



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
701 SAN MARCO BOULEVARD
JACKSONVILLE, FLORIDA 32207-8915

September 18, 2019

Regulatory Division
North Branch
Pensacola Permits Section

PUBLIC NOTICE

Permit Application No. SAJ-2017-03491 (SP-EPS)

TO WHOM IT MAY CONCERN: The Jacksonville District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) as described below:

APPLICANT: Santa Rosa County Public Works
c/o Michael Schmidt
6051 Old Bagdad Highway, Suite 300
Milton, FL 32583

WATERWAY AND LOCATION: The project would affect waters of the United States associated with Tom King Bayou/East Bay. The Camden Drive Outfall Project is located within the Holley by the Sea subdivision approximately 1.4 miles north of US 98 (Navarre Parkway) and bound by Camden Drive to the west, Sherwood Drive to the east, Indian Street to the south, and Fairmont Street to the north.

Directions to the site are as follows: From downtown Pensacola, travel Hwy 98 to Navarre. Turn left onto Edgewood Drive and continue straight for 1.4 mi. Turn right on Indian Street and continue for 0.25 mi to the beginning of the project at Camden Drive.

APPROXIMATE CENTRAL COORDINATES: Latitude 30.424261°
Longitude -86.943470°

PROJECT PURPOSE:

Basic: Drainage and water quality improvements.

Overall: To regrade and widen existing drainage ditches to improve drainage in Holley by the Sea and improve water quality in Tom King Bayou/East Bay.

EXISTING CONDITIONS: The wetland systems proposed for impacts consist of existing ditches and the areas immediately adjacent to them. These palustrine forested systems are densely vegetated with black titi (*Cliftonia monophylla*), slash pine (*Pinus elliottii*), sweetbay magnolia (*Magnolia virginiana*), fetterbush (*Lyonia lucida*) bitter gallberry (*Ilex glabra*), and various ferns. The lowest-elevation portions of the ditches have scattered herbaceous vegetation including hatpins (*Eriocaulon* spp.) and redroot (*Lachnanthes*

caroliniana). The area surrounding the project area consists of platted residential lots of Holley by the Sea with mixed forested/shrub wetlands and uplands surrounding.

PROPOSED WORK: The applicant seeks authorization to discharge fill material into a total of 1.637 acres of Corps-jurisdictional wetlands (1.001-acre of existing jurisdictional ditch, and 0.636-acre of forested wetlands) in order to regrade and widen existing drainage ditches. An additional 0.503-acre of forested wetlands would be temporarily impacted by clearing of vegetation for access by heavy equipment. All activities would occur within platted drainage easements. The intent of this project is to improve drainage in Holley by the Sea, and provide water quality improvements to Tom King Bayou/East Bay. Phase I of this project involved expanding roadside ditches and received a Nationwide Permit verification on June 1, 2018 (file number SAJ-2017-03491). That phase is currently under construction. This proposal is for Phase II, and would consist of expanding roadside ditches to 8' wide and clearing and re-grading an existing drainage easement from Glassport Street north to Elbing Street. Widening of the roadside ditches and drainage ditch within the north-south aligned drainage easement would result in decreased flow velocities allowing some sediment to settle prior to discharge to Tom King Bayou.

AVOIDANCE AND MINIMIZATION INFORMATION – The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

The work will all be maintained to existing county-owned easements. The majority of the work will be contained to previously managed/maintained ditches and will include regrading and some vegetation clearing. As the easement is within a set geographic location that happens to contain wetlands, there is no other upland alternative. Because avoidance and minimization is not applicable, Best Management Practices will be in place to insure the smallest amount of impact to adjacent wetlands and downstream environments. Work within wetlands will be limited to the minimum amount necessary to clear overgrowth and construct the proposed ditches at the elevations shown on the drawings.

The contractor will not be allowed to stage within the Waters of the State. No excavated material from the site will be stored on site. Standard construction methods will be used for clearing and grubbing. Areas outside the limits of the proposed limits of construction will not be disturbed.

COMPENSATORY MITIGATION – The applicant has offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment:

The purchase of 0.50 credits from Pensacola Bay Mitigation Bank.

CULTURAL RESOURCES:

The Corps is not aware of any known historic properties within the permit area. By copy of this public notice, the Corps is providing information for review. Our final determination relative to historic resource impacts is subject to review by and coordination with the State Historic Preservation Officer and those federally recognized tribes with concerns in Florida and the Permit Area.

ENDANGERED SPECIES:

The Corps has determined the proposal may affect, but is not likely to adversely affect the eastern indigo snake (*Drymarchon couperi*). The Corps has determined the proposal would have no effect on any other listed threatened or endangered species or designated critical habitat.

ESSENTIAL FISH HABITAT (EFH): This notice initiates consultation with the National Marine Fisheries Service on EFH as required by the Magnuson-Stevens Fishery Conservation and Management Act 1996. The proposal would impact approximately 2.14 acres of ditches and forested wetlands hydrologically connected to tidal waters utilized by various life stages of shrimp, reef fish, red drum, and coastal migratory/pelagic fish. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or Federally-managed fisheries in the Gulf of Mexico. 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.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The jurisdictional line has been verified by the Corps.

AUTHORIZATION FROM OTHER AGENCIES: Water Quality Certification may be required from the Florida Department of Environmental Protection and/or one of the state Water Management Districts.

COMMENTS regarding the potential authorization of the work proposed should be submitted in writing to the attention of the District Engineer through the Pensacola Permits Section, 41 N. Jefferson Street, Pensacola, FL 32502 within 21 days from the date of this notice.

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

QUESTIONS concerning this application should be directed to the project manager, Ed Sarfert, in writing at the Pensacola Permits Section, 41 N. Jefferson Street, Pensacola,

FL 32502; by electronic mail at edward.p.sarfert@usace.army.mil; by facsimile transmission at (850)433-8160; or, by telephone at (850)439-9533.

IMPACT ON NATURAL RESOURCES: Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

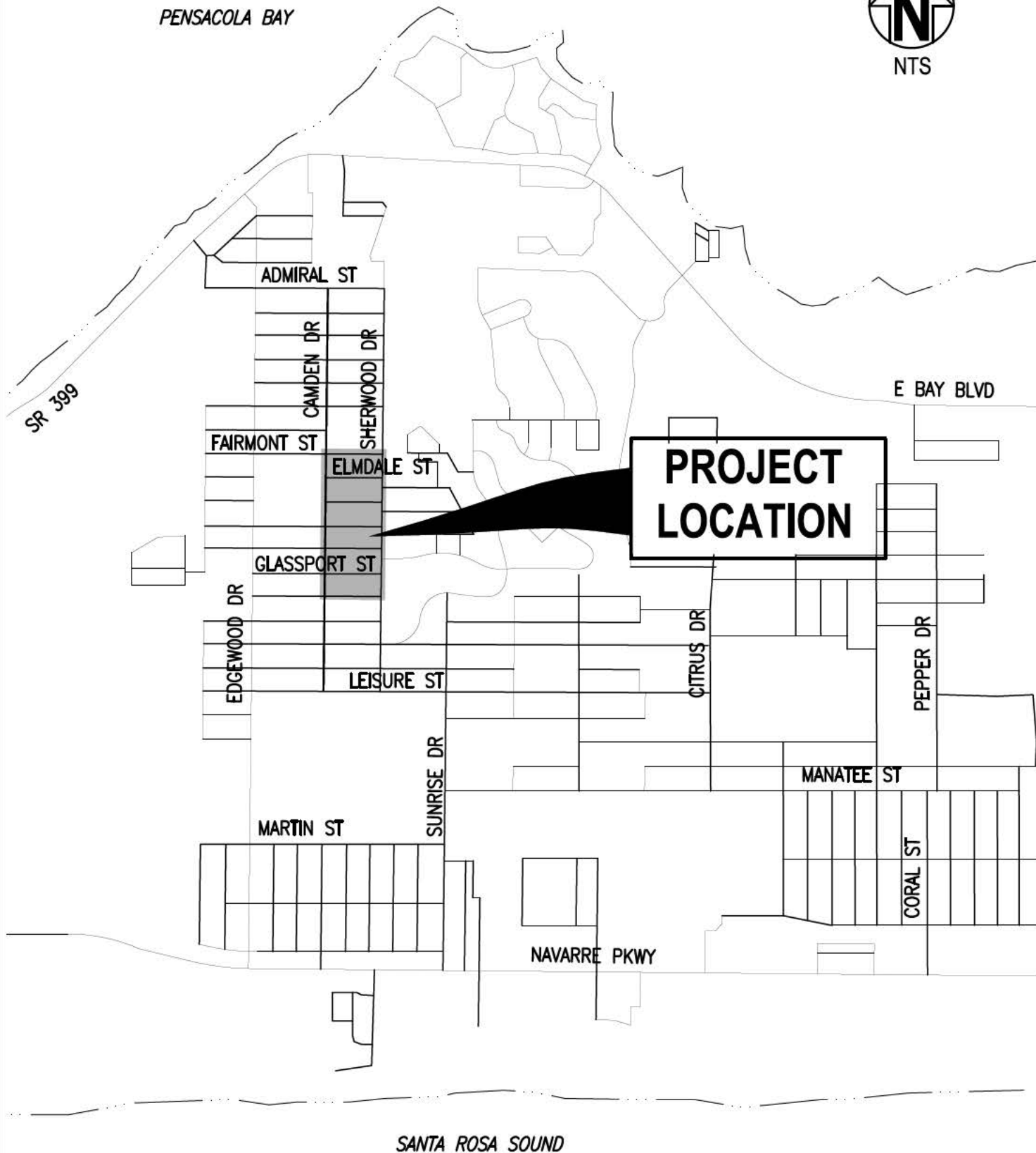
EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, 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 cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

The US Army Corps of Engineers (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 determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

COASTAL ZONE MANAGEMENT CONSISTENCY: In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and Natural Resources permit constitutes compliance with the Coastal Zone Management Plan.

REQUEST FOR PUBLIC HEARING: Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.

PENSACOLA BAY



J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

LOCATION MAP
NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS
Water Body: TOM KING BAYOU
County: SANTA ROSA COUNTY
Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
Original Work: YES Maintenance:
Sheet 1 of 23
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

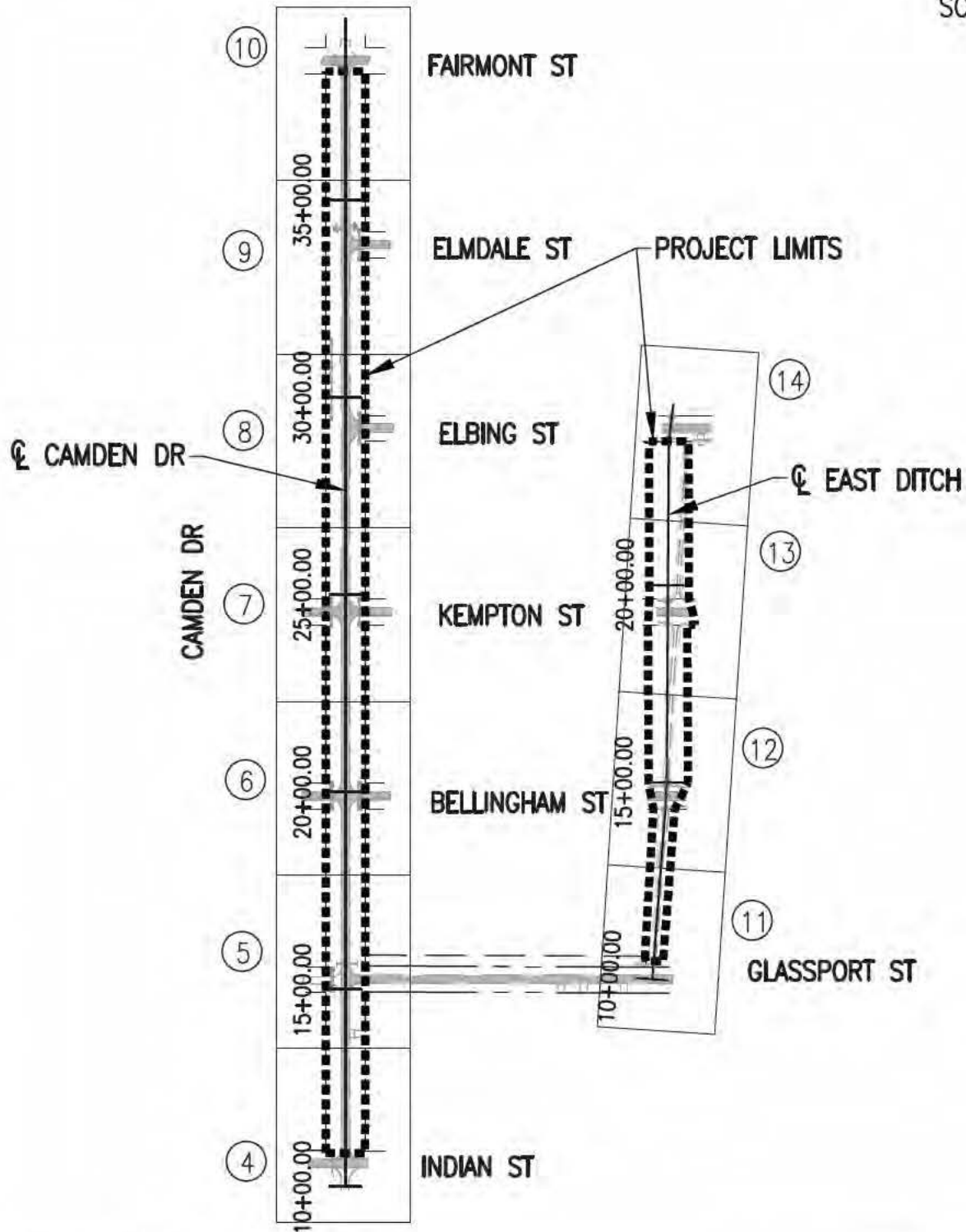
LEGEND

⑫ SHEET NUMBER



0 200' 400'

SCALE: 1" = 400'



