO AND CONTIGUOUS TO THE STATE OF FLORIDA STATE ROAD DEPARTMENT RIGHT OF WAY FOR STATE ROAD NO. 200, LYING AND BEING IN SECTION 46, TOWNSHIP 2 NORTH, RANGE 28 EAST, NASSAU COUNTY, FLORIDA.



GENERAL NOTES:

1. BEARINGS ARE BASED ON THE CENTERLINE OF RIGHT OF WAY LINE OF STATE ROAD NO. 200 AS BEING NORTH 62°20'01" EAST, PER THE STATE OF FLORIDA, STATE ROAD DEPARTMENT RIGHT OF WAY MAP SECTION 74060-2507 DATED 7-31-71, SHEET 3.
2. THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF ABSTRACT OR SEARCH OF TITLE, AND THEREFORE THE UNDERSIGNED AND BRADSHAW-NILES & ASSOCIATES, MAKE NO CERTIFICATIONS REGARDING INFORMATION SHOWN OR NOT SHOWN HEREON PERTAINING TO EASEMENTS, RIGHTS OF WAY, SETBACK LINES, OVERLAPS, BOUNDARY LINE DISPUTES, AGREEMENTS, RESERVATIONS OR OTHER SIMILAR MATTERS WHICH MAY APPEAR IN THE ABSTRACT, OR SEARCH OF TITLE.
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4. UNDERGROUND UTILITIES OR FOUNDATIONS WERE NOT LOCATED BY THIS SURVEY.
5. THE COORDINATES SHOWN HEREON WERE ESTABLISHED USING GPS/RTK EQUIPMENT.

CERTIFICATIONS:
THIS SURVEY IS CERTIFIED TO THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA.

LEGEND

O.R. - OFFICIAL RECORDS BOOK

LAST FIELD DATE: 04/12/2011
FIELD BOOK AND PAGE: 352/5

THIS SURVEY IS CERTIFIED FOR THE EXCLUSIVE USE OF THE CLIENT NAMED HEREON AND IS NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF THE PROFESSIONAL SURVEYOR AND MAPPER OF FLORIDA SHOWN HERE

"I HEREBY CERTIFY, that this map graphically depicts the results of a field survey made under my responsible direction and complies with the latest Minimum Technical Standards for Surveys as promulgated by the Florida State Board of Professional Surveyors and Mappers, Chapter 5J-17.051 & 5J-17.052, Florida Administrative Code: Pursuant to Section 472.027, Florida Statutes; subject to all notes and notations shown hereon.

09/07/2011

DATE OF SIGNATURE

ALBERT D. BRADSHAW, P.S.M., FLORIDA CERTIFICATION NO. 5257

BRADSHAW-NILES & ASSOCIATES, INC.



SURVEYING AND MAPPING CONSULTANTS
LICENSED BUSINESS NO. 6114

280 BUSINESS PARK CIRCLE, SUITE 110
ST. AUGUSTINE, FLORIDA 32093
(904) 829-2591 FAX (904) 829-5070

PROJECT NO: 929-001

DRAWING NO. SPS MAP

SHEET 2 OF 5

MAP SH WING SPECIFIC SURVEY OF:

PART OF THE SUBMERGED, SOVEREIGN LANDS OF THE AMELIA RIVER, BEING ADJACENT TO AND CONTIGUOUS TO THE STATE OF FLORIDA STATE ROAD DEPARTMENT RIGHT OF WAY OF WAY FOR STATE ROAD NO. 200, LYING AND BEING IN SECTION 46, TOWNSHIP 2 NORTH, RANGE 28 EAST, NASSAU COUNTY, FLORIDA.

CERTIFICATIONS:
THIS SURVEY IS CERTIFIED TO THE BOARD OF
TRUSTEES OF THE INTERNAL IMPROVEMENT
TRUST FUND OF THE STATE OF FLORIDA.

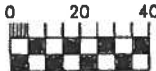
LEGEND

O.R. - OFFICIAL RECORDS BOOK



CONCRETE BASE FOR
METAL W-FRAME
OVERHEAD ELECTRIC
TOWER (PARTIALLY
GRAPHICALLY DEPICTED)

GRAPHIC SCALE



1 inch = 40 feet

LAST FIELD DATE: 04/12/2011
FIELD BOOK AND PAGE: 352/3

GENERAL NOTES:

1. BEARINGS ARE BASED ON THE CENTERLINE OF RIGHT OF WAY LINE OF STATE ROAD NO. 200 AS BEING NORTH 62°20'01" EAST, PER THE STATE OF FLORIDA, STATE ROAD DEPARTMENT RIGHT OF WAY MAP SECTION 74050-2507 DATED 7-31-71, SHEET 3.
2. THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF ABSTRACT OR SEARCH OF TITLE, AND THEREFORE THE UNDERSIGNED AND BRADSHAW-NILES & ASSOCIATES, MAKE NO CERTIFICATIONS REGARDING INFORMATION SHOWN OR NOT SHOWN HEREON PERTAINING TO EASEMENTS, RIGHTS OF WAY, SETBACK LINES, OVERLAPS, BOUNDARY LINE DISPUTES, AGREEMENTS, RESERVATIONS OR OTHER SIMILAR MATTERS WHICH MAY APPEAR IN THE ABSTRACT, OR SEARCH OF TITLE.
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4. UNDERGROUND UTILITIES OR FOUNDATIONS WERE NOT LOCATED BY THIS SURVEY.
5. THE COORDINATES SHOWN HEREON WERE ESTABLISHED USING GPS/RTK EQUIPMENT.

THIS SURVEY IS CERTIFIED FOR THE EXCLUSIVE USE OF THE CLIENT NAMED HEREON AND IS NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF THE PROFESSIONAL SURVEYOR AND MAPPER OF FLORIDA SHOWN HEREON.

"I HEREBY CERTIFY, that this map graphically depicts the results of a field survey made under my responsible direction and complies with the latest Minimum Technical Standards for Surveys as promulgated by the Florida State Board of Professional Surveyors and Mappers, Chapter 5J-17.051 & 5J-17.052, Florida Administrative Code: Pursuant to Section 472.027, Florida Statutes; subject to all notes and notations shown hereon.

09/07/2011

DATE OF SIGNATURE

ALBERT D. BRADSHAW, P.S.M., FLORIDA CERTIFICATION NO. 6257



BRADSHAW-NILES & ASSOCIATES, INC.

SURVEYING AND MAPPING CONSULTANTS
LICENSED BUSINESS NO. 6024
280 BUSINESS PARK CIRCLE, SUITE 410
ST. AUGUSTINE, FLORIDA 32095
(904) 829-2391 FAX (904) 829-9070

PROJECT NO: 929-001

DRAWING NO. SPS MAP

SHEET 3 OF 5

PART OF THE SUBMERGED, SOVEREIGN LANDS OF THE AMELIA RIVER, BEING ADJACENT TO AND CONTIGUOUS TO THE STATE OF FLORIDA STATE ROAD DEPARTMENT RIGHT OF WAY OF WAY FOR STATE ROAD NO. 200, LYING AND BEING IN SECTION 46, TOWNSHIP 2 NORTH, RANGE 28 EAST, NASSAU COUNTY, FLORIDA.



ALBERT D. BRADSHAW, P.S.M., FLORIDA CERTIFICATION NO. 5257

BRADSHAW-NILES & ASSOCIATES, INC.
SURVEYING AND MAPPING CONSULTANTS
LICENSED BUSINESS NO. 6824
280 BUSINESS PARK CIRCLE, SUITE #10
ST. AUGUSTINE, FLORIDA 32095
(904) 829-2591 FAX (904) 829-3070

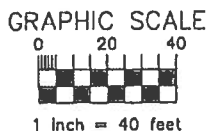
PROJECT NO: 929-001

DRAWING NO. SPS MAP

SHEET 4 OF 5

MAP SHOWING SPECIFIC SURVEY OF:
PART OF THE SUBMERGED, SOVEREIGN LANDS OF THE AMELIA RIVER, BEING ADJACENT TO AND CONTIGUOUS TO THE STATE OF FLORIDA STATE ROAD DEPARTMENT
RIGHT OF WAY OF WAY FOR STATE ROAD NO. 200, LYING AND BEING IN SECTION 46, TOWNSHIP 2 NORTH, RANGE 28 EAST, HASSAU COUNTY, FLORIDA.

LEGEND
O.R. - OFFICIAL RECORDS BOOK



THIS SURVEY IS CERTIFIED FOR THE EXCLUSIVE USE OF THE CLIENT NAMED HEREON AND IS NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF THE PROFESSIONAL SURVEYOR AND MAPPER OF FLORIDA SHOWN HERE

DATE OF SIGNATURE _____

 ALBERT O. BRADSHAW, P.S.M., FLORIDA CERTIFICATION NO. 5257

SURVEYING AND MAPPING CONSULTANTS
LICENSED BUSINESS NO 6824
280 BUSINESS PARK CIRCLE, SUITE 110
ST. AUGUSTINE, FLORIDA 32093
(904) 829-2591 FAX: (904) 829-3070

DRAWING NO. SPS MAP

SHEET 5 OF 5



**Survey Report
Intracoastal Waterway (ICW) Nassau Cut-8 to Cut 27D
Hydrographic Survey - Submerged Utility Location
January 6, 2016**

AT&T

ATT



Sea Diversified, Inc.

21 N.W. 2nd Street
Delray Beach, Florida 33444
Phone: 561-243-4920
Facsimile: 561-243-4957

1900 S. Harbor City Blvd, Ste 110
Melbourne, Florida 32901
Phone: 321-984-7268
Facsimile: 321-984-7270

October 22, 2015

Mr. Dino Farruggio
Damage Prevention Manager
AT&T Distribution
1120 S. Rogers Circle
Boca Raton, FL 33487

*forwarded via electronic mail 10/22/15
(DF1979@ATT.com)*

**Re: Utility Information Request
Intracoastal Waterway (ICWW)
From Cut-8 (West of Intersection at Centre St & Front St) South
To Cut-27D (West of Intersection at Coast Hwy/A1A & Marsh Point Rd)
Fernandina Beach, Nassau County, Florida
Sunshine811 Ticket No. 295504677**

Dear Mr. Farruggio:

Sea Diversified Inc. has been contracted to conduct a Utility Location Survey to identify and locate the presence of submerged utilities within specific reaches of the ICWW (Intracoastal Waterway) in Nassau County pertaining to future maintenance dredging activities. The ICWW project area encompasses approximately 60,000 linear feet of waterway from the location of Fernandina Harbor Marina at the intersection of Centre Street & Front Street, southerly to a point 6,000 feet West of the intersection of Coast Highway (A-1-A) & Marsh Point Road at the South end of Amelia Island.

I am requesting copies of any existing utility crossing as-built records you may have pertaining to the areas mentioned above. This information will be helpful to identify active utilities within the project area. If you have questions or require further information, our regular office hours are 8:00 am to 5:00 pm (EST) Monday through Friday, and I can be reached directly on my cell phone (561-699-9789) anytime. Thank you in advance for your time.

Best Regards


Michael P. Donovan, Jr.
Sea Diversified, Inc.

Mike Donovan

From: Mike Donovan
Sent: Thursday, October 22, 2015 2:44 PM
To: 'DF1979@ATT.com'
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island
Attachments: UtilityRequestLetter.ATT.pdf; ICWW_Nassau_Limits.jpg; ICWW_Nassau_Limits_North.jpg; ICWW_Nassau_Limits_South.jpg

Dino-

Thanks again for your time on the phone this afternoon. As I mentioned, we have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you again for your time Dino.

Best Regards
Mike Donovan
Sea Diversified, Inc.
21 NW 2nd Street
Delray Beach, FL 33444
561.243.4920 (Office)
561.243.4957 (Facsimile)
md@seadiversified.com

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Mike Donovan

From: FISHER, MARVIN <mf9438@att.com>
Sent: Friday, November 13, 2015 2:06 PM
To: FARRUGGIO, DINO S
Cc: Mike Donovan
Subject: RE: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

Dino,

As far I can tell we have:

Old copper cable that was damaged in 2010, 2-900PR, 600PR INACTIVE, HIT MY DREDGING YEARS AGO
6PR ACTIVE UNSURE OF LOCATION
OTHER 60PR, AND 144 FIBER IS ATTACHED TO THE BRIDGE.

We do not have any depths of the run as some this cable was placed over 25 YRS ago. All of the cable is in a manhole run on the Northside of the bridge.

From: FARRUGGIO, DINO S
Sent: Friday, November 13, 2015 1:31 PM
To: FISHER, MARVIN
Subject: FW: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

Hello Marvin;

Anything you have...

From: Mike Donovan [<mailto:md@seadiversified.com>]
Sent: Friday, November 13, 2015 1:15 PM
To: FARRUGGIO, DINO S
Subject: RE: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

Dino-

Hope you are having a good Friday. Do you know of any update on our previous request from last month regarding the Nassau County project area? Thanks Dino.

Best Regards

Mike Donovan

Sea Diversified, Inc.

21 NW 2nd Street

Delray Beach, FL 33444

561.243.4920 (Office)

561.699.9789 (Direct)

md@seadiversified.com

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From: FARRUGGIO, DINO S [<mailto:df1979@att.com>]

Sent: Monday, November 02, 2015 3:04 PM

To: Mike Donovan <md@seadiversified.com>

Subject: RE: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

I sent the request and will follow up with the engineer.

Dino

From: Mike Donovan [<mailto:md@seadiversified.com>]

Sent: Monday, November 02, 2015 3:01 PM

To: FARRUGGIO, DINO S

Subject: RE: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

Mr Farruggio-

Hope you are having a good Monday. I wanted to respectfully follow-up with our research for utilities in the Nassau County ICWW area, and confirm your receipt of the previous message with project limits and request (below). Thanks
Dino.

Best Regards

Mike Donovan

Sea Diversified, Inc.

21 NW 2nd Street

Delray Beach, FL 33444

561.243.4920 (Office)

561.243.4957 (Facsimile)

md@seadiversified.com

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From: Mike Donovan

Sent: Thursday, October 22, 2015 2:44 PM

To: 'DF1979@ATT.com' <DF1979@ATT.com>

Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

Dino-

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efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you again for your time Dino.

Best Regards

Mike Donovan

Sea Diversified, Inc.

21 NW 2nd Street

Delray Beach, FL 33444

561.243.4920 (Office)

561.243.4957 (Facsimile)

md@seadiversified.com

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Survey Report
Intracoastal Waterway (ICW) Nassau Cut-8 to Cut 27D
Hydrographic Survey - Submerged Utility Location
January 6, 2016

City of Fernandina Beach Utilities

CITY OF
FERNANDINA



Sea Diversified, Inc.

21 N.W. 2nd Street
Delray Beach, Florida 33444
Phone: 561-243-4920
Facsimile: 561-243-4957

1900 S. Harbor City Blvd, Ste 110
Melbourne, Florida 32901
Phone: 321-984-7268
Facsimile: 321-984-7270

October 22, 2015

Mr. John Mandrick, PE
Director – Utility Department
City of Fernandina Beach
1180 South 5th Street
Fernandina Beach, FL 32034

*forwarded via electronic mail 10/22/15
(JMandrick@fbfl.org)*

**Re: Utility Information Request
Intracoastal Waterway (ICWW)
From Cut-8 (West of Intersection at Centre St & Front St) South
To Cut-27D (West of Intersection at Coast Hwy/A1A & Marsh Point Rd)
Fernandina Beach, Nassau County, Florida
Sunshine811 Ticket No. 295504677**

Dear Mr. Mandrick:

Sea Diversified Inc. has been contracted to conduct a Utility Location Survey to identify and locate the presence of submerged utilities within specific reaches of the ICWW (Intracoastal Waterway) in Nassau County pertaining to future maintenance dredging activities. The ICWW project area encompasses approximately 60,000 linear feet of waterway from the location of Fernandina Harbor Marina at the intersection of Centre Street & Front Street, southerly to a point 6,000 feet West of the intersection of Coast Highway (A-1-A) & Marsh Point Road at the South end of Amelia Island.

I am requesting copies of any existing utility crossing as-built records you may have pertaining to the areas mentioned above. This information will be helpful to identify active utilities within the project area. If you have questions or require further information, our regular office hours are 8:00 am to 5:00 pm (EST) Monday through Friday, and I can be reached directly on my cell phone (561-699-9789) anytime. Thank you in advance for your time.

Best Regards


Michael P. Donovan, Jr.
Sea Diversified, Inc.

Mike Donovan

From: Mike Donovan
Sent: Thursday, October 22, 2015 2:17 PM
To: 'Jmandrick@fbfl.org'
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island
Attachments: UtilityRequestLetter.CityOfFernandina.pdf; ICWW_Nassau_Limits.jpg; ICWW_Nassau_Limits_North.jpg; ICWW_Nassau_Limits_South.jpg

John-

Thanks again for your time on the phone this afternoon. As I mentioned, we have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you again for your time John.

Best Regards

Mike Donovan

Sea Diversified, Inc.

1900 S. Harbor City Blvd, #110

Melbourne, FL 32901

321.984.7268 (Office)

321.984.7270 (Facsimile)

561.699.9789 (Cellular)

md@seadiversified.com

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Mike Donovan

From: John Mandrick <jmandrick@fbfl.org>
Sent: Thursday, October 22, 2015 3:30 PM
To: Mike Donovan
Subject: RE: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

Dear Mr. Mike Donovan,

As per our phone conversation the City of Fernandina Beach does not have a Water or Sewer facilities in this area.

John Mandrick

John Mandrick, PE
Utilities Director
City of Fernandina Beach
1180 S. 5th Street
Fernandina Beach, FL 32034
(904) 310-3421

From: Mike Donovan [mailto:md@seadiversified.com]
Sent: Thursday, October 22, 2015 2:17 PM
To: John Mandrick
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

John-

Thanks again for your time on the phone this afternoon. As I mentioned, we have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you again for your time John.

Best Regards
Mike Donovan
Sea Diversified, Inc.
1900 S. Harbor City Blvd, #110
Melbourne, FL 32901
321.984.7268 (Office)
321.984.7270 (Facsimile)
561.699.9789 (Cellular)
md@seadiversified.com

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**Survey Report
Intracoastal Waterway (ICW) Nassau Cut-8 to Cut 27D
Hydrographic Survey - Submerged Utility Location
January 6, 2016**

Comcast Cable

**Sea Diversified, Inc.**

21 N.W. 2nd Street
Delray Beach, Florida 33444
Phone: 561-243-4920
Facsimile: 561-243-4957

1900 S. Harbor City Blvd, Ste 110
Melbourne, Florida 32901
Phone: 321-984-7268
Facsimile: 321-984-7270

October 22, 2015

Mr. James Graham
Comast of Greater Florida/Georgia, Inc.
5934 Richard Street – 2nd Floor
Jacksonville, FL 32216

*forwarded via electronic mail 10/22/15
(James_Graham@cable.comcast.com)*

**Re: Utility Information Request
Intracoastal Waterway (ICWW)
From Cut-8 (West of Intersection at Centre St & Front St) South
To Cut-27D (West of Intersection at Coast Hwy/A1A & Marsh Point Rd)
Fernandina Beach, Nassau County, Florida
Sunshine811 Ticket No. 295504677**

Dear Mr. Graham:

Sea Diversified Inc. has been contracted to conduct a Utility Location Survey to identify and locate the presence of submerged utilities within specific reaches of the ICWW (Intracoastal Waterway) in Nassau County pertaining to future maintenance dredging activities. The ICWW project area encompasses approximately 60,000 linear feet of waterway from the location of Fernandina Harbor Marina at the intersection of Centre Street & Front Street, southerly to a point 6,000 feet West of the intersection of Coast Highway (A-1-A) & Marsh Point Road at the South end of Amelia Island.

I am requesting copies of any existing utility crossing as-built records you may have pertaining to the areas mentioned above. This information will be helpful to identify active utilities within the project area. If you have questions or require further information, our regular office hours are 8:00 am to 5:00 pm (EST) Monday through Friday, and I can be reached directly on my cell phone (561-699-9789) anytime. Thank you in advance for your time.

Best Regards


Michael P. Donovan, Jr.
Sea Diversified, Inc.

Mike Donovan

From: Mike Donovan
Sent: Thursday, October 22, 2015 2:35 PM
To: 'James_Graham@cable.comcast.com'
Cc: 'Liam_McKenna@cable.comcast.com'
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island
Attachments: UtilityRequestLetter.Comcast.pdf; ICWW_Nassau_Limits.jpg; ICWW_Nassau_Limits_North.jpg; ICWW_Nassau_Limits_South.jpg

Mr Graham-

Per discussions with Liam McKenna, please see attached information for a utility information request for a unique area. We have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you in advance for your time James.

Best Regards

Mike Donovan

Sea Diversified, Inc.

1900 S. Harbor City Blvd, #110

Melbourne, FL 32901

321.984.7268 (Office)

321.984.7270 (Facsimile)

561.699.9789 (Cellular)

md@seadiversified.com

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Mike Donovan

From: Graham, James <James_Graham@cable.comcast.com>
Sent: Wednesday, November 11, 2015 2:22 PM
To: Mike Donovan
Cc: McKenna, Liam
Subject: RE: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

There are large vaults on each side approx. 150ft from each bank. Sub aqueous bore, depth not available . it is located on the north side of bridge.

From: Mike Donovan [mailto:md@seadiversified.com]
Sent: Tuesday, November 10, 2015 3:52 PM
To: Graham, James
Cc: McKenna, Liam
Subject: RE: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

James-

Is there any additional information (construction plans, as-builts, or anything) for the CATV/Fiber Optic cable crossing at the 8th Street/SR200/A1A Bridge over the Intracoastal Waterway (attached)? We will only be using this information for scientific/investigative purposes, and plan on beginning the field investigations next week, so any information would be appreciated. Thank you James.

Best Regards

Mike Donovan

Sea Diversified, Inc.

1900 S. Harbor City Blvd, #110

Melbourne, FL 32901

321.984.7268 (Office)

321.984.7270 (Facsimile)

561.699.9789 (Cellular)

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From: Mike Donovan
Sent: Thursday, October 22, 2015 2:35 PM
To: 'James_Graham@cable.comcast.com' <James_Graham@cable.comcast.com>
Cc: 'Liam_McKenna@cable.comcast.com' <Liam_McKenna@cable.comcast.com>
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

Mr Graham-

Per discussions with Liam McKenna, please see attached information for a utility information request for a unique area. We have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you in advance for your time James.



Mike Donovan

From: Graham, James <James_Graham@cable.comcast.com>
Sent: Friday, October 23, 2015 8:56 AM
To: Mike Donovan
Cc: Graham, James
Subject: Full page photo 1_mu.pdf
Attachments: Full page photo 1_mu.pdf

Full page photo 1_mu.pdf



**Survey Report
Intracoastal Waterway (ICW) Nassau Cut-8 to Cut 27D
Hydrographic Survey - Submerged Utility Location
January 6, 2016**

Florida Public Utilities Company (FPUC)

**Sea Diversified, Inc.**

21 N.W. 2nd Street
Delray Beach, Florida 33444
Phone: 561-243-4920
Facsimile: 561-243-4957

1900 S. Harbor City Blvd, Ste 110
Melbourne, Florida 32901
Phone: 321-984-7268
Facsimile: 321-984-7270

October 22, 2015

Mr. Chris Hebert
Assistant Electrical Operations Manager
Florida Public Utilities Company
780 Amelia Island Pkwy
Fernandina Beach, FL 32034

*forwarded via electronic mail 10/22/15
(CHebert@FPUC.com)*

**Re: Utility Information Request
Intracoastal Waterway (ICWW)
From Cut-8 (West of Intersection at Centre St & Front St) South
To Cut-27D (West of Intersection at Coast Hwy/A1A & Marsh Point Rd)
Fernandina Beach, Nassau County, Florida
Sunshine811 Ticket No. 295504677**

Dear Mr. Hebert:

Sea Diversified Inc. has been contracted to conduct a Utility Location Survey to identify and locate the presence of submerged utilities within specific reaches of the ICWW (Intracoastal Waterway) in Nassau County pertaining to future maintenance dredging activities. The ICWW project area encompasses approximately 60,000 linear feet of waterway from the location of Fernandina Harbor Marina at the intersection of Centre Street & Front Street, southerly to a point 6,000 feet West of the intersection of Coast Highway (A-1-A) & Marsh Point Road at the South end of Amelia Island.

