

FED. ROAD REG. NO.	STATE	PROJECT NO.	SHEET NO.
4	MISS.	BR-1924-00(001)	1

STATE OF MISSISSIPPI

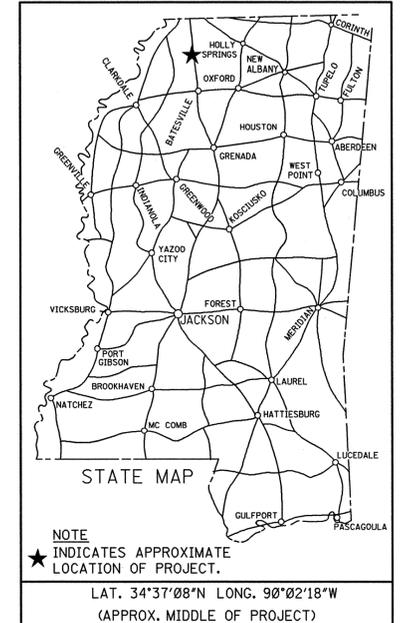
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY FEDERAL AID PROJECT NO. BR-1924-00(001)

SR 4 AT ARKABUTLA CREEK AND RELIEF
BR. NO. 35.1 AND 35.7
TATE COUNTY

FMS 103361 / 301000

SCALES
 PLAN 1 IN. = 100 FT.
 PROFILE { HOR. 1 IN. = 100 FT.
 VERT. 1 IN. = 10 FT.
 LAYOUT 1 IN. = 2000 FT.



BR. NO. 35.1 & 35.7

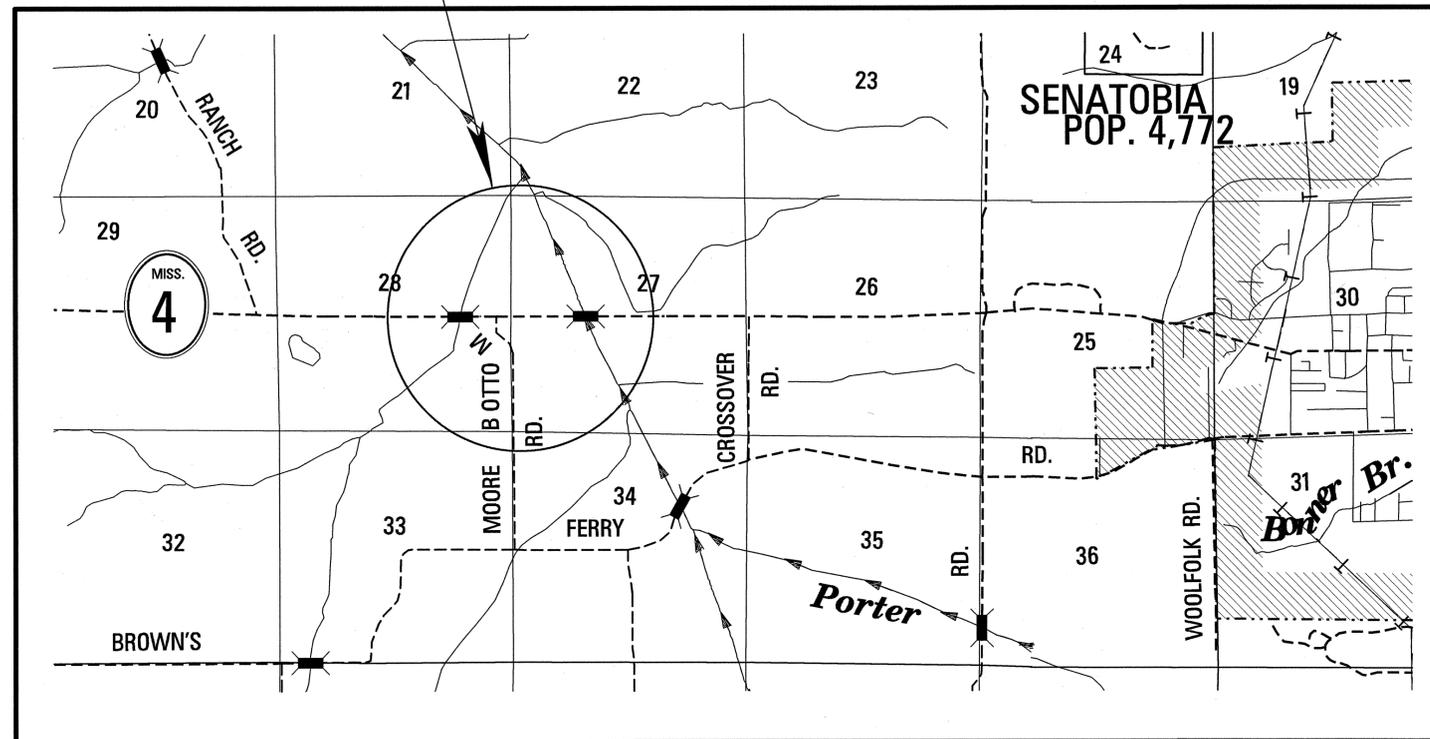
BRIDGE STRUCTURES REQ'D.

