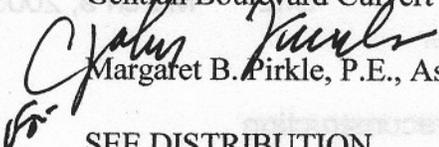


D.O.T. 66

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

**FILE** P. I. No. 0001362, Muscogee County **OFFICE** Preconstruction  
 BR-0001-00(362)  
 Gention Boulevard Culyert Replacement **DATE** April 19, 2005

**FROM**  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**TO** SEE DISTRIBUTION

**SUBJECT REVISED PROJECT CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

MBP/cj

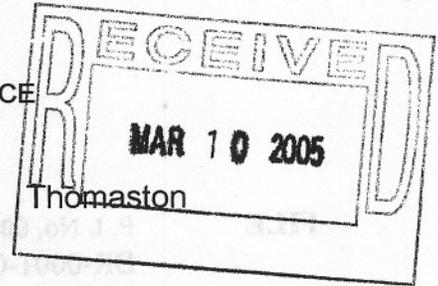
Attachment

**DISTRIBUTION:**

- David Mulling
- Harvey Keepler
- Ken Thompson
- Jamie Simpson
- Michael Henry
- Keith Golden
- Joe Palladi (file copy)
- Babs Abubakari
- Thomas Howell
- BOARD MEMBER

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

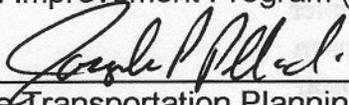


FILE BR-0001-00(362) Muscogee OFFICE Thomaston  
P. I. No. 0001362  
Gentian Blvd. Culvert Replacement  
DATE March 9, 2005  
FROM Thomas B. Howell, P.E., District Engineer  
TO Meg Pirkle, P.E., Assistant Director of Preconstruction  
SUBJECT Revised Project Concept Report

Attached is the original copy of the revised Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

The posted speed limit on Gentian Blvd. has been changed from 50 mph to 35 mph. The proposed design speed for Gentian Blvd. is 35 mph to match the posted speed limit.

The revised concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Program (RTP) and/or the State Transportation Improvement Program (STIP).

Date 4/1/05  
  
State Transportation Planning Administrator

- DBM:WJR:LTR  
C: David Mulling, Project Review Engineer  
Harvey Keeper, State Environmental/Location Engineer  
Phillip Allen, State Traffic and Safety Design Engineer  
Joe Palladi, State Transportation Planning Administrator  
Jamie Simpson, State Transportation Programming Engineer  
Paul Liles, State Bridge Design Engineer  
Debra Benton, District Environmentalist  
Ethel White, Support Assistant

# REVISED PROJECT CONCEPT REPORT

**Need and Purpose:** *The proposed project BR 0001-00(362) located in the eastern part of Muscogee County and inside the city limits of Columbus, consist of replacing approximately seventy five feet of triple line ninety inch corrugated metal pipe (under Gentian Blvd.) that connects to an existing triple nine by nine concrete box culvert under S R 85/ US 27 Alt. at Lindsey Creek.*

*The existing ninety inch corrugated metal pipe portion of this project, under Gentian Blvd. was constructed in 1956. It has been identified because of the deterioration to the corrugated metal pipe portion of this drainage system and because of erosion at the outlet end. Continued deterioration to this corrugated metal pipe could result in failure of the present system possibly undermining the support for the above roadway as well as possible flooding during heavy rain conditions.*

*The purpose of the proposed project is to correct the problems associated with the normal deterioration of a corrugated metal drainage system. The proposed project would reconstruct the existing corrugated metal portion of the system with a triple nine by nine concrete box culvert, wingwalls and parapet with the placement of stone rip rap to improve the erosion problem at the outlet.*

*Gentian Blvd. is in the eastern part of Muscogee Co. and is functionally classified as an Urban Minor Collector. It is used by school buses, it is not a part of National Highway System and it is not in the Georgia Statewide Bicycle Network. The twenty four hour truck volume along this section of Gentian is three percent and design year traffic will be 38,000 vpd. (2027)*

