

DESIGN AUTHENTICATION

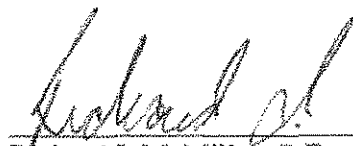
PROJECT: Ponce de Leon Inlet, Volusia County, FL (Maintenance Dredging Ponce de Leon Inlet with nearshore placement)

ATTACHED PLAN SHEETS: 1 through 24

The attached plans were prepared by the Jacksonville District, U.S. Army Corps of Engineers (USACE). The initials or signatures and registrations designations of the signatory below or that appear on these project documents are within the scope of employment as required by USACE Engineering Regulation 1110-1-8152, PROFESSIONAL REGISTRATION, 8 Aug 1995, and are not made in the individual capacity of the signatories.

USACE employee signatures are provided in support of the "Interagency Coordination Agreement for Civil Works Projects", signed 28 Feb 2006 by the Florida Department of Environmental Protection, the USACE Jacksonville District, and USACE Mobile District.

These plans are for permitting purposes only, and are not for construction.

  
Richard L. McMillen, P.E.  
Chief, Navigation Branch  
Operations Division

GA # 23351

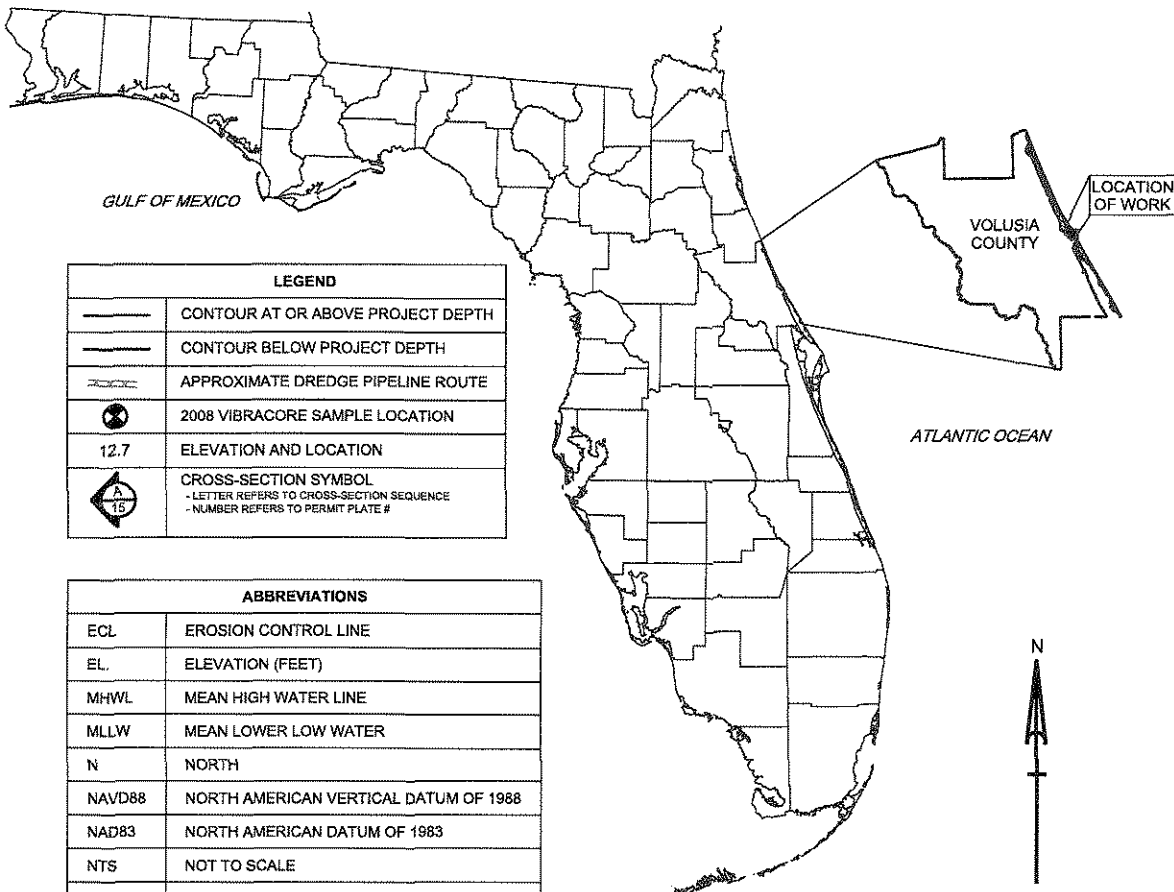
  
DATE

PERMIT # 308009001

# PONCE DE LEON INLET VOLUSIA COUNTY, FLORIDA MAINTENANCE DREDGING, 12-FOOT PROJECT

## INDEX TO PLATES

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US Army Corps  
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Jacksonville District

**WQC PLATES**  
NOT FOR CONSTRUCTION

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

FILE NAME:

DATED:

FEBRUARY 2012

SCALE:

AS SHOWN

DWN BY:

GMK

DSN BY:

GMK/SR

CKD BY:

SR

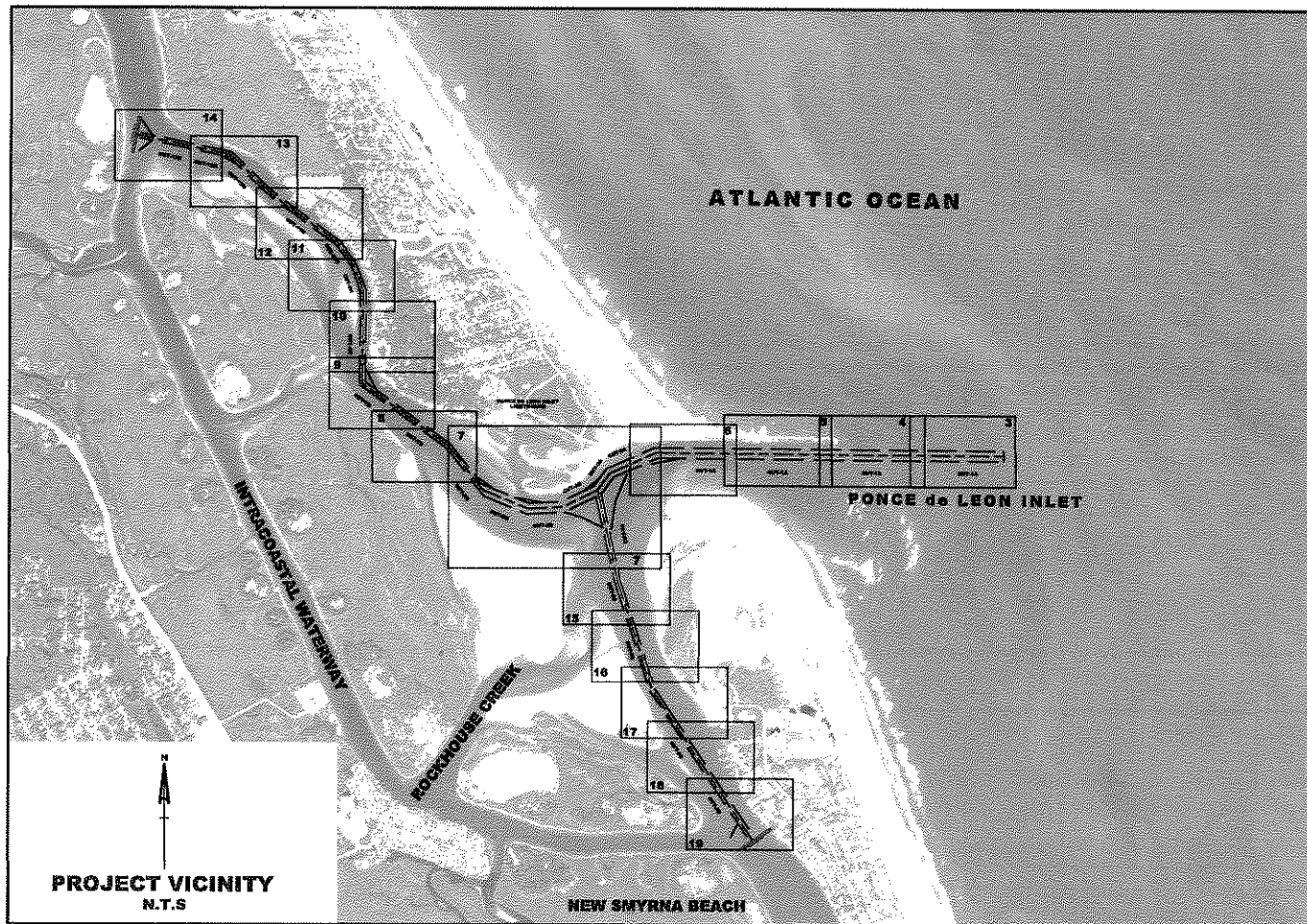
GENERAL NOTES:

VOLUSIA COUNTY, FL

**MAINTENANCE DREDGING  
PONCE DE LEON INLET  
PROJECT COVER SHEET,  
LEGEND, AND INDEX**

PLATE:

**01**



**DEP CONTROL MONUMENTS (NAD 83)**

**NORTH BEACH PLACEMENT LIMITS**

| MONUMENT | X         | Y          |
|----------|-----------|------------|
| T-140    | 677083.46 | 1730906.62 |
| T-141    | 677572.17 | 1730113.55 |
| R-142    | 678337.11 | 1729367.65 |
| R-143    | 678862.81 | 1728696.58 |
| R-144    | 679380.63 | 1727847.52 |
| R-145    | 679907.06 | 1727144.70 |
| R-146    | 680512.70 | 1726371.37 |
| T-147    | 681037.32 | 1725569.47 |
| R-148    | 681570.51 | 1724927.46 |

**DEP CONTROL MONUMENTS (NAD 83)**

**SOUTH BEACH PLACEMENT LIMITS**

| MONUMENT | X         | Y          |
|----------|-----------|------------|
| R-158    | 687901.63 | 1715414.08 |
| R-159    | 687374.93 | 1714513.21 |
| R-160    | 687826.04 | 1713632.23 |
| R-161    | 688252.54 | 1712768.15 |
| R-162    | 688737.25 | 1711945.21 |
| R-163    | 689102.51 | 1711005.81 |
| R-164    | 689605.27 | 1710198.76 |
| R-165    | 690044.83 | 1709340.91 |
| R-166    | 690494.33 | 1708374.78 |
| R-167    | 690958.46 | 1707515.31 |
| R-168    | 691344.19 | 1706783.51 |
| R-169    | 691704.98 | 1705871.95 |
| R-170    | 692201.48 | 1704983.18 |
| R-171    | 692593.82 | 1704126.75 |
| R-172    | 693175.80 | 1703327.40 |
| R-173    | 693550.02 | 1702537.29 |
| R-174    | 694020.97 | 1701679.25 |
| R-175    | 694473.85 | 1700852.03 |
| R-176    | 695003.64 | 1700036.26 |
| R-177    | 695454.77 | 1699145.70 |

**MAP SHEET NOTES:**

REFER TO SURVEY NUMBER: 10-170

ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MLLW OF THE 1983-2001 TIDAL EPOCH.

TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC GPS AND REFERENCED TO MLLW (Volusia-Brevard (w/ PortCanaveral)-07June2010.ktd).

ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.

PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).

THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

\*REFERENCE BASE LOCATED AT "872 1147 A"

NORTHING: 1719382.240'  
EASTING: 683175.104'  
NAVD83 ELEVATION: 2.63'

\*TIDE STAFF LOCATED FROM "872 1147 TIDAL 1"(4.90' MLLW)

VERTICAL MEASUREMENTS WERE MADE USING A ROSS SMART SOUNDER 635 FREQUENCY 28 KHZ AND 200 KHZ SINGLE BEAM TRANSDUCER.

| SURVEY VESSEL STATION | DATE OF SURVEY | CUT                  | BASE       |
|-----------------------|----------------|----------------------|------------|
| SB-32                 | 16 NOV 2010    | CUT 13N 5N CUT 3S 1S | 872 1147 A |
| SB-32                 | 17 NOV 2010    | CUT 3N 4N CUT 1A 3A  | 872 1147 A |
| SB-32                 | 18 NOV 2010    | CUT LONGITUDINALS    | 872 1147 A |

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.

SURVEY ACCURACY STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 02.

PERMIT # 308009001



US Army Corps of Engineers Jacksonville District

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

FILE NAME:

DATED:  
FEBRUARY 2012

SCALED:  
AS SHOWN

DWN BY:  
GMK

DSN BY:  
GMK/SR

CKD BY:  
SR

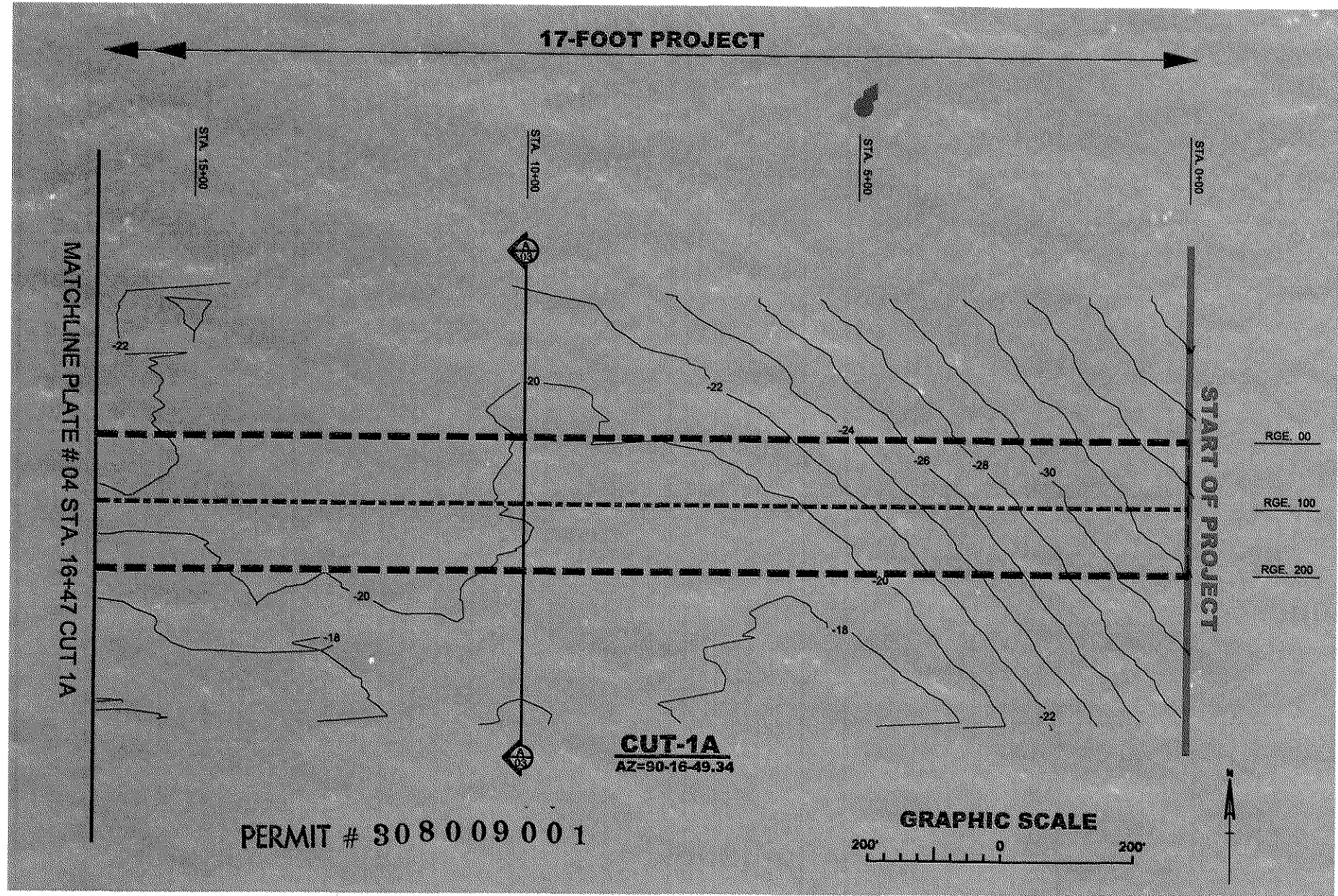
VOLUSIA COUNTY, FLORIDA

**MAINTENANCE DREDGING  
PONCE DE LEON INLET**

**PAGE LAYOUT  
AND SURVEY NOTES**

**PLATE:**

**02**



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**WQC PLATES**  
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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

FILE NAME:

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FEBRUARY 2012

SCALE:  
AS SHOWN

DWN BY:

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GMK/SR

CKD BY:  
SR

GENERAL NOTES:

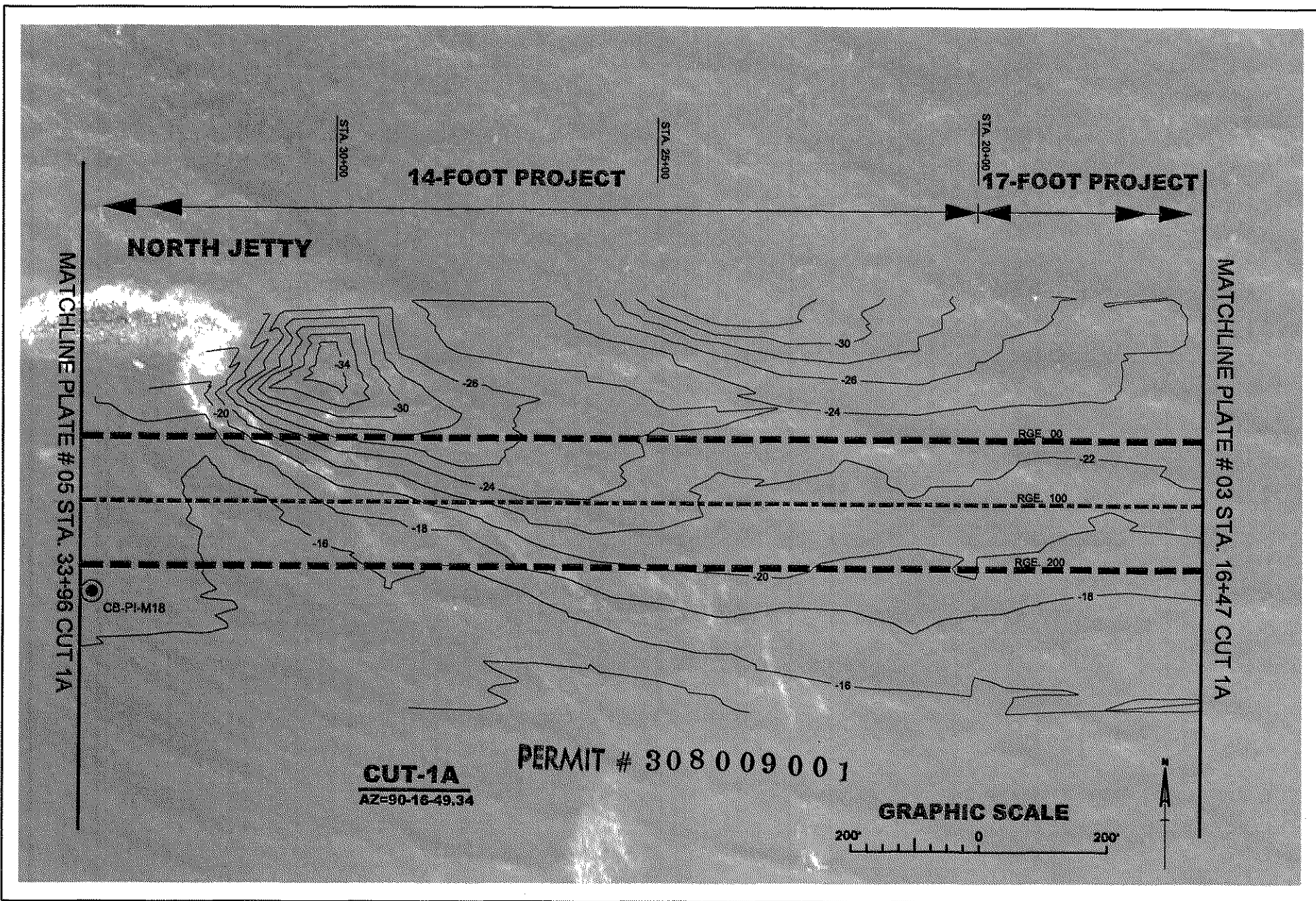
- CONTOURS SHOWN ARE AT 2 FOOT INTERVALS
- RED CONTOURS ARE ABOVE PROJECT DEPTH
- BLUE CONTOURS ARE BELOW PROJECT DEPTH

VOLUSIA COUNTY, FL

**MAINTENANCE DREDGING  
PONCE DE LEON INLET**

PLATE:

**03**



US Army Corps  
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Jacksonville District

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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