I am requesting copies of any existing utility crossing as-built records you may have pertaining to the areas mentioned above. This information will be helpful to identify active utilities within the project area. If you have questions or require further information, our regular office hours are 8:00 am to 5:00 pm (EST) Monday through Friday, and I can be reached directly on my cell phone (561-699-9789) anytime. Thank you in advance for your time.

Best Regards


Michael P. Donovan, Jr.
Sea Diversified, Inc.

Mike Donovan

From: Mike Donovan
Sent: Thursday, October 22, 2015 2:27 PM
To: 'chebert@fpuc.com'
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island
Attachments: UtilityRequestLetter.FloridaPublicUtilities.pdf; ICWW_Nassau_Limits.jpg; ICWW_Nassau_Limits_North.jpg; ICWW_Nassau_Limits_South.jpg

Chris-

Thanks again for the call back and your time on the phone this afternoon. As I mentioned, we have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you again for your time Chris.

Best Regards
Mike Donovan
Sea Diversified, Inc.
21 NW 2nd Street
Delray Beach, FL 33444
561.243.4920 (Office)
561.699.9789 (Direct)
md@seadiversified.com

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Mike Donovan

From: Hebert, Chris <chebert@chpk.com>
Sent: Wednesday, December 02, 2015 1:15 PM
To: Mike Donovan
Cc: Hebert, Chris
Subject: RE: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

As per the attached drawings showing the Utility Investigation route, FPUC has no underground electrical utilities crossing the Intracoastal Waterway. We do have a 138kV double circuit overhead transmission line that crosses the ICWW just south of the SR200 Bridge.

Chris Hebert
Assistant Electrical Operations Manager
Florida Public Utilities Company
904.430.4710 (office)
904.753.2529 (cell)
www.fpuc.com

From: Mike Donovan [mailto:md@seadiversified.com]
Sent: Thursday, October 22, 2015 2:27 PM
To: Hebert, Chris <chebert@chpk.com>
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

Chris-

Thanks again for the call back and your time on the phone this afternoon. As I mentioned, we have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you again for your time Chris.

Best Regards
Mike Donovan
Sea Diversified, Inc.
21 NW 2nd Street
Delray Beach, FL 33444
561.243.4920 (Office)
561.699.9789 (Direct)
md@seadiversified.com

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Survey Report
Intracoastal Waterway (ICW) Nassau Cut-8 to Cut 27D
Hydrographic Survey - Submerged Utility Location
January 6, 2016

Florida Power & Light (FPL)

**Sea Diversified, Inc.**

21 N.W. 2nd Street
Delray Beach, Florida 33444
Phone: 561-243-4920
Facsimile: 561-243-4957

1900 S. Harbor City Blvd, Ste 110
Melbourne, Florida 32901
Phone: 321-984-7268
Facsimile: 321-984-7270

October 22, 2015

Mrs. Tracy Stern
Florida Power & Light (FP&L)
2900 Catherine Street
Palatka, FL 32177

*forwarded via electronic mail 10/22/15
(Tracy.Stern@FPL.com)*

**Re: Utility Information Request
Intracoastal Waterway (ICWW)
From Cut-8 (West of Intersection at Centre St & Front St) South
To Cut-27D (West of Intersection at Coast Hwy/A1A & Marsh Point Rd)
Fernandina Beach, Nassau County, Florida
Sunshine811 Ticket No. 295504677**

Dear Mrs. Stern:

Sea Diversified Inc. has been contracted to conduct a Utility Location Survey to identify and locate the presence of submerged utilities within specific reaches of the ICWW (Intracoastal Waterway) in Nassau County pertaining to future maintenance dredging activities. The ICWW project area encompasses approximately 60,000 linear feet of waterway from the location of Fernandina Harbor Marina at the intersection of Centre Street & Front Street, southerly to a point 6,000 feet West of the intersection of Coast Highway (A-1-A) & Marsh Point Road at the South end of Amelia Island.

I am requesting copies of any existing utility crossing as-built records you may have pertaining to the areas mentioned above. This information will be helpful to identify active utilities within the project area. If you have questions or require further information, our regular office hours are 8:00 am to 5:00 pm (EST) Monday through Friday, and I can be reached directly on my cell phone (561-699-9789) anytime. Thank you in advance for your time.

Best Regards


Michael P. Donovan, Jr.
Sea Diversified, Inc.

Mike Donovan

From: Mike Donovan
Sent: Thursday, October 22, 2015 2:57 PM
To: 'tracy.stern@fpl.com'
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island
Attachments: UtilityRequestLetter.FPL.pdf; ICWW_Nassau_Limits.jpg; ICWW_Nassau_Limits_North.jpg; ICWW_Nassau_Limits_South.jpg

Ms Stern-

Thanks again for your time on the phone this afternoon. As I mentioned, we have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you again for your time Tracy.

Best Regards

Mike Donovan

Sea Diversified, Inc.

21 NW 2nd Street

Delray Beach, FL 33444

561.243.4920 (Office)

561.243.4957 (Facsimile)

md@seadiversified.com

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Mike Donovan

From: Stern, Tracy <Tracy.Stern@fpl.com>
Sent: Friday, October 23, 2015 3:11 PM
To: Mike Donovan
Subject: RE: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

Our records show design request number 295504677 for Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island does not have conflict with FPL's buried electrical facilities. If I may assist you in the future, please feel free to contact me.

Thank You

Tracy Stern

FPL Statewide Cable
Locations Department
386-329-5152



From: Mike Donovan [mailto:md@seadiversified.com]
Sent: Thursday, October 22, 2015 2:58 PM
To: Stern, Tracy
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email.

Ms Stern-

Thanks again for your time on the phone this afternoon. As I mentioned, we have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you again for your time Tracy.

Best Regards

Mike Donovan

Sea Diversified, Inc.

21 NW 2nd Street
Delray Beach, FL 33444
561.243.4920 (Office)
561.243.4957 (Facsimile)
md@seadiversified.com

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Survey Report
Intracoastal Waterway (ICW) Nassau Cut-8 to Cut 27D
Hydrographic Survey - Submerged Utility Location
January 6, 2016

Jacksonville Electric Authority (JEA)

SEA



Sea Diversified, Inc.

21 N.W. 2nd Street
Delray Beach, Florida 33444
Phone: 561-243-4920
Facsimile: 561-243-4957

1900 S. Harbor City Blvd, Ste 110
Melbourne, Florida 32901
Phone: 321-984-7268
Facsimile: 321-984-7270

October 22, 2015

Mr. David Means
Jacksonville Electric Authority
2434 Pearl Street North
Jacksonville, FL 32206

forwarded via electronic mail 10/23/15
(meanmd@jea.com)

**Re: Utility Information Request
Intracoastal Waterway (ICWW)
From Cut-8 (West of Intersection at Centre St & Front St) South
To Cut-27D (West of Intersection at Coast Hwy/A1A & Marsh Point Rd)
Fernandina Beach, Nassau County, Florida
Sunshine811 Ticket No. 295504677**

Dear Mr. Means:

Sea Diversified Inc. has been contracted to conduct a Utility Location Survey to identify and locate the presence of submerged utilities within specific reaches of the ICWW (Intracoastal Waterway) in Nassau County pertaining to future maintenance dredging activities. The ICWW project area encompasses approximately 60,000 linear feet of waterway from the location of Fernandina Harbor Marina at the intersection of Centre Street & Front Street, southerly to a point 6,000 feet West of the intersection of Coast Highway (A-1-A) & Marsh Point Road at the South end of Amelia Island.

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Best Regards


Michael P. Donovan, Jr.
Sea Diversified, Inc.

Mike Donovan

From: Means, M. David <MeanMD@jea.com>
Sent: Friday, October 23, 2015 12:16 PM
To: Mike Donovan
Subject: RE: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

Mike this is out of the Jea service area we do not have any utilities that are in conflict this would go to Fernandina Beach utilities thanks

From: Mike Donovan [mailto:md@seadiversified.com]
Sent: Friday, October 23, 2015 11:33 AM
To: Means, M. David; Forbes, Brenda W. - Manager Utility Locate Services
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

David-

Per discussions with the helpful assistants in your office, please see attached information for a utility information request for a unique area (Intracoastal Waterway). We have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you in advance for your time and any assistance you may offer David.

Best Regards
Mike Donovan
Sea Diversified, Inc.
21 NW 2nd Street
Delray Beach, FL 33444
561.243.4920 (Office)
561.243.4957 (Facsimile)
md@seadiversified.com

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**Survey Report
Intracoastal Waterway (ICW) Nassau Cut-8 to Cut 27D
Hydrographic Survey - Submerged Utility Location
January 6, 2016**

Nassau-Amelia Utilities (NAU)

**Sea Diversified, Inc.**

21 N.W. 2nd Street
Delray Beach, Florida 33444
Phone: 561-243-4920
Facsimile: 561-243-4957

1900 S. Harbor City Blvd, Ste 110
Melbourne, Florida 32901
Phone: 321-984-7268
Facsimile: 321-984-7270

October 22, 2015

Mr. J. Scott Herring, P.E.
Public Works Director
Nassau-Amelia Utilities (NAU)
96135 Nassau Place
Yulee, FL 32097

*forwarded via electronic mail 10/22/15
(SHerring@NassauCountyFL.com)*

**Re: Utility Information Request
Intracoastal Waterway (ICWW)
From Cut-8 (West of Intersection at Centre St & Front St) South
To Cut-27D (West of Intersection at Coast Hwy/A1A & Marsh Point Rd)
Fernandina Beach, Nassau County, Florida
Sunshine811 Ticket No. 295504677**

Dear Mr. Herring:

Sea Diversified Inc. has been contracted to conduct a Utility Location Survey to identify and locate the presence of submerged utilities within specific reaches of the ICWW (Intracoastal Waterway) in Nassau County pertaining to future maintenance dredging activities. The ICWW project area encompasses approximately 60,000 linear feet of waterway from the location of Fernandina Harbor Marina at the intersection of Centre Street & Front Street, southerly to a point 6,000 feet West of the intersection of Coast Highway (A-1-A) & Marsh Point Road at the South end of Amelia Island.

I am requesting copies of any existing utility crossing as-built records you may have pertaining to the areas mentioned above. This information will be helpful to identify active utilities within the project area. If you have questions or require further information, our regular office hours are 8:00 am to 5:00 pm (EST) Monday through Friday, and I can be reached directly on my cell phone (561-699-9789) anytime. Thank you in advance for your time.

Best Regards


Michael P. Donovan, Jr.
Sea Diversified, Inc.

Mike Donovan

From: Mike Donovan
Sent: Thursday, October 22, 2015 3:04 PM
To: 'SHerring@NassauCountyFL.com'
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island
Attachments: UtilityRequestLetter.NassauAmeliaUtilities.pdf; ICWW_Nassau_Limits.jpg; ICWW_Nassau_Limits_North.jpg; ICWW_Nassau_Limits_South.jpg

Mr Herring-

Per discussions with the helpful assistants in your office, please see attached information for a utility information request for a unique area. We have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you in advance for your time Scott.

Best Regards

Mike Donovan

Sea Diversified, Inc.

21 NW 2nd Street

Delray Beach, FL 33444

561.243.4920 (Office)

561.243.4957 (Facsimile)

md@seadiversified.com

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Mike Donovan

From: Scott Herring <sherring@nassaucountyfl.com>
Sent: Friday, October 23, 2015 7:59 AM
To: Mike Donovan
Cc: Shelley Caldwell; Yvonne Thomas; Becky Bray; Danny White; Chester Mason
Subject: RE: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

Mr. Donovan,
Nassau Amelia Utilities has no facilities in the ICWW. We hope you find this information helpful Should you have any questions or need further information, please contact this office.
Scott Herring

Our New Phone Number is 904-530-6225

J. Scott Herring, P.E.
Nassau County Public Works Director
sherring@nassaucountyfl.com
Phone 904-530-6225
www.nassaucountyfl.com
96161 Nassau Place
Yulee, FL 32097

Under Florida law, e-mail addresses are public records. If you do not want your e-mail address released in response to a public records request, please do not send electronic mail to this entity. Instead, please contact this office by phone or in writing.

From: Mike Donovan [mailto:md@seadiversified.com]
Sent: Thursday, October 22, 2015 3:05 PM
To: Scott Herring <sherring@nassaucountyfl.com>
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island

Mr Herring-
Per discussions with the helpful assistants in your office, please see attached information for a utility information request for a unique area. We have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you in advance for your time Scott.

Best Regards
Mike Donovan
Sea Diversified, Inc.
21 NW 2nd Street
Delray Beach, FL 33444
561.243.4920 (Office)
561.243.4957 (Facsimile)
md@seadiversified.com



Survey Report
Intracoastal Waterway (ICW) Nassau Cut-8 to Cut 27D
Hydrographic Survey - Submerged Utility Location
January 6, 2016

TECO Energy

**Sea Diversified, Inc.**

21 N.W. 2nd Street
Delray Beach, Florida 33444
Phone: 561-243-4920
Facsimile: 561-243-4957

1900 S. Harbor City Blvd, Ste 110
Melbourne, Florida 32901
Phone: 321-984-7268
Facsimile: 321-984-7270

October 22, 2015

Ms. Donna Spohn
Teco Peoples Gas System, Inc.
4040 Phillips Highway
Jacksonville, FL 32207

*forwarded via electronic mail 10/22/15
(dmspohn@tecoenergy.com)*

**Re: Utility Information Request
Intracoastal Waterway (ICWW)
From Cut-8 (West of Intersection at Centre St & Front St) South
To Cut-27D (West of Intersection at Coast Hwy/A1A & Marsh Point Rd)
Fernandina Beach, Nassau County, Florida
Sunshine811 Ticket No. 295504677**

Dear Mrs. Spohn:

Sea Diversified Inc. has been contracted to conduct a Utility Location Survey to identify and locate the presence of submerged utilities within specific reaches of the ICWW (Intracoastal Waterway) in Nassau County pertaining to future maintenance dredging activities. The ICWW project area encompasses approximately 60,000 linear feet of waterway from the location of Fernandina Harbor Marina at the intersection of Centre Street & Front Street, southerly to a point 6,000 feet West of the intersection of Coast Highway (A-1-A) & Marsh Point Road at the South end of Amelia Island.

I am requesting copies of any existing utility crossing as-built records you may have pertaining to the areas mentioned above. This information will be helpful to identify active utilities within the project area. If you have questions or require further information, our regular office hours are 8:00 am to 5:00 pm (EST) Monday through Friday, and I can be reached directly on my cell phone (561-699-9789) anytime. Thank you in advance for your time.

Best Regards


Michael P. Donovan, Jr.
Sea Diversified, Inc.

Mike Donovan

From: Mike Donovan
Sent: Thursday, October 22, 2015 2:50 PM
To: 'dmspohn@tecoenergy.com'
Cc: 'difrazier@tecoenergy.com'
Subject: Utility Investigation Request - Intracoastal Waterway (ICWW) from Fernandina Harbor Marina to South end of Amelia Island
Attachments: UtilityRequestLetter.TecoEnergy.pdf; ICWW_Nassau_Limits.jpg; ICWW_Nassau_Limits_North.jpg; ICWW_Nassau_Limits_South.jpg

Mrs Spohn-

Per discussions with Debbie Frazier, please see attached information for a utility information request for a unique area. We have created a Sunshine811 Design Ticket to accompany this project, but wanted to send along the attached information to expedite your time and efforts. Should you need any additional information or any formats that would be more convenient, please feel free to contact me directly via this e-mail address (md@seadiversified.com) or phone (321-984-7268) anytime. Thank you in advance for your time Donna (and for Debbie's time on the phone this afternoon).

Best Regards

Mike Donovan

Sea Diversified, Inc.

21 NW 2nd Street

Delray Beach, FL 33444

561.243.4920 (Office)

561.243.4957 (Facsimile)

md@seadiversified.com

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Mike Donovan

From: Mike Donovan
Sent: Thursday, October 29, 2015 3:48 PM
To: 'dmspohn@tecoenergy.com'
Subject: FW: Peoples Gas
Attachments: 8th.jpg; Design ticket letter Jax Dyta.doc

Ms Spohn-

Per discussions with Debbi Frazier (below and attached), would you please provide us with any available as-builts or records for the reported gas main that is located along 8th Street (A-1-A) Bridge over the Intracoastal Waterway (ICWW) in Fernandina/Amelia Island? Should you need an official request in any format, please do not hesitate to let me know, and we will follow-up accordingly. Thank you in advance for your time Donna.

Best Regards

Mike Donovan

Sea Diversified, Inc.

1900 S. Harbor City Blvd, #110

Melbourne, FL 32901

321.984.7268 (Office)

321.984.7270 (Facsimile)

561.699.9789 (Cellular)

md@seadiversified.com

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From: Frazier, Deborah [mailto:difrazier@tecoenergy.com]

Sent: Thursday, October 29, 2015 11:40 AM

To: Mike Donovan <md@seadiversified.com>

Subject: Peoples Gas

I had a hard time getting this much area at once. When I zoom out I lose too much. I could only find main on 8th street and I think it is the area in your grid.

If you need more details or mark ups for better info, please contact Donna Spohn at dmspohn@tecoenergy.com in the Jax office.

thanks

Debbi Frazier

TECO Peoples Gas

407-420-6609 desk

407-839-0768 fax

Call before you dig....Sunshine 811



Date: December 18, 2015

To: MICHAEL P DONOVAN, JR

Subject: Design Ticket #295504677

() Peoples Gas System, Inc. has no gas mains or services within the referenced area.

() We are returning your prints marked with Peoples Gas System, Inc. gas mains or services within the referenced area.

(X) We are returning a print of Peoples Gas System, Inc. gas main or services within the referenced area.

() Please furnish final construction plans for this job and include Peoples Gas System, Inc. in the pre-design and pre-construction meeting(s).

(X) **For further information please call: Jerrod Carter, Engineering Department at (904) 443-7355**

() Remarks:

**THE ATTACHED DRAWINGS ARE
PROVIDED SUBJECT TO
RESTRICTIONS AND
LIMITATIONS.**

NOTE: If a map is provided with this letter the following applies: The map is provided for convenience purpose only, and is not intended to be used for detailed locations. No warranty or guaranty expressed or implied, is made as to completeness, accuracy or fitness for a particular purpose. Use of this map is at the risk of the recipient who assumes full responsibility therefor.

Please call 811, two full business days prior to construction to have the locations of the facilities field verified

Angel Quant
Regional Operations Manager
East Region

Prepared By: dif

Mike Donovan

From: Frazier, Deborah <difrazier@tecoenergy.com>
Sent: Thursday, October 29, 2015 11:40 AM
To: Mike Donovan
Subject: Peoples Gas
Attachments: 8th.jpg; Design ticket letter Jax Dyta.doc

I had a hard time getting this much area at once. When I zoom out I lose too much. I could only find main on 8th street and I think it is the area in your grid. If you need more details or mark ups for better info, please contact Donna Spohn at dmspohn@tecoenergy.com in the Jax office.
thanks

Debbi Frazier
TECO Peoples Gas
407-420-6609 desk
407-839-0768 fax
Call before you dig....Sunshine 811



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Appendix B

Chart Reductions



VICINITY AERIAL /
SHEET INDEX

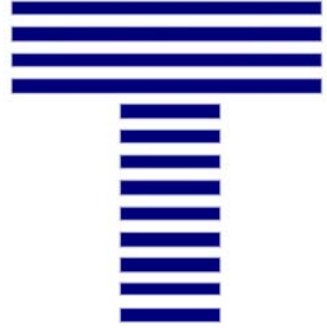
SUBMERGED UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT-27D

NASSAU COUNTY, FLORIDA

PREPARED FOR:

TAYLOR ENGINEERING INC.

TAYLOR ENGINEERING INC



10151 DEERWOOD PARK BLVD
BLDG. 300, SUITE 300
JACKSONVILLE, FL 32256

PREPARED BY:

SEA DIVERSIFIED, INC.



