



Legend of Abbreviations

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
M.L.W.	MEAN LOW WATER
R+	RED NAVIGATIONAL AID
G+	GREEN NAVIGATIONAL AID
RG	RED AND GREEN AID
PRIV	PRIVATE
RNG	NAVIGATION RANGE LINE
RSR	FRONT SAIL RANGE
RNG	REAR SAIL RANGE

Legend of Symbols

( )	BRIDGE FENDERS
LIGHT	LIGHT
TIDE GAUGE	TIDE GAUGE
RED LIGHTED BUOY	RED LIGHTED BUOY
GREEN LIGHTED BUOY	GREEN LIGHTED BUOY
RED AND GREEN DAYBEACON	RED AND GREEN DAYBEACON
GREEN AND RED DAYBEACON	GREEN AND RED DAYBEACON
RED DAYBEACON	RED DAYBEACON
GREEN DAYBEACON	GREEN DAYBEACON
COUNTY LINE	COUNTY LINE

- SURVEY NOTES:**
- REFER TO SURVEY NO. 61-889.
  - ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOW WATER. REFER TO TABLE THIS SHEET FOR NGVD CONVERSION.
  - ALL ELEVATIONS ARE BELOW THE REFERENCE PLANE UNLESS PRECEDED BY A (+) SIGN.
  - TIDAL REDUCTIONS WERE MADE FROM MULTIPLE LOCATIONS. REFER TO TIDE STAFF TABLE FOR STAFF LOCATIONS.
  - CENTERLINE DEPTHS WERE COLLECTED FROM JUNE 14, 2001 THRU JUNE 20, 2001. SPECIAL CROSS SECTION AREA DEPTHS WERE COLLECTED ON JUNE 27 AND 28, 2001. NAVIGATIONAL AIDS WERE COLLECTED FROM JUNE 21, 2001 THRU JUNE 24, 2001.
  - PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
  - ALL AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
  - SURVEY WAS PERFORMED USING DIFFERENTIAL GPS FOR POSITIONING AND UTILIZING THE USCG NAVBEACON SYSTEM AS THE REFERENCE SITE. VERTICAL MEASUREMENTS WERE MADE USING AN INERSPACE MODEL 440 DEPTH SOUNDER WITH A 2000HZ (HIGH FREQUENCY) TRANSDUCER.
  - AIDS TO NAVIGATION WERE LOCATED AS PART OF THIS SURVEY.
  - THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME.
  - STANDARD FIELD EQUIPMENT CALIBRATIONS WERE PERFORMED FOR THIS SURVEY AND ACCURACY RESULTS ARE WITHIN COE SPECIFICATIONS.
  - ALL PLANIMETRIC FEATURES ARE APPROXIMATE, DUE TO BEING SCALED FROM COMMERCIALY AVAILABLE QUADRANGLE MAPS.

NGVD 1929	MATLIES BRIDGE	0.1 M.L.W.
	ACOSTA BRIDGE	0.1 M.L.W.
	ORTEGA	0.3 M.L.W.
	ORANGE PARK	0.4 M.L.W.
	GREEN COVE SPRINGS	0.3 M.L.W.
	PALMETTO BLUFF BRIDGE FORT	0.2 M.L.W.
	BUFFALO BLUFF R.R. BRIDGE	0.3 M.L.W.
	WELAKA	0.3 M.L.W.
	NORTH END LAKE GEORGE	0.3 M.L.W.

**US Army Corps of Engineers Jacksonville District**

**SAFETY ON THIS JOB DEPENDS ON YOU**

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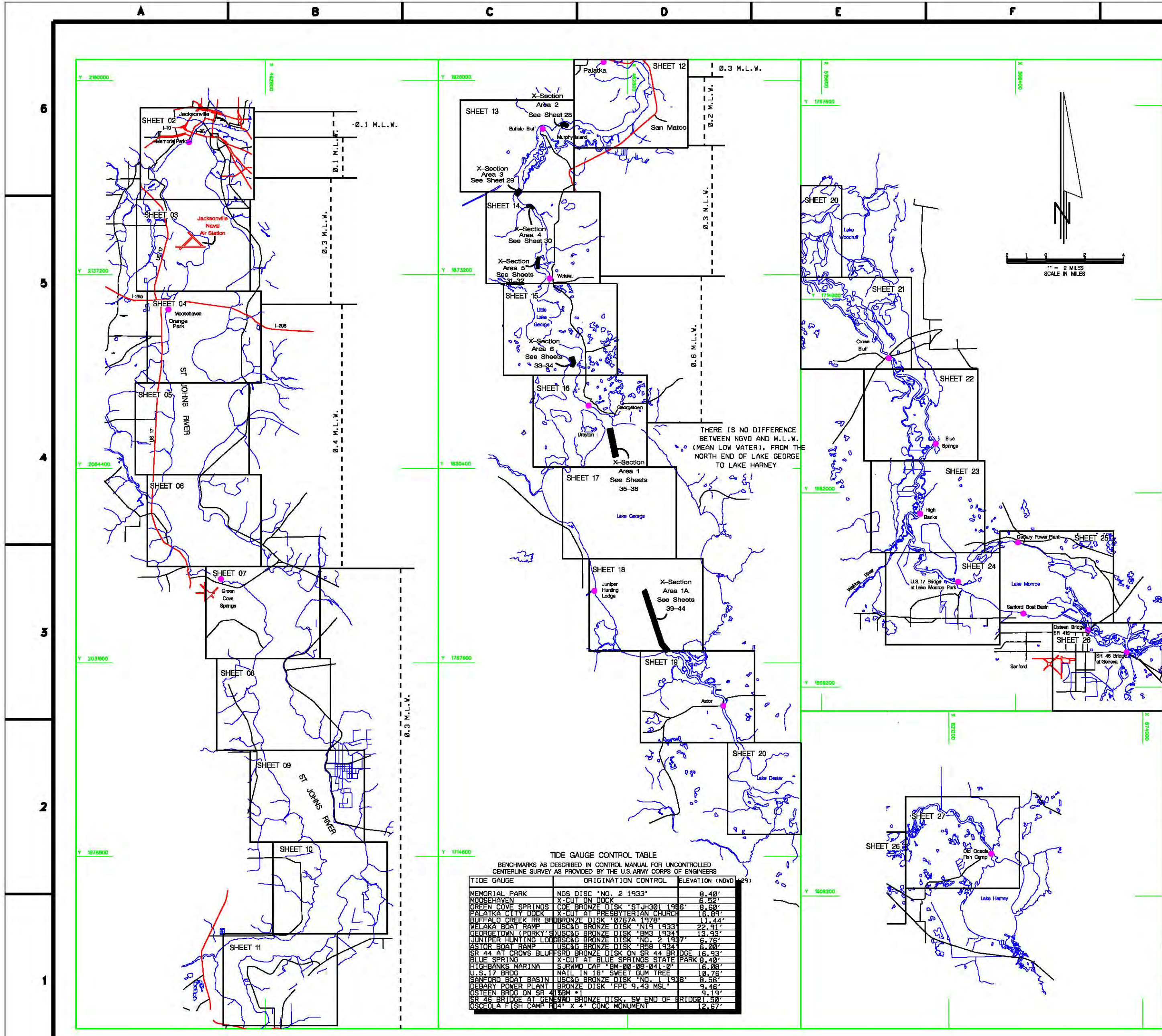
**DEPARTMENT OF THE ARMY**  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

**J.D. BRADLEY**  
5773 NORMANDY BOULEVARD  
JACKSONVILLE, FLORIDA 32216  
LAND SURVEYORS LICENSED BUSINESS NO. 6886

**ST. JOHNS RIVER, FLORIDA**  
JACKSONVILLE TO LAKE HARNEY  
PROJECT CONDITION SURVEY  
30, 15, 12, AND 5 FOOT PROJECT COVER

**DRAWING NO.**  
**1 / 44**

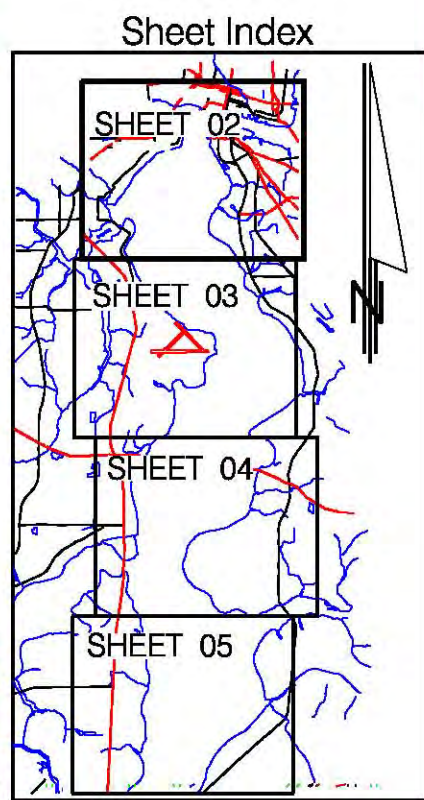
**SHEET 1 of 44**



**TIDE GAUGE CONTROL TABLE**  
BENCHMARKS AS DESCRIBED IN CONTROL MANUAL FOR UNCONTROLLED CENTERLINE SURVEY AS PROVIDED BY THE U.S. ARMY CORPS OF ENGINEERS

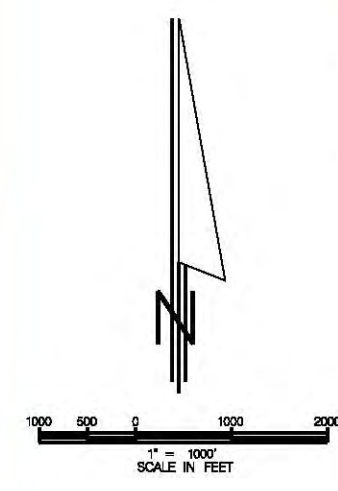
TIDE GAUGE	ORIGINATION CONTROL	ELEVATION (NGVD '29)
MEMORIAL PARK	NGS DISC NO. 2 1933	8.48
MOOSHAVEN	X-CUT ON DOCK	8.57
GREEN COVE SPRINGS COE	BRONZE DISK "S1JH301 1986"	8.69
PALATKA CITY DOCK	X-CUT AT PRESBYTERIAN CHURCH	16.89
BUFFALO CREEK RR	BRONZE DISK "0767A 1978"	11.44
WELAKA BOAT RAMP	USCG BRONZE DISK N19 1933	22.51
GEORGETOWN (POKY)	USCG BRONZE DISK "B83 1934"	13.53
JUNIPEH HUNTING LODGE	USCG BRONZE DISK "NO. 2 1937"	8.75
ASTOR BOAT RAMP	USCG BRONZE DISK "R88 1942"	6.68
SR 44 AT CROWS BLUES	SR BRONZE DISK ON SR 44 BRIDGE	16.93
BLUE SPRING	X-CUT AT BLUE SPRINGS STATE PARK	9.40
HIGHBANKS MARINA	SURVMO CAP "B82-88 841" 81	16.98
U.S. 17 BRIDGE	NAIL IN 18" SHEET GUM TREE	12.26
SANFORD BOAT BASIN	USCG BRONZE DISK "NO. 1 1938"	8.58
SEBARY POWER PLANT	BRONZE DISK "PP 9 1938 MSL"	9.45
OSTEEN BRIDGE ON SR 41	"1	9.19
SR 26 BRIDGE AT GENEVA	BRONZE DISK, SW END OF BRIDGE	12.50
OSCEOLA FISH CAMP	6'4" X 4" CONG. MONUMENT	12.67

THERE IS NO DIFFERENCE BETWEEN NGVD AND M.L.W. (MEAN LOW WATER), FROM THE NORTH END OF LAKE GEORGE TO LAKE HARNEY



Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
R80	81° 37' 47.48260"	30° 18' 54.79607"	06/29/01
G81	81° 38' 13.32937"	30° 18' 54.15542"	06/29/01
R82	81° 38' 11.47416"	30° 18' 59.45058"	06/29/01
G1	81° 40' 25.87005"	30° 17' 48.56000"	06/29/01
R2	81° 40' 38.20845"	30° 17' 37.69025"	06/29/01
G3	81° 40' 13.27099"	30° 16' 43.03772"	06/29/01



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RND	REAR SAIL RANGE

Legend of Symbols

[Symbol]	BRIDGE FENDERS
[Symbol]	LIGHT
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[Symbol]	RED LIGHTED BUOY
[Symbol]	GREEN LIGHTED BUOY
[Symbol]	RED AND GREEN DAYBEACON
[Symbol]	GREEN AND RED DAYBEACON
[Symbol]	RED DAYBEACON
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[Symbol]	COUNTY LINE

NOTES:  
 1. REFER TO SURVEY NO. 01-009.  
 2. SEE SHEET 1 FOR NOTES.

US Army Corps of Engineers  
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 JACKSONVILLE, FLORIDA

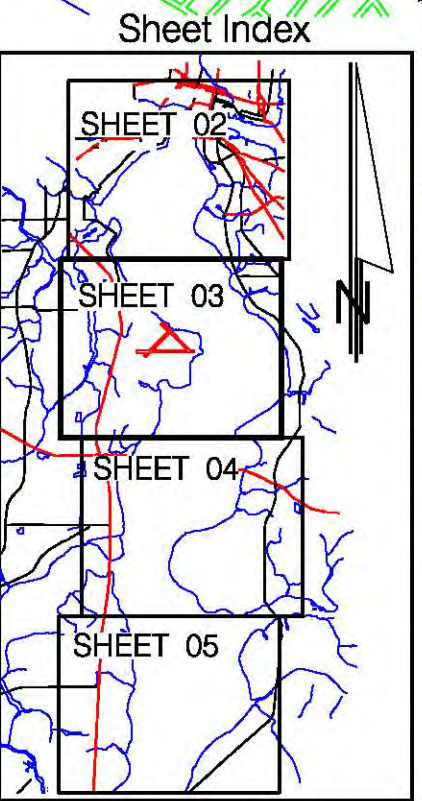
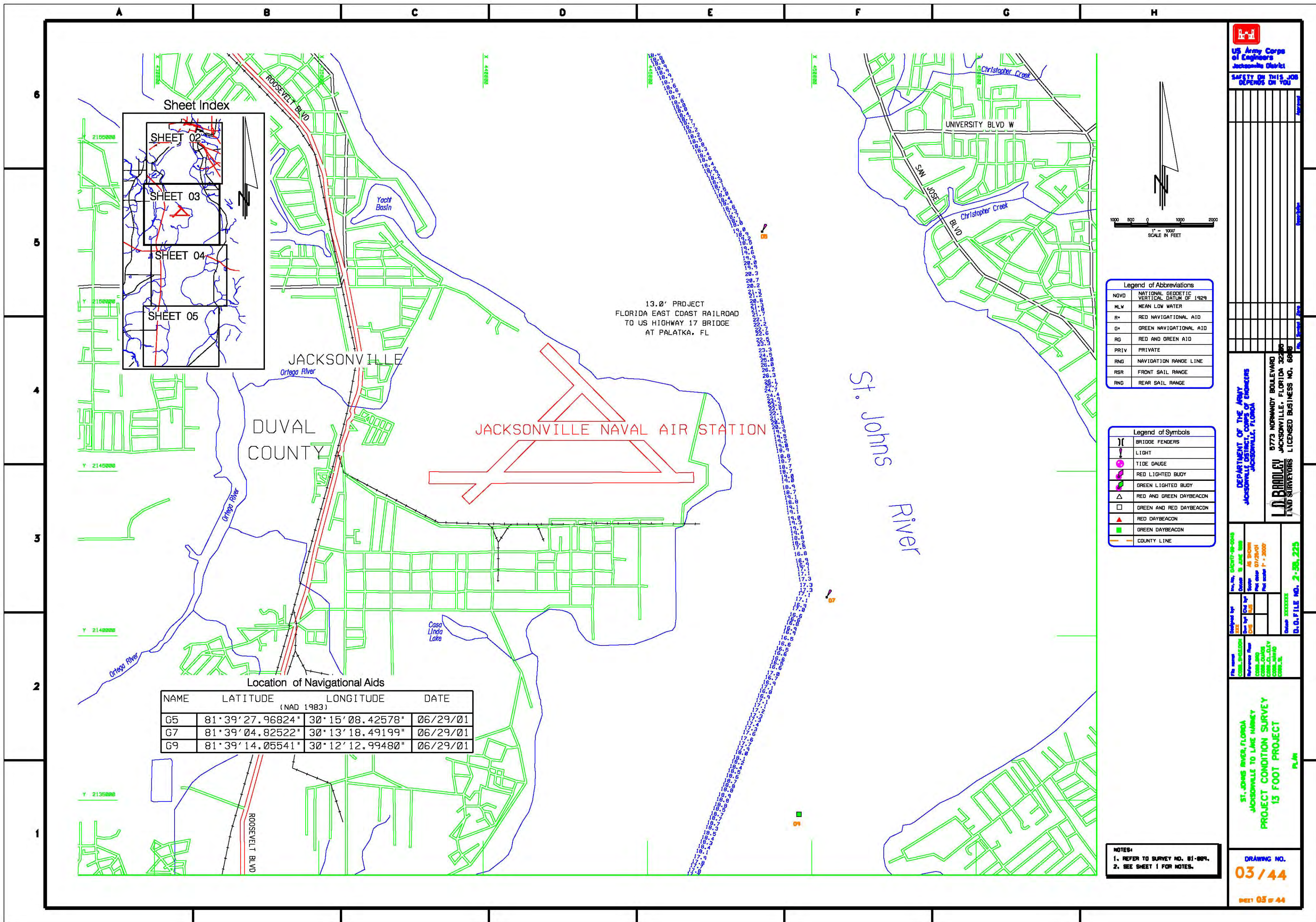
L.D. BRADLEY  
 JACKSONVILLE, FLORIDA 32209  
 LAND SURVEYORS LICENSED BUSINESS NO. 6808

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ST. JOHNS RIVER, FLORIDA  
 JACKSONVILLE TO LAKE HAWNEY  
 PROJECT CONDITION SURVEY  
 30 AND 13 FOOT PROJECT  
 PLAN

DRAWING NO. 02/44  
 SHEET 02 of 44

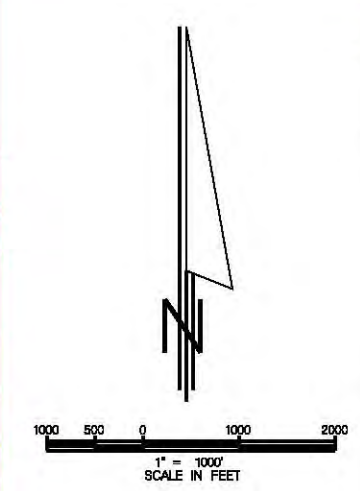
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13.0' PROJECT  
FLORIDA EAST COAST RAILROAD  
TO US HIGHWAY 17 BRIDGE  
AT PALATKA, FL

Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
G5	81°39'27.96824"	30°15'08.42578"	06/29/01
G7	81°39'04.82522"	30°13'18.49199"	06/29/01
G9	81°39'14.05541"	30°12'12.99480"	06/29/01



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⬆	GREEN AND RED DAYBEACON
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NOTES:  
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2. SEE SHEET 1 FOR NOTES.

**US Army Corps of Engineers**  
Jacksonville District  
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DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

5773 NORMANDY BOULEVARD  
JACKSONVILLE, FLORIDA 32209  
LICENSED BUSINESS NO. 66887

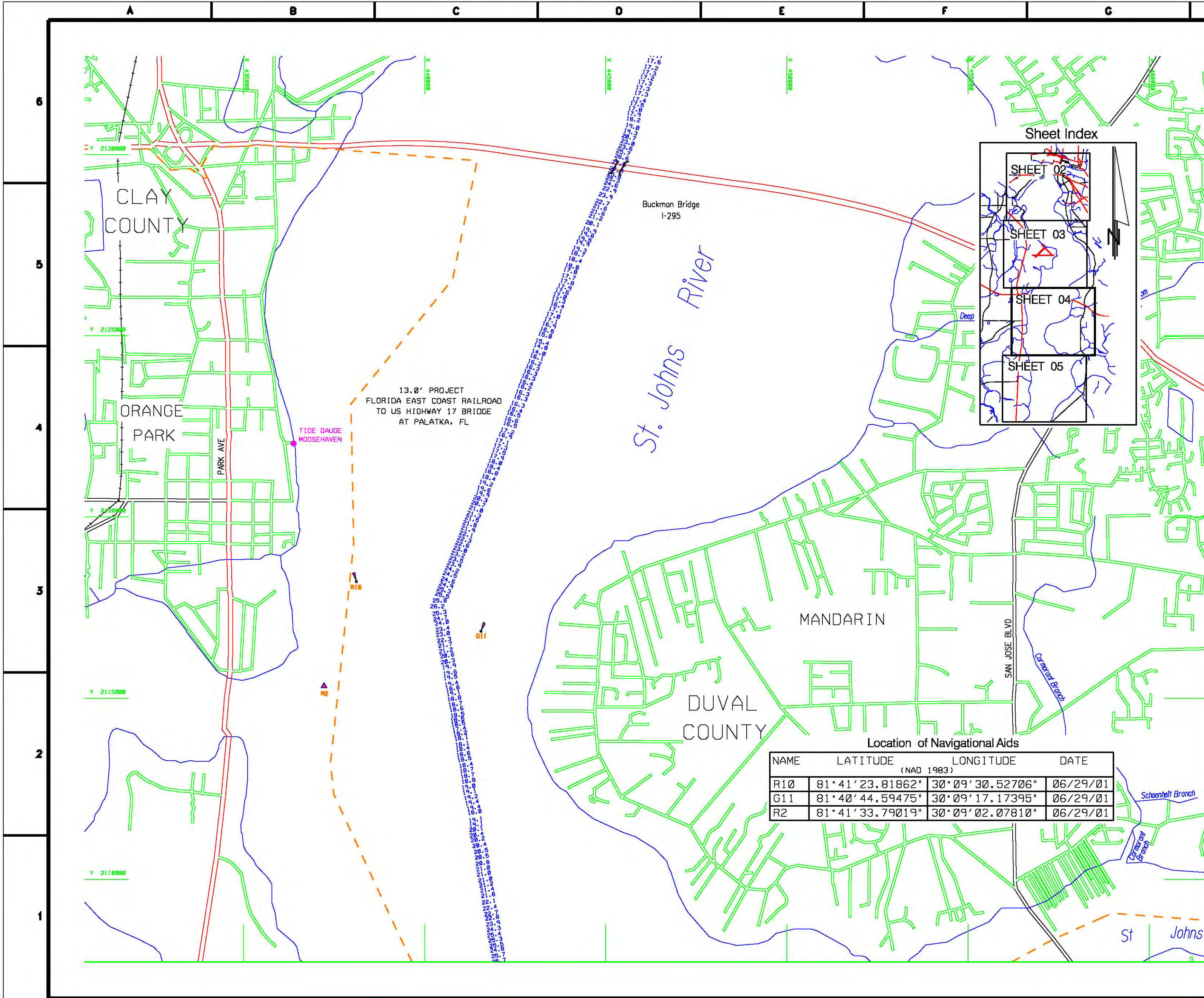
**J.D. BRADLEY**  
LAND SURVEYORS

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PROJECT: ST. JOHNS RIVER, FLORIDA  
PROJECT CONDITION SURVEY  
13 FOOT PROJECT

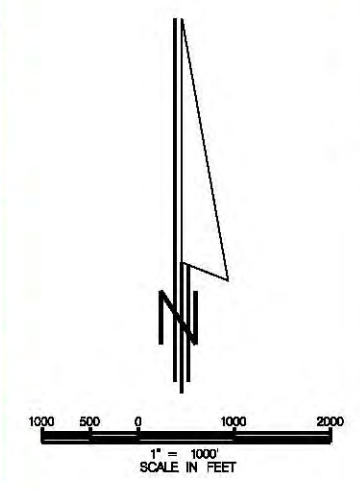
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DRAWING NO.  
**03/44**

SHEET 05 OF 44



US Army Corps of Engineers  
Jacksonville District  
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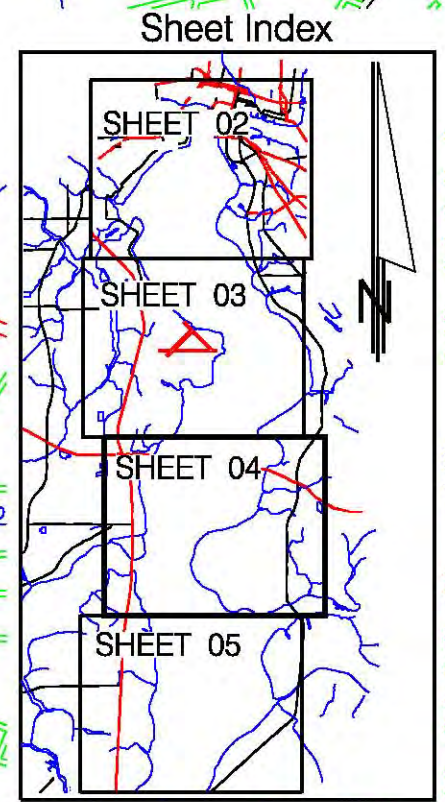


Legend of Abbreviations

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[Symbol]	RED DAYBEACON
[Symbol]	GREEN DAYBEACON
[Symbol]	COUNTY LINE



