FED. ROAD REG. NO.	STATE	PROJECT NO.	SHEET NO.
4	MISS.	NH–0006–01(084)	1

STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED U.S. HIGHWAY FEDERAL AID PROJECT NO. NH–0006–01(084)

RECONSTRUCTION OF U.S. HWY 78 BETWEEN COLDWATER AND WEST HOLLY SPRINGS EXIT

FMS 105510/301000 & 302000

DESOTO & MARSHALL COUNTIES

B.O.P. STA. 158+03

STA. 90 + 00
EXIT 10
INGRAMS MILL

STA. 149 + 00
EXIT 14
BYHALIA

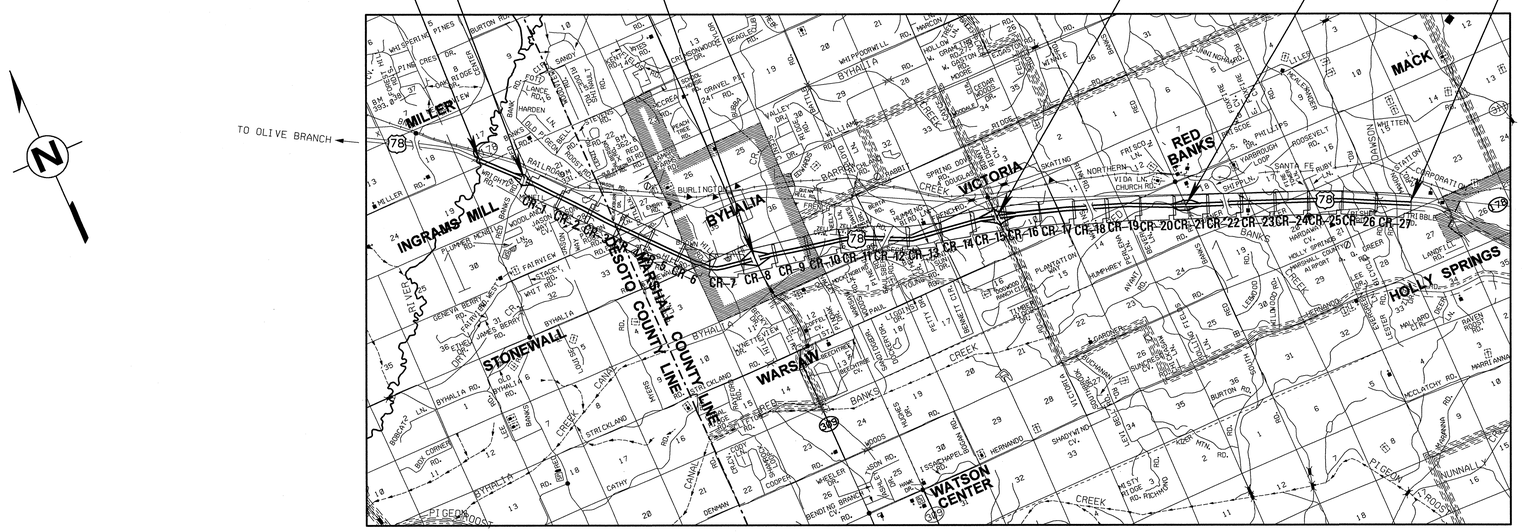
SCALES

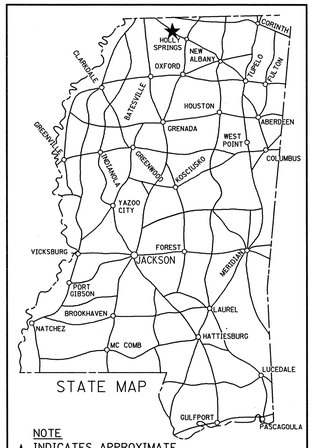
PLAN	1 IN. =	100 FT.
PROFILE HOR.	1 IN. =	100 FT.
PROFILE VERT.	1 IN. =	10 FT.
LAYOUT	1 IN. =	5280 FT.

STA. 371 + 25
EXIT 18
VICTORIA

STA. 538 + 00
EXIT 21
RED BANKS

E.O.P. STA. 197+00





NOTE
★ INDICATES APPROXIMATE LOCATION OF PROJECT.

LAT. 34° 50′ 36.61″ LONG. 89° 38′ 09.54″
(APPROX. MIDDLE OF PROJECT)

DESIGN CONTROL

_____ MPH = V (SPEED DESIGN)

ADT (2009) = 30,000 : ADT (2029) = 48,000

DHV = 5300 : D = 60% T = 24%

PERMITS ACQUIRED BY MDOT

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

	WATERS	WETLANDS
NATIONWIDE #14	N	N
NATIONWIDE (OTHER)*	N	N
GENERAL*	N	N
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 (DISTRIBUTED AREA = 5 ACRES +)(NTB 586)
S	REQUIRED, SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES)(NTB 14)
N	NO STORMWATER PERMIT REQUIRED (<1 ACRE)

APPROVED BY: JCT DATE: 07–19–2010

EQUATIONS

SURVEY IS STATIONED EAST TO WEST FROM DESOTO COUNTY LINE TO BEGINNING OF PROJECT AND WEST TO EAST FROM COUNTY LINE TO END OF PROJECT.

STA. 21 + 92.64 BK = STA. 10 + 00 AH + 1192.64 FT. COUNTY LINE
STA. 75 + 38.60 BK = STA. 75 + 28.6 AH + 10.00 FT.
STA. 100 + 81.19 BK = STA. 100 + 74.29 AH + 6.90 FT.
STA. 296 + 65.2 BK = STA. 296 + 64.71 AH + 0.49 FT.
STA. 371 + 00.00 BK = STA. 370 + 85.15 AH + 14.85 FT.
STA. 500 + 47.5 BK = STA. 500 + 47.61 AH –0.49 FT.
STA. 653 + 86.22 BK = STA. 124 + 85.70 AH + 52,900.52 FT.