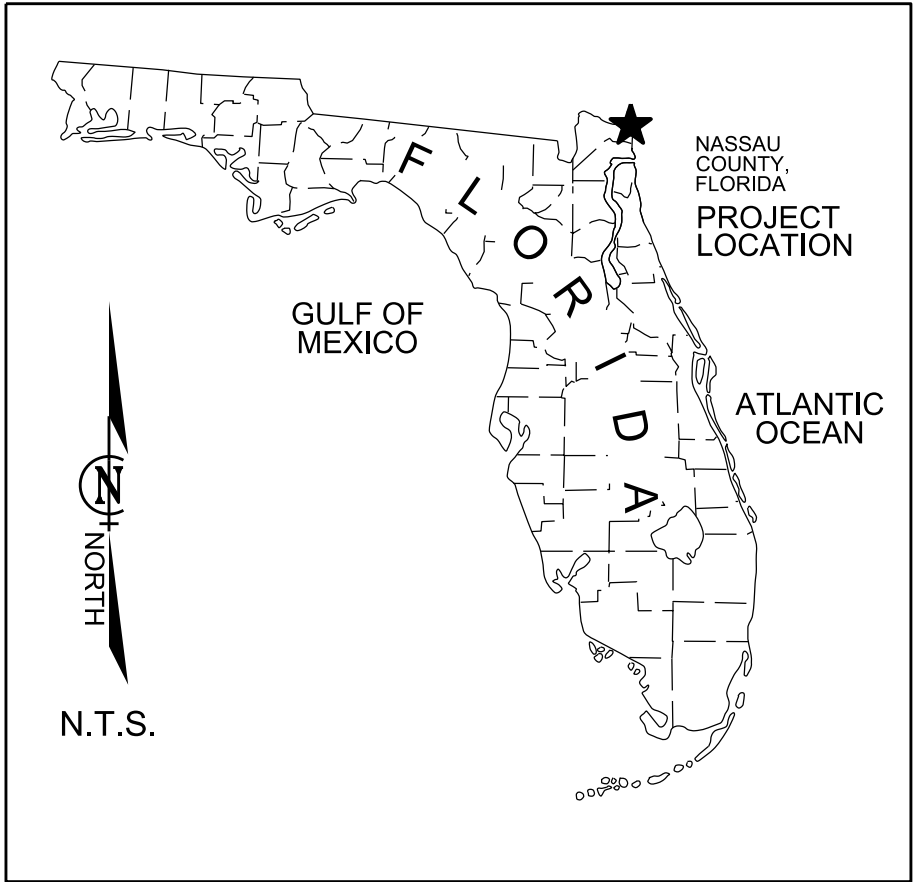
21 NW 2ND STREET
DELRAY BEACH, FL 33444

LEGEND	
2-1 X	MAGNETIC ANOMALY (TYPICAL)

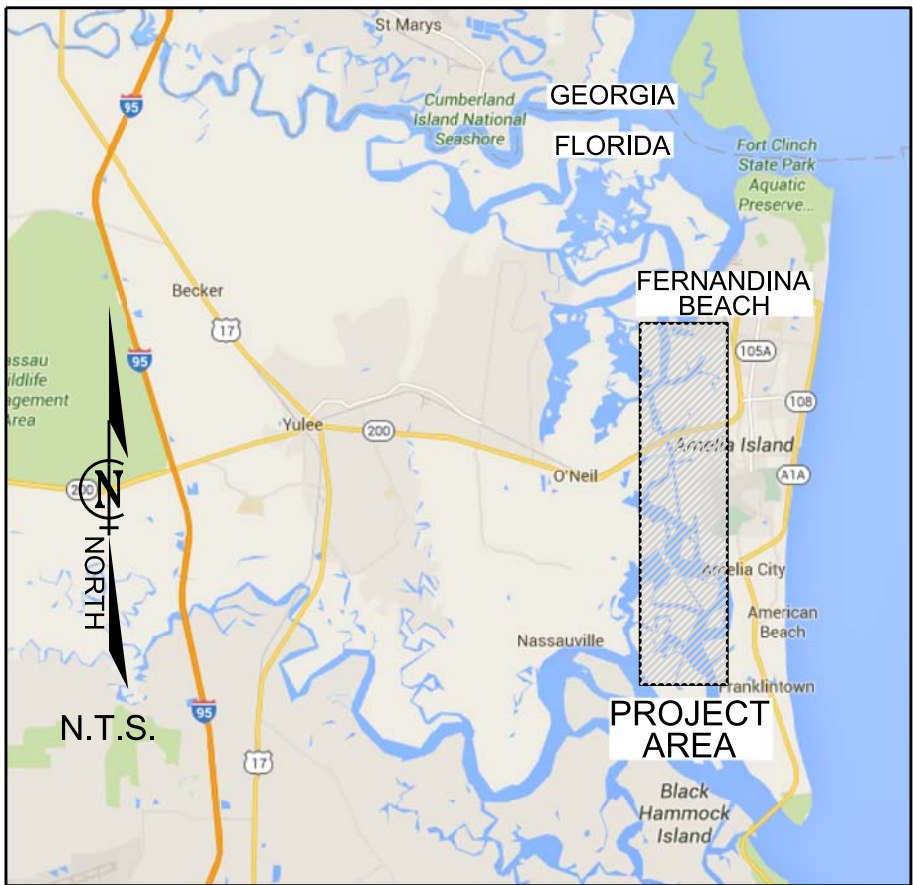
ABBREVIATIONS	
AZ.	AZIMUTH
NCGC	NASSAU COUNTY GEODETIC CONTROL
SPC	STATE PLANE COORDINATES
DGPS	DIFFERENTIAL GLOBAL POSITIONING SYSTEM
NAD	NORTH AMERICAN DATUM
ICWW	INTRACOASTAL WATERWAY
RTK	REAL TIME KINEMATIC
USACE	U.S. ARMY CORPS OF ENGINEERS

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	COVER - NOTES - LOCATION / VICINITY MAP
2 - 22	PLAN VIEW

CONTROL TABULATION				
DESIGNATION	SPC 0901 FLORIDA EAST		ELEV. FEET NAVD88	DESCRIPTION
	NORTHING FEET NAD83/90	EASTING FEET NAD83/90		
RICHARD E. BONNER	2304621.03	509882.49	N/A	USACE BRONZE DISC IN WALL (PID BBCK39)
NASSAU 9	2286160.18	499589.02	N/A	NCGC BRONZE DISC IN CONCRETE (PID DE5894)



LOCATION MAP



VICINITY MAP

- NOTES:
- REFER TO SEA DIVERSIFIED PROJECT 15-2309
 - THIS SUBMERGED UTILITY INVESTIGATION WAS PERFORMED ON NOVEMBER 17 THROUGH NOVEMBER 20, 2015. THE PURPOSE OF THE INVESTIGATION WAS TO IDENTIFY AND MAP POSSIBLE SUBMERGED UTILITY CROSSINGS ALONG THE ICWW, CUT 8 THROUGH CUT 27D IN NASSAU COUNTY, FLORIDA.
 - ALL AZIMUTHS ARE GRID, RECKONED CLOCKWISE FROM NORTH.
 - THE COORDINATES SHOWN HEREON ARE IN FEET AND ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901), TRANSVERSE MERCATOR PROJECTION, NORTH AMERICAN DATUM, 1983 (NAD83).
 - VESSEL POSITIONING WAS OBTAINED BY A TRIMBLE, REAL-TIME DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS).
 - SIDE SCAN SONAR SURVEY CONDUCTED USING AN EDGETECH DUAL-FREQUENCY (600kHz/1600kHz) CHIRP SIDE SCAN SONAR SYSTEM, MODEL 4125. MAGNETOMETER SURVEY WAS CONDUCTED WITH A GEOMETRICS MODEL G-882 MARINE MAGNETOMETER. DATA COLLECTION AND INTERPRETATION WAS ASSISTED BY SONOGRAPHICS, INC.
 - UNDERGROUND IMPROVEMENTS OR UTILITIES SHOULD BE FIELD VERIFIED PRIOR TO ANY DREDGING OR CONSTRUCTION.
 - GEOGRAPHICAL FEATURES SUCH AS ROADWAYS AND SHORELINES, WERE NOT LOCATED DURING THE COURSE OF THE SURVEY AND ARE SHOWN FOR GRAPHICAL PURPOSES ONLY.
 - THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF THE SURVEY ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THE TIME.
 - AERIAL PHOTOGRAPHY OBTAINED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION AND IS PROVIDED FOR GRAPHICAL PURPOSES ONLY. FLIGHT DATE 2012.
 - THIS SPECIAL PURPOSE SURVEY IS NOT VALID WITHOUT THE RAISED SEAL AND THE ORIGINAL SIGNATURE OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER.

I HEREBY CERTIFY THAT THE SPECIAL PURPOSE SURVEY SHOWN HEREON IS BASED ON A RECENT FIELD SURVEY CONDUCTED UNDER MY PERSONAL DIRECTION AND IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

WILLIAM T. SADLER JR., P.E., P.S.M.
FLORIDA PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA REGISTRATION NO. 5859

DATE:

REVISIONS:	
NO.:	DATE:

PROJECT:
SUBMERGED UTILITY INVESTIGATION
OF ICWW CUT-8 THROUGH CUT-27D

SHEET TITLE:
COVER

PREPARED FOR:



TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD
BLDG. 300, SUITE 300
JACKSONVILLE, FL 32256

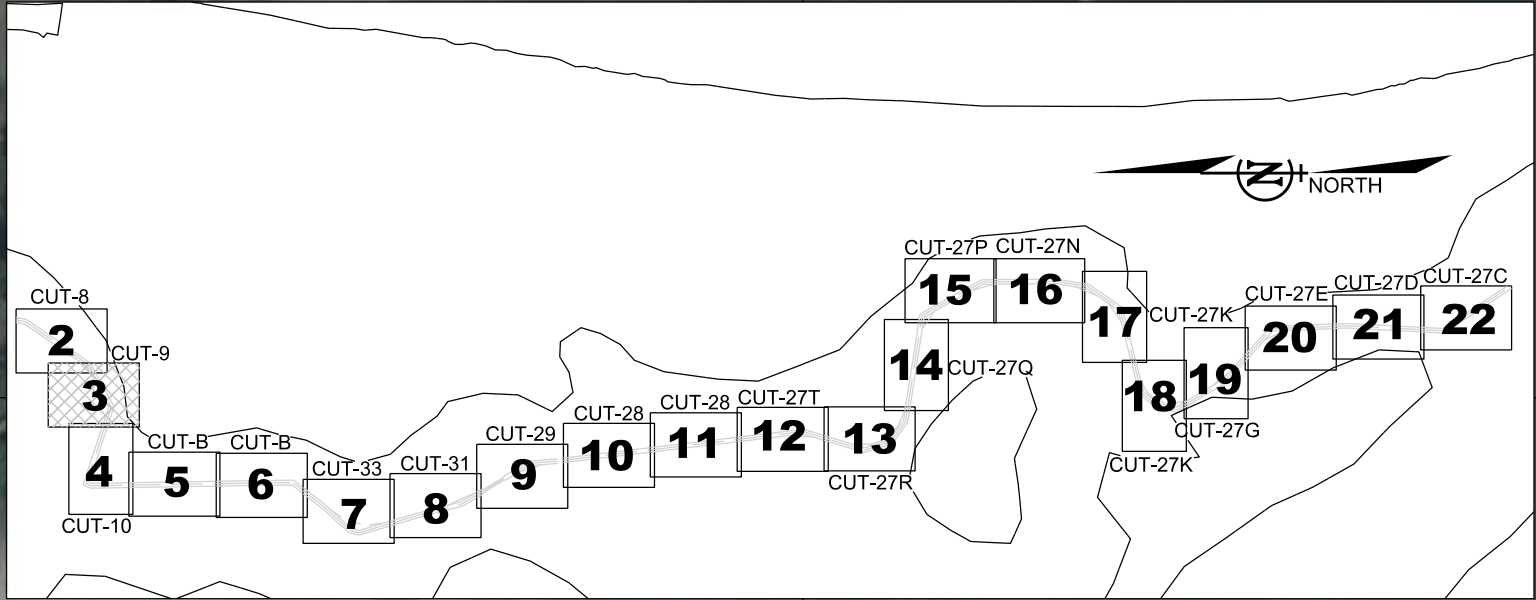
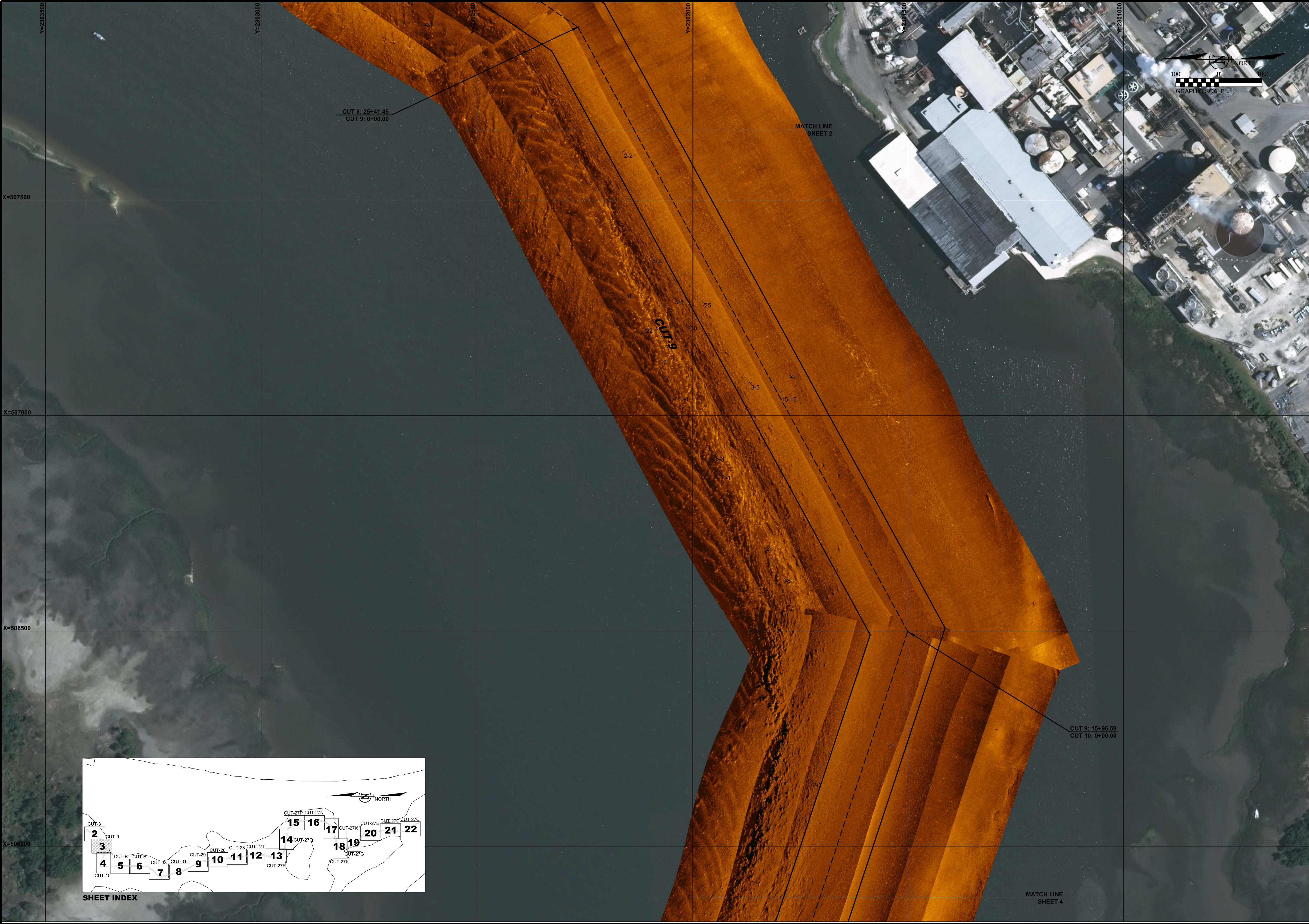
PREPARED BY:

SEA DIVERSIFIED, INC.
Surveying and Engineering Applications

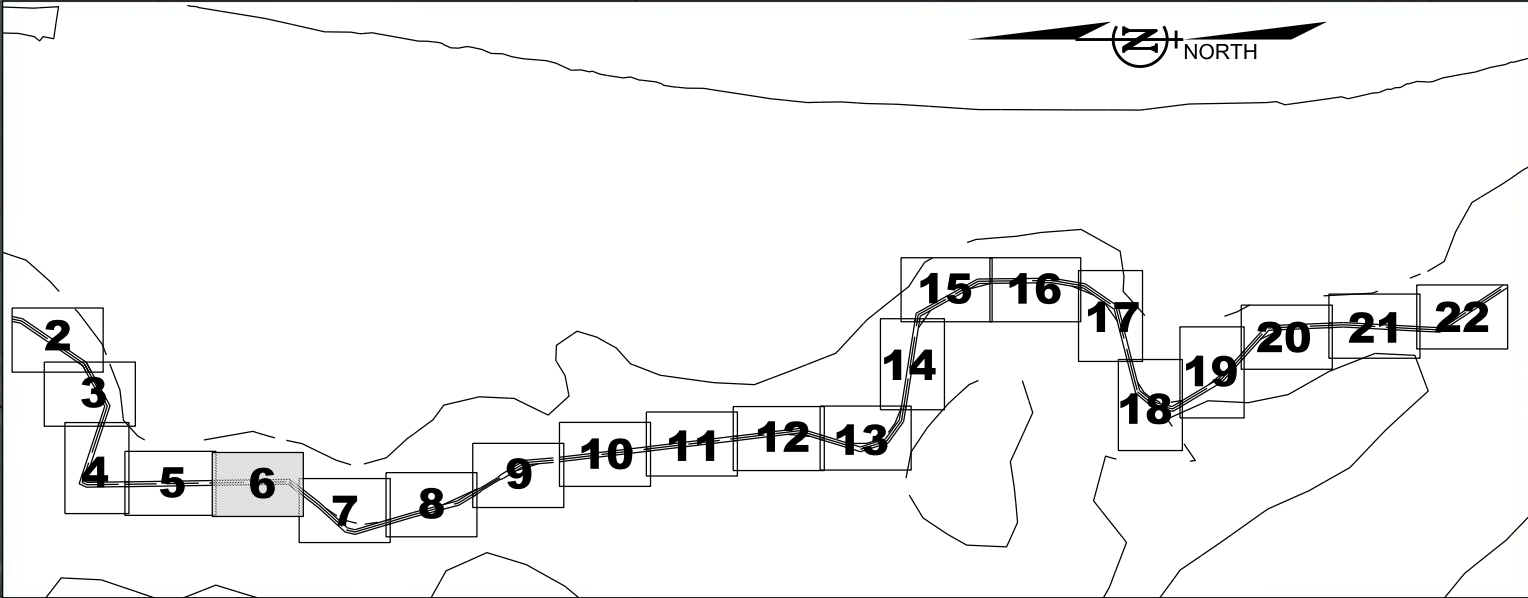
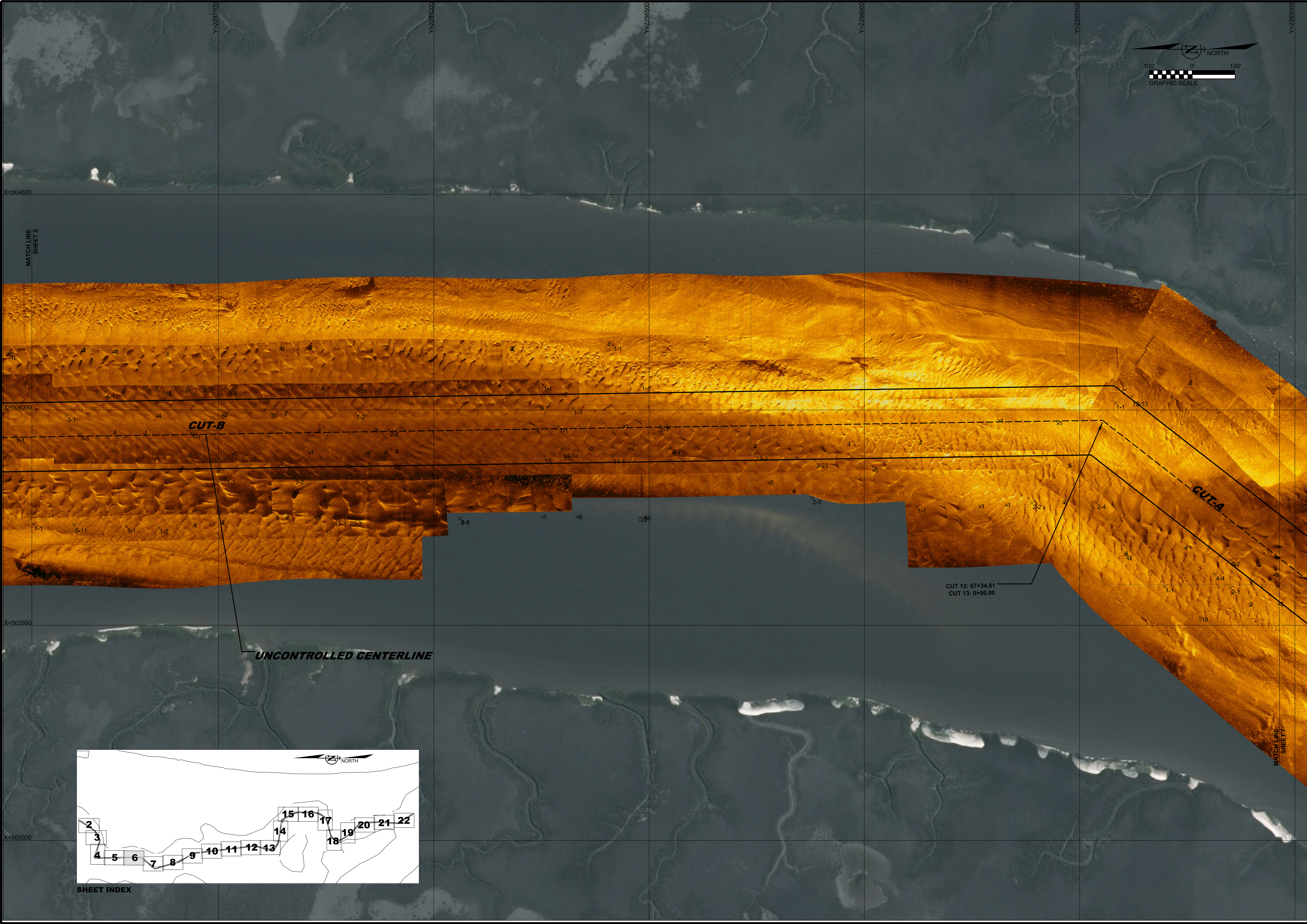
21 NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
WWW.SEADIVERSIFIED.COM



DATE:	12-2015
DRAWN BY:	P.O.
CHECKED BY:	R.W.B.
SCALE:	AS SHOWN
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CADD ID: 152309_SH1.DGN TOTAL NUMBER OF SHEETS: 22	

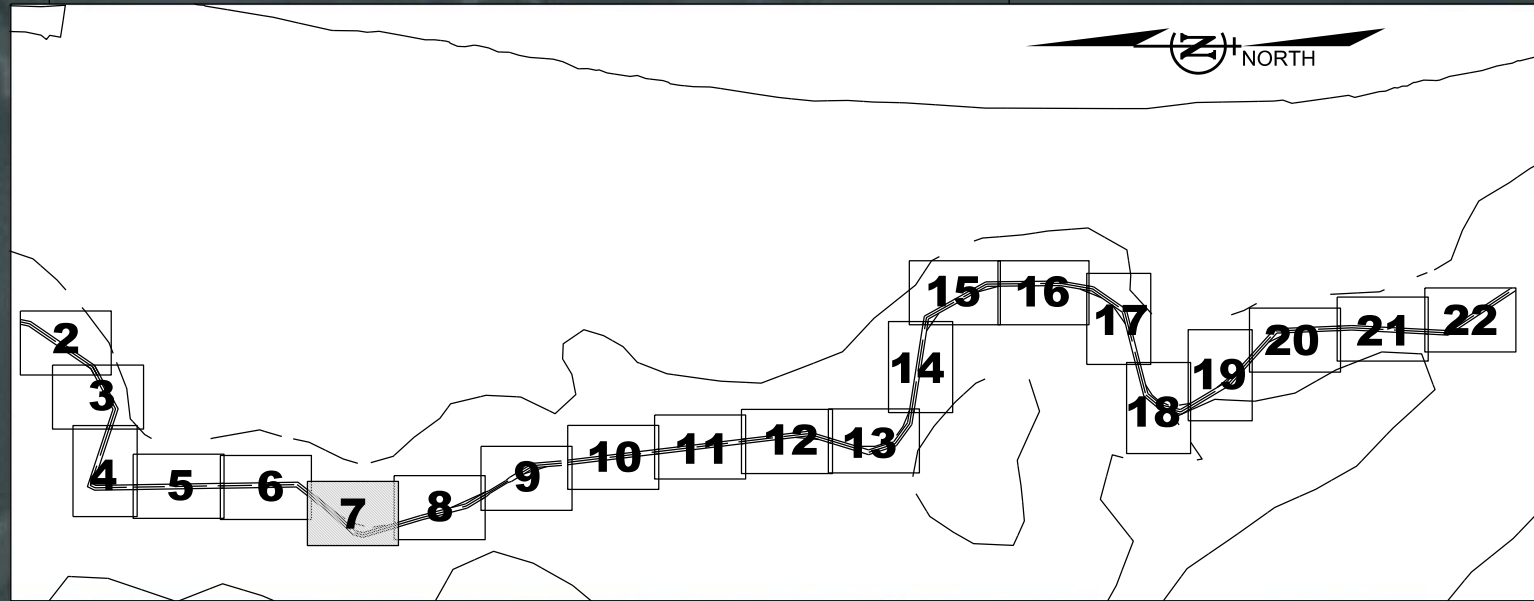
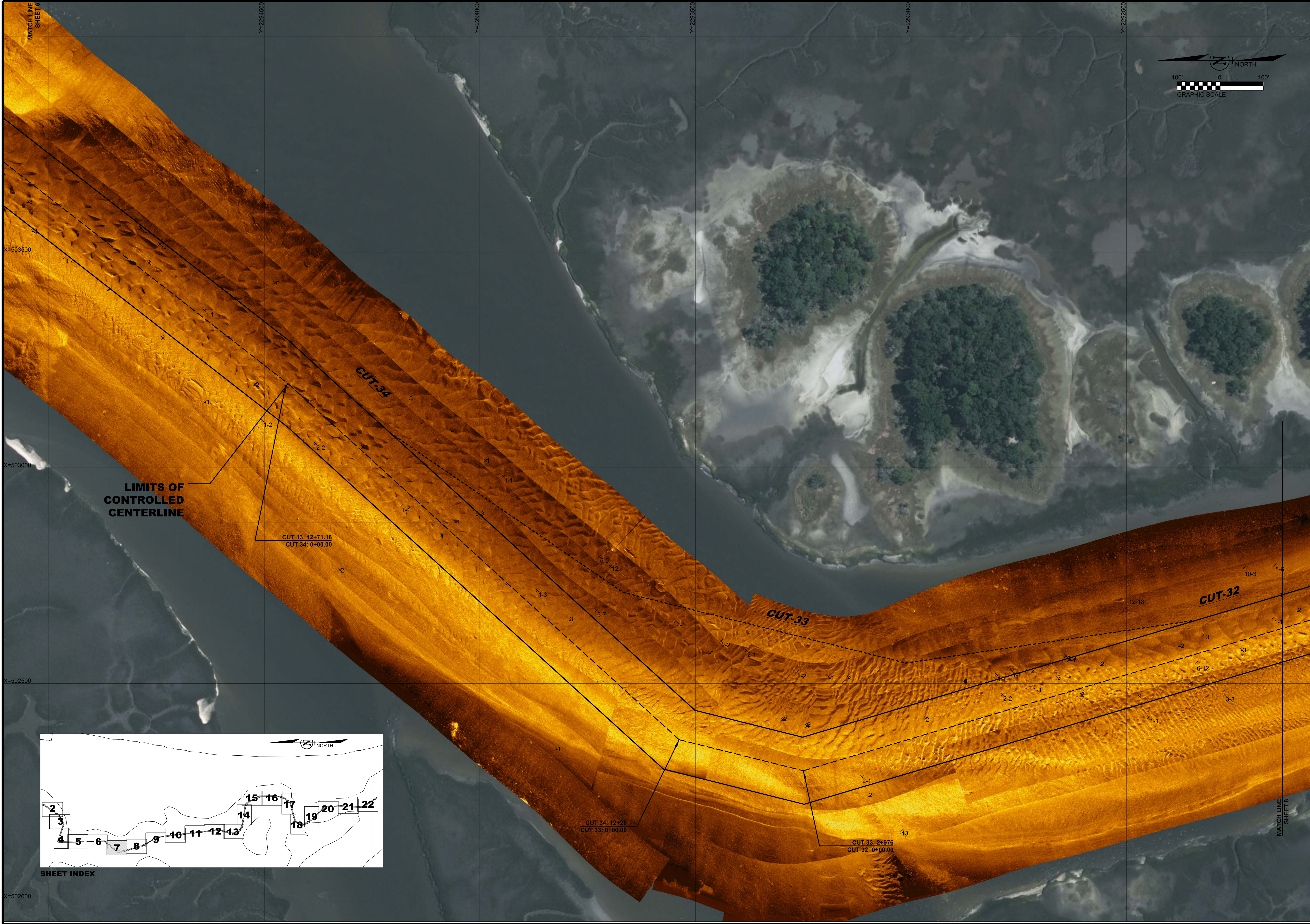


