FED. ROAD REG. NO.	STATE	PROJECT NO.	SHEET NO.
4	MISS.	NH-0008-03(032)	1

STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY FEDERAL AID PROJECT NO. NH-0008-03(032)

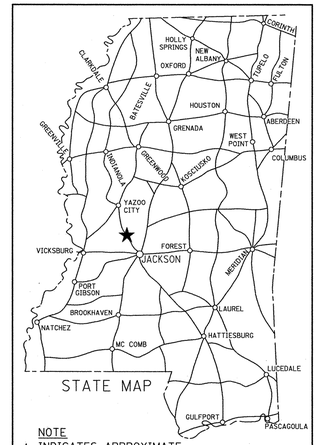
US 49 FROM THE HINDS COUNTY LINE TO THE YAZOO COUNTY LINE

MADISON COUNTY

SCALES

PLAN		1 IN. = 100 FT.
PROFILE	HOR.	1 IN. = 100 FT.
	VERT.	1 IN. = 10 FT.
LAYOUT		1 IN. = 4000 FT.

FMS CON# 100554 /301000



NOTE
★ INDICATES APPROXIMATE LOCATION OF PROJECT.

LAT. 32°33'06.92"N LONG. 90°19'17.88"W
(APPROX. MIDDLE OF PROJECT)

DESIGN CONTROL

65 MPH = V (SPEED DESIGN)

ADT (2011) = 14,000 : ADT (2031) = 21,000

DHV = 2300 : D = 60 % T= 14 %

PERMITS ACQUIRED BY MDOT

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

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

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

STORMWATER PERMIT [Y]

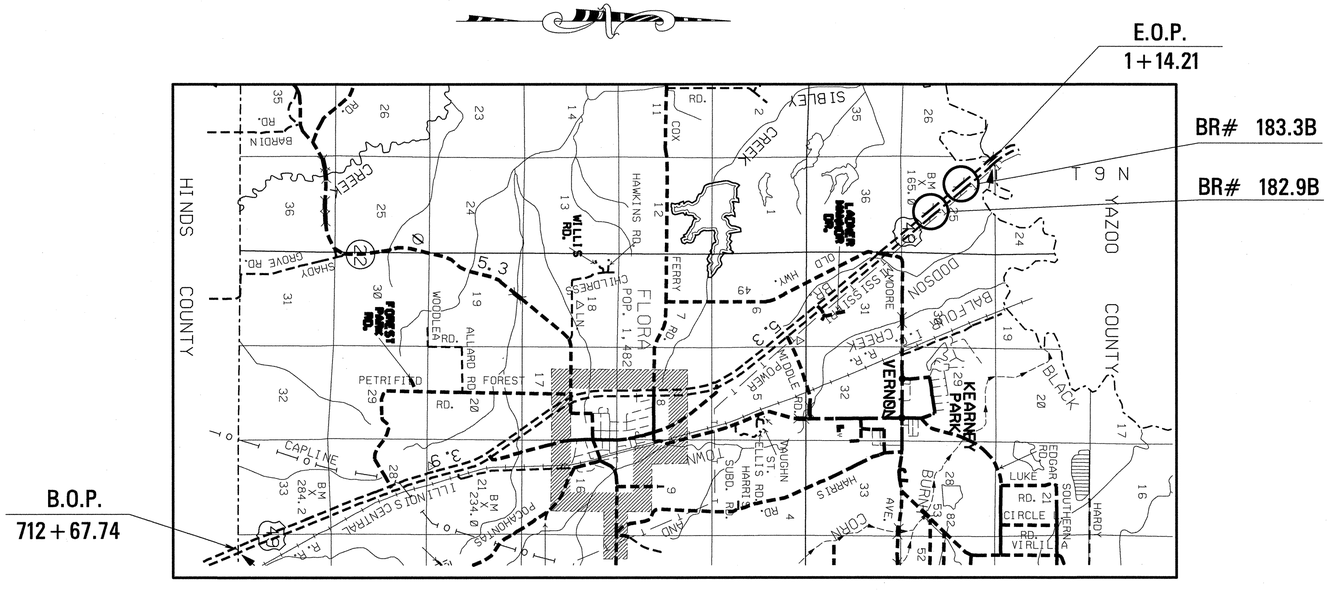
Y	REQUIRED, CNOI SUBMITTED BY MDOT (DISTRIBUTED AREA = 5 ACRES +)
S	REQUIRED, SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES)
N	NO STORMWATER PERMIT REQUIRED (<1 ACRE)

APPROVED BY: _____ DATE: 2/11/10

BRIDGE STRUCTURES REQ'D.