**Project location:** *The proposed project would replace the corrugated metal portion of the existing culvert under SR 85 / US 27 Alt and Gentian Blvd. at Lindsey Creek in Muscogee Co. The new construction would be a triple nine by nine concrete box culvert (matching the upstream section) with wingwalls and parapet and stone dumped rip rap at the outlet end. This project would be constructed under traffic without major disruptions, and will eliminate possible failure of the drainage system caused by continued deterioration of the existing pipe system.*

**Description of the approved concept:** *The proposed project would replace the corrugated metal portion of the existing culvert under SR 85 / US 27 Alt and Gentian Blvd. at Lindsey Creek in Muscogee Co. The new construction would be a triple nine by nine concrete box culvert (matching the upstream section) with wingwalls and parapet and stone dumped rip rap at the outlet end. This project would be constructed under traffic without major disruptions, and will eliminate possible failure of the drainage system caused by continued deterioration of the existing pipe system.*

**PDP Classification:** Major \_\_\_\_\_ Minor X

**Federal Oversight:** Full Oversight ( ), Exempt (X), State Funded( ), or Other ( )

**Functional Classification:** Urban Collector

**U. S. Route Number(s):** N/A

**State Route Number(s):** N/A

**Traffic (AADT) as shown in the approved concept:**

Current Year: (2008) 20,000

Design Year: (2028) 27,000

**Proposed features to be revised:** *The proposed features to be revised from the approved Concept Report are the existing posted speed limit on Gentian Blvd. as 50 mph and the proposed design speed of Gentian Blvd as 50 mph.*

**Describe the revised feature(s) to be approved:** *The revised features to be approved are the posted speed limit on Gentian Blvd. as 35 mph and the proposed design speed for Gentian Blvd. as 35 mph.*

**Programmed/Schedule:**

P.E. 2002 R/W: 2005 Construction: 2006

**Is the project located in a Non-attainment area?** No

**Recommendation:** Recommend that the proposed revision to the concept be approved for implementation.

**Attachments:**

1. Cost Estimates:
  - a. Construction including E&C,
  - b. Right of Way, and
  - c. Utilities
2. Sketch location map
3. Typical sections

**Exempt projects**

Concur: Buddy [Signature]  
Director of Preconstruction

Approve: [Signature]  
Chief Engineer

FDP Classification: Major X  
 Federal Oversight: Full Oversight (X) Exempt ( ) State Funded ( ) or Other ( )  
 Functional Classification: Urban Collector  
 U.S. Route Number(s): N/A  
 State Route Number(s): N/A  
 Traffic (AADT) as shown in the approved concept:  
 Current Year: (2002) 20,000  
 Design Year: (2028) 27,000

## PRELIMINARY COST ESTIMATE

PREPARED BY:

PROJECT LENGTH:

ESTIMATED LETTING DATE:

PROGRAMMING PROCESS  CONCEPT DEVELOPMENT  DURING PROJECT DEV.

PROJECT COST	
<b>A. RIGHT-TO-WAY:</b>	
1. PROPERTY (LAND & EASEMENT .25 ac	\$ 10,000.
2. DISPLACEMENTS: RES: 0, BUS: 0, M.H.: 0	\$
3. OTHER COST (ADM./COST, INFLATION)	\$ 10,000
SUBTOTAL:A	\$ 20,000.00
<b>B. REIMBURSABLE UTILITIES:</b>	
1. RAILROAD	\$
2. TRANSMISSION LINES	\$
3. SERVICES	\$
SUBTOTAL:B	\$ 0.00
<b>C. CONSTRUCTION:</b>	
1. MAJOR STRUCTURES (triple 9'x9' conc box clvt)	\$ 155,500
a. OVERPASSES	\$
b. OTHER	\$
SUBTOTAL:C-1	\$ 155,500.00
2. GRADING AND DRAINAGE:	
a. EARTHWORK (2000 cy @ \$5.00/cy)	\$ 10,000
b. DRAINAGE:	
1) Cross Drain Pipe (LUMP)	\$
2) Curb and Gutter ( 100 ft @ \$20.00/ft)	\$ 2,000
3) Longitudinal System(include catch basins)(1 cb)	\$ 1,500
SUBTOTAL:C-2	\$ 13,500.00
3. BASE AND PAVING:	
a. AGGREGATE BASE ( 60 Ton @ \$20.00/ Ton)	\$ 1200
b. ASPHALT PAVING:	
Surface ( 11 Ton @ \$55.00/ Ton)	\$ 605