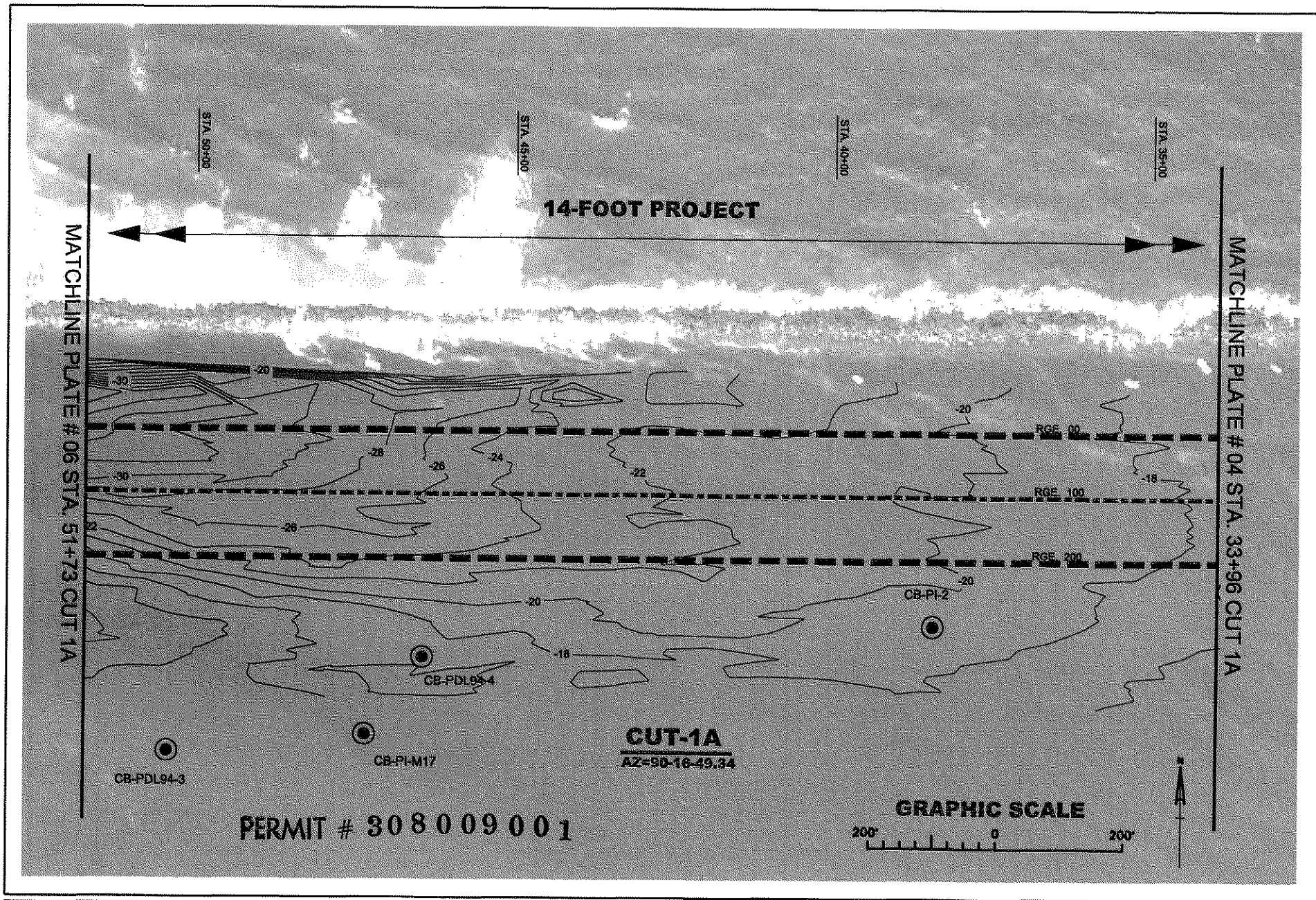
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| DATED:<br>FEBRUARY 2012 | DSN BY:<br>GMK/SR |
| SCALE:<br>AS SHOWN      | CKD BY:<br>SR     |

GENERAL NOTES:  
- CONTOURS SHOWN ARE AT 2 FOOT INTERVALS  
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VOLUSIA COUNTY, FL  
**MAINTENANCE DREDGING  
PONCE DE LEON INLET**

PLATE:

**04**



US Army Corps  
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Jacksonville District

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

FILE NAME:

DATED:

FEBRUARY 2012

SCALE:

AS SHOWN

DWN BY:

GMK

DSN BY:

GMK/SR

CKD BY:

SR

GENERAL NOTES:

- CONTOURS SHOWN ARE AT 2 FOOT INTERVALS
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VOLUSIA COUNTY, FL

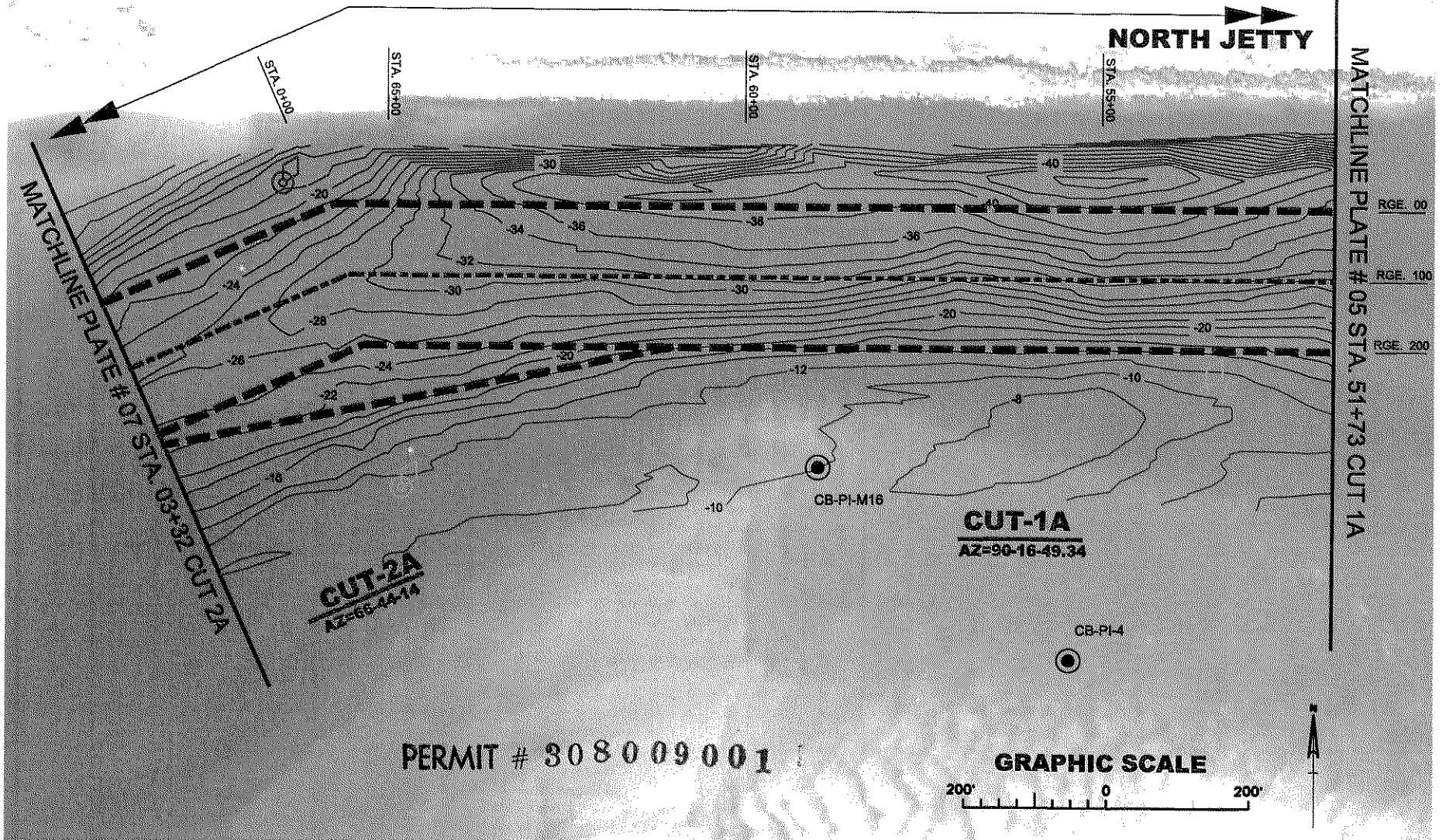
MAINTENANCE DREDGING  
PONCE DE LEON INLET

PLATE:

05

# 14-FOOT PROJECT

**NORTH JETTY**



US Army Corps  
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Jacksonville District

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NOT FOR CONSTRUCTION

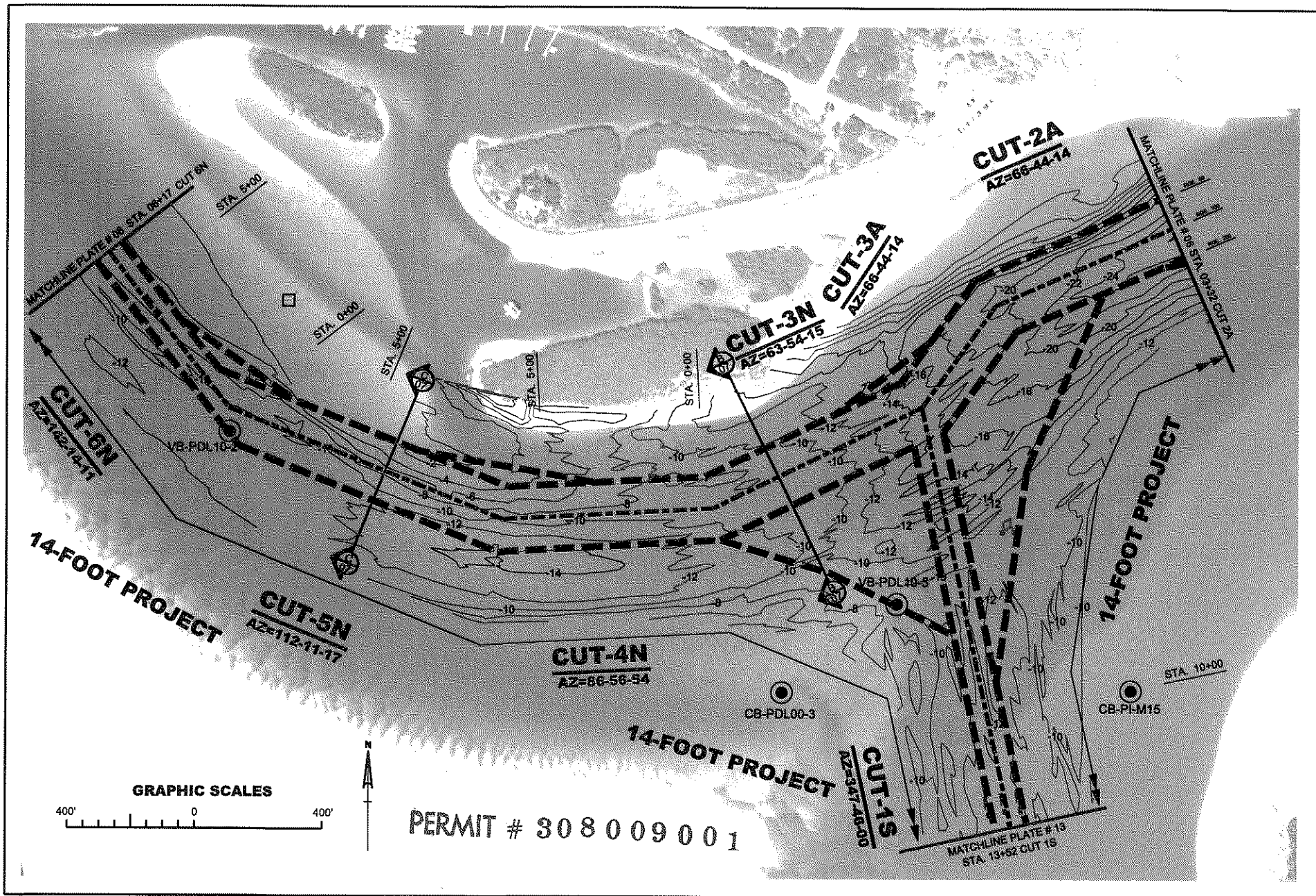
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

|                         |                   |
|-------------------------|-------------------|
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| DATED:<br>FEBRUARY 2012 | DSN BY:<br>GMK/SR |
| SCALE:<br>AS SHOWN      | CKD BY:<br>SR     |