BR. NO. 182.9B
STA. 437+72.21
7 SPANS @ 40'
281.58 FEET

BR. NO. 183.3B
STA. 462+28.21
7 SPANS @ 40'
281.58 FEET



CONVENTIONAL SYMBOLS

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

EQUATIONS

STA. 730+24.89 BK/STA. 730+25.50 AH
STA. 867+15.67 BK/STA. 867+17.42 AH
STA. 1018+59.13 BK/STA. 306+00 AH
STA. 484+66.50 BK/STA. 00+33.50 AH

LENGTH DATA

LENGTH OF ROADWAY	47976.85 FT.	9.087 MI.
LENGTH OF BRIDGES	560.00 FT.	0.106 MI.
LENGTH OF PROJECT (NET)		MI.
LENGTH OF EXCEPTIONS	FT.	MI.
LENGTH OF PROJECT (GROSS)		9.193 MI.

110

REVISIONS | BY | DATE

APPROVED:
CHIEF ENGINEER — DATE 2/11/10

EXECUTIVE DIRECTOR — DATE 2/11/10

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

APPROVED:
DIVISION ADMINISTRATOR — DATE

FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
PROJECT DESIGN DIVISION C.A.D.D. SECTION
TITLE 3
PROJECT NAME: 0008030320000
PROJECT NUMBER: 0008030320000

1 st O. REV.

STATE	PROJECT NO.
MISS.	NH-0008-03(032)

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
TITLE SHEET (1)		1
DETAILED INDEX & GENERAL NOTES (4)		
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DETAILED INDEX	DI-2	3
DETAILED INDEX (BRIDGE)	DI-3	4
GENERAL NOTES	GN-1	5
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TYPICAL SECTION - EXISTING SOUTHBOUND	TS-2	7
TYPICAL SECTION - NORTHBOUND	TS-3	8
TYPICAL SECTION - NORTHBOUND	TS-4	9
TYPICAL SECTION - SOUTHBOUND	TS-5	10
TYPICAL SECTION - TEMPORARY CONNECTION	TS-6	11
TYPICAL SECTION - ISLAND REMOVAL & ASPHALT REPLACEMENT COX FERRY ROAD	TS-7	12
TYPICAL SECTION - LOCAL ROADS	TS-8	13
TYPICAL SECTION - CROSSOVERS	TS-9	14
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SUMMARY OF QUANTITIES	SQ-2	16
SUMMARY OF QUANTITIES	SQ-3	17
SUMMARY OF QUANTITIES	SQ-4	18
SUMMARY OF QUANTITIES (BRIDGE ITEMS)	SQ-5	19
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ESTIMATED QUANTITIES - REM. OF PAVEMENT, GUARD RAIL, STRIPE AND TEMP. GUARD RAIL REQ'D	EQ-2	20.1
ESTIMATED QUANTITIES - GUARD RAIL REQ'D BRIDGE END PAVEMENT REQ'D, JUNCTION BOXES	EQ-3	21
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ESTIMATED QUANTITIES - TRAFFIC CONTROL SIGNS	EQ-7	25
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ESTIMATED QUANTITIES FOR ROADSIDE SIGNS	EQ-11	28
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MAIN FACILITY - 850+00 TO 880+00	WK-8	35
MAIN FACILITY - 880+00 TO 910+00	WK-9	36
MAIN FACILITY - 910+00 TO 940+00	WK-10	37
MS. HWY. 22	WK-10A	38
MAIN FACILITY - 940+00 TO 970+00	WK-11	39
LOCAL ROAD AT STA. 965+56.74	WK-11A	40
MAIN FACILITY - 970+00 TO 1000+00	WK-12	41
MAIN FACILITY - 1000+00 TO 315+00	WK-13	42
MAIN FACILITY - 310+00 TO 340+00	WK-14	43
LOCAL ROAD AT 337+50	WK-14A	44
MAIN FACILITY - 340+00 TO 370+00	WK-15	45
MAIN FACILITY - 370+00 TO 400+00	WK-16	46
MAIN FACILITY - 400+00 TO 430+00	WK-17	47
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MAIN FACILITY - 460+00 TO EOP	WK-19	50