Location of Navigational Aids

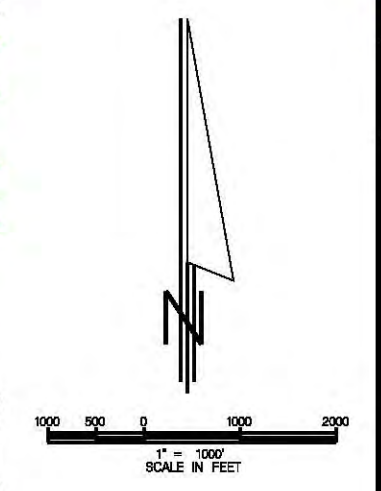
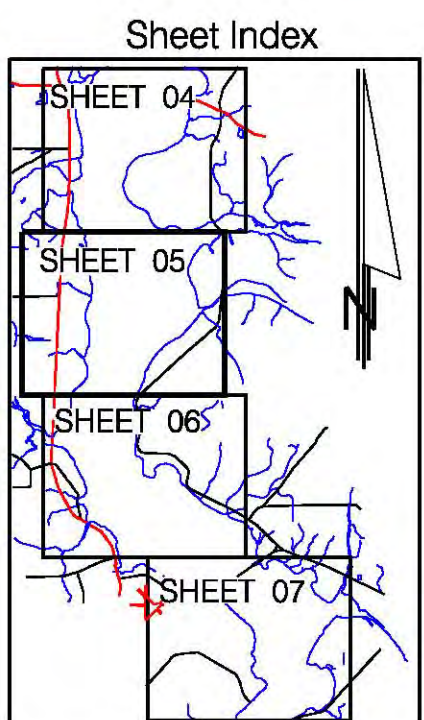
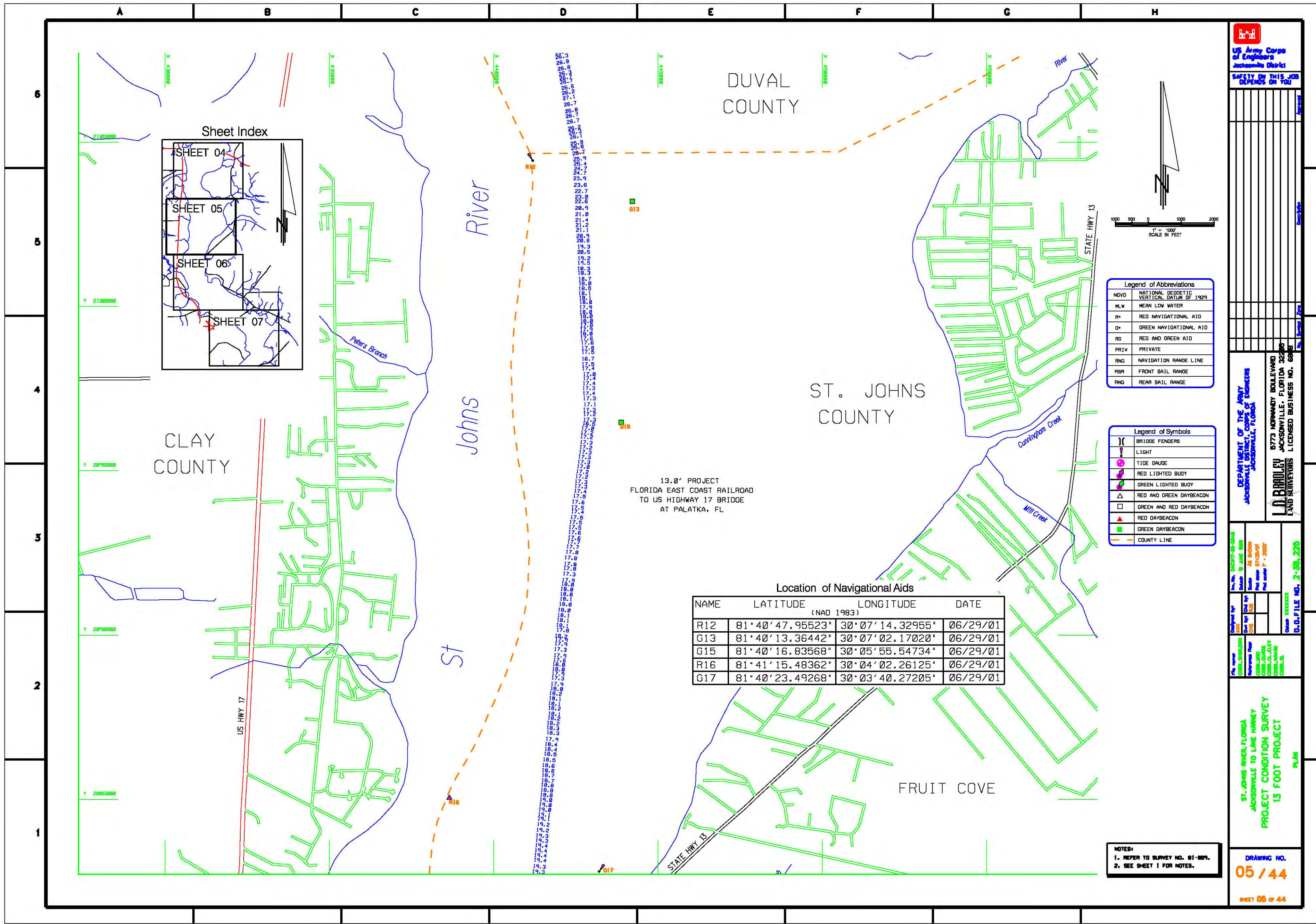
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R10	81° 41' 23.81862"	30° 09' 30.52706"	06/29/01
G11	81° 40' 44.59475"	30° 09' 17.17395"	06/29/01
R2	81° 41' 33.79019"	30° 09' 02.07810"	06/29/01

NOTES:  
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DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA  
L.D. BRADLEY  
LAND SURVEYORS LICENSED BUSINESS NO. 6888

ST. JOHNS RIVER, FLORIDA  
JACKSONVILLE TO LAKE HAWLEY  
PROJECT CONDITION SURVEY  
13 FOOT PROJECT  
PLAN

DRAWING NO.  
**04 / 44**  
SHEET 04 of 44



Legend of Abbreviations

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Legend of Symbols

	BRIDGE FENDERS
	LIGHT
	TIDE GAUGE
	RED LIGHTED BODY
	GREEN LIGHTED BODY
	RED AND GREEN DAYBEACON
	GREEN AND RED DAYBEACON
	RED DAYBEACON
	GREEN DAYBEACON
	COUNTY LINE

Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
R12	81°40'47.95523"	30°07'14.32955"	06/29/01
G13	81°40'13.36442"	30°07'02.17020"	06/29/01
G15	81°40'16.83568"	30°05'55.54734"	06/29/01
R16	81°41'15.48362"	30°04'02.26125"	06/29/01
G17	81°40'23.49268"	30°03'40.27205"	06/29/01

13.0' PROJECT  
FLORIDA EAST COAST RAILROAD  
TO US HIGHWAY 17 BRIDGE  
AT PALATKA, FL

US Army Corps of Engineers  
Jacksonville District

SAFETY IS YOUR JOB  
DEPENDS ON YOU

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

LD BRADLEY  
LAND SURVEYORS  
0773 NORMANDY BOULEVARD  
JACKSONVILLE, FLORIDA 32206  
LICENSED BUSINESS NO. 6885

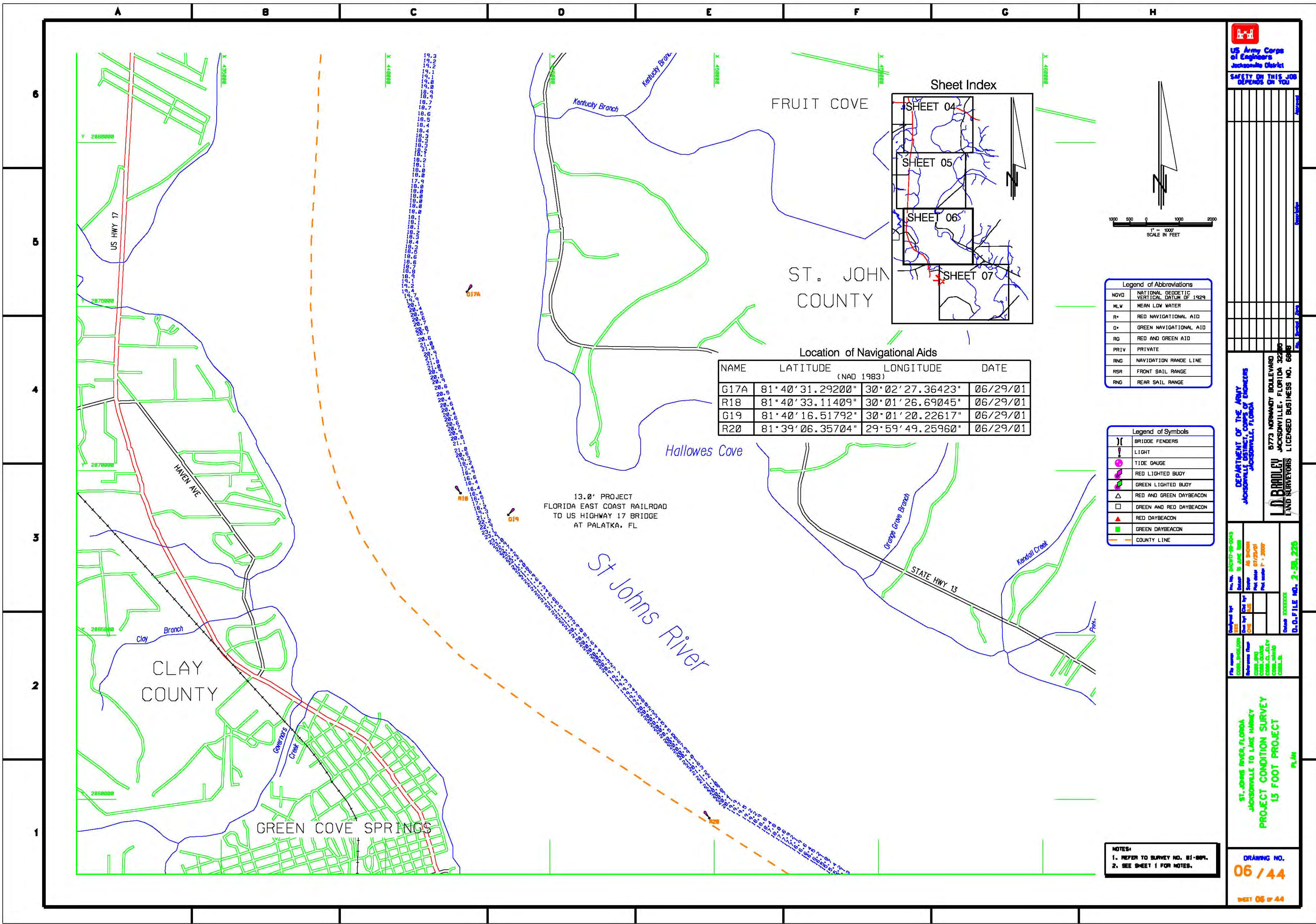
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CHECKED BY: LD BRADLEY  
DATE: 07/20/01

ST. JOHNS RIVER, FLORIDA  
JACKSONVILLE TO LAKE HAWKEYE  
PROJECT CONDITION SURVEY  
13 FOOT PROJECT  
PLAN

NOTES:  
1. REFER TO SURVEY NO. 01-009.  
2. SEE SHEET 1 FOR NOTES.

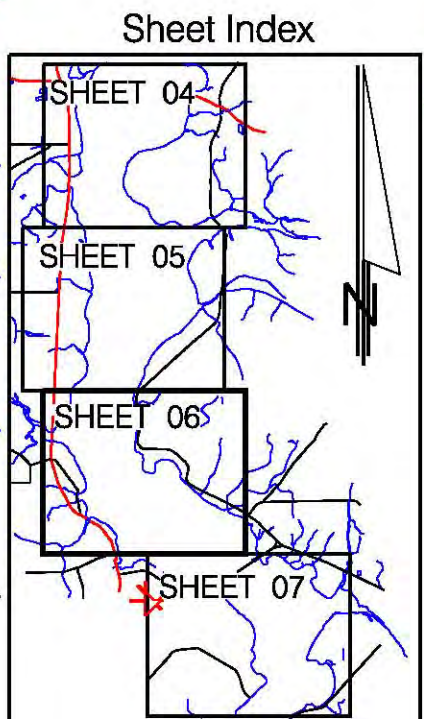
DRAWING NO.  
**05 / 44**

SHEET 05 OF 44



**Location of Navigational Aids**

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
G17A	81°40'31.29200"	30°02'27.36423"	06/29/01
R18	81°40'33.11409"	30°01'26.69045"	06/29/01
G19	81°40'16.51792"	30°01'20.22617"	06/29/01
R20	81°39'06.35704"	29°59'49.25960"	06/29/01



**Legend of Abbreviations**

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**Legend of Symbols**

	BRIDGE FENDERS
	LIGHT
	TIDE GAUGE
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	RED AND GREEN DAYBEACON
	GREEN AND RED DAYBEACON
	RED DAYBEACON
	GREEN DAYBEACON
	COUNTY LINE

**NOTES:**  
 1. REFER TO SURVEY NO. 81-804.  
 2. SEE SHEET 1 FOR NOTES.

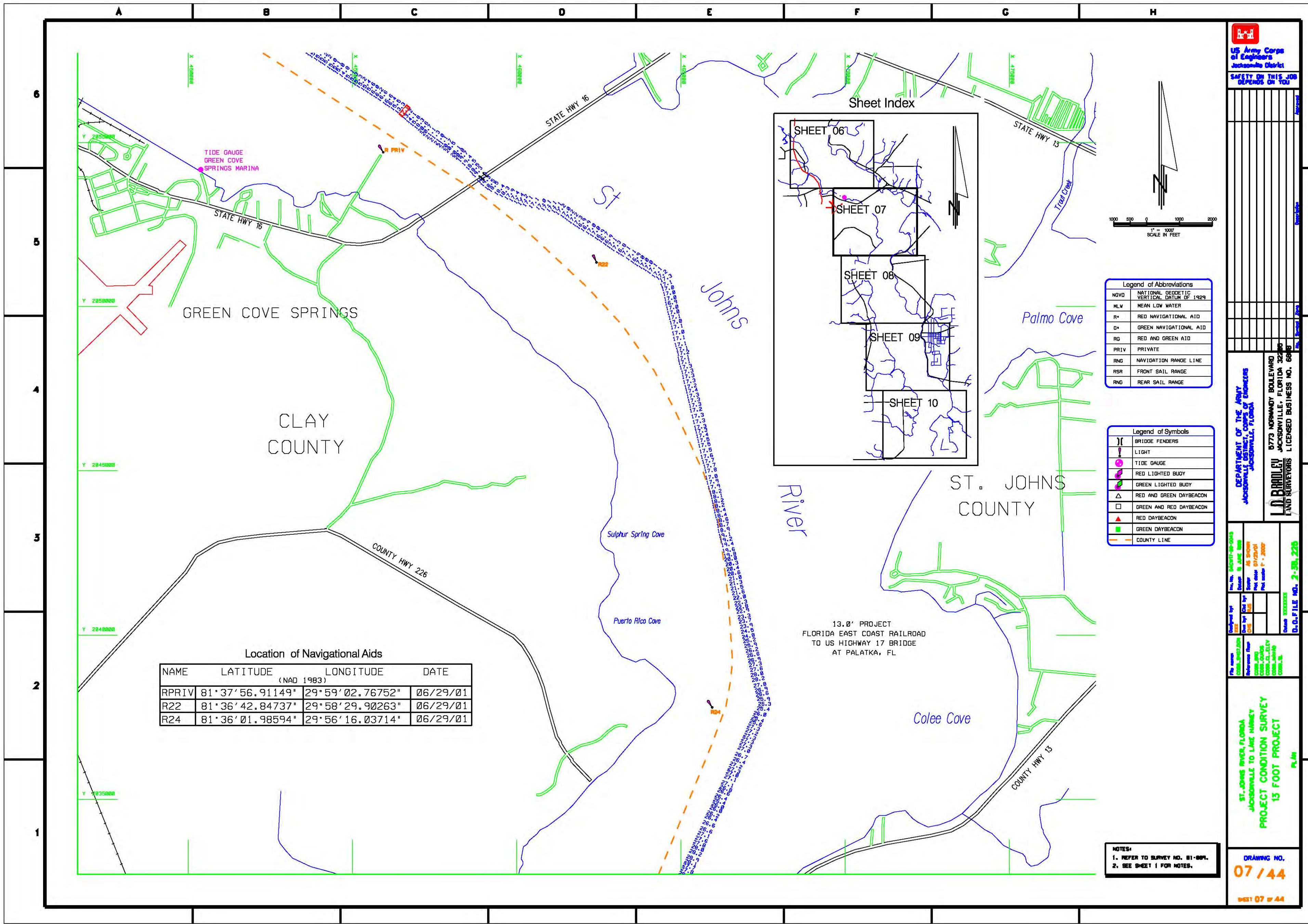
**US Army Corps of Engineers**  
 Jacksonville District  
**SAFETY ON THIS JOB DEPENDS ON YOU**

**DEPARTMENT OF THE ARMY**  
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
 JACKSONVILLE, FLORIDA  
**L.D. BRADLEY**  
 8773 NORMANDY BOULEVARD  
 JACKSONVILLE, FLORIDA 32209  
 LAND SURVEYORS LICENSED BUSINESS NO. 6888

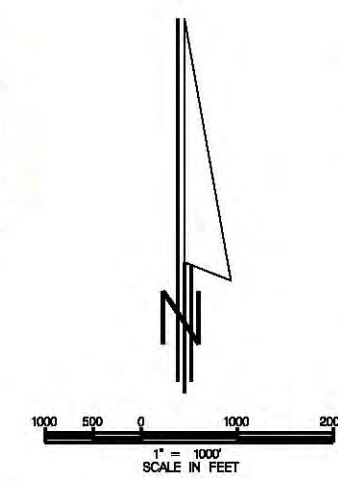
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 Date: 1-2007

**ST. JOHNS RIVER, FLORIDA**  
**JACKSONVILLE TO LAKE HAWNEY**  
**PROJECT CONDITION SURVEY**  
**13 FOOT PROJECT**  
 PLAN

**DRAWING NO.**  
**06 / 44**  
 SHEET 06 of 44




  
**US Army Corps of Engineers**  
 Jacksonville District  
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	COUNTY LINE

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
RPRIV	81°37'56.91149"	29°59'02.76752"	06/29/01
R22	81°36'42.84737"	29°58'29.90263"	06/29/01
R24	81°36'01.98594"	29°56'16.03714"	06/29/01

13.0' PROJECT  
 FLORIDA EAST COAST RAILROAD  
 TO US HIGHWAY 17 BRIDGE  
 AT PALATKA, FL

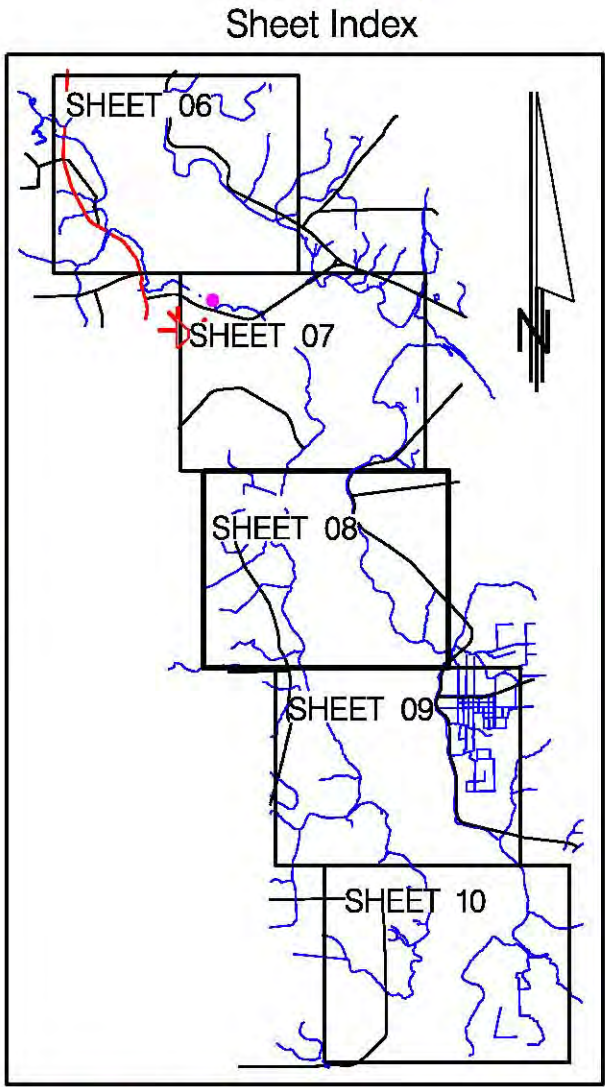
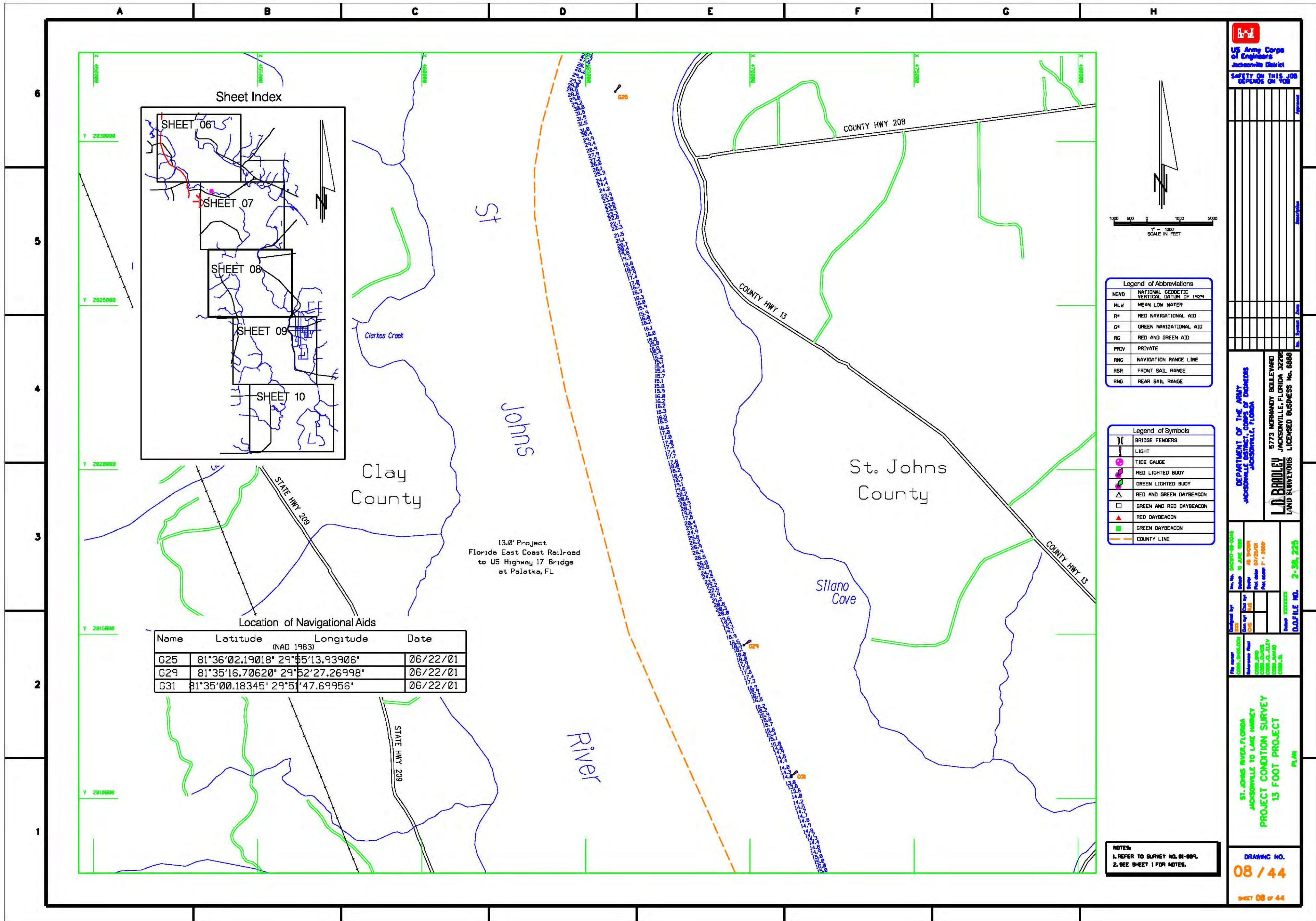
DEPARTMENT OF THE ARMY  
 JACKSONVILLE DISTRICT, Corps of Engineers  
 JACKSONVILLE, FLORIDA  
**L.D. BRADLEY**  
 8773 NORMANDY BOULEVARD  
 JACKSONVILLE, FLORIDA 32216  
 LAND SURVEYORS LICENSED BUSINESS NO. 6888

Checked by	DATE	Checked by	DATE

ST. JOHNS RIVER, FLORIDA  
 JACKSONVILLE TO LAKE HUBERTY  
 PROJECT CONDITION SURVEY  
 15 FOOT PROJECT  
 PLAN

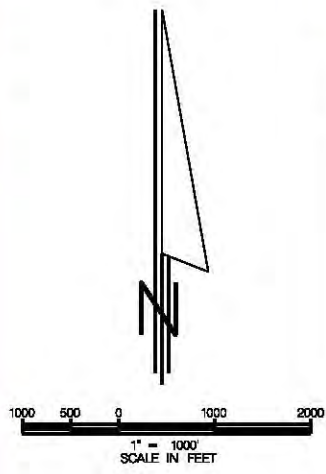
**NOTES:**  
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 2. SEE SHEET 1 FOR NOTES.

**DRAWING NO.**  
**07 / 44**  
 SHEET 07 of 44



Location of Navigational Aids

Name	Latitude (NAD 1983)	Longitude	Date
G25	81°36'02.19018" 29°55'13.93906"		06/22/01
G29	81°35'16.70620" 29°52'27.26998"		06/22/01
G31	81°35'00.18345" 29°51'47.69956"		06/22/01



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■	GREEN DAYBEACON
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US Army Corps of Engineers  
Jacksonville District  
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DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT OFFICE OF ENGINEERS  
JACKSONVILLE, FLORIDA

5773 NORWADY BOULEVARD  
JACKSONVILLE, FLORIDA 32206  
LAND SURVEYORS LICENSED BUSINESS NO. 6988

Project No. 060704-001  
Issue 10 JUL 08  
Scale AS SHOWN  
Sheet Date 07/26/08  
Sheet Size 11" x 20 1/2"

Drawn by: [Name]  
Checked by: [Name]  
Reviewed by: [Name]  
Date: [Date]

Project: ST. JOHNS RIVER, FLORIDA  
PROJECT CONDITION SURVEY  
13 FOOT PROJECT  
FL 08

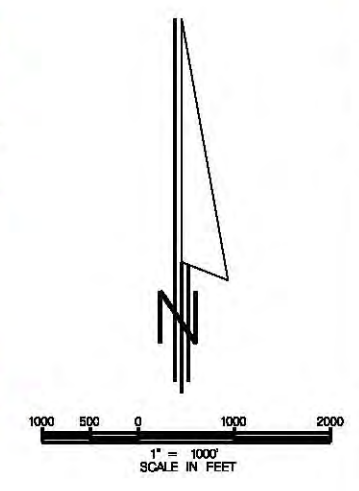
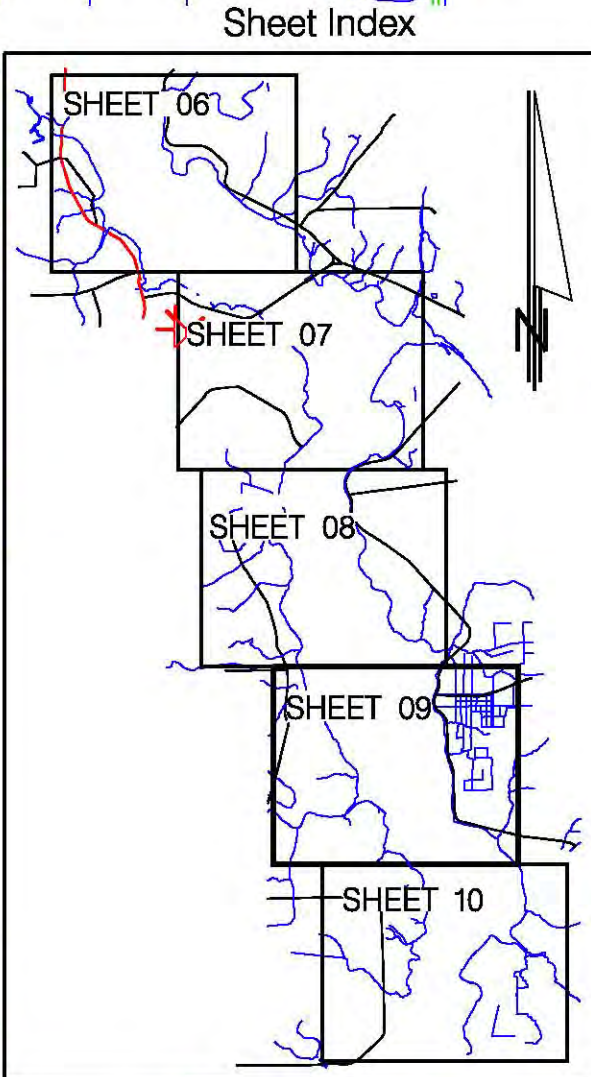
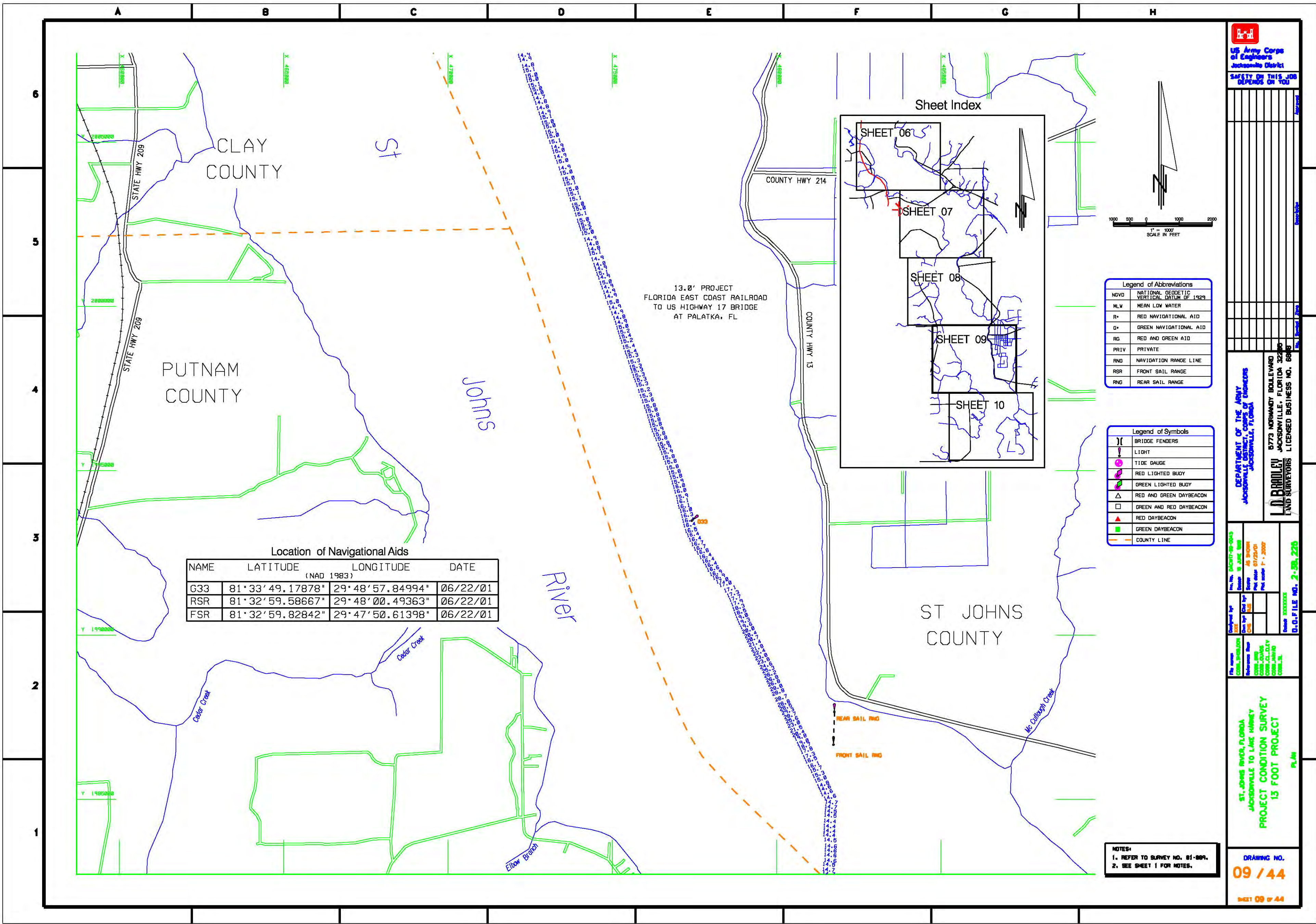
ST. JOHNS RIVER, FLORIDA  
JACKSONVILLE TO LAKE HURLEY  
PROJECT CONDITION SURVEY  
13 FOOT PROJECT  
FL 08

NOTES:  
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2. SEE SHEET 1 FOR NOTES.

