FED. ROAD REG. NO.	STATE	PROJECT NO.	SHEET NO.
4	MISS.	NH–BR–0002–04(036)	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
☒	BRIDGE STANDARD DWGS	7001
☒	BRIDGE	8001
☒	CROSS SECTIONS	9001

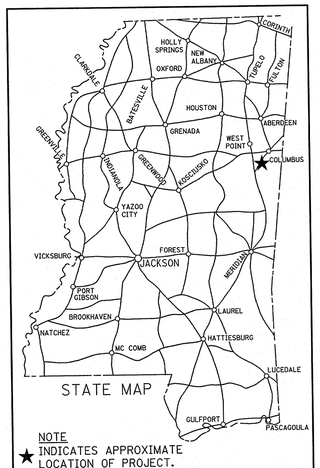
STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY FEDERAL AID PROJECT NO. NH–BR–0002–04(036)

U.S. 45 FROM CARSON ROAD
TO 4 MILES SOUTH OF U.S. 82
LOWNDES COUNTY

FMS CON: 102090/302000



NOTE
★ INDICATES APPROXIMATE LOCATION OF PROJECT.

LAT. 33°23'N LONG. 88°31'W
(APPROX. MIDDLE OF PROJECT)

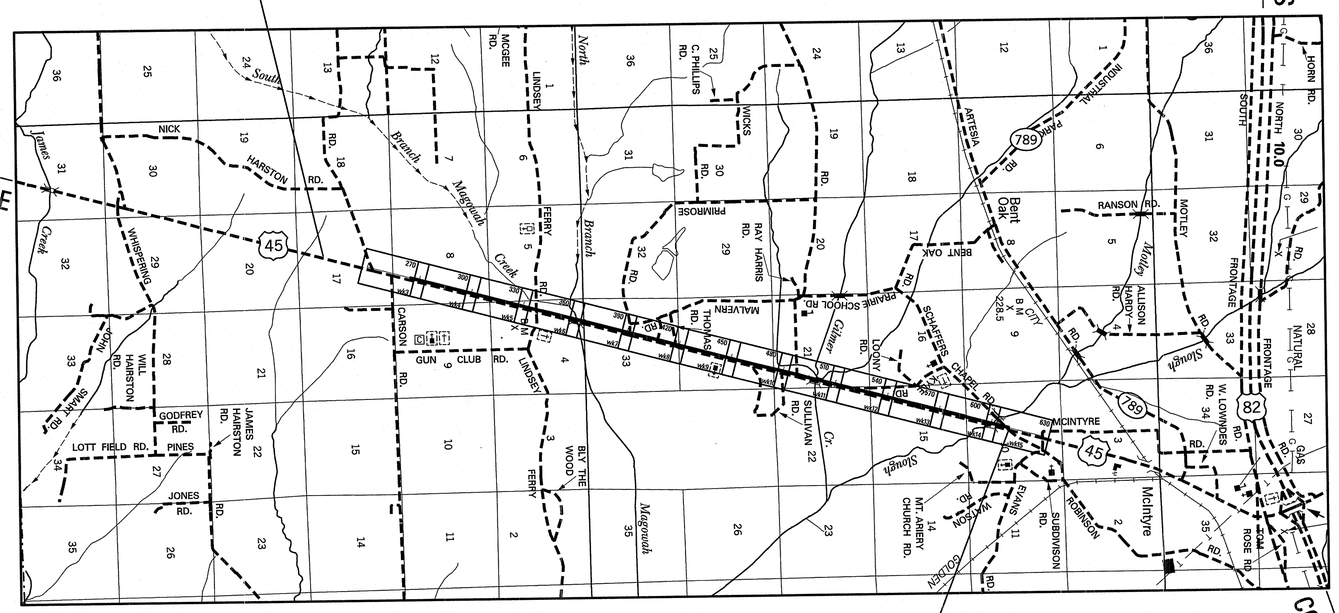
ALL LEFT LANE BRIDGES IN PLACE

BEGINNING OF PROJECT
⚠ STA. 215+77

SCALES

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

TO STARKVILLE



TO COLUMBUS

END OF PROJECT
STA. 610+00

BRIDGE STRUCTURES REQ'D.