J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

OVERALL PLAN / KEY MAP
NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS

Water Body: TOM KING BAYOU

County: SANTA ROSA COUNTY

Datum: NAVD83

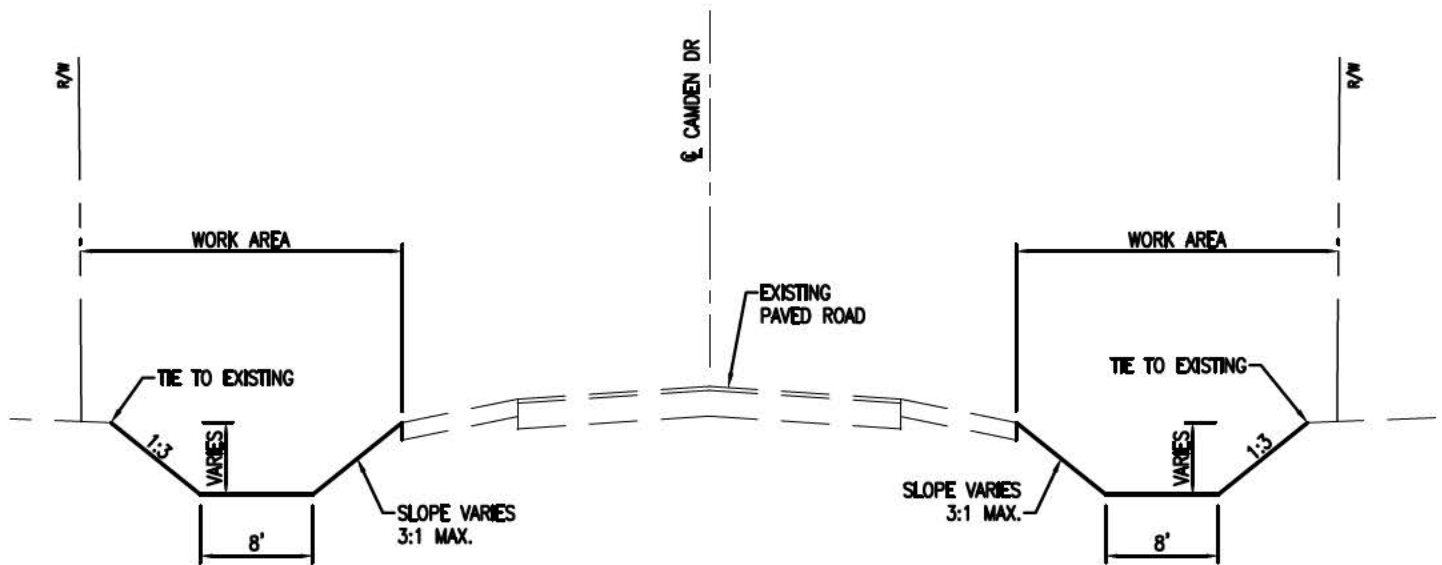
Purpose: WATER QUALITY IMPROVEMENTS

Original Work: YES Maintenance: _____

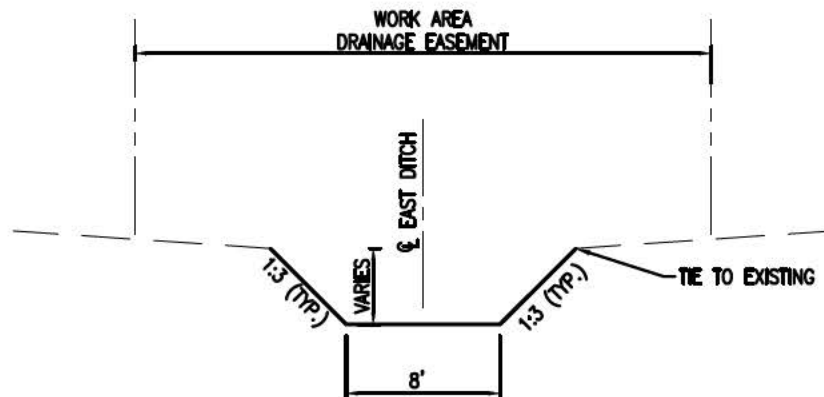
Sheet 2 of 23

Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

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CAMDEN DR TYPICAL SECTION
NOT TO SCALE



DRAINAGE DITCH TYPICAL SECTION
NOT TO SCALE

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FL Reg. Engineer #82313

NOT FOR CONSTRUCTION

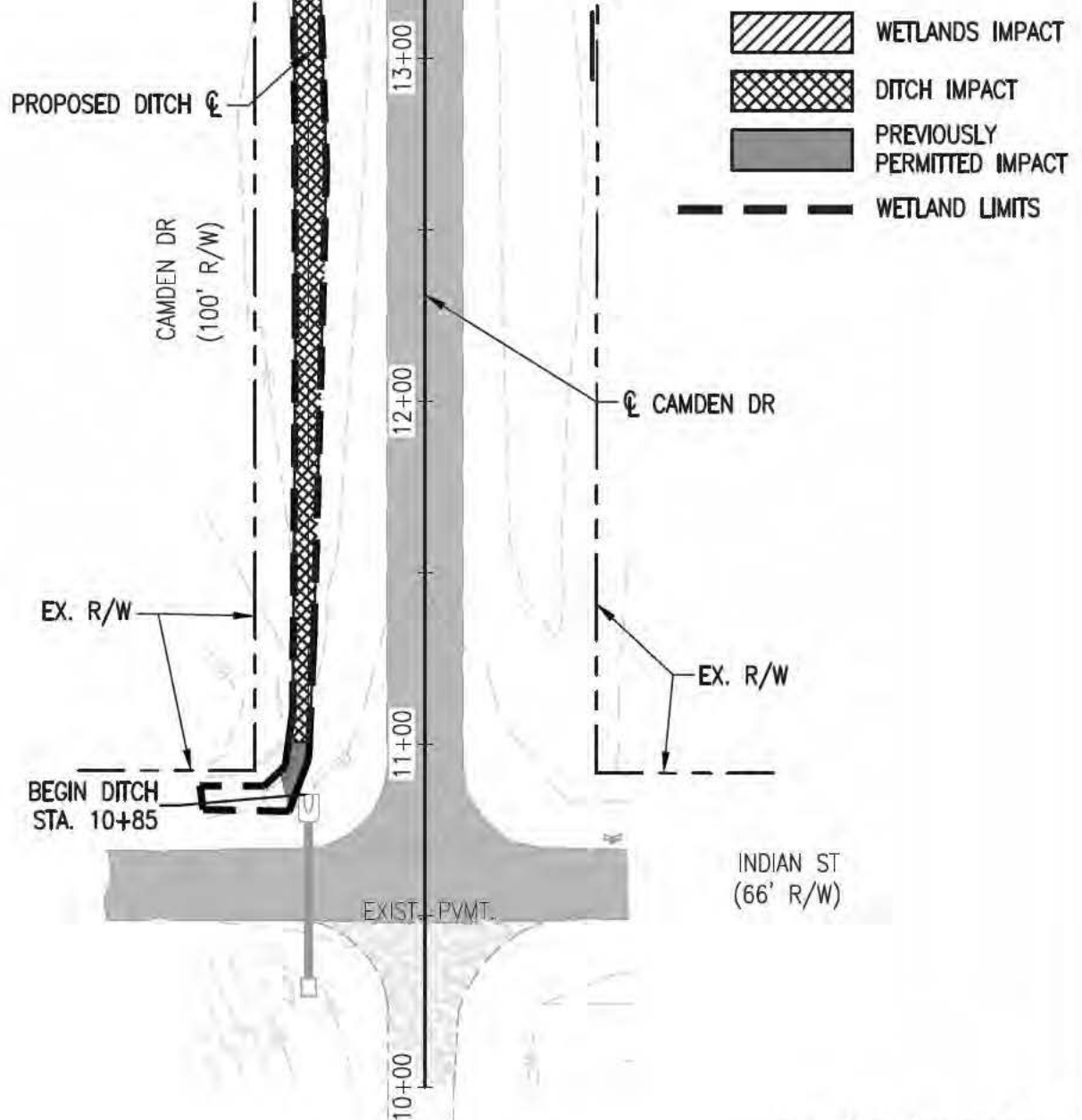
Applicant: SANTA ROSA COUNTY PUBLIC WORKS
Water Body: TOM KING BAYOU
County: SANTA ROSA COUNTY
Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
Original Work: YES Maintenance:
Sheet 3 of 23
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W



MATCHLINE SEE SHEET 5

0 25' 50'
SCALE: 1" = 50'



CUMULATIVE IMPACT AREA =
1850 SF (0.042 ACRES)
WETLAND IMPACT AREA =
0 SF (0.000 ACRES)
DITCH IMPACT AREA =
1850 SF (0.042 ACRES)

J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS
Water Body: TOM KING BAYOU
County: SANTA ROSA COUNTY
Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
Original Work: YES Maintenance: _____
Sheet 4 of 23
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

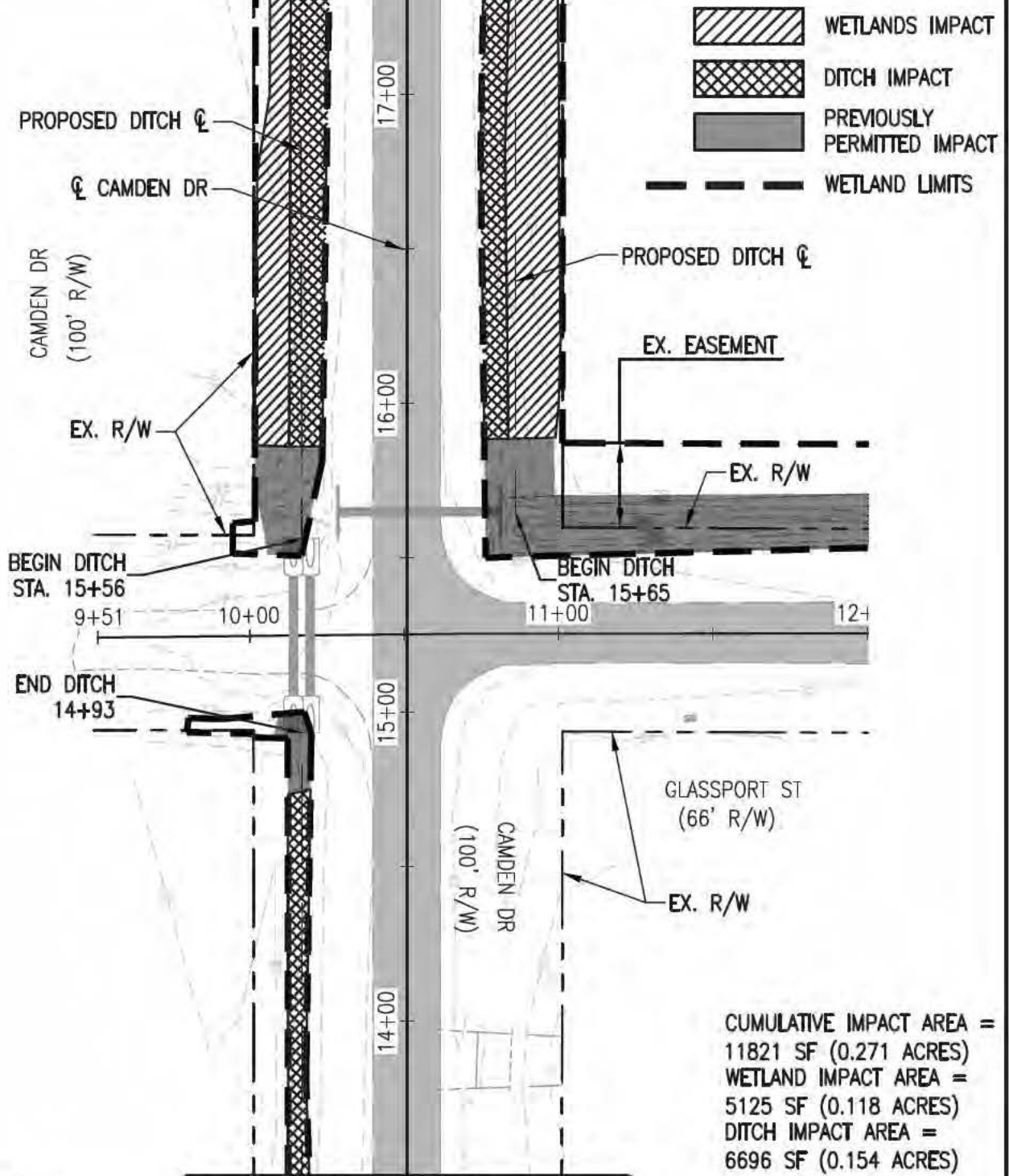
K:\143 Santa Rosa\14310.03 Camden Drive\DWG\Permit Dwg\Phase2\03-15 Plan Views.dwg, Apr 22, 2019 - 11:13:31AM, pburke

MATCHLINE SEE SHEET 6



0 25' 50'

SCALE: 1" = 50'