GENERAL NOTES:  
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VOLUSIA COUNTY, FL  
**MAINTENANCE DREDGING  
PONCE DE LEON INLET**

PLATE:  
**06**



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Jacksonville District

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

FILE NAME:

DATED:

FEBRUARY 2012

SCALE:

AS SHOWN

OWN BY:

GMK

DSN BY:

GMK/SR

CKD BY:

SR

GENERAL NOTES:

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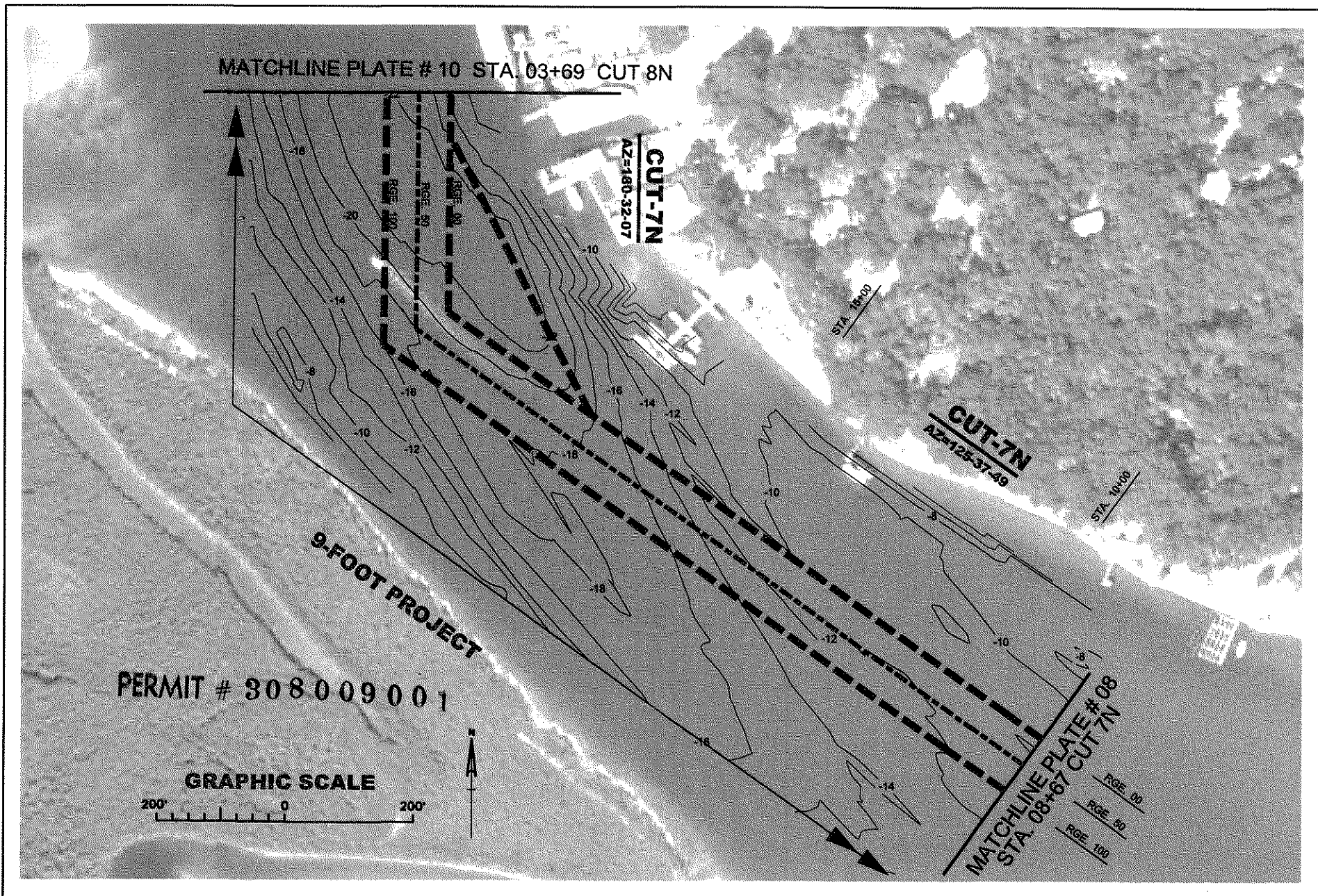
VOLUSIA COUNTY, FL

**MAINTENANCE DREDGING  
PONCE DE LEON INLET**

PLATE:

**07**





US Army Corps  
of Engineers  
Jacksonville District

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

FILE NAME:

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FEBRUARY 2012

SCALE:  
AS SHOWN

DWN BY:  
GMK

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GMK/SR

CKD BY:  
SR

GENERAL NOTES:

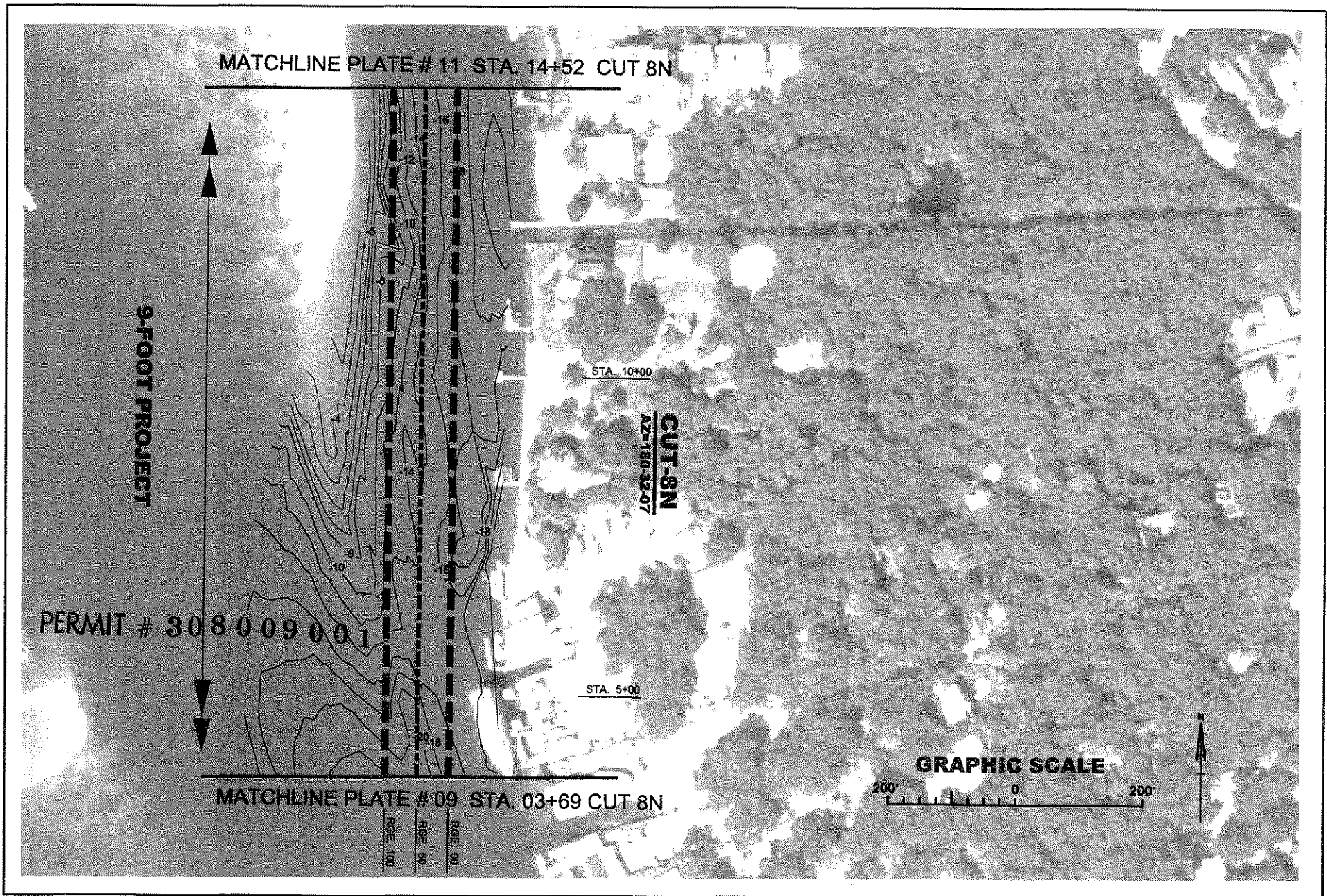
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VOLUSIA COUNTY, FL

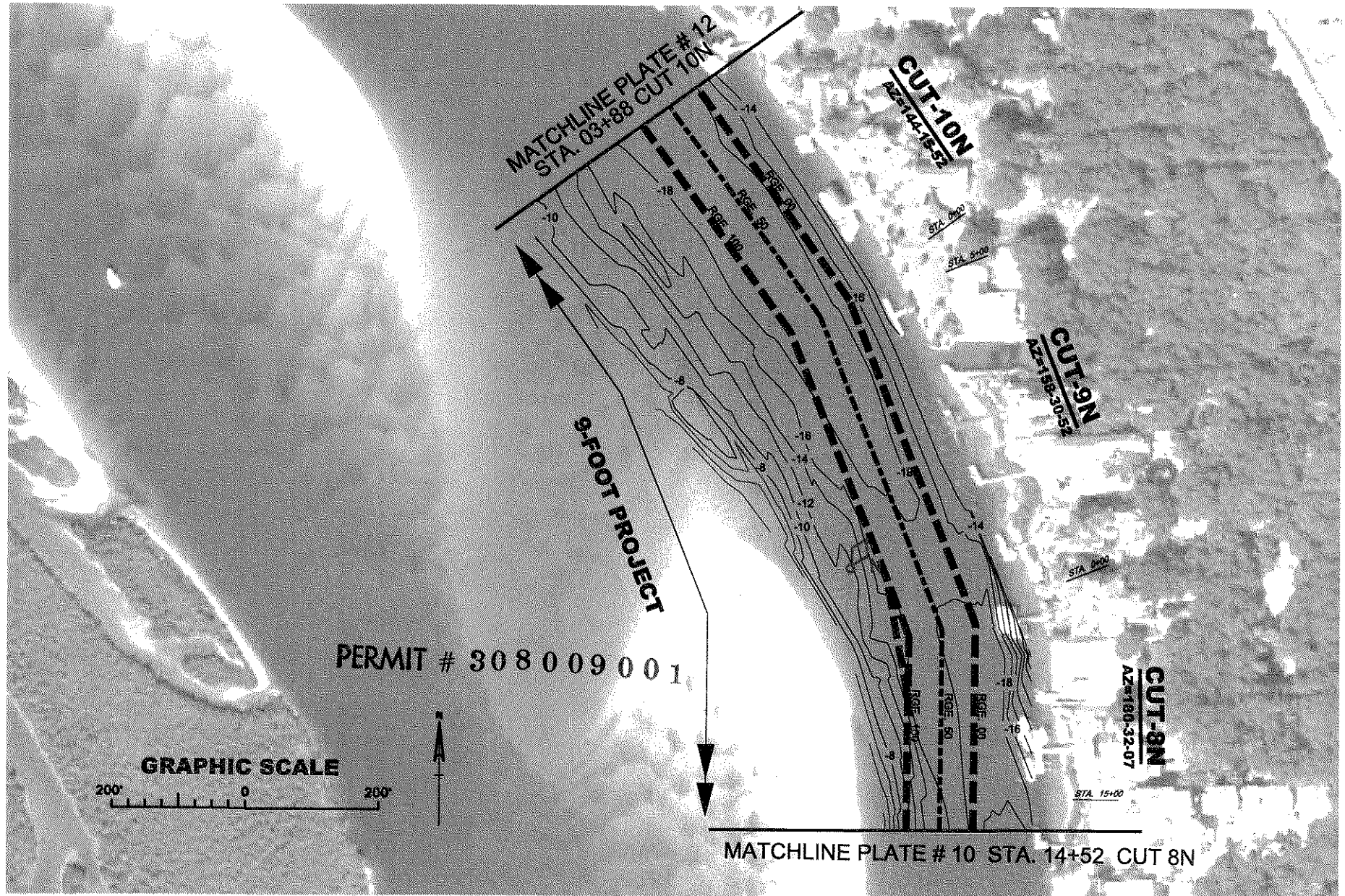
MAINTENANCE DREDGING  
PONCE DE LEON INLET