DRAWING NO.  
**08 / 44**

SHEET 08 OF 44





Legend of Abbreviations

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
MLW	MEAN LOW WATER
R+	RED NAVIGATIONAL AID
G+	GREEN NAVIGATIONAL AID
RG	RED AND GREEN AID
PRIV	PRIVATE
RNG	NAVIGATION RANGE LINE
RSR	FRONT SAIL RANGE
RNG	REAR SAIL RANGE

Legend of Symbols

	BRIDGE FENDERS
	LIGHT
	TIDE GAUGE
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	RED AND GREEN DAYBEACON
	GREEN AND RED DAYBEACON
	RED DAYBEACON
	GREEN DAYBEACON
	COUNTY LINE

Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
G33	81° 33' 49.17878"	29° 48' 57.84994"	06/22/01
RSR	81° 32' 59.58667"	29° 48' 00.49363"	06/22/01
FSR	81° 32' 59.82842"	29° 47' 50.61398"	06/22/01

NOTES:  
 1. REFER TO SURVEY NO. 81-809.  
 2. SEE SHEET 1 FOR NOTES.



US Army Corps of Engineers  
 Jacksonville District

SAFETY ON THIS JOB  
 DEPENDS ON YOU

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

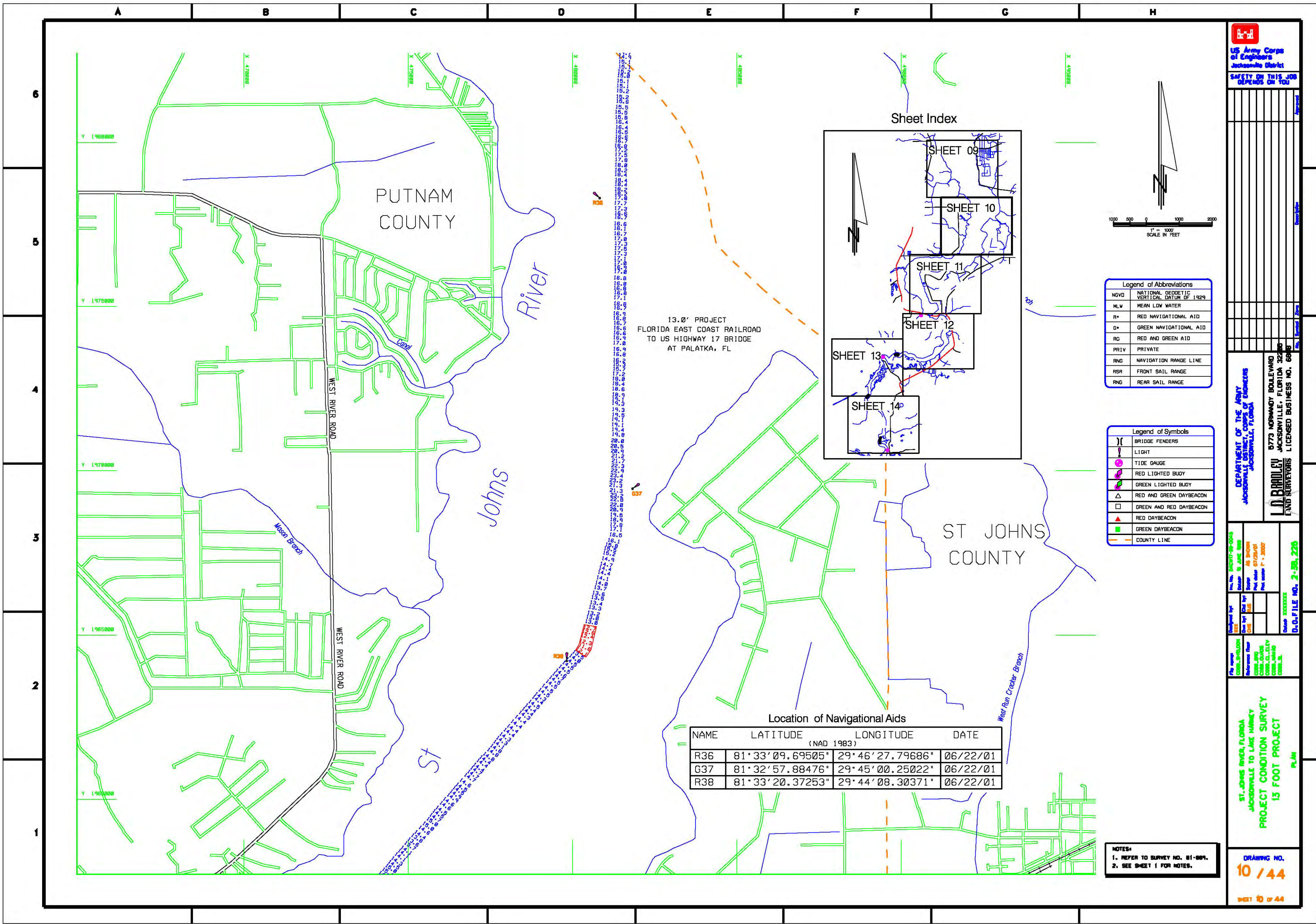
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 LAND SURVEYORS LICENSED BUSINESS NO. 6888

Project No. 81-809-09  
 Date: 06/22/01  
 Scale: AS SHOWN  
 Date: 06/22/01  
 Project No. 81-809-09  
 Date: 06/22/01

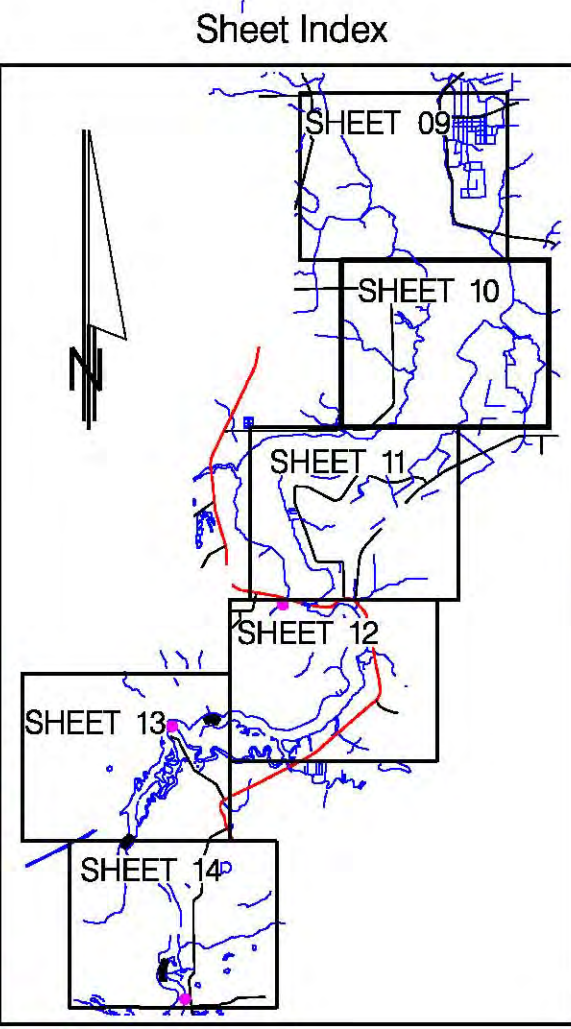
ST. JOHNS RIVER, FLORIDA  
 JACKSONVILLE TO LAKE HAWNEY  
 PROJECT CONDITION SURVEY  
 13 FOOT PROJECT  
 PLAN

DRAWING NO.  
**09 / 44**

SHEET 09 of 44



13.0' PROJECT  
FLORIDA EAST COAST RAILROAD  
TO US HIGHWAY 17 BRIDGE  
AT PALATKA, FL



Legend of Abbreviations

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
MLW	MEAN LOW WATER
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Legend of Symbols

	BRIDGE FENDERS
	LIGHT
	TIDE GAUGE
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	RED AND GREEN DAYBEACON
	GREEN AND RED DAYBEACON
	RED DAYBEACON
	GREEN DAYBEACON
	COUNTY LINE

Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
R36	81° 33' 09.69505"	29° 46' 27.79686"	06/22/01
G37	81° 32' 57.88476"	29° 45' 00.25022"	06/22/01
R38	81° 33' 20.37253"	29° 44' 08.30371"	06/22/01

NOTES:  
1. REFER TO SURVEY NO. 81-004.  
2. SEE SHEET 1 FOR NOTES.

US Army Corps of Engineers  
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

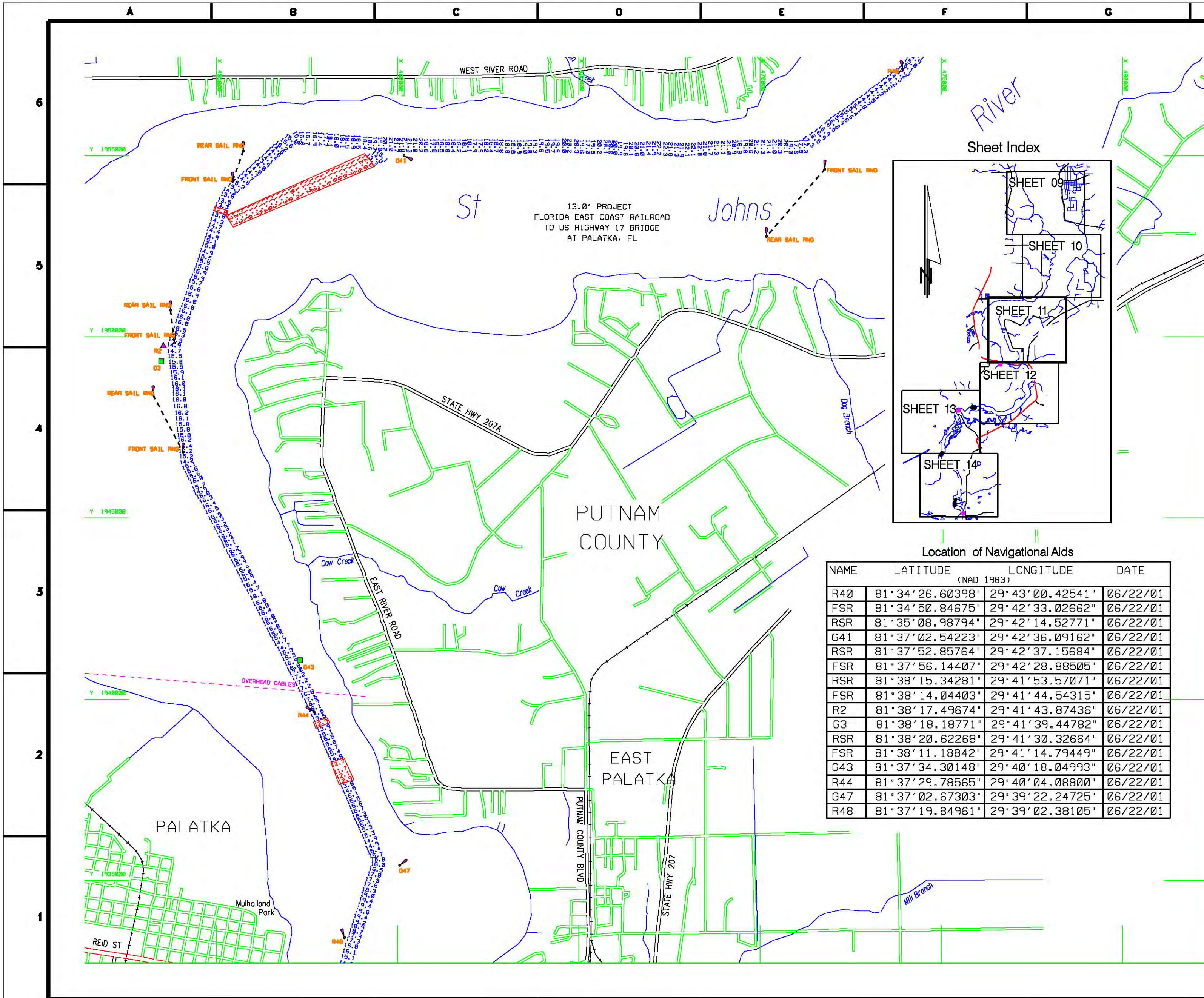
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

L.D. BRADLEY  
LAND SURVEYORS LICENSED BUSINESS NO. 6888

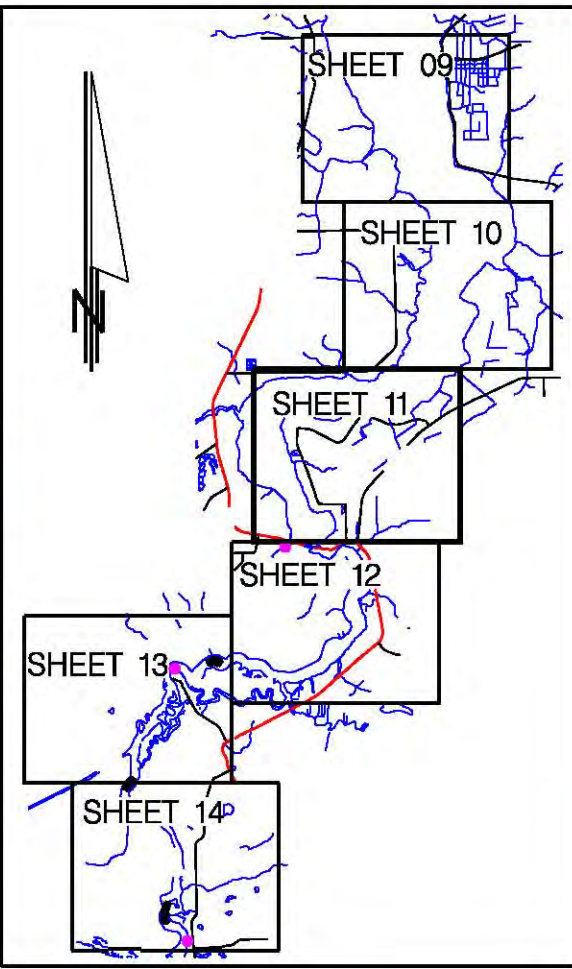
ST. JOHNS RIVER, FLORIDA  
JACKSONVILLE TO LAKE HAWNEY  
PROJECT CONDITION SURVEY  
15 FOOT PROJECT  
PLAN

DRAWING NO.  
10 / 44

SHEET 10 OF 44

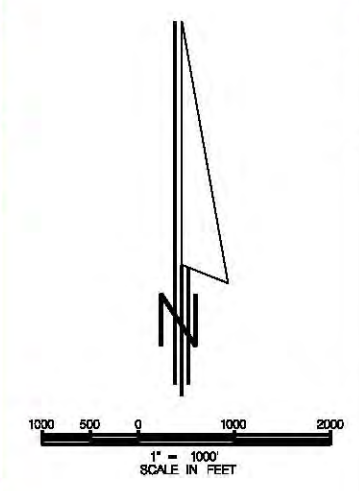


13.0' PROJECT  
FLORIDA EAST COAST RAILROAD  
TO US HIGHWAY 17 BRIDGE  
AT PALATKA, FL



Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
R40	81°34'26.60398"	29°43'00.42541"	06/22/01
FSR	81°34'50.84675"	29°42'33.02662"	06/22/01
RSR	81°35'08.98794"	29°42'14.52771"	06/22/01
G41	81°37'02.54223"	29°42'36.09162"	06/22/01
RSR	81°37'52.85764"	29°42'37.15684"	06/22/01
FSR	81°37'56.14407"	29°42'28.88505"	06/22/01
RSR	81°38'15.34281"	29°41'53.57071"	06/22/01
FSR	81°38'14.04403"	29°41'44.54315"	06/22/01
R2	81°38'17.49674"	29°41'43.87436"	06/22/01
G3	81°38'18.18771"	29°41'39.44782"	06/22/01
RSR	81°38'20.62268"	29°41'30.32664"	06/22/01
FSR	81°38'11.18842"	29°41'14.79449"	06/22/01
G43	81°37'34.30148"	29°40'18.04993"	06/22/01
R44	81°37'29.78565"	29°40'04.08800"	06/22/01
G47	81°37'02.67303"	29°39'22.24725"	06/22/01
R48	81°37'19.84961"	29°39'02.38105"	06/22/01



Legend of Abbreviations

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
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Legend of Symbols

( )	BRIDGE FENDERS
( )	LIGHT
( )	TIDE GAUGE
( )	RED LIGHTED BUOY
( )	GREEN LIGHTED BUOY
( )	RED AND GREEN DAYBEACON
( )	GREEN AND RED DAYBEACON
( )	RED DAYBEACON
( )	GREEN DAYBEACON
( )	COUNTY LINE

NOTES:  
1. REFER TO SURVEY NO. 01-009.  
2. SEE SHEET 1 FOR NOTES.

US Army Corps of Engineers  
Jacksonville District  
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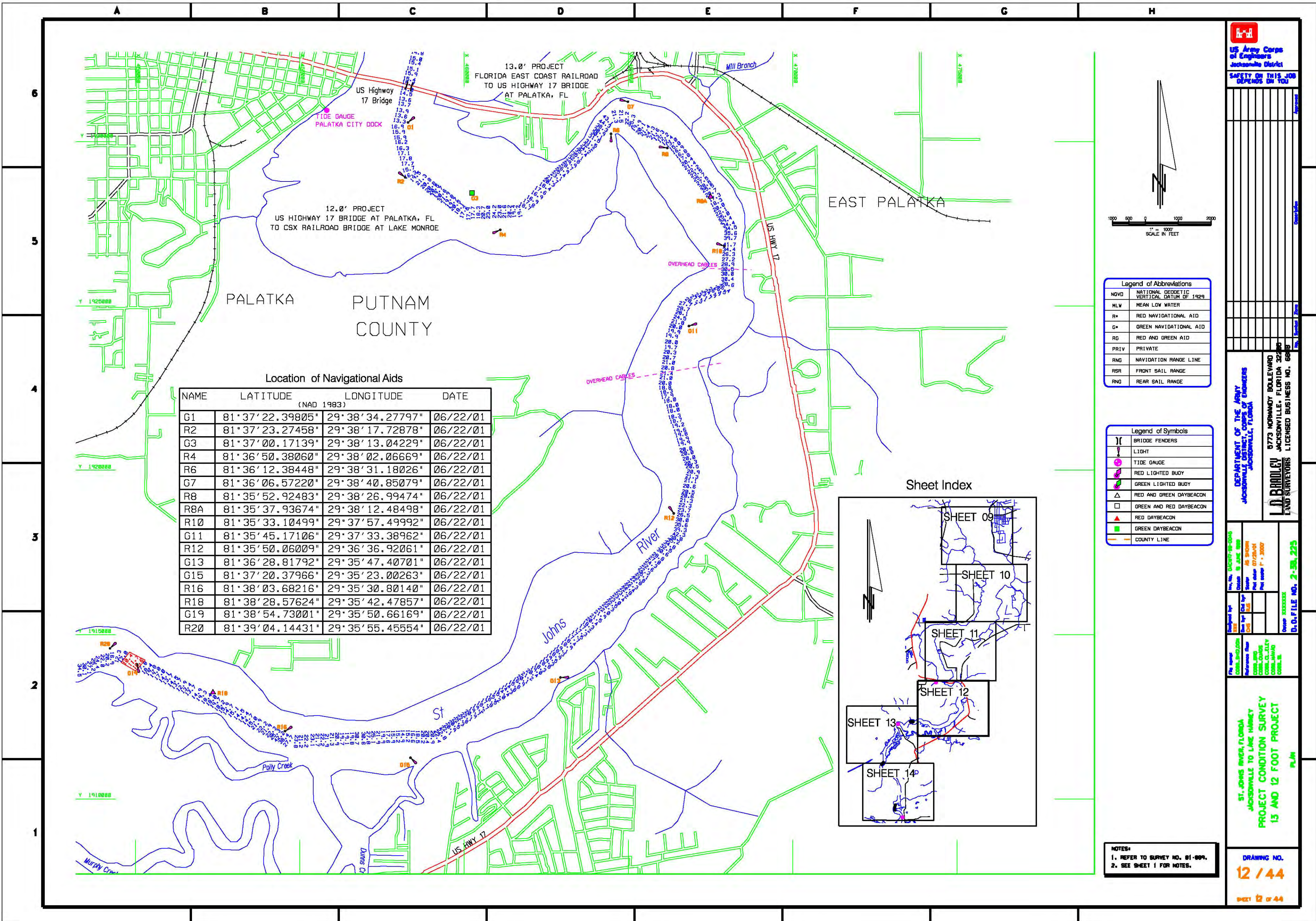
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA  
L.D. BARILEY  
LAND SURVEYORS LICENSED BUSINESS NO. 6888

Checked by: [Signature]  
Designed by: [Signature]  
Drawn by: [Signature]  
Scale: AS SHOWN  
Date: 07/28/01  
Per: [Signature]  
Project: 1-2007

Project Engineer: [Signature]  
D.O.F. FILE NO. 2-58-226

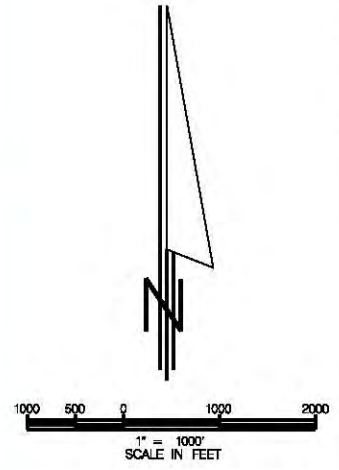
ST. JOHNS RIVER, FLORIDA  
JACKSONVILLE TO LAKE WILKEY  
PROJECT CONDITION SURVEY  
13 FOOT PROJECT  
P.L.M.

DRAWING NO.  
11 / 44  
SHEET 11 OF 44



Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
G1	81° 37' 22.39805"	29° 38' 34.27797"	06/22/01
R2	81° 37' 23.27458"	29° 38' 17.72878"	06/22/01
G3	81° 37' 00.17139"	29° 38' 13.04229"	06/22/01
R4	81° 36' 50.38060"	29° 38' 02.06669"	06/22/01
R6	81° 36' 12.38448"	29° 38' 31.18026"	06/22/01
G7	81° 36' 06.57220"	29° 38' 40.85079"	06/22/01
R8	81° 35' 52.92483"	29° 38' 26.99474"	06/22/01
R8A	81° 35' 37.93674"	29° 38' 12.48498"	06/22/01
R10	81° 35' 33.10499"	29° 37' 57.49992"	06/22/01
G11	81° 35' 45.17106"	29° 37' 33.38962"	06/22/01
R12	81° 35' 50.06009"	29° 36' 36.92061"	06/22/01
G13	81° 36' 28.81792"	29° 35' 47.40701"	06/22/01
G15	81° 37' 20.37966"	29° 35' 23.00263"	06/22/01
R16	81° 38' 03.68216"	29° 35' 30.80140"	06/22/01
R18	81° 38' 28.57624"	29° 35' 42.47857"	06/22/01
G19	81° 38' 54.73001"	29° 35' 50.66169"	06/22/01
R20	81° 39' 04.14431"	29° 35' 55.45554"	06/22/01



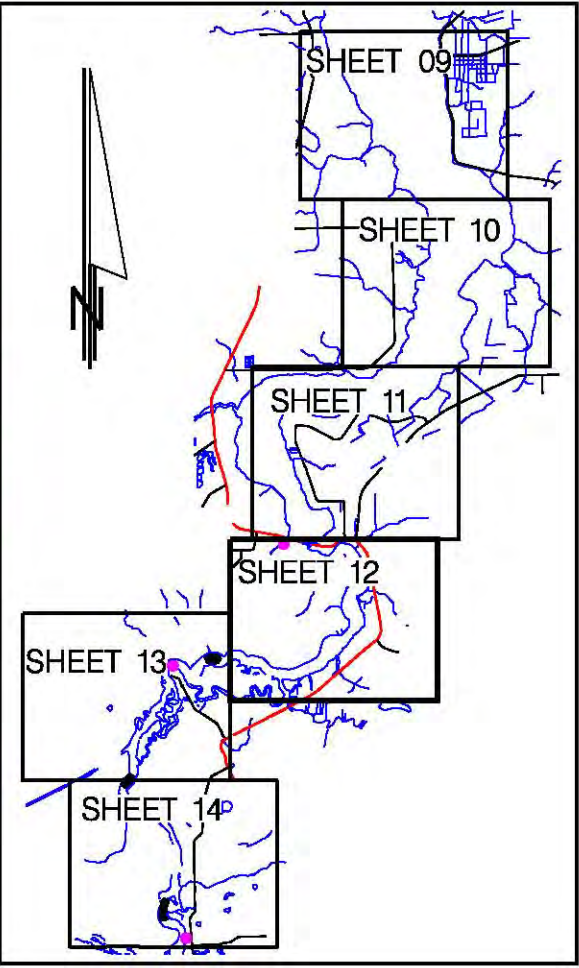
Legend of Abbreviations

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
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Legend of Symbols

[Symbol]	BRIDGE FENDERS
[Symbol]	LIGHT
[Symbol]	TIDE GAUGE
[Symbol]	RED LIGHTED BUOY
[Symbol]	GREEN LIGHTED BUOY
[Symbol]	RED AND GREEN DAYBEACON
[Symbol]	GREEN AND RED DAYBEACON
[Symbol]	RED DAYBEACON
[Symbol]	GREEN DAYBEACON
[Symbol]	COUNTY LINE

Sheet Index



NOTES:  
 1. REFER TO SURVEY NO. 01-009.  
 2. SEE SHEET 1 FOR NOTES.

