



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SAVANNAH DISTRICT
100 W. OGLETHORPE AVENUE
SAVANNAH, GEORGIA 31401-3604

March 10, 2022

Regulatory Division
SAS-2006-00828

JOINT PUBLIC NOTICE
Savannah District/State of Georgia

The Savannah District 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 follows:

Application Number: SAS-2006-00828

Applicant: Mr. Eric Duff
State Environmental Administrator
Georgia Department of Transportation
600 West Peachtree Street NW, 16th Floor
Atlanta, Georgia 30308

Location of Proposed Work: The project would be located along State Route (SR) 31/SR 89/United States (US) Highway 441, from approximately 1.25 miles south of the intersection with US 221/SR 31, (Latitude 31.2516, Longitude -82.8594), north to the City of Pearson, in Atkinson County, Georgia (Latitude 31.3041, Longitude -82.8510). The project would include the construction of a new location bypass around the City of Pearson from City Street (CS) 546/Bolden Street to CS 550 Legion Avenue.

Description of Work Subject to the Jurisdiction of the U.S. Army Corps of Engineers: Georgia Department of Transportation (GDOT), Project Identification Number 422380, proposes to widen and reconstruct the existing two-lane roadway to a four-lane roadway for approximately 3.7 miles of SR 31/SR 89/US 441, on existing and new alignment, in Atkinson County. The current intersection of US 221/SR 31 and US 441/SR 89 would be realigned to the south across from County Road 16/Johnson Spikes Road. A taper south of the proposed realigned intersection would tie into the existing two-lane section of US 441/SR 89. The proposed design includes the full typical section width just south of this intersection to include a sufficient northbound left turn lane from US 441/SR 89 northbound to US 221/SR 31, and an additional length farther south to provide a cross over from the proposed four-lane with a depressed median section to the existing two-lane roadway. Starting from the southside of the proposed project for the first 1.38 miles, the proposed typical section would contain a 44-foot depressed grass median. The next 0.96 mile would consist of a 32-foot median. The remaining 1.36 miles would vary between a 20-foot raised median and a 14-foot flush median. In the city limits and near CS 546/Bolden Street, the alignment would shift onto a new location. The new location alignment would be approximately 750 feet west of the existing US 441. The roadway would shift back to US 441 and tie into the existing five-lane roadway north of

CS 550/Legion Avenue. The existing right-of-way (ROW) throughout the corridor is 100 feet. The proposed ROW throughout the corridor would range from 110 feet to 240 feet. The total disturbed acreage would be 119.78 acres. The project would impact 286 linear feet (0.065 acre) of perennial streams, 19.96 acres of wetlands, 0.01 acre of open water, and 321 linear feet (0.07 acre) of ditches.

The proposed impacts would be compensated by the purchase of 149 2018 stream mitigation credits and 134.88 grandfathered wetland mitigation credits. On June 3, 2010, a total of 410 grandfathered wetland credits were purchased from the Offerman (Marshlands, Inc., Offerman) Mitigation Bank, which has a primary service area that encompasses the Satilla River Watershed. Since no mitigation banks with sufficient stream credits are located within the primary or secondary service area for the Satilla River Watershed, GDOT proposes to purchase 149 2018 stream credits for these impacts from the Georgia-Alabama Land Trust In-Lieu Fee Program.

BACKGROUND

An Aquatic Resources Delineation Review was completed for the project on April 9, 2021.

This Joint Public Notice announces a request for authorizations from both the U.S. Army Corps of Engineers and the State of Georgia. The applicant's proposed work may also require local governmental approval.

STATE OF GEORGIA

Water Quality Certification: The Georgia Department of Natural Resources, Environmental Protection Division, will review the proposed project for water quality certification, in accordance with the provisions of Section 401 of the Clean Water Act. Prior to issuance of a Department of the Army permit for a project location in, on, or adjacent to the waters of the State of Georgia, review for Water Quality Certification is required. A reasonable period of time, which shall not exceed one year, is established under the Clean Water Act for the State to act on a request for Water Quality Certification, after which, issuance of such a Department of the Army permit may proceed.

State-owned Property and Resources: The applicant may also require assent from the State of Georgia, which may be in the form of a license, easement, lease, permit or other appropriate instrument.

U.S. ARMY CORPS OF ENGINEERS

The Savannah District must consider the purpose and the impacts of the applicant's proposed work, prior to a decision on issuance of a Department of the Army Permit.

Cultural Resources Assessment: Two National Register of Historic Places (NRHP) eligible historic properties were identified within the proposed project's Area of Potential Effects: The Corbitt Farm House and Pearson Historic District. The Corps has determined the project would have "no adverse effect" on the Corbitt Farm House and an "Adverse Effect" on the Pearson Historic District. Avoidance and minimization measures were implemented during the planning and design phase to minimize harm to historic properties to the maximum extent possible. Within and adjacent to the Pearson Historic District, the proposed project has been designed to minimize environmental impacts by constructing a new location in-town bypass on the west side of the district rather than widening US 441/SR 31/SR 89 (Main Street) through the center of Pearson. Work on existing US 441/SR 31/SR 89 (Main Street) has also been limited to milling and inlay within the existing road surface along the majority of its length within the city limits.

The use of orange barrier fencing has been incorporated into the design of the proposed project near the Corbitt Farm House and the Pearson Historic District in order to limit the extent of construction and ground-disturbing activity within the eligible NRHP boundaries. In a letter dated February 16, 2022, the Historic Preservation Division (HPD) concurred that the Corbitt Farm House and Pearson Historic District are eligible for listing in the NRHP. The HPD concurred that the project would have "no adverse effect" to the Corbitt Farm House and "adverse effect" to the Pearson Historic District within the Corps permit areas. The draft Memorandum of Agreement (MOA), along with additional documentation has been submitted to the HPD and the Advisory Council on Historic Preservation for the adversely affected Pearson Historic District. The HPD concurred with the stipulations proposed as described in a draft MOA. A final draft of the MOA is currently pending final reviews and signatures. No archaeological sites eligible or recommended eligible for NRHP are located within the project area.

Endangered Species: According to the U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Consultation list of endangered and threatened species, the following federal-listed species may occur within the project area: wood stork (*Mycteria americana*) and eastern indigo snake (*Drymarchon corais couperi*).

An effect determination of "may affect, not likely to adversely affect" has been made for the wood stork and eastern indigo snake. The USFWS concurred with the determinations for wood stork and eastern indigo snake by a letter dated March 3, 2022. Additionally, the Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) is included in the USFWS Hydrologic Unit Code 10 Watershed Report and is under jurisdiction of National

Oceanic and Atmospheric Administration Fisheries, therefore, has been included. A determination of “no effect” has been made for the Atlantic sturgeon.

Pursuant to Section 7(c) of the Endangered Species Act of 1973, as amended (16 U.S.C. § 1531 et seq.), we request information from the U.S. Department of the Interior, Fish and Wildlife Service, the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service; or, any other interested party, on whether any species listed or proposed for listing may be present in the area.

Public Interest Review: 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 benefit, 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, historic properties, fish and wildlife values, flood hazards, flood plain 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.

Consideration of Public Comments: The Corps is soliciting comments from the public; federal, state, and local agencies and officials; Native American 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.

Application of Section 404(b)(1) Guidelines: The proposed activity involves the discharge of dredged or fill material into the waters of the United States. The Savannah District's evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under the authority of Section 404(b) of the Clean Water Act.

Public Hearing: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application for a Department of the Army permit. Requests for public hearings shall state, with particularity, the reasons for requesting a public hearing. The decision whether to hold

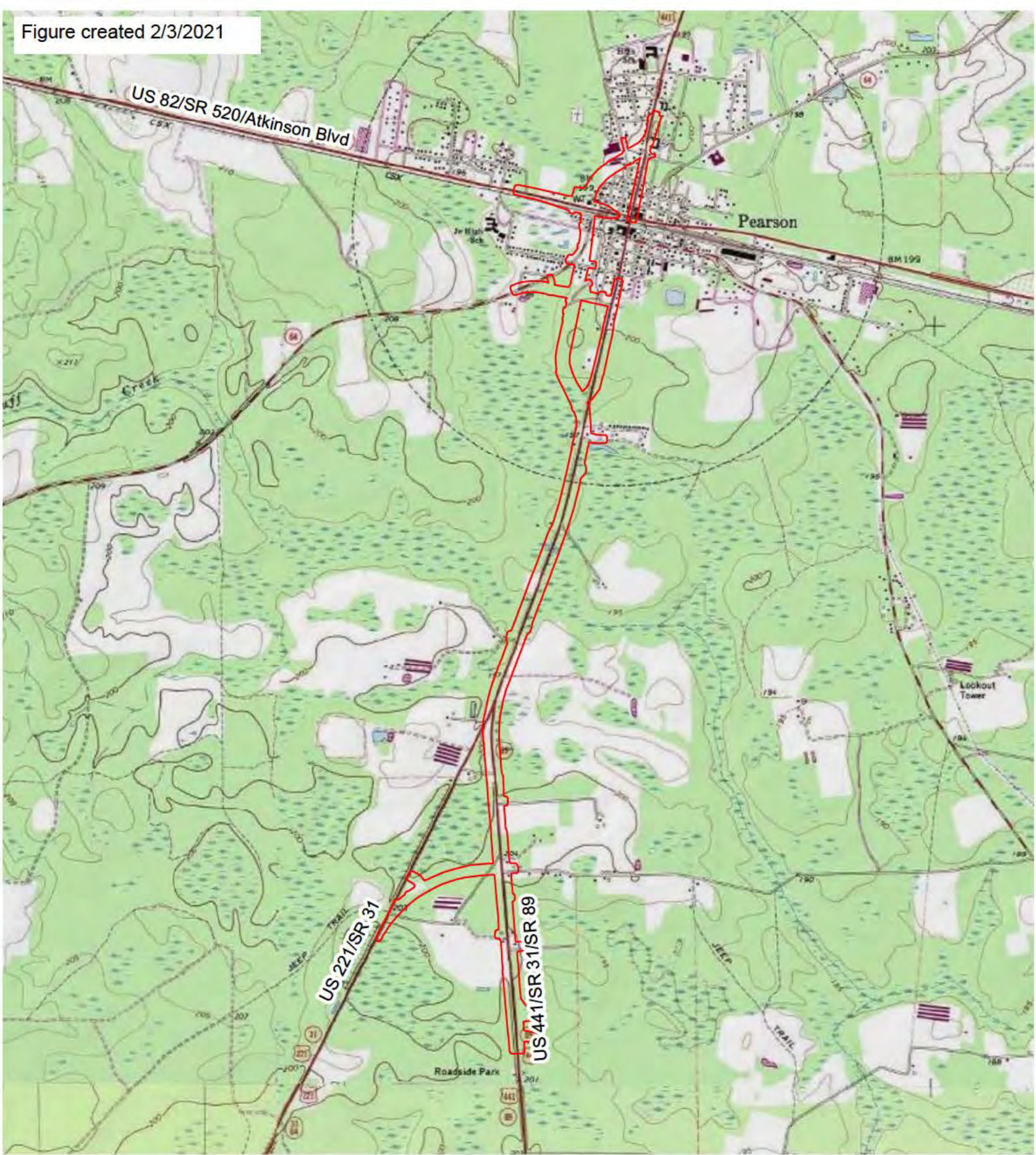
a public hearing is at the discretion of the District Engineer, or his designated appointee, based on the need for additional substantial information necessary in evaluating the proposed project.

Comment Period: Anyone wishing to comment on this application for a Department of the Army Permit should submit comments by email to tyrone.s.ragan@usace.army.mil. Alternatively, you may submit comments in writing to the Commander, U.S. Army Corps of Engineers, Savannah District, Attention: Mr. Tyrone Ragan, 1104 North Westover Boulevard, Unit 9, Albany, Georgia 31707, within 30 days from the date of this notice. Please refer to the applicant's name and the application number in your comments.

If you have any questions concerning this matter, please contact Mr. Tyrone Ragan, Regulatory Specialist, Management Branch, at 229-430-8566.

Enclosures

1. Project Vicinity Map
2. Construction Plans with Wetland and Stream Impacts



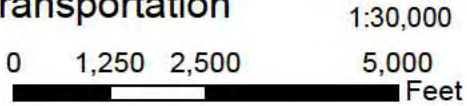
Atkinson County

Figure 1 Project Vicinity Map

Georgia Department of Transportation
P.I. # 422380
Atkinson County, GA



Legend
[Red Outline] Survey Area

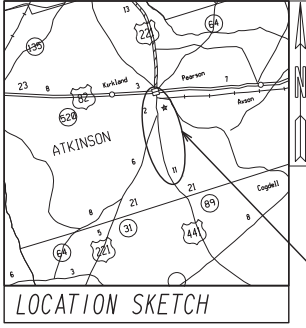
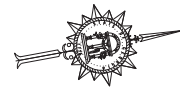


DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	EDS00-0441-00(041)		

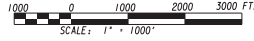
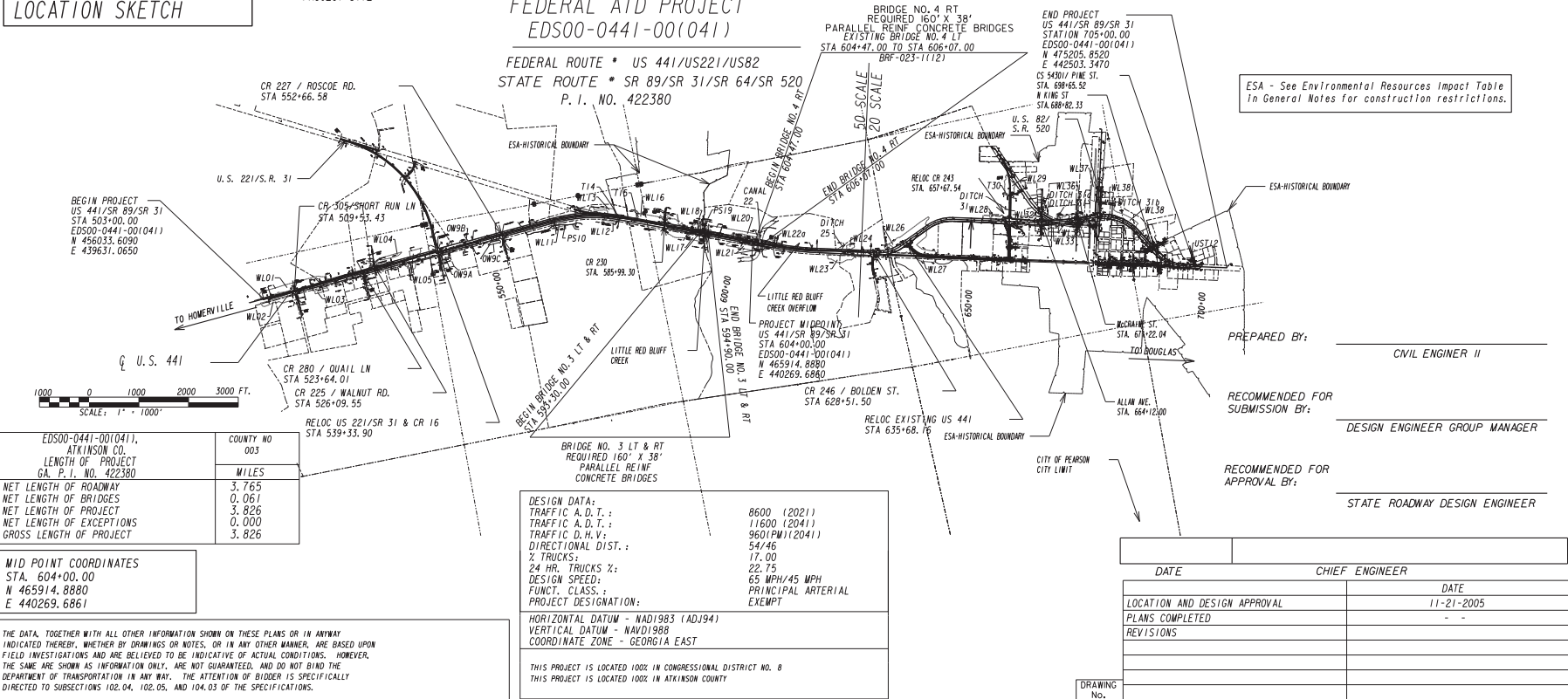
PLAN AND PROFILE OF PROPOSED
WIDENING AND RECONSTRUCTION OF US 441/SR 89/SR 31
FROM SOUTH OF INTERSECTION WITH US 221/SR 31
TO NORTH OF INTERSECTION WITH US82/SR520
BRIDGE REPLACEMENTS OF US 441/SR 89/SR 31
OVER LITTLE RED BLUFF CREEK AND OVERFLOW
ATKINSON COUNTY

NOTE:
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA", "STATE HIGHWAY DEPARTMENT", "GEORGIA STATE HIGHWAY DEPARTMENT", "HIGHWAY DEPARTMENT", OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA MEAN, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.



FEDERAL AID PROJECT
EDS00-0441-00(041)

FEDERAL ROUTE * US 441/US221/US82
STATE ROUTE * SR 89/SR 31/SR 64/SR 520
P. I. NO. 422380



ESA - See Environmental Resources Impact Table
in General Notes for construction restrictions.

PREPARED BY: _____
CIVIL ENGINEER II

RECOMMENDED FOR SUBMISSION BY: _____
DESIGN ENGINEER GROUP MANAGER

RECOMMENDED FOR APPROVAL BY: _____
STATE ROADWAY DESIGN ENGINEER

EDS00-0441-00(041), ATKINSON CO. LENGTH OF PROJECT G.A. P. I. NO. 422380	COUNTY NO 003
NET LENGTH OF ROADWAY	3.765
NET LENGTH OF BRIDGES	0.061
NET LENGTH OF PROJECT	3.826
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	3.826

MID POINT COORDINATES
STA. 604+00.00
N 465914.8880
E 440269.6861

DESIGN DATA:

TRAFFIC A. D. T. :	8600 (2021)
TRAFFIC A. D. T. :	11600 (2041)
TRAFFIC D. H. V. :	960(PW)(2041)
DIRECTIONAL DIST. :	54/46
% TRUCKS :	17.00
24 HR. TRUCKS %:	22.75
DESIGN SPEED:	65 MPH/45 MPH
FUNCT. CLASS. :	PRINCIPAL ARTERIAL
PROJECT DESIGNATION:	EXEMPT

HORIZONTAL DATUM - NAD1983 (ADJ94)
VERTICAL DATUM - NAVD1988
COORDINATE ZONE - GEORGIA EAST

THIS PROJECT IS LOCATED 100% IN CONGRESSIONAL DISTRICT NO. 8
THIS PROJECT IS LOCATED 100% IN ATKINSON COUNTY

EDS00-0441-00(041), ATKINSON COUNTY

DATE	CHIEF ENGINEER
LOCATION AND DESIGN APPROVAL	DATE 11-21-2005
PLANS COMPLETED	- -
REVISIONS	
DRAWING No. 01-001	

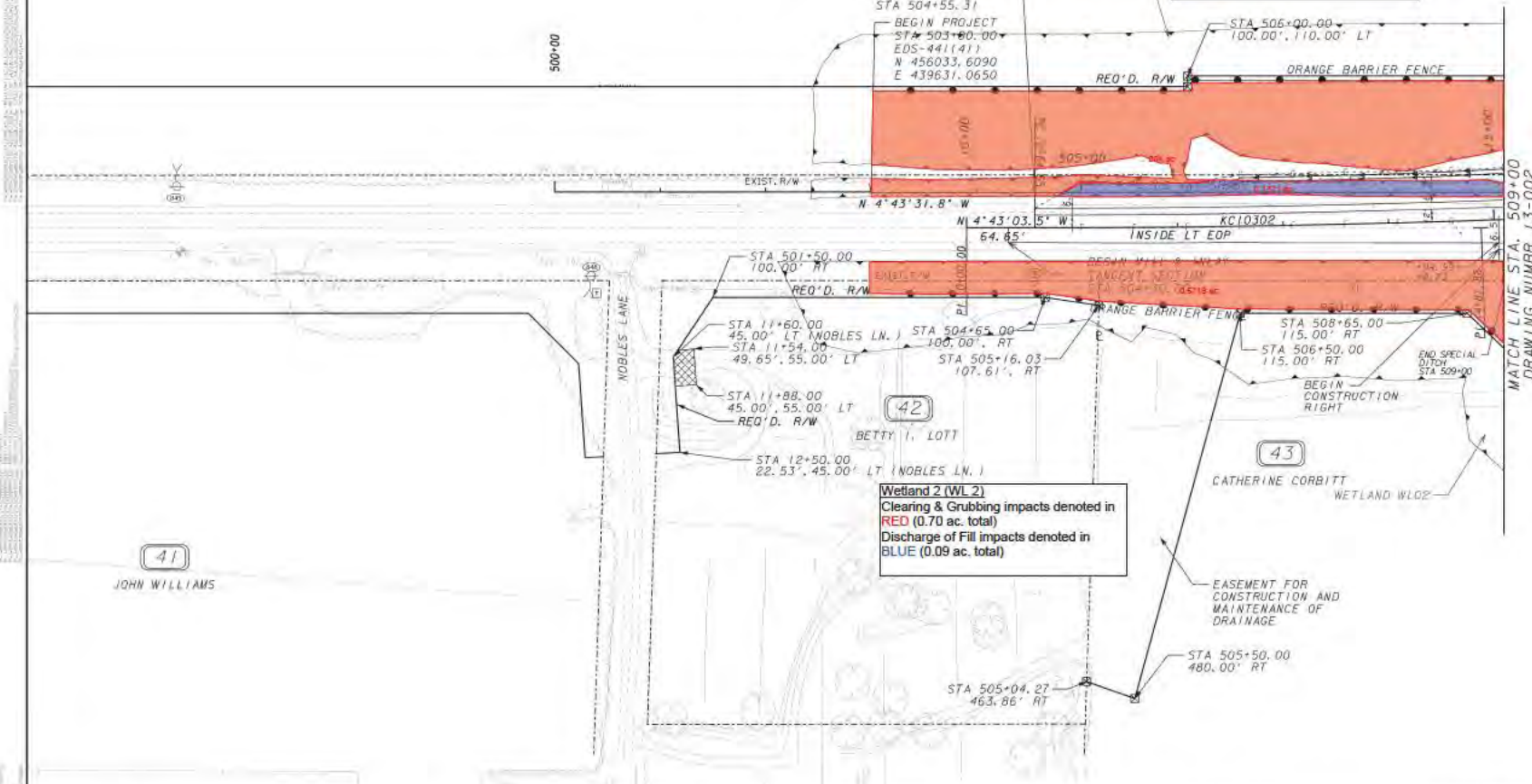


(40)

MATTHEW CORBITT MIZELL, JR.
MELVIN L. DAVIS, JR.

BEGIN FULL-DEPTH
CONSTRUCTION
EDS-441(141)
STA 504+55.31
-BEGIN PROJECT
STA 503+00.00
EDS-441(141)
N 456033, 6090
E 439631, 0650

Wetland 1 (WL 1)
Clearing & Grubbing impacts denoted in
RED (1.85 ac. total)
Discharge of Fill impacts denoted in
BLUE (1.21 ac. total)



(41)

JOHN WILLIAMS

(42)

BETTY I. LOTT

Wetland 2 (WL 2)
Clearing & Grubbing impacts denoted in
RED (0.70 ac. total)
Discharge of Fill impacts denoted in
BLUE (0.09 ac. total)

(43)

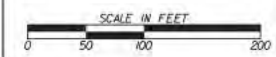
CATHERINE CORBITT
WETLAND WLO2

MATCH LINE STA. 509+00
DRAWING NUMBER 13-002

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	
END LIMIT OF ACCESS.....ELA	
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ESA- ENV. SENSITIVE AREA (SEE ERIT TABLE)	
ORANGE BARRIER FENCE	

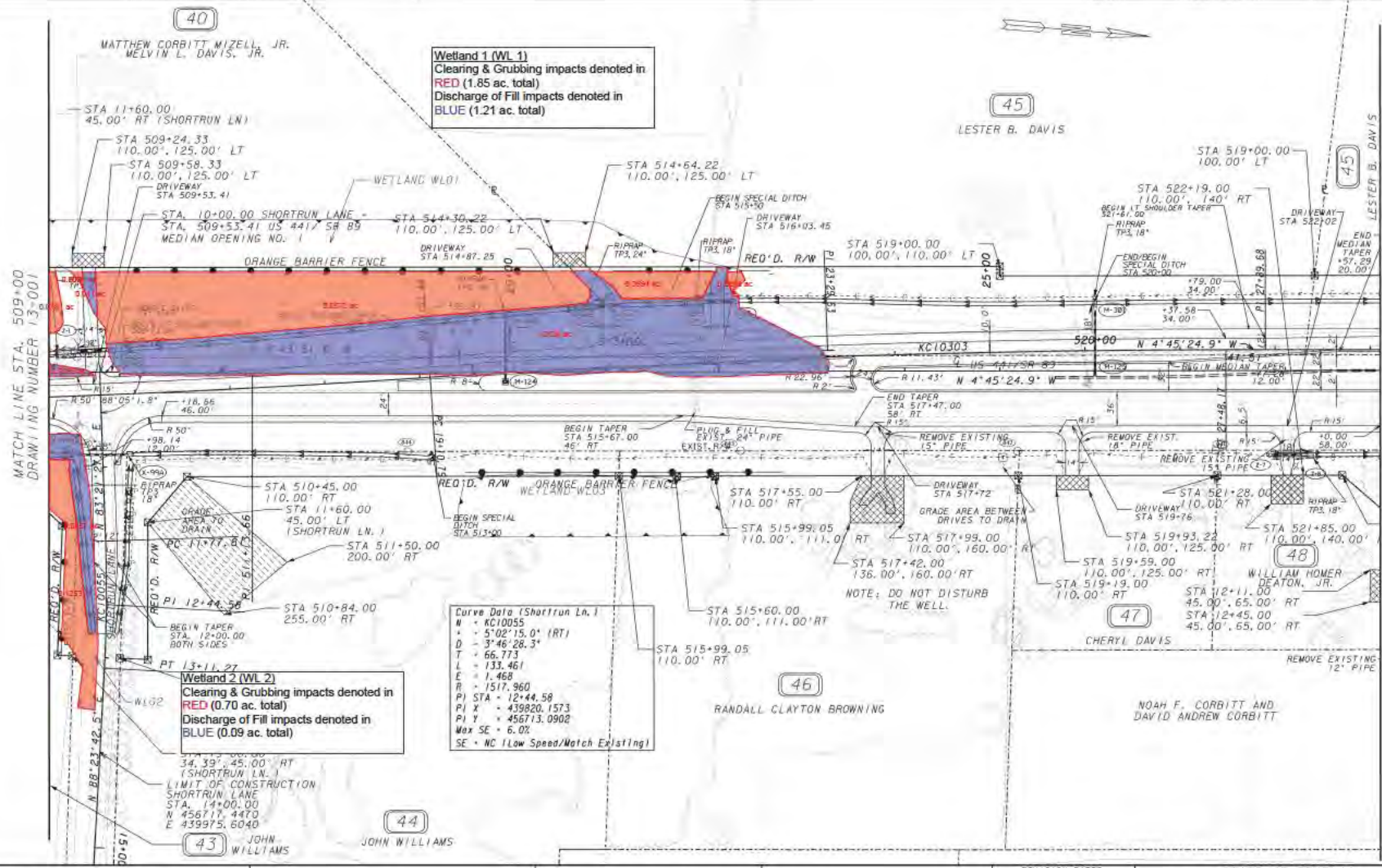
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: OFFICE OF ROADWAY DESIGN
MAINLINE PLAN
PROJECT: US 441/SR 89/SR 31
COUNTY: ATKINSON

13-001



Wetland 1 (WL 1)
 Clearing & Grubbing impacts denoted in RED (1.85 ac. total)
 Discharge of Fill impacts denoted in BLUE (1.21 ac. total)

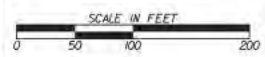
Wetland 2 (WL 2)
 Clearing & Grubbing impacts denoted in RED (0.70 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.09 ac. total)

Curve Data (Shorrun Ln.)
 N - KC10055
 R - 5'02" 15.0' (RT)
 D - 3'46" 28.3"
 T - 66.773
 L - 133.461
 E - 1.468
 R - 1517.960
 PI STA - 12+44.58
 PI Y - 439820.1573
 PI Z - 456713.0902
 Max SE - 6.0%
 SE - NC (Low Speed/Watch Existing)

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
END LIMIT OF ACCESS	BLA
CONSTRUCTION LIMITS	ELA
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---
ORANGE BARRIER FENCE	---

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REVISION DATES

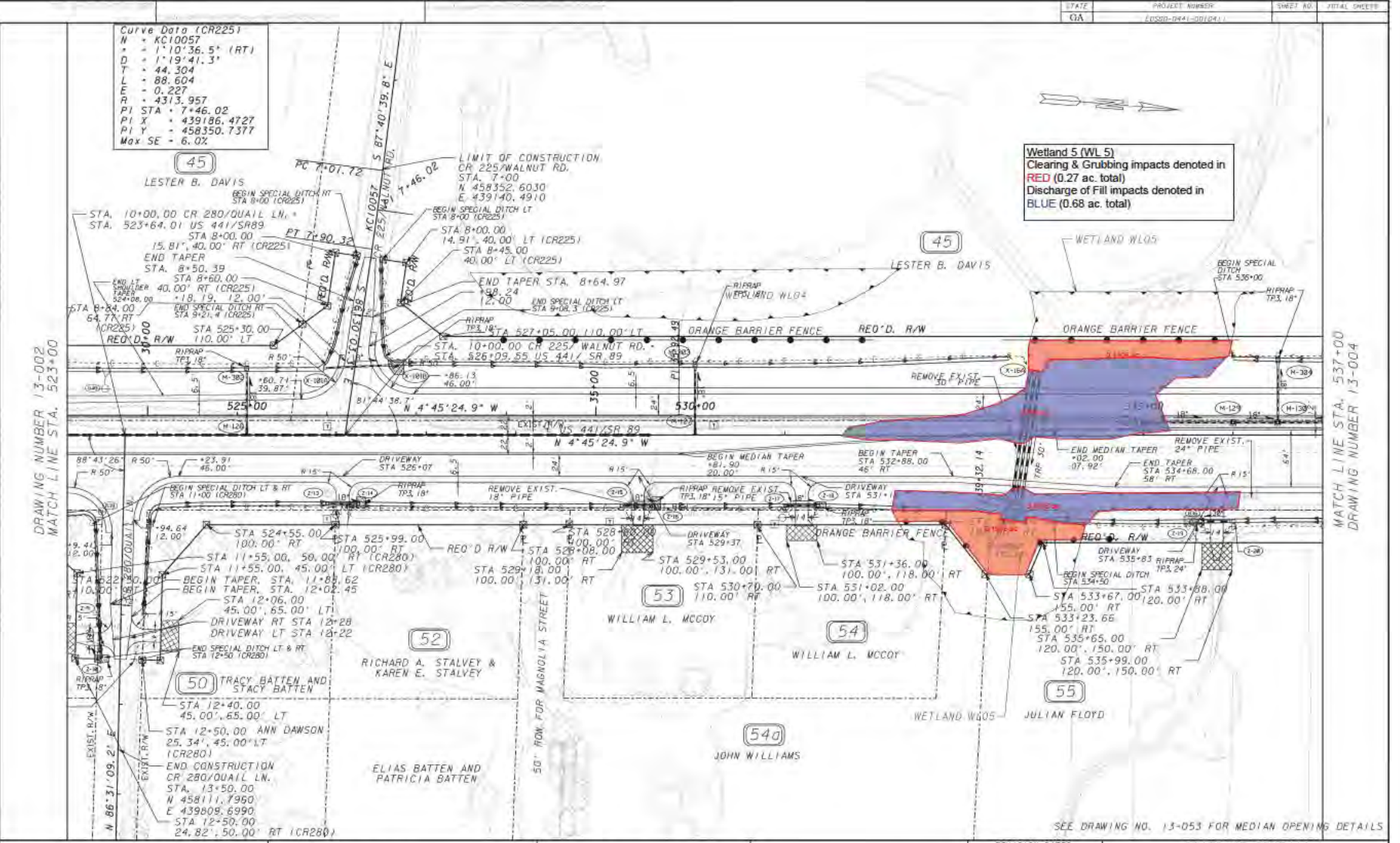
STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: OFFICE OF ROADWAY DESIGN
MAINLINE PLAN

PROJECT: US 441/SR 89/SR 31
 COUNTY: ATKINSON

13-002

Curve Data (CR225)
 W = 100.57
 N = 1°10'36.5" (RT)
 D = 1°19'41.3"
 T = 44.304
 L = 88.604
 E = 0.227
 R = 4313.957
 PI STA = 7+46.02
 PI X = 439186.4727
 PI Y = 458350.7377
 Max SE = 6.0%

Wetland 5 (WL 5)
 Clearing & Grubbing impacts denoted in RED (0.27 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.68 ac. total)



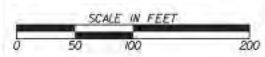
DRAWING NUMBER 13-002
MATCH LINE STA. 523+00

MATCH LINE STA. 537+00
DRAWING NUMBER 13-004

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ESA- ENV. SENSITIVE AREA
 (SEE ERIT TABLE)
 ORANGE BARRIER FENCE

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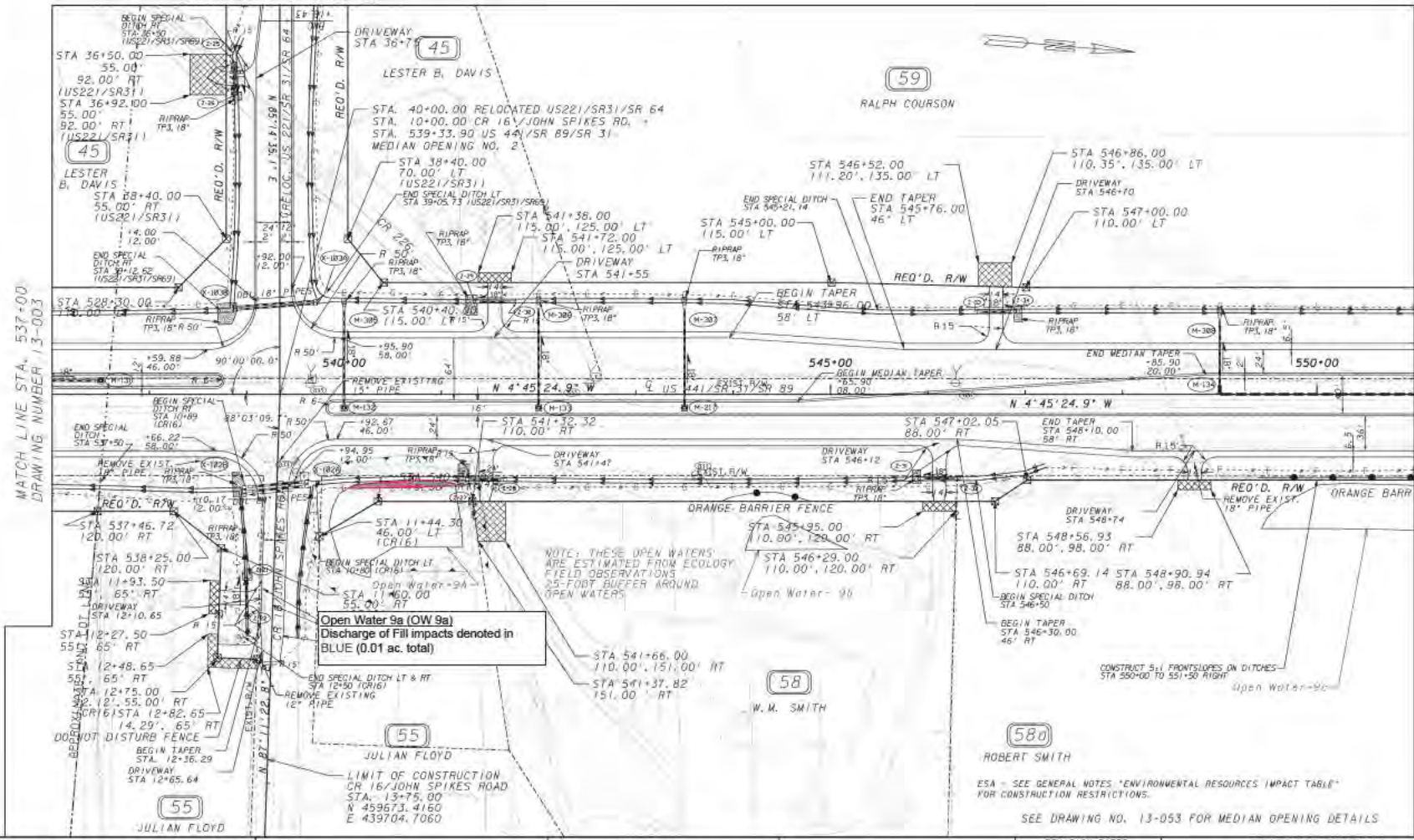


REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: OFFICE OF ROADWAY DESIGN
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13-003

DRAWING NUMBER 13-027
MATCH LINE STA. 36+00



MATCH LINE STA. 537+00
DRAWING NUMBER 13-003

MATCH LINE STA. 551+00
DRAWING NUMBER 13-005

PROPERTY AND EXISTING R/W LINE	—
REQUIRED R/W LINE	—
CONSTRUCTION LIMITS	—
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	—
EASEMENT FOR CONSTR OF SLOPES	—
EASEMENT FOR CONSTR OF DRIVES	—

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LIMIT OF ACCESS	—
REQ'D R/W & LIMIT OF ACCESS	—
ESA- ENV. SENSITIVE AREA (SEE ERIT TABLE)	—
ORANGE BARRIER FENCE	—

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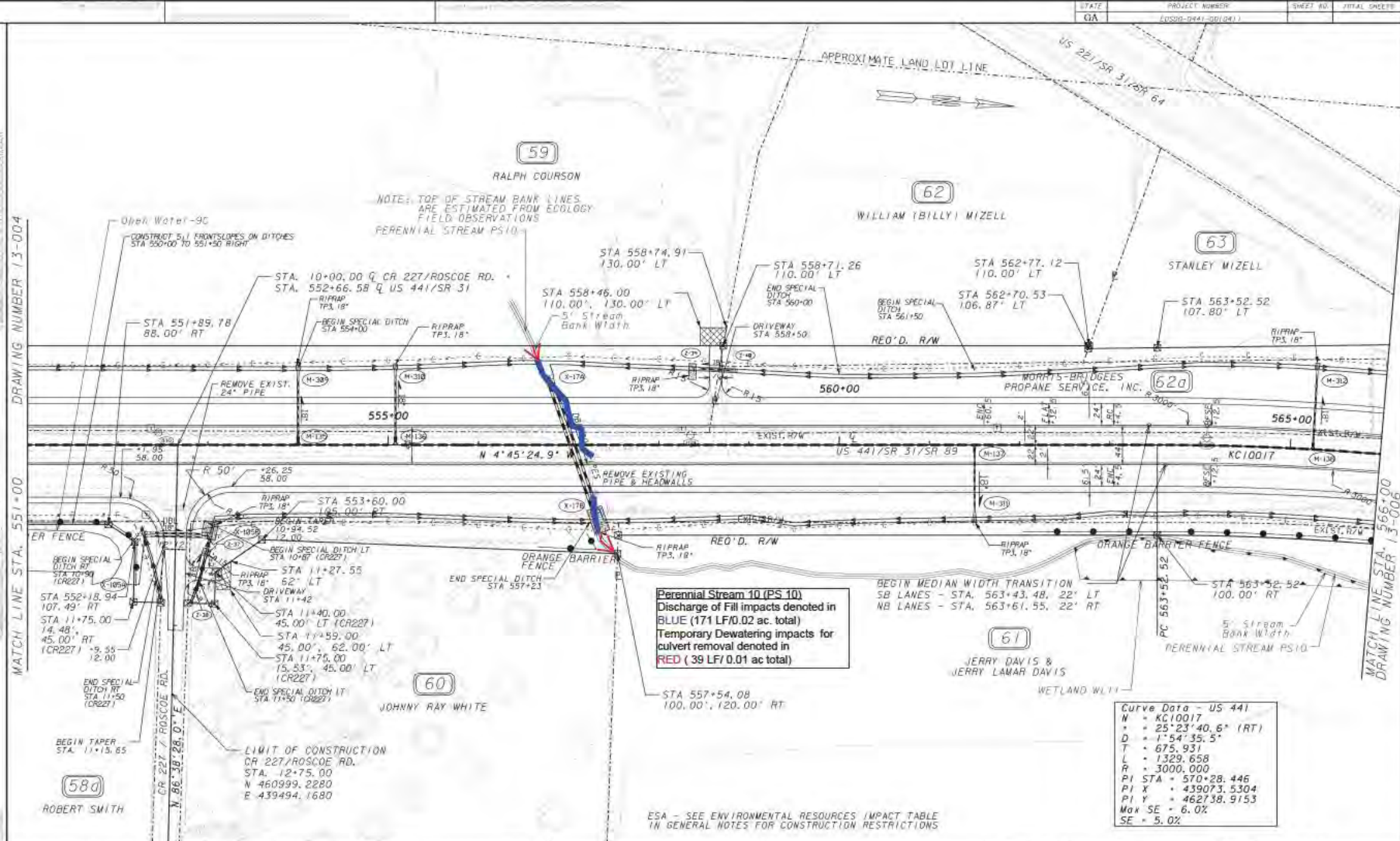


REVISION DATES

STATE OF GEORGIA
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OFFICE: OFFICE OF ROADWAY DESIGN
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COUNTY: ATKINSON

DRAWING NUMBER 13-004

MATCH LINE STA. 555+00
DRAWING NUMBER 13-006



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

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LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ENVIRONMENTALLY SENSITIVE AREA	---

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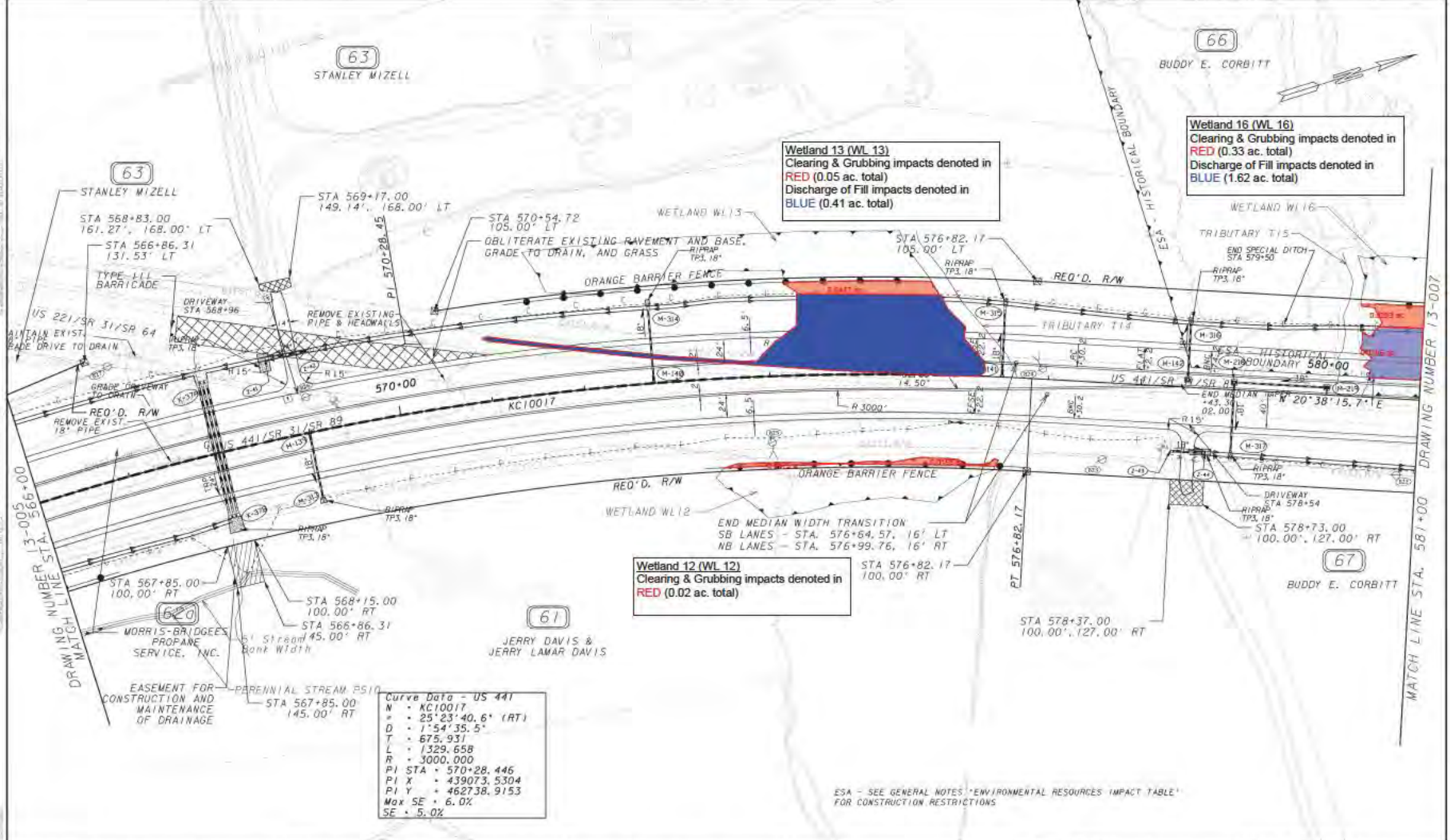
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PROJECT: US 441/SR 89/SR 31
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13-005