BRIDGE NO. 151.1
STA. 359+59.18 – STA. 362+60.82 RT.
SPANS: 3@40' – 1@100' – 2@40' RT.
LENGTH: 301.64' RT.
SKEW: 15° RIGHT–FORWARD RT.

BRIDGE NO. 153.7
STA. 497+59.21 – STA. 499+60.79 RT.
SPANS: 2@40' – 1@80' – 1@40' RT.
LENGTH: 201.58' RT.
NO SKEW

BRIDGE NO. 155.6
STA. 598+53.88 – STA. 601+56.12 RT.
SPANS: 3@40' – 1@100' – 2@40' RT.
LENGTH: 302.24' RT.
SKEW: 45° LEFT–FORWARD RT.

BOX BRIDGES REQ'D.

STA. 414+60
100' – DOUBLE 10' X 4' RCB REQ'D.

DESIGN CONTROL

70 MPH = V (SPEED DESIGN)

ADT (2004) = 7600 : ADT (2024) = 13,800
DHV = 1400 : D = 50 % T = 20 %

PERMITS ACQUIRED BY MDOT

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

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

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

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: [illegible] DATE: 11/6/12

CONVENTIONAL SYMBOLS

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

EQUATIONS
NONE

EXCEPTIONS
NONE

LENGTH DATA

LENGTH OF ROADWAY	38595.79 FT. ⚠	7.310 MI. ⚠
LENGTH OF BRIDGES	827.210 FT.	0.157 MI.
LENGTH OF PROJECT (NET)		7.467 MI. ⚠
LENGTH OF EXCEPTIONS	FT.	MI.
LENGTH OF PROJECT (GROSS)		7.467 MI. ⚠

DATE	REVISIONS	BY
11/27/12	ADDED GENERAL INDEX, REVISED BOP STA.	TAD

APPROVED:
CHIEF ENGINEER — DATE 11/6/12
EXECUTIVE DIRECTOR — DATE 11/6/12
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

APPROVED:
DIVISION ADMINISTRATOR — DATE
FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

TITLE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
11/30/2012 11:55AM TITLE.DGN

ADDENDUM

STATE	PROJECT NO.
MISS.	NH-BR-0002-04(036)