**US Army Corps of Engineers**  
 Jacksonville District  
**SAFETY ON THIS JOB DEPENDS ON YOU!**

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

**L.D. BRADLEY**  
 6773 NORMANDY BOULEVARD  
 JACKSONVILLE, FLORIDA 32216  
 LAND SURVEYORS LICENSED BUSINESS NO. 6889

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PROJECT NO. 01-009  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 DATE: 07/20/01  
 SCALE: AS SHOWN  
 PROJECT NO. 01-009  
 DRAWING NO. 12/44  
 SHEET 12 OF 44

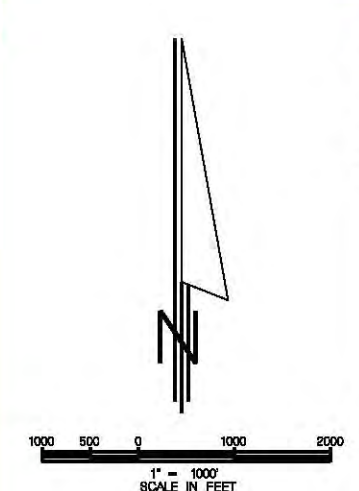
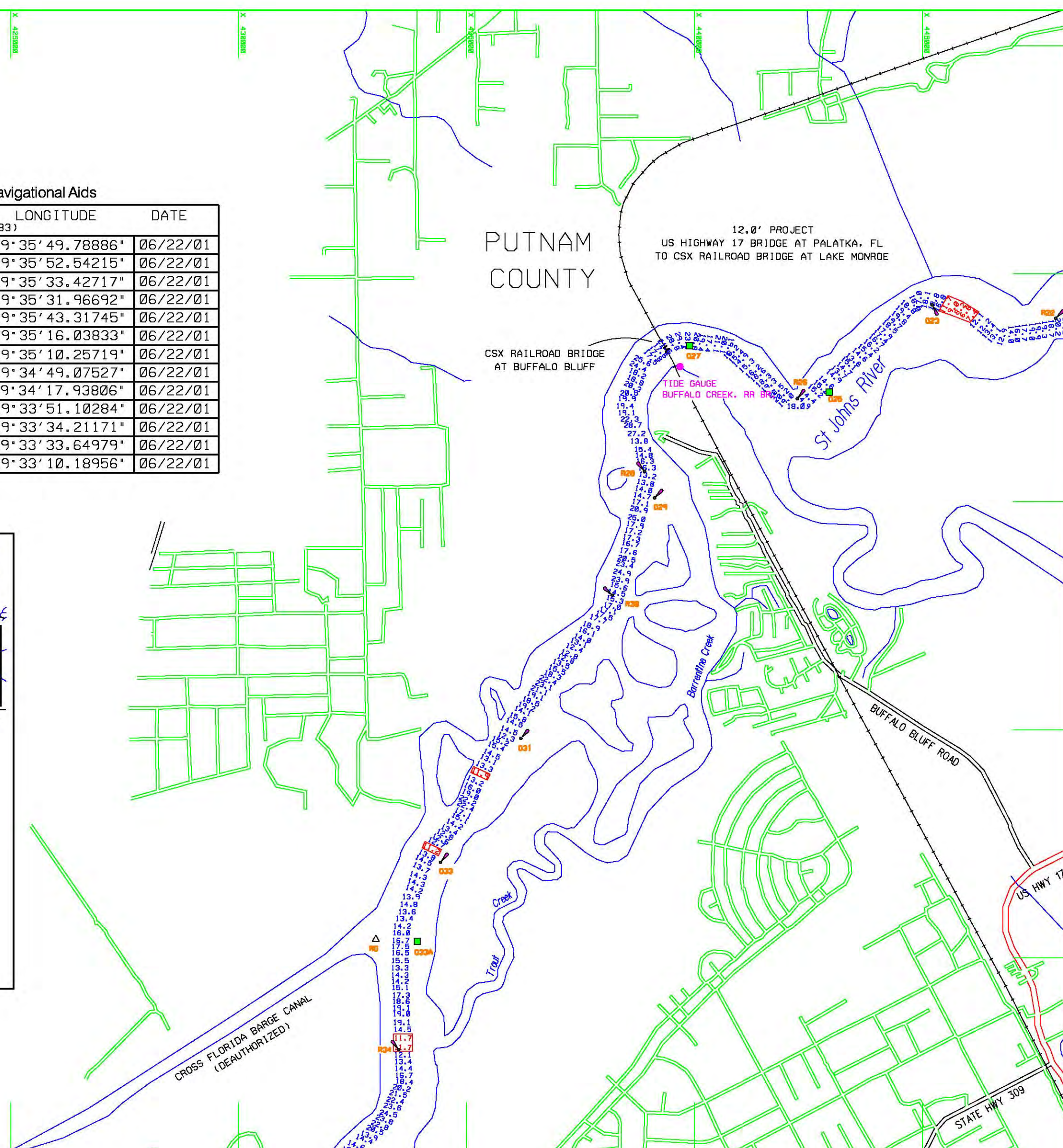
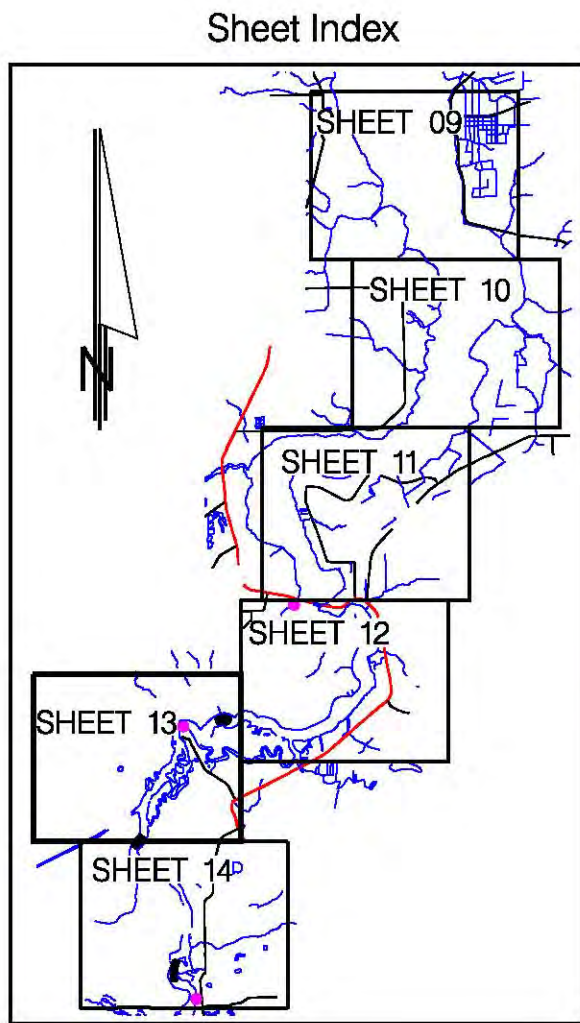
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**ST. JOHNS RIVER, FLORIDA**  
**JACKSONVILLE TO LAKE HAWKEY**  
**PROJECT CONDITION SURVEY**  
**13 AND 12 FOOT PROJECT**  
 PLAN

D.O.F. FILE NO. 2-28, 275

Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
R22	81° 39' 18.95769"	29° 35' 49.78886"	06/22/01
G23	81° 39' 49.66741"	29° 35' 52.54215"	06/22/01
G25	81° 40' 15.10416"	29° 35' 33.42717"	06/22/01
R26	81° 40' 23.04015"	29° 35' 31.96692"	06/22/01
G27	81° 40' 49.92018"	29° 35' 43.31745"	06/22/01
R28	81° 41' 00.90039"	29° 35' 16.03833"	06/22/01
G29	81° 40' 58.37629"	29° 35' 10.25719"	06/22/01
R30	81° 41' 08.73339"	29° 34' 49.07527"	06/22/01
G31	81° 41' 31.44604"	29° 34' 17.93806"	06/22/01
G33	81° 41' 51.01806"	29° 33' 51.10284"	06/22/01
RG	81° 42' 06.93682"	29° 33' 34.21171"	06/22/01
G33A	81° 41' 56.67388"	29° 33' 33.64979"	06/22/01
R34	81° 42' 01.11216"	29° 33' 10.18956"	06/22/01



Legend of Abbreviations

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Legend of Symbols

[Symbol]	BRIDGE FENDERS
[Symbol]	LIGHT
[Symbol]	TIDE GAUGE
[Symbol]	RED LIGHTED BUOY
[Symbol]	GREEN LIGHTED BUOY
[Symbol]	RED AND GREEN DAYBEACON
[Symbol]	GREEN AND RED DAYBEACON
[Symbol]	RED DAYBEACON
[Symbol]	GREEN DAYBEACON
[Symbol]	COUNTY LINE

NOTES:  
 1. REFER TO SURVEY NO. 01-009.  
 2. SEE SHEET 1 FOR NOTES.

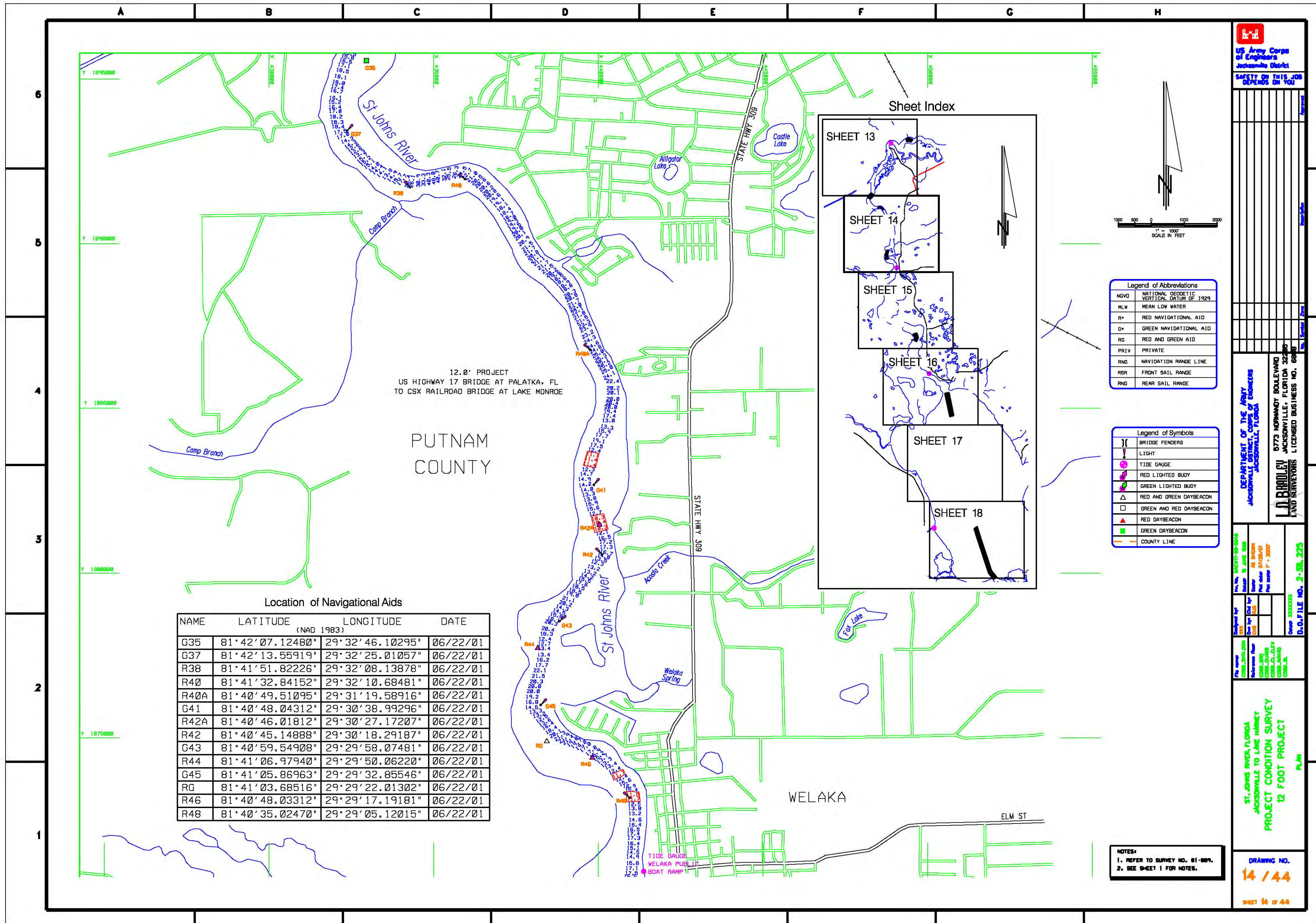
**US Army Corps of Engineers Jacksonville District**  
 SAFETY ON THIS JOB DEPENDS ON YOU

DEPARTMENT OF THE ARMY  
 JACKSONVILLE DISTRICT, Corps of Engineers  
 Jacksonville, Florida  
**L.D. BARILEY**  
 8773 NORMANDY BOULEVARD  
 JACKSONVILLE, FLORIDA 32209  
 LAND SURVEYORS LICENSED BUSINESS NO. 6888

Designed by: [Name]  
 Drawn by: [Name]  
 Checked by: [Name]  
 Date: 07/23/01  
 Project No: P-2007  
 D.O.F. FILE NO. 2-58-276

ST. JOHNS RIVER, FLORIDA  
 JACKSONVILLE TO LAKE HAWKEYE  
 PROJECT CONDITION SURVEY  
 12 FOOT PROJECT  
 PLN

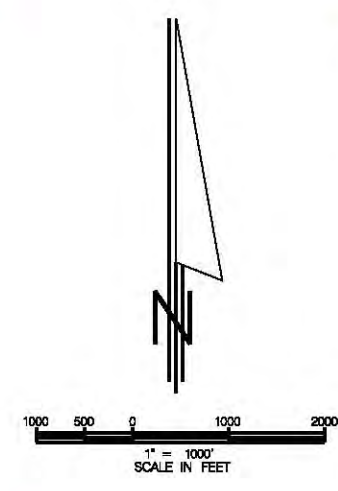
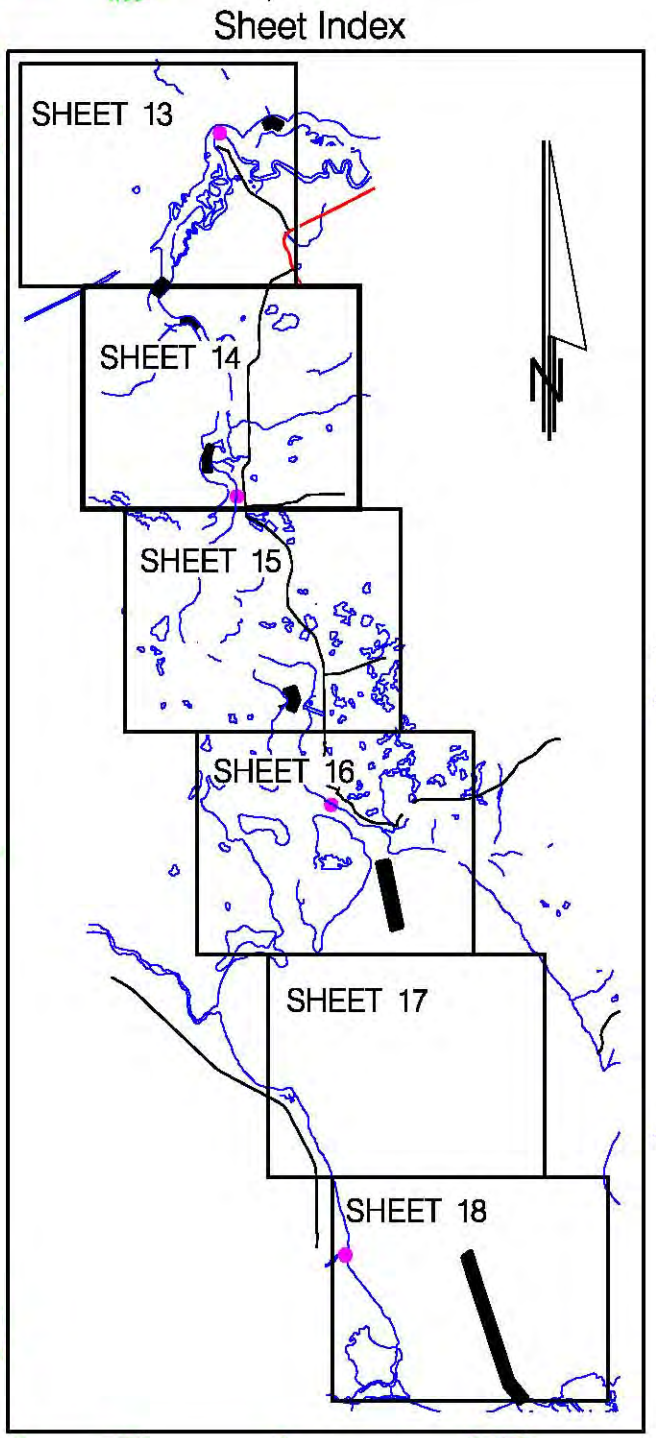
DRAWING NO.  
**13 / 44**  
 SHEET 13 OF 44



12.0' PROJECT  
US HIGHWAY 17 BRIDGE AT PALATKA, FL  
TO CSX RAILROAD BRIDGE AT LAKE MONROE

PUTNAM  
COUNTY

WELAKA



Legend of Abbreviations	
NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
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Legend of Symbols	
	BRIDGE FENDERS
	LIGHT
	TIDE GAUGE
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	RED AND GREEN DAYBEACON
	GREEN AND RED DAYBEACON
	RED DAYBEACON
	GREEN DAYBEACON
	COUNTY LINE

Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
G35	81° 42' 07.12480"	29° 32' 46.10295"	06/22/01
G37	81° 42' 13.55919"	29° 32' 25.01057"	06/22/01
R38	81° 41' 51.82226"	29° 32' 08.13878"	06/22/01
R40	81° 41' 32.84152"	29° 32' 10.68481"	06/22/01
R40A	81° 40' 49.51095"	29° 31' 19.58916"	06/22/01
G41	81° 40' 48.04312"	29° 30' 38.99296"	06/22/01
R42A	81° 40' 46.01812"	29° 30' 27.17207"	06/22/01
R42	81° 40' 45.14888"	29° 30' 18.29187"	06/22/01
G43	81° 40' 59.54908"	29° 29' 58.07481"	06/22/01
R44	81° 41' 06.97940"	29° 29' 50.06220"	06/22/01
G45	81° 41' 05.86963"	29° 29' 32.85546"	06/22/01
RG	81° 41' 03.68516"	29° 29' 22.01302"	06/22/01
R46	81° 40' 48.03312"	29° 29' 17.19181"	06/22/01
R48	81° 40' 35.02470"	29° 29' 05.12015"	06/22/01

NOTES:  
1. REFER TO SURVEY NO. 01-009.  
2. SEE SHEET 1 FOR NOTES.

**US Army Corps of Engineers**  
Jacksonville District  
SAFETY ON THIS JOB DEPENDS ON YOU

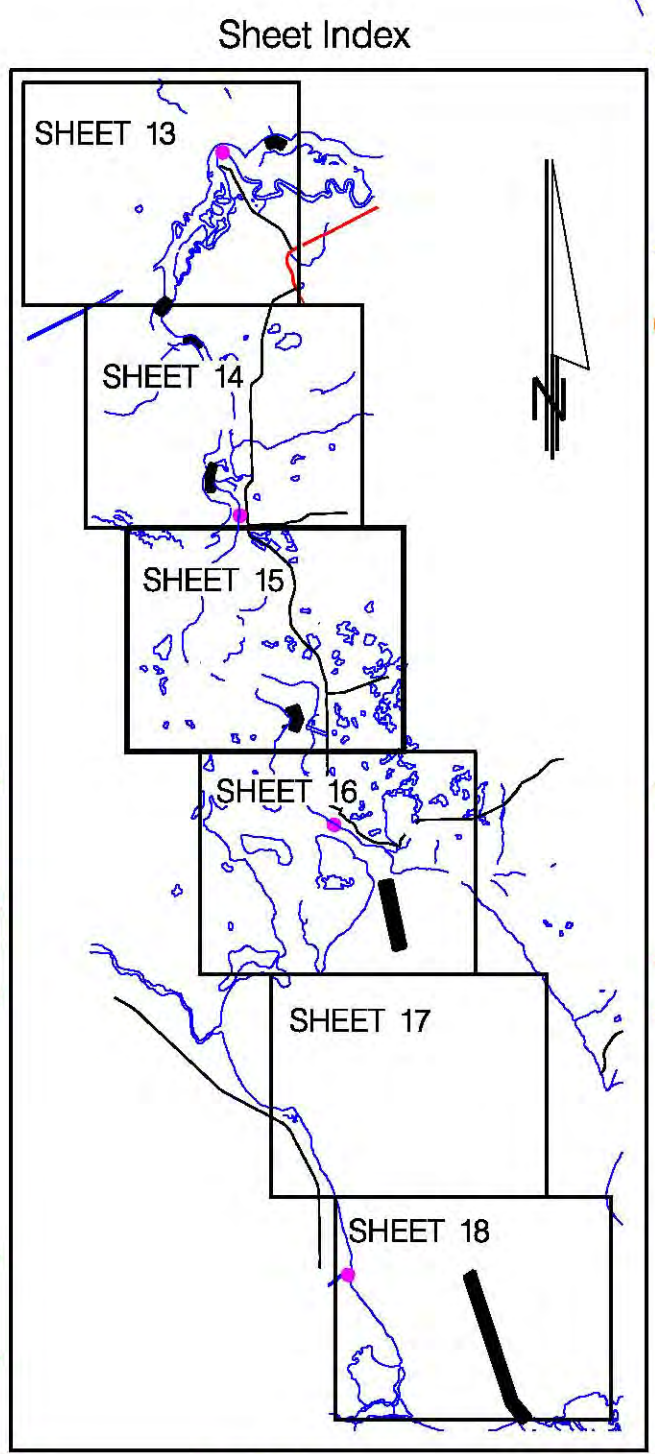
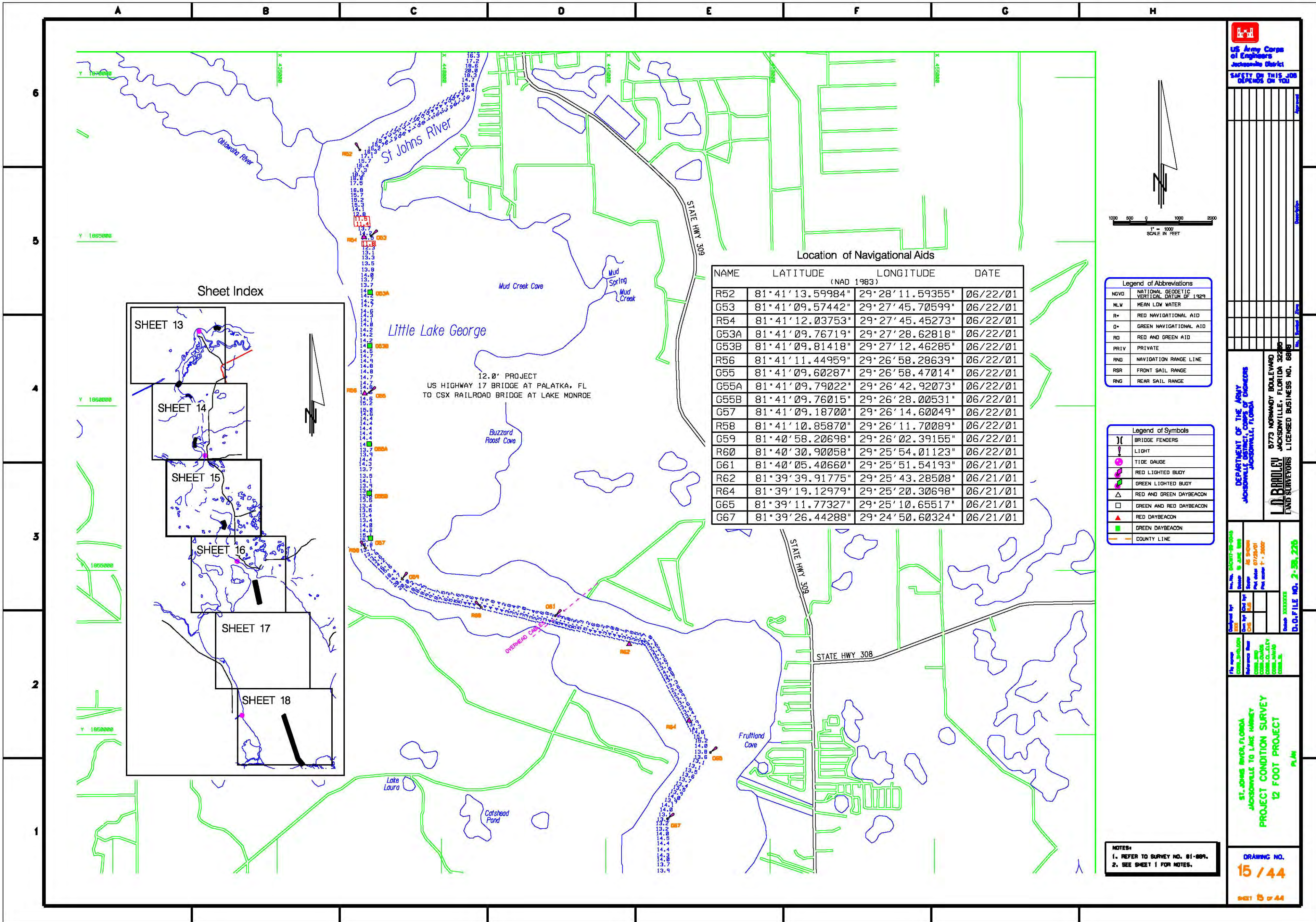
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT  
JACKSONVILLE, FLORIDA

6773 NORMANDY BOULEVARD  
JACKSONVILLE, FLORIDA 32209  
LIND SURVEYORS LICENSED BUSINESS NO. 6885

PROJECT NO. 01-009  
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SCALE: AS SHOWN  
PER DATE: 07/20/01  
PER DATE: 7-2007

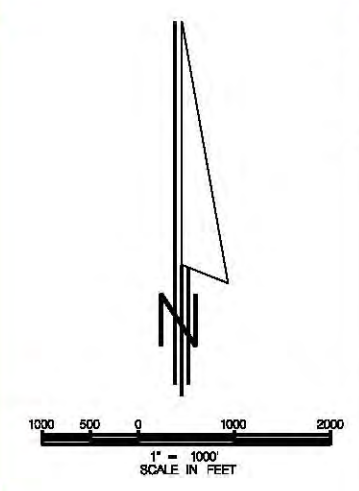
ST. JOHNS RIVER, FLORIDA  
JACKSONVILLE TO LAKE MONROE  
PROJECT CONDITION SURVEY  
12 FOOT PROJECT  
PLAN

DRAWING NO.  
**14 / 44**  
SHEET 14 OF 44



Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
R52	81° 41' 13.59984"	29° 28' 11.59355"	06/22/01
G53	81° 41' 09.57442"	29° 27' 45.70599"	06/22/01
R54	81° 41' 12.03753"	29° 27' 45.45273"	06/22/01
G53A	81° 41' 09.76719"	29° 27' 28.62818"	06/22/01
G53B	81° 41' 09.81418"	29° 27' 12.46285"	06/22/01
R56	81° 41' 11.44959"	29° 26' 58.28639"	06/22/01
G55	81° 41' 09.60287"	29° 26' 58.47014"	06/22/01
G55A	81° 41' 09.79022"	29° 26' 42.92073"	06/22/01
G55B	81° 41' 09.76015"	29° 26' 28.00531"	06/22/01
G57	81° 41' 09.18700"	29° 26' 14.60049"	06/22/01
R58	81° 41' 10.85870"	29° 26' 11.70089"	06/22/01
G59	81° 40' 58.20698"	29° 26' 02.39155"	06/22/01
R60	81° 40' 30.90058"	29° 25' 54.01123"	06/22/01
G61	81° 40' 05.40660"	29° 25' 51.54193"	06/21/01
R62	81° 39' 39.91775"	29° 25' 43.28508"	06/21/01
R64	81° 39' 19.12979"	29° 25' 20.30698"	06/21/01
G65	81° 39' 11.77327"	29° 25' 10.65517"	06/21/01
G67	81° 39' 26.44288"	29° 24' 50.60324"	06/21/01



Legend of Abbreviations

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Legend of Symbols

( )	BRIDGE FENDERS
( )	LIGHT
( )	TIDE GAUGE
( )	RED LIGHTED BUOY
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( )	GREEN DAYBEACON
( )	COUNTY LINE

NOTES:  
 1. REFER TO SURVEY NO. 01-004.  
 2. SEE SHEET 1 FOR NOTES.