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
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WIDENING SOUTH BOUND LANES FOR DETOUR FROM 422+00 TO 452+00	WK-20B	53
MAIN FACILITY - 451+00 TO 480+00	WK-21	54
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TRAFFIC CONTROL PLANS - PHASE II	TC-2	59
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TRAFFIC CONTROL PLANS - TRAFFIC SHIFT NORTH	TC-5	62
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FMS CONSTR. NO.: 100554 / 301000

PS & E PLANS-DATE 02/16/10		
REVISIONS		
DATE	SHEET NO.	BY
3/10/10	15, 16, 17, 18, 22,	TG
	51, 54, 58, 71	
3/12/10	6, 7, 8, 10, 15, 16	TG
3/18/10	15	TG
3/24/10	8, 10	TG

T. GENO

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. NH-0008-03(032)
COUNTY : MADISON

WORKING NUMBER: DI-1

FILENAME: DI.DGN
DESIGN TEAM GENO CHECKED DATE

SHEET NUMBER: 2

BY / REVISION / DATE

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

3/24/2010 8:38 AM DI.DGN

STATE	PROJECT NO.
MISS.	NH-0008-03(032)

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
SPECIAL DESIGN SHEETS (CONT.)		
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TYPICAL TEMPORARY EROSION CONTROL MEASURES (TYPE "D" SILT BASIN) (RIPRAP DIKE SILT BASIN)	TEC-D	100.03
US 49 OVER BIG BLACK RIVER RELIEF	BEC 1 OF 4	100.04
US 49 OVER BIG BLACK RIVER RELIEF	BEC 2 OF 4	100.05
US 49 OVER BIG BLACK RIVER RELIEF	BEC 3 OF 4	100.06
US 49 OVER BIG BLACK RIVER RELIEF	BEC 4 OF 4	100.07
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PERMANENT SIGNING PLANS	PSP-2	100.09
PERMANENT SIGNING PLANS	PSP-3	100.10
PERMANENT SIGNING PLANS	PSP-4	100.11
PERMANENT SIGNING PLANS	PSP-5	100.12
PERMANENT SIGNING PLANS	PSP-6	100.13
PERMANENT SIGNING PLANS	PSP-7	100.14
PERMANENT SIGNING PLANS	PSP-8	100.15
PERMANENT SIGNING PLANS	PSP-9	100.16
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END BENT NO. 8R DETAILS	A5 OF 16	470
END BENT DETAILS	A6 OF 16	471
INT. BENTS NO. 2R-4R & 6R-7R DETAILS	A7 OF 16	472
INT. BENT NO. 5R DETAILS	A8 OF 16	473
40 FT. SPAN DETAILS FOR RIGHT LANE	A9 OF 16	474
PLAN OF 40 FT. SPANS NO. 1-4 DETAILS FLOR RIGHT LANE	A10 OF 16	475
PLAN OF 40 FT. SPANS NO. 5-7 DETAILS FOR RIGHT LANE	A11 OF 16	476
MISCELLANEOUS SPAN DETAILS	A12 OF 16	477
RAILING DETAILS	A13 OF 16	478
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CROSS-SECTIONS (35)		
MAINLINE (S.R. HWY. 49)		901-918
CROSSOVER SOUTH SIDE		919-921
CROSSOVER NORTH SIDE		922-924
SOUTHBOUND WIDENING FOR HEAD TO HEAD TRAFFIC		925-936
TOTAL SHEETS (240)		

110

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

PROJECT NO. NH-0008-03(032)
COUNTY : MADISON

WORKING NUMBER: DI-2
SHEET NUMBER: 3

REVISION | BY | DATE

FILENAME: DI.DGN
DESIGN TEAM GENO CHECKED DATE

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

2/11/2010 3:30 PM DI.DGN

STATE	PROJECT NO.
MISS.	NH-0008-03(032)

