Brad White
Executive Director
Jeff Ely, P.E.
Chief of Staff

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Earl Glenn, Jr., P.E.
Deputy Executive Director/Chief Engineer
Lisa M. Hancock, CPA
Deputy Executive Director/Administration

October 27, 2025

Ms. Carrie Barefoot
Construction and Building Materials
Environmental Permits Division
Office of Pollution Control
Mississippi Department of Environmental Quality
P. O. Box 2261
Jackson, Mississippi 39225

Dear Ms. Barefoot:

Re: LCNOI Submittal Under MSR10

This LCNOI application is for the MDOT Project No. BR-2909-00(006) FMS 106103/301000 on SR 178 for new bridge replacement work in Marshall County approximately 5 miles southeast of Holly Springs. All necessary information is enclosed in this application.

Under ACT5, T-5 (A) of the new General Permit it is required that a buffer zone shall be maintained between land disturbing activities and perennial water bodies. A minimum of 150-foot buffer zone is recommended. Your office defines a buffer zone under ACT12, T-2 as a strip of dense undisturbed perennial vegetation, either original or reestablished, that borders perennial streams and rivers, ponds and lakes and wetlands. ACT12, T-17 defines infeasible as being not technologically possible, or not economically practicable and achievable. This BMP of a minimum 150-foot buffer zone recommended for perennial water bodies in the Large Construction General Permit is not feasible for MDOT projects. Due to the nature of these linear construction projects which require bridges, box bridges, box culverts and pipe culverts, it would not be practical or cost-effective to adhere to this requirement.

If a 150-foot buffer area is not feasible then ACT5 T-3(6) requires a 50-foot undisturbed natural buffer around waters of the United States; or provide and maintain an undisturbed natural buffer that is less than 50 feet and supplemented by additional erosion and sediment controls which in combination achieves the sediment load reduction equivalent to a 50-foot undisturbed natural buffer. We have included three riparian buffer sheets depicting the areas of construction in relation to the stream embankments.

These Bridge Sites were built in 1938 and are considered structurally deficient. New bridges with wider spans to meet current standards will replace the existing structures. Bridges 35.2, 35.4, and 35.6 will be placed on new alignment just south of the current location. The existing structures will be removed and piles cut below the mudline. Bridge 34.1 which crosses an unnamed creek will be replaced with a double 16X8 RCB on the current location. Bridge 33.6 will be replaced with a new bridge structure on the existing location as well.

During construction Highway 78 will be used detour for traffic control as existing roadways will be used for construction and traffic. Temporary haul roads and bridges may be built as deemed necessary by the contractor on either side to aid in construction. Any existing timber Piles or concrete footings will be removed. After completion the temporary haul roads and bridges will be removed to natural conditions.

Certain erosion control measures are listed for use: 1) No dirt can be pushed into the creek, 2) If a platform for working is needed, then riprap may be used, 3) Minimize disturbance to existing banks, 4) If the bent is in close proximity to the banks, then riprap shall be placed prior to pile driving, 5) Riprap shall be placed on slopes immediately after pile driving, 6) Clearing should be kept to a minimum and grubbing only where required. Other erosion control measures that will be used are geotextile stabilization, solid sodding, ditch liner, concrete paved ditch, soil reinforcing mat, grassing, vegetative mulch, temporary grassing, temporary silt fence, super silt fence, temporary erosion checks, 20" wattles, temporary slope drains, silt dike, rockbags, and riprap for erosion control.

The site specific SWPPP that will be submitted by the contractor for approval will have all of this information. Approximately 19 acres of soil area will be disturbed. We believe these BMPs will suffice for adequate control of soil erosion leaving the worksite.

If you have questions, please feel free to give me a call at (601)359-7275. This project is scheduled to be advertised in December, 2025 and let in January, 2026.

Sincerely,

John C. Taylor

John C. Taylor, PE, BCEE, RPG
MDOT, Roadway Design Division

AI: 89868

MSR109695

Rec'd via email: 10/27/2025

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

LARGE CONSTRUCTION NOTICE OF INTENT (LCNOI) FOR COVERAGE UNDER THE LARGE CONSTRUCTION STORM WATER GENERAL NPDES PERMIT

INSTRUCTIONS

The Large Construction Notice of Intent (LCNOI) is for coverage under the Large Construction General Permit for land disturbing activities of five (5) acres or greater; or for land disturbing activities, which are part of a larger common plan of development or sale that are initially less than five (5) acres but will ultimately disturb five (5) or more acres. Applicant must be the owner or operator. For construction activities, the operator is typically the prime contractor. The owner(s) of the property and the prime contractor associated with regulated construction activity on the property have joint and severable responsibility for compliance with the Large Construction Storm Water General Permit MSR10.

If the company seeking coverage is a corporation, a limited liability company, a partnership, or a business trust, attach proof of its registration with the Mississippi Secretary of State and/or its Certificate of Good Standing. This registration or Certificate of Good Standing must be dated within twelve (12) months of the date of the submittal of this coverage form. Coverage will be issued in the company name as it is registered with the Mississippi Secretary of State.

Completed LCNOIs should be filed at least thirty (30) days prior to the commencement of construction. Discharge of storm water from large construction activities without written notification of coverage is a violation of state law.

Submittals with this LCNOI must include:
- **A site-specific Storm Water Pollution Prevention Plan (SWPPP) developed in accordance with ACT5 of the General Permit**
- **A detailed site-specific scaled drawing showing the property layout and the features outlined in ACT5 of the General Permit**
- **A United States Geological Survey (USGS) quadrangle map or photocopy, extending at least one-half mile beyond the facility property boundaries with the site location and outfalls outlined or highlighted. The name of the quadrangle map must be shown on all copies. Quadrangle maps can be obtained from the MDEQ, Office of Geology at 601-961-5523.**

Additional submittals may include the following, if applicable:
- **Appropriate Section 404 documentation from U.S. Army Corps of Engineers**
- **Appropriate documentation concerning future disposal of sanitary sewage and sewage collection system construction**
- **Appropriate documentation from the MDEQ Office of Land & Water concerning dam construction and low flow requirements**
- **Approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties**
- **Antidegradation report for disturbance within Waters of the State**

ALL QUESTIONS MUST BE ANSWERED (Answer "NA" if the question is not applicable)

OC

MSR10 9695

(NUMBER TO BE ASSIGNED BY STATE)

APPLICANT IS THE: ☑ **OWNER** ☐ **PRIME CONTRACTOR**

OWNER CONTACT INFORMATION

OWNER CONTACT PERSON: John C. Taylor

OWNER COMPANY LEGAL NAME: Mississippi Department of Transportation (MDOT)

OWNER STREET OR P.O. BOX: P. O. Box 1850

OWNER CITY: Jackson **STATE:** Ms **ZIP:** 39215

OWNER PHONE #: (601) 359-7275 **OWNER EMAIL:** jtaylor@mdot.ms.gov

PREPARER CONTACT INFORMATION

IF NOI WAS PREPARED BY SOMEONE OTHER THAN THE APPLICANT

CONTACT PERSON: _____

COMPANY LEGAL NAME: _____

STREET OR P.O. BOX: _____

CITY: _____ **STATE:** _____ **ZIP:** _____

PHONE # ( ) **EMAIL:**

PRIME CONTRACTOR CONTACT INFORMATION

PRIME CONTRACTOR CONTACT PERSON: _____

PRIME CONTRACTOR COMPANY LEGAL NAME: _____

PRIME CONTRACTOR STREET OR P.O. BOX: _____

PRIME CONTRACTOR CITY: _____ **STATE:** _____ **ZIP:** _____

PRIME CONTRACTOR PHONE #: (____)_____ **PRIME CONTRACTOR EMAIL:** _____

FACILITY SITE INFORMATION

FACILITY SITE NAME: MDOT Marshall 106103/301000

FACILITY SITE ADDRESS (If the physical address is not available, please indicate the nearest named road. For linear projects indicate the beginning of the project and identify all counties the project traverses.)

STREET: SR 178

CITY: Holly Springs STATE: MS COUNTY: Marshall ZIP: 38635

FACILITY SITE TRIBAL LAND ID (N/A If not applicable): _____

LATITUDE: 34 **degrees** 43 **minutes** 9.33 **seconds** **LONGITUDE:** 89 **degrees** 24 **minutes** 43.26 **seconds**

LAT & LONG DATA SOURCE (GPS *(Please GPS Project Entrance/Start Point)* or Map Interpolation): Waterford

TOTAL ACREAGE THAT WILL BE DISTURBED [1]: 19

IS THIS PART OF A LARGER COMMON PLAN OF DEVELOPMENT? YES ☐ NO ☑

IF YES, NAME OF LARGER COMMON PLAN OF DEVELOPMENT: _____
AND PERMIT COVERAGE NUMBER: MSR10_ _ _ _

ESTIMATED CONSTRUCTION PROJECT START DATE: 2026 03 15 (YYYY-MM-DD)

ESTIMATED CONSTRUCTION PROJECT END DATE: 2029 05 15 (YYYY-MM-DD)

DESCRIPTION OF CONSTRUCTION ACTIVITY: Bridge Replacement

PROPOSED DESCRIPTION OF PROPERTY USE AFTER CONSTRUCTION HAS BEEN COMPLETED:
Highway Use

SIC Code: 1611 **NAICS Code** 237310

NEAREST NAMED RECEIVING STREAM: Big Spring Creek and Unnamed Streams

IS RECEIVING STREAM ON MISSISSIPPI'S 303(d) LIST OF IMPAIRED WATER BODIES? (The 303(d) list of impaired waters and TMDL stream segments may be found on MDEQ's web site: http://www.deq.state.ms.us/MDEQ.nsf/page/TWB_Total_Maximum_Daily_Load_Section**)** YES ☐ NO ☑

HAS A TMDL BEEN ESTABLISHED FOR THE RECEIVING STREAM SEGMENT? YES ☐ NO ☑

FOR WHICH POLLUTANT:

ARE THERE RECREATIONAL STREAMS, PRIVATE/PUBLIC PONDS OR LAKES WITHIN ½ MILE DOWNSTREAM OF PROJECT BOUNDRY THAT MAY BE IMPACTED BY THE CONSTRUCTION ACTIVITY? YES ☐ NO ☑

EXISTING DATA DESCRIBING THE SOIL (for linear projects please describe in SWPPP):
SM, ML

WILL FLOCCULANTS BE USED TO TREAT TURBIDITY IN STORM WATER? YES ☐ NO ☑

IF YES, INDICATE THE TYPE OF FLOCCULANT. ☐ **ANIONIC POLYACRYLIMIDE (PAM)**
☐ **OTHER** _____

IF YES, DOES THE SWPPP DESCRIBE THE METHOD OF INTRODUCTION, THE LOCATION OF INTRODUCTION AND THE LOCATION OF WHERE FLOCCULATED MATERIAL WILL SETTLE?

IS A SDS SHEET INCLUDED FOR THE FLOCCULATE? YES ☐ NO ☑

WILL THERE BE A 50 FT BUFFER BETWEEN THE PROJECT DISTURBANCE AND THE WATERS OF THE STATE? YES ☑ NO ☐

IF NOT, PROVIDE EQUIVALENT CONTROL MEASURES IN THE SWPPP.

[1]Acreage for subdivision development includes areas disturbed by construction of roads, utilities and drainage. Additionally, a housesite of at least 10,000 ft^2 per lot (entire lot, if smaller) shall be included in calculating acreage disturbed.

DOCUMENTATION OF COMPLIANCE WITH OTHER REGULATIONS/REQUIREMENTS

COVERAGE UNDER THIS PERMIT WILL NOT BE GRANTED UNTIL ALL OTHER REQUIRED MDEQ PERMITS AND APPROVALS ARE SATISFACTORILY ADDRESSED

IS LCNOI FOR A FACILITY THAT WILL REQUIRE OTHER PERMITS? YES ☐ NO ☑

IF YES, CHECK ALL THAT APPLY: ☐ AIR ☐ HAZARDOUS WASTE ☐ PRETREATMENT

☐ WATER STATE OPERATING ☐ INDIVIDUAL NPDES ☐ OTHER: _____

IS THE PROJECT REROUTING, FILLING OR CROSSING A WATER CONVEYANCE OF ANY KIND? (If yes, contact the U.S. Army Corps of Engineers' Regulatory Branch for permitting requirements.) YES ☐ NO ☑

IF THE PROJECT REQUIRES A CORPS OF ENGINEER SECTION 404 PERMIT, PROVIDE APPROPRIATE DOCUMENTATION THAT:

Corps Intent to Approve Under NW 23 Coverage Included.

-The project has been approved by individual permit, or
-The work will be covered by a nationwide permit and NO NOTIFICATION to the Corps is required, or
-The work will be covered by a nationwide or general permit and NOTIFICATION to the Corps is required

IS THE PROJECT REROUTING, FILLING OR CROSSING A STATE WATER CONVEYANCE OF ANY KIND? (If yes, please provide an antidegradation report.) YES ☐ NO ☑

IS A LAKE REQUIRING THE CONSTRUCTION OF A DAM BEING PROPOSED? (If yes, provide appropriate approval documentation from MDEQ Office of Land and Water, Dam Safety.) YES ☐ NO ☑

IF THE PROJECT IS A SUBDIVISION OR A COMMERCIAL DEVELOPMENT, HOW WILL SANITARY SEWAGE BE DISPOSED? Check one of the following and attach the pertinent documents.

☐ **Existing Municipal or Commercial System. Please attach plans and specifications for the collection system and the associated "Information Regarding Proposed Wastewater Projects" form or approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties. If the plans and specifications can not be provided at the time of LCNOI submittal, MDEQ will accept written acknowledgement from official(s) responsible for wastewater collection and treatment that the flows generated from the proposed project can and will be transported and treated properly. The letter must include the estimated flow.**

☐ **Collection and Treatment System will be Constructed. Please attach a copy of the cover of the NPDES discharge permit from MDEQ or indicate the date the application was submitted to MDEQ (Date: _____.)**

☐ **Individual Onsite Wastewater Disposal Systems for Subdivisions Less than 35 Lots. Please attach a copy of the Letter of General Acceptance from the Mississippi State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.**

☐ **Individual Onsite Wastewater Disposal Systems for Subdivisions Greater than 35 Lots. A determination of the feasibility of installing a central sewage collection and treatment system must be made by MDEQ. A copy of the response from MDEQ concerning the feasibility study must be attached. If a central collection and wastewater system is not feasible, then please attach a copy of the Letter of General Acceptance from the State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.**

INDICATE ANY LOCAL STORM WATER ORDINANCE (I.E. MS4)WITH WHICH THE PROJECT MUST COMPLY:

_____

_____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Applicant[1] (owner or prime contractor)	10/24/2025 **Date Signed**
Lee Frederick **Printed Name[1]**	Assistant Chief Engineer - Preconstruction **Title**

[1]This application shall be signed as follows:

- **For a corporation, by a responsible corporate officer.**
- **For a partnership, by a general partner.**
- **For a sole proprietorship, by the proprietor.**

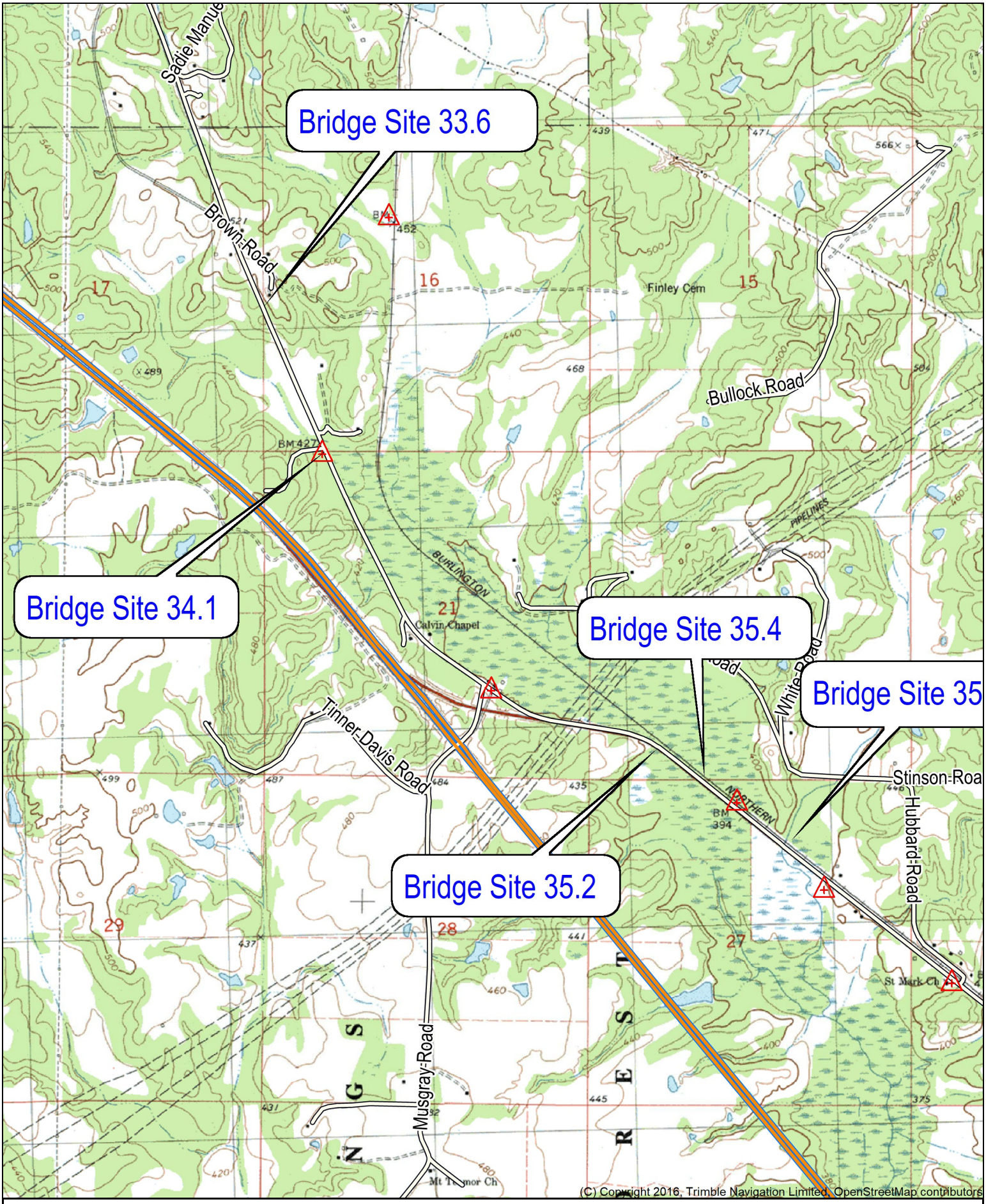
For a municipal, state or other public facility, by principal executive officer, mayor, or ranking elected official

Please submit the LCNOI form to: **Chief, Environmental Permits Division**
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Electronically: **https://www.mdeq.ms.gov/construction-stormwater/**

Revised 3/23/22

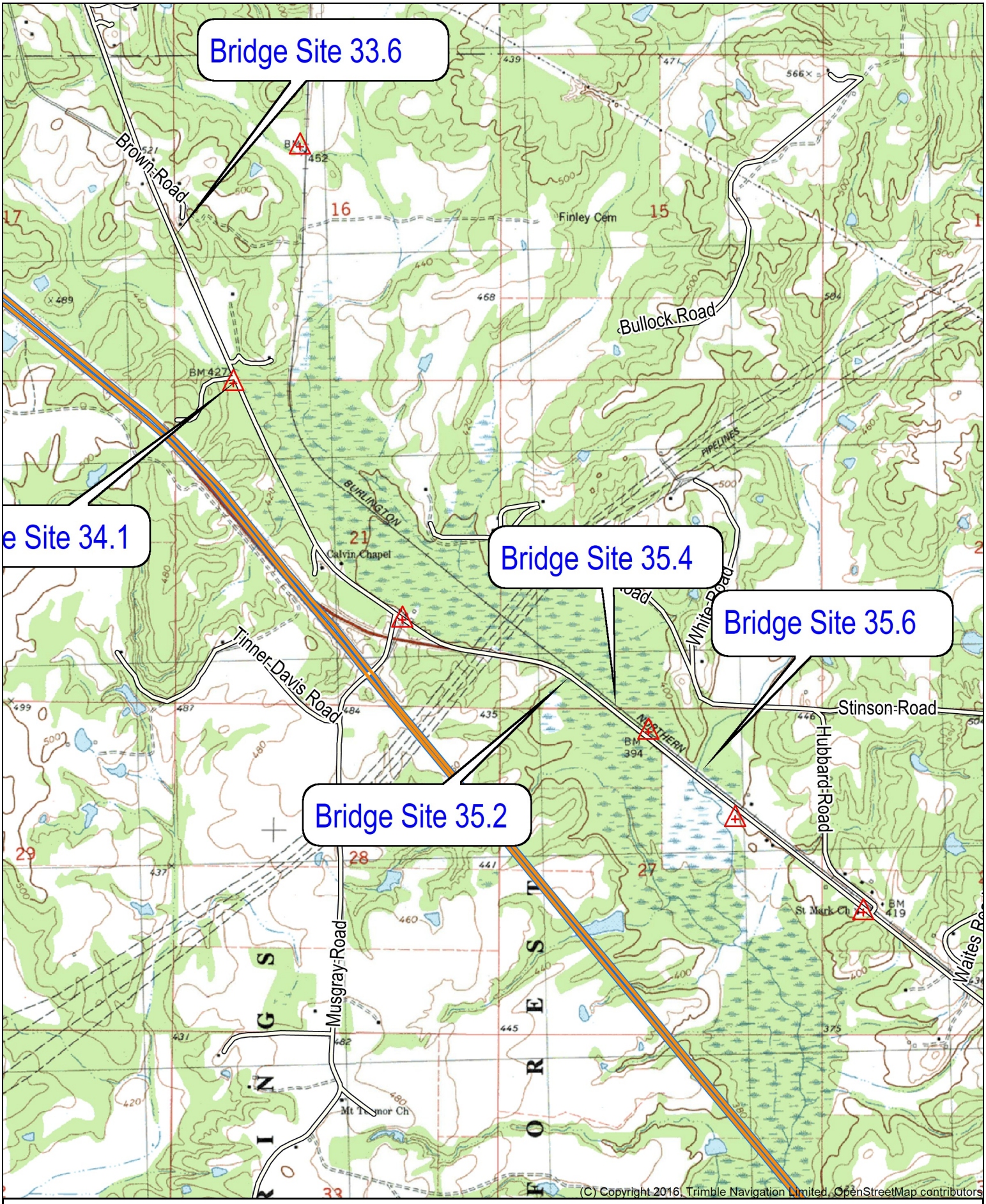
Location Maps



Name: WATERFORD
Date: 05/23/22
Scale: 1 inch = 2,000 ft.

Location: 034° 43' 18.0267" N, 089° 24' 34.3045" W
Marshall SR178 Bridge Replacement Projects
FMS 106103/301000

(C) Copyright 2016, Trimble Navigation Limited



Name: WATERFORD
Date: 05/23/22
Scale: 1 inch = 2,000 ft.

Location: 034° 43' 06.6577" N, 089° 24' 16.9827" W
Marshall SR178 Bridge Replacement Projects
FMS 106103/301000

(C) Copyright 2016, Trimble Navigation Limited

Name: WATERFORD NE, MS
Date: 05/23/22
Scale: 1 inch = 1,000 ft.

Location: 034° 42' 57.1223" N, 089° 23' 56.8677" W
Marshall SR178 Bridge Replacement Projects
FMS 106103/301000

(C) Copyright 2016, Trimble Navigation Limited

Name: WATERFORD NE, MS
Date: 05/23/22
Scale: 1 inch = 1,000 ft.

Location: 034° 43' 55.8524" N, 089° 25' 19.7972" W
Marshall SR178 Bridge Replacement Projects
FMS 106103/301000

(C) Copyright 2016, Trimble Navigation Limited

CORPS Intent To Approve Under NW 23 Coverage

Taylor, John Cox

From: Wodtke, Andrea R
Sent: Wednesday, October 22, 2025 10:45 AM
To: Nail, Chris
Cc: Johnson, Adam; Taylor, John Cox
Subject: Fwd: MDEQ - Marshall 178 - 106103-301

Chris,

The below email chain from the Corps should satisfy the LCNOI application 404 permitting requirement for the subject project.

Thanks,

Andrea

Begin forwarded message:

> **From:** "Everitt, Jared H CIV USARMY CEMVK (USA)" <Jared.H.Everitt@usace.army.mil>
> **Date:** October 22, 2025 at 9:48:33 AM CDT
> **To:** "Wodtke, Andrea R" <awodtke@mdot.ms.gov>
> **Subject: RE: MDEQ - Marshall 178 - 106103-301**
>
> Yes, I think it will still fit the conditions of the NWP 23.
>
> **From:** Wodtke, Andrea R <awodtke@mdot.ms.gov>
> **Sent:** Wednesday, October 22, 2025 9:20 AM
> **To:** Everitt, Jared H CIV USARMY CEMVK (USA) <Jared.H.Everitt@usace.army.mil>
> **Subject:** [Non-DoD Source] Re: MDEQ - Marshall 178 - 106103-301
>
> With that addition, are you comfortable with the Nationwide 23?
>
>> On Oct 22, 2025, at 8:54 AM, Everitt, Jared H CIV USARMY CEMVK (USA) <Jared.H.Everitt@usace.army.mil> wrote:
>>
>> Good morning Andrea,
>>
>> Thanks for sending this back over. I'll be sure Linda adds it to the project file list.
>>
>> Respectfully,
>>
>> Jared

From: Wodtke, Andrea R <awodtke@mdot.ms.gov>
Sent: Monday, October 20, 2025 5:11 PM
To: Everitt, Jared H CIV USARMY CEMVK (USA) <Jared.H.Everitt@usace.army.mil>
Subject: [Non-DoD Source] RE: MDEQ - Marshall 178 - 106103-301

Jared,

Good catch. I overlooked a 1/30/23 re-eval that was done. That is attached making the CE up-to-date.

Thanks,

Andrea

--
Andrea Wodtke
O: 601.359.7922
C: 601.323.4699

From: Everitt, Jared H CIV USARMY CEMVK (USA) <Jared.H.Everitt@usace.army.mil>
Sent: Monday, October 20, 2025 4:48 PM
To: Wodtke, Andrea R <awodtke@mdot.ms.gov>
Subject: RE: MDEQ - Marshall 178 - 106103-301

Good afternoon Andrea,

I briefly thumbed through this one. I think we can run this one as a NWP 23 as long as you all are good with signing off on the CE. I noticed the sheet that was in their was from 2021. Is it still valid?

Respectfully,

Jared

From: Wodtke, Andrea R <awodtke@mdot.ms.gov>
Sent: Monday, October 20, 2025 3:48 PM
To: Everitt, Jared H CIV USARMY CEMVK (USA) <Jared.H.Everitt@usace.army.mil>
Subject: [Non-DoD Source] MDEQ - Marshall 178 - 106103-301

Jared,

You received a permit application for the subject project. We anticipate the project being permitted using a Nationwide 23 permit. Do you anticipate permitting it as a Nationwide 23 or a different Nationwide?

This information is needed to begin the LCNOI stormwater permitting process with DEQ.

Thanks!

Andrea

--

Andrea Wodtke · *Deputy Director, Environmental Division*
MS Department of Transportation (87-01)
401 N. West Street · P.O. Box 1850 · Jackson, MS 39201
O: 601.359.7922 **C**: 601.323.4699 **F**: 601.359.7355

Riparian Buffer Zones

FMS CON: 106103/301000

STATE	PROJECT NO.
MISS.	BR-2909-00(006)

1. HAUL ROAD AND/OR BRIDGE ARE ALLOWABLE CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR MAY REQUEST MODIFICATIONS TO THE CLEARING LIMITS SHOWN AS NEEDED. ANY MODIFICATIONS REQUESTED WILL NEED TO BE SUBMITTED TO MDOT PRIOR TO PROCEEDING.

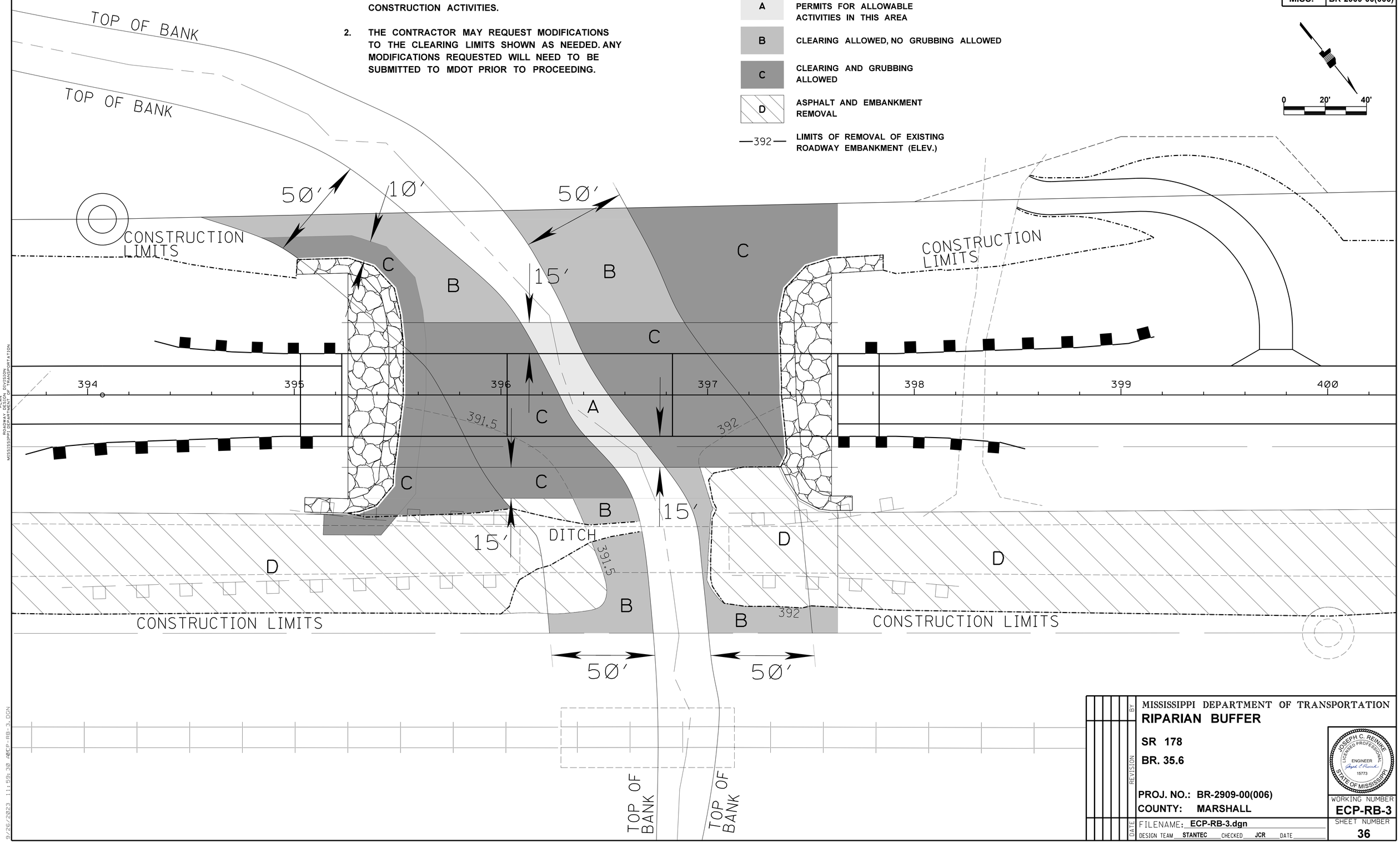
A — REFER TO THE 404 AND 401 PERMITS FOR ALLOWABLE ACTIVITIES IN THIS AREA

B — CLEARING ALLOWED, NO GRUBBING ALLOWED

C — CLEARING AND GRUBBING ALLOWED

D — ASPHALT AND EMBANKMENT REMOVAL

—392— LIMITS OF REMOVAL OF EXISTING ROADWAY EMBANKMENT (ELEV.)



PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

9/26/2023 11:59:30 ECP-RB-3.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

RIPARIAN BUFFER

SR 178

BR. 35.6

PROJ. NO.: BR-2909-00(006)

COUNTY: MARSHALL

REVISION | BY | DATE

FILENAME: ECP-RB-3.dgn

DESIGN TEAM STANTEC CHECKED JCR DATE

JOSEPH C. REIMINE — LICENSED PROFESSIONAL ENGINEER 15773 — STATE OF MISSISSIPPI

WORKING NUMBER **ECP-RB-3**

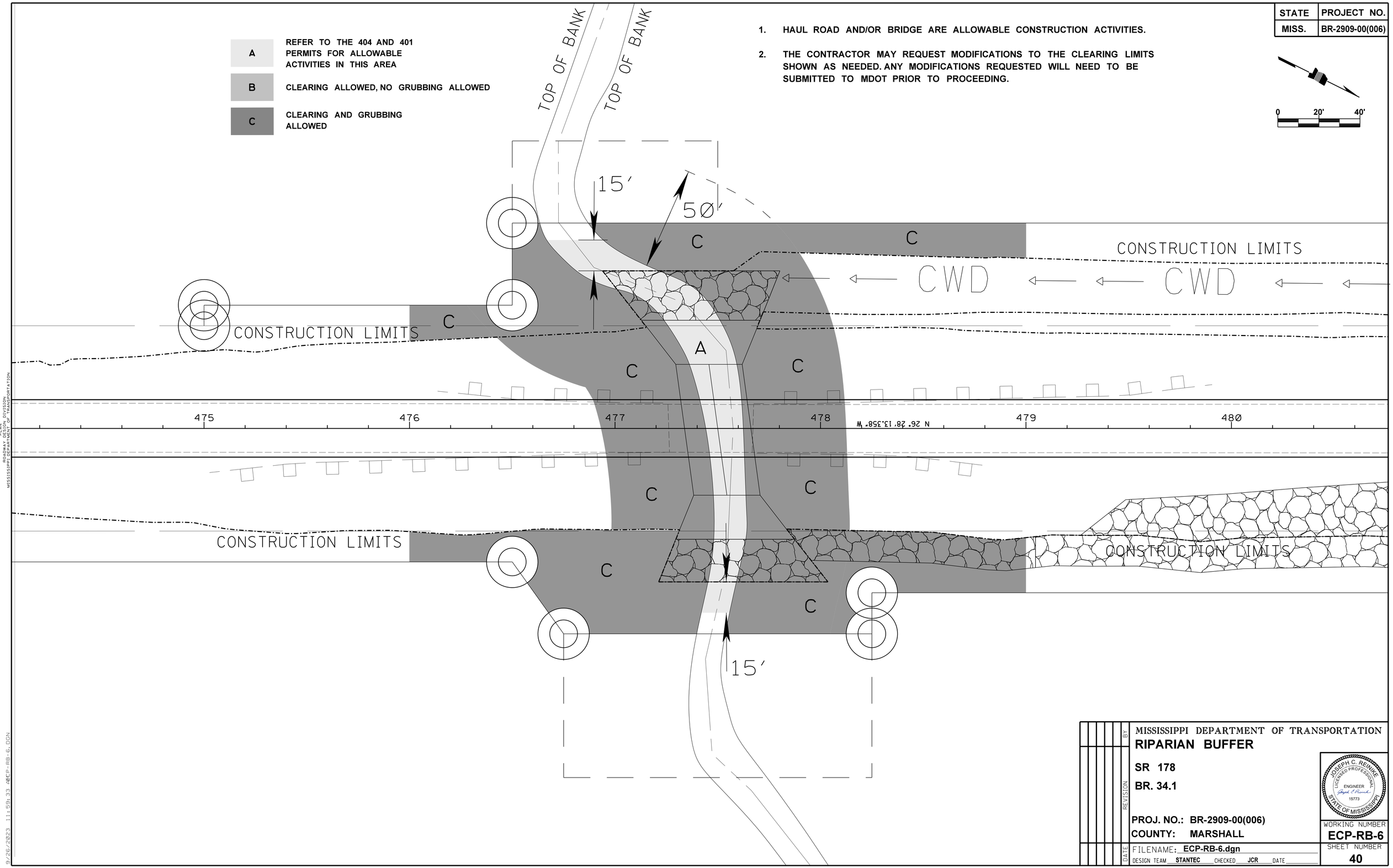
SHEET NUMBER **36**

FMS CON: 106103/301000

STATE	PROJECT NO.
MISS.	BR-2909-00(006)

A	REFER TO THE 404 AND 401 PERMITS FOR ALLOWABLE ACTIVITIES IN THIS AREA
B	CLEARING ALLOWED, NO GRUBBING ALLOWED
C	CLEARING AND GRUBBING ALLOWED

1. HAUL ROAD AND/OR BRIDGE ARE ALLOWABLE CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR MAY REQUEST MODIFICATIONS TO THE CLEARING LIMITS SHOWN AS NEEDED. ANY MODIFICATIONS REQUESTED WILL NEED TO BE SUBMITTED TO MDOT PRIOR TO PROCEEDING.



PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

9/26/2023 11:59:33 AECP-RB-6.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

RIPARIAN BUFFER

SR 178

BR. 34.1

PROJ. NO.: BR-2909-00(006)

COUNTY: MARSHALL

REVISION | BY | DATE

FILENAME: ECP-RB-6.dgn

DESIGN TEAM STANTEC CHECKED JCR DATE

JOSEPH C. RENNIE
LICENSED PROFESSIONAL
ENGINEER
15773
STATE OF MISSISSIPPI

WORKING NUMBER
ECP-RB-6

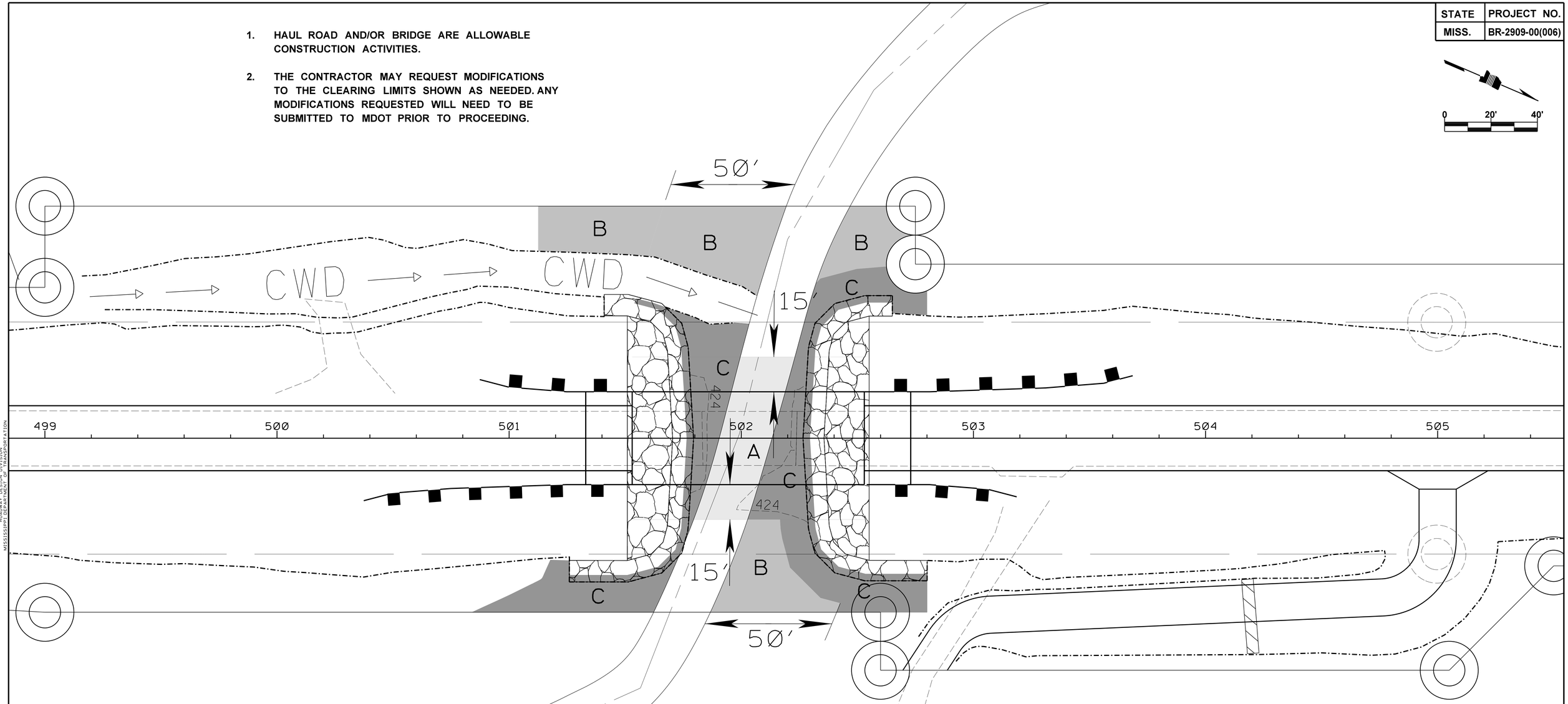
SHEET NUMBER
40

FMS CON: 106103/301000

STATE	PROJECT NO.
MISS.	BR-2909-00(006)

1. HAUL ROAD AND/OR BRIDGE ARE ALLOWABLE CONSTRUCTION ACTIVITIES.

2. THE CONTRACTOR MAY REQUEST MODIFICATIONS TO THE CLEARING LIMITS SHOWN AS NEEDED. ANY MODIFICATIONS REQUESTED WILL NEED TO BE SUBMITTED TO MDOT PRIOR TO PROCEEDING.



A	REFER TO THE 404 AND 401 PERMITS FOR ALLOWABLE ACTIVITIES IN THIS AREA
B	CLEARING ALLOWED, NO GRUBBING ALLOWED
C	CLEARING AND GRUBBING ALLOWED
—392—	LIMITS OF REMOVAL OF EXISTING ROADWAY EMBANKMENT (ELEV.)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

RIPARIAN BUFFER

SR 178

BR. 33.6

PROJ. NO.: BR-2909-00(006)

COUNTY: MARSHALL

JOSEPH C. RENNIE
LICENSED PROFESSIONAL ENGINEER
15773
STATE OF MISSISSIPPI

WORKING NUMBER
ECP-RB-7

SHEET NUMBER
42

REVISION | BY | DATE

FILENAME: ECP-RB-7.dgn

DESIGN TEAM STANTEC CHECKED JCR DATE

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

9/26/2023 11:59:35 AECP-RB-7.DGN

Roadway and Bridge Plans

R.O.W. FMS 106103/201000	
PLANS STAGE	DATE PRINTED
☐ CONCEPTUAL	
☐ PRE–R.O.W.	
☐ FIELD INSPECTION	
☐ R.O.W. PLANS TO SMD	
☐ FINAL R.O.W.	
☐ R.O.W. REVISION	
☒ OFFICE REVIEW	05/18/2022

STATE	PROJECT NUMBER	SHEET NO.
MISSISSIPPI	BR–2909–00(006)	1

GENERAL INDEX

INCLUDED THIS PROJECT		BEGIN WITH SHEET
☒	ROADWAY	1
☒	PERMANENT SIGNS	1001
☐	TRAFFIC SIGNALS	2001
☐	ITS COMPONENTS	3001
☐	LIGHTING	4001
☐	(RESERVED)	5001
☒	ROADWAY STANDARD DWGS	6001
☒	BOX CULVERT STD. DRAWINGS (LRFD)	7001
☐	BOX CULVERT STD. DRAWINGS (STD. SPEC.)	7501
☒	BRIDGE	8001
☒	CROSS SECTIONS	9001

BRIDGE STRUCTURES REQ'D.

(A) STA. 395+23 – 3@80'
LENGTH ALONG C.L. =240'

(B) STA. 404+78 – 4@100'
LENGTH ALONG C.L. =400'

(C) STA. 417+77 – 3@80'
LENGTH ALONG C.L. =240'

(D) STA. 501+53 – 1@100'
LENGTH ALONG C.L. =100'

BOX BRIDGES REQ'D.

(E) STA. 477+50 – DBL 16'x8'
LENGTH ALONG C.L. = 34.57'

STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

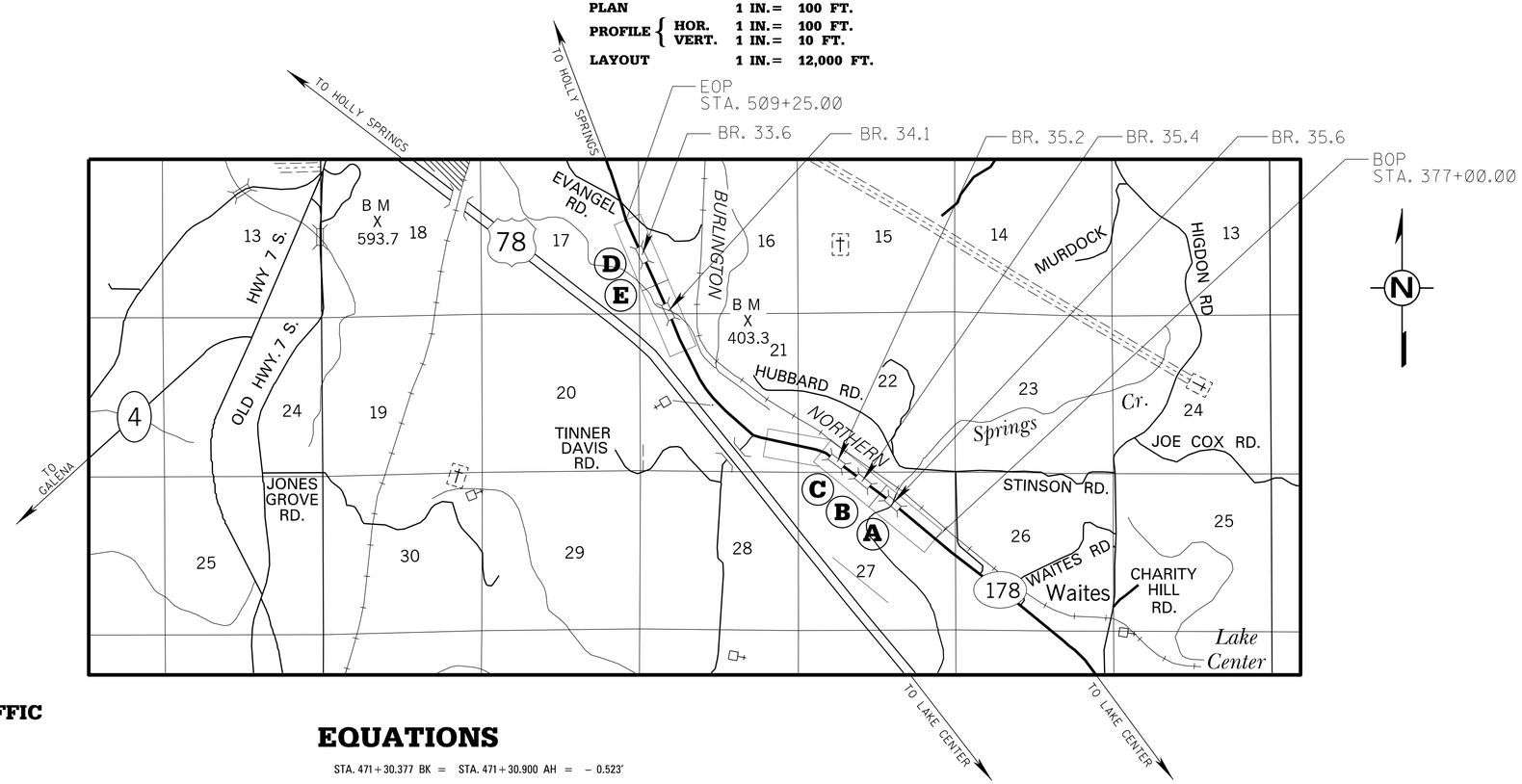
PLAN AND PROFILE OF PROPOSED STATE HIGHWAY FEDERAL AID PROJECT NO. BR–2909–00(006)

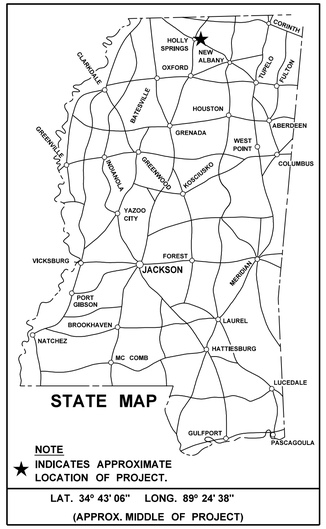
106103 / 301000

SR 178 BRIDGE REPLACEMENTS
BRIDGE NOS. 33.6, 34.1, 35.2, 35.4 AND 35.6
MARSHALL COUNTY

SCALES

PLAN		1 IN.= 100 FT.
PROFILE	HOR.	1 IN.= 100 FT.
	VERT.	1 IN.= 10 FT.
LAYOUT		1 IN.= 12,000 FT.





STATE MAP

NOTE
★ INDICATES APPROXIMATE LOCATION OF PROJECT.

LAT. 34° 43' 06" LONG. 89° 24' 38"
(APPROX. MIDDLE OF PROJECT)

RURAL COLLECTOR – REALIGNMENT
BRIDGE NUMBERS: 35.2, 35.4 & 35.6

DESIGN CONTROL
60 MPH = V (SPEED DESIGN)
ADT (2025) = 1,750 : ADT (2045) = 2,140
DHV = 250 : D = 60 % T= 7 %

RURAL COLLECTOR – 3R
BRIDGE NUMBERS: 33.6 & 34.1

DESIGN CONTROL
55 MPH = V (SPEED DESIGN)
ADT (2025) = 1,750 : ADT (2045) = 2,140
DHV = 250 : D = 60 % T= 7 %

PERMITS ACQUIRED BY MDOT

WETLANDS AND WATERS PERMITS

	WATERS	WETLANDS
NATIONWIDE #14	N	N
NATIONWIDE (OTHER)*	Y	Y
GENERAL*	N	N
INDIVIDUAL (404)*	N	N

STORMWATER PERMIT Y

Y	REQUIRED, CNOI SUBMITTED BY MDOT (DISTURBED AREA = 5 ACRES)
S	REQUIRED, SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES)
N	NO STORMWATER PERMIT REQUIRED (<1 ACRE)

APPROVED BY:

ROADWAY HYDRAULICS TRAFFIC

EQUATIONS

STA. 471+30.377 BK = STA. 471+30.900 AH = – 0.523'

CONVENTIONAL SYMBOLS

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

LENGTH DATA

	BRIDGE 33.6		BRIDGE 34.1		BRIDGES 35.2, 35.4, 35.6		PROJECT TOTALS	
LENGTH OF ROADWAY	1,875.000 FT.	0.355 MI.	1,949.477 FT.	0.369 MI.	5,220.00 FT.	0.989 MI.	9,044.477 FT.	1.713 MI.
LENGTH OF BRIDGES	100.000 FT.	0.019 MI.	0.000 FT.	0.000 MI.	880.000 FT.	0.167 MI.	980.000 FT.	0.186 MI.
LENGTH OF PROJECT (NET)		0.374 MI.		0.369 MI.		1.156 MI.		1.899 MI.
LENGTH OF EXCEPTIONS	0.000 FT.	0.000 MI.	0.000 FT.	0.000 MI.	0.000 FT.	0.000 MI.	0.000 FT.	0.000 MI.
LENGTH OF PROJECT (GROSS)		0.374 MI.		0.369 MI.		1.156 MI.		1.899 MI.

PRELIMINARY
NOT FOR
CONSTRUCTION

P S & E DATE:

APPROVED:

DEPUTY EXECUTIVE DIRECTOR / CHIEF ENGINEER

EXECUTIVE DIRECTOR

REVISIONS BY DATE

MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TITLE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

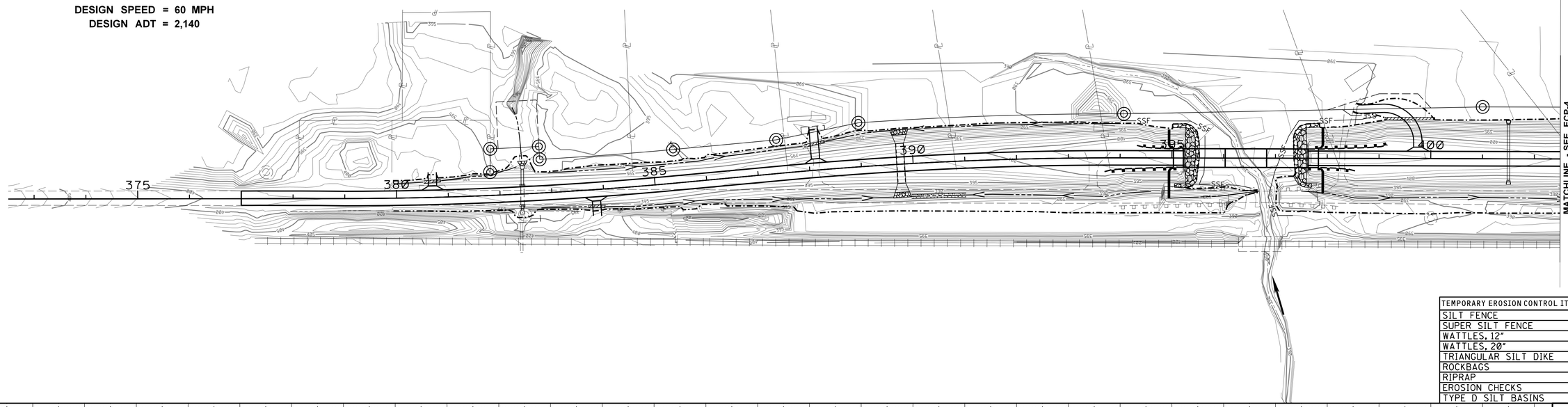
5/17/2022 11:46:29 AM TLE.DGN

FMS CON: 106103/301000

STATE	PROJECT NO.
MISS.	BR-2909-00(006)

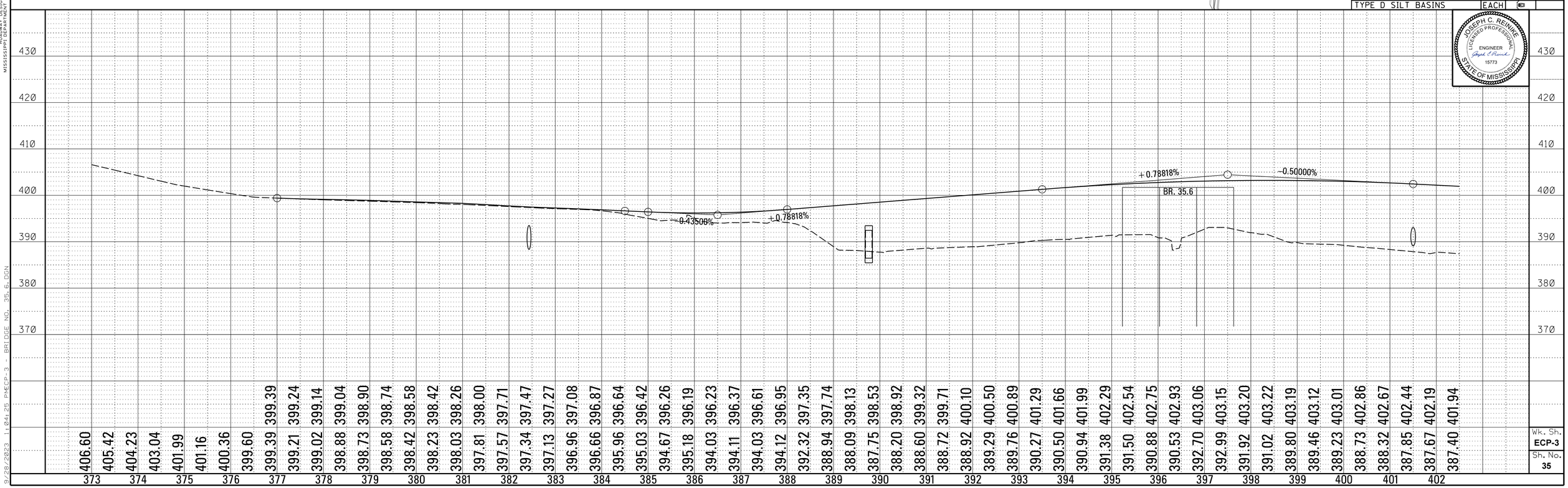
0 100' 200'

BRIDGE NO. 35.6
DESIGN SPEED = 60 MPH
DESIGN ADT = 2,140



TEMPORARY EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
SILT FENCE	L.F.	—SF—	
SUPER SILT FENCE	L.F.	—SSF—	
WATTLES, 12"	L.F.		
WATTLES, 20"	L.F.		
TRIANGULAR SILT DIKE	L.F.		
ROCKBAGS	L.F.		
RIPRAP	TON		
EROSION CHECKS	BALE		
TYPE D SILT BASINS	EACH		

JOSEPH C. REINKE
LICENSED PROFESSIONAL ENGINEER
15773
STATE OF MISSISSIPPI



PLAN-PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

9/28/2023 1:04:25 PM ECP-3 - BRIDGE NO. 35.6.DGN

Wk. Sh. ECP-3
Sh. No. 35

DESIGN TEAM: STANTEC FILENAME: WK-3 - BRIDGE NO. 35.6.dgn COUNTY: MARSHALL PROJECT NO.: BR-2909-00(006) SHEET ID: SR178 - BRIDGE NO. 35.6

FMS CON: 106103/301000

STATE	PROJECT NO.
MISS.	BR-2909-00(006)

1. HAUL ROAD AND/OR BRIDGE ARE ALLOWABLE CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR MAY REQUEST MODIFICATIONS TO THE CLEARING LIMITS SHOWN AS NEEDED. ANY MODIFICATIONS REQUESTED WILL NEED TO BE SUBMITTED TO MDOT PRIOR TO PROCEEDING.

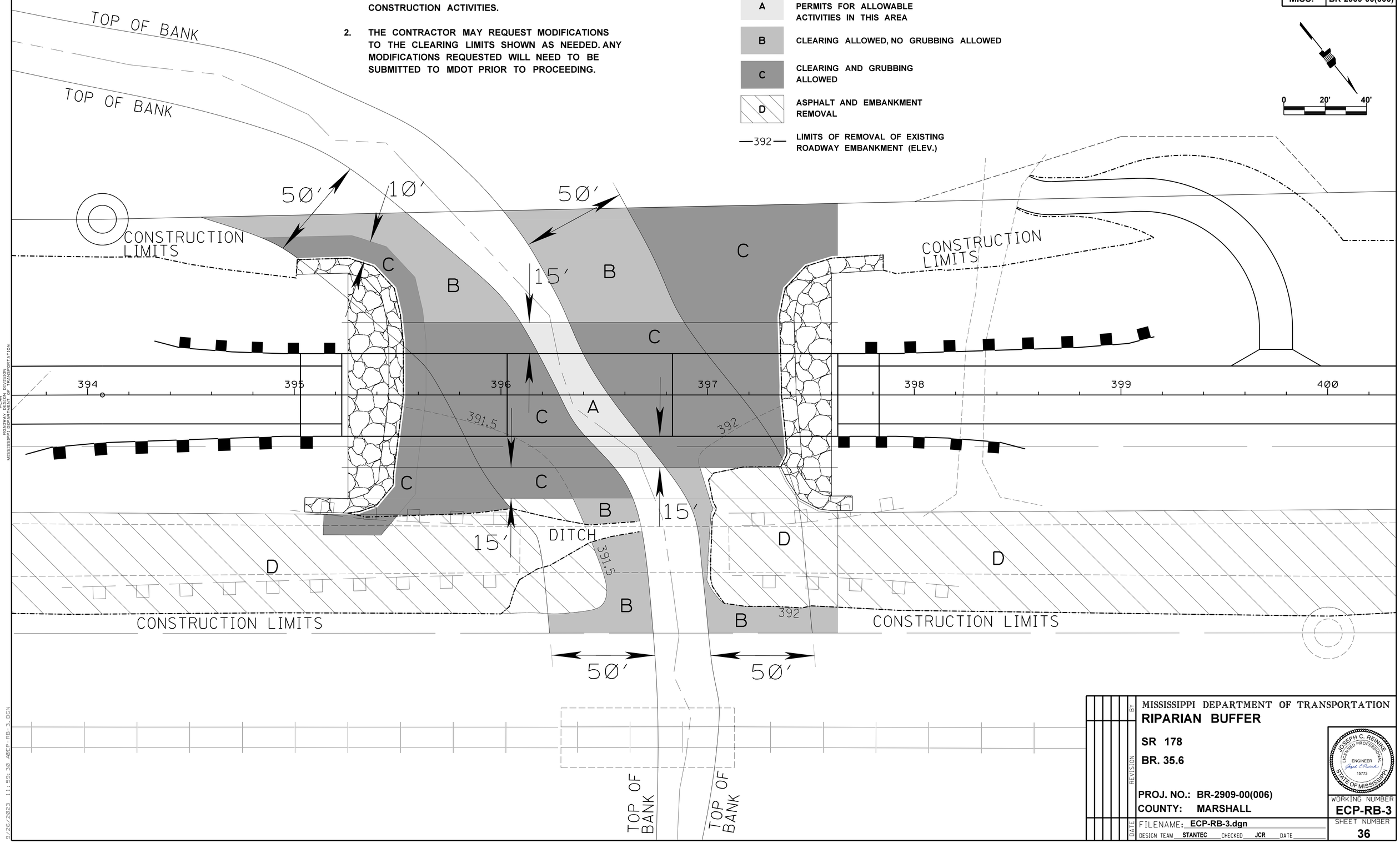
A — REFER TO THE 404 AND 401 PERMITS FOR ALLOWABLE ACTIVITIES IN THIS AREA

B — CLEARING ALLOWED, NO GRUBBING ALLOWED

C — CLEARING AND GRUBBING ALLOWED

D — ASPHALT AND EMBANKMENT REMOVAL

—392— LIMITS OF REMOVAL OF EXISTING ROADWAY EMBANKMENT (ELEV.)



PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

9/26/2023 11:59:30 ECP-RB-3.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

RIPARIAN BUFFER

SR 178

BR. 35.6

PROJ. NO.: BR-2909-00(006)

COUNTY: MARSHALL

REVISION | BY | DATE

FILENAME: ECP-RB-3.dgn

DESIGN TEAM STANTEC CHECKED JCR DATE

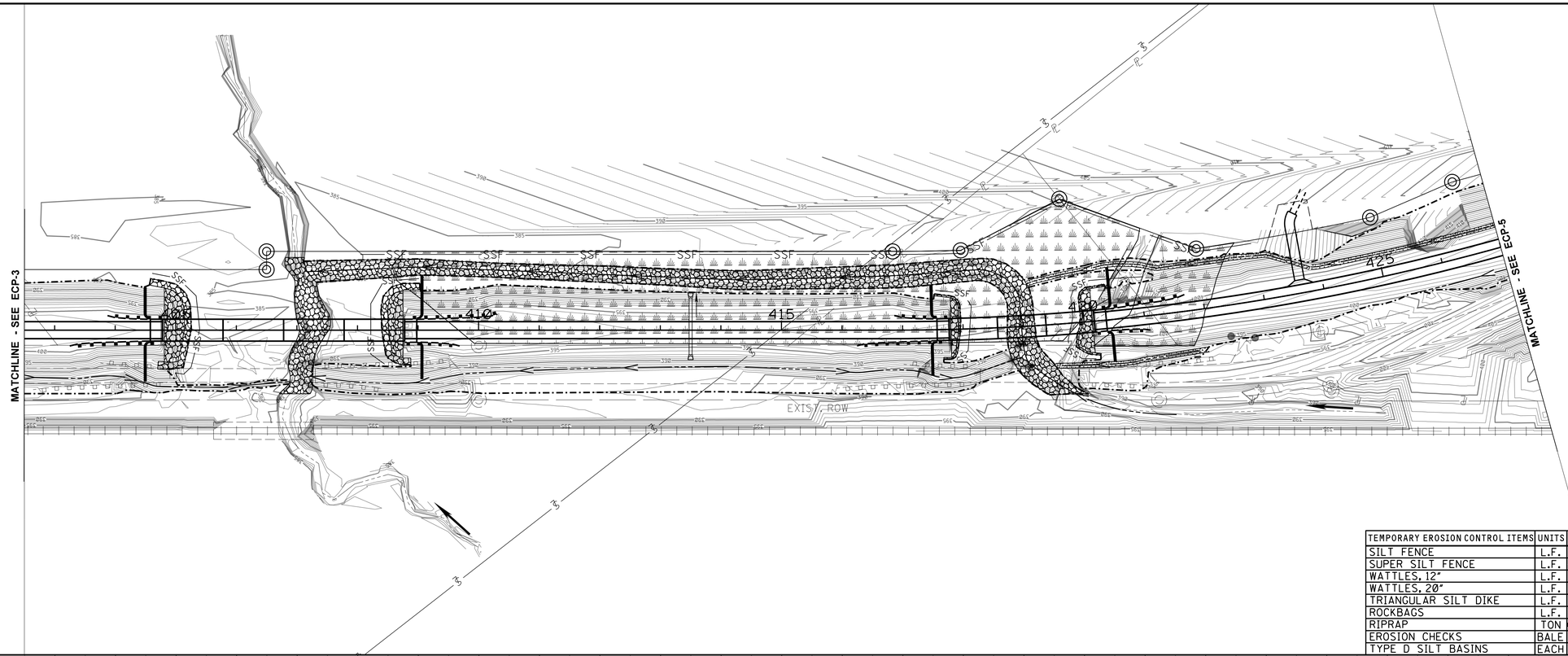
JOSEPH C. REIMINE — LICENSED PROFESSIONAL ENGINEER 15773 — STATE OF MISSISSIPPI

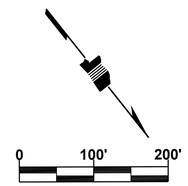
WORKING NUMBER **ECP-RB-3**

SHEET NUMBER **36**

FMS CON: 106103/301000

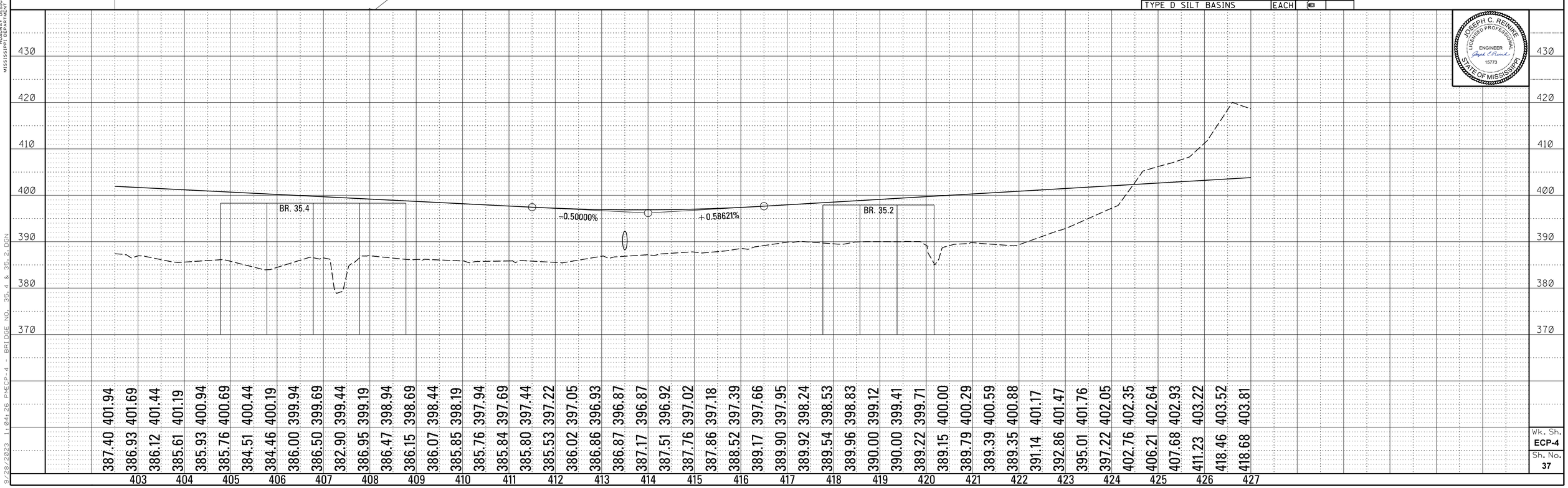
STATE	PROJECT NO.
MISS.	BR-2909-00(006)





BRIDGE NO. 35.4 & 35.2
DESIGN SPEED = 60 MPH
DESIGN ADT = 2,140

TEMPORARY EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
SILT FENCE	L.F.	—SF—	
SUPER SILT FENCE	L.F.	—SSF—	
WATTLES, 12"	L.F.		
WATTLES, 20"	L.F.		
TRIANGULAR SILT DIKE	L.F.		
ROCKBAGS	L.F.		
RIPRAP	TON		
EROSION CHECKS	BALE		
TYPE D SILT BASINS	EACH		



JOSEPH C. REINITE
LICENSED PROFESSIONAL ENGINEER
15773
STATE OF MISSISSIPPI

Wk. Sh. ECP-4
Sh. No. 37

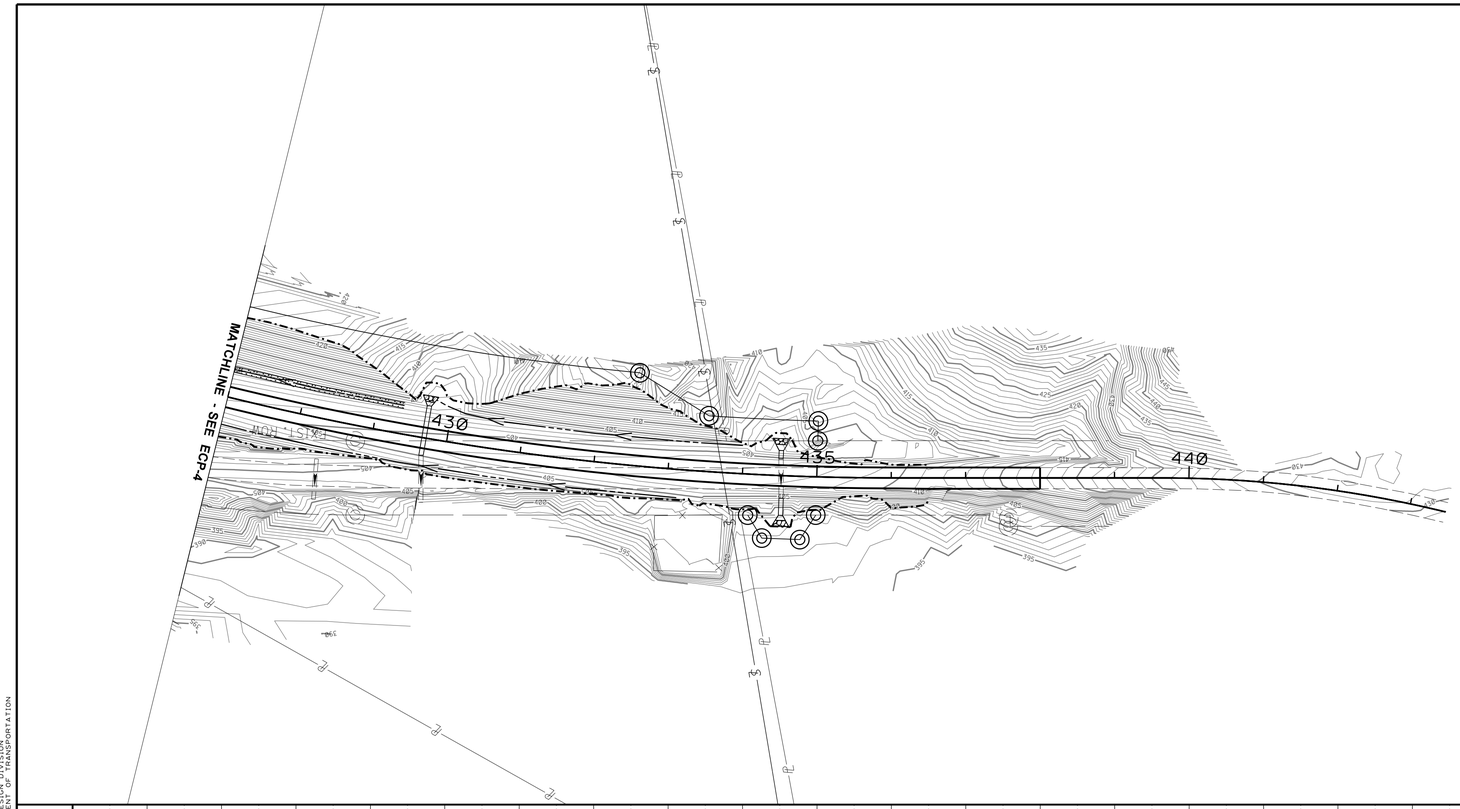
PLAN-PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

9/28/2023 1:04:26 PMECP-4 - BRIDGE NO. 35.4 & 35.2.DGN

DESIGN TEAM: STANTEC | FILENAME: WK-4 - BRIDGE NO. 35.4 & 35.2.dgn | COUNTY: MARSHALL | PROJECT NO.: BR-2909-00(006) | SHEET ID: SR178 - BRIDGE NO. 35.4 & 35.2

FMS CON: 106103/301000

STATE	PROJECT NO.
MISS.	BR-2909-00(006)

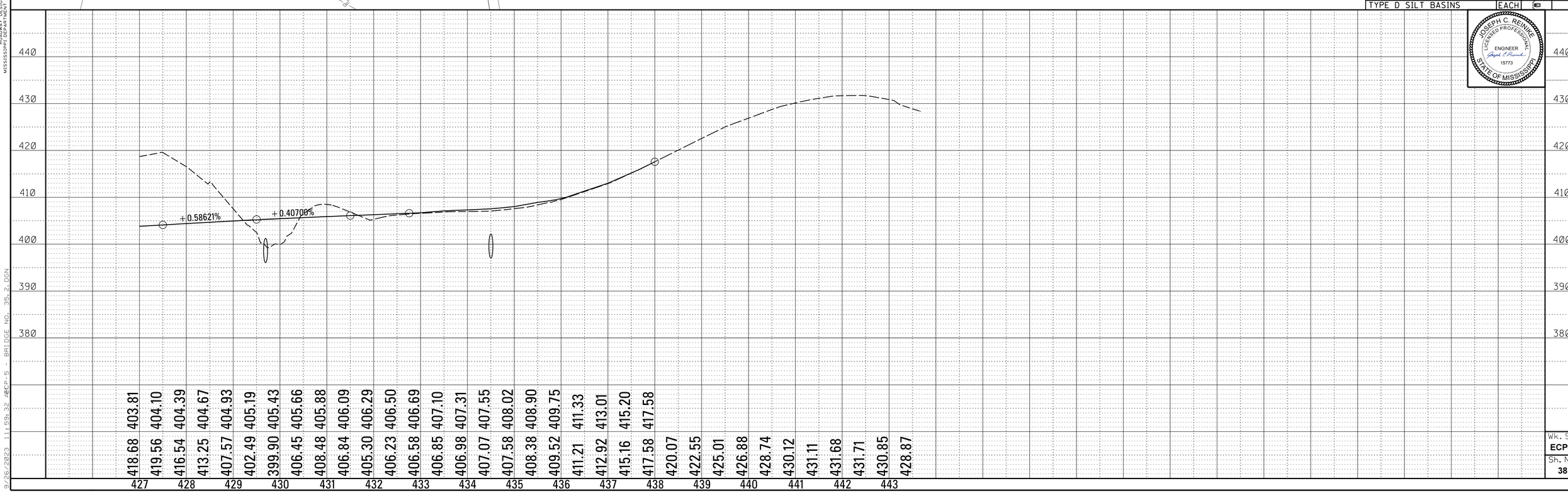


0 100' 200'

BRIDGE NO. 35.2
DESIGN SPEED = 60 MPH
DESIGN ADT = 2,140

TEMPORARY EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
SILT FENCE	L.F.	—SF—	
SUPER SILT FENCE	L.F.	—SSF—	
WATTLES, 12"	L.F.		
WATTLES, 20"	L.F.		
TRIANGULAR SILT DIKE	L.F.		
ROCKBAGS	L.F.		
RIPRAP	TON		
EROSION CHECKS	BALE		
TYPE D SILT BASINS	EACH		

JOSEPH C. REINITE
LICENSED PROFESSIONAL ENGINEER
15773
STATE OF MISSISSIPPI



Wk. Sh. ECP-5
Sh. No. 38

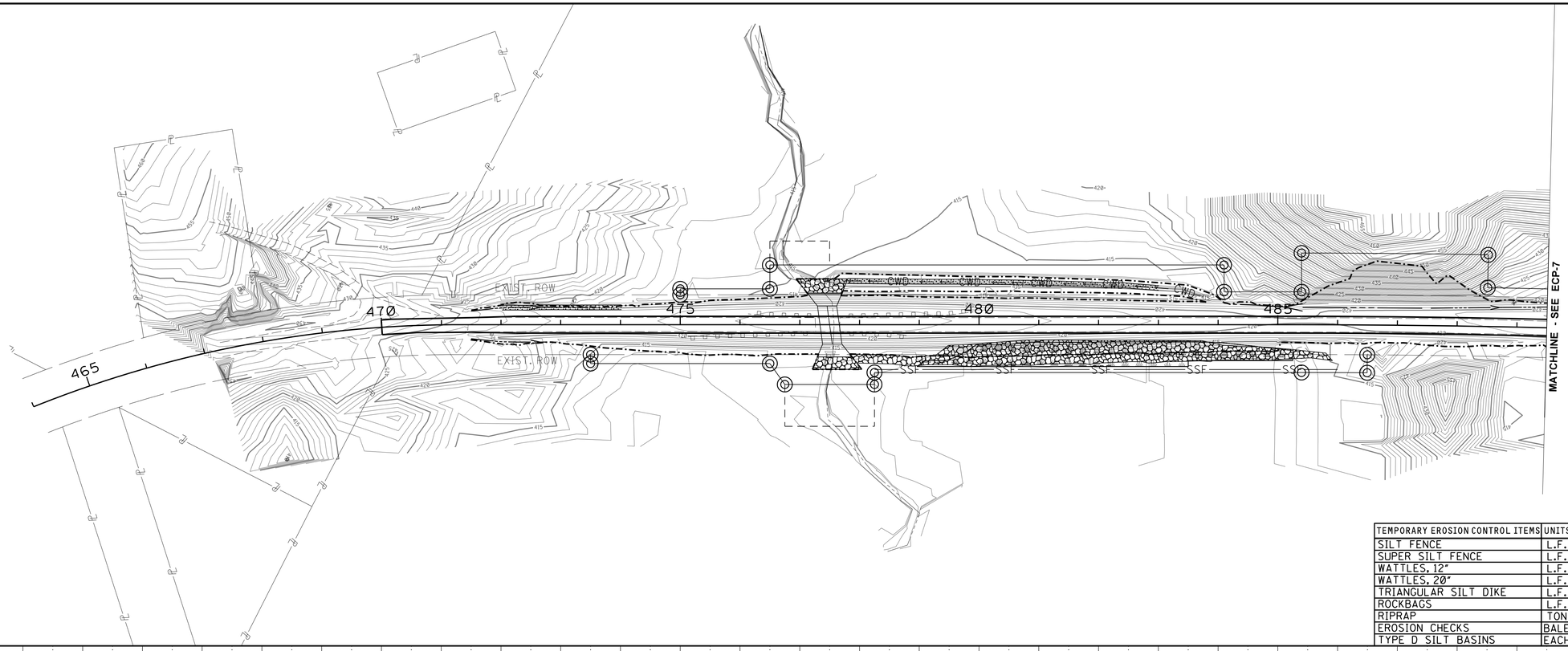
PLAN-PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

9/26/2023 11:59:32 ECP-5 - BRIDGE NO. 35.2.DGN

DESIGN TEAM: STANTEC FILENAME: WK-5 - BRIDGE NO. 35.2.dgn COUNTY: MARSHALL PROJECT NO.: BR-2909-00(006) SHEET ID: SR178 - BRIDGE NO. 35.2

FMS CON: 106103/301000

STATE	PROJECT NO.
MISS.	BR-2909-00(006)

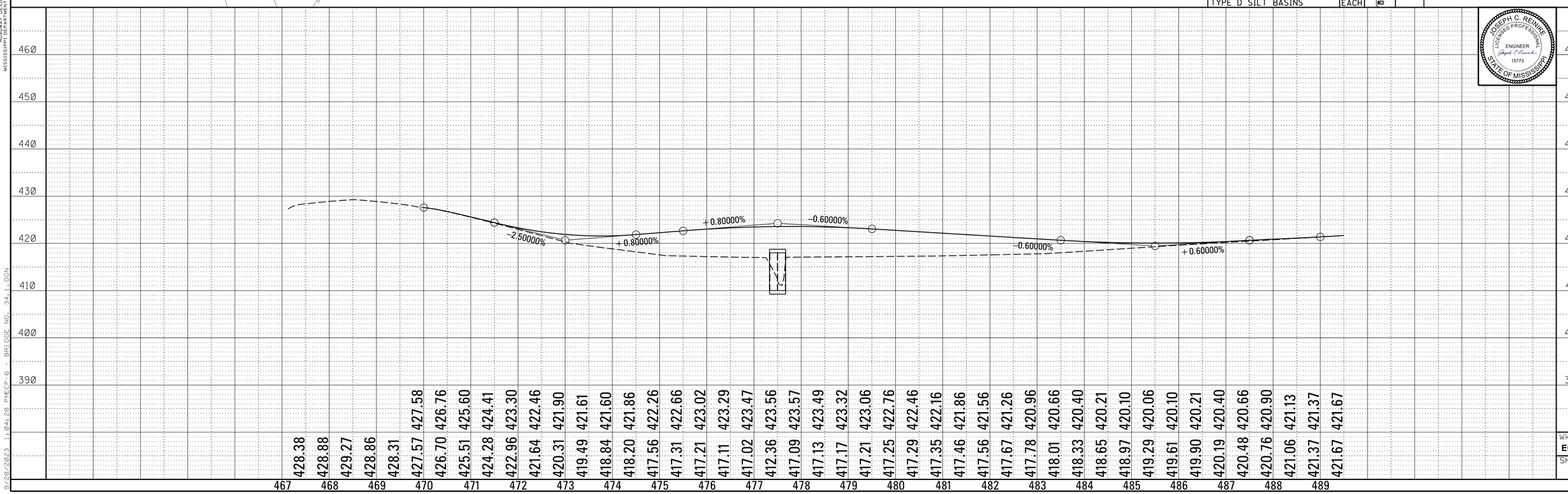


TEMPORARY EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
SILT FENCE	L.F.	—SF—	
SUPER SILT FENCE	L.F.	—SSF—	
WATTLES, 12"	L.F.		
WATTLES, 20"	L.F.		
TRIANGULAR SILT DIKE	L.F.		
ROCKBAGS	L.F.		
RIPRAP	TON		
EROSION CHECKS	BALE		
TYPE D SILT BASINS	EACH		

0 100' 200'

BRIDGE NO. 34.1
DESIGN SPEED = 55 MPH
DESIGN ADT = 2,140

JOSEPH C. REINKE
LICENSED PROFESSIONAL ENGINEER
15773
STATE OF MISSISSIPPI



Wk. Sh. ECP-6
Sh. No. 39

PLAN-PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

9/28/2023 1:04:28 PM ECP-6 - BRIDGE NO. 34.1.DGN

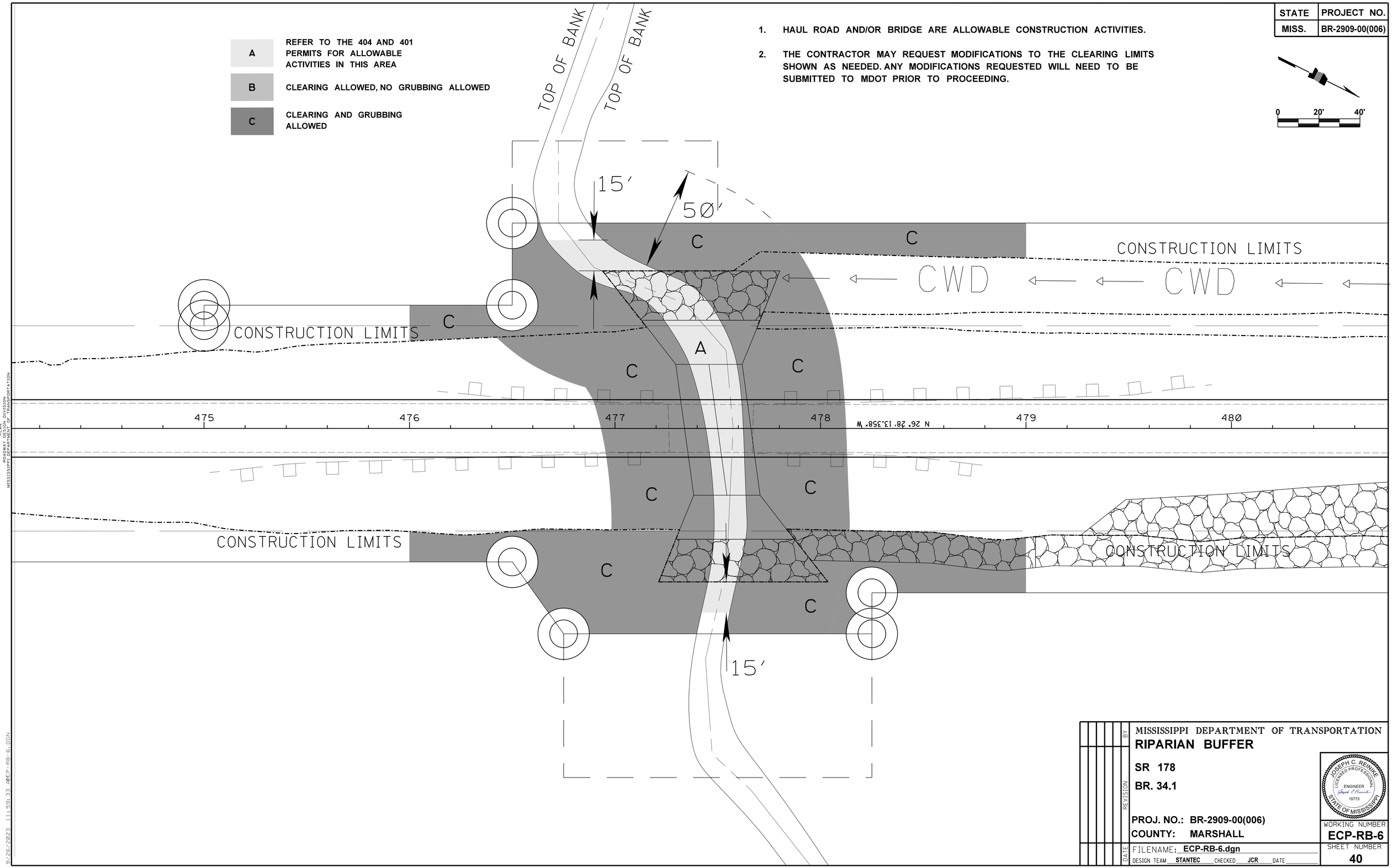
DESIGN TEAM: STANTEC | FILENAME: WK-6 - BRIDGE NO. 34.1.dgn | COUNTY: MARSHALL | PROJECT NO.: BR-2909-00(006) | SHEET ID: SR178 - BRIDGE NO. 34.1

FMS CON: 106103/301000

STATE	PROJECT NO.
MISS.	BR-2909-00(006)

A	REFER TO THE 404 AND 401 PERMITS FOR ALLOWABLE ACTIVITIES IN THIS AREA
B	CLEARING ALLOWED, NO GRUBBING ALLOWED
C	CLEARING AND GRUBBING ALLOWED

1. HAUL ROAD AND/OR BRIDGE ARE ALLOWABLE CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR MAY REQUEST MODIFICATIONS TO THE CLEARING LIMITS SHOWN AS NEEDED. ANY MODIFICATIONS REQUESTED WILL NEED TO BE SUBMITTED TO MDOT PRIOR TO PROCEEDING.



PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

9/26/2023 11:59:33 AECP-RB-6.DGN

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

RIPARIAN BUFFER

SR 178

BR. 34.1

PROJ. NO.: BR-2909-00(006)

COUNTY: MARSHALL

REVISION | BY | DATE

FILENAME: ECP-RB-6.dgn

DESIGN TEAM STANTEC CHECKED JCR DATE

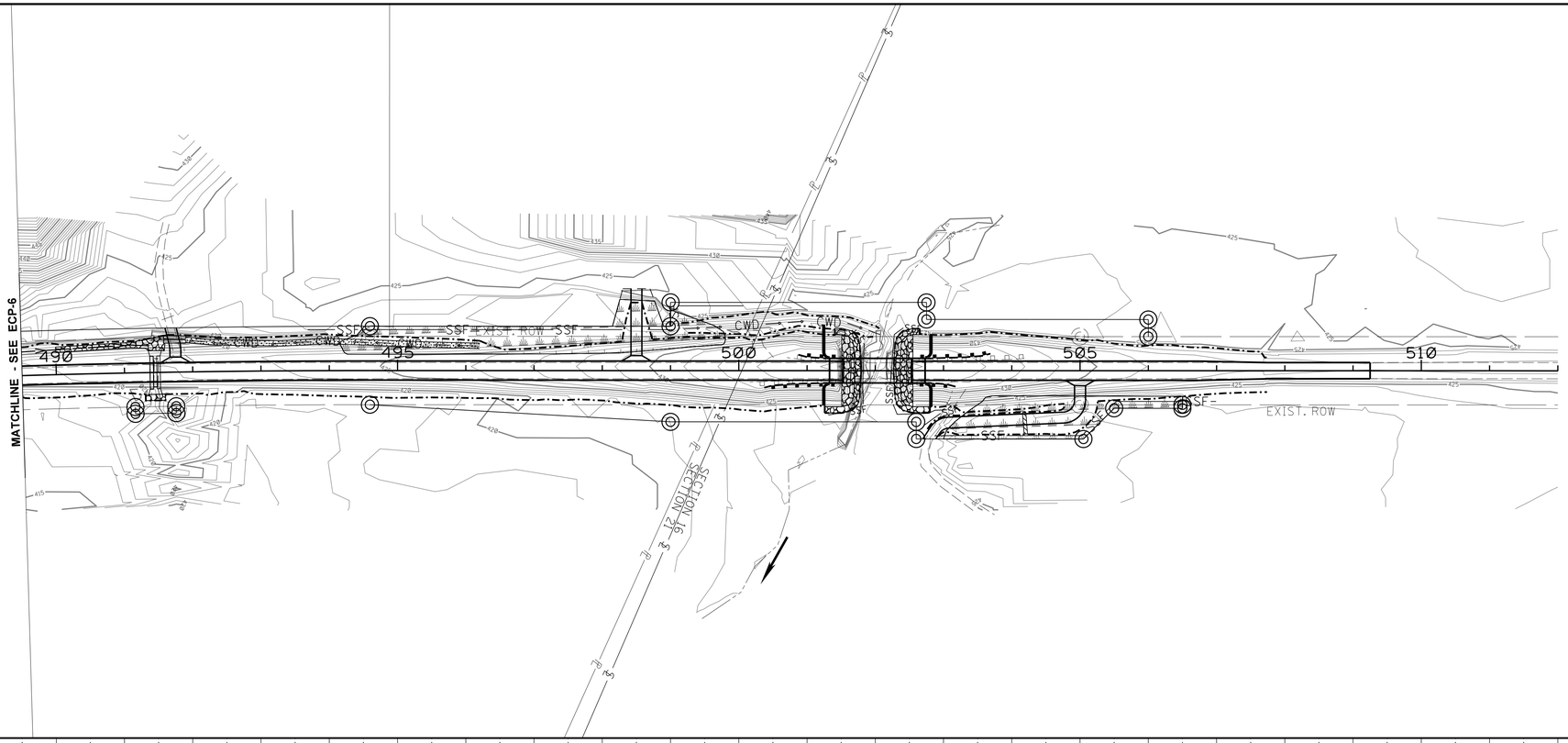
JOSEPH C. RENNIE
LICENSED PROFESSIONAL
ENGINEER
15773
STATE OF MISSISSIPPI

WORKING NUMBER
ECP-RB-6

SHEET NUMBER
40

FMS CON: 106103/301000

STATE	PROJECT NO.
MISS.	BR-2909-00(006)

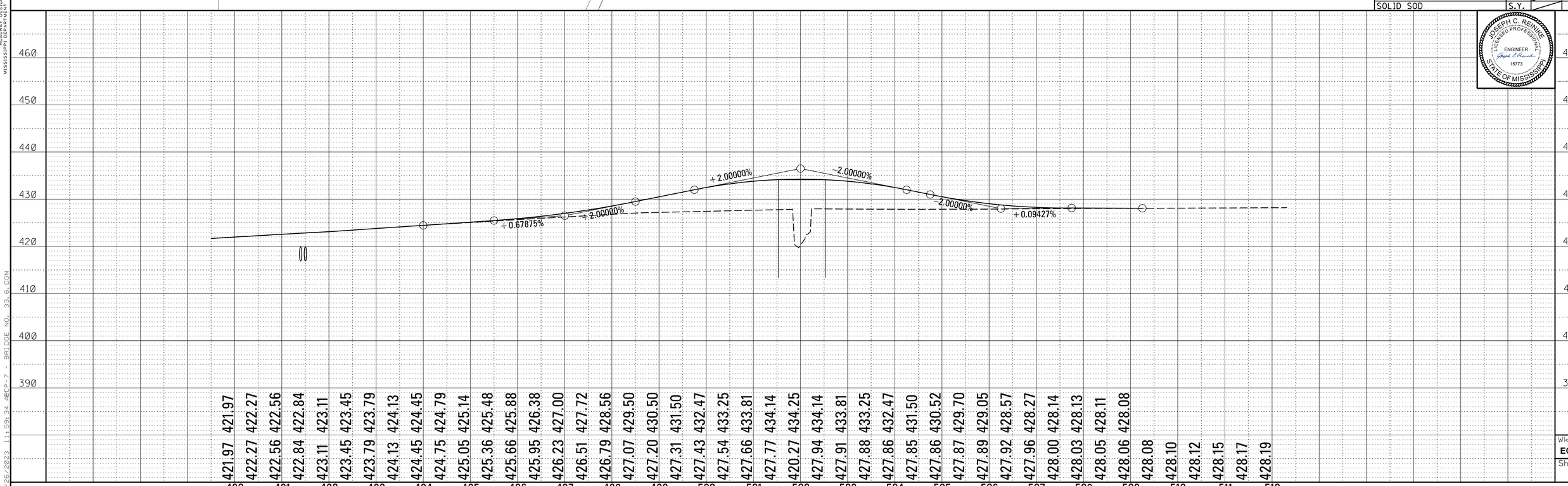


0 100' 200'

BRIDGE NO. 33.6
DESIGN SPEED = 55 MPH
DESIGN ADT = 2,140

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.		

JOSEPH C. REINKE
LICENSED PROFESSIONAL ENGINEER
15773
STATE OF MISSISSIPPI



Wk. Sh. ECP-7
Sh. No. 41

PLAN-PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

9/26/2023 11:59:34 ECP-7 BRIDGE NO. 33.6.DGN

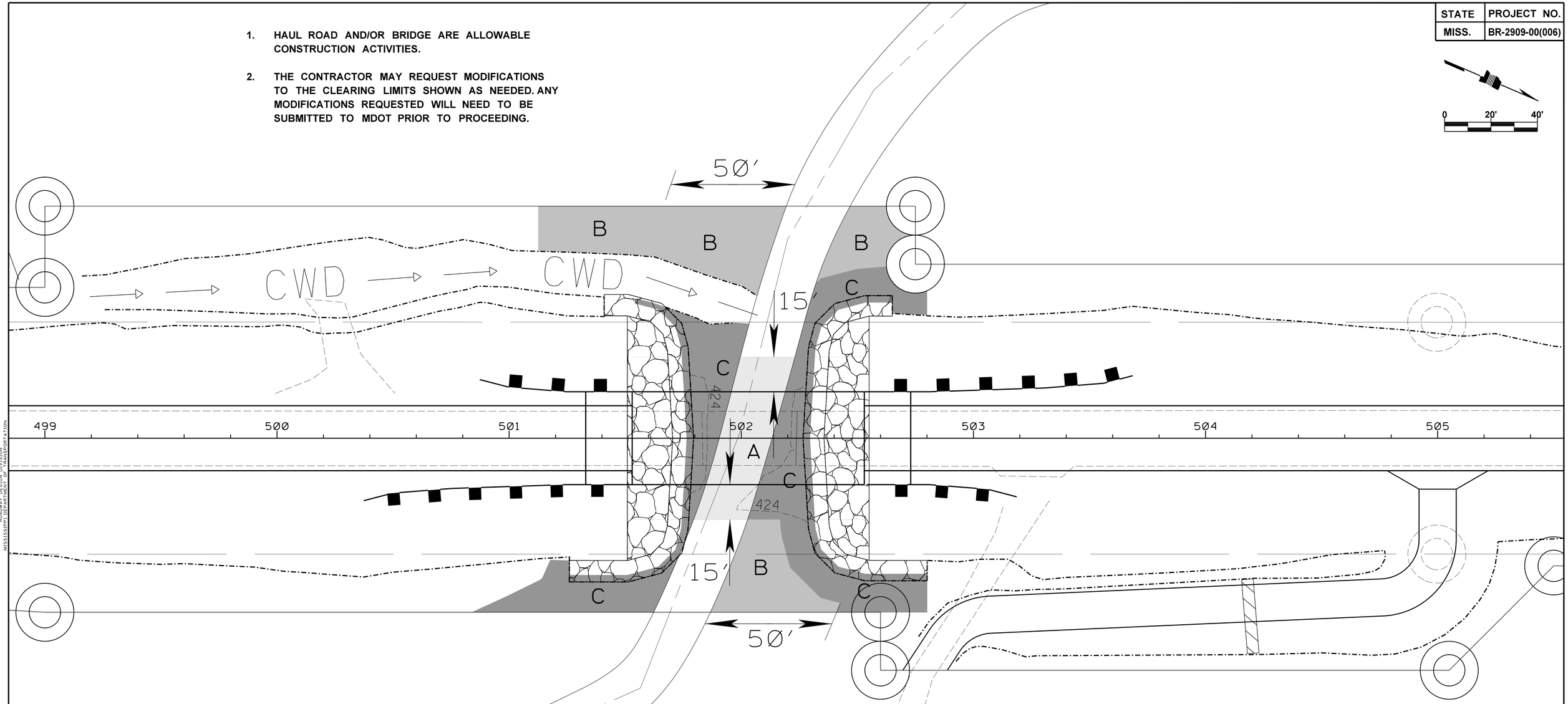
DESIGN TEAM: STANTEC FILENAME: WK-7 - BRIDGE NO. 33.6.dgn COUNTY: MARSHALL PROJECT NO.: BR-2909-00(006) SHEET ID: SR178 - BRIDGE NO. 33.6

FMS CON: 106103/301000

STATE	PROJECT NO.
MISS.	BR-2909-00(006)

1. HAUL ROAD AND/OR BRIDGE ARE ALLOWABLE CONSTRUCTION ACTIVITIES.

2. THE CONTRACTOR MAY REQUEST MODIFICATIONS TO THE CLEARING LIMITS SHOWN AS NEEDED. ANY MODIFICATIONS REQUESTED WILL NEED TO BE SUBMITTED TO MDOT PRIOR TO PROCEEDING.



A	REFER TO THE 404 AND 401 PERMITS FOR ALLOWABLE ACTIVITIES IN THIS AREA
B	CLEARING ALLOWED, NO GRUBBING ALLOWED
C	CLEARING AND GRUBBING ALLOWED
—392—	LIMITS OF REMOVAL OF EXISTING ROADWAY EMBANKMENT (ELEV.)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

RIPARIAN BUFFER

SR 178

BR. 33.6

PROJ. NO.: BR-2909-00(006)

COUNTY: MARSHALL

JOSEPH C. RENNIE
LICENSED PROFESSIONAL ENGINEER
15773
STATE OF MISSISSIPPI

WORKING NUMBER
ECP-RB-7

SHEET NUMBER
42

REVISION | BY | DATE

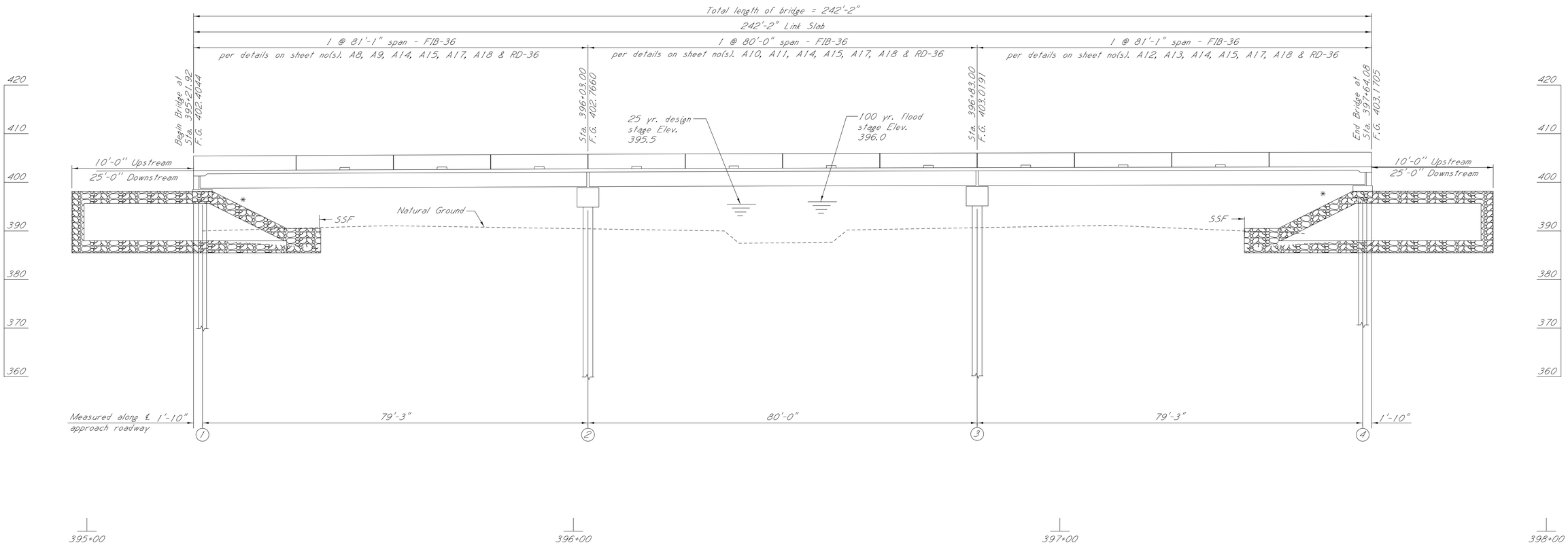
FILENAME: ECP-RB-7.dgn

DESIGN TEAM STANTEC CHECKED JCR DATE

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

9/26/2023 11:59:35 AECP-RB-7.DGN

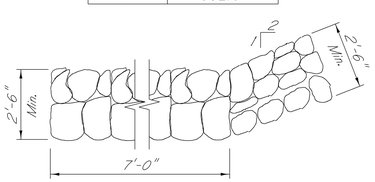
STATE	PROJECT NO.
MISS.	BR-2909-00(006)



EROSION CONTROL ELEVATION

Scale 1" : 10'-0"

500 Yr. Scour Evaluations	
Bent	Elevation
1	388.2
2	380.7
3	381.7
4	392.0



RIPRAP APRON DETAILS

NOTE:
Geotextile fabric is required under all riprap.

***NOTE:**
2:1 slope ⊥ end bent

NOTE:
1. No dirt can be pushed into the creek.
2. If a platform for working is needed, then riprap may be used. Cost to be absorbed.
3. Minimize disturbance to existing banks.
4. If the bent is in close proximity to the banks, then riprap shall be placed on slopes immediately after pile driving.
5. Riprap shall be placed on the slopes immediately after pile driving.
6. Clearing should be kept to a minimum and grubbing only where required.

Gresham Smith

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS | BY | DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 395+21.92
SR 178 OVER
BIG SPRING CREEK
BRIDGE EROSION CONTROL ELEVATION

PROJECT 106103/301000
BR-2909-00(006)

MARSHALL COUNTY

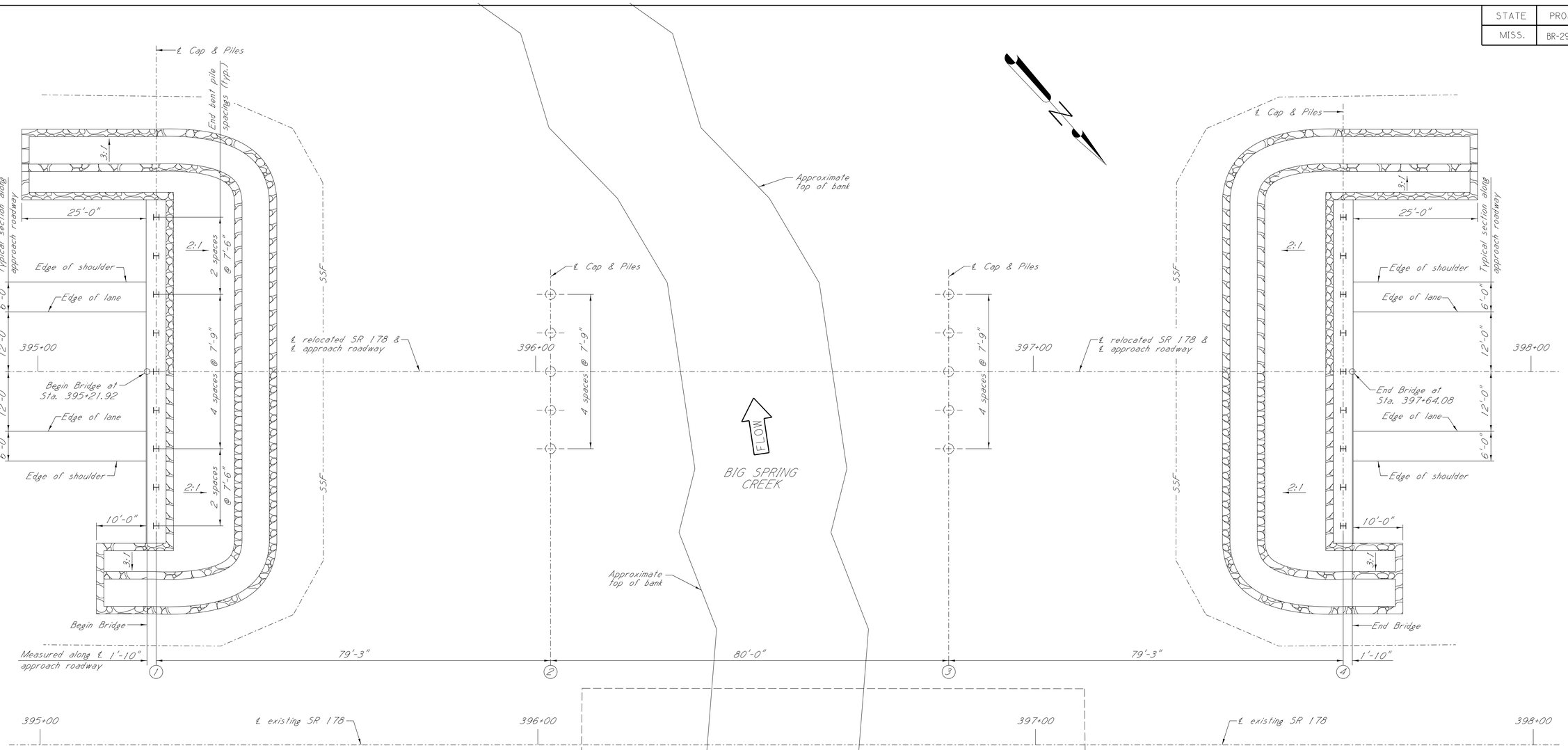
WORKING NUMBER ECBR-1A

DESIGNER COURTNEY ROME CHECKER EMERY SAYRE
DETAILER RUTH STEELE ISSUE DATE 08/29/2022
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - MICAH DEW, P.E.

SHEET NUMBER 8081

OFFICE REVIEW

STATE	PROJECT NO.
MISS.	BR-2909-00(006)



NOTE:

1. No dirt can be pushed into the creek.
2. If a platform for working is needed, then riprap may be used. Cost to be absorbed.
3. Minimize disturbance to existing banks.
4. If the bent is in close proximity to the banks, then riprap shall be placed on slopes immediately after pile driving.
5. Riprap shall be placed on the slopes immediately after pile driving.
6. Clearing should be kept to a minimum and grubbing only where required.

NOTE:

Approximate Western and Eastern right-of-way limits not shown due to sheet scale.

EROSION CONTROL PLAN

Scale 1" : 10'-0"

*NOTE:

2:1 slope ⊥ end bent

Gresham Smith

PRELIMINARY NOT FOR CONSTRUCTION

DATE	REVISIONS	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 395+21.92
SR 178 OVER
BIG SPRING CREEK
BRIDGE EROSION CONTROL PLAN

PROJECT 106103/301000
BR-2909-00(006)

MARSHALL COUNTY

WORKING NUMBER ECBR-2A

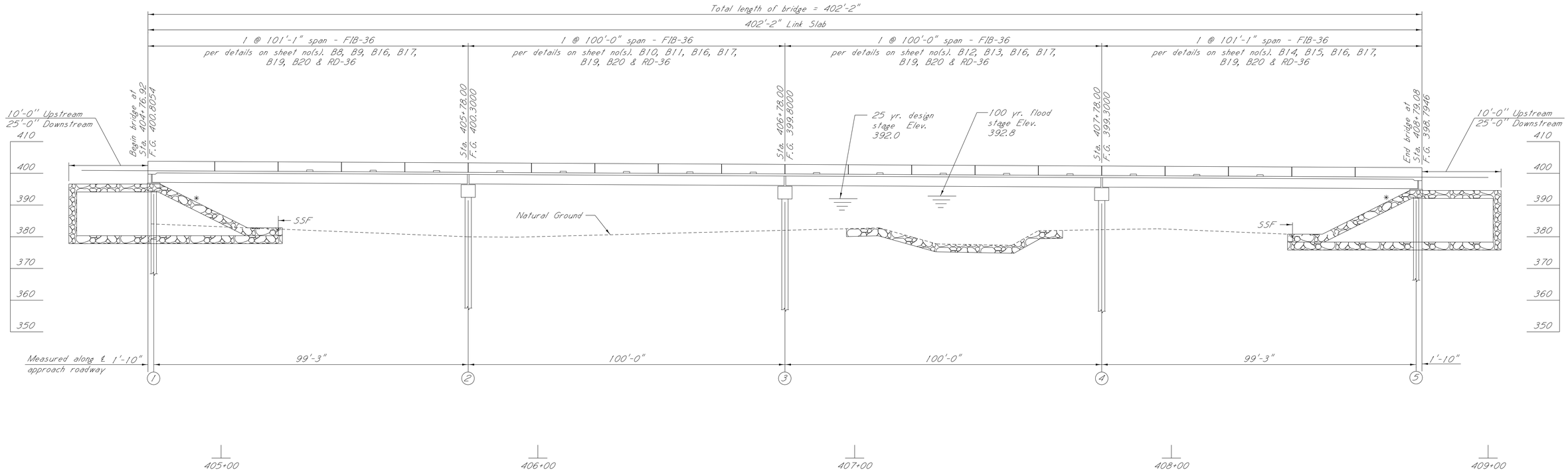
DESIGNER COURTNEY ROME
DETAILER RUTH STEELE
CHECKER EMERY SAYRE
ISSUE DATE 08/29/2022

DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - MICAH DEW, P.E.

SHEET NUMBER 8082

OFFICE REVIEW

STATE	PROJECT NO.
MISS.	BR-2909-00(006)



EROSION CONTROL ELEVATION

Scale 1" : 15'-0"

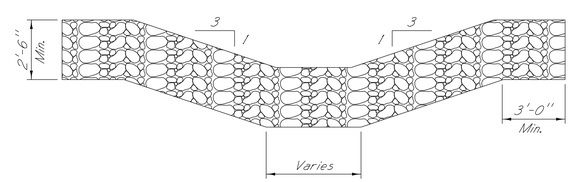
500 Yr. Scour Evaluations	
Bent	Elevation
1	383.0
2	378.7
3	372.2
4	367.2
5	386.4

*NOTE:

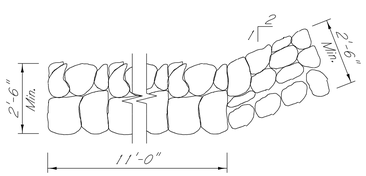
2:1 slope ⊥ end bent

NOTE:

1. No dirt can be pushed into the creek.
2. If a platform for working is needed, then riprap may be used. Cost to be absorbed.
3. Minimize disturbance to existing banks.
4. If the bent is in close proximity to the banks, then riprap shall be placed on slopes immediately after pile driving.
5. Riprap shall be placed on the slopes immediately after pile driving.
6. Clearing should be kept to a minimum and grubbing only where required.



TYPICAL CHANNEL CROSS SECTION



RIPRAP APRON DETAILS

NOTE:

Geotextile fabric is required under all riprap.

Gresham Smith

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS | BY | DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 404+76.92
SR 178 OVER
BIG SPRING CREEK TRIBUTARY
BRIDGE EROSION CONTROL ELEVATION

PROJECT 106103/301000
BR-2909-00(006)

MARSHALL COUNTY

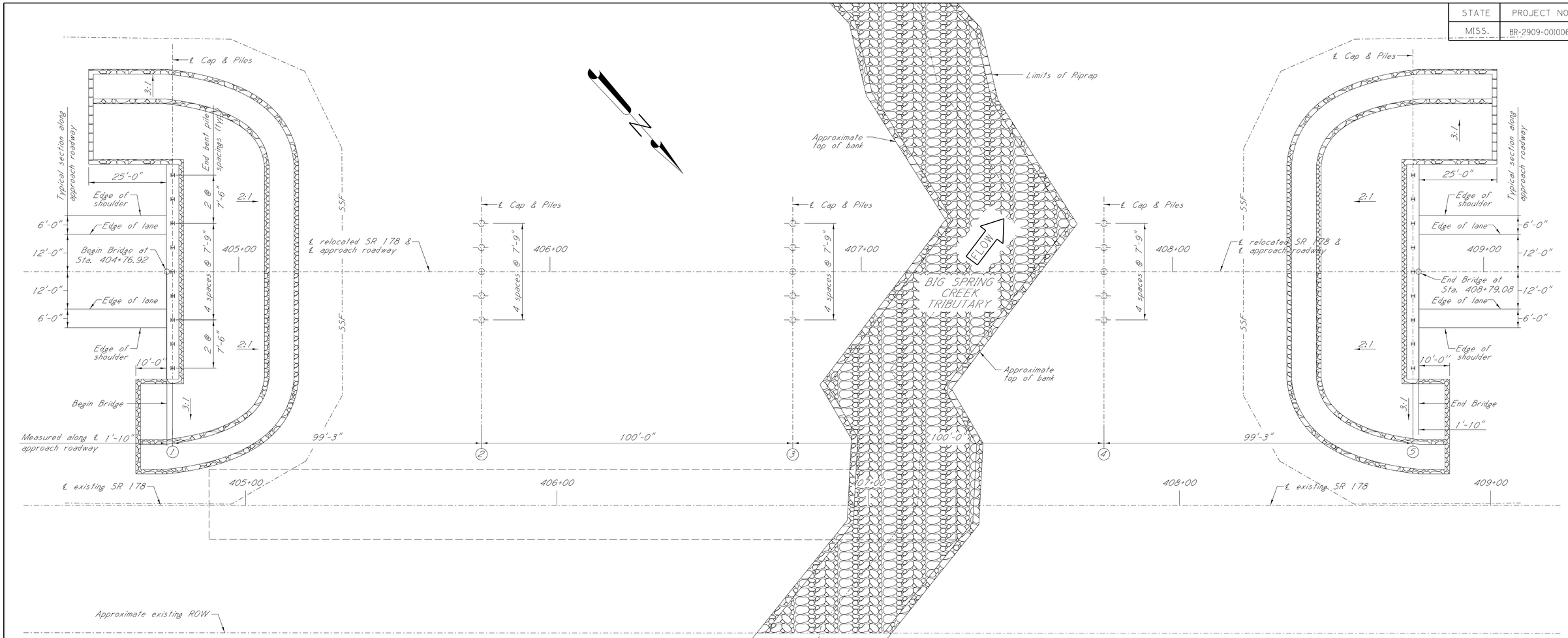
WORKING NUMBER ECBR-1B

DESIGNER COURTNEY ROME CHECKER EMERY SAYRE
DETAILER RUTH STEELE ISSUE DATE 08/29/2022
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - MICAH DEW, P.E.

SHEET NUMBER 8083

OFFICE REVIEW

STATE	PROJECT NO.
MISS.	BR-2909-00(006)



EROSION CONTROL PLAN

Scale 1" : 15'-0"

NOTE:

1. No dirt can be pushed into the creek.
2. If a platform for working is needed, then riprap may be used. Cost to be absorbed.
3. Minimize disturbance to existing banks.
4. If the bent is in close proximity to the banks, then riprap shall be placed on slopes immediately after pile driving.
5. Riprap shall be placed on the slopes immediately after pile driving.
6. Clearing should be kept to a minimum and grubbing only where required.

NOTE:

Approximate Eastern right-of-way shown. See Roadway sheets for right-of-way details.

NOTE:

Approximate Western right-of-way limit not shown due to sheet scale.

*NOTE:

2:1 slope ⊥ end bent

Gresham Smith

PRELIMINARY NOT FOR CONSTRUCTION

DATE	REVISIONS	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 404+76.92
SR 178 OVER
BIG SPRING CREEK TRIBUTARY
BRIDGE EROSION CONTROL PLAN

PROJECT 106103/301000
BR-2909-00(006)

MARSHALL COUNTY

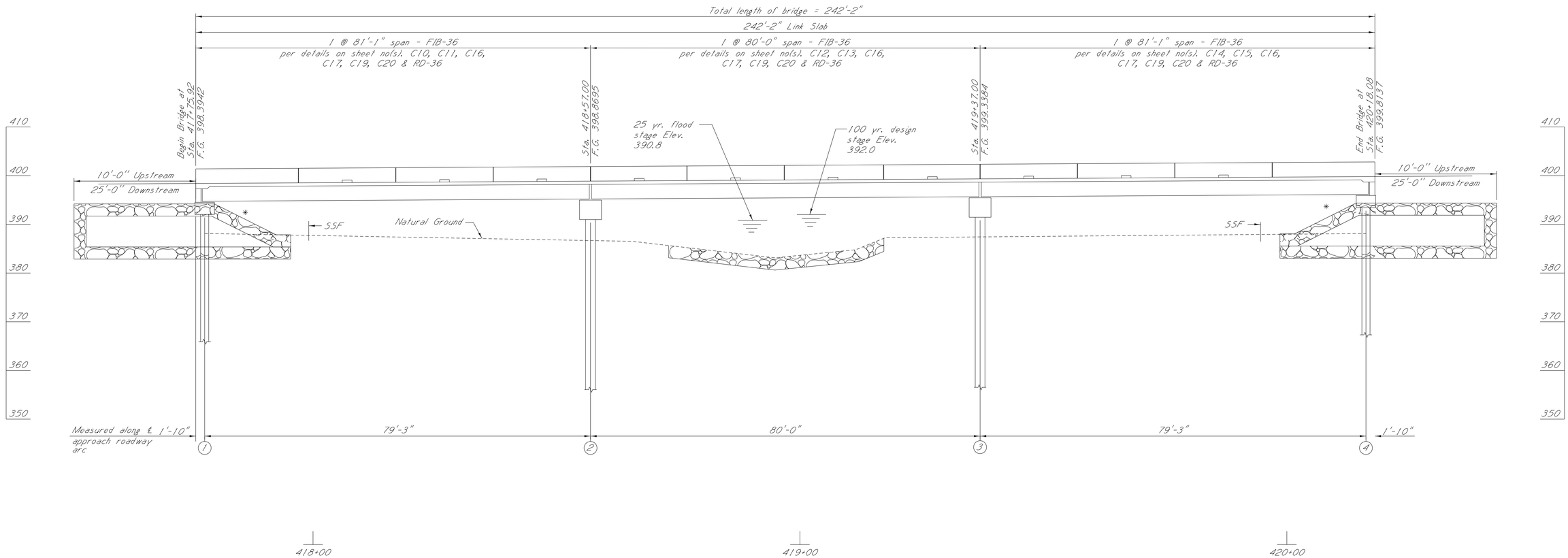
WORKING NUMBER ECBR-2B

DESIGNER COURTNEY ROME CHECKER EMERY SAYRE
DETAILER RUTH STEELE ISSUE DATE 08/29/2022
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - MICAH DEW, P.E.

SHEET NUMBER 8084

OFFICE REVIEW

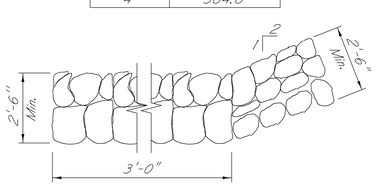
STATE	PROJECT NO.
MISS.	BR-2909-00(006)



EROSION CONTROL ELEVATION

Scale 1" : 10'-0"

500 Yr. Scour Evaluations	
Bent	Elevation
1	389.8
2	372.3
3	373.3
4	384.8



RIPRAP APRON DETAILS

NOTE:
Geotextile fabric is required under all riprap.

***NOTE:**
2:1 slope ⊥ end bent

NOTE:
1. No dirt can be pushed into the creek.
2. If a platform for working is needed, then riprap may be used. Cost to be absorbed.
3. Minimize disturbance to existing banks.
4. If the bent is in close proximity to the banks, then riprap shall be placed on slopes immediately after pile driving.
5. Riprap shall be placed on the slopes immediately after pile driving.
6. Clearing should be kept to a minimum and grubbing only where required.

Gresham Smith

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS | BY | DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 417+75.92
SR 178 OVER
BIG SPRING CREEK TRIBUTARY
BRIDGE EROSION CONROL ELEVATION

PROJECT 106103/301000
BR-2909-00(006)

MARSHALL COUNTY

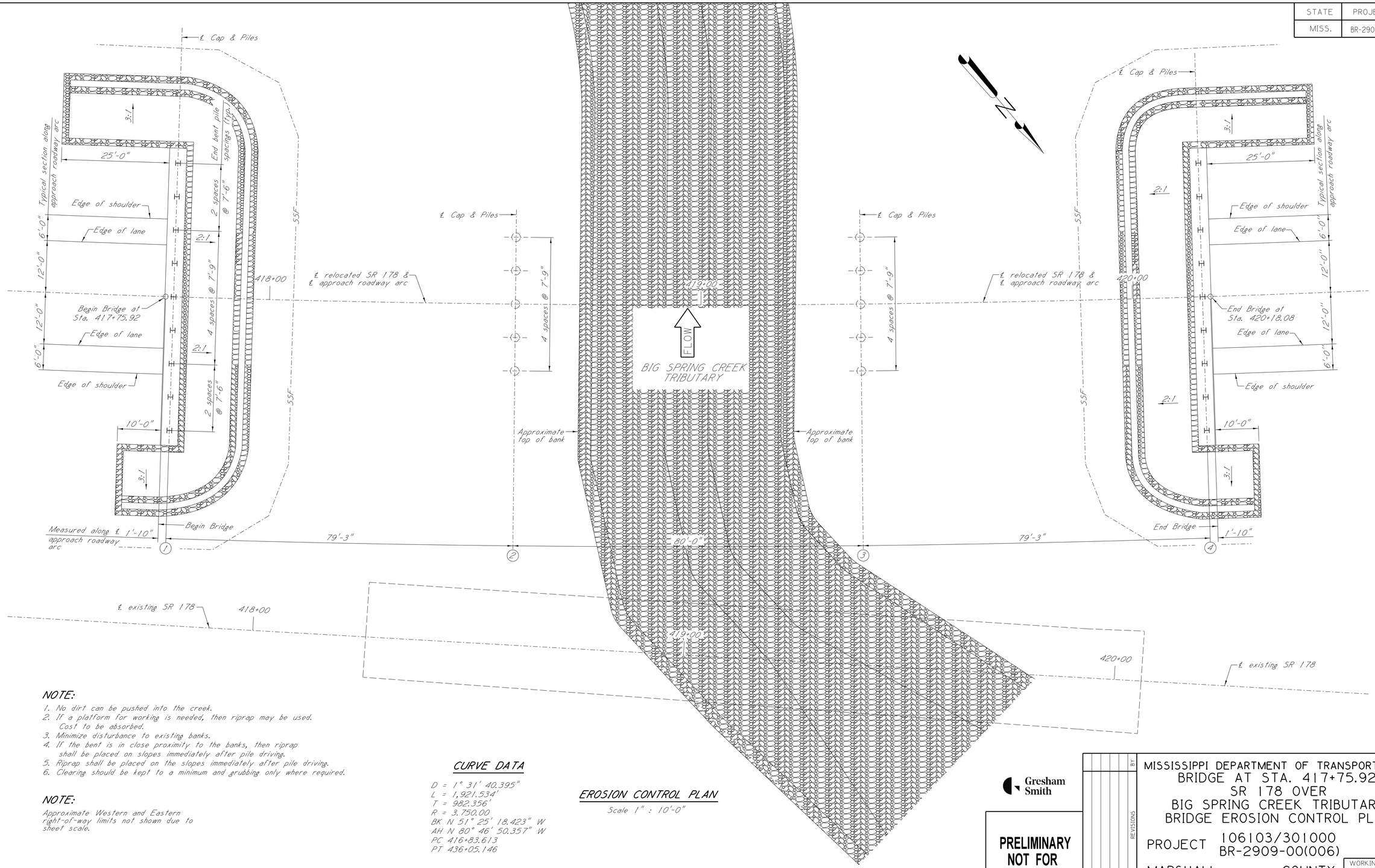
WORKING NUMBER ECBR-1C

DESIGNER COURTNEY ROME | CHECKER EMERY SAYRE
DETAILER RUTH STEELE | ISSUE DATE 08/29/2022
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - MICAH DEW, P.E.

SHEET NUMBER 8085

OFFICE REVIEW

STATE	PROJECT NO.
MISS.	BR-2909-00(006)



NOTE:

1. No dirt can be pushed into the creek.
2. If a platform for working is needed, then riprap may be used. Cost to be absorbed.
3. Minimize disturbance to existing banks.
4. If the bent is in close proximity to the banks, then riprap shall be placed on slopes immediately after pile driving.
5. Riprap shall be placed on the slopes immediately after pile driving.
6. Clearing should be kept to a minimum and grubbing only where required.

NOTE:

Approximate Western and Eastern right-of-way limits not shown due to sheet scale.

CURVE DATA

D = 1° 31' 40.395"
L = 1,921.534'
T = 982.356'
R = 3,750.00
BK N 51° 25' 18.423" W
AH N 80° 46' 50.357" W
PC 416+83.613
PT 436+05.146

EROSION CONTROL PLAN

Scale 1" : 10'-0"

Gresham Smith

PRELIMINARY NOT FOR CONSTRUCTION

BY	REVISIONS	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 417+75.92
SR 178 OVER
BIG SPRING CREEK TRIBUTARY
BRIDGE EROSION CONTROL PLAN

PROJECT 106103/301000
BR-2909-00(006)

MARSHALL COUNTY

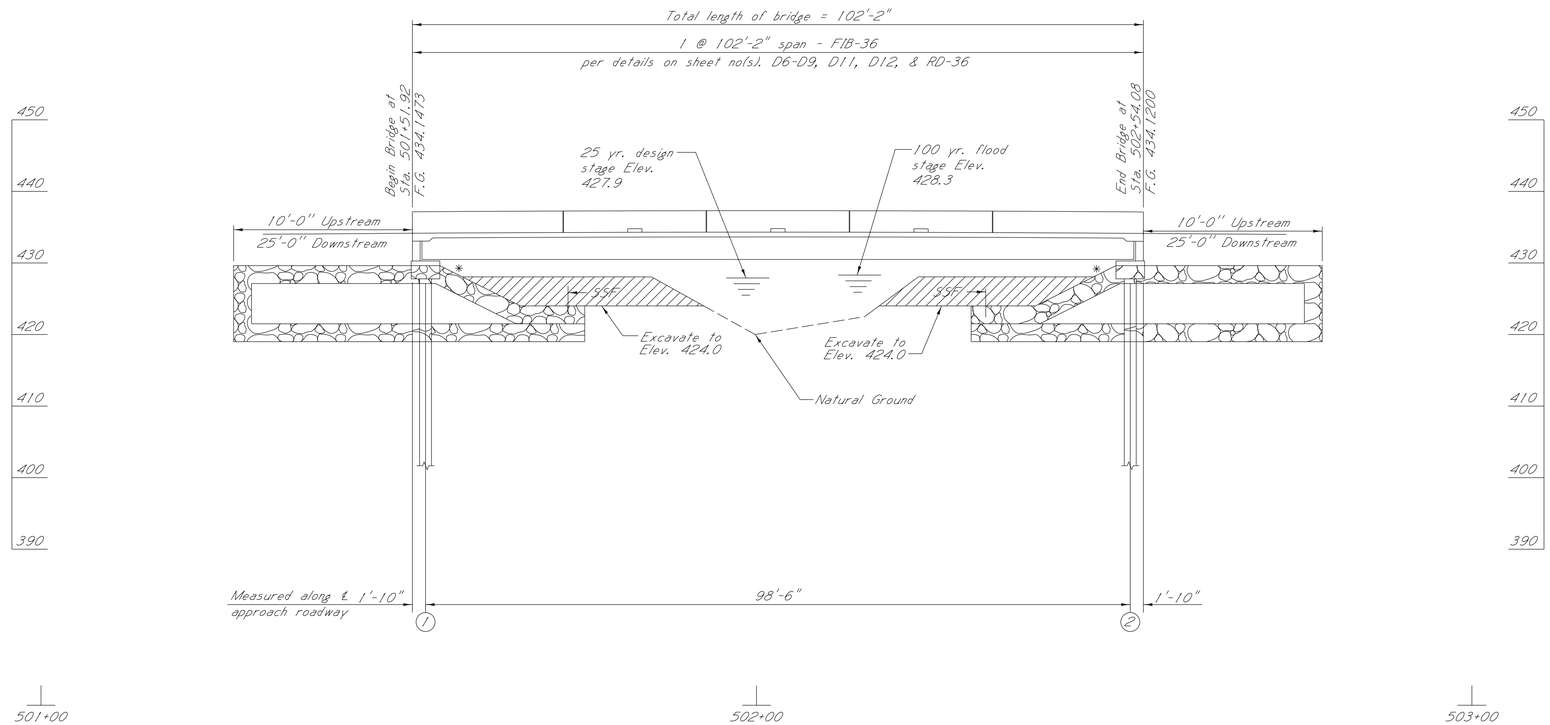
WORKING NUMBER ECBR-2C

DESIGNER COURTNEY ROME CHECKER EMERY SAYRE
DETAILER RUTH STEELE ISSUE DATE 08/29/2022
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - MICAH DEW, P.E.

SHEET NUMBER 8086

OFFICE REVIEW

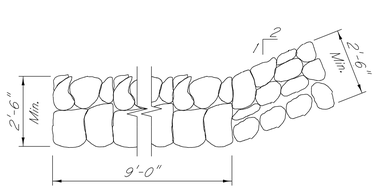
STATE	PROJECT NO.
MISS.	BR-2909-00(006)



EROSION CONTROL ELEVATION

Scale 1" : 10'-0"

500 Yr. Scour Evaluations	
Bent	Elevation
1	414.9
2	412.9



RIPRAP APRON DETAILS

NOTE:

Geotextile fabric is required under all riprap.

***NOTE:**

2:1 slope ⊥ end bent

NOTE:

1. No dirt can be pushed into the creek.
2. If a platform for working is needed, then riprap may be used. Cost to be absorbed.
3. Minimize disturbance to existing banks.
4. If the bent is in close proximity to the banks, then riprap shall be placed on slopes immediately after pile driving.
5. Riprap shall be placed on the slopes immediately after pile driving.
6. Clearing should be kept to a minimum and grubbing only where required.

Gresham Smith

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS | BY | DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 501+51.92
SR 178 OVER
SPRING CREEK
BRIDGE EROSION CONTROL ELEVATION

PROJECT 106103/301000
BR-2909-00(006)

MARSHALL COUNTY

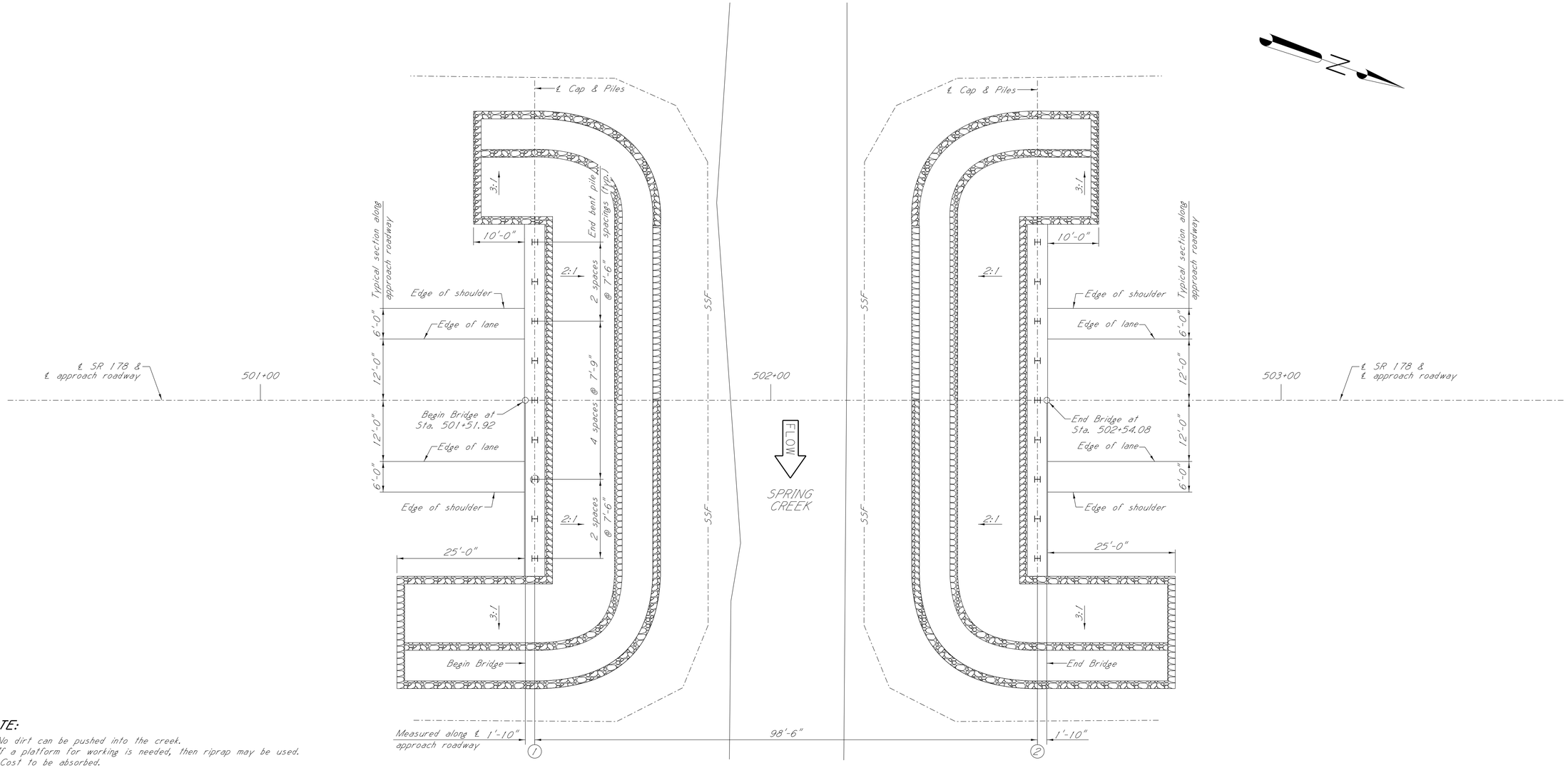
WORKING NUMBER ECBR-1D

DESIGNER COURTNEY ROME CHECKER EMERY SAYRE
DETAILER RUTH STEELE ISSUE DATE 08/29/2022
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - MICAH DEW, P.E.

SHEET NUMBER 8087

OFFICE REVIEW

STATE	PROJECT NO.
MISS.	BR-2909-00(006)



EROSION CONTROL PLAN

Scale 1" : 10'-0"

NOTE:

1. No dirt can be pushed into the creek.
2. If a platform for working is needed, then riprap may be used. Cost to be absorbed.
3. Minimize disturbance to existing banks.
4. If the bent is in close proximity to the banks, then riprap shall be placed on slopes immediately after pile driving.
5. Riprap shall be placed on the slopes immediately after pile driving.
6. Clearing should be kept to a minimum and grubbing only where required.

NOTE:

Approximate Western and Eastern right-of-way limits not shown due to sheet scale.

Gresham Smith

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS | BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 501+51.92
SR 178 OVER
SPRING CREEK
BRIDGE EROSION CONTROL PLAN

PROJECT 106103/301000
BR-2909-00(006)

MARSHALL COUNTY

WORKING NUMBER ECBR-2D

DATE | DESIGNER COURTNEY ROME | CHECKER EMERY SAYRE
DETAILER RUTH STEELE | ISSUE DATE 08/29/2022

DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - MICAH DEW, P.E.

SHEET NUMBER 8088

OFFICE REVIEW