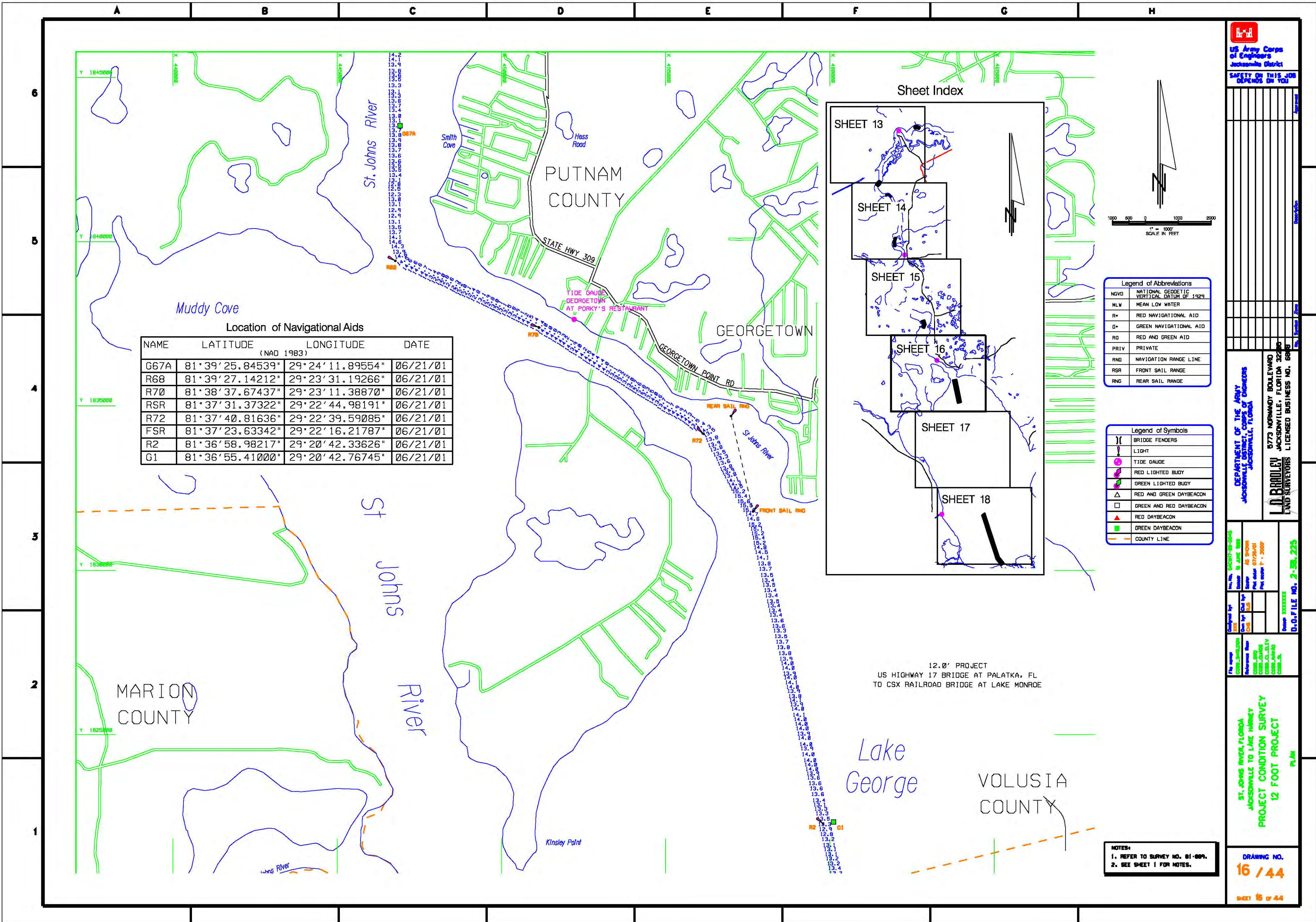
**US Army Corps of Engineers**  
 Jacksonville District  
 SAFETY ON THIS JOB DEPENDS ON YOU!

DEPARTMENT OF THE ARMY  
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
 JACKSONVILLE, FLORIDA  
**L.D. BARILEY**  
 LAND SURVEYORS LICENSED BUSINESS NO. 6888

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 Date: 07/23/01  
 Drawn by: [Signature]  
 Date: 07/23/01  
 Project: 01-004  
 Sheet: 5 of 44  
 D.O.F. FILE NO. 2-58-226

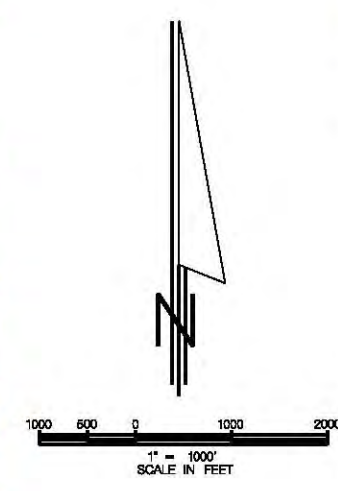
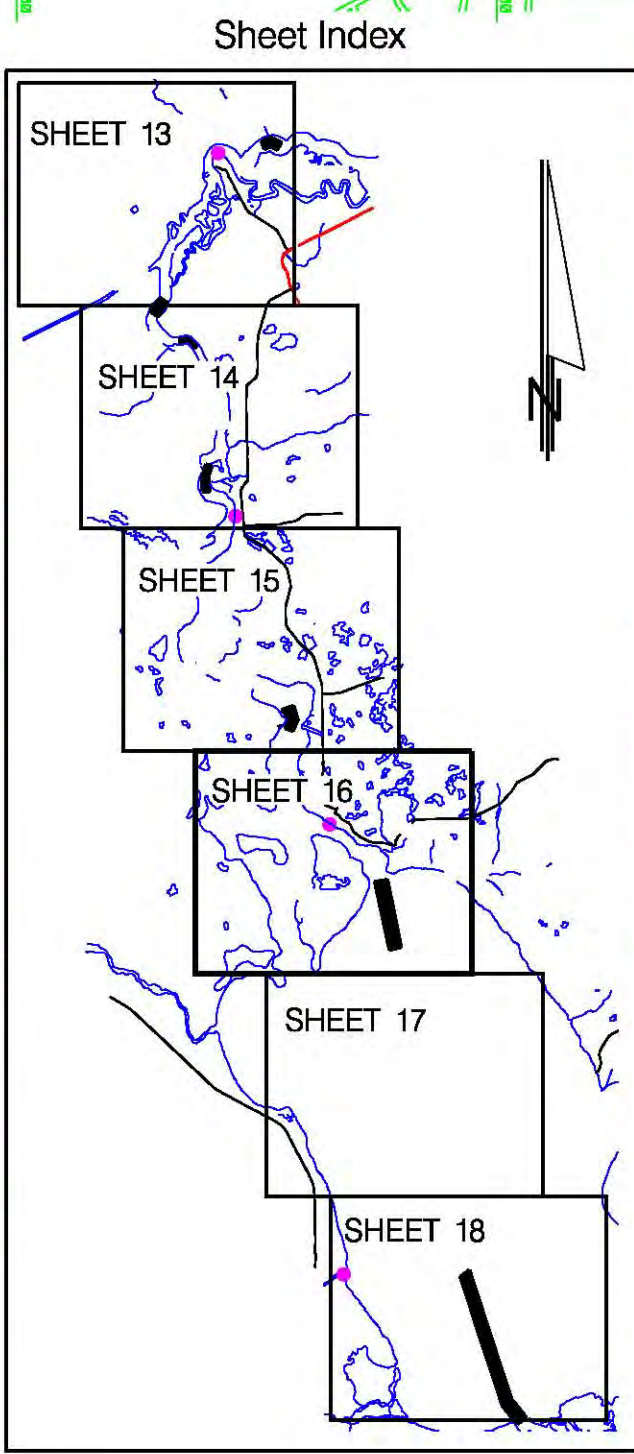
ST. JOHNS RIVER, FLORIDA  
 JACKSONVILLE TO LAKE MONROE  
 PROJECT CONDITION SURVEY  
 12 FOOT PROJECT  
 PLAN

DRAWING NO.  
**15 / 44**  
 SHEET 5 of 44



**Location of Navigational Aids**

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
G67A	81°39'25.84539"	29°24'11.89554"	06/21/01
R68	81°39'27.14212"	29°23'31.19266"	06/21/01
R70	81°38'37.67437"	29°23'11.38870"	06/21/01
RSR	81°37'31.37322"	29°22'44.98191"	06/21/01
R72	81°37'40.81636"	29°22'39.59085"	06/21/01
FSR	81°37'23.63342"	29°22'16.21787"	06/21/01
R2	81°36'58.98217"	29°20'42.33626"	06/21/01
G1	81°36'55.41000"	29°20'42.76745"	06/21/01



**Legend of Abbreviations**

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
NLW	MEAN LOW WATER
R+	RED NAVIGATIONAL AID
G+	GREEN NAVIGATIONAL AID
RD	RED AND GREEN AID
PRIV	PRIVATE
RND	NAVIGATION RANGE LINE
RSR	FRONT SAIL RANGE
RNG	REAR SAIL RANGE

**Legend of Symbols**

	BRIDGE FENDERS
	LIGHT
	TIDE GAUGE
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	RED AND GREEN DAYBEACON
	GREEN AND RED DAYBEACON
	RED DAYBEACON
	GREEN DAYBEACON
	COUNTY LINE

12.0' PROJECT  
US HIGHWAY 17 BRIDGE AT PALATKA, FL  
TO CSX RAILROAD BRIDGE AT LAKE MONROE

**NOTES:**  
1. REFER TO SURVEY NO. 01-009.  
2. SEE SHEET 1 FOR NOTES.

**US Army Corps of Engineers**  
Jacksonville District  
**SAFETY ON THIS JOB DEPENDS ON YOU!**

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

**L.D. BRADLEY**  
8773 NORMANDY BOULEVARD  
JACKSONVILLE, FLORIDA 32209  
LAND SURVEYORS LICENSED BUSINESS NO. 6898

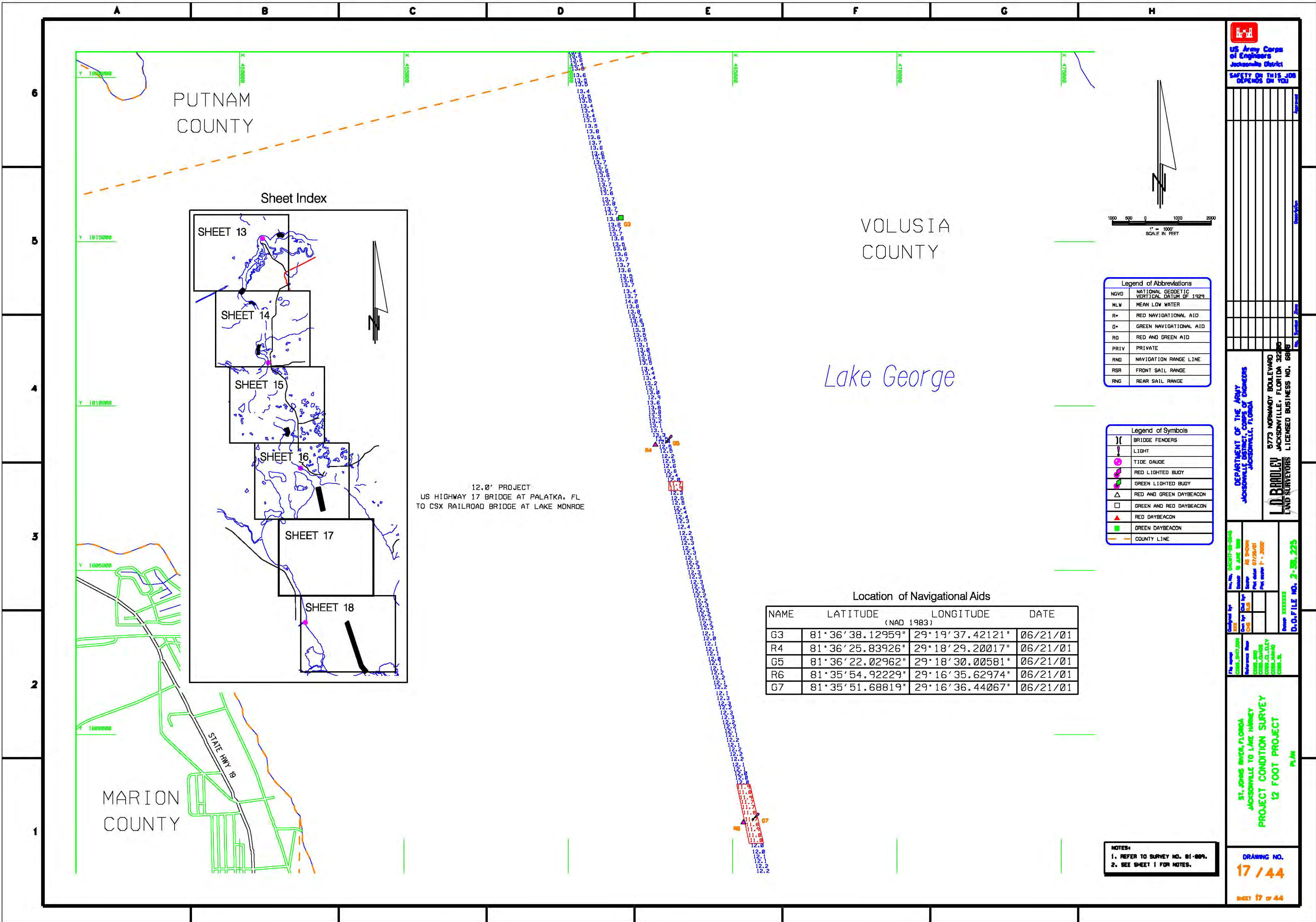
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**ST. JOHNS RIVER, FLORIDA**  
JACKSONVILLE TO LAKE MONROE  
PROJECT CONDITION SURVEY  
12 FOOT PROJECT  
PLAN

**DRAWING NO.**  
**16 / 44**

SHEET 16 OF 44





PUTNAM COUNTY

VOLUSIA COUNTY

Lake George

Sheet Index

SHEET 13

SHEET 14

SHEET 15

SHEET 16

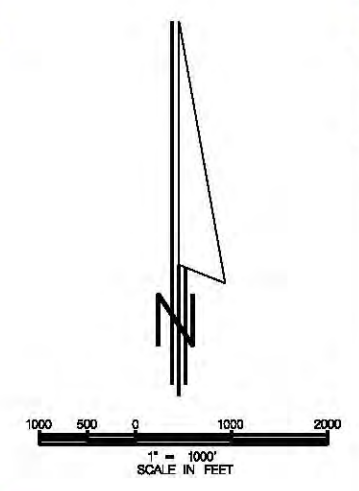
SHEET 17

SHEET 18

12.0' PROJECT  
US HIGHWAY 17 BRIDGE AT PALATKA, FL  
TO CSX RAILROAD BRIDGE AT LAKE MONROE

Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE (NAD 1983)	DATE
G3	81°36'38.12959"	29°19'37.42121"	06/21/01
R4	81°36'25.83926"	29°18'29.20017"	06/21/01
G5	81°36'22.02962"	29°18'30.00581"	06/21/01
R6	81°35'54.92229"	29°16'35.62974"	06/21/01
G7	81°35'51.68819"	29°16'36.44067"	06/21/01



Legend of Abbreviations

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
NLW	MEAN LOW WATER
R+	RED NAVIGATIONAL AID
G+	GREEN NAVIGATIONAL AID
RG	RED AND GREEN AID
PRIV	PRIVATE
RNG	NAVIGATION RANGE LINE
RSR	FRONT SAIL RANGE
RND	REAR SAIL RANGE

Legend of Symbols

( )	BRIDGE FENDERS
( )	LIGHT
( )	TIDE GAUGE
( )	RED LIGHTED BODY
( )	GREEN LIGHTED BODY
( )	RED AND GREEN DAYBEACON
( )	GREEN AND RED DAYBEACON
( )	RED DAYBEACON
( )	GREEN DAYBEACON
( )	COUNTY LINE

NOTES:  
1. REFER TO SURVEY NO. 01-009.  
2. SEE SHEET 1 FOR NOTES.

US Army Corps of Engineers  
Jacksonville District  
SAFETY ON THIS JOB DEPENDS ON YOU

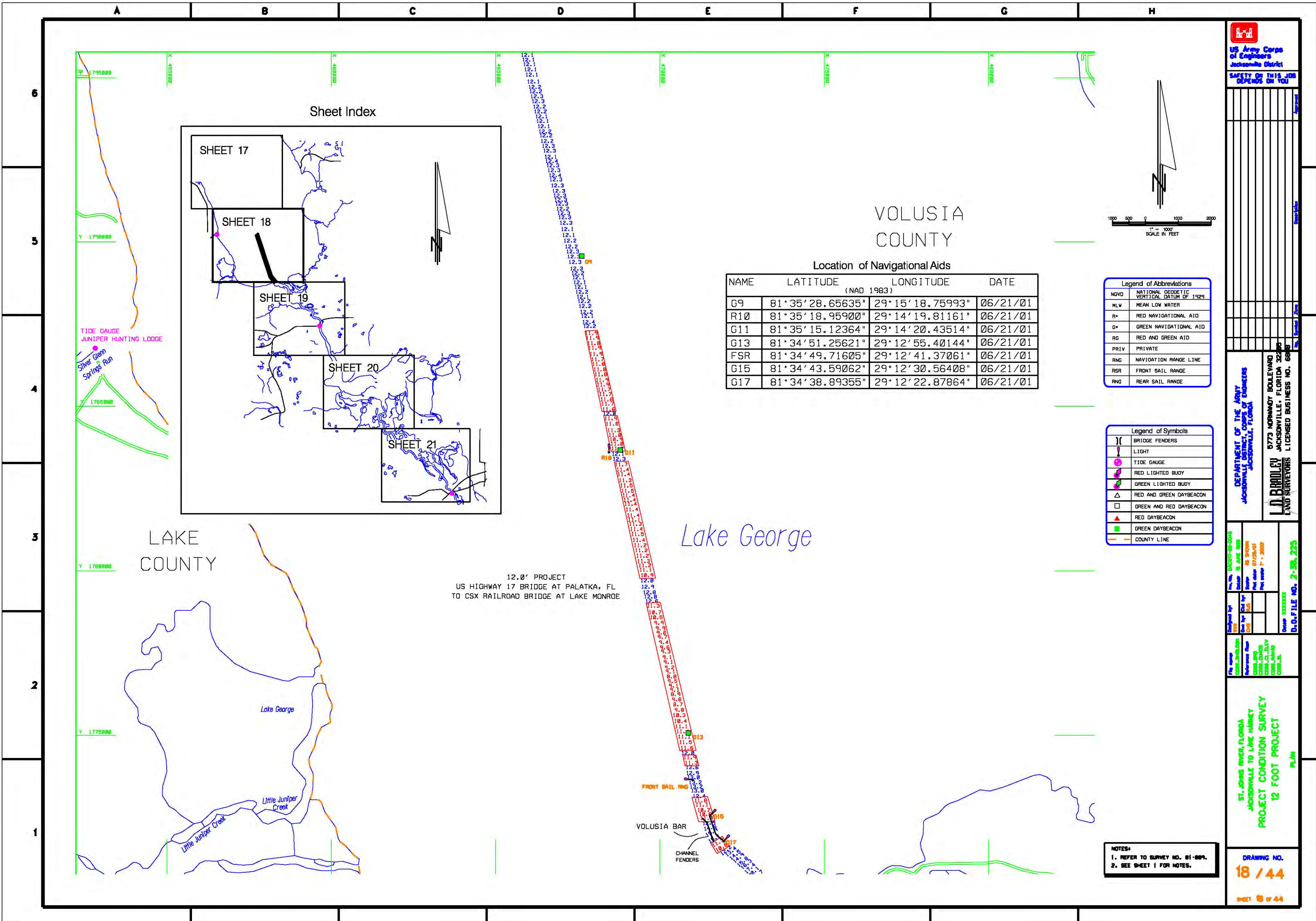
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, Corps of Engineers  
Jacksonville, Florida  
L.D. BRADLEY  
LAND SURVEYORS LICENSED BUSINESS NO. 8888

Project No. 01-009  
Contract No. 01-009  
Drawing No. 17/44  
Scale 1" = 2000'  
Date 07/20/01  
Project 1 - 2000'

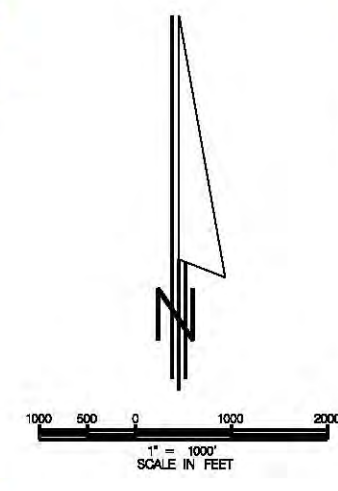
ST. JAMES BRIDGE, FLORIDA  
JACKSONVILLE TO LAKE MONROE  
PROJECT CONDITION SURVEY  
12 FOOT PROJECT  
PLAN

DRAWING NO.  
17 / 44

SHEET 17 of 44



  
 US Army Corps of Engineers  
 Jacksonville District  
 SAFETY ON THIS JOB DEPENDS ON YOU



## VOLUSIA COUNTY

Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
G9	81°35'28.65635"	29°15'18.75993"	06/21/01
R10	81°35'18.95900"	29°14'19.81161"	06/21/01
G11	81°35'15.12364"	29°14'20.43514"	06/21/01
G13	81°34'51.25621"	29°12'55.40144"	06/21/01
FSR	81°34'49.71605"	29°12'41.37061"	06/21/01
G15	81°34'43.59062"	29°12'30.56408"	06/21/01
G17	81°34'38.89355"	29°12'22.87864"	06/21/01

Legend of Abbreviations	
NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
MLW	MEAN LOW WATER
R*	RED NAVIGATIONAL AID
G*	GREEN NAVIGATIONAL AID
RG	RED AND GREEN AID
PRIV	PRIVATE
RNG	NAVIGATION RANGE LINE
FSR	FRONT SAIL RANGE
RNG	REAR SAIL RANGE

Legend of Symbols	
	BRIDGE FENDERS
	LIGHT
	TIDE GAUGE
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	RED AND GREEN DAYBEACON
	GREEN AND RED DAYBEACON
	RED DAYBEACON
	GREEN DAYBEACON
	COUNTY LINE

12.0' PROJECT  
 US HIGHWAY 17 BRIDGE AT PALATKA, FL  
 TO CSX RAILROAD BRIDGE AT LAKE MONROE

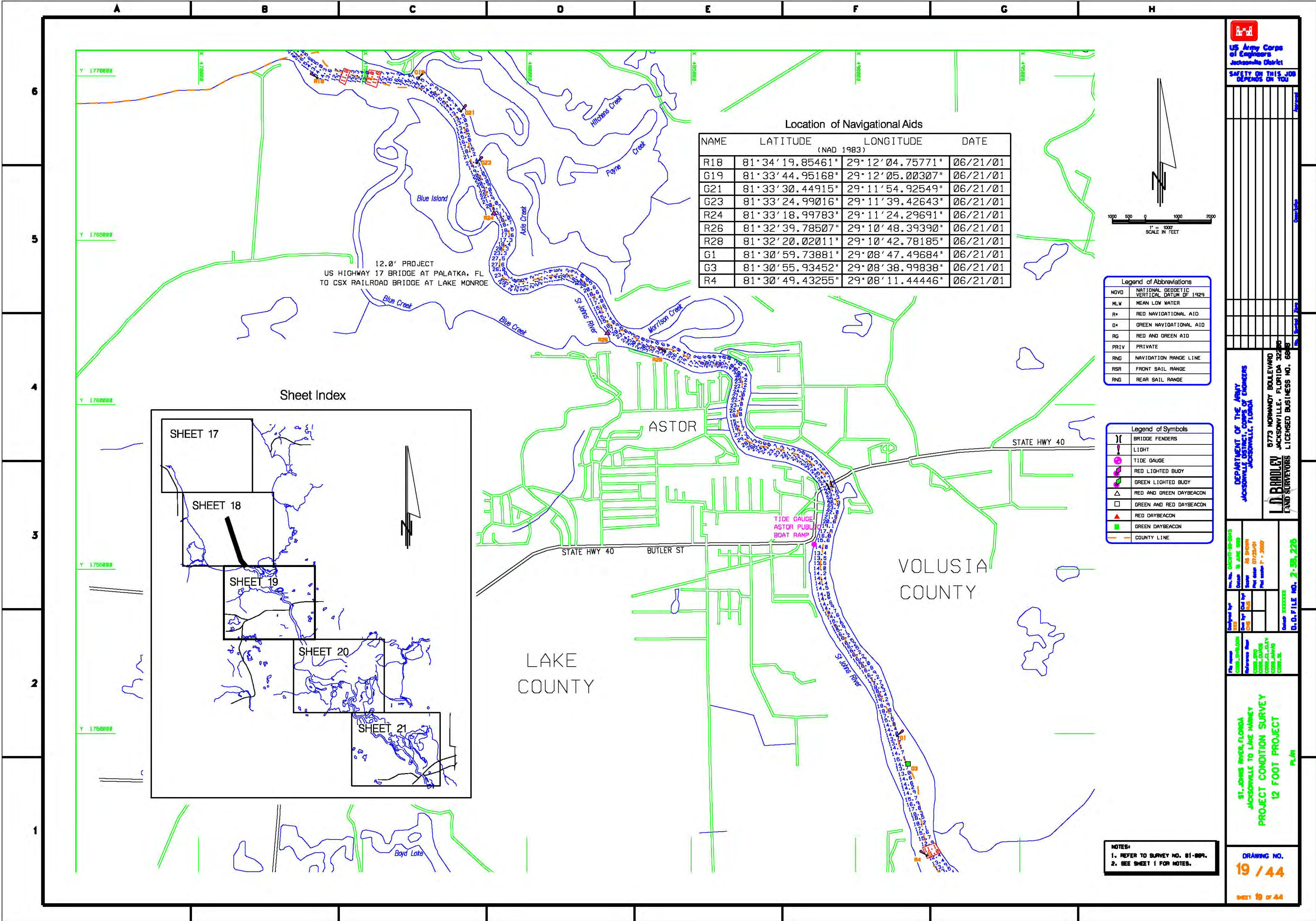
NOTES:  
 1. REFER TO SURVEY NO. 01-009.  
 2. SEE SHEET 1 FOR NOTES.

