

ADDITIONAL AGENDA ITEM

FLORIDA INLAND NAVIGATION DISTRICT Board of Commissioners Meeting

9:00 a.m., Friday, August 21, 2015

**Disney's Vero Beach Resort
9250 Island Grove Terrace
Vero Beach, (Indian River County) FL 32963-4145**

**Additional Agenda Item (24A). Additional Utility Location Services for the Broward
Intracoastal Waterway Deepening Project, Broward
County, FL.**

In order to prepare for the forthcoming Broward Intracoastal Waterway (IWW) Deepening Project, Taylor Engineering is recommending the District contract with Logan Diving & Salvage to use a Jet Probe to verify the depth of the City of Fort Lauderdale's waterline as it passes under the IWW near the Las Olas Bridge. This 16" CIP waterline was installed in 1956 and numerous discussions and extensive coordination has been conducted with the City on its depth and location, with limited success.

Previous attempts to electronically locate the waterline were only partially successful. The contractor will return to the located pipe and utilize jet probes to determine its actual depth below the IWW. The depth of this utility is critical to a portion of the Broward IWW Deepening Project. Therefore, it is necessary to make every effort and attempt to locate this line to the greatest degree possible.

(Please see back up pages A2-A7)

RECOMMEND: Approval of a proposal from Logan Diving & Salvage in the amount of \$17,100.00 for additional utility location of the the Las Olas Water Main, Broward County IWW Deepening Project, Broward County, FL.

If a person decides to appeal any decision made by the board, agency, or commission with respect to any matter considered at such meeting or hearing, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.



LOGAN DIVING & SALVAGE

2815 SAINT JOHNS BLUFF
 JACKSONVILLE, FLORIDA 32246
 TEL: (904) 731-0000 FAX: (904) 731-5493
 MARINE SPECIALTY CONTRACTOR
 FL SCC131151014
 AUGUST 12, 2015 / REVISED AUGUST 14, 2015

JOHN F. ADAMS, P.E.
 SENIOR ADVISOR, WATERFRONT GROUP
 10151 DEERWOOD PARK BLVD.
 BLDG. 300, SUITE 300
 JACKSONVILLE, FL 32256 CELL (904) 434-2571

RE: LAS OLAS WM CROSSING JET PROBING OPTION/REVISED AUGUST 14, 2015

MR. ADAMS, P.E.,

THIS WILL COMPLY WITH YOUR REQUEST FOR REVISED PROPOSAL CONCERNING THE REFERENCED.

LOGAN DIVING & SALVAGE PROPOSES TO PROVIDE FULLTIME SUPERVISION, CERTIFIED COMMERCIAL DIVERS, OSHA AND ADCI DIVING STANDARDS COMPLIANCE, SURFACE SUPPLIED DIVING EQUIPMENT, HARD WIRE COMMUNICATIONS, RD 7000 U/W PIPE AND CABLE TRACKER, JETTING EQUIPMENT, DIVE BOAT, TRUCK, TRAILER, EXPENDABLES AND INSURANCE TO JET PROBE FOR THE WM AT THE LAS OLAS WM CROSSING AS FOLLOWS:

PHYSICAL DIVER JET PROBING

- 1) REVIEW PLANS AND PAST RECENT SURVEYS
- 2) PROVIDE MOBILIZATION OF MEN AND EQUIPMENT
- 3) PROVIDE JETTING EQUIPMENT AND 10' WATER JET PROBES
- 4) ELECTRONICALLY LOCATE HORIZONTAL ALIGNMENT OF SUBAQUEOUS CROSSING
- 5) JET PROBE U/W SUB GROUND LINE AT PREVIOUSLY ELECTRONICALLY LOCATED HORIZONTAL ALIGNMENT STATIONS (PIER AND BENT STATIONS) TO MINUS 6'-8' BELOW EXISTING U/W GROUND LINE
- 6) JET PROBE 10' UPSTREAM AND 10' DOWNSTREAM ON 1' CENTERS AT EACH BENT/PIER STATION
- 7) DOCUMENT FINDINGS AT EACH STATION
- 8) DETERMINE THAT THE WM IS OR IS NOT PRESENT WITHIN -6'-8' OF THE EXISTING U/W GROUND LINE AT EACH BENT/PIER STATION 10' UPSTREAM AND 10' DOWN STREAM

LDS MOBILIZATION.....	\$ 2640.00/EACH
DAILY RATE FOR LDS MEN AND EQUIPMENT.....	\$ 3640.00/DAY
LDS DEMOBILIZATION.....	\$ 2640.00 EACH
LODGING.....	\$ 300.00/DAY

ANTICIPATE 3 DAYS ON SITE TO PROBE FOR AND DETERMINE IF THE WM IS OR IS NOT WITHIN -6' TO -8' FROM THE EXISTING UNDERWATER GROUND LINE.

