

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: STP-0004-00(454) Lincoln County
P.I. No.: 0004454
SR 47 @ Lillian Sims Road & Elam Heights
Safety/Intersection Improvements

OFFICE: Traffic Operations

DATE: July 26, 2002

Phillip M. Allen CA#
FROM: Phillip M. Allen, State Traffic Safety & Design Engineer

TO: Mike Thomas, District Engineer, Tennille
Attn: David Griffith

SUBJECT: APPROVED CONCEPT REPORT

Attached is a copy of the approved concept report on the above listed project for your use and further handling.

This project consists of installing curb and gutter, with five foot sidewalk and pedestrian facilities on SR 47. CS 514 Elam Heights will be realigned 18 feet to the west to form a common point intersection with Lillian Sims Avenue, curb and gutter, five foot sidewalk and pedestrian facilities. New 75-foot radii will be constructed on CS 514/Lillian Sims Avenue, with curb and gutter, five foot sidewalk and pedestrian facilities. A stop and go traffic signal is not warranted.

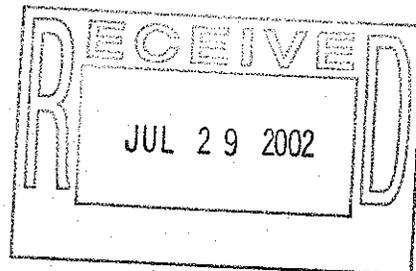
By copy of this letter, this office is requesting for this project be assigned to Chuck Hasty as Project Manager. The design of this project will be handled under our Consultant Design Contract, STP-0001-00(853).

Should you have any questions, please contact Ken Werho of this office at 404-635-8144.

PMA:kms

Attachments

cc: Frank Danchetz
Tom Turner, w/attach.
David Mulling, w/attach.
Wayne Hutto, w/attach.
Herman Griffin, w/attach.
Harvey Keepler, w/attach.
Roger Price, w/attach.
General Files



**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

PROJECT CONCEPT REPORT

**LINCOLN COUNTY
CITY OF LINCOLNTON**

STP-0004-00(454)