DEPARTMENT OF THE ARMY  
 JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
 JACKSONVILLE, FLORIDA  
 L.D. BRADLEY  
 LAND SURVEYORS LICENSED BUSINESS NO. 6688

PROJECT NO. 01-009  
 DATE 06/21/01  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 D.O.F. FILE NO. 2-25-225

ST. JAMES RIVER, FLORIDA  
 JACKSONVILLE TO LAKE HAWLEY  
 PROJECT CONDITION SURVEY  
 12 FOOT PROJECT  
 PLAN

DRAWING NO.  
**18 / 44**  
 SHEET 18 OF 44



**Location of Navigational Aids**

NAME	LATITUDE (NAD 1983)	LONGITUDE (NAD 1983)	DATE
R18	81°34'19.85461"	29°12'04.75771"	06/21/01
G19	81°33'44.95168"	29°12'05.00307"	06/21/01
G21	81°33'30.44915"	29°11'54.92549"	06/21/01
G23	81°33'24.99016"	29°11'39.42643"	06/21/01
R24	81°33'18.99783"	29°11'24.29691"	06/21/01
R26	81°32'39.78507"	29°10'48.39390"	06/21/01
R28	81°32'20.02011"	29°10'42.78185"	06/21/01
G1	81°30'59.73881"	29°08'47.49684"	06/21/01
G3	81°30'55.93452"	29°08'38.99838"	06/21/01
R4	81°30'49.43255"	29°08'11.44446"	06/21/01

**Legend of Abbreviations**

NOVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
MLW	MEAN LOW WATER
R+	RED NAVIGATIONAL AID
G+	GREEN NAVIGATIONAL AID
RG	RED AND GREEN AID
PRIV	PRIVATE
RNG	NAVIGATION RANGE LINE
RSR	FRONT SAIL RANGE
RNG	REAR SAIL RANGE

**Legend of Symbols**

(I)	BRIDGE FENDERS
(L)	LIGHT
(T)	TIDE GAUGE
(R)	RED LIGHTED BUOY
(G)	GREEN LIGHTED BUOY
(R)	RED AND GREEN DAYBEACON
(R)	GREEN AND RED DAYBEACON
(R)	RED DAYBEACON
(G)	GREEN DAYBEACON
(-)	COUNTY LINE

**US Army Corps of Engineers**  
Jacksonville District  
**SAFETY ON THIS JOB DEPENDS ON YOU**

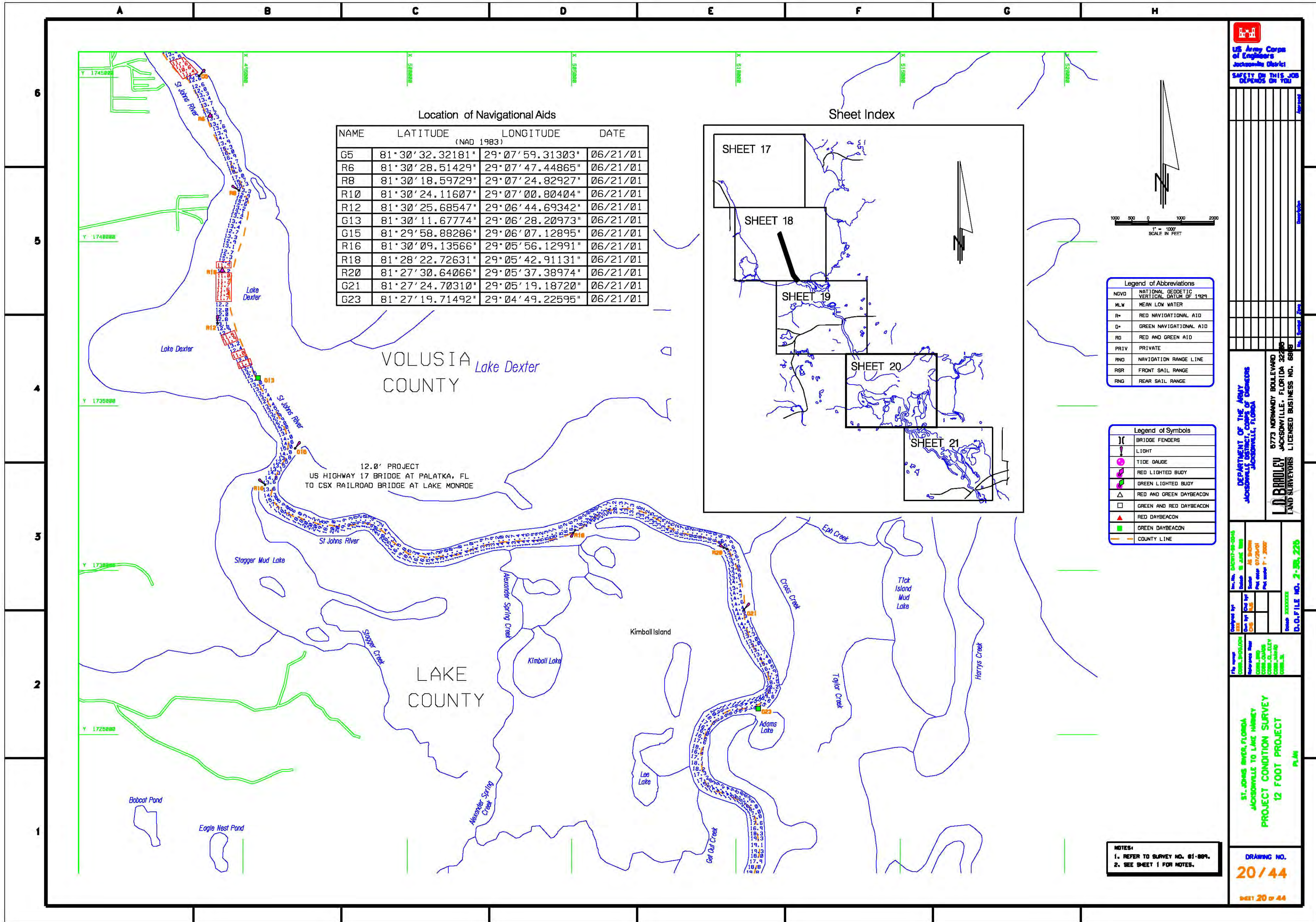
**DEPARTMENT OF THE ARMY**  
Jacksonville District, Corps of Engineers  
**J.D. BRADLEY**  
0773 NORMANDY BOULEVARD  
JACKSONVILLE, FLORIDA 32216  
LAND SURVEYORS LICENSED BUSINESS NO. 6688

Designed by: **DAVID B. BROWN**  
Checked by: **AL BROWN**  
Drawn by: **DAVID B. BROWN**  
Scale: **AS SHOWN**  
Date: **07/25/05**  
Project: **ST. JOHNS RIVER, FLORIDA**  
Project: **JACKSONVILLE TO LAKE HAWKEYE**  
Project: **PROJECT CONDITION SURVEY**  
Project: **12 FOOT PROJECT**  
PLM

**ST. JOHNS RIVER, FLORIDA**  
**JACKSONVILLE TO LAKE HAWKEYE**  
**PROJECT CONDITION SURVEY**  
**12 FOOT PROJECT**  
PLM

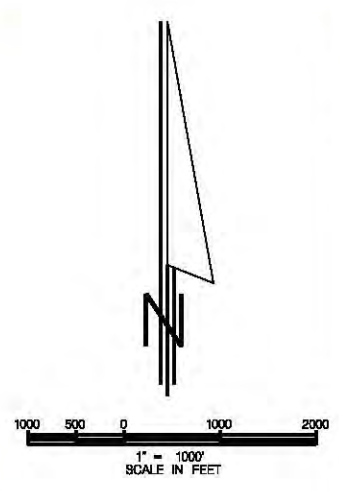
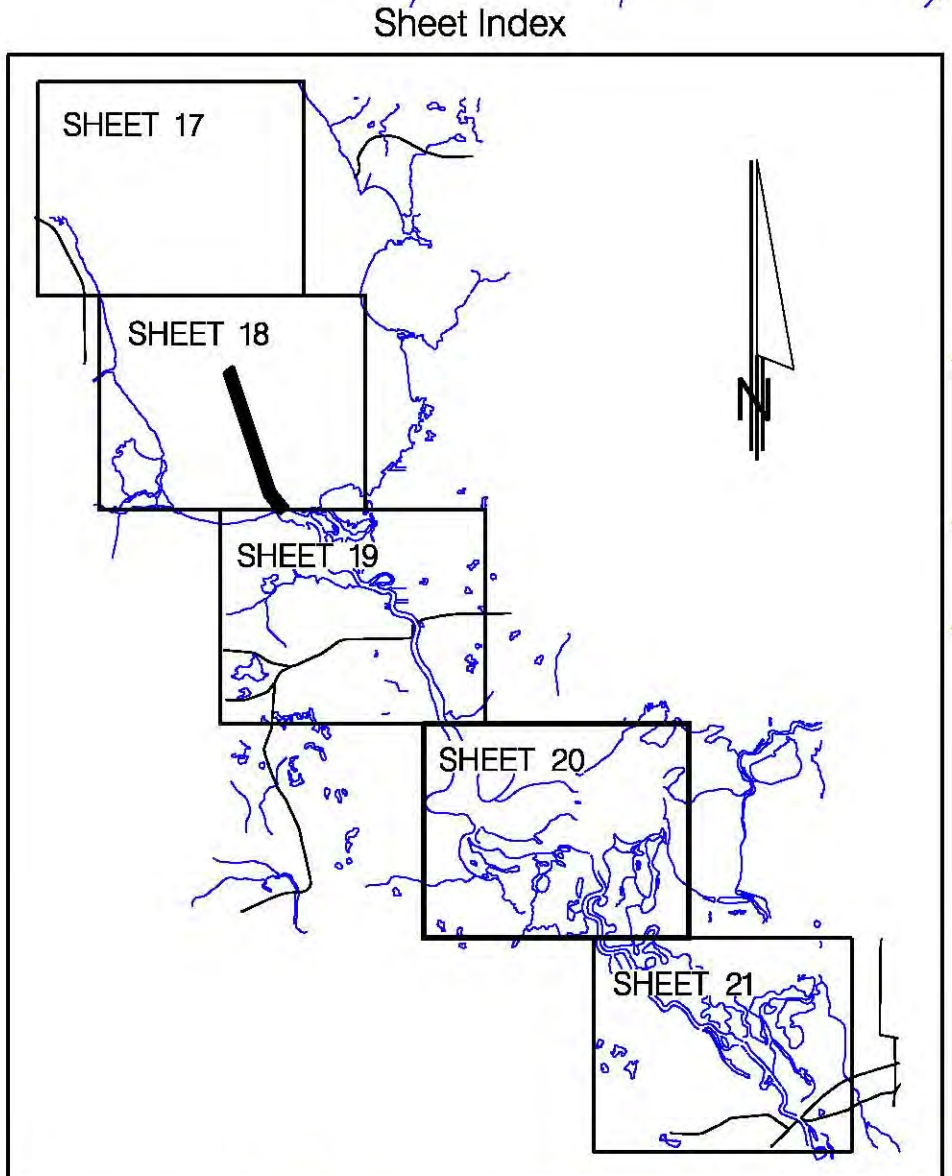
**NOTES:**  
1. REFER TO SURVEY NO. 81-809.  
2. SEE SHEET 1 FOR NOTES.

**DRAWING NO.**  
**19 / 44**  
**SHEET 19 OF 44**



Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
G5	81°30'32.32181"	29°07'59.31303"	06/21/01
R6	81°30'28.51429"	29°07'47.44865"	06/21/01
R8	81°30'18.59729"	29°07'24.82927"	06/21/01
R10	81°30'24.11607"	29°07'00.80404"	06/21/01
R12	81°30'25.68547"	29°06'44.69342"	06/21/01
G13	81°30'11.67774"	29°06'28.20973"	06/21/01
G15	81°29'58.88286"	29°06'07.12895"	06/21/01
R16	81°30'09.13566"	29°05'56.12991"	06/21/01
R18	81°28'22.72631"	29°05'42.91131"	06/21/01
R20	81°27'30.64066"	29°05'37.38974"	06/21/01
G21	81°27'24.70310"	29°05'19.18720"	06/21/01
G23	81°27'19.71492"	29°04'49.22595"	06/21/01



Legend of Abbreviations

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
MLW	MEAN LOW WATER
R+	RED NAVIGATIONAL AID
G+	GREEN NAVIGATIONAL AID
RG	RED AND GREEN AID
PRIV	PRIVATE
RND	NAVIGATION RANGE LINE
RSR	FRONT SAIL RANGE
RNG	REAR SAIL RANGE

Legend of Symbols

[Symbol]	BRIDGE FENDERS
[Symbol]	LIGHT
[Symbol]	TIDE GAUGE
[Symbol]	RED LIGHTED BODY
[Symbol]	GREEN LIGHTED BODY
[Symbol]	RED AND GREEN DAYBEACON
[Symbol]	GREEN AND RED DAYBEACON
[Symbol]	RED DAYBEACON
[Symbol]	GREEN DAYBEACON
[Symbol]	COUNTY LINE

**US Army Corps of Engineers**  
Jacksonville District

**SAFETY ON THIS JOB DEPENDS ON YOU**

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

**L. D. BRADLEY**  
LAND SURVEYORS LICENSED BUSINESS NO. 6681

8773 NORMANDY BOULEVARD  
JACKSONVILLE, FLORIDA 32206

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ST. JOHNS RIVER, FLORIDA  
JACKSONVILLE TO LAKE HAWKEYE  
PROJECT CONDITION SURVEY  
12 FOOT PROJECT  
PLAN

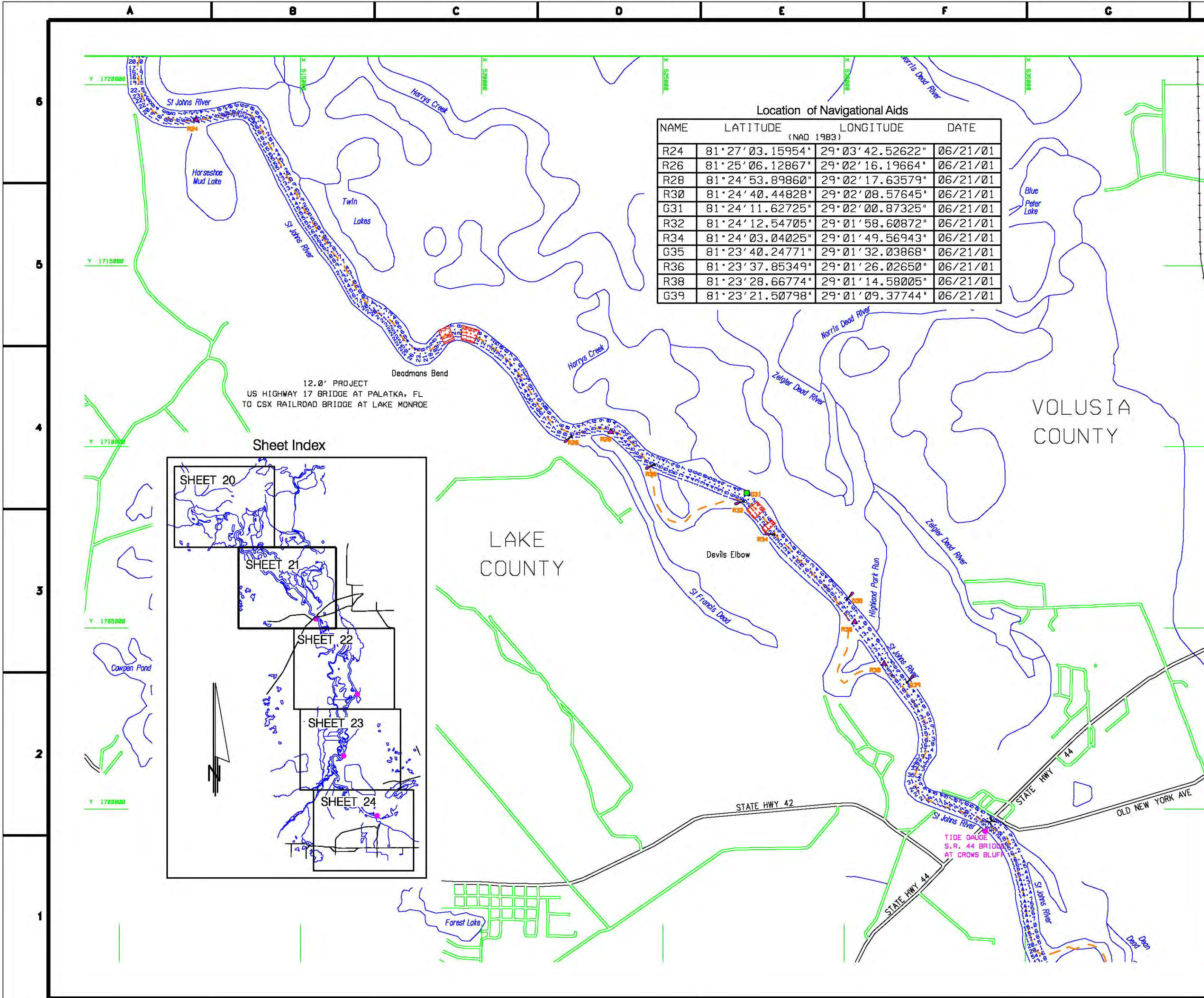
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NOTES:  
1. REFER TO SURVEY NO. 01-004.  
2. SEE SHEET 1 FOR NOTES.

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DRAWING NO.  
**20/44**

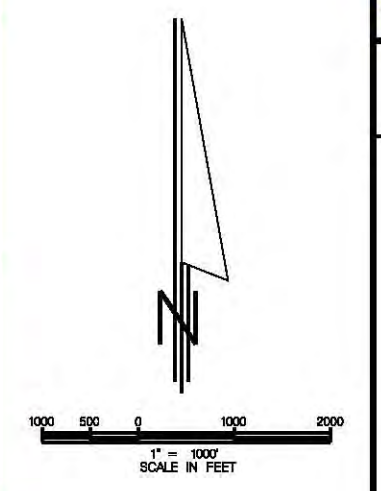
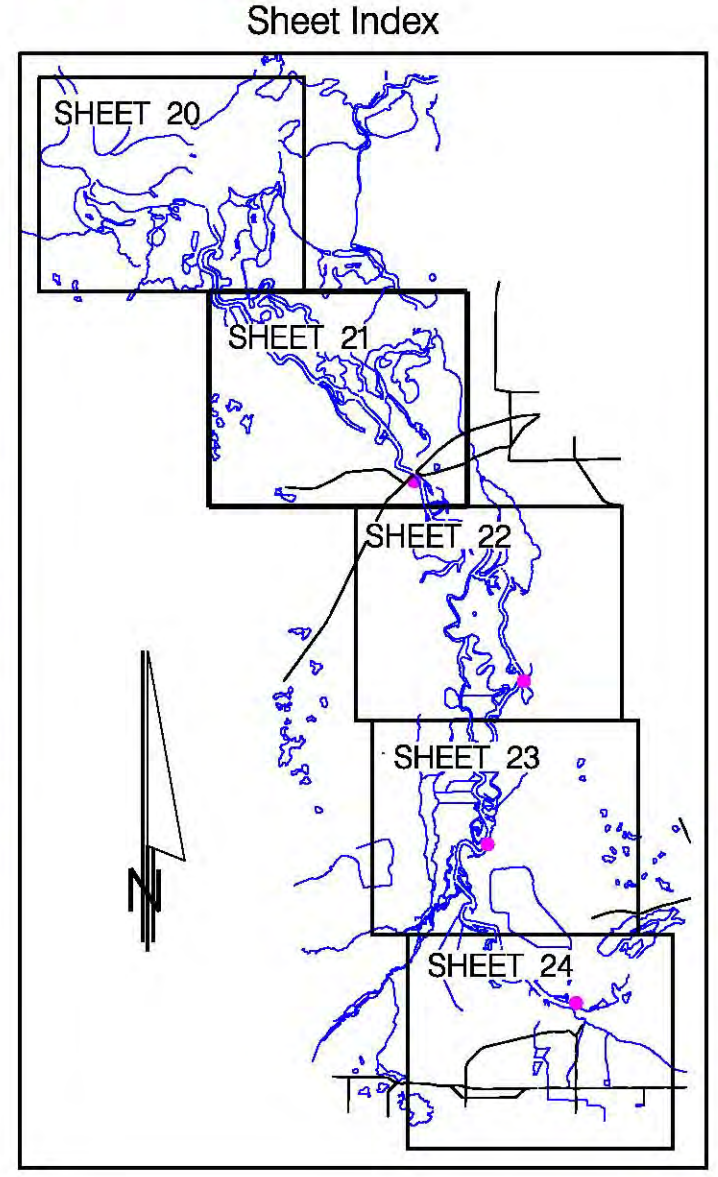
SHEET 20 OF 44



**Location of Navigational Aids**

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
R24	81°27'03.15954"	29°03'42.52622"	06/21/01
R26	81°25'06.12867"	29°02'16.19664"	06/21/01
R28	81°24'53.89860"	29°02'17.63579"	06/21/01
R30	81°24'40.44828"	29°02'08.57645"	06/21/01
G31	81°24'11.62725"	29°02'00.87325"	06/21/01
R32	81°24'12.54705"	29°01'58.60872"	06/21/01
R34	81°24'03.04025"	29°01'49.56943"	06/21/01
G35	81°23'40.24771"	29°01'32.03868"	06/21/01
R36	81°23'37.85349"	29°01'26.02650"	06/21/01
R38	81°23'28.66774"	29°01'14.58005"	06/21/01
G39	81°23'21.50798"	29°01'09.37744"	06/21/01

12.0' PROJECT  
US HIGHWAY 17 BRIDGE AT PALATKA, FL  
TO CSX RAILROAD BRIDGE AT LAKE MONROE



**Legend of Abbreviations**

NOVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
MLW	MEAN LOW WATER
R*	RED NAVIGATIONAL AID
G*	GREEN NAVIGATIONAL AID
RG	RED AND GREEN AID
PRIV	PRIVATE
RNG	NAVIGATION RANGE LINE
FSR	FRONT SAIL RANGE
RNR	REAR SAIL RANGE

**Legend of Symbols**

	BRIDGE FENDERS
	LIGHT
	TIDE GAUGE
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	RED AND GREEN DAYBEACON
	GREEN AND RED DAYBEACON
	RED DAYBEACON
	GREEN DAYBEACON
	COUNTY LINE

**NOTES:**  
1. REFER TO SURVEY NO. 81-804.  
2. SEE SHEET 1 FOR NOTES.

**US Army Corps of Engineers  
Jacksonville District**

**SAFETY ON THIS JOB  
DEPENDS ON YOU**

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**DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, Corps of Engineers  
Jacksonville, Florida**

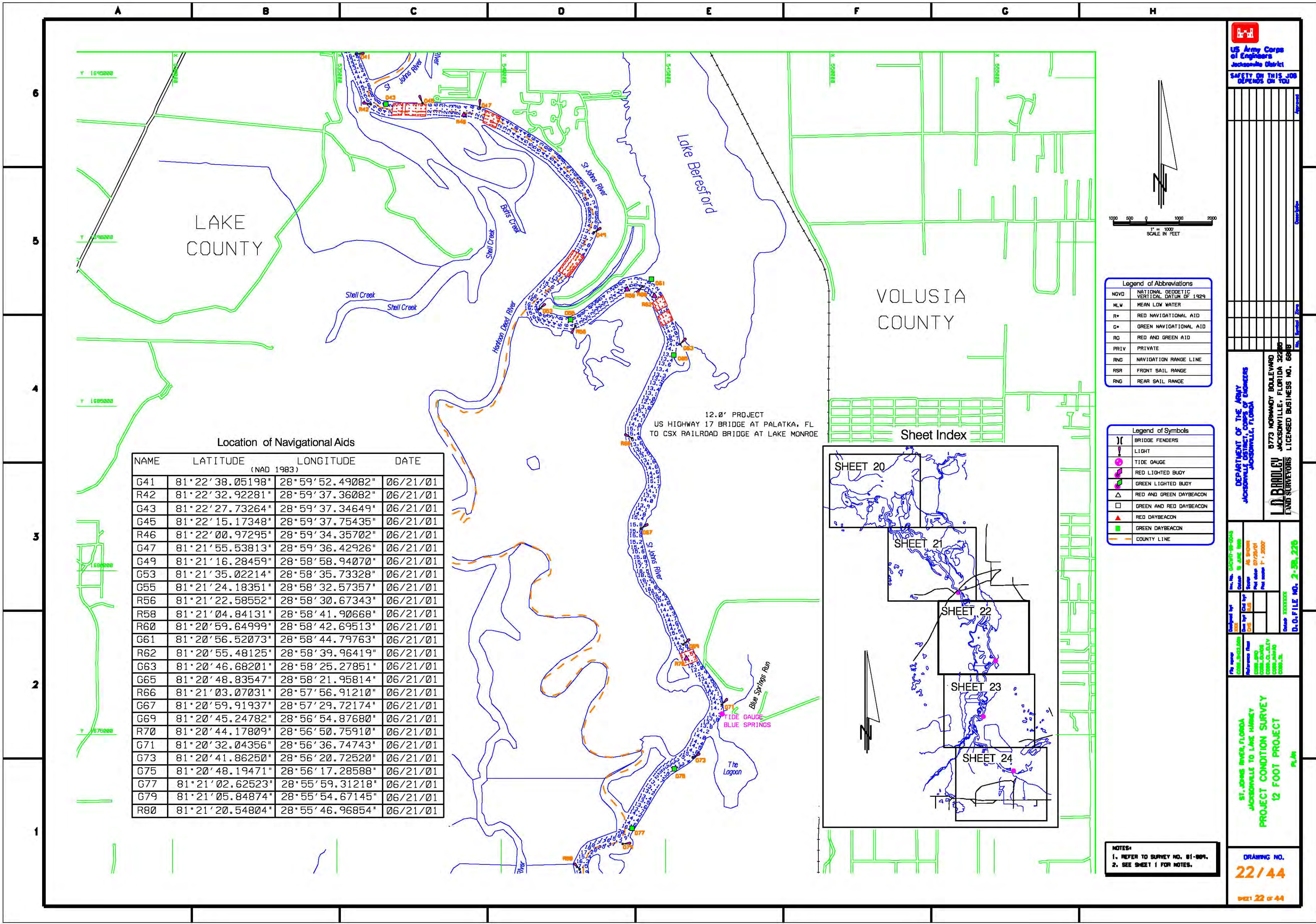
**L.D. BRADLEY  
7773 NORMANDY BOULEVARD  
JACKSONVILLE, FLORIDA 32209  
LAND SURVEYORS LICENSED BUSINESS NO. 688**

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**ST. JOHNS RIVER, FLORIDA  
JACKSONVILLE TO LAKE HAWNEY  
PROJECT CONDITION SURVEY  
12 FOOT PROJECT  
PLAN**