NO.:		DATE:		DESCRIPTION:	
PROJECT:				SUBMERGED UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT-27D	
PREPARED FOR:				TAYLOR ENGINEERING INC. 101 BLVD. 300, SUITE 300 JACKSONVILLE, FL 32256	
SEA DIVERSIFIED, INC. Surveying and Engineering Applications 21 NW 2ND STREET DELRAY BEACH, FLORIDA 33444 TEL: (561) 243-4920 FAX: (561) 243-4957 WWW.SEA DIVERSIFIED.COM				PLAN VIEW SIDESCAN / MAGNETOMETER	
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DRAWN BY:				P.O.	
CHECKED BY:				R.W.B.	
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SHEET INDEX

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SHEET TITLE: PLAN VIEW SIDESCAN / MAGNETOMETER	
PREPARED FOR: SEA DIVERSIFIED, INC. Surveying and Engineering Applications 21 NW 2ND STREET DELRAY BEACH, FLORIDA 33444 TEL: (561) 243-4920 FAX: (561) 243-4957 WWW.SEA DIVERSIFIED.COM	PREPARED BY: TAYLOR ENGINEERING INC. TAYLOR ENGINEERING INC. 101 BLVD. 300, SUITE 300 JACKSONVILLE, FL 32256
DATE: 12-2015	DRAWN BY: P.O.
CHECKED BY: R.W.B.	SCALE: AS SHOWN
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PROJECT:

SUBMERGED UTILITY INVESTIGATION
OF ICWW CUT-8 THROUGH CUT-27D

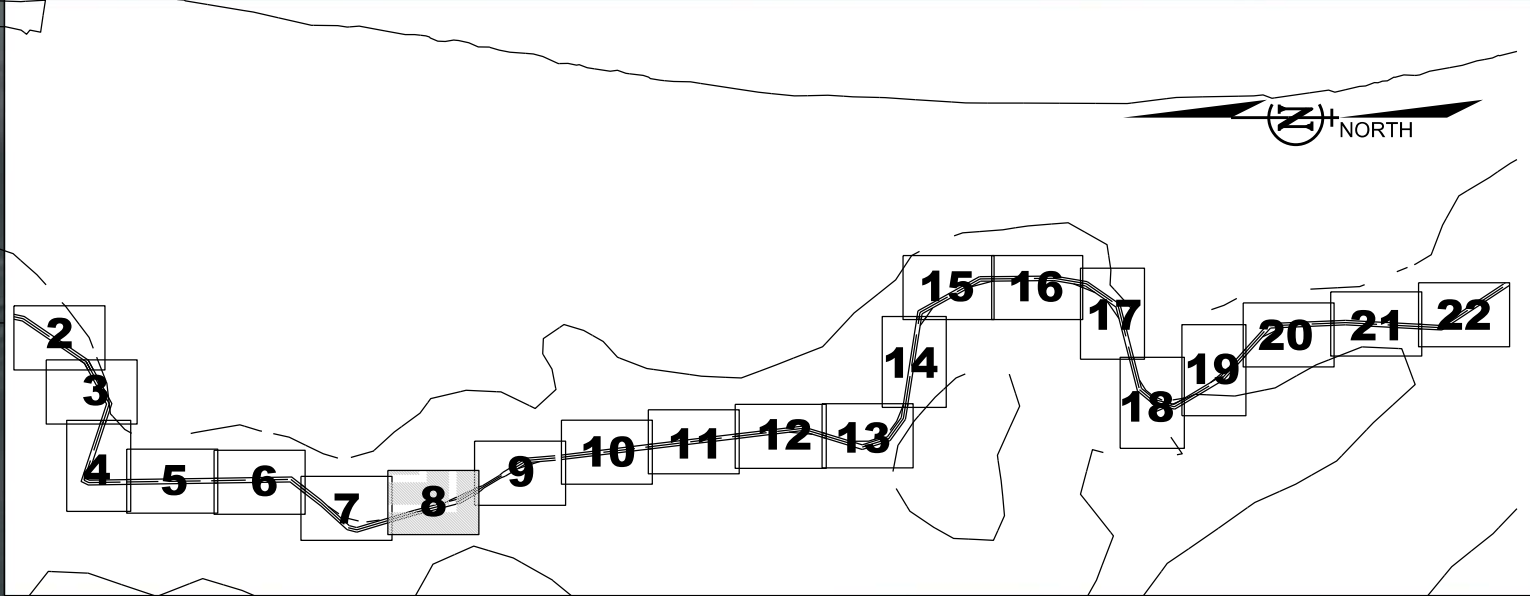
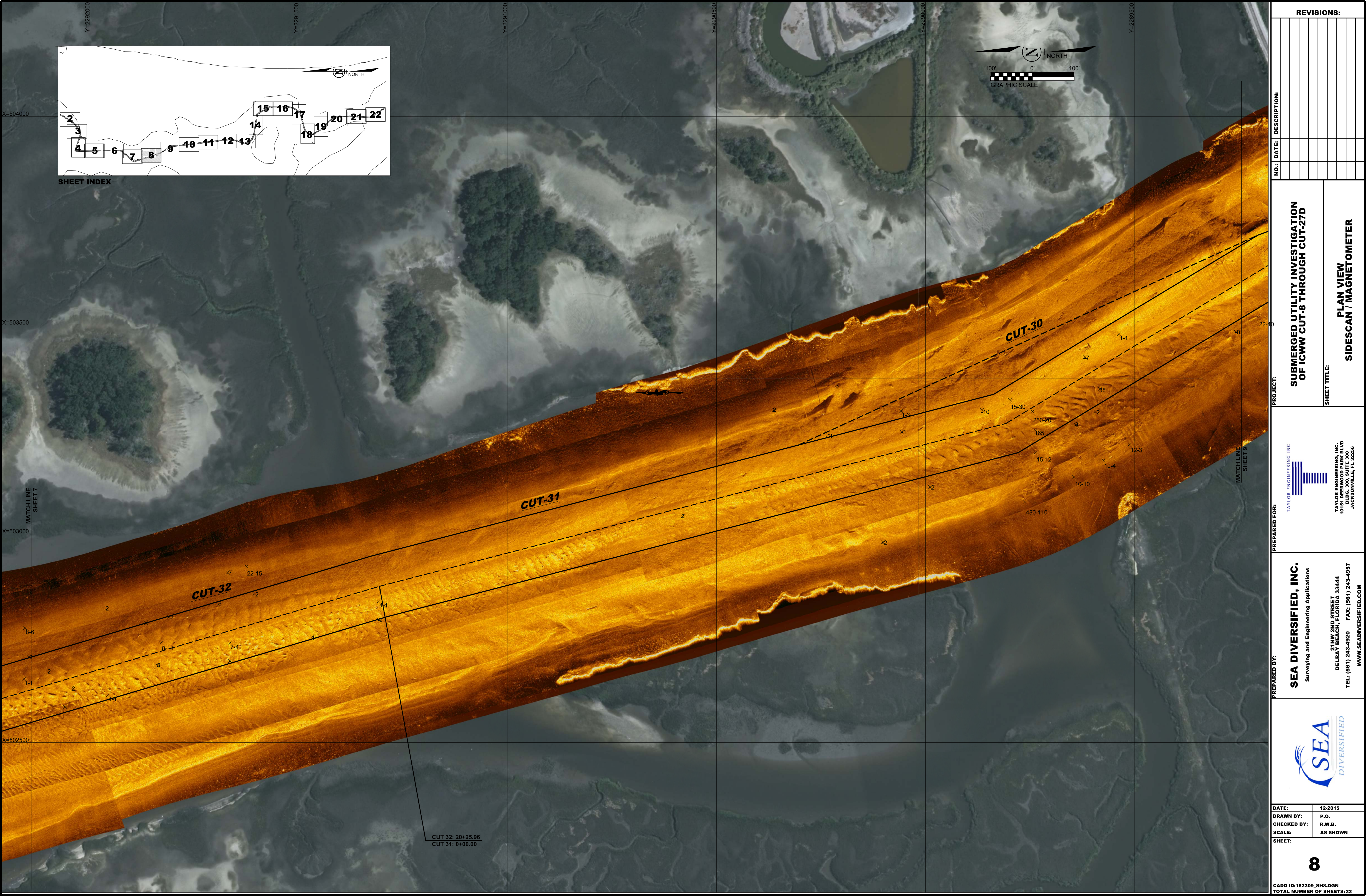
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PLAN VIEW
SIDESCAN / MAGNETOMETER

PREPARED FOR:

SEA DIVERSIFIED, INC.
Surveying and Engineering Applications
21 NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
WWW.SEADIVERSIFIED.COM

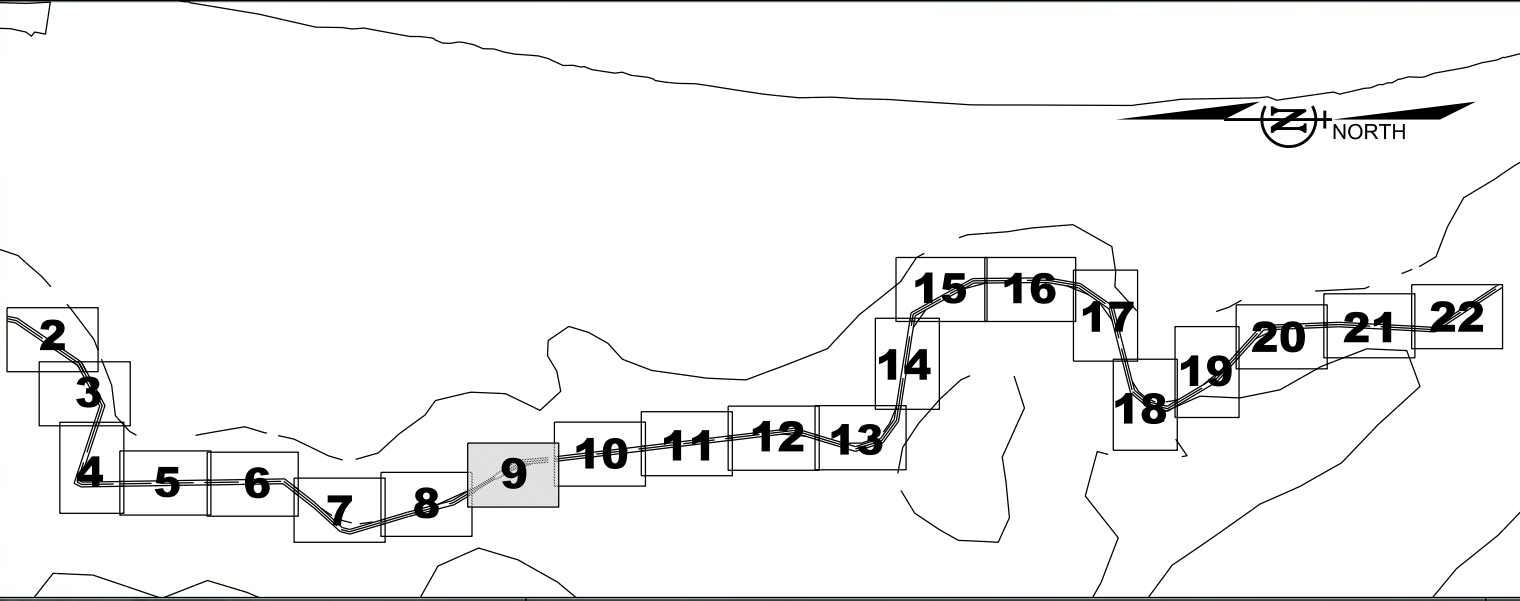
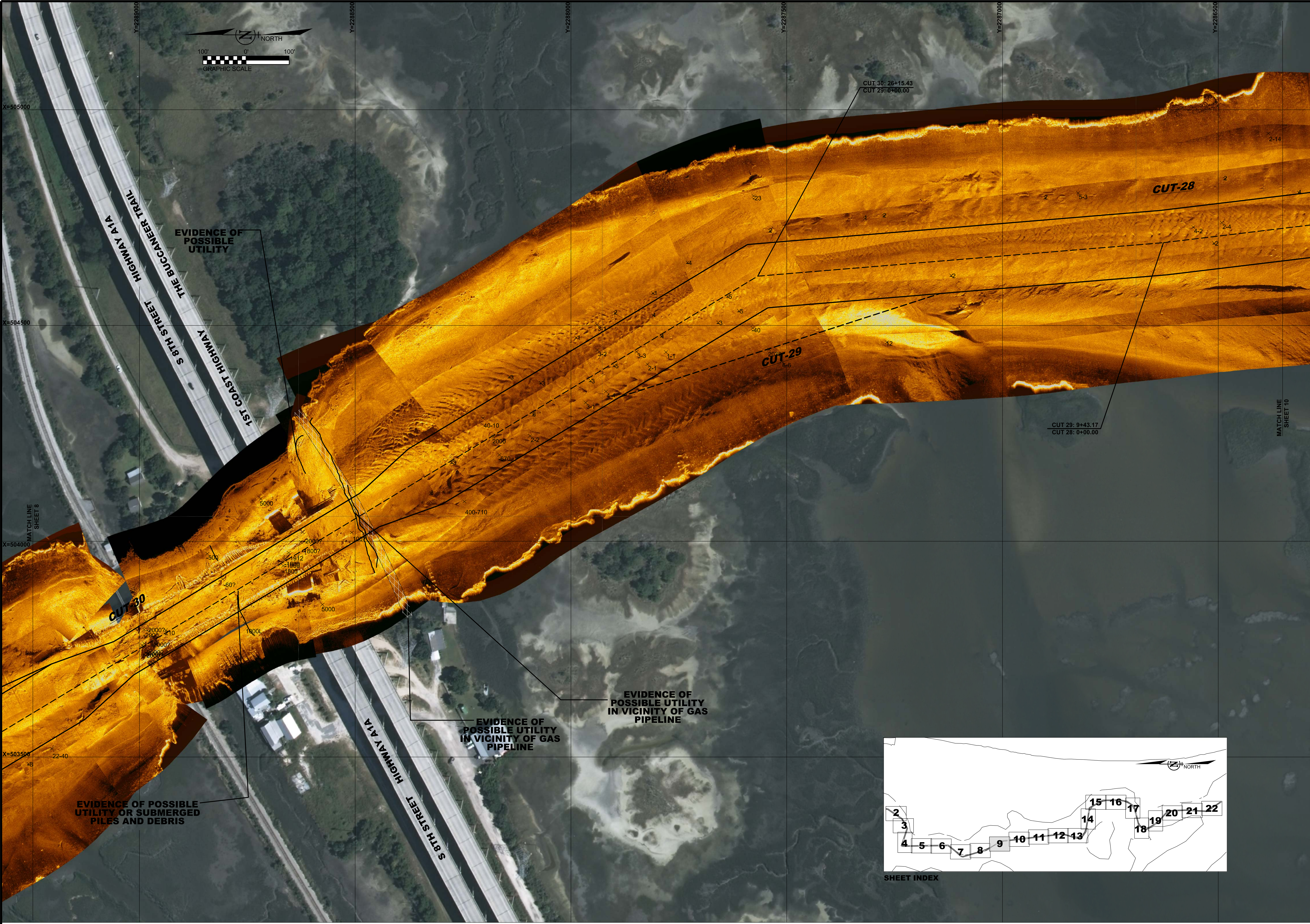
TAYLOR ENGINEERING INC.
101 BLVD. 300, SUITE 300
JACKSONVILLE, FL 32256



DATE: 12-2015
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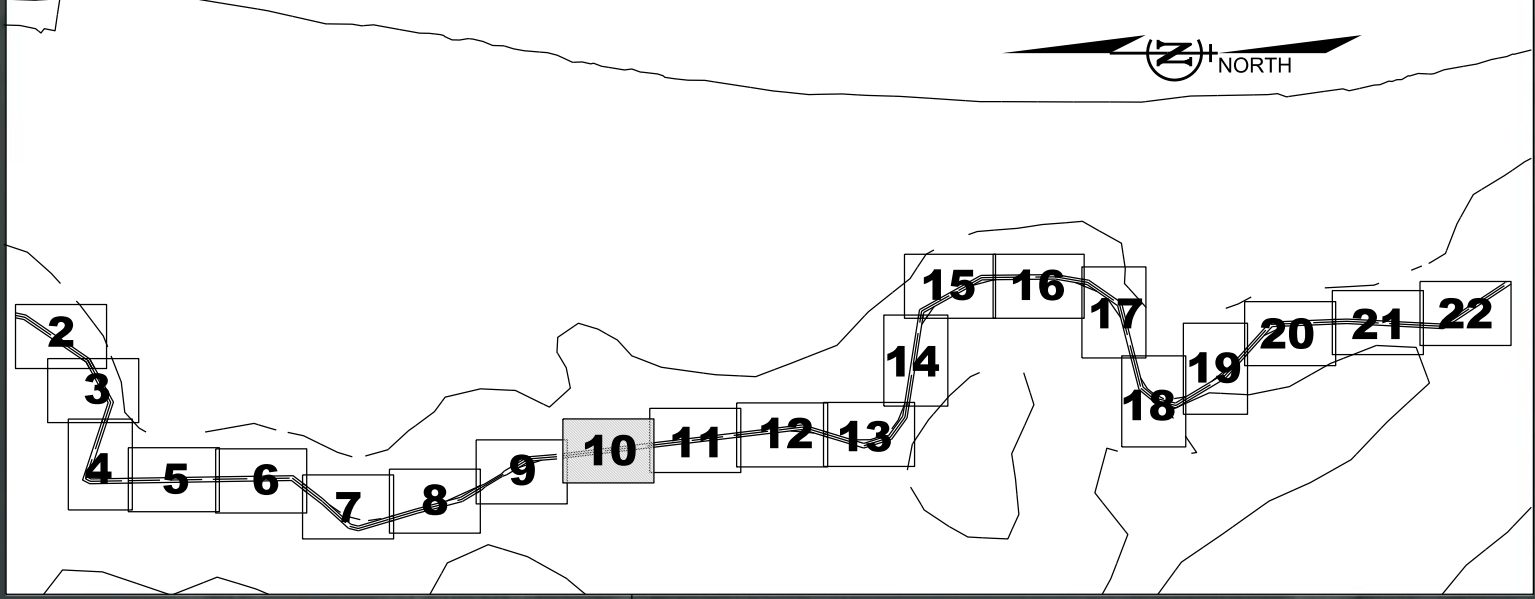
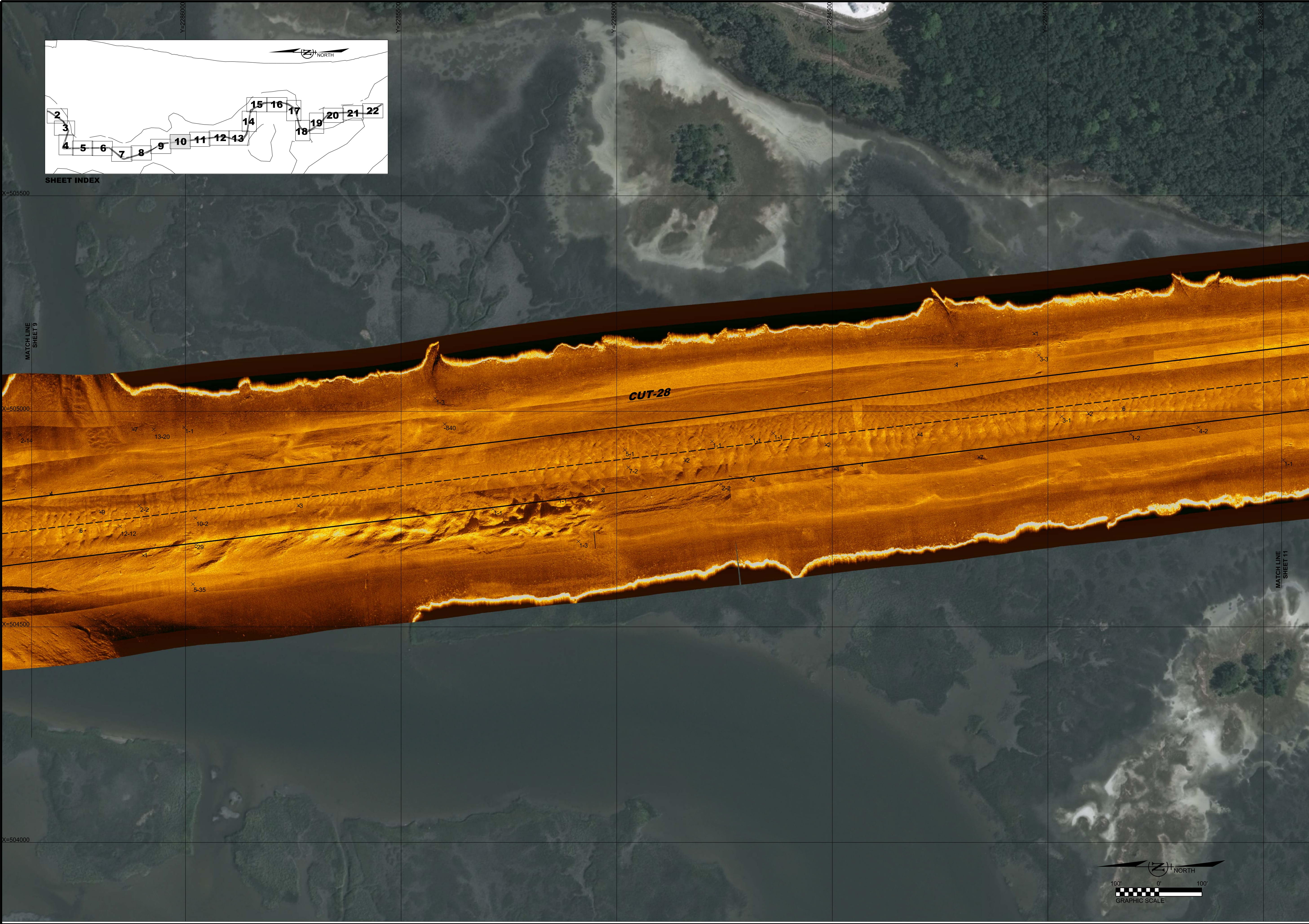