BR. # 35.1
 STA. 508 + 61.21 TO STA. 510 + 42.79
 180 FT. (1@40', 1@100', 1@40' SPANS)
 SKEWED 15° LEFT FORWARD

BR. # 35.7
 STA. 536 + 66.83 TO STA. 539 + 69.17
 300 FT. (3@100' SPANS)
 SKEWED 15° RIGHT FORWARD

BOX BRIDGES REQ'D.

NONE



DESIGN CONTROL

60 MPH = V (SPEED DESIGN)

ADT (2010) = 5000 ; ADT (2030) = 6100

DHV = 730 ; D = 50 % T = 10 %

PERMITS ACQUIRED BY MDOT

WETLANDS AND WATERS PERMITS (NECESSARY FOR ULTIMATE IMPROVEMENTS ONLY):

	WATERS	WETLANDS
NATIONWIDE #14	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
NATIONWIDE (OTHER)*	<input type="checkbox"/> N	<input type="checkbox"/> N
GENERAL*	<input type="checkbox"/> N	<input type="checkbox"/> N
INDIVIDUAL (404)*	<input type="checkbox"/> N	<input type="checkbox"/> N

* ACQUISITION OF PERMITS FOR TEMPORARY IMPACTS DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR

STORMWATER PERMIT Y

Y REQUIRED, CNOI SUBMITTED BY MDOT (DISTRIBUTED AREA = 5 ACRES + INTB 586)

S REQUIRED, SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES/INTB 14)

N NO STORMWATER PERMIT REQUIRED (<1 ACRE)

APPROVED BY: JCT DATE: 5-10-2011

CONVENTIONAL SYMBOLS

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

EQUATIONS

LENGTH DATA

LENGTH OF ROADWAY	4670 FT.	0.884 MI.
LENGTH OF BRIDGES	480 FT.	0.091 MI.
LENGTH OF PROJECT (NET)		0.975 MI.
LENGTH OF EXCEPTIONS	FT.	0.000 MI.
LENGTH OF PROJECT (GROSS)		0.975 MI.

EXCEPTIONS

APPROVED: *Wade McArthur* 5/10/11
 CHIEF ENGINEER DATE

INTERIM EXECUTIVE DIRECTOR *Wade McArthur* 5/10/11
 EXECUTIVE DIRECTOR DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

APPROVED: _____ DATE _____
 DIVISION ADMINISTRATOR

FEDERAL HIGHWAY ADMINISTRATION
 DEPARTMENT OF TRANSPORTATION

5/10/2011 11:24 AM I:\FILE.DGN MISSISSIPPI DEPARTMENT OF TRANSPORTATION TITLE ROADWAY DESIGN DIVISION

REVISION
DATE

WKG.
NO.

SH.
NO.

DESCRIPTION OF SHEET

DESCRIPTION OF SHEET

TITLE SHEET (1)

1

SPECIAL DESIGN SHEETS (CONTINUED)

DETAILED INDEX & GENERAL NOTES (5)

DETAILED INDEX
DETAILED INDEX
DETAILED INDEX - BRIDGE
GENERAL NOTES
GENERAL NOTES

DI-1 2
DI-2 3
DI-BR 4
GN-1 5
GN-2 6

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES,
SILT FENCE AND HAY BALE DITCH CHECKS

ECD-5 37

DETAILS OF EROSION CONTROL WATTLE DITCH CHECK

ECD-6 38

DETAILS OF EROSION CONTROL SILT DIKE DITCH CHECK
ROCK DITCH CHECK

ECD-7 39
ECD-8 40

ROCK DITCH CHECK WITH SUMP EXCAVATION
INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS
INLET PROTECTION DETAILS FOR COARSE AGGREGATE ON GRADES & SAGS
INLET PROTECTION DETAILS OF WATTLES
INLET PROTECTION DETAILS OF MANUFACTURED INLET PROTECTION DEVICE
INLET PROTECTION DETAILS OF SAND BAG