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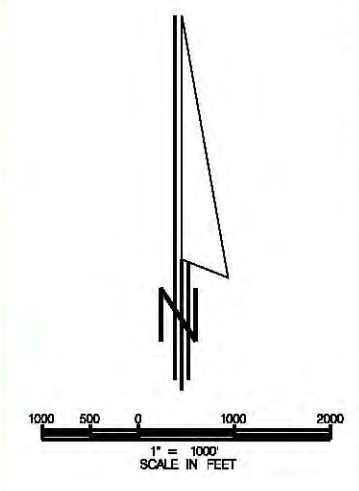
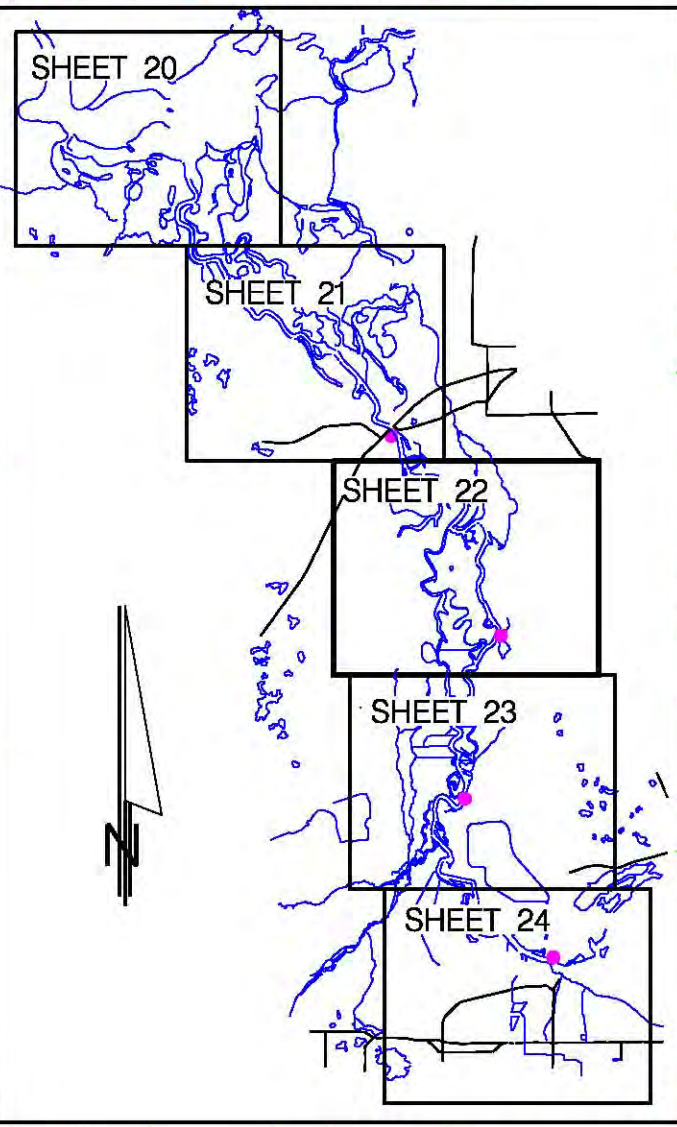
**DRAWING NO.  
21/44  
SHEET 21 of 44**



**Location of Navigational Aids**

NAME	LATITUDE (NAD 1983)	LONGITUDE (NAD 1983)	DATE
G41	81°22'38.05198"	28°59'52.49082"	06/21/01
R42	81°22'32.92281"	28°59'37.36082"	06/21/01
G43	81°22'27.73264"	28°59'37.34649"	06/21/01
G45	81°22'15.17348"	28°59'37.75435"	06/21/01
R46	81°22'00.97295"	28°59'34.35702"	06/21/01
G47	81°21'55.53813"	28°59'36.42926"	06/21/01
G49	81°21'16.28459"	28°58'58.94070"	06/21/01
G53	81°21'35.02214"	28°58'35.73328"	06/21/01
G55	81°21'24.18351"	28°58'32.57357"	06/21/01
R56	81°21'22.58552"	28°58'30.67343"	06/21/01
R58	81°21'04.84131"	28°58'41.90668"	06/21/01
R60	81°20'59.64999"	28°58'42.69513"	06/21/01
G61	81°20'56.52073"	28°58'44.79763"	06/21/01
R62	81°20'55.48125"	28°58'39.96419"	06/21/01
G63	81°20'46.68201"	28°58'25.27851"	06/21/01
G65	81°20'48.83547"	28°58'21.95814"	06/21/01
R66	81°21'03.07031"	28°57'56.91210"	06/21/01
G67	81°20'59.91937"	28°57'29.72174"	06/21/01
G69	81°20'45.24782"	28°56'54.87680"	06/21/01
R70	81°20'44.17809"	28°56'50.75910"	06/21/01
G71	81°20'32.04356"	28°56'36.74743"	06/21/01
G73	81°20'41.86250"	28°56'20.72520"	06/21/01
G75	81°20'48.19471"	28°56'17.28588"	06/21/01
G77	81°21'02.62523"	28°55'59.31218"	06/21/01
G79	81°21'05.84874"	28°55'54.67145"	06/21/01
R80	81°21'20.54804"	28°55'46.96854"	06/21/01

12.0' PROJECT  
US HIGHWAY 17 BRIDGE AT PALATKA, FL  
TO CSX RAILROAD BRIDGE AT LAKE MONROE



**Legend of Abbreviations**

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
MLW	MEAN LOW WATER
R+	RED NAVIGATIONAL AID
G+	GREEN NAVIGATIONAL AID
RG	RED AND GREEN AID
PRIV	PRIVATE
RNG	NAVIGATION RANGE LINE
RSR	FRONT SAIL RANGE
RNR	REAR SAIL RANGE

**Legend of Symbols**

( )	BRIDGE FENDERS
*	LIGHT
○	TIDE GAUGE
○	RED LIGHTED BUOY
○	GREEN LIGHTED BUOY
△	RED AND GREEN DAYBEACON
□	GREEN AND RED DAYBEACON
△	RED DAYBEACON
○	GREEN DAYBEACON
—	COUNTY LINE

**NOTES:**  
1. REFER TO SURVEY NO. 81-889.  
2. SEE SHEET 1 FOR NOTES.

**US Army Corps of Engineers**  
Jacksonville District

**SAFETY ON THIS JOB DEPENDS ON YOU**

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

**L.D. BRADLEY**  
JACKSONVILLE, FLORIDA 32209  
LAND SURVEYORS LICENSED BUSINESS NO. 6888

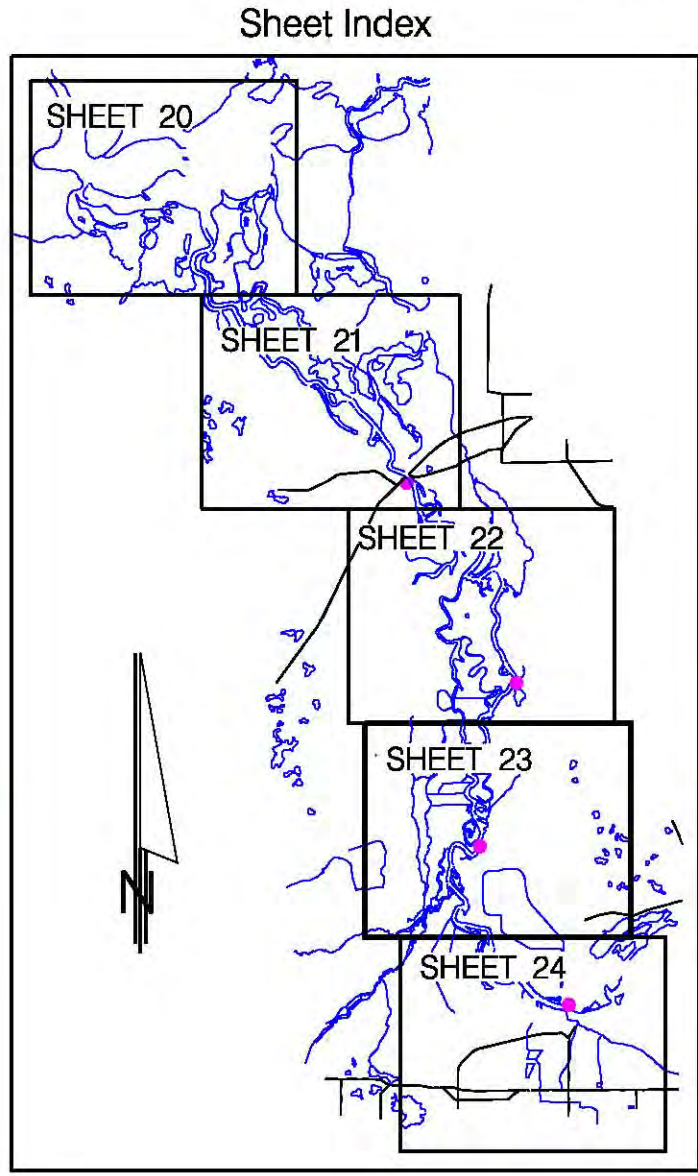
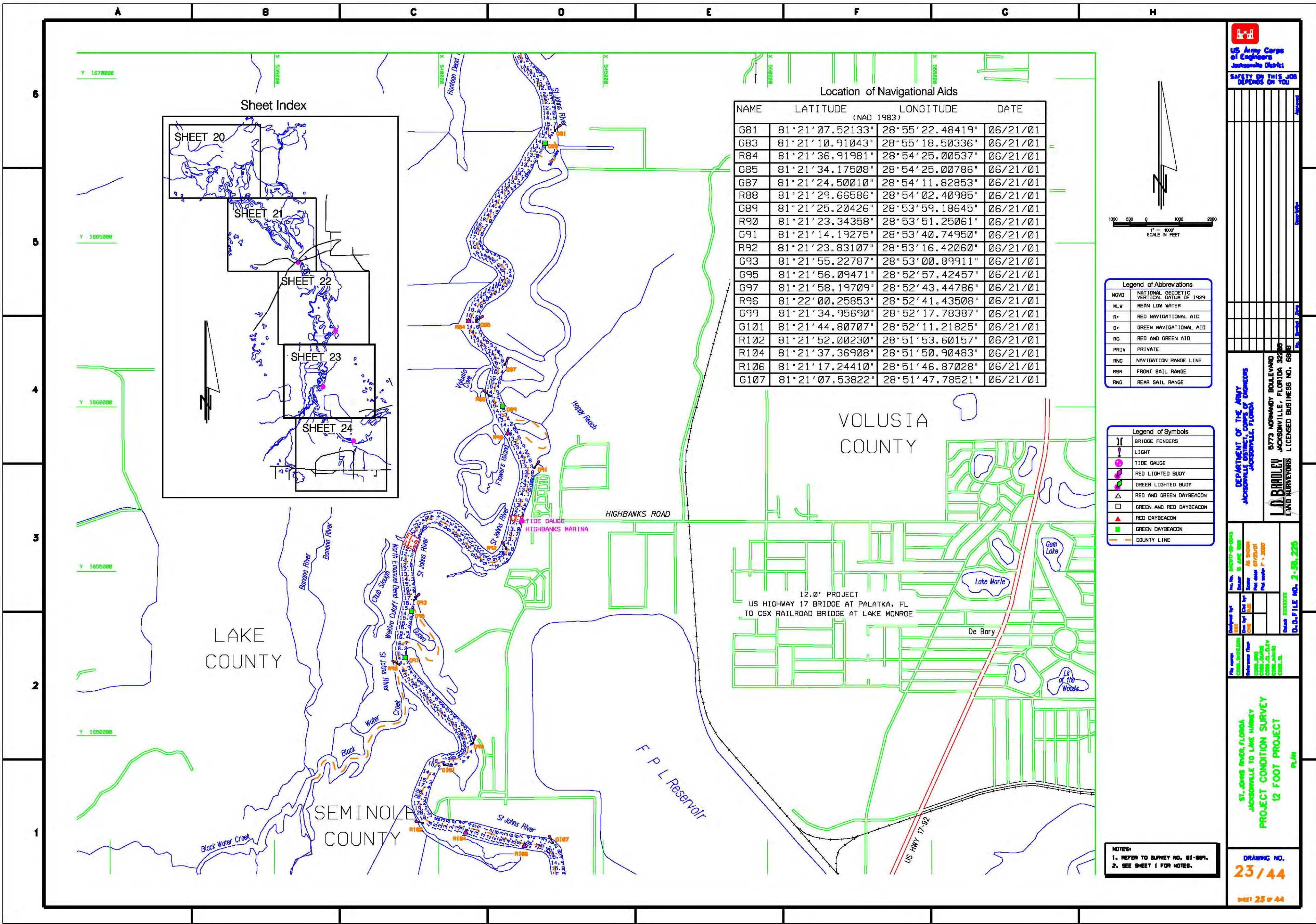
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**ST. JOHNS RIVER, FLORIDA**  
JACKSONVILLE TO LAKE MONROE  
PROJECT CONDITION SURVEY  
12 FOOT PROJECT  
PLAN

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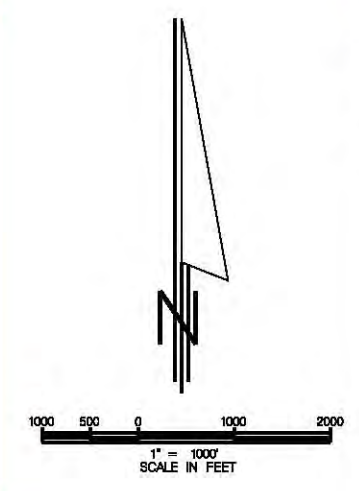
**DRAWING NO.**  
**22/44**

SHEET 22 OF 44



Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
G81	81°21'07.52133"	28°55'22.48419"	06/21/01
G83	81°21'10.91043"	28°55'18.50336"	06/21/01
R84	81°21'36.91981"	28°54'25.00537"	06/21/01
G85	81°21'34.17508"	28°54'25.00786"	06/21/01
G87	81°21'24.50010"	28°54'11.82853"	06/21/01
R88	81°21'29.66586"	28°54'02.40985"	06/21/01
G89	81°21'25.20426"	28°53'59.18645"	06/21/01
R90	81°21'23.34358"	28°53'51.25061"	06/21/01
G91	81°21'14.19275"	28°53'40.74950"	06/21/01
R92	81°21'23.83107"	28°53'16.42060"	06/21/01
G93	81°21'55.22787"	28°53'00.89911"	06/21/01
G95	81°21'56.09471"	28°52'57.42457"	06/21/01
G97	81°21'58.19709"	28°52'43.44786"	06/21/01
R99	81°22'00.25853"	28°52'41.43508"	06/21/01
G99	81°21'34.95690"	28°52'17.78387"	06/21/01
G101	81°21'44.80707"	28°52'11.21825"	06/21/01
R102	81°21'52.00230"	28°51'53.60157"	06/21/01
R104	81°21'37.36908"	28°51'50.90483"	06/21/01
R106	81°21'17.24410"	28°51'46.87028"	06/21/01
G107	81°21'07.53822"	28°51'47.78521"	06/21/01



Legend of Abbreviations

NOVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
MLW	MEAN LOW WATER
R*	RED NAVIGATIONAL AID
G*	GREEN NAVIGATIONAL AID
RG	RED AND GREEN AID
PRIV	PRIVATE
RNG	NAVIGATION RANGE LINE
RSR	FRONT SAIL RANGE
RNR	REAR SAIL RANGE

Legend of Symbols

( )	BRIDGE FENDERS
( )	LIGHT
( )	TIDE GAUGE
( )	RED LIGHTED BUOY
( )	GREEN LIGHTED BUOY
( )	RED AND GREEN DAYBEACON
( )	GREEN AND RED DAYBEACON
( )	RED DAYBEACON
( )	GREEN DAYBEACON
( )	COUNTY LINE

**US Army Corps of Engineers**  
 Jacksonville District  
 SAFETY ON THIS JOB  
 DEPENDS ON YOU

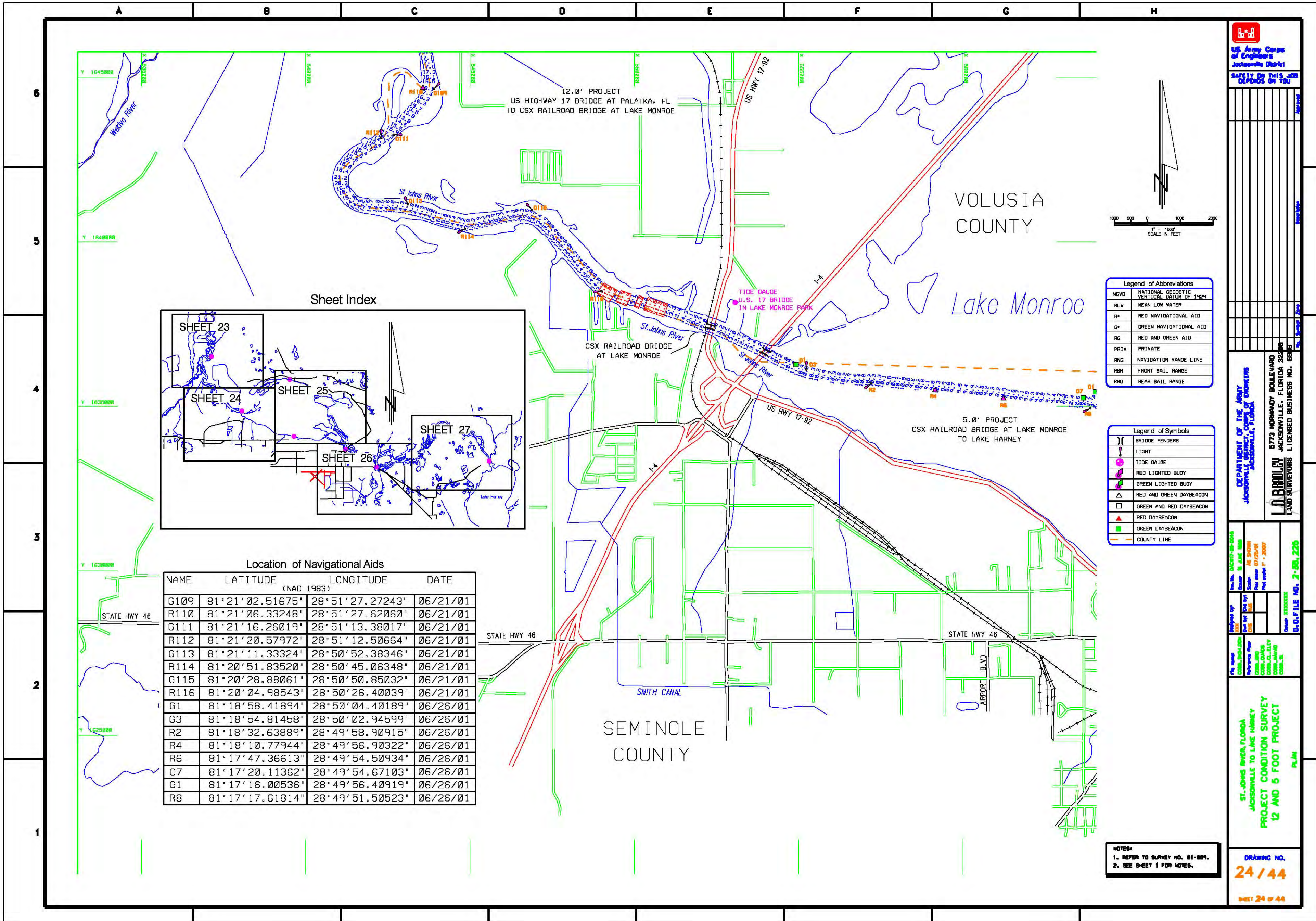
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 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
 JACKSONVILLE, FLORIDA  
**L.D. BRADLEY**  
 LAND SURVEYORS LICENSED BUSINESS NO. 688

Project No. 12-0017-01-001  
 Date: 06/21/01  
 Scale: As Shown  
 Date: 07/27/01  
 Project No. 12-0017-01-001  
 Date: 07/27/01  
 Scale: As Shown

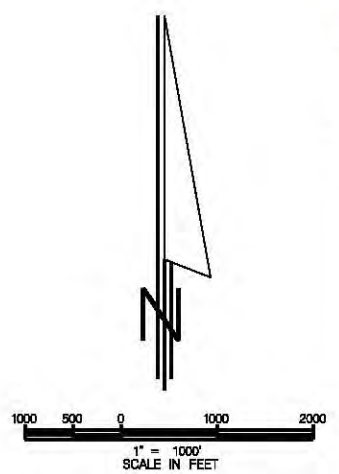
ST. JOHNS RIVER, FLORIDA  
 JACKSONVILLE TO LAKE MONROE  
 PROJECT CONDITION SURVEY  
 12 FOOT PROJECT  
 PLAN

NOTES:  
 1. REFER TO SURVEY NO. 81-809.  
 2. SEE SHEET 1 FOR NOTES.

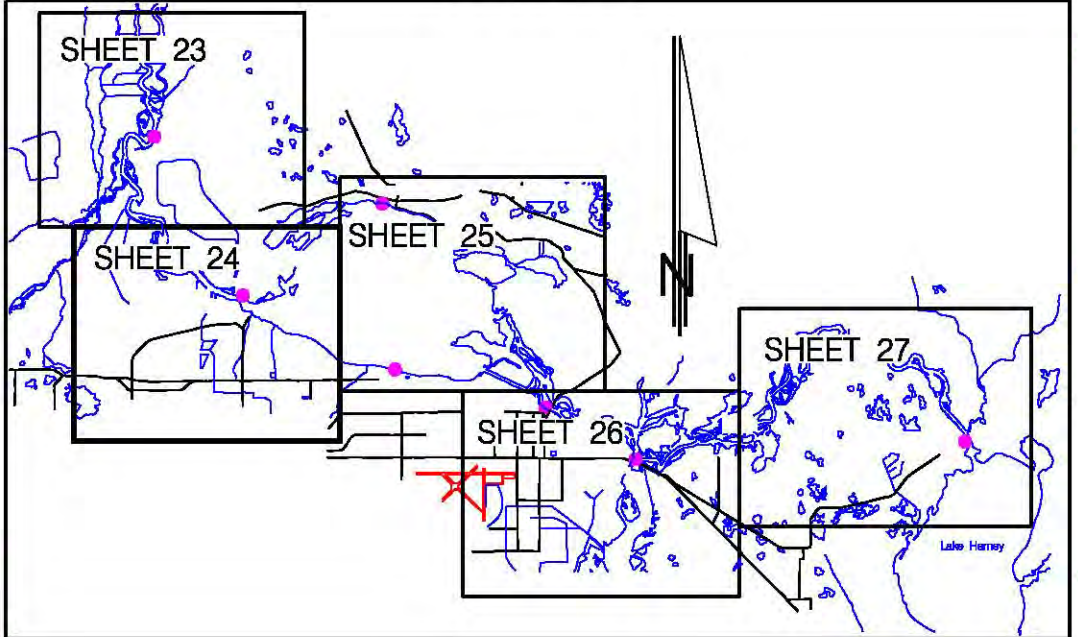
DRAWING NO.  
**23/44**  
 SHEET 23 OF 44



US Army Corps of Engineers  
Jacksonville District  
SAFETY IS THIS JOB DEPENDS ON YOU



Sheet Index



Legend of Abbreviations

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
MLW	MEAN LOW WATER
R*	RED NAVIGATIONAL AID
G*	GREEN NAVIGATIONAL AID
RG	RED AND GREEN AID
PRIV	PRIVATE
RNG	NAVIGATION RANGE LINE
FSR	FRONT SAIL RANGE
RNR	REAR SAIL RANGE

Legend of Symbols

	BRIDGE FENDERS
⬆	LIGHT
⬆	TIDE GAUGE
⬆	RED LIGHTED BODY
⬆	GREEN LIGHTED BODY
△	RED AND GREEN DAYBEACON
□	GREEN AND RED DAYBEACON
△	RED DAYBEACON
□	GREEN DAYBEACON
---	COUNTY LINE

Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
G109	81°21'02.51675"	28°51'27.27243"	06/21/01
R110	81°21'06.33248"	28°51'27.62060"	06/21/01
G111	81°21'16.26019"	28°51'13.38017"	06/21/01
R112	81°21'20.57972"	28°51'12.50664"	06/21/01
G113	81°21'11.33324"	28°50'52.38346"	06/21/01
R114	81°20'51.83520"	28°50'45.06348"	06/21/01
G115	81°20'28.88061"	28°50'50.85032"	06/21/01
R116	81°20'04.98543"	28°50'26.40039"	06/21/01
G1	81°18'58.41894"	28°50'04.40189"	06/26/01
G3	81°18'54.81458"	28°50'02.94599"	06/26/01
R2	81°18'32.63889"	28°49'58.90915"	06/26/01
R4	81°18'10.77944"	28°49'56.90322"	06/26/01
R6	81°17'47.36613"	28°49'54.50934"	06/26/01
G7	81°17'20.11362"	28°49'54.67103"	06/26/01
G1	81°17'16.00536"	28°49'56.40919"	06/26/01
R8	81°17'17.61814"	28°49'51.50523"	06/26/01

NOTES:  
1. REFER TO SURVEY NO. 01-004.  
2. SEE SHEET 1 FOR NOTES.

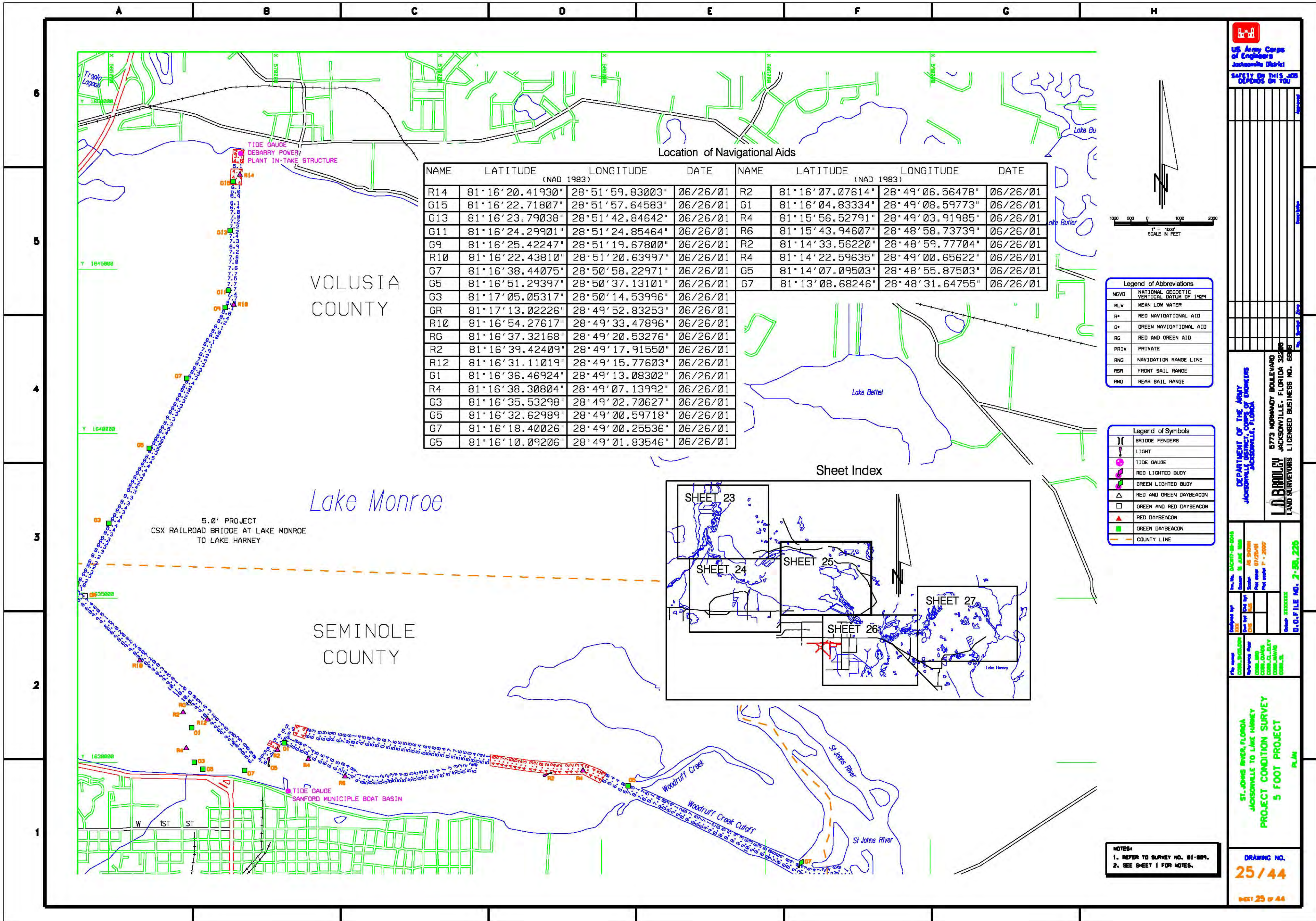
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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA  
L.D. BRADLEY  
LAND SURVEYORS LICENSED BUSINESS NO. 6888

Prepared by: [Name]  
Checked by: [Name]  
Date: [Date]  
Scale: AS SHOWN  
Per Order: 07/26/01  
Per Order: P-2007

ST. JOHNS RIVER, FLORIDA  
JACKSONVILLE TO LAKE HARNEY  
PROJECT CONDITION SURVEY  
12 AND 5 FOOT PROJECT  
P.L.M.