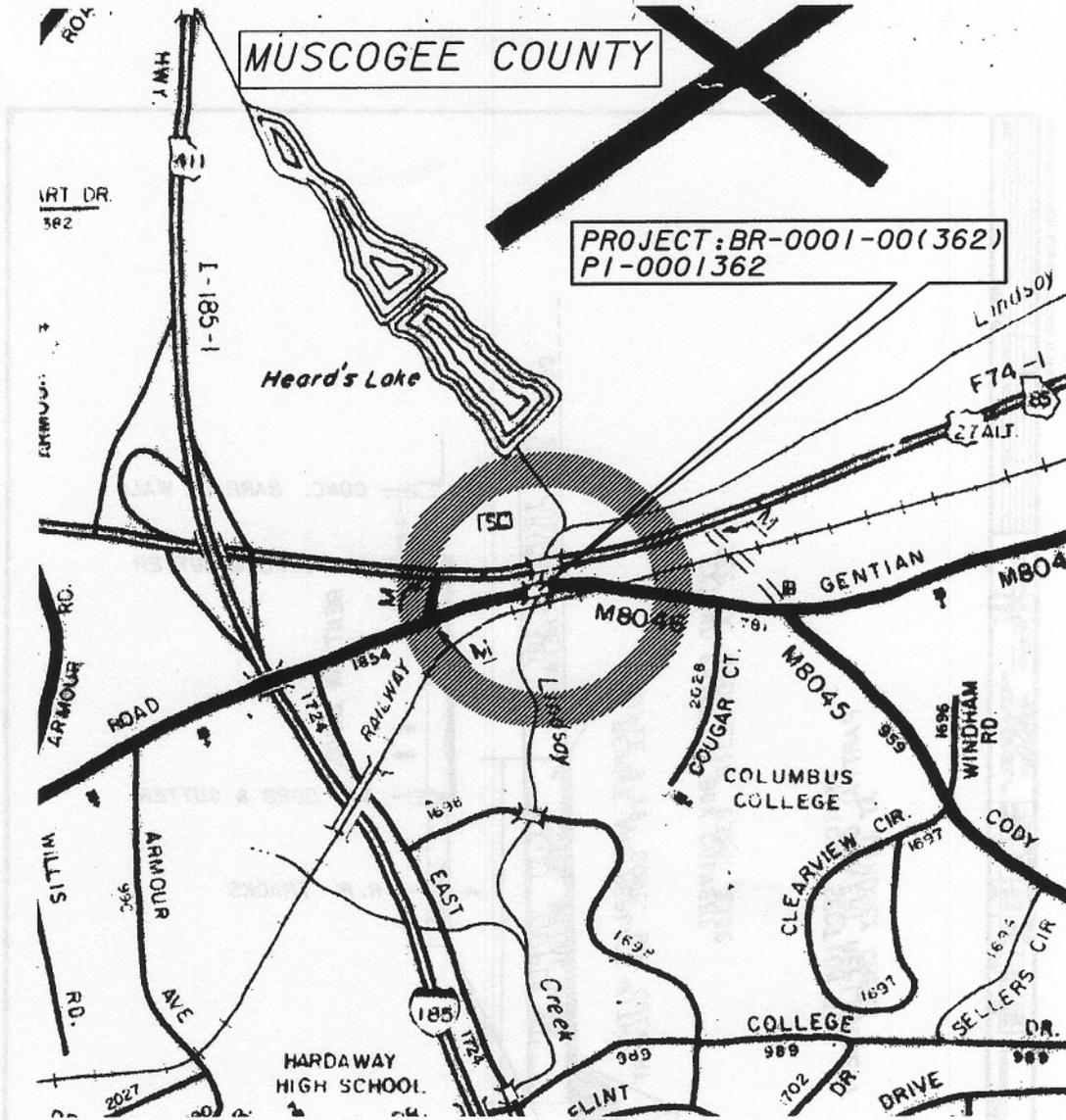
PROJECT COST		
Binder ( 15 Ton @ \$55.00/ Ton)	\$ 825	
Base ( 37 Ton @ \$55.00/ Ton)	\$ 2,035	
SUBTOTAL:C-3.b		\$ 4665.00
c. CONCRETE PAVING		\$
d. OTHER (Bituminous Tack: Gal @ \$0.25/ Gal)	\$ 100.00	
SUBTOTAL:C-3		\$ 4,790.00
4. LUMP ITEMS:		
a. GRASSING ( .25 ac @ \$1,600/ ac)	\$ 400	
b. CLEARING AND GRUBBING ( .25 ac @ \$4,000/ ac)(incl. pipe removal & track work)	\$ 20,000	
c. LANDSCAPING		\$
d. EROSION CONTROL (LUMP)(includes rip rap w/ filter fabric) (250SY @\$40)	\$ 10,000	
e. TRAFFIC CONTROL		\$ 50,000
SUBTOTAL:C-4		\$ 80,400.00
5. MISCELLANEOUS:		
a. LIGHTING ( )		\$
b. SIGNING - MARKING ( 50 ft <sup>2</sup> signing material @ \$21.00/ ft <sup>2</sup> )		\$ 1,000
c. GUARDRAIL - ( ft @ \$10.00/ ft)		\$
d. SIDEWALK ( yd <sup>2</sup> @ \$20.00/ yd <sup>2</sup> )		\$
SUBTOTAL:C-5		\$ 1,000.00
6. SPECIAL FEATURES: NONE		
SUBTOTAL:C-6		\$