ECD-9 41
ECD-10 42
ECD-11 43
ECD-12 44
ECD-13 45
ECD-14 46

STABILIZED CONSTRUCTION ENTRANCE
TEMPORARY CULVERT STREAM CROSSING
TEMPORARY STREAM DIVERSION
TEMPORARY STREAM DIVERSION (BOX EXTENSIONS)

ECD-15 47
ECD-16 48
ECD-17 49
ECD-18 50

FLOATING TURBIDITY CURTAIN
DETAILS OF EROSION CONTROL SANDBAG DITCH CHECK

ECD-19 51
ECD-20 52

PRELIMINARY EROSION CONTROL PLANS - STA. 498+50 TO STA. 520+00
PRELIMINARY EROSION CONTROL PLANS - STA. 520+00 TO STA. 547+00
EROSION CONTROL PLAN: BRIDGE AT STA. 508+61.2083 SR 4 OVER SMITH DITCH
EROSION CONTROL PLAN: BRIDGE AT STA. 536+66.8333+61.2083 SR 4 OVER
ARKABUTLA CREEK

ECP3 53
ECP4 54
ECP-BR1 54.1
ECP-BR2 54.2

MISCELLANEOUS TYPICAL SECTION DETAILS
DETAILS OF TYPICAL DITCH TREATMENT
SUPER SILT FENCE

MTSD-1 55
DT-1 56
SSF-1 57

DETAILS OF INTERSECTION & STRIPING MOORE RD. @ STA. 517+73.22 MAINLINE PHASE
DETAILS OF INTERSECTION & STRIPING MOORE RD. @ STA. 517+73.22 DET. PHASE
TYPICAL TEMPORARY EROSION CONTROL MEASURES (SLOPE DRAIN AND
TYPE A SILT BASIN)

DOI-1 58
DOI-2 59
TEC-2 60

TYPICAL TEMPORARY EROSION CONTROL MEASURES (TYPE "D" SILT BASIN)
R16-3 LOCATION SHEET
DRUM PLACEMENT AND SHOULDER CLOSURE

TEC-D 61
R16-3 62
TCP-SC 63

VEGETATION SCHEDULE

VS-1 64

GUARD RAIL : BRIDGE END SECTION - TYPE "I" (STEEL POST)
GUARD RAIL : BRIDGE END SECTION - TYPE "I" (WOOD POST)
GUARD RAIL : RUB RAIL HARDWARE SHEET
GUARDRAIL (TEMPORARY): TYPICAL INSTALLATION AT DETOUR BRIDGE ENDS
RIGHT-OF-WAY MARKER
RIGHT-OF-WAY MARKERS
BRIDGE END PAVEMENT WITH RAIL
33.5" BRIDGE END PAVEMENT RAIL
FLEXIBLE PIPE STANDARD
SPECIAL DESIGN: RUBBLE STRIPES (GROUND-IN) 2 LANE

GR-2F 65
GR-2G 66
GR-RR 67
TGR-1 68
RW-1 69
RW-2 70
BE-1C 71
BE-PR-1B 72
HDPE-1 73
RS-2L 74

TYPICAL SECTION SHEETS (3)

TYPICAL SECTION - NEW CONSTRUCTION
TYPICAL SECTION - WIDENING & OVERLAY
TYPICAL SECTION - CONSTRUCTION AND REMOVAL OF DETOUR ROAD

TS-1 7
TS-2 8
TS-3 9

QUANTITY SHEETS (13)

SUMMARY OF QUANTITIES
SUMMARY OF QUANTITIES
SUMMARY OF QUANTITIES
SUMMARY OF QUANTITIES - BRIDGE

SQ-1 10
SQ-2 11
SQ-3 12
SQ-BR 13

ESTIMATED QUANTITIES FOR EARTHWORK
ESTIMATED QUANTITIES FOR REMOVAL ITEMS
ESTIMATED QUANTITIES FOR EROSION CONTROL ITEMS
ESTIMATED QUANTITIES FOR DRIVES AND SIDE DRAINS
ESTIMATED QUANTITIES FOR GUARDRAIL
ESTIMATED QUANTITIES FOR TRAFFIC CONTROL ITEMS
ESTIMATED QUANTITIES FOR PAVEMENT MARKINGS AND DRAINAGE STRUCTURES
ESTIMATED QUANTITIES FOR TRAFFIC CONTROL SIGNS
ESTIMATED QUANTITIES - BRIDGE

EQ-1 14
EQ-2 15
EQ-3 16
EQ-4 17
EQ-5 18
EQ-6 19
EQ-7 20
EQ-8 21
EQ-BR 22

PLAN & PROFILE SHEETS (6)

