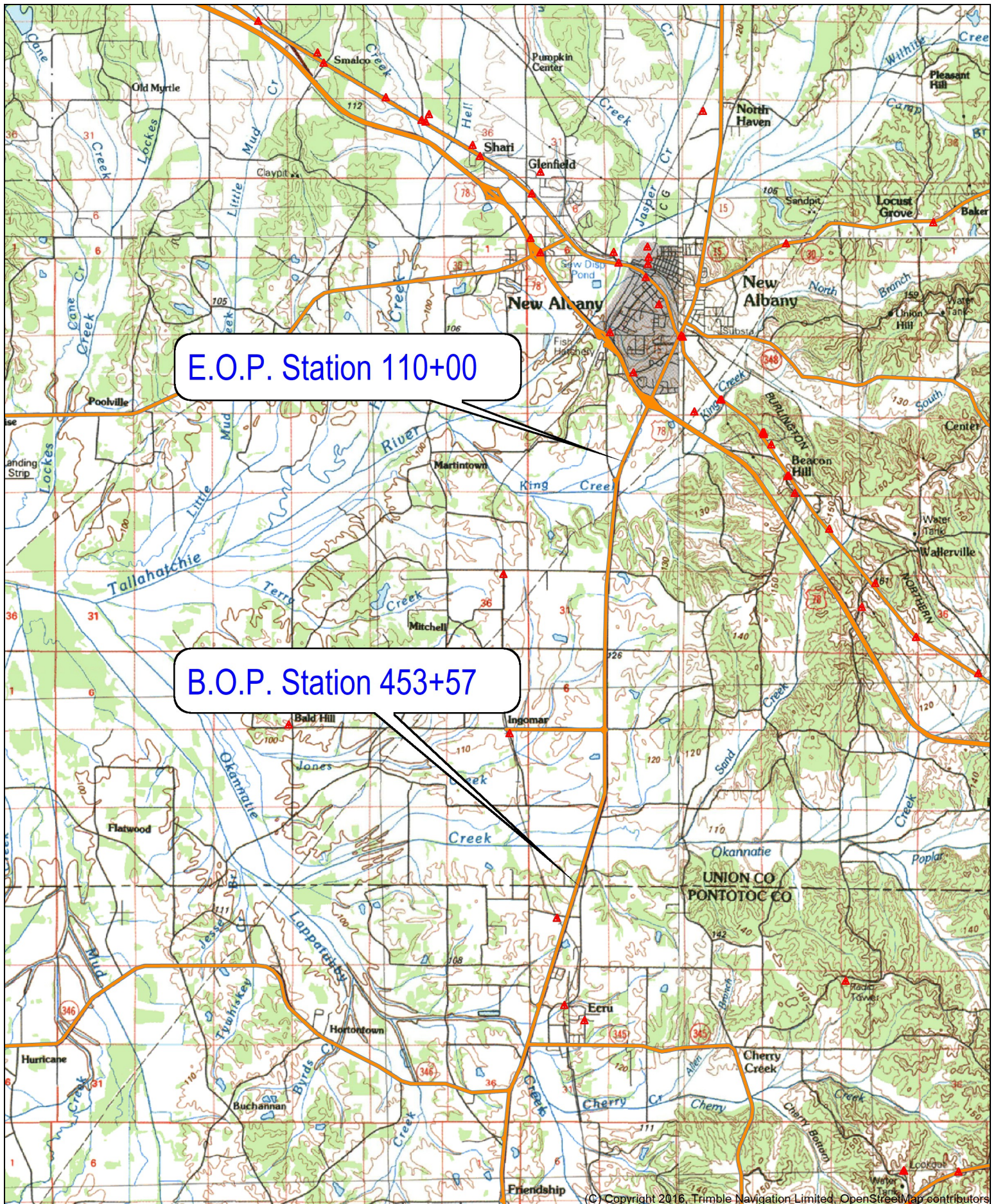


Union 15
STP-0022-04(071); 102607-302000

Section 404 General Permit 46
and Section 401 Water Quality

Location Map



E.O.P. Station 110+00

B.O.P. Station 453+57

Name: OXFORD
 Date: 03/21/23
 Scale: 1 inch = 8,333 ft.

Location: 034° 25' 55.1818" N, 089° 02' 25.4466" W
 Union County SR 15 Addition of Two Lanes Parallel With New
 Bridges - FMS 102607/302000



E.O.P. Station 110+00

B.O.P. Station 453+57

Name: Satellite Image (Hybrid Street)
 Date: 03/21/23
 Scale: 1 inch = 6,018 ft.

Location: 034° 25' 57.6260" N, 089° 02' 15.1999" W
 Union County SR 15 Addition of Two Lanes Parallel With New
 Bridges - FMS 102607/301000

Table of Impacts

Table 1. Wetland Data Point Summary Table

Data Point	Wetland ID#	Site # OR Worksheet #	Latitude*	Longitude*	Approximate Station Number	Section-Township-Range	Area from ROW to ROW (Acres)	Cowardin Classification	Impact**
DP-1a		13	34.45383	-89.01442	87+00	20-7S-3E		Upland	No Impact

DP- Data point- collection point for sampling data for wetland assessment
W- Wetland- areas described as wetlands
PFO- Palustrine Forested
PEM- Palustrine Emergent
PSS- Palustrine Shrub-Scrub
Station Numbers are approximate

Wetland Summary:	4 Total Present (acres)	Permanent Fill (acres)	Temporary Fill (acres)
Forested:	0	0	0
Shrub-Scrub:	0	0	0
Emergent:	0	0	0
Total	0	0	0

Table 2. Channel Assessment Table

CA #	Site #	Latitude	Longitude	Sta.	Section-Township-Range	Type	Length in Project Area (feet)	Channel Width (feet)	Name	Impact
1	6	34.37648	-89.02434	454+50	19-8S-3E	E	360	3	N/A	127 ft - Additional Culvert: 50 ft riprap fill; WKS 3
2	7	34.38461	-89.02117	485+25	18-8S-3E	E	380	10	N/A	160 ft - Additional Culvert; WKS 4
3	8	34.38698	-89.02025	495+00	18-8S-3E	P	360	80	Okannatie Creek	44 ft - Additional Bridge Width; Riprap of embankments to water bottom – 300 ft; WKS 4
4	8	34.38986	-89.01927	505+50	18-8S-3E	I	360	25	N/A	44 ft - Additional Bridge Width; WKS 5
5	8	34.39350	-89.01768	519+00	18-8S-3E	P	640	15	N/A	315 ft-Extend existing embedded Box Culvert; 86 ft riprap fill: Temporary impacts from bridge removal: WKS 5
6	10	34.42176	-89.01661	621+50	5-8S-3E	I	460	4	N/A	200 ft- Extend existing embedded Box Culvert; WKS 9
7	11	34.43450	-89.01600	665+75	32-7S-3E	I	460	9	N/A	135 ft- Extend existing embedded Box Culvert; 70 ft riprap fill; WKS 10
8	12	34.45341	-89.01403	735+50	20-7S-3E	P	440	40	King's Creek	44 ft - Additional Bridge Width; 160 feet of riprap fill; WKS 13

CA- Channel Assessment- Channel Assessment point location

Type:

P-Perennial

I-Intermittent

E-Ephemeral

OHWM-Ordinary High Water Mark

Station numbers (Sta.) are approximate

CA Summary	Total Present (ft)	New Bridge Width Shade/ Clear (ft)	Temporary Bridge Width Shade/ clear (ft)	Culvert/ Pipe (ft)	Rip-Rap/ Armor (ft)	Relocate and Fill (ft)	New Channel with riprap (ft)
Perennial:	949	88	0	315	546	0	0
Intermittent:	449	44	0	335	70	0	0
Ephemeral:	287	0	0	287	0	0	0
Total (P.I.E.)	1,685	132	0	937	616	0	0

Roadway and Bridge Plans

1st O.REV.

GENERAL INDEX

INCLUDED THIS PROJECT	BRIDGE WITH SHEET
<input checked="" type="checkbox"/> ROADWAY	1
<input checked="" type="checkbox"/> PERMANENT SIGNS	1001
<input checked="" type="checkbox"/> TRAFFIC SIGNALS	2001
<input checked="" type="checkbox"/> ITS COMPONENTS	3001
<input type="checkbox"/> LIGHTING	4001
<input type="checkbox"/> (RESERVED)	5001
<input checked="" type="checkbox"/> ROADWAY STANDARD DWGS	6001
<input type="checkbox"/> BOX CULVERT STD. DRAWINGS (LRFD)	7001
<input checked="" type="checkbox"/> BOX CULVERT STD. DRAWINGS (STD. SPEC.)	7501
<input checked="" type="checkbox"/> BRIDGE	8001
<input checked="" type="checkbox"/> CROSS SECTIONS	9001

BRIDGE STRUCTURES REQ'D.

BRIDGE A - NO. 287.6
 SR 15 @ OKANNATIE CREEK
 LT. STA. 493+12.88 TO STA. 497+35.12
 RT. STA. 493+43.88 TO STA. 497+66.12
 2@80'-1@100'-2@80'

BRIDGE B - NO. 287.8
 SR 15 @ OKANNATIE CREEK RELIEF
 LT. STA. 504+43.92 TO STA. 506+46.08
 RT. STA. 504+43.92 TO STA. 506+46.08
 1@60'-1@80'-1@60'

BRIDGE C - NO. 292.6
 SR 15 @ KING CREEK
 STA. 734+08.92 TO STA. 737+21.08
 1@80'-1@150'-1@80'

BOX BRIDGES REQ'D.

BOX BRIDGE NO. 288.1
 SR 15 @ OKANNATIE CREEK TRIBUTARY
 STA. 518+50

BOX BRIDGE NO. 292.8
 SR 15 @ KING CREEK RELIEF
 STA. 88+72.743

CONVENTIONAL SYMBOLS

COUNTY LINE	-----
TOWN CORPORATION LINE	-----
SECTION LINE	-----
EXISTING ROAD OR TRAVELED WAY	-----
PROPOSED ROAD OR TRAVELED WAY	-----
RAILROAD	-----
SURVEY LINE	-----
BRIDGES	-----

EQUATIONS

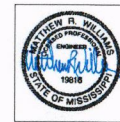
STA. 536+77.711 BK = STA. 536+79.975 AH
 STA. 733+04.494 BK = STA. 733+00.000 AH
 STA. 738+71.177 BK = STA. 86+19.180 AH
 STA. 105+04.232 BK = STA. 105+00.000 AH

LENGTH DATA

LENGTH OF ROADWAY	30894.98 FT.	5.85 MI.
LENGTH OF BRIDGES	936.56 FT.	0.19 MI.
LENGTH OF PROJECT (NET)		6.04 MI.
LENGTH OF EXCEPTIONS	0 FT.	0.00 MI.
LENGTH OF PROJECT (GROSS)		6.10 MI.

EXCEPTIONS

NONE



DATE: 3/15/2023
ROADWAY

DATE: 8/31/2021
SIGNALS

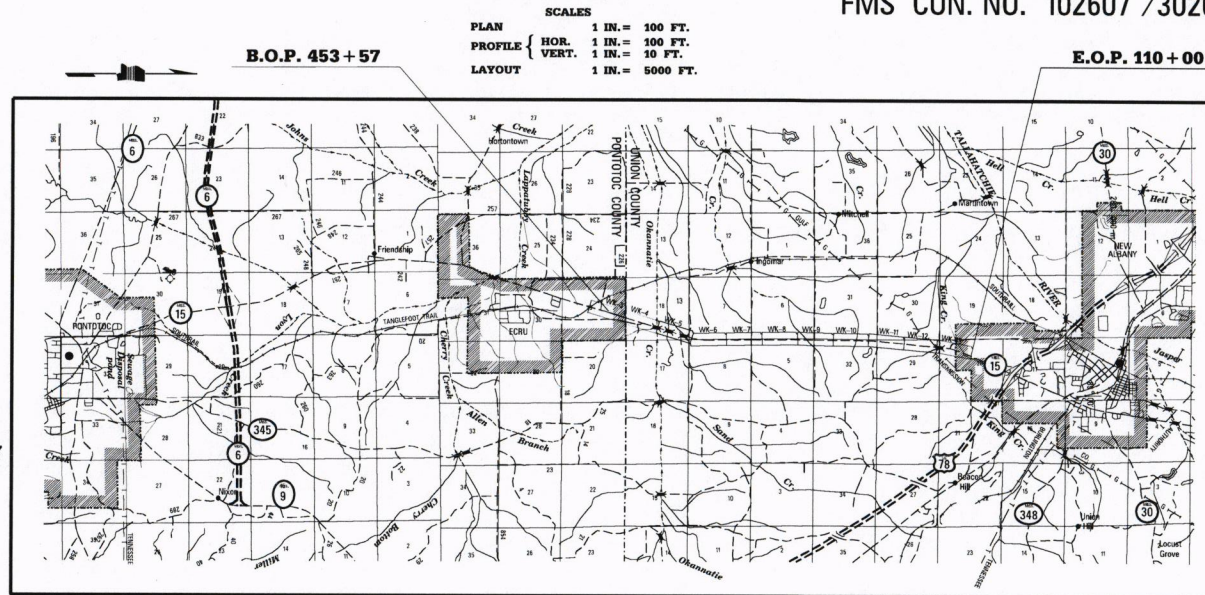
STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

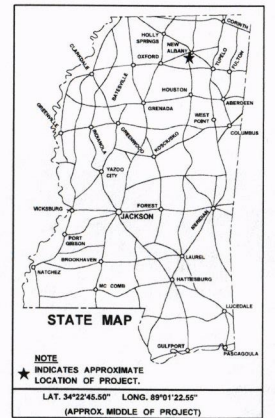
PLAN AND PROFILE OF PROPOSED STATE HIGHWAY FEDERAL AID PROJECT NO. STP-0022-04(040)

