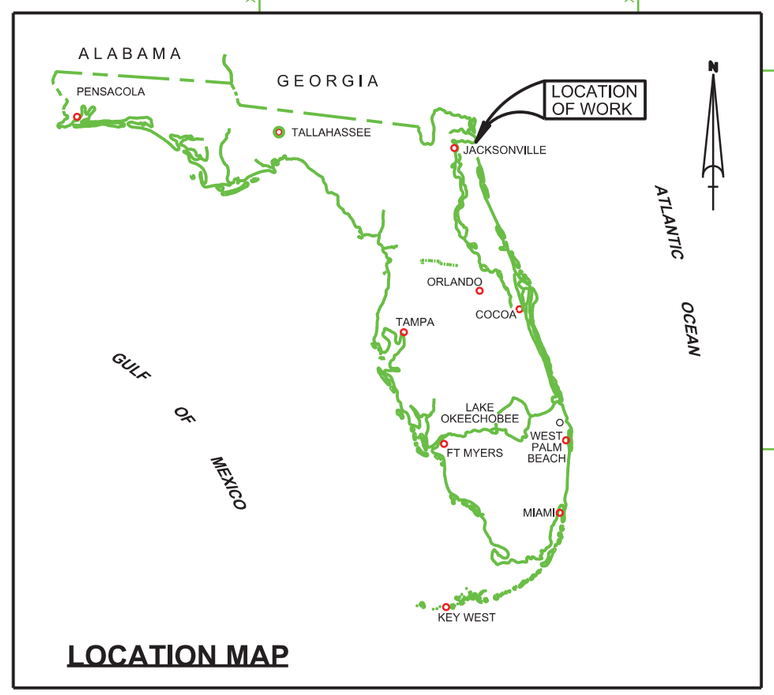
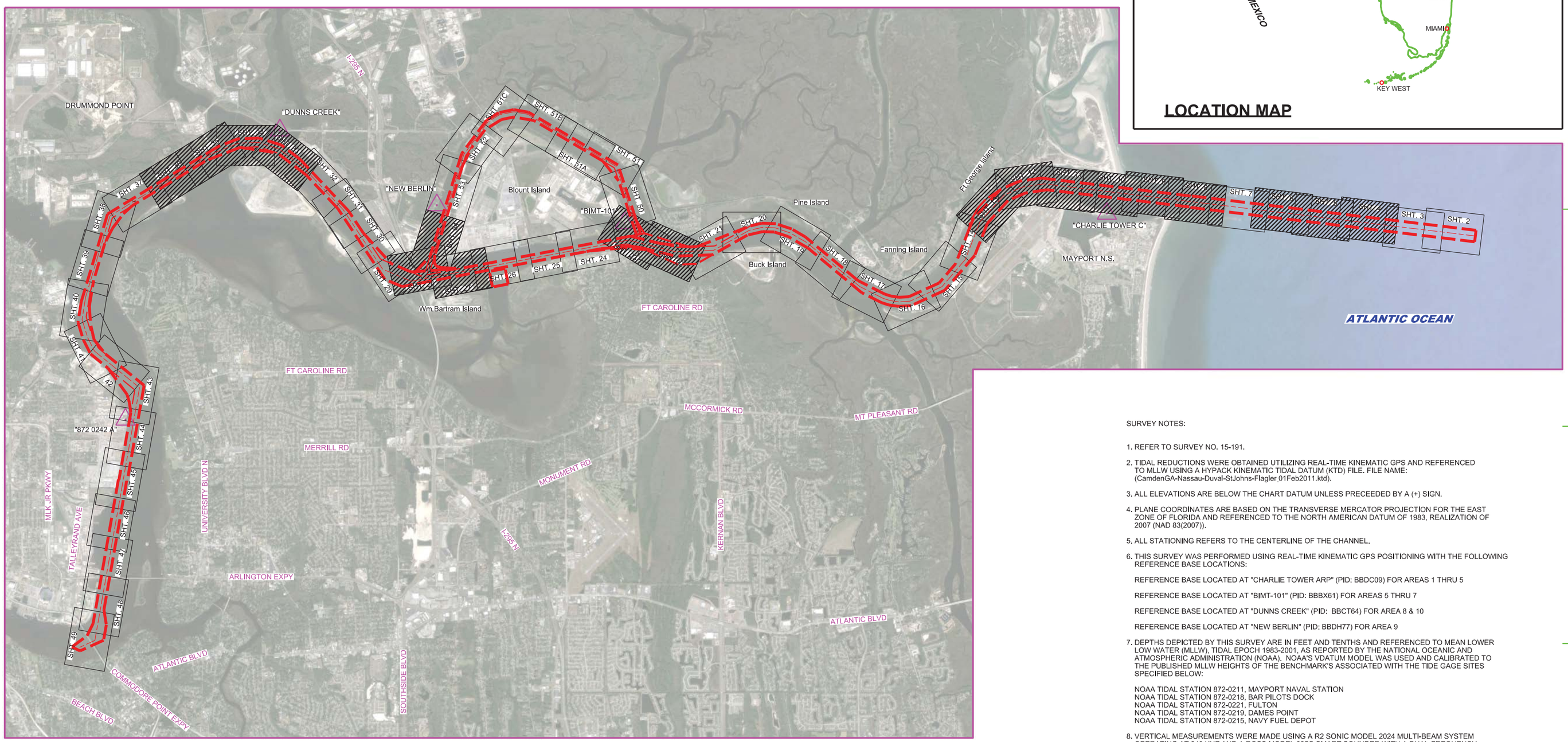
JACKSONVILLE HARBOR, FLORIDA
TEN (10) HOT SPOT SHOAL AREAS
4th QUARTER EXAM SURVEY FY15



LOCATION MAP



SURVEY NOTES:

1. REFER TO SURVEY NO. 15-191.
2. TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC GPS AND REFERENCED TO MLLW USING A HYPACK KINEMATIC TIDAL DATUM (KTD) FILE. FILE NAME: (CamdenGA-Nassau-Duval-StJohns-Flagler_01Feb2011.ktd).
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEEDED BY A (+) SIGN.
4. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983, REALIZATION OF 2007 (NAD 83(2007)).
5. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
6. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:

   REFERENCE BASE LOCATED AT "CHARLIE TOWER ARP" (PID: BBDC09) FOR AREAS 1 THRU 5

   REFERENCE BASE LOCATED AT "BIMT-101" (PID: BBBX61) FOR AREAS 5 THRU 7

   REFERENCE BASE LOCATED AT "DUNNS CREEK" (PID: BBCT64) FOR AREA 8 & 10

   REFERENCE BASE LOCATED AT "NEW BERLIN" (PID: BBDH77) FOR AREA 9
7. DEPTHS DEPICTED BY THIS SURVEY ARE IN FEET AND TENTHS AND REFERENCED TO MEAN LOWER LOW WATER (MLLW). TIDAL EPOCH 1983-2001, AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). NOAA'S VDATUM MODEL WAS USED AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCHMARK'S ASSOCIATED WITH THE TIDE GAGE SITES SPECIFIED BELOW:

   NOAA TIDAL STATION 872-0211, MAYPORT NAVAL STATION
   NOAA TIDAL STATION 872-0218, BAR PILOTS DOCK
   NOAA TIDAL STATION 872-0221, FULTON
   NOAA TIDAL STATION 872-0219, DAMES POINT
   NOAA TIDAL STATION 872-0215, NAVY FUEL DEPOT
8. VERTICAL MEASUREMENTS WERE MADE USING A R2 SONIC MODEL 2024 MULTI-BEAM SYSTEM OPERATING AT 240 KHZ AND A ROSS MODEL 835C SMART SOUNDER WITH A DUAL-FREQUENCY (28 & 200 KHZ) SINGLE-BEAM TRANSDUCER. ALL SOUNDINGS SHOWN IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	AREA SURVEYED
SB-46	13 OCT 2015	AREA-1, BAR CUT-3, STA 90+00 TO 140+00
SB-46	08 OCT 2015	AREA-2, BAR CUT-3, STA 188+00 TO 197+00
SB-46	08 OCT 2015	AREA-3, BAR CUT-3, STA 217+00 TO 270+00
SB-46	08 OCT 2015	AREA-4, BAR CUT-3, STA 270+00 TO 300+00
SB-46	08 OCT 2015	AREA-4, CUT 4, STA 0+00 TO 15+38.67
SB-46	06 OCT 2015	AREA-4, CUT-5, STA 0+00 TO 13+58.23
SB-46	06 OCT 2015	AREA-4, CUT-6, STA 0+00 TO 24+72.13
SB-46	07 OCT 2015	AREA-5, CUT-9, STA 24+00 TO 24+66.40
SB-46	07 OCT 2015	AREA-5, CUT-9, STA 0+00 TO 20+00
SB-46	07 OCT 2015	AREA-6, CUT-11, STA 0+00 TO 6+08.86
SB-46	07 OCT 2015	AREA-6, CUT-12, STA 0+00 TO 4+96.24
SB-46	06 OCT 2015	AREA-7, CUT-40, STA 15+00 TO 25+99.73
SB-46	06 OCT 2015	AREA-7, CUT-41, STA 0+00 TO 32+00
SB-46	23 SEP 2015	AREA-8, CUT-50, STA 6+00 TO 42+00
SB-46	02 OCT 2015	AREA-9, CUT-G, STA 45+00 TO 87+05.93
SB-46	23 SEP 2015	AREA-10, CUT-47, STA 0+00 TO 14+95.71
SB-46	23 SEP 2015	AREA-10, CUT-48, STA 0+00 TO 13+45.45

9. AIDS TO NAVIGATION WERE LOCATED FOR THIS SURVEY.
10. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. THIS CHART IS SOLELY FOR THE DISTRIBUTION OF AVAILABLE DEPTHS AT THE TIME OF SURVEY.
11. SURVEY ACCURACY STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 30 NOV 2013.