MATCHLINE SEE SHEET 4

J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS

Water Body: TOM KING BAYOU

County: SANTA ROSA COUNTY

Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS

Original Work: YES Maintenance: _____

Sheet 5 of 23

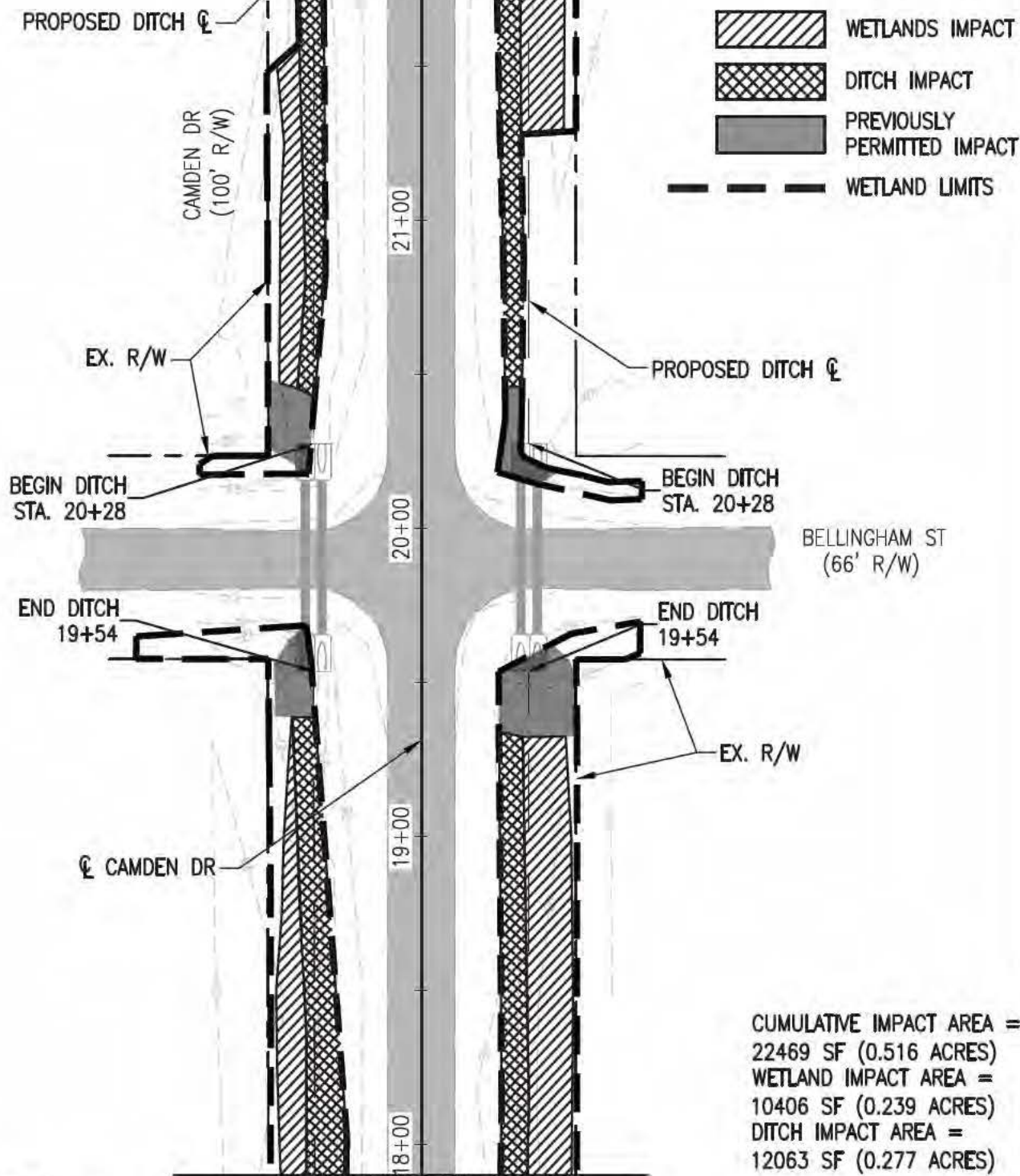
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

MATCHLINE SEE SHEET 7



0 25' 50'

SCALE: 1" = 50'



MATCHLINE SEE SHEET 5

J. PATRICK BURKE, P.E.
 FL Reg. Engineer #82313

NOT FOR CONSTRUCTION

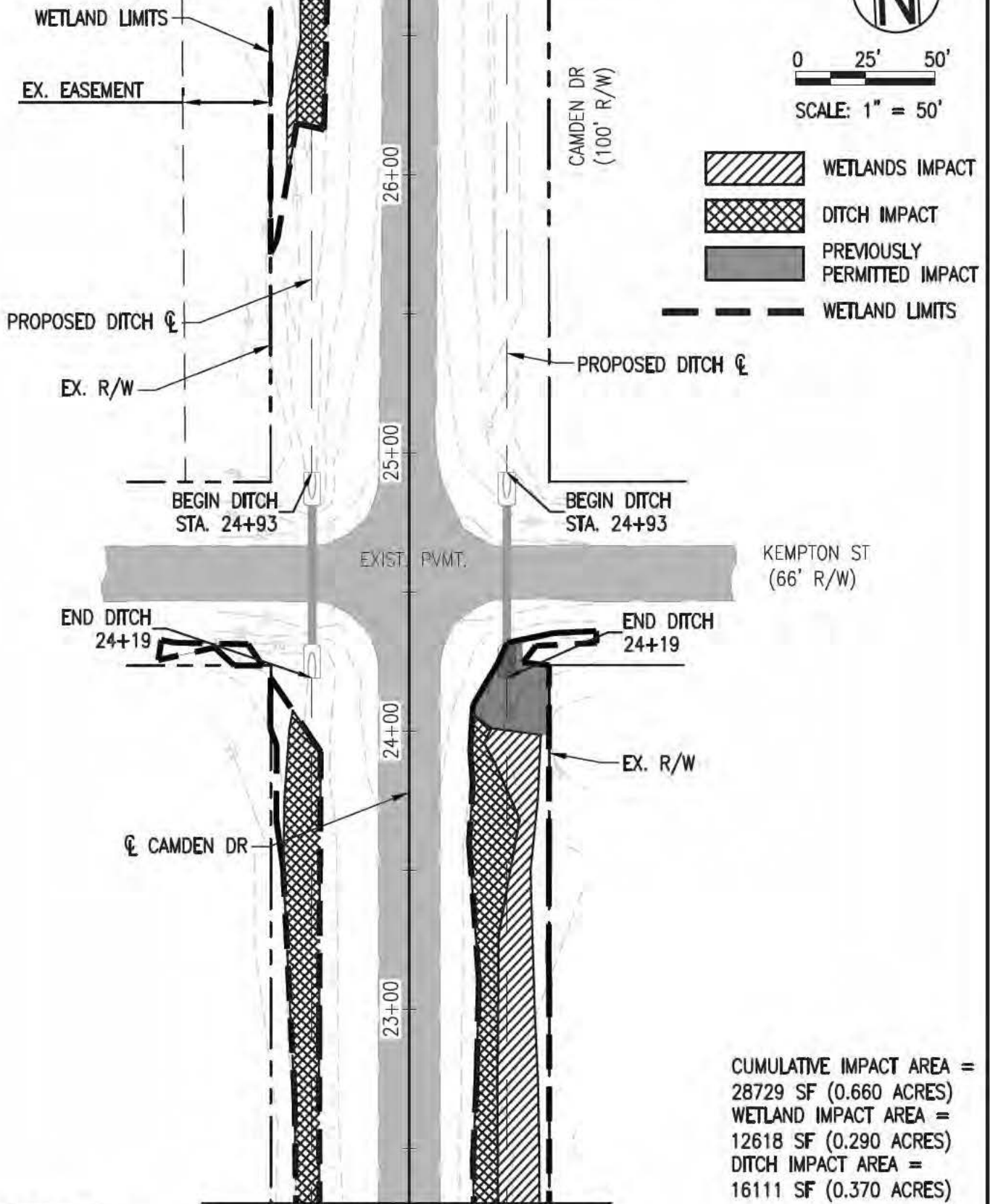
Applicant: SANTA ROSA COUNTY PUBLIC WORKS
 Water Body: TOM KING BAYOU
 County: SANTA ROSA COUNTY
 Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
 Original Work: YES Maintenance:
 Sheet 6 of 23
 Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

MATCHLINE SEE SHEET 8



0 25' 50'
SCALE: 1" = 50'



CUMULATIVE IMPACT AREA =
28729 SF (0.660 ACRES)
WETLAND IMPACT AREA =
12618 SF (0.290 ACRES)
DITCH IMPACT AREA =
16111 SF (0.370 ACRES)

J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

MATCHLINE SEE SHEET 6

NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS

Water Body: TOM KING BAYOU

County: SANTA ROSA COUNTY

Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS

Original Work: YES Maintenance:





Sheet 7 of 23

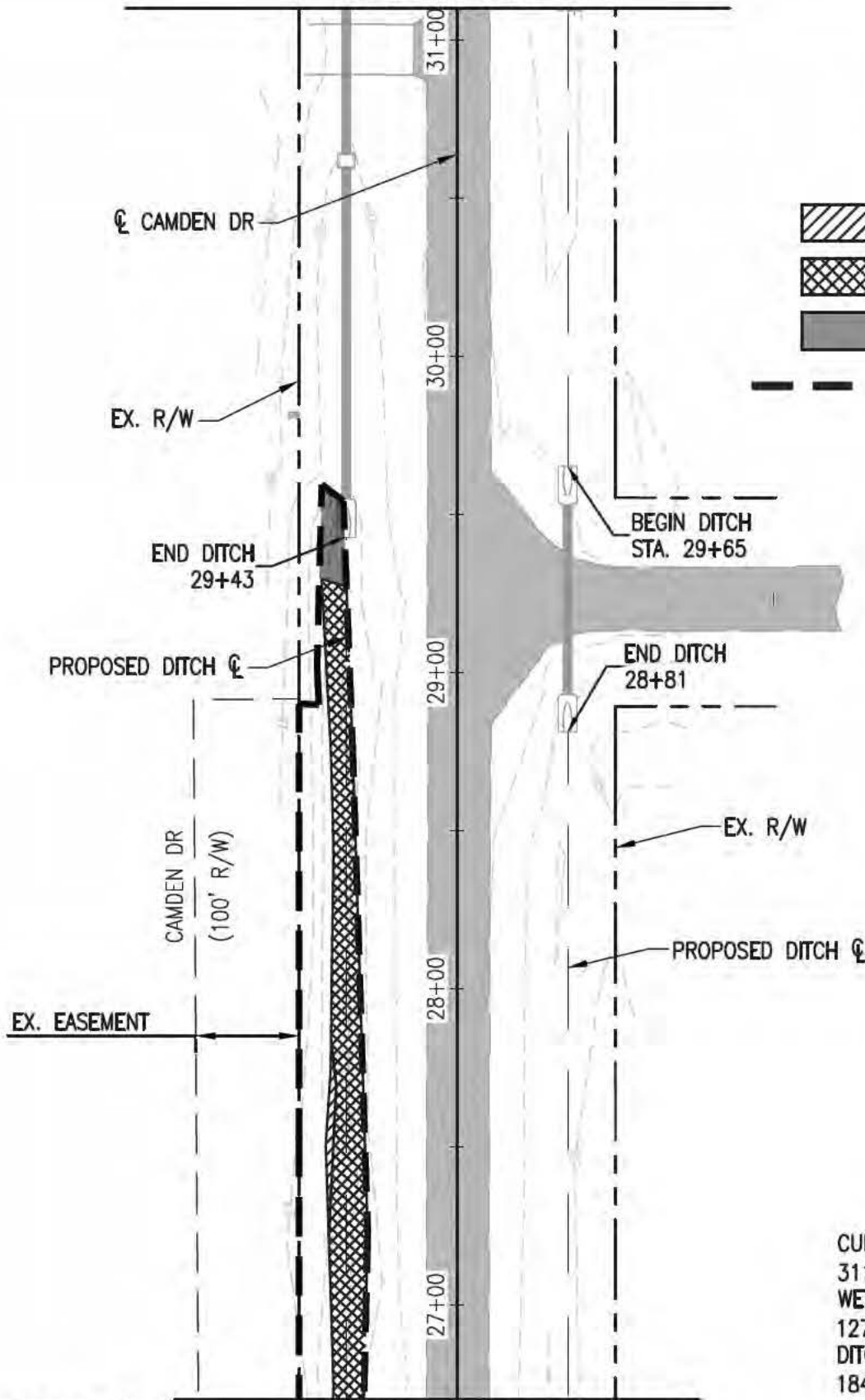
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

MATCHLINE SEE SHEET 9



0 25' 50'
SCALE: 1" = 50'

-  WETLANDS IMPACT
-  DITCH IMPACT
-  PREVIOUSLY PERMITTED IMPACT
-  WETLAND LIMITS



ELBING ST
(66' R/W)

CUMULATIVE IMPACT AREA =
31123 SF (0.714 ACRES)
WETLAND IMPACT AREA =
12709 SF (0.292 ACRES)
DITCH IMPACT AREA =
18414 SF (0.423 ACRES)

J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

MATCHLINE SEE SHEET 7

NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS
Water Body: TOM KING BAYOU
County: SANTA ROSA COUNTY
Datum: NAVD83