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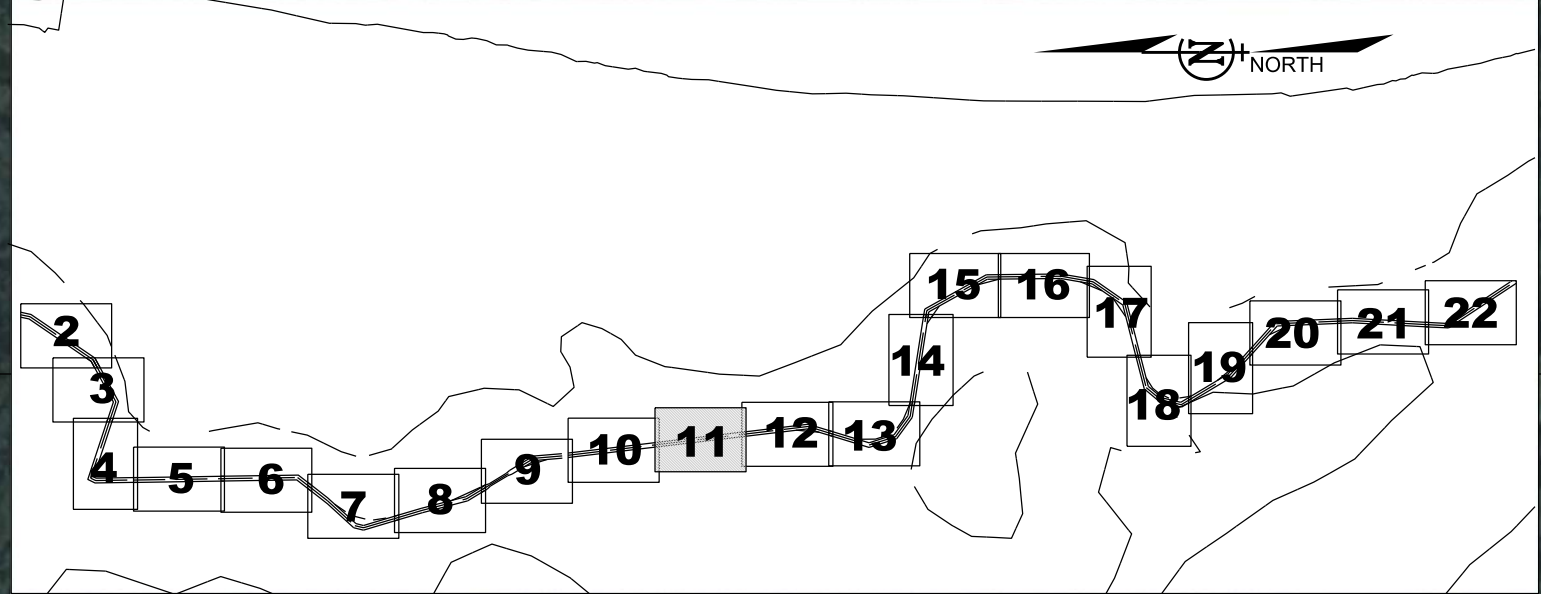
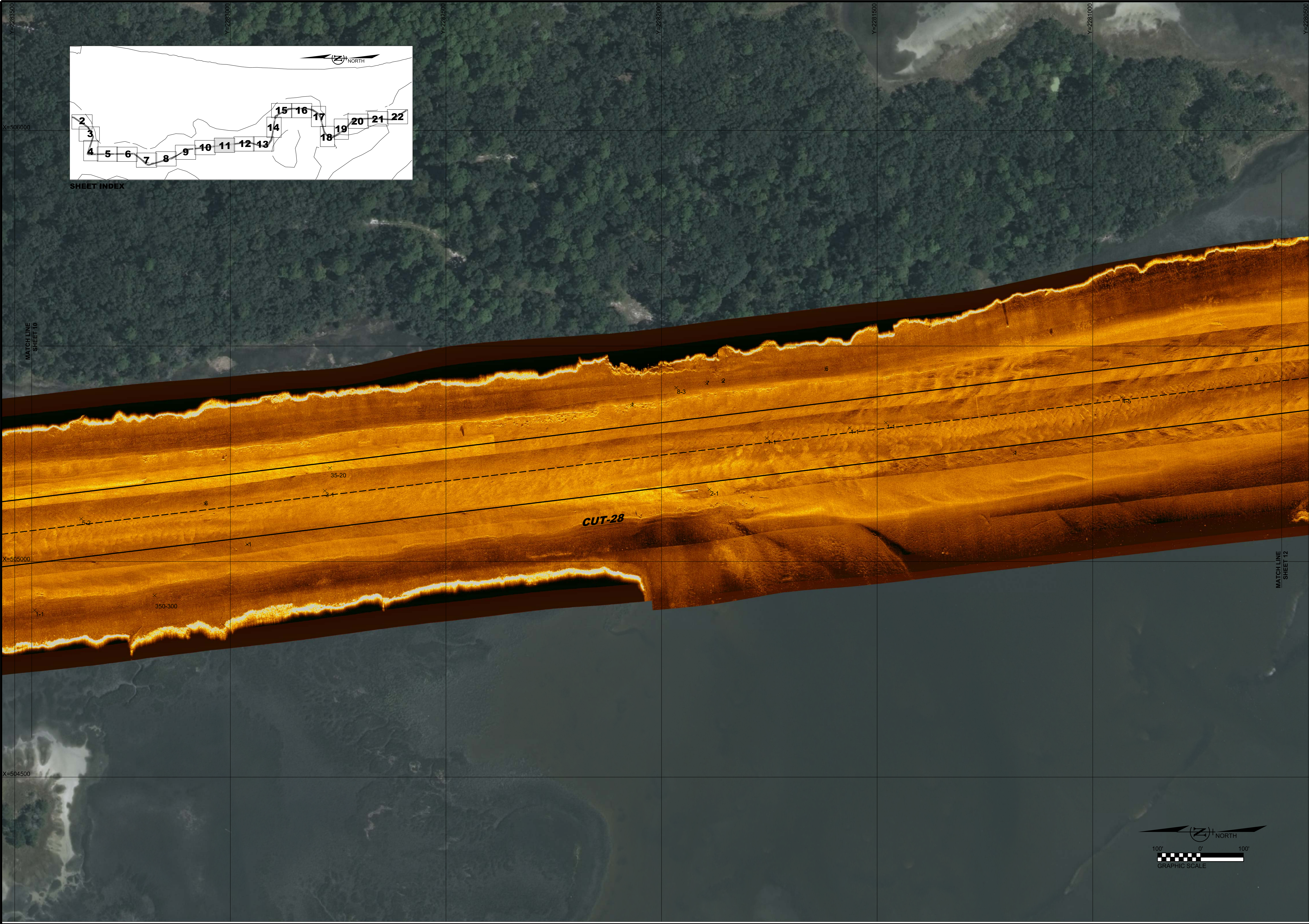


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DATE: 12-2015	DRAWN BY: P.O.
CHECKED BY: R.W.B.	SCALE: AS SHOWN
SHEET: 9	
CADD ID: 152309_SH9.DGN TOTAL NUMBER OF SHEETS: 22	



SHEET INDEX

	DATE:	12-2015
	DRAWN BY:	P.O.
SEA DIVERSIFIED, INC. Surveying and Engineering Applications 21 NW 2ND STREET DELRAY BEACH, FLORIDA 33444 TEL: (561) 243-4920 FAX: (561) 243-4957 WWW.SEA DIVERSIFIED.COM	CHECKED BY:	R.W.B.
	SCALE:	AS SHOWN
PREPARED BY:	PROJECT:	
 TAYLOR ENGINEERING INC. 1010 BLVD. 300, SUITE 300 JACKSONVILLE, FL 32256	SUBMERGED UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT-27D	
	SHEET TITLE:	
NO.: DATE: DESCRIPTION:		
10		
CADD ID: 152309_SH10.DGN TOTAL NUMBER OF SHEETS: 22		



DATE:12-2015

DRAWN BY:P.O.

CHECKED BY:R.W.B.

SCALE:AS SHOWN

SHEET:11

CADD ID:152309_SH11.DGN
TOTAL NUMBER OF SHEETS: 22

PREPARED BY:
SEA DIVERSIFIED, INC.
Surveying and Engineering Applications
21NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
WWW.SEADIVERSIFIED.COM

PREPARED FOR:

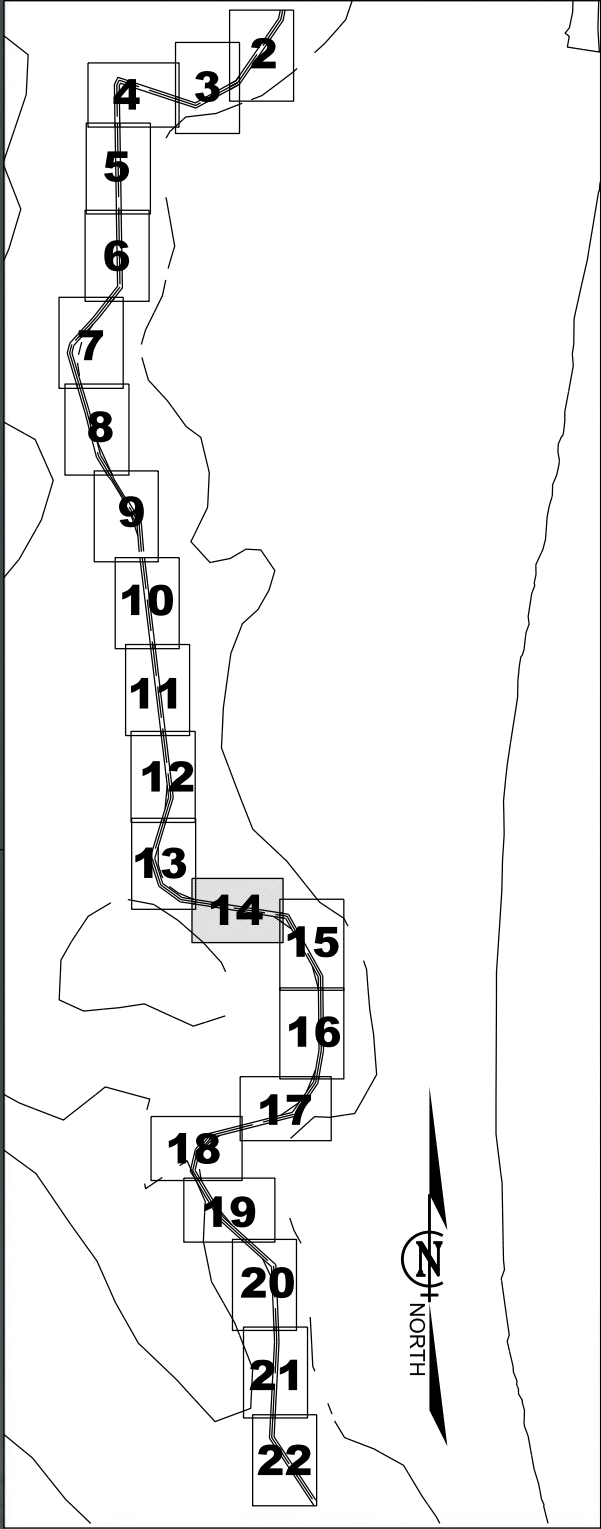
TAYLOR ENGINEERING INC.
1010 BLVD. 3RD. SUITE 300
JACKSONVILLE, FL 32256

PROJECT:
**SUBMERGED UTILITY INVESTIGATION
OF ICWW CUT-8 THROUGH CUT-27D**

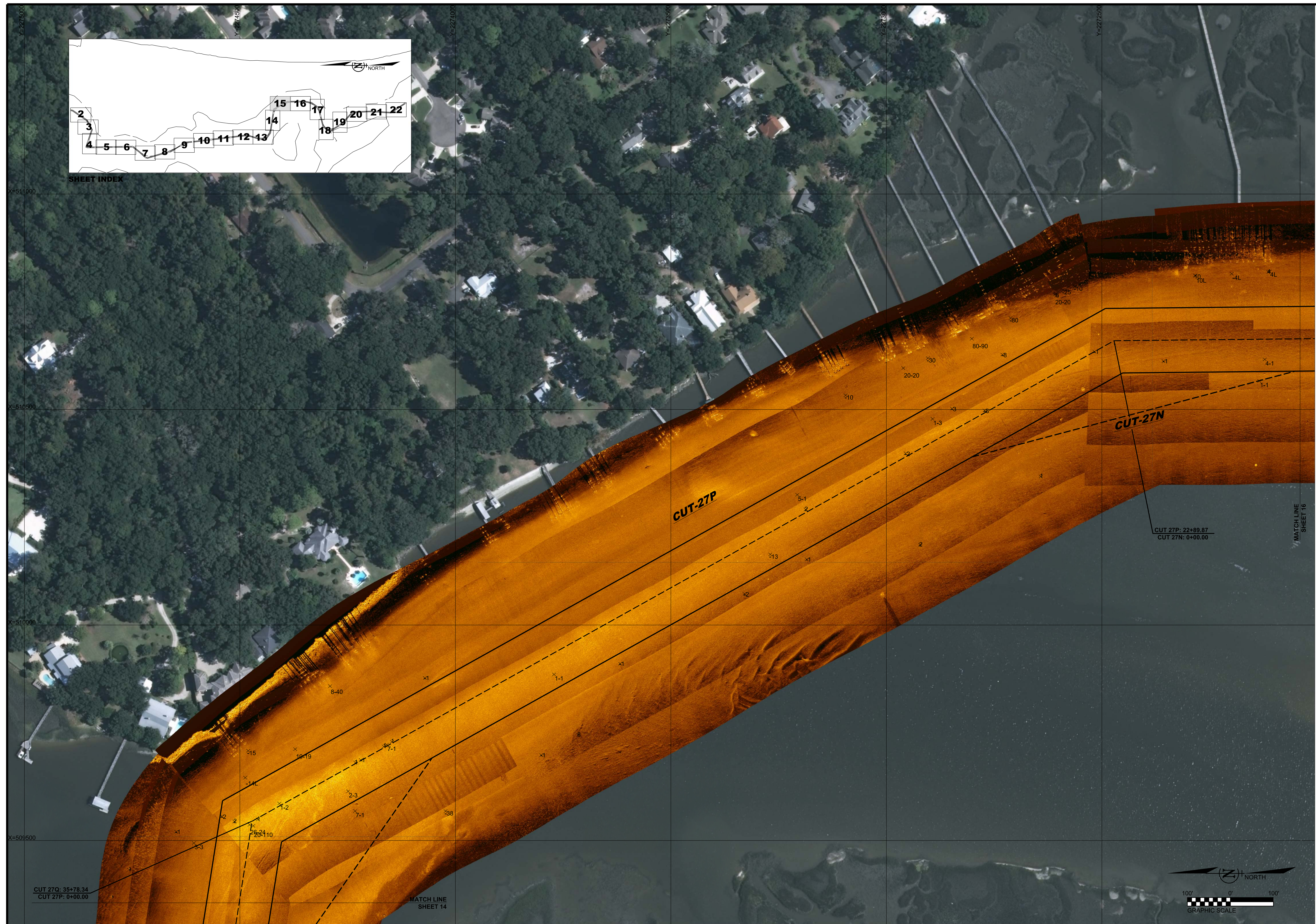
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**PLAN VIEW
SIDESCAN / MAGNETOMETER**

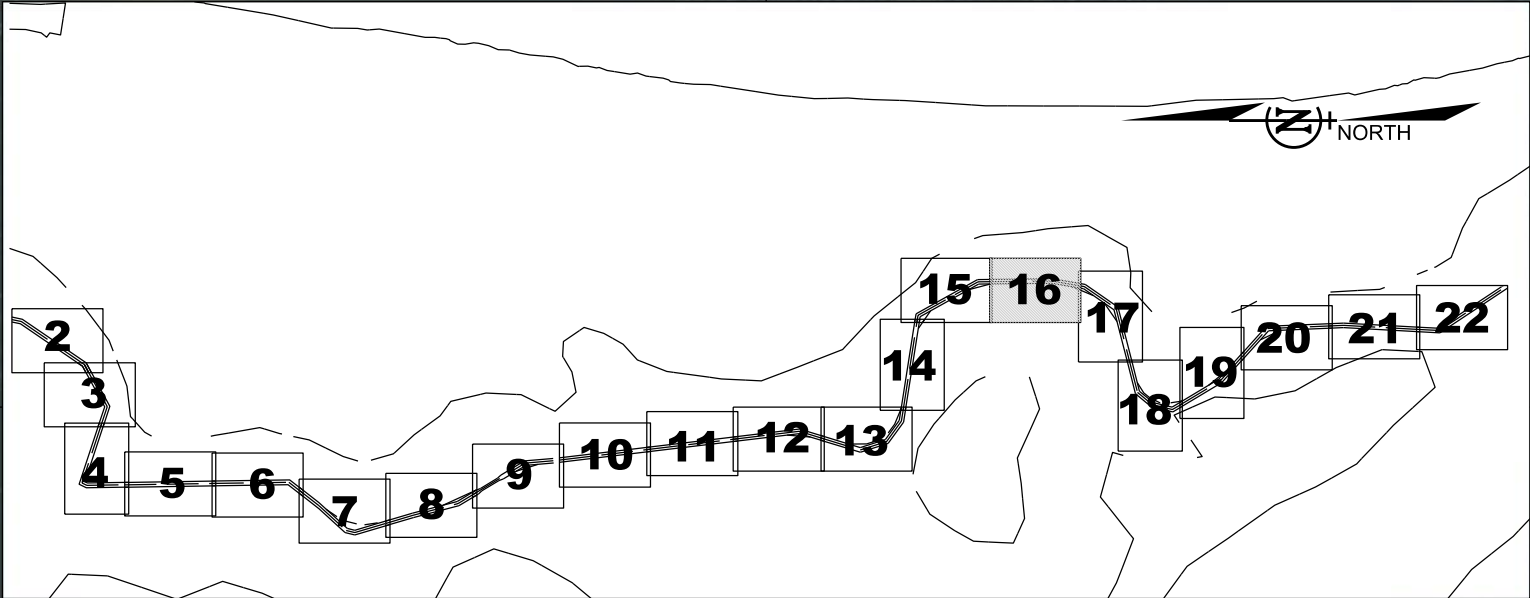
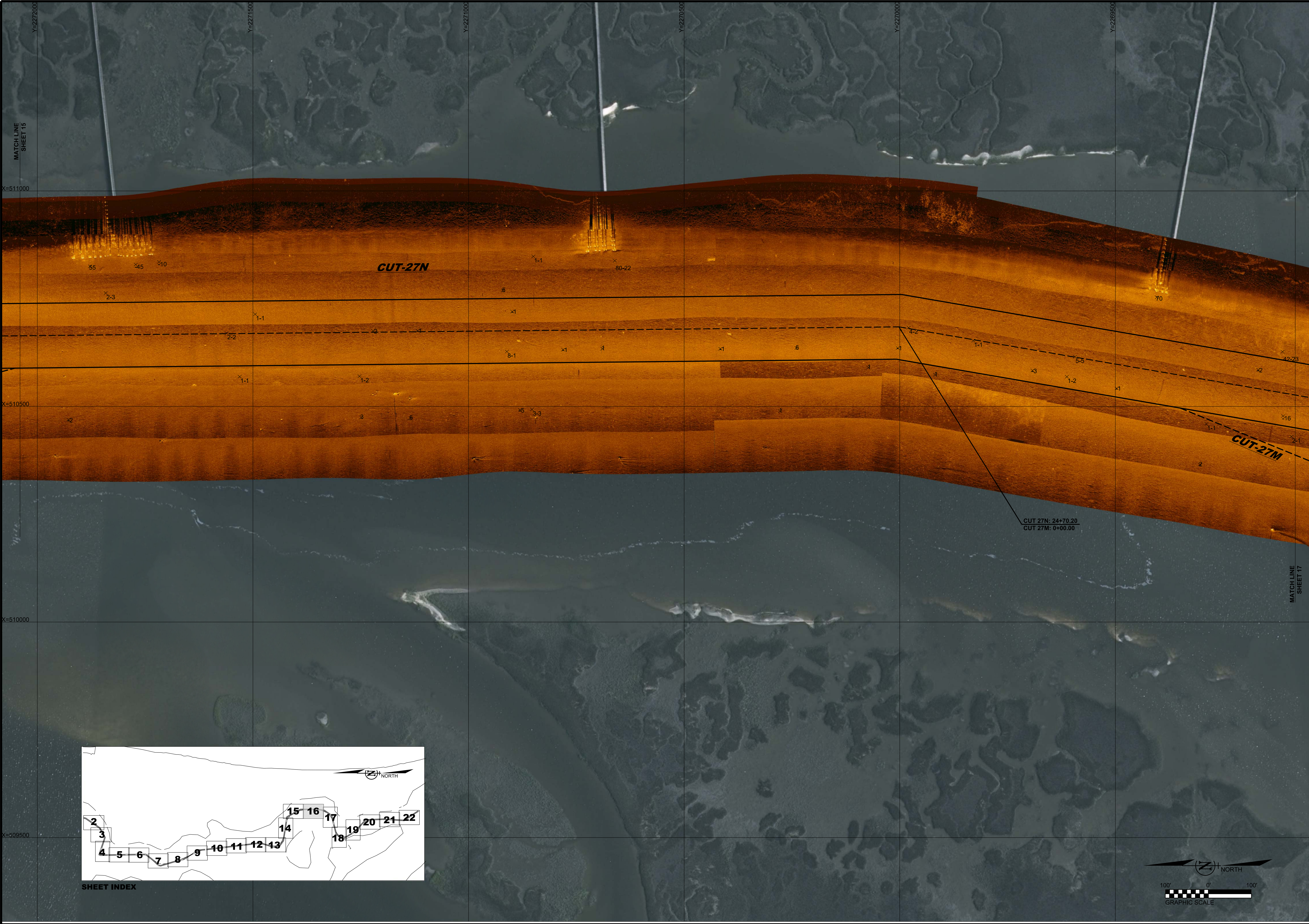
NO.:		DATE:	DESCRIPTION:

REVISIONS:



REVISIONS:	
NO.:	DATE: DESCRIPTION:
PROJECT: SUBMERGED UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT-27D	
SHEET TITLE: PLAN VIEW SIDESCAN / MAGNETOMETER	
PREPARED FOR: TAYLOR ENGINEERING INC. TAYLOR ENGINEERING INC. 1010 BLVD. 300, SUITE 300 JACKSONVILLE, FL 32256	
PREPARED BY: SEA DIVERSIFIED, INC. Surveying and Engineering Applications DELRAY BEACH, FLORIDA 33444 TEL: (561) 243-4920 FAX: (561) 243-4957 WWW.SEA DIVERSIFIED.COM	
DATE: 12-2015	P.O.:
DRAWN BY: P.O.	CHECKED BY: R.W.B.
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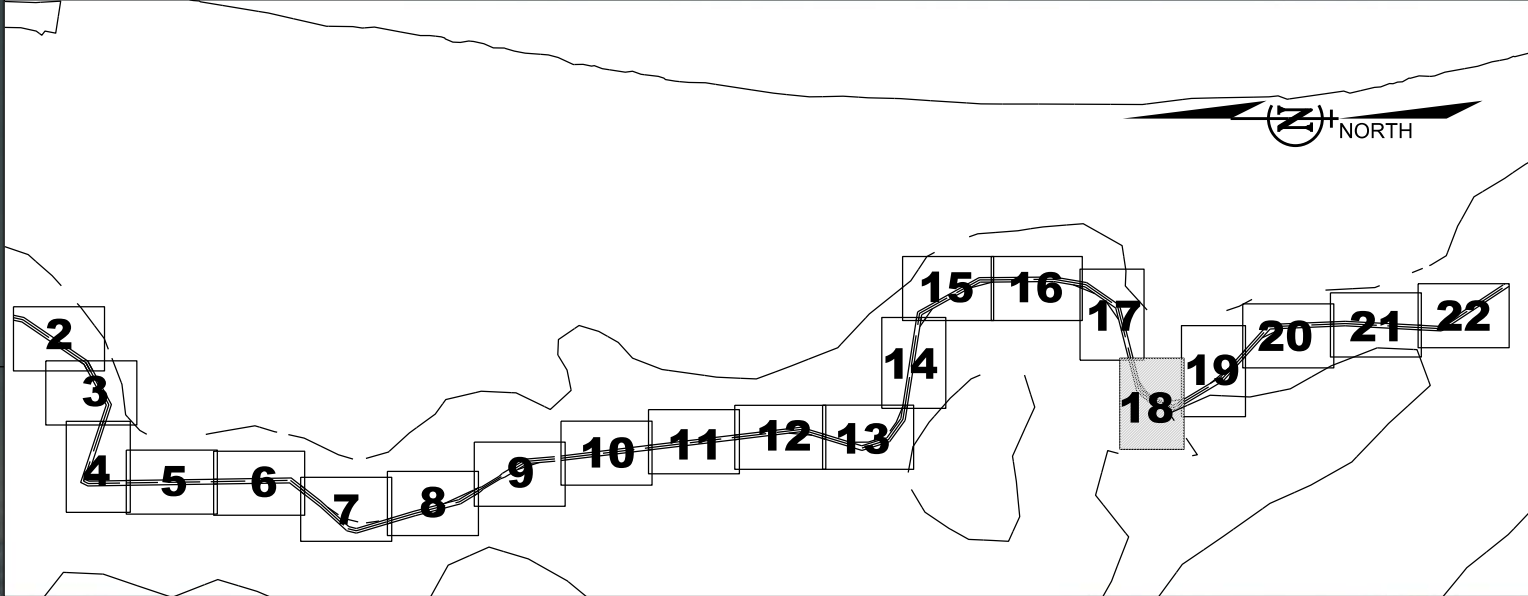
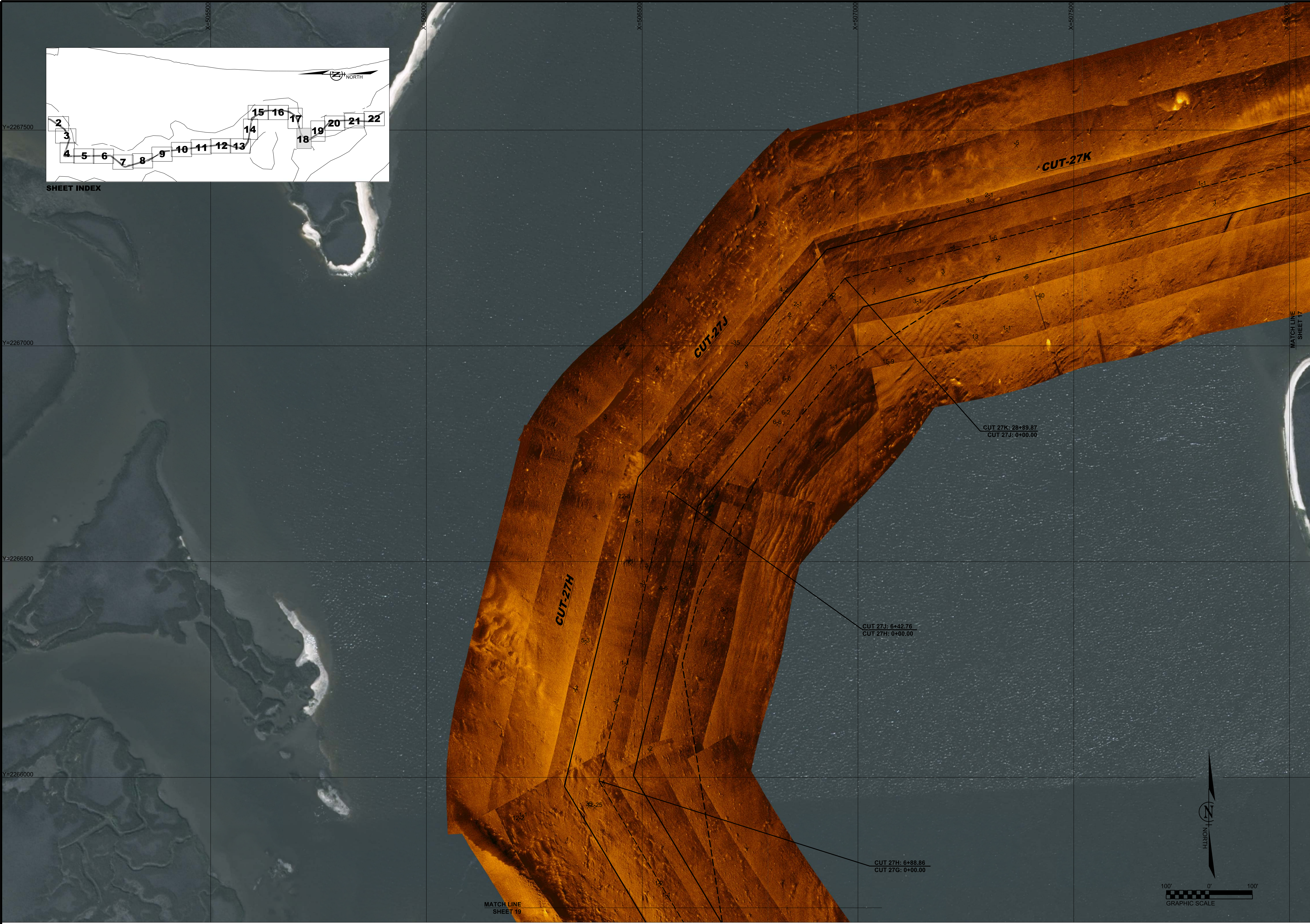




SHEET INDEX

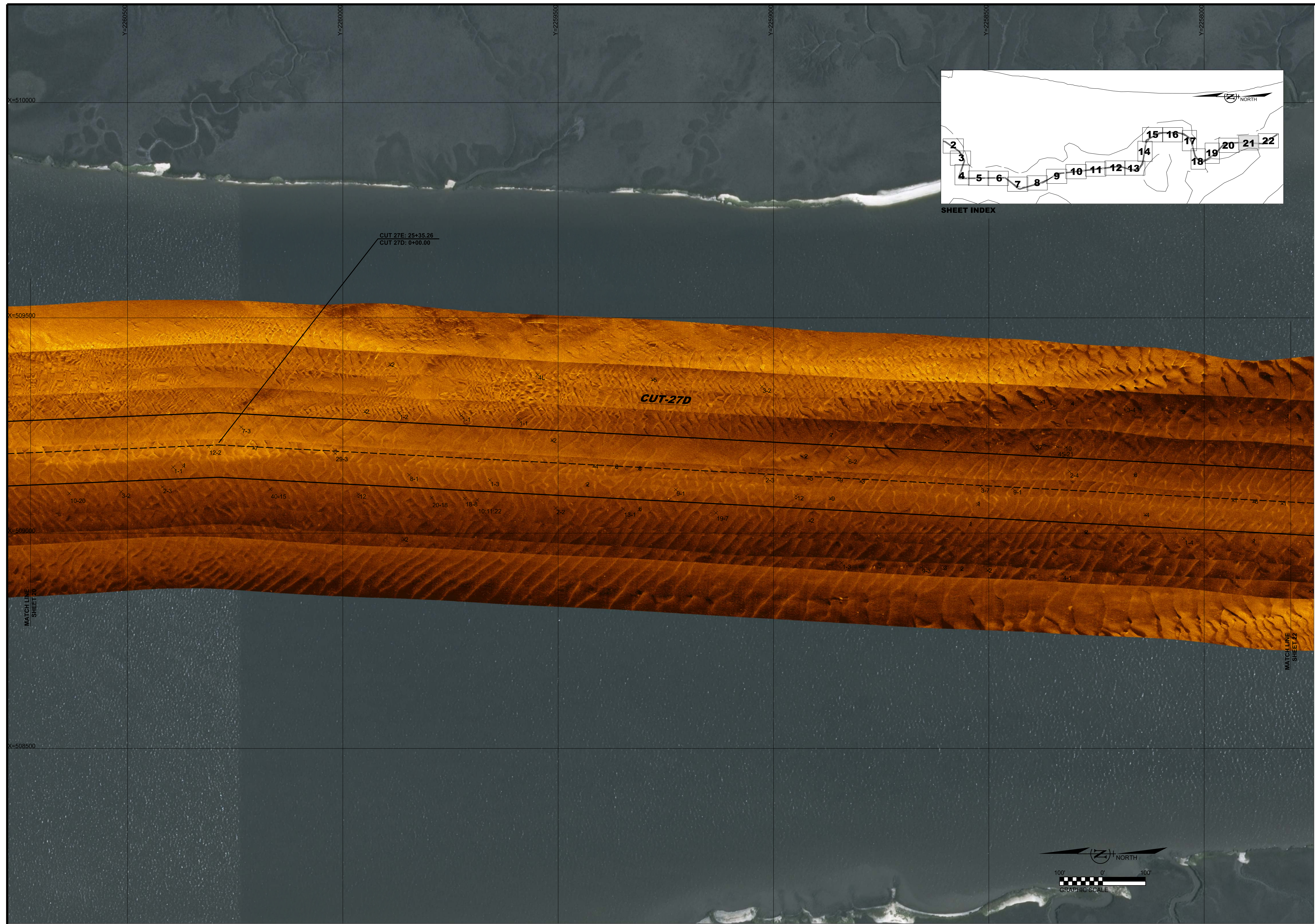



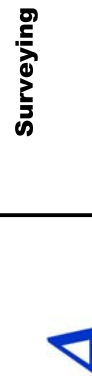
NO.:	DATE:	DESCRIPTION:	REVISIONS:	
PROJECT:			SUBMERGED UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT-27D	
PREPARED FOR:			SHEET TITLE: PLAN VIEW SIDESCAN / MAGNETOMETER	
SEA DIVERSIFIED, INC. Surveying and Engineering Applications 21 NW 2ND STREET DELRAY BEACH, FLORIDA 33444 TEL: (561) 243-4920 FAX: (561) 243-4957 WWW.SEA DIVERSIFIED.COM			TAYLOR ENGINEERING INC. 101 BLVD. 300, SUITE 300 JACKSONVILLE, FL 32256	
DATE:			12-2015	
DRAWN BY:			P.O.	
CHECKED BY:			R.W.B.	
SCALE:			AS SHOWN	
SHEET:			16	
CADD ID: 152309_SH16.DGN TOTAL NUMBER OF SHEETS: 22				



SHEET INDEX

REVISIONS:	
NO.:	DATE: DESCRIPTION:
PROJECT: SUBMERGED UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT-27D	
SHEET TITLE: PLAN VIEW SIDESCAN / MAGNETOMETER	
PREPARED FOR:	TAYLOR ENGINEERING INC. TAYLOR ENGINEERING INC. 1010 BLVD. 300, SUITE 300 JACKSONVILLE, FL 32256
PREPARED BY:	SEA DIVERSIFIED, INC. Surveying and Engineering Applications 21 NW 2ND STREET DELRAY BEACH, FLORIDA 33444 TEL: (561) 243-4920 FAX: (561) 243-4957 WWW.SEADIVERSIFIED.COM
DATE:	12-2015
DRAWN BY:	P.O.
CHECKED BY:	R.W.B.
SCALE:	AS SHOWN
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CADD ID: 152309_SH18.DGN TOTAL NUMBER OF SHEETS: 22	



SEA DIVERSIFIED, INC. Surveying and Engineering Applications 21NW 2ND STREET DELRAY BEACH, FLORIDA 33444 TEL: (561) 243-4920 FAX: (561) 243-4957 WWW.SEAADIVERSIFIED.COM		PREPARED BY:		 TAYLOR ENGINEERING INC. 10000 W. STATE ROAD BLDG. 300, SUITE 300 JACKSONVILLE, FL 32256	PROJECT: SUBMERGED UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT-27D	NO.: DATE: DESCRIPTION:	REVISIONS:
		SHEET TITLE: PLAN VIEW SIDESCAN / MAGNETOMETER					
		DATE: 12-2015					
		DRAWN BY: P.O.					
		CHECKED BY: R.W.B.					
		SCALE: AS SHOWN					
SHEET:							
21							
CADD ID:152309_SH21.DGN TOTAL NUMBER OF SHEETS: 22							