MAINLINE STA. 498+50 TO STA. 520+00
DETOUR ROAD STA. 20+00 TO STA. 50+00

MOORE ROAD STA. 11+13.88 TO STA. 15+00
MOORE ROAD (DETOUR PHASE) STA. 11+13.88 TO STA. 15+00

MAINLINE STA. 520+00.00 TO STA. 550+00
DETOUR ROAD STA 50+00 TO STA.68+69.193

3 23
3A 24

3B 25
3C 26

4 27
4A 28

SPECIAL DESIGN SHEETS (48)

CONSTRUCTION SIGNING

CS-1 29

TRAFFIC CONTROL PLAN PHASE ONE
TRAFFIC CONTROL PLAN PHASE TWO
TRAFFIC CONTROL PLAN PHASE THREE

TC-1 30
TC-2 31
TC-3 32

TYPICAL TEMPORARY EROSION SEDIMENT CONTROL APPLICATIONS
DETAILS OF SEDIMENT BARRIER APPLICATIONS
DETAILS OF SILT FENCE INSTALLATION
DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS

ECD-1 33
ECD-2 34
ECD-3 35
ECD-4 36

C C LEWIS

PS & E PLANS-DATE 5-13-11		
FMS CON. # 103361/301000		
REVISIONS		
DATE	SHEET NO.	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
DETAILED INDEX	
PROJECT NO. BR-1924-00(001)	
COUNTY : TATE	
FILENAME: di-1.dgn	WORKING NUMBER DI-1
DESIGN TEAM C.C. LEWIS CHECKED DATE	SHEET NUMBER 2

5/13/2011 10:42 AM DI.DGN ROADWAY DESIGN DIVISION MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESCRIPTION OF SHEET	REVISION DATE	WKG. NO.	SH. NO.
<u>STANDARD DRAWINGS - ROADWAY SHEETS (26)</u>			
PAVEMENT MARKING DETAILS FOR 2 & 4-LANE DIVIDED ROADWAYS EROSION CONTROL	12-01-99	PM-1 EC-1	120 140
TYPICAL TEMPORARY EROSION CONTROL MEASURES (SLOPE DRAIN AND TYPE A SILT BASINS)		TEC-2	143
GUARD RAIL : "W" BEAM (WOOD POSTS)	3-01-02	GR-1	180
GUARD RAIL : THRIE BEAM (WOOD POSTS)	3-01-02	GR-1A	181
GUARD RAIL : "W" BEAM (STEEL POSTS)	3-01-02	GR-1B	182
GUARD RAIL : MODIFIED THRIE BEAM (STEEL POSTS)	3-01-02	GR-1C	183
GUARD RAIL : TYPICAL INSTALLATION AT BRIDGE APPROACHES FOR 2-LANE, 2-WAY HIGHWAY	12-01-99	GR-4A	195
GUARD RAIL : MISCELLANEOUS HARDWARE	3-01-02	GR-HW	202
TYPICAL GUARD RAIL DELINEATION	3-01-02	SN-8C	236
TRAFFIC CONTROL PLAN WITH FLAGGER (ONE-LANE CLOSURE OF TWO-WAY TRAFFIC)		TCP-1	250
SHORT DURATION CLOSING OF TWO-LANE TWO-WAY HIGHWAYS		TCP-8	257
HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS		TCP-10	259
TRAFFIC CONTROL PLAN MOBILE OPERATIONS MULTILANE ROADS AND TWO-LANE ROADS	12-01-99	TCP-11	260
TRAFFIC CONTROL PLAN : UNEVEN PAVEMENT DETAILS		TCP-14	263
TEMPORARY STRIPING FOR TRAFFIC CONTROL 2-LANE AND 4-LANE DIVIDED HIGHWAYS	12-01-99	TCP-15	264
RURAL DRIVEWAYS		RD-1	271
TYPICAL GRADING TRANSITION BETWEEN CUTS & FILLS		GT-1	272
SUPERELEVATION TRANSITION - CASE I (2.0% NORMAL SUBGRADE)	3-01-02	SE-2A	276
MISCELLANEOUS DETAIL SHEET 1. STACKED PIPE JOINT		MDS-1	290
2. EXCAVATION AT GRADE POINTS		PF-1	291
DETAILS OF PAVED FLUMES		PI-1	300
PIPE CULVERT INSTALLATION		JB-1	302
JUNCTION BOX FOR PIPE CULVERTS		SAG-1	327
SMALL ANIMAL GUARD AND UNDERDRAIN MARKER		FE-1	328
FLARED END SECTION FOR CONCRETE PIPE		UD-1	331
DETAILS OF NORMAL UNDERDRAIN AND STORM DRAIN USED AS UNDERDRAIN			466-501
BRIDGE DETAIL SHEETS (36)			
<u>CROSS SECTION SHEETS (13)</u>			
MAINLINE & DETOUR ROAD			901-912
MOORE ROAD			913
TOTAL SHEETS			149

MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
DETAILED INDEX			
PROJECT NO. BR-1924-00(001)			WORKING NUMBER
COUNTY : TATE			DI-2
DATE	FILENAME:	di-1.dgn	SHEET NUMBER
	DESIGN TEAM	C.C. LEWIS CHECKED	3

PLAN DIVISION
ROADWAY DESIGN
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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DESCRIPTION OF SHEET

BRIDGE AT STA. 508+61.2083
SR 4 OVER SMITH DITCH (BRIDGE "A")

GENERAL NOTES & ESTIMATED QUANTITIES	A1	466
PLAN & PROFILE	A2	467
GENERALIZED SOIL PROFILE	A3	468
END BENTS 1 & 4	A4	469
END BENT DETAILS	A5	470
INTERMEDIATE BENT 2	A6	471
INTERMEDIATE BENT 3	A7	472
INTERMEDIATE BENT DETAILS	A8	473
TYPICAL SPAN DETAILS - TYPE I+2 BEAMS	A9	474
TYPICAL SPAN DETAILS - TYPE IV BEAMS	A10	475
PLAN OF SPAN 1	A11	476
PLAN OF SPAN 2	A12	477
MISCELLANEOUS SPAN DETAILS	A13	478
32" RAILING DETAILS	A14	479
40 FT. END BEAM DETAILS - AASHTO TYPE I+2	A15	480
100 FT. INT. BEAM DETAILS - AASHTO TYPE IV	A16	481
SEISMIC SQUARE PRESTRESSED CONCRETE PILES	A17	482

WKG. SH. NO. NO.

DESCRIPTION OF SHEET

BRIDGE AT STA. 536+66.8333
SR 4 OVER ARKABUTLA CREEK (BRIDGE "B")

GENERAL NOTES & ESTIMATED QUANTITIES	B1	484
PLAN & PROFILE	B2	485
GENERALIZED SOIL PROFILE	B3	486
END BENTS 1 & 4	B4	487
END BENT DETAILS	B5	488
INTERMEDIATE BENTS 2 & 3	B6	489
INTERMEDIATE BENT DETAILS	B7	490
TYPICAL SPAN DETAILS	B8	491
PLAN OF SPANS 1 & 2	B9	492
PLAN OF SPANS 2 & 3	B10	493
MISCELLANEOUS SPAN DETAILS	B11	494
32" RAILING DETAILS	B12	495
BEAM 100-1 THRU 100-5 DETAILS - TYPE IV	B13	496
BEAM 100-6 THRU 100-10 DETAILS - TYPE IV	B14	497
BEAM 100-11 THRU 100-15 DETAILS - TYPE IV	B15	498
SEISMIC SQUARE PRESTRESSED CONCRETE PILES	B16	499
TEST SHAFT LOAD CELL DETAILS	B17	500

WKG. SH. NO. NO.

DESCRIPTION OF SHEET

BRIDGE AT STA. 28+87
SR 4 DETOUR BRIDGE OVER SMITH DITCH
DETOUR BRIDGE AT STA. 28+87 OVER SMITH DITCH

WKG. SH. NO. NO.

DBA1 483

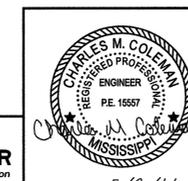
DESCRIPTION OF SHEET

BRIDGE AT STA. 57+14
SR 4 DETOUR BRIDGE OVER ARKABUTLA CREEK
DETOUR BRIDGE AT STA. 57+14 OVER ARKABUTLA CREEK

WKG. SH. NO. NO.

DBB1 501

TOTAL BRIDGE SHEETS 36



REVISION		BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION BRIDGE AT STA. 508+61.2083 BRIDGE AT STA. 536+66.8333 DETAILED INDEX (BRIDGE)	
DATE		PROJECT		BR-1924-00(001) 103361/101000	
DATE		COUNTY		TATE COUNTY	
DESIGNED		CADD		WORKING NUMBER	
CMC		RJB		DI-BR	
DATE		ISSUED		SHEET NUMBER	
05/2011		DATE		4	