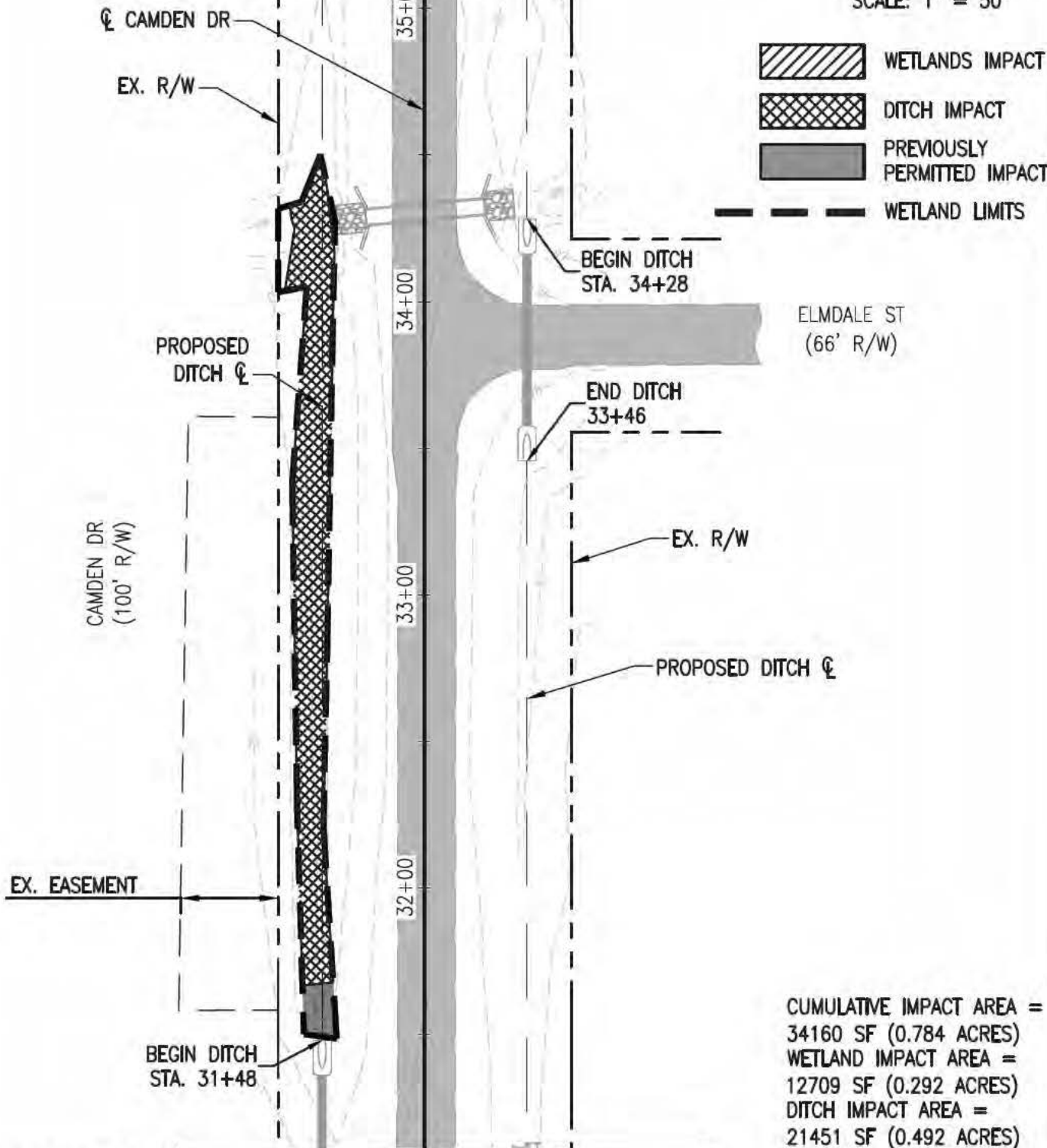
Purpose: WATER QUALITY IMPROVEMENTS
Original Work: YES Maintenance:
Sheet 8 of 23
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

MATCHLINE SEE SHEET 10



0 25' 50'

SCALE: 1" = 50'



CUMULATIVE IMPACT AREA =
 34160 SF (0.784 ACRES)
 WETLAND IMPACT AREA =
 12709 SF (0.292 ACRES)
 DITCH IMPACT AREA =
 21451 SF (0.492 ACRES)

J. PATRICK BURKE, P.E.
 FL Reg. Engineer #82313

MATCHLINE SEE SHEET 8

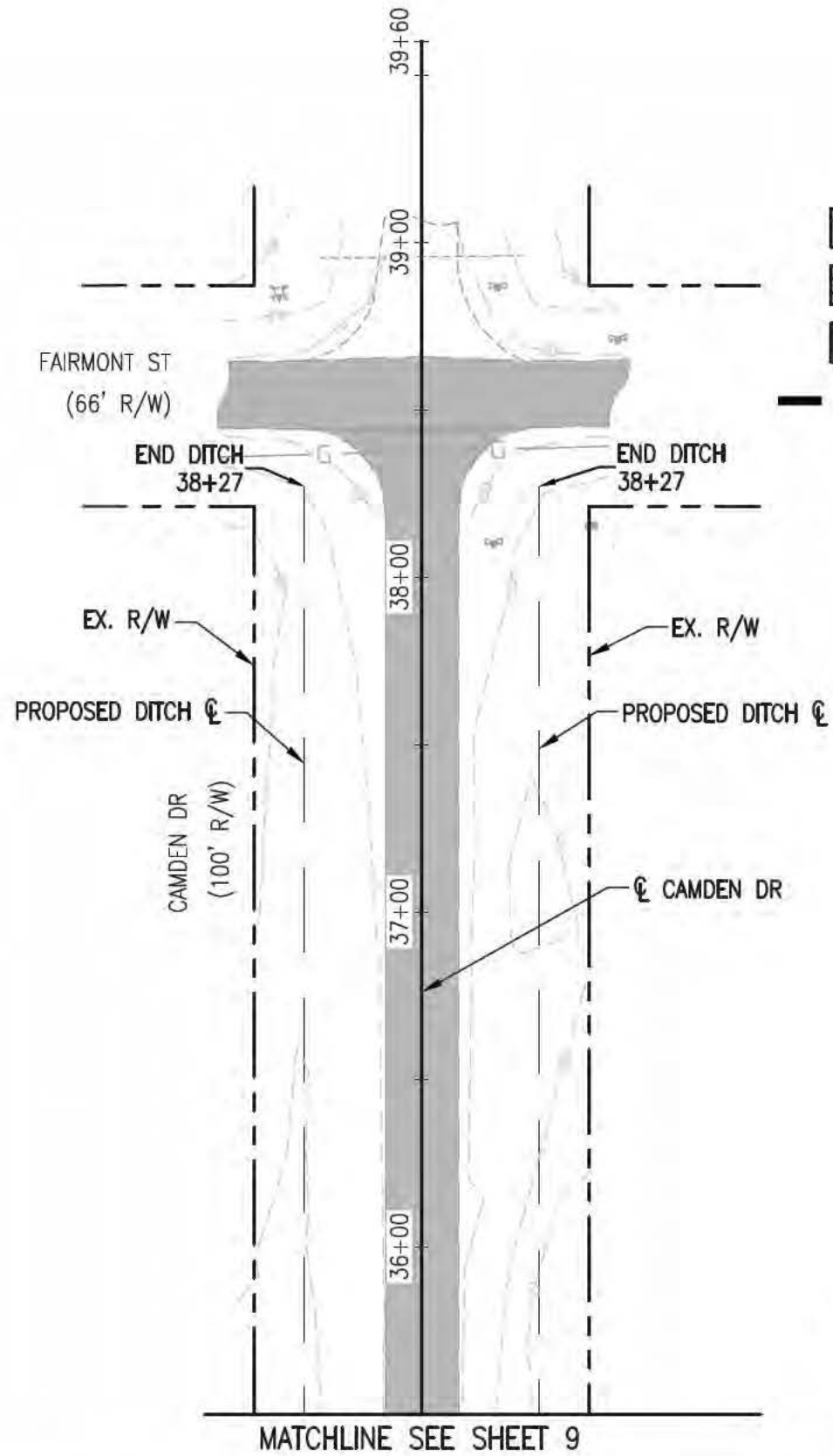
NOT FOR CONSTRUCTION





Applicant: SANTA ROSA COUNTY PUBLIC WORKS
 Water Body: TOM KING BAYOU
 County: SANTA ROSA COUNTY
 Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
 Original Work: YES Maintenance:
 Sheet 9 of 23
 Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W



0 25' 50'
SCALE: 1" = 50'



-  WETLANDS IMPACT
-  DITCH IMPACT
-  PREVIOUSLY PERMITTED IMPACT
-  WETLAND LIMITS

CUMULATIVE IMPACT AREA =
34160 SF (0.784 ACRES)
WETLAND IMPACT AREA =
12709 SF (0.292 ACRES)
DITCH IMPACT AREA =
21451 SF (0.492 ACRES)


MATCHLINE SEE SHEET 9

J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

NOT FOR CONSTRUCTION

Applicant: <u>SANTA ROSA COUNTY PUBLIC WORKS</u>	Purpose: <u>WATER QUALITY IMPROVEMENTS</u>
Water Body: <u>TOM KING BAYOU</u>	Original Work: <u>YES</u> Maintenance: <u> </u>
County: <u>SANTA ROSA COUNTY</u>	Sheet <u>10</u> of <u>23</u>
Datum: <u>NAVD83</u>	Date: <u>APR. 2019</u> S/T/R: <u>S-10/15,T-2S,R27W</u>

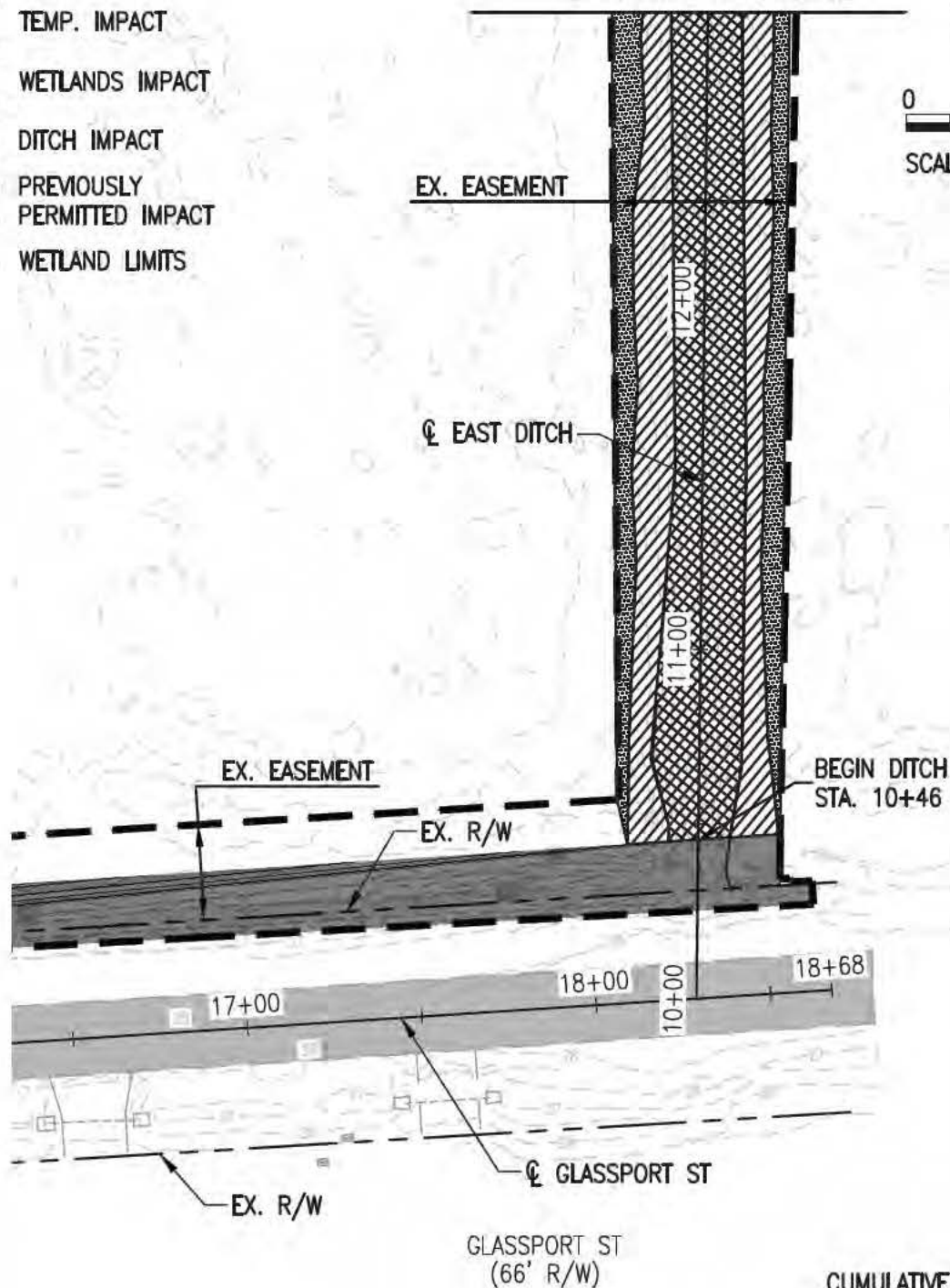
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-  TEMP. IMPACT
-  WETLANDS IMPACT
-  DITCH IMPACT
-  PREVIOUSLY PERMITTED IMPACT
-  WETLAND LIMITS

MATCHLINE SEE SHEET 12



0 25' 50'
SCALE: 1" = 50'



CUMULATIVE IMPACT AREA =
43207 SF (0.992 ACRES)
WETLAND IMPACT AREA =
16704 SF (0.383 ACRES)
DITCH IMPACT AREA =
26504 SF (0.608 ACRES)
TEMP. IMPACT AREA =
2452 SF (0.056 ACRES)

J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS
Water Body: TOM KING BAYOU
County: SANTA ROSA COUNTY
Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
Original Work: YES Maintenance: _____
Sheet 11 of 23
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

MATCHLINE SEE SHEET 13



0 25' 50'

SCALE: 1" = 50'

EX. EASEMENT

- TEMP. IMPACT
- WETLANDS IMPACT
- DITCH IMPACT
- PREVIOUSLY PERMITTED IMPACT
- WETLAND LIMITS

BEGIN DITCH
STA. 14+97

EX. R/W

BELLINGHAM ST
(66' R/W)

EX. R/W

END DITCH
14+29

Q EAST DITCH

EX. EASEMENT

CUMULATIVE IMPACT AREA =
56353 SF (1.294 ACRES)
WETLAND IMPACT AREA =
23365 SF (0.536 ACRES)
DITCH IMPACT AREA =
32988 SF (0.757 ACRES)
TEMP. IMPACT AREA =
14838 SF (0.341 ACRES)

MATCHLINE SEE SHEET 11

J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS

Water Body: TOM KING BAYOU

County: SANTA ROSA COUNTY

Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS

Original Work: YES Maintenance:

Sheet 12 of 23

Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W



MATCHLINE SEE SHEET 14

0 25' 50'

SCALE: 1" = 50'

EX. EASEMENT

CL EAST DITCH

BEGIN DITCH
STA. 19+67

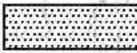


KEMPTON ST
(66' R/W)

END DITCH
18+97

EX. EASEMENT

EX. R/W

EX. R/W

-  TEMP. IMPACT
-  WETLANDS IMPACT
-  DITCH IMPACT
-  PREVIOUSLY PERMITTED IMPACT
-  WETLAND LIMITS

CUMULATIVE IMPACT AREA =
67100 SF (1.540 ACRES)
WETLAND IMPACT AREA =
27696 SF (0.636 ACRES)
DITCH IMPACT AREA =
39404 SF (0.905 ACRES)
TEMP. IMPACT AREA =
21911 SF (0.503 ACRES)

J. PATRICK BURKE, P.E.

FL Reg. Engineer #82313

MATCHLINE SEE SHEET 12

NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS

Water Body: TOM KING BAYOU

County: SANTA ROSA COUNTY

Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS

Original Work: YES Maintenance:

Sheet 13 of 23

Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W



0 25' 50'
SCALE: 1" = 50'

EX. EASEMENT



WETLANDS IMPACT



DITCH IMPACT

WETLAND LIMITS

EX. R/W

END DITCH
23+66

CL CAMDEN DR

24+00

EXIST. PVMT.