EXCEPTIONS

NONE

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

LENGTH OF ROADWAY	83,976.58 FT.	15.905 MI.
LENGTH OF BRIDGES	1263.18 FT.	0.239 MI.
LENGTH OF PROJECT (NET)		16.144 MI.
LENGTH OF EXCEPTIONS	FT.	MI.
LENGTH OF PROJECT (GROSS)		16.144 MI.

100

REVISIONS: BY / DATE

APPROVED:
CHIEF ENGINEER — DATE 7/19/10
EXECUTIVE DIRECTOR — DATE 7/19/10
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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

STATE	PROJECT NO.
MISS.	NH-0006-01(084)

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
TITLE SHEETS (1)		
TITLE SHEET		1
DETAILED INDEX & GENERAL NOTES SHEET (8)		
DETAILED INDEX	DI-1	2
DETAILED INDEX	DI-2	3
DETAILED INDEX	DI-3	4
DETAILED INDEX AND ITS LEGEND	DI-4	5
GENERAL NOTES	GN-1	6
GENERAL NOTES	GN-2	7
GENERAL NOTES - SUMMARY OF STATIONS	GN-3	8
ITS GENERAL NOTES	GN-4	9
TYPICAL SECTION SHEETS (11)		
TYPICAL SECTION - B.O.P. STA. 158+03 TO STA. 90+00 COLDWATER RIVER TO INGRAMS MILL	TS-1	10
TYPICAL SECTION - 12 1/4" STRUCTURE THICKNESS INCLUDES PROPOSED I-269 INTERCHANCE	TS-2	11
TYPICAL SECTION - RUBBLIZED CONCRETE SECTION	TS-3	12
TYPICAL SECTION - PREFABRICATED EDGE DRAIN DETAILS, RUBBLIZED CONCRETE SECTION	TS-4	13
TYPICAL SECTION TRANSITION INTO 10" STRUCTURE THICKNESS	TS-5	14
TYPICAL SECTION 10" STRUCTURE THICKNESS	TS-6	15
TYPICAL SECTION 2-LANE LOCAL ROADS AT INTERSECTIONS	TS-7	16
TYPICAL SECTION CAYCE RD. (VICTORIA INTERCHANGE)	TS-8	17
TYPICAL SECTION (RAMP EXTENSION HWY 309)	TS-9	18
TYPICAL SECTION FOR INTERCHANGE RAMPS AT INGRAMS MILL	TS-10	19
TYPICAL SECTION FOR INTERCHANGE RAMPS AT SR 309, VICTORIA AND RED BANKS	TS-11	20
QUANTITY SHEETS (31)		
SUMMARY OF QUANTITY	SQ-1	21
SUMMARY OF QUANTITY	SQ-2	22
SUMMARY OF QUANTITY	SQ-3	23
SUMMARY OF QUANTITY	SQ-4	24
SUMMARY OF QUANTITY	SQ-5	25
SUMMARY OF QUANTITY	SQ-6	26
SUMMARY OF QUANTITY - ITS	SQ-7	27
ESTIMATED QUANTITY - REMOVAL OF ASPHALT, COLD MILLING	EQ-1	28
ESTIMATED QUANTITY - REMOVAL OF DRAINAGE STRUCTURES	EQ-2	29
window area	EQ-3	30
ESTIMATED QUANTITY - DITCH PLUGS AND GUARDPOSTS, PAVED DITCH	EQ-4	31
ESTIMATED QUANTITY - ESTIMATED EARTHWORK	EQ-5	32
ESTIMATED QUANTITY - EROSION CONTROL ITEMS	EQ-6	33
ESTIMATED QUANTITY - RUBBLIZATION & REMOVAL	EQ-7	34
ESTIMATED QUANTITY - BRIDGE ITEMS	EQ-8	35
ESTIMATED QUANTITY - DRAINAGE STRUCTURES	EQ-9	36
ESTIMATED QUANTITY - GUARDRAIL ITEMS	EQ-10	37
ESTIMATED QUANTITY - GUARDRAIL ITEMS	EQ-11	38
ESTIMATED QUANTITY - FENCING ITEMS	EQ-12	39
ESTIMATED QUANTITY - TEMPORARY STRIPE QUANTITIES	EQ-13	40
ESTIMATED QUANTITY - TEMPORARY STRIPE QUANTITIES	EQ-14	41
ESTIMATED QUANTITY - PERMANENT STRIPE QUANTITIES	EQ-15	42
ESTIMATED QUANTITY - PERMANENT STRIPE QUANTITIES	EQ-16	43
ESTIMATED QUANTITY FOR TRAFFIC CONTROL SIGNS	EQ-17	44
ESTIMATED QUANTITY - POST MOUNTED DELINEATORS	EQ-18	45
ESTIMATED QUANTITY - STANDARD ROADSIDE SIGNS	EQ-19	46
ESTIMATED QUANTITY - DIRECTIONAL SIGN QUANTITY	EQ-20	47
ESTIMATED QUANTITY STANDARD ROADSIDE SIGNS ASSEMBLIES	EQ-21	48
ESTIMATED QUANTITY - REMOVE AND RESET SIGNS (ALL SIZES)	EQ-22	49
ESTIMATED QUANTITY - DIRECTIOAN SIGN QUANTITY	EQ-23	50
ESTIMATED QUANTITY - DIRECTIOAN SIGN QUANTITY	EQ-24	51