PLATE:

09



|                                                                                                                                               |                                                                                              |  |                                       |                                     |                                                                                                                                                 |                                                                               |                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--|---------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|
| <br>US Army Corps<br>of Engineers<br>Jacksonville District | <b>WQC PLATES</b><br>NOT FOR CONSTRUCTION                                                    |  | FILE NAME:<br>DATED:<br>FEBRUARY 2012 | DWN BY:<br>GMK<br>DSN BY:<br>GMK/SR | GENERAL NOTES:<br>- CONTOURS SHOWN ARE AT 2 FOOT INTERVALS<br>- RED CONTOURS ARE ABOVE PROJECT DEPTH<br>- BLUE CONTOURS ARE BELOW PROJECT DEPTH | VOLUSIA COUNTY, FL<br><br><b>MAINTENANCE DREDGING<br/>PONCE DE LEON INLET</b> | <b>PLATE:</b><br><br><b>10</b> |
|                                                                                                                                               | DEPARTMENT OF THE ARMY<br>JACKSONVILLE DISTRICT, CORPS OF ENGINEERS<br>JACKSONVILLE, FLORIDA |  | SCALE:<br>AS SHOWN                    | CKD BY:<br>SR                       |                                                                                                                                                 |                                                                               |                                |
|                                                                                                                                               |                                                                                              |  |                                       |                                     |                                                                                                                                                 |                                                                               |                                |



US Army Corps  
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Jacksonville District

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GENERAL NOTES:

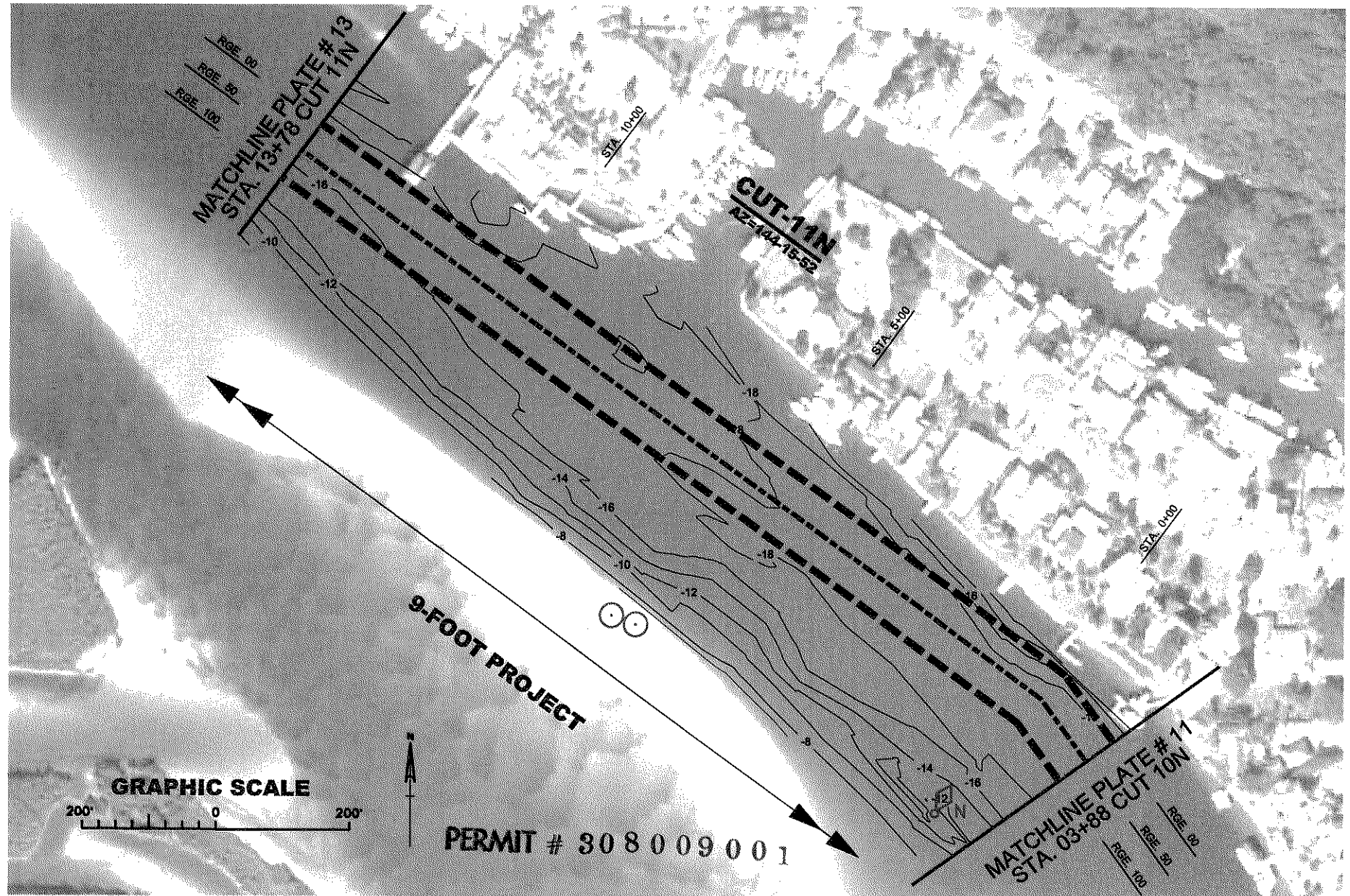
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VOLUSIA COUNTY, FL

**MAINTENANCE DREDGING  
PONCE DE LEON INLET**

PLATE:

**11**



US Army Corps  
of Engineers  
Jacksonville District

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

FILE NAME:

DATED:

FEBRUARY 2012

SCALE:

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GENERAL NOTES:

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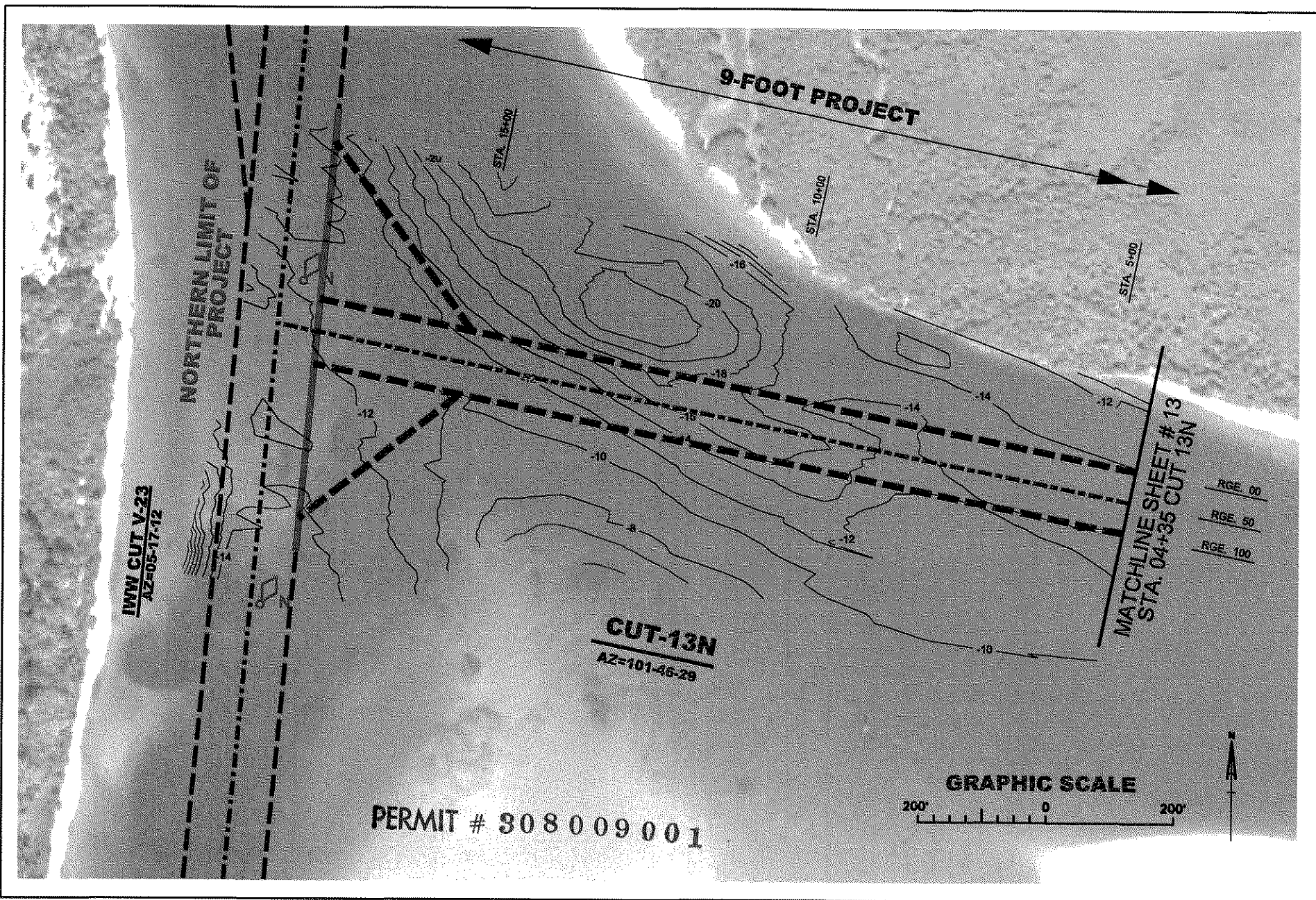
VOLUSIA COUNTY, FL

**MAINTENANCE DREDGING  
PONCE DE LEON INLET**

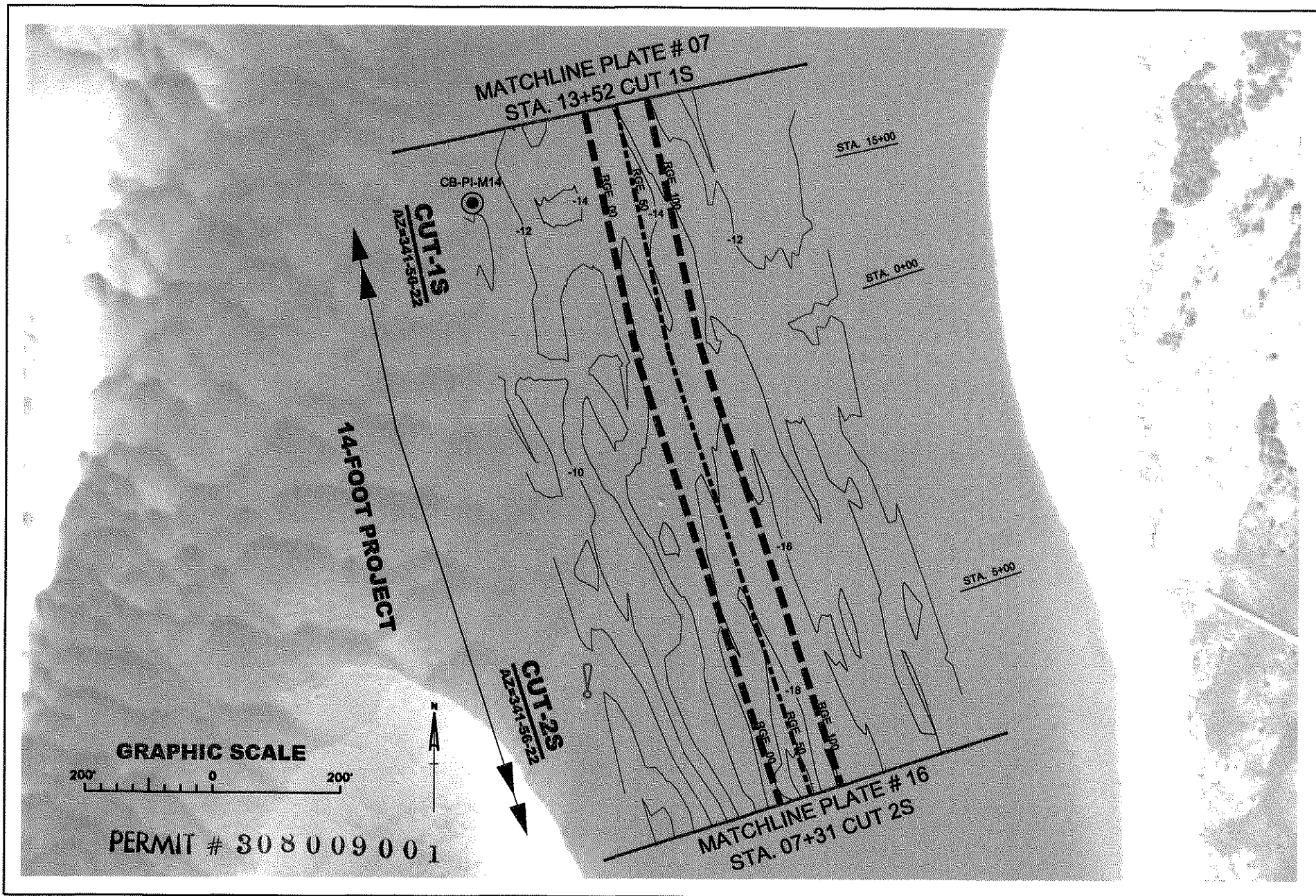
PLATE:

**12**

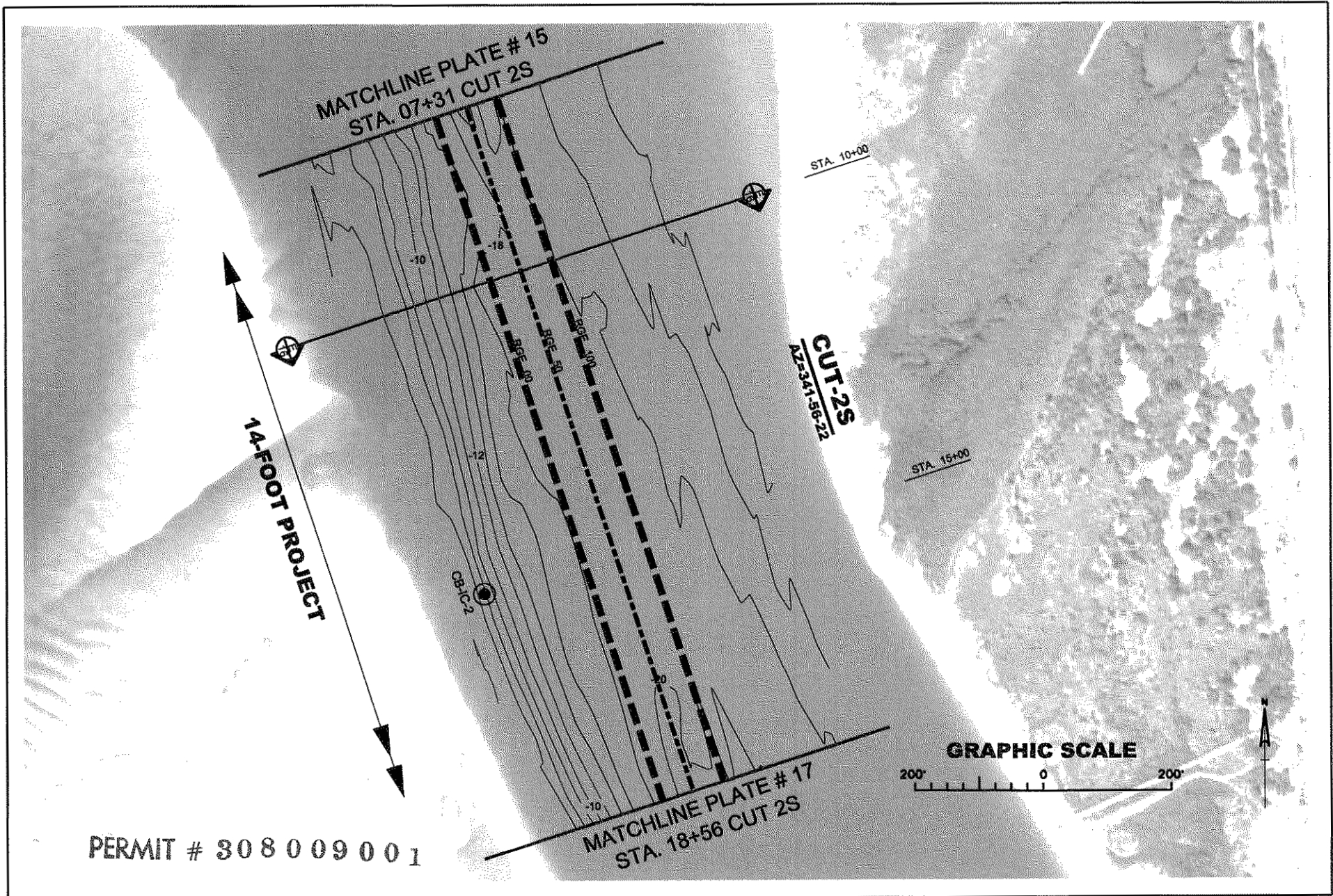




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|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|
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|                                                                                                                                               | DEPARTMENT OF THE ARMY<br>JACKSONVILLE DISTRICT, CORPS OF ENGINEERS<br>JACKSONVILLE, FLORIDA | FEBRUARY 2012<br><br>SCALE:<br>AS SHOWN | GMK<br>GMK/SR<br><br>CKD BY:<br>SR |                                                                                                                                                 |                                                                               |                                |
|                                                                                                                                               |                                                                                              |                                         |                                    |                                                                                                                                                 |                                                                               |                                |



|                                                                                                                                                     |                                                                                                       |                                 |                           |                                                                                                                                                           |                                                                                   |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|
|  <p>US Army Corps<br/>of Engineers<br/>Jacksonville District</p> | <p><b>WQC PLATES</b><br/>NOT FOR CONSTRUCTION</p>                                                     | <p>FILE NAME:</p>               | <p>DWN BY:<br/>GMK</p>    | <p>GENERAL NOTES:<br/>- CONTOURS SHOWN ARE AT 2 FOOT INTERVALS<br/>- RED CONTOURS ARE ABOVE PROJECT DEPTH<br/>- BLUE CONTOURS ARE BELOW PROJECT DEPTH</p> | <p>VOLUSIA COUNTY, FL<br/><b>MAINTENANCE DREDGING<br/>PONCE DE LEON INLET</b></p> | <p>PLATE:<br/><br/><b>15</b></p> |
|                                                                                                                                                     | <p>DEPARTMENT OF THE ARMY<br/>JACKSONVILLE DISTRICT, CORPS OF ENGINEERS<br/>JACKSONVILLE, FLORIDA</p> | <p>DATED:<br/>FEBRUARY 2012</p> | <p>DSN BY:<br/>GMK/SR</p> |                                                                                                                                                           |                                                                                   |                                  |
|                                                                                                                                                     |                                                                                                       | <p>SCALE:<br/>AS SHOWN</p>      | <p>CKD BY:<br/>SR</p>     |                                                                                                                                                           |                                                                                   |                                  |



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Jacksonville District

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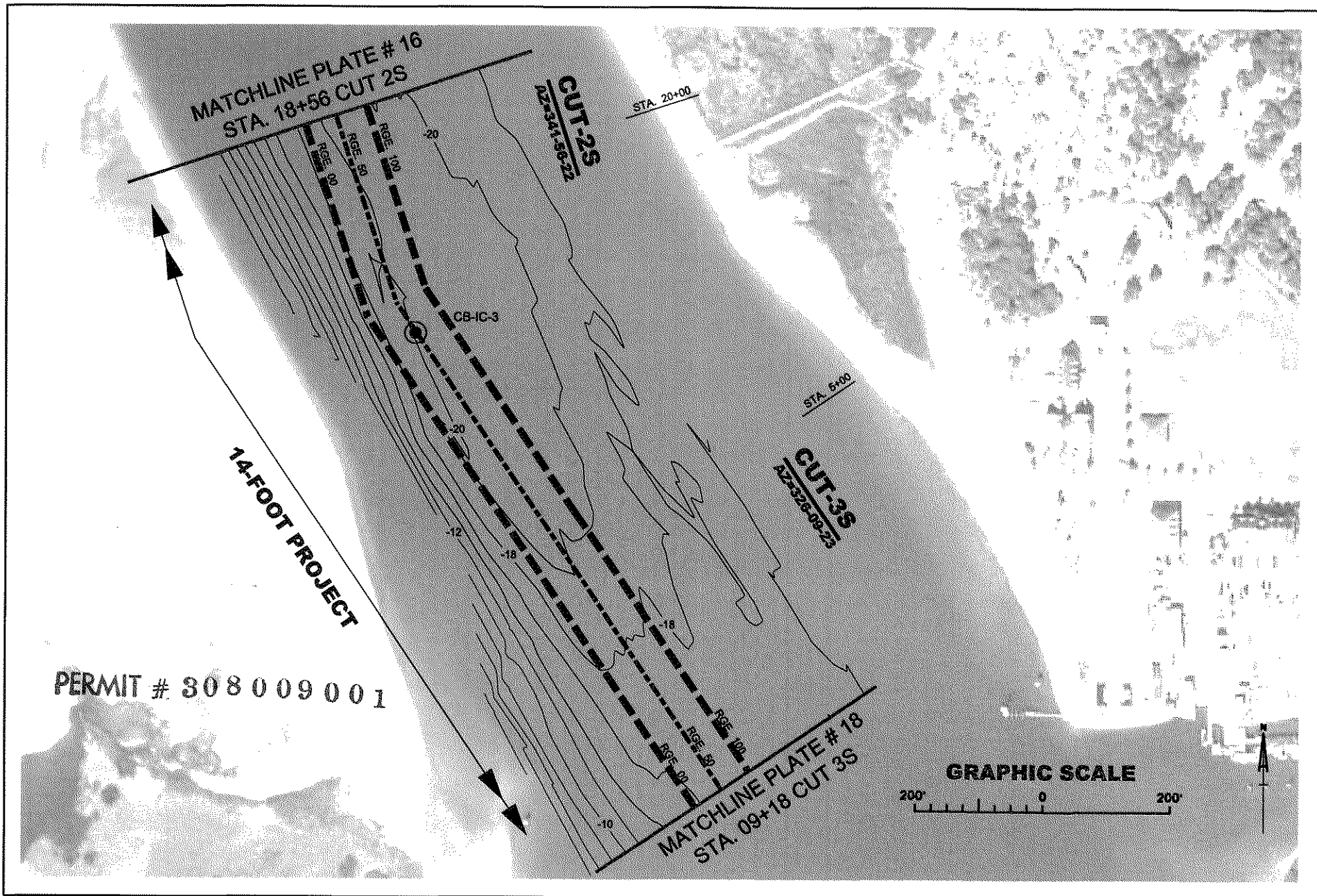
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VOLUSIA COUNTY, FL

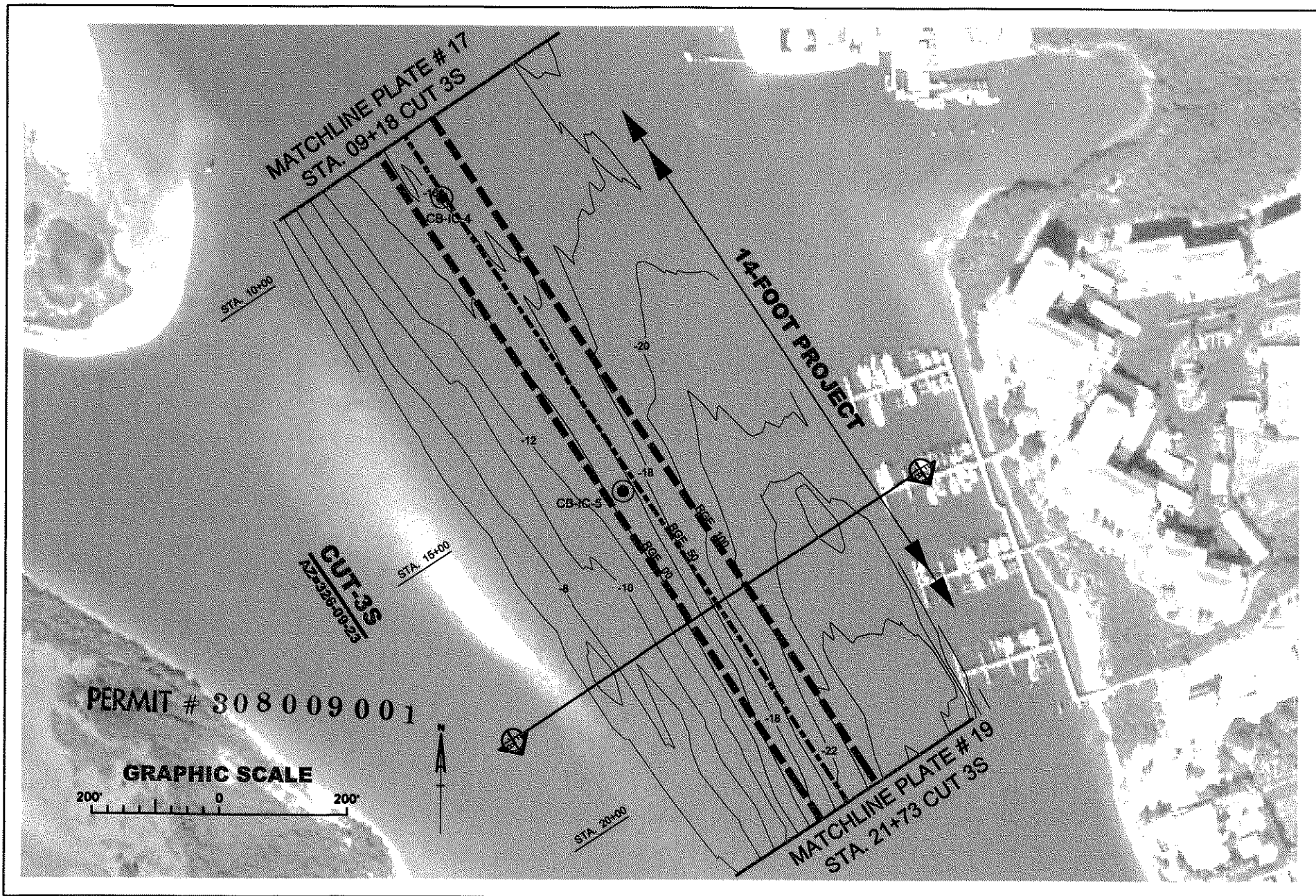
**MAINTENANCE DREDGING**  
**PONCE DE LEON INLET**

PLATE:

**16**



|                                                                                                                                                     |                                                                                                                                                         |                                                            |                                                 |                                                                                                                                                           |                                                                                      |                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------|
|  <p>US Army Corps<br/>of Engineers<br/>Jacksonville District</p> | <p><b>WQC PLATES</b><br/>NOT FOR CONSTRUCTION</p> <p>DEPARTMENT OF THE ARMY<br/>JACKSONVILLE DISTRICT, CORPS OF ENGINEERS<br/>JACKSONVILLE, FLORIDA</p> | <p>FILE NAME:</p>                                          | <p>DWN BY:<br/>GMK</p>                          | <p>GENERAL NOTES:<br/>- CONTOURS SHOWN ARE AT 2 FOOT INTERVALS<br/>- RED CONTOURS ARE ABOVE PROJECT DEPTH<br/>- BLUE CONTOURS ARE BELOW PROJECT DEPTH</p> | <p>VOLUSIA COUNTY, FL</p> <p><b>MAINTENANCE DREDGING<br/>PONCE DE LEON INLET</b></p> | <p>PLATE:</p> <p><b>17</b></p> |
|                                                                                                                                                     |                                                                                                                                                         | <p>DATED:<br/>FEBRUARY 2012</p> <p>SCALE:<br/>AS SHOWN</p> | <p>DSN BY:<br/>GMK/SR</p> <p>CKD BY:<br/>SR</p> |                                                                                                                                                           |                                                                                      |                                |



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- RED CONTOURS ARE ABOVE PROJECT DEPTH
- BLUE CONTOURS ARE BELOW PROJECT DEPTH

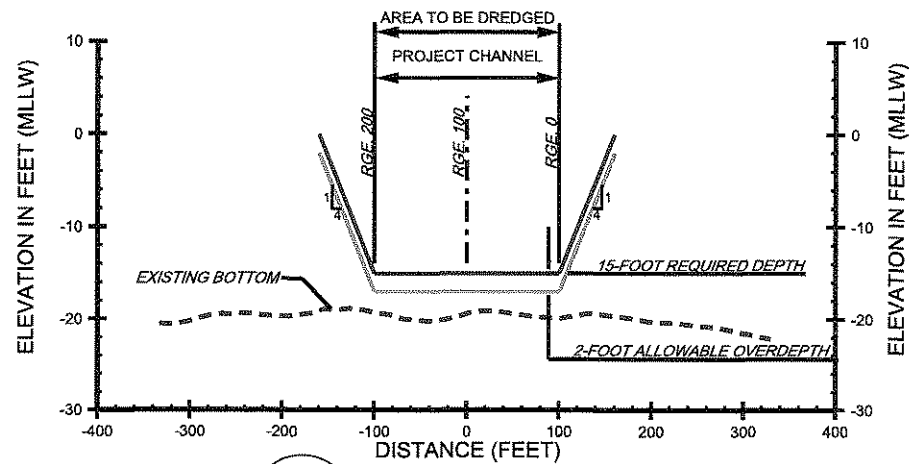
VOLUSIA COUNTY, FL

**MAINTENANCE DREDGING  
PONCE DE LEON INLET**

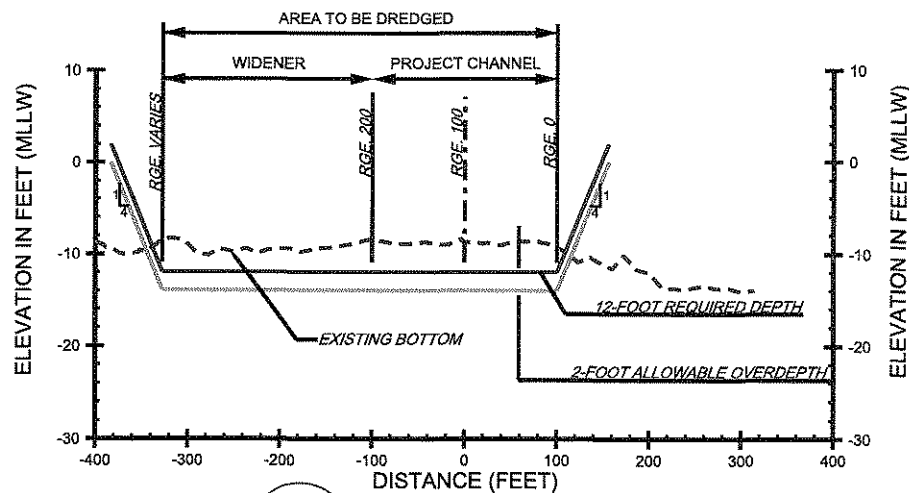
**PLATE:**

**18**





**A**  
**03**  
**CUT-1A 10+00**



**B**  
**07**  
**CUT-3N 5+00**

PERMIT # 308009001

**GRAPHIC SCALE**

HORIZONTAL 50' 0 50' 100'

VERTICAL 5' 0 5' 10'