PROPERTY AND EXISTING R/W LINE	———
REQUIRED R/W LINE	———
CONSTRUCTION LIMITS	———
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

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END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	———
REQ'D R/W & LIMIT OF ACCESS	———
ORANGE BARRIER FENCE	———
ENVIRONMENTALLY SENSITIVE AREA	———

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 COUNTY: ATKINSON

13-006

Wetland 16 (WL 16)
 Clearing & Grubbing impacts denoted in RED (0.33 ac. total)
 Discharge of Fill impacts denoted in BLUE (1.62 ac. total)

Wetland 20 (WL 20)
 Clearing & Grubbing impacts denoted in RED (0.26 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.65 ac. total)

Wetland 18 (WL 18)
 Clearing & Grubbing impacts denoted in RED (0.04 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.26 ac. total)

Wetland 17 (WL 17)
 Clearing & Grubbing impacts denoted in RED (0.44 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.46 ac. total)

Perennial Stream 19 (PS 19)
 Discharge of Fill impacts denoted in BLUE (28LF/0.005 acre)
 additional details denoted on Sheets 20-0001 thru 20-0004

Curve Data (CR230)
 W = 1010059
 Δ = 20°30'33.9" (LT)
 D = 17°08'25.8"
 L = 60.474
 E = 119.655
 R = 5.426
 P = 334.271
 PI STA = 6+81.05
 P2 STA = 439323.7190
 P1 Y = 464304.9221
 Max SE = 6.0 %
 SE = 6.0 %

DRAWING NUMBER 13-005

DRAWING NUMBER 13-008

MATCH LINE STA. 581+00

MATCH LINE STA. 596+00

ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	
END LIMIT OF ACCESS.....ELA	
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	
ENVIRONMENTALLY SENSITIVE AREA	

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REVISION DATES

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 13-007

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MONICA LOUISE DAVIS & MITZI LEIGH DAVIS

Curve Data - US 441
 N - KC10018
 Δ - 7°53'59.1" (LT)
 D - 0°57'17.7"
 T - 414.286
 L - 827.260
 R - 6000.000
 PI STA - 612+95.564
 PI X - 440585.3340
 PI Y - 466752.9819
 Max SE - 6.0%
 SE - 3.0%

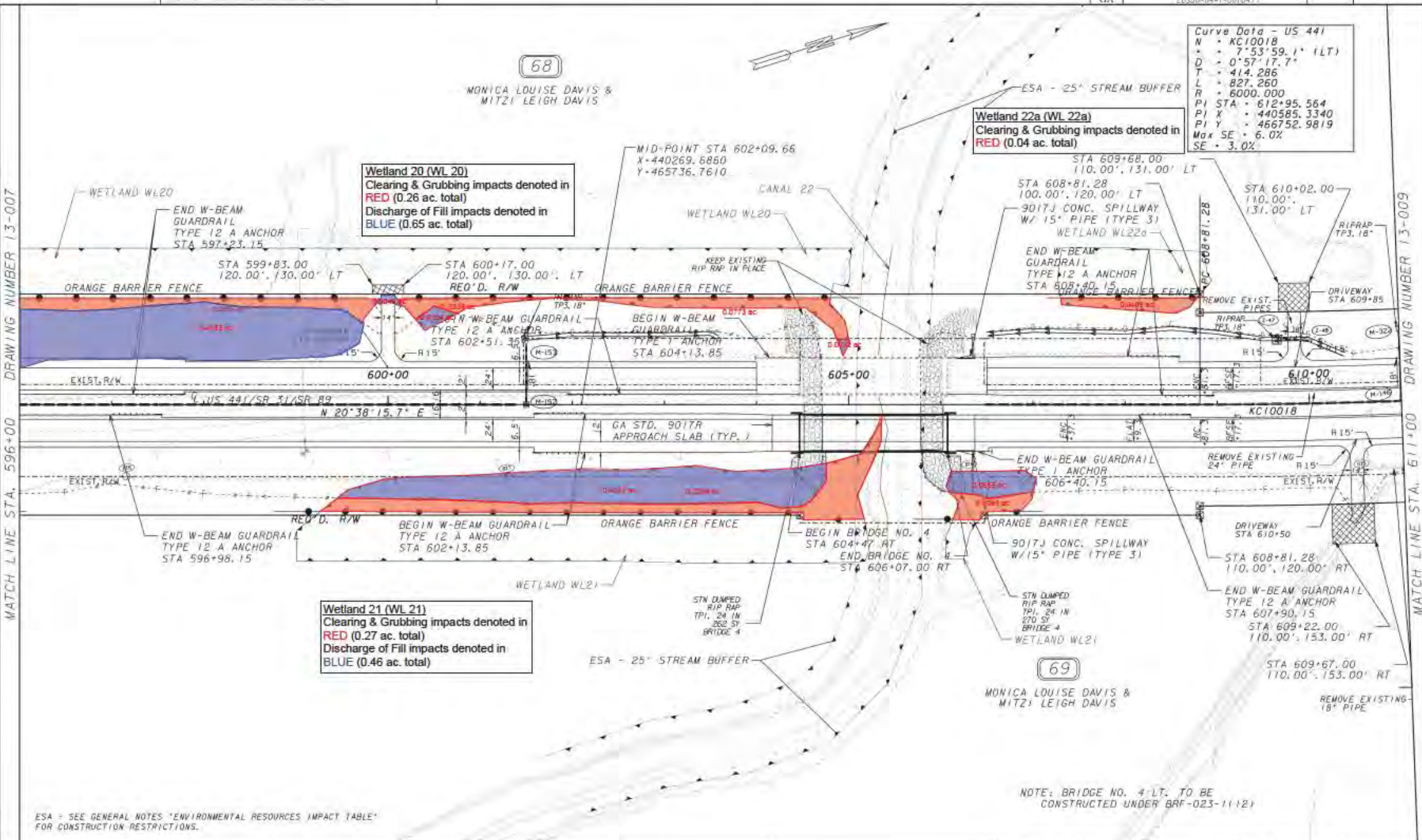
Wetland 20 (WL 20)
 Clearing & Grubbing impacts denoted in RED (0.26 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.65 ac. total)

Wetland 22a (WL 22a)
 Clearing & Grubbing impacts denoted in RED (0.04 ac. total)

Wetland 21 (WL 21)
 Clearing & Grubbing impacts denoted in RED (0.27 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.46 ac. total)

MATCH LINE STA. 596+00 DRAWING NUMBER 13-007

MATCH LINE STA. 611+00 DRAWING NUMBER 13-009



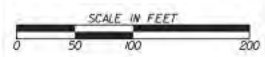
NOTE: BRIDGE NO. 4-LT. TO BE CONSTRUCTED UNDER BRG-023-11(12)

ESA = SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ENVIRONMENTALLY SENSITIVE AREA	---

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MAINLINE PLAN

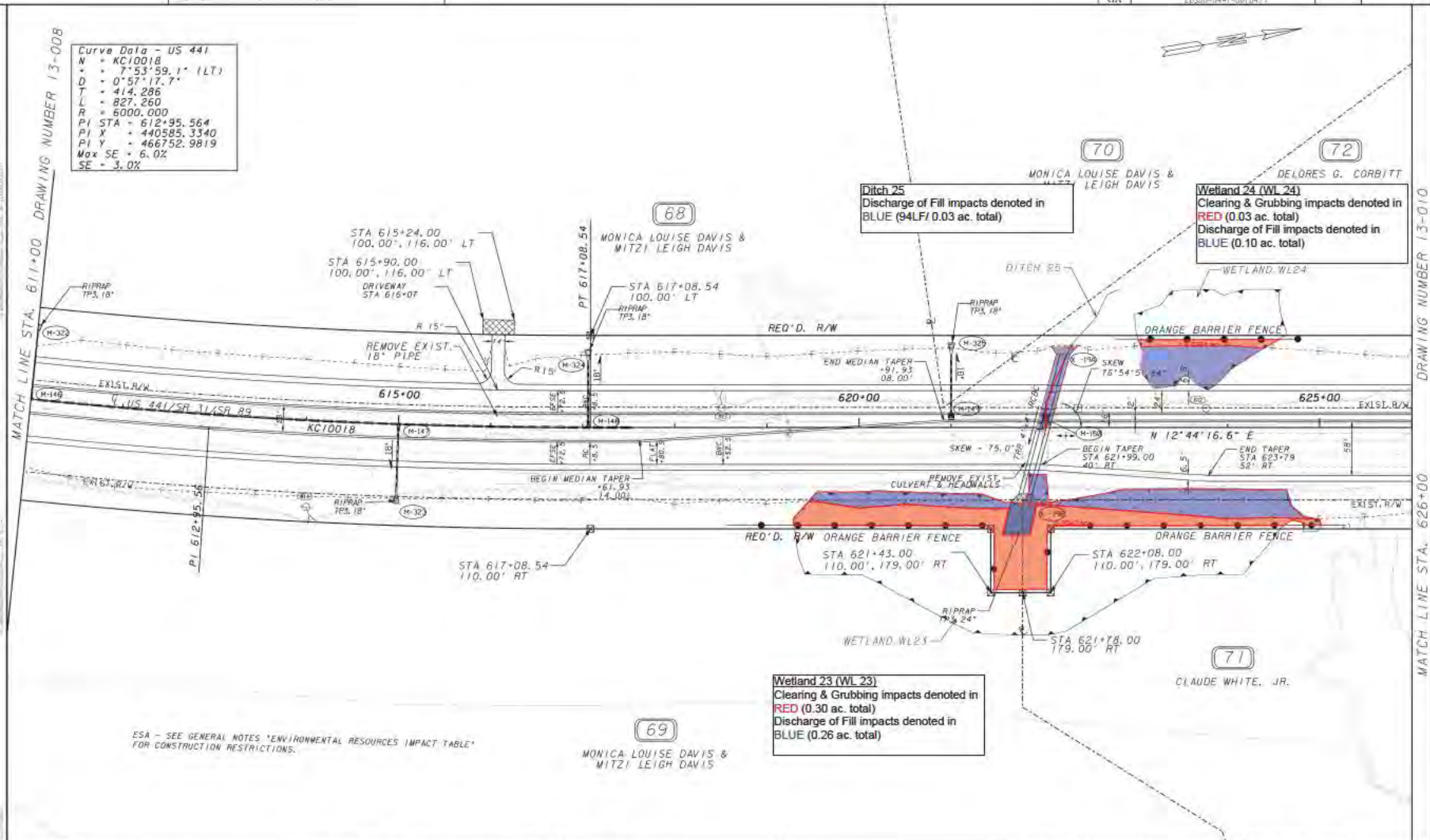
PROJECT: US 441/SR 89/SR 31
 COUNTY: ATKINSON

13-008

Curve Data - US 441
 N = KC1001B
 Δ = 7°53'59.1" (LT)
 D = 0°57'17.7"
 T = 414.286
 L = 827.260
 R = 6000.000
 PI STA = 612+95.564
 PI X = 440585.3340
 PI Y = 466752.9819
 Max SE = 6.0%
 SE = 3.0%

MATCH LINE STA. 611+00 DRAWING NUMBER 13-008

DRAWING NUMBER 13-010
MATCH LINE STA. 626+00

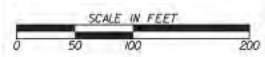


ESA - SEE GENERAL NOTES 'ENVIRONMENTAL RESOURCES IMPACT TABLE' FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ENVIRONMENTALLY SENSITIVE AREA

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MAINLINE PLAN
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 COUNTY: ATKINSON

13-009

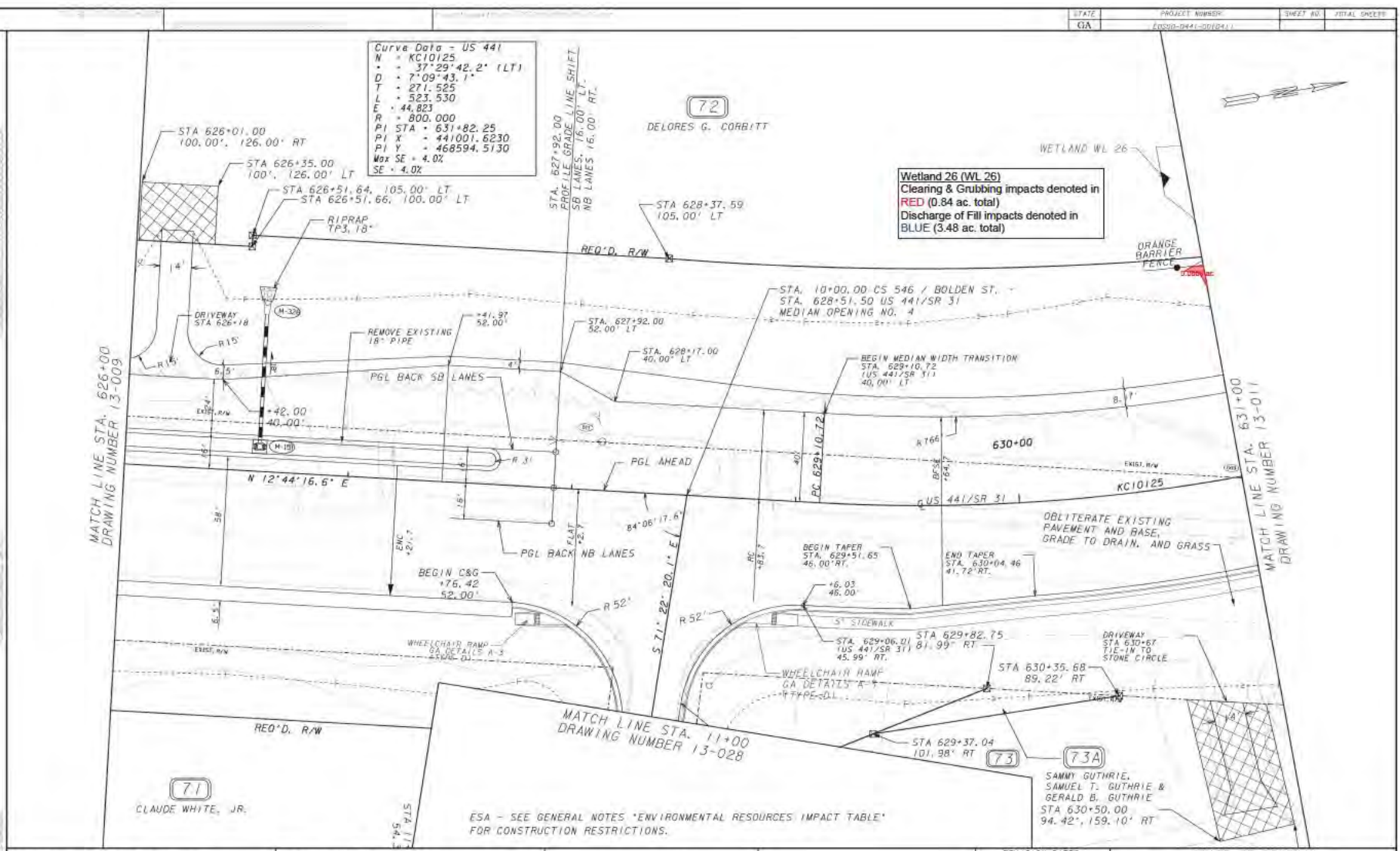
Curve Data - US 441
 N = KC10125
 • = 37°29'42.2" (LT)
 D = 7°09'43.1"
 L = 271.525
 I = 523.530
 E = 44.823
 R = 800.000
 PI STA = 631+82.25
 PI X = 441001.6230
 PI Y = 468594.5130
 Max SE = 4.0%

72
 DELORES G. CORBITT

Wetland 26 (WL 26)
 Cleaning & Grubbing impacts denoted in RED (0.84 ac. total)
 Discharge of Fill impacts denoted in BLUE (3.48 ac. total)

MATCH LINE STA. 626+00
 DRAWING NUMBER 13-009

MATCH LINE STA. 631+00
 DRAWING NUMBER 13-011



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ENVIRONMENTALLY SENSITIVE AREA	---

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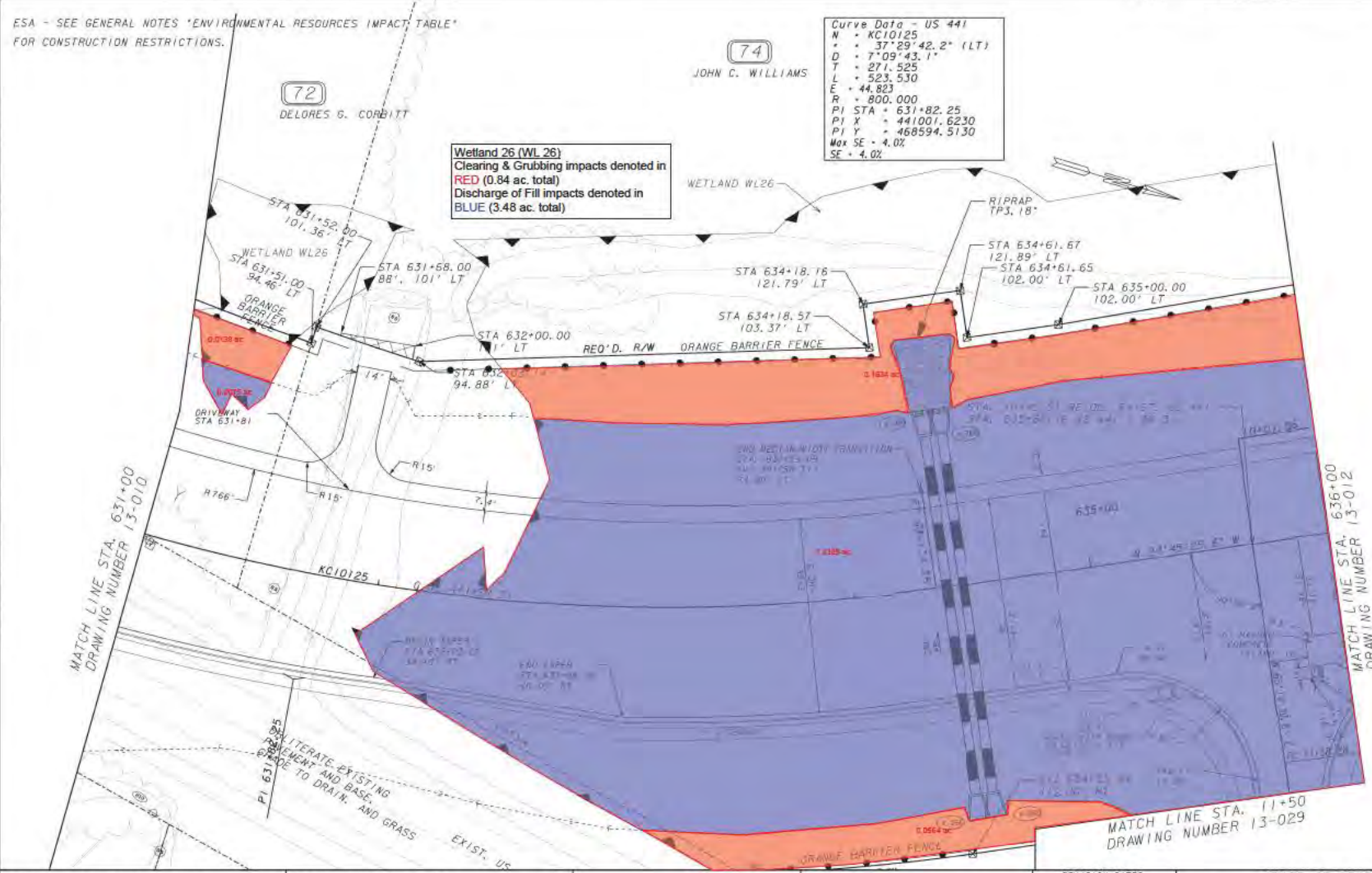
STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: OFFICE OF ROADWAY DESIGN
MAINLINE PLAN
 PROJECT: US 441/SR 89/SR 31
 COUNTY: ATKINSON
 13-010

ESA - SEE GENERAL NOTES 'ENVIRONMENTAL RESOURCES IMPACT TABLE' FOR CONSTRUCTION RESTRICTIONS.

ESA - SEE GENERAL NOTES 'ENVIRONMENTAL RESOURCES IMPACT TABLE' FOR CONSTRUCTION RESTRICTIONS.

Curve Data - US 441
 N - KC10125
 Δ - 37°29'42.2" (LT)
 D - 7°09'43.1"
 T - 271.525
 L - 523.530
 E - 44.823
 R - 800.000
 PI STA - 631+82.25
 PI X - 441001.6230
 PI Y - 468594.5130
 Max SE - 4.0%
 SE - 4.0%

Wetland 26 (WL 26)
 Cleaning & Grubbing impacts denoted in RED (0.84 ac. total)
 Discharge of Fill impacts denoted in BLUE (3.48 ac. total)



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ENVIRONMENTALLY SENSITIVE AREA	---

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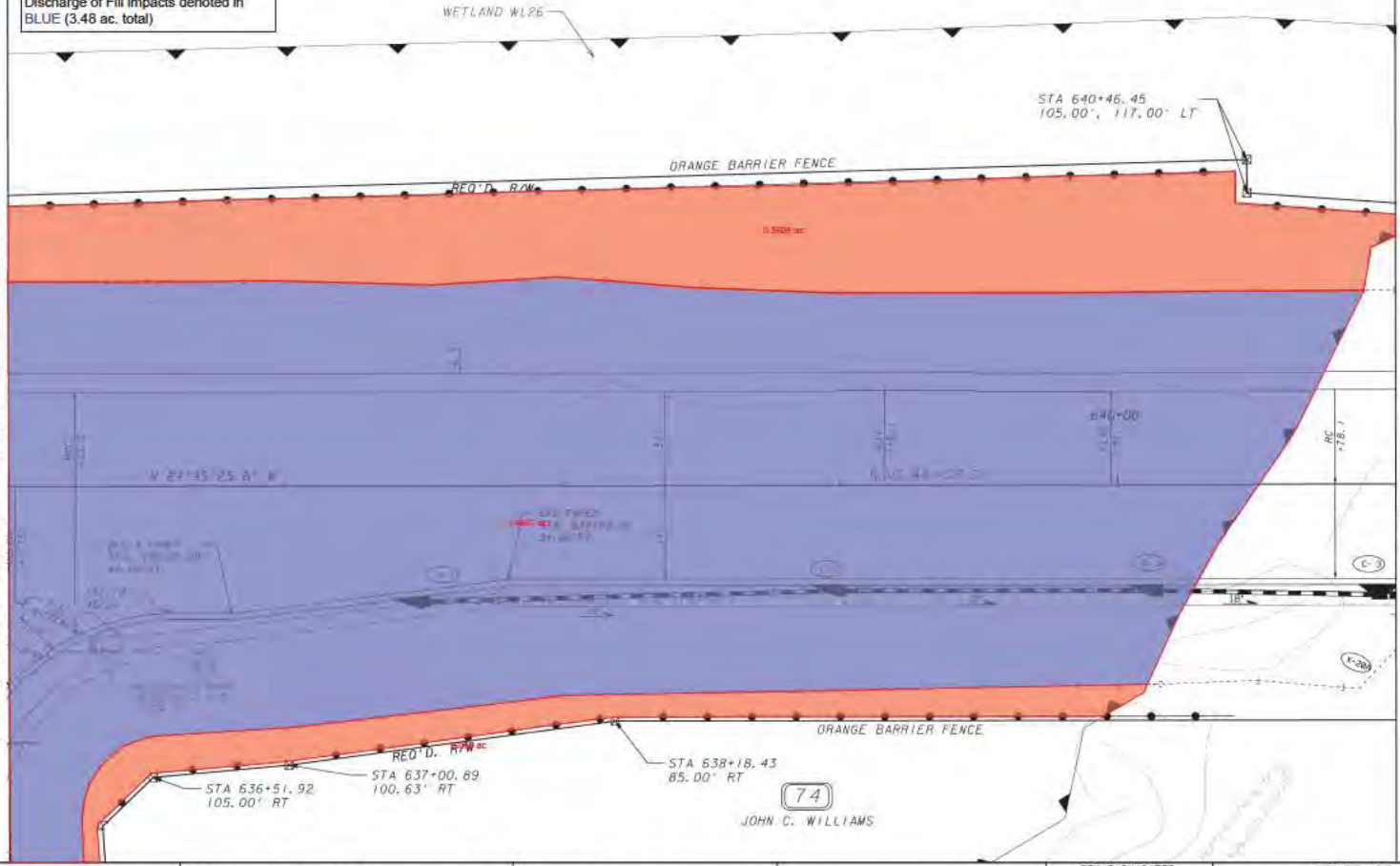
ESA - SEE GENERAL NOTES 'ENVIRONMENTAL RESOURCES IMPACT TABLE' FOR CONSTRUCTION RESTRICTIONS.

Wetland 26 (WL 26)
 Clearing & Grubbing impacts denoted in RED (0.84 ac. total)
 Discharge of Fill impacts denoted in BLUE (3.48 ac. total)

74
 JOHN C. WILLIAMS

MATCH LINE STA. 636+00 DRAWING NUMBER 13-011

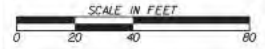
MATCH LINE STA. 641+00 DRAWING NUMBER 13-013



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ENVIRONMENTALLY SENSITIVE AREA

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 COUNTY: ATKINSON

13-012

Wetland 26 (WL 26)
 Cleaning & Grubbing impacts denoted in RED (0.64 ac. total)
 Discharge of Fill impacts denoted in BLUE (3.48 ac. total)

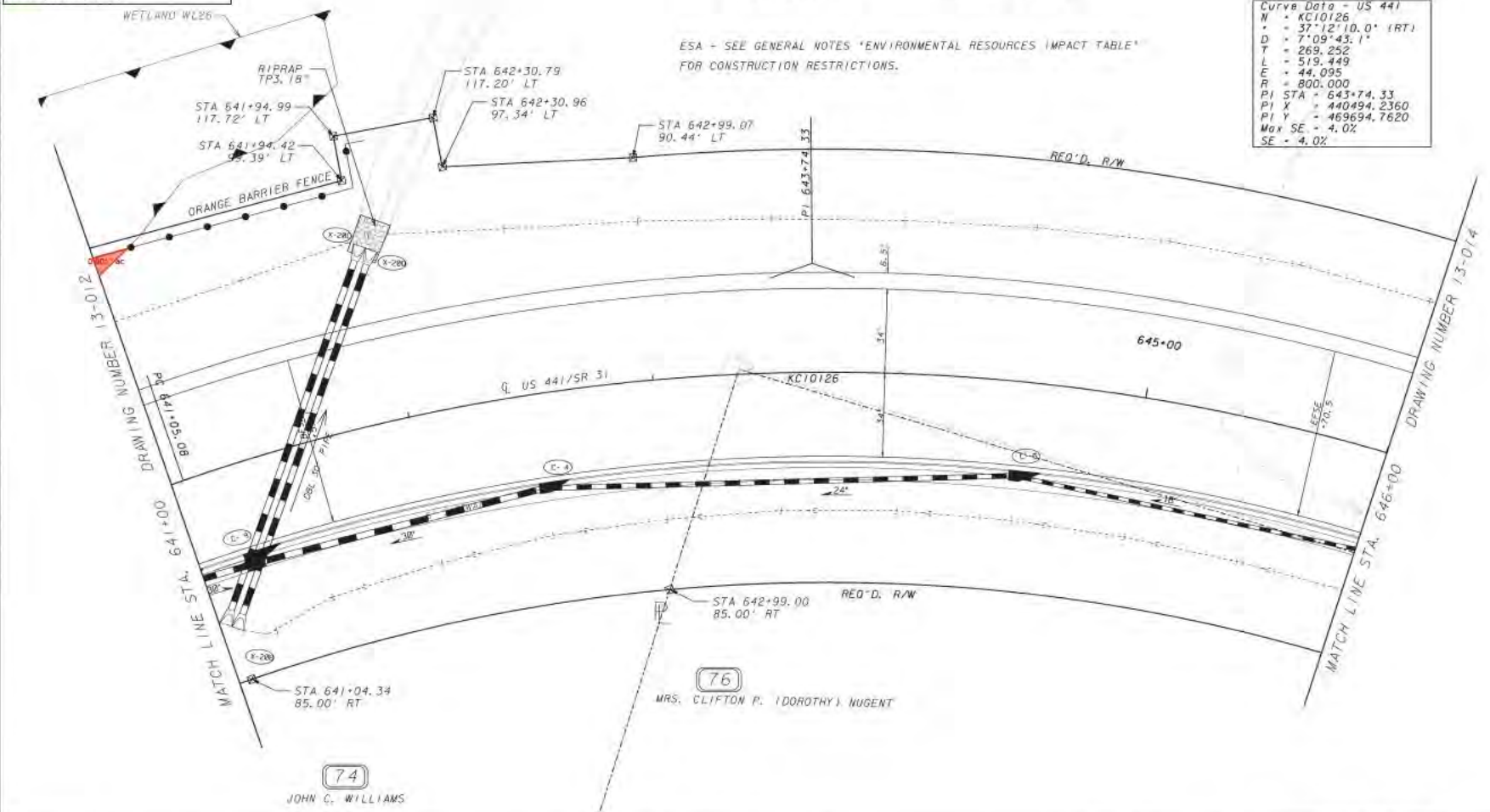
(74)

JOHN C. WILLIAMS



ESA - SEE GENERAL NOTES 'ENVIRONMENTAL RESOURCES IMPACT TABLE' FOR CONSTRUCTION RESTRICTIONS.

Curve Data - US 441
 W = KC10126
 = 37°12'10.0" (RT)
 D = 7°09'43.1"
 T = 269.252'
 L = 519.449'
 E = 44.095'
 R = 800.000'
 PI STA = 643+74.33
 PI X = 440494.2360
 PI Y = 469694.7620
 Max SE = 4.0%
 SE = 4.0%



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ESA- ENV. SENSITIVE AREA (SEE ERIT TABLE)
 ORANGE BARRIER FENCE

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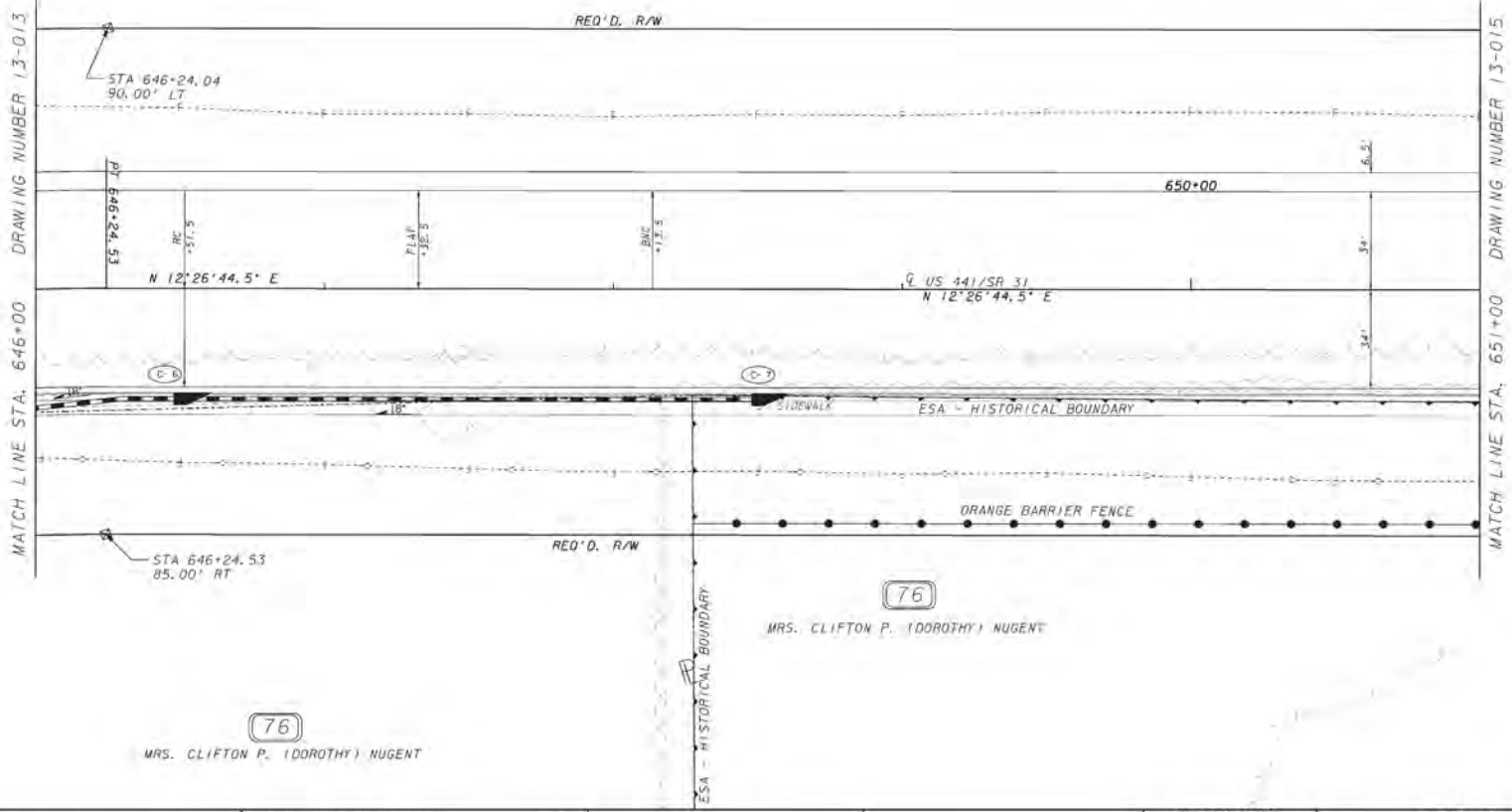


REVISION	DATE

STATE OF GEORGIA
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13-013

(74)
JOHN C. WILLIAMS



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

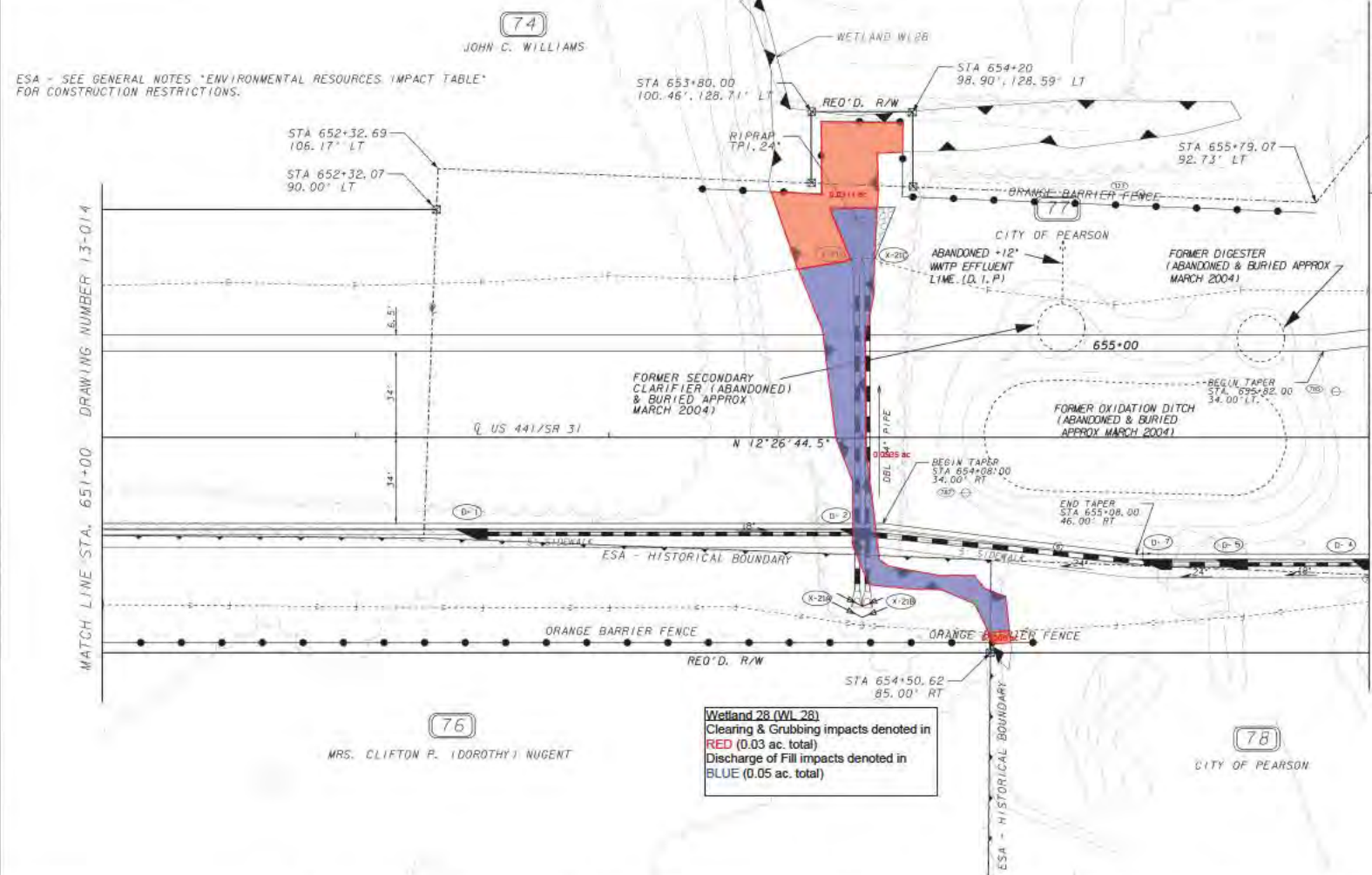
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ENVIRONMENTALLY SENSITIVE AREA

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PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

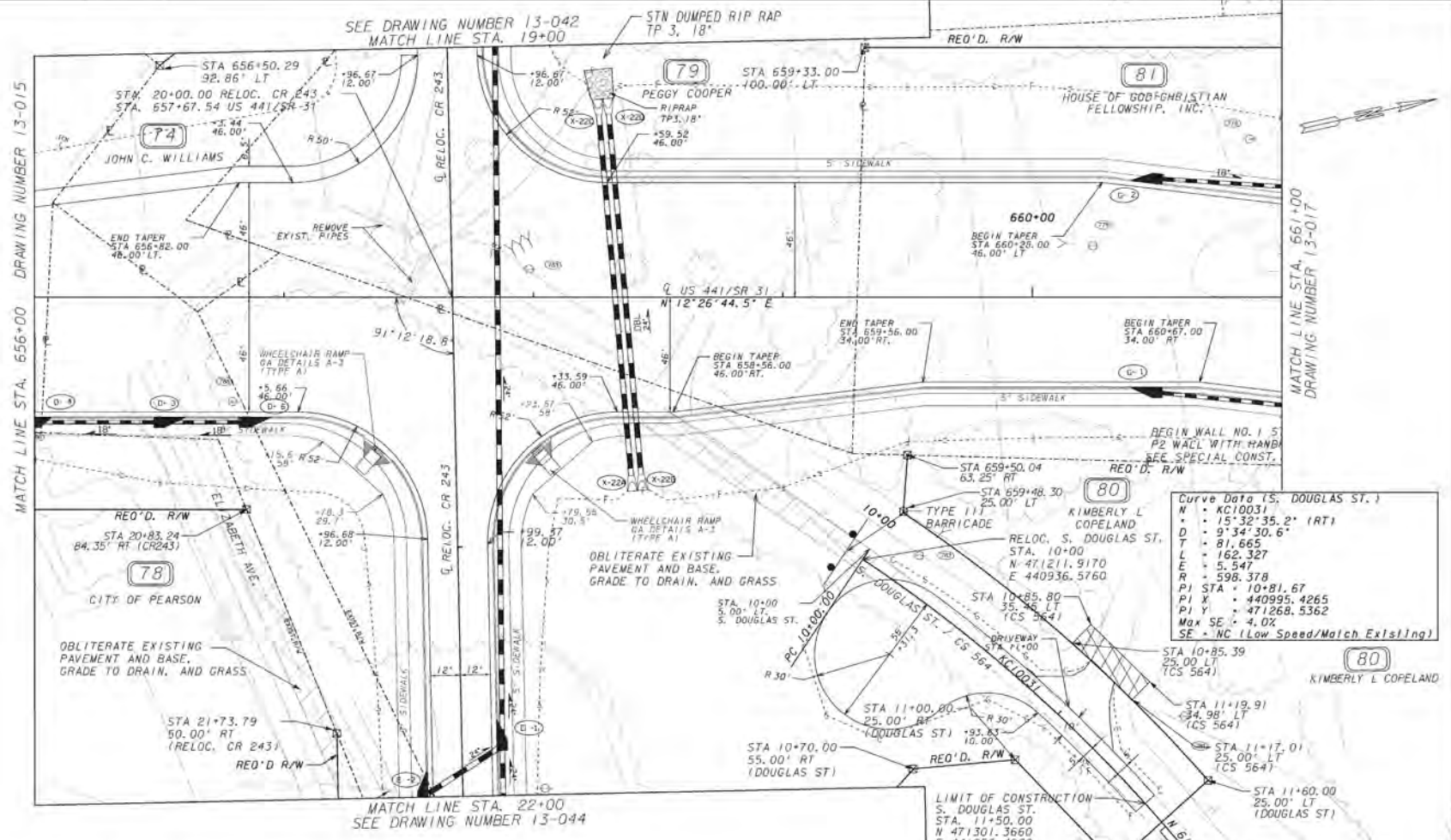
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ENVIRONMENTALLY SENSITIVE AREA

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MAINLINE PLAN
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 COUNTY: ATKINSON



N	• KC10031
Δ	• 15°32'35.2" (RT)
D	• 9'34'30.6"
T	• 81.665
L	• 162.327
E	• 5.547
R	• 598.378
Pt STA	• 10+81.67
Pt X	• 440995.4265
Pt Y	• 471268.5362
Max SE	• 4.0%
SE	• NC (Low Speed/Match Existing)

ESA - SEE GENERAL NOTES "ENVIRONMENTAL IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

<p>PROPERTY AND EXISTING R/W LINE REQUIRED R/W LINE CONSTRUCTION LIMITS EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES EASEMENT FOR CONSTR OF SLOPES EASEMENT FOR CONSTR OF DRIVES</p>	<p>BEGIN LIMIT OF ACCESS.....BLA END LIMIT OF ACCESS.....ELA LIMIT OF ACCESS REQ'D R/W & LIMIT OF ACCESS ORANGE BARRIER FENCE ENVIRONMENTALLY SENSITIVE AREA</p>
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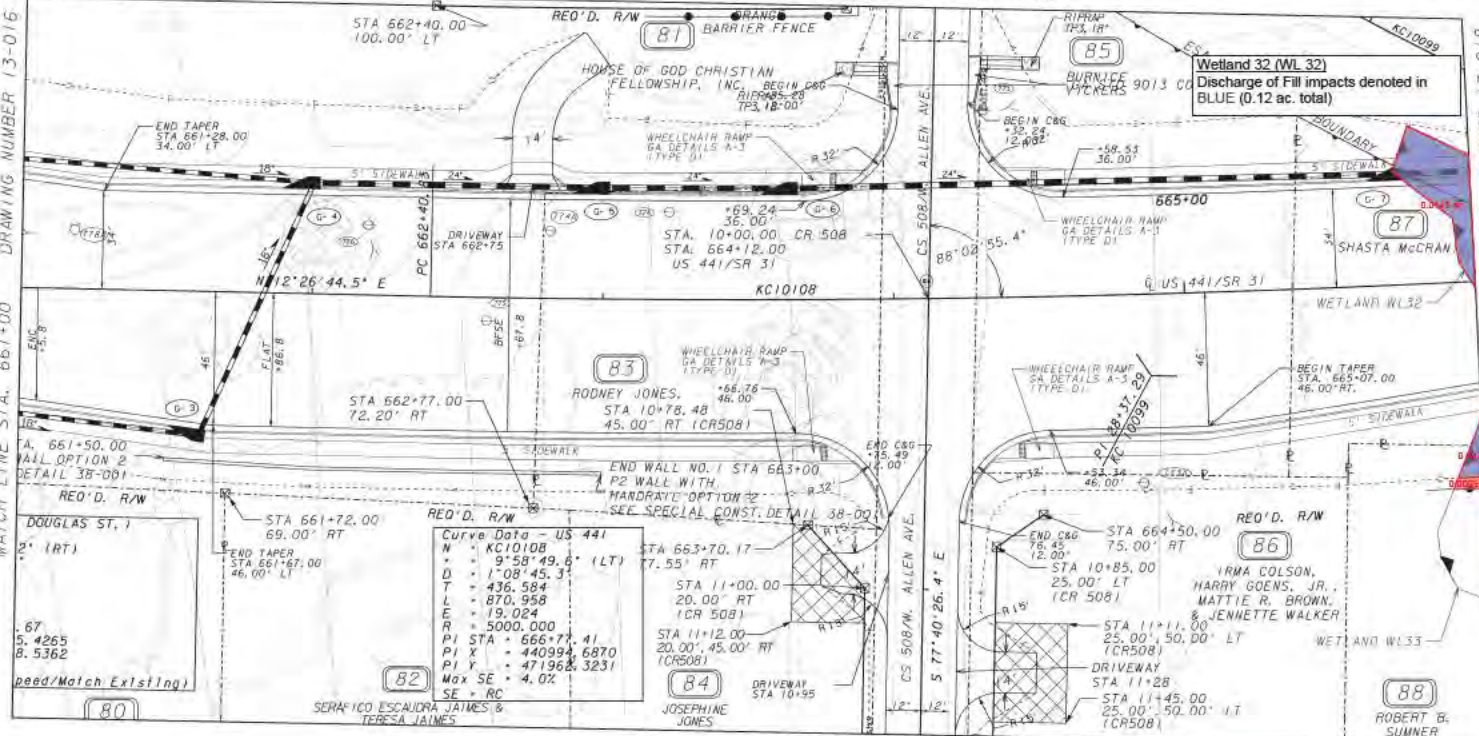


<p>REVISION DATES</p> <table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>					<p align="center">STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: OFFICE OF ROADWAY DESIGN</p> <p align="center">MAINLINE PLAN</p> <p>PROJECT: US 441/SR 89/SR 31 COUNTY: ATKINSON</p>

SEE DRAWING NUMBER 13-045
MATCH LINE STA. 9+00

MATCH LINE STA. 661+00 DRAWING NUMBER 13-016

DRAWING NUMBER 13-018 MATCH LINE STA. 666+00



Curve Data - US 441

N	KC10108
Δ	9°58'49.6" (LT)
D	1708.45.3
T	436.584
L	870.958
E	19.024
R	5000.000
PI STA	666+77.41
PI X	440994.6870
PI Y	471968.3231
Max SE	4.0%
SE	RC

Wetland 32 (WL 32)
Discharge of Fill impacts denoted in BLUE (0.12 ac. total)

Wetland 33 (WL 33)
Clearing & Grubbing impacts denoted in RED (0.01 ac. total)
Discharge of Fill impacts denoted in BLUE (0.04 ac. total)

ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE	—
REQUIRED R/W LINE	—
CONSTRUCTION LIMITS	—
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

BEGIN LIMIT OF ACCESS.....BLA	—
END LIMIT OF ACCESS.....ELA	—
LIMIT OF ACCESS	—
REQ'D R/W & LIMIT OF ACCESS	—
ORANGE BARRIER FENCE	—
ENVIRONMENTALLY SENSITIVE AREA	—

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MAINLINE PLAN
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COUNTY: ATKINSON

Curve Data - US 441
 N = KC10108
 Δ = 9°58'49.6" (LT)
 D = 1°08'45.3"
 T = 436.584
 L = 870.958
 E = 19.024
 R = 5000.000
 PI STA = 666+77.41
 PI X = 440994.6870
 PI Y = 471962.3231
 Max SE = 4.0%
 SE = RC

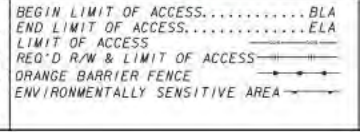
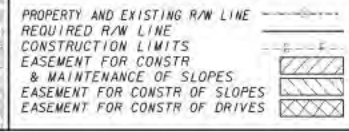
Ditch 34
 Discharge of Fill impacts denoted in BLUE (37 ft/0.01 ac. total)

Wetland 32 (WL 32)
 Discharge of Fill impacts denoted in BLUE (0.12 ac. total)

Wetland 35 (WL 35)
 Clearing & Grubbing impacts denoted in RED (0.01 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.08 ac. total)

Wetland 33 (WL 33)
 Clearing & Grubbing impacts denoted in RED (0.01 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.04 ac. total)

ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.