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
PLAN VIEW OF CONCRETE REHABILITATION (27)		
CONCRETE REHABILITATION - STATION 92+50 TO STATION 80+00	CR-1	52
CONCRETE REHABILITATION - STATION 80+00 TO STATION 50+00	CR-2	53
CONCRETE REHABILITATION - STATION 50+00 TO STATION 21+92.60	CR-3	54
CONCRETE REHABILITATION - STATION 10+00 TO STATION 40+00	CR-4	55
CONCRETE REHABILITATION - STATION 40+00 TO STATION 70+00	CR-5	56
CONCRETE REHABILITATION - STATION 70+00 TO STATION 100+00	CR-6	57
CONCRETE REHABILITATION - STATION 100+00 TO STATION 130+00	CR-7	58
CONCRETE REHABILITATION - STATION 130+00 TO STATION 160+00	CR-8	59
CONCRETE REHABILITATION - STATION 160+00 TO STATION 190+00	CR-9	60
CONCRETE REHABILITATION - STATION 190+00 TO STATION 220+00	CR-10	61
CONCRETE REHABILITATION - STATION 220+00 TO STATION 250+00	CR-11	62
CONCRETE REHABILITATION - STATION 250+00 TO STATION 280+00	CR-12	63
CONCRETE REHABILITATION - STATION 280+00 TO STATION 310+00	CR-13	64
CONCRETE REHABILITATION - STATION 310+00 TO STATION 340+00	CR-14	65
CONCRETE REHABILITATION - STATION 340+00 TO STATION 370+00	CR-15	66
CONCRETE REHABILITATION - STATION 370+00 TO STATION 400+00	CR-16	67
CONCRETE REHABILITATION - STATION 400+00 TO STATION 430+00	CR-17	68
CONCRETE REHABILITATION - STATION 430+00 TO STATION 460+00	CR-18	69
CONCRETE REHABILITATION - STATION 460+00 TO STATION 490+00	CR-19	70
CONCRETE REHABILITATION - STATION 490+00 TO STATION 520+00	CR-20	71
CONCRETE REHABILITATION - STATION 520+00 TO STATION 550+00	CR-21	72
CONCRETE REHABILITATION - STATION 550+00 TO STATION 580+00	CR-22	73
CONCRETE REHABILITATION - STATION 580+00 TO STATION 610+00	CR-23	74
CONCRETE REHABILITATION - STATION 610+00 TO STATION 640+00	CR-24	75
CONCRETE REHABILITATION - STATION 640+00 TO STATION 140+00	CR-25	76
CONCRETE REHABILITATION - STATION 140+00 TO STATION 170+00	CR-26	77
CONCRETE REHABILITATION - STATION 170+00 TO STATION 194+00	CR-27	78
ITS SHEETS (SEE DI-4)		79-100.023

DISTRICT 2/McCOLLUM

PS & E PLANS-DATE: 7/20/10		
FMS CON. # 105510 / 301000		
REVISIONS		
DATE	SHEET NO.	BY

100

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. NH-0006-01(084)
COUNTY : DESOTO & MARSHALL

WORKING NUMBER DI-1

SHEET NUMBER 2

FILENAME: 002 DETAILED INDEX.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

DATE | REVISION | BY

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

7/20/2010 1:07 PM 002 DETAILED INDEX.DGN

STATE	PROJECT NO.
MISS.	NH-0006-01(084)

SPECIAL DESIGN SHEETS (61)

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
INTERCHANGE DESIGN FOR HIGH-SPEED PARALLEL EXIT RAMP	SD-1	100.024
INTERCHANGE DESIGN FOR HIGH-SPEED PARALLEL ENTRANCE RAMP	SD-2	100.025
EDGE DRAIN DETAIL: CONCRETE APRON AND RODENT SCREEN	EDD-1	100.026
DETAIL OF EDGE DRAINS	EDD-2	100.027
VEGETATION SCHEDULE	VS-1	100.028
BRIDGE APPROACH DETAIL	BAD-1	100.029
BRIDGE JOINT REPAIR	BJR-1	100.030
LOCATION OF PERMANENT TRAFFIC COUNTER	TC-1	100.031
VEHICLE CLASSIFICATION & AXLE DETECTOR SYSTEM - 4 LANE DIVIDED ROADWAY LAYOUT PLAN	TC-2	100.032
EQUIPMENT CABINET	TC-3	100.033
CONSTRUCTION SEQUENCE (CONCRETE REMOVAL)	CS-1	100.034
CONSTRUCTION SEQUENCE (RUBBLIZE CONCRETE PAVEMENT)	CS-2	100.035
TRAFFIC CONTROL PLAN TYPICAL TRAFFIC LANE SHIFT	TSP-1	100.036
TRAFFIC CONTROL PLAN TYPICAL TRAFFIC LANE SHIFT	TSP-2	100.037
TRAFFIC CONTROL PLAN TYPICAL TRAFFIC LANE SHIFT	TSP-3	100.038
TRAFFIC CONTROL PLAN TYPICAL TRAFFIC LANE SHIFT	TSP-4	100.039
LANE CLOSURE DETAILS FOR FULL DEPTH CONRETE PAVEMENT REPAIR	LCD-1	100.040
TRAFFIC CONTROL DETAILS DRUM PLACEMENT AND SHOULDER CLOSURE	TCP-SC	100.041
DETAIL OF CONSTRUCTION SIGNING	DCS-1	100.042
LOCATION OF R16-3 SIGNS	SSD-1	100.043
DIRECTIONAL SIGN DETAIL	DSD-1	100.044
TYPICAL INTERCHANGE DELINEATOR PLACEMENT	PS-1	100.045
DETAIL OF GUARD POST	DGP-1	100.046
SPECIAL DESIGN: RUMBLE STRIPES (GROUND-IN) 2-LANE WITH PAVED SHOULDERS	RS-2La	100.047
RUMBLE STRIPE 4-LANE HIGHWAY	RS-4L	100.048
FENCE: TYPICAL INSTALLATION AT BRIDGES	SDFI-1	100.049
TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT LESS THAN 65 MPH (4-LANE: MEDIAN OR OUTSIDE LANE CLOSURE) (EXTENDED PERIOD)	SDTCP-3	100.050
TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH (INTERSTATES & OTHER 4-LANE DIVIDED HIGHWAYS) (MEDIAN LANE OR OUTSIDE LANE CLOSURE) (EXTENDED PERIOD)	SDTCP-4	100.051
SUPERELEVATION RUNOFF CASE I ROTATION ABOUT CENTERLINE	SDRO-1	100.052
SUPERELEVATION CASE II ROTATION ABOUT EDGE OF TRAVELED WAY	SDRO-2	100.053
SUPERELEVATION TRANSITION FOR LOCAL FACILITIES (V ≤ 40)	SDSE-1	100.054
SUPERELEVATION CASE I CENTERLINE (2% NORMAL SUBGRADE)	SDSE-2A	100.055
SUPERELEVATION CASE II ROTATION ABOUT EDGE OF TRAVELED WAY (2% NORMAL GRADE)	SDSE-2C	100.056
SPECIAL DESIGN GUARD RAIL BRIDGE END SECTION TYPE "A-MODIFIED" & TYPE "C-MODIFIED"	GR-ACE	100.057
SPECIAL DESIGN BRIDGE-GUARD RAIL CONNECTOR	BGRC-1	100.058
TYPICAL TEMPORARY EROSION/SEDIMENT CONTROL APPLICATIONS	ECD-1	100.059
DETAILS OF SEDIMENT BARRIER APPLICATIONS	ECD-2	100.060
DETAILS OF SILT FENCE INSTALLATION	ECD-3	100.061
DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS	ECD-4	100.062
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES, SILT FENCE AND HAY BALE DITCH CHECKS	ECD-5	100.063
DETAILS OF EROSION CONTROL WATTLE DITCH CHECK	ECD-6	100.064
DETAILS OF EROSION CONTROL SILT DIKE DITCH CHECK	ECD-7	100.065
ROCK DITCH CHECK	ECD-8	100.066
ROCK DITCH CHECK WITH SUMP EXCAVATION	ECD-9	100.067
INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS	ECD-10	100.068
INLET PROTECTION DETAILS FOR COARSE AGGREGATE ON GRADES & SAGS	ECD-11	100.069
INLET PROTECTION DETAILS OF WATTLES	ECD-12	100.070
INLET PROTECTION DETAILS OF MANUFACTURED INLET PROTECTION DEVICE	ECD-13	100.071
INLET PROTECTION DETAILS OF SAND BAG	ECD-14	100.072
STABILIZED CONSTRUCTION ENTRANCE	ECD-15	100.073

