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DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE MR-8038(8); MR-8042(5) Muscogee County OFFICE Preconstruction
 P.I. No. 350795; 350796 DATE August 15, 1991

FROM *CWH*
 C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL - WIDENING OF BUENA VISTA ROAD

Attached for your files is the approval for subject project.

CWH/se

Attachment

DISTRIBUTION:

- John Lively
- Robert E. Humphrey
- David Studstill
- Herman Griffin
- Roland Hinners
- Darrell Elwell
- Winn Guthrie
- Kirby Hamil
- Walker Scott
- Ron Colvin
- Van Etheridge



ADMIN	<i>[Signature]</i>
DEV	✓ 8-19-91
MGT	
SCHED	✓ 22
Handlings	
DWB 8-20-91 WINNETT - ADD TO	
CWP 9/91 COMBINE	
INTO ONE PROJECT :	

MR-8042(5) + DELETE
 MR-8038(8)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE MR-8038(8); MR-8042(5) Muscogee County OFFICE Preconstruction
P.I. Nos. 350795; 350796 DATE August 9, 1991

FROM Hoyt Lively, Director of Preconstruction

TO Hal Rives, Commissioner

SUBJECT WIDENING OF BUENA VISTA ROAD - PROJECT CONCEPT REPORT

These two projects, when combined, will widen Buena Vista Road from Wynnton Road southeasterly to Illges Road. From Wynnton Road to Brown Avenue the existing road has an urban section with 4-10' lanes. From Brown Avenue to Illges Road, the existing road has an urban section with 2-12' lanes, all on variable width right-of-way. The posted speed is 35 MPH. Accident data for the projects are:

	<u>1989</u>	<u>1990</u>
Total Accidents	80	75
Total Injuries	14	13
Total Fatalities	0	0

Base year and design year traffic is 19,000 VPD (1996) and 29,500 VPD (2016).

Project MR-8042(5) extends from Wynnton Road to Lawyers Lane and Project MR-8038(8) extends from Lawyers Lane to Illges Road. Both projects will widen Buena Vista Road to have an urban section with 4-12' lanes w/20' raised median for a project length of 1.07 miles and 0.68 mile, respectively with a design speed of 35 MPH. A small retaining wall may be required along the Dinglewood Subdivision. Traffic will be maintained on existing road during construction. Intersection improvements and median openings are discussed in the attached Concept Team Meeting Minutes. Environmental considerations are: (1) displacements of 4 residential and 15 commercial; (2) several possible UST sites; (3) Environmental Assessment; (4) a public hearing will be held. The estimated cost of the projects are:

	<u>MR-8038(8)</u>		
	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG. DATE</u>
Constr(Infl&E/C)	\$1,230,000	\$1,517,000	FY 94
Right-of-way	LGPA*	LGPA	Preprogram
Utilities	LGPA*	LGPA	

*LGPA to be sent after concept approval

Hal Rives
Page 2
August 9, 1991

MR-8038(8); MR-8042(5) Muscogee County

	<u>MR-8042(5)</u>		
	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG. DATE</u>
Constr(Infl&E/C)	\$2,301,000	\$2,168,000	FY 94
Right-of-way	LGPA*	LGPA	Preprogram
Utilities	LGPA*	LGPA	

*LGPA to be sent to County after concept approval

I recommend that we approve this project concept report, that the projects be removed from Preprogram Status and added to the Construction Work Program for implementation.

HJL/WLP/se

Attachment

CONCUR:

G. C. Lewis

G. C. Lewis, State Highway Engineer

APPROVED:

Hal Rives

Hal Rives, Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

RECEIVED

JUL 15 1991

FILE MR-8038 (8), MR-8042 (5) Muscogee County OFFICE Atlanta, Georgia
P.I. No. 350795, 350786
Widening Buena Vista Road DATE July 12, 1991

FROM Robert E. Humphrey, Project Review Engineer **REH**

TO William J. Durrence, Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

We have reviewed the attached Concept Report for this Major project and have the following comment:

The Report states that Utility relocations and Right of Way acquisitions will be the responsibility of local government, however, a Local Government Project Agreement was not included with the Report.

We have received signed cover sheets from the following offices:

Traffic and Safety
Environmental

This report is satisfactory for approval.

The estimated costs of this project are as follows:

	<u>MR-8038 (8)</u>	<u>MR-8042 (5)</u>
Construction	\$1,016,000	\$1,902,000
Inflation (5% per year)	101,600	190,200
E & C (10%)	111,760	209,220
Preliminary Engineering (5%)	55,880	104,610
Right of Way	LGPA Antic.	LGPA Antic.
Utilities	LGPA Antic.	LGPA Antic.

MJB/jmf

Attachments

c: Hoyt J. Lively

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

FILE MR-8038(8) & MR-8042(5) MUSCOGEE OFFICE Urban Design
P.I.Nos. 350795 & 350796
Widening of Buena Vista Rd DATE April 16, 1991

FROM Hoyt J. Lively, Jr., P.E., State Urban Design Engineer

TO Robert E. Humphrey, P.E., Project Review Officer

SUBJECT PROPOSED PROJECT CONCEPT REPORT

Transmitted herewith for your review and handling is the proposed Project Concept Report for the widening of Buena Vista Road from Wynnton Road to Illges Road in Columbus. Please take the necessary steps to process the report through the Department in accordance with the Project Development Process.