FEDERAL ROUTE NO: F 76- 1
STATE ROUTE NO: 47
GADOT P.I. NO: 0004454

**SEE ATTACHED
LOCATION SKETCH**

Date of Report: June 5, 2002

RECOMMENDED: 6-10-02
DATE

Phillip M. Allen
STATE TRAFFIC SAFETY AND DESIGN ENGINEER

RECOMMENDED: 6-13-02
DATE

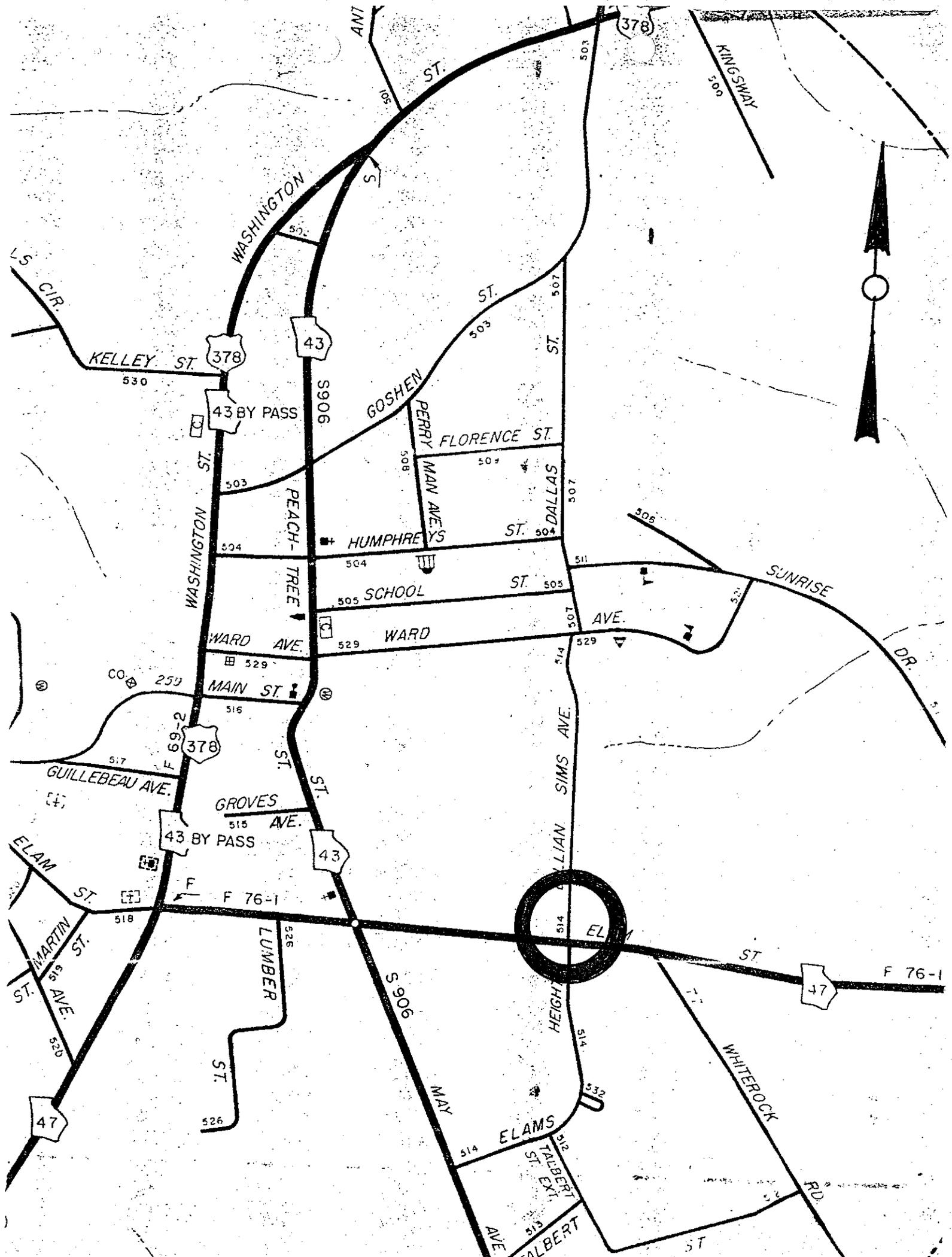
Phil [Signature]
DISTRICT ENGINEER

RECOMMENDED: 6/21/02
DATE

[Signature]
CHIEF ENGINEER

APPROVED: 6/24/02
DATE

[Signature]
COMMISSIONER



June 5, 2002

PROJECT CONCEPT REPORT

P.I. No.: STP-0004-00(454)

Project No.: 0004454 City of Lincolnton, Lincoln County

Route No.: SR 47 @ CS 514/Elam Heights and Lillian Sims Avenue

Location: The intersection of SR 47 with CS 514/Elam Heights and Lillian Sims Avenue is located within the city limits of Lincolnton approximately 1.25 miles north of the southern City Limits of Lincolnton and 0.66 miles west of SR 43/US 378.

Description: SR 47: Installation of 30" curb and gutter, with five foot sidewalk and pedestrian facilities will be installed.

CS 514/Elam Heights: Will be realigned 18 feet to the west to form a common point intersection with Lillian Sims Avenue. Curb and gutter, five foot sidewalk and pedestrian facilities will be installed.

CS 514/Lillian Sims Avenue: Installation of 30" curb and gutter, with five foot sidewalk and Pedestrian facilities will be installed. Construct new 75-foot radii on both sides of roadway.

Traffic – Current ADT: SR 47 ----- 4,100 (1999 ADT)
CS 514/Elam Heights and Lillian Sims Avenue ----- 740 (1999 ADT)

Existing Typical: SR 47: Two 11-foot travel lanes, one in each direction, with three-foot grassed shoulders.

CS 514/Elam Heights: Two 10-foot travel lanes, one in each direction, with three-foot grassed shoulders.

CS 514/Lillian Sims Avenue: One 14-foot travel lane on the eastbound side and one 27-foot travel lane on the eastbound side, with three-foot grassed shoulders

Existing Right of Way: SR 47 ----- 100' (Estimated)
CS 514/Elam Heights and Lillian Sims Avenue ----- 60' (Estimated)

Existing Traffic Control: SR 47: Is a through movement.

CS 514/Elam Heights and Lillian Sims Avenue: Elam Heights is controlled by a stop sign with stop bar.
Lillian Sims is controlled by double indicated stop signs with stop bar.

Existing Major Structures: None.

Statement of Need & Purpose: The purpose for this project is to improve the safety and operation of the intersection of SR 47 with CS 514/Elam Heights and Lillian Sims Avenue in the City of Lincolnton. State route 47 is a minor arterial that connects the City of Lincolnton and the Appling community. Elam Heights and Lillian Sims Avenue are local city streets. Lincoln County High School is located north of SR 47 on Lillian Sims Avenue. An analysis of the accident history at this intersection revealed four accidents from the year 1998 to year 2000, with two being right-angle collisions, one left-angle collision, and one rear-end collision. Therefore, it is recommended to realign Elam Heights with Lillian Sims Avenue to form a common point intersection. With the increase of traffic volumes and the close proximity of Lincoln County High School to the intersection, these improvements are needed. Realigning this intersection will improve the operational efficiency of the intersection.

Length: 0.11 miles

<u>Termini:</u>	- SR 47 - - CR 514 -	
<u>From M.P.:</u>	5.65	0.35
<u>To M.P.:</u>	5.69	0.28

PDP Class: Minor Existing

<u>Functional Class:</u>	SR 47 -----	Minor Arterial
	CS 514/Elam Heights and Lillian Sims Avenue -----	Local Street

Max Degree of Curve: +/- 1.0 Degrees **Max Grades:** - 3.3 %

<u>Design Speed:</u>	SR 47 -----	45 mph
	CS 514/Elam Heights and Lillian Sims Avenue -----	35 mph

Proposed Typical Section: SR 47: Installation of 30" curb and gutter, with five foot sidewalk on both sides of roadway.

CS 514/Elam Heights: Two 12-foot travel lanes, one in each direction, with 30" curb and gutter and a five foot sidewalk on both sides of roadway.

CS 514/Lillian Sims Ave: 2-12 ft. travel lanes, one in each direction, with 30" curb and gutter and a five foot sidewalk on both sides of roadway. Construct radii to 75 feet on both sides of roadway.

Proposed major structures: None.

Type Access: By Permit.

Traffic Control During Construction: Existing traffic will be maintained during construction.

Right-of-Way Requirement: Georgia Dept of Transportation shall be responsible for the acquisition of all required rights of way for this project.

Utilities: Georgia Dept of Transportation shall be responsible for all public and privately owned utility adjustments for this project.

Estimated Cost:

<u>Item</u>	<u>Total Amount</u>	
	<u>FEDERAL/STATE</u>	<u>LOCAL</u>
R/W -----	\$ 1,900.00	0
Utilities -----	\$ 28,000.00	46,840.00
Estimated LGPA Total -----	\$ 29,900.00	46,840.00
Construction -----	\$ 102,581.00	
Traffic Signal -----	\$ 0	
Railroad Equipment -----	\$ 0	
E & C 10% -----	\$ 10,258.00	
Total Construction -----	\$ 112,839.00	

Permits Required: None

Level of Environmental Analysis: Categorical Exclusion.

Level of Public Involvement: None.

Time Saving Procedures Appropriate: Yes (X) No ()

Design Variances Required: None.

Alternatives Considered: None.

Comments:

Prepared By:

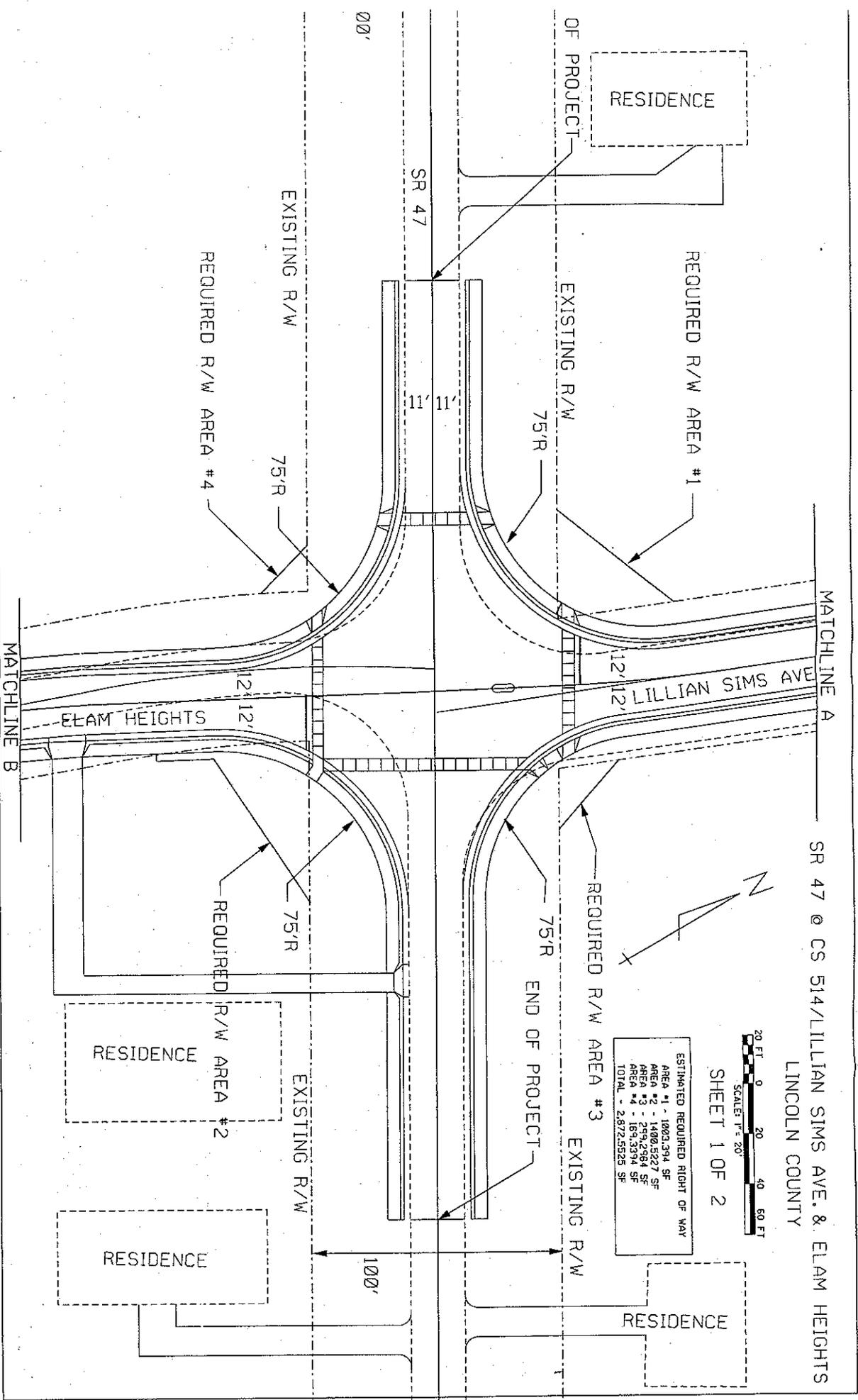
Kevin M. Stefanik

SR 47 @ CS 514/LILLIAN SIMS AVE. & ELAM HEIGHTS
LINCOLN COUNTY

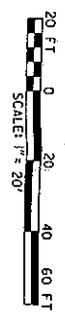
SHEET 1 OF 2



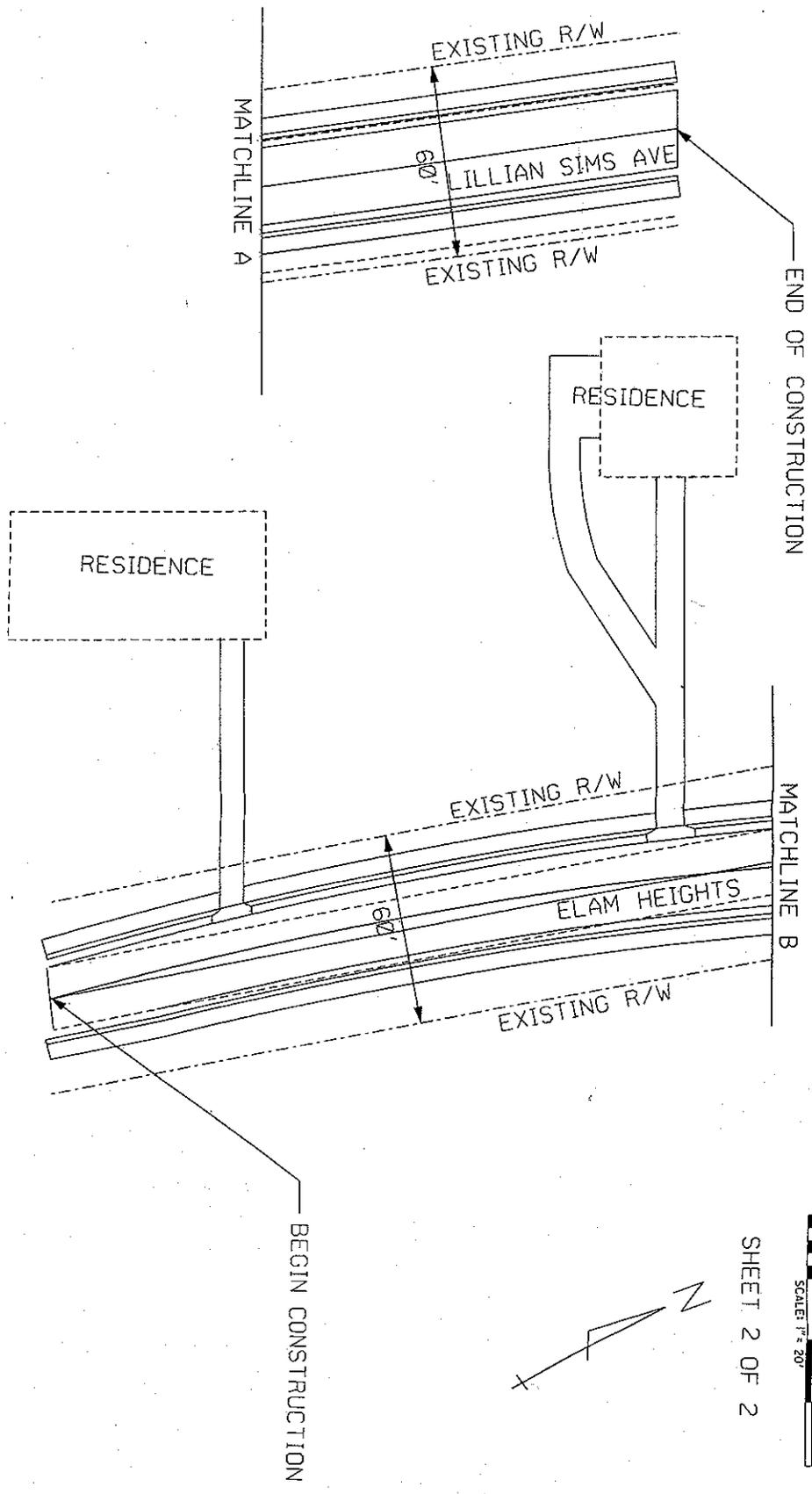
ESTIMATED REQUIRED RIGHT OF WAY	
AREA #1	- 1803,394 SF
AREA #2	- 1480,5227 SF
AREA #3	- 259,2984 SF
AREA #4	- 169,3394 SF
TOTAL	- 2,872,5525 SF



SR 47 @ CS 514/LILLIAN SIMS AVE. & ELAM HEIGHTS
LINCOLN COUNTY



SHEET 2 OF 2



cc! Kogertrice -V2
Traffic Ops.
9/26/01
(by fax @ (478) 552-4677)
Jim



Department of Transportation

State of Georgia

#2 Capitol Square, S.W.

Atlanta, Georgia 30334-1002

J. TOM COLEMAN, JR.
COMMISSIONER
(404) 656-5206

FRANK L. DANCHETZ
CHIEF ENGINEER
(404) 656-5277

HAROLD E. LINNENKOHL
DEPUTY COMMISSIONER
(404) 656-5212

BILLY F. SHARP
TREASURER
(404) 656-5224

September 13, 2001

Mr. William R. White
326 Elm Street
Lincolnton, GA 30817

Dear Mr. White:

Thank you for your letter dated August 30, 2001 concerning the intersection of SR 47 and Lillian Sims Drive in Lincolnton, GA. I have had my staff coordinate your concerns with the Tennille District Office. They have been very supportive of your recommendations and requested a permit for intersection advance warning signs and beacons to be installed on SR 47. I have approved the permit and the district staff will complete installation in the very near future.

Your correspondence also expressed concern that the beacons would operate only during the hours of school operation. I want to ensure you that the advance warning beacons for the intersection are planned to operate 24 hours a day as you have recommended.

If you require additional information, please contact Keith Golden at (404) 635-8117.

Sincerely,

J. Tom Coleman, Jr.
Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE State Route 47 at Lilliam Sims Drive
City of Lincolnton - Lincoln County

OFFICE Tennille

DATE December 15, 2000

FROM 
Roger E. Price, PE, District Traffic Engineer

TO Marion G. Waters, III, PE, State Traffic Operations Engineer
Attn: Melinda Boothe

SUBJECT TRAFFIC ENGINEERING REPORT

Attached is a Traffic Engineering Report with supporting information and a Request for Traffic Signal for this location.

This signal is to be installed by the Department of Transportation with equipment provided by the local government.

Please advise if you need additional information.