SPECIAL DESIGN SHEETS (CONT'D)

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
TEMPORARY CULVERT STREAM CROSSING	ECD-16	100.074
TEMPORARY STREAM DIVERSION	ECD-17	100.075
TEMPORARY STREAM DIVERSION (BOX EXTENSIONS)	ECD-18	100.076
FLOATING TURBIDITY CURTAIN	ECD-19	100.077
DETAILS OF EROSION CONTROL SANDBAG DITCH CHECK	ECD-20	100.078
TYPICAL TEMPORARY EROSION CONTROL MEASURES (TYPE "C1" SILT BASIN) (UPSTREAM OF ROADWAY PRIMARILY CAN BE USED DOWNSTREAM)	TEC-C1	100.079
TYPICAL TEMPORARY EROSION CONTROL MEASURES (TYPE "C2" SILT BASIN) DOWNSTREAM OF ROADWAY WITH BAFFLE)	TEC-C2	100.080
DETAILS OF TYPICAL DITCH TREATMENTS	DT-1	100.081
DITCH TREATMENT INSTALLATION DETAIL FOR SOIL REINFORCING MAT	DT-1A	100.082
TYPICAL TEMPORARY EROSION CONTROL MEASURES (SLOPE DRAIN AND TYPE A SILT BASIN)	TEC-2	100.083
TYPICAL TEMPORARY EROSION CONTROL MEASURES (TYPE "D" SILT BASIN) (RIPRAP DIKE SILT BASIN)	TEC-D	100.084

STANDARD DRAWING SHEETS (79)

DESCRIPTION OF SHEET		WKG. NO.	SH. NO.
CONTINUOUSLY REINFORCED CONCRETE PAVEMENT: 24 FT. WIDE		CRP-1	101
BRIDGE END PAVEMENT		BE-1	107
PAVEMENT MARKING DETAILS FOR 2 & 4-LANE DIVIDED ROADWAYS	(12-01-99)	PM-1	120
PAVEMENT MARKING DETAILS FOR INTERCHANGE ENTRANCE RAMPS (PARALLEL & TAPER)	(12-01-99)	PM-3	122
PAVEMENT MARKING DETAILS FOR INTERCHANGE EXIT RAMPS (PARALLEL & TAPER)	(12-01-99)	PM-4	123
PAVEMENT MARKING LEGEND DETAILS		PM-5	124
PAVEMENT MARKING LEGEND DETAILS		PM-6	125
4-LANE TO 2-LANE TRANSITION AT INTERCHANGE	(3-01-02)	PM-8	127
EROSION CONTROL		EC-1	140
TYPICAL TEMPORARY EROSION CONTROL MEASURES (SILT FENCE, HAY BALES & BRUSH BARRIER)		TEC-1	142
TYPICAL TEMPORARY EROSION CONTROL MEASURES (TYPE B SILT BASIN)		TEC-3	144

100

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. NH-0006-01(084)
COUNTY : DESOTO & MARSHALL

WORKING NUMBER DI-2

FILENAME: 002 DETAILED INDEX.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

SHEET NUMBER 3

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
7/20/2010 1:07 PM 002 DETAILED INDEX.DGN

STATE	PROJECT NO.
MISS.	NH-0006-01(084)