TOTAL COST FOR 3 DAYS ON SITE.....\$17,100.00

*RATES PROVIDES FOR 8 HOURS PER DAY BOAT RAMP TO BOAT RAMP, MONDAY THRU FRIDAY BETWEEN THE HOURS OF 0700 TO 1600. OVERTIME OVER 8 HOURS PER DAY AND ON WEEKENDS AND HOLIDAYS WILL BE PROVIDED FOR 1.5 TIMES THE STANDARD RATE. PAYMENT TERMS: NET 30 DAYS

PROPOSAL SUBJECT TO OUR STANDARD TERMS AND CONDITIONS POSTED UNDER SERVICES @ WWW.LOGANDIVING.COM. INSURANCE CERTIFICATES WILL BE SENT DIRECT FROM OUR AGENTS INCLUDING GL AND ALL APPLICABLE COVERAGE'S AS THEY APPLY TO COMMERCIAL DIVING OPERATIONS ON THE NAVIGABLE WATERS OF THE TERRITORIAL AND CONTINENTAL UNITED STATES.

BEST REGARDS,

/SCOTT C. ANDERSON/

S. C. ANDERSON
 PRESIDENT
 LOGAN DIVING & SALVAGE

WWW.LOGANDIVING.COM



LOGAN DIVING & SALVAGE

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LAS OLAS BRIDGE 16" CIP WATER MAIN CROSSING FOR FLORIDA INLAND NAVIGATION DISTRICT AUGUST 4, 2015

PROFESSIONAL COMMERCIAL DIVING SERVICES WERE REQUESTED TO ATTEMPT TO ELECTRONICALLY DETERMINE DEPTH COVER OVER 16" CIP WATER MAIN NORTH OF THE LAS OLAS BRIDGE IN THE ICW / FT. LAUDERDALE, FLORIDA.

DIVERS UTILIZING SURFACE SUPPLIED DIVE GEAR, HARD WIRE COMMUNICATIONS, 24' DIVE BOAT, RD 7000 U/W PIPE AND CABLE TRACKER, DD U/W ANTENNA (300'), WITH FACTORY RD FIELD TECHNICIAN ON SITE, PERFORMED UNDERWATER PIPE LOCATING SERVICES ON THE SUBJECT SUBAQUEOUS CROSSING.

UNDERWATER DEPTH OF COVER READINGS ARE WHAT WERE INDICATED BY THE RD 7000 ON AUGUST 4, 2015.

UNDERWATER LOCATE READINGS

UNDERWATER LOCATES WERE CONDUCTED BY INDUCING A TONE INTO THE PIPE ON THE WEST SIDE OF THE RIVER. THE DIVE TEAM WAS ABLE TO GET DEPTH OF COVER READINGS AS INDICATED BY THE RD 7000 AT 9 STATIONS ACROSS THE RIVER.

DIVE TEAM WAS UNABLE TO GET ANY READINGS PAST THE EAST FENDER (HEADED EAST) AS THE SIGNAL INDUCED ON THE WEST SIDE WAS LOST. THE DIVE TEAM THEN INDUCED A TONE FROM THE EAST SIDE OF THE RIVER BUT COULD NOT GET A SIGNAL TO THE RIVER. THE FINDINGS AS INDICATED BY THE RD 7000 ARE AS FOLLOWS:

1. BRIDGE BENT B2 DEPTH OF COVER 4'4"
2. BRIDGE BENT B3 DEPTH OF COVER 5'

3. BRIDGE BENT P1 DEPTH OF COVER 7'2"
4. BRIDGE BENT P2 DEPTH OF COVER 11'11"
5. BRIDGE BENT P3 DEPTH OF COVER 22'
6. BRIDGE BENT P4 DEPTH OF COVER 17'8"
7. BRIDGE WEST FENDER DEPTH OF COVER 11'2"
8. BRIDGE CENTER CHANNEL DEPTH OF COVER 18'
9. BRIDGE EAST FENDER DEPTH OF COVER 22'

*BRIDGE BENT AND PIER DESIGNATIONS WERE TAKEN FROM ARC SURVEYING AND MAPPING DRAWING # C-14-50 BRIDGE #860018 OCT 21, 2014