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
TITLE SHEET (1)		1
DETAILED INDEX & GENERAL NOTES (4)		
DETAILED INDEX	DI-1	2
DETAILED INDEX	DI-2	3
DETAILED INDEX	DI-3	4
GENERAL NOTES	GN-1	5
TYPICAL SECTION SHEETS (7)		
TYPICAL SECTION - HWY. 45 - NEW CONSTRUCTION, WIDENING & OVERLAY	TS-1	6
TYPICAL SECTION - HWY. 45 - NEW CONSTRUCTION, WIDENING & OVERLAY	TS-2	7
TYPICAL SECTION - LOCAL ROADS	TS-3	8
TYPICAL SECTION - LOCAL ROADS	TS-4	9
TYPICAL SECTION - CONSTRUCTION & REMOVAL OF TEMPORARY CONNECTION	TS-5	10
TYPICAL SECTION - CROSS-OVER	TS-6	11
TYPICAL SECTION - CHANNELIZED INTERSECTION @ 337+04.72	TS-7	12
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SUMMARY OF QUANTITIES	SQ-2	14
SUMMARY OF QUANTITIES	SQ-3	15
SUMMARY OF QUANTITIES	SQ-4	16
SUMMARY OF QUANTITIES	SQ-5	17
ESTIMATED QUANTITIES (8)		
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ESTIMATED QUANTITIES	EQ-2	19
ESTIMATED QUANTITIES	EQ-3	20
ESTIMATED QUANTITIES	EQ-4	21
ESTIMATED QUANTITIES	EQ-5	22
ESTIMATED QUANTITIES	EQ-6	23
ESTIMATED QUANTITIES	EQ-7	24
ESTIMATED QUANTITIES	EQ-8	25
PLAN & PROFILE SHEETS (37)		
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MAINLINE - BOP - STA. 270+00	WK-3R	27
TEMPORARY CONNECTION AT BOP	WK-3A	28
MAIN FACILITY - STA. 270+00 TO STA. 300+00	WK-4L	29
MAIN FACILITY - STA. 270+00 TO STA. 300+00	WK-4R	30
MAIN FACILITY - STA. 300+00 TO STA. 330+00	WK-5L	31
MAIN FACILITY - STA. 300+00 TO STA. 330+00	WK-5R	32
MAIN FACILITY - STA. 330+00 TO STA. 360+00	WK-6L	33
MAIN FACILITY - STA. 330+00 TO STA. 360+00	WK-6R	34
LOCAL ROAD -LINDSEY FERRY RD. LT STA. 337+04.72	WK-6A	35
MAIN FACILITY - STA. 360+00 TO STA. 390+00	WK-7L	36
MAIN FACILITY - STA. 360+00 TO STA. 390+00	WK-7R	37
MAIN FACILITY - STA. 390+00 TO STA. 420+00	WK-8L	38
MAIN FACILITY - STA. 390+00 TO STA. 420+00	WK-8R	39
LOCAL ROAD - PRIMROSE RD. LT. STA. 391+25.42	WK-8A	40
LOCAL ROAD - THOMAS RD. LT. STA. 417+97.70	WK-8B	41
MAIN FACILITY - STA. 420+00 TO STA. 450+00	WK-9L	42
MAIN FACILITY - STA. 420+00 TO STA. 450+00	WK-9R	43
MAIN FACILITY - STA. 450+00 TO STA. 480+00	WK-10L	44
MAIN FACILITY - STA. 450+00 TO STA. 480+00	WK-10R	45
LOCAL ROAD - SULLIVAN ROAD RT. STA. 462+70	WK-10A	46
LOCAL ROAD - SULLIVAN ROAD RT. STA. 479+42	WK-10B	47
MAIN FACILITY - STA. 480+00 TO STA. 510+00	WK-11L	48
MAIN FACILITY - STA. 480+00 TO STA. 510+00	WK-11R	49
LOCAL ROAD LT. STA. 487+76.614	WK-11A	50
MAIN FACILITY - STA. 510+00 TO STA. 540+00	WK-12L	51
MAIN FACILITY - STA. 510+00 TO STA. 540+00	WK-12R	52
LOCAL ROAD LT. STA. 529+20.17	WK-12A	53

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MAIN FACILITY - STA. 570+00 TO STA. 600+00		WK-14L	56
MAIN FACILITY - STA. 570+00 TO STA. 600+00		WK-14R	57
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MAIN FACILITY - STA. 600+00 TO STA. EOP		WK-15L	59
MAIN FACILITY - STA. 600+00 TO STA. EOP		WK-15R	60
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TYP. TEMPORARY EROSION CONTROL MEASURES (SLOPE DRAIN AND TYPE A SILT BASIN)		TEC-2	72
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2-WAY RAISED PAVEMENT MARKERS AT LOCAL ROADS (4-LANE)		CRPMSR-4	81
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SUPERELEVATION CASE I ROTATION ABOUT CENTERLINE (2% NORMAL SUBGRADE)		SDSE-2A	86
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RUMBLE STRIPE 4-LANE HIGHWAY NEW CONSTRUCTION		RS-4L	88
1 BRIDGE END PAVEMENT WITH RAIL AND OVERLAY		BE-1C	89
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DOVER