Appendix C

Magnetic Anomaly Locations

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D

MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
10-10	509098.00	2303851.00	47095.00
4-4	508894.00	2303554.00	47088.00
1-1	508716.00	2303290.00	47080.00
-1	508662.00	2303209.00	47078.00
3	508426.00	2302869.00	47079.00
-4	509064.00	2303879.00	47091.00
-1	508939.00	2303697.00	47092.00
-1	508904.00	2303645.00	47092.00
1-1	508839.00	2303552.00	47091.00
17-2	504543.00	2302037.00	47107.00
2-2	506152.00	2301722.00	47070.00
-1L	505716.00	2301809.00	47077.00
14-6	504938.00	2302062.00	47092.00
4-4L	503764.00	2301892.00	47069.00
4-4	503765.00	2301889.00	47070.00
3-1	503778.00	2301157.00	47077.00
19-18	503794.00	2300811.00	47076.00
-1	503794.00	2300708.00	47073.00
6	503792.00	2300514.00	47080.00
-1	503799.00	2300402.00	47072.00
2-1	503802.00	2299989.00	47076.00
4-4	503806.00	2299822.00	47073.00
1-2	503810.00	2299634.00	47072.00
-2	503811.00	2299600.00	47072.00
8-1	503818.00	2299093.00	47079.00
1-1	503822.00	2298684.00	47072.00
1-3	503841.00	2297483.00	47067.00
3-2	503842.00	2297324.00	47071.00
-24	503849.00	2297006.00	47077.00
15	503884.00	2296740.00	47083.00
25	503891.00	2296695.00	47093.00
11-1	503893.00	2296585.00	47079.00
1	503899.00	2296442.00	47069.00
12-2	503900.00	2296254.00	47079.00
3-23	503884.00	2296114.00	47043.00
-5	503861.00	2295978.00	47062.00
5	503869.00	2295524.00	47070.00
160-20	503880.00	2301883.00	47226.00
-3	503892.00	2301392.00	47064.00
2	503892.00	2301107.00	47073.00
1	503901.00	2300896.00	47071.00
-2	503897.00	2300777.00	47065.00
22-2	503896.00	2300728.00	47093.00
2-2	503897.00	2300647.00	47070.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
1	503898.00	2300604.00	47072.00
1-1	503902.00	2300495.00	47070.00
2	503903.00	2300456.00	47073.00
-1	503914.00	2299598.00	47068.00
1-1	503919.00	2299346.00	47070.00
2-5	503921.00	2299257.00	47064.00
3-3	503920.00	2299122.00	47070.00
2-1	503924.00	2298933.00	47070.00
1-1	503927.00	2298846.00	47069.00
-3	503930.00	2298708.00	47065.00
2	503931.00	2298591.00	47069.00
1-1	503933.00	2298332.00	47067.00
1-6	503938.00	2298021.00	47061.00
1-1	503939.00	2297972.00	47067.00
3-3	503943.00	2297823.00	47067.00
1	503946.00	2297742.00	47068.00
1	503945.00	2297671.00	47069.00
1-1	503946.00	2297564.00	47067.00
1	503950.00	2297267.00	47068.00
-1	503951.00	2297139.00	47067.00
2-2	503953.00	2297104.00	47068.00
1-1	503961.00	2296710.00	47066.00
-1	503962.00	2296558.00	47065.00
2-1	503963.00	2296476.00	47067.00
-4	503975.00	2295687.00	47061.00
-1	503969.00	2295550.00	47063.00
650-100	504011.00	2301698.00	47704.00
425	504003.00	2301655.00	47480.00
-10	503978.00	2301481.00	47039.00
8	503960.00	2301346.00	47069.00
1	503971.00	2301199.00	47061.00
5	504026.00	2300983.00	47065.00
1-2	504100.00	2300280.00	47058.00
-2	504096.00	2300175.00	47054.00
2	504103.00	2299818.00	47064.00
-8	504114.00	2299042.00	47052.00
1	504118.00	2298759.00	47059.00
1-1	504129.00	2298088.00	47057.00
-2	504130.00	2297986.00	47054.00
2	504138.00	2297815.00	47057.00
-1	504135.00	2297742.00	47053.00
1	504127.00	2297620.00	47057.00
1	504140.00	2297351.00	47056.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
2	504143.00	2297287.00	47057.00
2	504141.00	2296818.00	47056.00
1	504150.00	2296595.00	47054.00
-5	503832.00	2296221.00	47046.00
4	503810.00	2296165.00	47055.00
2-5	503795.00	2296122.00	47047.00
1-1	503775.00	2295878.00	47052.00
-1	503776.00	2295731.00	47050.00
-1	503779.00	2295670.00	47049.00
2-2	503784.00	2295611.00	47051.00
2	503785.00	2295536.00	47053.00
2-4	503784.00	2295461.00	47049.00
3-4	504697.00	2301889.00	47084.00
-9	504633.00	2301912.00	47075.00
-1	504207.00	2302047.00	47084.00
1	504131.00	2302072.00	47086.00
5-10	503684.00	2301073.00	47080.00
1	503688.00	2300818.00	47083.00
3	503689.00	2300689.00	47085.00
2-2	503692.00	2300580.00	47082.00
-6	503694.00	2300475.00	47077.00
-5	503696.00	2300226.00	47076.00
-2	503697.00	2300166.00	47080.00
6	503705.00	2299622.00	47086.00
2-1	503715.00	2299300.00	47081.00
1	503712.00	2299251.00	47081.00
1	503717.00	2298896.00	47080.00
2-3	503723.00	2298482.00	47077.00
4	503732.00	2298033.00	47082.00
1-1	503734.00	2297930.00	47077.00
5-11	503733.00	2297835.00	47069.00
1-1	503729.00	2297714.00	47076.00
1-2	503727.00	2297639.00	47075.00
4	503731.00	2297556.00	47081.00
3	503737.00	2297492.00	47079.00
5	503749.00	2297364.00	47079.00
2	503750.00	2297341.00	47077.00
-5	503750.00	2297273.00	47070.00
13-3	503749.00	2297233.00	47088.00
23-3	503749.00	2297197.00	47089.00
5-8	503748.00	2296939.00	47073.00
2-3	503748.00	2296939.00	47073.00
-1	503751.00	2296748.00	47072.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
-9	503752.00	2296665.00	47070.00
-22	503750.00	2296522.00	47049.00
80	503751.00	2296509.00	47154.00
280-80	503983.00	2301746.00	47348.00
710	503984.00	2301700.00	47770.00
85	503984.00	2301647.00	47165.00
-22	503969.00	2301482.00	47051.00
-1	503963.00	2301465.00	47054.00
4-2	503948.00	2301390.00	47079.00
1-1	503947.00	2301348.00	47074.00
2	503950.00	2301315.00	47077.00
-1	503986.00	2301074.00	47073.00
4-3	503994.00	2300930.00	47074.00
2	503995.00	2300865.00	47075.00
8	503996.00	2300802.00	47080.00
7	503997.00	2300780.00	47080.00
5	504003.00	2300615.00	47077.00
2-1	504004.00	2300579.00	47074.00
-2	504004.00	2300379.00	47071.00
1	504004.00	2300275.00	47075.00
5L	504005.00	2300161.00	47079.00
-6	504008.00	2299819.00	47068.00
1-1	504013.00	2299577.00	47075.00
-5	504014.00	2299509.00	47069.00
12	504015.00	2299363.00	47087.00
3-2	504022.00	2299108.00	47076.00
-3	504035.00	2298309.00	47071.00
3-6	504035.00	2298284.00	47072.00
4-1	504041.00	2297763.00	47078.00
3	504042.00	2297722.00	47077.00
-15	504043.00	2297627.00	47059.00
-5	504044.00	2297575.00	47068.00
3	504045.00	2297533.00	47077.00
6-5	504046.00	2297478.00	47074.00
6	504049.00	2297259.00	47078.00
-58	504049.00	2297173.00	47015.00
2	504053.00	2296941.00	47073.00
4	504056.00	2296849.00	47075.00
1-1	504059.00	2296747.00	47070.00
1-1	504059.00	2296519.00	47070.00
12-13	504031.00	2295379.00	47067.00
1	503672.00	2301663.00	47083.00
40	503906.00	2301878.00	47172.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
180	503908.00	2301833.00	47256.00
2	503918.00	2301447.00	47068.00
2	503931.00	2301225.00	47072.00
-7	503932.00	2300907.00	47062.00
-20	503932.00	2300831.00	47049.00
-3	503939.00	2300763.00	47066.00
4-4	503942.00	2300735.00	47069.00
1-1	503946.00	2300660.00	47068.00
-2	503945.00	2300522.00	47066.00
2	503948.00	2300394.00	47072.00
1-1	503949.00	2300289.00	47068.00
-2	503952.00	2300194.00	47066.00
-1	503956.00	2299890.00	47066.00
1-1	503960.00	2299288.00	47066.00
1	503964.00	2298907.00	47067.00
1-1	503968.00	2298840.00	47065.00
1	503976.00	2298702.00	47066.00
-2	503975.00	2298441.00	47062.00
1-1	503978.00	2298146.00	47064.00
3-1	503986.00	2297853.00	47063.00
-4	503987.00	2297643.00	47060.00
-2	503990.00	2297489.00	47060.00
26	503990.00	2297376.00	47089.00
7	503990.00	2297345.00	47070.00
7-2	503992.00	2297182.00	47066.00
5	504003.00	2296750.00	47065.00
1-1	504003.00	2296677.00	47059.00
1-1	504016.00	2295417.00	47056.00
650-120	504011.00	2301697.00	47715.00
410	504003.00	2301656.00	47479.00
-11	503978.00	2301483.00	47039.00
1	503964.00	2301390.00	47061.00
7-1	503960.00	2301346.00	47069.00
1	503971.00	2301199.00	47061.00
5	504026.00	2300985.00	47065.00
3-4	504100.00	2300278.00	47059.00
-5	504096.00	2300172.00	47054.00
4	504103.00	2299815.00	47064.00
-1	504105.00	2299657.00	47057.00
3	504116.00	2299138.00	47062.00
-7	504114.00	2299042.00	47052.00
1	504113.00	2298998.00	47060.00
1	504118.00	2298763.00	47059.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
1-1	504129.00	2298088.00	47057.00
-1L	504130.00	2297990.00	47055.00
1	504138.00	2297813.00	47058.00
-1	504135.00	2297745.00	47053.00
1	504140.00	2297356.00	47056.00
1	504143.00	2297289.00	47057.00
2	504141.00	2296820.00	47056.00
1-1	504151.00	2296585.00	47054.00
5	503665.00	2295393.00	47051.00
1-1	503590.00	2295303.00	47047.00
-10	503518.00	2295220.00	47038.00
-2	502763.00	2294325.00	47042.00
-1	502348.00	2293822.00	47042.00
2	504062.00	2295244.00	47047.00
-6	503429.00	2294475.00	47037.00
3	503160.00	2294161.00	47047.00
-4	503086.00	2294065.00	47038.00
-1	503017.00	2293987.00	47041.00
1-1	502980.00	2293945.00	47043.00
5-5	502794.00	2293723.00	47041.00
-12	502771.00	2293697.00	47037.00
4-1	502644.00	2293545.00	47044.00
-1	502571.00	2293466.00	47041.00
4	503679.00	2295254.00	47048.00
4-4	503618.00	2295185.00	47044.00
2-1	503587.00	2295149.00	47045.00
2	503547.00	2295103.00	47046.00
-1	503153.00	2294637.00	47041.00
1-1	503556.00	2294786.00	47044.00
1-1	503519.00	2294742.00	47044.00
-1	503017.00	2294146.00	47040.00
5-3	502903.00	2294012.00	47044.00
3-7	502669.00	2293729.00	47036.00
4L	503663.00	2295394.00	47050.00
6-2	503651.00	2295150.00	47052.00
-3	503550.00	2295037.00	47046.00
4-4	503488.00	2294963.00	47048.00
2	503413.00	2294862.00	47048.00
1	503301.00	2294735.00	47048.00
1-2	503109.00	2294504.00	47045.00
1	503475.00	2294768.00	47049.00
1-1	503365.00	2294639.00	47046.00
1	503048.00	2294271.00	47047.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
-1	502875.00	2294056.00	47044.00
1-3	502715.00	2293866.00	47043.00
3	502648.00	2293789.00	47048.00
-3	503618.00	2295048.00	47048.00
-2	503194.00	2294522.00	47049.00
2-2	503056.00	2294381.00	47050.00
1-4	502911.00	2294184.00	47047.00
1	502839.00	2294089.00	47051.00
2-2	502598.00	2293441.00	47050.00
2-1	502576.00	2293381.00	47052.00
2-2	502526.00	2293265.00	47049.00
-1	502513.00	2293188.00	47048.00
3	502514.00	2293145.00	47053.00
12-18	502706.00	2292496.00	47045.00
10-3	502767.00	2292228.00	47054.00
8-6	502774.00	2292156.00	47049.00
2	502820.00	2291961.00	47048.00
-7	502908.00	2291671.00	47037.00
22-15	502922.00	2291626.00	47059.00
2	503296.00	2290363.00	47046.00
1	503350.00	2290212.00	47043.00
2-1	502283.00	2293114.00	47053.00
1	502469.00	2292469.00	47052.00
-1	502500.00	2292353.00	47048.00
1	502585.00	2292060.00	47050.00
1-1	502613.00	2291958.00	47049.00
-1	502695.00	2291665.00	47047.00
1	502749.00	2291468.00	47048.00
-2	502795.00	2291310.00	47044.00
2	502416.00	2293293.00	47055.00
2	502403.00	2293238.00	47055.00
7	502501.00	2292875.00	47059.00
1-1	502520.00	2292801.00	47051.00
1-2	502539.00	2292735.00	47050.00
2-4	502563.00	2292640.00	47050.00
2	502416.00	2293298.00	47052.00
1	502401.00	2293241.00	47052.00
5	502503.00	2292875.00	47054.00
1-1	502529.00	2292766.00	47048.00
3-3	502567.00	2292638.00	47051.00
-1	502705.00	2292147.00	47048.00
1	502786.00	2291866.00	47051.00
-2	502801.00	2291811.00	47047.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
3	502832.00	2291691.00	47052.00
-2	502856.00	2291607.00	47045.00
-2L	503243.00	2290241.00	47043.00
1-3	503294.00	2290059.00	47041.00
-2000?	503815.00	2288986.00	45020.00
-60?	503912.00	2288807.00	46235.00
-2000?	504021.00	2288622.00	45009.00
-3	504381.00	2288143.00	47023.00
-1	504472.00	2287988.00	47031.00
3-1	504502.00	2287940.00	47040.00
2	504529.00	2287898.00	47040.00
-1	504575.00	2287810.00	47033.00
2	502240.00	2293095.00	47053.00
1-1	502422.00	2292447.00	47051.00
3-3	502472.00	2292271.00	47051.00
-2	503112.00	2289989.00	47041.00
15-12	503195.00	2289736.00	47046.00
3	503261.00	2289640.00	47049.00
-2	503292.00	2289593.00	47038.00
-8	503484.00	2289257.00	46998.00
22-40	503519.00	2289203.00	46953.00
-2000?	503756.00	2288990.00	45002.00
-1800	503943.00	2288667.00	45179.00
100?	504020.00	2288508.00	46993.00
400-710	504092.00	2288247.00	46533.00
-40	504494.00	2287579.00	46996.00
-2	502417.00	2292968.00	47049.00
1	502444.00	2292877.00	47051.00
2-2	502474.00	2292787.00	47050.00
1-1	502494.00	2292718.00	47051.00
3	502512.00	2292658.00	47055.00
2	502544.00	2292557.00	47053.00
-2	502588.00	2292376.00	47048.00
3	502606.00	2292313.00	47053.00
1-1	502652.00	2292159.00	47050.00
2	502669.00	2292100.00	47051.00
8-11	502739.00	2291830.00	47045.00
-1	503244.00	2290056.00	47040.00
-10	503297.00	2289865.00	47024.00
15-30	503321.00	2289798.00	47024.00
-7	503423.00	2289618.00	47025.00
1-1	503478.00	2289537.00	47030.00
-2000	503795.00	2288989.00	45009.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
-1800?	503998.00	2288626.00	45109.00
40-10	504285.00	2288204.00	47038.00
-3	504367.00	2288070.00	47030.00
3-2	504443.00	2287939.00	47036.00
4	504523.00	2287809.00	47042.00
-13	502157.00	2293024.00	47041.00
-2	502980.00	2290102.00	47045.00
480-110	503076.00	2289761.00	47753.00
10-10	503136.00	2289644.00	47037.00
10-4	503176.00	2289574.00	47045.00
12-3	503214.00	2289511.00	47049.00
-2000?	503781.00	2288974.00	45019.00
-1912	503973.00	2288654.00	45112.00
6-6	504417.00	2287512.00	46902.00
2	502473.00	2292603.00	47057.00
6-12	502548.00	2292338.00	47048.00
-3	502578.00	2292232.00	47051.00
2	502628.00	2292042.00	47056.00
5	502684.00	2291838.00	47057.00
7-4	502738.00	2291666.00	47055.00
4-1	502838.00	2291309.00	47055.00
7	503041.00	2290582.00	47058.00
250-20	503293.00	2289744.00	47295.00
-2000?	503759.00	2288994.00	45017.00
210	503794.00	2288939.00	46084.00
-1900	503960.00	2288662.00	45096.00
-3	504183.00	2288276.00	47009.00
2000	504242.00	2288180.00	49079.00
8	504293.00	2288087.00	47061.00
-3	504372.00	2287955.00	47037.00
-5	504407.00	2287900.00	47041.00
3-3	504439.00	2287848.00	47046.00
4	504474.00	2287790.00	47049.00
-5	504568.00	2287637.00	47038.00
165	503248.00	2289737.00	47221.00
38	503347.00	2289582.00	47081.00
-2000?	503763.00	2288989.00	45004.00
-1900	503956.00	2288662.00	45093.00
-670	504200.00	2288166.00	46270.00
8	504111.00	2288324.00	47009.00
2-2	504244.00	2288095.00	47042.00
3-1	504321.00	2287966.00	47046.00
4-4	504347.00	2287919.00	47045.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
2-1	504410.00	2287823.00	47046.00
1-1	504438.00	2287780.00	47044.00
-3	504507.00	2287659.00	47040.00
-5	504534.00	2287611.00	47036.00
-500	503971.00	2288843.00	45005.00
5000	504098.00	2288719.00	49875.00
1000L	503810.00	2288756.00	47816.00
5000	503853.00	2288576.00	52672.00
2030	504444.00	2287541.00	46032.00
12	504461.00	2287268.00	47057.00
5-35	504599.00	2285983.00	47013.00
1-3	504698.00	2285089.00	47046.00
1-1	504887.00	2283454.00	47052.00
350-300	504921.00	2283176.00	47042.00
14-1	505331.00	2279615.00	47070.00
3-1	505372.00	2279256.00	47058.00
1	505415.00	2278883.00	47057.00
17-2	505002.00	2276934.00	47072.00
7	504982.00	2276872.00	47063.00
14-12	504855.00	2276434.00	47055.00
-23	504800.00	2287577.00	47073.00
2-14	504945.00	2286384.00	47045.00
-7	504959.00	2286121.00	47051.00
13-20	504958.00	2286074.00	47049.00
1-1	504963.00	2286003.00	47060.00
1-3	505030.00	2285421.00	47058.00
-1	505180.00	2284032.00	47059.00
8-3	505403.00	2281966.00	47066.00
7	505413.00	2281895.00	47069.00
2	505418.00	2281858.00	47062.00
5	505446.00	2281619.00	47066.00
-8	505661.00	2280183.00	47056.00
5-3	505830.00	2278252.00	47062.00
2	505806.00	2278197.00	47062.00
3-1	505774.00	2278124.00	47061.00
8-1	505720.00	2277974.00	47065.00
4	505714.00	2277949.00	47065.00
5-6	505587.00	2277463.00	47057.00
35	505520.00	2277227.00	47094.00
2-9	505477.00	2277105.00	47050.00
-5	505458.00	2277031.00	47052.00
-1	504666.00	2286098.00	47057.00
-29	504690.00	2285976.00	47029.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
1-1	504773.00	2285287.00	47058.00
1-1	504801.00	2285137.00	47057.00
3	504816.00	2285033.00	47060.00
2-2	504831.00	2284758.00	47058.00
-2	504843.00	2284688.00	47056.00
-4	504867.00	2284494.00	47053.00
1	504875.00	2284433.00	47058.00
-7	504894.00	2284160.00	47049.00
1-2	504947.00	2283808.00	47055.00
4-2	504963.00	2283651.00	47059.00
-1	505040.00	2282961.00	47054.00
2-1	505167.00	2281889.00	47054.00
1	505250.00	2281181.00	47054.00
-2	505399.00	2279904.00	47049.00
1-1	505445.00	2279496.00	47051.00
-8	505449.00	2279439.00	47043.00
4	505454.00	2279381.00	47055.00
1-4	505482.00	2279177.00	47047.00
2-3	505495.00	2279052.00	47049.00
1-1	505508.00	2278943.00	47051.00
-1	505536.00	2278697.00	47049.00
2-5	505539.00	2278614.00	47047.00
3-4	505561.00	2278445.00	47051.00
5	505464.00	2278080.00	47057.00
-3	505437.00	2278020.00	47049.00
-3	505214.00	2277287.00	47049.00
2-2	505170.00	2277115.00	47052.00
-1	505114.00	2276952.00	47051.00
4	504993.00	2276554.00	47056.00
45-4	504950.00	2276407.00	47097.00
2	504719.00	2287539.00	47058.00
1	504748.00	2287319.00	47059.00
2	504754.00	2287275.00	47059.00
2	504796.00	2286901.00	47062.00
5-3	504807.00	2286825.00	47061.00
2	504840.00	2286485.00	47061.00
-840	504970.00	2285399.00	46969.00
1	505106.00	2284213.00	47059.00
3-3	505130.00	2284021.00	47058.00
1	505362.00	2282069.00	47057.00
-4	505633.00	2279697.00	47050.00
2	505669.00	2279368.00	47056.00
3	505716.00	2278956.00	47057.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
4-4	505724.00	2278906.00	47055.00
1-2	505608.00	2277882.00	47053.00
1	505573.00	2277732.00	47055.00
-2	505489.00	2277477.00	47051.00
1	505278.00	2276777.00	47054.00
5-1	505155.00	2276401.00	47058.00
4-2	504728.00	2286558.00	47055.00
2-4	504738.00	2286492.00	47051.00
-9	504767.00	2286197.00	47043.00
2-2	504781.00	2286107.00	47052.00
5-1	504910.00	2284981.00	47056.00
1-1	504930.00	2284779.00	47051.00
1-1	504941.00	2284687.00	47050.00
1-1	504949.00	2284637.00	47051.00
5-2	505099.00	2283346.00	47052.00
6	505134.00	2283058.00	47056.00
3-1	505164.00	2282781.00	47052.00
1-1	505286.00	2281756.00	47049.00
1-1	505310.00	2281564.00	47048.00
1-1	505322.00	2281480.00	47048.00
4-5	505381.00	2280933.00	47045.00
38-45	505448.00	2280388.00	47038.00
3-4	505509.00	2279867.00	47042.00
1-1	505582.00	2279203.00	47048.00
12-10	505616.00	2278896.00	47050.00
6-4	505123.00	2276625.00	47049.00
2	505099.00	2276552.00	47048.00
-2	504616.00	2287119.00	47042.00
-2	504691.00	2286510.00	47042.00
5	504722.00	2286244.00	47049.00
12-12	504733.00	2286152.00	47045.00
10-2	504752.00	2285977.00	47055.00
-3	504782.00	2285738.00	47041.00
7-2	504870.00	2284973.00	47052.00
-2	504887.00	2284841.00	47042.00
-2	504923.00	2284514.00	47042.00
-4	504947.00	2284300.00	47040.00
3-1	504988.00	2283968.00	47047.00
-2	504995.00	2283906.00	47041.00
5	505005.00	2283826.00	47050.00
-4	504646.00	2287730.00	47039.00
4	504808.00	2286313.00	47050.00
35-20	505217.00	2282769.00	47047.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
3	505468.00	2280622.00	47044.00
-3	505650.00	2279046.00	47034.00
2	505599.00	2278020.00	47043.00
6	505578.00	2277952.00	47045.00
-3	505563.00	2277904.00	47035.00
-5	505525.00	2277784.00	47033.00
-9	505497.00	2277685.00	47031.00
2	505471.00	2277606.00	47040.00
1-1	505434.00	2277496.00	47038.00
1-1	505385.00	2277341.00	47037.00
1	505301.00	2277051.00	47038.00
-1	505270.00	2276956.00	47033.00
5-4	505132.00	2276444.00	47037.00
2	505123.00	2276501.00	47037.00
-3	505125.00	2276472.00	47031.00
7	505126.00	2276436.00	47041.00
1-1	505283.00	2275839.00	47034.00
-2	505367.00	2275591.00	47030.00
3	505541.00	2275417.00	47035.00
1-4	506154.00	2275051.00	47028.00
2	506318.00	2275025.00	47034.00
7	506489.00	2274999.00	47037.00
-2	507209.00	2274885.00	47027.00
1	507331.00	2274866.00	47032.00
4	507421.00	2274851.00	47035.00
3	507445.00	2274847.00	47034.00
20	507500.00	2274838.00	47050.00
1	507610.00	2274823.00	47031.00
28-13	508616.00	2274663.00	47040.00
2	509544.00	2274513.00	47020.00
3-3	509494.00	2274607.00	47022.00
-2	509556.00	2274542.00	47014.00
5-1	510302.00	2273207.00	47030.00
1-3	510478.00	2272893.00	47023.00
-3	510502.00	2272848.00	47021.00
1-1	510714.00	2271495.00	47024.00
-1	510720.00	2270899.00	47022.00
-2	510585.00	2269169.00	47020.00
620-510	510553.00	2268989.00	47129.00
110-410	510573.00	2268972.00	46755.00
2-2	510327.00	2268599.00	47022.00
1	509988.00	2268108.00	47024.00
-2	508371.00	2267470.00	47020.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
1	507826.00	2267327.00	47024.00
7	507634.00	2267278.00	47030.00
-2	507324.00	2267197.00	47022.00
3	507197.00	2267166.00	47027.00
5-3	507122.00	2267146.00	47027.00
2	507098.00	2267170.00	47025.00
1	507037.00	2267123.00	47024.00
6-6	506835.00	2266918.00	47023.00
-1	506793.00	2266868.00	47023.00
4-6	506549.00	2266432.00	47020.00
18-7	506660.00	2265641.00	47034.00
1-1	506807.00	2265398.00	47022.00
-10	507030.00	2265031.00	47012.00
1	507110.00	2264898.00	47024.00
1-1	508843.00	2263118.00	47017.00
-1	509026.00	2262950.00	47014.00
7-3	509246.00	2260236.00	47019.00
-2	509216.00	2259514.00	47009.00
2	509177.00	2258926.00	47012.00
6-2	509175.00	2258828.00	47015.00
2-4	509143.00	2258313.00	47007.00
6	509134.00	2258161.00	47016.00
2-4+1	508951.00	2261675.00	47016.00
1-1	508963.00	2261399.00	47019.00
2-2	508983.00	2260915.00	47018.00
-2	508986.00	2259858.00	47014.00
1-3	508931.00	2258842.00	47011.00
9-3	508921.00	2258657.00	47018.00
3	508918.00	2258603.00	47016.00
2	508916.00	2258564.00	47015.00
-2	508914.00	2258503.00	47010.00
4-1	508905.00	2258329.00	47016.00
-1	508865.00	2257754.00	47010.00
1-1	508861.00	2257526.00	47011.00
1-1	506224.00	2265907.00	47027.00
4-7	506414.00	2265583.00	47021.00
3L	506546.00	2265365.00	47031.00
3	508406.00	2263188.00	47026.00
-5	506367.00	2266705.00	47024.00
12-2	506213.00	2265899.00	47041.00
-9	506668.00	2267092.00	47018.00
5	506535.00	2266942.00	47032.00
3	506414.00	2266829.00	47031.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
5-5	506779.00	2267277.00	47026.00
2-8	509210.00	2267878.00	47019.00
-6	509150.00	2267874.00	47021.00
-3	509101.00	2267874.00	47023.00
2-5	509064.00	2267871.00	47024.00
2	508973.00	2267859.00	47029.00
5	508954.00	2267856.00	47032.00
6	508835.00	2267832.00	47032.00
2	508726.00	2267803.00	47029.00
2-3+2	508550.00	2267760.00	47024.00
12	508434.00	2267729.00	47038.00
-7	508137.00	2267655.00	47019.00
7	507944.00	2267607.00	47033.00
-5	507367.00	2267464.00	47023.00
-5	506876.00	2267337.00	47023.00
10-1	509299.00	2267757.00	47039.00
1	508945.00	2267666.00	47030.00
1-1	508603.00	2267578.00	47029.00
2	508012.00	2267426.00	47032.00
1-1	507797.00	2267370.00	47031.00
1-6	507312.00	2267244.00	47025.00
-4	507219.00	2267222.00	47027.00
-4	509569.00	2267919.00	47023.00
3	509490.00	2267901.00	47030.00
5	509342.00	2267863.00	47033.00
-4+6-20	509037.00	2267783.00	47015.00
6	508954.00	2267761.00	47035.00
1	508438.00	2267627.00	47030.00
5-7	508286.00	2267587.00	47027.00
-4	508077.00	2267536.00	47025.00
3	507722.00	2267448.00	47033.00
-1	507628.00	2267424.00	47028.00
2-1	507304.00	2267343.00	47031.00
3-3	507260.00	2267330.00	47030.00
1	508651.00	2267485.00	47031.00
2	508383.00	2267416.00	47031.00
-40	507422.00	2267110.00	46991.00
1-1	509403.00	2267831.00	47032.00
7-32	509304.00	2267802.00	47005.00
-2	509187.00	2267765.00	47029.00
-5	508949.00	2267709.00	47027.00
2	508079.00	2267488.00	47034.00
-3	509176.00	2267923.00	47030.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
102	509311.00	2267956.00	47143.00
-1	509703.00	2267719.00	47032.00
-1	508487.00	2267339.00	47033.00
1-1	507345.00	2267035.00	47037.00
13	507271.00	2267015.00	47048.00
-6	507389.00	2267154.00	47030.00
3-1	507138.00	2267097.00	47038.00
1-1	509976.00	2268515.00	47036.00
-1	509648.00	2268042.00	47035.00
19	510645.00	2269021.00	47000.00
45	510633.00	2268893.00	47090.00
1-2	510031.00	2267915.00	47034.00
20-2	510004.00	2267889.00	47078.00
1-2	510272.00	2268773.00	47032.00
10-9	509869.00	2268180.00	47039.00
-2	509832.00	2268123.00	47035.00
-2	510469.00	2271928.00	47038.00
3	510475.00	2271249.00	47041.00
5	510473.00	2271135.00	47044.00
-5	510492.00	2270881.00	47034.00
3-3	510493.00	2270853.00	47040.00
1	510489.00	2270278.00	47038.00
2	510365.00	2269304.00	47040.00
5	510764.00	2272605.00	47034.00
-10	510785.00	2272563.00	47048.00
10L	510810.00	2272283.00	47049.00
-4L	510815.00	2272199.00	47035.00
4L	510820.00	2272111.00	47044.00
10	510811.00	2272284.00	47050.00
4	510819.00	2272114.00	47044.00
55	510825.00	2271878.00	47102.00
-45	510829.00	2271772.00	46988.00
-10	510835.00	2271718.00	47026.00
1-1	510848.00	2270850.00	47040.00
80-22	510838.00	2270661.00	47095.00
70	510753.00	2269404.00	47114.00
150-220	510675.00	2269038.00	46954.00
-225	510666.00	2268992.00	46785.00
1-1	510566.00	2272135.00	47044.00
1-1	510569.00	2271531.00	47043.00
1-2	510570.00	2271253.00	47041.00
1	510590.00	2270073.00	47043.00
1	510573.00	2269918.00	47042.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
1-1	510459.00	2269289.00	47040.00
2-1	510430.00	2269092.00	47042.00
1-30	510402.00	2268954.00	47012.00
-38	509568.00	2274023.00	47005.00
-1	509698.00	2273801.00	47043.00
8	509745.00	2273715.00	47053.00
2	510186.00	2272922.00	47047.00
1	510344.00	2272642.00	47046.00
-15	509708.00	2274481.00	47004.00
8-40	509858.00	2274291.00	46984.00
-10	510533.00	2273095.00	47032.00
20-20	510596.00	2272961.00	47044.00
-30	510619.00	2272904.00	47011.00
80-90	510664.00	2272802.00	47026.00
-80	510712.00	2272712.00	46947.00
20-20	510766.00	2272610.00	47039.00
-25	510777.00	2272590.00	47012.00
7-1	509568.00	2274233.00	47053.00
-1	509910.00	2273618.00	47047.00
-2	510072.00	2273329.00	47046.00
-1	510152.00	2273185.00	47046.00
-5	506010.00	2274832.00	47049.00
13	506170.00	2274808.00	47067.00
-1	506394.00	2274767.00	47052.00
1	506444.00	2274759.00	47054.00
-1	506715.00	2274717.00	47051.00
-6	507153.00	2274650.00	47047.00
5-1	507245.00	2274634.00	47057.00
-1	507296.00	2274627.00	47051.00
-1	507351.00	2274618.00	47051.00
5	507414.00	2274610.00	47057.00
3	507433.00	2274608.00	47056.00
1-3	507583.00	2274583.00	47051.00
-1	507961.00	2274522.00	47050.00
11	508268.00	2274476.00	47062.00
2	508291.00	2274472.00	47053.00
20-16	508442.00	2274449.00	47052.00
-5	508969.00	2274367.00	47040.00
8-5	506014.00	2275174.00	47052.00
1-1	506201.00	2275185.00	47053.00
1	506263.00	2275178.00	47054.00
7-1	506855.00	2275103.00	47059.00
3-2	507302.00	2275026.00	47053.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
-2	507716.00	2274953.00	47050.00
-1	509000.00	2274753.00	47049.00
-1	509520.00	2274648.00	47041.00
2	506915.00	2274791.00	47056.00
1	506984.00	2274773.00	47055.00
1	507214.00	2274740.00	47054.00
5	507365.00	2274722.00	47056.00
8	507466.00	2274706.00	47057.00
1-1	507730.00	2274660.00	47053.00
-1	508160.00	2274593.00	47052.00
-1	508465.00	2274543.00	47052.00
7	506148.00	2275116.00	47060.00
-12	506208.00	2275112.00	47040.00
9-2	506245.00	2275109.00	47063.00
-24	506307.00	2275100.00	47029.00
45-80	506349.00	2275092.00	47020.00
5	506463.00	2275067.00	47059.00
15	506485.00	2275062.00	47069.00
1-1	506754.00	2275009.00	47052.00
-5	507609.00	2274871.00	47047.00
-3	508616.00	2274711.00	47048.00
2	505386.00	2275240.00	47058.00
-3	505791.00	2274945.00	47051.00
1-1	505831.00	2274916.00	47055.00
3-1	505892.00	2274875.00	47057.00
1	506011.00	2274808.00	47056.00
4-1	505622.00	2275514.00	47060.00
3	505714.00	2275440.00	47061.00
6-5	505880.00	2275326.00	47056.00
5	505911.00	2275307.00	47060.00
-14	506008.00	2275246.00	47037.00
70-80	505280.00	2275446.00	47030.00
-5	504867.00	2276349.00	47058.00
9-7	504911.00	2276196.00	47062.00
500-170	505071.00	2275708.00	47438.00
8-20	505233.00	2275418.00	47046.00
8-29	505270.00	2276417.00	47076.00
-7	505061.00	2276080.00	47053.00
4-1	505080.00	2275984.00	47065.00
6-19	505152.00	2275787.00	47049.00
7-7	505249.00	2275496.00	47053.00
-40	505281.00	2275454.00	46975.00
6	505156.00	2276405.00	47068.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
-3	505323.00	2275912.00	47058.00
2	505351.00	2276707.00	47064.00
2-2	505319.00	2276547.00	47062.00
30-10	505284.00	2276425.00	47081.00
3	505256.00	2276296.00	47065.00
23-47	505409.00	2280391.00	47041.00
2	505482.00	2279673.00	47067.00
7-9+8	505576.00	2278872.00	47056.00
1-4	505599.00	2278656.00	47060.00
2-2	505620.00	2278451.00	47065.00
4	505607.00	2278385.00	47068.00
-1	505568.00	2278243.00	47062.00
-3	505069.00	2276612.00	47060.00
-3	505053.00	2276560.00	47060.00
4	505015.00	2276417.00	47067.00
3	504998.00	2276304.00	47065.00
4	509233.00	2257011.00	47040.00
-8	509251.00	2257431.00	47028.00
1-1	509267.00	2257610.00	47037.00
1	509269.00	2257808.00	47038.00
3	509280.00	2258049.00	47041.00
3-4	509295.00	2258181.00	47037.00
4	509300.00	2258307.00	47043.00
-1	509305.00	2258378.00	47037.00
3	509311.00	2258467.00	47042.00
3-2	509340.00	2259027.00	47041.00
-5	509357.00	2259281.00	47035.00
4L	509368.00	2259548.00	47044.00
-2	509392.00	2259890.00	47040.00
1-2	509352.00	2261604.00	47043.00
2	509307.00	2262497.00	47047.00
1	509310.00	2262571.00	47047.00
4	509022.00	2263167.00	47049.00
5	508230.00	2263890.00	47051.00
-2	507899.00	2264173.00	47044.00
2	507722.00	2264334.00	47051.00
2-1	507524.00	2264520.00	47049.00
1-1	507353.00	2264778.00	47048.00
-7	507277.00	2264875.00	47042.00
1	507178.00	2264992.00	47049.00
8-5	507148.00	2265035.00	47051.00
7	507047.00	2265229.00	47054.00
10-1	506999.00	2265348.00	47057.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
3-10	506696.00	2266382.00	47041.00
-4	506725.00	2266511.00	47043.00
1	506834.00	2266678.00	47051.00
15-9	507070.00	2266957.00	47053.00
6-6	506813.00	2266817.00	47045.00
6-2	506833.00	2266839.00	47049.00
1-1	506943.00	2266945.00	47046.00
3-1	507263.00	2264862.00	47046.00
5	507189.00	2265000.00	47051.00
-3	507154.00	2265042.00	47040.00
1	507114.00	2265096.00	47045.00
7	507054.00	2265228.00	47051.00
1	507001.00	2265344.00	47046.00
-2	506947.00	2265457.00	47042.00
-2	507042.00	2264728.00	47043.00
3-2	506961.00	2264865.00	47046.00
2	506765.00	2265195.00	47046.00
6-1	506627.00	2265416.00	47048.00
2-6	506591.00	2265480.00	47041.00
-11	509058.00	2262991.00	47028.00
4-4	508873.00	2263153.00	47039.00
-2	508377.00	2263598.00	47038.00
1	508197.00	2263766.00	47043.00
6	508081.00	2263870.00	47046.00
1	507885.00	2264045.00	47043.00
10-9	507092.00	2265023.00	47045.00
35	507077.00	2265052.00	47078.00
3	507035.00	2265118.00	47049.00
1-1	506848.00	2265427.00	47043.00
-5	509047.00	2262791.00	47034.00
1	508671.00	2263141.00	47042.00
-2	508623.00	2263189.00	47039.00
-3	508589.00	2263220.00	47036.00
2	508548.00	2263255.00	47042.00
7-6	508462.00	2263335.00	47041.00
1	507141.00	2264661.00	47043.00
1-1	507012.00	2264875.00	47042.00
-1	506826.00	2265184.00	47041.00
-1	506798.00	2265234.00	47041.00
7	506691.00	2265414.00	47050.00
-3	506627.00	2265518.00	47038.00
35	506376.00	2265932.00	47076.00
4	506410.00	2265982.00	47045.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
1-2	506539.00	2265748.00	47040.00
1-1	506556.00	2265721.00	47041.00
-5	506637.00	2265581.00	47036.00
6	506719.00	2265450.00	47048.00
8	506868.00	2265203.00	47049.00
4-1	507025.00	2264936.00	47043.00
2-2	507059.00	2264882.00	47040.00
2	508151.00	2263669.00	47039.00
-1	508184.00	2263640.00	47036.00
-1	508593.00	2263269.00	47035.00
1-1	508847.00	2263042.00	47037.00
35-5	509137.00	2257126.00	47055.00
-2	509144.00	2257275.00	47018.00
1	509154.00	2257363.00	47025.00
14	509157.00	2257431.00	47035.00
30-3	509161.00	2257625.00	47053.00
30-12	509162.00	2257661.00	47041.00
10	509199.00	2258321.00	47035.00
45-21	509200.00	2258341.00	47042.00
32	509202.00	2258389.00	47057.00
7	509226.00	2258867.00	47041.00
-1	509212.00	2258600.00	47024.00
1-1	509264.00	2259592.00	47028.00
1-1	509273.00	2259725.00	47029.00
1-2	509279.00	2259870.00	47026.00
-2	509283.00	2259949.00	47027.00
4	509278.00	2260838.00	47035.00
13-2	509199.00	2262849.00	47041.00
13-2	508973.00	2257003.00	47034.00
-5	509015.00	2257619.00	47017.00
-4	509043.00	2258137.00	47020.00
1	509066.00	2258525.00	47026.00
-9	509081.00	2258868.00	47015.00
-12	509086.00	2258948.00	47012.00
9-1	509101.00	2259227.00	47034.00
2	509112.00	2259433.00	47028.00
1-3	509123.00	2259659.00	47024.00
8-1	509135.00	2259846.00	47034.00
1	509155.00	2260370.00	47028.00
1-1	509153.00	2260394.00	47028.00
-38	509120.00	2261215.00	46991.00
1-1	509118.00	2261277.00	47028.00
1	509093.00	2261851.00	47029.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
1-1	509057.00	2262722.00	47030.00
2-6	509053.00	2262779.00	47027.00
1-4	509100.00	2262704.00	47027.00
1-2	509116.00	2262336.00	47028.00
1	509133.00	2261824.00	47028.00
1	509159.00	2261281.00	47028.00
20-2	509161.00	2261210.00	47043.00
12-2	509200.00	2260312.00	47034.00
-7	509198.00	2260207.00	47017.00
29-3	509185.00	2260018.00	47051.00
-4	509156.00	2259417.00	47019.00
6	509153.00	2259366.00	47029.00
8	509149.00	2259312.00	47031.00
2-3	509132.00	2259020.00	47020.00
-5	509128.00	2258918.00	47017.00
-9	509124.00	2258849.00	47013.00
-3	509121.00	2258798.00	47018.00
3-7	509108.00	2258520.00	47018.00
9-1	509104.00	2258445.00	47027.00
-1	509076.00	2257933.00	47018.00
-6	509074.00	2257885.00	47013.00
-1	509069.00	2257819.00	47018.00
-1	509058.00	2257602.00	47017.00
-7	509054.00	2257506.00	47011.00
1-1	509040.00	2257282.00	47017.00
1	508942.00	2257171.00	47017.00
-2	508945.00	2257248.00	47014.00
2	508950.00	2257334.00	47019.00
2-3	508965.00	2257614.00	47017.00
1	508980.00	2257886.00	47018.00
1-4	508987.00	2258047.00	47014.00
2	509001.00	2258275.00	47021.00
1	509019.00	2258544.00	47020.00
-2	509030.00	2258916.00	47018.00
19-7	509047.00	2259134.00	47031.00
5	509055.00	2259311.00	47026.00
13-1	509056.00	2259349.00	47035.00
2-2	509058.00	2259506.00	47022.00
10:11:22	509077.00	2259688.00	47024.00
18-8	509080.00	2259717.00	47048.00
20-18	509082.00	2259794.00	47028.00
-12	509090.00	2259964.00	47009.00
40-15	509102.00	2260169.00	47043.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
2-3	509107.00	2260419.00	47023.00
3-2	509096.00	2260515.00	47029.00
10-20	509092.00	2260635.00	47012.00
2	509086.00	2260827.00	47028.00
1	509082.00	2261021.00	47025.00
1-1	509076.00	2261094.00	47025.00
-4	509065.00	2261283.00	47021.00
1	509057.00	2261514.00	47026.00
7-1	509048.00	2261680.00	47031.00
-1	509036.00	2262034.00	47023.00
1	508011.20	2263675.30	47028.80
-2	506517.60	2266059.90	47024.40
-1	506533.30	2266131.60	47025.30
-1	506473.00	2266494.00	47024.70
8-1	506494.00	2266587.40	47035.60
5	506510.50	2266485.00	47031.40
-3	506500.90	2266444.00	47022.30
1-1	506460.30	2266259.10	47027.00
-8	506438.80	2266170.20	47017.20
12-25	506389.60	2265929.50	47014.00
8-2	509864.50	2268088.50	47029.90
3-6	510050.30	2268361.60	47021.10
-4	510261.90	2268671.00	47020.90
-2	510391.30	2268856.70	47021.60
58	510455.70	2268947.60	47081.90
-4	509937.70	2267945.60	47020.30
1150	510594.00	2268908.20	48153.30
-650	510666.80	2269046.90	46317.60
-40	510527.30	2268970.30	46982.50
1	510375.90	2268746.10	47025.50
2-2	510304.90	2268636.00	47025.60
1-2	510271.90	2268588.20	47024.10
6-2	510098.70	2268344.00	47029.20
-1	510043.80	2268266.50	47023.40
35	510453.10	2268950.40	47061.50
-1	510541.90	2269497.30	47023.80
130	510444.80	2268955.20	47156.40
-16	510477.60	2269111.20	47010.20
1-2	510568.80	2269612.60	47024.80
-3	510583.40	2269692.30	47022.50
-1	510635.40	2270004.80	47026.00
5	510635.50	2270239.70	47031.80
-1	510633.60	2270416.20	47026.10