*RD 7000 DEPTH OF COVER READINGS ARE MEASURED FROM THE CENTERLINE OF THE PIPE TO THE UNDERWATER GROUND LINE

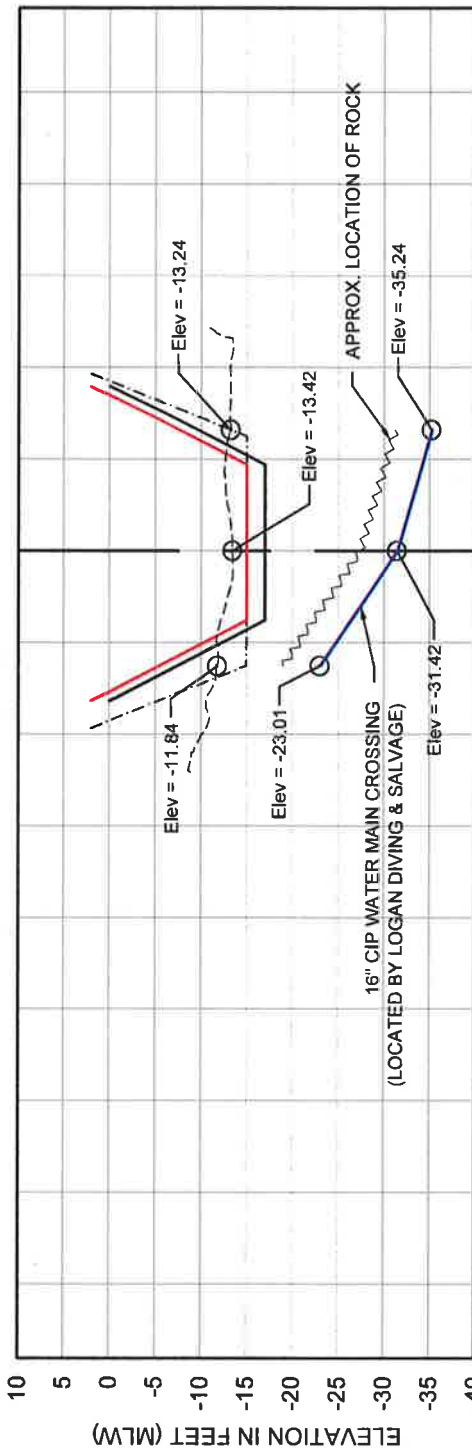
RECOMMENDATIONS:

- A) PLOT READINGS ON LATEST HYDROGRAPHIC SURVEY PROFILE
- B) COMPARE LOCATE INDICATED PIPE ELEVATIONS
- C) OVERLAY NEW DREDGE PROJECT DEPTH PROFILE ON EXISTING CROSSING PROFILE AND EVALUATE POTENTIAL FOR CONFLICT

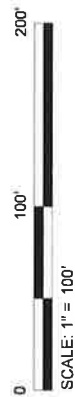
/SCOTT C. ANDERSON/

S. C. ANDERSON
PRESIDENT
LOGAN DIVING & SALVAGE
SANDERSON@LOGANDIVING.COM
WWW.LOGANDIVING.COM

103+49



- EXISTING CHANNEL
- PROPOSED CHANNEL
- - - FEDERAL CHANNEL
- WATER MAIN CROSSING
- ALLOWABLE OVERDREDGE
- SEAGRASS





TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD.
 BLDG. 300, SUITE 300
 JACKSONVILLE, FL 32256
 CERTIFICATE OF AUTHORIZATION # 4815

16" CIP WATER MAIN CROSSING
 LAS OLAS BRIDGE
 INTRACOASTAL WATERWAY DEEPENING
 BROWARD COUNTY, FLORIDA

PROJECT	C2005-076-11
DRAWN BY	CAS
SHEET	1 OF 1
DATE	AUG 2015

Los Olas Bridge

Legend

 E Las Olas Blvd

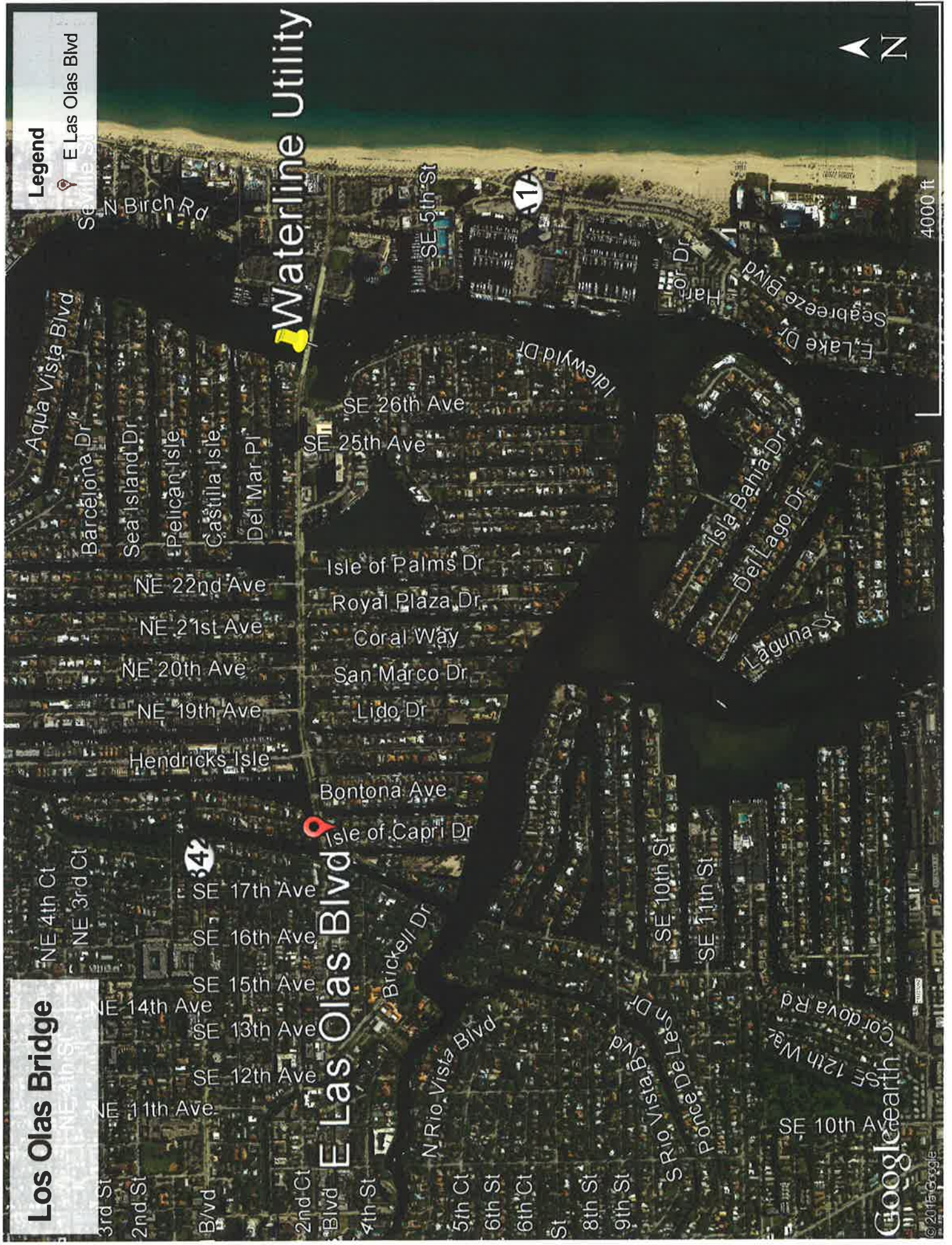
Waterline Utility

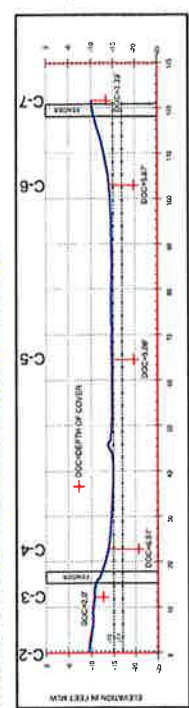
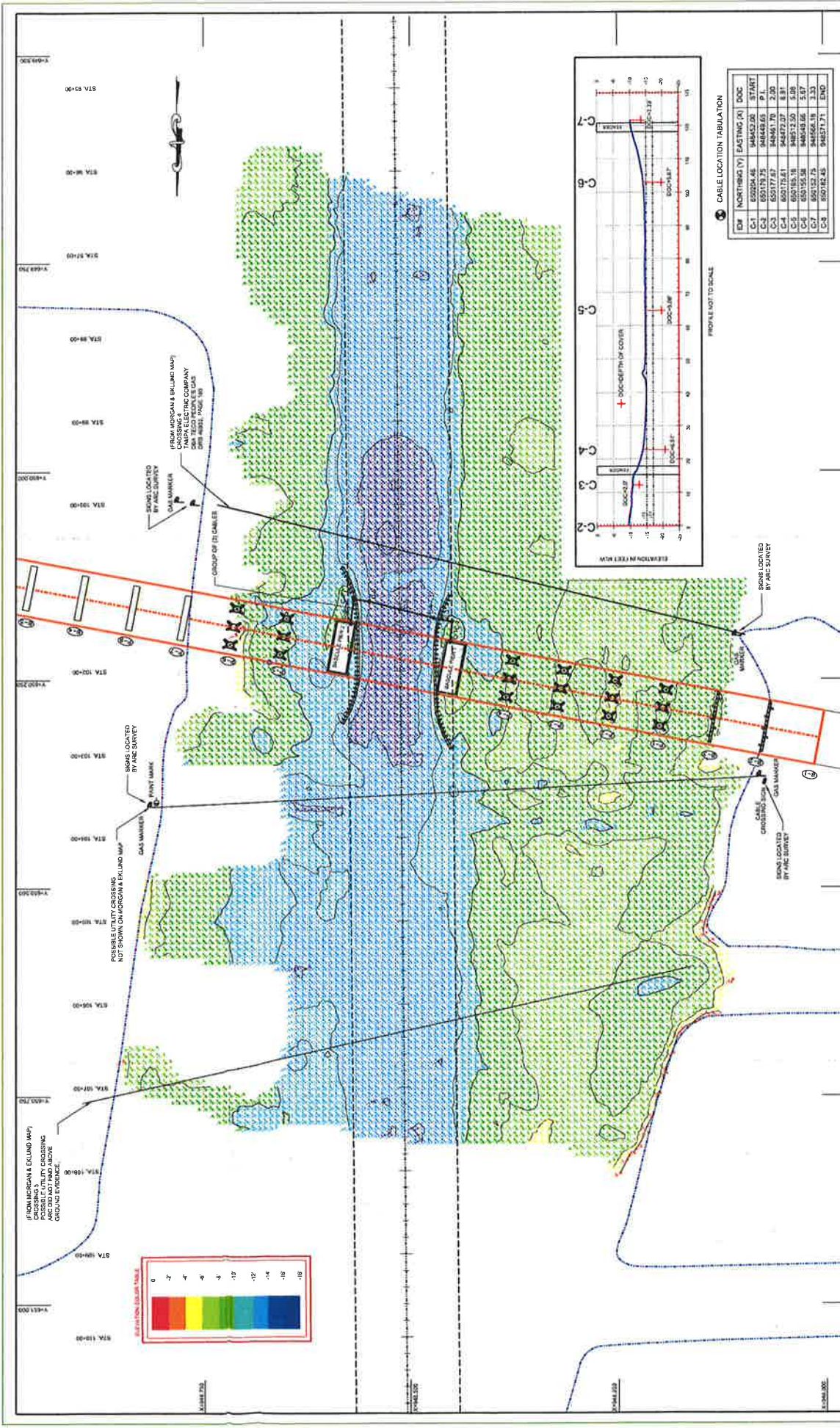


E Las Olas Blvd



4000 ft





3 CABLE LOCATION TABULATION

LINE	NORTHING (Y)	EASTING (X)	DOC
C-1	650204.45	848020.00	START
C-2	650177.42	848020.00	1.20
C-3	650177.42	848020.00	2.20
C-4	650175.61	848022.27	8.31
C-5	650185.16	848022.50	5.08
C-6	650195.98	848043.66	5.97
C-7	650122.75	848056.19	3.33
C-8	650182.45	848071.71	END

ARC SURVEYING & MAPPING, INC.
 1314 MARCHEWSKI ROAD
 JUPITER, FL 33476-0808
 (561) 744-1100
 www.arc-surveying.com

PROJECT NO.
14-10-06

FILE NO.
C-14-50

SHEET 2 OF 4

LEGEND/ABBREVIATIONS

- APPROXIMATE SHORELINE
- APPROXIMATE BRIDGE CENTERLINE
- MAJOR CONTOURS
- MINOR CONTOURS
- APPROXIMATE FOOTER CAPPILE

GRAPHIC SCALE

50 0 50 100
 FEET

PROPORTIONAL SCALE IN FEET

1"=50'

NOTES

1. SEE SHEET 1 FOR SURVEY NOTES

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BROWARD COUNTY, FLORIDA
BRIDGE 860018
CABLE LOCATION
HYDROGRAPHIC SURVEY
OCTOBER 21, 2014
PLAN VIEW

CLIENT
 NAVIGATION DISTRICT
 1314 MARCHEWSKI ROAD
 JUPITER, FL 33476-0808