ELBING ST
(66' R/W)

EX. R/W

23+00

EX. EASEMENT

T.C.E.

22+00

MATCHLINE SEE SHEET 13

CUMULATIVE IMPACT AREA =
71288 SF (1.637 ACRES)
WETLAND IMPACT AREA =
27696 SF (0.636 ACRES)
DITCH IMPACT AREA =
43592 SF (1.001 ACRES)
TEMP. IMPACT AREA =
21911 SF (0.503 ACRES)

J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS

Water Body: TOM KING BAYOU

County: SANTA ROSA COUNTY

Datum: NAVD83

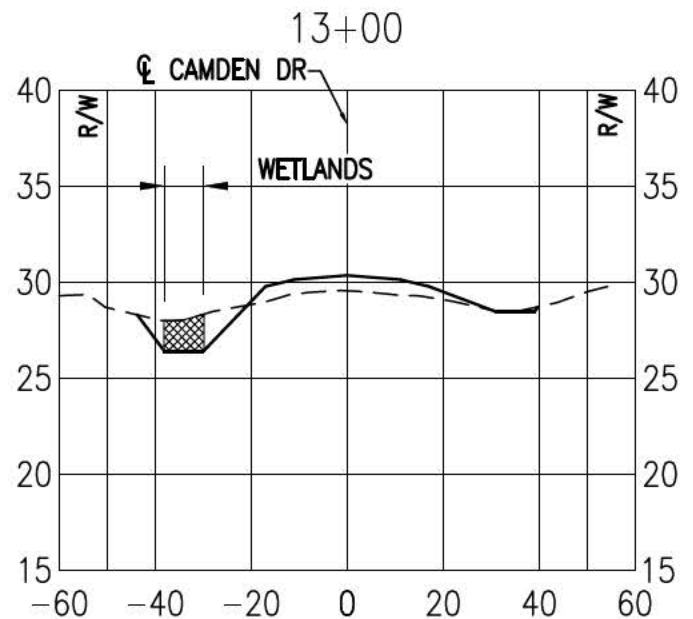
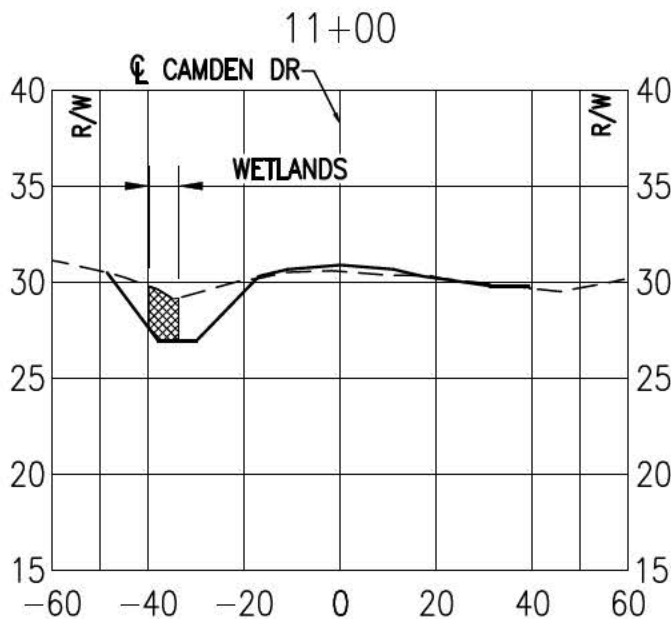
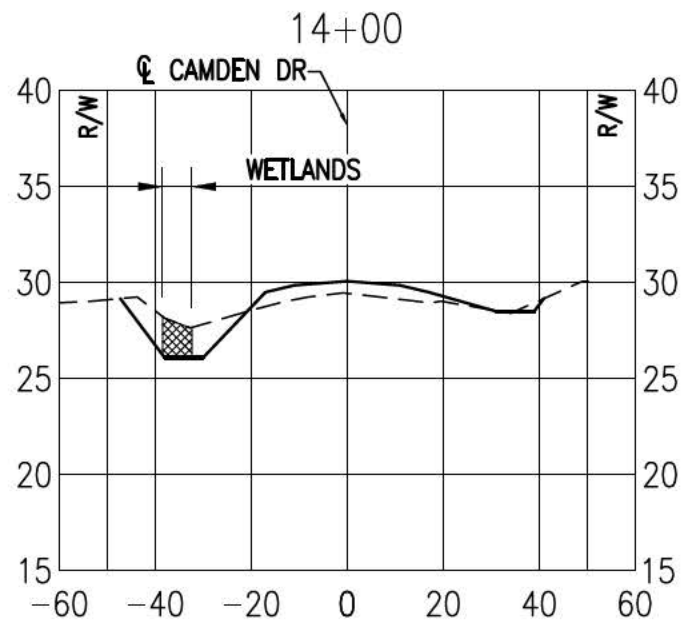
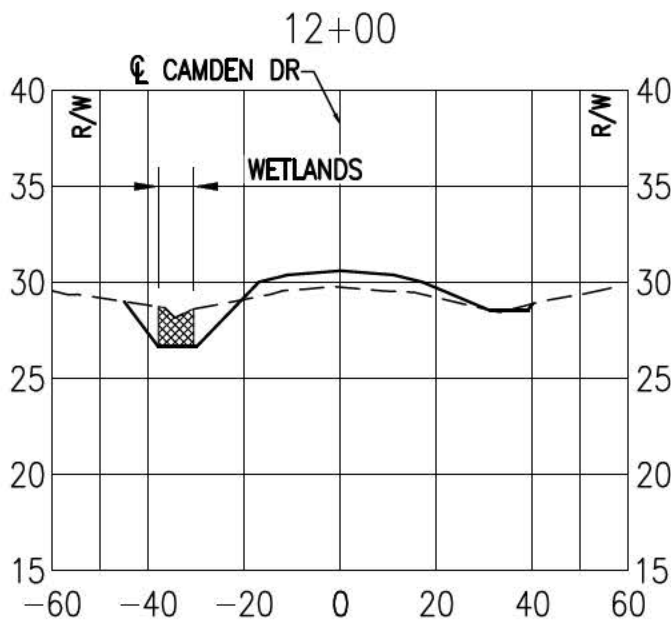
Purpose: WATER QUALITY IMPROVEMENTS

Original Work: YES Maintenance:

Sheet 14 of 23

Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

HORIZ 0 20' 40'
SCALE: 1" = 40'
VERT 0 5' 10'
SCALE: 1" = 10'



WETLAND/DITCH IMPACTS

CUMULATIVE CUT VOLUME = 153 CY

CUMULATIVE FILL VOLUME = 0 CY

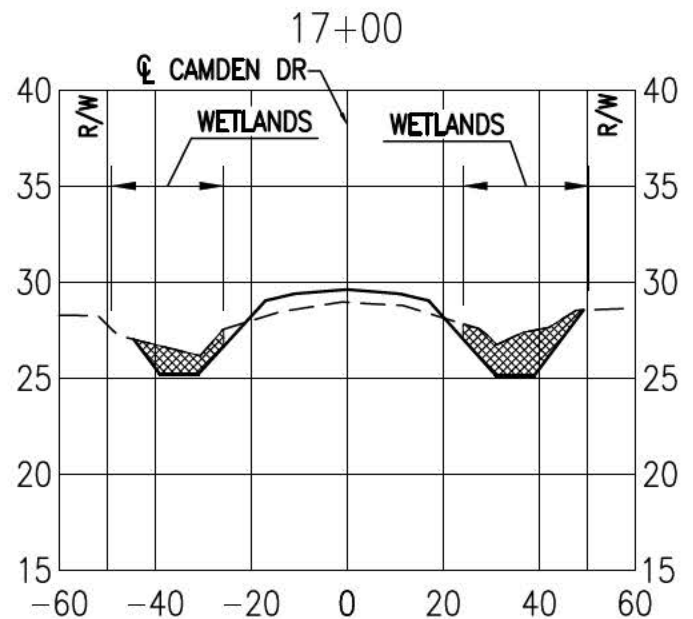
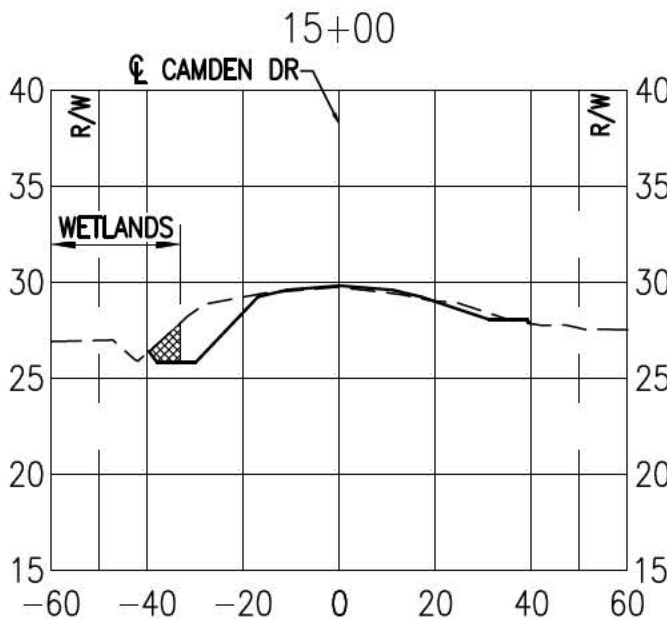
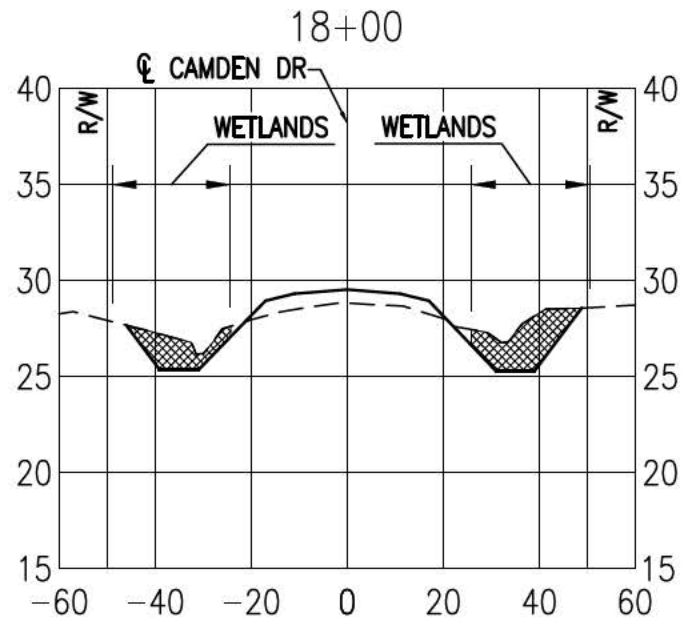
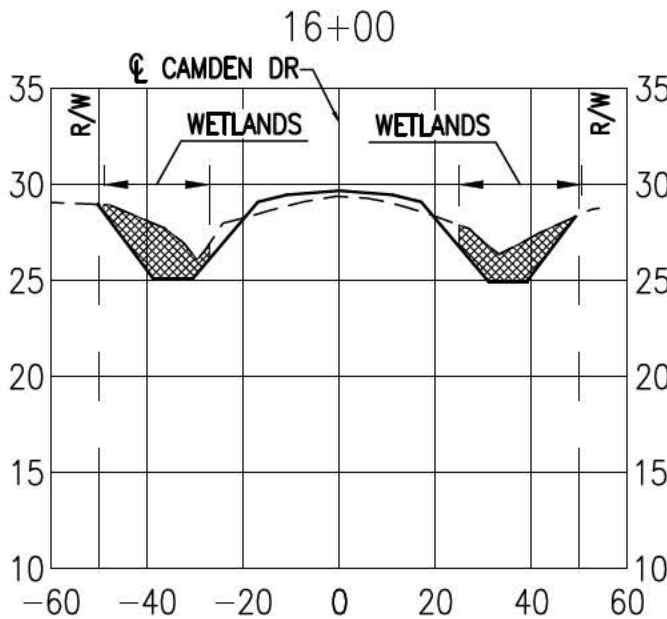
J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS
Water Body: TOM KING BAYOU
County: SANTA ROSA COUNTY
Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
Original Work: YES Maintenance:
Sheet 15 of 23
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

HORIZ 0 20' 40'
SCALE: 1" = 40'
VERT 0 5' 10'
SCALE: 1" = 10'



