



REPLY TO
ATTENTION OF:

South Branch
Regulatory Division

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, MOBILE DISTRICT
P.O. BOX 2288
MOBILE, ALABAMA 36628-0001

June 1, 2013

JOINT PUBLIC NOTICE SAM-2013-00262-RCV
U.S. ARMY CORPS OF ENGINEERS

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF POLLUTION CONTROL

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
DMR-130231

TO WHOM IT MAY CONCERN:

This District has received an application for a Department of the Army permit pursuant to Section 10 of the River and Harbors Act of 1899 and Section 404 of the Clean Water Act. Please communicate this information to interested parties.

APPLICANT: City of Waveland
Post Office Box 539
Waveland, Mississippi

AGENT: Pickering Firm Inc.
Attention: Mr. Van Killen
2001 Airport Road, Suite 201
Flowood, Mississippi 39232

LOCATION: Jackson Marsh/Grand Bayou, Mississippi Sound, Edwards Bayou/ Jordon River.
Project is located in Sections 33, 34, 35, 36 and 44, Township 8 South, Range 14 West; Section 3, 4, 9, 10, 15 and 21, Township 9 South, Range 14 West, Hancock County, Mississippi

WORK: The Federal Emergency Management Agency (FEMA) has approved a grant application submitted by the Mississippi Emergency Management Agency (MEMA) on behalf of the City of Waveland for drainage improvements work in Waveland. The project specifically includes construction, replacement, repair and maintenance of existing drainage features within Waveland. Many of these drainage structures were damaged during Hurricane Katrina and/or are undersized for current standards and loads. Wetland impacts will result from cleaning out existing ditches, paving existing ditches and re-grading and re-shaping existing drainage channels and banks to 3:1 slopes. A total of 2.39 acres of low-quality emergent wetlands located within approximately ± 33,860 linear feet of existing drainage ditches will require morphologic changes. These drainage features will be channelized and armored with 17,500 cubic yards of concrete to improve stormwater runoff.

Work will also include the replacement of undersized/ off-grade culverts at existing road crossings with box culverts. BMP's will be installed at each work site.

The applicant stated that excavated/ spoil material to be disposed of at the Kings Site Class 1 C&D Landfill in Hancock County .

PROJECT PURPOSE: The applicant's stated purpose of the proposed project is to improve stormwater runoff infrastructure within Waveland. This is needed to reduce flooding in developed areas within the city limits.

The U.S. Army Corps of Engineers initially determined the basic project purpose is for the improvement of drainage within Waveland.

MITIGATION: The project would impact a total of 2.39 acres of low-quality emergent wetlands. The applicant proposes to mitigate for proposed impacts with the purchase of appropriate mitigation credits from an approved mitigation bank.

WATER QUALITY: The applicant has applied for certification (DMR-130231) from the State of Mississippi in accordance with Section 401(a) (1) of the Clean Water Act and upon completion of the required advertising; a determination relative to certification will be made.

The applicant has applied for coastal zone consistency from the State of Mississippi Department of Marine Resources in accordance with Section 57-15-6 of the Mississippi Code Annotated.

HISTORIC PROPERTIES: In accordance with Section 106 of the National Historic Preservation Act, and Appendix C of 33 CFR 325, the undertaking defined in this notice is being considered for the potential to effect cultural and historic properties within the permit area.

In accordance with Appendix C of 33 CFR Part 325, the Corps has determined that the permit area is the full area of development for the multiple project footprints. The Corps received a cultural resources assessment that was performed within the project areas and surrounding areas to determine if the project could cause any adverse impacts to any known cultural resources eligible for listing in the National Register of Historic Places. The report was submitted for comments to Mississippi Department of Archives and History (MDAH) November 15, 2012. MDAH responded December 6, 2012, stating, "After review, we concur the proposed project will have no adverse impact to known cultural resources ... As such, we have no objections to the project." (MDAH #11-058-12)

ENDANGERED SPECIES: The U.S. Fish and Wildlife Service (FWS) was contacted November 15, 2012 for comments regarding any known presence of threatened and/or endangered species within the project areas. The FWS responded December 27, 2012 with a list of species or their habitat that could be found within the project area; including the gopher tortoise (*Gopherus polyphemus*), the black pine snake (*Pituophis melanoleucus spp. lodingi*), the Louisiana quillwort (*Isoetes louisianensis*) and the bald eagle (*Haliaeetus leucocephalus*). In addition, the FWS "recommends the subject property be surveyed for the above-referenced species by a qualified

biologist." the applicant's biologists are currently surveying the project area for the listed species and will submit a report of findings to the FWS upon completion.

Preliminary review of this application and the U.S. Department of the Interior List of Endangered and Threatened Wildlife and Plants that the proposed activity may affect but is not likely to adversely affect listed endangered or threatened species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The Corps initial determination is that the proposed action would not have a substantial adverse impact on EFH or Federally managed fisheries.

Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

This public notice is being distributed to all known interested persons in order to assist in developing facts on which a decision by the Corps can be based. For accuracy and completeness of the record, all data in support of or in opposition to the proposed work should be submitted in writing setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition. The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources.

The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the proposal, will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, protected species, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and in general, the needs and welfare of the people.

The Corps is soliciting comments from the public; Federal, State and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held for consideration of this application. Requests for public hearings shall state with particularity, the reasons for holding a public hearing.

Evaluation of the probable impacts involving deposits of dredged or fill material into waters of the United States will include the application of guidelines established by the Administrator of the U.S. Environmental Protection Agency.

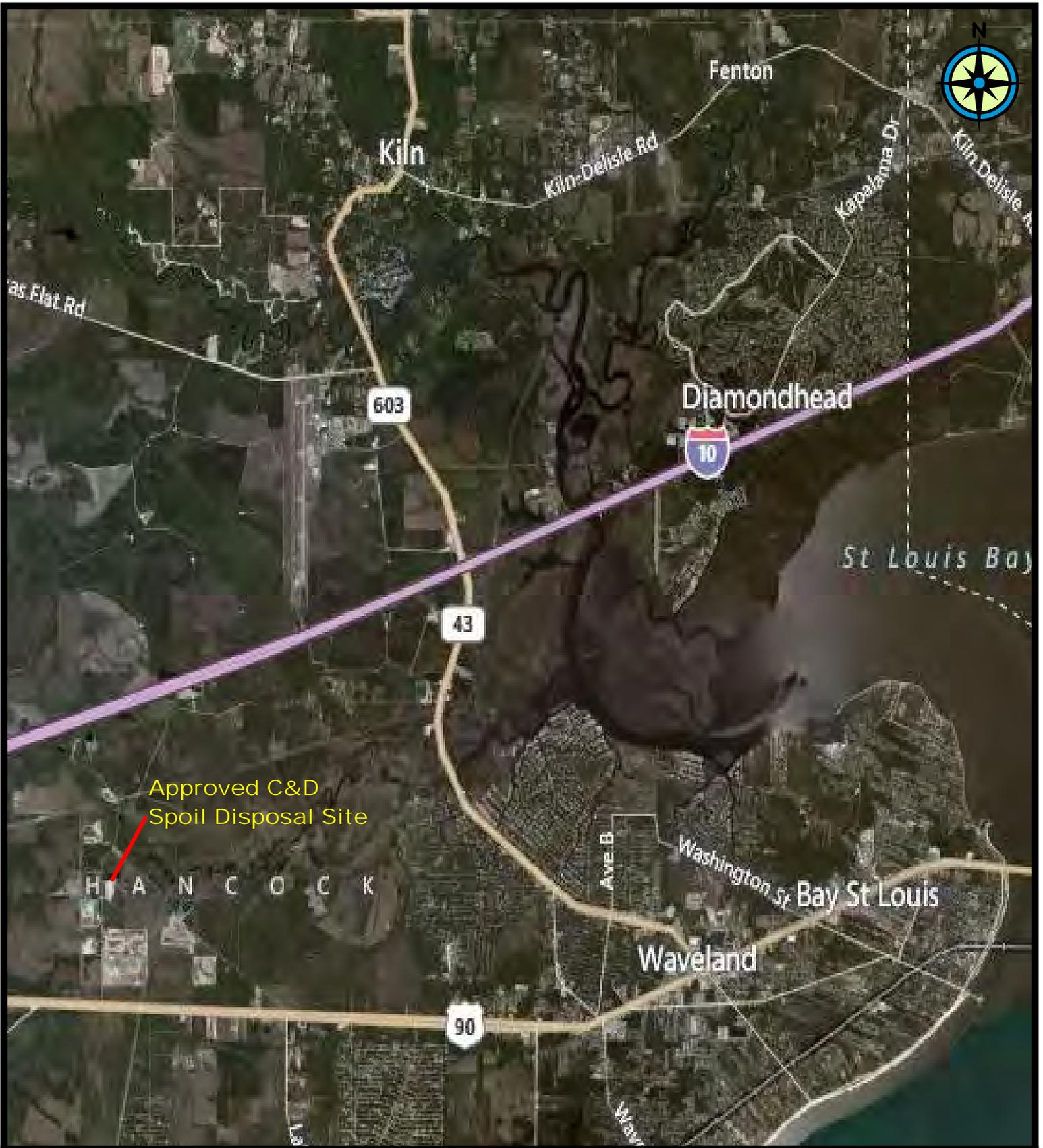
Correspondence concerning this Public Notice should refer to Public Notice Number **SAM-2013-00262-RCV** and should be directed to the District Engineer, U.S. Army Engineer District, Mobile, Attention: **Mr. Rudolph C. Villarreal**, Post Office Box 2288, Mobile, Alabama 36628-0001, with a copy to the Mississippi Department of Environmental Quality, Office of Pollution Control, Attention: **Ms. Florance Watson, P.E.**, Post Office Box 2261, Jackson, Mississippi 39225 and the Mississippi Department of Marine Resources, Attention: **Mr. James Davis**, 1141 Bayview Avenue, Suite 101, Biloxi, Mississippi 39530, in time to be received within **30 days** of the date of this public notice.

If you have any questions concerning this publication, you may contact the project manager for this application, **Mr. Rudolph C. Villarreal** (rudolph.c.villarreal@usace.army.mil), phone **(251) 690-3246**. Please refer to the above Public Notice number.

For additional information about our Regulatory Program, please visit our web site at <http://www.sam.usace.army.mil/Missions/Regulatory.aspx>.

MOBILE DISTRICT
U.S. Army Corps of Engineers

Enclosures



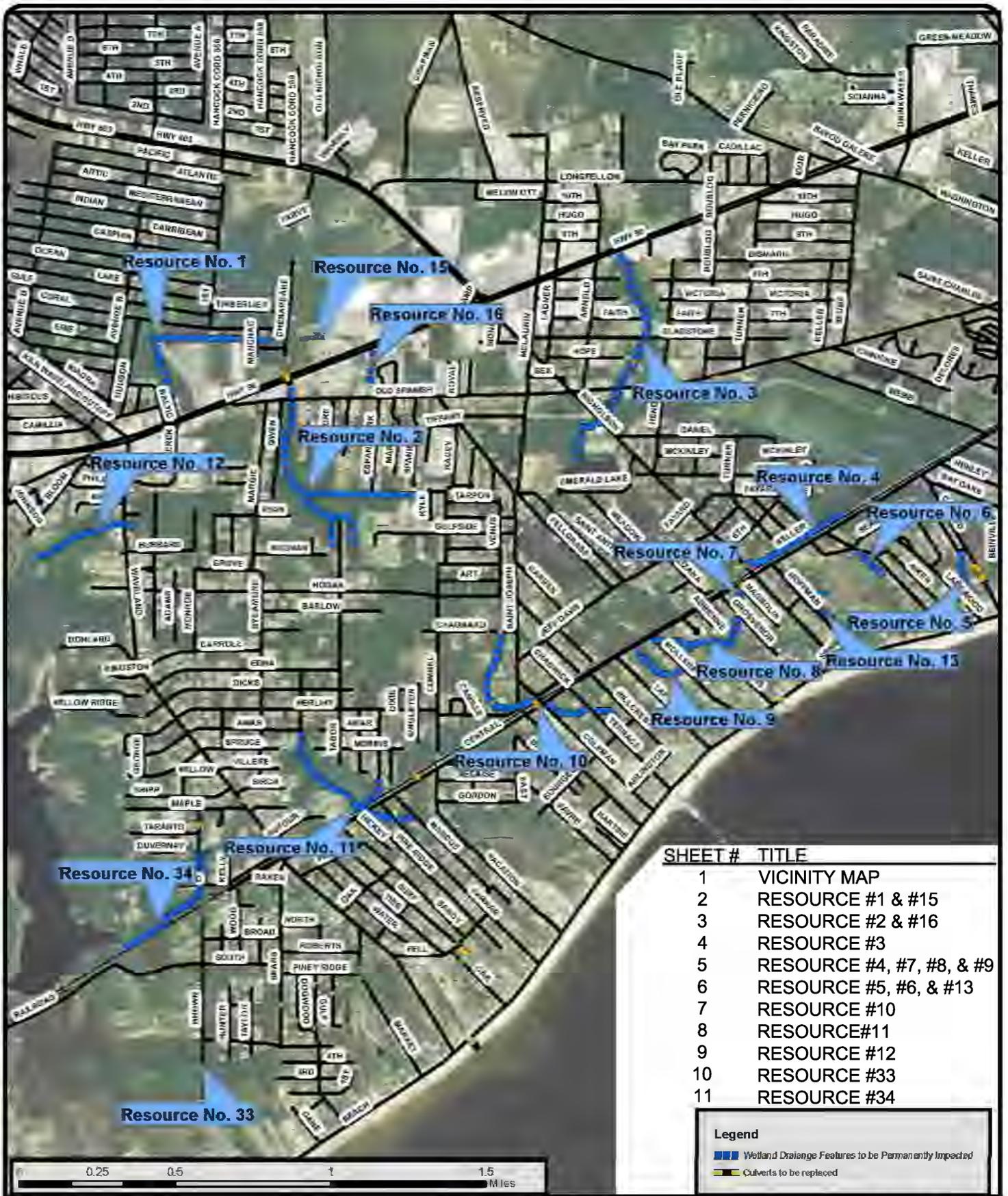
Source: Bing Maps.



Approved C&D Disposal & Vicinity Map

Date: 04/12/2013

Project #: 23288.01



| SHEET # | TITLE |
|---------|---------------------------|
| 1 | VICINITY MAP |
| 2 | RESOURCE #1 & #15 |
| 3 | RESOURCE #2 & #16 |
| 4 | RESOURCE #3 |
| 5 | RESOURCE #4, #7, #8, & #9 |
| 6 | RESOURCE #5, #6, & #13 |
| 7 | RESOURCE #10 |
| 8 | RESOURCE #11 |
| 9 | RESOURCE #12 |
| 10 | RESOURCE #33 |
| 11 | RESOURCE #34 |

| Legend | |
|--------|--|
| | Wetland Drainage Features to be Permanently Impacted |
| | Culverts to be replaced |

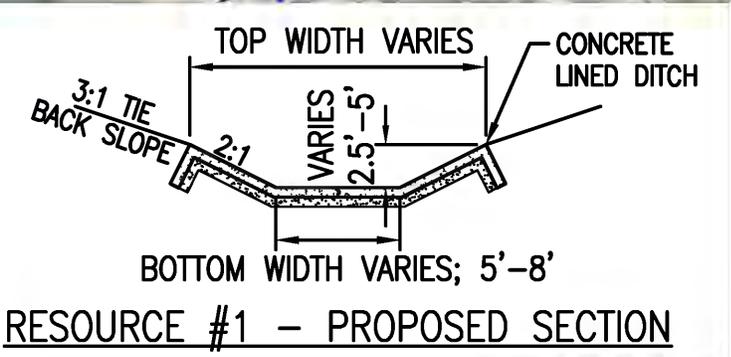
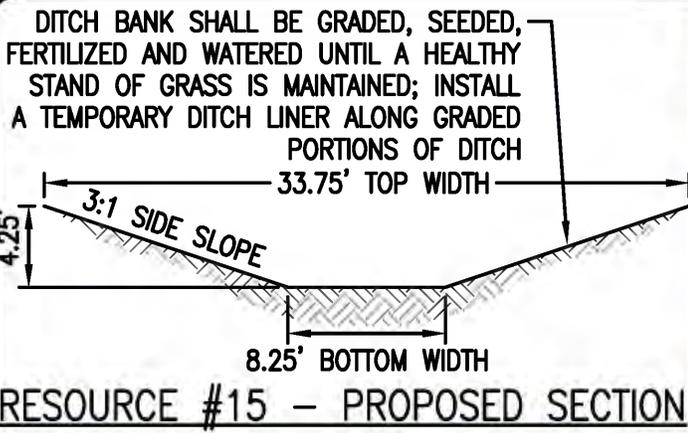


Pickering Firm, Inc.
 Facility Design • Civil Engineering • Surveying •
 Transportation • Natural / Water Resources
 126 Rue Magnolia
 Biloxi, MS 39530
 228.432.5925

CITY OF WAVELAND
 HAZARD MITIGATION GRANT PROGRAM
 CITYWIDE DRAINAGE IMPROVEMENT

DOCUMENT #
DMR

| | | | | | |
|-------------|--------------|-----------|----------|---------|---|
| DESCRIPTION | VICINITY MAP | PROJECT # | 23288.01 | SHEET # | 1 |
| SCALE | NTS | DATE | MAY 2013 | | |



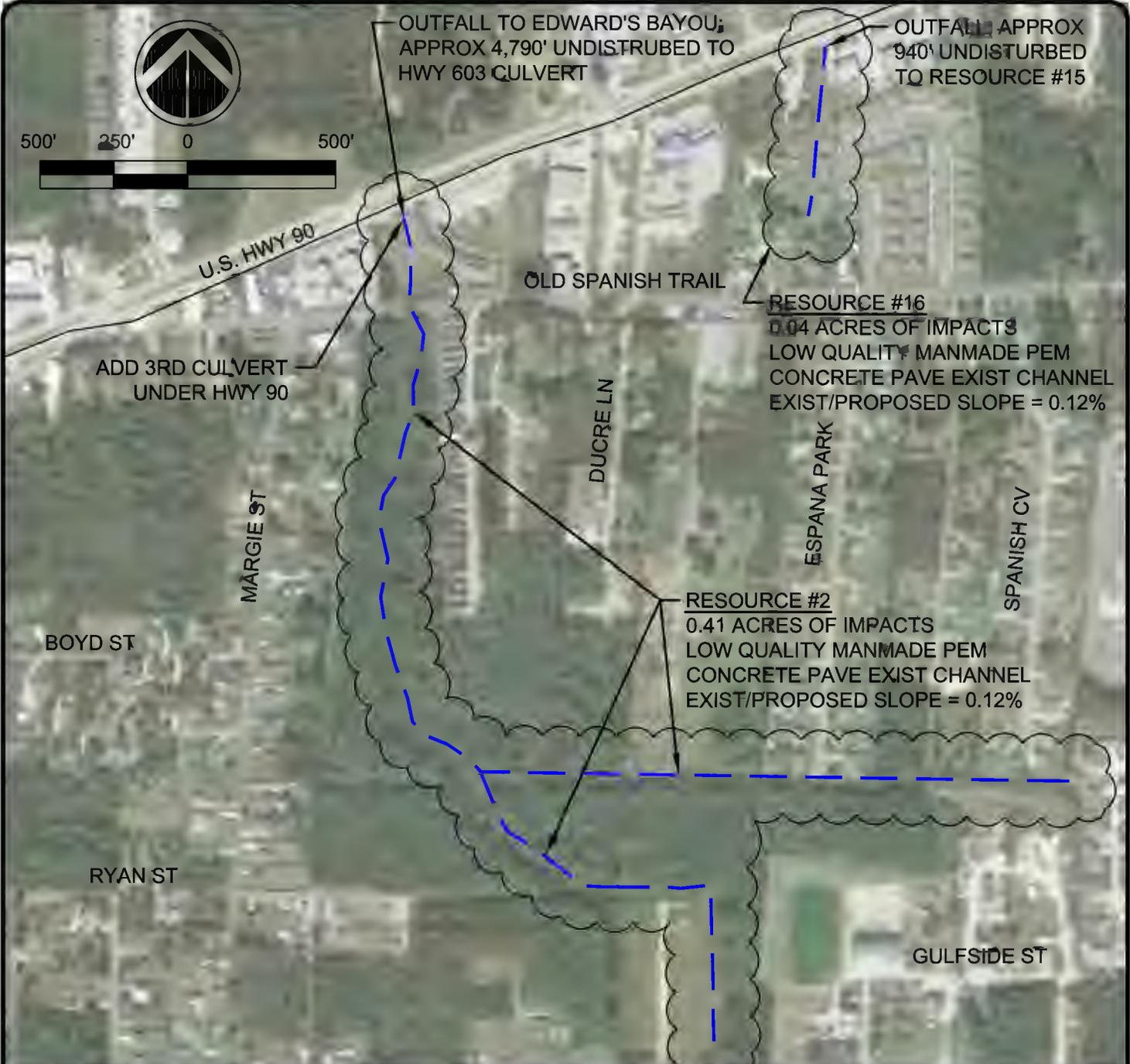
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| | | |
|--|-----------------------|----------------------------|
| CITY OF WAVELAND HAZARD MITIGATION GRANT PROGRAM CITYWIDE DRAINAGE IMPROVEMENT | | DOCUMENT # USACE |
| DESCRIPTION RESOURCE #1 & #15 | PROJECT # 23288.01 | SHEET # 2 |
| SCALE 1"=500' | DATE MAY 2013 | |



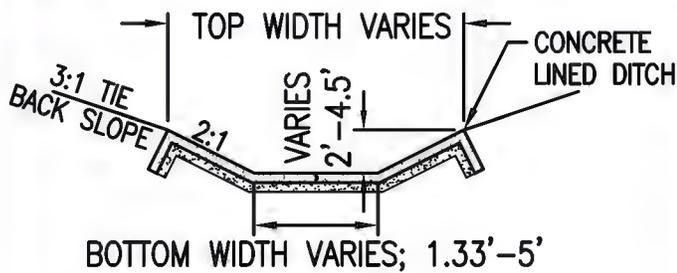
OUTFALL TO EDWARD'S BAYOU;
APPROX 4,790' UNDISTURBED TO
HWY 603 CULVERT

OUTFALL APPROX
940' UNDISTURBED
TO RESOURCE #15

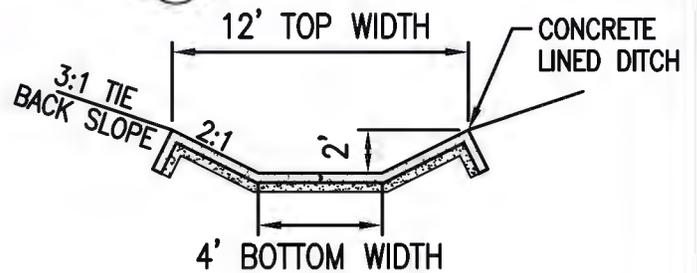


RESOURCE #16
0.04 ACRES OF IMPACTS
LOW QUALITY MANMADE PEM
CONCRETE PAVE EXIST CHANNEL
EXIST/PROPOSED SLOPE = 0.12%

RESOURCE #2
0.41 ACRES OF IMPACTS
LOW QUALITY MANMADE PEM
CONCRETE PAVE EXIST CHANNEL
EXIST/PROPOSED SLOPE = 0.12%



RESOURCE #2 - PROPOSED SECTION



RESOURCE #16 - PROPOSED SECTION



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CITY OF WAVELAND
HAZARD MITIGATION GRANT PROGRAM
CITYWIDE DRAINAGE IMPROVEMENT

DOCUMENT #
USACE

DESCRIPTION
RESOURCE #2 & #16

PROJECT #
23288.01

SHEET #
3

SCALE
1"=500'

DATE
MAY 2013



500' 250' 0 250' 500'



OUTFALL; APPROX 1,900'
UNDISTRIBUED TO WATTS
BAYOU DOWNSTREAM

U.S. HWY 90

MCLAURIN ST

LADNER ST

ARNOLD ST

HENDERSON ST

7TH ST

GLADSTONE ST

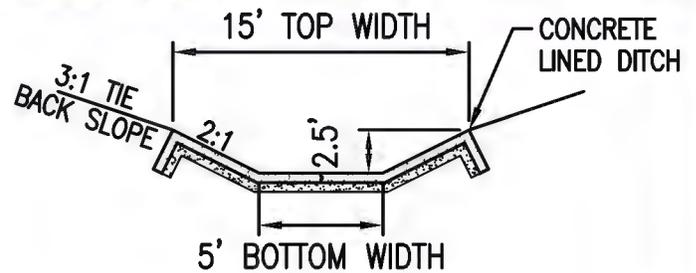
HOPE ST

NICHOLSON AVE

OLD SPANISH TRAIL

RESOURCE #3
0.28 ACRES OF IMPACTS
LOW QUALITY NATURAL PEM
CONCRETE PAVE EXIST CHANNEL
EXIST/PROPOSED SLOPE = 0.22%

UPSIZE CONCRETE
CULVERT



RESOURCE #3 - PROPOSED SECTION



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CITY OF WAVELAND
HAZARD MITIGATION GRANT PROGRAM
CITYWIDE DRAINAGE IMPROVEMENT

DOCUMENT #
USACE

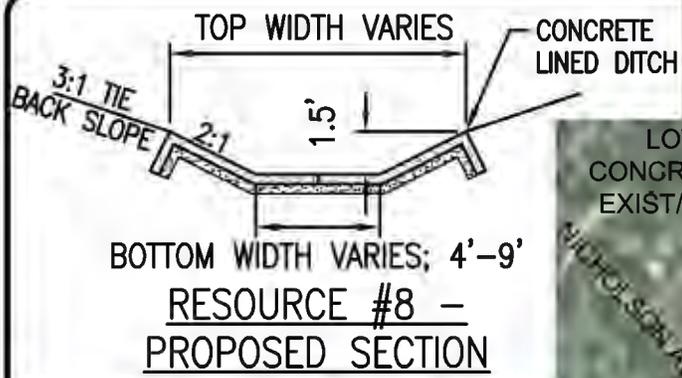
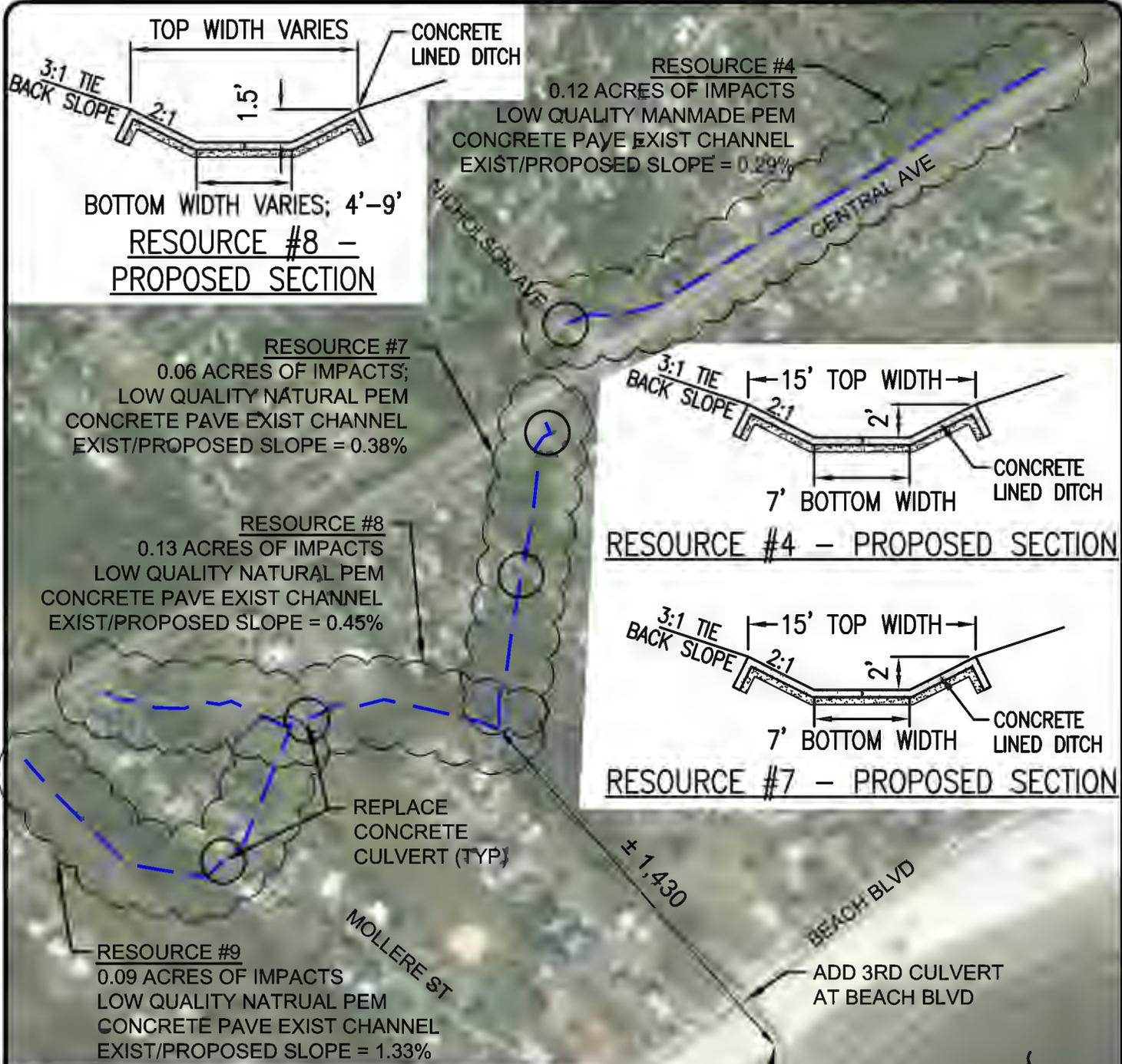
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RESOURCE #3

PROJECT #
23288.01

SHEET #
4

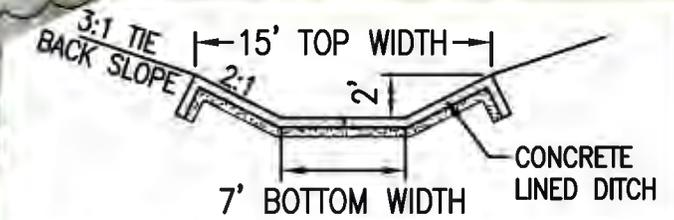
SCALE
1"=500'

DATE
MAY 2013

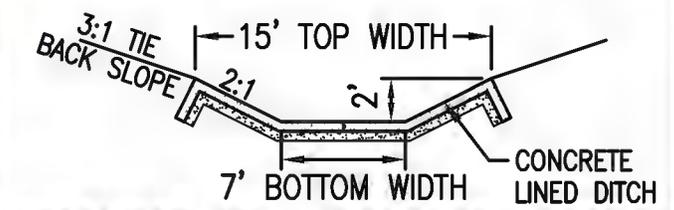


RESOURCE #8 - PROPOSED SECTION

RESOURCE #4
0.12 ACRES OF IMPACTS
LOW QUALITY MANMADE PEM
CONCRETE PAVE EXIST CHANNEL
EXIST/PROPOSED SLOPE = 0.29%



RESOURCE #4 - PROPOSED SECTION



RESOURCE #7 - PROPOSED SECTION

RESOURCE #7
0.06 ACRES OF IMPACTS;
LOW QUALITY NATURAL PEM
CONCRETE PAVE EXIST CHANNEL
EXIST/PROPOSED SLOPE = 0.38%

RESOURCE #8
0.13 ACRES OF IMPACTS
LOW QUALITY NATURAL PEM
CONCRETE PAVE EXIST CHANNEL
EXIST/PROPOSED SLOPE = 0.45%

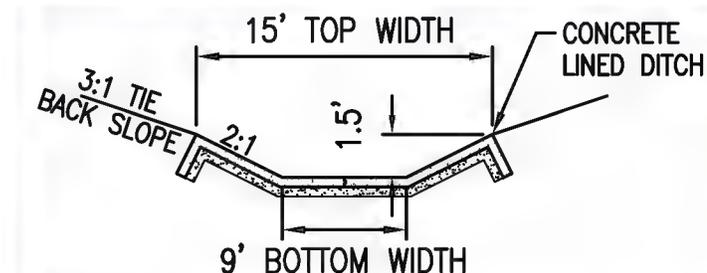
RESOURCE #9
0.09 ACRES OF IMPACTS
LOW QUALITY NATURAL PEM
CONCRETE PAVE EXIST CHANNEL
EXIST/PROPOSED SLOPE = 1.33%

REPLACE CONCRETE CULVERT (TYP)

ADD 3RD CULVERT AT BEACH BLVD

OUTFALL TO THE GULF

GULF OF MEXICO



RESOURCE #9 - PROPOSED SECTION

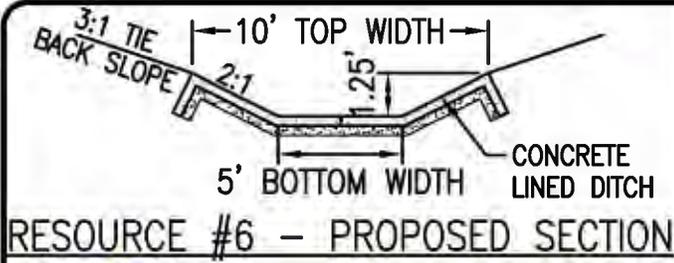


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Biloxi, MS 39530
228.432.5925

CITY OF WAVELAND
HAZARD MITIGATION GRANT PROGRAM
CITYWIDE DRAINAGE IMPROVEMENT

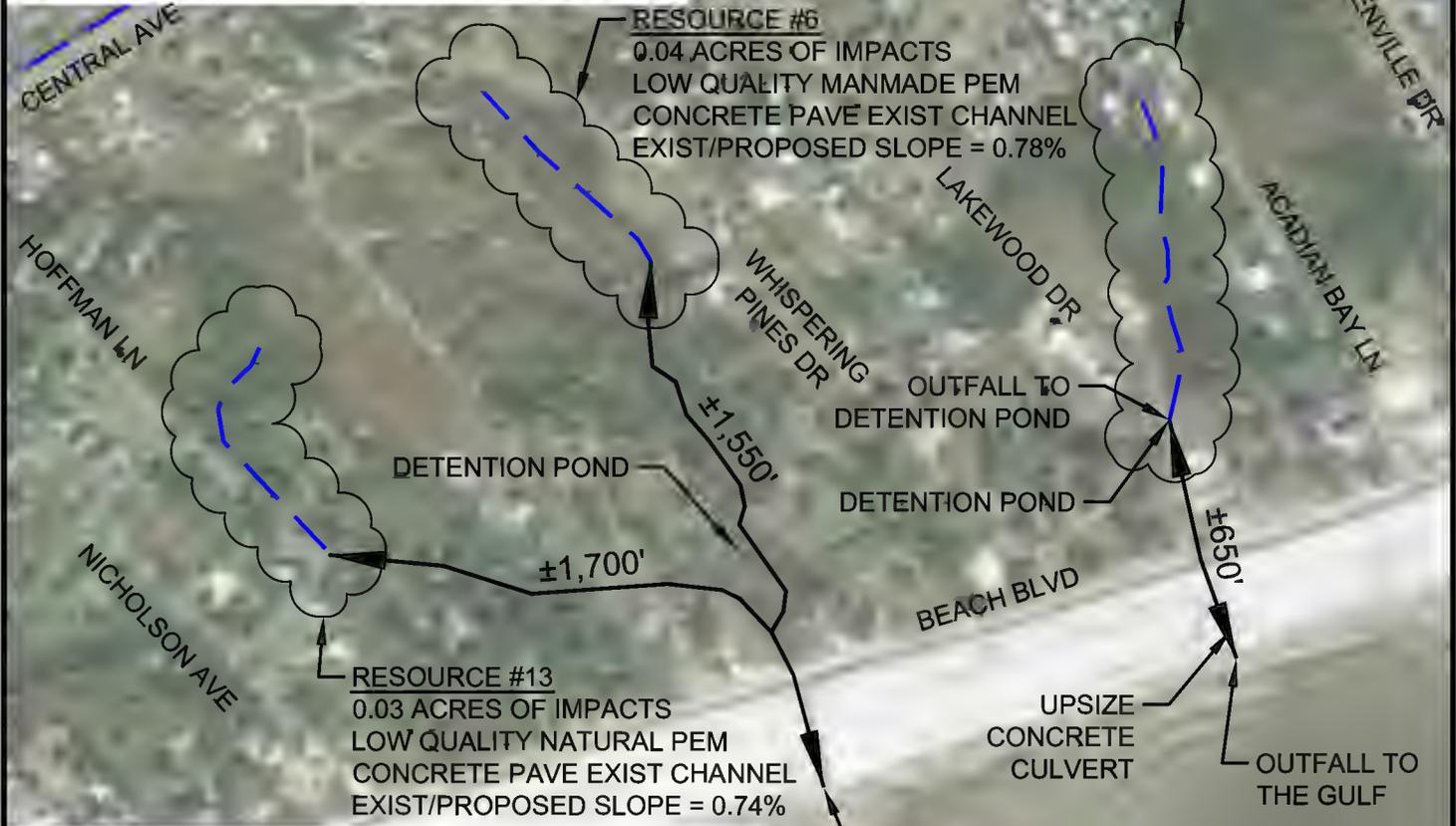
DOCUMENT #
USACE

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|-------------|---------------------------|-----------|----------|---------|---|
| DESCRIPTION | RESOURCE #4, #7, #8, & #9 | PROJECT # | 23288.01 | SHEET # | 5 |
| SCALE | 1"=500' | DATE | MAY 2013 | | |



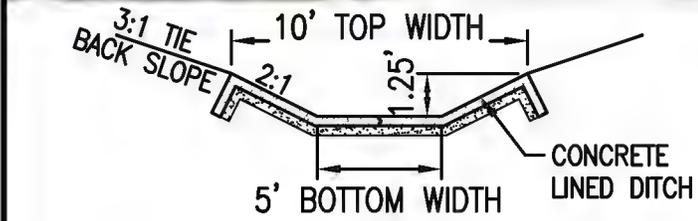
RESOURCE #6 - PROPOSED SECTION

RESOURCE #5
0.05 ACRES OF IMPACTS
LOW QUALITY NATURAL PEM
CONCRETE PAVE EXIST CHANNEL
EXIST/PROPOSED SLOPE = 0.77%

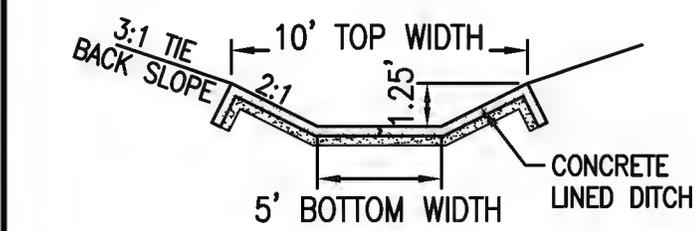


RESOURCE #6
0.04 ACRES OF IMPACTS
LOW QUALITY MANMADE PEM
CONCRETE PAVE EXIST CHANNEL
EXIST/PROPOSED SLOPE = 0.78%

RESOURCE #13
0.03 ACRES OF IMPACTS
LOW QUALITY NATURAL PEM
CONCRETE PAVE EXIST CHANNEL
EXIST/PROPOSED SLOPE = 0.74%



RESOURCE #5 - PROPOSED SECTION



RESOURCE #13 - PROPOSED SECTION



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CITY OF WAVELAND
HAZARD MITIGATION GRANT PROGRAM
CITYWIDE DRAINAGE IMPROVEMENT

DOCUMENT #
USACE

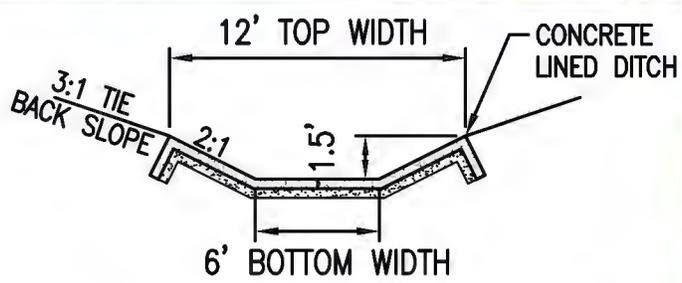
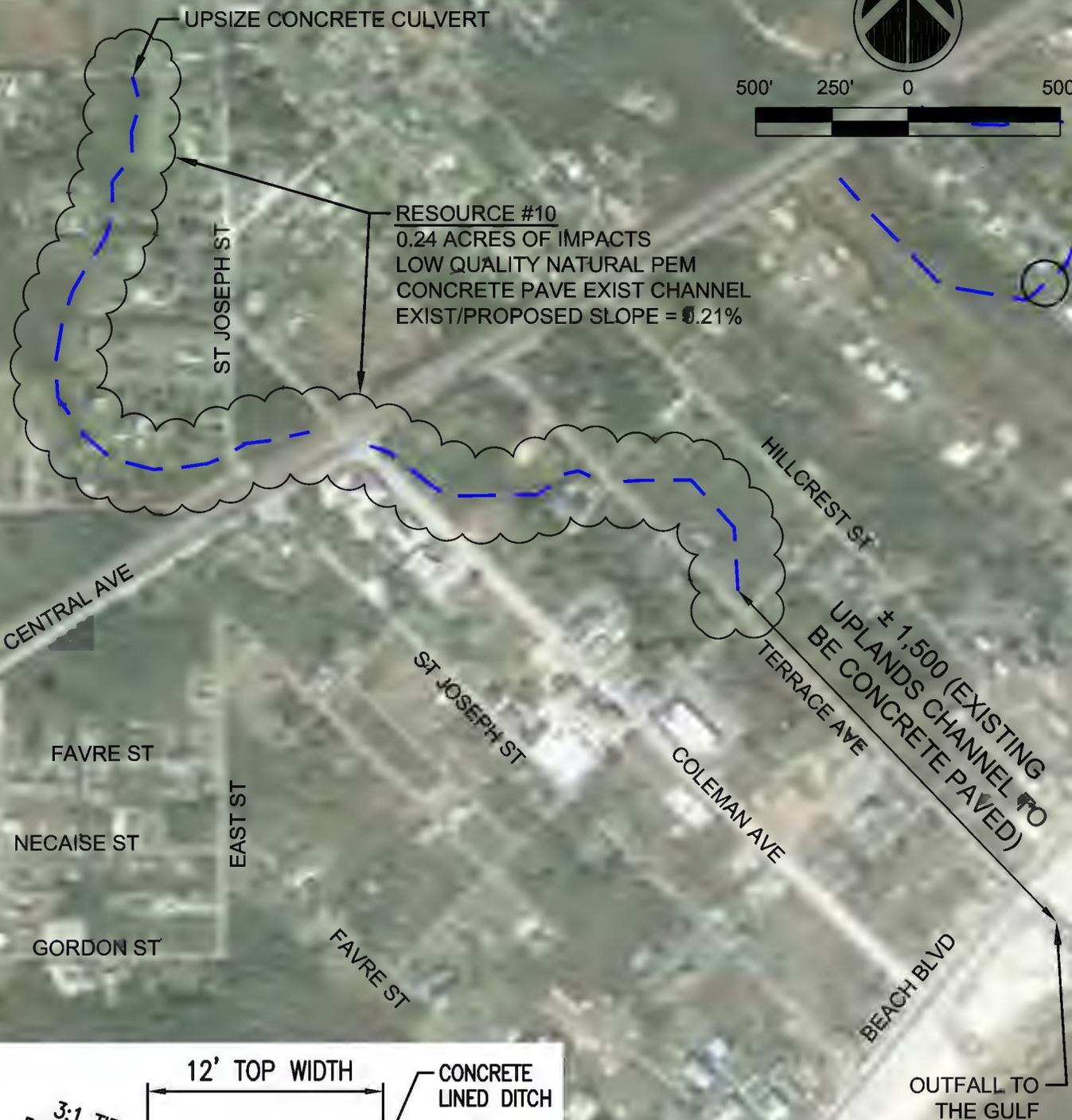
DESCRIPTION
RESOURCE #5, #6, & #13

PROJECT #
23288.01

SHEET #
6

SCALE
1"=500'

DATE
MAY 2013



RESOURCE #10 - PROPOSED SECTION

OUTFALL TO THE GULF
GULF OF MEXICO
Image ©



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CITY OF WAVELAND
HAZARD MITIGATION GRANT PROGRAM
CITYWIDE DRAINAGE IMPROVEMENT

DOCUMENT #
USACE

DESCRIPTION
RESOURCE #10

PROJECT #
23288.01

SHEET #
7

SCALE
1"=500'

DATE
MAY 2013



600' 300' 0 600'