GRAPHIC SCALE
3000' 0 3000' 6000'

AUTHORIZED PROJECT DEPTH	
42 FT	CUT - 3 (BAR CUT), STA. 0+00 THRU STA. 210+00
40 FT	CUT - 3 (BAR CUT) STA. 210+00 THRU TERMINAL CHANNEL STA. 65+00.
34 FT	TERMINAL CHANNEL, STA. 65+00 THRU STA. 186+21 (APPROX. 1200 FEET UPSTREAM FROM THE HART BRIDGE NEAR COMMODORE POINT).
30 FT	CUT-A, STA. 0+00 THRU 53+10.21
38 FT	OLD RIVER BLOUNT ISLAND (WESTSIDE) CHANNEL CUT-F, STA. 10+00 - NEAR WOODEN FISHING BRIDGE PIER THRU INTERSECTION OF CUT - 42 (DAMES PT. - FULTON CUT - OFF

LEGEND	
△	MONUMENT
	LIGHTED BEACON
■	GREEN DAYBEACON
▲	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
C	CAN BUOY
N	NUN BUOY
	TIDE STAFF
8	PROJECT DEPTH

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revised	Zone

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

Designed by: WRM
Drawn by: WRM
Rev. No.
Dated: OCT 2015
Chkd by: GR

XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
Reference files:
15-191-c4Sb4RDR.DGN
File name:
15-191-VH001.DGN

JACKSONVILLE HARBOR, FLORIDA
4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1 / 22

SHEET 01 OF 57

Y 2,203,000
Y 2,203,500
Y 2,204,000
Y 2,204,500
Y 2,205,000
Y 2,205,500
X 545,000
X 545,500
X 546,000
X 546,500
X 547,000
X 547,500
X 548,000

RGE. 400
RGE. 00
RGE. -400

MATCHLINE SHEET NO. 005 STA. 90+00

STA. 85+00
STA. 80+00
STA. 75+00
STA. 70+00
STA. 65+00

ATLANTIC OCEAN
BAR CUT-3

MATCHLINE SHEET NO. 003 STA. 60+00

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 15-191.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 60+00 THRU STA. 90+00 BAR CUT-3

PLAN

Scale: AS SHOWN

Drawing no. 2 / 22

SHEET 04 OF 57

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-SOUN_BC3.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-004.DGN
File name:

Designed by: WRM	Ckd by: GR
DWN by: WRM	
Inv. No.	
Dated: OCT 2015	

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (10/15)	542,726	2,203,732	30°23'41.70"	81°21'35.20"
LT. BUOY-4 (10/15)	542,736	2,204,957	30°23'53.83"	81°21'35.25"

MATCHLINE SHEET NO. 006 STA. 120+00

MATCHLINE SHEET NO. 004 STA. 90+00

RGE. -400

RGE. 00

RGE. 400

STA. 115+00

STA. 110+00

STA. 105+00

STA. 100+00

STA. 95+00

X 547,000

X 546,500

X 546,000

X 545,500

X 545,000

Y 2,203,500

Y 2,204,000

Y 2,204,500

Y 2,205,000

Y 2,205,500

Y 2,206,000

R-4"

G-3"

ST. JOHNS RIVER

BAR CUT-3

GRAPHIC SCALE
100' 0 100' 200'

N

NOTES:
1. REFER TO SURVEY NO. 15-191.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 90+00 THRU STA. 120+00 BAR CUT-3

PLAN

Scale: AS SHOWN

Drawing no. 3 / 22

SHEET 05 OF 57

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-NAV.DGN
15-191-V-SOUN_BC3.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-005.DGN
File name:

Designed by: WRM	Ckd by: GR
DWN by: WRM	
Inv. No.	
Dated: OCT 2015	

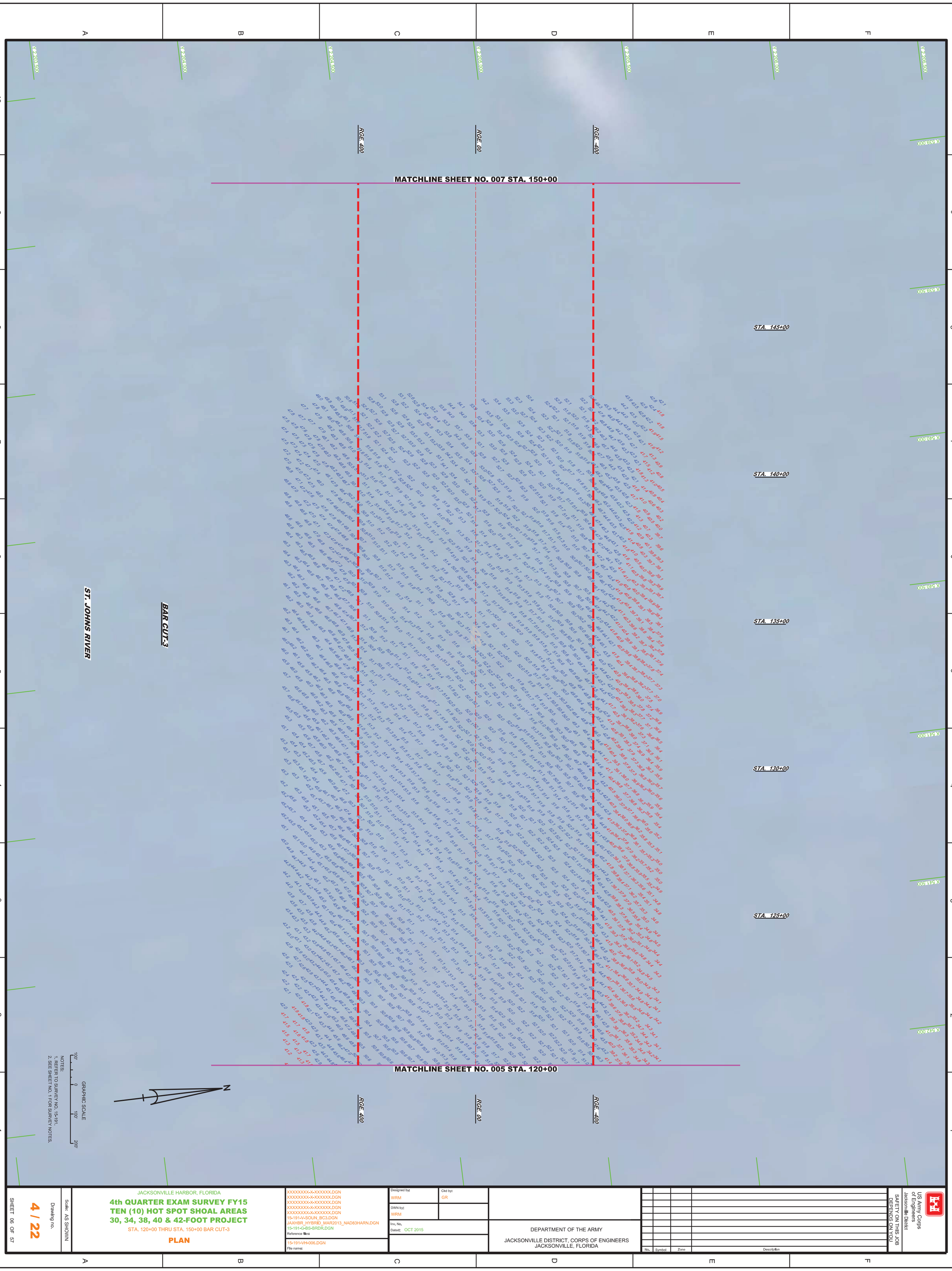
DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU



JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 120+00 THRU STA. 150+00 BAR CUT-3

PLAN

Scale: AS SHOWN

Drawing no. **4 / 22**

SHEET 06 OF 57

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-SOUN_BC3.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-006.DGN
File name:

Designed by: WRM
Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-7 (10/15)	535,008	2,204,874	30°23'52.76"	81°23'03.49"
LT. BUOY-8 (10/15)	535,320	2,205,742	30°24'01.36"	81°22'59.95"

MATCHLINE SHEET NO. 009 STA. 210+00

MATCHLINE SHEET NO. 007 STA. 180+00

RGE. 380

RGE. 00

RGE. -380

RGE. 400

RGE. 00

RGE. -400

40-FOOT PROJECT

42-FOOT PROJECT

STA. 205+00

STA. 200+00

STA. 195+00

STA. 190+00

STA. 185+00

BAR CUT-3

ATLANTIC OCEAN

G "7"

R "8"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 15-191.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15

TEN (10) HOT SPOT SHOAL AREAS

30, 34, 38, 40 & 42-FOOT PROJECT

STA. 180+00 THRU STA. 210+00 BAR CUT-3

PLAN

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXX-X-XXXXX.DGN
15-191-V-NAV.DGN
15-191-V-SOUN_BC3.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-008.DGN
File name:

Designed by: WRM | Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

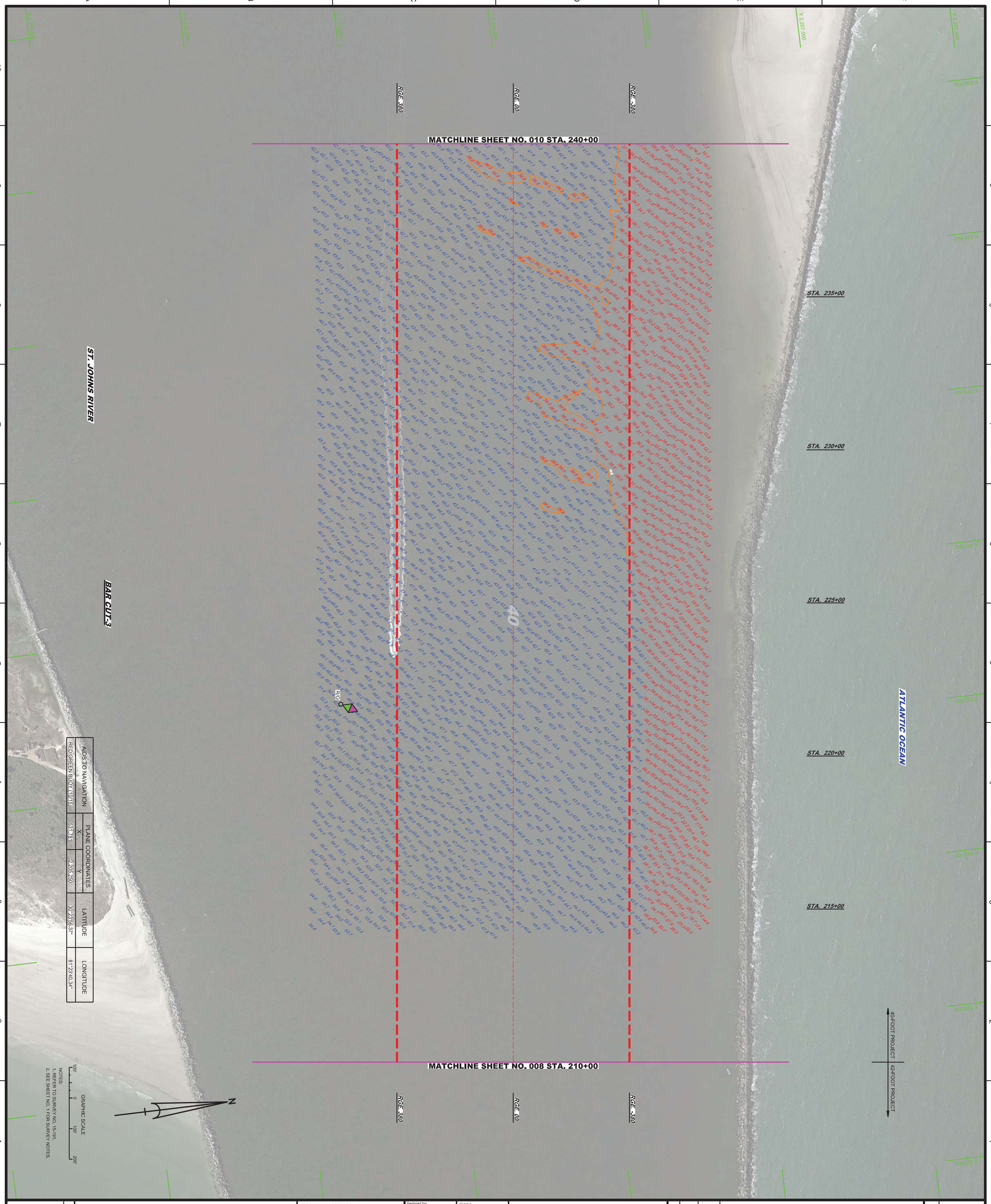
US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

Scale: AS SHOWN

Drawing no. **5 / 22**

SHEET 08 OF 57



JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 210+00 THRU STA. 240+00 BAR CUT-3

PLAN

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-CON40.DGN
15-191-V-NAV.DGN
15-191-V-SOUN_BC3.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-009.DGN
File name:

Designed by:	WRM
Ckd by:	GR
DWN by:	WRM
Inv. No.	
Dated:	OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

Scale: AS SHOWN

Drawing no. 6 / 22

SHEET 09 OF 57

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-10 (10/15)	529,326	2,206,526	30°24'08.91"	81°24'08.43"

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 15-191.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 240+00 THRU STA. 270+00 BAR CUT-3

PLAN

Scale: AS SHOWN

Drawing no. 7 / 22

SHEET 10 OF 57

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-CON40.DGN
15-191-V-NAV.DGN
15-191-V-SOUN_BC3.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-010.DGN
File name:

Designed by: WRM
Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 270+00 THRU STA. 298+00 BAR CUT-3

PLAN

Scale: AS SHOWN

Drawing no. 8 / 22

SHEET 11 OF 57

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-NAV.DGN
15-191-V-CON40.DGN
15-191-V-SOUN_C4.DGN
15-191-V-SOUN_BC3.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-011.DGN
File name:

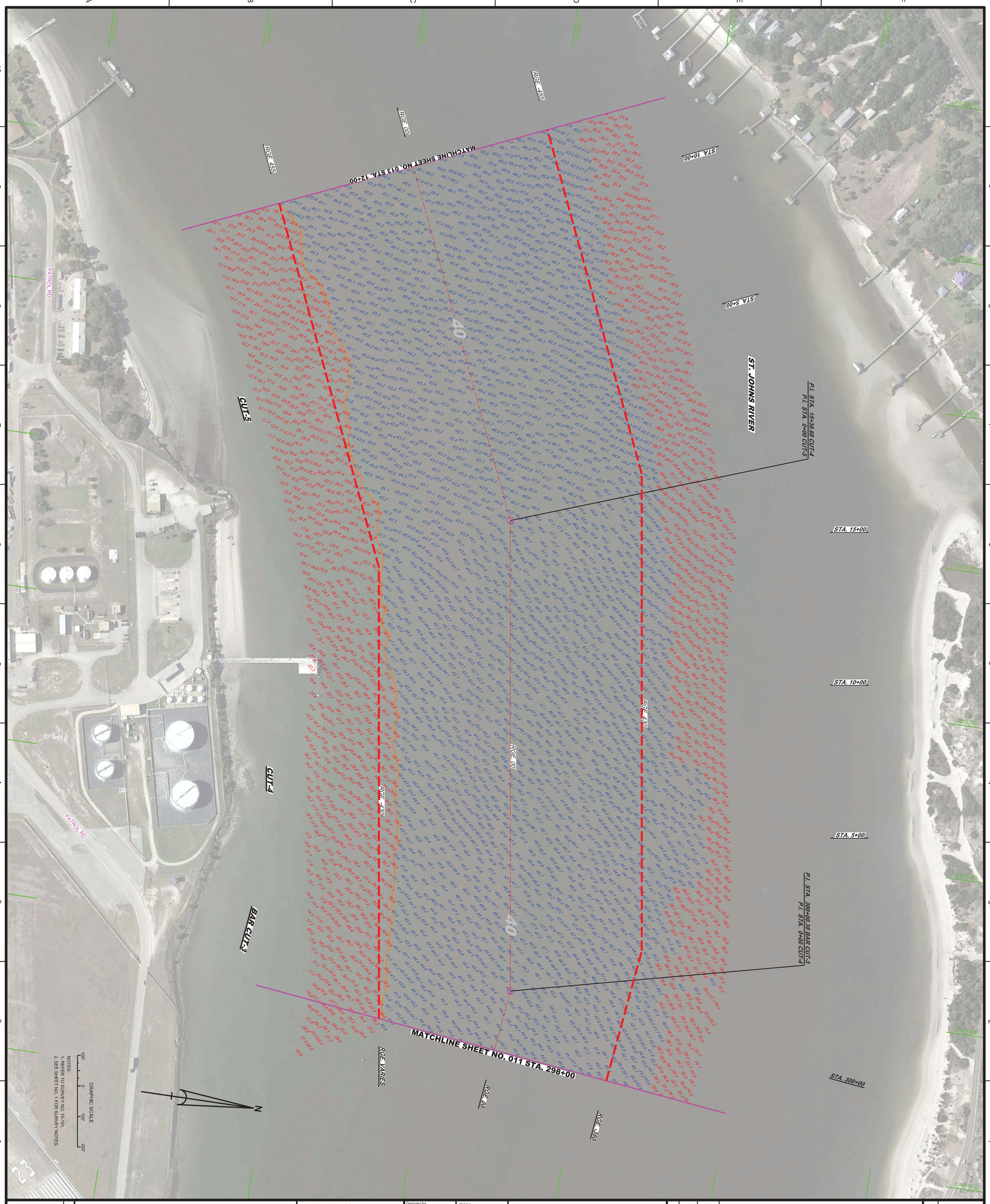
Designed by: WRM
Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU



JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 298+00 BAR CUT-3 THRU STA. 12+00 CUT-5

PLAN

Scale: AS SHOWN

Drawing no. 9 / 22

SHEET 12 OF 57

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-CON40.DGN
15-191-V-SOUN_C5.DGN
15-191-V-SOUN_C4.DGN
15-191-V-SOUN_BC3.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-012.DGN
File name:

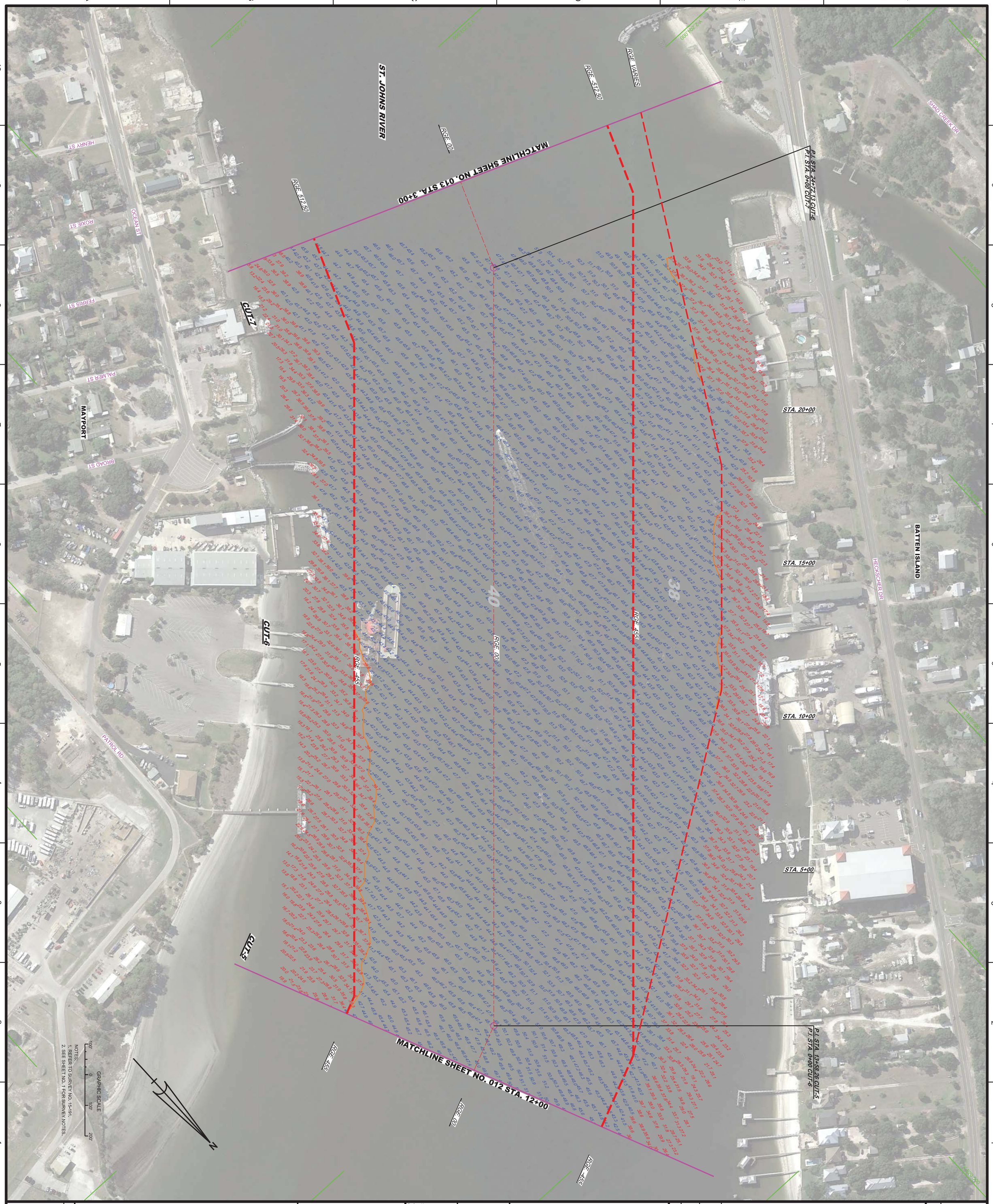
Designed by: WRM
Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU



JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 12+00 CUT-5 THRU STA. 3+00 CUT-7

PLAN

Scale: AS SHOWN

Drawing no. **10 / 22**

SHEET 13 OF 57

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-CON38.DGN
15-191-V-CON40.DGN
15-191-V-SOUN_C6.DGN
15-191-V-SOUN_C5.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-013.DGN
File name:

Designed by:	Ckd by:
WRM	GR
DWN by:	
WRM	

Inv. No.
Dated: OCT 2015

DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY 20 (10/15)	516,910	2,199,987	30°23'03.73"	81°26'29.92"

MATCHLINE SHEET NO. 016 STA. 10+00

MATCHLINE SHEET NO. 014 STA. 5+00

P.I. STA. 24+66.40 CUT-8
P.I. STA. 0+00 CUT-9

R=20'

CUT-9

CUT-8

410

STA. 5+00

STA. 20+00

STA. 15+00

STA. 10+00

RGE. 312.50

RGE. 00

RGE. -312.50

RGE. VARIES

ST. JOHNS RIVER

A1A

PERIMETER RD

HECKSCHER DR

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 15-191.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 5+00 CUT-8 THRU STA. 10+00 CUT-9

PLAN

Scale: AS SHOWN

Drawing no. **11 / 22**

SHEET 15 OF 57

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-CON40.DGN
15-191-V-NAV.DGN
15-191-V-SOUN_C8.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-015.DGN
File name:

Designed by: WRM
Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

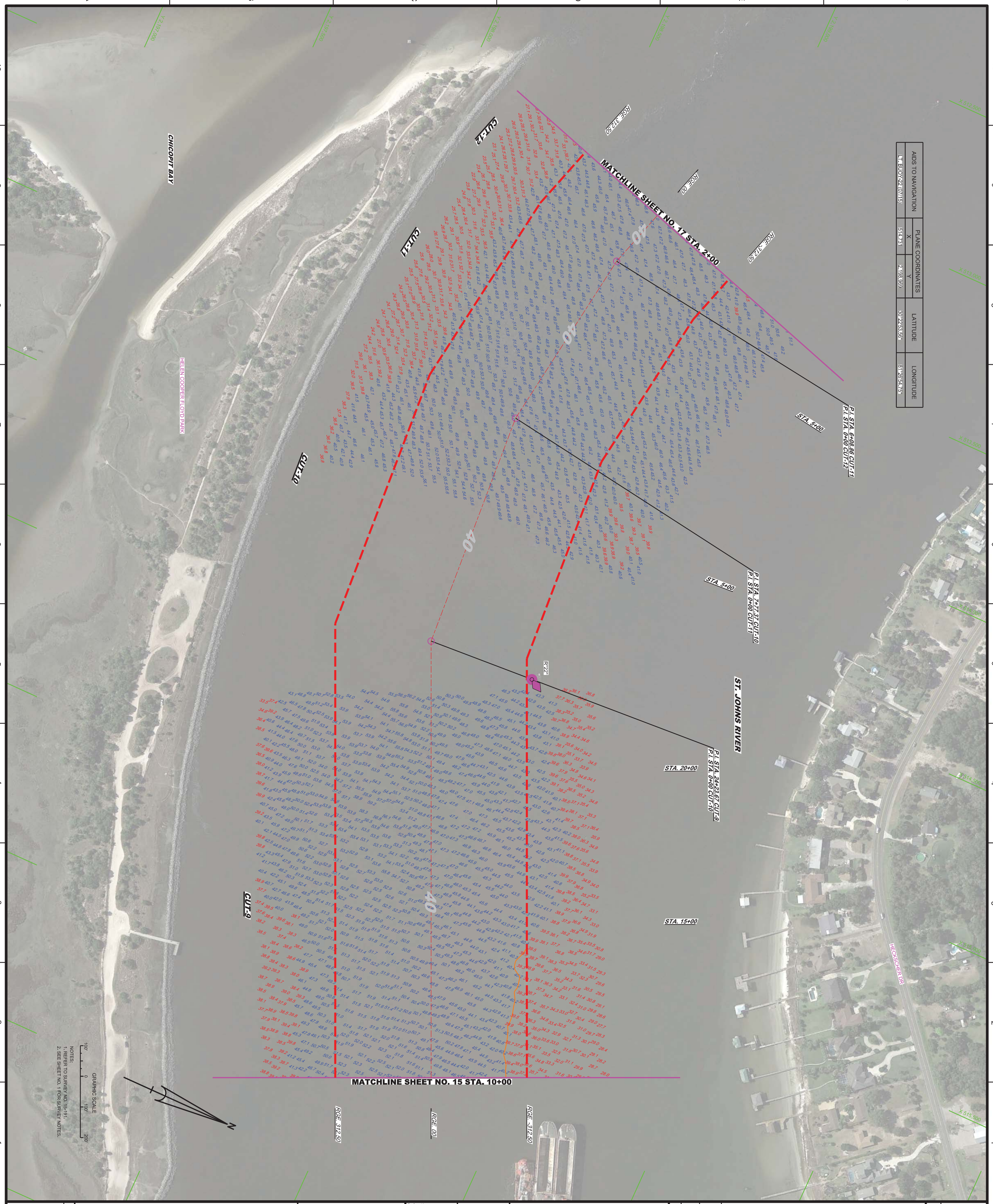
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

No.	Symbol	Zone	Description

SAFETY ON THIS JOB DEPENDS ON YOU

US Army Corps of Engineers
Jacksonville District

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY 22 (07/15)	514,731	2,198,969	30°22'53.56"	81°26'54.75"



JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 10+00 CUT-9 THRU STA. 2+00 CUT-12

PLAN

Scale: AS SHOWN

Drawing no. **12 / 22**

SHEET 16 OF 57

XXXXXXXX-X-XXXX.DGN
XXXXXXXX-X-XXXX.DGN
15-191-V-CON40.DGN
15-191-V-NAV.DGN
15-191-V-SOUN_C11-12.DGN
15-191-V-SOUN_C8.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-V-H-016.DGN
File name:

Designed by:	Ckd by:
WRM	GR
DWN by:	
WRM	

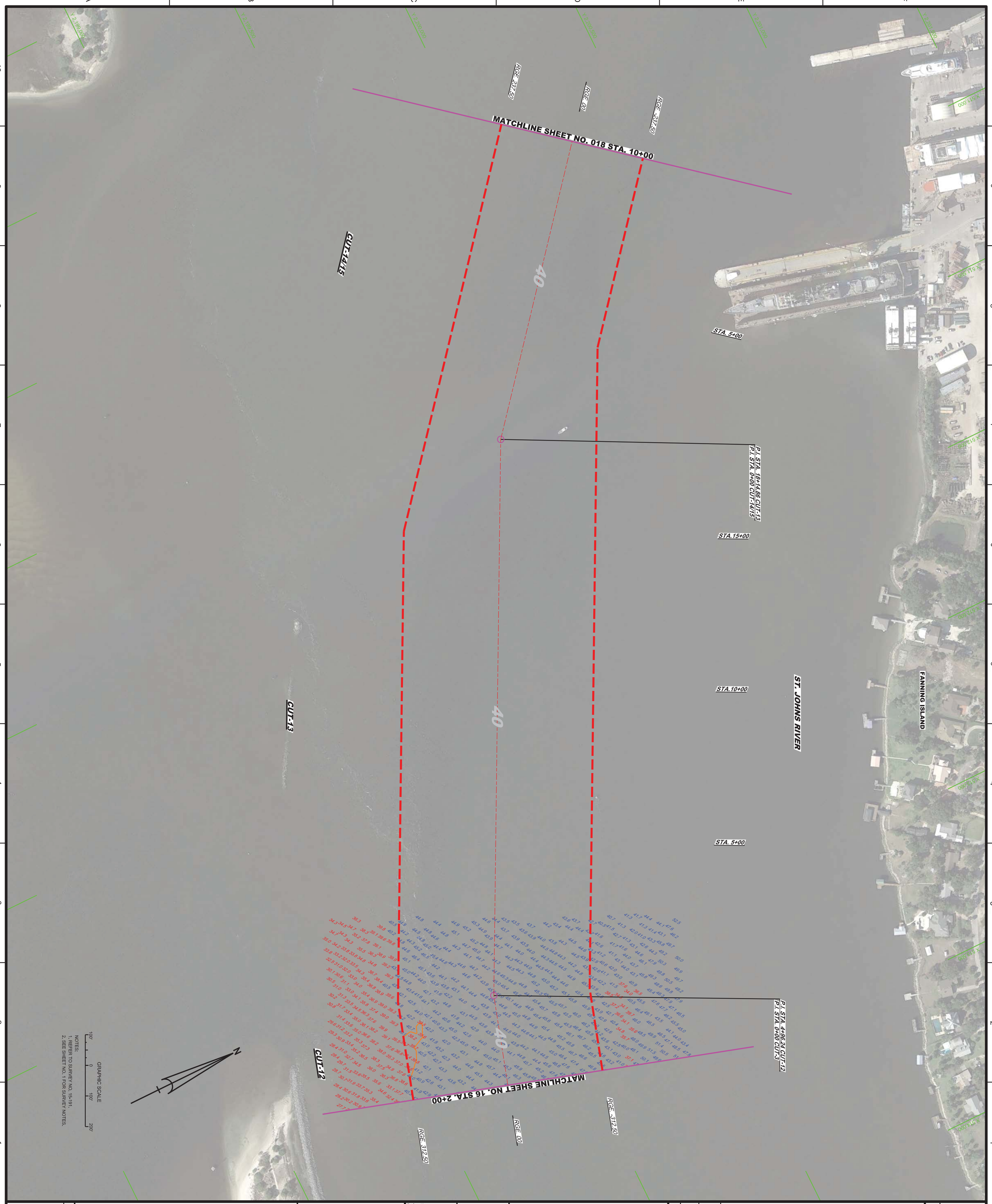
Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU



JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 2+00 CUT-12 THRU STA. 10+00 CUT14/15

PLAN

Scale: AS SHOWN

Drawing no. **13 / 22**

SHEET 17 OF 57

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXX-X-XXXXX.DGN
15-191-V-CON40.DGN
15-191-V-SOUN_C11-12.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-017.DGN
File name:

Designed by: WRM	Ckd by: GR
DWN by: WRM	
Inv. No.	
Dated: OCT 2015	

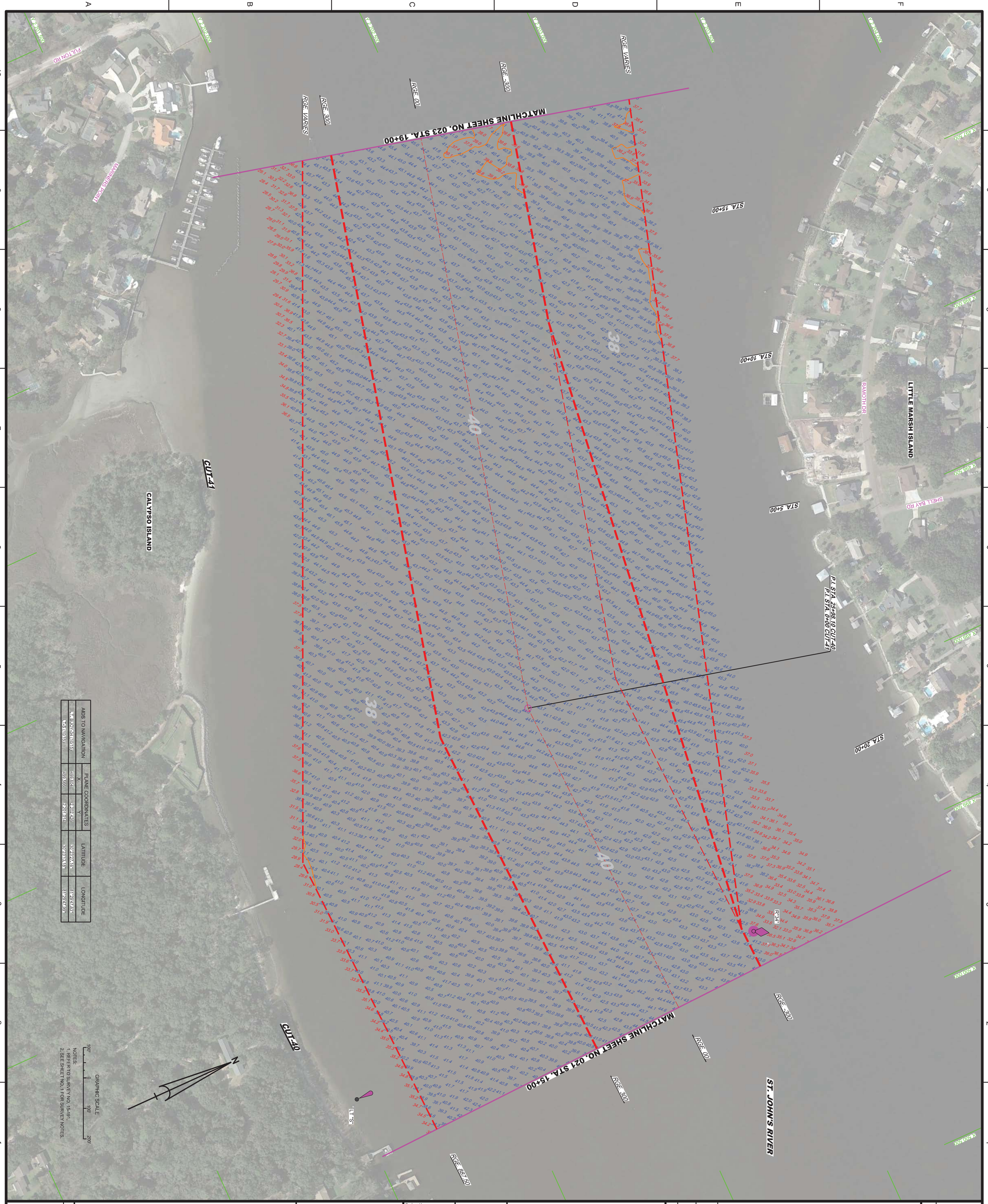
DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU



NOTES:
1. REFER TO SURVEY NO. 15-191.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT "S" (10/15)	499,566	2,201,014	30°23'13.18"	81°29'47.99"
LT "BUOY 34" (10/15)	499,604	2,202,426	30°23'27.16"	81°29'47.83"

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 15+00 CUT-40 THRU STA. 19+00 CUT-41

PLAN

Scale: AS SHOWN

Drawing no. 14 / 22

SHEET 22 OF 57

XXXXXXXX-X-XXXXXX.DGN
15-191-V-NAV.DGN
15-191-V-CON38.DGN
15-191-V-CON40.DGN
15-191-V-SOUN_C41.DGN
15-191-V-SOUN_C40.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-022.DGN
File name:

Designed by: WRM
Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

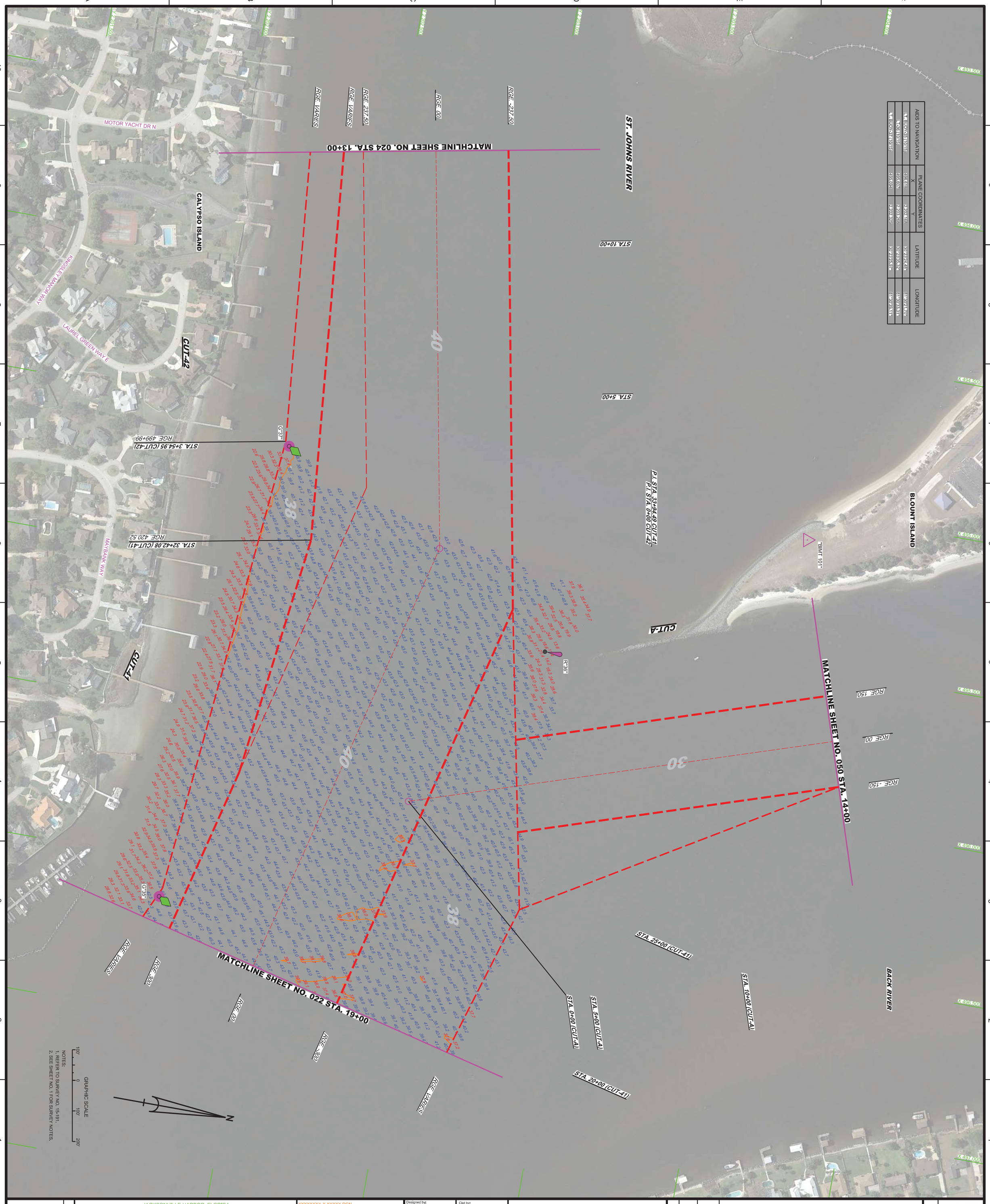
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-35 (10/15)	496,618	2,202,168	30°23'22.48"	81°30'21.70"
L-35 (10/15)	495,607	2,203,428	30°23'35.84"	81°30'33.31"
LT. BUOY-37 (10/15)	495,004	2,202,325	30°23'25.97"	81°30'39.11"



NOTES:
1. REFER TO SURVEY NO. 15-191.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 19+00 CUT-41 THRU STA 13+00 CUT-42 &
STA. 0+00 THRU STA. 14+00 CUT-A

PLAN

Scale: AS SHOWN

Drawing no. **15 / 22**

SHEET 23 OF 57

XXXXXXXX-X-XXXXX.DGN
XXXXXXXX-X-XXXXX.DGN
15-191-V-NAV.DGN
15-191-V-CON38.DGN
15-191-V-CON40.DGN
15-191-V-SOUN_C41.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-023.DGN
File name:

Designed by:	Ckd by:
WRM	GR
DWN by:	
WRM	

Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 103+00 THRU STA. 133+00 CUT-42

PLAN

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-CON40.DGN
15-191-V-SOUN_C42.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-027.DGN
File name:

Designed by: WRM
Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

Scale: AS SHOWN

Drawing no.