PS & E PLANS-DATE 11-7-12		
FMS CON. # 102090/302000		
REVISIONS		
DATE	SHEET NO.	BY
11/27/12	1,2,3,4,5,6,7,9,10,13,14,15,	
	16,20,23,26,27,29,30,31,	
	32,34,37,38,39,42,43,54,	
	55,56,62,64,65,71,82,84,	
	85,86,89,124,133,134,154,	
	160,161,162,164,165,166,	
	167,168,169,170,171,	
	172 & 173	TAD
12/12/12	2,3,4,6,7,8,11,13,14,16,21,	
	26,27,30,32,36,37,48,49,	
	56,57,69,91 & 6251	TAD
1/17/13	2,13,19,77,78,79,80,1001,	
	1002,1003,1004,1005,	
	1006,1007,1008,1009,	
	1010 & 1011	TAD

DATE	REVISION	BY
11/27/12	INSERTED CORRECT SH. & REV. WKG. NO.	TAD 1

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. NH-BR-0002-04(036)
COUNTY : LOWNDES

FILENAME: DI.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER DI-1

SHEET NUMBER 2

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1/17/2013 9:58 AM DI.DGN

1st O.REV.

STATE	PROJECT NO.
MISS.	NH-BR-0002-04(036)

DESCRIPTION OF SHEET		WKG. NO.	SH. NO.
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TRAFFIC CONTROL PLANS - PHASE 2		TCP-2C	103
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TRAFFIC CONTROL PLANS - PHASE 2		TCP-2G	107
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PERMANENT PAV'T. MARKINGS STA. 383+00 TO 395+00		PPM-2	121
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INTERSECTION DETAIL		ID-5	132
INTERSECTION DETAIL		ID-6	133
INTERSECTION DETAIL		ID-7	134
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PRELIMINARY EROSION CONTROL PLAN - STA. 300+00 TO STA. 330+00		ECP5	162
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PRELIMINARY EROSION CONTROL PLAN - STA. 450+00 TO STA. 480+00		ECP10	167
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PERMANENT SIGNING PLAN		PSP-3	1005
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PAVEMENT MARKING DETAILS FOR 2 & 4-LANE DIVIDED ROADWAYS	12-01-99	PM-1	6120
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PAVEMENT MARKING LEGEND DETAILS		PM-6	6125
TYPICAL PLACEMENT OF WARNING SIGNS AND PAVEMENT MARKERS			
EROSION CONTROL		EC-1	6140
TYPICAL TEMPORARY EROSION CONTROL MEASURES (TYPE D			
SILT BASIN)		TEC-3	6144

DATE	REVISION	BY
12/12/12	ADDED SHEET	TAD 2
11/27/12	ADDED SHEET	TAD 1

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. NH-BR-0002-04(036)
COUNTY : LOWNDES

WORKING NUMBER DI-2

FILENAME: DI.DGN

DESIGN TEAM ____ CHECKED ____ DATE ____

SHEET NUMBER 3

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

12/12/2012 2:14 PM DI.DGN

1st O.REV.

STATE	PROJECT NO.
MISS.	NH-BR-0002-04(036)

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
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GUARD RAIL : "W" BEAM (WOOD POSTS)	GR-1	6180
GUARD RAIL : THRIE BEAM (WOOD POSTS)	GR-1A	6181
GUARD RAIL : "W" BEAM (STEEL POSTS)	GR-1B	6182
GUARD RAIL : MODIFIED THRIE BEAM (STEEL POSTS)	GR-1C	6183
GUARD RAIL : TYPE 1 CABLE ANCHORAGE - (FOUNDATION TUBE	GR-3	6192
GUARD RAIL : TYPE 1 CABLE ANCHORAGE - (CONCRETE FOOTING)	GR-3A	6193
GUARD RAIL : TYPICAL INSTALLATION AT BRIDGE APPROACHES FOR DIVIDED HIGHWAYS	GR-4	6194
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DRIVEWAYS, CURB & GUTTER, & SIDEWALK	SD-1	6287
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DETAILS OF PAVED FLUMES	PF-1	6291
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BRANCH CONNECTIONS	BC-1	6305
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DETAILS OF GRATES FOR MEDIAN INLETS	IG-1	6314
PAVED INLET APRON AND MEDIAN DITCH PLUG	PA-1	6318
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FLARED END SECTION FOR CONCRETE ARCH PIPE	FE-1A	6329
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BOX CULVERT DRAWING- NORMAL AND SKEWED CULVERTS GROUP II DIAGRAMS	IBJL-1	7002
BOX CULVERT DRAWING- NORMAL AND SKEWED CULVERTS GROUP III DIAGRAMS	IBJL-1	7003
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	IBS-6-2W	7008
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	IBS-8-2W	7010
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6-12 FT. SPANS 6-24 FT.	IWS-3	7016
	IWS-3	7017
BOX CULVERT DRAWING - 15 DEG. SKEW DETAILS-WINGS	ISK-15-3W	7050
3:1 SLOPE - SINGLE & DOUBLE CELL CULVERTS	ISK-15-3W	7051
BOX CULVERT DRAWING - 45 DEG. SKEW DETAILS-WINGS	ISK-45-3W	7062
3:1 SLOPE - SINGLE & DOUBLE CELL CULVERTS	ISK-45-3W	7063