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 COUNTY: ATKINSON

13-018

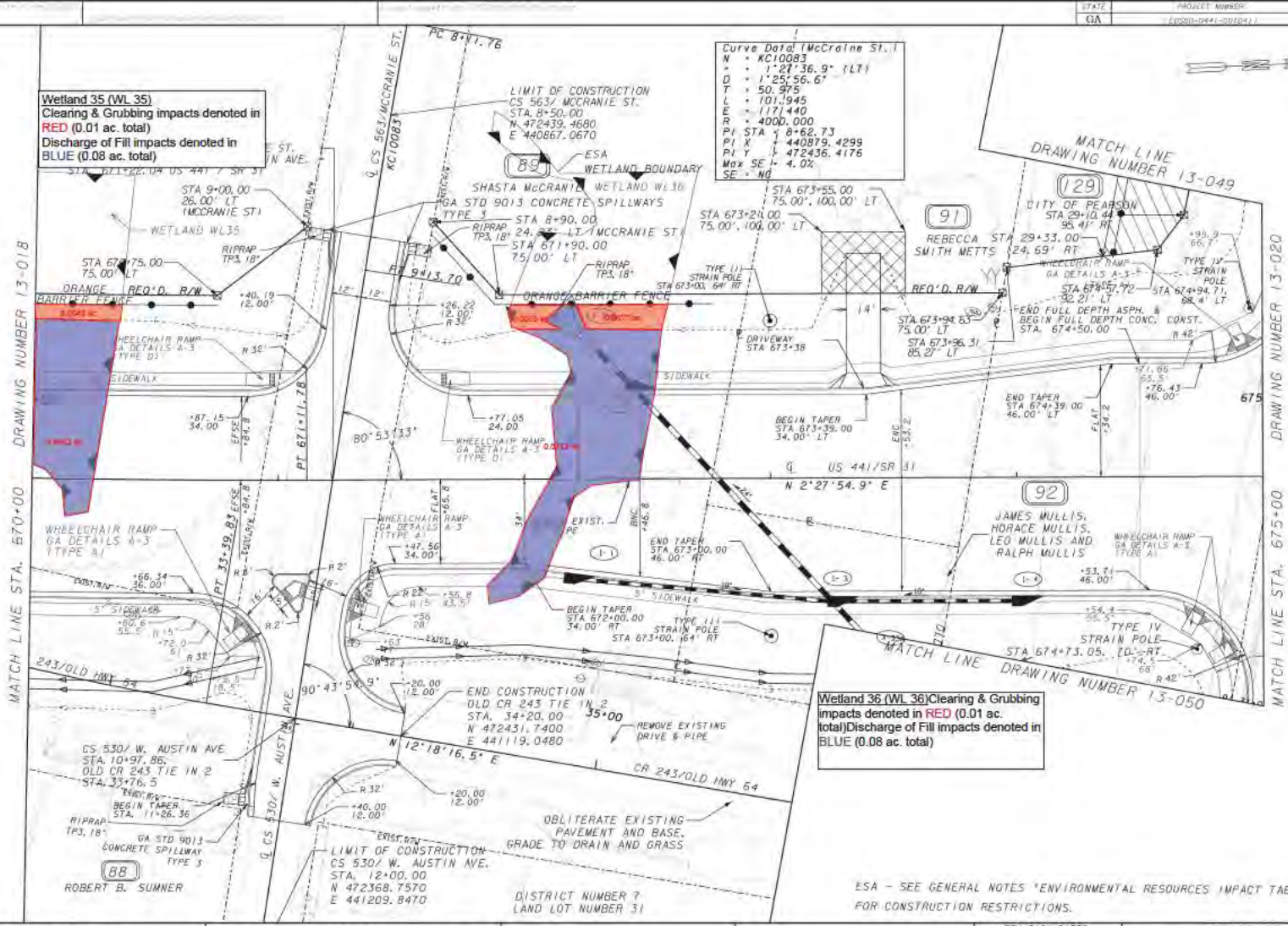
MATCH LINE STA. 666+00 DRAWING NUMBER 13-017

MATCH LINE STA. 670+00 DRAWING NUMBER 13-019



Wetland 35 (WL 35)
 Clearing & Grubbing impacts denoted in RED (0.01 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.08 ac. total)

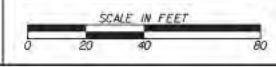
Curve Data (McCrairie St.)
 N = KC10083
 W = 1°27'36.9" (LT)
 D = 1°25'56.6"
 T = 50.975
 L = 101.945
 E = 1171.440
 R = 4000.000
 PI STA = 8+62.73
 P1 X = 440879.4299
 P1 Y = 472436.4176
 Max SE = 4.0%
 SE = NG



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ENVIRONMENTALLY SENSITIVE AREA	---

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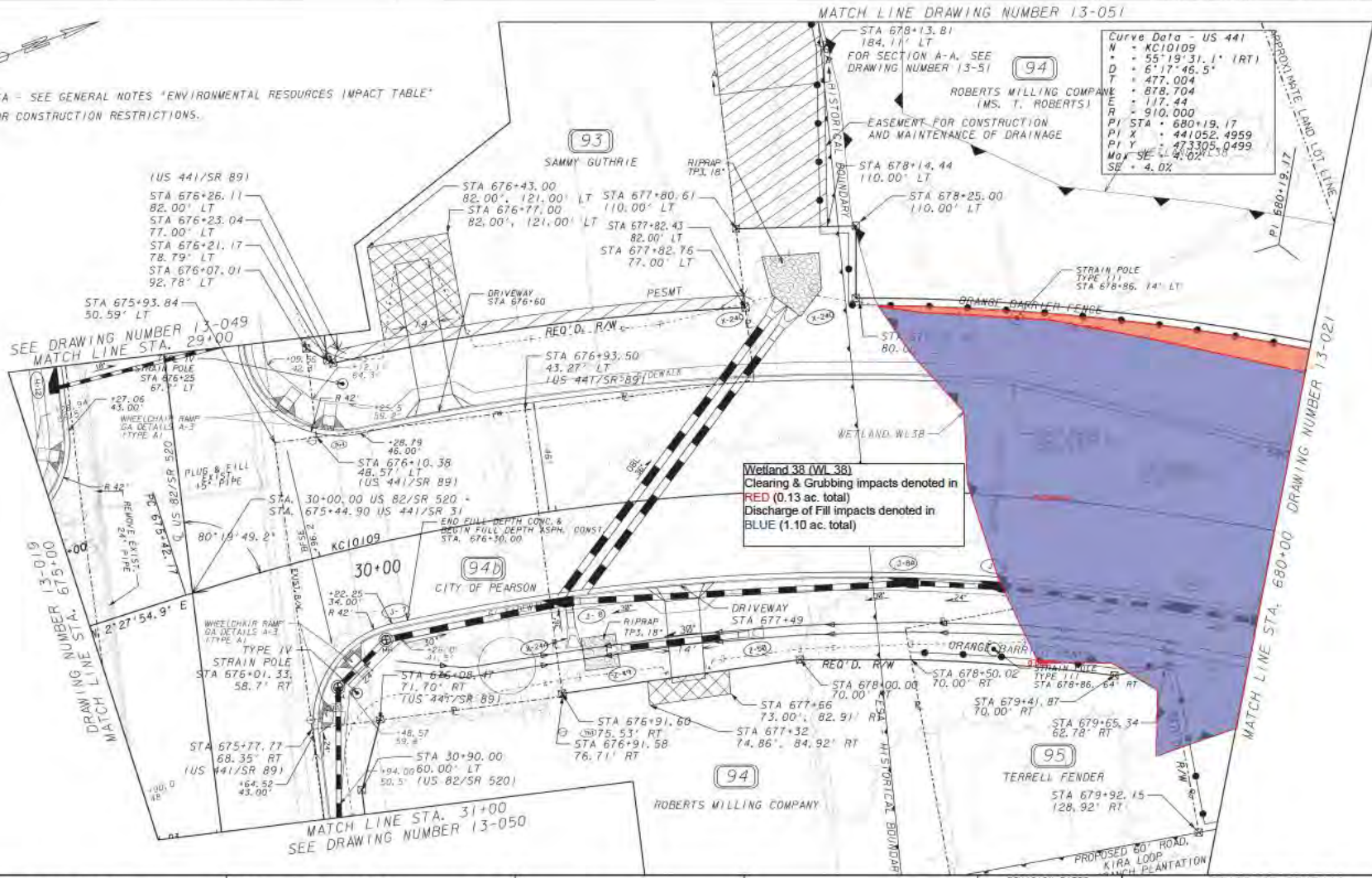


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MAINLINE PLAN
 PROJECT: US 441/SR 89/31
 COUNTY: ATKINSON



ESA = SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE"
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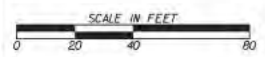
Curve Data - US 441
 N = KC10109
 Δ = 55°19'31.1" (RT)
 D = 61°17'46.5"
 T = 477.004
 E = 878.704
 R = 910.000
 PI STA = 680+19.17
 PI X = 441052.4959
 PI Y = 473305.0499
 MAX SE = 4.02%
 SE = 4.0%

Wetland 38 (WL 38)
 Clearing & Grubbing impacts denoted in RED (0.13 ac. total)
 Discharge of Fill impacts denoted in BLUE (1.10 ac. total)

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ENVIRONMENTALLY SENSITIVE AREA	---

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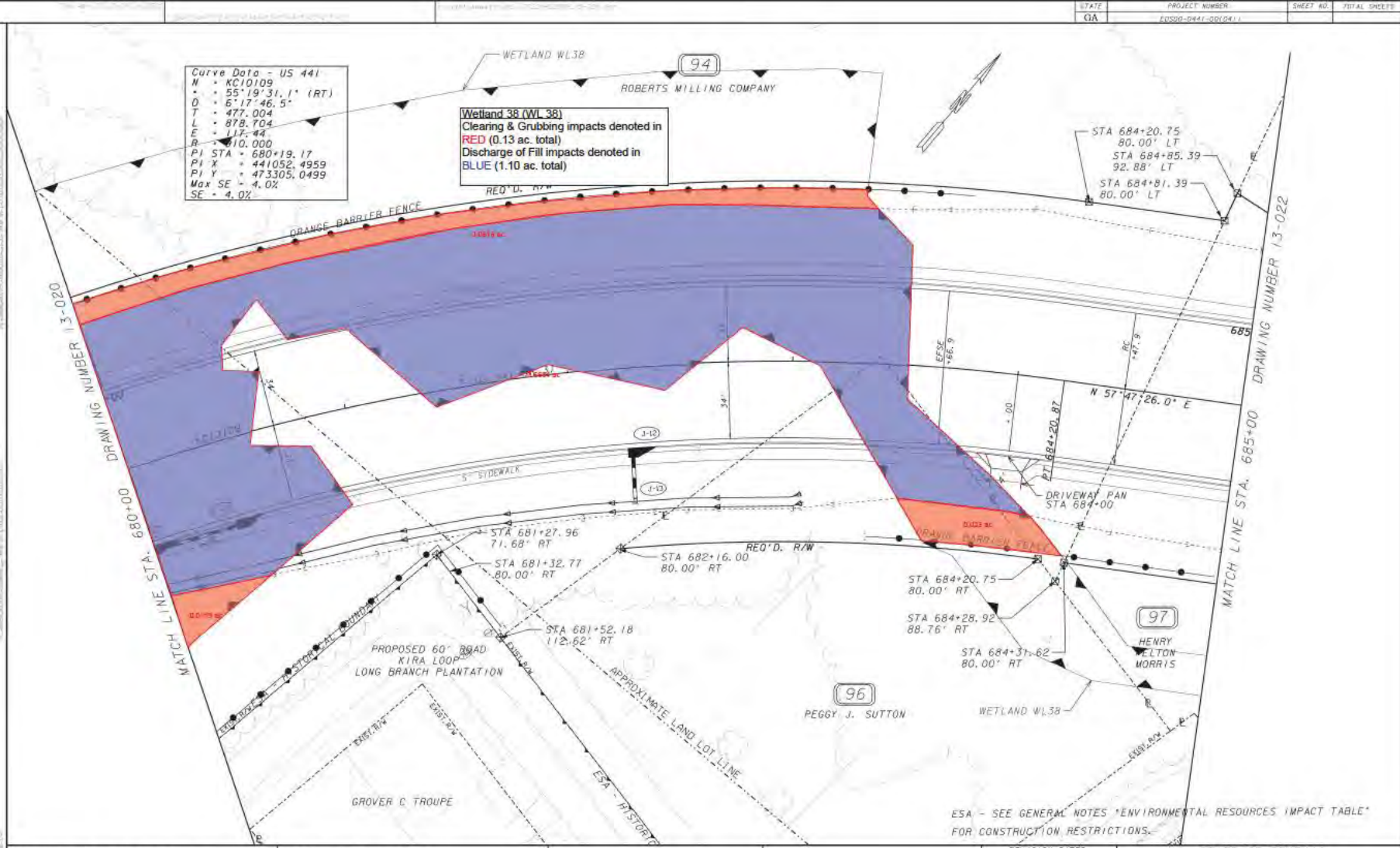


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MAINLINE PLAN
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 COUNTY: ATKINSON

Curve Data - US 441
 N • KC10109
 • • 55°19'31.1" (RT)
 O • 6°17'46.5"
 T • 477.004
 L • 878.704
 E • 117.44
 R • 10.000
 PI STA • 680+19.17
 PI X • 441052.4959
 PI Y • 473305.0499
 Max SE • 4.02
 SE • 4.02%

Wetland 38 (WL 38)
 Clearing & Grubbing impacts denoted in RED (0.13 ac. total)
 Discharge of Fill impacts denoted in BLUE (1.10 ac. total)



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

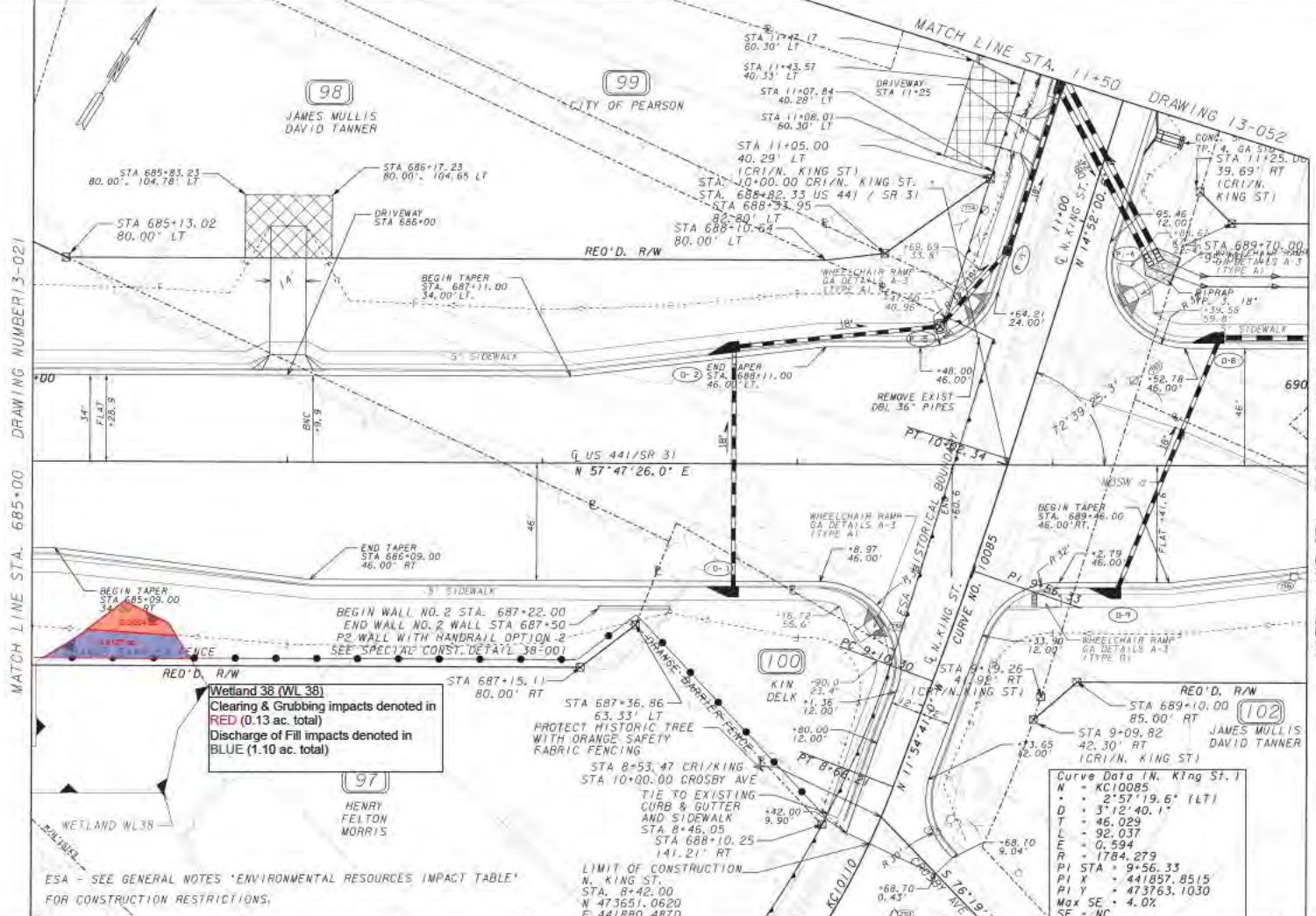
BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ENVIRONMENTALLY SENSITIVE AREA	---

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MATCH LINE STA. 685+00 DRAWING NUMBER 13-021

MATCH LINE STA. 690+00 DRAWING 13-023

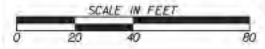
Wetland 38 (WL 38)
 Clearing & Grubbing impacts denoted in **RED** (0.13 ac. total)
 Discharge of Fill impacts denoted in **BLUE** (1.10 ac. total)

N	= KC10085
D	= 2'57"19.6" (LT)
T	= 3'12"40.1"
L	= 46.029
E	= 92.037
R	= 0.594
PI STA	= 1784.279
PI X	= 9.56.33
PI Y	= 441957.8515
Max SE	= 4.0%
SE	= NC

PROPERTY AND EXISTING R/W LINE	—
REQUIRED R/W LINE	—
CONSTRUCTION LIMITS	—
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	—
EASEMENT FOR CONSTR OF SLOPES	—
EASEMENT FOR CONSTR OF DRIVES	—

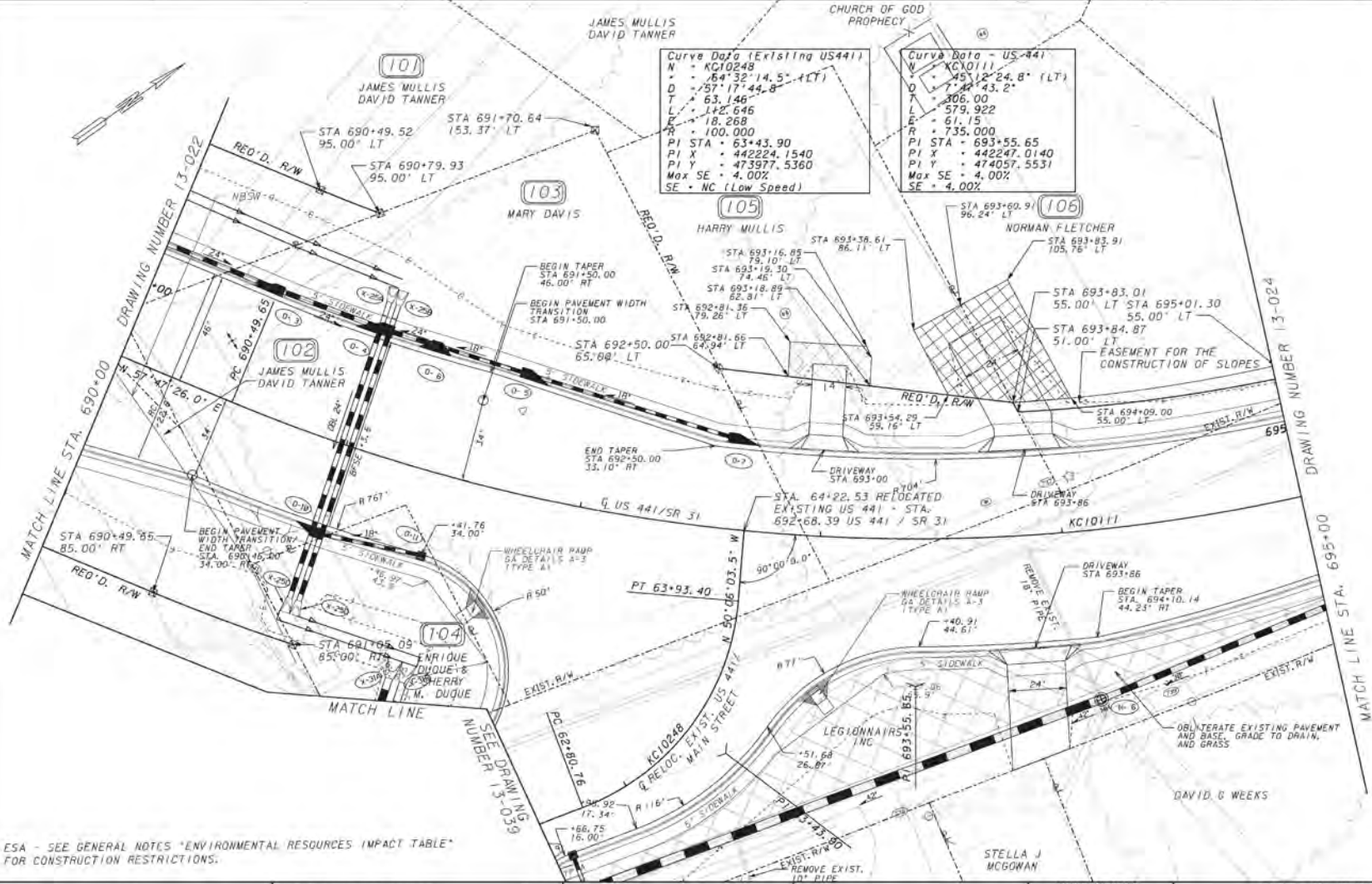
BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	—
REQ'D R/W & LIMIT OF ACCESS	—
ORANGE BARRIER FENCE	—
ENVIRONMENTALLY SENSITIVE AREA	—

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ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE	-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----
EASEMENT FOR CONSTR OF SLOPES	-----
EASEMENT FOR CONSTR OF DRIVES	-----

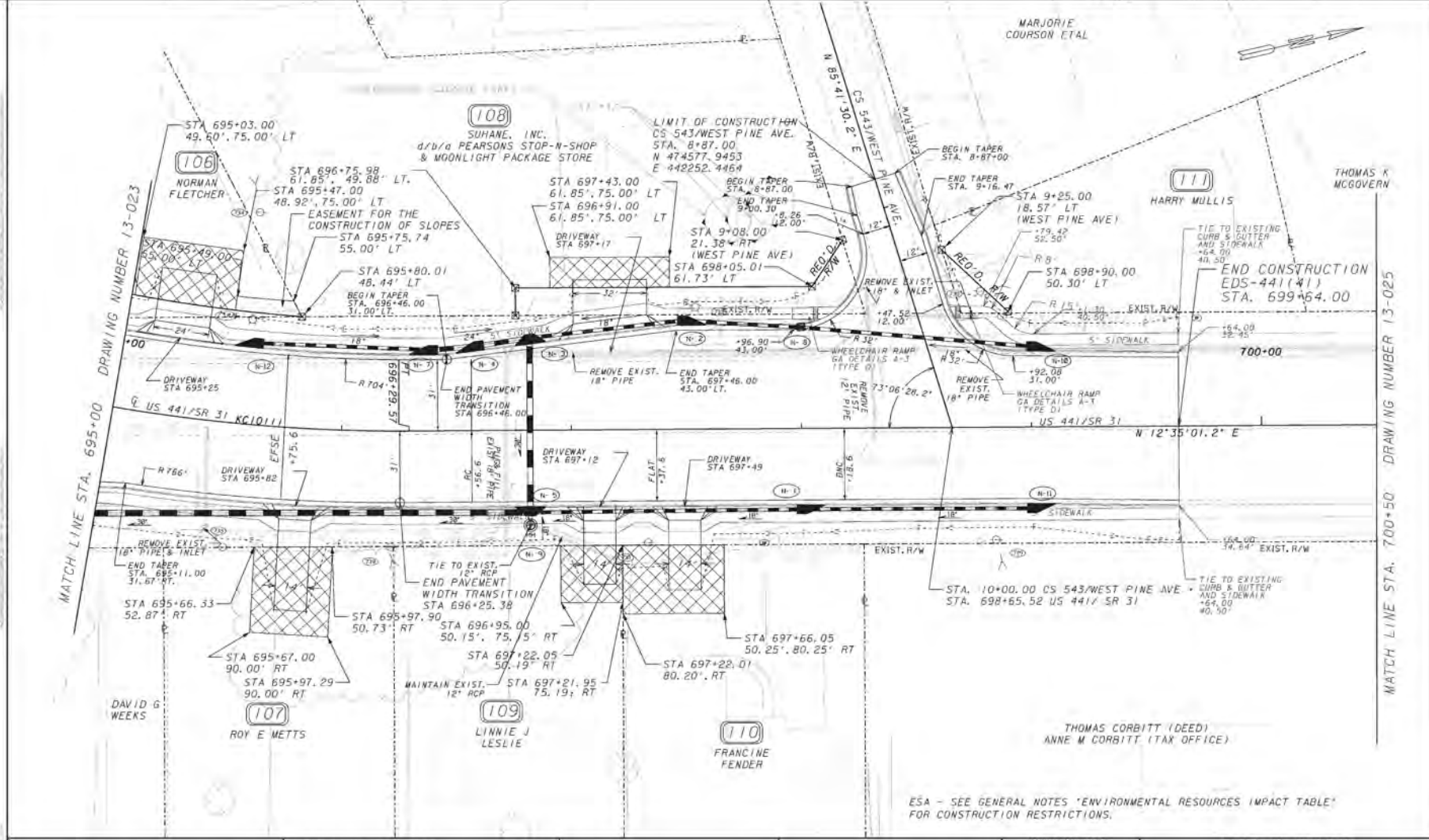
BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	-----
REQ'D R/W & LIMIT OF ACCESS	-----
ORANGE BARRIER FENCE	-----
ENVIRONMENTALLY SENSITIVE AREA	-----

GEORGIA
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REVISION DATES

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PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Cross-hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Diagonal-hatched Box]

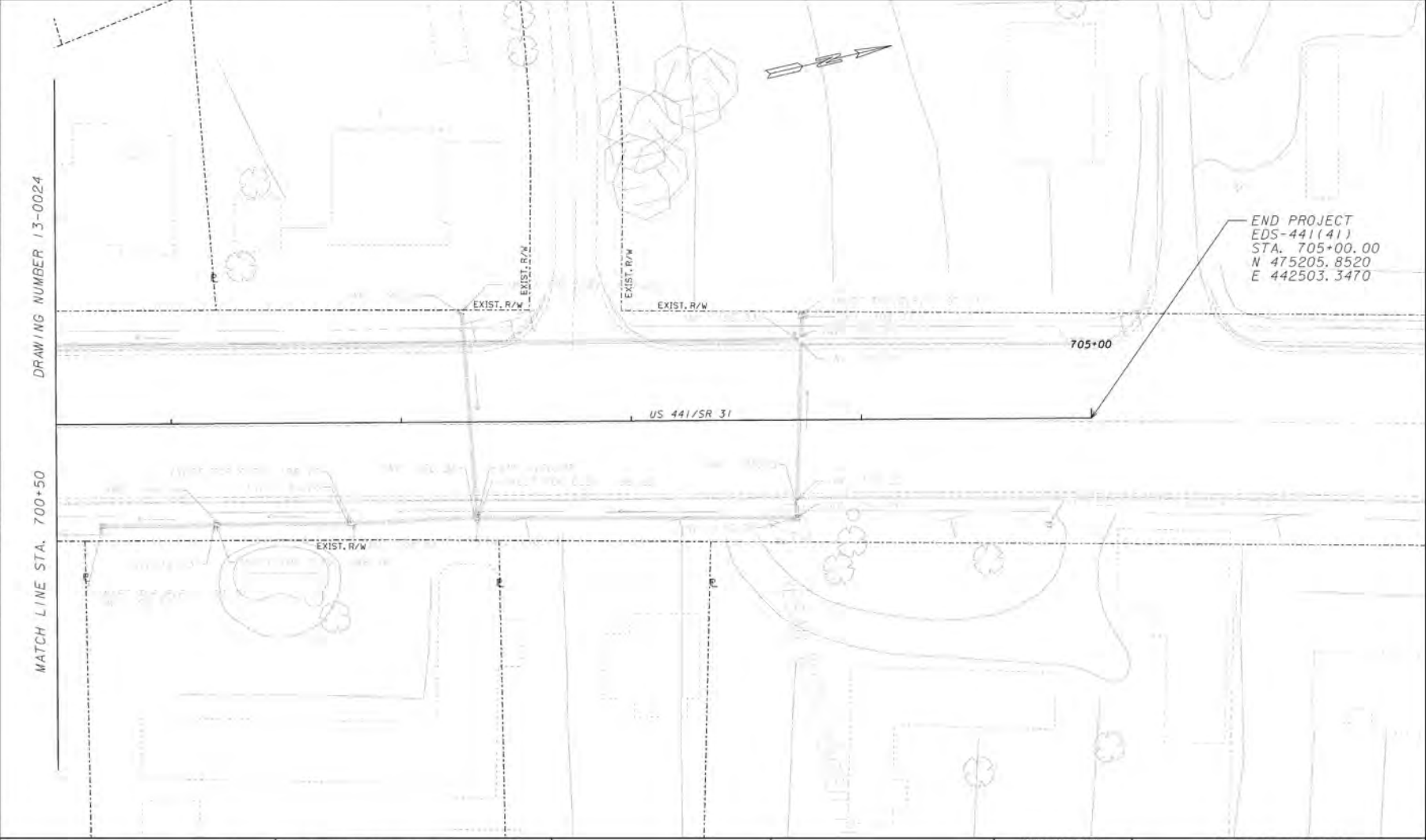
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END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	---
RED'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ENVIRONMENTALLY SENSITIVE AREA	---

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END PROJECT
EDS-441(41)
STA. 705+00.00
N 475205.8520
E 442503.3470

DRAWING NUMBER 13-0024

MATCH LINE STA. 700+50

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ENVIRONMENTALLY SENSITIVE AREA

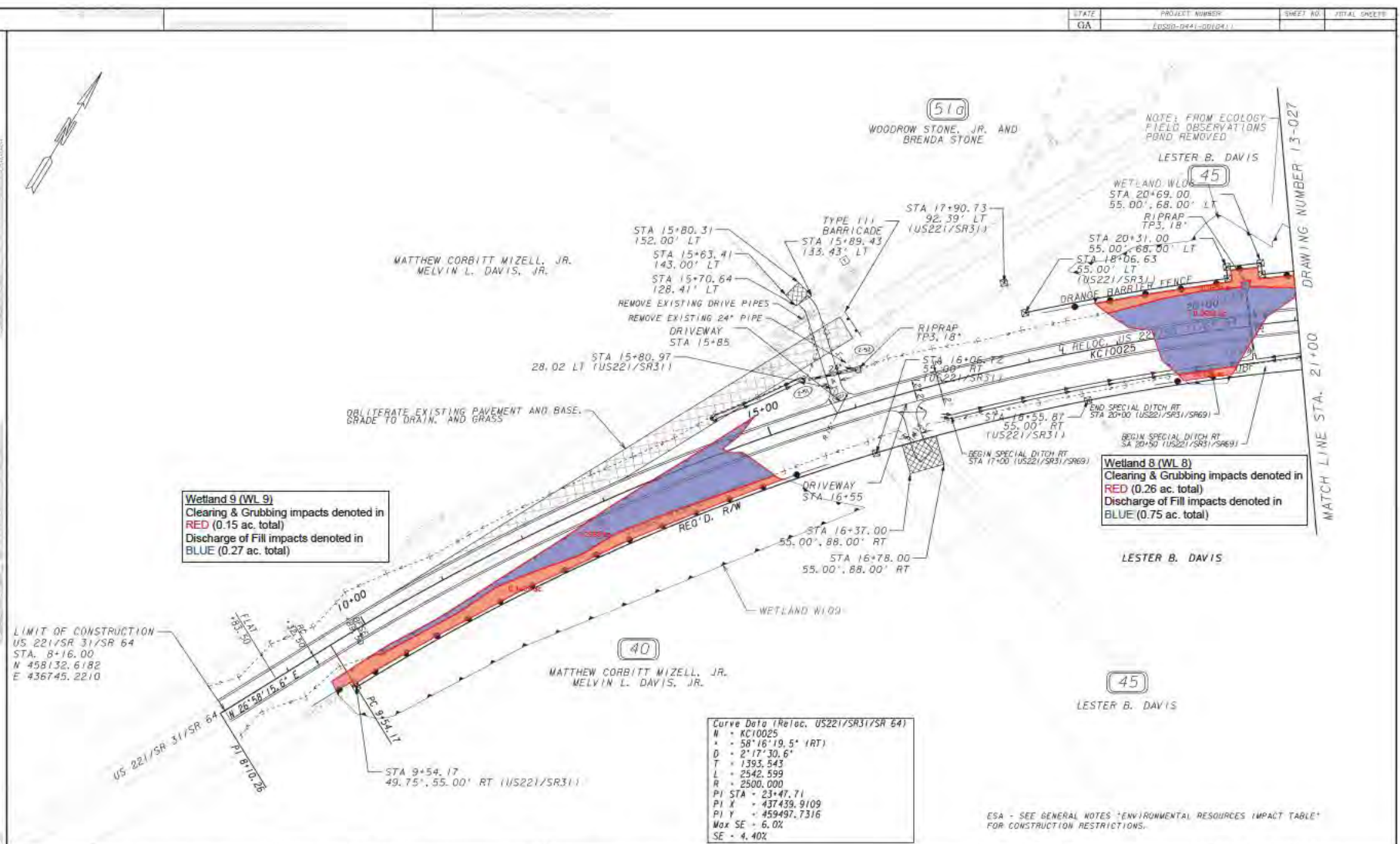
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REVISION DATES

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DEPARTMENT OF TRANSPORTATION
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MAINLINE PLAN
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COUNTY: ATKINSON

13-025



Wetland 8 (WL 8)
 Clearing & Grubbing impacts denoted in RED (0.26 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.75 ac. total)

Curve Data (Heloc. US221/SR31/SR 641)
 N = KC10025
 Δ = 58°16'19.5" (IRT)
 D = 2°17'30.6"
 T = 1393.543
 L = 2542.599
 R = 2500.000
 PI STA = 23+47.71
 PI X = 437439.9109
 PI Y = 459497.7316
 Max SE = 5.0%
 SE = 4.40%

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

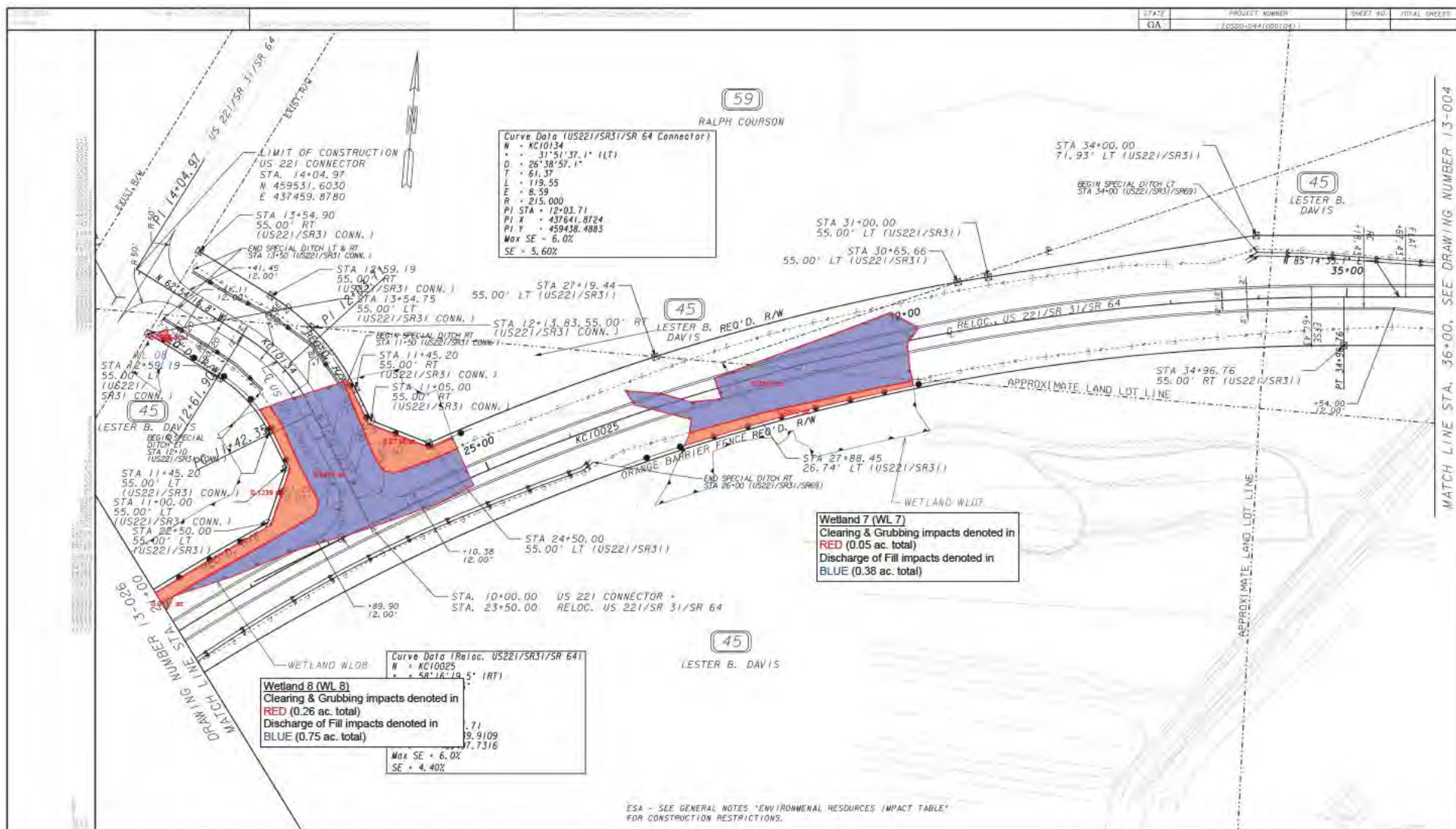
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ENVIRONMENTALLY SENSITIVE AREA