DESCRIPTION OF SHEET		WKG. NO.	SH. NO.
STANDARD DRAWING SHEETS (CONTINUED)			
FENCE: WOVEN WIRE TIMBER POSTS		WW-1	160
FENCE: CHAIN LINK CLASS I	(3-01-02)	CL-1	162
FENCE: TYPICAL INSTALLATION AT BRIDGES		FI-1	164
FENCE: TYPICAL INSTALLATION AT DRAINAGE STRUCTURES		FI-2	165
FENCE: TYPICAL INSTALLATION AT DITCH CROSSINGS & FENCE ENDINGS		FI-3	166
FENCE: ALUMINUM OR GALVANIZED FERROUS METAL GATE		AG-1	167
FENCE: CHAIN LINK GATE	(3-01-02)	CLG-1	168
GUARDRAIL: "W" BEAM (WOOD POSTS)		GR-1	180
GUARDRAIL: "W" BEAM (STEEL POSTS)	(3-01-02)	GR-1B	182
GUARDRAIL: BRIDGE END SECTIONS TYPE A & C		GR-2	184
GUARDRAIL: BRIDGE END SECTIONS E, F & G		GR-2A	185
GUARDRAIL: BRIDGE END SECTIONS D MODIFIED		GR-2B	186
GUARDRAIL: BRIDGE END SECTION TYPE H MODIFIED (WOOD POSTS)		GR-2C	187
GUARDRAIL: BRIDGE END SECTION TYPE H (STEEL POSTS)		GR-2D	188
GUARDRAIL: BRIDGE END SECTIONS G MODIFIED		GR-2E	189
GUARDRAIL: TYPE 1 CABLE ANCHORAGE (FOUNDATION TUBE)	(3-01-02)	GR-3	192
GUARDRAIL: TYPE 1 CABLE ANCHORAGE (CONCRETE FOOTING)		GR-3A	193
GUARDRAIL: TYPICAL INSTALLATION AT BRIDGE APPROACHES FOR DIVIDED HIGHWAYS	(12-01-99)	GR-4	194
GUARDRAIL: TYPICAL INSTALLATION AT BRIDGE APPEOACHES FOR 2-LANE, 2-WAY HIGHWAY	(12-01-99)	GR-4A	195
GUARDRAIL: MISCELLANEOUS HARDWARE	(3-01-02)	GR-HW	202
MEDIAN BARRIER: CONCRETE (PRECAST)		MB-2A	205
GUARD POST		GP-1	209
STANDARD DIRECTIONAL (GUIDE SIGNS)	(3-01-02)	SN-1	220
ROUTE SHIELDS AND "EXIT ONLY" PANELS		SN-2	221
STANDARD ROADSIDE SIGNS		SN-3	222
STANDARD ROADSIDE SIGNS		SN-3A	223
STANDARD ROADSIDE SIGNS		SN-3B	224
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION		SN-4	225
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION		SN-4A	226
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION		SN-4B	227
TYPICAL INSTALLATION OF GROUND MOUNTED DIRECTIONAL SIGNS		SN-5	228
BREAKAWAY SIGN SUPPORTS		SN-6	229
BREAKAWAY SIGN SUPPORTS		SN-6A	230
BREAKAWAY SIGN SUPPORTS		SN-6B	231
SIGN FACE CONST. AND ATTACHMENT OF GROUND MOUNTED DIRECTIONAL SIGNS TO STEEL BEAMS (EXTRUDED ALUMINUM PANELS)	(3-01-02)	SN-7	232
TYPICAL INSTALLATION AND DETAILS OF DELINEATORS AND DISTANCE REFERENCE SIGNS		SN-8	233
TYPICAL INSTALLATION OF DELINEATORS		SN-8A	234
TYPICAL CROSSOVER DELINEATION	(12-01-99)	SN-8B	235
TYPICAL GUARDRAIL DELINEATION	(3-01-02)	SN-8C	236

DESCRIPTION OF SHEET		WKG. NO.	SH. NO.
STANDARD DRAWING SHEETS (CONTINUED)			
TRAFFIC CONTROL PLAN WITH FLAGGER (ONE LANE CLOSURE OF TWO-WAY TRAFFIC)		TCP-1	250
TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT LESS THAN 65 MPH (4- LANE: MEDIAN LANE OR OUTSIDE LANE CLOSURE)(WORK DAY ONLY)		TCP-2	251
TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH (4-LANE: MEDIAN OR OUTSIDE LANE CLOSURE)(WORK DAY ONLY)		TCP-5	254
4-LANE TO 2-LANE TRANSITION		TCP-6	255
2-LANE TO 4-LANE TRANSITION		TCP-7	256
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
DETAIL OF OUTSIDE LANE CLOSURE AT EXIT AND ENTRANCE RAMPS		TCP-12	261
TRAFFIC CONTROL PLANS UNEVEN PAVEMENT DETAILS		TCP-14	263
TEMPORARY STRIPING FOR TRAFFIC CONTROL 2-LANE & 4-LANE DIVIDED HIGHWAYS	(12-01-99)	TCP-15	264
RIGHT-OF-WAY MARKER	(3-01-02)	RW-1	270
RURAL DRIVEWAYS		RD-1	271
TYPICAL GRADING TRANSITION BETWEEN CUTS AND FILLS		GT-1	272
DETAILS OF PAVED FLUMES		PF-1	291
PIPE CULVERT INSTALLATION		PI-1	300
CONCRETE PIPE COLLAR		PC-1	301
JUNCTION BOX FOR PIPE CULVERTS		JB-1	302
TYPE I MEDIAN INLET (24" PIPE AND UNDER)	(3-01-02)	MI-1	306
TYPE I MEDIAN INLET (29" - 51" PIPE)		MI-1A	307
TYPE II MEDIAN INLET (51" PIPE AND UNDER)		MI-2	309
TYPE II MEDIAN INLET (51" PIPE AND UNDER)		MI-2A	310
MEDIAN INLET (FLUSH WITH DITCH PLUG)		MI-4A	313
DETAILS OF GRATES FOR MEDIAN INLETS		IG-1	314
PAVED INLET APRON AND MEDIAN DITCH PLUG		PA-1	318
DROP INLET AND GRATE DETAILS FOR PIPE AND CULVERTS		B-9	325
SMALL ANIMAL GUARD AND UNDERDRAIN MARKER	(3-01-02)	SAG-1	327
FLARED END SECTION FOR CONCRETE PIPE		FE-1	328
DETAILS OF NORMAL UNDERDRAIN AND STORM DRAIN USED AS UNDERDRAIN		UD-1	331
NORMAL UNDERDRAIN TYPE II		UD-2	332
TOTAL SHEETS			263