WETLAND/DITCH IMPACTS

CUMULATIVE CUT VOLUME = 716 CY

CUMULATIVE FILL VOLUME = 0 CY

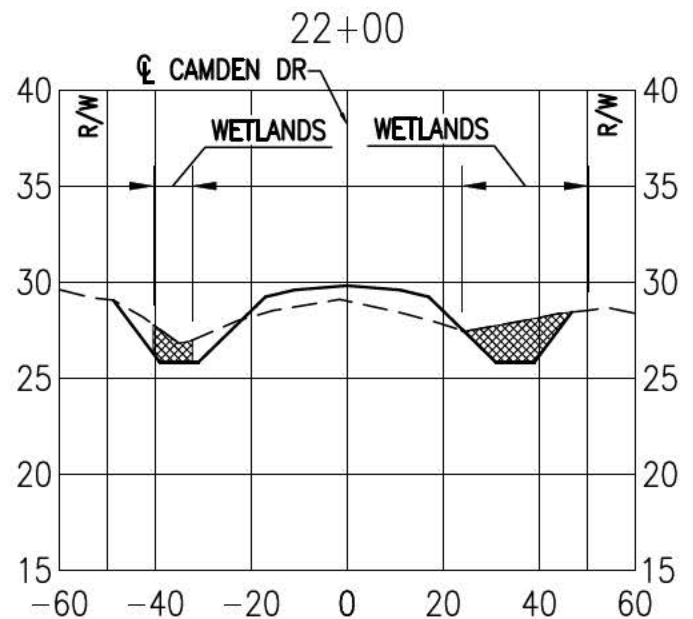
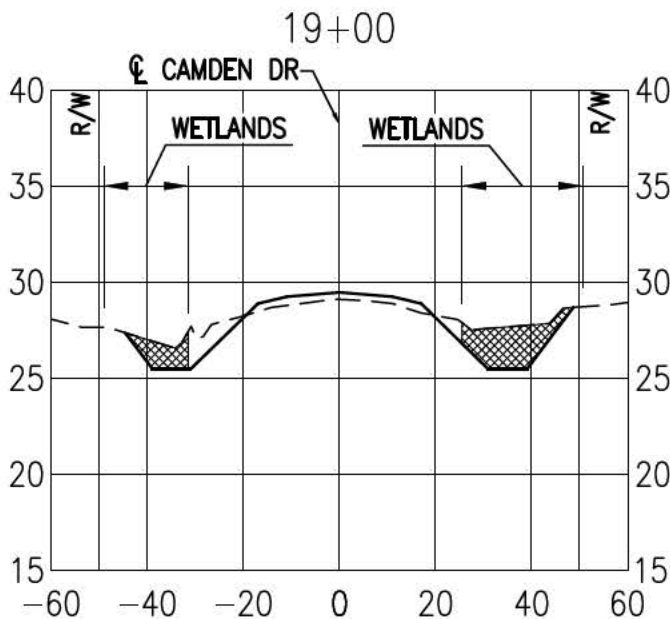
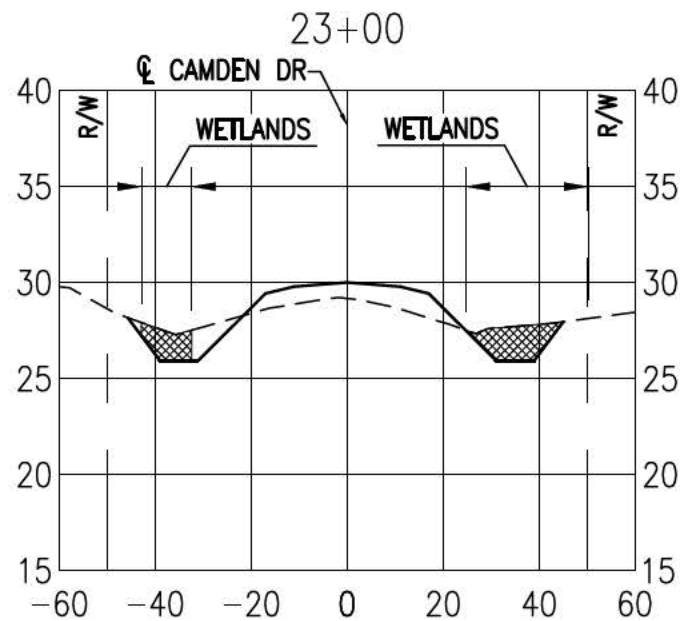
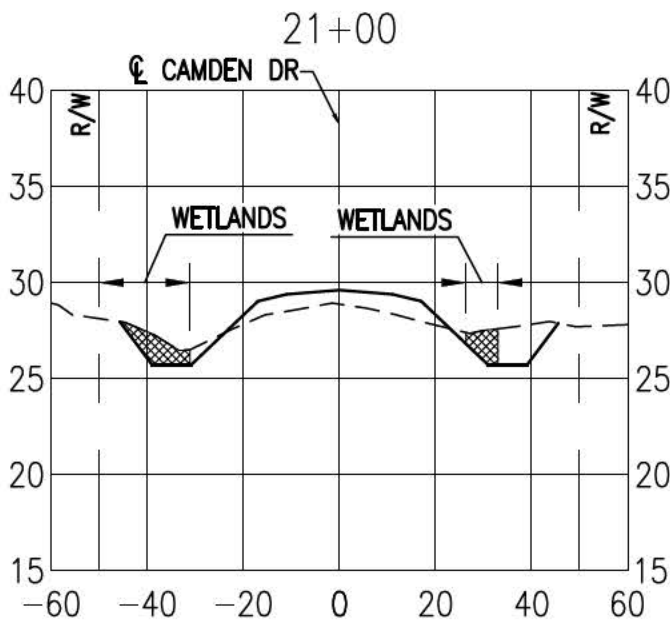
NOT FOR CONSTRUCTION

J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

Applicant: SANTA ROSA COUNTY PUBLIC WORKS
Water Body: TOM KING BAYOU
County: SANTA ROSA COUNTY
Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
Original Work: YES Maintenance: _____
Sheet 16 of 23
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

HORIZ 0 20' 40'
SCALE: 1" = 40'
VERT 0 5' 10'
SCALE: 1" = 10'



WETLAND/DITCH IMPACTS

CUMULATIVE CUT VOLUME = 1278 CY

CUMULATIVE FILL VOLUME = 0 CY

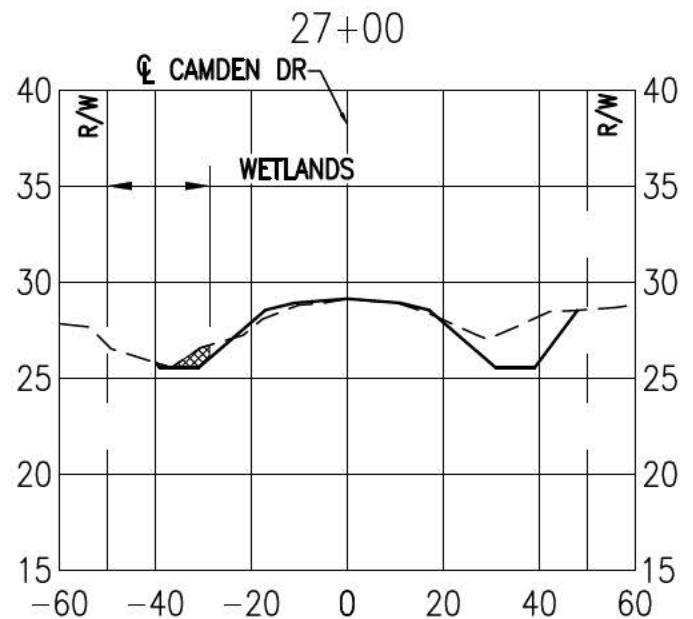
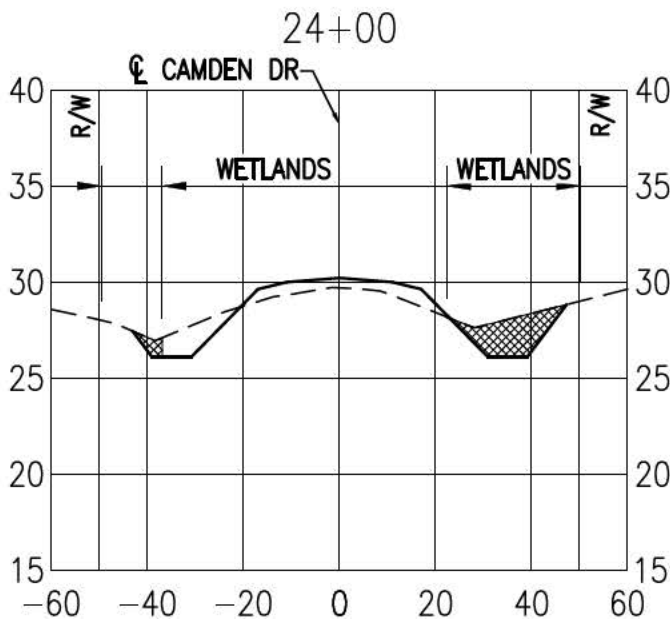
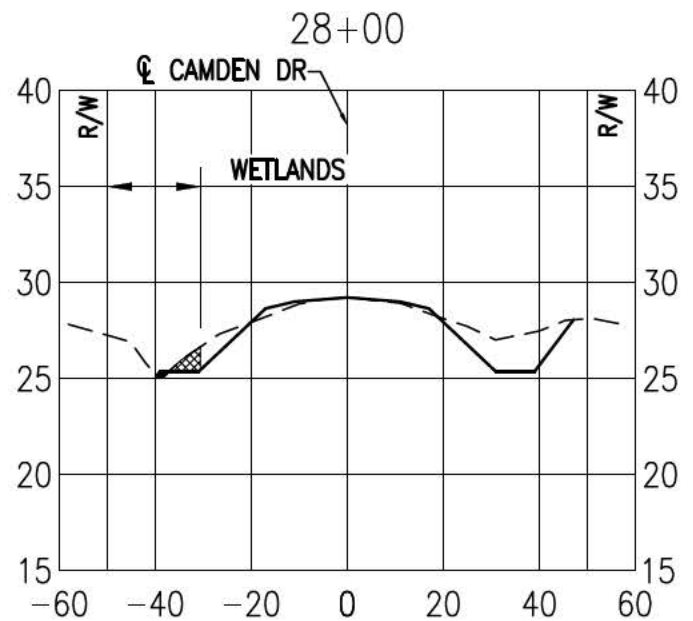
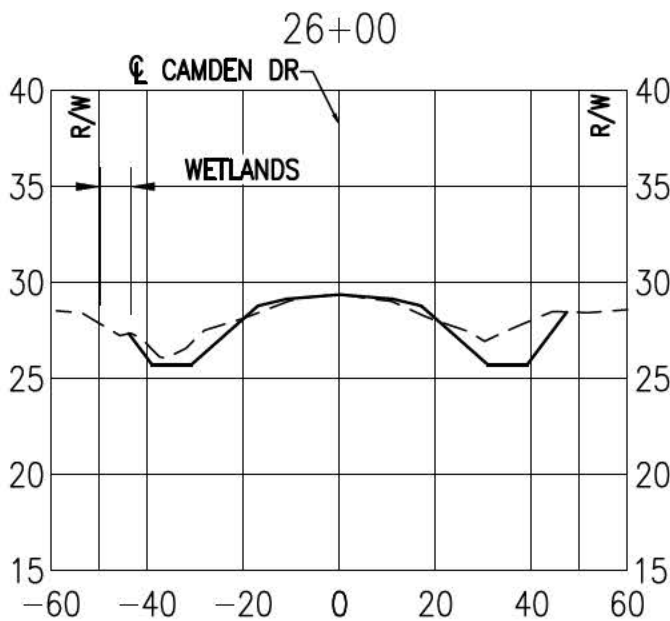
NOT FOR CONSTRUCTION

J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

Applicant: SANTA ROSA COUNTY PUBLIC WORKS
Water Body: TOM KING BAYOU
County: SANTA ROSA COUNTY
Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
Original Work: YES Maintenance:
Sheet 17 of 23
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

HORIZ 0 20' 40'
SCALE: 1" = 40'
VERT 0 5' 10'
SCALE: 1" = 10'