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REVISION DATES

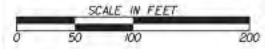
STATE OF GEORGIA
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PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

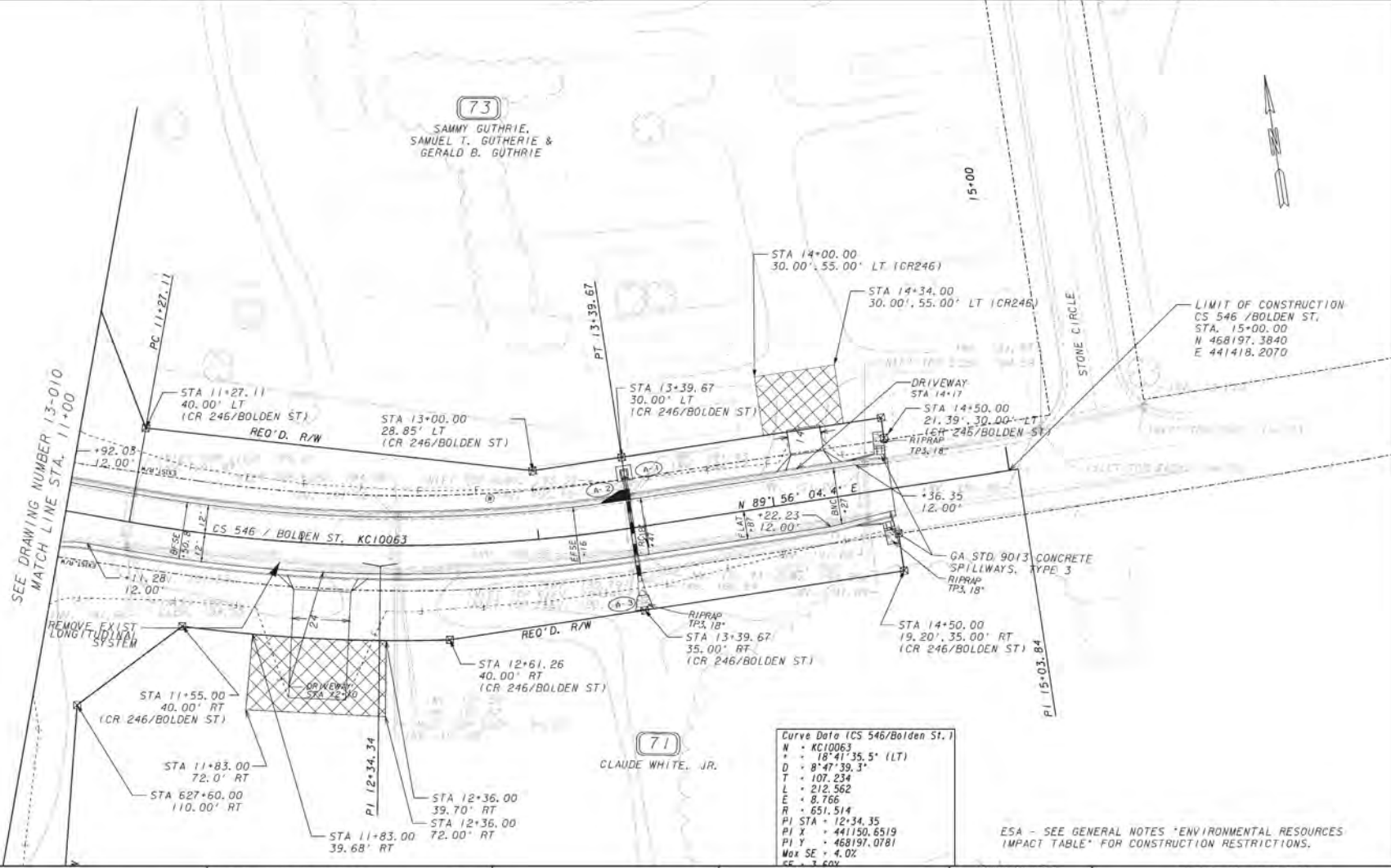
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END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ENVIRONMENTALLY SENSITIVE AREA	---

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PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ENVIRONMENTALLY SENSITIVE AREA

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DEPARTMENT OF TRANSPORTATION
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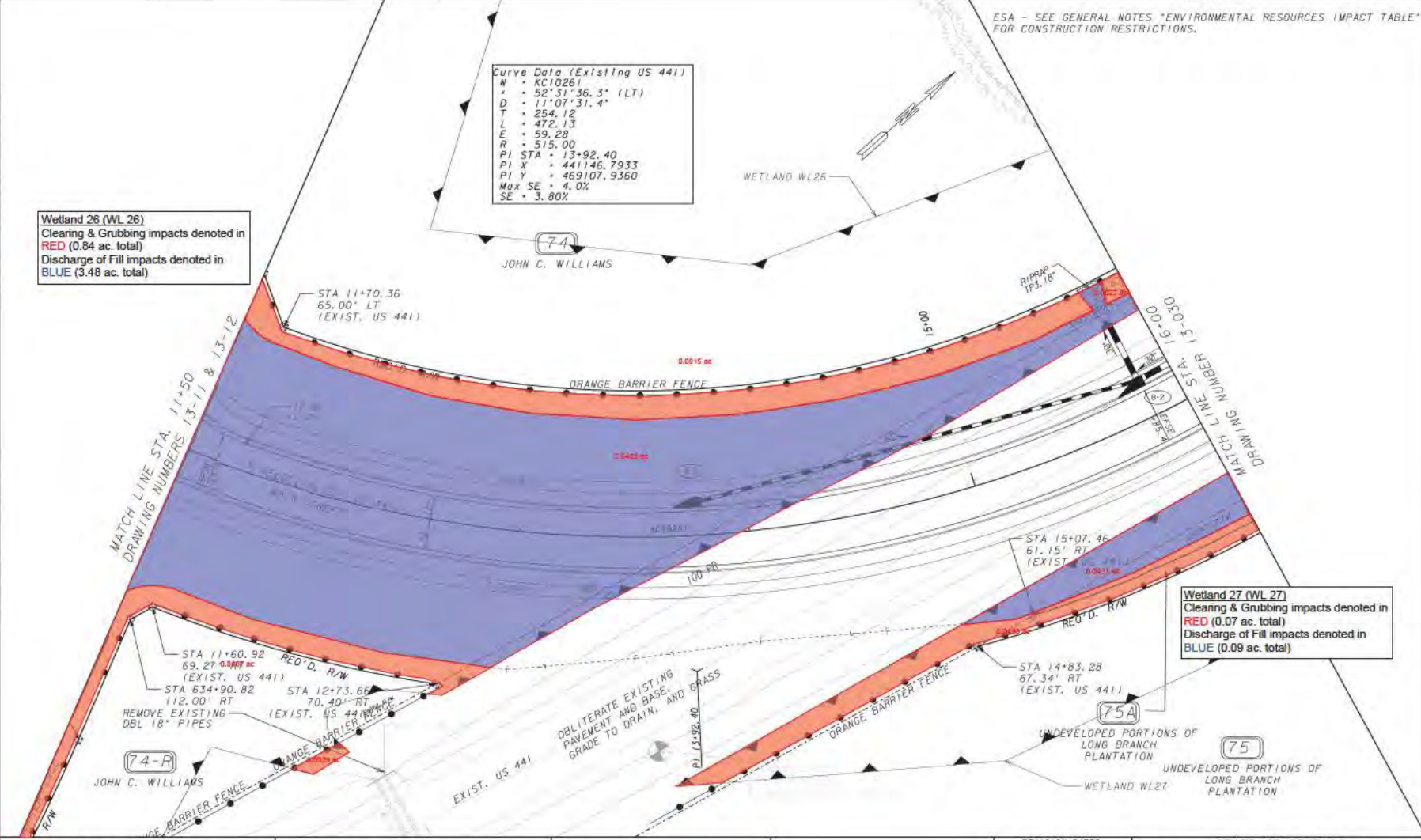
13-028

ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

Curve Data (Existing US 441)
 N = KC10261
 Δ = 52°31'36.3" (LT)
 D = 17'07"31.4"
 T = 254.12
 L = 472.13
 E = 59.28
 R = 515.00
 PI STA = 13+92.40
 PI X = 441146.7933
 PI Y = 469107.9360
 Max SE = 4.0%
 SE = 3.80%

Wetland 26 (WL 26)
 Clearing & Grubbing impacts denoted in RED (0.84 ac. total)
 Discharge of Fill impacts denoted in BLUE (3.48 ac. total)

Wetland 27 (WL 27)
 Clearing & Grubbing impacts denoted in RED (0.07 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.09 ac. total)



PROPERTY AND EXISTING R/W LINE	-----	BEGIN LIMIT OF ACCESS.....	BLA
REQUIRED R/W LINE	-----	END LIMIT OF ACCESS.....	ELA
CONSTRUCTION LIMITS	-----	LIMIT OF ACCESS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----	RED'D R/W & LIMIT OF ACCESS	---
EASEMENT FOR CONSTR OF SLOPES	-----	ESA- ENV. SENSITIVE AREA (SEE ERIT TABLE)	---
EASEMENT FOR CONSTR OF DRIVES	-----	ORANGE BARRIER FENCE	●

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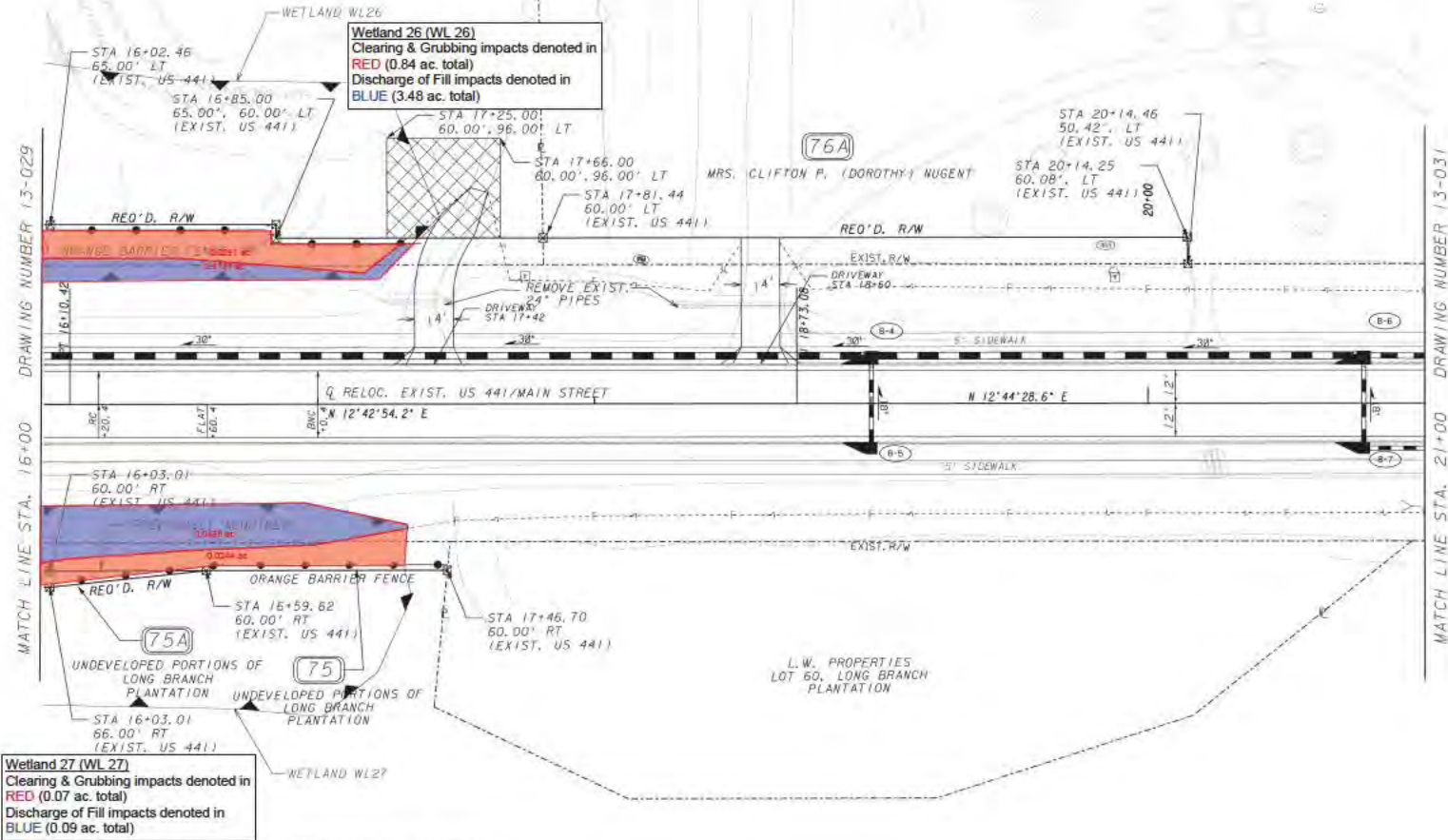


REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
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MAINLINE PLAN
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 COUNTY: ATKINSON

13-029

74
JOHN C. WILLIAMS



DRAWING NUMBER 13-029
MATCH LINE STA. 16+00

DRAWING NUMBER 13-031
MATCH LINE STA. 21+00

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ENVIRONMENTALLY SENSITIVE AREA	---

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REVISION DATES

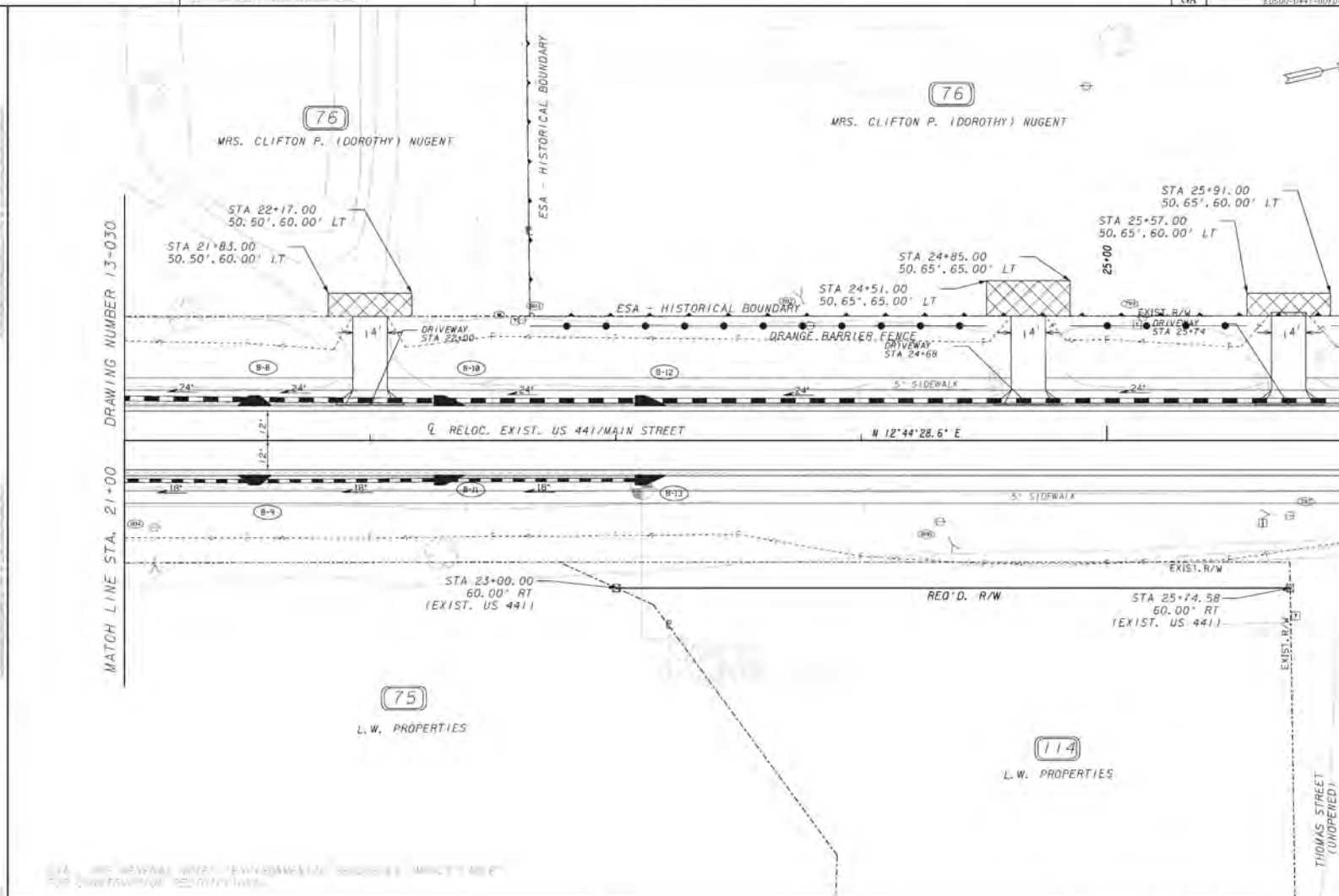
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF ROADWAY DESIGN
MAINLINE PLAN

PROJECT: US 441/SR 89/SR 31
COUNTY: ATKINSON

13-030

MATCH LINE STA. 21+00 DRAWING NUMBER 13-030

MATCH LINE STA. 26+00 DRAWING NUMBER 13-032



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

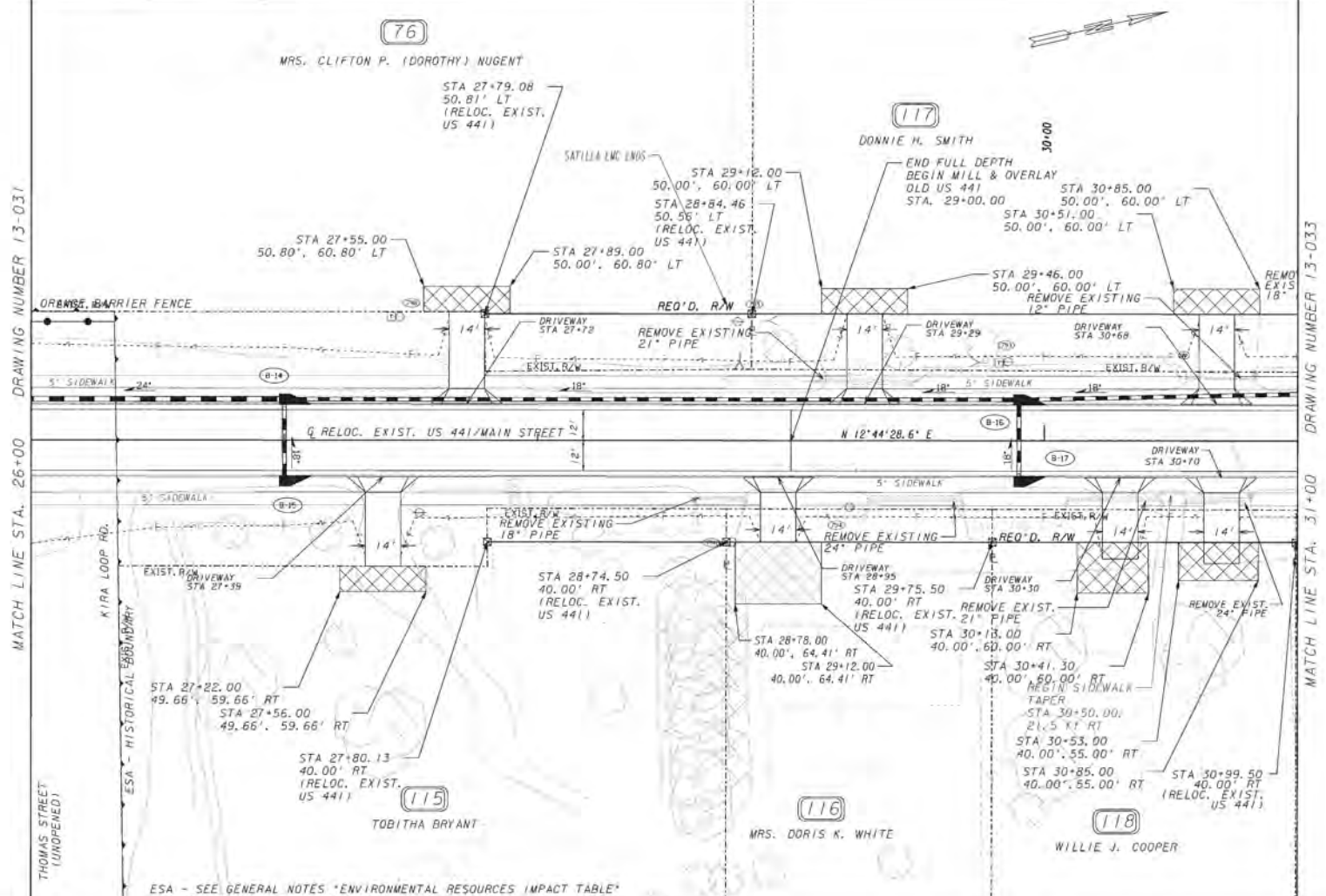
BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
LIMIT OF ACCESS	---	
REQ'D R/W & LIMIT OF ACCESS	---	
ORANGE BARRIER FENCE	—●—●—●—●—	
ENVIRONMENTALLY SENSITIVE AREA	—○—○—○—○—	

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DRAWING NUMBER 13-031

DRAWING NUMBER 13-033

MATCH LINE STA. 26+00

MATCH LINE STA. 31+00

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ESA- ENV. SENSITIVE AREA
 (SEE ERIT TABLE)
 ORANGE BARRIER FENCE

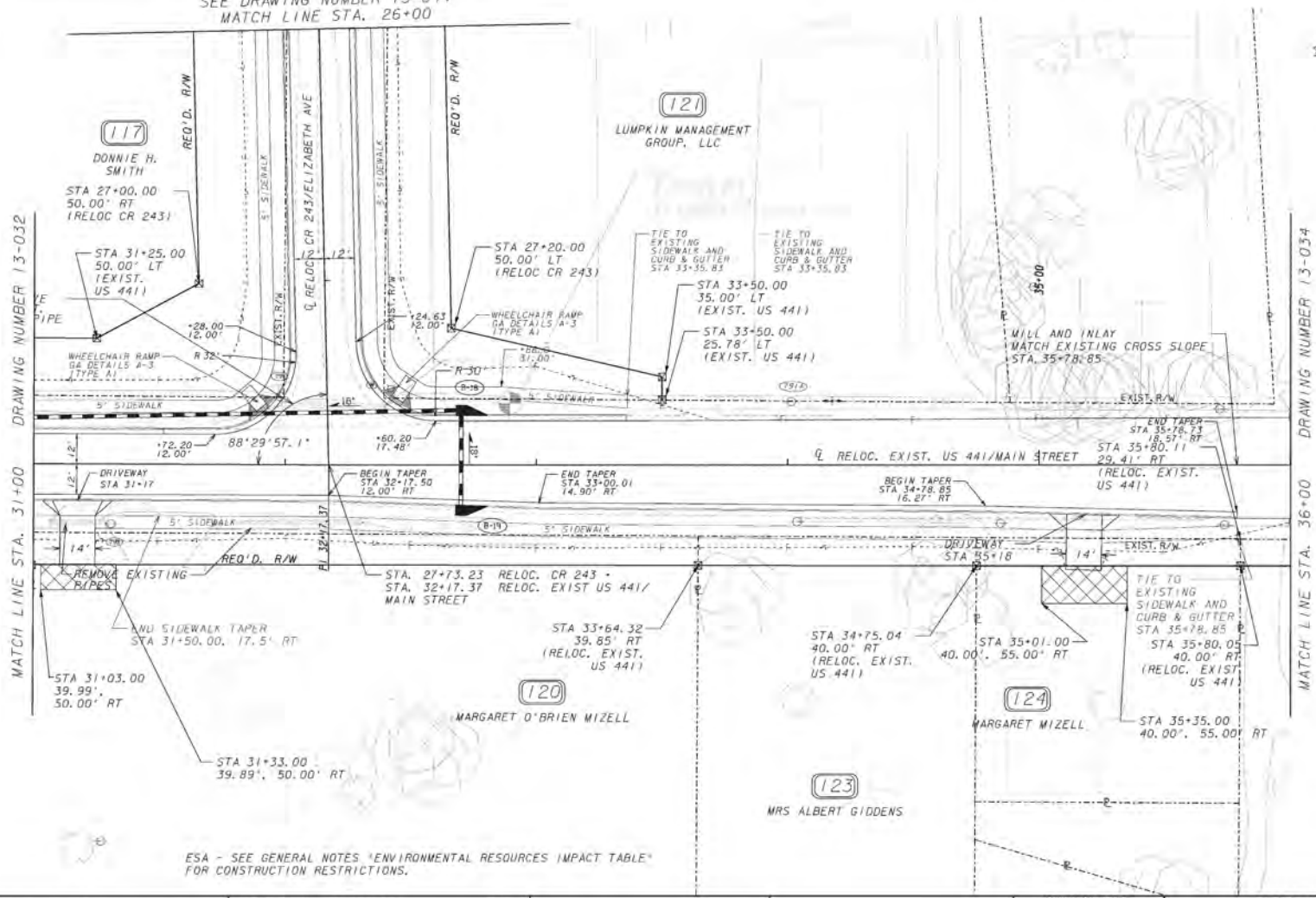
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SEE DRAWING NUMBER 13-044
MATCH LINE STA. 26+00



MATCH LINE STA. 31+00 DRAWING NUMBER 13-032

MATCH LINE STA. 36+00 DRAWING NUMBER 13-034

ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

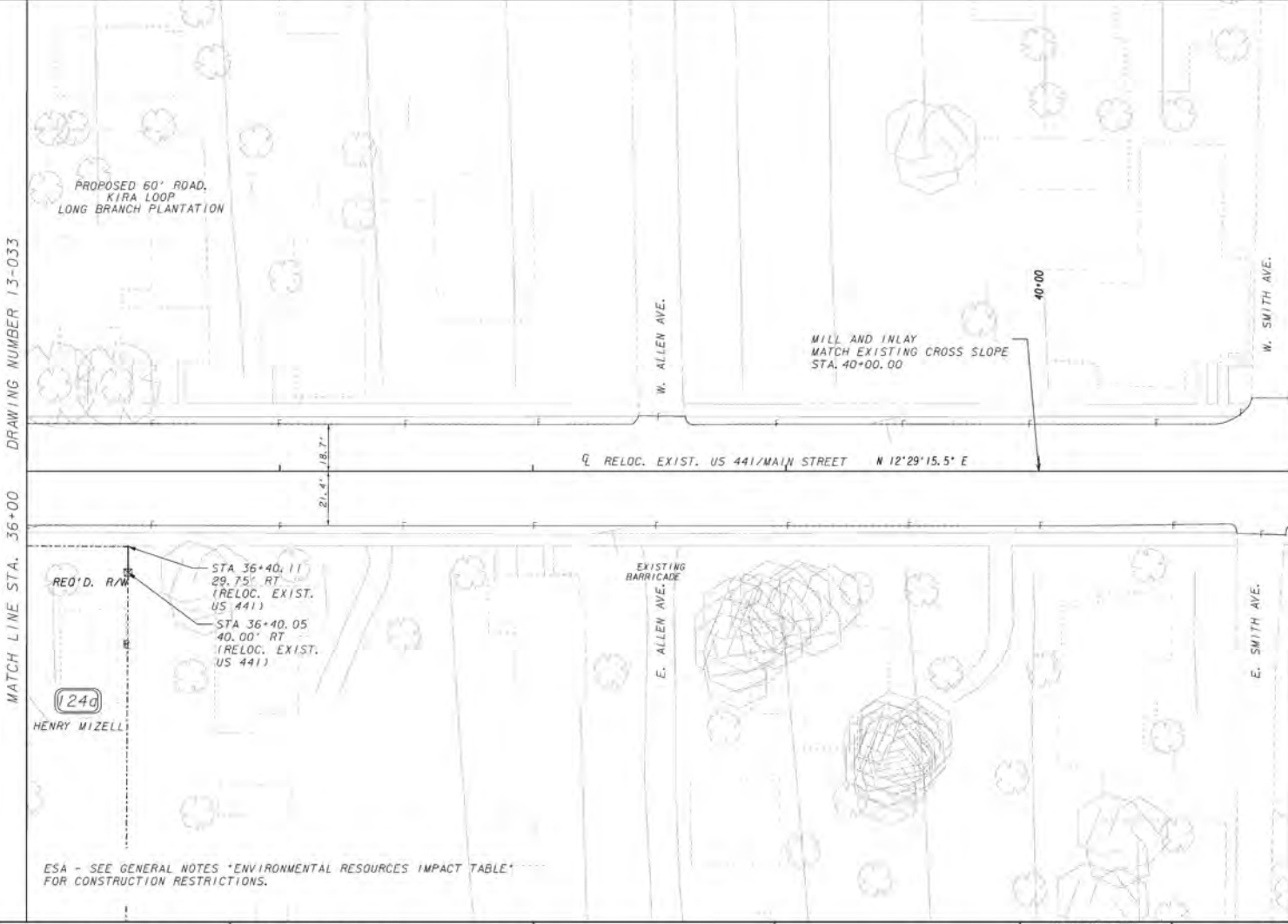
BEGIN LIMIT OF ACCESSBLA
END LIMIT OF ACCESSELA
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ENVIRONMENTALLY SENSITIVE AREA	---

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COUNTY: ATKINSON



DRAWING NUMBER 13-033

DRAWING NUMBER 13-035

MATCH LINE STA. 36+00

MATCH LINE STA. 41+00

STA 36+40.11
 29.75' RT
 (RELOC. EXIST.
 US 441)
 STA 36+40.05
 40.00' RT
 (RELOC. EXIST.
 US 441)

(240)
 HENRY WIZELL

ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE"
 FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE	-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▣

BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	-----
REQ'D R/W & LIMIT OF ACCESS	▨
ORANGE BARRIER FENCE	▩
ENVIRONMENTALLY SENSITIVE AREA	▣

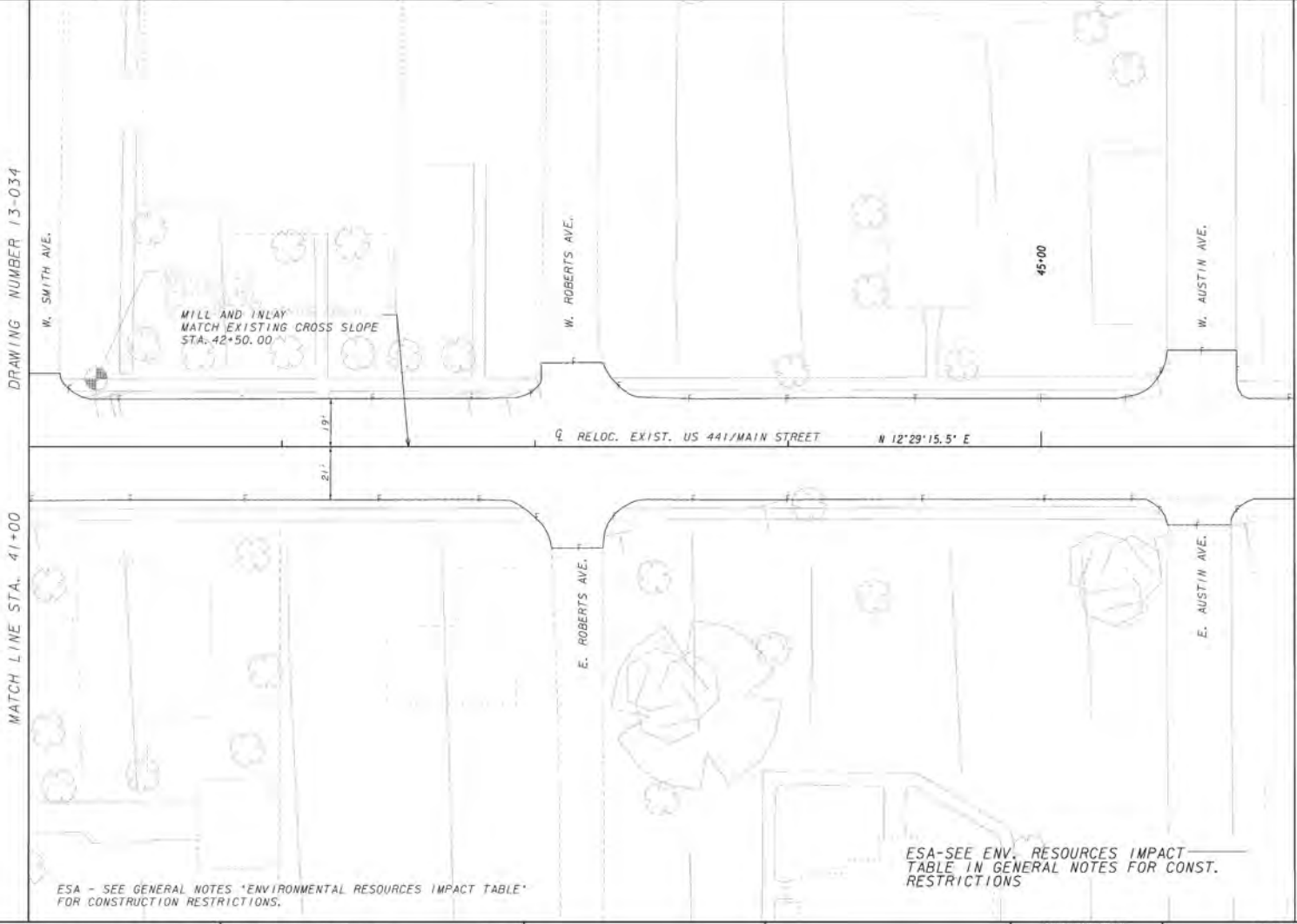
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MAINLINE PLAN
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 COUNTY: ATKINSON

SHEET NO. 13-034



DRAWING NUMBER 13-034

MATCH LINE STA. 41+00

DRAWING NUMBER 13-036

MATCH LINE STA. 46+00

MILL AND INLAY
MATCH EXISTING CROSS SLOPE
STA. 42+50.00

45+00

W. ROBERTS AVE.

W. AUSTIN AVE.

E. ROBERTS AVE.

E. AUSTIN AVE.

RELOC. EXIST. US 441/MAIN STREET N 12°29'15.5" E

ESA - SEE GENERAL NOTES 'ENVIRONMENTAL RESOURCES IMPACT TABLE' FOR CONSTRUCTION RESTRICTIONS.

ESA-SEE ENV. RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONST. RESTRICTIONS

PROPERTY AND EXISTING R/W LINE	-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨▨▨▨
EASEMENT FOR CONSTR OF SLOPES	▧▧▧▧
EASEMENT FOR CONSTR OF DRIVES	▩▩▩▩

BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	-----
REQ'D R/W & LIMIT OF ACCESS	▨▨▨▨
ORANGE BARRIER FENCE	▧▧▧▧
ENVIRONMENTALLY SENSITIVE AREA	▩▩▩▩

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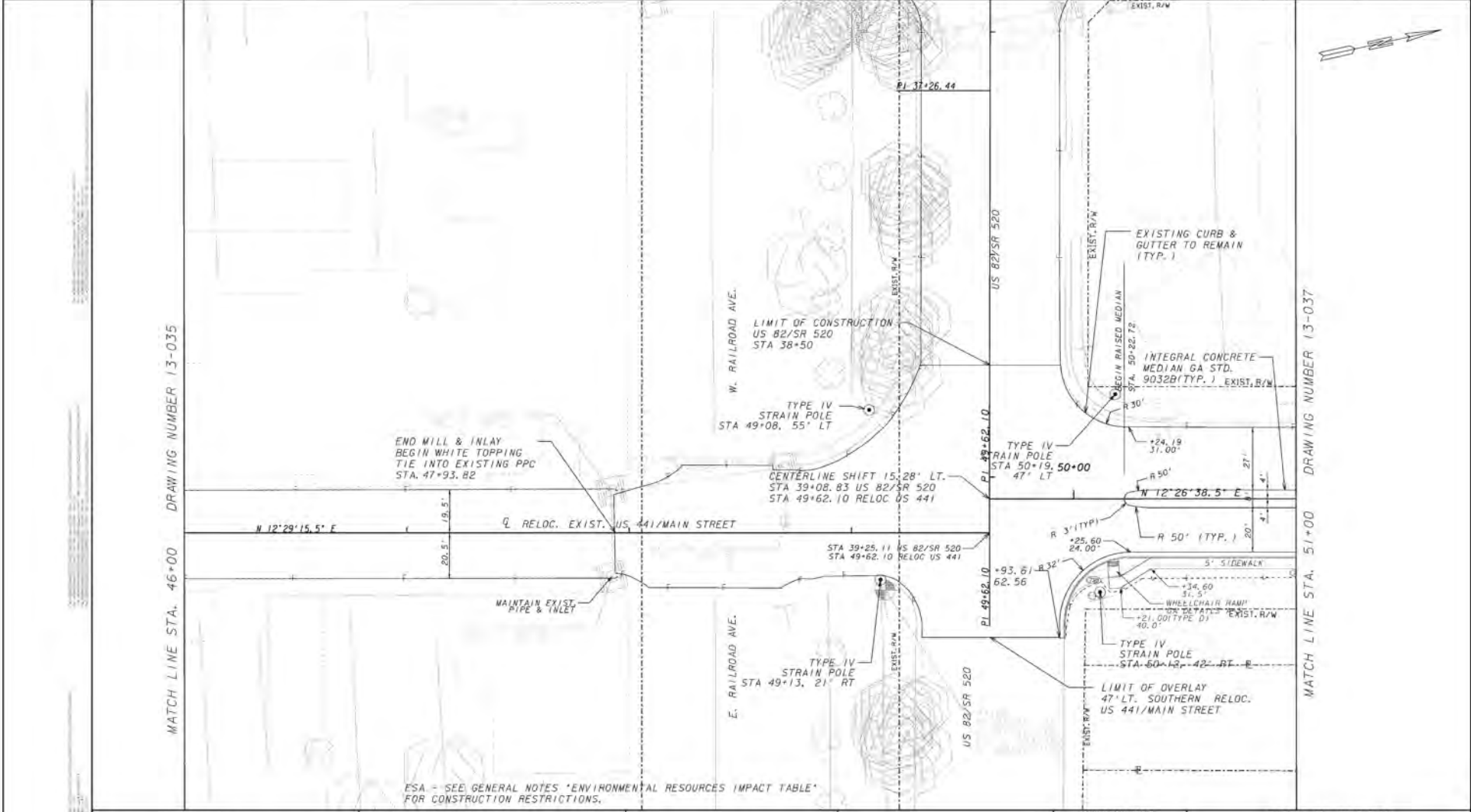


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STATE OF GEORGIA
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MAINLINE PLAN

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COUNTY: ATKINSON

13-035



MATCH LINE STA. 46+00 DRAWING NUMBER 13-035

MATCH LINE STA. 51+00 DRAWING NUMBER 13-037

PROPERTY AND EXISTING R/W LINE	-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	-----
END LIMIT OF ACCESS.....ELA	-----
LIMIT OF ACCESS	-----
REQ'D R/W & LIMIT OF ACCESS	-----
ORANGE BARRIER FENCE	
ENVIRONMENTALLY SENSITIVE AREA	

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STATE OF GEORGIA
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OFFICE: OFFICE OF ROADWAY DESIGN
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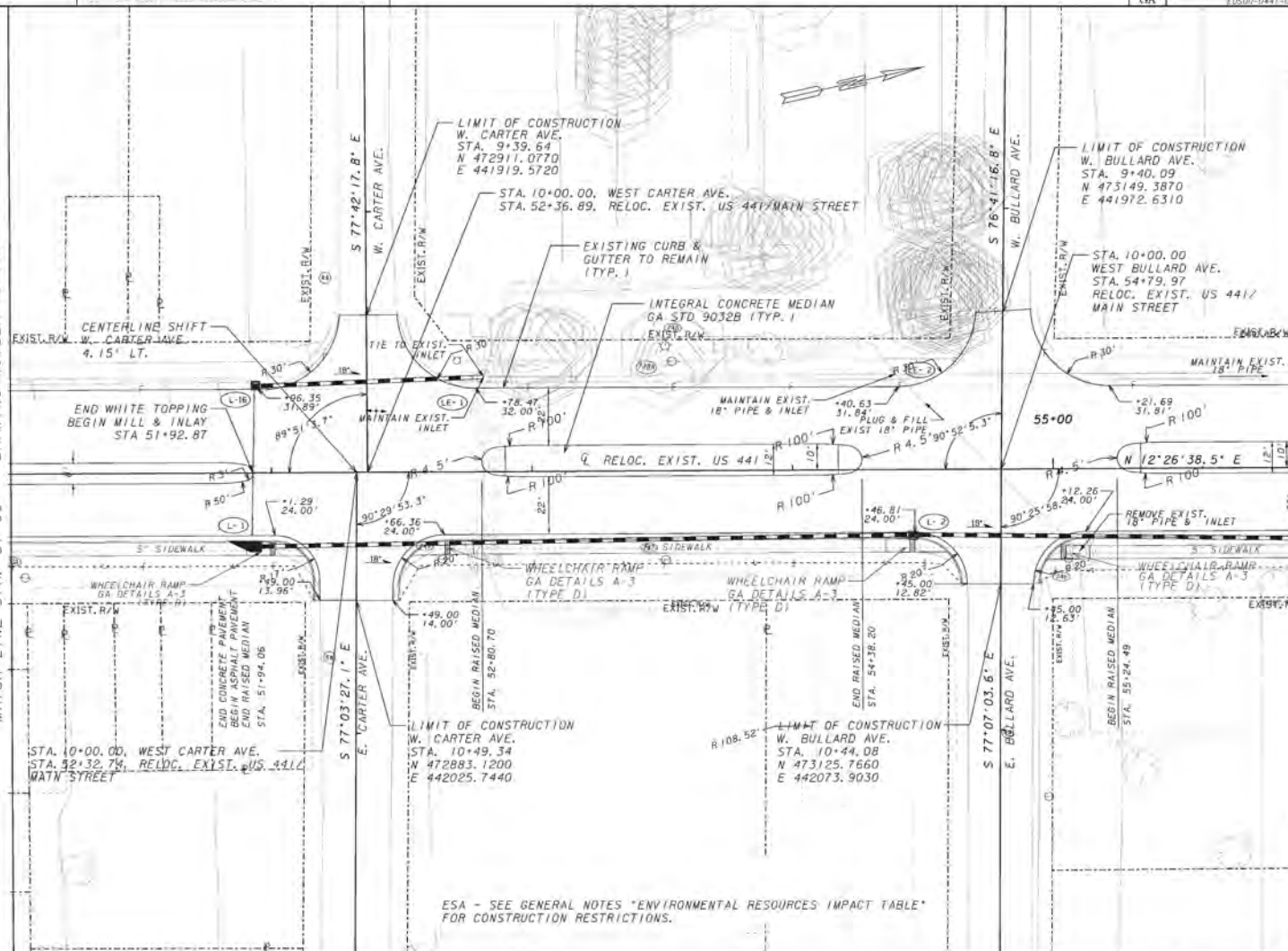
PROJECT: US 441/SR 89/SR 31
COUNTY: ATKINSON

13-036

ESA - SEE GENERAL NOTES 'ENVIRONMENTAL RESOURCES IMPACT TABLE' FOR CONSTRUCTION RESTRICTIONS.