SR 15 FROM THE PONTOTOC COUNTY LINE TO EXISTING 5-LANE AT NEW ALBANY UNION COUNTY

FMS CON. NO. 102607 / 302000



STATE	PROJECT NUMBER	SHEET NO.
MISSISSIPPI	STP-0022-04(040)	1



DESIGN CONTROL	
65 MPH = V (SPEED DESIGN)	
ADT (2020) = 11,670 ; ADT (2040) = 15,720	
DIV = 1.500 ; D = 60 % ; T = 11 %	

PERMITS ACQUIRED BY MDOT	
WETLANDS AND WATERS PERMITS	
NATIONWIDE #14	<input type="checkbox"/> WATERS <input type="checkbox"/> WETLANDS
NATIONWIDE (OTHER)*	<input type="checkbox"/> WATERS <input type="checkbox"/> WETLANDS
GENERAL*	<input checked="" type="checkbox"/> WATERS <input checked="" type="checkbox"/> WETLANDS
INDIVIDUAL (404)*	<input type="checkbox"/> WATERS <input type="checkbox"/> WETLANDS
STORMWATER PERMIT <input checked="" type="checkbox"/>	
Y REQUIRED, CND SUBMITTED BY MDOT (CERTIFIED AREA = 9 ACRES)	
S REQUIRED, SCND TO BE SUBMITTED BY CONTRACTOR (10.439 ACRES)	
N NO STORMWATER PERMIT REQUIRED (<1 ACRE)	
APPROVED BY: _____	

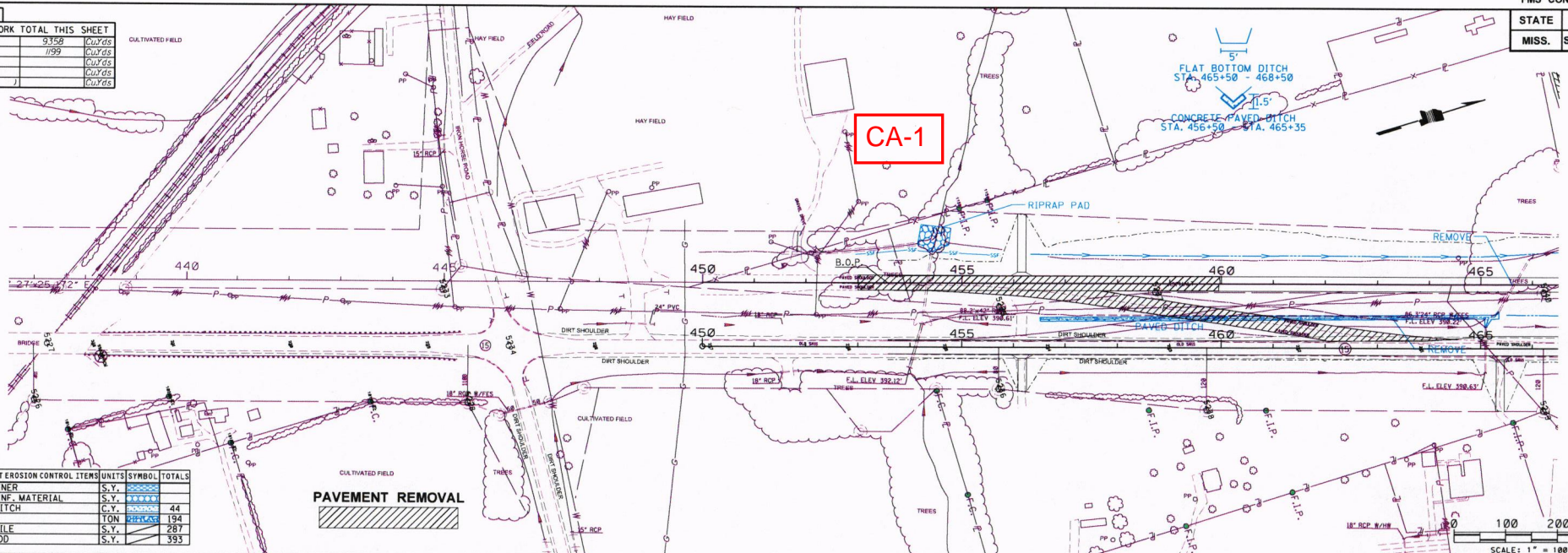
P S & E DATE: 8/31/2021

APPROVED:	DEPUTY EXECUTIVE DIRECTOR / CHIEF ENGINEER
EXECUTIVE DIRECTOR	
MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION	

STP-0022-04(040)

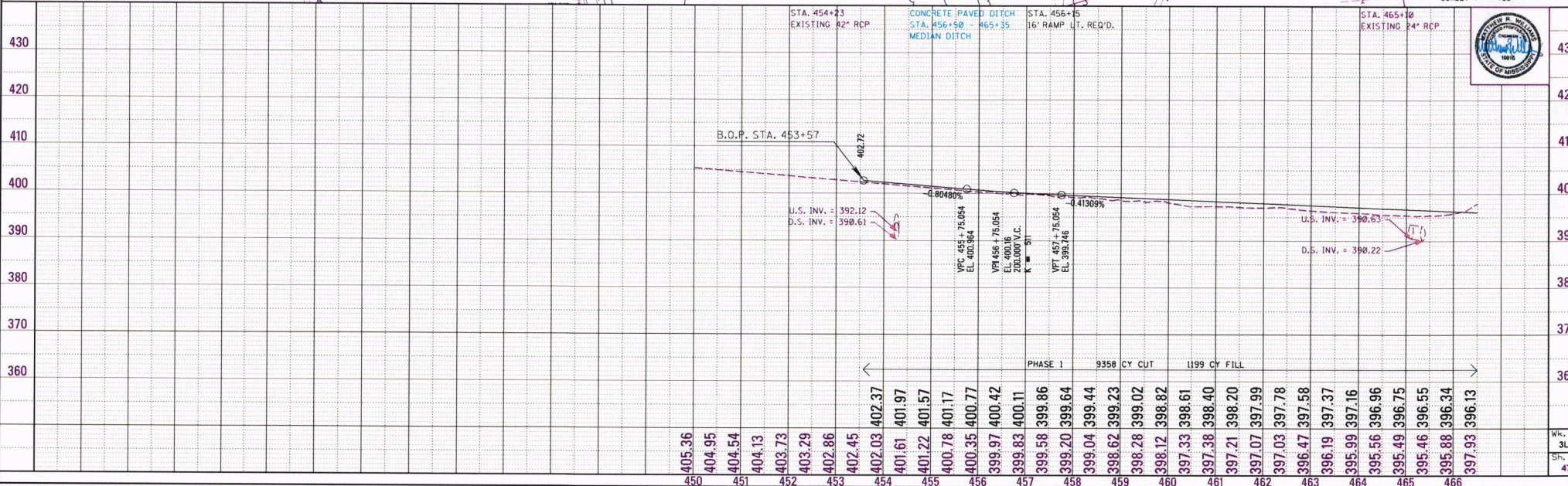
UNION COUNTY 1

PHASE 1 EARTHWORK TOTAL THIS SHEET		
Cut	9358	Cu Yds
Fill	1199	CU Yds
Excess		CU Yds
Surplus		CU Yds
Borrow		CU Yds



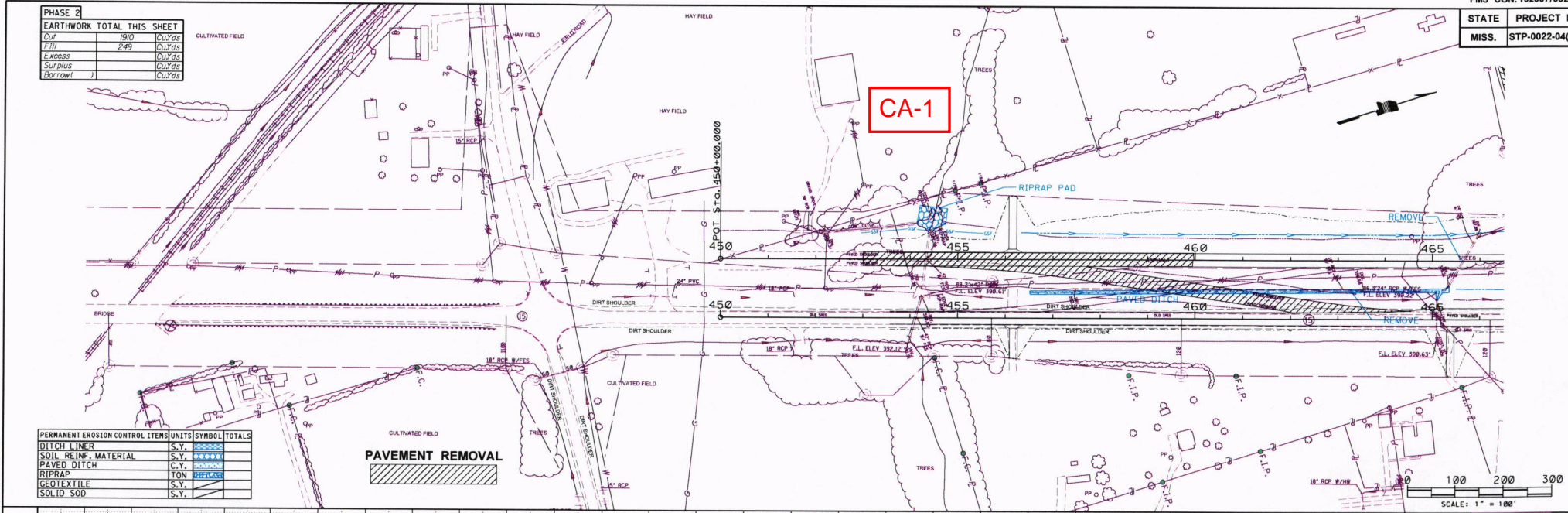
PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.		44
SOIL REIN. MATERIAL	S.Y.		44
PAVED DITCH	C.Y.		44
RIPRAP	TON		194
GEOTEXTILE	S.Y.		287
SOLID 500	S.Y.		393

PAVEMENT REMOVAL



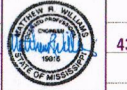
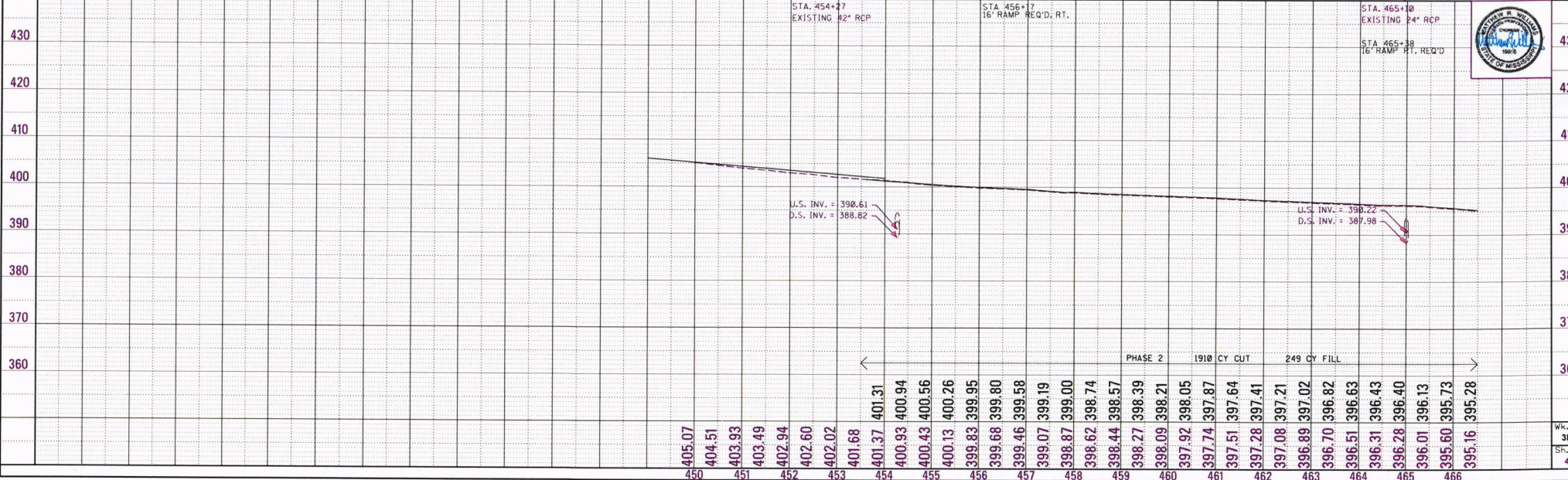
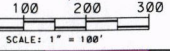
7/28/2021 10:58:46 PM WK-3LT.DGN

PHASE 2		
EARTHWORK TOTAL THIS SHEET		
Cut	1910	CuYds
Fill	249	CuYds
Excess		CuYds
Surplus		CuYds
Borrow		CuYds



PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.	[Symbol]	
SOIL REINF. MATERIAL	S.Y.	[Symbol]	
PAVED DITCH	C.Y.	[Symbol]	
RIPRAP	TON	[Symbol]	
GEOTEXTILE	S.Y.	[Symbol]	
SOLID SOD	S.Y.	[Symbol]	

PAVEMENT REMOVAL



7/28/2021 10:58:52 PMWK-3RT.dgn

REVISIONS	DATE	BY

UPDATED IMPAIRED WATER BODY BLOCK

1st O.REV.