DESCRIPTION OF SHEETS SPECIAL DESIGN SHEETS - BRIDGE DRAWINGS	WORKING NUMBER	SHEET NUMBER
BRIDGE AT STA. 437+72.21 RT. LN. US 49 OVER BIG BLACK RIVER RELIEF (LAYOUT SHEET)	A1 of 16	466
BRIDGE AT STA. 437+72.21 RT. LN. US 49 OVER BIG BLACK RIVER RELIEF (FOUNDATION PLAN)	A2 of 16	467
GENERALIZED SOIL PROFILE	A3 of 16	468
END BENT NO. 1R DETAILS	A4 of 16	469
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BRIDGE AT STA. 462+28.21 RT. LN. US 49 OVER BIG BLACK RIVER RELIEF (LAYOUT SHEET)	B1 of 3	482
BRIDGE AT STA. 462+28.21 RT. LN. US 49 OVER BIG BLACK RIVER RELIEF (FOUNDATION PLAN)	B2 of 3	483
GENERALIZED SOIL PROFILE	B3 of 3	484

DESCRIPTION OF SHEETS INFORMATION PLANS - BRIDGE DRAWINGS	WORKING NUMBER	SHEET NUMBER
BRIDGE "A" AT STA. 437+75.00 BRIDGE "B" AT STA. 462+30.00	1 of 1	485

BRIDGE DIVISION REVISIONS		
DATE	SHEET NO.	BY

DEPARTMENT OF TRANSPORTATION MDOT MISSISSIPPI

REVISIONS

DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
DETAILED INDEX
(BRIDGE)

PROJECT 100554/301000
NH-0008-03(032)

MADISON COUNTY

WORKING NUMBER DI-3

SHEET NUMBER 4

DESIGNED BJJ DETAILED BJJ TRACED CADD

CHECKED MRD ISSUED MKC DATE 02-11-10

STATE	PROJECT NO.
MISS.	NH-0008-03(032)