DRAWING NUMBER 13-036
MATCH LINE STA. 51+00

DRAWING NUMBER 13-038
MATCH LINE STA. 56+00



ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE	-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

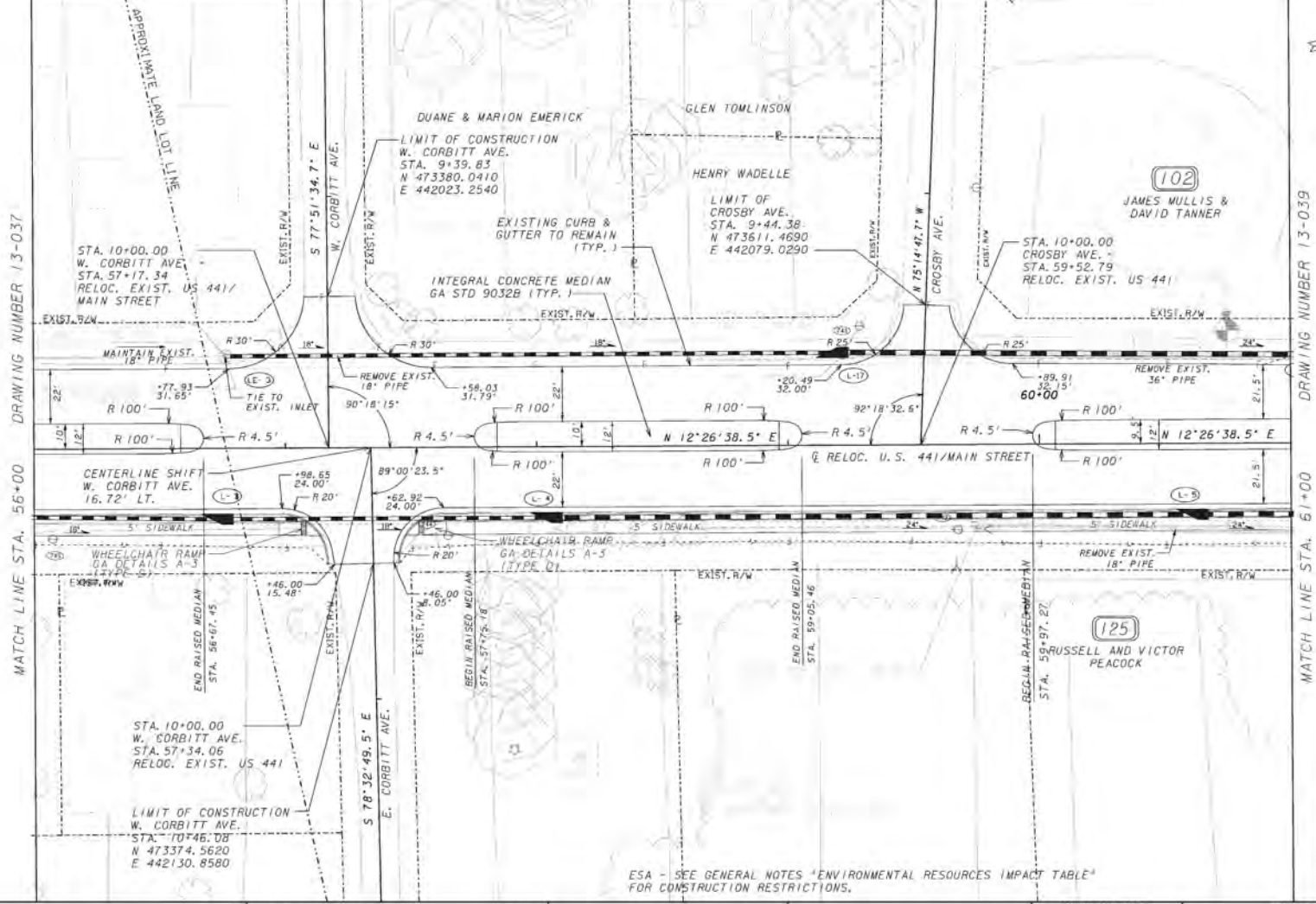
BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	-----
REQ'D R/W & LIMIT OF ACCESS	-----
ORANGE BARRIER FENCE	-----
ENVIRONMENTALLY SENSITIVE AREA	-----

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DRAWING NUMBER 13-037

DRAWING NUMBER 13-039

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ENVIRONMENTALLY SENSITIVE AREA	---

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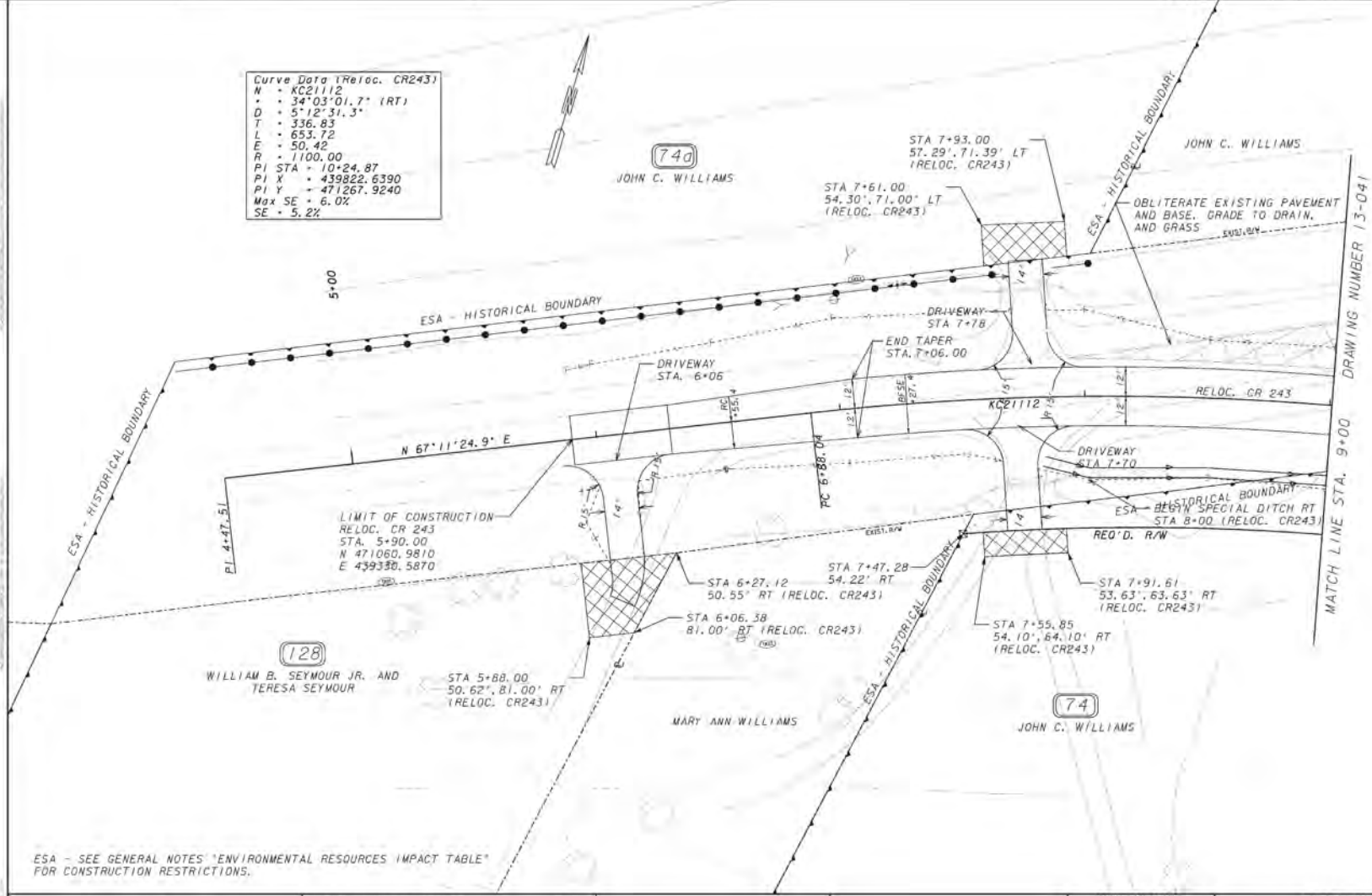


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COUNTY: ATKINSON

Curve Data (Reloc. CR243)
 N - KC21112
 Δ - 34°03'01.7" (RT)
 D - 5'12"31.3"
 T - 336.83
 L - 653.72
 E - 50.42
 R - 1100.00
 PI STA - 10+24.87
 PI X - 439822.6390
 PI Y - 471267.9240
 Max SE - 6.0%
 SE - 5.2%



ESA - SEE GENERAL NOTES 'ENVIRONMENTAL RESOURCES IMPACT TABLE' FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE	-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Hatched Box]

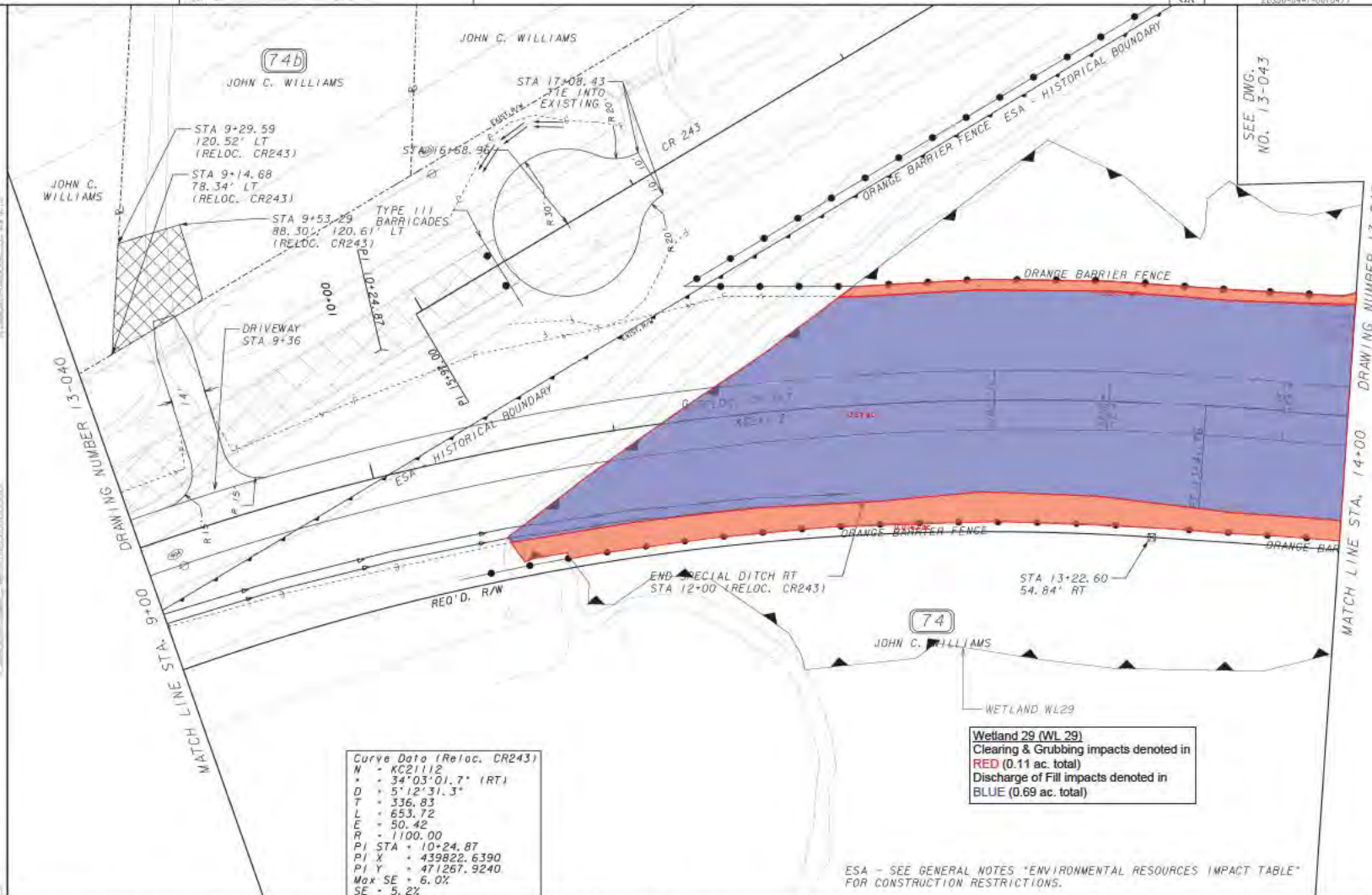
BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	-----
REQ'D R/W & LIMIT OF ACCESS	-----
ORANGE BARRIER FENCE	-----
ENVIRONMENTALLY SENSITIVE AREA	-----

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 COUNTY: ATKINSON



Curve Data (Reloc. CR243)

N	=	KC21112
A	=	34°03'01.7" (RT)
D	=	5'12'31.3"
T	=	336.83
L	=	653.72
E	=	50.42
R	=	1100.00
PI STA	=	10+24.87
PI X	=	439822.6390
PI Y	=	471267.9240
Max SE	=	6.0%
SE	=	5.2%

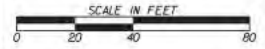
Wetland 29 (WL 29)
 Clearing & Grubbing impacts denoted in RED (0.11 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.69 ac. total)

ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	
END LIMIT OF ACCESS.....ELA	
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	
ENVIRONMENTALLY SENSITIVE AREA	

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 OFFICE: OFFICE OF ROADWAY DESIGN
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 COUNTY: ATKINSON

13-041

SEE DWG. NO. 13-043

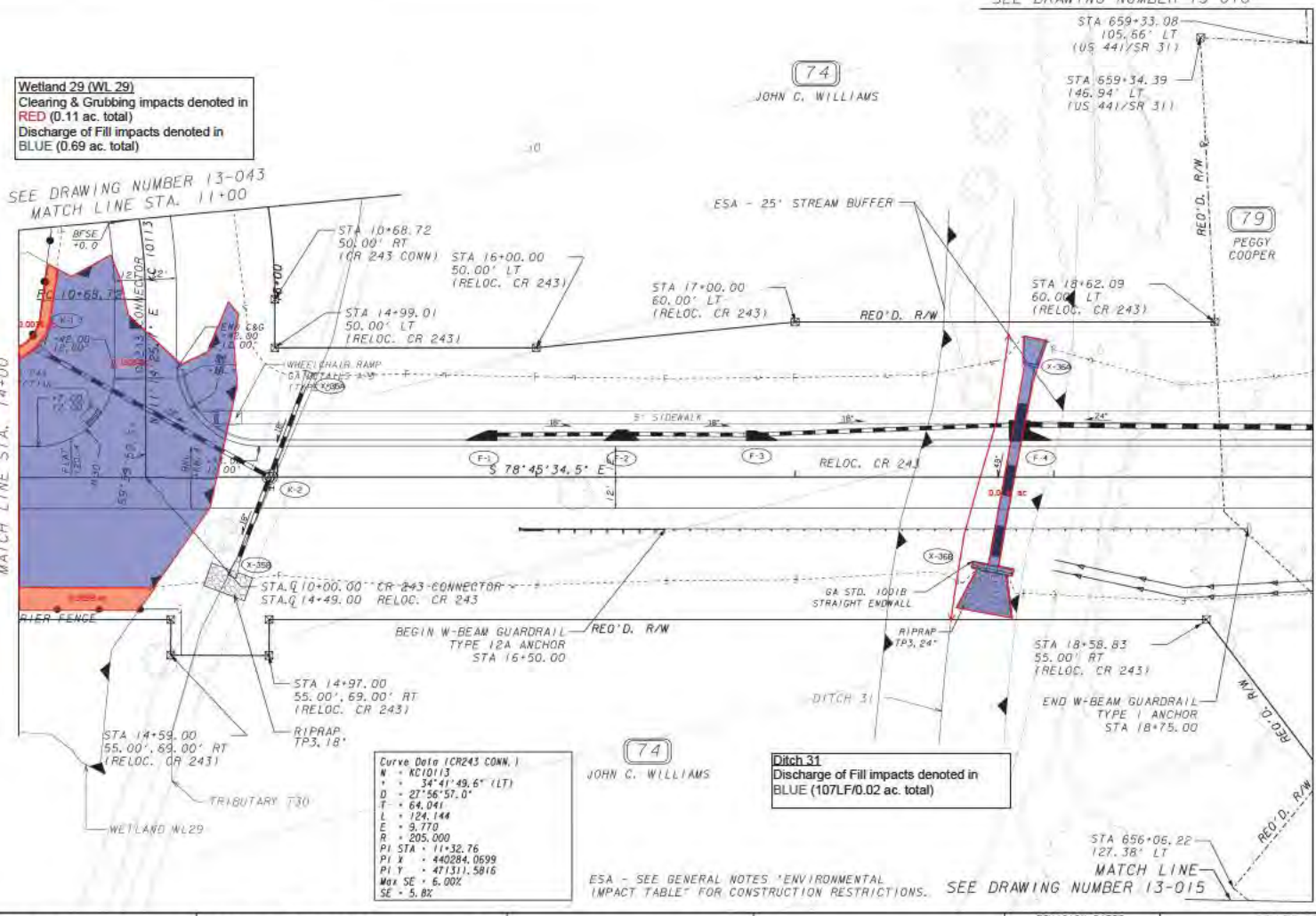


Wetland 29 (WL 29)
 Clearing & Grubbing impacts denoted in RED (0.11 ac. total)
 Discharge of Fill impacts denoted in BLUE (0.69 ac. total)

SEE DRAWING NUMBER 13-043
 MATCH LINE STA. 11+00

SEE DRAWING NUMBER 13-041
 MATCH LINE STA. 14+00

MATCH LINE
 SEE DRAWING NUMBER 13-016



Curve Data (CR243 CONN.)
 W - KC10113
 Δ - 34°41'49.6" (LT)
 D - 27°56'57.0"
 T - 64.041
 L - 124.144
 E - 5.770
 R - 205.000
 PI STA - 11+32.76
 P2 - 440284.0699
 P1 Y - 471311.5816
 Max SE - 6.00%
 SE - 5.8%

Ditch 31
 Discharge of Fill impacts denoted in BLUE (107LF/0.2 ac. total)

ESA - SEE GENERAL NOTES "ENVIRONMENTAL IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS. SEE DRAWING NUMBER 13-015

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	
ENVIRONMENTALLY SENSITIVE AREA	

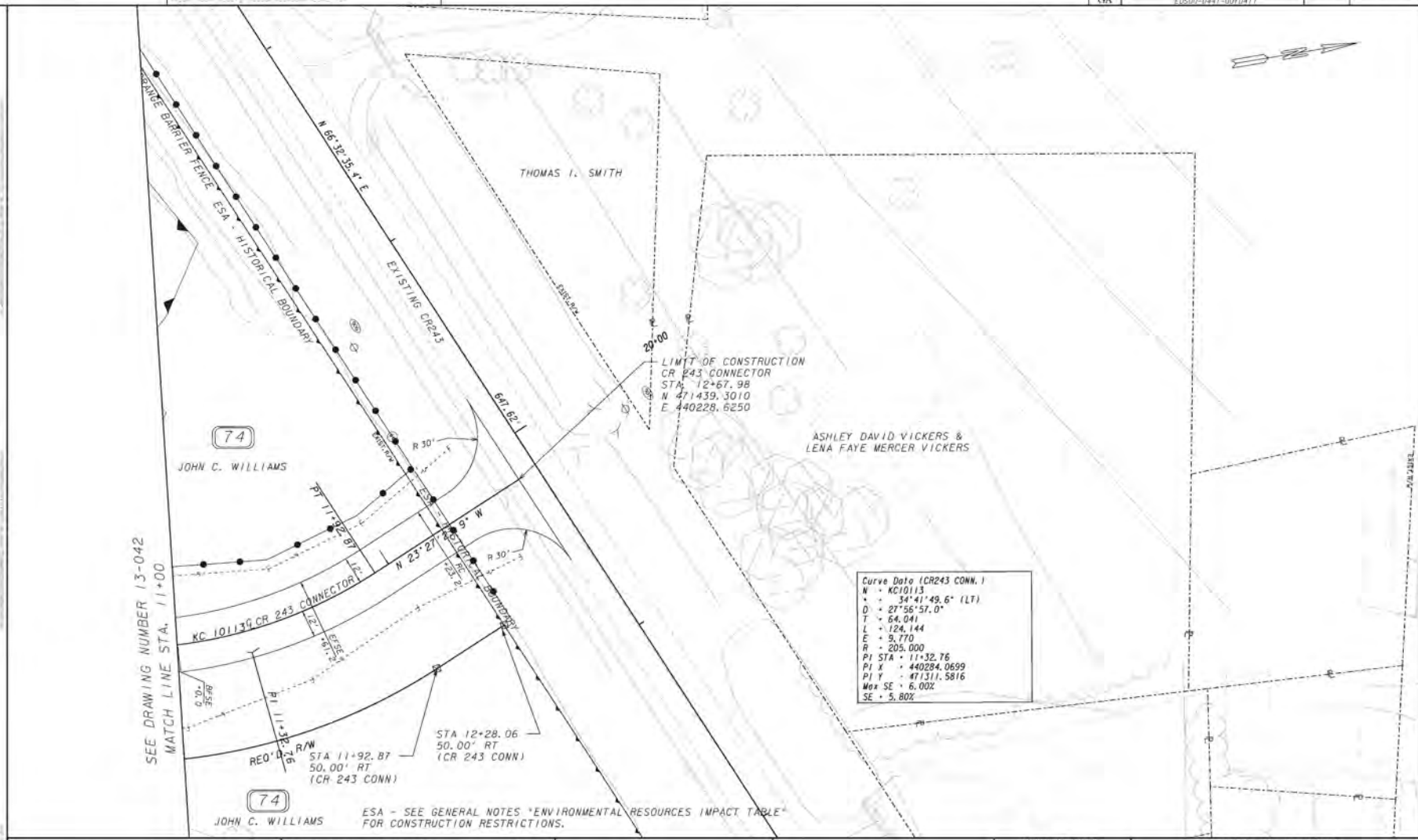
GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION



REVISION DATES	

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: OFFICE OF ROADWAY DESIGN
MAINLINE PLAN

PROJECT: US 441/SR 89/SR 31
 COUNTY: ATKINSON



Curve Data (CR243 CONN. 1)	
N	• KC10113
A	• 34°41'48.6" (LT)
D	• 27°56'57.0"
T	• 64.041
L	• 124.144
E	• 3.770
R	• 205.000
PI STA	• 11+32.76
PI X	• 440284.0699
PI Y	• 471317.5816
Max SE	• 6.00%
SE	• 5.80%

SEE DRAWING NUMBER 13-042
MATCH LINE STA. 11+00

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	----
CONSTRUCTION LIMITS	-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	---
REO'D R/W & LIMIT OF ACCESS	----
ORANGE BARRIER FENCE	▨
ENVIRONMENTALLY SENSITIVE AREA	▩

GEORGIA
DEPARTMENT
OF
TRANSPORTATION



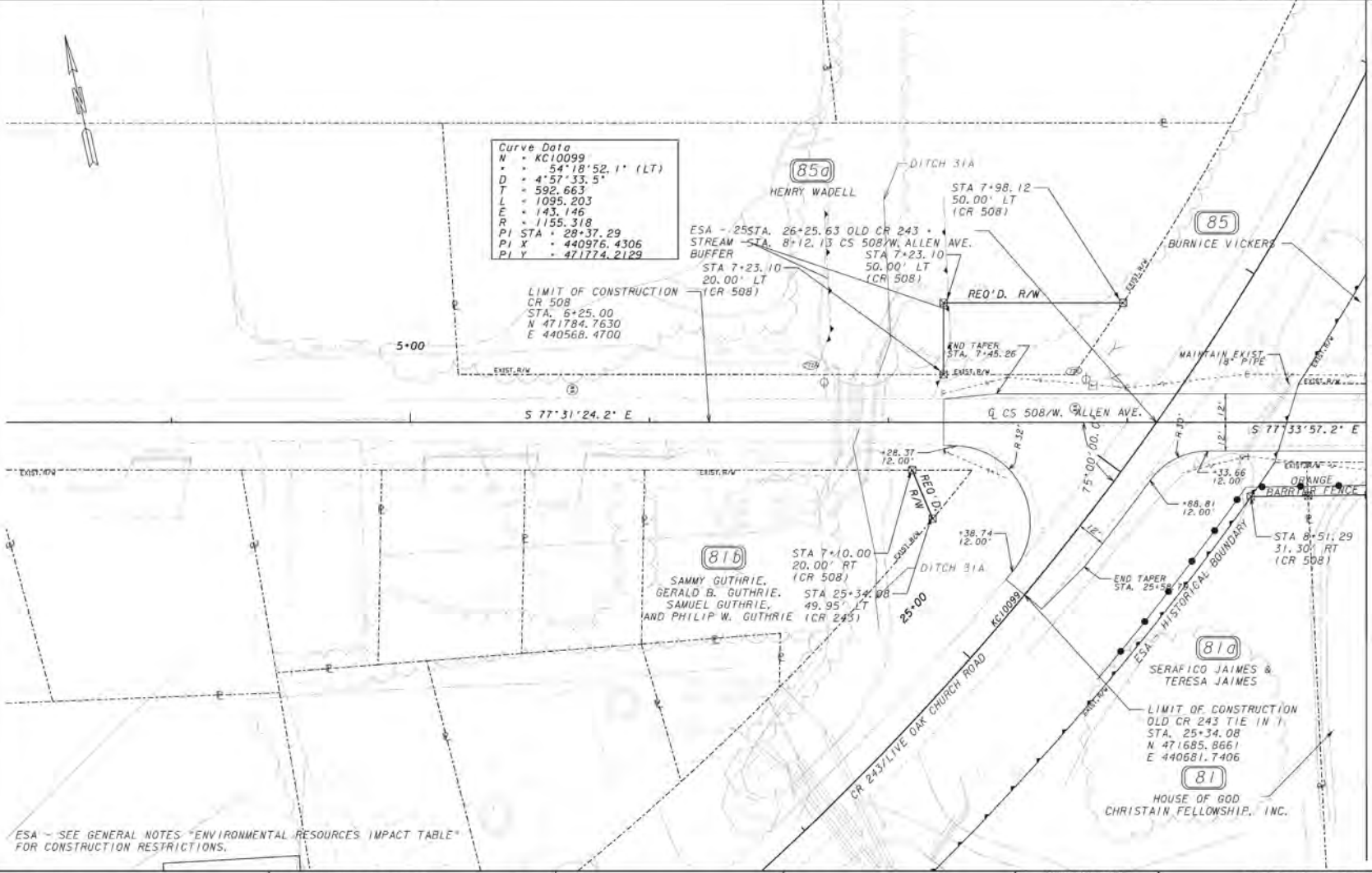
REVISION DATES	

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: OFFICE OF ROADWAY DESIGN

MAINLINE PLAN

PROJECT: US 441/SR 89/SR 31
COUNTY: ATKINSON

13-043



Curve Data
 N - KC10099
 Δ - 54°18'52.1" (LT)
 D - 4°57'33.5"
 T - 592.663
 L - 1095.203
 E - 143.146
 R - 1155.318
 PI STA - 28+37.29
 PI X - 440976.4306
 PI Y - 471774.2129

LIMIT OF CONSTRUCTION
 CR 508
 STA. 6+25.00
 N 471784.7630
 E 440568.4700

81b
 STA 7+10.00
 20.00' RT (CR 508)
 SAMMY GUTHRIE,
 GERALD B. GUTHRIE,
 SAMUEL GUTHRIE,
 AND PHILIP W. GUTHRIE (CR 243)

81a
 STA. 25+34.08
 N 471685.8661
 E 440681.7406
 SERAFICO JAIMES &
 TERESA JAIMES

81
 HOUSE OF GOD
 CHRISTAIN FELLOWSHIP, INC.

ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE	-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----
EASEMENT FOR CONSTR OF SLOPES	-----
EASEMENT FOR CONSTR OF DRIVES	-----

BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	-----
REQ'D R/W & LIMIT OF ACCESS	-----
ORANGE BARRIER FENCE	-----
ENVIRONMENTALLY SENSITIVE AREA	-----

GEORGIA
 DEPARTMENT
 OF
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REVISION DATES

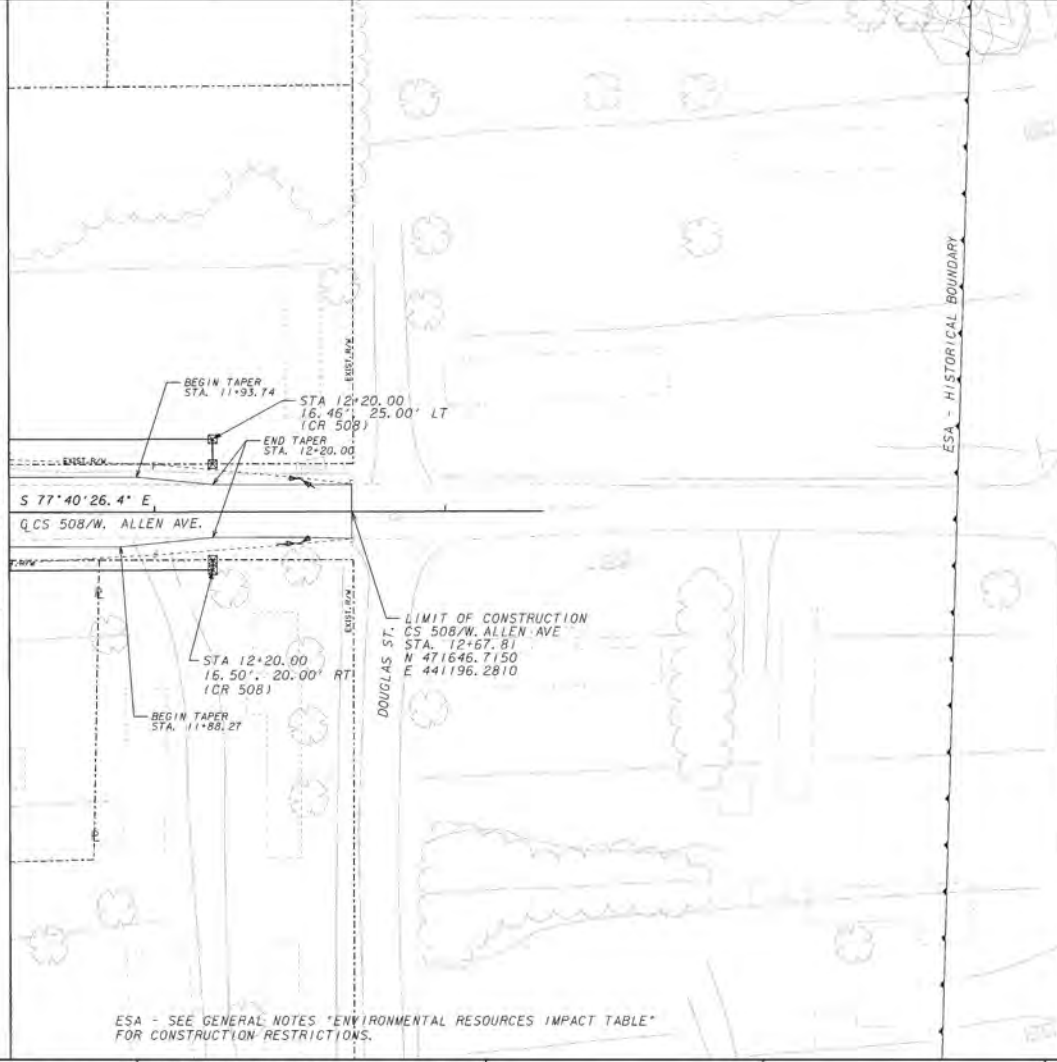
STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: OFFICE OF ROADWAY DESIGN
MAINLINE PLAN

PROJECT: US 441/SR 89/SR 31
 COUNTY: ATKINSON

MATCH LINE STA. 9+00
DRAWING NUMBER 13-17



MATCH LINE STA. 11+50
DRAWING NUMBER 13-017



ESA - SEE GENERAL NOTES 'ENVIRONMENTAL RESOURCES IMPACT TABLE' FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE	-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	-----
REQ'D R/W & LIMIT OF ACCESS	-----
ORANGE BARRIER FENCE	-----
ENVIRONMENTALLY SENSITIVE AREA	-----

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

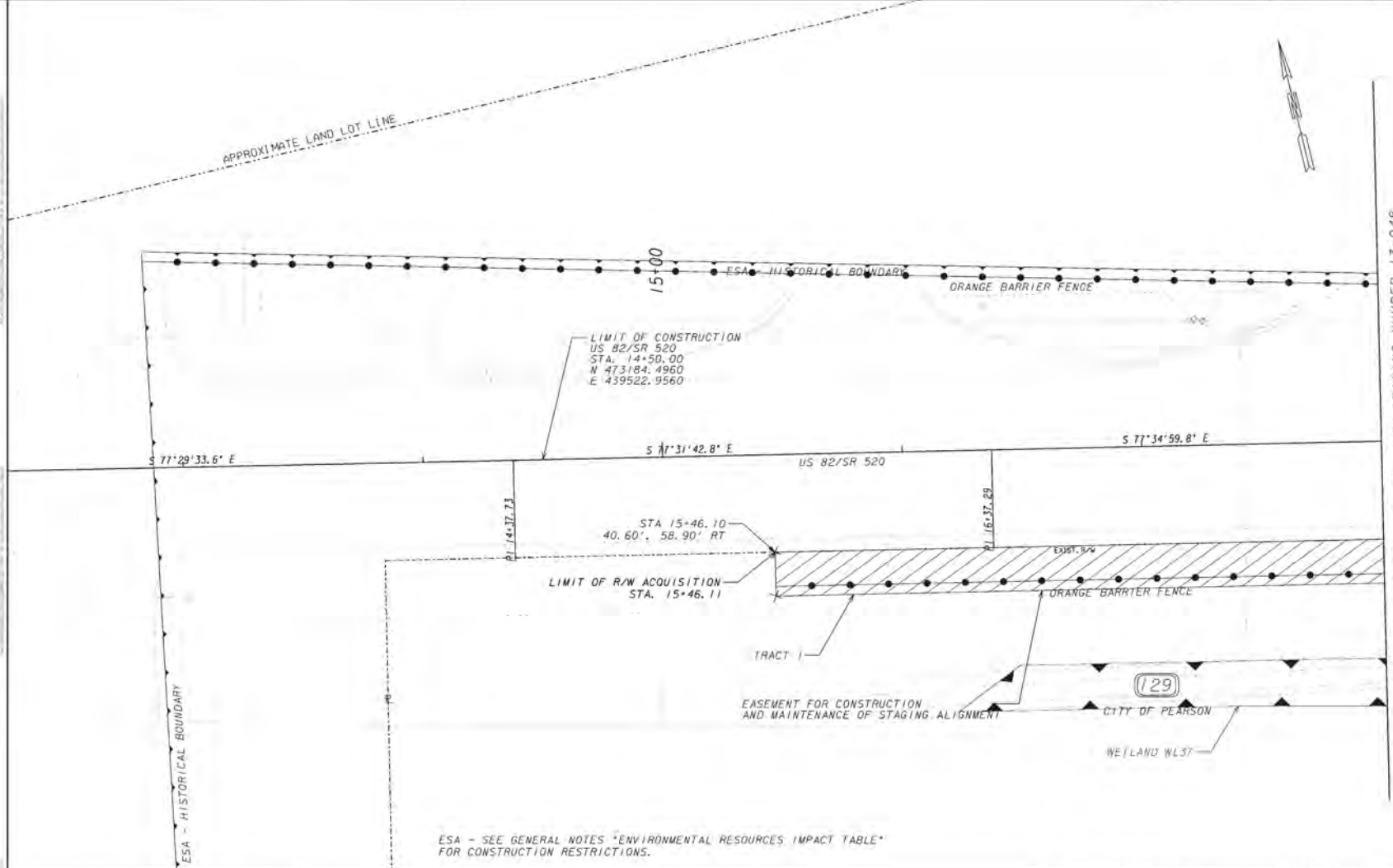


REVISION DATES	

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: OFFICE OF ROADWAY DESIGN
MAINLINE PLAN

PROJECT: US 441/SR 89/SR 31
COUNTY: ATKINSON

SHEET NO. **13-046**



ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ENVIRONMENTALLY SENSITIVE AREA

GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION



REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: OFFICE OF ROADWAY DESIGN

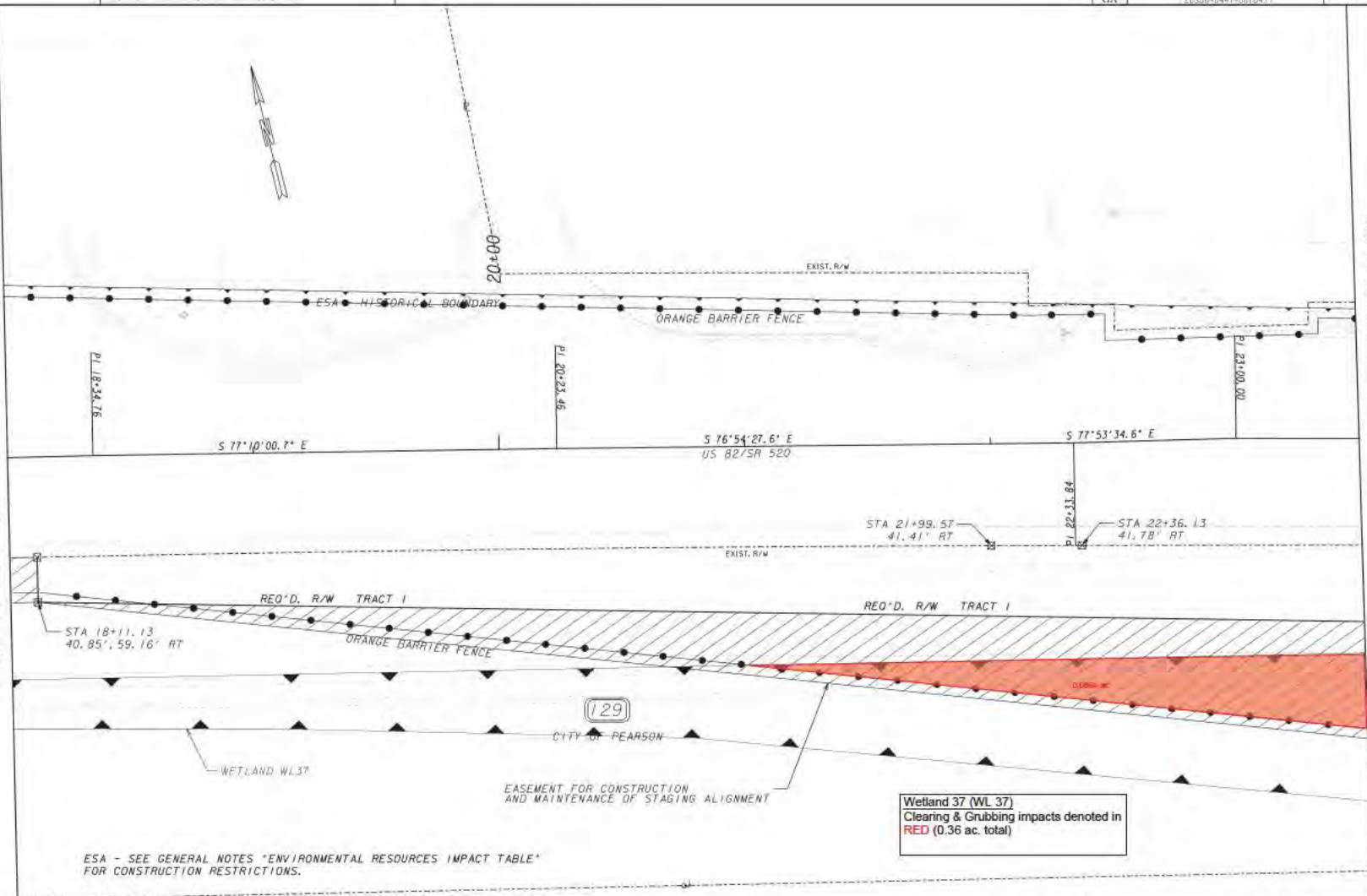
MAINLINE PLAN

PROJECT: US 441/SR 89/SR 31
 COUNTY: ATKINSON

13-047

MATCH LINE STA. 18+00 SEE DRAWING NUMBER 13-047

MATCH LINE STA. 23+50 SEE DRAWING NUMBER 13-049



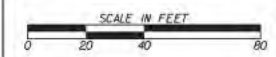
ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

Wetland 37 (WL 37)
 Clearing & Grubbing impacts denoted in RED (0.36 ac. total)

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ENVIRONMENTALLY SENSITIVE AREA

GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION



REVISION DATES

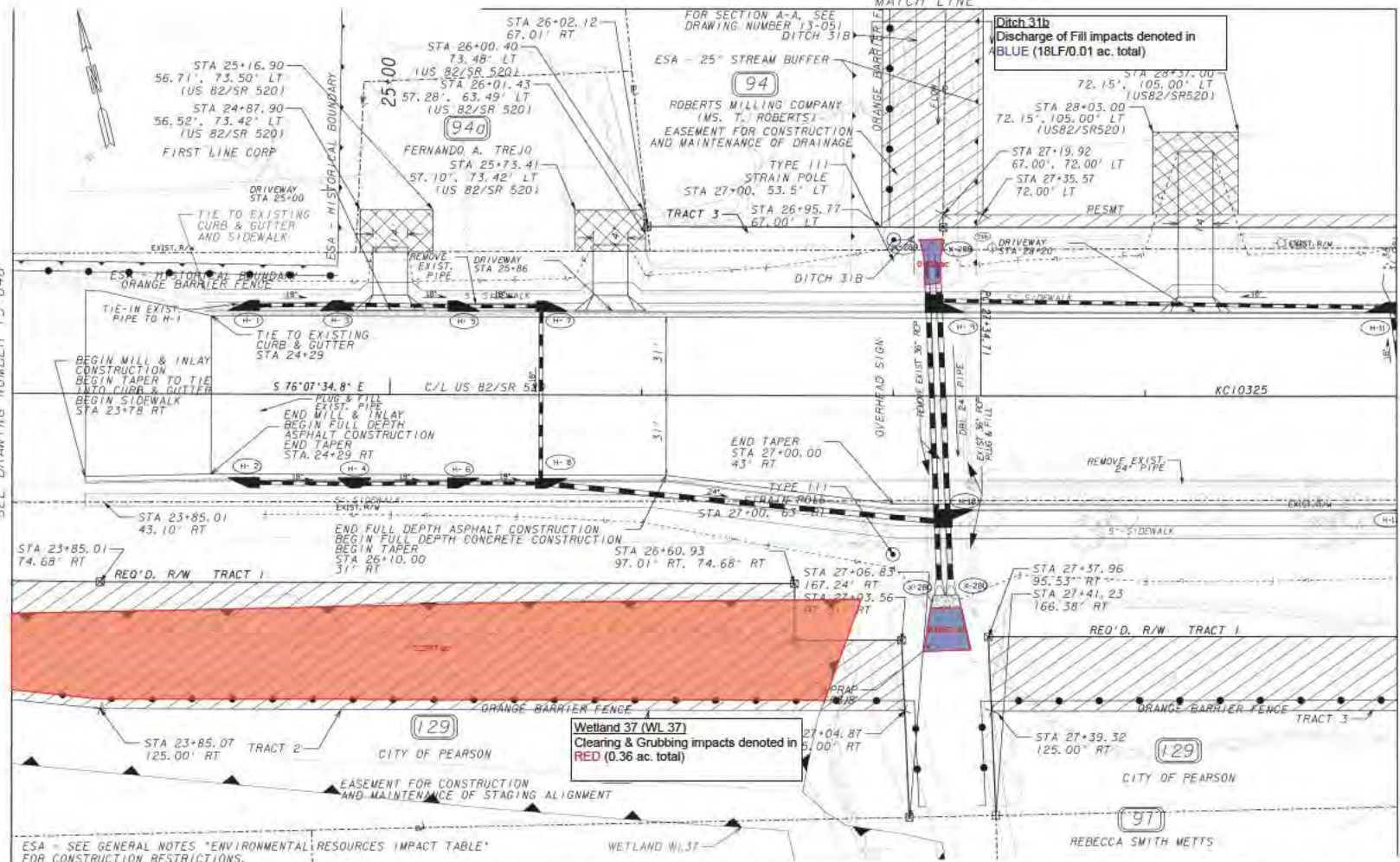
STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: OFFICE OF ROADWAY DESIGN
MAINLINE PLAN
 PROJECT: US 441/SR 89/SR 31
 COUNTY: ATKINSON