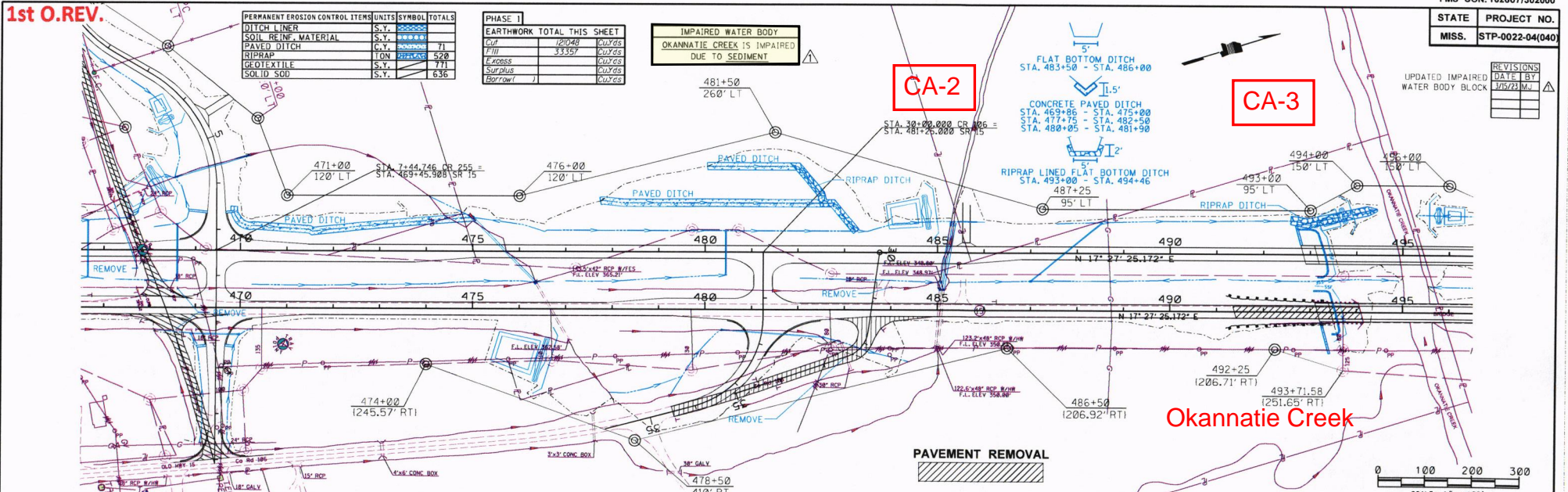
PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.	XXXXXX	
SOIL REINF. MATERIAL	S.Y.	XXXXXX	
PAVED DITCH	S.Y.	XXXXXX	
RIPRAP	TON	XXXXXX	
GEOTEXTILE	S.Y.	XXXXXX	
SOLID SOD	S.Y.	XXXXXX	

PHASE 1	
EARTHWORK TOTAL THIS SHEET	
Cut	121048 CU YDS
Fill	33357 CU YDS
Excross	CU YDS
Surplus	CU YDS
Subflow	CU YDS

IMPAIRED WATER BODY
OKANNATIE CREEK IS IMPAIRED
DUE TO SEDIMENT

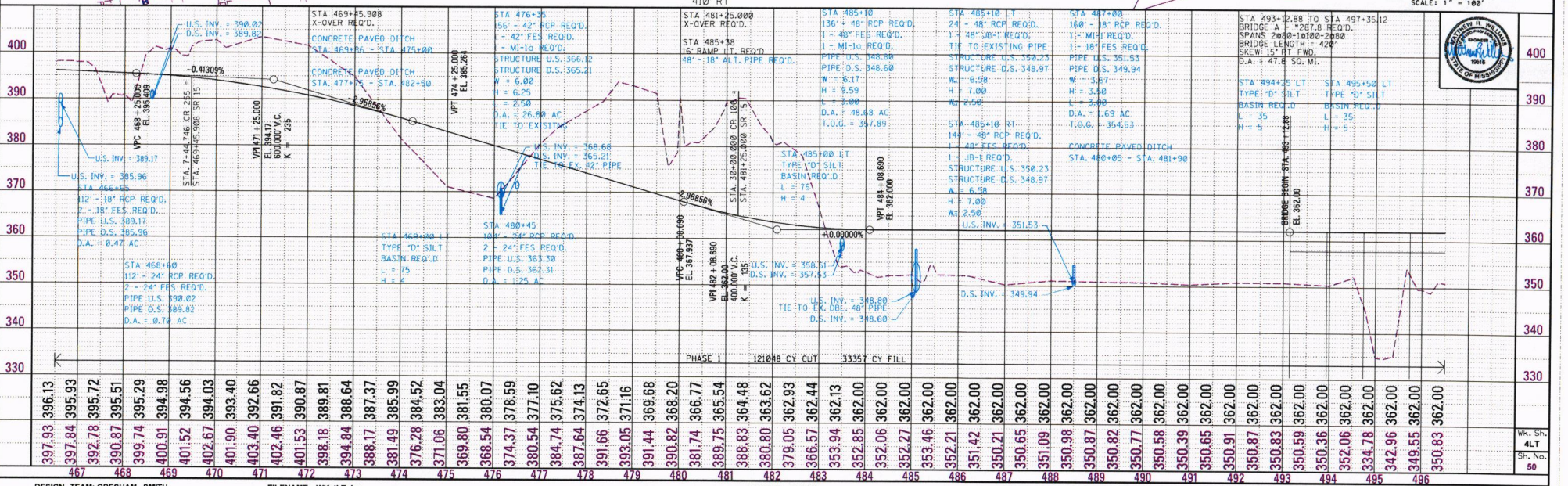
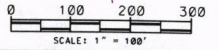
CA-2

CA-3



Okannatie Creek

PAVEMENT REMOVAL



REVISONS	DATE BY
3/25/21	JM

UPDATED IMPAIRED WATER BODY BLOCK

1st O.REV.

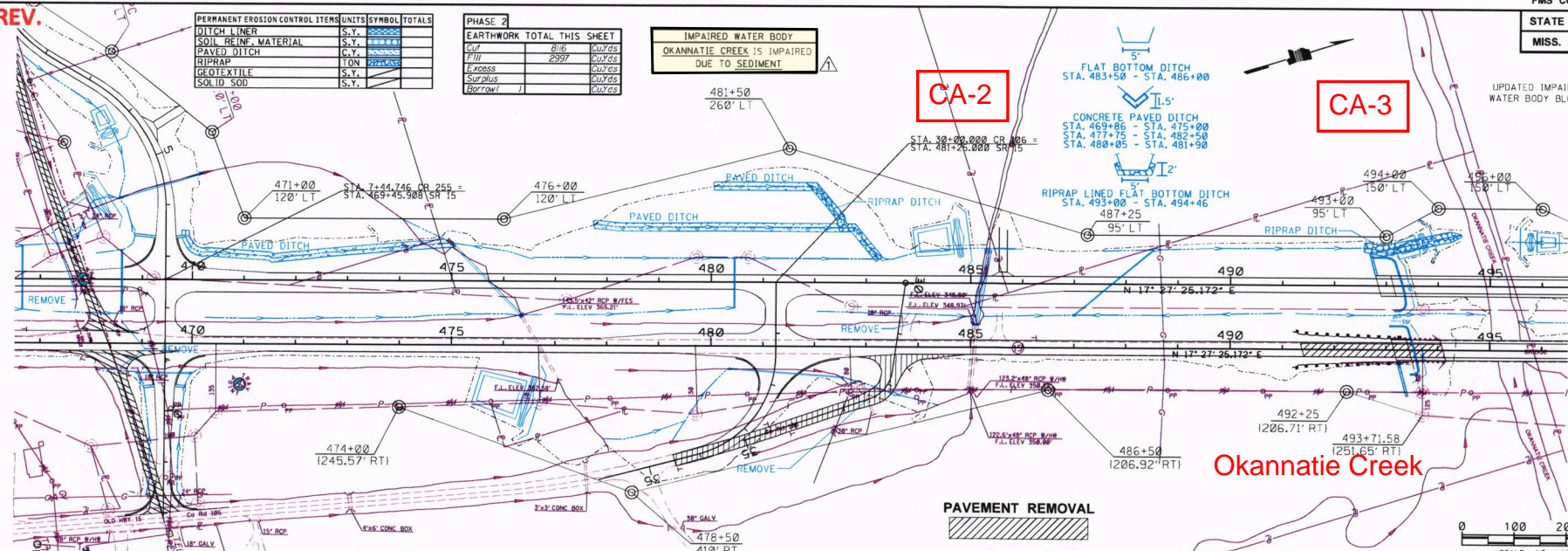
PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.	■■■■■	
SOIL REINF. MATERIAL	S.Y.	■■■■■	
PAVED DITCH	C.Y.	■■■■■	
RIPRAP	TON	■■■■■	
GEOTEXTILE	S.Y.	■■■■■	
SOLID SOD	S.Y.	■■■■■	

PHASE 2 EARTHWORK TOTAL THIS SHEET		
Cut	8116	CY CUT
Fill	2997	CY FILL
Excross		CY CUTS
Surplus		CY CUTS
Spw/ovr		CY CUTS

IMPAIRED WATER BODY
OKANNATIE CREEK IS IMPAIRED DUE TO SEDIMENT

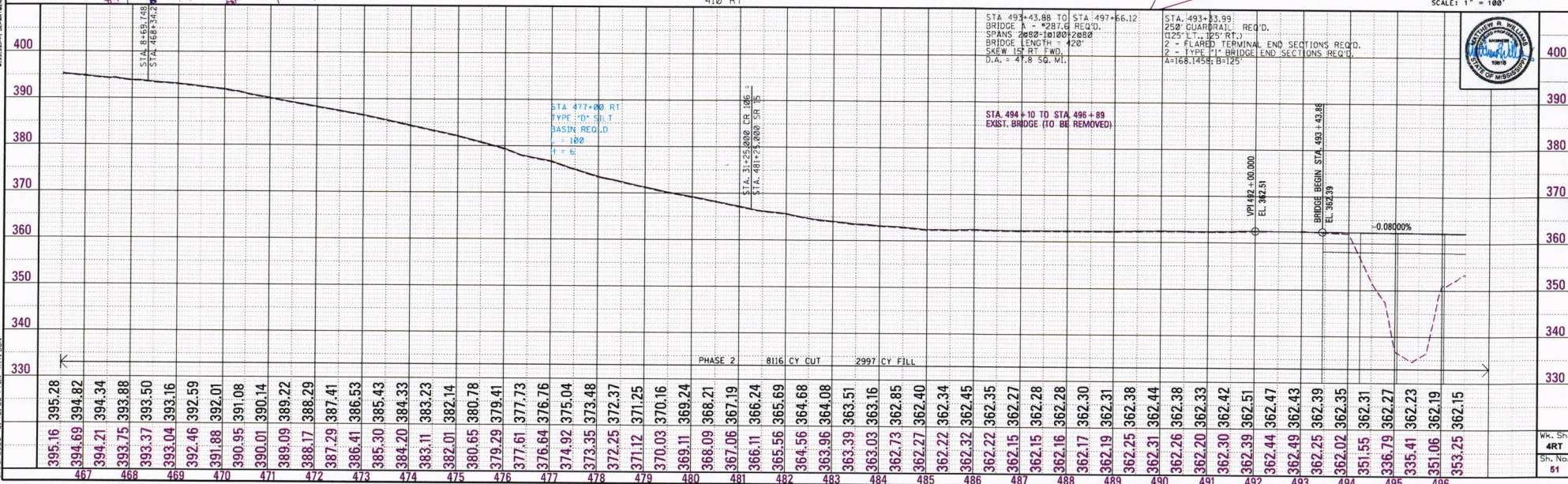
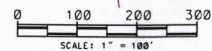
CA-2

CA-3



PAVEMENT REMOVAL

Okannatie Creek



STA 493+43.88 TO STA 497+66.12
BRIDGE 1 - 230' QUADRAIL REQ'D.
SPANS 2@80-1@100-1@80
BRIDGE LENGTH = 420'
SKEN 15' RT FWD.
D.A. = 47.8 SQ. WL.

STA 493+33.99
250' QUADRAIL REQ'D.
(125' L - 125' RT)
2 - FLARED TERMINAL END SECTIONS REQ'D.
2 - 150' L BRIDGE END SECTIONS REQ'D.
A=168.145; B=125

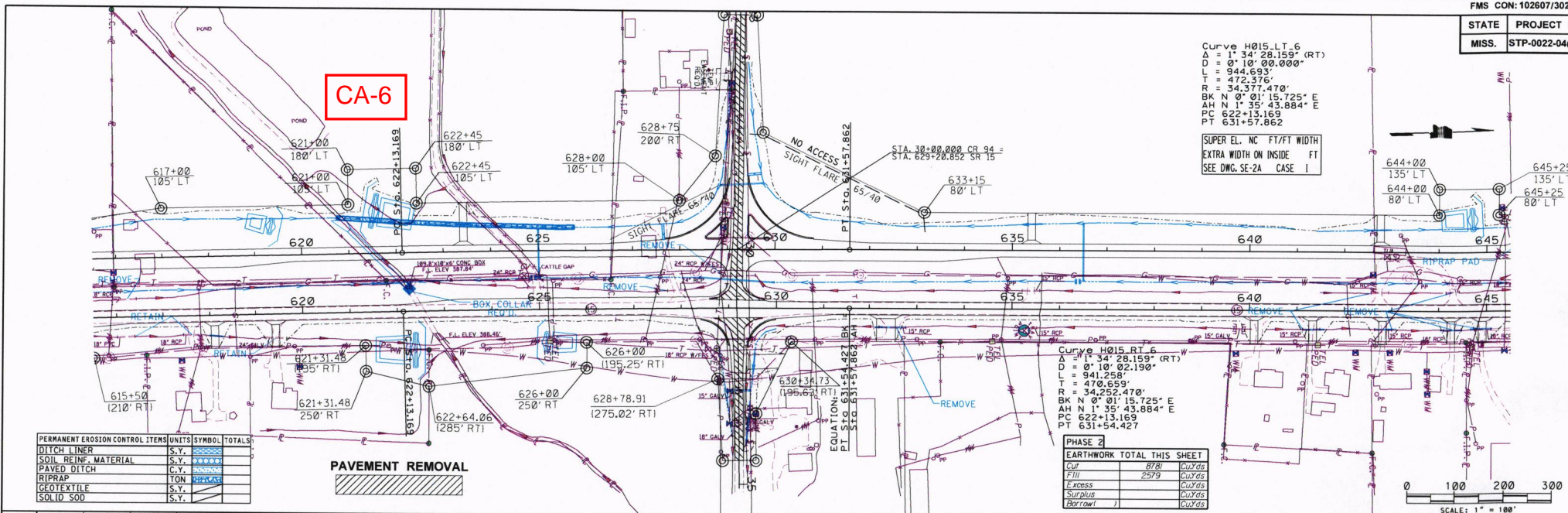


PHASE 2 8116 CY CUT 2997 CY FILL

CA-6

Curve H015.LT.6
 $\Delta = 1^\circ 34' 28.159''$ (RT)
 $D = 0^\circ 10' 00.000''$
 $L = 944.653'$
 $T = 472.376'$
 $R = 34,377.470'$
 $BK N 0^\circ 01' 15.725'' E$
 $AH N 1^\circ 35' 43.884'' E$
 $PC 622+13.169$
 $PT 631+57.862$