ESTIMATE SUMMARY	
A. RIGHT-OF-WAY ( )	\$ 20,000.00
B. REIMBURSABLE UTILITIES	\$ 0.00
C. CONSTRUCTION	
1. MAJOR STRUCTURES	\$ 155,500.00

ESTIMATE SUMMARY		
2. GRADING AND DRAINAGE		\$ 13,500.00
3. BASE AND PAVING		\$ 3,175.00
4. LUMP ITEMS		\$ 80,400.00
5. MISCELLANEOUS		\$ 1,000.00
6. SPECIAL FEATURES		\$ 0.00
SUBTOTAL CONSTRUCTION COST		\$ 254,750.00
E. & C. (10%)		\$ 25,475.00
INFLATION (5% PER YEAR)		\$ 42,034.00
NUMBER OF YEARS	1	
TOTAL CONSTRUCTION COST		\$ 322,259.00
GRAND TOTAL PROJECT COST		\$ 342,259.00

This project is 100 percent in congressional District 3.  
This project is 100 percent in Muscogee County.

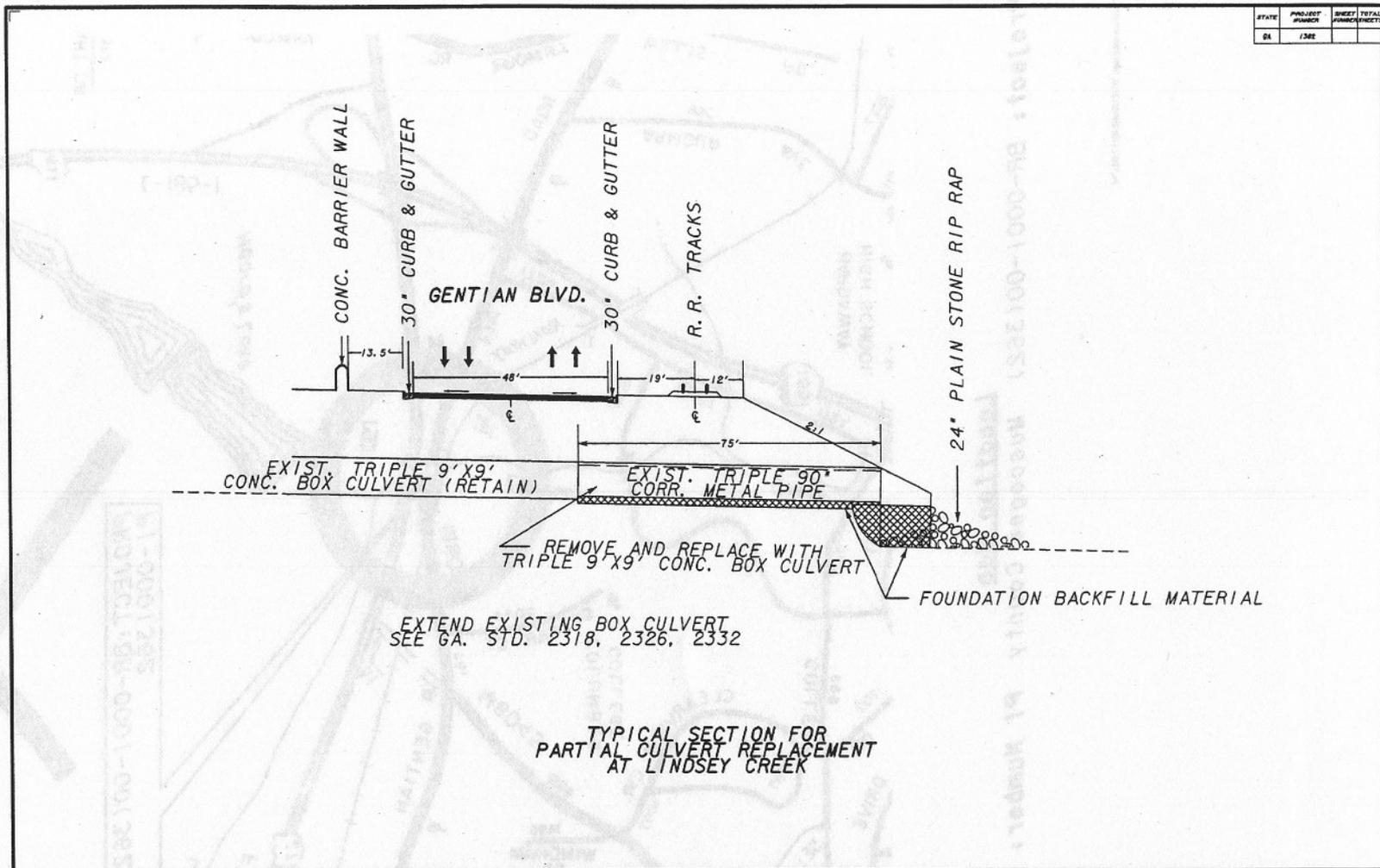
ESTIMATE SUMMARY		
1. MAJOR STRUCTURES		\$ 122,259.00
2. CONSTRUCTION		\$ 0.00
3. REIMBURSABLE UTILITIES		\$ 0.00
4. RIGHT-OF-WAY (1)		\$ 20,000.00



**Location Map**

**Project: BR-0001-00(362) Muscogee County PI Number: 0001362**

STATE	PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
GA	1382		



REVISIONS				
DATE	BY	DESCRIPTION	DATE	BY

**W**  
WALVERTON & ASSOCIATES, INC.  
WALVERTON & ASSOCIATES  
1100 1st Street  
Norcross, GA 30093  
770-441-1888

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
01-02	SW		01-02	SW	
01-02	JW		01-02	JW	

GEORGIA  
DEPARTMENT OF TRANSPORTATION

GENTIAN BOULEVARD AT LINDSEY CREEK  
PARTIAL CULVERT REPLACEMENT