13-048

SEE DRAWING NUMBER 13-051
MATCH LINE

MATCH LINE STA. 23+50
SEE DRAWING NUMBER 13-048

MATCH LINE STA. 29+00
SEE DRAWING NUMBER 13-020



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ENVIRONMENTALLY SENSITIVE AREA

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

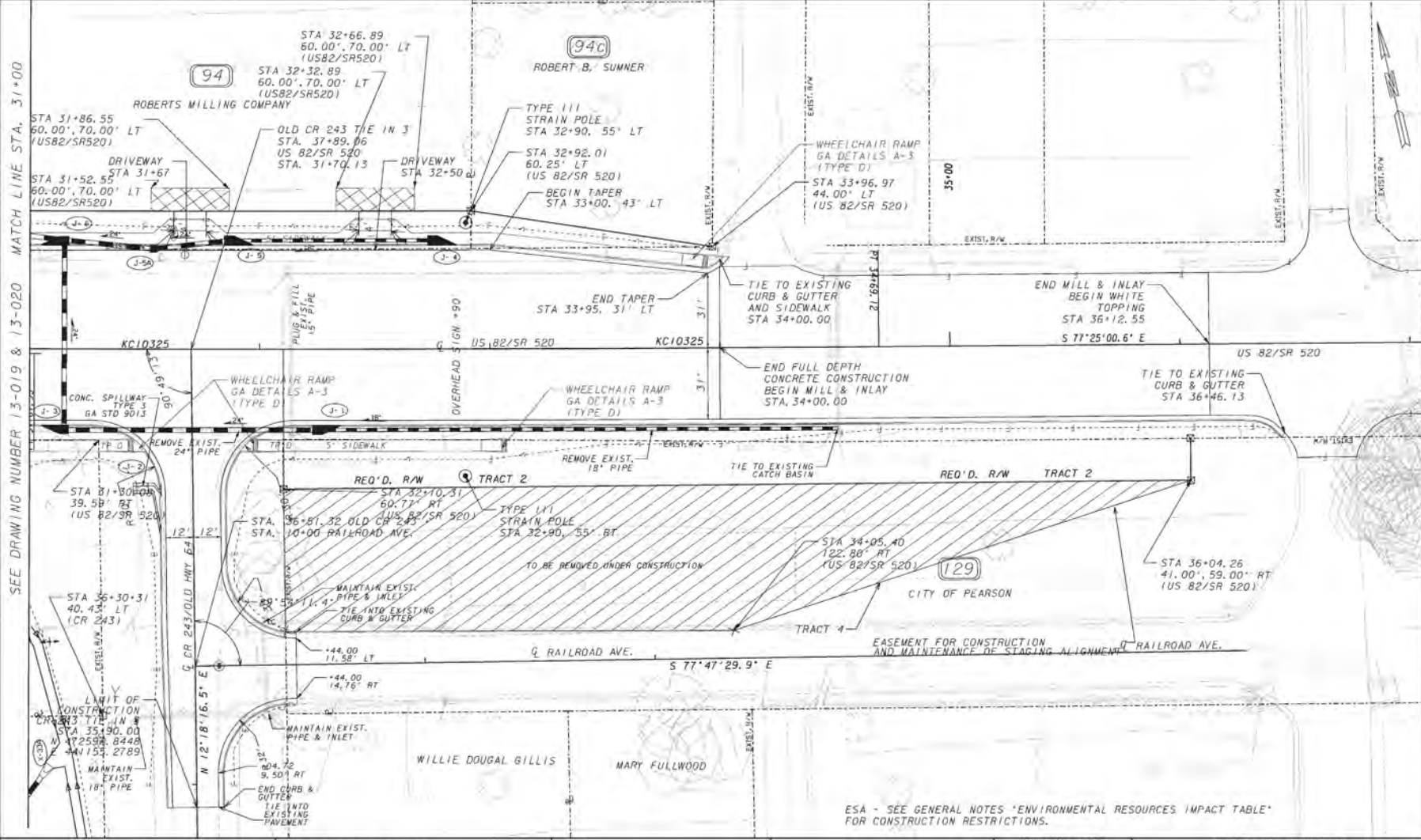


REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: OFFICE OF ROADWAY DESIGN
MAINLINE PLAN

PROJECT: US 441/SR 89/SR 31
COUNTY: ATKINSON

SEE DRAWING NUMBER 13-019 & 13-020 MATCH LINE STA. 31+00



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

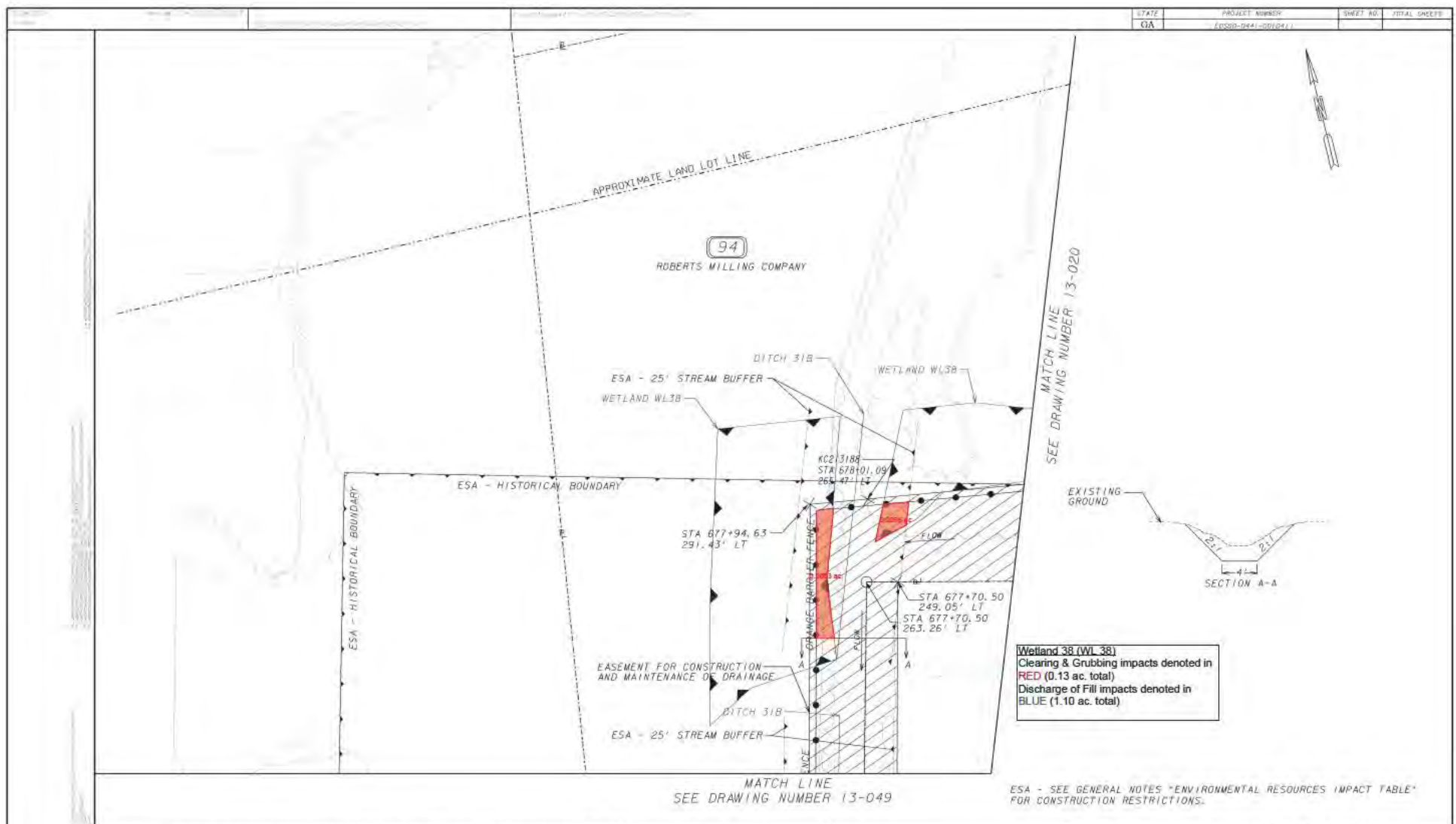
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ENVIRONMENTALLY SENSITIVE AREA

GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION



REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: OFFICE OF ROADWAY DESIGN
MAINLINE PLAN
 PROJECT: US 441/SR 89/SR 31
 COUNTY: ATKINSON

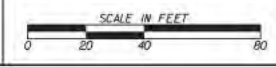


MATCH LINE
SEE DRAWING NUMBER 13-049

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	
END LIMIT OF ACCESS.....ELA	
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	
ENVIRONMENTALLY SENSITIVE AREA	

GEORGIA
DEPARTMENT
OF
TRANSPORTATION



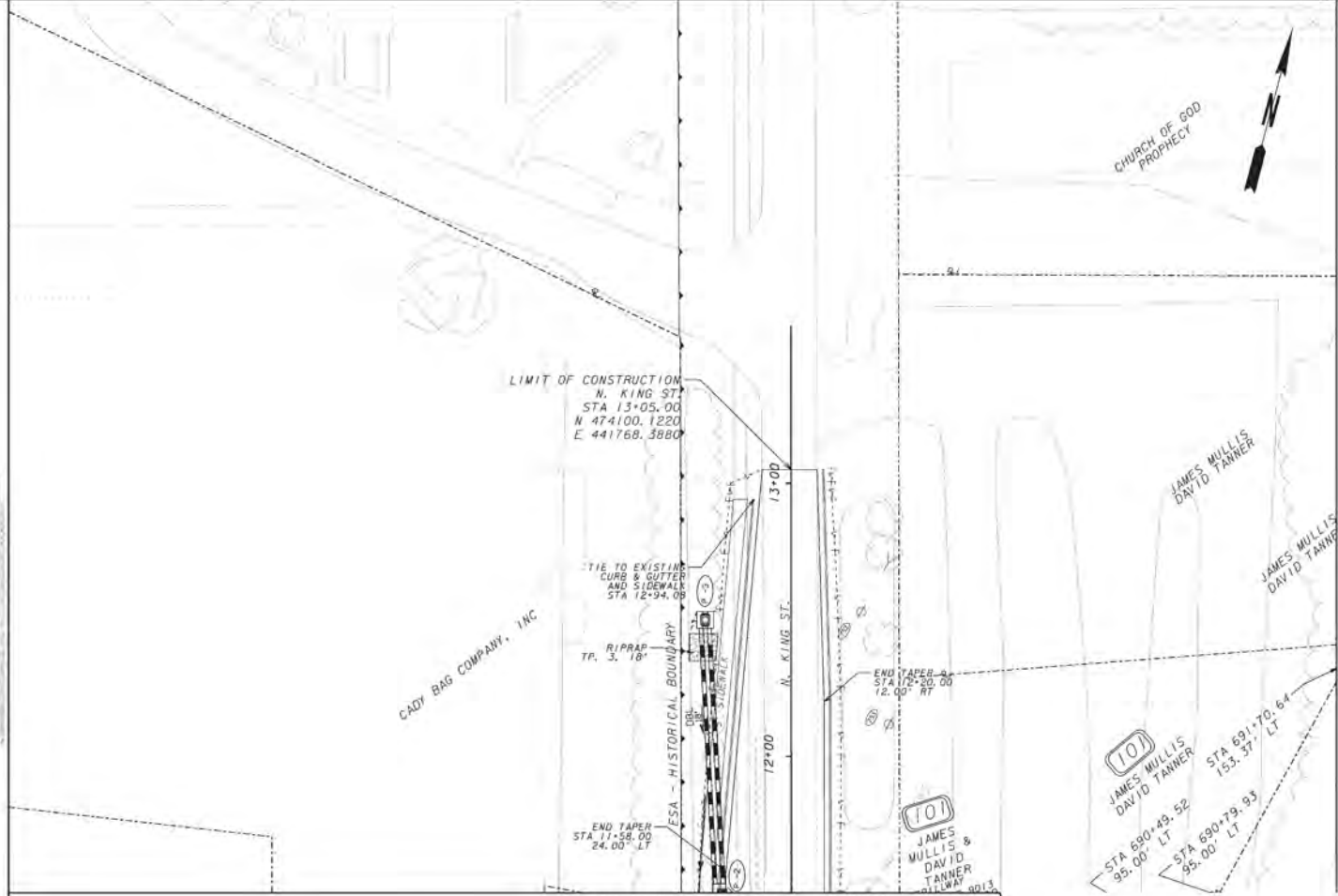
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: OFFICE OF ROADWAY DESIGN

MAINLINE PLAN

PROJECT: US 441/SR 89/SR 31
COUNTY: ATKINSON

13-051



MATCH LINE STA. 11+50 DRAWING 13-022

ESA - SEE GENERAL NOTES "ENVIRONMENTAL RESOURCES IMPACT TABLE" FOR CONSTRUCTION RESTRICTIONS.

PROPERTY AND EXISTING R/W LINE	-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

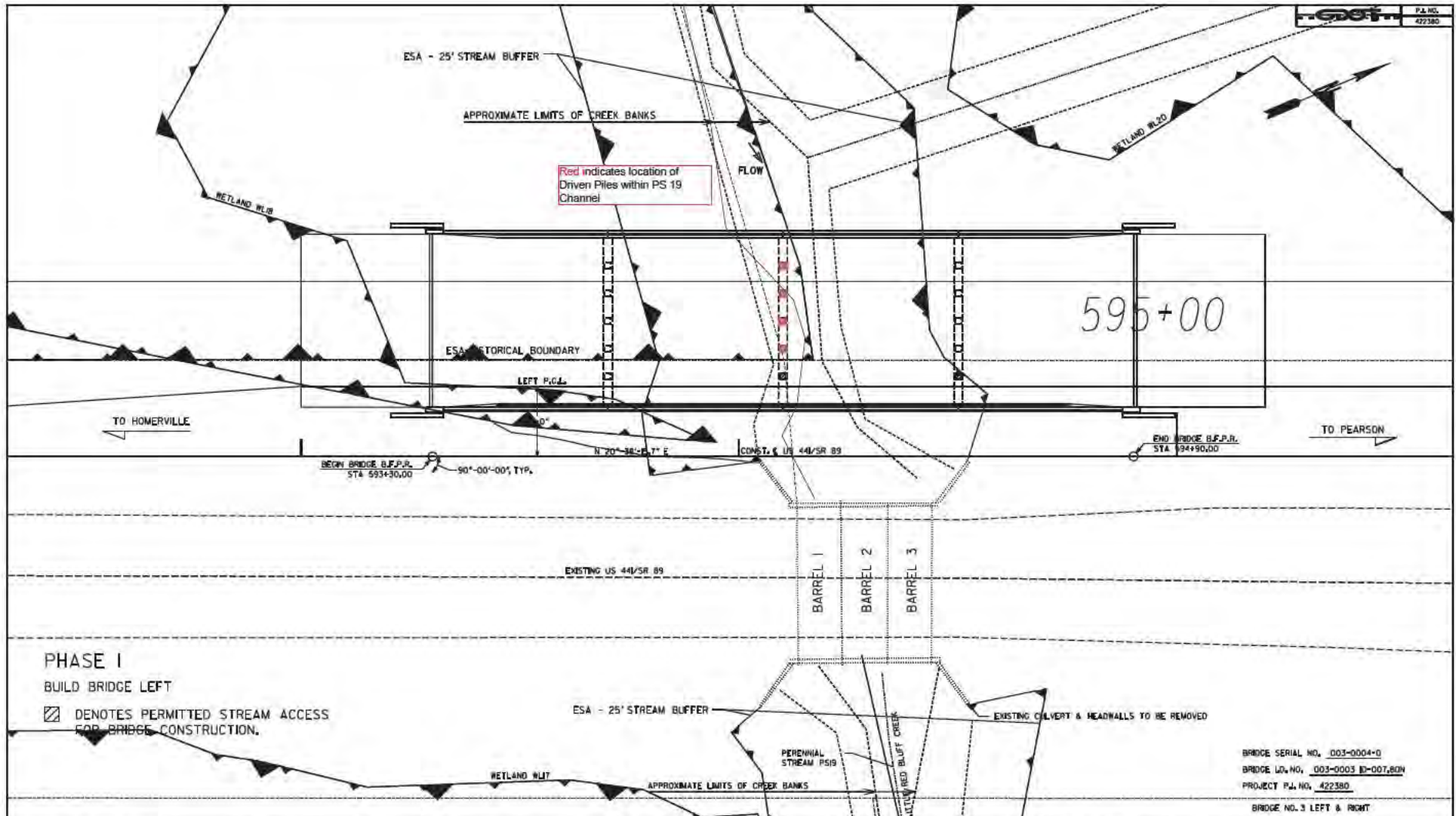
BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	-----
REQ'D R/W & LIMIT OF ACCESS	-----
ORANGE BARRIER FENCE	-----
ENVIRONMENTALLY SENSITIVE AREA	-----

GEORGIA
DEPARTMENT
OF
TRANSPORTATION



REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
MAINLINE PLAN
PROJECT: US 441/SR 89/SR 31



Red indicates location of Driven Piles within PS 19 Channel

PHASE I

BUILD BRIDGE LEFT

☒ DENOTES PERMITTED STREAM ACCESS FOR BRIDGE CONSTRUCTION.

BRIDGE SERIAL NO. 003-0004-D
 BRIDGE LG. NO. 003-0003 B-007,80N
 PROJECT P.L. NO. 422380
 BRIDGE NO. 3 LEFT & RIGHT

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---

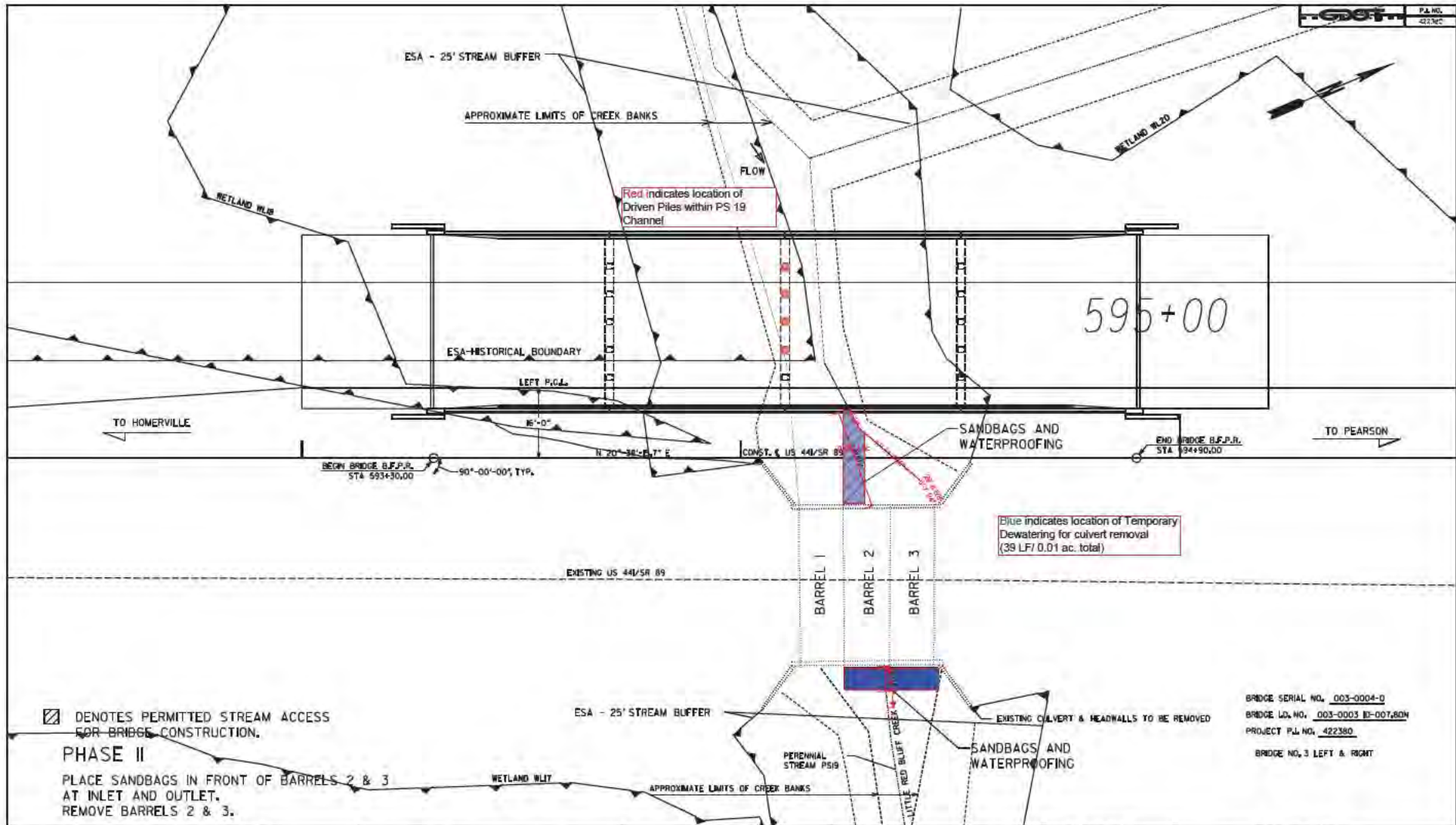


GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: ROADWAY DESIGN
PERMITTED ACCESS FOR BRIDGE CONSTRUCTION
 OVER LITTLE RED BLUFF CREEK
 COUNTY: ATKINSON

DRAWING NO. 20-0001



Blue indicates location of Temporary Dewatering for culvert removal (39 LF/ 0.01 ac. total)

Red indicates location of Driven Piles within PS 19 Channel

BRIDGE SERIAL NO. 003-0004-0
 BRIDGE LOG NO. 003-0003 83-007,808
 PROJECT P.L. NO. 422380
 BRIDGE NO. 3 LEFT & RIGHT

☐ DENOTES PERMITTED STREAM ACCESS FOR BRIDGE CONSTRUCTION.

PHASE II
 PLACE SANDBAGS IN FRONT OF BARRELS 2 & 3 AT INLET AND OUTLET.
 REMOVE BARRELS 2 & 3.

PROPERTY AND EXISTING R/W LINE	-----E-----
REQUIRED R/W LINE	-----G-----
CONSTRUCTION LIMITS	-----F-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Cross-hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Diagonal-hatched Box]

BEGIN LIMIT OF ACCESS.....BLA	=====
END LIMIT OF ACCESS.....ELA	=====
LIMIT OF ACCESS	=====
REQ'D R/W & LIMIT OF ACCESS	=====
ORANGE BARRIER FENCE	=====
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	=====

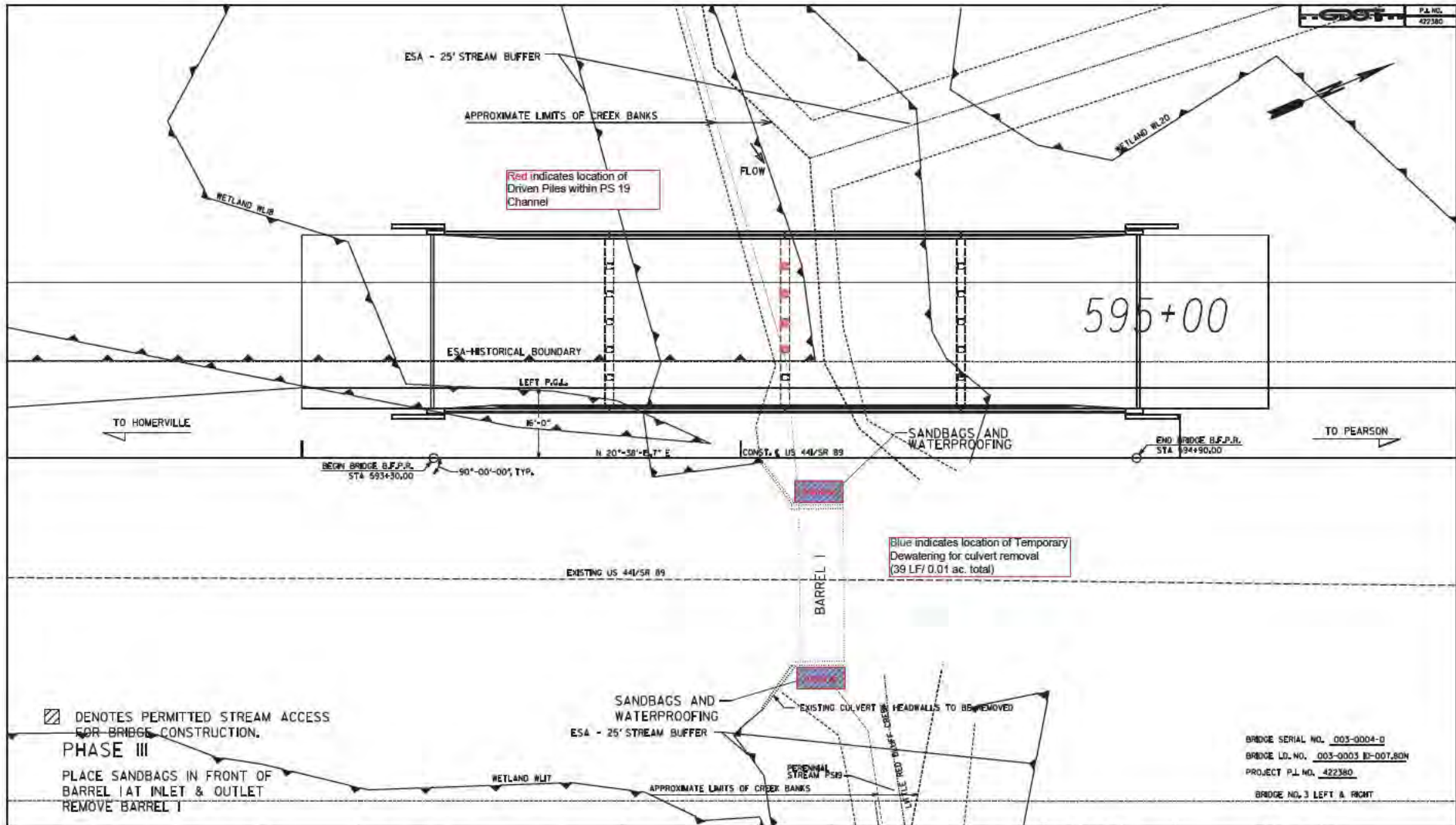


GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: ROADWAY DESIGN
PERMITTED ACCESS FOR BRIDGE CONSTRUCTION
 US 441/SR 89
 OVER LITTLE RED BLUFF CREEK
 COUNTY: ATKINSON

DRAWING NO. 20-0002



☒ DENOTES PERMITTED STREAM ACCESS FOR BRIDGE CONSTRUCTION.
PHASE III
 PLACE SANDBAGS IN FRONT OF BARREL AT INLET & OUTLET
 REMOVE BARREL 1

BRIDGE SERIAL NO. 003-0004-D
 BRIDGE LD. NO. 003-0003 B-007,80W
 PROJECT P.L. NO. 422380
 BRIDGE NO. 3 LEFT A RIGHT

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---

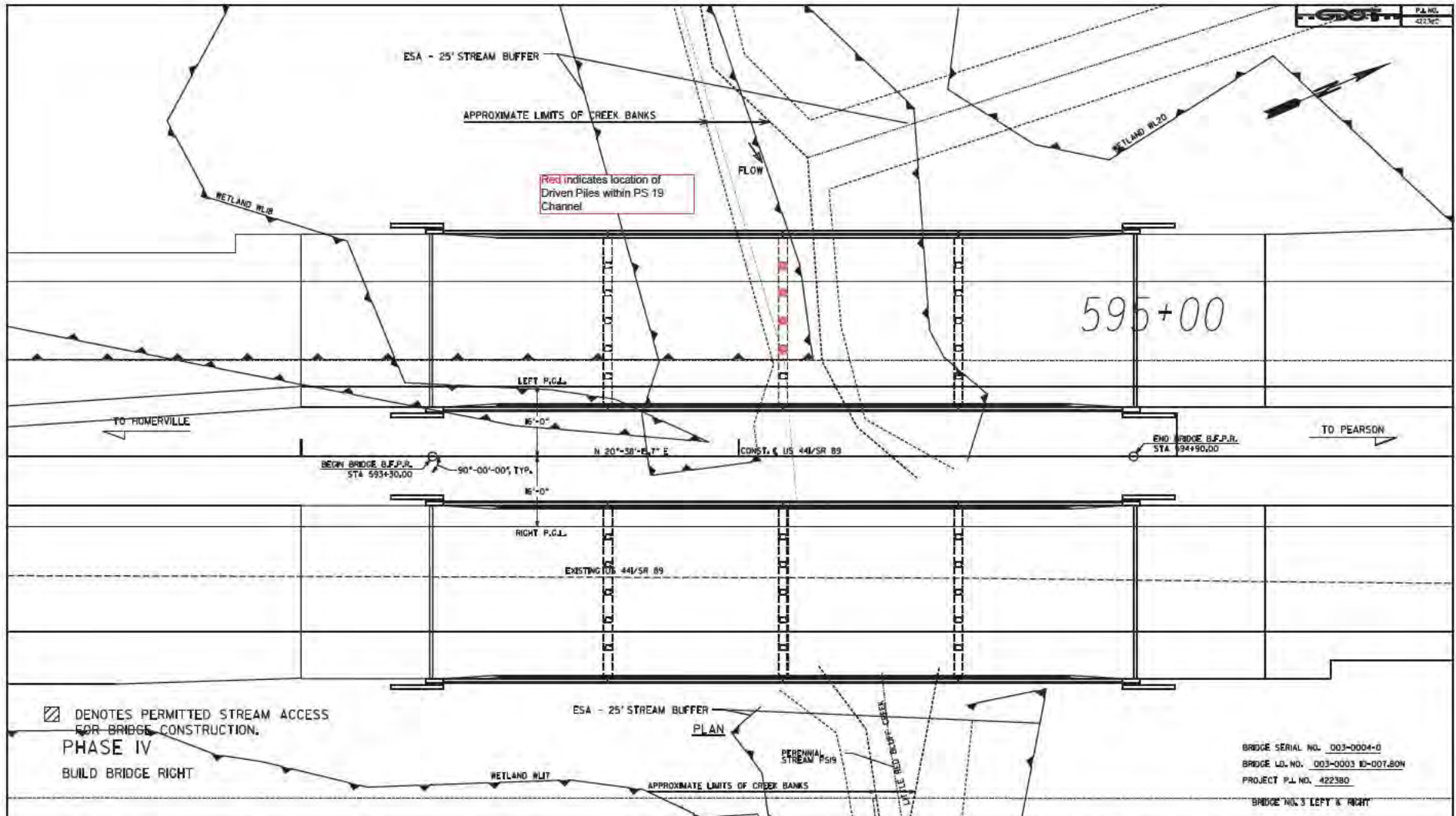


GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: ROADWAY DESIGN
PERMITTED ACCESS FOR BRIDGE CONSTRUCTION
 US 441/SR 89
 OVER LITTLE RED BLUFF CREEK
 COUNTY: ATKINSON

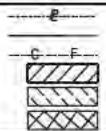
DRAWING NO. 20-0003



☒ DENOTES PERMITTED STREAM ACCESS FOR BRIDGE CONSTRUCTION.
PHASE IV
 BUILD BRIDGE RIGHT

BRIDGE SERIAL NO. 003-0004-0
 BRIDGE LD. NO. 003-0003 B-001,80N
 PROJECT P.L. NO. 422380
 BRIDGE NO. 3 LEFT & RIGHT

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

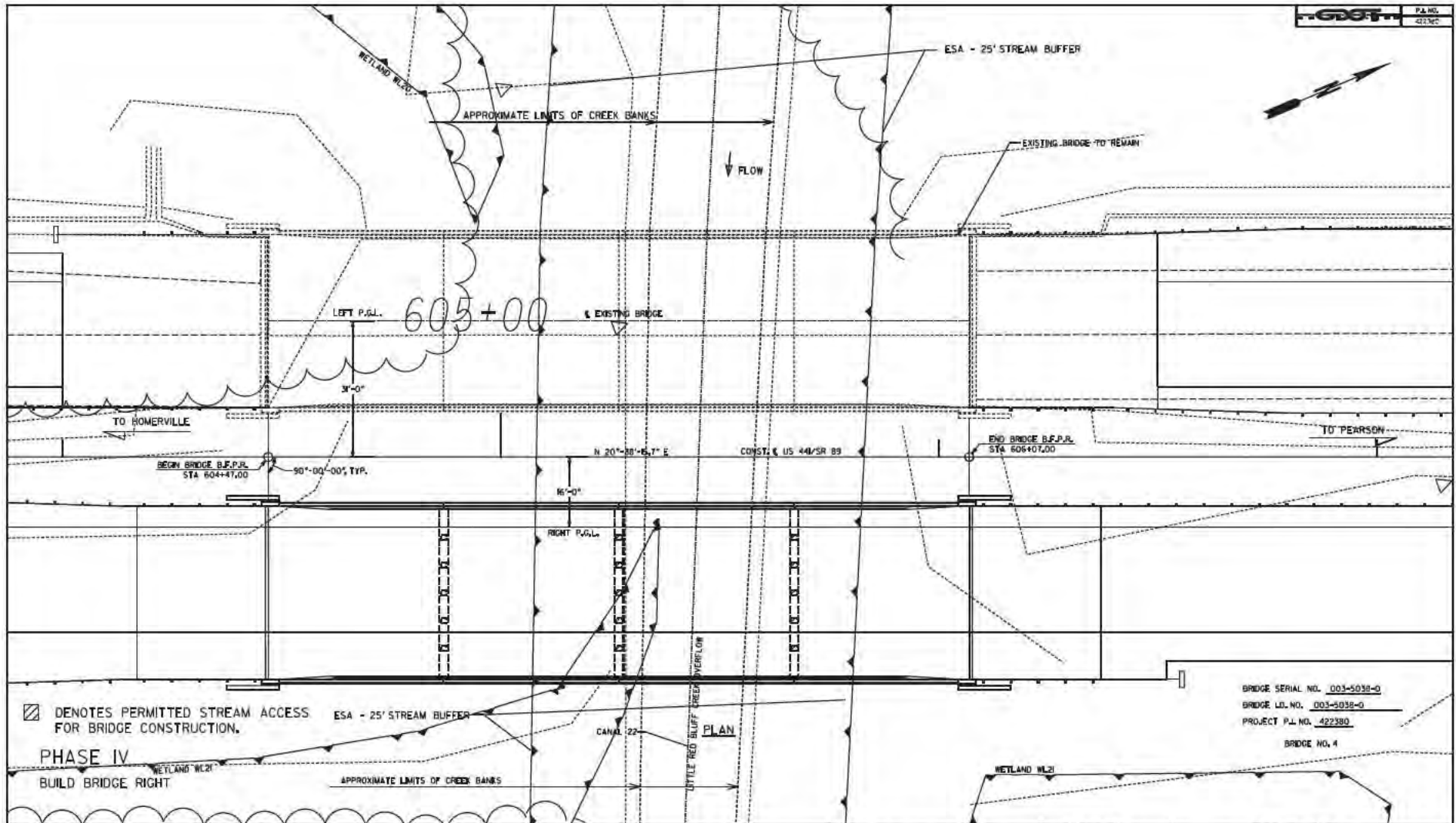


GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: ROADWAY DESIGN
PERMITTED ACCESS FOR BRIDGE CONSTRUCTION
 US 441/SR 89
 OVER LITTLE RED BLUFF CREEK
 COUNTY: ATKINSON

DRAWING NO. 20-0004



☒ DENOTES PERMITTED STREAM ACCESS FOR BRIDGE CONSTRUCTION.

PHASE IV
BUILD BRIDGE RIGHT

BRIDGE SERIAL NO. 003-5038-0
BRIDGE I.D. NO. 003-5038-0
PROJECT P.L. NO. 422380
BRIDGE NO. 4

PROPERTY AND EXISTING R/W LINE	— E —
REQUIRED R/W LINE	— G —
CONSTRUCTION LIMITS	— F —
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Cross-hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Diagonal-hatched Box]

BEGIN LIMIT OF ACCESS.....BLA	—
END LIMIT OF ACCESS.....ELA	—
LIMIT OF ACCESS	—
REQ'D R/W & LIMIT OF ACCESS	—
ORANGE BARRIER FENCE	—
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	—



GEORGIA
DEPARTMENT
OF
TRANSPORTATION


REVISION	DATE

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROADWAY DESIGN
PERMITTED ACCESS FOR BRIDGE CONSTRUCTION
US 441/SR 89
OVER LITTLE RED BLUFF CREEK
COUNTY: ATKINSON

DRAWING NO. 20-0005

- 1

M1-4
- 2

M1-4
- 3

W20-2
- 4

W20-2
- 5

W20-2
- 6

W20-3
- 7

W20-3
- 8

W20-3
- 9

M4-8A
- 10



R11-2
- 11

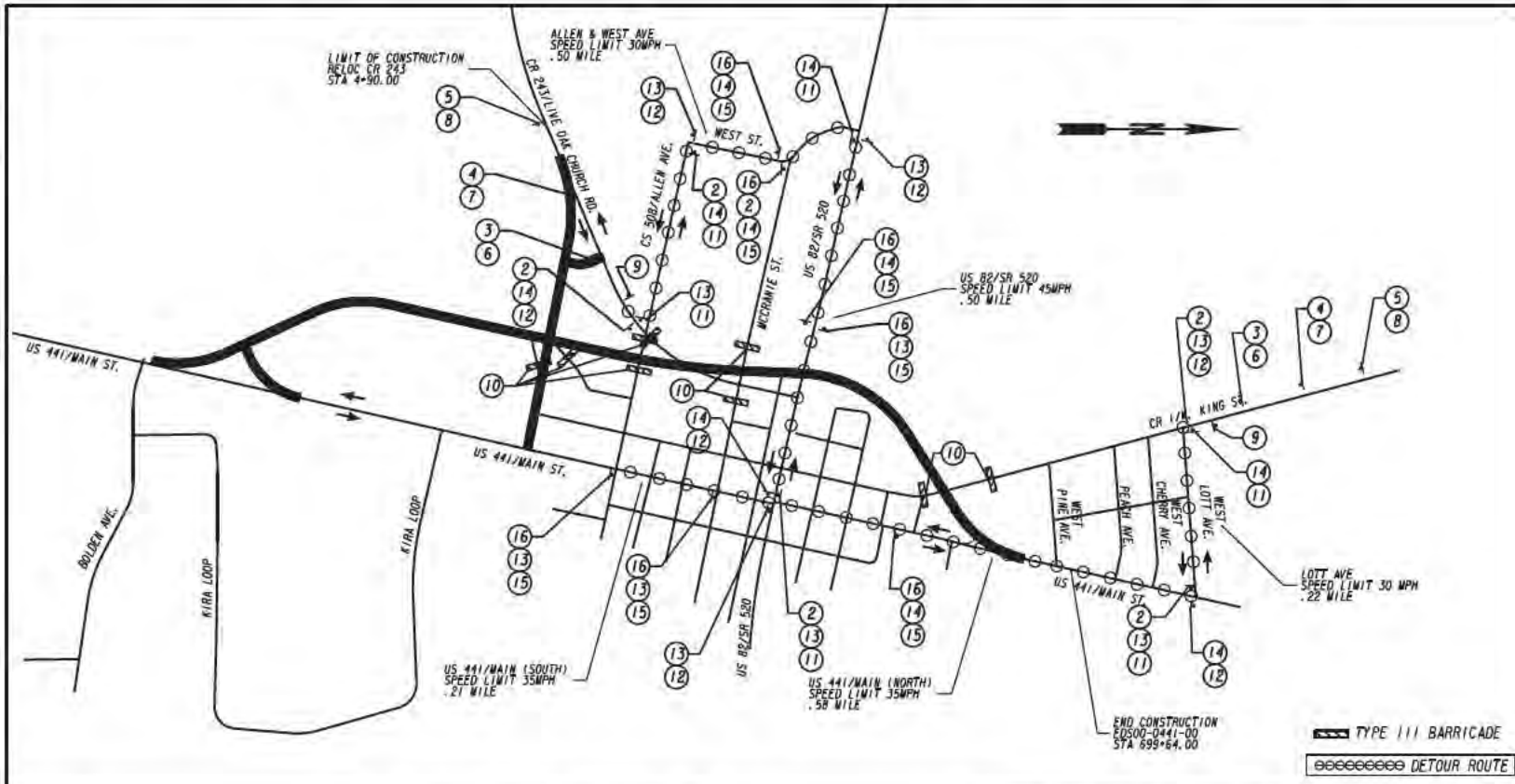
M4-9 RT
- 12

M4-9 LT
- 13

D3-1
- 14

D3-1

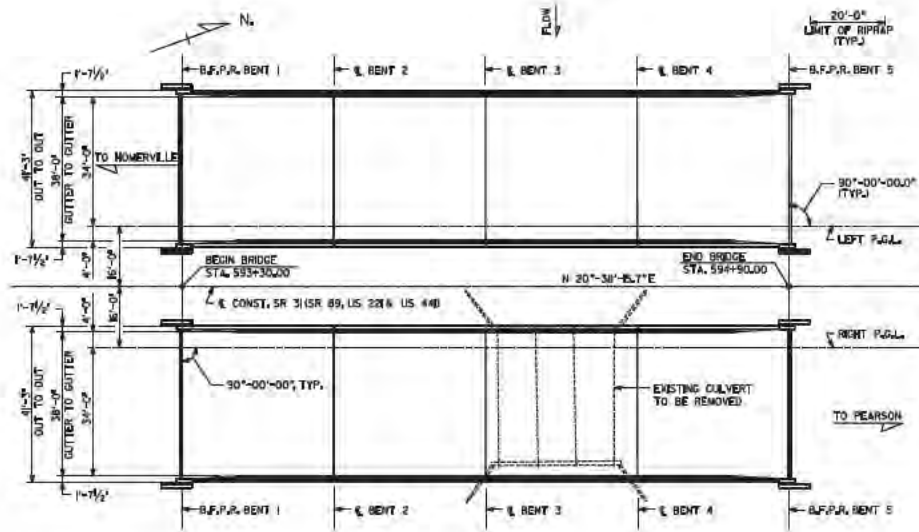
- 15

M6-3
- 16

M4-8



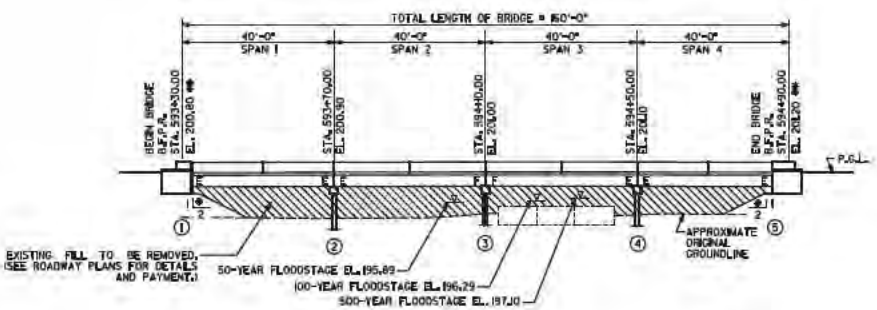
REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: ROADWAY DESIGN
STAGING DETAILS
 STAGE 1 DETOUR PLAN
 PROJECT: US 441/SR 89/SR 31
 COUNTY: ATKINSON

DRAWING NO. 20-0006

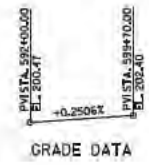


PLAN



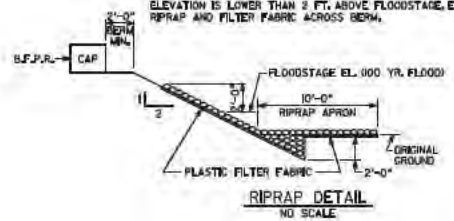
ELEVATION
RIGHT BRIDGE SHOWN

- NOTES:
- 1. END BENT PILES NOT SHOWN.
 - 2. ALL BENTS ARE PARALLEL.
 - 3. SLOPE NORMAL TO END BENT.
 - 4. STATION AND ELEVATION ARE ALONG PROFILE GRADE LINE AT THE INTERSECTION OF PROFILE GRADE LINE AND B.F.P.R. OR C BENT.