SUPER EL. NC FT/FT WIDTH
 EXTRA WIDTH ON INSIDE FT
 SEE DWG. SE-2A CASE I

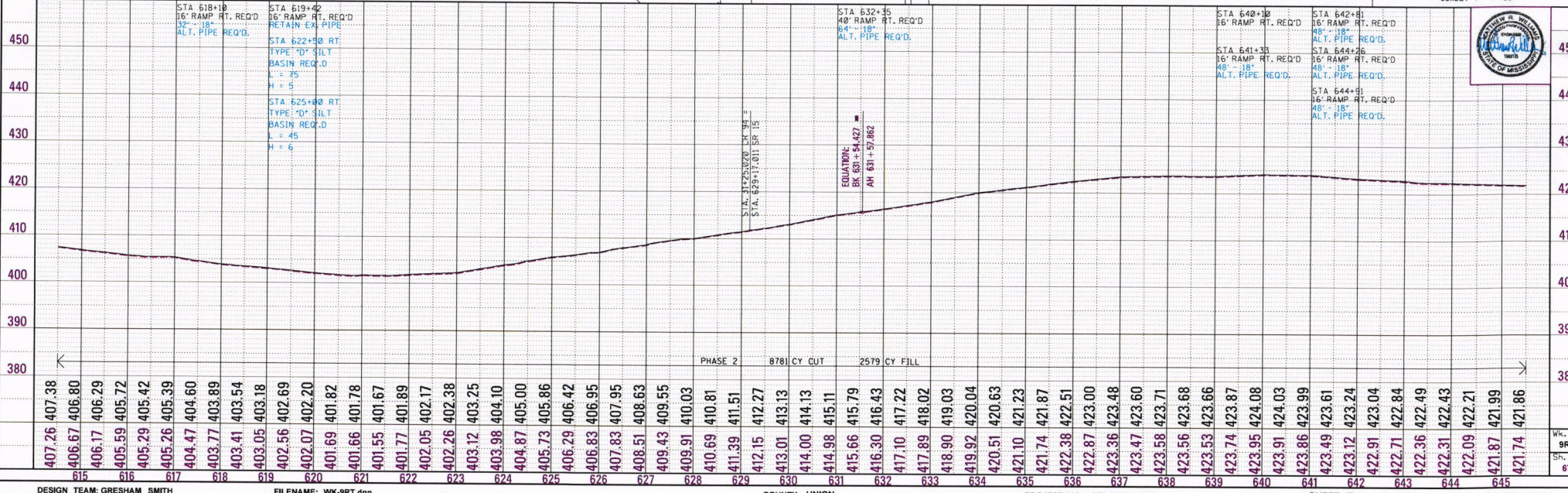
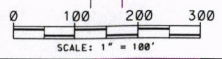


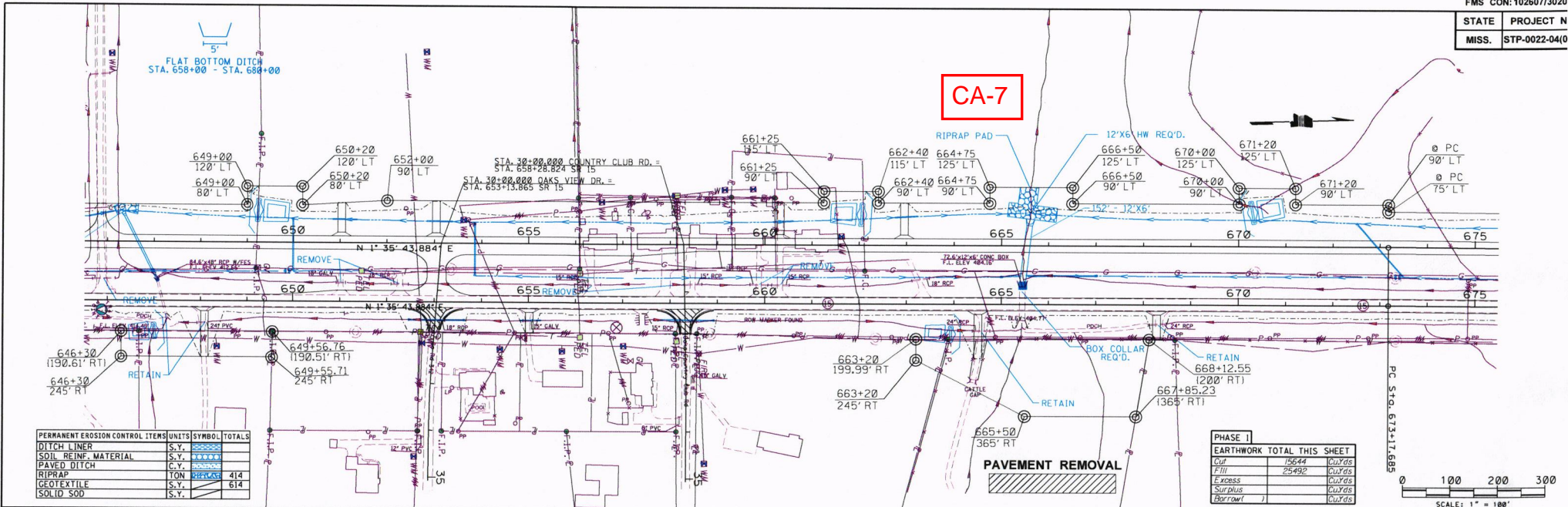
PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.		
SOIL REINF. MATERIAL	S.Y.		
PAVED DITCH	C.Y.		
RIPRAP	TON		
GEOTEXTILE	S.Y.		
SOLID SOD	S.Y.		

PAVEMENT REMOVAL

Curve H015.RT.6
 $\Delta = 1^\circ 34' 28.159''$ (RT)
 $D = 0^\circ 10' 00.000''$
 $L = 941.258'$
 $T = 470.659'$
 $R = 34,252.470'$
 $BK N 0^\circ 01' 15.725'' E$
 $AH N 1^\circ 35' 43.884'' E$
 $PC 622+13.169$
 $PT 631+54.427$

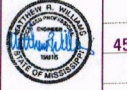
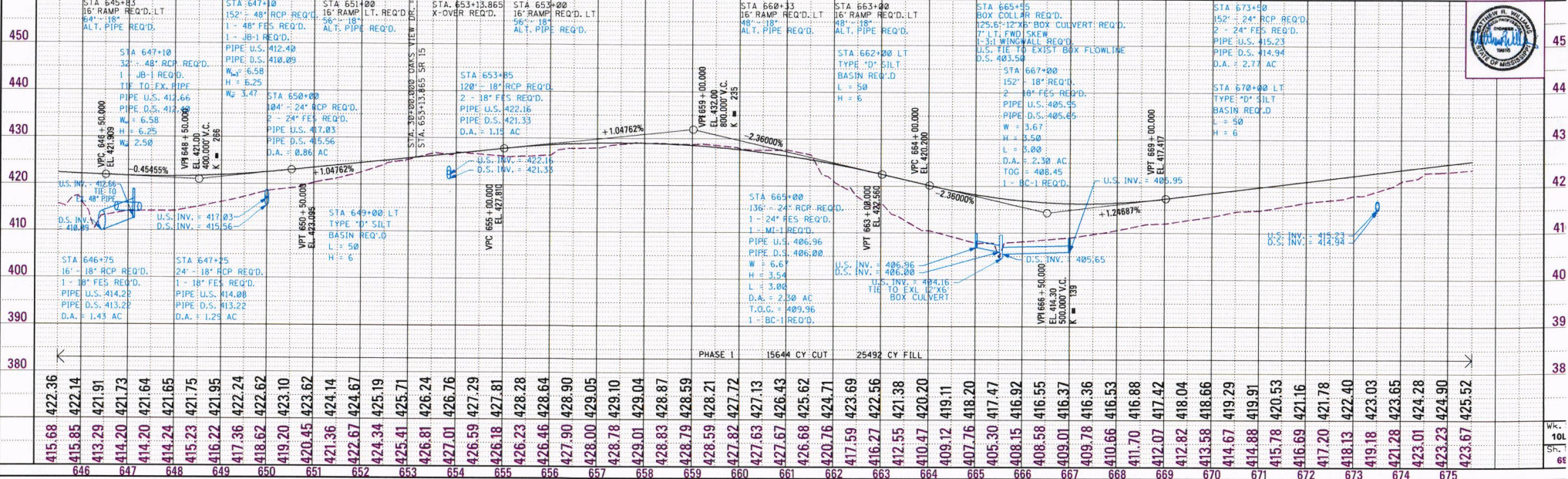
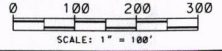
EARTHWORK TOTAL THIS SHEET		
Cut	8781	CY CUT
Fill	2579	CY FILL
Excess		CY EXCESS
Surplus		CY SURPLUS
Borrow		CY BORROW

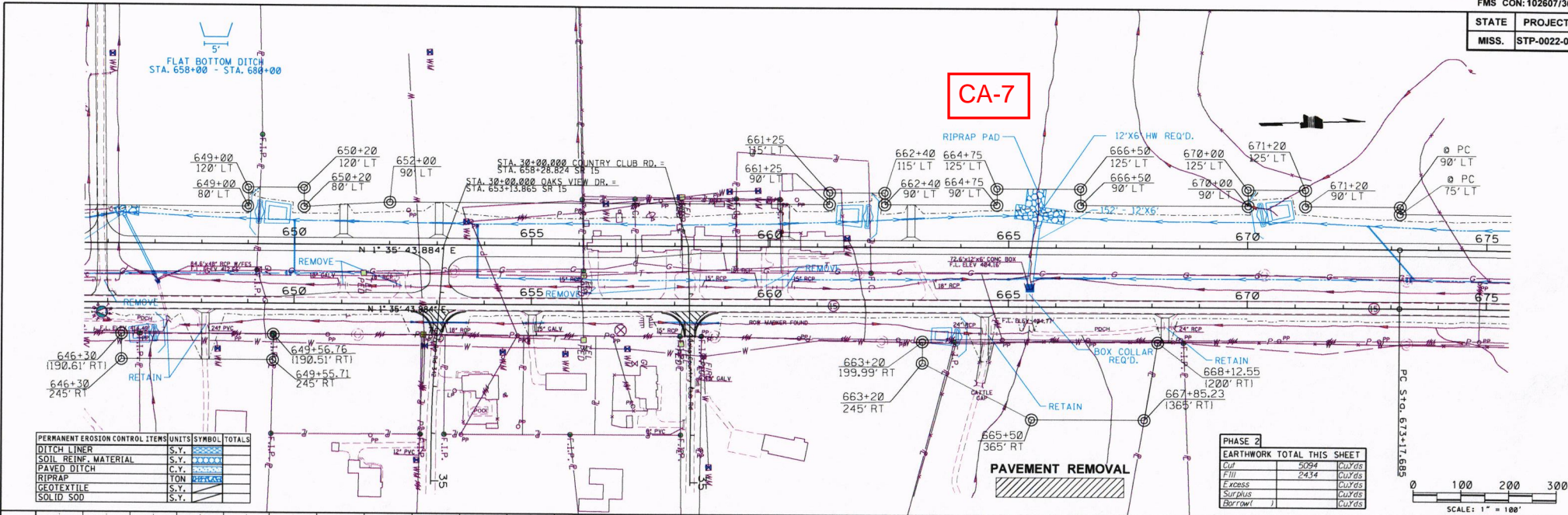




PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.		
SOIL REIN. MATERIAL	S.Y.		
PAVED DITCH	C.Y.		
RIPRAP	TON		414
GEOTEXTILE	S.Y.		614
SOLID 500	S.Y.		

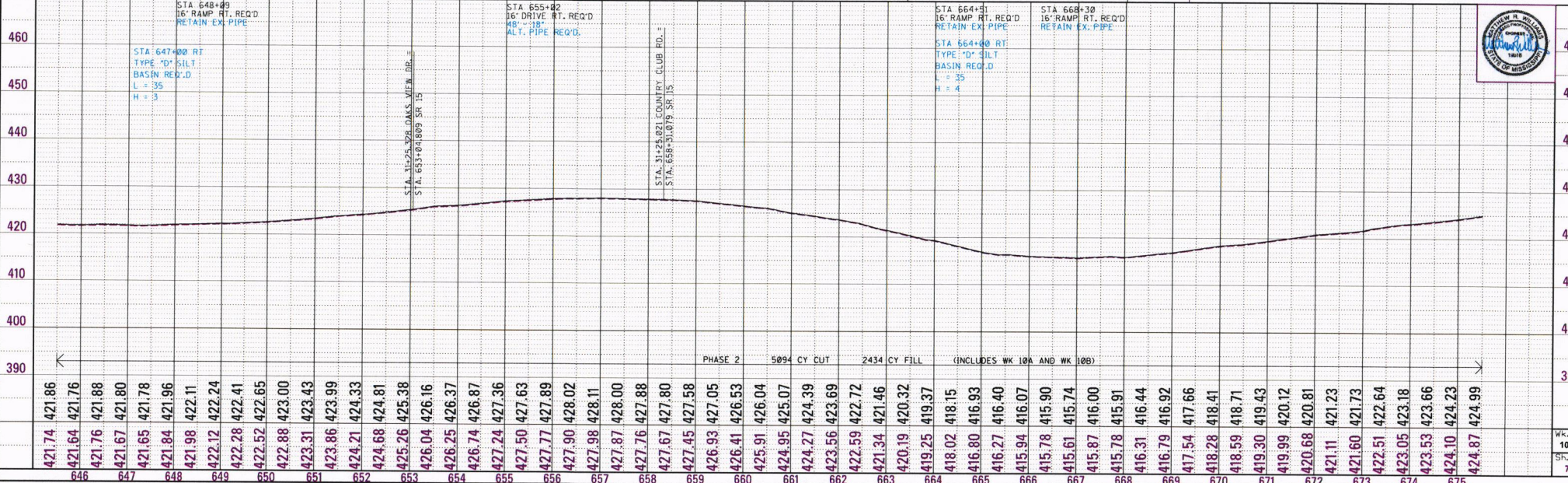
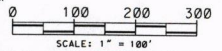
PHASE I	
EARTHWORK TOTAL THIS SHEET	
Cut	156.44 CuYds
Fill	2549.2 CuYds
Excess	
Surplus	
Borrow	





PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.	[Symbol]	
SOIL REIN. MATERIAL	S.Y.	[Symbol]	
PAVED DITCH	C.Y.	[Symbol]	
RIPRAP	TON	[Symbol]	
GEOTEXTILE	S.Y.	[Symbol]	
SOLID SOD	S.Y.	[Symbol]	

PHASE 2	
EARTHWORK TOTAL THIS SHEET	
Cut	5094 CuYds
Fill	2434 CuYds
Excess	
Surplus	
Borrow	



1st O.REV.

