ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE	STP-3201(8)/BHMLB-3201(11) Bibb County P. I. Nos. 351100/351105	**OFFICE**	Preconstruction
		DATE	July 1, 1997
FROM	C. Wayne Hutto, Assistant Director of Preconstruction		
TO	SEE DISTRIBUTION		

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

CWH/cj

Attachment

DISTRIBUTION:

Walker Scott
Bobby Mustin
David Studstill (ATTN: Harvey Keepler)
Jerry Hobbs
Herman Griffin
Marta Rosen (ATTN: Michael Henry)
Marion Waters
Toni Dunagan
Paul Liles
Jim Hitt (Traffic Ops)
Joe Palladi
Joe Street

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-3201(8)/BHMLB-3201(11) Bibb County
P.I. Nos. 351100/351105

OFFICE Preconstruction

DATE June 11, 1997

FROM Walker W. Scott, Jr., P.E., Director of Preconstruction

TO Wayne Shackelford, Commissioner

SUBJECT **PROJECT CONCEPT REPORT**

These combined projects consist of the widening, reconstruction and relocation of Log Cabin Drive/CR 88 from Mercer University Drive/SR 74 to Hollingsworth Road/CR 87 for a total of 1.57km. The existing Log Cabin Drive is a rural two lane facility with 6.7m pavement width, no shoulder and drainage ditches. The existing major structure is a 42.7m x 7.5m bridge over Rocky Creek with a sufficiency rating of 54.7. This project in conjunction with projects STP-3201(9) Bibb, STP-3214(3) Bibb, STP-3201(10) Bibb, and STP-3213(4) Bibb, will provide a multilane north-south corridor in west Macon that will connect north Macon to the shopping areas around Macon Mall. The base year traffic (2001) is 19,160 VPD and the design year traffic (2021) is 28,580 VPD. The posted speed is 60km/h and the design speed is 70km/h.

Project STP-3201(8) will construct between the above termini, four, 3.6m lanes with a 6.1m raised concrete median and 1.52m contiguous sidewalk on both sides. A portion of the proposed alignment from 50.0m north of Meadowbrook Drive northward to the end of the project will be on new location to reconstruct the vertical alignment near Rocky Creek. This project includes improvements to Log Cabin Drive from Northwest Parkway to 300.0m east of Northwest Parkway and the realignment of the Hollingsworth Road approach to Log Cabin Drive. Traffic will be maintained during construction.

Project BHMLB-3201(11) will construct a new bridge over Rocky Creek just south of the existing structure. Project STP-3201(8) proposed to relocate Log Cabin Drive just south of its present location near Rocky Creek.

Environmental concerns include requiring a COE 404 permit; an Environmental Assessment will be prepared; possible historic bridge over Rocky Creek; 16 displacements -- 1 commercial, 15 residential; a public hearing is required; time saving procedures are not appropriate.

STP-3201(8)/BHMLB-3201(11) Bibb
June 11, 1997

The estimated costs for this project are:

STP-3201(8) Bibb

	PROPOSED	APPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	$3,682,000	$1,845,000	2001	00-11
Right-of-Way & Utilities*	Local	Local		

BHMLB-3201(11) Bibb

	PROPOSED	APPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	$1,549,000	$421,000	2001	00-11
Right-of-Way & Utilities*	Local	Local		

*Bibb County signed contract to be responsible for preliminary engineering, right-of-way costs, and utility relocation costs.

I recommend these project concepts be approved.

WWS:JDQ/cj

Attachment

CONCUR _____
Frank L. Danchetz, P.E., Chief Engineer

APPROVE _____
Wayne Shackelford, Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

RECEIVED
MAY 1 1997
PRECONSTRUCTION

FILE: STP-3201(8) BIBB, P.I.# 351100
BHMLB-3201(11) BIBB, P.I.# 351105

OFFICE: Atlanta, Georgia

DATE: May 14, 1997

FROM: Bob Mustin, Project Review Engineer DTM

TO: C. Wayne Hutto, Assistant Director of Preconstruction

SUBJECT: PROJECT CONCEPT REPORT

We have reviewed the concept report submitted May 2, 1997 by the letter from Joseph P. Palladi dated April 22, 1997 and have the following comment:

1. The cost estimate shows the unit cost for Borrow Excavation as $3.00 and the unit cost for Unclassified Excavation as $4.60. Unless there is a substantial amount of rock excavation, unclassified excavation cost less than borrow excavation, especially in the Macon area, where borrow areas are scarce. The unit costs may be reversed for these items.

The estimated costs for the project are as follows:

	STP-3201(8)	BHMLB-3201(11)
Construction	$ 2,891,000	$ 1,216,000
Inflation	$ 456,000	$ 192,000
E & C	$ 335,000	$ 141,000
Right of Way	$? (LGPA)	$? (LGPA)
Reimbursable Utilities	$? (LGPA)	$? (LGPA)

DTM

c: Joe Palladi - Attention: Angela Alexander

Department of Transportation

State of Georgia

PROJECT CONCEPT REPORT

Log Cabin Drive (CR 88) Reconstruction
from Mercer University Drive (SR 74) to Hollingsworth Road (CR 87)

Project Number: STP-3201(8), BHMLB-3201(11)
County: Bibb
P.I. Number: 351100, 351105
U.S. Route Number: None
State Route Number: None
Date of Report:3/17/97

Project Map Enclosed

RECOMMENDATION FOR APPROVAL:

5/1/97 — Joseph Pollard
DATE — STATE URBAN DESIGN ENGINEER

DATE — STATE ENVIRONMENT/LOCATION ENGINEER

DATE — STATE TRAFFIC OPERATIONS ENGINEER

DATE — DISTRICT ENGINEER

DATE — PROJECT REVIEW ENGINEER

DATE — STATE BRIDGE & STRUCTURAL DESIGN ENGINEER

PROJECT CONCEPT REPORT

DATE: May 1, 1997

PROJECT NUMBER: STP-3201(8), BHMLB-3201(11)
COUNTY: Bibb

DESCRIPTION: Log Cabin Drive (CR 88) from Mercer University Drive (SR 74) to Hollingsworth Road (CR 87) widening from 2-lane rural section to 4-lane divided with raised concrete median urban section with sidewalks including replacement of bridge over Rocky Creek; the project will be on new location from 50 m north of Meadowbrook Drive northward to the end of the project so that vertical alignment changes can be made in the vicinity of the bridge over Rocky Creek and so that the bridge can be replaced; project also includes 300 m of Log Cabin Drive east of Northwest Parkway and the realignment of the Hollingsworth Road at Log Cabin Drive intersection

LENGTH: 1.57 km

P.I. NO.: 351100, 351105
U.S. ROUTE NO.: None
STATE RT. NO.: None

LOCATION: Log Cabin Drive (CR 88) from Mercer University Drive (SR 74) to 65 m north of Hollingsworth Road; Log Cabin Drive from Northwest Parkway to 300 m east of Northwest Parkway; Hollingsworth Road from Log Cabin Drive to 150 m north of Log Cabin Drive

MILE POINT REFERENCE: BEGIN-0.00 END-0.90

TRAFFIC (TWO-WAY AADT):
YEAR-2001 AADT-19160 YEAR-2021 AADT-28580

PDP CLASSIFICATION	NON-CA	CA	EX	SF	FUNCTION CLASSIFICATION
Major	()	()	(X)	()	Urban Minor Arterial

EXISTING DESIGN

TYPICAL SECTION: two-lane rural section with 6.7 m of asphaltic concrete pavement, 0.6 m shoulders and ditches

POSTED SPEED	MIN. EXISTING RADIUS OF CURVE	MAX. EXISTING GRADE
60 km/h	133 m	10%

EXISTING MAJOR STRUCTURES: Existing two lane bridge over Rocky Creek.