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
1	510633.80	2270689.70	47029.30
-1	510631.60	2270780.90	47027.00
8-1	510627.30	2270911.40	47035.90
4-1	510616.10	2272122.30	47032.50
-1	510612.10	2272357.10	47028.30
690-100	510596.80	2268917.70	47628.90
42-23	510626.80	2269112.40	47048.10
5	510769.30	2270920.30	47031.60
2-3	510762.90	2271841.70	47026.90
2-2	510669.90	2271561.40	47026.90
-2	510675.30	2271221.70	47024.60
-1	510675.60	2271118.50	47024.90
4-2	510682.80	2269979.70	47027.00
1-1	510652.40	2269829.70	47026.10
5-5	510615.20	2269594.10	47024.80
21-13	510506.00	2268984.70	47032.10
-13	510163.70	2273269.60	47016.60
1-1	509885.20	2273771.30	47028.60
2-3	509614.00	2274248.90	47026.80
-8	510627.20	2272730.90	47018.70
-1	509876.90	2274070.90	47025.20
10-19	509711.90	2274371.80	47004.70
-14L	509645.50	2274487.80	47012.10
26-24	509536.20	2274477.70	47026.30
1	509548.60	2274458.30	47026.30
1-2	509585.60	2274408.80	47024.50
1	509680.10	2274232.00	47027.70
-1	509686.70	2274219.60	47025.90
1	509717.90	2274166.20	47029.10
7-1	509722.00	2274159.40	47034.80
1	509728.80	2274147.60	47028.70
2	510268.00	2273187.60	47030.90
-2	510398.10	2272955.50	47026.80
-8	510497.80	2272772.30	47022.00
-1	510634.10	2272517.20	47028.20
14	505339.00	2275394.30	47050.20
-58	505305.40	2275457.80	46981.70
1-1	505122.50	2276050.60	47041.30
1	505100.80	2276115.90	47044.00
1	505046.80	2276271.40	47044.00
10-1	505034.00	2276307.80	47051.80
-1	505058.40	2276403.60	47038.80
2	505135.60	2276124.50	47042.50

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
-34	505306.70	2275581.60	47005.40
-45	505888.00	2275235.60	46992.30
-1	505751.60	2275334.50	47037.40
13-3	505400.80	2275608.40	47050.50
4-2	506827.90	2267123.50	47040.30
-2	506345.40	2266200.40	47036.50
5-3	506368.50	2266310.90	47042.60
22-8	506458.50	2266645.00	47058.00
1	506588.10	2266846.50	47041.90
-35	506715.90	2267000.80	47004.60
9	506938.20	2267107.10	47049.30
3	506564.40	2266744.40	47043.00
3	506741.10	2266951.50	47043.40
2	506841.70	2267065.20	47042.60
2-1	506860.80	2267090.30	47041.60
8-2	506939.00	2267110.80	47048.20
-1	509180.80	2274481.60	47044.00
1	508989.50	2274510.80	47048.90
10-13	508891.00	2274527.70	47045.70
7	508680.50	2274559.80	47055.30
2	508653.20	2274564.10	47050.30
11-4	508599.10	2274574.00	47055.20
11-110	508226.40	2274629.00	46948.50
7-2	507850.00	2274693.00	47055.90
3-2	507308.70	2274777.40	47051.30
6-2	507248.70	2274784.60	47053.90
5	506725.90	2274872.20	47055.70
1	506507.90	2274900.70	47052.60
-2	506084.50	2274972.10	47048.40
-3	506040.70	2274977.40	47047.90
6-6	505795.00	2275069.40	47050.50
2-14+3	505897.60	2275049.60	47035.00
-1	505976.60	2275036.30	47048.80
3	506092.40	2275006.00	47053.50
55-10	506799.20	2274904.00	47098.20
55	507195.50	2274837.90	47104.60
13-3	507475.20	2274789.50	47058.80
1-4	507694.90	2274750.70	47045.40
-1	508292.90	2274662.50	47047.70
1-1	508542.60	2274624.70	47048.50
1-1	508605.60	2274616.80	47048.70
-4	508976.80	2274552.30	47044.00
20-110	509533.90	2274469.10	46965.90

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
12-22	505968.50	2274996.80	47046.90
10-13	505914.50	2275037.20	47049.90
2	505880.80	2275060.30	47058.50
-21	505321.40	2275469.60	47034.80
27	505284.20	2275552.80	47082.00
1-1	505402.90	2275437.50	47054.20
6-5	505632.40	2275294.30	47056.90
-2	505857.70	2275130.50	47051.90
3-3	505901.10	2275099.80	47055.40
1-1	507966.40	2302461.20	47059.00
2-1	508193.20	2302794.10	47081.60
50-43	508315.30	2302979.40	47094.20
22-2	508480.70	2303217.80	47112.10
-23	508502.10	2303249.00	47062.40
-9	508528.40	2303285.20	47081.40
1-2	508555.20	2303320.80	47088.70
25	508687.60	2303513.20	47117.70
20-3	508723.50	2303567.10	47106.40
10	508814.30	2303699.10	47099.90
-40L	509130.90	2304163.90	47049.50
15	508158.90	2302287.20	47034.20
5-5	508622.60	2302960.30	47073.60
600-1100	509389.00	2304093.50	46568.50
2	507995.40	2302330.30	47045.40
-2	508215.90	2302646.50	47072.40
-4	508661.50	2303298.60	47083.10
8	508823.20	2303538.90	47098.00
-1	508896.50	2303643.90	47089.50
2-2	508921.90	2303680.50	47089.90
1-110	509264.10	2304182.10	47009.60
13	508086.30	2302707.90	47088.30
7	508218.20	2302906.60	47091.40
155-10	508267.70	2302977.50	47231.10
-65	508290.20	2303009.10	47016.90
3	508348.30	2303093.50	47100.60
-2	508433.30	2303219.90	47077.50
1-1	508553.20	2303386.00	47090.20
12-7	508573.20	2303414.50	47094.20
2	508588.10	2303436.60	47092.20
2	508616.10	2303480.10	47092.50
15	508734.00	2303662.10	47105.80
-5	508781.70	2303726.30	47084.80
15	508881.20	2303874.00	47104.60

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
10-21	508913.90	2303927.10	47074.90
-6	509040.80	2304114.30	47061.80
15-10	509384.70	2304436.30	47107.30
-60L	509165.80	2304126.60	47026.50
-2	508680.80	2303422.90	47085.80
11-28	508246.50	2302775.20	47062.70
-2	507959.50	2302356.80	47039.00
15-15	507054.40	2301795.80	47015.30
3-3	507074.70	2301865.70	47024.30
25	507258.50	2301970.30	47045.90
2-2	507612.10	2302160.70	47022.70
-2	507090.70	2301770.80	46998.30
4	507692.90	2302375.80	47056.30
8	507275.80	2302147.30	47054.60
22	507199.70	2302105.60	47068.20
-1	507125.40	2302066.30	47045.60
-1	507038.30	2302018.20	47045.40
5-3	506908.60	2301948.10	47052.10
-1	506855.80	2301921.00	47048.70
2	506690.00	2301826.00	47058.50
-8	506617.90	2301782.50	47051.60
-30	507207.30	2302007.10	47001.10
5-5	507272.20	2302042.20	47034.20
5-2	507367.90	2302095.20	47044.80
2	509150.00	2304452.80	47093.70
-6	508875.40	2304044.50	47078.40
4-35	508817.50	2303960.70	47048.00
7-1	508734.80	2303842.30	47098.90
6-6	508635.20	2303687.50	47094.80
7-7	508603.10	2303636.70	47096.00
5	508258.90	2303133.60	47095.00
7-3	508162.40	2302987.50	47081.00
3-2	508068.40	2302864.30	47082.80
4-1	508011.90	2302794.10	47081.90
3-3	507989.20	2302757.80	47078.40
-3	507907.40	2302619.00	47066.10
5-5	508149.30	2302291.30	47017.70
13-13	508609.50	2302953.80	47071.50
60-20	503835.00	2301909.00	47121.00
8-3	503843.00	2300966.00	47066.00
3-1	503854.00	2300318.00	47063.00
2-2	503868.00	2299531.00	47061.00
5	503870.00	2299392.00	47067.00

UTILITY INVESTIGATION OF ICWW CUT-8 THROUGH CUT- 27D
MAGNETIC ANOMALY LOCATIONS APPENDIX C

MAGNETIC ANOMALY POINT NUMBER	EASTING FEET NAD 83/90 SPC0901 FLORIDA EAST	NORTHING FEET NAD 83/90 SPC0901 FLORIDA EAST	MAGNETIC ANOMALY INTENSITY
4	503866.00	2299298.00	47064.00
3	503872.00	2299044.00	47063.00
2	503887.00	2298385.00	47062.00
-1	503887.00	2298357.00	47058.00
2	503888.00	2298328.00	47062.00
-1	503889.00	2297996.00	47058.00
-1	503898.00	2297467.00	47057.00
-1	503901.00	2297289.00	47058.00
-6	503901.00	2297155.00	47053.00
3	503902.00	2297113.00	47062.00
5	503903.00	2297087.00	47064.00
11-32	503911.00	2296702.00	47036.00
-2	503911.00	2296638.00	47054.00
-2	503912.00	2296544.00	47055.00
2-2	503912.00	2296448.00	47058.00
2	503915.00	2296255.00	47060.00
1	503919.00	2296037.00	47059.00
1	503922.00	2295871.00	47059.00
2	503840.00	2301444.00	47062.00
1	503849.00	2300706.00	47061.00
1-1	503852.00	2300459.00	47061.00
2-1	505067.00	2301922.00	47086.00
-2	505256.00	2301862.00	47083.00
-3	505179.00	2301885.00	47082.00
3	504768.00	2302022.00	47088.00
-1	506202.00	2301811.00	47068.00
1-1	506070.00	2301857.00	47075.00
-10	505819.00	2301927.00	47069.00
6-3	505301.00	2302100.00	47090.00
20-9	505111.00	2301963.00	47101.00
2	504470.00	2302177.00	47092.00
-1	506235.00	2301542.00	47062.00
-1	505253.00	2301863.00	47083.00
-2	505179.00	2301884.00	47082.00
2-2	505070.00	2301921.00	47085.00
3	504767.00	2302022.00	47088.00