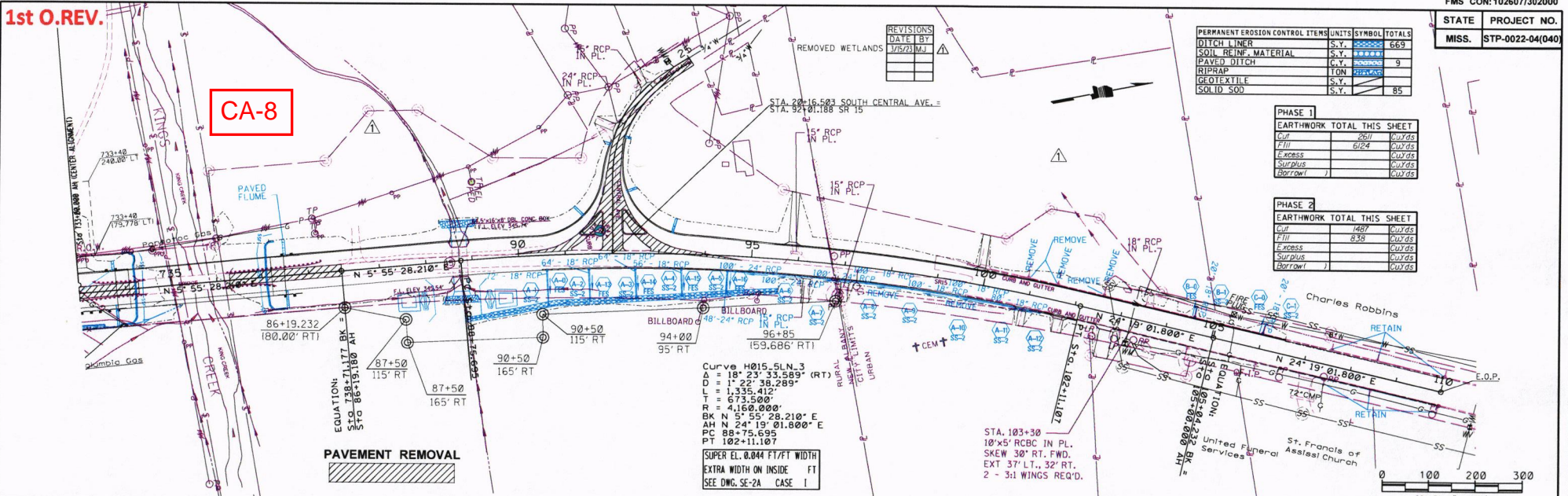
CA-8

REVISIONS	DATE	BY

PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.	659	659
SOIL REINF. MATERIAL	C.Y.	9	9
PAVED DITCH	TON	659	659
RIPPRAP	TON	659	659
GEOTEXTILE	S.Y.	85	85
SOLID SOD	S.Y.	85	85

PHASE 1	
EARTHWORK TOTAL THIS SHEET	
Cut	2611 CuYds
Fill	6124 CuYds
Excess	0 CuYds
Surplus	0 CuYds
Borrow	1 CuYds

PHASE 2	
EARTHWORK TOTAL THIS SHEET	
Cut	487 CuYds
Fill	838 CuYds
Excess	0 CuYds
Surplus	0 CuYds
Borrow	1 CuYds

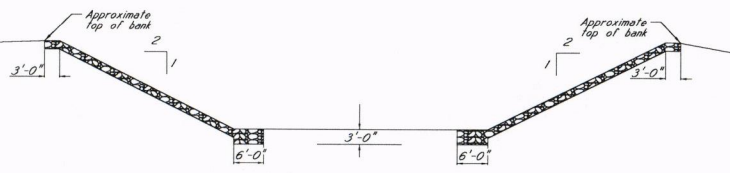
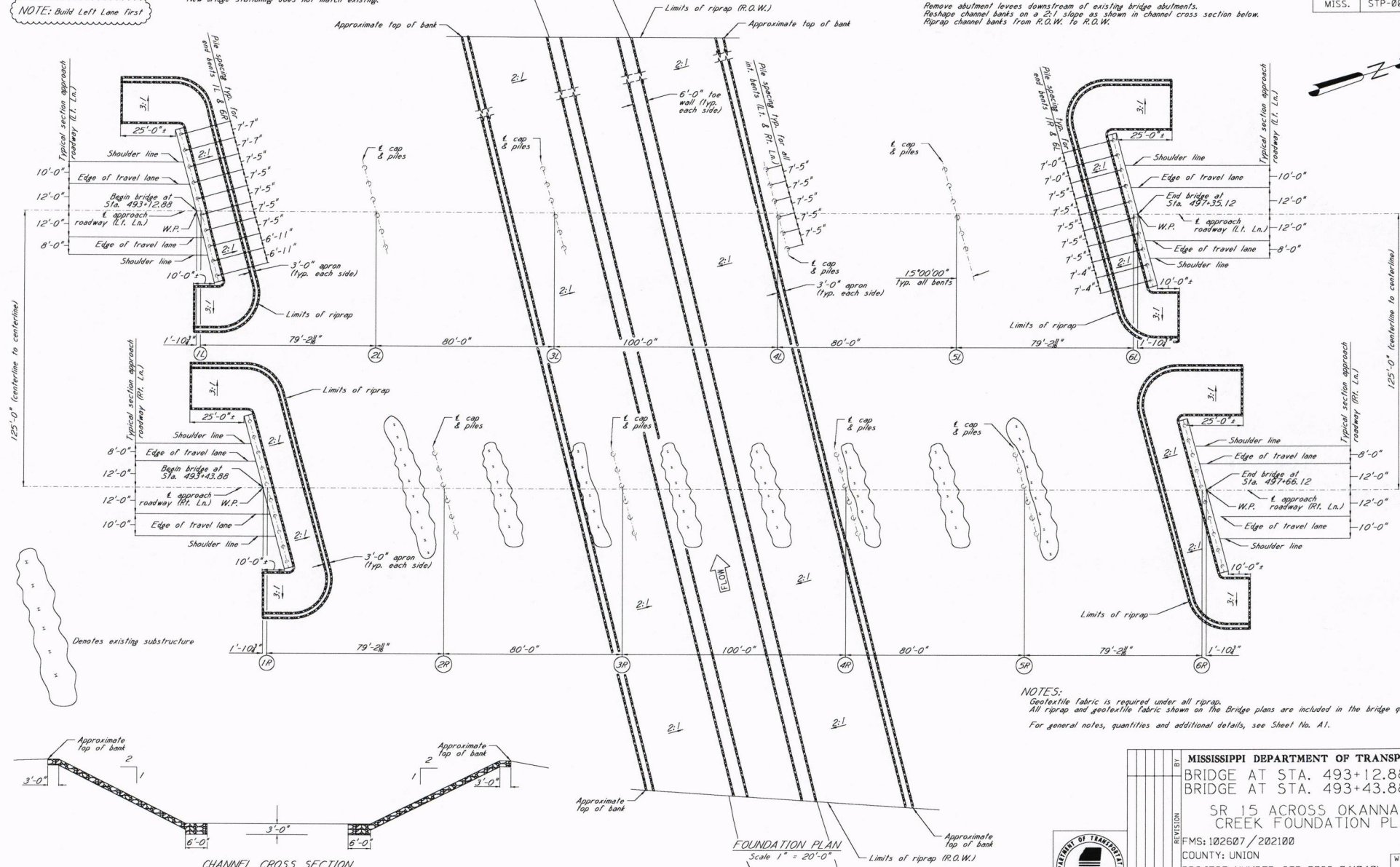


Station	390	380	370	360	350	340	330	320
733	357.99	357.88	358.40	358.40	358.40	358.40	358.40	358.40
734	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
735	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
736	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
737	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
738	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
739	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
740	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
741	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
742	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
743	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
744	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
745	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
746	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
747	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
748	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
749	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
750	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
751	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
752	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
753	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
754	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
755	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
756	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
757	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
758	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
759	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
760	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
761	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
762	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
763	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
764	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
765	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
766	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
767	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
768	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
769	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40
770	358.04	358.40	358.40	358.40	358.40	358.40	358.40	358.40

NOTE: Build Left Lane first

NOTE: New bridge stationing does not match existing.

NOTE: Remove abutment levees downstream of existing bridge abutments. Postshape channel banks on a 2:1 slope as shown in channel cross section below. Riprap channel banks from R.O.W. to R.O.W.



FOUNDATION PLAN
Scale 1" = 20'-0"

NOTES:
Geotextile fabric is required under all riprap.
All riprap and geotextile fabric shown on the Bridge plans are included in the bridge quantities.
For general notes, quantities and additional details, see Sheet No. A1.

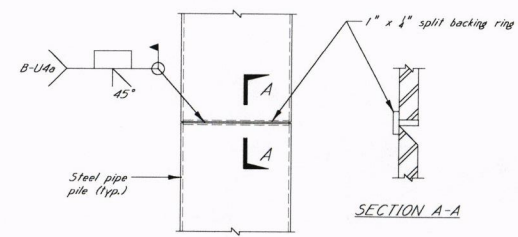
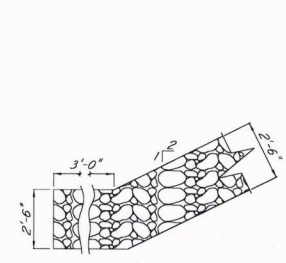
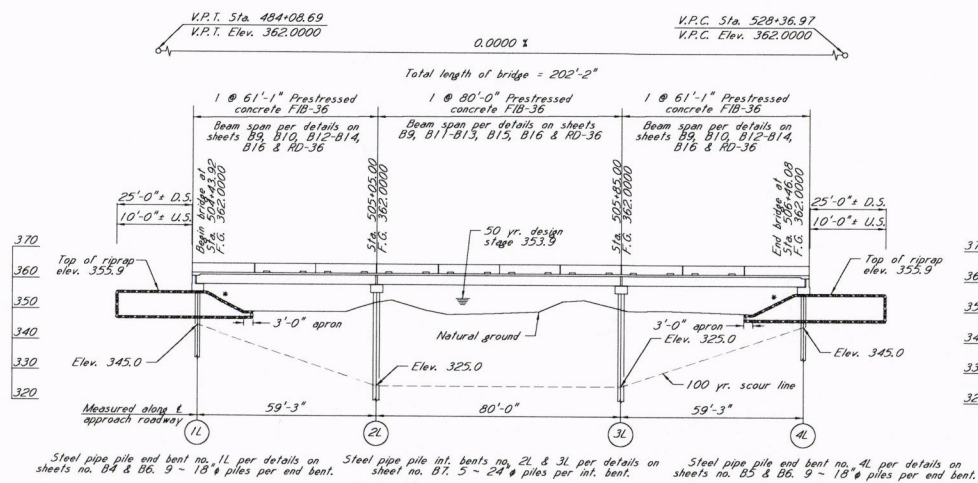
MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
BRIDGE AT STA. 493+12.88 L.T.L.	
BRIDGE AT STA. 493+43.88 R.T.L.	
SR 15 ACROSS OKANNATIE CREEK FOUNDATION PLAN	
FMS: 1022607 / 202100	
COUNTY: UNION	
PROJECT NUMBER: STP-0022-04(040)	
DESIGNER: JACI, INC.	CHECKER: ANDREW DINE
DATE: 05-08-2022	ISSUE DATE: 05-08-2022
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER: SCOTT WESTERFIELD, P.E.	
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER: MICHAEL DEW, P.E.	
WORKING NUMBER	A3 OF A2
SHEET NUMBER	8005



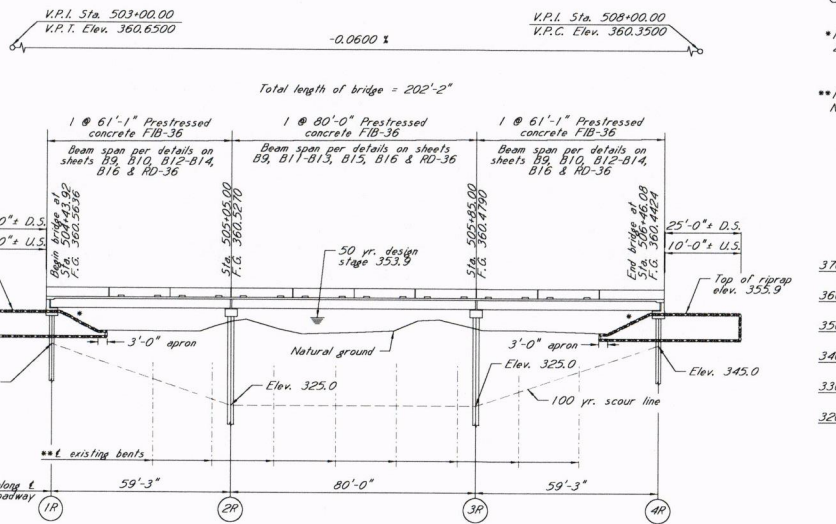
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

BRIDGE ENGINEER'S LICENSE

STATE	PROJECT NO.
MISS.	STP-0022-04(04)



ELEVATION WITH PROFILE ALONG \pm APPROACH ROADWAY LT. LN.
Scale: 1" = 20'-0"



Bent No.	Elevation
1L/1R	344.0
2L/2R	321.0
3L/3R	321.0
4L/4R	344.0

NOTE: Build Left Lane first

NOTE: 2:1 Slope Normal to End Bent

NOTE: Geotextile fabric is required under all riprap. All riprap and geotextile fabric shown on the bridge plans are included in the bridge quantities.

NOTE: New bridge stationing does not match existing.

DESIGN DATA:
Specifications A.A.S.H.T.O., LRFD 9th Edition, 2020
Loading HL-93
Roadway width 40'-0" gutter to gutter
Concrete Class "AA" (4,000 p.s.i.)
Class "BQ" (4,500 p.s.i.)
Stay-in-Place metal forms . . . 10lbs./ft² (between flanges)
Seismic Performance Zone . . . 1
Seismic Soil Site Class C
Seismic Operational Class . . . Other

NOTE: For general notes, quantities and additional details, see sheet no. B1

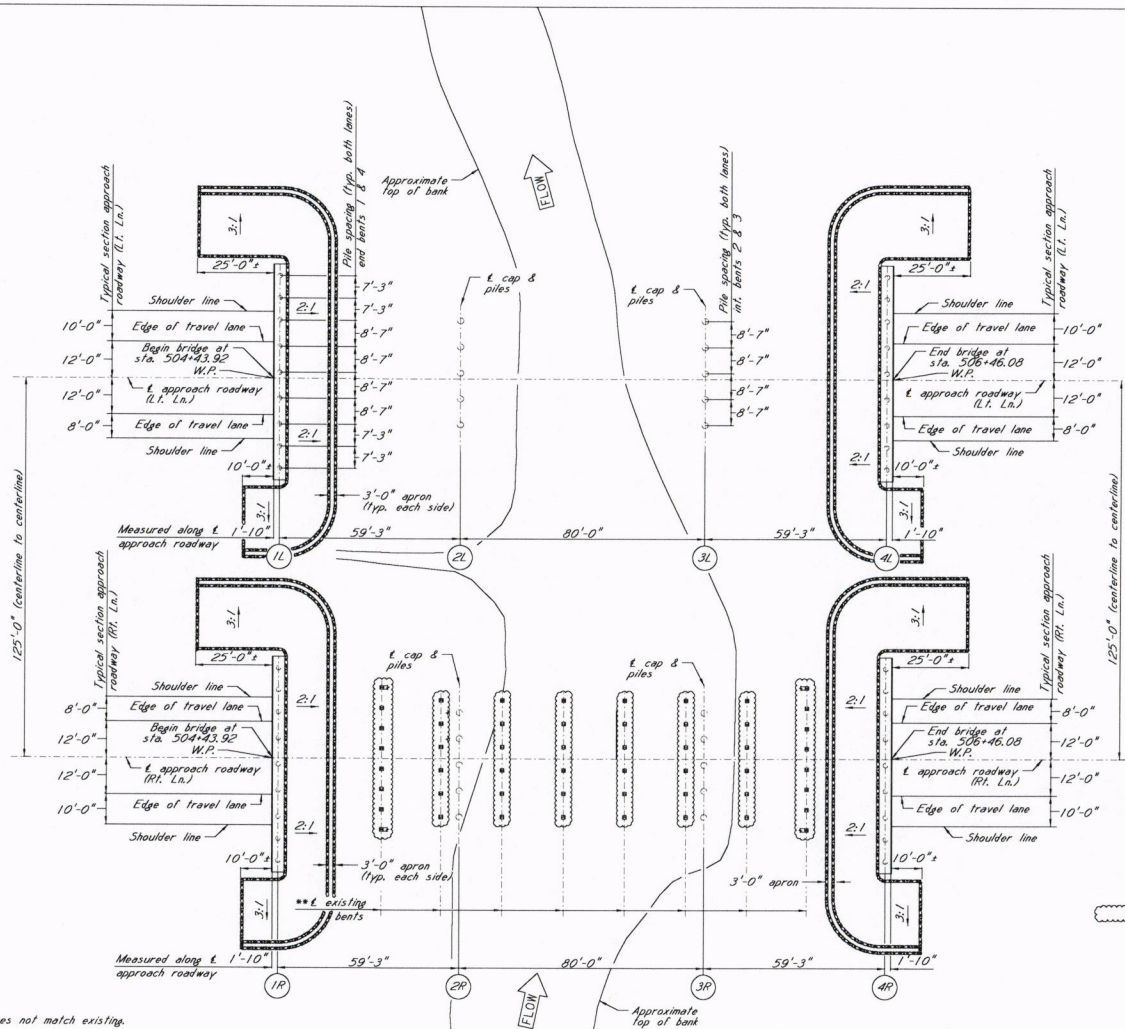
DRAINAGE DATA:
Drainage area Relief
CSD (U.S.G.S.) 3,758 c.f.s.
Effective area 904 sq. ft.



DATE	DESIGNER: Barratt, Germond	CHECKER: Jack McMillin	WORKING NUMBER
	DETAILER: Barratt, Germond	ISSUE DATE: 05-06-2022	B2 OF B1
DATE	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTFIELD, P.E. DEP. DIR. OF STRUCTURES, ASSIST. STATE BRIDGE ENGINEER - MCM DEW, P.E.		SHEET NUMBER
			8024

DESIGNED BY: J. W. BERRY, P.E., MISSISSIPPI DEPARTMENT OF TRANSPORTATION

BRI: BRAMPM; DCON: LENNAE



NOTE: Build Left Lane first

- Denotes existing substructure.

**NOTE:
New bridge stationing does not match existing.

NOTES:
Geotextile fabric is required under all riprap
All Riprap and Geotextile fabric shown on the
Bridge plans are included in the bridge quantities

FOUNDATION PLAN
Scale: 1" = 20'-0"

NOTE:
For general notes, quantities and additional details,
see sheet no. B1.

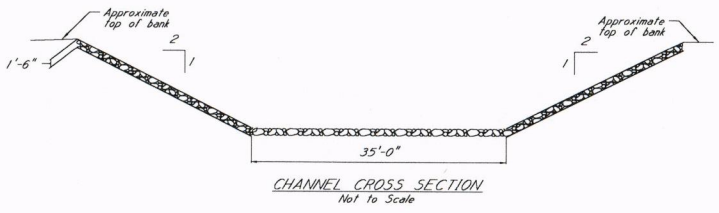
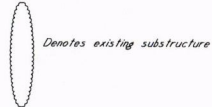
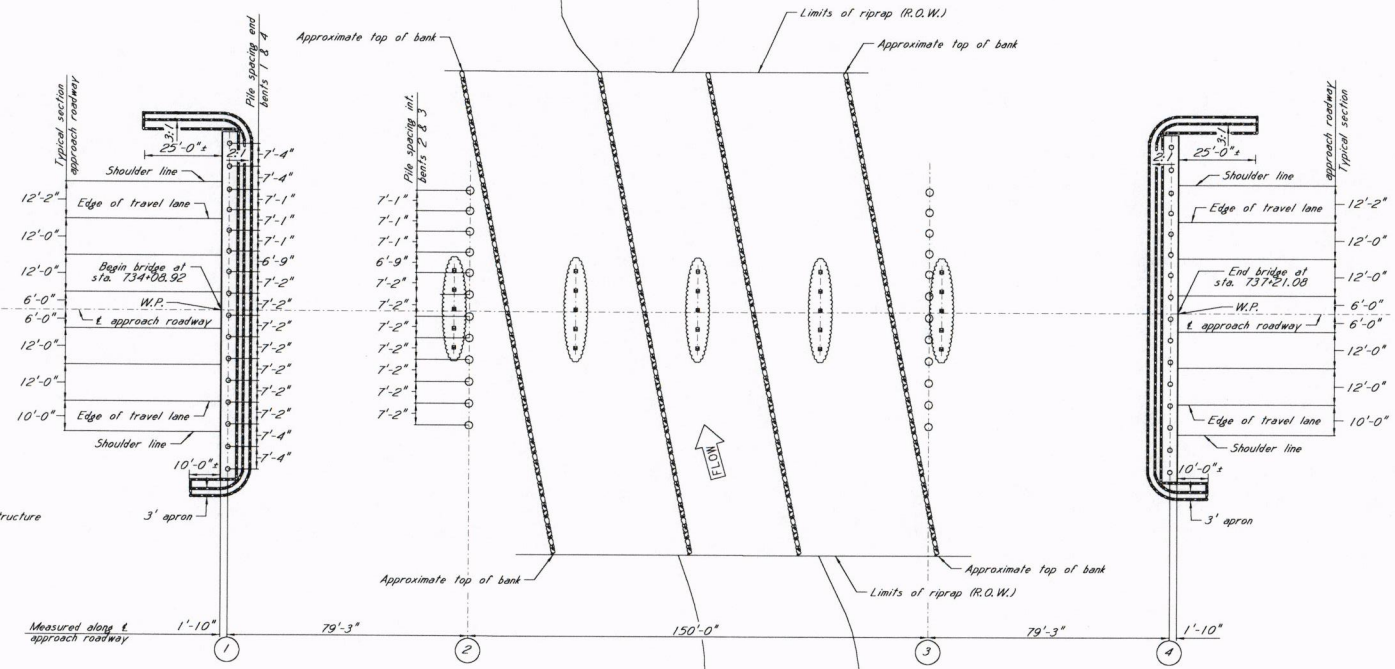


DATE	DESIGNER	CHECKER	ISSUE DATE	WORKING NUMB
	Barratt, Gernand	Jack McMillin	05-06-2002	B3 OF B1
	PROJECT NUMBER: STP-0022-04(040)			SHEET NUMBER
				8025

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 504+43.92 LT.L
BRIDGE AT STA. 504+43.92 RT.L
SR 15 ACROSS OKANNATIE CREEK
RELIEF FOUNDATION PLAN
FMS: 102607 / 302000
COUNTY: UNION

40333333 MISSISSIPPI DEPARTMENT OF TRANSPORTATION

BRIDGE ENGINEER



FOUNDATION PLAN
Scale: 1" = 20'-0"

NOTE:
New bridge stationing does not match existing.

NOTE:
Geotextile fabric is required under all riprap. All Riprap and Geotextile fabric shown on the Bridge plans are included in the bridge quantities.

NOTE:
For general notes, quantities and additional details, see sheet no. C1.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
BRIDGE AT STA. 734+08.92	
SR 15 OVER KING CREEK	
FOUNDATION PLAN	
FMS: 102607 / 302000	WORKING NUMBER
COUNTY: UNION	C3 OF C3
PROJECT NUMBER: STP-0022-04(04)	SHEET NUMBER
DESIGNER: Stephen Diaz	CHECKER: Gerrit Germond
DATE: 05-08-2002	ISSUE DATE: 05-08-2002
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERVELD, P.E.	
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - MICHAEL DEW, P.E.	
8041	



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

BRIDGE ENGINEER



**US Army Corps
of Engineers.**

Vicksburg District
4155 Clay Street
Vicksburg, MS 39183-3435
www.mvk.usace.army.mil

GENERAL PERMIT

FILE NO.: GENERAL PERMIT – 46
DATE: October 2, 2019
EXPIRES: October 2, 2024

FOR: REGULATED ACTIVITIES ASSOCIATED WITH THE DISCHARGE OF DREDGED OR FILL MATERIAL IN WATERS OF THE UNITED STATES AND/OR STRUCTURES OR WORK AFFECTING NAVIGABLE WATERS OF THE UNITED STATES ASSOCIATED WITH THE CONSTRUCTION AND STABILIZATION OF ROADWAY EMBANKMENTS AND BRIDGE ABUTMENTS

WHERE: THE STATE OF MISSISSIPPI

BY WHOM: DISTRICT ENGINEER, VICKSBURG DISTRICT, ON BEHALF OF THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION (MDOT)

The U.S. Army Corps of Engineers (USACE), Vicksburg District, is hereby reissuing a Department of the Army General Permit for the discharge of dredged or fill material in waters of the United States and/or structures or work affecting navigable waters of the United States associated with the construction and stabilization of roadway embankments and bridge abutments performed by or having oversight from MDOT within the State of Mississippi. This General Permit shall authorize activities such as the repair and stabilization of existing roadway embankments and bridge abutments; the installation of additional traffic lanes to existing roadways; the upgrading of bridges and other stream-crossing structures; and, construction along new alignments.

This action is being taken pursuant to Federal regulations printed in the Federal Register on November 13, 1986, concerning permits for activities in waters of the United States (U.S.). These regulations state the U.S. Army Corps of Engineers' responsibility for regulating structures or work in or affecting waters of the United States under Section 10 of the Rivers and Harbors Act of 1899 (30 Stat. 1151; 33 U.S.C. 403); and discharges of dredged and/or fill material into waters of the United States under Section 404 of the Clean Water Act (33 U.S.C. 1344).

An agreement was finalized between MDOT, the Federal Highway Administration

(FHWA), and the U.S. Army Corps of Engineers with concurrence from the appropriate Districts on December 12, 2008, which specifies that all MDOT projects within the State will be evaluated by the Vicksburg District. The address is USACE, Vicksburg District, ATTN: Regulatory Branch, 4155 Clay Street, Vicksburg, Mississippi 39183-3435.

Upon expiration of the agreement, since portions of the State are within jurisdictional boundaries of five United States Army Corps of Engineers Districts (enclosure 1), subsequent authorizations to proceed with work proposed under this General Permit will be granted by letter from the appropriate District within whose boundaries the work will be located. The MDOT will be notified of any changes to the agreement and furnished the mailing address of each district.

This General Permit contains certain limitations intended to protect the environment and natural and cultural resources. Conformance with conditions contained in the General Permit does not necessarily guarantee authorization under this General Permit. In cases where the District Engineer considers it necessary, an application will be required for an individual permit.

Regulated construction, dredging, or fill operations not specifically covered by this General Permit are prohibited unless authorized by a separate permit.

General Permits may be issued for a category or categories of activities when: (1) those activities are substantially similar in nature and cause only minimal individual and cumulative environmental impacts; or (2) the General Permit would result in avoiding unnecessary duplication of the regulatory control exercised by another Federal, State, or local agency, provided it has been determined that the environmental consequences of the actions are individually and cumulatively minimal. The determination that the proposed activities comply with the requirements for the issuance of General Permits was made using information which is available for inspection at the office of the Vicksburg District's Regulatory Branch at 4155 Clay Street, Vicksburg, Mississippi.

In compliance with requirements of Section 401 of the Clean Water Act, the Vicksburg District has obtained water quality certification from the Mississippi Department of Environmental Quality (enclosure 2).

The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the U.S. to the maximum extent practicable at the project site (i.e., on site). Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal.

In order to compensate for any unavoidable losses of functions of jurisdictional waters of the United States associated with the work authorized by this General Permit; the Mississippi Department of Transportation shall develop a compensatory mitigation plan. The compensatory mitigation plan will be fully described in accordance with 33 CFR

Parts 325 and 332, Compensatory Mitigation for Losses of Aquatic Resources; Final Rule, April 2008.

REQUEST FOR AUTHORIZATION UNDER THE GENERAL PERMIT: IN ORDER TO BE AUTHORIZED BY THIS GENERAL PERMIT, THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION ARE REQUIRED TO SUBMIT TO THE DISTRICT ENGINEER, IN WRITING, THE FOLLOWING INFORMATION A MINIMUM OF 60 DAYS PRIOR TO THE PROPOSED BID ADVERTISEMENT DATE:

a. Statement that the work will be conducted in compliance with the terms and conditions of General Permit 46, will not adversely impact adjoining properties, and will be mitigated for in accordance with the terms of this General Permit.

b. A location map showing the proposed worksite (including Section, Township, Range, and County).

c. A brief description of the proposed worksite in its present condition.

d. For the selected site, a full set of construction plans (including quantities and types of any fill and quantities of any excavation), maps, and engineering drawings for the proposed activity at that site. These shall include a map of sufficient scale that illustrates an "overlay" of the proposed construction/development activity (e.g. construction roads, ditches, parking areas, lay-down pads, temporary work areas, remaining natural areas, etc.) on jurisdictional waters of the U.S.

e. The estimated starting and completion dates of the proposed construction.

f. Name, mailing address, telephone number, and email address, of the person acting as the point of contact for the requested authorization.

g. If wetlands or other waters of the U.S. are to be impacted, the following information is required:

(1) A map delineating the wetlands and other waters of the U.S. and copies of the associated data form(s) for routine wetland determinations from the 1987 Corps of Engineers Wetland Delineation Manual and its subsequent Regional Supplement Manual(s) covering the proposed project area(s).

(2) The type and date of approval of the NEPA documentation by the FHWA and a copy of their findings as required by Executive Order 11990.

h. A discussion of how adverse impacts to waters of the U.S. from the proposed activity will be avoided and minimized to the maximum extent practicable at the construction site.

i. If the loss or conversion to waters of the United States at a single and complete project site exceeds 0.1 acre, the application shall include a compensatory mitigation plan based on an approved wetland functional assessment methodology. Such recommendations should include copies of all factual information (e.g. worksheets) used in performing the calculations of the functional assessment. (Note: The District Engineer will consider this recommendation, however, the District Engineer retains discretionary authority in making the final decision on compensatory mitigation measures).

j. If impacts to a natural waterway at a single and complete project site exceed 100 linear feet, MDOT shall include a compensatory mitigation plan based on an approved stream functional assessment methodology. Such recommendations shall include copies of all factual information (e.g. worksheets) used in performing the calculations of the functional assessment. (Note: The District Engineer will consider this recommendation, however, the District Engineer retains discretionary authority in making the final decision on compensatory mitigation measures).

k. Comments from the Mississippi Department of Wildlife, Fisheries and Parks, Mississippi Department of Archives and History (including the results of any National Historic Preservation Act, Section 106, consultation actions), United States Fish and Wildlife Service (including the results of any Endangered Species Act, Section 7, consultation actions), and the Mississippi Department of Environmental Quality on the project.

l. Concurrence in writing from the Mississippi Department of Marine Resources (related to the Coastal Zone Management Act) and the National Marine Fisheries Service (including the results of any Magnuson-Steven Fisheries Conservation and Management Act, essential fish habitat consultation actions), if the project is located in Hancock, Harrison, or Jackson County, Mississippi. (See Special Condition h. below).

Upon receipt of this information, the District Engineer will: advise MDOT, in writing, either that the work will be evaluated for authorization under the General Permit 46; will request additional information, if needed; or will advise MDOT that the proposed activity will be evaluated as an individual permit.

Special Conditions:

a. No more than 7 acres of wetlands and other waters shall be directly impacted by the placement of fill at each single and complete crossing of a water of the United States where the proposed work involves either upgrading an existing highway within an established corridor or where the work is to be constructed along a new alignment. Any wetlands cut off from their natural hydrologic regime as a result of project work would be considered as directly impacted.

b. For stream or river crossings, discharges of permanent fill material and temporary

fill material shall be the minimum necessary to complete the crossing. The term fill refers to earthen material, riprap, concrete, and any other materials associated with the work.

c. The stabilization or construction work shall not interfere with navigation (including recreational boating) or adversely impact the flow-carrying capacity of the affected waterbody.

d. Material to be used for fill must be nonpolluting and may be obtained either offsite or from site preparation. Offsite material shall not be obtained from wetlands outside the 7-acre limit or from other areas which may adversely affect adjacent wetlands. Any excess material shall be placed in an upland area and properly contained or stabilized to prevent entry into adjacent water-bodies or wetlands.

e. Disturbed areas on the site shall be stabilized to minimize erosion. Stabilization of erodible areas shall be accomplished by seeding or sodding as soon as practicable to restore vegetative cover. If initial re-vegetation is unsuccessful, the area shall be reseeded or re-sodded until re-vegetation is successful. In areas subject to currents, riprap may be required for slope protection.

f. No activity that has the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places, or a site that has previously been unevaluated, shall be authorized by this General Permit until the requirements of Section 106 of the National Historic Preservation Act have been satisfied. Additional fill material should not be taken from a known historical or archaeological site within or outside of regulated areas. If the permittee, during prosecution of work authorized herein, inadvertently discovers or accidentally destroys a cultural resource such as a cemetery, shipwreck, mound, historic structure, or archaeological site, within the area subject to Department of the Army jurisdiction, they must cease work in the immediate area and notify the District Engineer within 24 hours. The District Engineer, in consultation with the appropriate State Historic Preservation Officer and the Federally recognized Tribe, shall comply with the procedures set forth in 33 CFR 325, Appendix C, paragraph 11 (Historic Properties Discovered During Construction).

g. The work shall not occur in a National Wildlife Refuge, State Game Management Area, or other such Federal or State lands, or lands leased to those entities without the appropriate Federal or State authorization in writing.

h. For work within the Mississippi Coastal Zone Management Area, including all areas below Interstate I-10, a set of complete plans shall be sent to the three agencies listed below for review and/or approval as appropriate. Comments and concurrence resulting from this coordination should be submitted with the request for authorization under this General Permit.

1. The Mississippi Department of Marine Resources
1141 Bayview Avenue
Suite 101
Biloxi, Mississippi 39530

2. National Marine Fisheries Service
Southeast Regional Office
Protected Resources
Attention: Ms. Karla Reece
263 13th Ave. S.
St. Petersburg, Florida 33701
Email: Karla.reece@noaa.gov

3. National Marine Fisheries Service
Room 266, Military Science Building
Attention: Mr. Brandon Howard
South Stadium Drive
La. State University
Baton Rouge, Louisiana 70803-7535

i. All temporary fills must consist of non-erodible material or be protected to prevent erosion.

j. Any materials used for temporary structures such as cofferdams, equipment pads, or temporary crossings, shall be removed as soon as practicable, and the waterway should be restored to preconstruction contours.

k. Disturbance to riparian vegetation shall be kept to a minimum during construction.

l. No activity shall be authorized under this General Permit which is likely to directly or indirectly jeopardize the continued existence of a Federally-listed threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will likely directly or indirectly destroy or adversely modify the critical habitat of such species. No activity shall be authorized under this General Permit which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed. No activity shall be authorized under this General Permit which "may affect" essential fish habitat as identified under Magnuson-Stevens Fishery Conservation and Management Act, unless essential fish habitat consultation addressing the effects of the proposed activity has been completed.

m. Discharges shall not restrict or impede the movement of aquatic species indigenous to the waters.

n. All work shall be performed in a manner that will minimize increased turbidity of the water in the project area and otherwise avoid adverse effects on water quality and aquatic life especially during fish spawning season. This may require avoiding construction activities during the peak spawning months of April, May, and June.

o. The discharge shall not adversely affect a public water supply intake or a National or State Fish Hatchery intake.

p. The discharge shall not contain unacceptable levels of pathogenic organisms (as prescribed in standards set by the Mississippi Department of Environmental Quality) in areas used for water-contact sports.

q. The construction activity shall not result in the permanent diversion or relocation of a stream or a river channel except where needed to align a waterway crossing to avoid potential damage to the roadway. In no case, should any realignment extend beyond 150 feet upstream and 150 feet downstream from the centerline of a crossing structure. The construction activity shall not result in stream flow impediment or drain adjacent wetlands.

r. Authorization under this General Permit is valid until the General Permit expires. Activities authorized under this General Permit which are under construction, or that are under contract to commence by the expiration of this General Permit, will remain authorized provided the activity is completed within 12 months of the date of expiration.

s. Current standards and practices shall be used to determine what type drainage structure is required at a particular stream crossing (box culvert, bridge, etc.).

t. To minimize potential adverse impacts to wetlands within the right-of-way or associated with the project, the Mississippi Department of Transportation shall incorporate into each project's design all practicable measures to:

- (1) Minimize impact on hydrology in wetland areas.
- (2) Minimize potential for toxic spills and leaching into wetland areas.
- (3) Minimize discharge of materials, such as silt, into wetlands.
- (4) Maintain adequate flow through wetlands by providing culverts, ditches, and other hydrologic structures.
- (5) Provide berms, traps, or ditches to direct potential toxic spills away from wetlands.
- (6) Provide for animal migration to and from wetland areas or habitat corridors.

(7) Provide erosion and sediment control features throughout the construction phase of a project which will minimize both short- and long-term impacts to water quality.

(8) Provide treatment facilities which may be required to treat highway runoff which would otherwise adversely affect wetlands.

(9) Provide contractual provisions for stopwork orders, project staging, and other specifications pertaining to minimizing impacts on wetlands and to onsite monitoring.

General Conditions:

a. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

b. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

c. This permit does not grant any property rights or exclusive privileges.

d. This permit does not authorize any injury to the property or rights of others.

e. This permit does not authorize interference with any existing or proposed Federal project.

f. In issuing this permit, the Federal Government does not assume any liability for the following:

(1) Damages to the permitted project, or uses thereof, as a result of other permitted or unpermitted activities or from natural causes.

(2) Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

(3) Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

(4) Design or construction deficiencies associated with the permitted work.

(5) Damage claims associated with any future modification, suspension, or revocation of this permit.

g. In issuing individual authorizations under this General Permit, the Government shall rely on the information and data which the permittee provides in connection with

the permit application. If, subsequent to the authorization, such information and data prove to be false, incomplete, or inaccurate, this authorization may be modified, suspended, or revoked, in whole or in part, and/or the Government may, in addition, institute appropriate legal proceedings.

h. This office may re-evaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

(1) Failure to comply with the terms and conditions of this permit.

(2) The information provided in support of a request for authorization proves to have been false, incomplete, or inaccurate (See g. above).

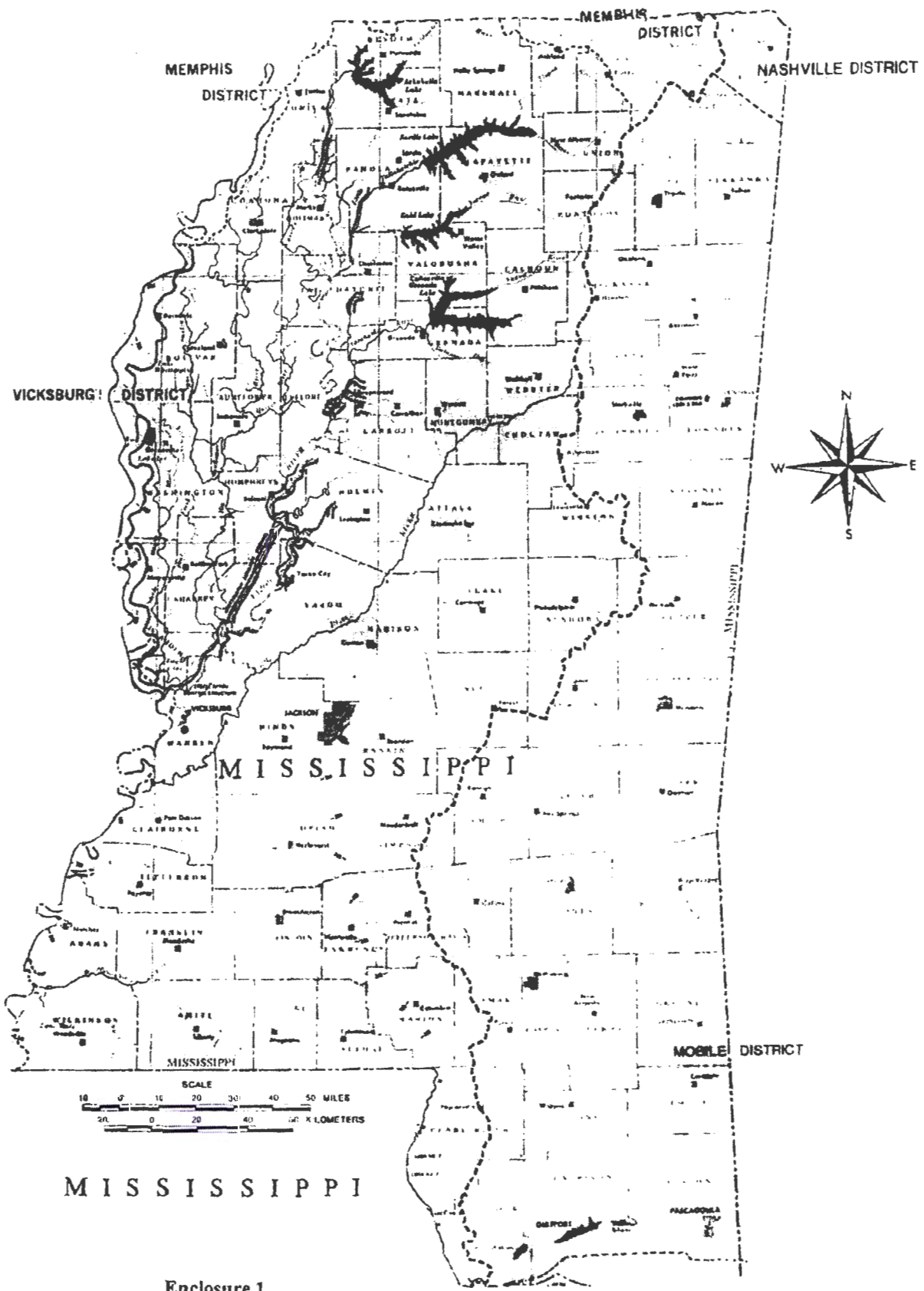
(3) Significant new information surfaces which was not considered in reaching the original public interest decision.

i. The General Permit is valid for 5 years from the date of the issuance. At the end of that time, the cumulative environmental effects of completed work will be reviewed and reissuance of the permit may be considered. However, if unforeseen adverse environmental effects result from the issuance of this General Permit, it may be modified or terminated at any time.

j. Authorization under this General Permit is valid until the General Permit expires. Activities authorized under this General Permit which are under construction, or that are under contract to commence by the expiration of this General Permit, will remain authorized provided the activity is completed within 12 months of the date of expiration.