16 / 22

SHEET 27 OF 57

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-T (10/15)	481,406	2,201,933	30°23'21.44"	81°33'15.37"

MATCHLINE SHEET NO. 029 STA. 7+00

MATCHLINE SHEET NO. 027 STA. 133+00

MATCHLINE SHEET NO. 054 STA. 70+00

ST. JOHNS RIVER

DAMES POINT BRIDGE

I-295

MCDOWELL ST

BLOUNT ISLAND

CUT-43

CUT-42

CUT-G

P.I. STA. 152+45.88 CUT-42
P.I. STA. 0+00 CUT-43

P.I. STA. 142+65.91 CUT-42
P.I. STA. 89+71.50 CUT-G

STA. 5+00

STA. 45+00

STA. 60+00

STA. 75+00

RGE. -87.50

RGE. 0

RGE. -237.50

RGE. 237.50

RGE. 00

RGE. -150

RGE. 00

RGE 150

40

38

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 15-191.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 133+00 CUT-42 THRU STA. 7+00 CUT-43 AND
STA. 70+00 THRU STA. 89+71.30 CUT-G

PLAN

XXXXXXXX-X-XXXXX.DGN
XXXXXXXX-X-XXXXX.DGN
15-191-V-NAV.DGN
15-191-V-CON38.DGN
15-191-V-CON40.DGN
15-191-V-SOUN_C42.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-028.DGN
File name:

Designed by: WRM
Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

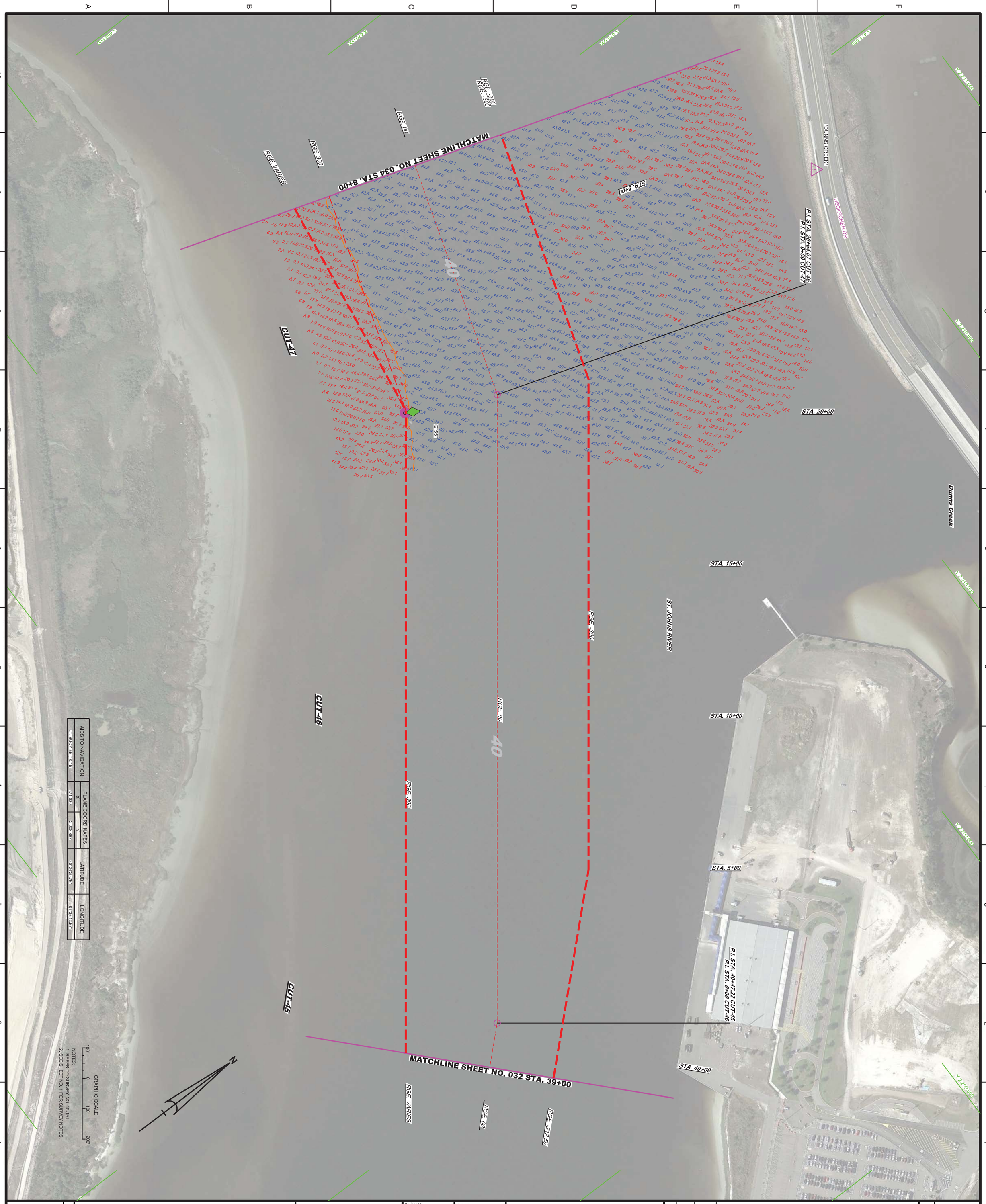
US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

Scale: AS SHOWN

Drawing no. 17 / 22

SHEET 28 OF 57



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY "55" (1015)	471,089	2,208,887	30°24'29.76"	81°35'13.57"

NOTES:
1. REFER TO SURVEY NO. 15-191.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 39+00 CUT-45 THRU STA. 8+00 CUT-47

PLAN

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-NAV.DGN
15-191-V-CON40.DGN
15-191-V-SOUN_C47-48.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-091-VH-139.DGN
File name:

Designed by: WRM
Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

Scale: AS SHOWN

Drawing no. **18 / 22**

SHEET 33 OF 57

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
FL BUOY 57 (10 NM)	468,600	2,208,110	30°24'31.88"	81°26'41.88"

MATCHLINE SHEET NO. 035 STA. 10+00

MATCHLINE SHEET NO. 033 STA. 8+00

P.I. STA. 13+45.42 CUT-48
P.I. STA. 0+00 CUT-49

P.I. STA. 14+95.67 CUT-47
P.I. STA. 0+00 CUT-48

CUT-49

CUT-48

CUT-47

G"57"

STA. 5+00

STA. 10+00

STA. 5+00

STA. 10+00

ST. JOHNS RIVER

HECKSCHER DR

RGE. 300

RGE. 00

RGE. -300

RGE. VARIES

RGE. 00

RGE. 00

RGE. -300

40

40

40

X 467,500

X 468,000

X 468,500

X 469,000

X 469,500

X 470,000

X 470,500

Y 2,208,000

Y 2,208,500

Y 2,209,000

Y 2,209,500

Y 2,210,000

Y 2,210,500

N

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 15-191.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 8+00 CUT-47 THRU STA. 10+00 CUT-49

PLAN

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-CON40.DGN
15-191-V-NAV.DGN
15-191-V-SOUN_C47-48.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-034.DGN
File name:

Designed by: WRM
Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

Scale: AS SHOWN

Drawing no. 19 / 22

SHEET 34 OF 57

MATCHLINE SHEET NO. 036 STA. 15+00

RGE. 200'

RGE. 00'

RGE. -200'

R"58"

G"59"

STA.10+00

STA. 5+00

STA. 20+00

STA. 15+00

CUT-50

CUT-49

40'

ST. JOHNS RIVER

P.I. STA. 20+41.57 CUT-49
P.I. STA. 0+40 CUT-50

MATCHLINE SHEET NO. 034 STA. 10+00

RGE. 300'

RGE. 00'

RGE. -300'

X 465,000

X 465,500

X 466,000

X 466,500

X 467,000

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY "58" (10'/15')	465,559	2208,445	30°24'25.10"	81°36'16.70"
LT. BUOY "59" (10'/15')	466,233	2208,786	30°24'23.56"	81°36'08.85"

NOTES:
1. REFER TO SURVEY NO. 15-191.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

GRAPHIC SCALE
100' 0 100' 200'

N

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 10+00 CUT-49 THRU STA. 15+00 CUT-50

PLAN

Drawing no. 20 / 22

SHEET 35 OF 57

Scale: AS SHOWN

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-CON40.DGN
15-191-V-NAV.DGN
15-191-V-SOUN_C50.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-035.DGN
File name:

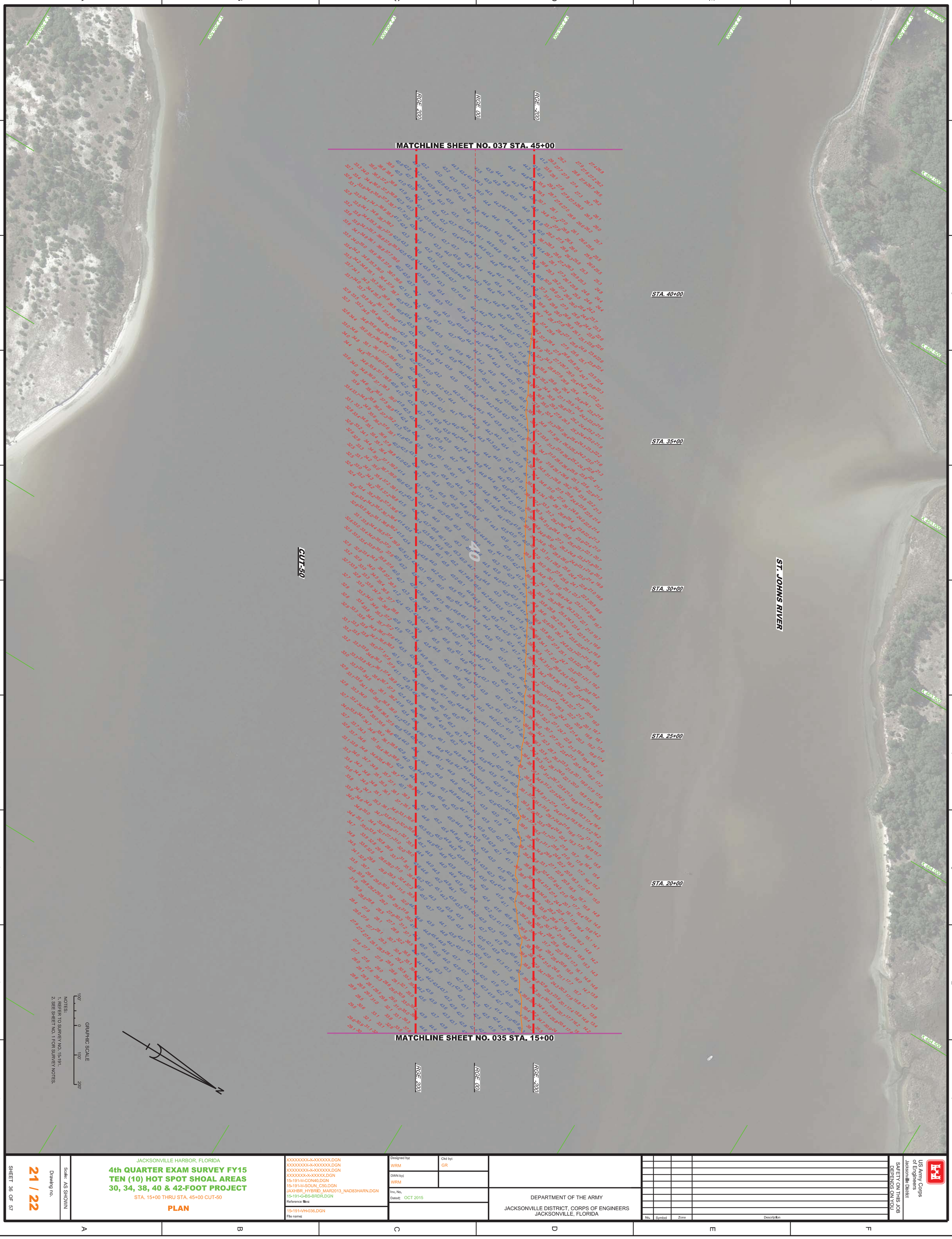
Designed by: WRM
Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU



JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 15+00 THRU STA. 45+00 CUT-50

PLAN

Scale: AS SHOWN

Drawing no. 21 / 22

SHEET 36 OF 57

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXX-X-XXXXX.DGN
15-191-V-CON40.DGN
15-191-V-SOUN_C50.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-036.DGN
File name:

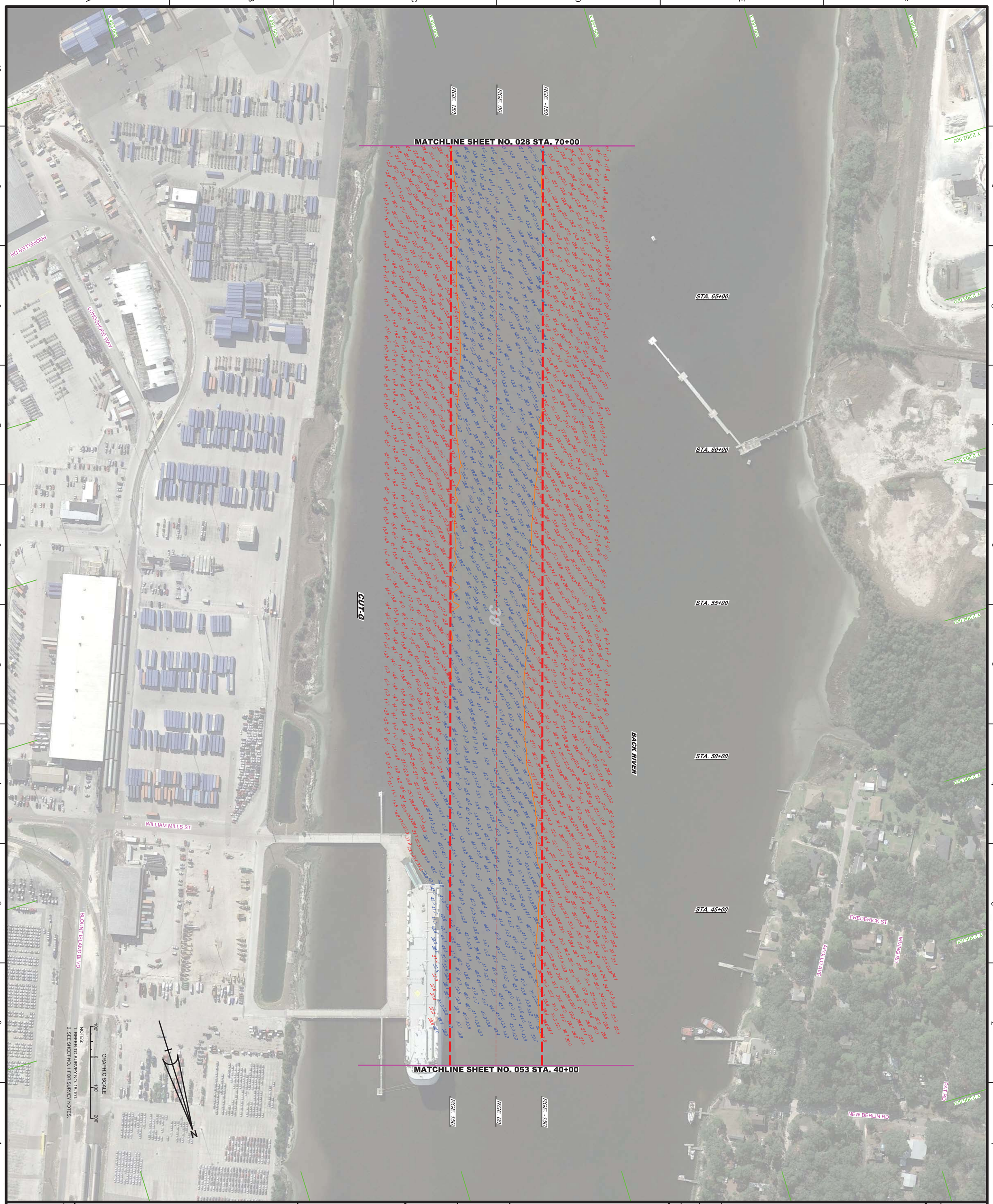
Designed by: WRM
Ckd by: GR
DWN by: WRM
Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU



NOTES:
1. REFER TO SURVEY NO. 15-191.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

JACKSONVILLE HARBOR, FLORIDA

4th QUARTER EXAM SURVEY FY15
TEN (10) HOT SPOT SHOAL AREAS
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 40+00 THRU STA. 70+00 CUT-G

PLAN

Scale: AS SHOWN

Drawing no. 22 / 22

SHEET 57 OF 57

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
15-191-V-CON38.DGN
15-191-V-SOUN_CTG.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
15-191-G-BS-BRDR.DGN
Reference files:

15-191-VH-054.DGN
File name:

Designed by:	Ckd by:
WRM	GR
DWN by:	
WRM	

Inv. No.
Dated: OCT 2015

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU