

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-00MS(5) Chatham County
P.I. No. 580560
CWH
OFFICE Preconstruction
DATE July 18, 1995

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:

John Lively
Bobby Mustin
David Studstill
Herman Griffin
Walker Scott
Darrell Elwell
Marion Waters
Paul Liles
Craig Brack

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-OOMS(5) Chatham County OFFICE Preconstruction
P.I. No. 550560 DATE June 21, 1995

FROM Hoyt Lively, Jr., P.E., Director of Preconstruction

TO Wayne Shackelford, Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the widening and reconstruction of SR 204 Spur/Whitfield Avenue from Old Whitfield Avenue to Ferguson Avenue for a total of 3.70 km. The existing roadway consists of 2-3.6 m lanes with rural and urban shoulders. This project is needed to accommodate the future traffic demand on Whitfield Avenue. Accident history for three years within the limits of the proposed project consists of 125 accidents with 34 injuries. The base year traffic (2000) is 12,000 VPD and the design year traffic (2020) is 21,500 VPD. The posted speed and design speed is 70 km/h.

The project will provide 4-3.6 m lanes separated by a 6.1 m raised median with curb and gutter for the entire project length. Sidewalks are proposed for both sides of the roadway from Mistlewood Lane and continues to the end of the project. Bike lanes (1.2 m) are proposed for both sides of the roadway from Harry S. Truman Parkway to Ferguson Avenue. Two existing culverts will be lengthen to accommodate the proposed widening. Traffic will be maintained on the existing roadway during construction.

Environmental concerns include requiring a COE 404 permit; an Environmental Assessment will be prepared; one UST impact; a public hearing will be held; time saving procedures are not appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG. DATE</u>
Constr(Infl&E/C)	\$4,558,000	\$4,087,000	1999
Right-of-way	Local	Local	99-01
Utilities	Local	Local	

Wayne Shackelford

Page 2

June 21, 1995

STP-OOMS(5) Chatham County

This project is in the STIP. I recommend this project concept be approved.

HJL/JDQ/se

Attachment

CONCUR:

Frank Danchetz
Frank Danchetz, P.E., Chief Engineer *see*

APPROVED:

Wayne Shackelford
Wayne Shackelford, Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

RECEIVED

JUN 15 1995

PRECONSTRUCTION

INTERDEPARTMENT CORRESPONDENCE

FILE STP-OOMS(5) CHATHAM OFFICE Atlanta, Georgia
P.I. NO. 550560 DATE JUNE 15, 1995

FROM Bob Mustin, P.E., Project Review Engineer *DTM*

TO C. Wayne Hutto, Assistant Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

The concept report submitted June 14, 1995 by the letter from Walker W. Scott dated May 23, 1995 has been reviewed and is considered satisfactory.

The estimated costs for the project are as follows:

Construction	\$	3,560,000	
Inflation	\$	565,000	
E & C	\$	433,000	
Right of Way	\$	6,420,000	(LGPA?)
Reimbursable Utilities	\$?	(LGPA?)

DTM

c: Walker Scott



**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: STP-OOMS(5)Chatham, Whitfield Ave **OFFICE:** Urban Design
from Old Whitfield Ave to Ferguson Ave.
P.I. 550560

DATE: May 23, 1995

FROM: *Walker W. Scott*
Walker W. Scott, Jr., P.E., State Urban Design Engineer

TO: Frank Danchetz, P.E., Chief Engineer

SUBJECT: PROJECT CONCEPT REPORT

Transmitted herewith for your review and handling is the Project Concept Report for the proposed Whitfield Ave (S.R 204 spur) in Chatham county.

Please take the necessary steps to process this document through the Department's Project Development Process. If you have any questions please call Gerald Ross or Hayden Gellineau at 656-5447.

GMR
WWS:GMR:hrg
Attachments

cc: David Studstill w/attachment
Ron Collins w/attachments
Mitch Fowler, w/attachment
Paul Liles w/attachments
Marion Waters w/attachments
John Lively w/attachments
Wayne Hutto w/attachments

DEPARTMENT OF TRANSPORTATION

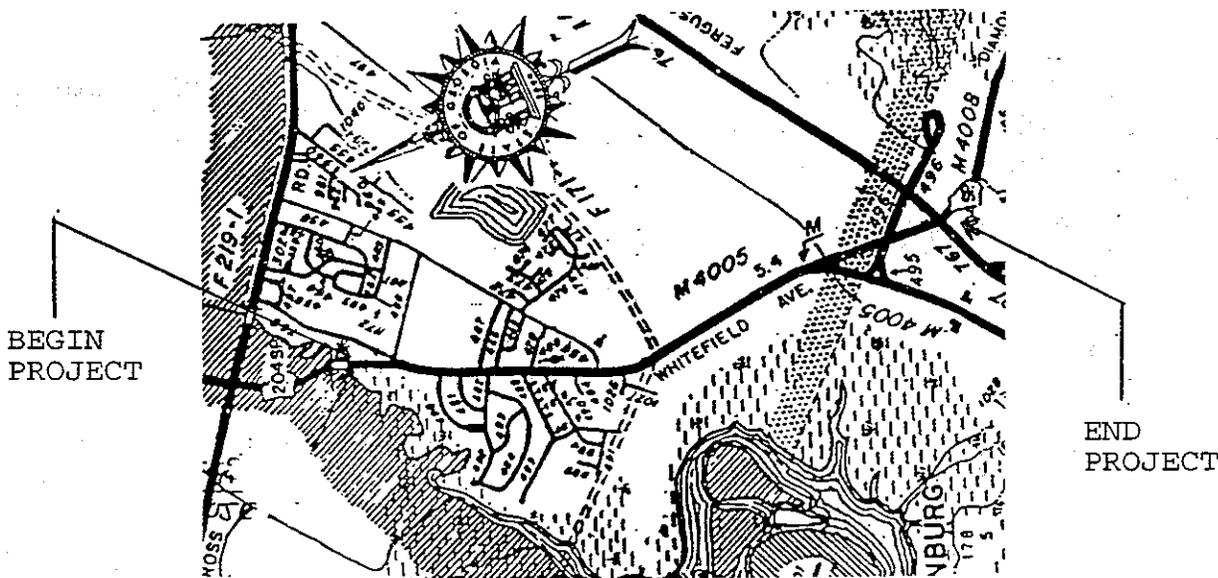
STATE OF GEORGIA

PROJECT CONCEPT REPORT

STP-00MS(5)

WHITFIELD AVE FROM OLD WHITFIELD AVE TO
FERGUSON AVE

Federal Route No.: NONE
State Route No.: SR 204 SPUR
GaDOT P.I. No.: 550560



Date of Report: MARCH 9, 1995

RECOMMENDATION FOR APPROVAL

June 12, 1995

Date

Walker W. Coffey

State Urban Design Engineer

Date

State Environmental Engineer

Date

State Traffic Operations Engineer

Date

District Engineer

Date

State Bridge & Structural Design Engineer

DATE: JUNE 8, 1995

[WHITPCR1.DOC]

PROJECT CONCEPT REPORT

PROJECT NO.: STP-00MS(5)

P.I. NO.: 550560

ROUTE NO.: SR 204 SPUR

LOCATION: SR 204 SPUR Whitfield Ave from Old Whitfield Ave to Ferguson Ave / Savannah.

TRAFFIC:	CURRENT	ADT	12000	(YR 2000)
	PROJECTED	ADT	21500	(YR 2020)

EXISTING TYPICAL SECTION: The existing typical section is a two lane Urban/Rural facility approximatly 7.2 m (24 FT) in width with curb and gutter.

EXISTING MAJOR STRUCTURES: There are two existing culverts crossing Whitfield Ave, approximatly 640 m (2100 FT) North of the intersection of Whitfield Ave and Ferguson Ave.

ACCIDENT HISTORY: The following is a summary of accident data available for the facility.

	1991	1992	1993
TOTAL ACCIDENTS:	38	49	38
TOTAL INJURIES:	13	15	6
TOTAL FATALITIES:	0	0	0

	1991	1992	1993
ACCIDENTS RATE:	382	363	350
INJURIES RATE:	130.7	111	55.3
FATALITIES RATE:	0.00	0.00	0.00

(STATE WIDE AVE FOR URBAN SECTIONS)

	1991	1992	1993
ACCIDENTS RATE:	492	439	540
INJURIES RATE:	206	185	233
FATALITIES RATE:	1.44	1.11	1.62

The accident rates and injury shown are above the statewide average for an Urban section.

STATEMENT OF NEED AND PURPOSE: see attachments

PROJECT CONCEPT

LENGTH: Approximately 3.7 km (2.3 miles) beginning just North of Old Whitfield Ave and ends at the intersection of Whitfield Ave and Ferguson Ave.

LOCATION: The project is located in Chatham County, Georgia.

ROADWAY CLASSIFICATIONS:

PDP CLASS - Major Existing
FUNCTIONAL CLASS - Urban Minor Arterial

DESIGN CRITERIA:

MIN RADIUS - R(min) =215 m (MAX DEG OF CURVE - 8 DEG)
MAX GRADE - 6 %
DESIGN SPEED - 70 km/h (45 MPH)

PROPOSED TYPICAL SECTION: The proposed Urban/ Rural typical section consist of a four 3.6m (12 FT) lane facility including 1.2m (4 FT) bicycle lanes in both directions with a 6.1 m (20 FT) raised median with curb and gutter.

MAJOR STRUCTURES: There are two culverts crossing Whitfield Ave. The concept requires the culverts to be extended.

TYPE ACCESS: Regulated

TRAFFIC CONTROL DURING CONSTRUCTION: Traffic is to be maintained during construction.

ESTIMATED COST:

ITEM	STP-00MS(5)
R/W	\$ By Local
UTILITIES	\$ By Locals
SUBTOTAL	\$ 0,000,000
CONSTRUCTION	\$ 3,763,737
3 YEARS OF INFLATION @ 5% PER YEAR	\$ 564,561
10% E&C	\$ 432,820
TOTAL CONSTRUCTION	\$ 4,761,127

PERMITS REQUIRED: NONE. ?

LEVEL OF ENVIRONMENTAL ANALYSIS: Environmental assessment.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-00MS(5), Chatham County
P. I. No. 550560
Whitfield Avenue from Ferguson Ave.
to McWhorter Drive

OFFICE Atlanta, Georgia

DATE June 9, 1995

FROM Gerald Ross

TO Files

SUBJECT Minutes from Concept Meeting

It was determined that the bike route does not extend north of HST intersection. The Office of Utilities stated that there were several utility companies along the roadway which are:

1. SEPCO
2. Atlanta Gas
3. City of Savannah Water & Sewer
4. Southern Bell
5. CableVision of Savannah

Al Black requested a copy of the concept layout. Gerald said it would be about two weeks.

The Office of Environmental/Location stated that a nationwide 404 permit will be needed.

Al Black stated that the school had revised their driveway and he would send Urban Design a copy of the site plan.

Walker stated to use 500 VPD for right turn lane requirement.

Al Black stated several parcels had been purchased along the HST alignment that crosses Whitfield.

The proposed traffic was questioned. Planning stated that the model was being recalibrated and new traffic would be sent as soon as possible.

Bill Harrington stated that the proposed interim intersection projects are no longer needed since the Olympic site has been moved.

A LGPA for the county to do utilities and right of way is needed. A possible date for the public hearing is January/February 1996.

There is a proposed Kroger and a gas regulator station at the intersection of Ferguson and Whitfield.

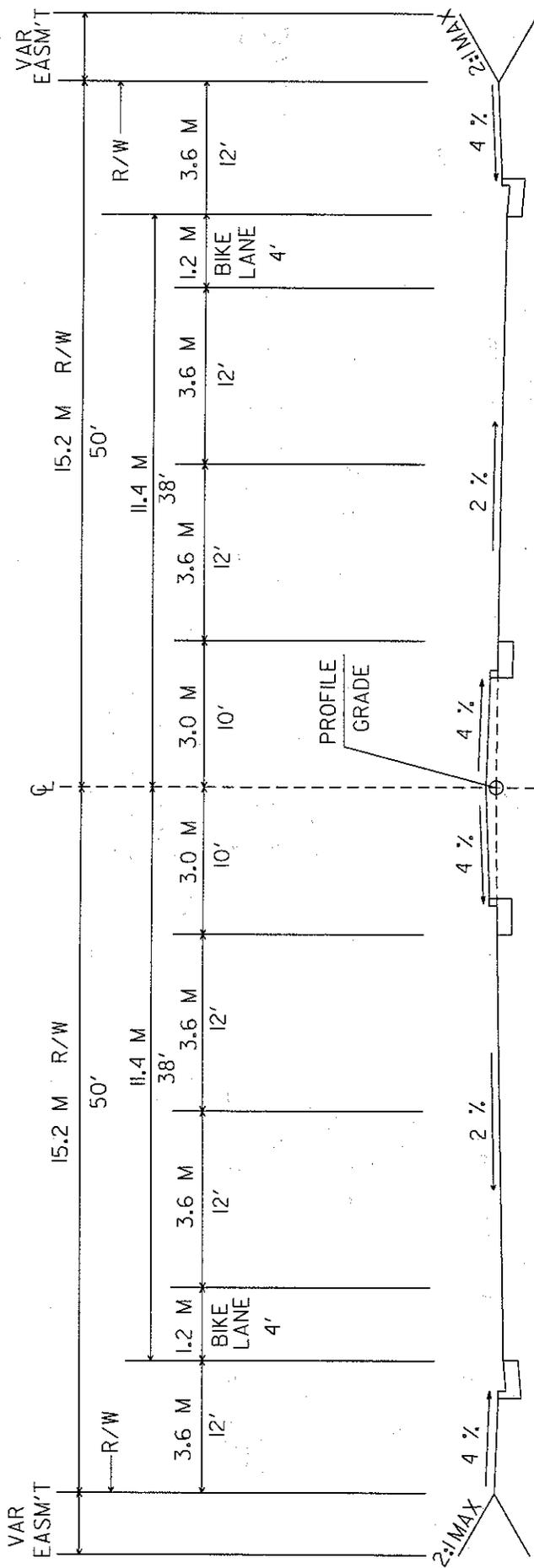
To Files
June 9, 1995
Page 2

Gerald Ross stated that sidewalks will be on both sides of the roadway.

GMR:mj

RECORD OF ATTENDEES

<u>NAME</u>	<u>DEPARTMENT</u>	<u>PHONE #</u>
1) Gerald Ross	GA DOT-Urban Design	(404)-656-5436
2) Walker Scott	GA DOT-Urban Design	(404)-656-5436
3) Allen Black	Chatham County	(912)-652-7800
4) Chris Simmons	GA DOT-Planning	(404)-656-5726
5) Dannis Smith	GA DOT-Utilities	(912)-427-5754
6) Keith Stewart	GA DOT-Road Design	(912)-427-5794
7) Allen Troha	GA DOT-Traff Operations	(912)-427-5703
8) Michelle Cain	GA DOT-Env/Location	(404)-699-4441
9) Bo Beasley	Savannah Gas Company	(912)-234-8220
10) George Fidler	Savannah City Engineer	(912)-657-6510
11) Rusty Fredrick	Savannah Elec.Power Co.	(912)-944-3705
12) Andy Anderson	SEPCO	(912)-944-3710



S.R. 204/WHITFIELD AVE
 WIDENING FROM OLD WHITFIELD AVE TO FERGUSON AVE

PROJECT STP-0000MS(5)
 P1550560

TYPICAL SECTION
 (WITH BIKE LANES)



**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

SCOTT _____
ROCHAN Gerald
CHAMBERS _____
PALLAD _____
WHITEHIST _____
GROUPS _____
FILE _____

FILE STP-00MS(5), Chatham
P.I. 550560

OFFICE Planning

DATE 02/24/95

FROM *REP* Toni Dunagan, State Transportation Planning Administrator

TO Walker Scott, Jr., P.E., State Urban Design Engineer
Attn.: Gerald Ross

SUBJECT Need and Purpose Statement - Chatham County
STP-00MS(5), P.I. 550560

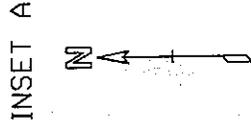
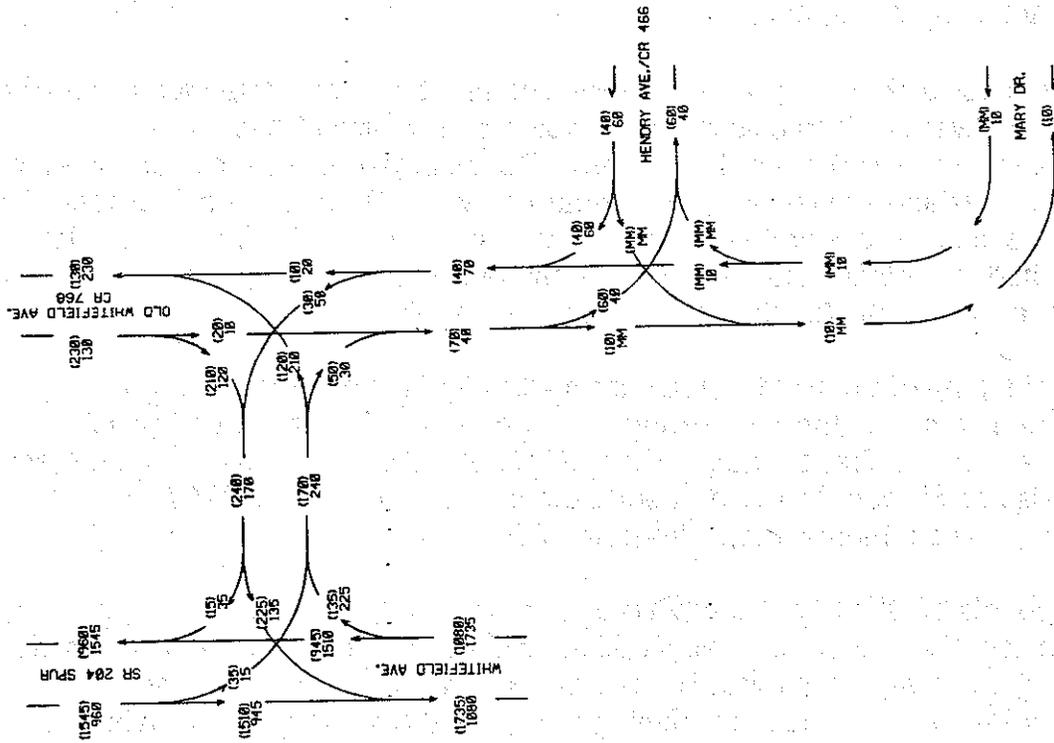
This project is needed to satisfactorily accommodate anticipated future traffic on Whitfield Avenue. The existing traffic volume on Whitfield Avenue is approximately 20,000 vehicles per day. Development is expected to continue on Skidaway Island as well as in the Montgomery and Burnside Island areas. This development will generate corresponding increases in traffic volumes. It is projected that traffic volumes on the most heavily traveled sections of Whitfield Avenue will exceed 30,000 vehicles per day by 2010.

The widening of Whitfield Avenue from Old Whitfield Avenue to Ferguson Avenue is a part of the Long-Range Transportation Plan adopted by the Chatham Urban Transportation Study (CUTS) Policy Committee. The project has also been identified as a needed project in the CUTS FY95-97 Transportation Improvement Program (TIP).

The people of Chatham County voted in favor of (66% for and 34% against) an extension of a one percent local option sales tax on June 15, 1993, to pay the local share of selected road improvements. The list of selected road improvements included the widening of Whitfield Avenue from Old Whitfield Avenue to Ferguson Avenue.

Additional note: Whitfield Avenue from the proposed location of Truman Parkway Phase IV to Ferguson Avenue has been identified in the Chatham-Savannah Bikeway Plan as a high priority bikeway corridor.

TD:CNS

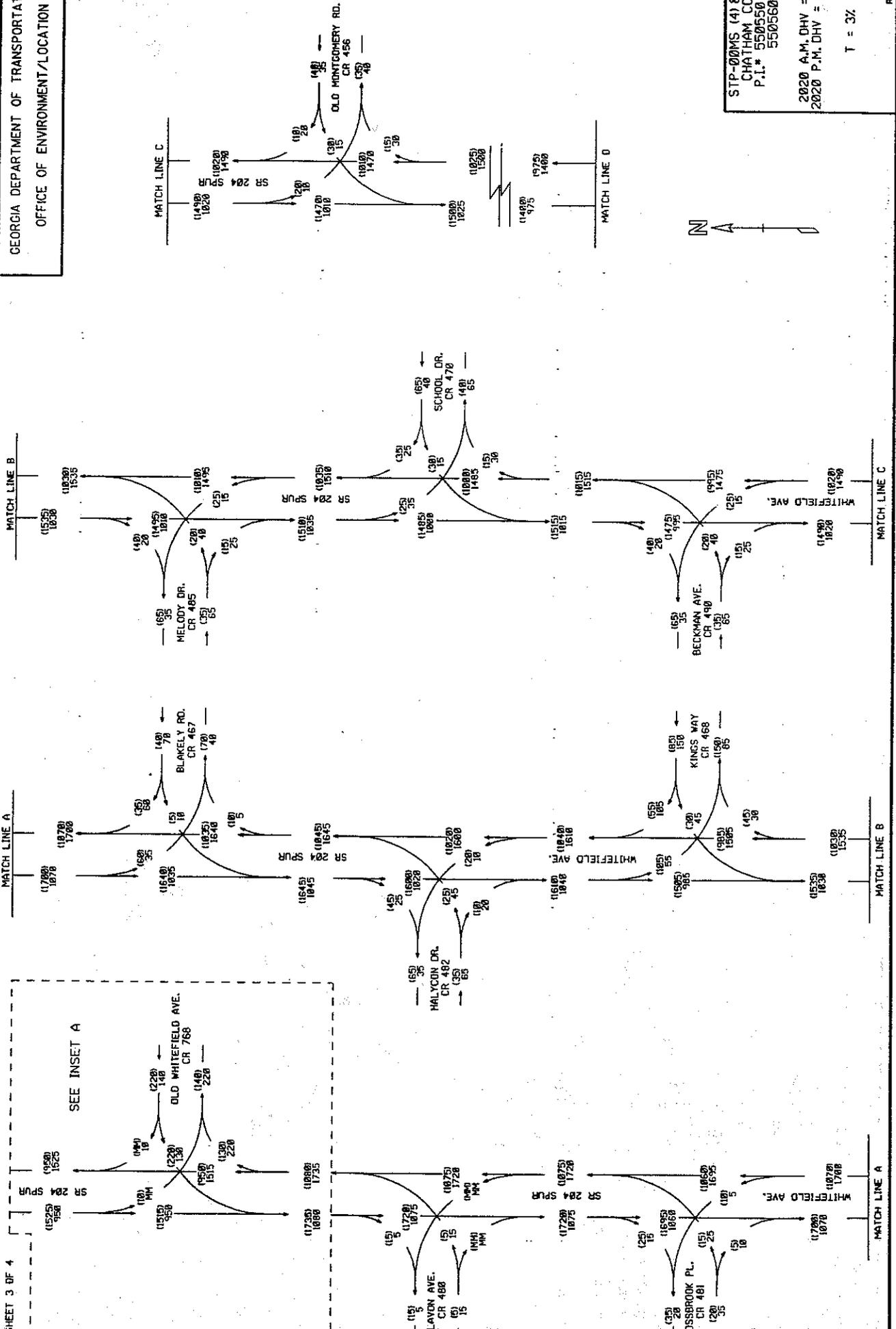


STP-00MS (4) & (5)
CHATHAM COUNTY
P.I.# 550550 &
550560
2020 A.M. DHV = 000
2020 P.M. DHV = 000
T = 3%

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF ENVIRONMENT/LOCATION

SHEET 3 OF 4

SEE INSET A



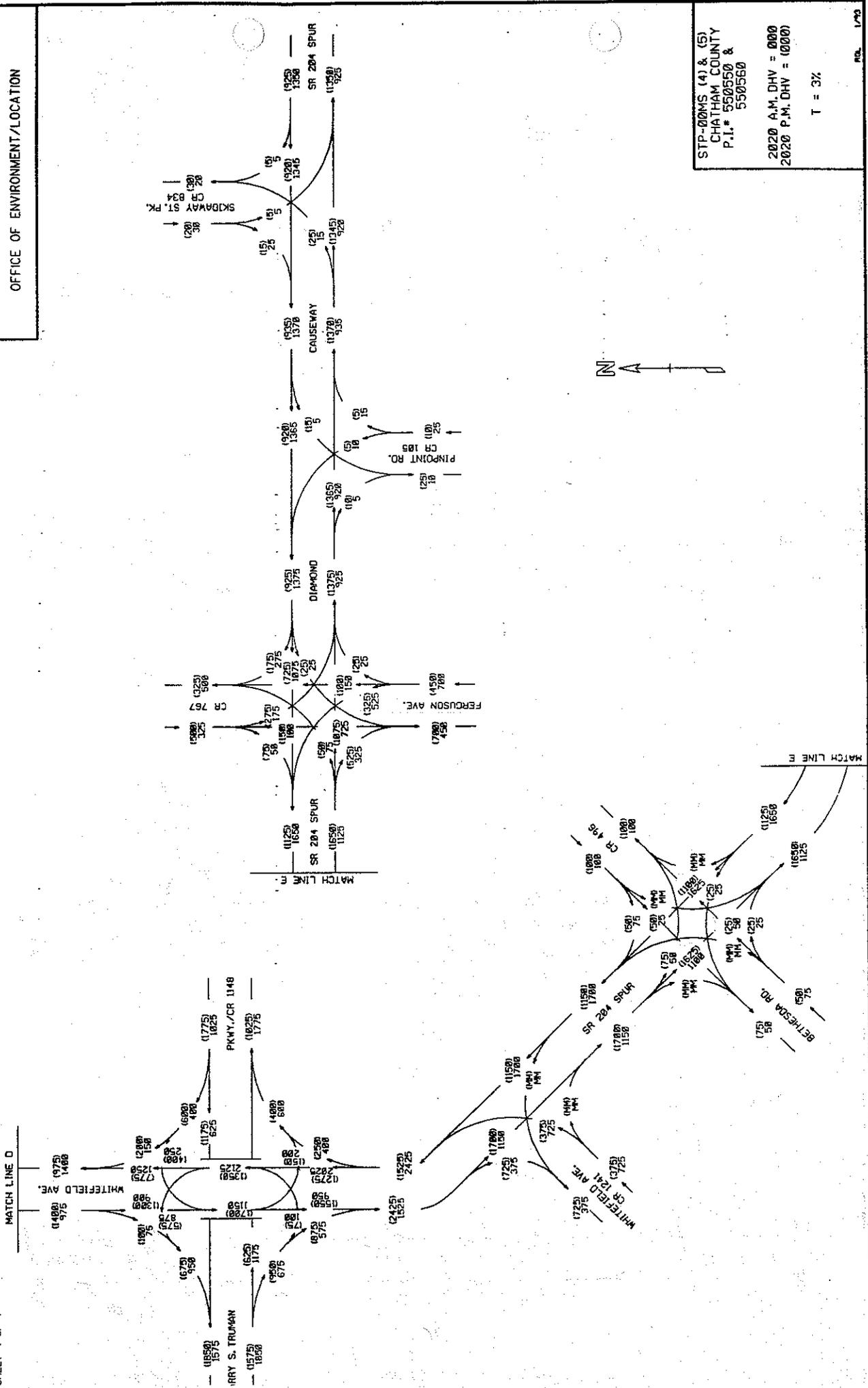
STP-000MS (4) & (5)
CHATHAM COUNTY
P.L.# 550550 &
550560

2020 A.M. DHV = 000
2020 P.M. DHV = 0000

T = 3%

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF ENVIRONMENT/LOCATION

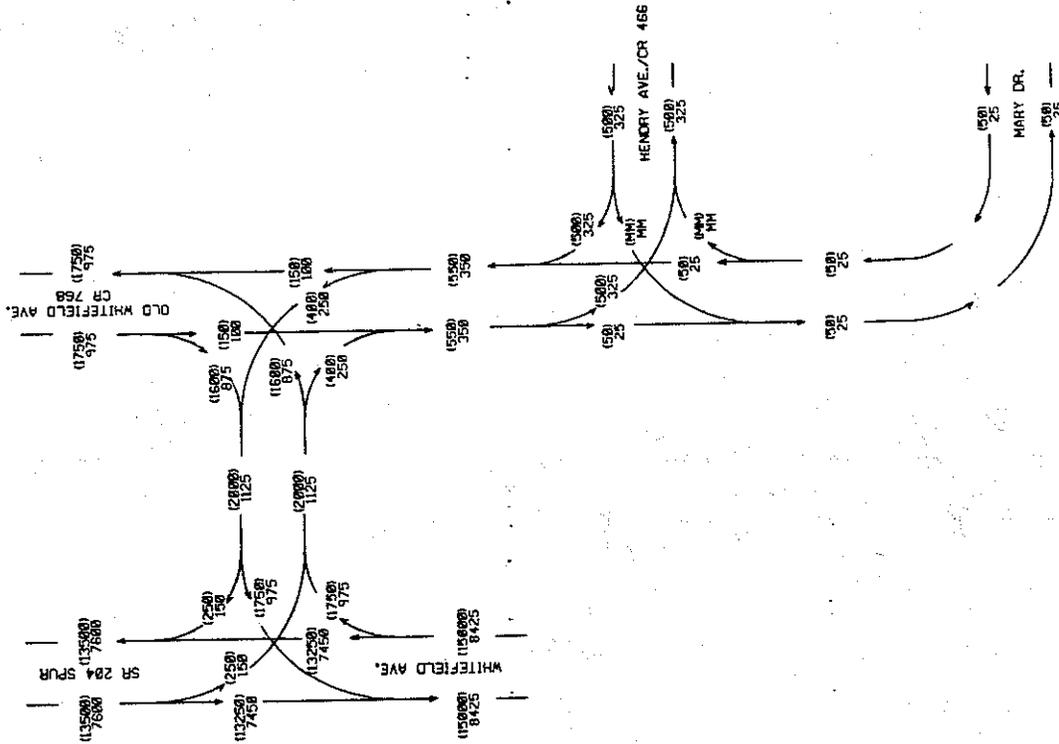
SHEET 4 OF 4



STP-00MS (4) & (5)
CHATHAM COUNTY
P.I.# 550550 &
550550
2020 A.M. DHV = 000
2020 P.M. DHV = 000
T = 3%

REL. 1/20

INSET A

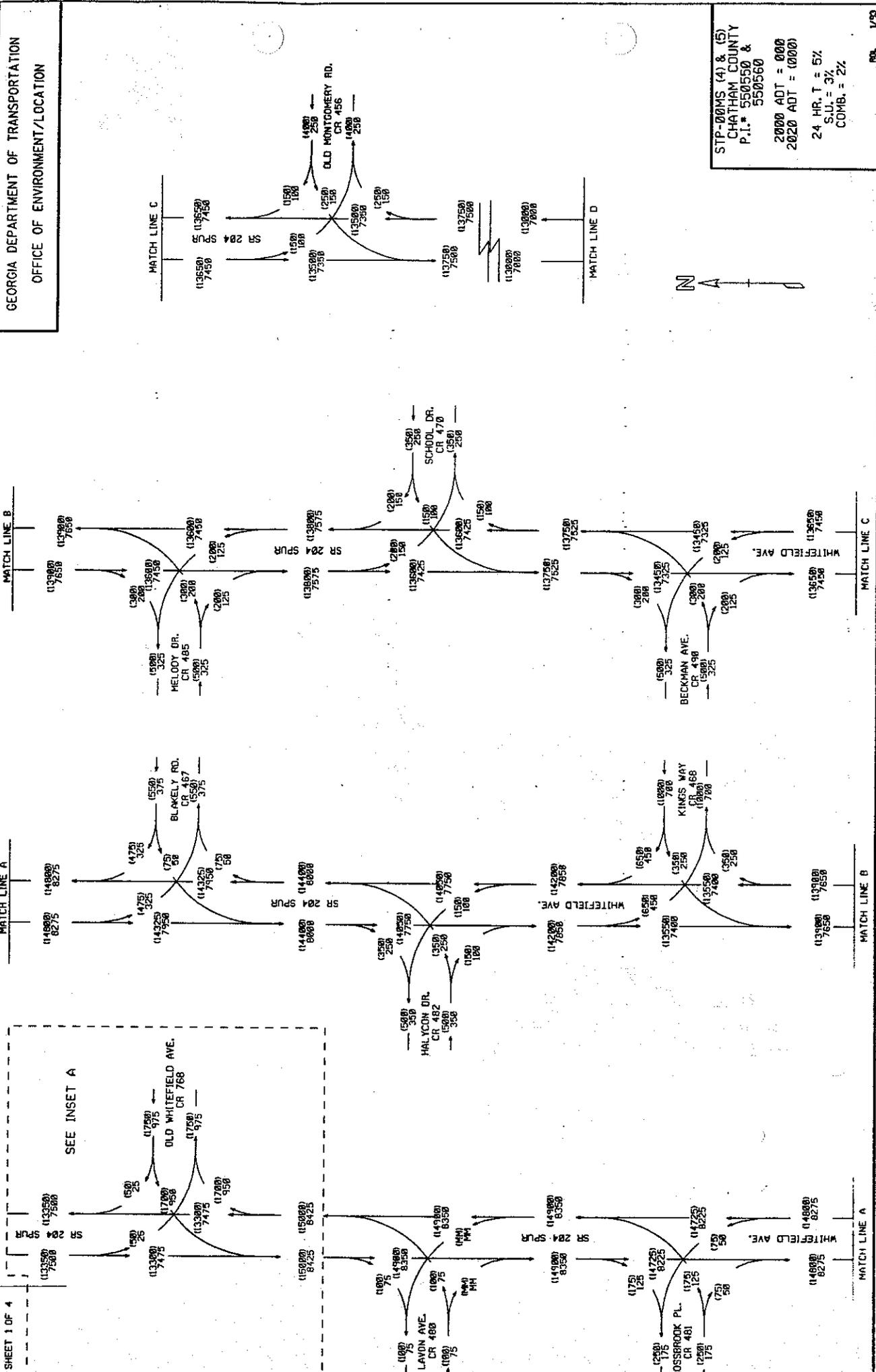


STP-00MS (4) & (5)
CHATHAM COUNTY
P.I.# 550550 &
550560
2000 ADT = 000
2020 ADT = 000
24 HR. T = 5%
S.U. = 3%
COMB. = 2%

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF ENVIRONMENT/LOCATION

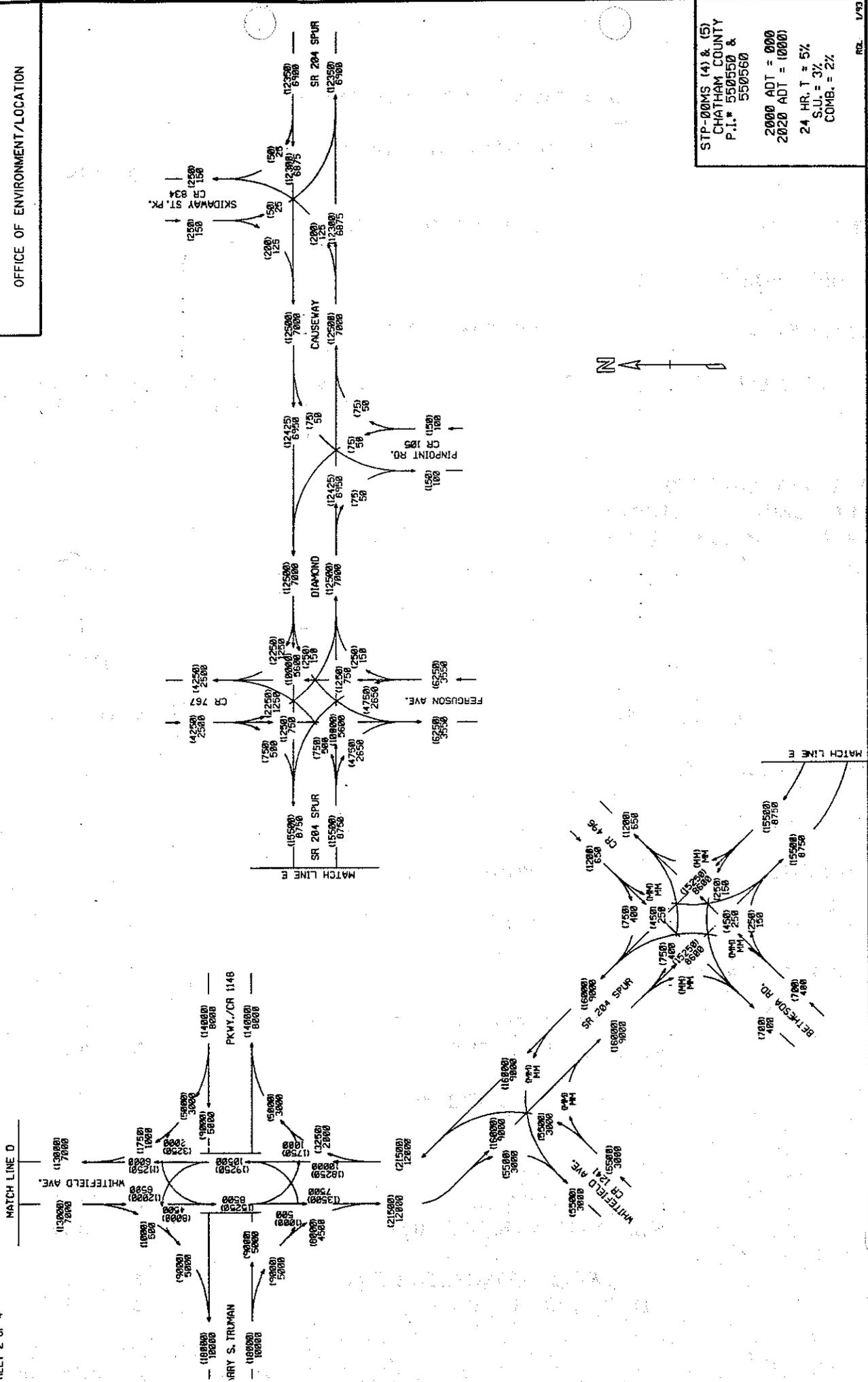
SHEET 1 OF 4

SEE INSET A



STP-00MS (4) & (5)
CHATHAM COUNTY
P.I.# 550550 &
550550
2000 ADT = 000
2020 ADT = 0000
24 HR. T = 5%
S.U. = 3%
COMB. = 2%

RD. 1790



STP-00MS (4) & (5)
CHATHAM COUNTY
P.I.# 550550 &
550560
2000 ADT = 000
2020 ADT = 1000
24 HR. T = 5%
S.U. = 3%
COMB. = 2%

PRELIMINARY COST ESTIMATE

OFFICE OF URBAN DESIGN

[WHITCOST.WPD]

DATE: JAN. 03, 1994

PREPARED BY: HRG

PROJECT NO.: STP-00MS(5)

P.I. NO.: 550560

MILEAGE: 2.3 miles

PROJECT DESCRIPTION/CONCEPT:

S.R. 204 SPUR, WHITFIELD AVE FROM
WHITFIELD AVE TO FERGUSON AVE /
SAVANNAH.

PROGRAMMING PROCESS

CONCEPT DEVELOPMENT

DURING PROJECT DEVELOPMENT

PROJECT COSTS

RIGHT OF WAY: \$ 0,000,000

REIMBURSABLE UTILITIES: \$ 0,000,000

CONSTRUCTION COSTS:

A. MAJOR STRUCTURES

1. BRIDGES: NONE

2. RETAINING WALLS: NONE

3. BOX CULVERTS:

6' * 6'

BOX: CONCRETE 0.690 C.Y. @ 260.44 \$ 16,173

STEEL 113.81 LB/FT @ 0.50 \$ 5,121

WINGWALL: CONCRETE 28.09 C.Y. @ 260.44 \$ 7,315

STEEL 1840 LB @ 0.50 \$ 920

6' * 6'

BOX: CONCRETE 0.690 C.Y. @ 260.44 \$ 16,173

STEEL 113.81 LB/FT @ 0.50 \$ 5,121

WINGWALL: CONCRETE 28.09 C.Y. @ 260.44 \$ 7,315

STEEL 1840 LB @ 0.50 \$ 920

6' * 6'		
BOX: CONCRETE 0.690 C.Y. @ 260.44		\$ 16,173
STEEL 113.81 LB/FT @ 0.50		\$ 5,121
WINGWALL: CONCRETE 28.09 C.Y. @ 260.44		\$ 7,315
STEEL 1840 LB @ 0.50		\$ 920

SUBTOTAL \$ 88,587

B. GRADING & EARTHWORK

1. BORROW:	50,000 C.Y. @ \$4.00	\$ 200,000
2. IN-PLACE EMBANKMENT:	NONE	\$
3. UNCLASSIFIED EXCAVATION:	15,000 CY @ \$3.15	\$ 47,250

SUBTOTAL \$ 247,250

C. DRAINAGE:

1. LONGITUDINAL	24,000 L.F. 18 in. @ \$22.00	\$ 528,000
2. CROSSDRAIN PIPES	1,000 L.F. 24 in. @ \$25.00	\$ 25,000
3. FLARED END SECTIONS	1 FES 15 in. @ \$275.00	\$ 1,375
	1 FES 30 in. @ \$400.00	\$ 400
4. CATCH BASINS/DROP INLETS:	120 @ \$1300.00 EA	\$ 104,000

5. OTHER ITEMS: NONE

SUBTOTAL \$ 658,775

D. BASE & PAVING

1. ASPHALT PAVING

	4,000 Tons of "E" @ \$35.00	\$ 140,000
	5,500 Tons of "B" @ \$35.00	\$ 192,500
	10,500 Tons of Base @ \$35.00	\$ 367,500
	4,000 Gals of Tack @ \$1.00	\$ 4,000

2. GRADED AGGREGATE BASE

21,500 Tons of GAB @ \$12.00 \$ 258,000
SUBTOTAL \$ 962,000

E. CONCRETE WORK

1. APPROACH SLABS: NONE \$ 0,000,000
2. SIDE BARRIER (Permanent): NONE \$ 0,000,000
3. CURB & GUTTER: 48,000 L.F. @ \$9.00 \$ 432,000
4. VALLEY GUTTER: NONE \$ 0,000,000
5. SIDEWALK: (4' sidewalk) 5,500 SY @ \$15.00 \$ 82,500
6. DITCH PAVING: NONE \$ 0,000,000
SUBTOTAL \$ 514,500

F. SIGNS & STRIPING: 2.4 miles \$100,000 **SUBTOTAL \$ 240,000**

G. TRAFFIC SIGNALS: 5 Signals @ \$40,000 **SUBTOTAL \$ 200,000**

H. GUARDRAIL

500 L.F. Type W @ \$11.00 \$ 5,500
200 L.F. Type T @ \$37.00 \$ 7,400
3 Type 9 Anchors @ \$990.00 \$ 2,550
3 Type 1 Anchors @ \$375.00 \$ 1,125
SUBTOTAL \$ 16,575

I. TRAFFIC CONTROL

2.3 miles @ \$155,000 \$ 356,500
PRECAST CSB: NONE \$ 0,000,000
DETOUR BRIDGES: NONE \$ 0,000,000
DETOUR EARTHWORK: NONE \$ 0,000,000

DETOUR PAVING: NONE \$ 0,000,000

SUBTOTAL \$ 356,500

J. CLEARING & GRUBBING

39 Acres @ \$155,000

SUBTOTAL \$ 54,600

K. PERMANENT EROSION CONTROL

Grassing / Landscaping \$ 100,000

Stone Dumped Rip Rap, Tp 3, 24": 600 S.Y. @ \$34 \$ 20,400

SUBTOTAL \$ 120,400

L. TEMPORARY EROSION CONTROL

2.3 miles @ \$50,000

SUBTOTAL \$ 115,000

M. MISCELLANEOUS ITEMS

1. FIELD ENGINEER'S OFFICE: TYPE III \$ 30,000

2. FENCING: 15,000 L.F. @ \$6.00 \$ 90,000

3. RIGHT OF WAY MARKERS: 50 Each @ \$41.00 \$ 2,050

4. LAKE RESTORATION: NONE

SUBTOTAL \$ 122,050

ESTIMATE SUMMARY

RIGHT OF WAY	\$ 6,420,000
REIMBURSABLE UTILITIES	\$ 0,000,000

CONSTRUCTION COST SUMMARY

GRADING & EARTHWORK	\$ 247,250
DRAINAGE	\$ 658,775
BASE & PAVING	\$ 962,000
CONCRETE WORK	\$ 514,500
SIGNS & STRIPING	\$ 240,000
TRAFFIC SIGNALS	\$ 200,000
GUARDRAIL	\$ 16,575
TRAFFIC CONTROL	\$ 356,500
CLEARING & GRUBBING	\$ 54,600
PERMANENT EROSION CONTROL	\$ 120,400
TEMPORARY EROSION CONTROL	\$ 115,000
MISCELLANEOUS ITEMS	\$ 122,050
SUBTOTAL ROADWAY ITEMS	\$ 3,560,400
MAJOR STRUCTURES	\$ 88,587
TOTAL CONSTRUCTION ESTIMATE	\$ 3,648,987
3 YEARS OF INFLATION @ 5% PER YEAR	\$ 564,561
10% E&C	\$ 432,820
TOTAL	\$ 4,761,127

hrq

DEPARTMENT OF TRANSPORTATION

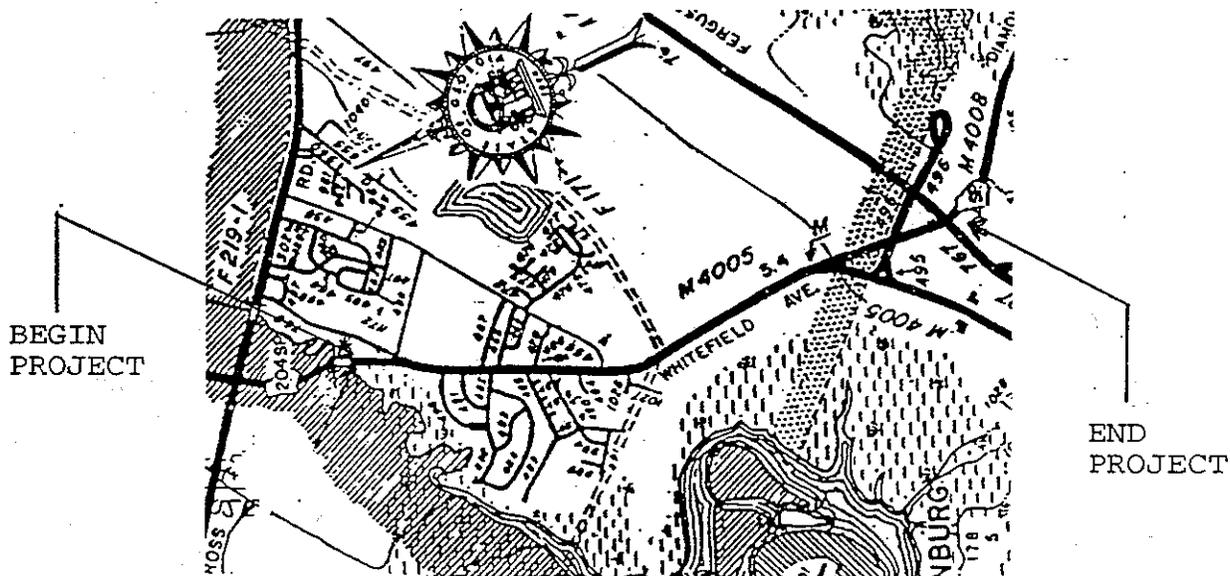
STATE OF GEORGIA

PROJECT CONCEPT REPORT

STP-00MS(5)

WHITFIELD AVE FROM OLD WHITFIELD AVE TO
FERGUSON AVE

Federal Route No.: NONE
State Route No.: SR 204 SPUR
GaDOT P.I. No.: 550560



Date of Report: MARCH 9, 1995

RECOMMENDATION FOR APPROVAL

June 12, 1995

Date

Walker Wood

State Urban Design Engineer

Date

State Environmental Engineer

Date

State Traffic Operations Engineer

Date

District Engineer

June 19, 1995

Date

Paul V. Telle Jr.

State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

RECEIVED

JUN 22 1995

PRECONSTRUCTION

INTERDEPARTMENT CORRESPONDENCE

FILE STP-00MS(5) Chatham County
P.I. No. 550560

OFFICE Traffic Operations
Atlanta, Georgia

DATE June 21, 1995

FROM *ABR for*
Marion G. Waters, III, P.E., State Traffic Operations Engineer

TO Wayne Hutto, Assistant Director of Preconstruction

SUBJECT Project Concept Report

We have reviewed the concept report on the above project for widening SR 204 Spur / Whitfield Avenue from Old Whitfield Avenue to Ferguson Avenue in Savannah.

The existing typical section is a two lane urban / rural roadway approximately 7.2 m (24 ft.).

The proposed typical section consists of an urban / rural section, two 3.6 m (12 ft.) lanes in each direction, one 1.2 m (4 ft.) bicycle lane in each direction, 6.1 m (20 ft.) raised median and sidewalks on both sides.

We request that one, four inch (100 mm) conduit, with innerduct be installed in one side of the mainline outside shoulder for interconnection of traffic signals as part of this project. The conduit would be used for Advanced Transportation Management System Components in this area. Our Design Office at the West Annex, can provide details and cost estimates for inclusion in the project.

We believe the concept provides for safety and operational capacity. Therefore, approval is recommended.

MGW:LEO

Attachment (signature page)

cc: David Studstill
Walker W. Scott, Jr.
Bob Mustin, w / Attachment
Sam Zeigler
General Files