WAVELAND AVE

RESOURCE #11
 0.26 ACRES OF IMPACTS
 LOW QUALITY NATURAL PEM
 CONCRETE PAVE EXIST CHANNEL
 EXIST/PROPOSED SLOPE = 0.28%

TABOR ST
 REPLACE CONCRETE
 CULVERT
 OLIVARI ST

TIDE ST

SANDY ST

COMBELL ST

FELL ST

FARRAR ST

CENTRAL AVE

VACATION LN

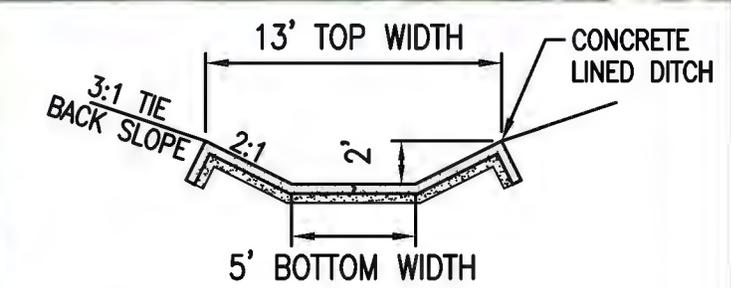
NECAISE ST

EAST ST

+2.900'
 UNDISTURBED
 CHANNEL

OUTFALL TO
 THE GULF

GULF OF
 MEXICO



RESOURCE #11 - PROPOSED SECTION



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CITY OF WAVELAND
 HAZARD MITIGATION GRANT PROGRAM
 CITYWIDE DRAINAGE IMPROVEMENT

DOCUMENT #
USACE

DESCRIPTION
RESOURCE #11

PROJECT #
 23288.01

SHEET #
8

SCALE
 1"=600'

DATE
 MAY 2013



RESOURCE #12
 0.16 ACRES OF IMPACTS
 LOW QUALITY NATURAL PEM
 CONCRETE PAVE EXIST CHANNEL
 EXIST/PROPOSED SLOPE = 0.19%

OUTFALL TO JACKSON MARSH

±2250'

IDLEWOOD POND

WAVELAND AVE

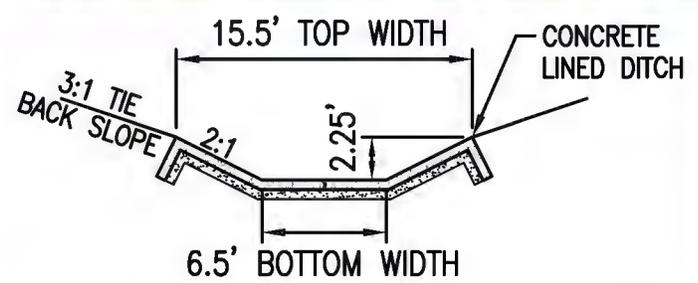
HUBBARD ST

RUE DE LASALLE ST

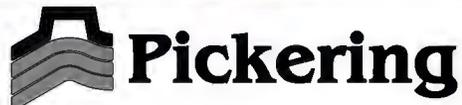
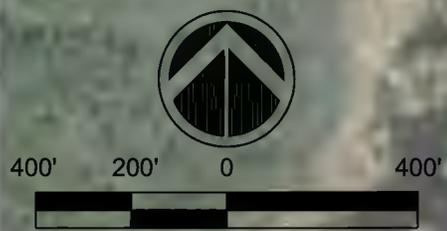
BETH CT

SAUER DR

LOWER BAY RD



RESOURCE #12 - PROPOSED SECTION



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|--|------------------------------|----------------------------|
| CITY OF WAVELAND HAZARD MITIGATION GRANT PROGRAM CITYWIDE DRAINAGE IMPROVEMENT | | DOCUMENT # USACE |
| DESCRIPTION RESOURCE #12 | PROJECT # 23288.01 | SHEET # 9 |
| SCALE 1"=400' | DATE MAY 2013 | |



200' 100' 0 200'

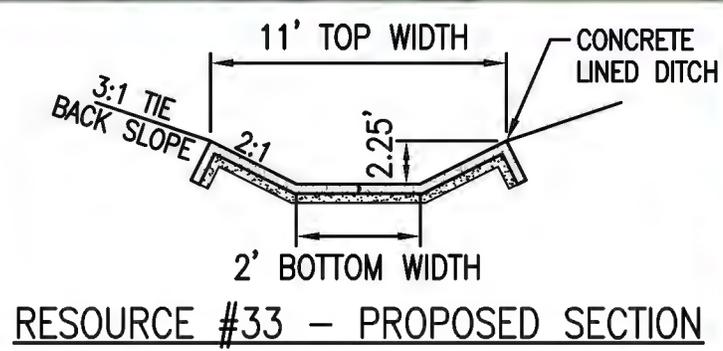


OUTFALL TO JACKSON MARSH

±900' UNDISTURBED

RESOURCE #10
0.003 ACRES OF IMPACTS
LOW QUALITY MANMADE PEM
CONCRETE PAVE EXIST CHANNEL
EXIST/PROPOSED SLOPE = 0.50%

BROWN RD



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CITY OF WAVELAND
HAZARD MITIGATION GRANT PROGRAM
CITYWIDE DRAINAGE IMPROVEMENT

DOCUMENT #

USACE

DESCRIPTION

RESOURCE #33

PROJECT #

23288.01

SHEET #

10

SCALE

1"=200'

DATE

MAY 2013



500' 250' 0 500'



MAPLE ST

TORANTO ST

RESOURCE #34
 0.16 ACRES OF IMPACTS
 LOW QUALITY NATURAL PEM
 CONCRETE PAVE 1,280' EXIST' CHANNEL
 REGRADE REMAINDER OF CHANNEL
 EXIST/PROPOSED SLOPE = 0.20%

DUBUC LN

CONCRETE CHANNEL

REPLACE CONCRETE CULVERT

JACKSON MARSH

OUTFALL TO JACKSON MARSH

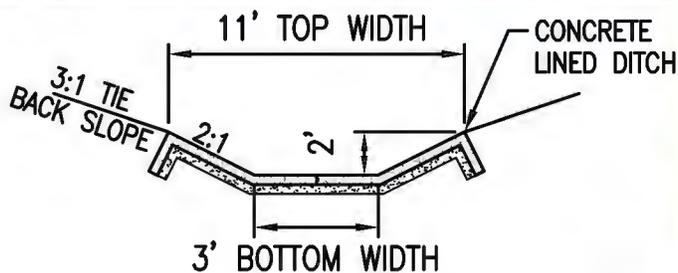
VEGETATED CHANNEL

BROAD ST

SOUTH ST

BROWNS AVE

SUNDANCE PASS



RESOURCE #34 - PROPOSED SECTION



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CITY OF WAVELAND
 HAZARD MITIGATION GRANT PROGRAM
 CITYWIDE DRAINAGE IMPROVEMENT

DOCUMENT #
USACE

DESCRIPTION
RESOURCE #34

PROJECT #
 23288.01

SHEET #
11

SCALE
 1"=500'

DATE
 MAY 2013