100

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. NH-0006-01(084)
COUNTY : DESOTO & MARSHALL

WORKING NUMBER DI-3

SHEET NUMBER 4

FILENAME: 002 DETAILED INDEX.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

7/20/2010 1:06 PM 002 DETAILED INDEX.DGN

STATE	PROJECT NO.
MISS.	NH-0006-01(084)

I.T.S. LEGEND

SHEET DESCRIPTION (4)	REVISION DATE	WORKING NUMBER	SHEET NUMBER
DETAILED INDEX & I.T.S. LEGEND (1)		DI-4	5
ITS GENERAL NOTES (1)		GN-4	9
SUMMARY OF QUANTITIES (1)		SQ-7	27
PROJECT LOCATION PLAN (1)		ITS-1	79

ITS PLAN SHEETS (28)			
US 78	COLDWATER RIVER TO 0.10 MILES SOUTHEAST OF BICYCLE RD.	ITS-2 TO ITS-29	80 TO 100.07

SPECIAL DESIGN SHEETS (16)			
CONDUIT DETAILS	AERIAL SUPPORTED CONDUIT DETAILS	ASC-1	100.008
CONDUIT DETAILS	AERIAL SUPPORTED CONDUIT DETAILS	ASC-2	100.009
CABINET DETAILS	TYPE B & C CABINET DETAILS	CAB-1	100.010
CCTV DETAILS	POLE-MOUNTED CCTV DETAILS	CCTV-1	100.011
DMS DETAILS	DMS # 1	DMS-1	100.012
DMS DETAILS	DMS # 2	DMS-2	100.013
EROSION CONTROL PLAN	EROSION CONTROL DETAILS	EC-2	100.014
EQUIPMENT DETAILS	SITE BLOCK DIAGRAMS	ED-1	100.015
FIBER OPTIC DETAILS	PULLBOX AND CONDUIT TRENCHING DETAILS	FO-1	100.016
FIBER OPTIC DETAILS	FIBER SPLICING DETAILS	FO-2	100.017
FIBER OPTIC DETAILS	TERMINATION CABINET TABLES	FO-3	100.018
FIBER OPTIC DETAILS	TERMINATION CABINET TABLES	FO-4	100.019
FIBER OPTIC DETAILS	CABLE MANAGEMENT DETAILS	FO-5	100.020
ELECTRICAL DETAILS	POWER SERVICE DETAILS	POW-1	100.021
ITS TRAFFIC CONTROL PLAN	NOTES	TC-1	100.022
ITS TRAFFIC CONTROL PLAN	NOTES AND PLAN	TC-2	100.023

	EXISTING	PROPOSED
CABLE (IN CONDUIT) - COMM.	C C	C C
CABLE (IN CONDUIT) - ELEC.	E E	E E
PULL BOX - COMM.		
PULL BOX - ELEC.	PB	PB
LABEL FOR PULL BOX TYPE		X
DEMARC. PT. (POWER ONLY)		
DEMARC. PT. (POWER & COMM)		
TRAFFIC SIGNAL CABINET	TSC	TSC
CABINET (TYPE AS NOTED)	A	A
CCTV CAMERA (ALL TYPES)	CCTV	CCTV
DYNAMIC MESSAGE SIGN (DMS) (OVERHEAD)	DMS	DMS
DYNAMIC MESSAGE SIGN (DMS) (PEDESTAL)	DMS	DMS
RADAR DETECTION SYSTEM (RDS)	RDS	RDS
COMMUNICATIONS HUT	CH	CH
COMMUNICATIONS VAULT	V	V
TRANSFORMER		TR

100

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX AND ITS LEGEND

PROJECT NO. NH-0006-01(084)
COUNTY : DESOTO & MARSHALL

WORKING NUMBER DI-4
SHEET NUMBER 5

FILENAME:
DESIGN TEAM CHECKED DATE

REVISION BY DATE

ROADWAY DESIGN DIVISION C.A.D.D. SECTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
PLAN

7/16/2010

STATE	PROJECT NO.
MISS.	NH-0006-01(084)

GENERAL NOTES:

1. IN ORDER TO EXPEDITE THE SAFE MOVEMENT OF TRAFFIC AND TO PROTECT EACH PHASE OF THE WORK AS IT IS PERFORMED, A FIRM SEQUENCE OF OPERATIONS IS ESSENTIAL. THE WORK SHALL BEGIN AND BE CONTINUALLY PROSECUTED. THE CONTRACTOR MAY SUBMIT FOR REVIEW AND APPROVAL AN ALTERNATE SEQUENCE OF OPERATIONS.

2. HIGHWAYS, COUNTY ROADS, AND/OR CITY STREETS MAY REQUIRE NEW STRIPE.

3. THE CONTRACTOR SHALL PROVIDE ALL SIGNS AND TRAFFIC HANDLING DEVICES NECESSARY TO SAFELY MAINTAIN TRAFFIC AROUND OR THROUGH THE WORK AREAS.