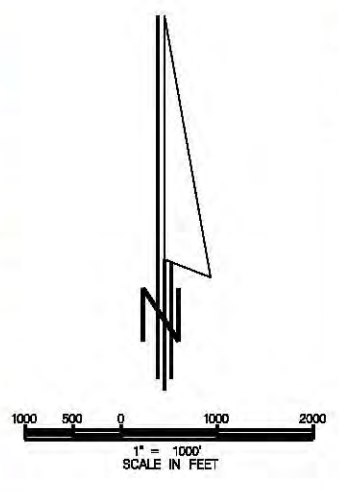
DRAWING NO.  
**24 / 44**  
SHEET 24 OF 44





Location of Navigational Aids

NAME	LATITUDE (NAD 1983)	LONGITUDE (NAD 1983)	DATE	NAME	LATITUDE (NAD 1983)	LONGITUDE (NAD 1983)	DATE
R14	81°16'20.41930"	28°51'59.83003"	06/26/01	R2	81°16'07.07614"	28°49'06.56478"	06/26/01
G15	81°16'22.71807"	28°51'57.64583"	06/26/01	G1	81°16'04.83334"	28°49'08.59773"	06/26/01
G13	81°16'23.79038"	28°51'42.84642"	06/26/01	R4	81°15'56.52791"	28°49'03.91985"	06/26/01
G11	81°16'24.29901"	28°51'24.85464"	06/26/01	R6	81°15'43.94607"	28°48'58.73739"	06/26/01
G9	81°16'25.42247"	28°51'19.67800"	06/26/01	R2	81°14'33.56220"	28°48'59.77704"	06/26/01
R10	81°16'22.43810"	28°51'20.63997"	06/26/01	R4	81°14'22.59635"	28°49'00.65622"	06/26/01
G7	81°16'38.44075"	28°50'58.22971"	06/26/01	G5	81°14'07.09503"	28°48'55.87503"	06/26/01
G5	81°16'51.29397"	28°50'37.13101"	06/26/01	G7	81°13'08.68246"	28°48'31.64755"	06/26/01
G3	81°17'05.05317"	28°50'14.53996"	06/26/01				
GR	81°17'13.02226"	28°49'52.83253"	06/26/01				
R10	81°16'54.27617"	28°49'33.47896"	06/26/01				
RG	81°16'37.32168"	28°49'20.53276"	06/26/01				
R2	81°16'39.42409"	28°49'17.91550"	06/26/01				
R12	81°16'31.11019"	28°49'15.77603"	06/26/01				
G1	81°16'36.46924"	28°49'13.08302"	06/26/01				
R4	81°16'38.30804"	28°49'07.13992"	06/26/01				
G3	81°16'35.53298"	28°49'02.70627"	06/26/01				
G5	81°16'32.62989"	28°49'00.59718"	06/26/01				
G7	81°16'18.40026"	28°49'00.25536"	06/26/01				
G5	81°16'10.09206"	28°49'01.83546"	06/26/01				

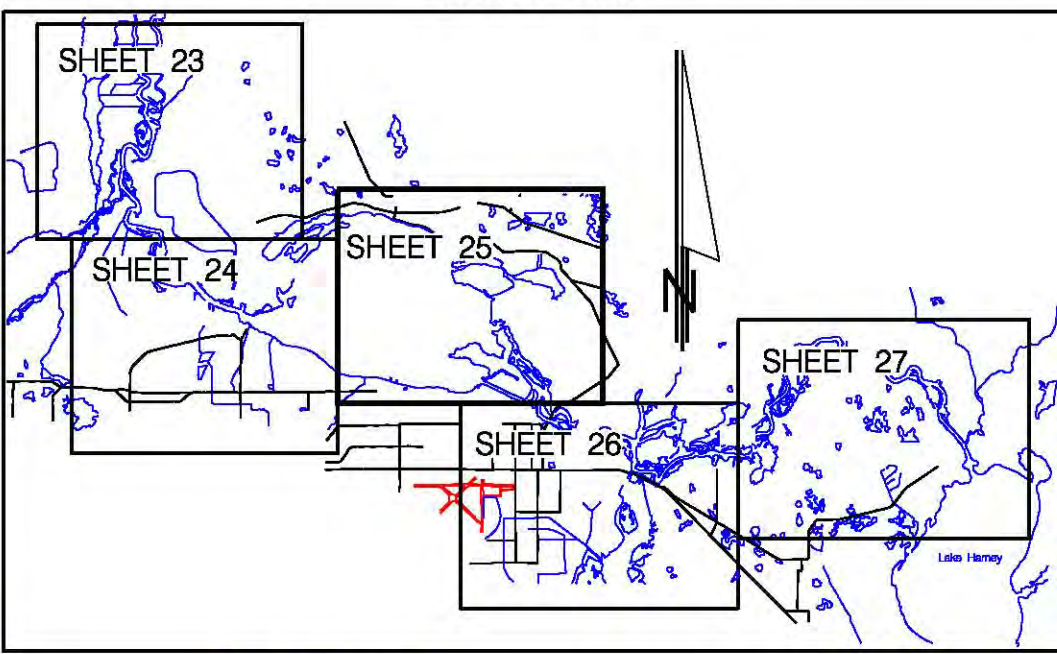


Legend of Abbreviations

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
MLW	MEAN LOW WATER
R*	RED NAVIGATIONAL AID
G*	GREEN NAVIGATIONAL AID
RG	RED AND GREEN AID
PRIV	PRIVATE
RNG	NAVIGATION RANGE LINE
FSR	FRONT SAIL RANGE
RNR	REAR SAIL RANGE

Legend of Symbols

	BRIDGE FENDERS
○	LIGHT
○	TIDE GAUGE
○	RED LIGHTED BUDY
○	GREEN LIGHTED BUDY
△	RED AND GREEN DAYBEACON
□	GREEN AND RED DAYBEACON
△	RED DAYBEACON
○	GREEN DAYBEACON
- - -	COUNTY LINE



NOTES:  
 1. REFER TO SURVEY NO. 01-004.  
 2. SEE SHEET 1 FOR NOTES.

US Army Corps of Engineers  
 Jacksonville District  
 SAFETY IS THIS JOB DEPENDS ON YOU

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

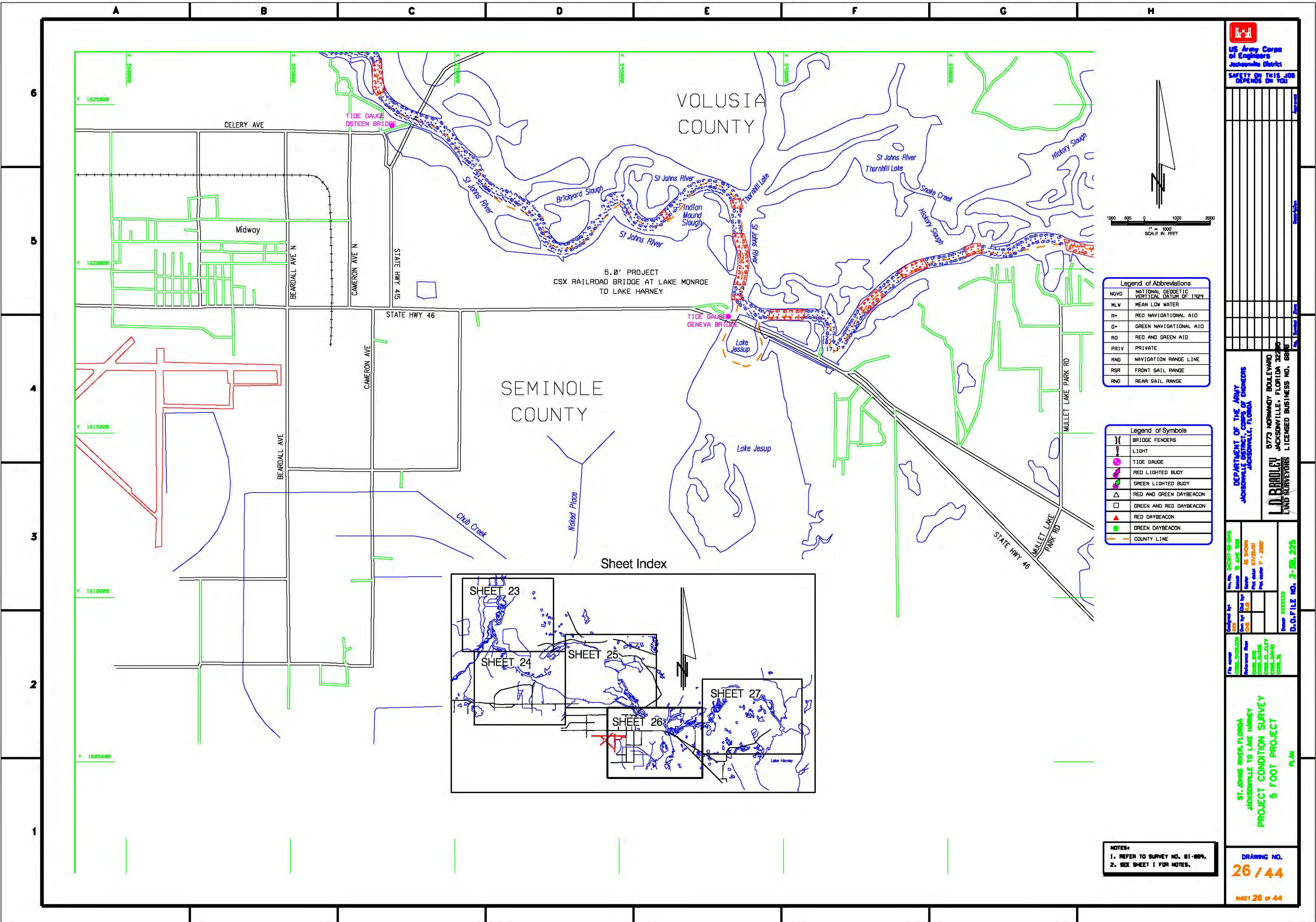
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 LAND SURVEYORS  
 LICENSED BUSINESS NO. 6886

0773 NORWANDY BOULEVARD  
 JACKSONVILLE, FLORIDA 32209

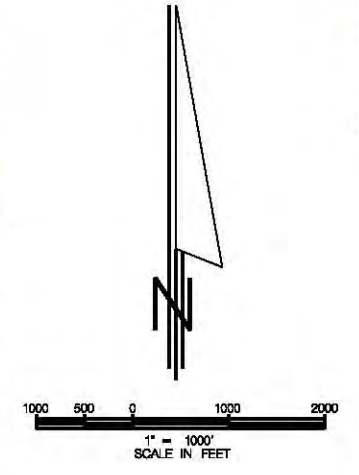
ST. JOHNS RIVER, FLORIDA  
 JACKSONVILLE TO LAKE HARNEY  
 PROJECT CONDITION SURVEY  
 5 FOOT PROJECT  
 P.L.M.

DRAWING NO.  
**25/44**

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 US Army Corps  
 of Engineers  
 Jacksonville District  
 SAFETY ON THIS JOB  
 DEPENDS ON YOU

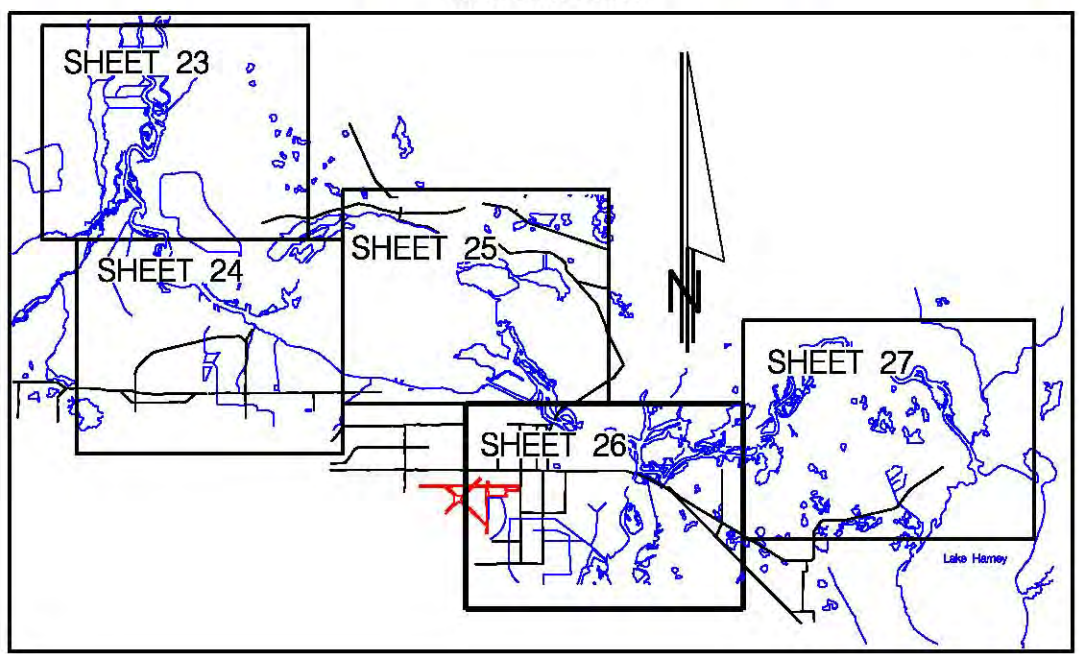


Legend of Abbreviations

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
MLW	MEAN LOW WATER
R+	RED NAVIGATIONAL AID
G+	GREEN NAVIGATIONAL AID
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Legend of Symbols

	BRIDGE FENDERS
	LIGHT
	TIDE GAUGE
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	RED AND GREEN DAYBEACON
	GREEN AND RED DAYBEACON
	RED DAYBEACON
	GREEN DAYBEACON
	COUNTY LINE



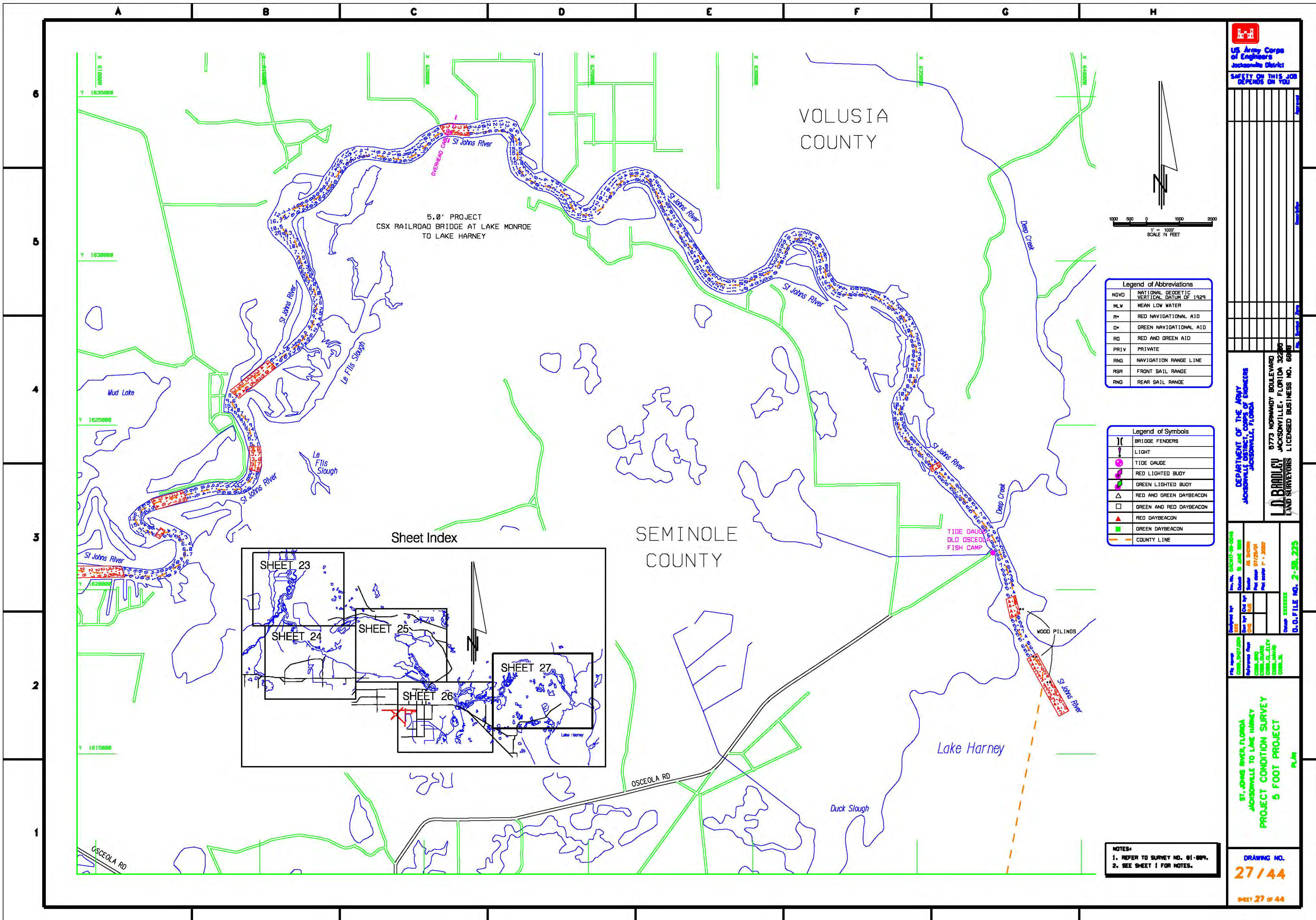
NOTES:  
 1. REFER TO SURVEY NO. 01-009.  
 2. SEE SHEET 1 FOR NOTES.

DEPARTMENT OF THE ARMY  
 JACKSONVILLE DISTRICT  
 JACKSONVILLE, FLORIDA  
 L.D. BRADLEY  
 LICENSED BUSINESS NO. 6883  
 LIND SURVEYORS  
 8773 NORMANDY BOULEVARD  
 JACKSONVILLE, FLORIDA 32206

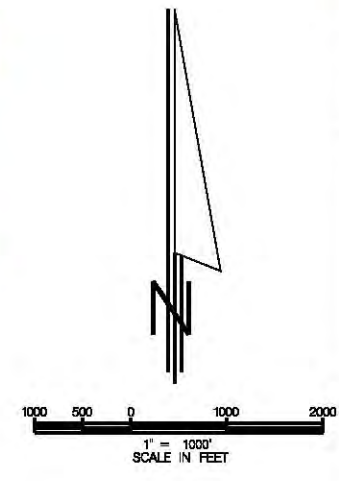
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Scale	AS SHOWN
Date	07/25/01
Permit No.	1-2007
Project Name	PROJECT CONDITION SURVEY 5 FOOT PROJECT
Sheet No.	26 of 44

ST. JOHNS RIVER, FLORIDA  
 JACKSONVILLE TO LAKE HARNEY  
 PROJECT CONDITION SURVEY  
 5 FOOT PROJECT  
 PLAN

DRAWING NO.  
**26 / 44**  
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**U.S. Army Corps of Engineers**  
 Jacksonville District  
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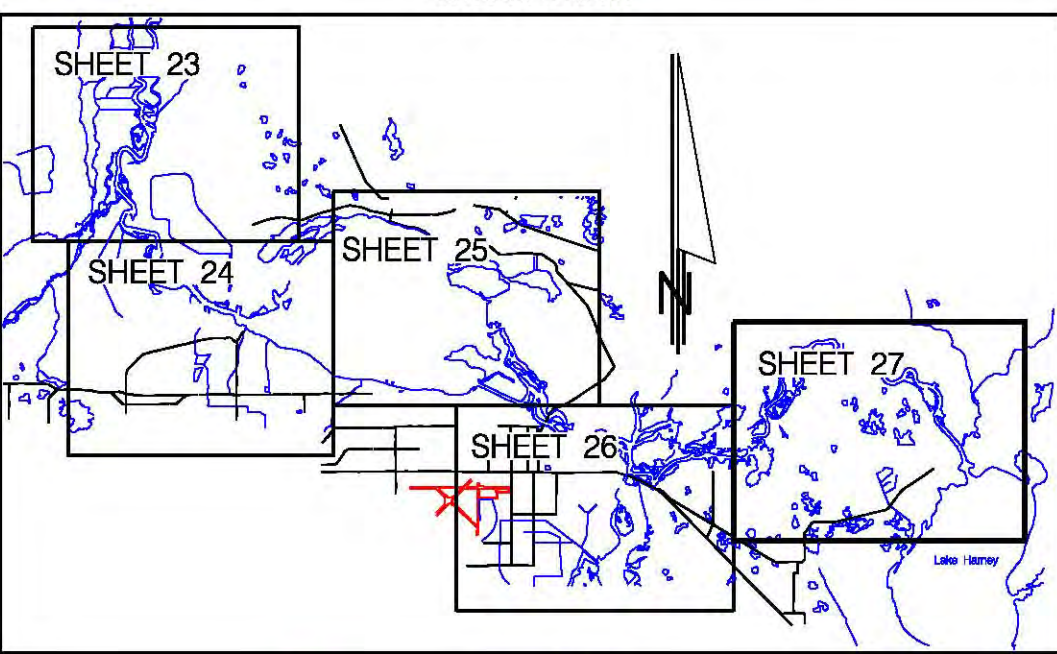


**Legend of Abbreviations**

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
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**Legend of Symbols**

	BRIDGE FENDERS
	LIGHT
	TIDE GAUGE
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	RED AND GREEN DAYBEACON
	GREEN AND RED DAYBEACON
	RED DAYBEACON
	GREEN DAYBEACON
	COUNTY LINE



DEPARTMENT OF THE ARMY  
 Jacksonville District  
 6773 NORMANDY BOULEVARD  
 JACKSONVILLE, FLORIDA 32209  
**L.D. BRADLEY**  
 LAND SURVEYORS LICENSED BUSINESS NO. 6888

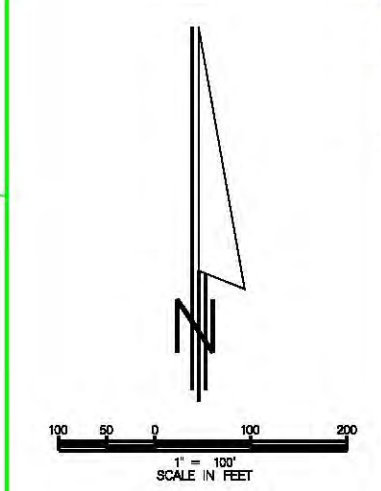
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 Issue Date: 07/26/09  
 Issue No: 1 of 2009  
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 D.D. FILE NO. 2-35, 225

**ST. JOHNS RIVER, FLORIDA  
 JACKSONVILLE TO LAKE HARNEY  
 PROJECT CONDITION SURVEY  
 5 FOOT PROJECT  
 PLAN**

**NOTES:**  
 1. REFER TO SURVEY NO. 01-001.  
 2. SEE SHEET 1 FOR NOTES.

**DRAWING NO.**  
**27/44**  
 SHEET 27 of 44

# Cross Section Area "2"



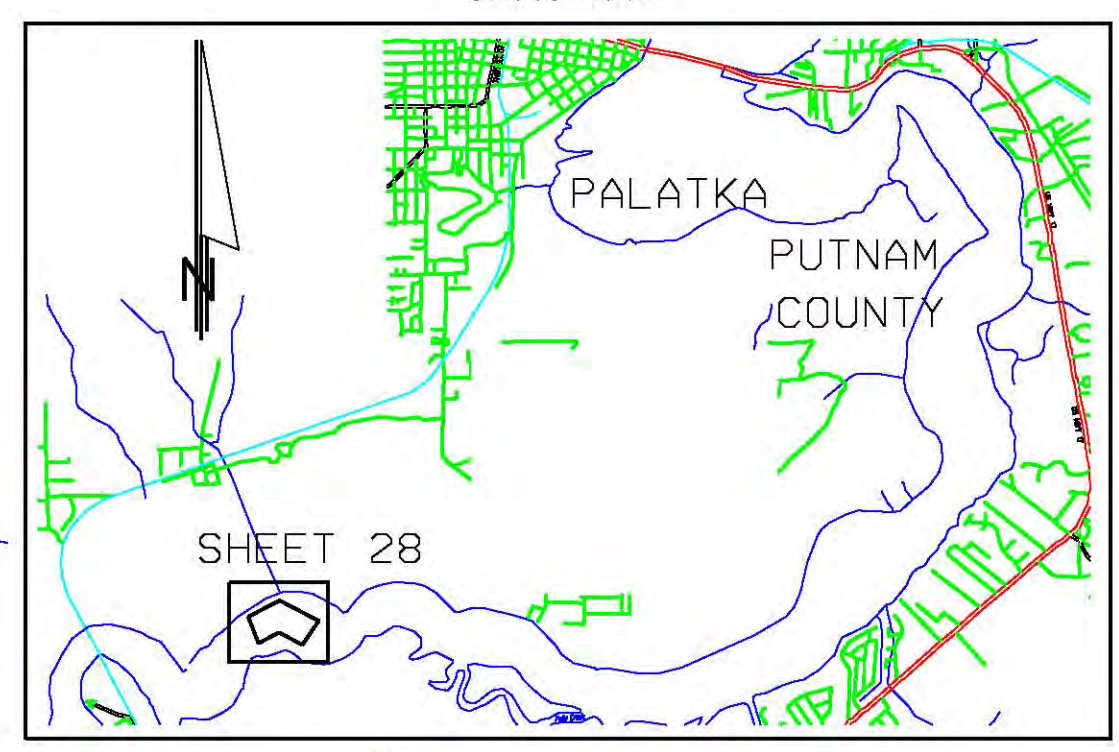
**Legend of Abbreviations**

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
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**Legend of Symbols**

	BRIDGE FENDERS
	LIGHT
	TIDE GAUGE
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	RED AND GREEN DAYBEACON
	GREEN AND RED DAYBEACON
	RED DAYBEACON
	GREEN DAYBEACON
	COUNTY LINE

Sheet Index



**Location of Navigational Aids**

NAME	LATITUDE (NAD 1983)	LONGITUDE	DATE
G23	81° 39' 49.66741"	29° 35' 52.54215"	06/22/01

**NOTES:**  
 1. REFER TO SURVEY NO. 01-009.  
 2. SEE SHEET 1 FOR NOTES.

**US Army Corps of Engineers**  
 Jacksonville District  
 SAFETY ON THIS JOB DEPENDS ON YOU

**DEPARTMENT OF THE ARMY**  
 Jacksonville District  
 6773 NORMANDY BOULEVARD  
 JACKSONVILLE, FLORIDA 32209  
 LAND SURVEYORS LICENSED BUSINESS NO. 6888

**ST. JOHNS RIVER, FLORIDA**  
 JACKSONVILLE TO LAKE HUBBARD  
 PROJECT CONDITION SURVEY  
 12 FOOT PROJECT

**DRAWING NO.**  
 28/44  
 SHEET 28 of 44

**D.O. FILE NO.** 2-35-225