GENERAL NOTES

1. TEMPORARY STRIPING SHALL CONFORM TO FINISHED STRIPE SPECIFICATIONS FOR ALIGNMENT AND STRAIGHTNESS.
2. REMOVAL OF RAISED PAVEMENT MARKERS IS NOT CONSIDERED A SEPARATE PAY ITEM.
3. TEMPORARY TRAFFIC STRIPE WILL BE REQUIRED IMMEDIATELY AFTER MILLING AND/OR OVERLAY OPERATIONS AND PRIOR TO OPENING THE AREA TO TRAFFIC. TEMPORARY STRIPE ON THE FINAL RIDING SURFACE SHALL BE PLACED IN THE SAME LOCATION AND LAYOUT AS THE PERMANENT STRIPE. TEMPORARY PAVEMENT MARKERS WILL BE REQUIRED DURING CONSTRUCTION AND SHALL BE REMOVED PRIOR TO PLACEMENT OF PERMANENT MARKERS.
4. THE CONTRACTOR SHALL ERECT AND MAINTAIN CONSTRUCTION SIGNING AND PROVIDE ALL SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY TO SAFELY MAINTAIN TRAFFIC AROUND AND THROUGH THE WORK AREAS IN ACCORDANCE WITH THE STANDARD DRAWINGS AND THE MUTCD. THE COST OF TRAFFIC CONTROL DEVICES IS TO BE INCLUDED IN THE PRICE BID FOR PAY ITEM 618-A, MAINTENANCE OF TRAFFIC. 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. TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE KEPT CLEAN AND IN SATISFACTORY CONDITION THROUGHOUT THE LIFE OF THE PROJECT.
5. GRASSING WILL BE REQUIRED AT ALL DISTURBED AREAS AS DIRECTED AND SHALL BE PERFORMED AT THE EARLIEST TIME TO MINIMIZE THE POTENTIAL FOR EROSION.
6. 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 SHALL BE EXERCISED IN UNDERCUT AREAS (IF ANY) AND 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 STRUCTURES.
7. THE CONTRACTOR IS TO REMOVE AND RESET ANY SIGNS WHICH CONFLICT WITH CONSTRUCTION (NOT A SEPARATE PAY ITEM).
8. THE LOCATION AND SPACING OF SIGNS, SHOWN ON THE TRAFFIC CONTROL PLANS, ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS.
9. VOIDS CREATED BY THE REMOVAL OF POSTS, CONCRETE ANCHORS, FOOTINGS, ETC., SHALL BE BACKFILLED AND TAMPED IN ACCORDANCE WITH SECTION 203 OF THE MS. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
10. INCIDENTAL WORK SUCH AS REMOVING VEGETATION, SHAPING AND COMPACTING SHOULDERS, REMOVING AND RESETTING SIGNS, REMOVING EXCESS ASPHALT MATERIAL, PROJECT CLEAN UP, AND OTHER ITEMS NECESSARY TO COMPLETE THE PROJECT WILL NOT BE MEASURED FOR SEPARATE PAYMENT AND WILL BE CONSIDERED INCLUDED IN THE PRICES OF OTHER ITEMS BID.
11. POTHOLES WHICH EXIST OR WHICH MAY OCCUR IN THE EXISTING PAVEMENT STRUCTURE ARE TO BE PATCHED IN A TIMELY MANNER AND PRIOR TO PAVING OPERATIONS.
12. ALL TRAFFIC CONTROL DEVICES ON THIS PROJECT SHALL COMPLY WITH PART VI OF THE MUTCD (LATEST EDITION).
13. 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).
14. WIRE BACKING IS REQUIRED ON ALL SILT FENCE.
15. ASPHALT IS TO BE EXTENDED UNDER THE GUARDRAIL AND TWO FEET BEHIND THE FACE OF THE GUARDRAIL WHICH IS PLACED AT BRIDGE ENDS OR AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. PRIOR TO PLACEMENT OF ASPHALT, NECESSARY REMOVAL OF THE EXISTING SHOULDER MATERIAL SHALL BE PERFORMED, AND COSTS ASSOCIATED WITH THIS REMOVAL SHALL BE INCLUDED IN THE PRICE OF OTHER ITEMS BID.
16. ALL DITCH PLUGS AND AUTHORIZED CROSSOVERS WILL BE BROUGHT TO CURRENT SAFETY STANDARDS. THE SLOPES WILL BE FLATTENED TO A 10:1 SLOPE WHICH MAY REQUIRE EXTENDING SOME MEDIAN PIPES, AND REMOVAL AND REPLACEMENT OF SOME PAVED DITCH, APRONS AND INLETS. PAYMENT WILL BE MADE USING THE APPROPRIATE PAY ITEMS.
17. REMOVAL OF OBJECT MARKERS IS NOT CONSIDERED A SEPARATE PAY ITEM.
18. WORK ON STRUCTURES FOR THIS PROJECT REQUIRES EXCAVATION IN THE IMMEDIATE VICINITY OF TRAFFIC AND ADJACENT PROPERTIES, THEREFORE THE RISK OF A FAILURE OCCURRING DURING THE EXCAVATION REQUIRES 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 PERSONS WORKING NEAR THE EXCAVATION OR ANY STRUCTURE ADJACENT TO THE EXCAVATION. ALL COSTS FOR ANY PROTECTIVE MEASURES, INCLUDING THE MATERIALS AND LABOR FOR DESIGNING, DRAWING AND CONSTRUCTING THE FACILITY, SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.
19. ALL EXISTING CULVERT PIPES OR OTHER OBSTRUCTIONS 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).
20. ALL POST LENGTHS FOR SIGNS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION.
21. ANY EXISTING UTILITIES ON THE DRAWINGS ARE SHOWN IN THEIR ORIGINAL LOCATION BASED UPON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. UTILITIES THAT WERE FOUND TO BE IN CONFLICT WITH CONSTRUCTION HAVE BEEN RELOCATED. PERMITS ARE ON FILE WITH THE DEPARTMENT SHOWING THE APPROXIMATE LOCATION OF UTILITIES RELOCATED WITHIN THE RIGHT-OF-WAY. 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.
22. 25% SHRINKAGE FACTOR USED IN THE EARTHWORK CALCULATIONS IS FOR DESIGN PURPOSES ONLY.
23. ALL PLASTIC DRUMS SHALL HAVE 2 BALLASTING COLLARS MADE FROM RECYCLED TRUCK TIRES OR OTHER SUITABLE MATERIALS.
24. A SOIL PROFILE PREPARED FOR THIS PROJECT ON SAMPLES TAKEN FROM HOLES AT LOCATIONS INDICATED IN THE TEST REPORTS IS ON FILE IN THE DESTRICT 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.
25. FOR A LIST OF PUBLIC UTILITIES, SEE WORKING SHEETS 20 AND 21.

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

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

HWY. 49

COUNTY: MADISON
PROJ. NO.: NH-0008-03(032)

WORKING NUMBER: GN-1

FILENAME: GN.DGN

DESIGN TEAM GENO CHECKED DATE

SHEET NUMBER: 5