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
SPECIAL DESIGN SHEETS - BRIDGE (SEE BRIDGE DETAILED INDEX, SHEET 8001)(82)		
CROSS SECTIONS (104)		
MAIN FACILITY - B.O.P. TO E.O.P.		9001-9093
LOCAL ROAD - STA. 337+04		9094-9095
LOCAL ROAD - STA. 391+25		9096
LOCAL ROAD - STA. 417+97		9097
LOCAL ROAD - STA. 462+23		9098
LOCAL ROAD - STA. 479+12		9099
LOCAL ROAD - STA. 487+73		9100
LOCAL ROAD - STA. 529+20		9101
LOCAL ROAD - STA. 592+00		9102
LOCAL ROAD - STA. 615+00		9103-9104
TOTAL SHEETS (413) 1 2		

DATE	REVISION	BY
12/12/12	ADDED STANDARD	TAD 2
11/27/12	REVISED SHEET TOTAL	TAD 1

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. NH-BR-0002-04(036)
COUNTY : LOWNDES

FILENAME: DI.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER DI-3
SHEET NUMBER 4

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

12/12/2012 2:15 PM DI.DGN

1st O.REV.

STATE	PROJECT NO.
MISS.	NH-BR-0002-04(036)

GENERAL NOTES

1. LIST OF PUBLIC UTILITIES:
   A. AT&T TELEPHONE COMPANY
   B. FOUR COUNTY ELECTRIC POWER ASSOCIATION
   C. LOWNDES COUNTY WATER ASSOCIATION
   D. SOUTH LOWNDES WATER ASSOCIATION

2. THE LOCATION AND SPACING OF SIGNS, SHOWN ON THE TRAFFIC CONTROL PLANS, ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS.

3. A SOIL PROFILE HAS BEEN PREPARED FOR THIS PROJECT USING SAMPLES TAKEN FROM HOLES AT THE LOCATIONS INDICATED IN THE TEST REPORTS. THIS SOIL PROFILE IS ON FILE IN THE DISTRICT AND CENTRAL CONSTRUCTION OFFICES AND IS AVAILABLE FOR EXAMINATION. THE DEPARTMENT DOES NOT GUARANTEE THAT THE MATERIALS AS SHOWN IN THE REPORTS ARE NECESSARILY TO BE FOUND OUTSIDE THE TEST HOLES.

4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING STRUCTURES SUCH AS PIPES, INLETS, APRONS, BRIDGES, ETC. FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. EXTREME CARE SHOULD BE EXERCISED IN UNDERCUT AREAS AND THE UNDERCUT DEPTH MAY BE ADJUSTED AT CROSS DRAINS, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REPLACE OR REPAIR, AS DIRECTED BY THE ENGINEER, ANY STRUCTURES DAMAGED DURING THE LIFE OF THE CONTRACT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.