GRADE DATA

PLACE RIPRAP AND FILTER FABRIC FROM 2 FT. BELOW ORIGINAL GROUND TO 2 FT. ABOVE FLOODSTAGE ELEVATION. EXTEND RIPRAP AND FILTER FABRIC 20 FT. BEYOND END OF SHOULDER UNLESS OTHERWISE NOTED. WHERE BERM ELEVATION IS LOWER THAN 2 FT. ABOVE FLOODSTAGE, EXTEND RIPRAP AND FILTER FABRIC ACROSS BERM.



RIPRAP DETAIL
NO SCALE

EXISTING BRIDGE SERIAL NO. 003-0004-0
 EXISTING BRIDGE ID NO. 003-000310-007, BDM
 PROJECT PI NO. 422380-

BRIDGE NO. 1 LEFT & RIGHT

GEORGIA
 DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

PLAN AND ELEVATION
 SR 31 (SR 89, US221 AND US 44) OVER
 LITTLE RED BLUFF CREEK OVERFLOW
 ATKINSON COUNTY EDS00-0441-001(41)

DRAWING NO. 35-0008	DATE 03-18-2019	SCALE 1/4" = 1'-0" (UNLESS OTHERWISE NOTED) MARCH 2019
BRIDGE SHEET 1 OF 10	DESIGNER JMM	CHECKED JMM
	DATE 03-18-2019	SCALE 1/4" = 1'-0" (UNLESS OTHERWISE NOTED) MARCH 2019

LEFT BRIDGE CONSISTS OF

- 4 - 40'-0" REINFORCED CONCRETE DECK GIRDER SPANS ----- SPECIAL DESIGN
- 2 - PSC PILE END BENTS ----- SPECIAL DESIGN
- 3 - PSC PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)
(L = 4'-0"; W = 1'-1"; H = 2'-8")
- SQUARE PRESTRESSED CONCRETE PILES ----- GA. STD. 3215 (2-22-84)
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-93)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

RIGHT BRIDGE CONSISTS OF

- 4 - 40'-0" REINFORCED CONCRETE DECK GIRDER SPANS ----- SPECIAL DESIGN
- 2 - PSC PILE END BENTS ----- SPECIAL DESIGN
- 3 - PSC PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)
(L = 4'-0"; W = 1'-1"; H = 2'-8")
- SQUARE PRESTRESSED CONCRETE PILES ----- GA. STD. 3215 (2-22-84)
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-93)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

DRAINAGE DATA

DRAINAGE AREA ----- 24.7 SQ MILES					
FLOOD FREQUENCY	TOTAL DISCHARGE	DISCHARGE THRU BRIDGE	MEAN VELOCITY	AREA OF OPENING BELOW FLOODSTAGE	BACKWATER
50 YEAR	2128 CFS	1090 CFS	2.10 FPS	520 SQ FT	0.93 FT
100 YEAR	2537 CFS	1322 CFS	2.31 FPS	573 SQ FT	0.99 FT
500 YEAR	3594 CFS	1656 CFS	2.66 FPS	697 SQ FT	0.99 FT

TRAFFIC DATA

TRAFFIC -----	ADT = 4,700 (2021)
	ADT = 5,400 (2041)
DESIGN SPEED -----	65/45 MPH
TRUCKS -----	15.75 %
24 HR TRUCKS -----	17 %
DIRECTIONAL -----	46/54 %

UTILITIES

NO UTILITIES ON BRIDGE

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2018 EDITION, AND 2018 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. MAINTAIN 2 INCH MINIMUM CLEARANCE ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

DYNAMIC PILE TESTING - PERFORM PILE TESTING USING THE PILE DRIVING ANALYZER (PDA) IN ACCORDANCE WITH SPECIAL PROVISION SECTION 523. NOTIFY THE GEOTECHNICAL BUREAU OF GEORGIA DOT OFFICE OF MATERIAL AND TESTING AT 404-608-4720 TWO WEEKS PRIOR TO DRIVING PILES. DYNAMIC PILE TESTING SHALL BE REQUIRED FOR EACH TEST PILE.

PILING - JETTING OR SPUDDING OF PSC PILING MAY BE NECESSARY AT THE INTERMEDIATE BENTS AT THIS SITE TO ACHIEVE THE INDICATED PLAN DRIVING OBJECTIVE.

PILE DRIVING - SHOULD PILES FAIL TO OBTAIN DRIVING RESISTANCE AFTER ACHIEVING THE PILE TIP ELEVATIONS SHOWN, ALLOW PILES TO FREEZE A MINIMUM OF 24 HOURS AND RESTRIKE WITH A WARM HAMMER.

BENT NUMBER	PILE TIP ELEVATION
1	147
2	142
3	127
4	142
5	137

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:

- ONE 14 IN SQ PSC X 57 FT AT BENT 1 LEFT BRIDGE
- ONE 16 IN SQ PSC X 78 FT AT BENT 3 RIGHT BRIDGE
- ONE 16 IN SQ PSC X 83 FT AT BENT 4 LEFT BRIDGE
- ONE 14 IN SQ PSC X 98 FT AT BENT 5 RIGHT BRIDGE

1013 DOWEL BARS - CAST 1013 DOWEL BARS IN PLACE OR PLACE DOWELS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES. AT FIXED ENDS, EFFECTIVELY WRAP 1013 DOWEL BARS TO PREVENT BOND WITH BEAM CONCRETE. AT EXPANSION ENDS, FORM 1 1/2" X 3" X 7" DEEP SLOT IN BEAM FOR 1013 DOWEL BARS.

GROOVED CONCRETE - GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.

BOTTOM OF BEAM ELEVATIONS - BOTTOM OF THE BEAMS SHALL NOT BE BELOW ELEVATION 197.29.

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND TESTING. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

BRIDGE REMOVAL - REMOVE EXISTING BRIDGE AS PER SUB-SECTION 540.3.05 OF THE GEORGIA DOT SPECIFICATIONS.

SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DOT.

INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF WATERPROOFING, JOINT FILLERS AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

DESIGN DATA

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002
(DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

TYPICAL MS20-44 AND/OR MILITARY LOADING ----- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

CONCRETE: SUPERSTRUCTURE ----- CLASS AA, $f_c = 3,500$ PSI
BARRIER ----- CLASS AA, $f_c = 3,000$ PSI
SUBSTRUCTURE ----- CLASS A, $f_c = 3,000$ PSI

REINFORCEMENT STEEL ----- GRADE 60, $f_y = 60,000$ PSI

SUMMARY OF QUANTITIES

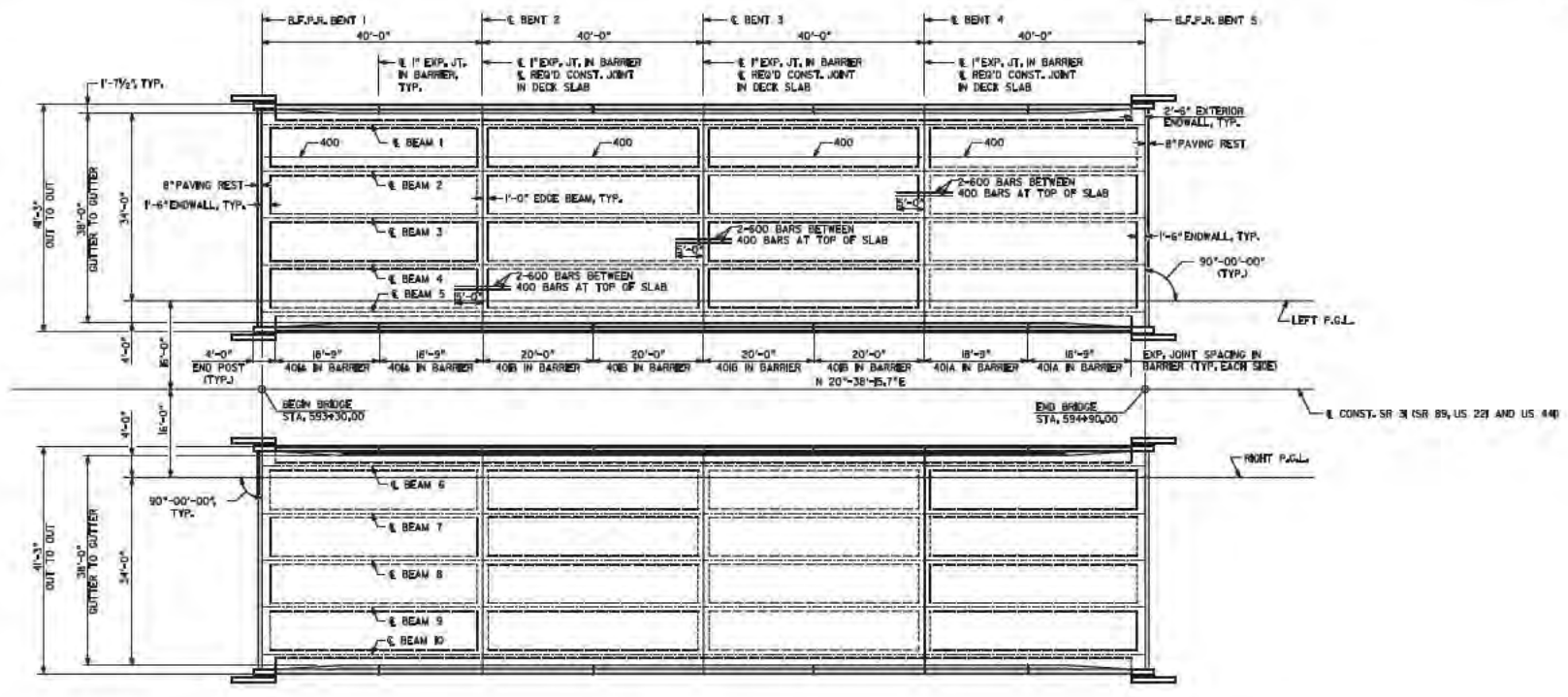
PAY ITEM NUMBER	QUANTITIES		UNIT	PAY ITEM
	LEFT BRIDGE	RIGHT BRIDGE		
500-0100	640	640	SY	GROOVED CONCRETE
500-1006	---	---	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 LT (273)
500-1006	---	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 RT (273)
500-2100	310	310	LF	CONCRETE BARRIER
500-3101	45	45	CY	CLASS A CONCRETE
511-1000	6337	6337	LB	BAR REINF STEEL
511-3000	LUMP	---	LS	SUPERSTR REINF STEEL, BR NO - 1 LT (78409)
511-3000	---	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 RT (78409)
520-2214	515	505	LF	PILING, PSC, 14 IN SQ
520-2218	875	880	LF	PILING, PSC, 16 IN SQ
520-3214	1	1	EA	TEST PILE, PSC, 14 IN SQ
520-3216	1	1	EA	TEST PILE, PSC, 16 IN SQ
520-4214	1	1	EA	LOAD TEST, PSC, 14 IN SQ (IF REQD)
520-4216	1	1	EA	LOAD TEST, PSC, 16 IN SQ (IF REQD)
523-1100	2	2	EA	DYNAMIC PILE TEST
540-1101	---	LUMP	LS	REMOVAL OF EXISTING BR, STA NO, 694+12
603-2024	544	544	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	544	544	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1 LEFT & RIGHT

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

GENERAL NOTES
SR 31 (SR 89, US22) AND US 44) OVER
LITTLE RED BLUFF CREEK OVERFLOW
ATKINSON COUNTY EDS00-044-001(041)

DRAWING NO. 35-0002	DATE: 03/20/2019	NO SCALE	MARCH 2019
BRIDGE SHEET 2 OF 12	DESIGN: CAY	DRWG: RSC	SCALE: 1"=10'
	CHECK: BM	DATE: 03/20/2019	APPR: PLS

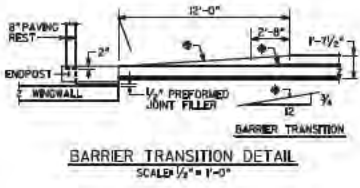


DECK PLAN

SUPERSTRUCTURE QUANTITIES - LEFT BRIDGE					
ITEM	SPAN 1	SPAN 2	SPAN 3	SPAN 4	TOTAL
LUMP - CY SUPERSTR CONCRETE, CLASS AA	70.8	65.7	65.7	70.9	273.2
LUMP - LB SUPERSTR REINF STEEL	1992	19562	20463	1992	76409

SUPERSTRUCTURE QUANTITIES - RIGHT BRIDGE					
ITEM	SPAN 1	SPAN 2	SPAN 3	SPAN 4	TOTAL
LUMP - CY SUPERSTR CONCRETE, CLASS AA	70.8	65.7	65.7	70.9	273.2
LUMP - LB SUPERSTR REINF STEEL	1992	19562	20463	1992	76409

END POST CONCRETE AND BAR REINFORCEMENT STEEL INCLUDED IN SPANS 1 & 4 QUANTITIES.
 REINFORCING QUANTITIES FOR BARS 600 INCLUDED IN SPANS 2 & 3 QUANTITIES.



BARRIER TRANSITION DETAIL
 SCALE 1/2" = 1'-0"

BRIDGE NO. 1 LEFT & RIGHT

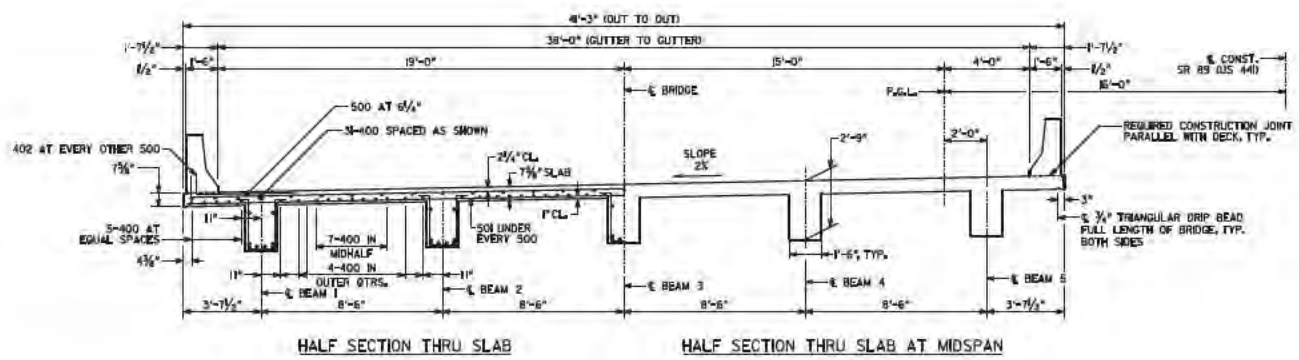
GEORGIA
 DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

DECK PLAN
 SR 31 (SR 89, US 221 AND US 44) OVER
 LITTLE RED BLUFF CREEK OVERFLOW
 ATKINSON COUNTY EDS00-0441-001(041)

SCALE 1" = 10'-0" (UNLESS OTHERWISE NOTED) MARCH 2019

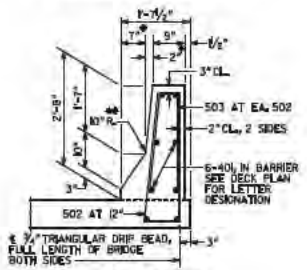
DRAWING NO.	35-0003	DATE	3/19/19
BRIDGE SHEET	3 OF 10	BY	RESOURCES
DESIGNED BY		CHECKED BY	
DRAWN BY		DATE	

1 INCH WHEN PRINTED FULL SIZE

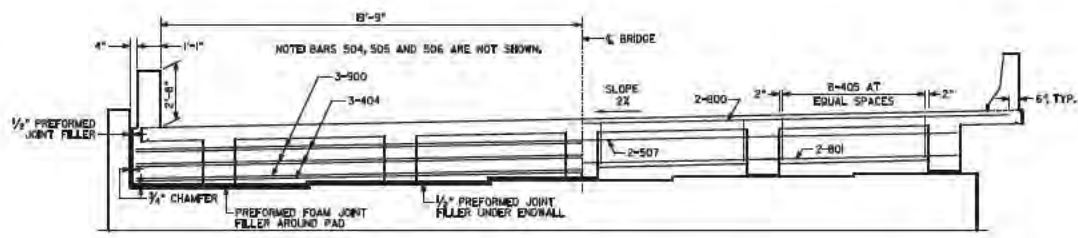


HALF SECTION THRU SLAB
HALF SECTION THRU SLAB AT MIDSPAN

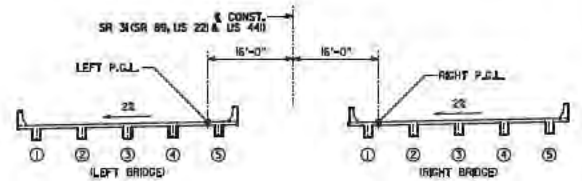
* TAPERS TO 0" AT END POST
 ** AT CONTRACTOR'S OPTION, 10" RADIUS MAY BE REPLACED BY STRAIGHT INTERSECTING SLOPES.



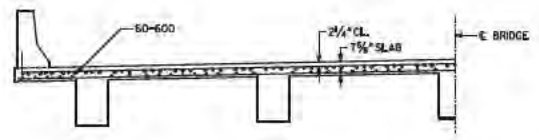
BARRIER DETAIL
 SCALE 3/4" = 1'-0"



HALF SECTION THRU ENDWALL
 HALF SECTION THRU EDGE BEAM



CROSS SECTION
 LOOKING AHEAD
 NO SCALE



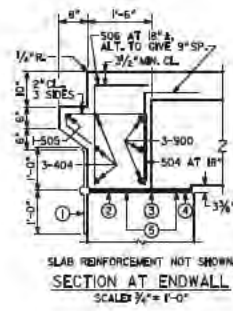
HALF SECTION THRU SLAB AT INTERMEDIATE BENT

NOTES:
 1 LEFT BRIDGE SHOWN, RIGHT BRIDGE SIMILAR.

BRIDGE NO. 1 LEFT & RIGHT
 GEORGIA
 DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES
 DECK SECTIONS
 SR 31 (SR 89, US 221 AND US 44) OVER
 LITTLE RED BLUFF CREEK OVERFLOW
 ATKINSON COUNTY EDS00-0441-001(041)

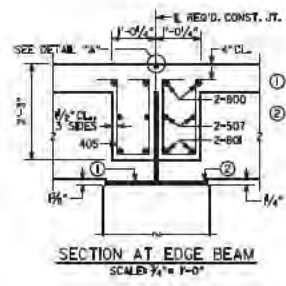
DRAWING NO. 35-0004	SCALE 3/8" = 1'-0" (UNLESS OTHERWISE NOTED) MARCH 2019
BRIDGE SHEET 4 OF 12	DESIGN: GAY CHECK: BM
	DESIGN: RESC CHECK: BRW, BMS
	DESIGN: WELTING CHECK: PLS

1 INCH WHEN PRINTED FULL SIZE



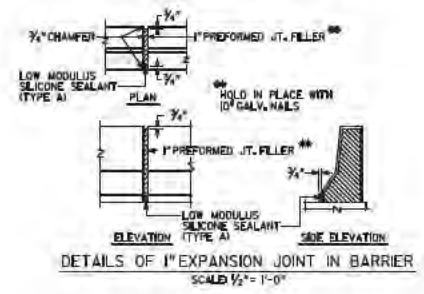
- ① WATERPROOFING, SEE SECTION 530 OF THE GEORGIA DOT SPECIFICATIONS.
- ② 1/2" PREFORMED JOINT FILLER UNDER ENDWALL AND BEAM.
- ③ NEOPRENE BEARING PAD, TYP.
- ④ 1/2" PREFORMED JOINT FILLER UNDER BEAM.
- ⑤ PREFORMED FOAM JOINT FILLER

SLAB REINFORCEMENT NOT SHOWN
SECTION AT ENDWALL
SCALE 3/4" = 1'-0"



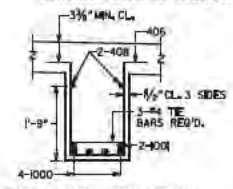
- ① NEOPRENE BEARING PAD, TYP.
- ② 1/2" PREFORMED JOINT FILLER.

SECTION AT EDGE BEAM
SCALE 3/4" = 1'-0"

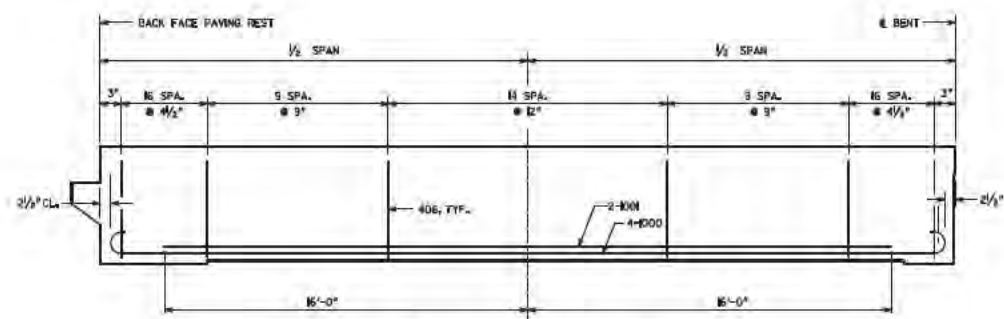


DETAILS OF 1" EXPANSION JOINT IN BARRIER
SCALE 1/2" = 1'-0"

NOTE: NO. 4 TIE BARS ARE NOT INCLUDED IN QUANTITIES. NO. 4 TIE BARS TO BE PAID FOR IN PRICE BID FOR LUMP SUM SUPERSTRUCTURE REINFORCEMENT.

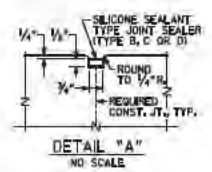


SECTION OF STEM (TYP.)
SCALE 3/4" = 1'-0"

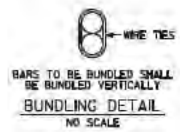


BEAM REINFORCEMENT DETAILS
140# BARS ARE NOT SHOWN
NO SCALE

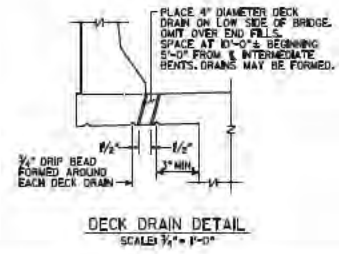
- NOTES:
1. AT EXPANSION END, FORM 1 1/2" X 3" X 1" DEEP SLOT IN BEAM FOR 10#3 DOWEL BAR.
 2. AT FIXED END, EFFECTIVELY WRAP #3 DOWEL BAR TO PREVENT BOND WITH BEAM CONCRETE.



DETAIL "A"
NO SCALE



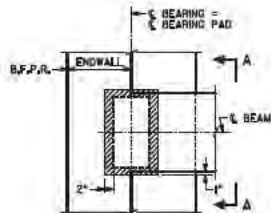
BARS TO BE BUNDLED SHALL BE BUNDLED VERTICALLY
BUNDLING DETAIL
NO SCALE



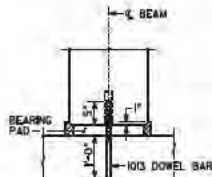
DECK DRAIN DETAIL
SCALE 3/4" = 1'-0"

BRIDGE NO. 1 LEFT & RIGHT		
GEORGIA		
DEPARTMENT OF TRANSPORTATION		
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES		
MISCELLANEOUS DETAILS		
SR 31 (SR 89, US22) AND US 44) OVER		
LITTLE RED BLUFF CREEK OVERFLOW		
ATKINSON COUNTY EDS00-0441-001(041)		

DRAWING NO.	35-0005	DATE	MARCH 2019
BRIDGE SHEET	5 OF 12	DESIGNED BY	CHKD BY
		DATE	

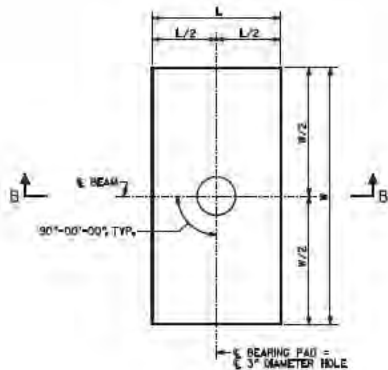


PLAN
BENT 1 SHOWN
BENT 5 SIMILAR

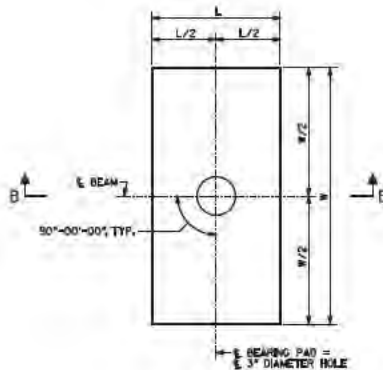


PREFORMED FOAM JOINT FILLER SHALL BE FURNISHED IN ACCORDANCE WITH SUB-SECTION 833.230 OF THE GEORGIA DOT SPECIFICATIONS.

SECTION A-A
ENDWALL NOT SHOWN



PLAN



PLAN



SECTION B-B
BEARING PAD "A"



SECTION B-B
BEARING PAD "B"

NOTES

- BEARING PAD "A" SHALL BE FURNISHED IN ACCORDANCE WITH AASHTO SPECIFICATIONS DIVISION II, SECTION 18, BEARINGS.
- BEARING PAD "B" HAS BEEN DESIGNED ACCORDING TO AASHTO SPECIFICATIONS DIVISION I, SECTION 14.6.6 METHOD A AND SHALL BE FURNISHED IN ACCORDANCE WITH AASHTO SPECIFICATION DIVISION II, SECTION 18, BEARINGS.
- BEARING PADS SHALL BE MADE OF 60 DUROMETER HARDNESS NEOPRENE, GRADE 2 OR HIGHER.
- 3" DIAMETER HOLE IN BEARING PADS MAY BE FORMED OR DRILLED.
- REINFORCED BEARING PADS SHALL HAVE 1/4" COVER ON THE TOP, BOTTOM, AND SIDES AND AROUND THE HOLE.
- 1/4" LOAD PLATES AND 14 GAGE INTERNAL PLATE(S) (IF REQUIRED) SHALL BE ASTM A 709 GRADE 36 OR ASTM A 1011 GRADE 36.
- NUMBER OF LOAD PLATES AND INTERNAL PLATES SHOWN FOR ILLUSTRATION PURPOSES ONLY. THE NUMBER OF INTERNAL PLATE(S) SPECIFIED SHALL BE EQUALLY SPACED BETWEEN LOAD PLATES.
- USE OF 1/2" HOLD DRAFT IS OPTIONAL.
- COST OF FURNISHING AND INSTALLING BEARING PADS SHALL BE INCLUDED IN "LUMP CY SUPERSTR CONCRETE, CL. AA".
- SHOULD THE CONTRACTOR CHOOSE TO SUBSTITUTE PRECAST BEAMS FOR THE CAST-IN-PLACE BEAMS SHOWN, BEARING PADS "B" SHALL BE REDESIGNED ACCOUNTING FOR NEW LOADS AND ROTATIONS AND SHALL HAVE 3/8" SEALING RIBS TOP AND BOTTOM. BEARING PADS "A" SHALL REMAIN AS SHOWN.

BENT	BEARING PADS								
	PAD	W	L	T	NUMBER OF INTERNAL PLATES	DESIGN SHEAR DEFLECTION	DESIGN LOADS (KIPS)		
							DEAD LOAD	LIVE LOAD (NO IMPACT)	DEAD LOAD + LIVE LOAD
1	B	16"	9"	2 3/4"	3	3/8"	57	59	NS
2	A	16"	9"	1/2"	-	-	-	-	-
3	A	16"	9"	1/2"	-	-	-	-	-
4	A	16"	9"	1/2"	-	-	-	-	-
5	B	16"	9"	2 3/4"	3	3/8"	57	59	NS

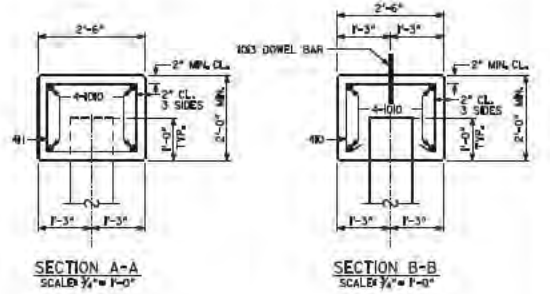
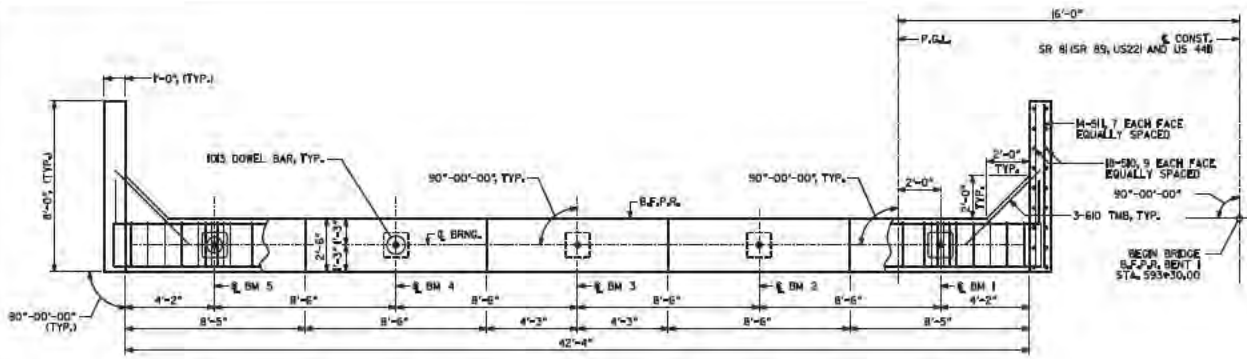
BRIDGE NO. 1 LEFT & RIGHT

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

BEARING PAD DETAILS
SR 31 (SR 89, US22) AND US 44) OVER
LITTLE RED BLUFF CREEK OVERFLOW
ATKINSON COUNTY EDS00-0441-001(041)

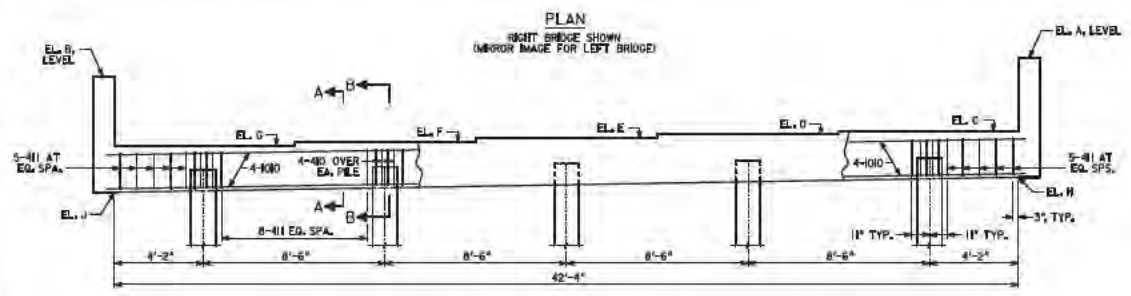
DRAWING NO. 35-0006	NO SCALE	MARCH 2019
BRIDGE SHEET 6 OF 10	DESIGNER: JAY	CHECKED: JSC
	DATE: 03/15/19	DESIGNED: JSC
	DATE: 03/15/19	DESIGNED: JSC

1/8" = 1" UNLESS OTHERWISE NOTED



ALL PILES SHALL BE 14 IN SQ. PSC

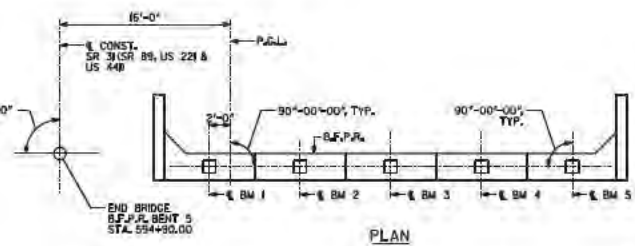
PLAN DRIVING OBJECTIVE
ALL PILES SHALL BE DRIVEN TO A DRIVING RESISTANCE OF 60 TONS AFTER MINIMUM TIP ELEVATIONS OF 170 AT BENT 1 AND 168 AT BENT 5 ARE ACHIEVED.



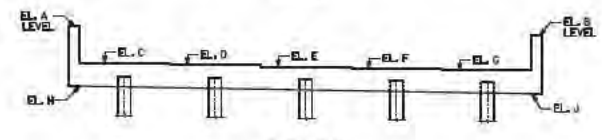
ELEVATION
BENT 1 (LOOKING BACK)
RIGHT BRIDGE SHOWN (LEFT BRIDGE SIMILAR)

TABLE OF ELEVATIONS									
	A	B	C	D	E	F	G	H	J
BENT 1	201.75	200.92	197.80	197.63	197.46	197.29	197.12	195.79	194.95
BENT 5	202.36	201.32	198.20	198.03	197.86	197.69	197.52	196.19	195.35

- NOTES:
- POUR WINGWALLS MONOLITHICALLY WITH CAP.
 - BOTTOM OF WING WALL IS LEVEL.
 - SEE 04 STD 9037 FOR DRAINAGE DETAIL AT END BENTS.



PLAN



SUBSTRUCTURE QUANTITIES - LEFT		
ITEM	BENT 1	BENT 5
CY CLASS A CONCRETE	10J	10K
LB BAR REINF STEEL	1640	1640

SUBSTRUCTURE QUANTITIES - RIGHT		
ITEM	BENT 1	BENT 5
CY CLASS A CONCRETE	10J	10K
LB BAR REINF STEEL	1640	1640

BRIDGE NO. 1 LEFT & RIGHT

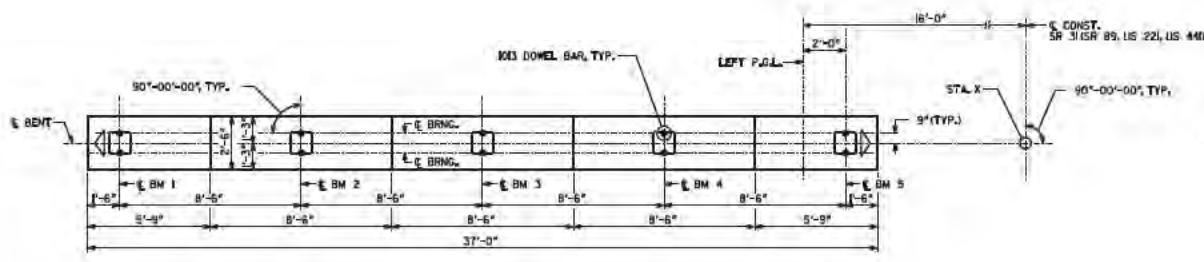
GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

END BENTS 1 AND 5
SR 31(SR 89, US 221) AND US 44) OVER
LITTLE RED BLUFF CREEK OVERFLOW
ATKINSON COUNTY EDS00-0441-001(041)

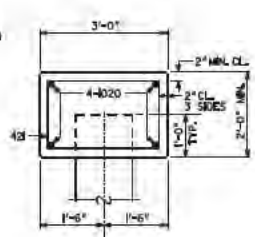
SCALE 3/4" = 1'-0" (UNLESS OTHERWISE NOTED) MARCH 2019

DESIGNER	CHECKED	APPROVED
DATE	DATE	DATE

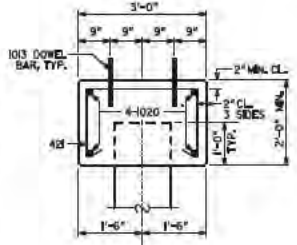
DRAWING NO. 35-0007
BRIDGE SHEET 7 OF 12



PLAN
LEFT BRIDGE SHOWN
(MIRROR IMAGE FOR RIGHT BRIDGE)



SECTION A-A
SCALE 3/4" = 1'-0"

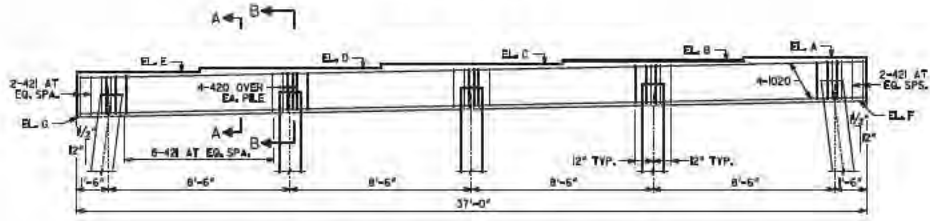


SECTION B-B
SCALE 3/4" = 1'-0"

ALL PILES SHALL BE PSC, 16 IN SQ.

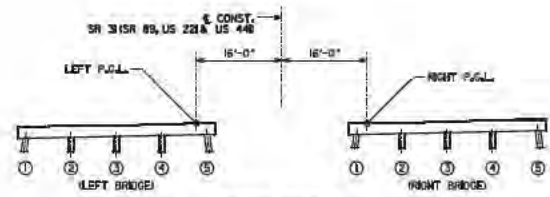
PLAN DRIVING OBJECTIVE

ALL PILES SHALL BE DRIVEN TO A DRIVING RESISTANCE OF 70 TONS AFTER MINIMUM TOP ELEVATIONS OF 80 AT BENT 2, 85 AT BENT 3 AND 80 AT BENT 4 ARE ACHIEVED.



ELEVATION
(LOOKING AHEAD)
LEFT BRIDGE SHOWN
(MIRROR IMAGE FOR RIGHT BRIDGE)

TABLE OF ELEVATIONS								
	A	B	C	D	E	F	G	STA. X
BENT 2	198.07	197.90	197.73	197.56	197.39	196.01	195.25	593+70.00
BENT 3	198.17	198.00	197.83	197.66	197.49	196.11	195.37	594+00.00
BENT 4	198.24	198.00	197.83	197.66	197.59	196.21	195.47	594+50.00



CROSS SECTION
(LOOKING AHEAD)
NO SCALE

NOTE:
INDICATES DIRECTION OF BATTER.

SUBSTRUCTURE QUANTITIES - LEFT				
ITEM	BENT 2 L	BENT 3 L	BENT 4 L	
CY CLASS A CONCRETE	8.3	8.3	8.3	
LB BAR REINF STEEL	108	109	108	

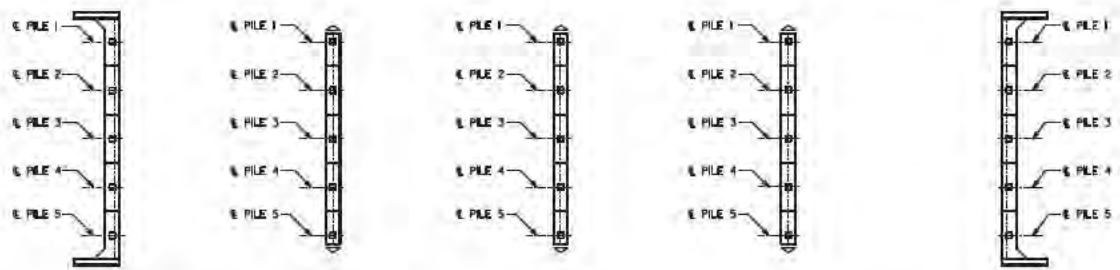
SUBSTRUCTURE QUANTITIES - RIGHT				
ITEM	BENT 2 R	BENT 3 R	BENT 4 R	
CY CLASS A CONCRETE	8.3	8.3	8.3	
LB BAR REINF STEEL	108	109	108	

BRIDGE NO. 1 LEFT & RIGHT

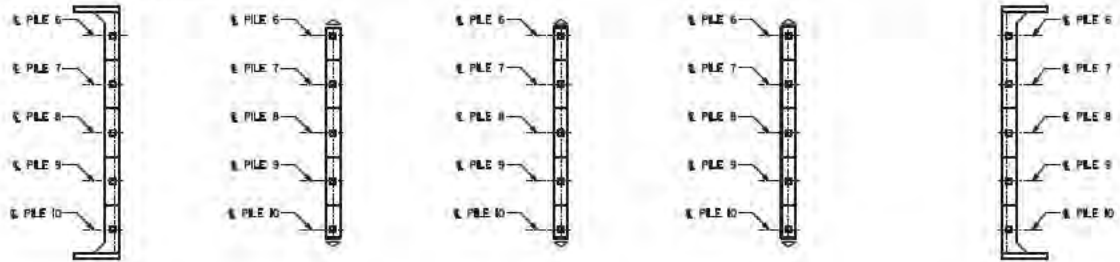
GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

INTERMEDIATE BENTS 2, 3 & 4
SR 31(SR 89, US22) AND US 44) OVER
LITTLE RED BLUFF CREEK OVERFLOW
ATKINSON COUNTY EDS00-0441-001(041)

DRAWING NO. 35-0008	DATE 03/22/09	SCALE 3/4" = 1'-0" (UNLESS OTHERWISE NOTED)	DATE MARCH 2019
BRIDGE SHEET 8 OF 12	DESIGNER JMS	CHECKED JMS	APPROVED JMS



593+00 594+00 595+00
 CONST. SR 89 (US 44)



BENT 1 BENT 2 BENT 3 BENT 4 BENT 5

FOUNDATION LAYOUT

△ INDICATES DIRECTION OF BATTER

THIS 'AS BUILT FOUNDATION INFORMATION' SHEET SHALL BE FILLED IN BY THE PROJECT ENGINEER AND FORWARDED TO THE BRIDGE OFFICE AFTER INSTALLATION OF ALL PILES FOR POSTING TO PLANS AS A PERMANENT RECORD OF BRIDGE CONSTRUCTION.