FEATURES INTERSECTED: Existing 2-lane bridge over Rocky Creek

S.RTG: 54.7 **LENGTH: 42.7 m** **WIDTH: 7.5 m**

PROJECT NEED & PURPOSE: See attached

PROPOSED PROJECT CONCEPT

PROPOSED TYPICAL SECTION: four-lane divided urban section with a 6 m raised concrete median, four 3.6 m through lanes, 0.75 m curb and gutter and 1.525 m contiguous sidewalk on both sides of the road; proposed shoulder 3.6 m

RIGHT-OF-WAY WIDTH:

1. **Mercer University Drive to Meadowbrook Drive-30 m**
2. **Meadowbrook Drive to Hollingsworth Road (new location adjacent to existing road)-60 m**
3. **New location section Hollingsworth Road north to end of project-38.1 m**

DESIGN SPEED: 70 km/h

MIN. RADIUS OF CURVE:	**ALLOWABLE: 215 m**	**PROPOSED: 215 m**
MAX. GRADE:	**ALLOWABLE: 8.5%**	**PROPOSED: less than 8.5%**

TYPE ACCESS: Controlled by permit

TRAFFIC CONTROL DURING CONSTRUCTION: Traffic to be maintained during construction

PROPOSED STRUCTURES:

1. **The proposed 91 m x 27 m bridge over Rocky Creek will accommodate the proposed typical section and span the wetlands along Rocky Creek. The existing bridge will be removed.**
2. **An estimated 400 m retaining walls will be required to minimize right-of-way impacts and avoid additional displacements.**

DESIGN EXCEPTIONS TO BE REQUIRED:

CONTROLLING CRITERIA	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT	( )	( )	(X)
ROADWAY WIDTH	( )	( )	(X)
SHOULDER WIDTH	( )	( )	(X)
VERTICAL GRADES	( )	( )	(X)
CROSS SLOPES	( )	( )	(X)
STOPPING SIGHT DISTANCE	( )	( )	(X)
SUPERELEVATION RATES	( )	( )	(X)
HORIZONTAL CLEARANCE	( )	( )	(X)
SPEED DESIGN	( )	( )	(X)
VERTICAL CLEARANCE	( )	( )	(X)
BRIDGE WIDTH	( )	( )	(X)
BRIDGE STRUCTURAL CAPACITY	( )	( )	(X)

NUMBER OF PARCELS: 113

DISPLACEMENTS: 1 Commercial, 15 Residential anticipated

LEVEL OF ENVIRONMENTAL ANALYSIS: Categorical Exclusion

PUBLIC INVOLVEMENT: Public Meeting to be held

PERMITS REQUIRED (COE 404, WATER QUALITY, TVA): COE 404

TIME SAVINGS PROCEDURES APPROPRIATE: ( ) YES (X) NO

LOCAL GOVERNMENT COMMITMENTS: Local government to fund design, right-of-way acquisition and utility relocation

OTHER PROJECTS IN THE AREA:

1. STP-3213(4), P.I. # 35140-Northwest Parkway from Log Cabin Drive (CR 88) to Forsyth Road (US 41, SR 19) on new location and Park Street

2. STP-3201(9), P.I. # 351110-Log Cabin Drive (CS 1580) from Eisenhower Parkway (US 80, SR 22) to Mercer University Drive (SR 74)

3. STP-3207(4), P.I. # 350960-Mercer University Drive (SR 74) from west of I-475 to east of Log Cabin Drive (CR 88)

4. Macon-Bibb County Road Improvement Program Project No. 25-Log Cabin Drive (CS 723) from Hollingsworth Road (CR 87) to Napier Avenue (CS 721)

CONCEPT TEAM MEETING DATE: March 5, 1997

PROBABLE LOCATIONS OF USTS: One site identified

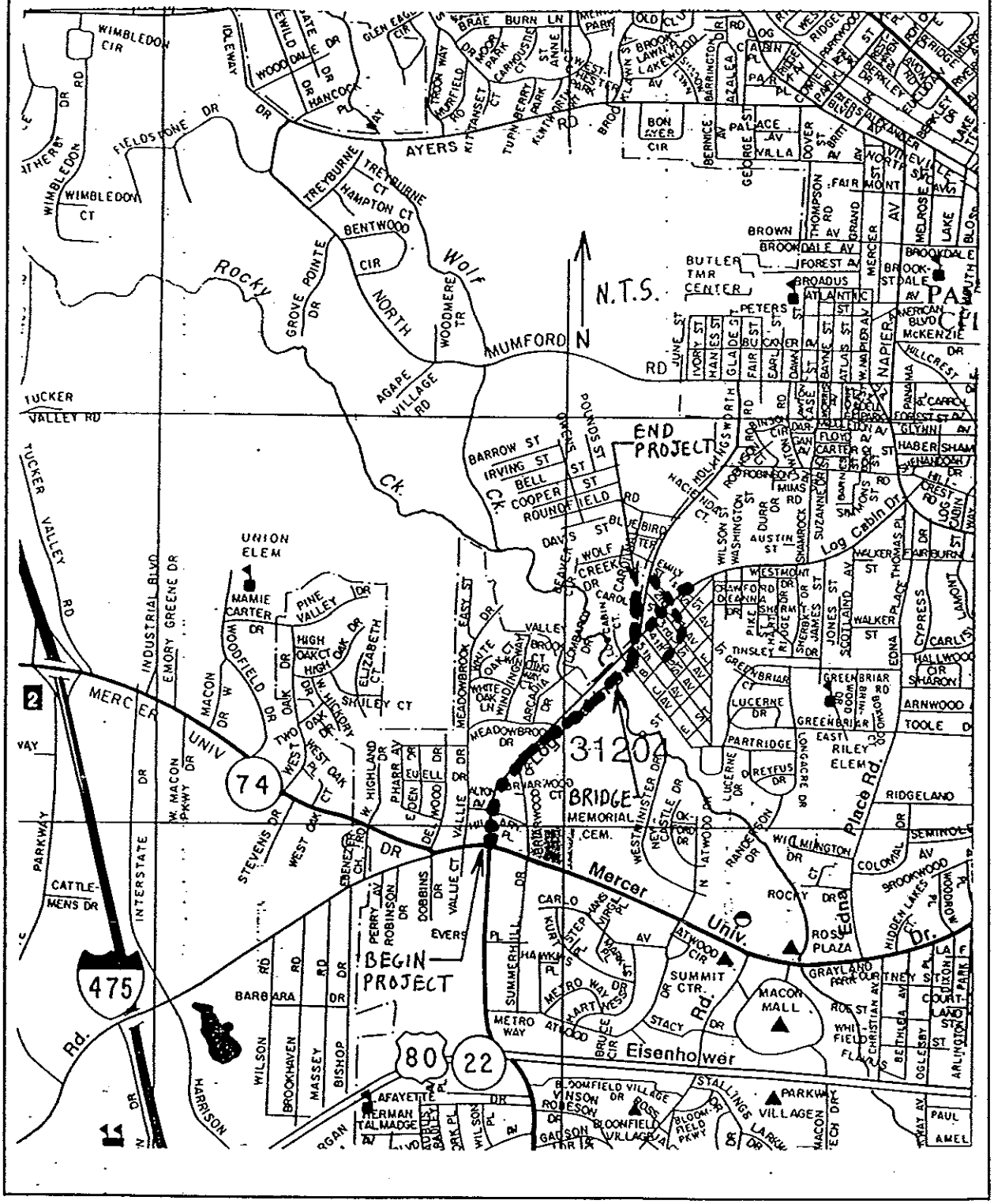
PROBABLE LOCATIONS OF HAZARDOUS WASTE: None known

OTHER ALTERNATES CONSIDERED: No-Build

COMMENTS:

ATTACHMENTS: PROJECT LOCATION MAP, COST ESTIMATE, NEED & PURPOSE STATEMENT, BRIDGE INVENTORY REPORT, TYPICAL SECTION, ACCIDENT SUMMARY, TRAFFIC FLOW DIAGRAMS, CONCEPT MEETING MINUTES.

PROJECT LOCATION MAP
PROJECT # STP-3201(8), BHMLB-3201(11), P.I. # 351100, 351105 BIBB COUNTY
LOG CABIN DR FROM MERCER UNIVERSITY DR (SR 74) TO HOLLINGSWORTH RD



PRELIMINARY COST ESTIMATE
PROJECT # STP-3201(8), P.I. # 351100
MACON-BIBB COUNTY ROAD IMPROVEMENT PROGRAM PROJECT # 11
Log Cabin Dr (CR 88) Reconstruction
from Mercer University Dr (SR 74) to Hollingsworth Rd (CR 87)

DATE: 12/20/96

PREPARED BY: Moreland Altobelli Associates Inc

PROJECT DESCRIPTION/CONCEPT: Widen Log Cabin Dr (from Mercer Univ Dr to 65 m north of Hollingsworth Rd) from 2 to 4 lanes divided urban section w/ 6 m raised conc median & sidewalks; 50 m north of Meadowbrook Dr north to end of proj on new location

TRAFFIC (AADT): Year 2001-19160, Design Year 2021-28580

EXISTING ROADWAY: 2 lanes undivided rural section

( ) PROGRAMMING PROCESS
(X) CONCEPT DEVELOPMENT
( ) DURING PROJECT DEVELOPMENT

PROJECT COSTS (METRIC UNITS)

A. RIGHT-OF-WAY			BY LOCAL GOVT
		SUBTOTAL	BY LOCAL GOVT
B. REIMBURSABLE UTILITIES			BY LOCAL GOVT
		SUBTOTAL	BY LOCAL GOVT
C. CLEARING & GRUBBING			
CL & GRUB LUMP SUM	14 ha @	$20,000.00	$280,000
		SUBTOTAL	$280,000
D. EARTHWORK			
BORROW INCL HAUL	60000 m^3 @	$3.00	$180,000
UNCL EXCAVATION	20000 m^3 @	$4.60	$92,000
		SUBTOTAL	$272,000

PRELIMINARY COST ESTIMATE
PROJECT # STP-3201(8), P.I. # 351100
MACON-BIBB COUNTY ROAD IMPROVEMENT PROGRAM PROJECT # 11
Log Cabin Dr (CR 88) Reconstruction
from Mercer University Dr (SR 74) to Hollingsworth Rd (CR 87)

E. BASE & PAVING

GRADED AGR BASE	16000 Mg @	$16.50	$264,000
ASPH CONC 12.5 mm	2900 Mg @	$35.50	$102,950
ASPH CONC 19 mm	5400 Mg @	$35.70	$192,780
ASPH CONC 25 mm	7700 Mg @	$34.40	$264,880
LEVELING	600 Mg @	$37.40	$22,440
TACK COAT	20000 L @	$0.25	$5,000
		SUBTOTAL	$852,050

F. DRAINAGE

DRAINAGE LUMP SUM	1.58 km @	$250,000.00	$395,000
		SUBTOTAL	$395,000

G. CONCRETE WORK

APPROACH SLABS	485 m^2 @	$100.00	$48,500
CURB & GUTTER, TP 7	2195 m @	$30.00	$65,850
CURB & GUTTER, TP 2	2300 m @	$30.00	$69,000
VALLEY GUTTER	300 m^2 @	$37.40	$11,220
SIDEWALK	3745 m^2 @	$22.00	$82,390
MEDIAN PAVING	9365 m^2 @	$25.30	$236,935
DITCH PAVING	m^2 @		$0
		SUBTOTAL	$513,895

H. TRAFFIC CONTROL

TRAF CONT LUMP SUM	1.58 km @	$70,000.00	$110,600
		SUBTOTAL	$110,600

I. EROSION CONTROL

EROS CONT LUMP SUM	1.58 km @	$30,000.00	$47,400
		SUBTOTAL	$47,400

PRELIMINARY COST ESTIMATE
PROJECT # STP-3201(8), P.I. # 351100
MACON-BIBB COUNTY ROAD IMPROVEMENT PROGRAM PROJECT # 11
Log Cabin Dr (CR 88) Reconstruction
from Mercer University Dr (SR 74) to Hollingsworth Rd (CR 87)

J. GUARDRAIL			
W-BEAM RAIL	430 m @	$38.00	$16,340
T-BEAM RAIL	30 m @	$133.00	$3,990
TP 1 ANCHORS	2 ea @	$444.00	$888
TP 11 ANCHORS	2 ea @	$1,335.00	$2,670
		SUBTOTAL	$23,888
K. SIGNING, STRIPING, SIGNALS, LIGHTING			
SIGNING & MARKING	1.58 km @	$16,750.00	$26,465
TRAFFIC SIGNALS	2 ea @	$50,000.00	$100,000
LIGHTING LUMP SUM	ea @		$0
		SUBTOTAL	$126,465
L. GRASSING/LANDSCAPING			
GRASSING	1.58 km @	$30,000.00	$47,400
		SUBTOTAL	$47,400
M. MISCELLANEOUS			
FIELD ENG OFFICE	1 ea @	$20,000.00	$20,000
R/W MARKERS	45 ea @	$56.00	$2,520
		SUBTOTAL	$22,520
N. MAJOR STRUCTURES			
BRIDGES	m^2 @		$0
RETAINING WALLS	400 m @	$500.00	$200,000
BOX CULV CONC	m^3 @		$0
BOX CULVERT STEEL	kg @		$0
		SUBTOTAL	$200,000

PRELIMINARY COST ESTIMATE
PROJECT # STP-3201(8), P.I. # 351100
MACON-BIBB COUNTY ROAD IMPROVEMENT PROGRAM PROJECT # 11
Log Cabin Dr (CR 88) Reconstruction
from Mercer University Dr (SR 74) to Hollingsworth Rd (CR 87)

ESTIMATE SUMMARY

A. RIGHT-OF-WAY	BY LOCAL GOVT
B. REIMBURSABLE UTILITIES	BY LOCAL GOVT

CONSTRUCTION COST SUMMARY

C. CLEARING & GRUBBING	$280,000
D. EARTHWORK	$272,000
E. BASE & PAVING	$852,050
F. DRAINAGE	$395,000
G. CONCRETE WORK	$513,895
H. TRAFFIC CONTROL	$110,600
I. TEMP. EROSION CONTROL	$47,400
J. GUARDRAIL	$23,888
K. SIGNING, STRIPING, SIGNALS, LIGHTING	$126,465
L. GRASSING/LANDSCAPING	$47,400
M. MISCELLANEOUS	$22,520
SUBTOTAL OF ROADWAY ITEMS	$2,691,218
N. MAJOR STRUCTURES	$200,000
TOTAL CONSTRUCTION ESTIMATE	$2,891,218
3 YEARS OF INFLATION AT 5%	$455,728
10% E & C	$334,695
TOTAL CONSTRUCTION ESTIMATE	$3,681,640

PRELIMINARY COST ESTIMATE
PROJECT # BHMLB-3201(11), P.I. # 351105
MACON-BIBB COUNTY ROAD IMPROVEMENT PROGRAM PROJECT # 11
Log Cabin Dr (CR 88) Bridge Over Rocky Creek West of SR 74

DATE: 12/20/96

PREPARED BY: Moreland Altobelli Associates Inc

PROJECT DESCRIPTION/CONCEPT: Construct new 91 m x 27 m bridge over Rocky Creek on new location & remove existing bridge

TRAFFIC (AADT): Year 2001-19160, Design Year 2021-28580

EXISTING ROADWAY: 2 lanes undivided rural section

( ) PROGRAMMING PROCESS
(X) CONCEPT DEVELOPMENT
( ) DURING PROJECT DEVELOPMENT

PROJECT COSTS (METRIC UNITS)

A. MAJOR STRUCTURES

BRIDGE	2457 m ² @	$485.00	$1,191,645
REMOVE BRIDGE	321 m ² @	$75.00	$24,075
TOTAL CONSTRUCTION ESTIMATE			$1,215,720
3 YEARS OF INFLATION AT		5%	$191,628
10% E & C			$140,735
TOTAL CONSTRUCTION ESTIMATE			$1,548,083

NEED AND PURPOSE STATEMENT
PROJECT # STP-3201(8), BHMLB-3201(11), P.I. # 351100, 351105 BIBB COUNTY
LOG CABIN DRIVE (CR 88) RECONSTRUCTION
FROM MERCER UNIVERSITY DR (SR 74) TO HOLLINGSWORTH RD (CR 87)

The proposed project will widen Log Cabin Drive (CR 88) from Mercer University Drive (SR 74) to 65 m north of Hollingsworth Road (CR 87). The section from 50 m north of Meadowbrook Drive northward to the end of the project will be on new location so that vertical alignment changes can be made in the vicinity of Rocky Creek and the bridge over Rocky Creek (which has a sufficiency rating of 54.7) can be replaced. This project includes improvements to Log Cabin Drive from Northwest Parkway to 300 m east of Northwest Parkway and the realignment of the Hollingsworth Road approach to Log Cabin Drive. The improvements will include the installation of curb and gutter, sidewalks and drainage structures. The existing Log Cabin Drive is a rural two-lane facility with 6.7 m pavement width, no shoulder and drainage ditches. The proposed improvements consist of upgrading the existing roadway to a four-lane divided urban section with a 6 m raised concrete median.

Log Cabin Drive provides a connection from north Macon south to Mercer University Drive, Eisenhower Parkway and Macon Mall. Other Macon-Bibb County Road Improvement Program projects will extend the new location portion of this project north to the intersection of Napier Avenue at Park Street, widen Park Street from Napier Avenue to Forsyth Road (US 41, SR 19)/Forest Hill Road and widen Forest Hill Road from Forsyth Road/Park Street to Northside Drive. The widening provided by this project will tie into the multi-lane widening of Log Cabin Drive and Bloomfield Road from Mercer University Drive to Rocky Creek Road. The sum of these projects will provide a multi-lane north-south corridor in west Macon that will connect north Macon to the shopping areas around Macon Mall. In addition, they will provide a connection from north Macon through Bloomfield Drive and Rocky Creek Road to Pio Nono Avenue, I-75 and Warner Robins.

In 1995, the traffic count on this project was 10822 vehicles per day, which causes considerable congestion on the existing two-lane road. The design year projection of 28580 vehicles per day is sufficient to justify the construction of the proposed project. In addition, this project serves residential areas that connect to commercial areas, and the proposed sidewalks will increase safety for pedestrians in the area.

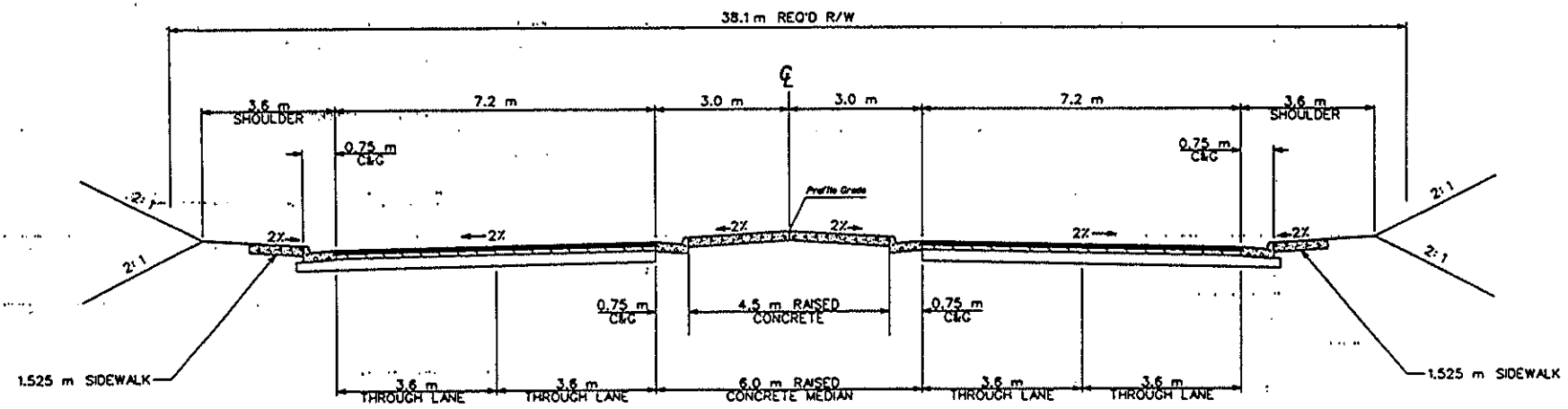
This proposed project will tie into several other projects in this area of Macon. The north end of this project will match the begin point of the four-lane divided urban section of Project STP-3213(4), P.I. No. 351140-Northwest Parkway on Hollingsworth Road and Park Street from Log Cabin Drive to Forsyth Road. These projects will continue further north with the following multi-lane projects: STP-3213(1), P.I. No. 350520-Forest Hill Road from Forsyth Road to Wimbish Road and STP-3213(3), P.I. No. 351130-Forest Hill Road from Wimbish Road to Northside Drive. The south end of this project will match the five-lane urban section of Project STP-3201(8), P.I. No. 351110-Log Cabin Drive from Eisenhower Parkway to Mercer University Drive. These projects will continue

further south with project STP-3213(10), P.I. No. 351120-Bloomfield Road/Log Cabin Drive from Rocky Creek Road to Eisenhower Parkway. In addition, this project intersects project STP-3207(4), P.I. No. 350960-SR 74 from west of I-475 to east of Log Cabin Drive/SR 74 Spur. The east end point of the improvements to Log Cabin Drive east of Northwest Parkway will match the west end point of Macon-Bibb County Road Improvement Program Project No. 25-Log Cabin Drive from Hollingsworth Road to Napier Avenue.

Because of the future traffic projections, the no-build alternative would greatly increase the congested traffic conditions that already exist, resulting in a level of service that is unacceptable for a two-lane road. The proposed improvements to Log Cabin Drive are included in the adopted Macon Area Transportation Study and the current Transportation Improvement Program.

```
---- 1: LOCATION AND GEOMETRIC DATA                          18-JUL-1996
BRIDGE IN BIBB COUNTY                    | SERIAL NUMBER      : 0170-0
---------- FACILITY CARRIED ----------   | YEAR CONSTRUCTED   : 1937
     NEW COLUMBUS ROAD                   | YEAR RECONSTRUCTED: None
------------- LOCATION -------------     | DATE INSEPCTED     : March 1996
     .6 MI W OF SR 74  W MACON           | DESIGN LOAD        : H-15
-------- FEATURES INTERSECTED --------   | NATIONAL TRUCK RTE: OFF NETWORK
     ROCKY CREEK                         | SCHOOL BUS ROUTE   : YES
TYPE SERVICE ON    : Highway
TYPE SERVICE UNDER: Waterway.
STRUCTURE    : Steel Stringer Multi-beam; Girder
SURFACE      : Bituminous.
DECK         : Concrete
MAIN SUPPORT: Steel
SUBSTRUCTURE: Concrete
FOUNDATION   : Spread footing.
---- 2: SIGNS AND ATTACHMENT DATA
GUARDRAIL REAR         : Both sides.
GUARDRAIL FORWARD      : Left side only.
GUARDRAIL REAR OPP DIR: None.
GUARDRAIL FOR. OPP DIR: None.
---- 3: PROGRAMMING DATA
CONTARCT DATE      : No Date
RANKING NUMBER     : 0 Priority rating
TOTAL PROJECT COST: $535,000 (1990 IMPROVEMENT COST ESTIMATE)
LAST PROJECT #     : UNKNOWN
PROPOSED PROJECT #: No number entered.
PROPOSED WORK      : Widen; deck rehabilitation or replacement.
RECONSTRCT. STATUS: Not eligible for Federal Bridge Replacement Funds.
---- 4: HYDRAULIC DATA
SCOUR CRITICAL: Scour calculations not yet made
---- 5: MEASURMENT DATA
NUMBER OF LANES ON:  2  UNDER:  0
STRUCTURE LENGTH   : 140 FT       BRIDGE ROADWAY WIDTH: 23.8 FT
CLEARANCE (FT-IN) : OVER: 99-99  UNDER: 00-00  HORIZONTAL: 23.8 FT
SIDEWALK OR CURB   : 0.5 FT (LT) 0.5 FT (RT)
BRIDGE RAILING     : Meets acceptable construction date standards.
APPROACH GUARDRAIL: Does not meet current or construction date standards.
---- 6: RATING DATA
INVENTORY    : Indefinite safe use HS loading of 19 tons.
OPERATING    : Equal to or above legal load limit.
SUFFICIENCY : 54.7
STRUCTURE    : Minimum tolerable limits to be left in place as is.
DECK         : SATISFACTORY, structural elements show minor deterioration.
MAIN SUPPORT: GOOD, some minor problems.
SUBSTRUCTURE: GOOD, some minor problems.
SCOUR        : SLIGHT - structural member function not yet affected.
CHANNEL PROT: Minor damage and drift, minor repair needed.
---- 7: POSTING DATA
STRUCTURE POSTED : Open; no weight restriction.
TEMPORARY POSTING: No temporary conditions exist.
ACTUAL POSTINGS  : [H: NP  TONS] [TRI: NP  TONS] [3S2: NP  TONS]
```

TYPICAL SECTION
(N.T.S.)



PROJECT STP-3201(8), P.I. NO. 351100
PROJECT BHMLB 3201(11), P.I. NO. 351105 - MACON-BIBB CO. PROJ. NO. 11
LOG CABIN DR FROM MERCER UNIV DR TO HOLLINGSWORTH RD
INCLUDING BRIDGE OVER ROCKY CREEK

TRAFFIC ACCIDENT SUMMARY
MACON -BIBB COUNTY
TRAFFIC ENGINEERING DEPARTMENT

LOG CABIN DRIVE (from Hollingsworth Rd. to Mercer University Dr.)
Note: Locations are in order of occurrence from East to West

01-01-1993 Thru 12-31-1993

Street Name	Int Street /Block No	Total Accidents	Time		Accident Type				Fat.	Inj.
			Day	Night	Right Angle	Rear End	Left Turn	Other		
Log Cabin Dr	Hollingsworth Rd	3	1	2	2	1	0	0	0	8
Log Cabin Dr	4000	7	7	0	0	3	0	4	0	7
Log Cabin Dr	Fourth Ave	1	0	1	1	0	0	0	0	2
Log Cabin Dr	Meadowbrook Dr	3	1	2	0	2	0	1	0	0
Log Cabin Dr	4100	2	1	1	0	1	0	1	0	4
Log Cabin Dr	Briarwood Dr	1	0	1	0	0	0	1	0	1
Log Cabin Dr	Alton Ave	3	3	0	1	2	0	0	0	3
Log Cabin Dr	Hillary Pl	2	2	0	0	2	0	0	0	0
Log Cabin Dr	4200	4	3	1	3	1	0	0	0	1
Log Cabin Dr	Mercer University Dr	25	18	7	5	16	2	2	0	14
Total		**51**	**36**	**15**	**12**	**28**	**2**	**9**	**0**	**40**

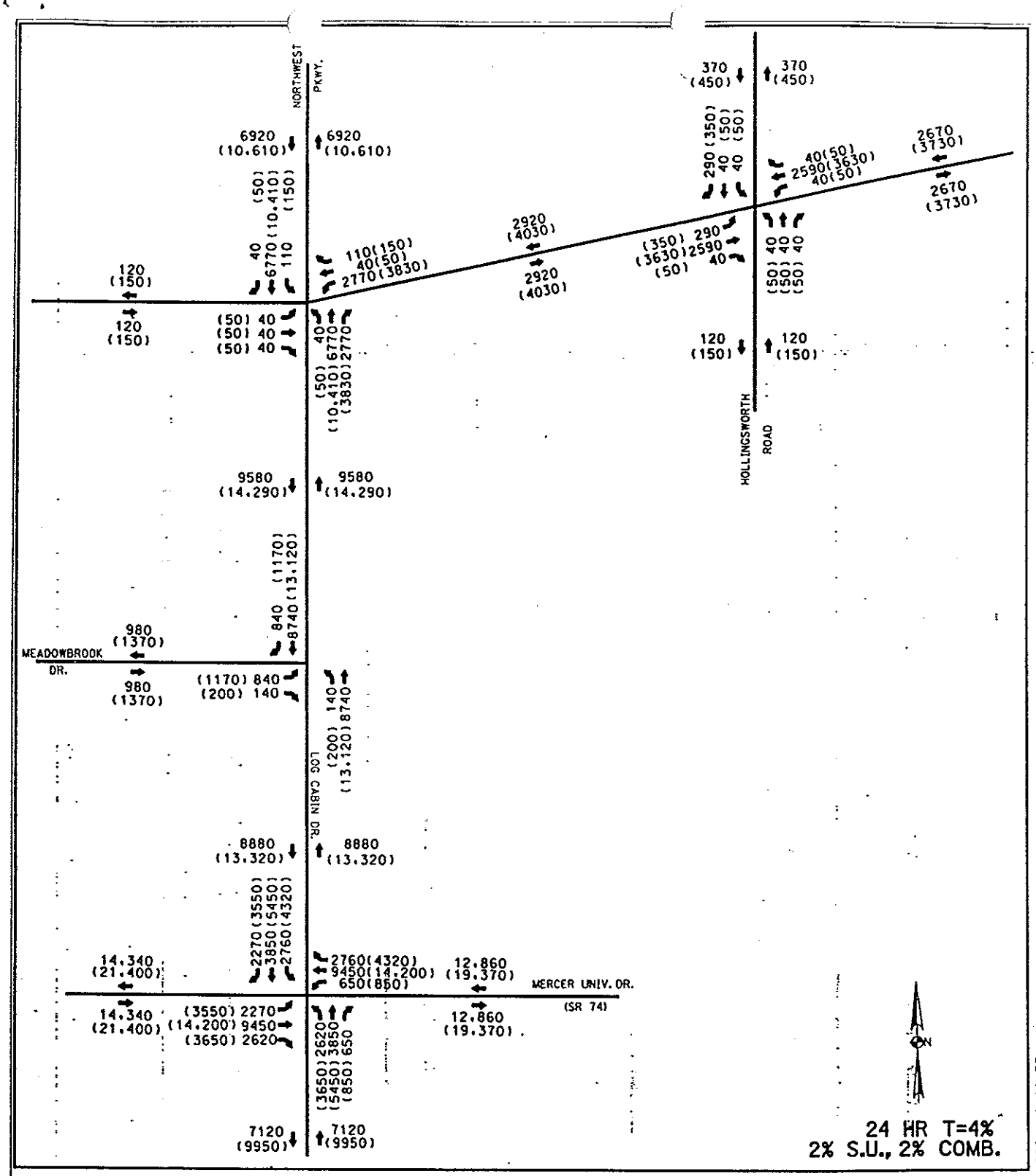
01-01-1994 Thru 12-31-1994

Street Name	Int Street /Block No	Total Accidents	Time		Accident Type				Fat.	Inj.
			Day	Night	Right Angle	Rear End	Left Turn	Other		
Log Cabin Dr	Hollingsworth Rd	6	5	1	5	1	0	0	0	4
Log Cabin Dr	4000	7	5	2	0	3	0	4	0	2
Log Cabin Dr	Meadowbrook Dr	2	1	1	1	0	0	1	0	2
Log Cabin Dr	4100	5	2	3	1	1	0	3	0	3
Log Cabin Dr	Alton Ave	2	2	0	2	0	0	0	0	3
Log Cabin Dr	Hillary Pl	3	2	1	0	3	0	0	0	0
Log Cabin Dr	4200	8	6	2	5	2	1	0	0	4
Log Cabin Dr	Mercer University Dr	26	15	11	3	20	0	3	0	20
Total		**59**	**38**	**21**	**17**	**30**	**1**	**11**	**0**	**38**

01-01-1995 Thru 12-31-1995

Street Name	Int Street /Block No	Total Accidents	Time		Accident Type				Fat.	Inj.
			Day	Night	Right Angle	Rear End	Left Turn	Other		
Log Cabin Dr	Hollingsworth Rd	10	5	5	3	3	2	2	0	9
Log Cabin Dr	4000	3	2	1	0	1	1	1	0	0
Log Cabin Dr	Meadowbrook Dr	2	2	0	2	0	0	0	0	1
Log Cabin Dr	4100	3	2	1	0	1	1	1	0	0
Log Cabin Dr	Alton Ave	5	4	1	1	2	1	1	0	8
Log Cabin Dr	4200	9	7	2	4	0	4	1	0	3
Log Cabin Dr	Mercer University Dr	29	15	14	5	16	7	1	0	13
Total		**61**	**37**	**24**	**15**	**23**	**16**	**7**	**0**	**34**

Note: No accident comparison has been done.



OPENING AND DESIGN YEAR AADT

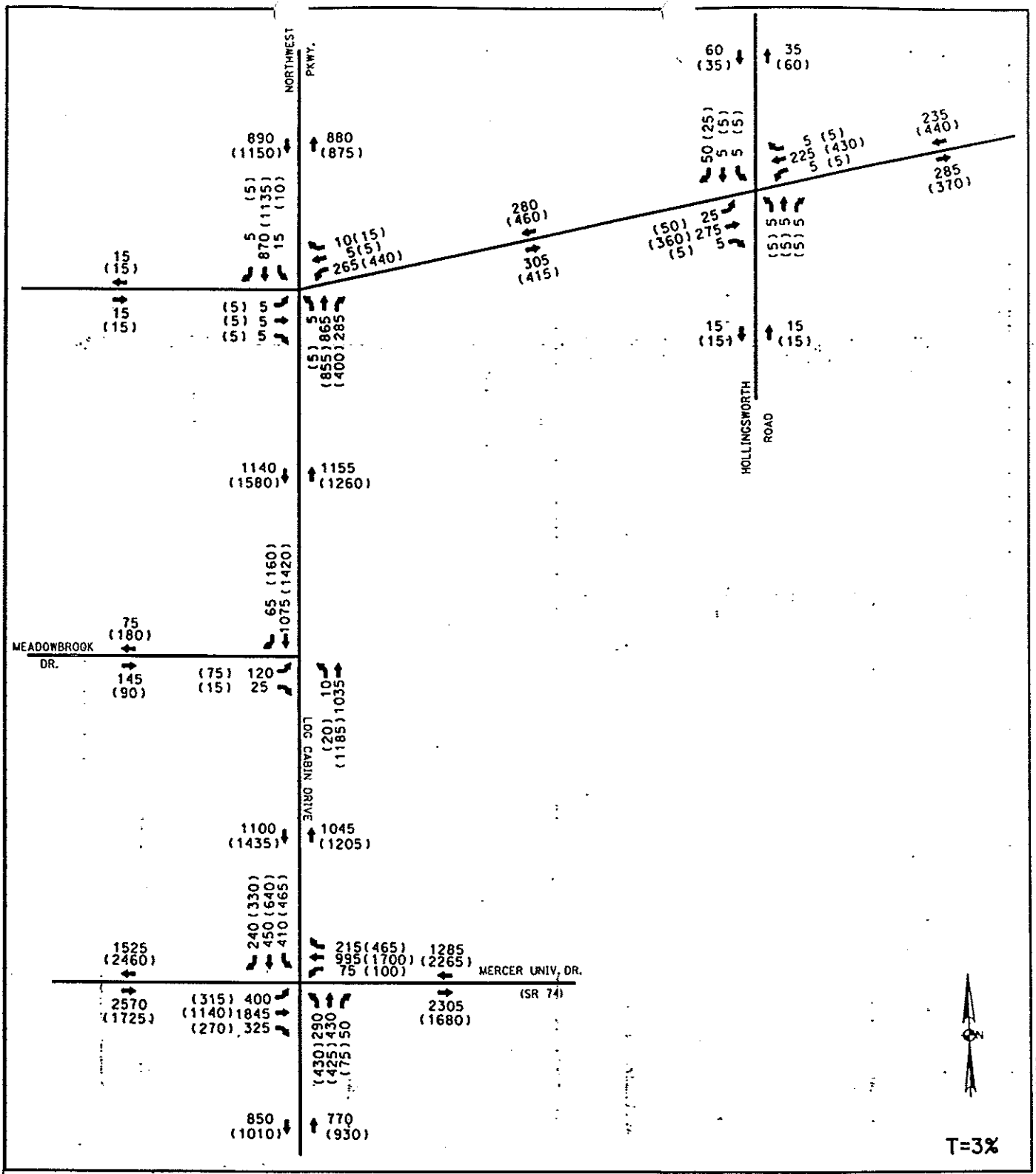
000 OPENING YEAR 2001 AADT
(000) DESIGN YEAR 2021 AADT

Moreland Altobelli Associates, Inc.

LOG CABIN DR. FROM MERCER UNIVERSITY DR. TO HOLLINGSWORTH ROAD INCL. BRIDGE OVER ROCKY CREEK

PROJECT NO. STP 3201(8), BHMLB 3201(11), P.I. NO. 351100, 351105
MACON-BIBB CO. ROAD PROGRAM PROJECT NO. 11

h:\5240\pro1-11.dgn Dec. 23, 1996 10:00:55



YEAR 2021 DESIGN HOUR TRAFFIC

000 AM PEAK DESIGN HOUR
(000) PM PEAK DESIGN HOUR

Moreland Altobelli Associates, Inc.

LOG CABIN DR. FROM MERCER UNIVERSITY DR. TO HOLLINGSWORTH ROAD INCL. BRIDGE OVER ROCKY CREEK

PROJECT NO. STP 3201(8), BHMLB 3201(11), P.I. NO. 351100, 351105
MACON-BIBB CO. ROAD PROGRAM PROJECT NO. 11

h:\5240\proj-11.dgn Dec. 23, 1996 10:35:56

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4a 12-20-1996
Center For Microcomputers In Transportation

Streets: (E-W) MERCER UNIV DR (N-S) LOG CABIN DR
Analyst: MAAI File Name: MULOG21A.HC9
Area Type: Other 12-20-96 AM PEAK
Comment: DESIGN YEAR 2021 TRAFFIC

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	2	3	1	2	3	1	2	2	<	2	2	1
Volumes	400	1845	325	75	995	215	290	430	50	410	450	240
Lane Width	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0		12.0	12.0	12.0
RTOR Vols			0			0			0			0
Lost Time	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Signal Operations

Phase Combination	1	2	3	4		5	6	7	8
EB Left	*	*	*		NB Left	*	*		
Thru		*	*		Thru		*		
Right		*	*		Right		*		
Peds			*		Peds		*		
WB Left	*		*		SB Left	*	*		
Thru			*		Thru		*		
Right			*		Right		*		
Peds			*		Peds		*		
NB Right					EB Right	*			
SB Right	*	*			WB Right	*			
Green	7.0A	8.0A	40.0A		Green	10.0A	25.0A		
Yellow/AR	5.0	0.0	5.0		Yellow/AR	5.0	5.0		

Cycle Length: 110 secs Phase combination order: #1 #2 #3 #5 #6

Intersection Performance Summary

	Lane Mvmts	Group: Cap	Adj Sat Flow	v/c Ratio	g/C Ratio	Delay	LOS	Approach: Delay	LOS
EB	L	1026	3505	0.423	0.336	9.1	B	16.4	C
	T	2515	5534	0.849	0.455	19.3	C		
	R	927	1568	0.369	0.591	7.7	B		
WB	L	430	3505	0.188	0.164	13.0	B	15.9	C
	T	2113	5534	0.545	0.382	17.4	C		
	R	813	1568	0.278	0.518	9.7	B		
NB	L	661	3505	0.475	0.245	15.9	C	21.3	C
	TR	891	3631	0.596	0.245	24.5	C		
SB	L	671	3505	0.663	0.245	18.0	C	19.9	C
	T	905	3689	0.550	0.245	23.9	C		
	R	627	1568	0.403	0.400	15.5	C		

Intersection Delay = 17.6 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 15.0 sec Critical v/c(x) = 0.769

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4a 12-20-1996
Center For Microcomputers In Transportation

Streets: (E-W) MERCER UNIV DR (N-S) LOG CABIN DR
Analyst: MAAI File Name: MULOG21P.HC9
Area Type: Other 12-20-96 PM PEAK
Comment: DESIGN YEAR 2021 TRAFFIC

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	2	3	1	2	3	1	2	2	<	2	2	1
Volumes	315	1140	270	100	1700	465	430	425	75	465	640	330
Lane Width	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0		12.0	12.0	12.0
RTOR Vols			0			0			0			0
Lost Time	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Signal Operations

Phase Combination		1	2	3	4			5	6	7	8
EB	Left	*	*	*		NB	Left	*	*		
	Thru		*	*			Thru		*		
	Right		*	*			Right		*		
	Peds			*			Peds		*		
WB	Left	*		*		SB	Left	*	*		
	Thru			*			Thru		*		
	Right			*			Right		*		
	Peds			*			Peds		*		
NB	Right					EB	Right	*			
SB	Right	*	*			WB	Right	*			
Green		7.0A	8.0A	40.0A		Green		10.0A	25.0A		
Yellow/AR		5.0	0.0	5.0		Yellow/AR		5.0	5.0		

Cycle Length: 110 secs Phase combination order: #1 #2 #3 #5 #6

Intersection Performance Summary

	Lane Mvmts	Group: Cap	Adj Sat Flow	v/c Ratio	g/C Ratio	Delay	LOS	Approach: Delay	LOS
EB	L	676	3505	0.506	0.336	13.3	B	12.9	B
	T	2515	5534	0.525	0.455	14.0	B		
	R	927	1568	0.307	0.591	7.3	B		
WB	L	919	3505	0.118	0.164	10.8	B	23.7	C
	T	2113	5534	0.931	0.382	27.0	D		
	R	813	1568	0.602	0.518	12.9	B		
NB	L	748	3505	0.624	0.245	18.1	C	21.8	C
	TR	885	3606	0.624	0.245	24.9	C		
SB	L	678	3505	0.743	0.245	19.7	C	23.0	C
	T	905	3689	0.782	0.245	28.2	D		
	R	627	1568	0.553	0.400	17.2	C		