HJL

Attachment

xc: Frank L. Danchetz w/attachment
Ron Colvin w/attachment
Van Etheridge w/attachment
Juan Durrence
Wayne Hutto



DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA



PROJECT CONCEPT REPORT

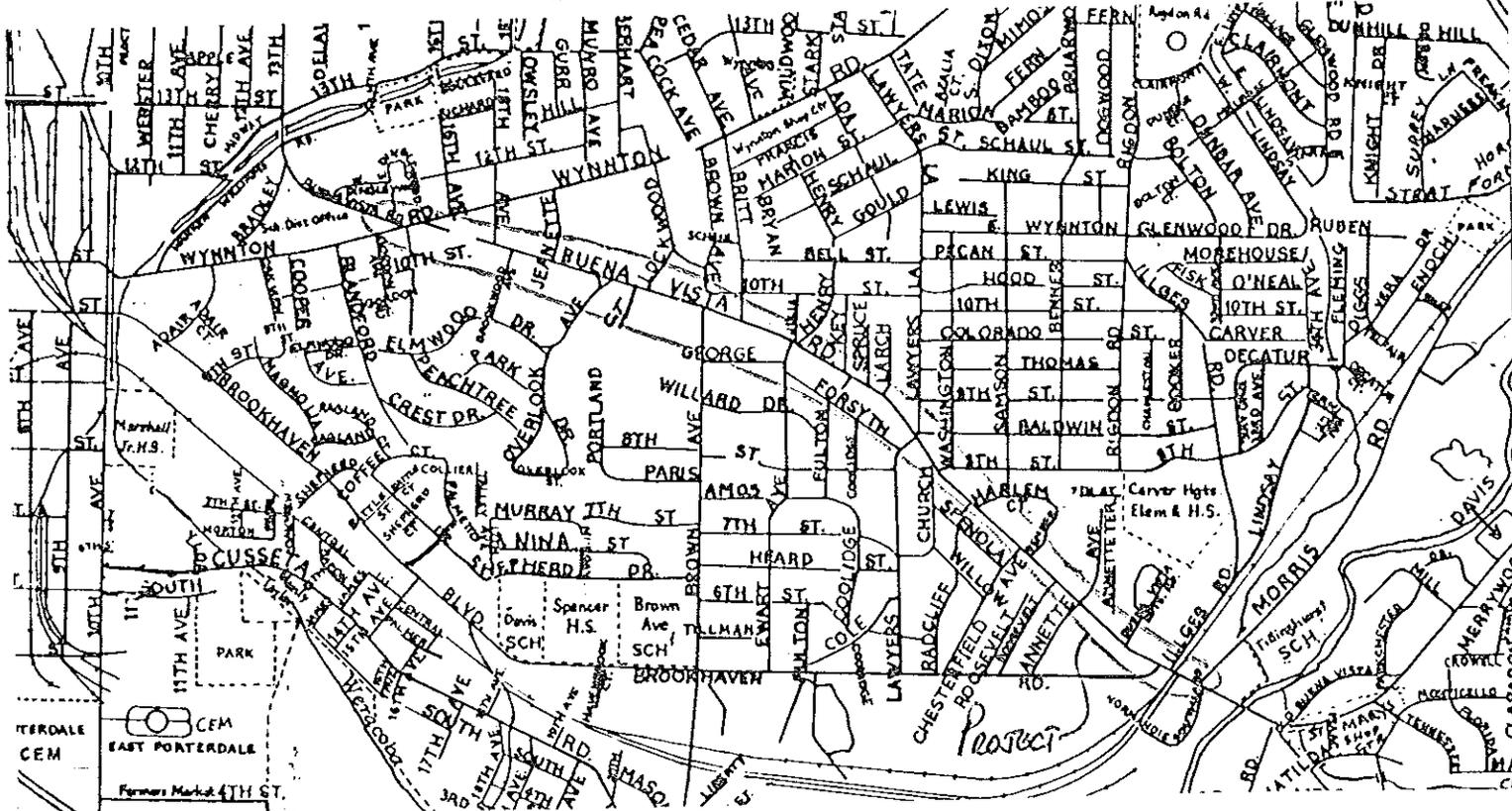
MR-8038(8) & MR-8042(5) MUSCOGEE

WIDENING BUENA VISTA RD FM WYNNTON RD TO ILLGES RD

Federal Route No: M8038/M8042

State Route No: N/A

GaDOT P.I.Nos. 350795 & 350796



Date of Report: 16 Apr 91

RECOMMENDATION FOR APPROVAL

4/16/91
Date

[Signature]
State Urban Design Engineer

Date

State Environmental Engineer

Date

State Traffic and Safety Engineer

Date

District Engineer

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

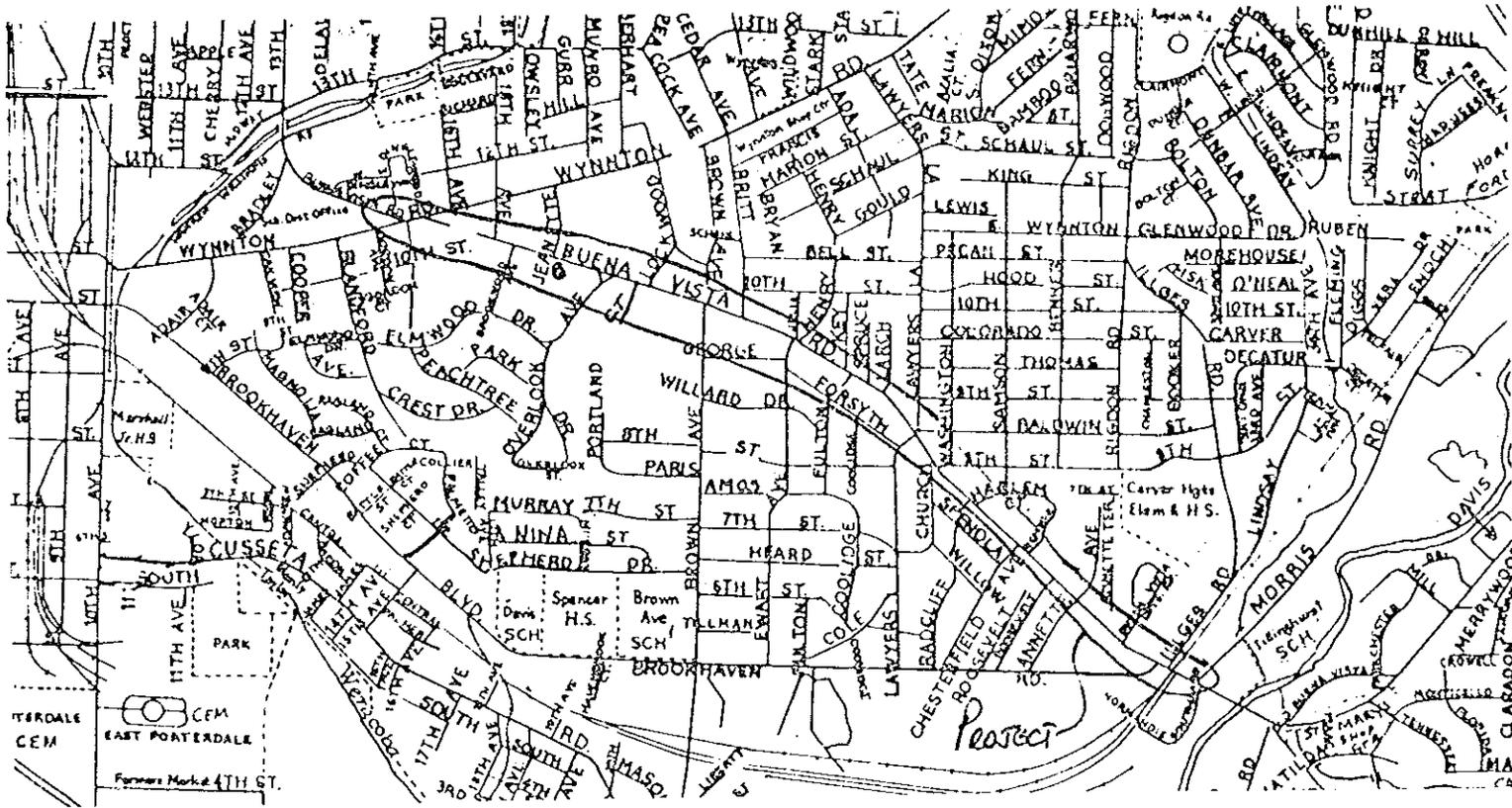
PROJECT CONCEPT REPORT

MR-8038(8) & MR-8042(5) MUSCOGEE

WIDENING BUENA VISTA RD FM WYNNTON RD TO ILLGES RD



Federal Route No: M8038/M8042
State Route No: N/A
GaDOT P.I.Nos. 350795 & 350796



Date of Report: 10/17/91

RECOMMENDATION FOR APPROVAL

4/16/91
Date

[Signature]
State Urban Design Engineer

5/2/91
Date

[Signature]
State Environmental Engineer

Date

State Traffic and Safety Engineer

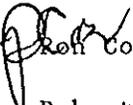
Date

District Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE MR-8038 (8) & MR-8042 (5) OFFICE Atlanta, Ga.
Muscogee County
P.I. No. 350795 & 350796 DATE May 6, 1991