US Army Corps  
of Engineers  
Jacksonville District

**WQC PLATES**  
**NOT FOR CONSTRUCTION**

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

**FILE NAME:**

**DATED:**  
FEBRUARY 2012

**SCALE:**  
AS SHOWN

**DWN BY:**  
GMK

**DSN BY:**  
GMK/SR

**CKD BY:**  
SR

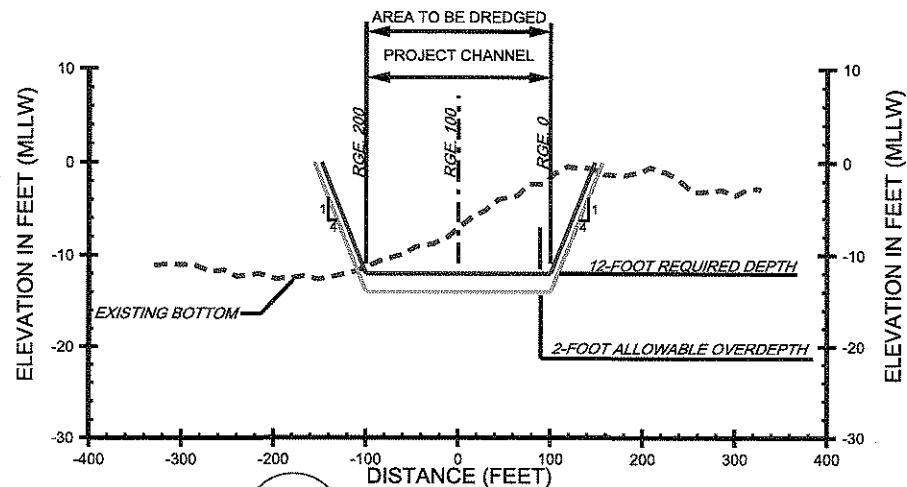
**GENERAL NOTES:**

VOLUSIA COUNTY, FL

**MAINTENANCE DREDGING**  
**PONCE DE LEON INLET**

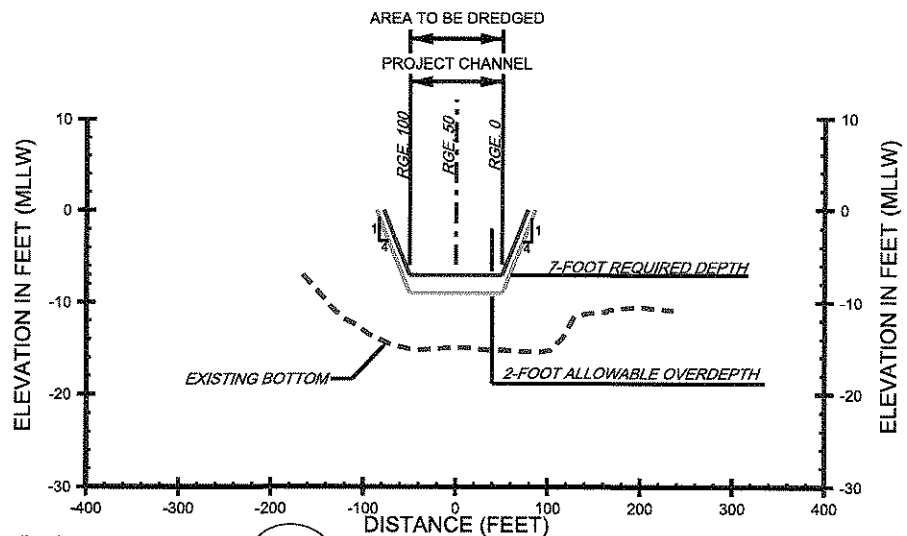
**PLATE:**

**20**



**C**  
**07**

**CUT-5N 4+00**



**D**  
**13**

**CUT-12N 5+00**

**GRAPHIC SCALE**

HORIZONTAL 50' 0 50' 100'  
VERTICAL 5' 0 5' 10'

PERMIT # 308009001



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Jacksonville District

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

FILE NAME:  
DATED: FEBRUARY 2012  
SCALE: AS SHOWN

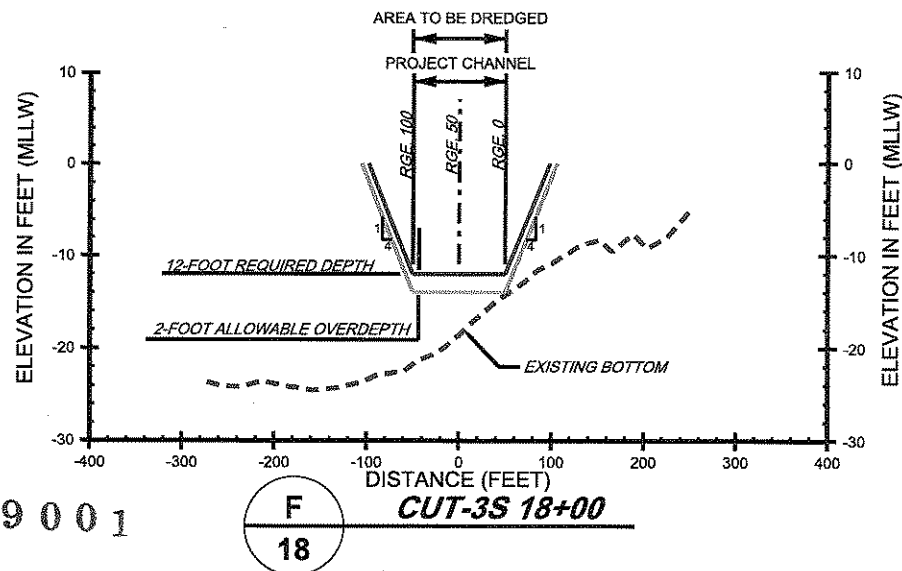
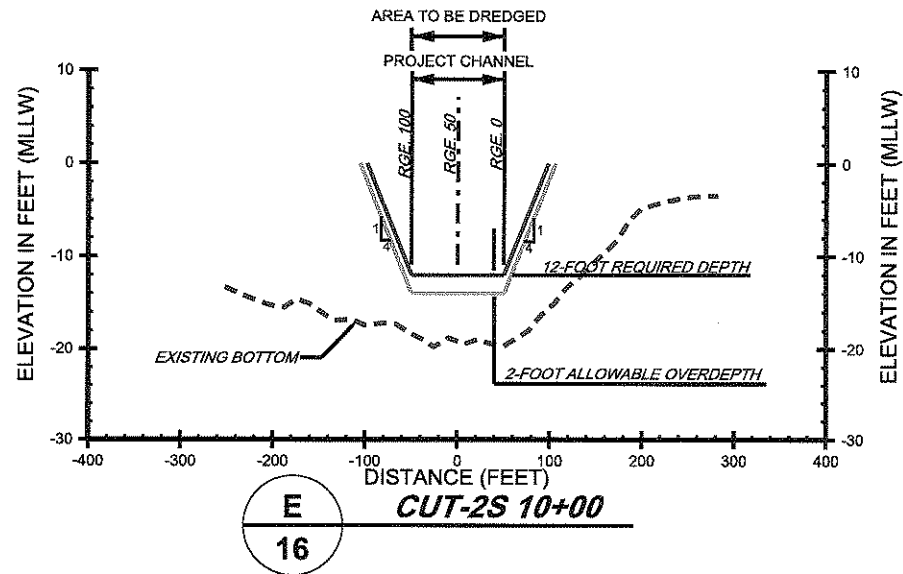
DWN BY: GMK  
DSN BY: GMK/SR  
CKD BY: SR

GENERAL NOTES:

VOLUSIA COUNTY, FL  
**MAINTENANCE DREDGING  
PONCE DE LEON INLET**

**PLATE:**

**21**



**GRAPHIC SCALE**

HORIZONTAL 50' 0 50' 100'

VERTICAL 5' 0 5' 10'

PERMIT # 308009001



US Army Corps  
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Jacksonville District

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

FILE NAME:

DATED:  
FEBRUARY 2012

SCALE:  
AS SHOWN

DWN BY:

DSN BY:  
GMK/SR

CKD BY:  
SR

GENERAL NOTES:

VOLUSIA COUNTY, FL

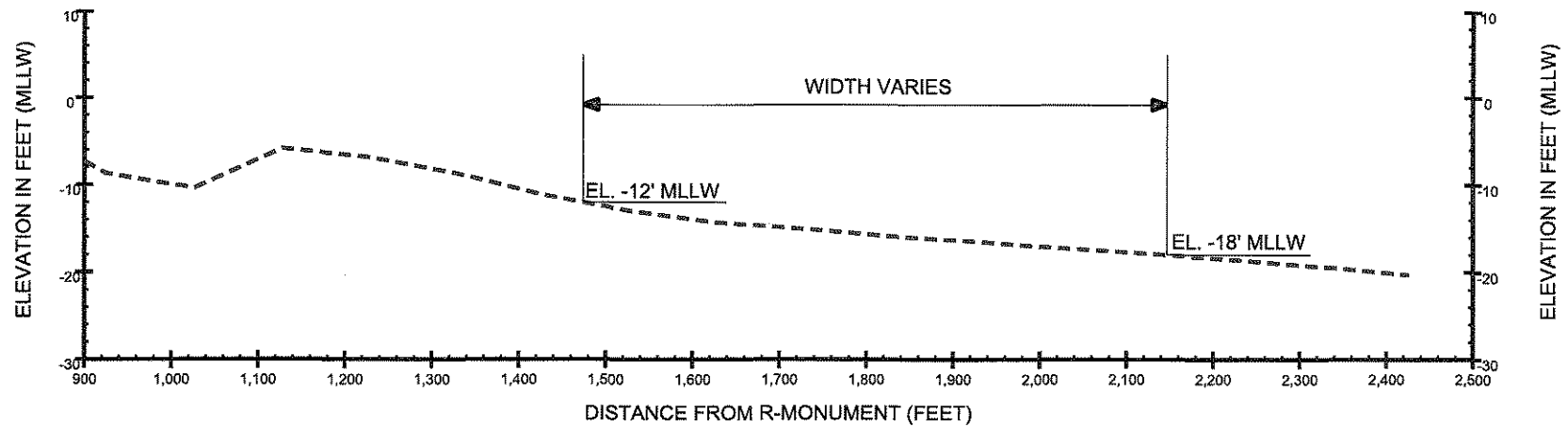
**MAINTENANCE DREDGING**  
**PONCE DE LEON INLET**

**PLATE:**

**22**

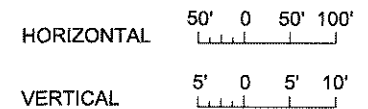


**NEARSHORE PLACEMENT AREA CROSS-SECTION  
(PROFILE EXTENDING FROM R-158)**



**PERMIT # 308009001**

**GRAPHIC SCALE**



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

|                   |                |
|-------------------|----------------|
| <b>FILE NAME:</b> | <b>DWN BY:</b> |
| <b>DATED:</b>     | <b>DSN BY:</b> |
| <b>SCALE:</b>     | <b>CKD BY:</b> |

**GENERAL NOTES:**  
SURVEY DATED OCTOBER, 2006  
ELEVATIONS ARE RELATIVE TO MLLW  
DATUM CONVERSION:  
0' NAVD88 = +2.45' MLLW

VOLUSIA COUNTY, FL  
**MAINTENANCE DREDGING  
PONCE DE LEON INLET**

**PLATE:**  
**24**