4. DUE CARE SHALL BE TAKEN DURING BOTH TRENCH WIDENING AND GRANULAR MATERIAL OPERATIONS TO BLADE MATERIAL TOWARD THE ROADWAY AND AWAY FROM THE DITCH LINE. MATERIAL SHALL BE REMOVED FROM THE ROADWAY GRASS IF INADVERTENTLY BLADED THERE.

5. AT BRIDGE ENDS AND AT THE END OF THE WORK DAYS, THE CONTRACTOR SHALL PROVIDE A TAPER AT ANY VERTICAL JOINT ON A THREE (3) FOOT TO ONE (1) INCH VERTICAL SLOPE.

6. SHOULD MILLING BE REQUIRED WITHIN A CURB AND GUTTER SECTION, THE CONTRACTOR SHALL CONTINUOUSLY KEEP THE TRAVEL SURFACE FREE FROM SURFACE WATER. THIS MAY REQUIRE CONTINUOUS TWENTY–FOUR (24) HOUR MONITORING AND SWEEPING OF THE PROJECT.

7. REMOVAL OF FAILED BASE WILL NOT BE PAID AS SHOWN ON SHEETS PR–1A AND PR–1B. THIS REMOVAL WILL BE PAID AS EXCESS EXCAVATION, AS SHOWN ON THE TYPICAL SECTIONS.

8. BRIDGE END PAVEMENT TO BE CONSTRUCTED IN PHASES TO THE CENTER LINE OF ROADWAY USING TIE BARS AS SHOWN IN GENERAL NOTES #1 IN WORKING SHEET NUMBER BE–1.

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

10. IT SHALL BE THE RESPONSIBILTY 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. ANY STRUCTURES DAMAGED DURING THE LIFE OF THE CONTRACT MUST BE REPAIRED AT NO EXPENSE TO THE DEPARTMENT.
NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.

11. 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.

12. THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE INVOLVED UTILITY OWNERS, AND PLACE A MS ONE CALL, TO HAVE UNDERGROUND UTILITY LINES FIELD LOCATED IN ADVANCE OF CONSTRUCTION.

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

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

15. ALL POST LENGTHS FOR SIGNS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION.

16. REMOVAL OF ITEMS THAT CONFLICT WITH THE REQUIRED CONSTRUCTION FOR WHICH NO PAY ITEM IS SHOWN SHALL BE INCLUDED IN THE COST OF CLEARING AND GRUBBING.

17. QUANITY ESTIMATED FOR EROSION CONTROL CHECK IS REQUIRED AS A TEMPORARY EROSION CONTROL MEASURE TO MINIMIZE SILTATION UNTIL PERMANENT MEASURE INSTALLED. THE ENGINEER WILL DETERMINE THE ACTUAL LOCATION & NUMBER OF BALES DURING CONSTRUCTION. (SEE WK. NO. TEC–1)

18. SOME WORK MAY BE REQUIRED OUTSIDE THE PROJECT LIMITS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR SUCH WORK EXCEPT AS PROVIDED BY SPECIFIC PAY ITEMS SHOWN ON THE PLANS.

19. UPON COMPLETION OF CONSTRUCTION ALL VERTICAL BRIDGE CLEARANCES MUST MEET A MINIMUM REQUIREMENT OF 16' 6" CLEARANCE—WITH EXCEPTION TO THE EASTBOUND LANE AT TURNER RD. WHICH SHALL HAVE A MINIMUM OF 16' 3" AND PIGEON ROOST ROAD, WHICH SHALL HAVE A MINIMUM CLEARANCE OF 16' 5 3/4" EASTBOUND AND 16' 4 3/4" WESTBOUND.

20. AS BUILTS WILL BE PROVIDED AT THE PRECONSTRUCTION CONFERENCE AT THE CONTRACTOR'S REQUEST FOR EXISTING GRADE.

21. ALLOWABLE DISTANCE BETWEEN LANE CLOSURES: 2 MILES IN THE SAME LANE, 3 MILES IN OPPOSITE LANES.

UTILITIES:
Town of Byhalia 662–838–2138
City of Holly Springs 662–252–4411
North East Electric 662–234–6331
Northcentral Electric 662–838–2151
CenturyTel Telephone 662–895–3400

UTILITIES:
Transcanada 615–465–5109
Trunkline Gas 337–475–4203
Marathon Pipeline LLC 662–449–0502
Shell Pipeline 662–895–3604
Tennessee Gas 615–221–1527
Mid Valley Pipeline 931–647–5330

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

PROJECT NO.: NH–0006–01(084)
COUNTY: DESOTO & MARSHALL

FILENAME: Generalnotes.DGN
DESIGN TEAM ____ CHECKED ____ DATE ____

WORKING NUMBER GN-1
SHEET NUMBER 6

ROADWAY DESIGN DIVISION C.A.D.D. SECTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
PLAN

STATE	PROJECT NO.
MISS.	NH-0006-01(084)

GENERAL NOTES:

22. ALL TRAFFIC CONTROL DEVICES ON THIS PROJECT SHALL COMPLY WITH PART VI OF THE MUTCD (LATEST EDITION).

23. 25% SHRINKAGE FACTOR USED IN THE EARTHWORK CALCULATIONS IS FOR DESIGN ESTIMATING PURPOSES ONLY.

24. WIRE FENCE WILL BE REQUIRED FOR ALL SILT FENCE (SEE WK. NO. TEC–1).

25. REMOVAL OF RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH REQUIRED CONSTRUCTION IS NOT CONSIDERED A SEPARATE PAY ITEM. COST TO BE ABSORBED IN OTHER ITEMS BID.