5. ALL EXISTING HEADWALLS, CULVERT PIPES, OR OTHER OBSTRUCTIONS NOT COVERED BY A SPECIFIC PAY ITEM, ITEM, WHICH CONFLICT WITH REQUIRED CONSTRUCTION SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE AS AN ABSORBED ITEM. EXISTING PIPES THAT ARE TO BE ABANDONED IN PLACE SHALL BE PLUGGED ON EACH END WITH CONCRETE. (ABSORBED ITEM)

6. VOIDS CREATED BY THE REMOVAL OF POSTS, CONCRETE ANCHORS, FOOTINGS, ETC. SHALL BE BACKFILLED AND TAMPED IN ACCORDANCE WITH SECTION 203 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

7. EXISTING UNDERGROUND UTILITY LINES ARE SHOWN ON THE DRAWINGS BASED UPON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. THE ENGINEER CAN NOT AND DOES NOT WARRANT THAT THIS INFORMATION IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE INVOLVED UTILITY OWNERS TO HAVE UNDERGROUND UTILITY LINES FIELD LOCATED IN ADVANCE OF CONSTRUCTION.

8. WORK ON STRUCTURES FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES. THEREFORE, THE RISK OF A FAILURE OCCURING DURING EXCAVATION REQUIRES THAT EXTREME CAUTION BE EXERCISED. IT SHALL BE THE CONTRACTOR'S RESPONSILBILITY TO PLACE WHAT BRACING, SHORING, OR GROUND SUPPORT SYSTEM THAT IS DEEMED NECESSARY TO PREVENT A FAILURE AND PROTECT THE PERSONS WORKING NEAR THE EXCAVATION, THE PUBLIC THAT MAY BE ABOVE THE EXCAVATION OR ANY STRUCTURES ADJACENT TO THE EXCAVATION. ALL COSTS FOR DESIGNING, DRAWING, AND CONSTRUCTING THE FACILITY, SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.

9. FLUORESCENT ORANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS EXCEPT FOR THOSE DESIGNATED ON THE PLANS TO BE BLACK LEGEND AND BORDER ON WHITE BACKGROUND.

10. 25% SHRINKAGE FACTOR USED IN THE EARTHWORK CALCULATIONS IS FOR DESIGN ESTIMATING PURPOSES ONLY.

11. EXISTING RIP RAP TO BE SHAPED AS DIRECTED BY THE ENGINEER. (COST ABSORBED)

12. FULL COLLARS ARE TO BE USED AT ALL BOX CULVERT EXTENSIONS AND AT ALL BOX CULVERTS CONSTRUCTION JOINTS. (SEE WK.NO. ICJ-1 FOR DETAILS)

13. THE CLEARING LIMITS ADJACENT TO THE STREAMS AT STATIONS 272+00, 293+50, 324+00, 361+00, 416+00, 498+00, AND 600+00 WILL BE LIMITED TO NO FURTHER THAN TEN (10) FEET OUTSIDE THE CONSTRUCTION LIMITS WHEN ANY CLOSER TO THE STREAM THAN FIFTY (50) FEET FROM THE TOP OF THE BANKS.

14. WORK MAY BE REQUIRED OUTSIDE OF PROJECT LIMITS.

15. IF COLORS ARE USED ON PLAN/PROFILE SHEETS, THEY ARE INTENDED TO VISUALLY EASE THE LOCATION OF ELEMENTS FOR USERS OF THESE DRAWINGS. ALTHOUGH THE INTENT IS TO CATEGORIZE EVERYTHING AS EITHER EXISTING OR PROPOSED, IT IS THE END USER'S RESPONSIBILITY TO ENSURE ALL ELEMENTS ARE INTERPRETED CORRECTLY REGARDLESS OF COLOR.

⚠1 16. SEE BRIDGE PLANS FOR DETAILED INDEX SHEET(S), ESTIMATED AND SUMMARY OF QUANTITY SHEETS, AND EROSION CONTROL SHEETS.

DATE	REVISION	BY
11/27/12	ADDED NOTE	TAD

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

PROJ.NO.:NH-BR-0002-04(036
COUNTY: LOWNDES
FILENAME: DI.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER GN-1
SHEET NUMBER 5

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

11/30/2012 2:52 PM DI.DGN