WETLAND/DITCH IMPACTS

CUMULATIVE CUT VOLUME = 1454 CY

CUMULATIVE FILL VOLUME = 1 CY

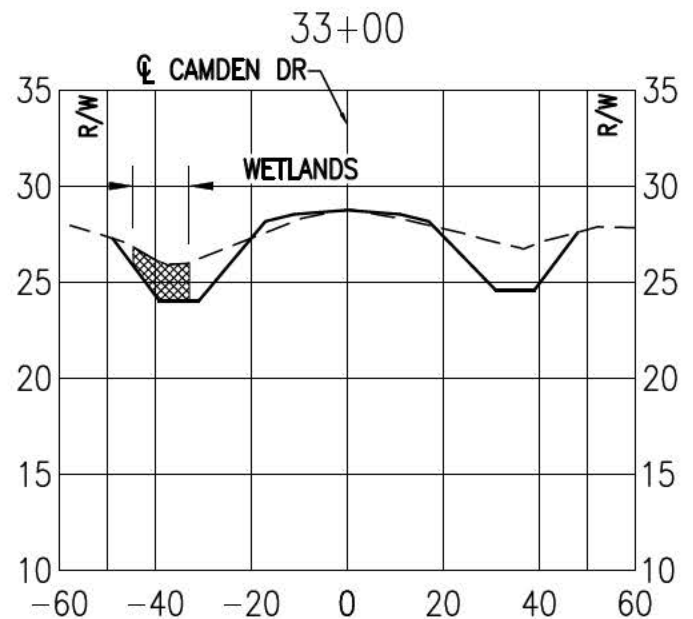
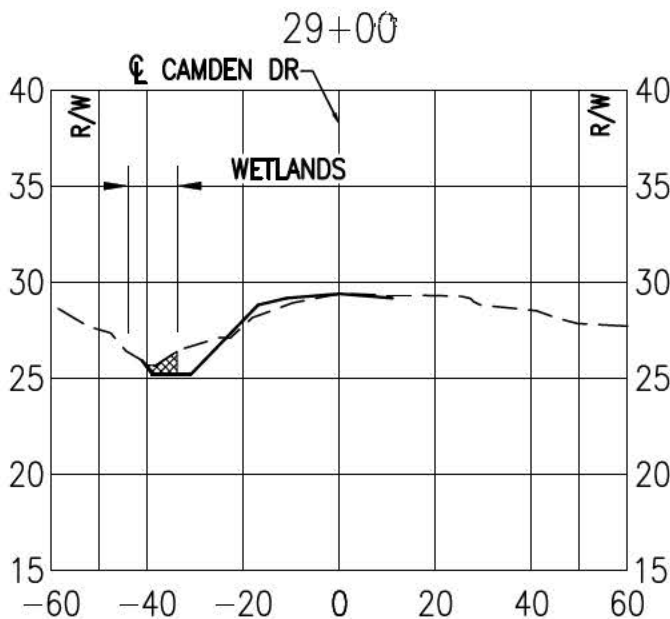
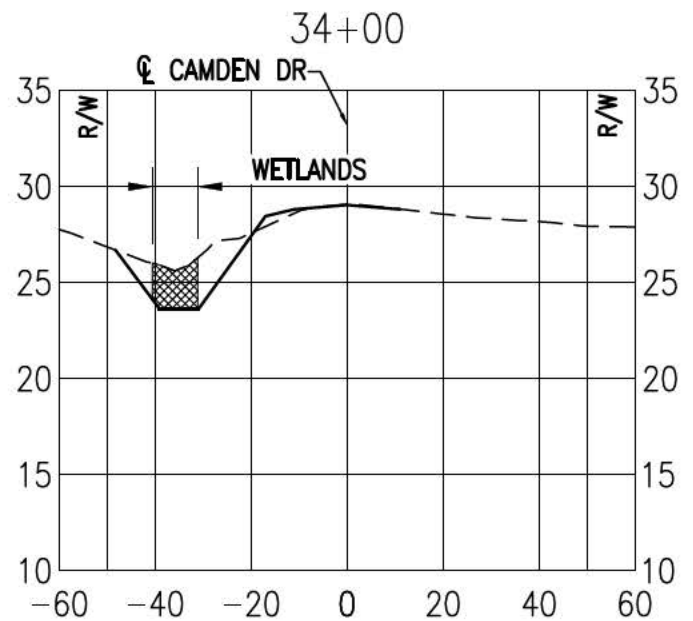
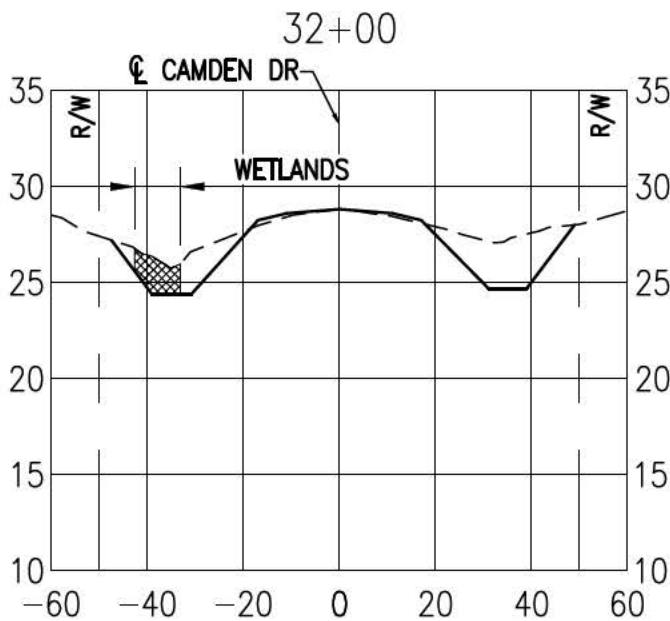
NOT FOR CONSTRUCTION

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FL Reg. Engineer #82313

Applicant: SANTA ROSA COUNTY PUBLIC WORKS
Water Body: TOM KING BAYOU
County: SANTA ROSA COUNTY
Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
Original Work: YES Maintenance:
Sheet 18 of 23
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

HORIZ 0 20' 40'
 SCALE: 1" = 40'
 VERT 0 5' 10'
 SCALE: 1" = 10'



WETLAND/DITCH IMPACTS

CUMULATIVE CUT VOLUME = 1649 CY

CUMULATIVE FILL VOLUME = 1 CY

J. PATRICK BURKE, P.E.
 FL Reg. Engineer #82313

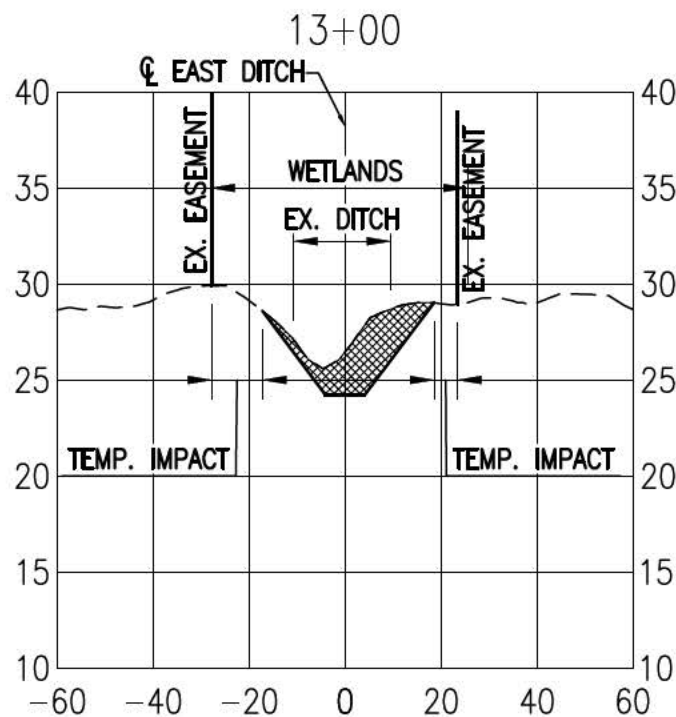
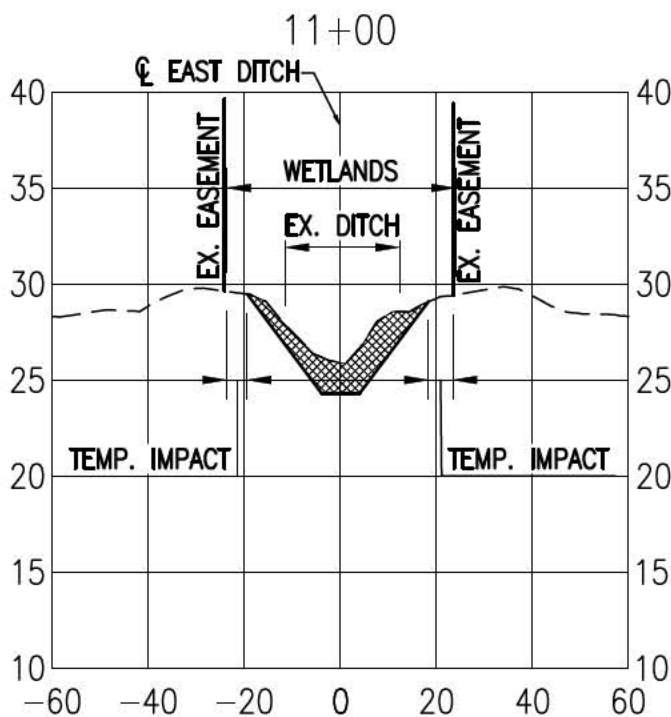
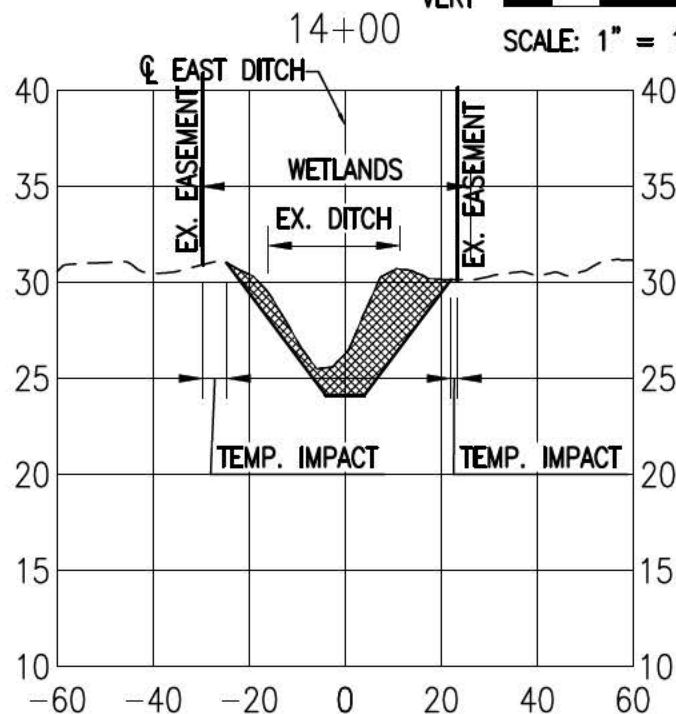
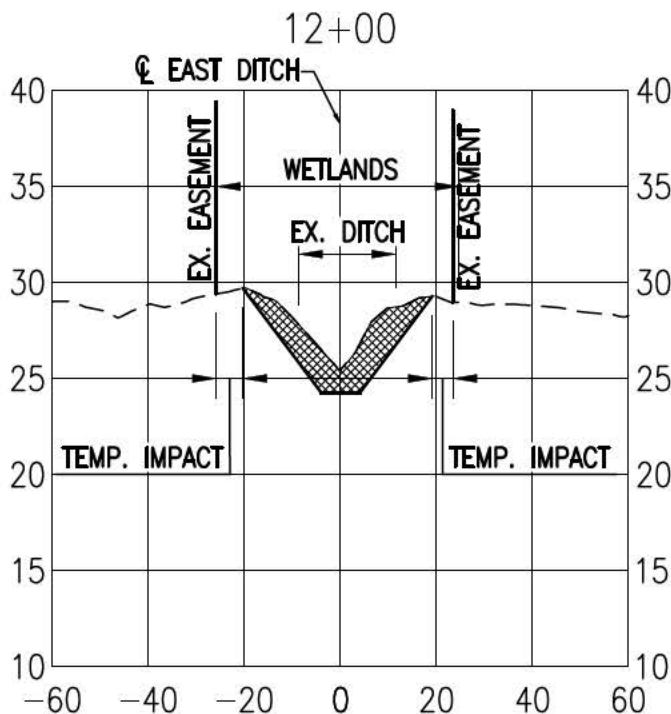
NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS
 Water Body: TOM KING BAYOU
 County: SANTA ROSA COUNTY
 Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
 Original Work: YES Maintenance: _____
 Sheet 19 of 23
 Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

K:\143 Santa Rosa\14310.03 Camden Drive\DWG\Permit Dwgs\Phase2\16-20 Sections.dwg, Apr 22, 2019 - 11:15:28AM, pburke

HORIZ 0 20' 40'
SCALE: 1" = 40'
VERT 0 5' 10'
SCALE: 1" = 10'



WETLAND/DITCH IMPACTS

CUMULATIVE CUT VOLUME = 2481 CY

CUMULATIVE FILL VOLUME = 1 CY

J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

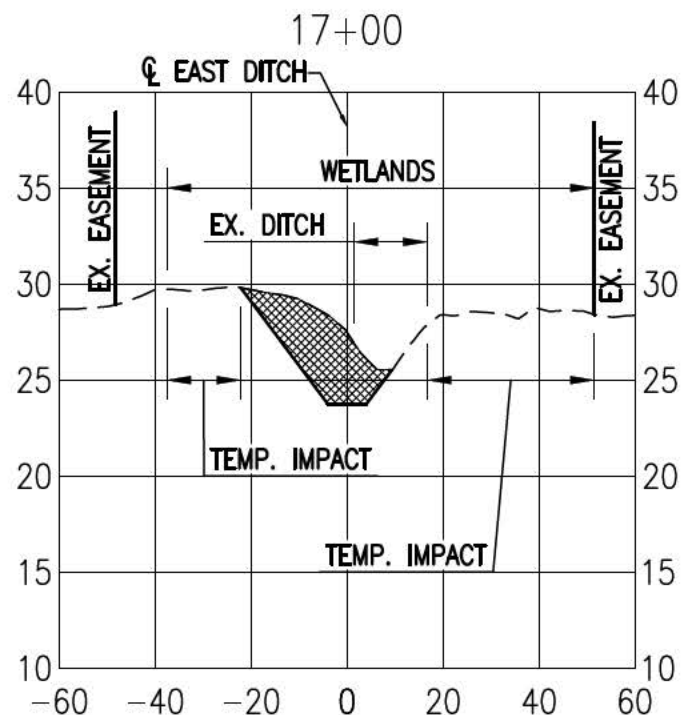
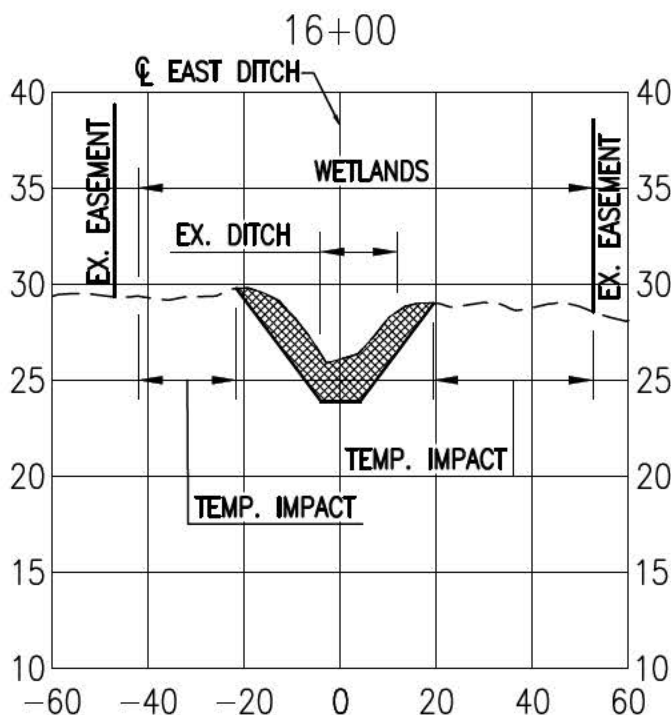
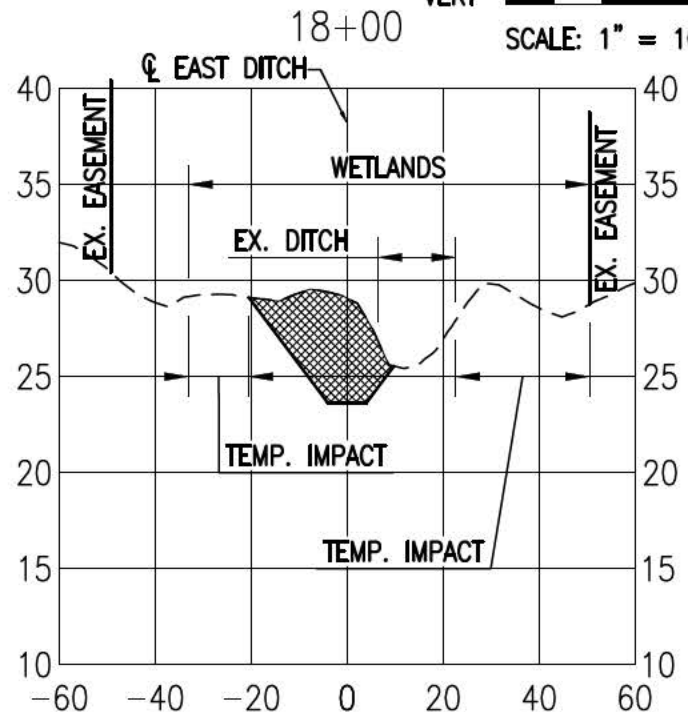
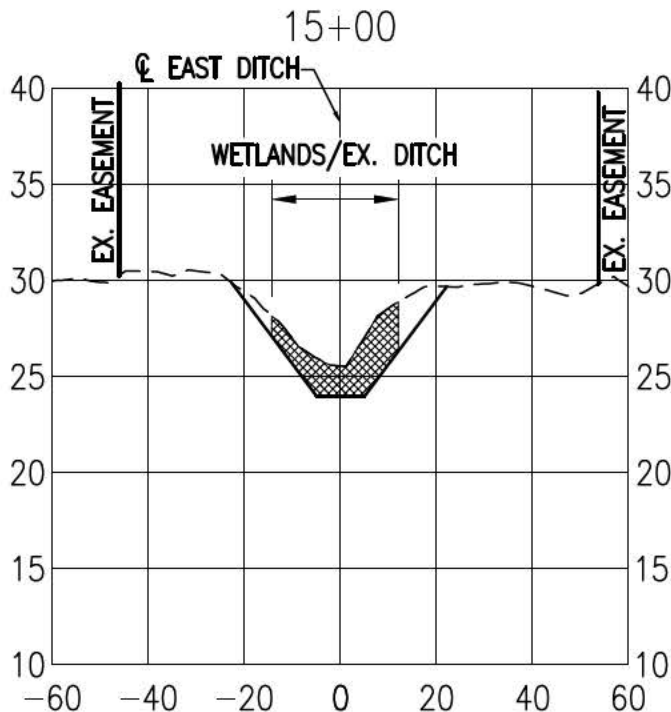
NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS
Water Body: TOM KING BAYOU
County: SANTA ROSA COUNTY
Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
Original Work: YES Maintenance:
Sheet 20 of 23
Date: APR. 2019 S/T/R: S-10/15-T-2S,R27W