Cori Carraway
Acting Chief, Regulatory Branch



Enclosure 1

(ENC 1)



STATE OF MISSISSIPPI
PHIL BRYANT
GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
GARY C. RIKARD, EXECUTIVE DIRECTOR
January 30, 2019

Certified Mail No. 7017 0530 0000 5971 7466

Ms. Jennifer Mallard
U.S. Army Corps of Engineers
Vicksburg District
4155 Clay Street
Vicksburg, Mississippi 39183-3435

Dear Ms. Mallard:

Re: U. S. Army Corps of Engineers
Vicksburg District
General Permit 46. MDOT
Warren County
COE No. MVK20180808
WQC No. WQC2018047

Pursuant to Section 401 of the Federal Water Pollution Control Act (33 U. S. C. 1251, 1341), the Office of Pollution Control (OPC) issues this Certification, after public notice and opportunity for public hearing, to the U.S. Army Corps of Engineers, Vicksburg District, an applicant for a Federal License or permit to conduct the following activity:

U.S. Army Corps of Engineers, Vicksburg District, General Permit 46: Proposed reissuance of a statewide General Permit for the discharge of dredged or fill material in waters of the United States and/or structures or work affecting navigable waters of the United States associated with the construction and stabilization of roadway embankments and bridge abutments. This General Permit would authorize activities such as the repair and stabilization of existing roadway embankments and bridge abutments; the installation of additional traffic lanes to existing roadways; the upgrading of bridges and other stream-crossing structures; and construction along new alignments.

This proposed General Permit contains certain limitations intended to protect the environment and natural and cultural resources. Conformance with conditions contained in the General Permit does not necessarily guarantee authorization under this General Permit. In cases where the District Engineer considers it necessary, an application will be required for an individual permit. Regulated construction, dredging, or fill operations not specifically authorized by this General Permit would be prohibited unless authorized by a separate permit.

48690 WOC20180001

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RECEIVED FEB 04 2019

OFFICE OF POLLUTION CONTROL

AN EQUAL OPPORTUNITY EMPLOYER

(ENCL 2)

General Permits may be issued for a category or categories of activities when: (1) those activities are substantially similar in nature and cause only minimal individual and cumulative environmental impacts; or (2) the General Permit would result in avoiding unnecessary duplication of the regulatory control exercised by another Federal, State, or local agency, provided it has been determined that the environmental consequences of the actions are individually and cumulatively minimal.

In order to be authorized by this General Permit, the Mississippi Department of Transportation would be required to submit to the District Engineer in writing, the following information a minimum of 60 days prior to the proposed bid advertisement date:

- a. Statement that the work would be conducted in compliance with the terms and conditions of General Permit 46, would not adversely impact adjoining properties, and would be mitigated for in accordance with the terms of this General Permit.
- b. A location map showing the proposed worksite (including Section, Township, Range, and County).
- c. A brief description of the proposed worksite in its present condition.
- d. For the selected site, a full set of construction plans (including quantities and types of any fill and quantities of any excavation), maps, and engineering drawings for the proposed activity at that site. These shall include a map of sufficient scale that illustrates an "overlay" of the proposed construction/development activity (e.g. construction roads, ditches, parking areas, lay-down pads, temporary work areas, remaining natural areas, etc.) on jurisdictional waters of the U.S.
- e. The estimated starting and completion dates of the proposed construction.
- f. Name, mailing address, telephone number, and email address of the person acting as the point of contact for the requested authorization.
- g. If wetlands or other waters of the U.S. are to be impacted, the following information is required:
 - (1) A map delineating the wetlands and other waters of the U.S. and copies of the associated data form(s) for routine wetland determinations from the 1987 Corps of Engineers Wetland

Delineation Manual and its subsequent Regional Supplement Manual(s) covering the proposed project area(s).

- (2) The type and date of approval of the NEPA documentation by the FHWA and a copy of their findings as required by Executive Order 11990.
- h. A discussion of how adverse impacts to waters of the U.S. from the proposed activity will be avoided and minimized to the maximum extent practicable at the construction site.
- i. If the loss or conversion to waters of the United States at a single and complete project site exceeds 0.1 acre, the application shall include a compensatory mitigation plan based on an approved wetland functional assessment methodology. Such recommendations should include copies of all factual information (e.g. worksheets) used in performing the calculations of the functional assessment. (Note: The District Engineer will consider this recommendation; however, the District Engineer retains discretionary authority in making the final decision on compensatory mitigation measures).
- j. If impacts to a natural waterway at a single and complete project site exceed 100 linear feet, MDOT would include a compensatory mitigation plan based on an approved stream functional assessment methodology. Such recommendations would include copies of all factual information (e.g. worksheets) used in performing the calculations of the functional assessment. (Note: The District Engineer will consider this recommendation, however, the District Engineer retains discretionary authority in making the final decision on compensatory mitigation measures).
- k. Comments from the Mississippi Department of Wildlife, Fisheries and Parks, Mississippi Department of Archives and History (including the results of any National Historic Preservation Act, Section 106, consultation actions), United States Fish and Wildlife Service (including the results of any Endangered Species Act, Section 7, consultation actions), and the Mississippi Department of Environmental Quality on the project.
- l. Concurrence in writing from the Mississippi Department of Marine Resources (related to the Coastal Zone Management Act) and the National Marine Fisheries Service (including the results of any Magnuson-Steven Fisheries Conservation and Management Act, essential fish habitat consultation actions) if the project is located in

Hancock, Harrison, or Jackson County, Mississippi. (See Special Condition h. below).

Upon receipt of this information the District Engineer will: advise MDOT, in writing, either that the work will be evaluated for authorization under the General Permit 46; will request additional information, if needed; or will advise MDOT that the proposed activity will be evaluated as an individual permit.

Special Conditions of the General Permit:

- a. No more than 7 acres of wetlands and other waters would be directly impacted by the placement of fill at each single and complete crossing of a water of the United States where the proposed work involves either upgrading an existing highway within an established corridor or where the work is to be constructed along a new alignment. Any wetlands cut off from their natural hydrologic regime as a result of project work would be considered as directly impacted.
- b. For stream or river crossings, discharges of permanent fill material and temporary fill material would be the minimum necessary to complete the crossing. The term fill refers to earthen material, riprap, concrete, and any other materials associated with the work.
- c. The stabilization or construction work would not interfere with navigation (including recreational boating) or adversely impact the flow-carrying capacity of the affected waterbody.
- d. Material to be used for fill must be nonpolluting and may be obtained either offsite or from site preparation. Offsite material would not be obtained from wetlands outside the 7-acre limit or from other areas which may adversely affect adjacent wetlands. Any excess material would be placed in an upland area and properly contained or stabilized to prevent entry into adjacent waterbodies or wetlands.
- e. Disturbed areas on the site would be stabilized to minimize erosion. Stabilization of erodible areas would be accomplished by seeding or sodding as soon as practicable to restore vegetative cover. If initial re-vegetation is unsuccessful, the area would be rescinded or re-sodded until re-vegetation is successful. In areas subject to currents, riprap may be required for slope protection.
- f. No activity that may adversely affect a site listed in or eligible for listing in the National Register of Historic Places would be authorized by this General Permit until the requirements of Section 106 of the National Historic Preservation Act have been satisfied. Additional material would not be taken from a known historical or archaeological site. If you discover any previously

unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the District Engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The District Engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

- g. The work would not occur in a National Wildlife Refuge, State Game Management Area, or other such Federal or State lands, or lands leased to those entities without the appropriate Federal or State authorization in writing.
- h. For work within the Mississippi Coastal Zone Management Area, including all areas below Interstate I-10, a set of complete plans would be sent to the two agencies listed below for review and/or approval as appropriate. Comments and concurrence resulting from this coordination would be submitted with the request for authorization under this General Permit.
 - 1. Mississippi Department of Marine Resources
1141 Bayview Avenue
Suite 101
Biloxi, Mississippi 39530
 - 2. National Marine Fisheries Service
Southeast Regional Office
Protected Resources
Attention: Ms. Karla Reece
263 13th Avenue S.
St. Petersburg, Florida 33701
Email: Karla.reece@noaa.gov
 - 3. National Marine Fisheries Service
Room 266, Military Science Building
Attention: Mr. Brandon Howard
South Stadium Drive
La. State University
Baton Rouge, Louisiana 70803-7535
- i. All temporary fills must consist of non-erodible material or be protected to prevent erosion.
- j. Any materials used for temporary structures such as cofferdams, equipment pads, or temporary crossings, would be removed as soon as practicable, and the waterway would be restored to preconstruction contours.

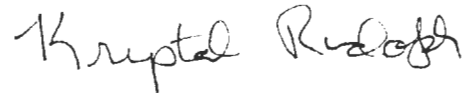
- k. Disturbance to riparian vegetation would be kept to a minimum during construction.
- l. No activity shall be authorized under this General Permit which would likely directly or indirectly jeopardize the continued existence of a Federally-listed threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which would likely directly or indirectly destroy or adversely modify the critical habitat of such species. No activity shall be authorized under this General Permit which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed. No activity shall be authorized under this General Permit which "may affect" essential fish habitat as identified under Magnuson-Stevens Fishery Conservation and Management Act, unless essential fish habitat consultation addressing the effects of the proposed activity has been completed.
- m. Discharges would not restrict or impede the movement of aquatic species indigenous to the waters.
- n. All work would be performed in a manner that would minimize increased turbidity of the water in the project area and otherwise avoid adverse effects on water quality and aquatic life especially during fish spawning season. This may require avoiding construction activities during the peak spawning months of April, May, and June.
- o. The discharge would not adversely affect a public water supply intake or a National or State Fish Hatchery intake.
- p. The discharge would not contain unacceptable levels of pathogenic organisms (as prescribed in standards set by the Mississippi Department of Environmental Quality) in areas used for water-contact sports.
- q. The construction activity would not result in the permanent diversion or relocation of a stream or a river channel except where needed to align a waterway crossing to avoid potential damage to the roadway. In no case, would any realignment extend beyond 150 feet upstream and 150 feet downstream from the centerline of a crossing structure. The construction activity would result in neither stream flow impediment nor drain adjacent wetlands.
- r. Authorizations under this General Permit would be valid for five (5) years from the date of the authorizing letter.

2. Prior to the start of construction activities, coverage under a Stormwater Construction General NPDES Permit shall be obtained. No construction activities shall begin until such approvals are obtained.
3. Extreme care shall be taken to prevent the permanent restriction or impedance of water flow. Pre-construction hydrology shall be maintained.
4. All stream impacts (including streams identified as ephemeral by the U.S. Army Corps of Engineers and described as non-relatively permanent waters) shall be mitigated in kind with stream mitigation elements. In the event that stream mitigation is not available and alternate mitigation proposals are provided, a pre-construction notification shall be provided to MDEQ and 10 working days shall be allowed to provide comments.
5. A pre-construction notification shall be provided to MDEQ for projects that include channel work within waterways found on the latest version of the State of Mississippi's Section 303(d) List of Impaired Water Bodies for sediment or biological impairment or waterways with a completed Total Maximum Daily Load (TMDL) for sediment or biological impairment. This notification shall include the following:
 - a. Justification of why the impacts cannot be avoided;
 - b. Proposed best management practices that would minimize the impacts to receiving sensitive waters; and
 - c. Compensatory mitigation primarily along the same reach of stream or on another impaired stream within the same drainage basin.
6. The turbidity outside the limits of a 750-foot mixing zone shall not exceed the ambient turbidity by more than 50 Nephelometric Turbidity Units.
7. No sewage, oil, refuse, or other pollutants shall be discharged into the watercourse.

The Office of Pollution Control also certifies that there are no limitations under Section 302 nor standards under Sections 306 and 307 of the Federal Water Pollution Control Act which are applicable to the applicant's above-described activity.

This certification is valid for the project as proposed. Any deviations without proper modifications and/or approvals may result in a violation of the 401 Water Quality Certification. If we can be of further assistance, please contact us.

Sincerely,



Krystal Rudolph, P.E., BCEE
Chief, Environmental Permits Division

KR: chb

cc: Tony Lobred, U.S. Army Corps of Engineers, Vicksburg District
Willa Brantley, Department of Marine Resources
David Felder, U.S. Fish and Wildlife Service
Molly Martin, Environmental Protection Agency