

Melinda L. McGrath  
Deputy Executive Director/  
Chief Engineer

Brenda Znachko  
Deputy Executive Director/  
Administration



Steven K. Edwards  
Director  
Office of Intermodal Planning

Willie Huff  
Director  
Office of Enforcement

Larry L. "Butch" Brown  
Executive Director

P. O. Box 1850 / Jackson, Mississippi 39215-1850 / Telephone (601) 359-7001 / FAX (601) 359-7110 / GoMDOT.com

### *Inter-Departmental Memorandum*

**Date:** May 10, 2010  
**To:** Design Team Leaders  
**From:** Assistant Roadway Design Division Engineer  
Amy Mood  
**Subject:** Quantity Calculations

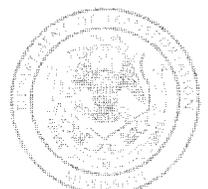
Earthwork quantities on all projects will now be checked. The minimum quantity of 200,000 CY no longer applies.

As part of the QC plans, provide a printout showing the difference between the existing grade and the proposed grade in overlay sections. There is a 3PC program for this under "Profiles."

Preliminary quantity calculations shall be distributed with the office review plans. Please provide the preliminary quantity calculations to Kevin Bracey when the print request for office review plans is sent. The quantity calculations should be unbound on 8 ½" x 11" paper to allow for easy scanning. The cover sheet of the quantity calculations will be the project's title sheet with "QUANTITY CALCULATIONS" under it. See attached example. There is a cell named QCTITLE in the rwd.cel cell library with the text and two snap points to aid in printing the cover sheet. Snap to the lower-left corner of the interior border of the title sheet to place it.

The Cell Library that contains the QC Title Sheet Overlay cell QCTITLE is available for consultants at:

<http://ftp.mdot.state.ms.us>  
Download a File  
Roadway\_Design  
RWD\_Files  
2010-03-V8iSS1  
POST\_Revisions  
02-QCTitle



pc: Roadway Design Division Engineer (Reese)  
Special Projects Engineer (Boteler)  
Quality Control Engineer (Reeves)  
Roadway Design Section Engineers  
Active Consultants

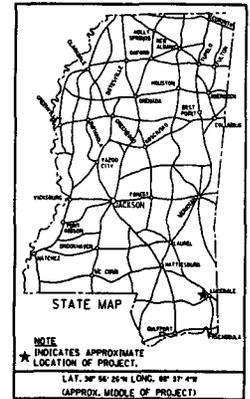
STATE OF MISSISSIPPI  
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**PLAN AND PROFILE OF PROPOSED  
STATE HIGHWAY  
FEDERAL AID PROJECT NO. BR-0198-00(001)**

BRIDGE REPLACEMENT SURVEY  
SR-198 AT BIG CREEK  
GEORGE COUNTY

FMS NO.: R.O.W 102488/201000  
CON. 102488/301000

FED. ROAD REG. NO.	STATE	PROJECT NO.	SHEET NO.
4	MISS.	BR-0198-00(001)	1



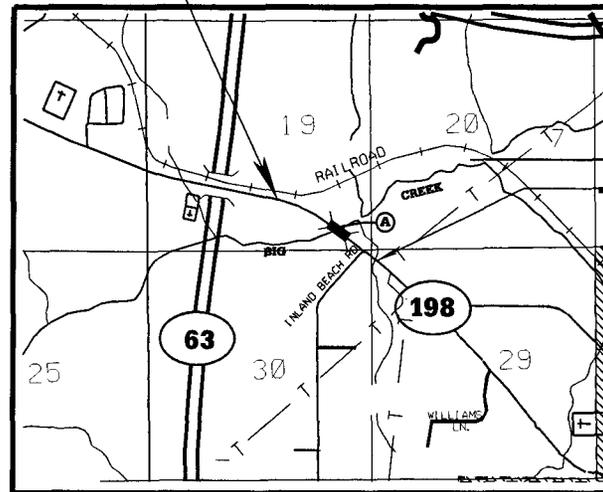
STA. 121+00 E.O.P.

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

**BRIDGE STRUCTURES REQ'D.**

- Ⓐ STA. 98+70 TO STA. 102+30  
3@40', 1@60', 1@100', 2@40', 1@40' SPANS  
LENGTH ALONG C.L. = 360 FT.  
SKEWED 30° LEFT FORWARD  
BRIDGE NO. 206.9

**BOX BRIDGES REQ'D.**



STA. 80+00.00 B.O.P.

DESIGN CONTROL

SS MPH = V (SPEED DESIGN)  
ADT (2010) = 2,000; ADT (2030) = 3,000  
DMV = 300; D = 50; T = 5%

PERMITS ACQUIRED BY MDOT

WETLANDS AND WATER PERMITS (NECESSARY FOR ULTIMATE IMPROVEMENTS (M1))

	WATERS	WETLANDS
NATIONWIDE #14	<input type="checkbox"/>	<input type="checkbox"/>
NATIONWIDE (OTHER)*	<input type="checkbox"/>	<input type="checkbox"/>
GENERAL*	<input type="checkbox"/>	<input type="checkbox"/>
INDIVIDUAL (M04)*	<input type="checkbox"/>	<input type="checkbox"/>

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

STORMWATER PERMIT

Y (DESIGNABLE) (MAY BE SUBMITTED BY CONTRACTOR) (MAY BE SUBMITTED BY CONTRACTOR) (MAY BE SUBMITTED BY CONTRACTOR)

S (DESIGNABLE) (MAY BE SUBMITTED BY CONTRACTOR) (MAY BE SUBMITTED BY CONTRACTOR) (MAY BE SUBMITTED BY CONTRACTOR)

N (NO STORMWATER PERMIT REQUIRED) (MAY BE SUBMITTED BY CONTRACTOR)

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

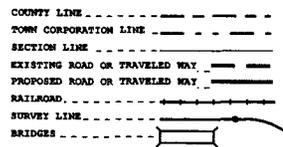
NOTES

COORDINATES DERIVED FROM GPS SURVEY TIED TO:  
NAD'83(93) MS EAST ZONE  
NORTH (FT) EAST (FT)

Control Station	396,178.128	1,019,339.250
HOGAN RESET	550,990.468	1,021,343.893

All azimuths and distances are NAD'83(93) MS East Zone GRID values  
All elevations are NAVD 88  
CONVERSION VALUES  
Ground to Grid Factor 1.000048568  
Grid to Geodetic Azimuth +00°06'24.0"

**CONVENTIONAL SYMBOLS**



**EQUATIONS**

STA. 118+67.054 BK. = STA. 118+25.453 AH. +35.599 FT

**EXCEPTIONS**

NONE

**LENGTH DATA**

LENGTH OF ROADWAY	3775.599 FT.	0.715 MI.
LENGTH OF BRIDGES	360.000 FT.	0.668 MI.
LENGTH OF PROJECT (NET)		0.783 MI.
LENGTH OF EXCEPTIONS		MI.
LENGTH OF PROJECT (GROSS)	4135.599 FT.	0.783 MI.

MINOR ARTERIAL

PRELIMINARY  
NOT FOR  
CONSTRUCTION

APPROVED:	DATE
CHIEF ENGINEER	DATE
EXECUTIVE DIRECTOR	DATE
MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
APPROVED:	DATE
DIVISION ADMINISTRATOR	DATE
FEDERAL HIGHWAY ADMINISTRATION DEPARTMENT OF TRANSPORTATION	

# QUANTITY CALCULATIONS