K:\143 Santa Rosa\14310.03 Camden Drive\DWG\Permit Dwgs\Phase2\16-20 Sections.dwg, Apr 22, 2019 - 11:15:38AM, pburke

HORIZ 0 20' 40'
SCALE: 1" = 40'
VERT 0 5' 10'
SCALE: 1" = 10'



WETLAND/DITCH IMPACTS

CUMULATIVE CUT VOLUME = 3544 CY

CUMULATIVE FILL VOLUME = 1 CY

J. PATRICK BURKE, P.E.
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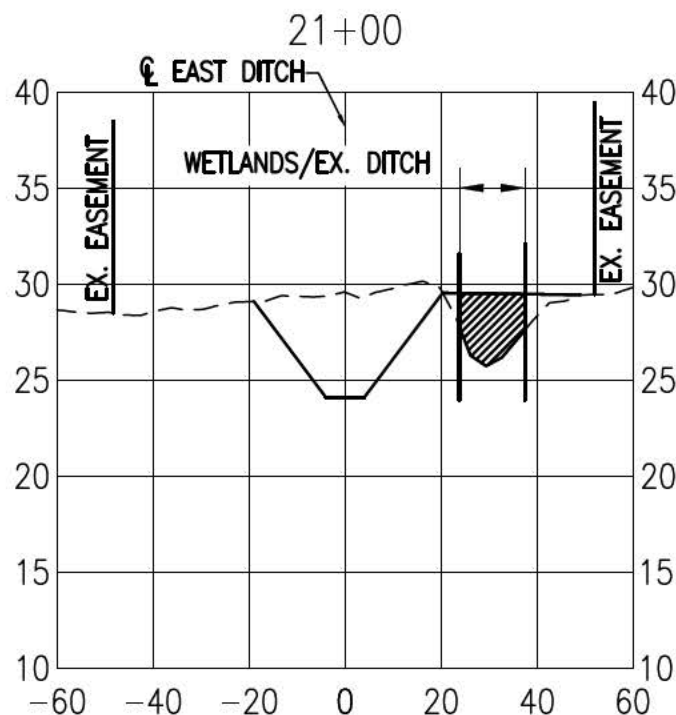
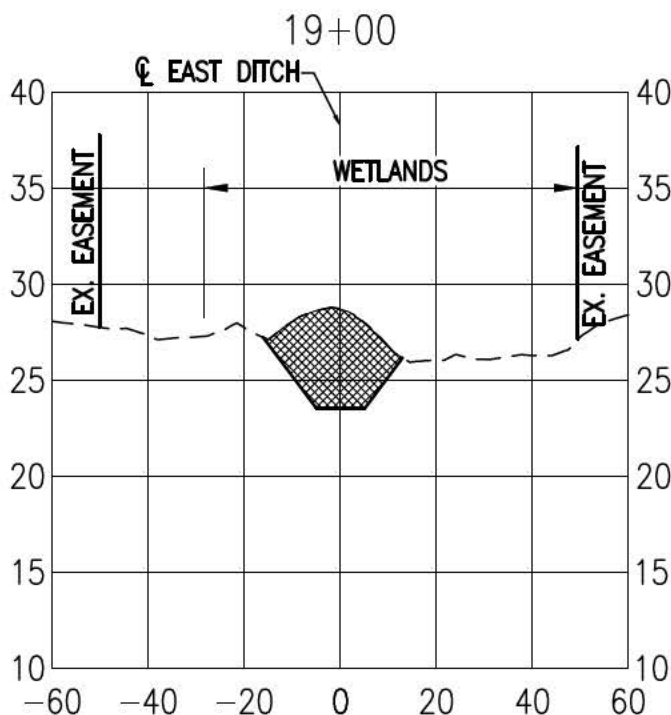
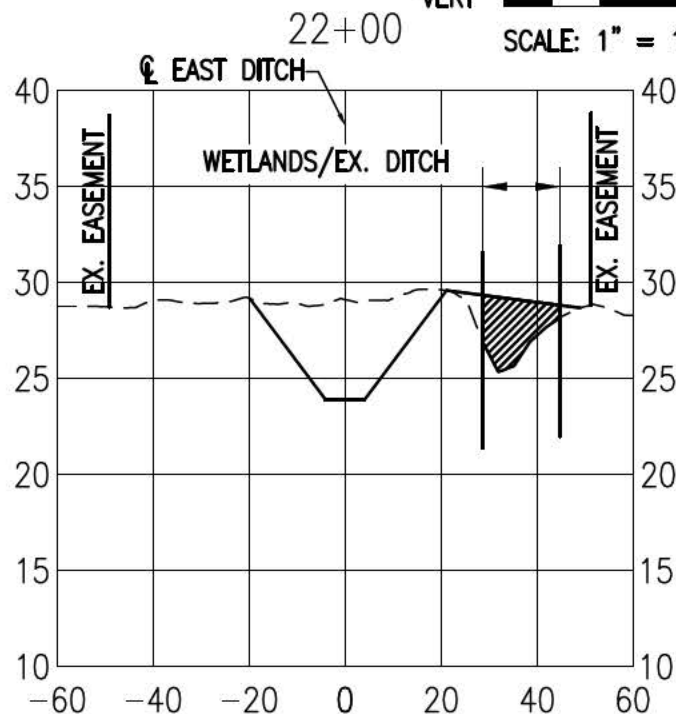
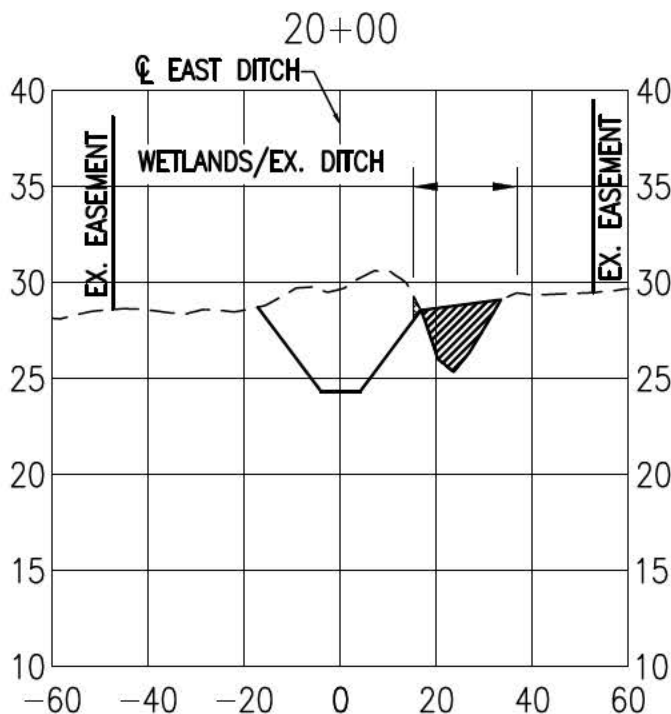
NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS
Water Body: TOM KING BAYOU
County: SANTA ROSA COUNTY
Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
Original Work: YES Maintenance:
Sheet 21 of 23
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

K:\143 Santa Rosa\14310.03 Camden Drive\DWG\Permit Dwgs\Phase2\16-20 Sections.dwg, Apr 22, 2019 - 11:15:48AM, pburke

HORIZ 0 20' 40'
SCALE: 1" = 40'
VERT 0 5' 10'
SCALE: 1" = 10'



WETLAND/DITCH IMPACTS

CUMULATIVE CUT VOLUME = 3670 CY

CUMULATIVE FILL VOLUME = 382 CY

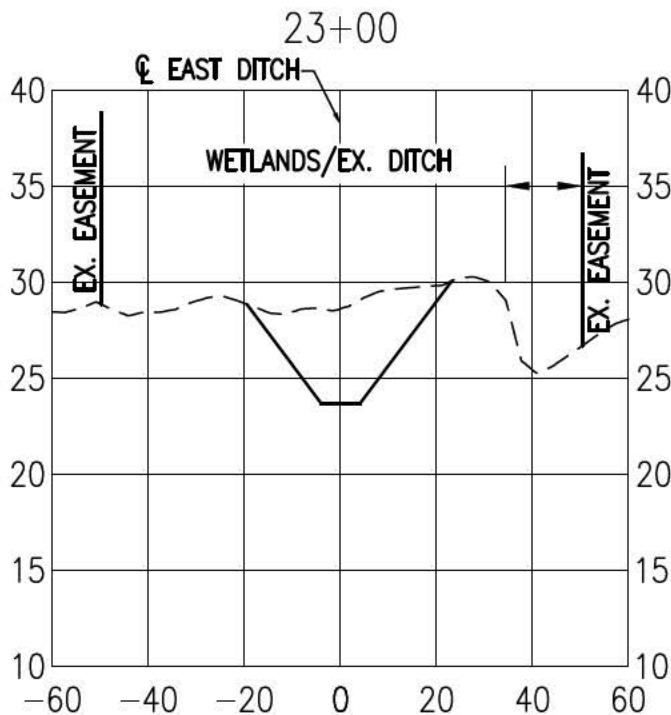
J. PATRICK BURKE, P.E.
FL Reg. Engineer #82313

NOT FOR CONSTRUCTION

Applicant: SANTA ROSA COUNTY PUBLIC WORKS
Water Body: TOM KING BAYOU
County: SANTA ROSA COUNTY
Datum: NAVD83

Purpose: WATER QUALITY IMPROVEMENTS
Original Work: YES Maintenance: _____
Sheet 22 of 23
Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

HORIZ 0 20' 40'
 SCALE: 1" = 40'
 VERT 0 5' 10'
 SCALE: 1" = 10'



WETLAND/DITCH IMPACTS

CUMULATIVE CUT VOLUME = 3670 CY

CUMULATIVE FILL VOLUME = 382 CY

J. PATRICK BURKE, P.E.
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 Sheet 23 of 23
 Date: APR. 2019 S/T/R: S-10/15,T-2S,R27W

BIOME CONSULTING GROUP UNIFORM MITIGATION ASSESSMENT METHOD

**Santa Rosa County HBTS Drainage Improvements
Proposed Impact & Mitigation
REVISED 08/16/2019**

Wetland Impact	activity	Acres	Delta	functional loss
Ditch to Ditch 1.001 acre impact	water quality	1.001	0.13	0.130
Wetland to Ditch 0.636 acre impact	water quality	0.636	0.47	0.299
Temporary Wetland 0.503 acre impact	water quality	0.503	0.13	0.065
		2.140		0.494
Wetland Mitigation	activity	credits	type	cost
Mitigation Bank Purchase	credit purchase	0.50	<i>palustrine</i>	\$17,500.00
Calculation: Mitigation Bank Purchase				
Pensacola Bay Mitigation Bank Credits needed (\$35,000 per <i>palustrine</i> credit) =		0.50	FLUCCS 625	\$17,500.00

Ditch Impacts: 1.001 AC
 New Wetland Impacts: 0.636 AC
 Total Permanent Wetland Impacts: 1.67 AC
 Total Temp Wetland Impacts - 0.503 AC
 TOTAL WORK IN WETLANDS - 2.14 AC
 Dredged material within wetlands – 3,670 CY
 Fill material within wetlands – 382 CY