PROJECT ENGINEER _____ DATE _____
 (AREA CODE) TELEPHONE NUMBER _____

AS-BUILT FOUNDATION INFORMATION			AS-BUILT FOUNDATION INFORMATION			AS-BUILT FOUNDATION INFORMATION			AS-BUILT FOUNDATION INFORMATION			AS-BUILT FOUNDATION INFORMATION		
BENT	LOCATION	PILE TIP ELEV.	BENT	LOCATION	PILE TIP ELEV.	BENT	LOCATION	PILE TIP ELEV.	BENT	LOCATION	PILE TIP ELEV.	BENT	LOCATION	PILE TIP ELEV.
1 L	PILE 1		2 L	PILE 1		3 L	PILE 1		4 L	PILE 1		5 L	PILE 1	
	PILE 2			PILE 2			PILE 2			PILE 2			PILE 2	
	PILE 3			PILE 3			PILE 3			PILE 3			PILE 3	
	PILE 4			PILE 4			PILE 4			PILE 4			PILE 4	
	PILE 5			PILE 5			PILE 5			PILE 5			PILE 5	
1 R	PILE 6		2 R	PILE 6		3 R	PILE 6		4 R	PILE 6		5 R	PILE 6	
	PILE 7			PILE 7			PILE 7			PILE 7			PILE 7	
	PILE 8			PILE 8			PILE 8			PILE 8			PILE 8	
	PILE 9			PILE 9			PILE 9			PILE 9			PILE 9	
	PILE 10			PILE 10			PILE 10			PILE 10			PILE 10	

BRIDGE NO. 1 LEFT & RIGHT

GEORGIA
 DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

AS-BUILT FOUNDATION INFORMATION
 SR 31(SR 89, US22) AND US 44) OVER
 LITTLE RED BLUFF CREEK OVERFLOW
 ATKINSON COUNTY EDS00-0441-001(041)

DRAWING NO. 35-0009
 BRIDGE SHEET 5 OF 10

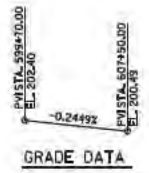
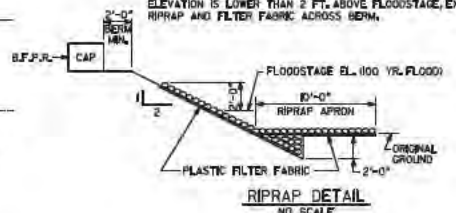
SCALE 1"= 10'-0"

MARCH 2019

DESIGNED BY: [] DRAWN BY: [] CHECKED BY: []

- NOTES:**
1. END BENT PILES NOT SHOWN.
 2. ALL BENTS ARE PARALLEL.
 3. SLOPE NORMAL TO END BENT.
 4. STATIONS AND ELEVATIONS ARE ALONG PROFILE GRADE LINE AT THE INTERSECTION OF PROFILE GRADE LINE AND BRPR OR E BENT.

PLACE BRPR AND FILTER FABRIC FROM 2 FT. BELOW ORIGINAL GROUND TO 2 FT. ABOVE FLOODSTAGE ELEVATION. EXTEND BRPR AND FILTER FABRIC 20 FT. BEYOND END OF BRWALLS UNLESS OTHERWISE NOTED. WHERE BERM ELEVATION IS LOWER THAN 2 FT. ABOVE FLOODSTAGE, EXTEND BRPR AND FILTER FABRIC ACROSS BERM.



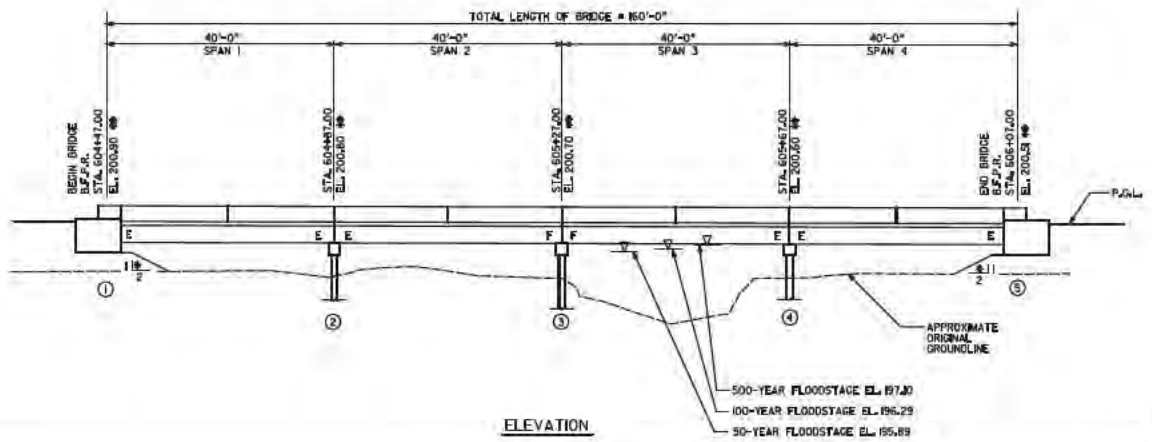
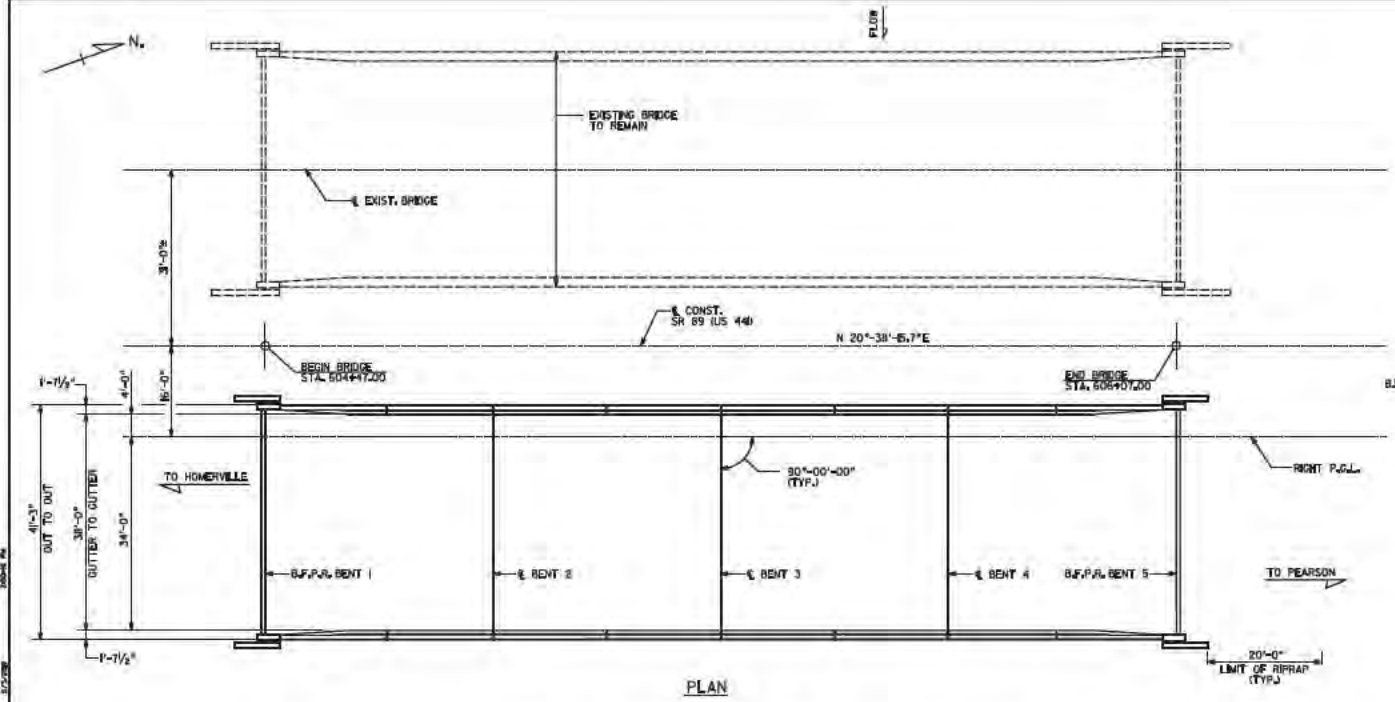
EXISTING BRIDGE SERIAL NO. 003-5038-0
 EXISTING BRIDGE ID NO. 003-00030-008,008
 PROJECT # NO. 422380-

BRIDGE NO. 2 RIGHT
 GEORGIA
 DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES
 PLAN AND ELEVATION
 SR 31(SR 89, US22) AND US 44) OVER
 LITTLE RED BLUFF CREEK OVERFLOW
 ATKINSON COUNTY ED500-0441-001(041)

DRAWING NO. 35-008
 BRIDGE SHEET 1 OF 1

SCALE 1" = 10'-0" (UNLESS OTHERWISE NOTED) MARCH 2019

DESIGNER	DRAWN	CHECKED
DATE	DATE	DATE



4/2/2018

4/2/2018

1"=10' WHEN PRINTED FULL SIZE

4/2/2018

BRIDGE CONSISTS OF

- 4 - 40'-0" REINFORCED CONCRETE DECK GIRDER SPANS ----- SPECIAL DESIGN
- 2 - PSC PILE END BENTS ----- SPECIAL DESIGN
- 3 - PSC PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (8-30-02)
(L = 4'-0"; M = 1'-1"; N = 2'-8")
- SQUARE PRESTRESSED CONCRETE PILES ----- GA. STD. 3215 (2-22-84)
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (8-99)

DRAINAGE DATA

DRAINAGE AREA ----- 24.7 SQ MILES

FLOOD FREQUENCY	TOTAL DISCHARGE	DISCHARGE THRU BRIDGE	MEAN VELOCITY	AREA OF OPENING BELOW FLOODSTAGE	BACKWATER
50 YEAR	2128 CFS	1038 CFS	1.89 FPS	549 SQ FT	0.93 FT
100 YEAR	2537 CFS	1215 CFS	2.01 FPS	805 SQ FT	0.99 FT
500 YEAR	3594 CFS	1730 CFS	2.36 FPS	732 SQ FT	0.99 FT

TRAFFIC DATA

TRAFFIC -----	ADT = 4,700 (2021)
	ADT = 5,400 (2041)
DESIGN SPEED -----	65/45 MPH
TRUCKS -----	15.75%
24 HR TRUCKS -----	17%
DIRECTIONAL -----	49/54

UTILITIES

NO UTILITIES ON BRIDGE

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2013 EDITION, AND 2016 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. MAINTAIN 2 INCH MINIMUM CLEARANCE ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING RIP RAP - INCLUDE THE COST OF REMOVING, RELAYING, AND/OR REPLACING RIP RAP IN THE OVERALL BID SUBMITTED.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

DYNAMIC PILE TESTING - PERFORM PILE TESTING USING THE PILE DRIVING ANALYZER (PDA) IN ACCORDANCE WITH SPECIAL PROVISION SECTION 523. NOTIFY THE GEOTECHNICAL BUREAU OF GEORGIA DOT OFFICE OF MATERIAL AND TESTING AT 404-808-4720 TWO WEEKS PRIOR TO DRIVING PILES. DYNAMIC PILE TESTING SHALL BE REQUIRED FOR EACH TEST PILE.

PILE DRIVING - SHOULD PILES FAIL TO OBTAIN DRIVING RESISTANCE AFTER ACHIEVING THE PILE TIP ELEVATIONS SHOWN, ALLOW PILES TO FREEZE A MINIMUM OF 24 HOURS AND RESTRIKE WITH A WARM HAMMER.

BENT NUMBER	PILE TIP ELEVATION
1A2	142
3	152
4	132
5	127

TEST PILES - DRIVE TEST PILE AT THE FOLLOWING LOCATION:
 ONE 14 IN SQ PSC X 62 FT AT BENT 1 RIGHT
 ONE 16 IN SQ PSC X 63 FT AT BENT 2 CENTER
 ONE 16 IN SQ PSC X 72 FT AT BENT 4 RIGHT

1013 DOVEL BARS - CAST 1013 DOVEL BARS IN PLACE OR PLACE DOVELS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS. SEE SUB-SECTION 501.3.05.6.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES. AT FIXED ENDS, EFFECTIVELY WRAP 1013 DOVEL BARS TO PREVENT BOND WITH BEAM CONCRETE. AT EXPANSION ENDS, FORM 1.5" X 3" X 7" DEEP SLOT IN BEAM FOR 1013 DOVEL BARS.

GROOVED CONCRETE - GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.

BOTTOM OF BEAM ELEVATIONS - BOTTOM OF THE BEAMS SHALL NOT BE BELOW ELEVATION 197.29.

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND TESTING. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF WATERPROOFING, JOINT FILLERS AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

DESIGN DATA

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002
(DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

TYPICAL HS20-44 AND/OR MILITARY LOADING ----- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

CONCRETE SUPERSTRUCTURE ----- CLASS AA, $f_c = 3,500$ PSI

BARRIER ----- CLASS AA, $f_c = 3,500$ PSI

SUBSTRUCTURE ----- CLASS A, $f_c = 3,000$ PSI

REINFORCEMENT STEEL ----- GRADE 60, $f_y = 60,000$ PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	640	SY	GROOVED CONCRETE
500-1006	LF	SY	SUPERSTR CONCRETE, CL AA, BR HQ - 4 (273)
500-2100	310	LF	CONCRETE BARRIER
500-3101	45	CY	CLASS A CONCRETE
511-1000	6337	LB	BAR REINF STEEL
511-3000	LUMP	LF	SUPERSTR REINF STEEL, BR HQ - 4 (78408)
520-2214	590	LF	PIILING, PSC, 14 IN SQ
520-2216	730	LF	PIILING, PSC, 16 IN SQ
520-3214	1	EA	TEST PILE, PSC, 14 IN SQ
520-3216	2	EA	TEST PILE, PSC, 16 IN SQ
520-4214	1	EA	LOAD TEST, PSC, 14 IN SQ (1F REBO)
520-4216	1	EA	LOAD TEST, PSC, 16 IN SQ (1F REBO)
523-1100	3	EA	DYNAMIC PILE TEST
603-2024	532	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	532	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 2 RIGHT

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

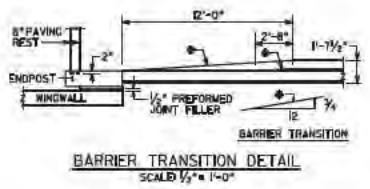
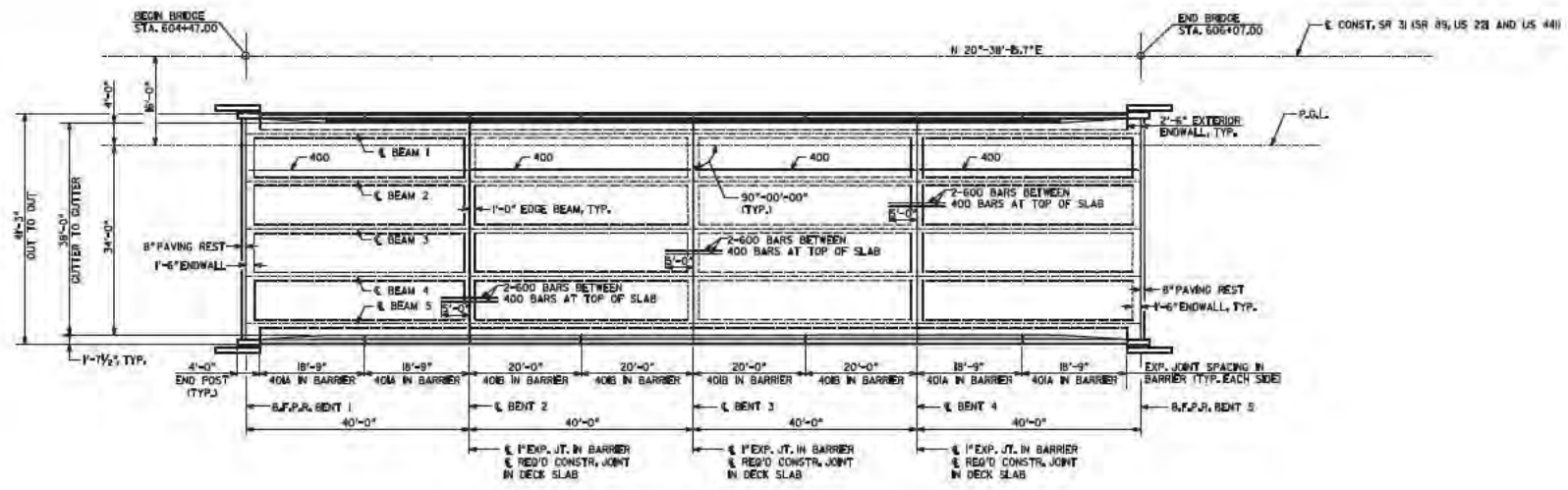
GENERAL NOTES
SR 31(SR 89, US22) AND US 44) OVER
LITTLE RED BLUFF CREEK OVERFLOW
ATKINSON COUNTY EDS00-0441-001(041)

NO SCALE MARCH 2019

DRAWING NO. 35-006	DATE 03/15/19	BY JTB	CHECKED JTB	DESIGN JTB	SCALE AS SHOWN
BRIDGE SHEET 2 OF 12	DESIGN JTB	SCALE AS SHOWN	DATE 03/15/19	BY JTB	CHECKED JTB

1" = 10' UNLESS OTHERWISE NOTED

13/03/2019



ITEM	SUPERSTRUCTURE QUANTITIES				TOTAL
	SPAN 1	SPAN 2	SPAN 3	SPAN 4	
LUMP - CY SUPERSTR. CONCRETE, CLASS AA	70.9	65.7	65.7	70.3	273.2
LUMP - LB SUPERSTR. REINF. STEEL	19,82	19,562	20,463	19,82	78,409

END POST CONCRETE AND BAR REINFORCEMENT STEEL INCLUDED IN SPANS 1 & 4 QUANTITIES.
 REINFORCING QUANTITIES FOR BARS 600 INCLUDED IN SPANS 2 & 3 QUANTITIES.

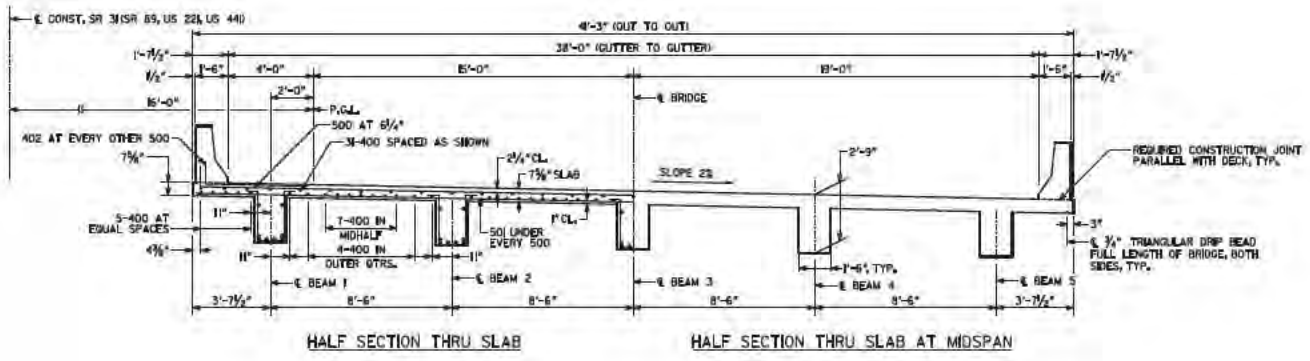
BRIDGE NO. 2 RIGHT

GEORGIA
 DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

DECK PLAN
 SR 31(SR 89, US 22) AND US 44) OVER
 LITTLE RED BLUFF CREEK OVERFLOW
 ATKINSON COUNTY EDS00-0441-00(041)

DRAWING NO. 35-006	DATE 12/15/88	BY R. J. BROWN	CHECKED R. J. BROWN	SCALE 1" = 10'-0" (UNLESS OTHERWISE NOTED)	MARCH 1989
BRIDGE SHEET 3 OF 10	DESIGNER R. J. BROWN	DRAWN R. J. BROWN	CHECKED R. J. BROWN	REVISIONS	

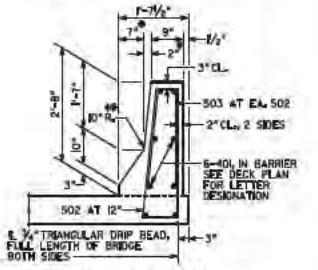
1/8" = 1" WHEN PRINTED FULL SIZE



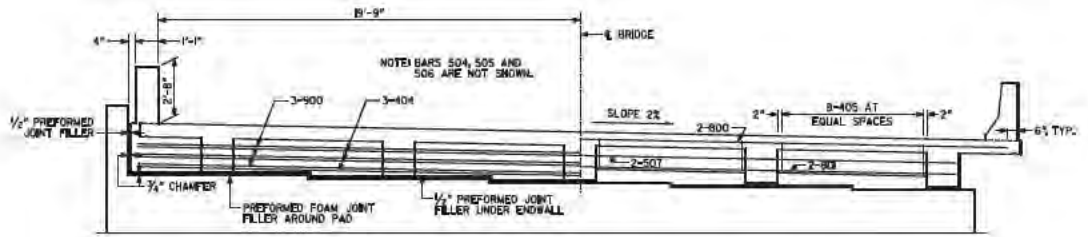
HALF SECTION THRU SLAB

HALF SECTION THRU SLAB AT MIDSPAN

* TAPERS TO 0° AT END POST
 ** AT CONTRACTOR'S OPTION, 10° RADIUS MAY BE REPLACED BY STRAIGHT INTERSECTING SLOPES.

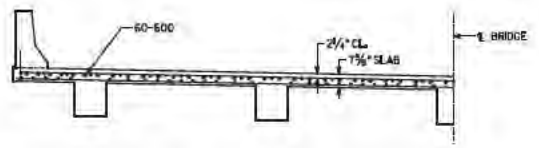


BARRIER DETAIL
 SCALE 3/4" = 1'-0"



HALF SECTION THRU ENDWALL

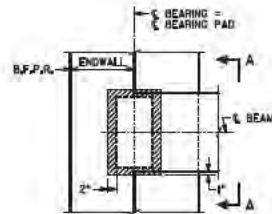
HALF SECTION THRU EDGE BEAM



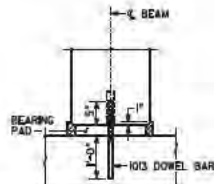
HALF SECTION THRU SLAB AT INTERMEDIATE BENT

BRIDGE NO. 2 RIGHT
 GEORGIA
 DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES
 DECK SECTIONS
 SR 31(SR 89, US224 AND US 44) OVER
 LITTLE RED BLUFF CREEK OVERFLOW
 ATKINSON COUNTY EDS00-0441-001(041)

DRAWING NO. 35-004	SCALE 3/8" = 1'-0" (UNLESS OTHERWISE NOTED) MARCH 2019						
BRIDGE SHEET 4 OF 8	<table border="1"> <tr> <td>DESIGNER</td> <td>DRAWN</td> <td>CHECKED</td> </tr> <tr> <td>DATE</td> <td>DATE</td> <td>DATE</td> </tr> </table>	DESIGNER	DRAWN	CHECKED	DATE	DATE	DATE
DESIGNER	DRAWN	CHECKED					
DATE	DATE	DATE					

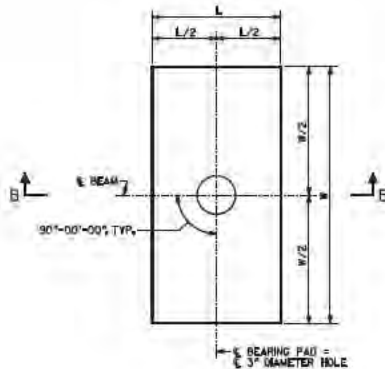


PLAN
BENT 1 SHOWN
BENT 5 SIMILAR

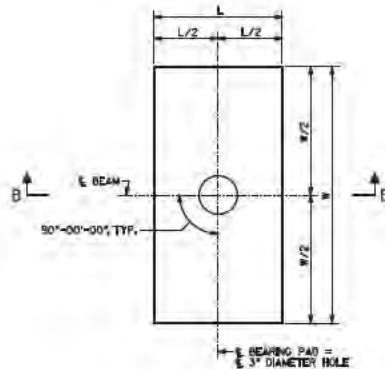


PREFORMED FOAM JOINT FILLER SHALL BE FURNISHED IN ACCORDANCE WITH SUB-SECTION 833.230 OF THE GEORGIA DOT SPECIFICATIONS.

SECTION A-A
ENDWALL NOT SHOWN



PLAN



PLAN



SECTION B-B
BEARING PAD "A"



SECTION B-B
BEARING PAD "B"

NOTES

1. BEARING PAD "A" SHALL BE FURNISHED IN ACCORDANCE WITH AASHTO SPECIFICATIONS DIVISION II, SECTION 18, BEARINGS.
2. BEARING PAD "B" HAS BEEN DESIGNED ACCORDING TO AASHTO SPECIFICATIONS DIVISION II, SECTION 14.6.6 METHOD A AND SHALL BE FURNISHED IN ACCORDANCE WITH AASHTO SPECIFICATION DIVISION II, SECTION 18, BEARINGS.
3. BEARING PADS SHALL BE MADE OF 60 DUROMETER HARDNESS NEOPRENE, GRADE 2 OR HIGHER.
4. 3" DIAMETER HOLE IN BEARING PADS MAY BE FORMED OR DRILLED.
5. REINFORCED BEARING PADS SHALL HAVE 1/4" COVER ON THE TOP, BOTTOM, AND SIDES AND AROUND THE HOLE.
6. 3/8" LOAD PLATES AND (4 GAGE INTERNAL PLATE(S) (IF REQUIRED) SHALL BE ASTM A 709 GRADE 36 OR ASTM A 1011 GRADE 36.
7. NUMBER OF LOAD PLATES AND INTERNAL PLATES SHOWN FOR ILLUSTRATION PURPOSES ONLY. THE NUMBER OF INTERNAL PLATE(S) SPECIFIED SHALL BE EQUALLY SPACED BETWEEN LOAD PLATES.
8. USE OF 1/2" HOLD DRAFT IS OPTIONAL.
9. COST OF FURNISHING AND INSTALLING BEARING PADS SHALL BE INCLUDED IN "LUMP CY SUPERSTR CONCRETE, CL. AA".
10. SHOULD THE CONTRACTOR CHOOSE TO SUBSTITUTE PRECAST BEAMS FOR THE CAST-IN-PLACE BEAMS SHOWN, BEARING PADS "B" SHALL BE REDESIGNED ACCOUNTING FOR NEW LOADS AND ROTATIONS AND SHALL HAVE 3/8" SEALING RIBS TOP AND BOTTOM. BEARING PADS "A" SHALL REMAIN AS SHOWN.

BENT	BEARING PADS								
	PAD	W	L	T	NUMBER OF INTERNAL PLATES	DESIGN SHEAR DEFLECTION	DESIGN LOADS (KIPS)		
							DEAD LOAD	LIVE LOAD (NO IMPACT)	DEAD LOAD + LIVE LOAD
1	B	16"	9"	2 3/4"	3	3/8"	57	59	NS
2	A	16"	9"	1/2"	-	-	-	-	-
3	A	16"	9"	1/2"	-	-	-	-	-
4	A	16"	9"	1/2"	-	-	-	-	-
5	B	16"	9"	2 3/4"	3	3/8"	57	59	NS

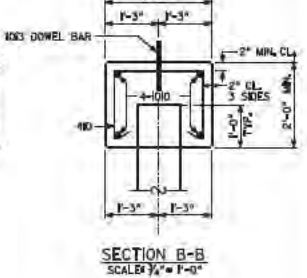
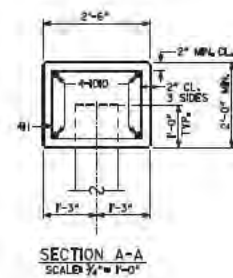
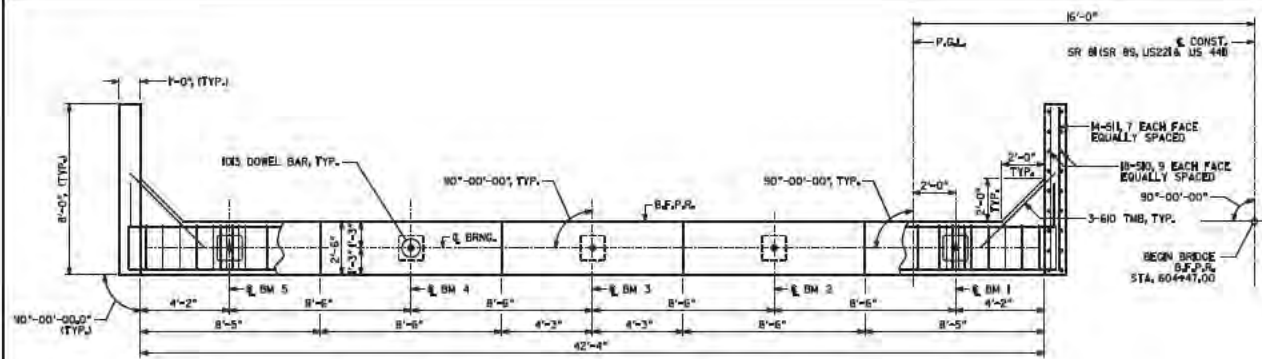
BRIDGE NO. 2 RIGHT

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

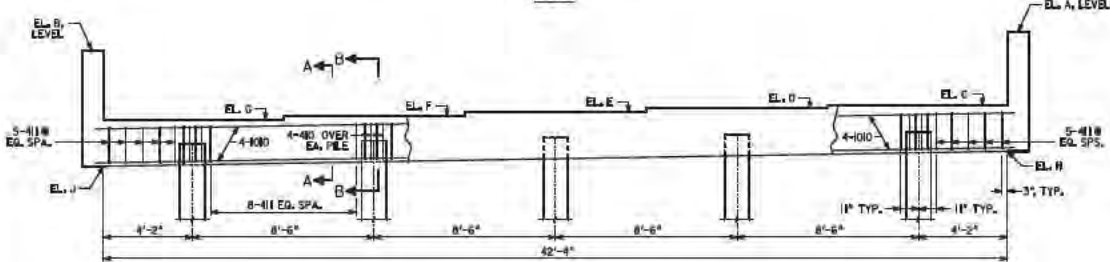
BEARING PAD DETAILS
SR 31(SR 89, US22) AND US 44) OVER
LITTLE RED BLUFF CREEK OVERFLOW
ATKINSON COUNTY EDS00-0441-001(041)

DRAWING NO. 35-036	NO SCALE	MARCH 2019	
BRIDGE SHEET 6 OF 10	DESIGNER: []	CHECKED: []	APPROVED: []

ENLARGED 1/8" WHEN PRINTED FULL SIZE



PLAN



ELEVATION
BENT 1
LOOKING BACK

ALL PILES SHALL BE M IN SQ. PSC

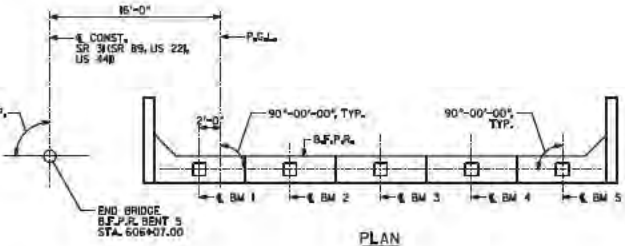
PLAN DRIVING OBJECTIVE

ALL PILES SHALL BE DRIVEN TO A DRIVING RESISTANCE OF 60 TONS AFTER MINIMUM TP ELEVATIONS OF 150 AT BENT 1 AND 135 AT BENT 5 ARE ACHIEVED.

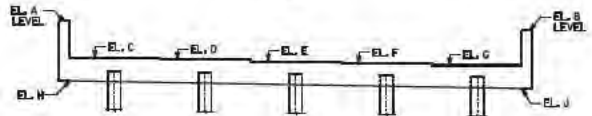
SUBSTRUCTURE QUANTITIES		
ITEM	BENT 1	BENT 5
CY CLASS A CONCRETE	104	104
LB BAR REINF STEEL	1640	1640

TABLE OF ELEVATIONS									
	A	B	C	D	E	F	G	H	J
BENT 1	202.29	201.35	198.23	198.06	197.89	197.72	197.55	195.22	195.36
BENT 5	202.18	200.91	197.85	197.68	197.51	197.34	197.17	195.84	195.00

- NOTES:
- POUR WINGWALLS MONOLITHICALLY WITH CAP.
 - BOTTOM OF WING WALL IS LEVEL.
 - SEE 04 STD 9037 FOR DRAINAGE DETAIL AT END BENTS.



PLAN



ELEVATION
BENT 5
LOOKING AHEAD
SCALE 3/4" = 1'-0"

BRIDGE NO. 2 RIGHT

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

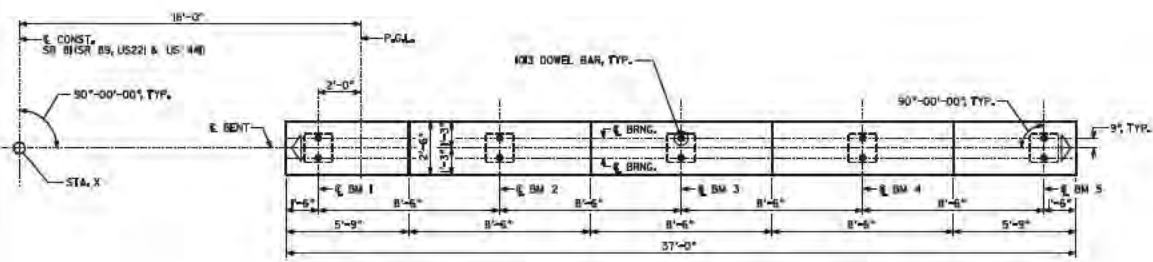
END BENTS 1 AND 5
SR 31(SR 89, US221 AND US 44) OVER
LITTLE RED BLUFF CREEK OVERFLOW
ATKINSON COUNTY EDS00-0441-00(041)

DRAWING NO. 35-007
BRIDGE SHEET 7 OF 8

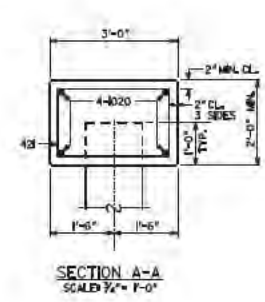
DATE	BY	CHECKED	DATE
12/22/09	MS	MS	12/22/09
DESIGNED	DRAWN	CHECKED	APPROVED
MS	MS	MS	MS

SCALE 3/4" = 1'-0" (UNLESS OTHERWISE NOTED) MARCH 2019

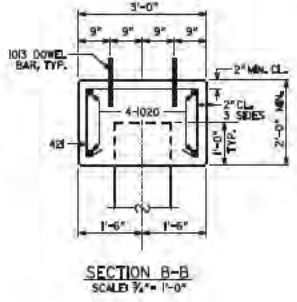
ACROSSROADS



PLAN



SECTION A-A
SCALE 3/8" = 1'-0"

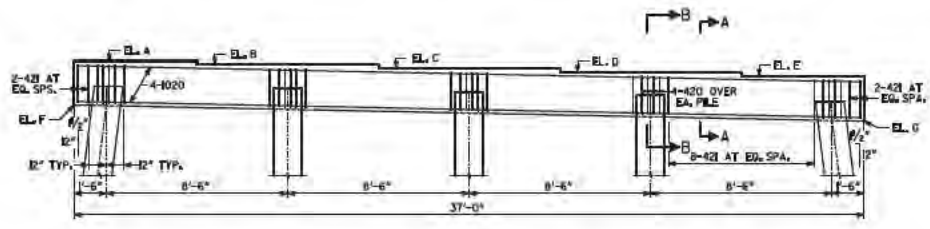


SECTION B-B
SCALE 3/8" = 1'-0"

ALL PILES SHALL BE 18 IN SQ. PSC

PLAN DRIVING OBJECTIVE

ALL PILES SHALL BE DRIVEN TO A DRIVING RESISTANCE OF 70 TONS AFTER MINIMUM TIP ELEVATIONS OF 80 AT BENT 2, 85 AT BENT 3 AND 82 AT BENT 4 ARE ACHIEVED.



ELEVATION
(LOOKING AHEAD)

TABLE OF ELEVATIONS							
	A	B	C	D	E	F	STA. X
BENT 2	198.31	198.14	197.97	197.80	197.63	196.25	6044+37.00
BENT 3	198.21	198.04	197.87	197.70	197.53	196.15	6054+27.00
BENT 4	198.11	197.94	197.77	197.60	197.43	196.05	6054+67.00

SUBSTRUCTURE QUANTITIES			
ITEM	BENT 2	BENT 3	BENT 4
CY CLASS A CONCRETE	6.3	6.3	6.3
LB BAR REINF STEEL	109	109	109

NOTE:
▷ INDICATES DIRECTION OF BATTER.

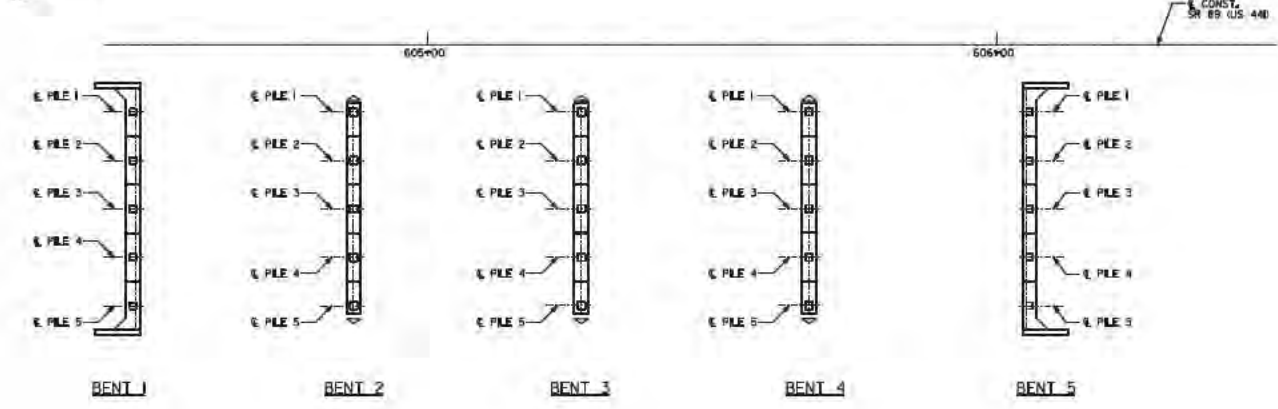
BRIDGE NO. 2 RIGHT

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

INTERMEDIATE BENTS 2, 3 & 4
SR 31(SR 89, US221 AND US 44) OVER
LITTLE RED BLUFF CREEK OVERFLOW
ATKINSON COUNTY EDS00-0441-001(041)

DRAWING NO. 35-008	DATE 03-18-2019	BY JTB	CHECKED JTB	APPROVED JTB
BRIDGE SHEET B OF B	SCALE 3/8" = 1'-0"	DATE 03-18-2019	BY JTB	APPROVED JTB

ENGINEERING 1 INCH WHEN PRINTED FULL SIZE



FOUNDATION LAYOUT

△ INDICATES DIRECTION OF BATTER

THIS "AS BUILT FOUNDATION INFORMATION" SHEET SHALL BE FILLED IN BY THE PROJECT ENGINEER AND FORWARDED TO THE BRIDGE OFFICE AFTER INSTALLATION OF ALL PILES FOR POSTING TO PLANS AS A PERMANENT RECORD OF BRIDGE CONSTRUCTION.

PROJECT ENGINEER _____ DATE _____

(AREA CODE) TELEPHONE NUMBER _____

AS-BUILT FOUNDATION INFORMATION		
BENT	LOCATION	PILE TIP ELEV.
1	PILE 1	
	PILE 2	
	PILE 3	
	PILE 4	
	PILE 5	

AS-BUILT FOUNDATION INFORMATION		
BENT	LOCATION	PILE TIP ELEV.
2	PILE 1	
	PILE 2	
	PILE 3	
	PILE 4	
	PILE 5	

AS-BUILT FOUNDATION INFORMATION		
BENT	LOCATION	PILE TIP ELEV.
3	PILE 1	
	PILE 2	
	PILE 3	
	PILE 4	
	PILE 5	

AS-BUILT FOUNDATION INFORMATION		
BENT	LOCATION	PILE TIP ELEV.
4	PILE 1	
	PILE 2	
	PILE 3	
	PILE 4	
	PILE 5	

AS-BUILT FOUNDATION INFORMATION		
BENT	LOCATION	PILE TIP ELEV.
5	PILE 1	
	PILE 2	
	PILE 3	
	PILE 4	
	PILE 5	

BRIDGE NO. 2 RIGHT

DATE 03/20/2019 BY J. B. BRYANT	GEORGIA DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES		
	AS-BUILT FOUNDATION INFORMATION SR 31(SR 89, US221 AND US 44) OVER LITTLE RED BLUFF CREEK OVERFLOW ATKINSON COUNTY EDS00-0441-001(041)		
	SCALE 1"= 10'-0"		MARCH 2019
DRAWING NO. 35-008	BRIDGE SHEET 5 OF 12	DRAWN BY JMB	CHECKED BY JMB

DRAWING NO. 35-008
BRIDGE SHEET 5 OF 12

1/8" MINIMUM PRINTED PLOT SIZE

LOCATION														LOCATION																								
NO. OF LOC.	MARK	LENGTH		NO. OF BARS	Y ₁	A	B		C	D		E		H	J	K	N	NO. OF LOC.	MARK	LENGTH		NO. OF BARS	Y ₁	A	B		C	D		E		H	J	K	N			
		PT.	IN.				PT.	IN.		PT.	IN.	PT.	IN.							PT.	IN.				PT.	IN.		PT.	IN.	PT.	IN.					PT.	IN.	
SPAN 1 OR 4														SPAN 3																								
2		400	39-8	85	1													1		400	39-8	85																
		401A	15-8	24	1															401B	15-8	24																
		402	7-4	78	3			5-4	1-0											402	7-4	78																
		404	41-11	3	1															405	5-1	54																
		405	5-1	32	31	4	4	0-9	1-9 1/2	1-9 1/2										406	5-8	325																
		406	5-8	325	30	4	4	1-3	2-4 1/8	2-4 1/8										408	35-7	10																
		408	35-7	10	1																																	
		500	42-8	78	2			40-8	1-0	1-0										500	42-4	78																
		501	40-11	78	1															501	40-11	78																
		502	5-8	76	23			0-9	2-11 5/8	2-11 5/8										502	5-8	82																
		503	5-1	76	23			0-5	2-4	2-4										503	5-1	82																
		504	4-7	27	46			1-7	1-10	0-3	D-8	D-8								507	35-2	4																
		505	35-6	1	1															600	10-0	120																
		506	3-8	56	3			2-5	1-3											800	40-0	4																
		507	35-2	2	1															801	35-2	4																
		800	40-0	2	1																																	
		801	35-2	2	1																																	
		900	41-11	3	1																																	
		1000	42-5	20	10																																	
		1001	32-0	10	1																																	
SPAN 2														SPAN 3																								
1		400	39-8	85																410	5-3	20	32	5	5	2-2	1-8	1-8										
		401B	15-8	24	1																411	8-5	42	25	4	4	2-2	1-8										
		402	7-4	78																	510	5-7	36	1														
		405	5-1	54																	511	7-8	28	1														
		406	5-8	325																	610	5-0	6	1														
		408	35-7	10																																		
		500	42-4	78																																		
		501	40-11	78																																		
		502	5-8	82																																		
		503	5-1	82																																		
		507	35-2	4																																		
		600	10-0	80	1																																	
		800	40-0	4																																		
		801	35-2	4																																		
		1000	42-5	20																																		
		1001	32-0	10																																		
SPAN 3														SPAN 4																								
		410	5-3	20	32	5	5	2-2	1-8	1-8																												
		411	8-5	42	25	4	4	2-2	1-8																													
		510	5-7	36	1																																	
		511	7-8	28	1																																	
		610	5-0	6	1																																	
		1010	47-4	4	2			43-4	2-0	2-0																												
		1013	1-8	10	1																																	
		420	5-8	20	32	5	5	2-5	1-8	1-8																												
		421	9-5	36	25	4	4	2-8	1-8																													
		1013	1-8	10																																		
		1020	35-8	4	1																																	

BRIDGE NO. 2 RIGHT

GEORGIA
 DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES
 BAR REINFORCEMENT
 SR 31(SR 89, US221 AND US 44) OVER
 LITTLE RED BLUFF CREEK OVERFLOW
 ATKINSON COUNTY EDS00-0441-001(41)

NO SCALE
 MARCH 2019

DRAWING NO.
 35-0020
 BRIDGE SHEET
 10 OF 10

BY: [Signature]
 DATE: [Date]
 CHECKED: [Signature]
 DATE: [Date]