26. REMOVAL OF OBJECT MARKERS IS NOT CONSIDERED A SEPARATE PAY ITEM.

27. WHERE MILLING OF THE ROADWAY LANES IS REQUIRED, THE CONTRACTOR SHALL PROVIDE OUTLETS IN THE EXISTING SHOULDERS AT SUFFICIENT INTERVALS TO PREVENT POOLING OR STANDING WATER ON THE MILLED SURFACE. (ABSORBED ITEM)

28. THE EROSION CONTROL DEVICES REFERENCED IN THESE PLANS ARE A MINIMUM REQUIREMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SILT DOES NOT LEAVE THE RIGHT OF WAY OR CONTAMINATE WATERS OF THE U.S. DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF WORK AND MAINTAIN THE PLAN DURING CONSTRUCTION.

29. EXCEPT AS NOTED ELSEWHERE IN THE PLANS, ALL EXISTING LOGO SIGNS AND ADOPT–A–HIGHWAY SIGNS ARE TO REMAIN IN PLACE. LOGO SIGNS WHICH CONFLICT WITH PROPOSED CONSTRUCTION SIGNING OR IF DIRECTED BY THE PROJECT ENGINEER, WILL BE RELOCATED BY MS LOGOS, INC.

30. SIGN SUPPORT FOOTINGS SHALL BE REMOVED AND BACKFILLED WITH GRANULAR MATERIAL OR TOPSOIL AS APPROVED BY THE PROJECT ENGINEER. THE BACKFILL MATERIAL IS NOT A SEPARATE PAY ITEM. THE REMOVAL IS TO BE PAID FOR UNDER PAY ITEM 202–B.

31. ALL EXISTING SIGNS AND SUPPORTS THAT ARE DETAILED TO BE REMOVED, OR IT IS NECESSARY TO REMOVE AND REPLACE ANY PORTION OF THE SIGN ASSEMBLY, THEN THAT MATERIAL SHALL BE STOCKPILED WITHIN THE PROJECT LIMITS AT A POINT DESIGNATED BY THE ENGINEER(NOT A SEPRATE PAY ITEM).

32. CLEARING AND GRUBBING TO PROVIDE THE REQUIRED SIGHT FLARE WILL BE PERFORMED TO A DISTANCE DEFINED BY THE HYPOTENUSE OF THE TRIANGLE FORMED BY A 1000 FOOT LEG PARALLEL TO THE OUTSIDE LANE AND THE LEG PREPENDICULAR TO THE OUTSIDE LANE FROM THE EDGE OF PAVEMENT TO FIVE FEET BEYOND THE FARTHEST EDGE OF THE SIGN. TO BE PAID FOR UNDER APPROPRIATE PAY ITEMS.

33. ERECTION DATES ARE TO BE LEGIBLY WRITTEN ON THE BACKS OF ALL SIGNS.

34. DIRECT APPLIED LEGEND, BORDERS, AND SHIELD ARE TO BE USED ON ALL GUIDE SIGNS. RIVETS WILL NOT BE ALLOWED.

35. ALL POST, PIPE, AND I–BEAM LENGTHS ARE ESTIMATES. CONTRACTOR IS RESPONSIBLE FOR PERFORMNG A FIELD SURVEY TO DETERMINE THE EXACT LENGTHS AND SHALL PROVIDE CALCULATIONS TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

36. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A MICROSOFT EXCEL SPREADSHEET WITH THE FOLLOWING INFORMATION ABOUT EACH SIGN TO THE STATE TRAFFIC ENGINEER: COUNTY, LONGITUDE, LATITUDE, MUTCD CODE, SIZE, BACKGROUND COLOR LEGEND COLOR, METHOD OF MOUNTING(i.e. POST,PIPE, I–BEAM) NUMBER OF SUPPORTS, DATE OF ERECTION, DIRECTION OF TRAVEL, DIRECTION THE SIGN IS FACING, LEGEND CONTAINED ON SIGN (IF APPLICABLE). EACH SIGN SHALL BE ASSIGNED A UNIQUE IDENTIFICATION NUMBER. DIGITAL PHOTOGRAPHS OF EVERY SIGN SHALL BE SUBMITTED IN MICROSOFT WINDOWS BITMAP FORMAT. THE FILE NAME USED FOR EACH IMAGE SHALL CORRESPOND TO THE UNIQUE INDENTIFICATION NUMBER FOR EACH SIGN.

37. ALL EXISTING SIGNS WHICH ARE A PART OF THIS PROJECT ARE TO REMAIN IN PLACE UNTIL ONE OF THE FOLLOWING CONDITIONS APPLY: IF DETAILED TO "REMOVE AND REPLACE THE SIGN ASSEMBLY", THEN THE NEW SIGNS SHALL BE ERECTED; IF DETAILED TO "REMOVE AND RELOCATE",THEN THAT WORK SHALL BE DONE THAT SAME DAY; IF IT IS DETAILED "TO COMPLETELY REMOVE THE SIGN ASSEMBLY", THEN THAT WORK SHALL BE DONE AT A TIME APPROVED BY THE PROJECT ENGINEER OR AS DIRECTED BY THE PROJECT ENGINEER ON ALL CONDITIONS STATED.

38. RAISED PAVEMENT MARKERS WILL BE REQUIRED ON S.R. 309.

UTILITIES:
Town of Byhalia 662–838–2138
City of Holly Springs 662–252–4411
North East Electric 662–234–6331
Northcentral Electric 662–838–2151
CenturyTel Telephone 662–895–3400

UTILITIES:
Transcanada 615–465–5109
Trunkline Gas 337–475–4203
Marathon Pipeline LLC 662–449–0502
Shell Pipeline 662–895–3604

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

PROJECT NO.: NH–0006–01(084)
COUNTY: DESOTO & MARSHALL

WORKING NUMBER GN-2

FILENAME: Generalnotes.DGN
DESIGN TEAM ____ CHECKED ____ DATE ____

SHEET NUMBER 7

ROADWAY DESIGN DIVISION C.A.D.D. SECTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
PLAN