Intersection Delay = 20.3 sec/veh Intersection LOS = C

Lost Time/Cycle, L = 12.0 sec Critical v/c(x) = 0.846

HCM: SIGNALIZED INTERSECTION SUMMARY Version 2.4a 12-20-1996
Center For Microcomputers In Transportation

Streets: (E-W) LOG CABIN DR (N-S) NORTHWEST PKWY
Analyst: MAAI File Name: NWLOG21A.HC9
Area Type: Other 12-11-96 AM PEAK
Comment: YEAR 2021 DESIGN HOUR TRAFFIC

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	<	2	1	<	1	2	1	1	2	1
Volumes	5	5	5	265	5	10	5	865	285	15	870	5
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0	12.0	12.0	12.0	12.0
RTOR Vols			0			0			0			0
Lost Time	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		*			NB Left *			
Thru		*			Thru *			
Right		*			Right *			
Peds					Peds *			
WB Left	*				SB Left *			
Thru	*	*			Thru *			
Right	*	*			Right *			
Peds	*	*			Peds *			
NB Right					EB Right			
SB Right					WB Right			
Green	25.0A	20.0A			Green 50.0A			
Yellow/AR	5.0	5.0			Yellow/AR 5.0			

Cycle Length: 110 secs Phase combination order: #1 #2 #5

Intersection Performance Summary

	Lane Group: Mvmts	Cap	Adj Sat Flow	v/c Ratio	g/C Ratio	Delay	LOS	Approach: Delay	LOS
EB	L	332	1662	0.015	0.200	22.8	C	22.9	C
	TR	341	1706	0.029	0.200	22.9	C		
WB	L	860	3505	0.334	0.245	22.1	C	21.5	C
	TR	782	1654	0.020	0.473	10.0	B		
NB	L	73	155	0.068	0.473	10.2	B	13.3	B
	T	1744	3689	0.549	0.473	13.6	B		
	R	741	1568	0.405	0.473	12.4	B		
SB	L	74	157	0.216	0.473	11.2	B	13.6	B
	T	1744	3689	0.552	0.473	13.7	B		
	R	741	1568	0.007	0.473	9.9	B		

Intersection Delay = 14.5 sec/veh Intersection LOS = B
Lost Time/Cycle, L = 9.0 sec Critical v/c(x) = 0.380

MEETING/CONFERENCE RECORD OF ATTENDEES

NH-IM-75-1(192).

PURPOSE: Concept Meeting for Projects STP-3201(8), BHMLB-3201(11), STP-3201(9)+(10)

LOCATION: Urban Design Conference Room

DATE: March 5, 1997 HOUR: 9:00.

MODERATOR:

	NAME	ORGANIZATION	TELEPHONE NO.
1.	Angela T. Alexander	Urban Design	656-5449
2.	GARY L. OWENS	URBAN DESIGN	(404) 656-5444
3.	Reba P. Scott	Programming GA DOT	Hol. 651-7043
4.	Lewis Walker	GA DOT - Thomaston	706-647 1070
5.	Tony Sack	GDOT Env/Loc.	(404) 699-4422
6.	Tom Queen	" " "	(404) 699-4412
7.	[illegible]	GA DOT Env/Loc	(706)-647-1057
8.	KERRY GORE	GA DOT UTILITIES	706-647-1023
9.	Ken Estes	Ga. DOT TD.	404-635-8127
10.	GENE GOINS	" " UTILITIES	706-647-1020
11.	KEN REEVES	GA DOT TRAFFIC OPR.	706.647-1087
12.	Greg Schneider	MAAI	770-455-9375
13.	Donnie Peacock	MAA I	770-455-9375
14.	Cora Cook	GADOT - Planning	404 657 6687
15.	R NAGABHUSHANA	MACON WATER AUTHORITY	(912) 741-9155
16.	Brent Cook	GADOT - Planning	(404) 656-5560
17.	Bill Hartmann	MAAI	770-931-5799
18.	GORDON BROWN	MAAI	912-755-0000
19.	Charles McElhaney	MAAI	" " "
20.	Van Ethridge	MAAI	" " "
21.	KENNETH H. SHEETS	CITY OF MACON	912-751-7180

REMARKS: 22. ALLEN K. MAULL Ga. D.O.T./RIGHT OF WAY 404-657-8515

23. Ben Buchan Ga D.O.T Urban 404-656-5454

24. Joe Pallardi Urban Design 404-656-5436

D.O.T. 6

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

RECEIVED
FEB 21 1997
PRECONSTRUCTION

INTERDEPARTMENT CORRESPONDENCE

FILE STP-3201(8), BHMLB-3201(11), Bibb County
P.I. Nos. 351100, 351105

OFFICE Environment/Location

DATE February 19, 1997

FROM DES
David E. Studstill, P.E., State Environmental/Location Engineer

TO
Wayne Hutto, P.E., Assistant Director of Preconstruction

SUBJECT
CONCEPT REPORT

The concept report for the above listed project has been reviewed. The level of environmental analysis for this project will likely be an environmental assessment due to the number of anticipated residential displacements (social impacts). Age of bridge indicates possible historic resource. If bridge is historic, a Programmatic 4(f) will be required.

If you have any questions, please let me know.

DES/JSS/bh

cc: Bobby Mustin
Jim Kennerly

Department of Transportation

State of Georgia

DRAFT PROJECT CONCEPT REPORT

Log Cabin Drive (CR 88) Reconstruction
from Mercer University Drive (SR 74) to Hollingsworth Road (CR 87)

Project Number: STP-3201(8), BHMLB-3201(11)
County: Bibb
P.I. Number: 351100, 351105
U.S. Route Number: None
State Route Number: None
Date of Report: 12/20/96

RECOMMENDATION FOR APPROVAL:

DATE	STATE URBAN DESIGN ENGINEER
2/18/97	
DATE	STATE ENVIRONMENT/LOCATION ENGINEER
DATE	STATE TRAFFIC OPERATIONS ENGINEER
DATE	DISTRICT ENGINEER
DATE	PROJECT REVIEW ENGINEER
DATE	STATE BRIDGE & STRUCTURAL DESIGN ENGINEER

Department of Transportation

State of Georgia

PROJECT CONCEPT REPORT

Log Cabin Drive (CR 88) Reconstruction
from Mercer University Drive (SR 74) to Hollingsworth Road (CR 87)

Project Number: STP-3201(8), BHMLB-3201(11)
County: Bibb
P.I. Number: 351100, 351105
U.S. Route Number: None
State Route Number: None
Date of Report:3/17/97

Project Map Enclosed

RECOMMENDATION FOR APPROVAL:

5/1/97 — Joseph Pollard
DATE — STATE URBAN DESIGN ENGINEER

DATE — STATE ENVIRONMENT/LOCATION ENGINEER

DATE — STATE TRAFFIC OPERATIONS ENGINEER

5-2-97 — [signature]
DATE — DISTRICT ENGINEER

DATE — PROJECT REVIEW ENGINEER

DATE — STATE BRIDGE & STRUCTURAL DESIGN ENGINEER