FROM  John Colvin, P.E., State Traffic & Safety Engineer

TO Robert E. Humphrey, P.E., Project Review Engineer

SUBJECT Project Concept Report Review

We have reviewed the concept report on the above project for the proposed widening of Buena Vista Road from Wynnton Road to Illges Road. The existing four lane urban section between Wynnton and Brown Ave., along with the two lane section between Brown Ave. and Illges will be widened to a four lane urban section with a 20 ft. raised median. We believe this concept will improve safety and operational capacity along this roadway. We, therefore, find this report satisfactory for approval.

RC:CKE:lw
Attachment (signature page)
cc: John Lively; Van Etheridge

Date: April 16, 1991

PROJECT CONCEPT REPORT

PROJECT NO: MR-8038(8) & MR-8042(5) MUSCOGEE P.I.Nos. 350795 & 350796

PREVIOUS PROJECT NO.: N/A

ROUTE NO.: M8038/M8042

LOCATION: Buena Vista Road (City Street 2226) in Columbus from Wynnton Road to Illges Road.

TRAFFIC: CURRENT ADT 19,000 (YR 1996) PROJECTED ADT 29,500 (YR 2016)

EXISTING TYPICAL SECTION: From Wynnton Road to Brown Avenue the existing section is four 10' lanes with an urban section. From Brown Avenue to Illges the existing section is two lanes of approximately 12' each in width with an urban section. The existing right-of-way width varies along the roadway.

POSTED SPEED LIMIT: 35 mph.

EXISTING MAJOR STRUCTURES: None.

ACCIDENT HISTORY: The following is a summary of the accident data available for the roadway from Illges Rd to Wynnton Rd:

	1989	1990
TOTAL ACCIDENTS:	80	75
TOTAL INJURIES:	14	13
TOTAL FATALITIES:	0	0

The accident and injury numbers indicate improvements to the road are needed.

STATEMENT OF NEED & PURPOSE OF PROJECT: See attached.

PROJECT CONCEPT

MR-8038(8)

LENGTH: 0.66 Mile BEGINNING: At the Buena Vista Rd/Illges Rd intersection. ENDING: At the Buena Vista Rd/Lawyers Ln intersection.

MR-8042(5)

LENGTH: 1.07 Mile BEGINNING: At the Buena Vista Rd/Lawyers Ln intersection. ENDING: At the Buena Vista Rd/Wynnton Rd intersection.

MR-8038(8) & MR-8042(5)

PDP CLASS: Major - Existing FUNCTIONAL CLASS: Urban - Arterial

MAX DEG OF CURVE: 5 Deg MAX GRADE: 5% DESIGN SPEED: 35 mph

PROPOSED TYPICAL SECTION: A four lane section with a 20' raised median and curb & gutter is proposed. The minimum right-of-way proposed is 92'.

MAJOR STRUCTURES: It is anticipated that a small retaining wall will be needed along the Dinglewood subdivision.

TYPE ACCESS: Regulated.

TRAFFIC CONTROL DURING CONSTRUCTION: Maintain existing traffic at all times during construction.

ESTIMATED COST:

<u>ITEM</u>	<u>MR-8038(8)</u>	<u>MR-8042(5)</u>
R/W	By Locals	By Locals
UTILITIES	By Locals	By Locals
SUBTOTAL	-----	-----
CONSTRUCTION	\$ 1,016,000	\$ 1,902,000
INFLATION	160,000	300,000
E&C	118,000	220,000
TOTAL CONSTRUCTION	\$ 1,294,000	\$ 2,422,000

PERMITS REQUIRED: None.

LEVEL OF ENVIRONMENTAL ANALYSIS: Environmental Assessment.

LEVEL OF PUBLIC INVOLVEMENT: A public hearing is required.

TIME SAVINGS PROCEDURES APPROPRIATE? YES NO X

DESIGN VARIANCES REQUIRED: None known at this time.

ALTERNATES CONSIDERED: 1. Build 2. No build

OTHER PROJECTS IN AREA: MR-8038(7) Muscogee - Widening of St Mary's Rd from Buena Vista Rd to Robin Rd - Under design.

CONCEPT TEAM MEETING HELD: February 26, 1991.

PRESENT: See attached Concept Team Meeting Minutes.

FIELD REVIEW HELD: A field plan review has not been held at this time.

RAILROAD INVOLVEMENT: None.

POSSIBLE UNDERGROUND STORAGE TANK SITES: There are several sites along both projects that will need to be investigated.

COMMENTS: It is proposed to provide median openings at the following locations and spacings:

Wynnton Road	800'
18th Street	1,200'
Overlook Drive	1,100'
Brown Avenue	1,050'
Henry/Ewart Avenue	1,400'
Lawyers Lane	1,000'
Radcliff/8th St Relocation	1,450'
Annette Lane	1,100'
Illges Road	

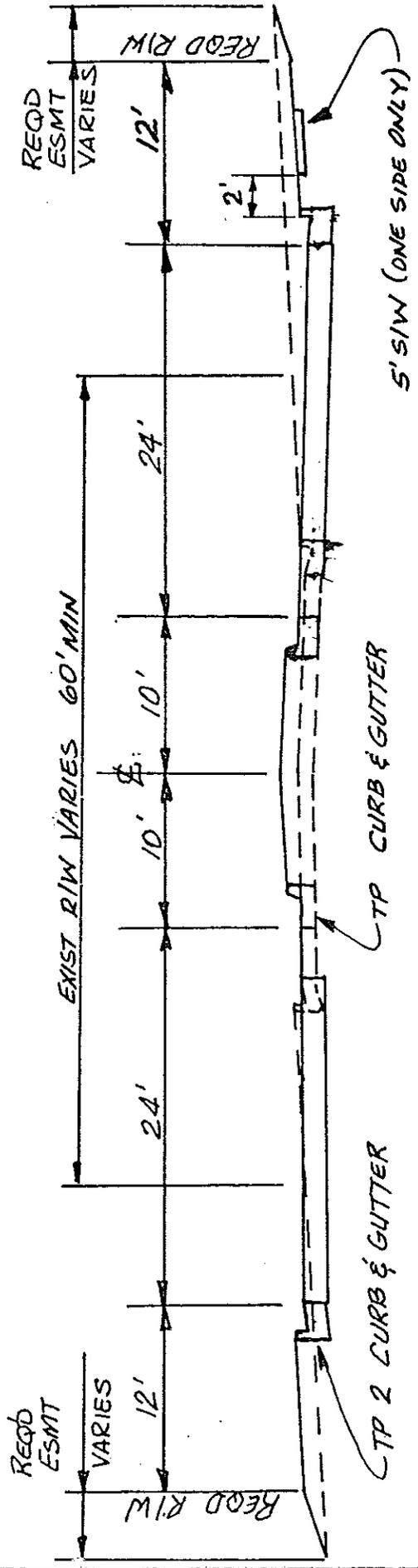
For additional comments see the attached Concept Team Meeting Minutes.

ATTACHMENTS: Typical Section, Need & Purpose Statement, Concept Team Meeting Minutes, Construction Cost Estimate.

MR-8038 (2)
PROJECT NO MR 8042 (5)

COUNTY MUSCOGEE

TYPICAL SECTION



BUENA VISTA ROAD

Need and Purpose Statement

Buena Vista Road

The Columbus-Phenix City Transportation Study recommends in its Adopted Year 2010 Transportation Plan the widening and reconstruction of Buena Vista Road from Wynnton Road (SR 22 Spur) to Illges Road. The Study recommendation is to widen this 1.7 mile portion of Buena Vista Road from its two and four lane configuration to a continuous four (through) lane configuration with standard 12 lane widths and with turn lanes added as needed or as necessary along the length of the project.

Buena Vista Road is a four lane roadway between Wynnton Road and Brown Avenue; however, the lane widths are substandard (approximately 11 ft. wide). The land use along this portion of Buena Vista Road is office/institutional and commercial. Among the office buildings and banks there are a few apartment buildings and residential type structures interspersed on both sides of the road. Traffic in and through this section of Buena Vista Road has risen steadily over the past few years. Average annual daily traffic figures in 1988 were recorded to be in the 11,700 vehicles per day (vpd) range, in 1989 - 12,100 vpd, and in 1990 - 14,100 vpd. Future Year 2010 Traffic figures are estimate to be 21,000 vpd.

Between Brown Avenue and Illges Road, Buena Vista Road is two lanes, except for the Illges intersection where the road widens to four lanes. Also, the area Buena Vista Road traverses is dramatically different from the previous section. Almost the entire length of this portion of the

roadway traverses through single and multi-family residential properties. The area north of Buena Vista is locally known as the Carver Heights area and a portion of this Carver Heights area contains urban renewal/public housing type development. The south side of Buena Vista is filled with single family, wood framed homes with an occasional neighborhood grocery store, church, or convenience store establishment among these homes. For the most part, the homes and businesses along this stretch of roadway are set back from the roadway. The road is striped as a two lane; however, it is a wide two lane with lane widths greater than 12 ft. Traffic in and through this section of Buena Vista Road has remained fairly constant over the past few years. Average annual daily traffic volumes have been recorded and ranges from 12,600 vpd in 1988 to 11,000 and 11,700 vpd in 1989 and 1990, respectively. Future traffic volumes are estimated to be 19,500 vpd in the year 2010.

Beyond Illges Road, Buena Vista opens up into a seven lane wide cross section of roadway known as the Spiderweb. It is appropriately named as such for the multitude of roads that intersect Buena Vista Road on both sides of the bridge over Bull Creek.

In the Year 2010 Transportation Plan, Buena Vista Road is, and will continue to be, an arterial roadway serving both abutting land use and through traffic movement. The anticipated future growth along Buena Vista Road is thought to be minimal due to the land development and land use it now bisects. The existing land use has reached its saturation point and is fully developed north and south of the roadway. Very little change is expected in this current land use for the future.

Since Buena Vista does serve through traffic, the modest increase (approximately 2% per year) in traffic we show in the year 2010 is due largely to its capability to accommodate through traffic.

The widening and reconstruction of Buena Vista Road is part of an overall planning effort to upgrade and to provide additional access and capacity to the roads in the southeastern portion of Columbus. This Buena Vista Road project between Wynnton Road and I-185 combined with a project to widen Buena Vista eastward from I-185 to Schatulga Drive and with a St. Mary's Road widening project between Wynnton Road and I-185 are three such projects in need of improving. All these projects will provide for improved traffic flow and ease of access to I-185 and points eastward where Columbus is experiencing some growth and development in established residential and industrial areas. Thus, this proposed project would better connect the southeast residential, industrial and commercial development to the Columbus Central Business District and other points northward.

The presence of geographical and physical barriers such as Bull Creek and the Seaboard Coastline Railroad will continue to hamper efforts to provide new and or improved east to west travel corridors. These barriers combined with the near saturated residential and commercial development conditions, limits the options to enhance traffic flow in this area to improving already established transportation facilities. The widening of Buena Vista Road between Wynnton Road and Illges Road is one such road reconstruction and widening project that will provide improved east to west inter-corridor travel as well as local

intra-corridor travel.

The Columbus-Phenix City Transportation Study is an endeavor that originally began in 1965, and through a number of major and minor updates, a Comprehensive Transportation Plan for addressing travel needs through the Year 2010 has been developed and adopted by Federal, State, and Local Governments. This Adopted Year 2010 Columbus-Phenix City Transportation Plan is the direct result of a comprehensive, cooperative, and continuous planning process coordinated by the Planning Division of the Columbus Department of Community Development with the assistance of the Georgia Department of Transportation, the State of Alabama Highway Department, and the Federal Highway Administration.

CONCEPT TEAM MEETING MINUTES

DATE OF MEETING: February 26, 1991

PROJECT Nos. MR-8038(8) & 8042(5) Muscogee

P.I.Nos. 350795 & 350796

PROGRAMMED DESCRIPTION: MR-8038(8) - Widening of Buena Vista Rd from Illges Rd to Lawyers Lane. MR-8042(5) - Widening of Buena Vista Rd from Lawyers Lane to Wynnton Rd.

PROJECT LENGTH: MR-8038(8) - 0.66 Mile. MR-8042(5) - 1.07 Mile.

TRAFFIC DATA: MR-8038(8) 19,000 (1996 ADT) 29,500 (2016 ADT)
MR-8042(5) 17,800 (1996 ADT) 27,900 (2016 ADT)

APPROX EXISTING ROADWAY WIDTH/TYPE PAVEMENT: From Illges Rd to Brown Rd the roadway is two lanes with an urban section. From Brown Rd to Wynnton Rd the roadway is four lanes wide with an urban section. All pavement is asphalt.

GRADES EXISTING: 5%

PROPOSED: 5%

HORIZ CURVES EXIST: 5 Degree

PROPOSED: 5 Degree

PROPOSED DESIGN SPEED: 35 mph

EXISTING STRUCTURES: None.

PROPOSED ROADWAY WIDTH: A four lane roadway with a 20' raised median and an urban section is proposed.

PROPOSED R/W: 92' minimum

CLASS. - PDP: Major - Existing

FUNCTIONAL: Urban - Arterial

ENVIRONMENTAL REQUIREMENTS: Environmental assessment with a public hearing is required.

PERMITS REQUIRED: None known at this time.

ACCESS CONTROL: Regulated

COST ESTIMATE

	MR-8038(8)	MR-8042(5)
(AS PROGRAMMED):	\$ 1,517,000	2,168,000
(AS ESTIMATED):	\$ 1,294,000	2,422,000

LGPA: The local government project agreement has not been signed at this time.

ESTIMATED No. PARCELS/RELOCATIONS: 140/19 - 4 residential and
15 commercial

PROJECT SCHEDULE:	APP R/W PLANS	LET DATE
TENTATIVE (BEFORE CONCEPT MTG)	-----	FY94
RECOMMENDED	None	None

RAILROAD INVOLVEMENT: None.

DESCRIPTION OF RECOMMENDED CONCEPT/COMMENTS: The proposed project was presented to those attending the meeting. A four lane divided roadway with a 20' raised median and an urban section was shown. It was the general concurrence of those present that the presented section was what needed to be built. The location of the median openings was discussed. It was recognized that there would be some substandard opening spacings in order to provide traffic flow along the project. The median openings and spacings proposed are as follows:

Wynnton Road
800'
18th St
1,200'
Overlook Drive
1,100'
Brown Avenue
1,050'
Henry/Ewart Avenue
1,400'
Lawyers Lane
1,000'
Radcliff/8th St Relocation
1,450'
Annette Lane
1,100'
Illges

During the discussion of the median openings it was pointed out that access to the apartments and the adjacent property located in the southeast quadrant of Buena Vista and Wynnton would be difficult for vehicles traveling westbound on Buena Vista.

An initial capacity analysis indicates that a left turn lane from eastbound 13th Ave to northbound Wynnton Road is needed. This will involve right-of-way acquisition from the Dinglewood subdivision. Also, to get the Buena Vista/Wynnton Road

intersection to function it will be necessary to widen Wynnton Road approximately 1,000' to the west and 1,100' to the east of the intersection. The left turn from Wynnton Road northbound to westbound 13th Avenue will remain as currently configured.

At the Brown Ave/Buena Vista intersection it is proposed to widen Brown avenue to five lanes 800' south of Buena Vista and to four lanes 500' north of Buena Vista.

Henry and Ewart Avenue will be aligned to intersect at one point with Buena Vista and Julia Avenue will be cul de sac. The city has had some urban renewal work from this intersection eastward and has already acquired some additional right-of-way.

At the Lawyers Lane/Baldwin St/Church St/Buena Vista intersection it is proposed to realign Lawyers Lane, cul de sac Baldwin St and Church St, and widen Buena Vista to the north to avoid the church located on the south side.

The local government requested that 8th St be realigned to form an intersection with Radcliff. 8th St serves a public park and school and the 8th St realignment must be done in such a manner so as to miss the park land.

The Board of Education is constructing a new school in the triangle formed by Buena Vista and Martin Luther King. The local government requested that a median opening be provided for Annette Ave so as to serve the school.

LIST OF ATTENDIES

CONCEPT TEAM MEETING FOR ST MARY'S ROAD AND BUENA VISTA
PROJECTS MR-8038(7), MR-8038(8), AND MR-8042(5) MUSCOGEE

FEBRUARY 26, 1991

Steve Dockter	City of Columbus
James Dixon	DOT Planning
Melvin Collins	DOT OMR
Steven Yost	DOT Planning
Robert Sammens	DOT R/W
Dick Ellis	City of Columbus
Charles Gilbert	City of Columbus
Amy Carroll	City of Columbus
Bascombe Hughes	DOT Location
Steven M. Fix	Columbus Water Works
Becky Balkcom	Southern Bell, Atlanta
Ronald Hamlet	City of Columbus, Traffic Engineer
Henry Simpson	DOT Urban
Ken Estes	DOT T&S
Bill Moskal	DOT Urban
John Lively	DOT Urban

PRELIMINARY COST ESTIMATE

URBAN DESIGN OFFICE

DATE: 4/10/91 PROJECT NO: MR-8038(8) MUSCOGEE P.I.No. 350795

PREPARED BY: WJM [M8038(8).EST] MILEAGE: 0.66

PROJECT DESCRIPTION: Widening of Buena Vista Rd from Lawyers Lane to Illges Road in Columbus.

PROPOSED CONCEPT: Four lane urban section w/20' raised median.

EXISTING RDY: Two lane rural section with asphalt paving.

TRAFFIC: Exist: 19,000 (1996) Design: 29,500 (2016)

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

PROJECT COSTS

A. RIGHT-OF-WAY _____ By Locals

B. REIMBURSABLE UTILITIES _____ By Locals

C. MAJOR STRUCTURES

1. RETAINING WALLS (MAJOR)

_____ sf @ _____ \$0.00

_____ sf @ _____ \$0.00

2. CULVERTS

_____ Conc _____ cy @ _____ \$0.00

_____ Rbar _____ lbs @ _____ \$0.00

SUBTOTAL \$0.00

D. GRADING & EARTHWORK

1. BORROW: _____ cy @ _____ \$0.00

2. EXCAVATION:

Soil: 10000 _____ cy @ \$3.00 _____ \$30,000.00

Rock: _____ cy @ _____ \$0.00

SUBTOTAL \$30,000.00

E. DRAINAGE

1. PIPING SYSTEM

lf ___ in @	_____	\$0.00
lf ___ in @	_____	\$0.00
lf ___ in @	_____	\$0.00
lf ___ in @	_____	\$0.00
FES _____ @	_____	\$0.00
FES _____ @	_____	\$0.00
FES _____ @	_____	\$0.00

2. CATCH BASINS

___ EA @	_____	\$0.00
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3. DROP INLETS

___ EA @	_____	\$0.00
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4. DRAINAGE LUMP SUM

0.66 ___ Mi @ \$300,000	_____	\$198,000.00
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SUBTOTAL		\$198,000.00
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F. BASE & PAVING

1. AGGREGATE BASE - 9 In

10000 ___ tons @ \$11.00	_____	\$110,000.00
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2. ASPHALT PAVING

1700 ___ Tons_of_B_(2 in) @ \$35.00	_____	\$59,500.00
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2200 Tns_of_E_(1.5 in) @ \$35.00	_____	\$77,000.00
----------------------------------	-------	-------------

2500 ___ Tons_BASE_(3 in) @ \$33.00	_____	\$82,500.00
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700 ___ Tons_LEVELING @ \$40.00	_____	\$28,000.00
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1700 ___ Gals_of_TACK @ \$1.00	_____	\$1,700.00
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3. CONCRETE PAVING

___ sy @	_____	\$0.00
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SUBTOTAL		\$358,700.00
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G. CONCRETE WORK

1. CURB & GUTTER

18200 lf @ \$10.00 \$182,000.00

2. MEDIAN PAVING

1250 sy @ \$18.00 \$22,500.00

3. SIDEWALKS

2500 sy @ \$15.00 \$37,500.00

4. VALLEY GUTTER

100 sy @ \$24.00 \$2,400.00

SUBTOTAL \$244,400.00

H. LIGHTING/SIGN/STRIPE/SIGNAL

Signals @ \$0.00

SIGN/STRIPE \$12,000.00

SUBTOTAL \$12,000.00

I. GUARDRAIL

lf Ty @ \$0.00

lf Ty @ \$0.00

Anchors Ty @ \$0.00

Anchors Ty @ \$0.00

SUBTOTAL \$0.00

J. TRAFFIC CONTROL \$30,000.00

K. LUMP SUM ITEMS

1. CLEARING & GRUBBING

10 Acres @ \$10,000 \$100,000.00

2. LANDSCAPING/GRASSING

5 Acres @ \$1,000.00 \$5,000.00

3. EROSION CONTROL

5 Acres @ \$7,000.00 \$35,000.00

SUBTOTAL \$140,000.00

L. MISCELLANEOUS ITEMS

1. FIELD OFFICE _____ Type _____

2. RIGHT-OF-WAY MARKERS

30 _____ Ea _____ @ \$45.00 _____ \$1,350.00

3. NOISE WALLS

_____ sf _____ @ _____ \$0.00

4. CONSTRUCTION SEQUENCE _____

5. OTHER/SPECIAL ITEMS _____

SUBTOTAL \$1,350.00

ESTIMATE SUMMARY

RIGHT-OF-WAY By Locals
REIMBURSABLE UTILITIES By Locals

CONSTRUCTION COST SUMMARY

CLEARING & GRUBBING	\$100,000.00
EARTHWORK	\$30,000.00
BASE & PAVING	\$359,000.00
DRAINAGE	\$198,000.00
CONCRETE WORK	\$245,000.00
TRAFFIC CONTROL	\$30,000.00
EROSION CONTROL	\$35,000.00
GUARDRAIL	\$0.00
SIGN/STRIP/SIGNAL/LIGHT	\$12,000.00
LANDSCAPING/GRASSING	\$5,000.00
MISCELLANEOUS	\$2,000.00
SUBTOTAL ROADWAY ITEMS	\$1,016,000.00
MAJOR STRUCTURES	\$0.00
TOTAL CONSTRUCTION ESTIMATE	\$1,016,000.00
3 YEARS OF INFLATION AT 5%/YR	\$160,000.00
10% E&C	\$118,000.00
TOTAL	\$1,294,000.00

PRELIMINARY COST ESTIMATE

URBAN DESIGN OFFICE

DATE: 4/11/91 PROJECT NO: MR-8042(5) MUSCOGEE P.I.No. 350796

PREPARED BY: WJM [M8042(5).EST] MILEAGE: 1.07

PROJECT DESCRIPTION: Widening of Buena Vista Rd from Wynnton Road to Lawyers Lane in Columbus.

PROPOSED CONCEPT: Four lane urban section w/20' raised median.

EXISTING RDY: Two/four lane rural/urban section with asphalt paving.

TRAFFIC: Exist: 17,800 (1996) Design: 27,900 (2016)

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

PROJECT COSTS

A. RIGHT-OF-WAY _____ By Locals

B. REIMBURSABLE UTILITIES _____ By Locals

C. MAJOR STRUCTURES

1. RETAINING WALLS (MAJOR)

5000	sf @	\$45.00	_____	\$225,000.00
	sf @		_____	\$0.00

2. CULVERTS

_____ Conc	_____ cy @		_____	\$0.00
_____ Rbar	_____ lbs @		_____	\$0.00

SUBTOTAL \$225,000.00

D. GRADING & EARTHWORK

1. BORROW: _____ cy @ _____ \$0.00

2. EXCAVATION:

Soil:	19900	cy @	\$3.00	_____	\$59,700.00
Rock:		cy @		_____	\$0.00

SUBTOTAL \$59,700.00

E. DRAINAGE

1. PIPING SYSTEM

lf ___ in @	_____	\$0.00
lf ___ in @	_____	\$0.00
lf ___ in @	_____	\$0.00
lf ___ in @	_____	\$0.00
FES _____ @	_____	\$0.00
FES _____ @	_____	\$0.00
FES _____ @	_____	\$0.00

2. CATCH BASINS

___ EA ___ @	_____	\$0.00
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3. DROP INLETS

___ EA ___ @	_____	\$0.00
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4. DRAINAGE LUMP SUM

1.07 ___ Mi ___ @ \$300,000	_____	\$321,000.00
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SUBTOTAL		\$321,000.00
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F. BASE & PAVING

1. AGGREGATE BASE

20000 ___ tons ___ @ \$11.00	_____	\$220,000.00
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2. ASPHALT PAVING

2930 ___ Tons_of_B_(2 in) ___ @ \$35.00	_____	\$102,550.00
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3760 Tns_of_E_(1.5 in) ___ @ \$35.00	_____	\$131,600.00
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4390 ___ Tons_BASE_(9 in) ___ @ \$33.00	_____	\$144,870.00
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1670 ___ Tons ___ LEVELING ___ @ \$40.00	_____	\$66,800.00
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4080 ___ Gals_of_TACK ___ @ \$1.00	_____	\$4,080.00
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3. CONCRETE PAVING

___ sy ___ @	_____	\$0.00
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SUBTOTAL		\$669,900.00
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G. CONCRETE WORK

1. CURB & GUTTER

2800 lf @ \$10.00 \$28,000.00

2. MEDIAN PAVING

1225 sy @ \$18.00 \$22,050.00

3. SIDEWALKS

4670 sy @ \$15.00 \$70,050.00

4. VALLEY GUTTER

1400 sy @ \$24.00 \$33,600.00

SUBTOTAL \$153,700.00

H. LIGHTING/SIGN/STRIP/SIGNAL

2 Signals @ \$25,000 \$50,000.00

SIGN/STRIPE \$25,000.00

SUBTOTAL \$75,000.00

I. GUARDRAIL

lf Ty @ \$0.00

lf Ty @ \$0.00

Anchors Ty @ \$0.00

Anchors Ty @ \$0.00

SUBTOTAL \$0.00

J. TRAFFIC CONTROL \$100,000.00

K. LUMP SUM ITEMS

1. CLEARING & GRUBBING

20 Acres @ \$10,000 \$200,000.00

2. LANDSCAPING/GRASSING

10 Acres @ \$1,000.00 \$10,000.00

3. EROSION CONTROL

10 Acres @ \$7,000.00 \$70,000.00

SUBTOTAL \$280,000.00

L. MISCELLANEOUS ITEMS

1. FIELD OFFICE	Type 2	\$13,000.00
2. RIGHT-OF-WAY MARKERS		
	80 Ea @ \$45.00	\$3,600.00
3. NOISE WALLS		
	sf @	\$0.00
4. CONSTRUCTION SEQUENCE		
5. OTHER/SPECIAL ITEMS		
	SUBTOTAL	\$16,600.00

ESTIMATE SUMMARY

RIGHT-OF-WAY	By Locals
REIMBURSABLE UTILITIES	By Locals

CONSTRUCTION COST SUMMARY

CLEARING & GRUBBING	\$200,000.00
EARTHWORK	\$60,000.00
BASE & PAVING	\$670,000.00
DRAINAGE	\$321,000.00
CONCRETE WORK	\$154,000.00
TRAFFIC CONTROL	\$100,000.00
EROSION CONTROL	\$70,000.00
GUARDRAIL	\$0.00
SIGN/STRIP/SIGNAL/LIGHT	\$75,000.00
LANDSCAPING/GRASSING	\$10,000.00
MISCELLANEOUS	\$17,000.00
SUBTOTAL ROADWAY ITEMS	\$1,677,000.00
MAJOR STRUCTURES	\$225,000.00
TOTAL CONSTRUCTION ESTIMATE	\$1,902,000.00
3 YEARS OF INFLATION AT 5%/YR	\$300,000.00
10% E&C	\$220,000.00
TOTAL	\$2,422,000.00