Attachments

REP:rp



Georgia Department of Transportation

TRAFFIC ENGINEERING REPORT

December 1, 2000

LOCATION: State Route 47 at Lillian Sims Ave./Elam Heights
COUNTY: Lincoln
CITY: Lincolnton
REQUESTED BY: Mayor Dwaine Biggerstaff
REASON FOR INVESTIGATION: To determine if a school wigwag is justified
MILEPOST 5.67

FINDINGS

TOPOGRAPHY

The intersection of State Route 47 at Lillian Sims Avenue and Elam Heights St. is a four - way intersection that is located in a residential area in the city of Lincolnton. The two side streets Elam Heights and Lillian Sims have a width of twenty feet and 39 feet respectively and State Route 47 has a width of 22 feet. State Route 47 runs West toward the city of Washington in Wilkes County and East to Pollards Corner and then North towards Appling. Elam Heights and Lillian Sims Avenue are offset at this intersection with a distance of 18 feet from centerline to centerline. The grades for State Route 47 East and Westbound approach are -3.3% and +1.1% respectively. A sketch is attached.

EXISTING TRAFFIC CONTROLS

State Route 47 is continuous and motorists are not required to stop. State Route 47 is controlled by raised pavement markers and edgelines. There is a solid yellow line and skip yellow lines indicating a "no-passing" zone through the intersection.

Elam Heights is controlled by a stop bar and stop sign with a double centerline.

Lillian Sims is controlled by a stop bar and stop sign on the shoulder and another stop sign located on the centerline in a grassed median strip.

VEHICULAR VOLUMES

<u>APPROACH</u>	<u>PEAK HOUR (7:15am -8:15am)</u>	<u>ONE HOUR (3:00 PM - 4:00 PM)</u>
NORTHBOUND	13	14
SOUTHBOUND	65	104
EASTBOUND	204	139
WESTBOUND	196	199
TOTAL	478	456

VEHICULAR SPEEDS

The speed limit on State Route 47 is 45 MPH.

PEDESTRIAN MOVEMENTS

This school location being in the city limits of Lincolnton and in a residential neighborhood, pedestrian traffic is expected.

DELAY

No delay study was conducted at this time.

PARKING

There was no evidence of parking on State Route 47 at this location.

ACCIDENT HISTORY

Four accidents were reported at this location from January 1998 to September 2000
(See attached collision diagram)

ADJACENT SIGNALIZED INTERSECTIONS

There is a stop and go signalized intersection at State Route 43 and State Route 47, 1400 feet West of this intersection (M.L. 5.43).

Airport Rd and Zebulon Rd Intersection - Average - 6:30AM - 9:00AM												
	Airport Rd			N. Bound Zebulon Rd			S. Bound Zebulon Rd			Total		
	Right Turn	Left Turn	Straight	Right Turn	Left Turn	Straight	Right Turn	Left Turn	Straight			
6:30 - 6:45	4	11	0	0	20	64	32	1	18	148		
6:45 - 7:00	4	18	0	0	24	120	42	4	30	239		
7:00 - 7:15	6	10	1	0	21	69	35	1	50	191		
7:15 - 7:30	7	24	1	0	34	114	38	0	45	260		
7:30 - 7:45	19	25	0	0	46	145	43	0	33	311		
7:45 - 8:00	18	42	8	0	42	191	71	0	63	433		
8:00 - 8:15	25	23	5	0	30	171	34	2	51	340		
8:15 - 8:30	14	31	4	0	19	121	36	4	47	275		
8:30 - 8:45	12	20	2	0	18	93	27	3	59	232		
8:45 - 9:00	8	18	3	2	24	122	24	7	67	273		
Total	116	219	23	2	276	1208	380	18	460	2699		

Note: The existing speed limit is 45 MPH from the City Limits to Lillian Sims Drive and 35 MPH from Lillian Sims Drive to State Route 43. The 35 MPH speed zone will be moved back at least 550 feet back to accommodate the 25 mph "School Zone."

School flasher to be installed on existing Wikes Telephone and Electric Company Pole # A 11

END SCHOOL ZONE

SCHOOL

SPEED ZONE AHEAD

White Rock Rd.

To Columbia Co.

Lillian Sims Drive

TO LINCOLN CO. HIGH SCHOOL

Eiam Heights Rd.

SCHOOL SPEED LIMIT 25 WHEN FLASHING

END SCHOOL ZONE

SCHOOL SPEED ZONE AHEAD

500'

567'

1117'

455'

95'

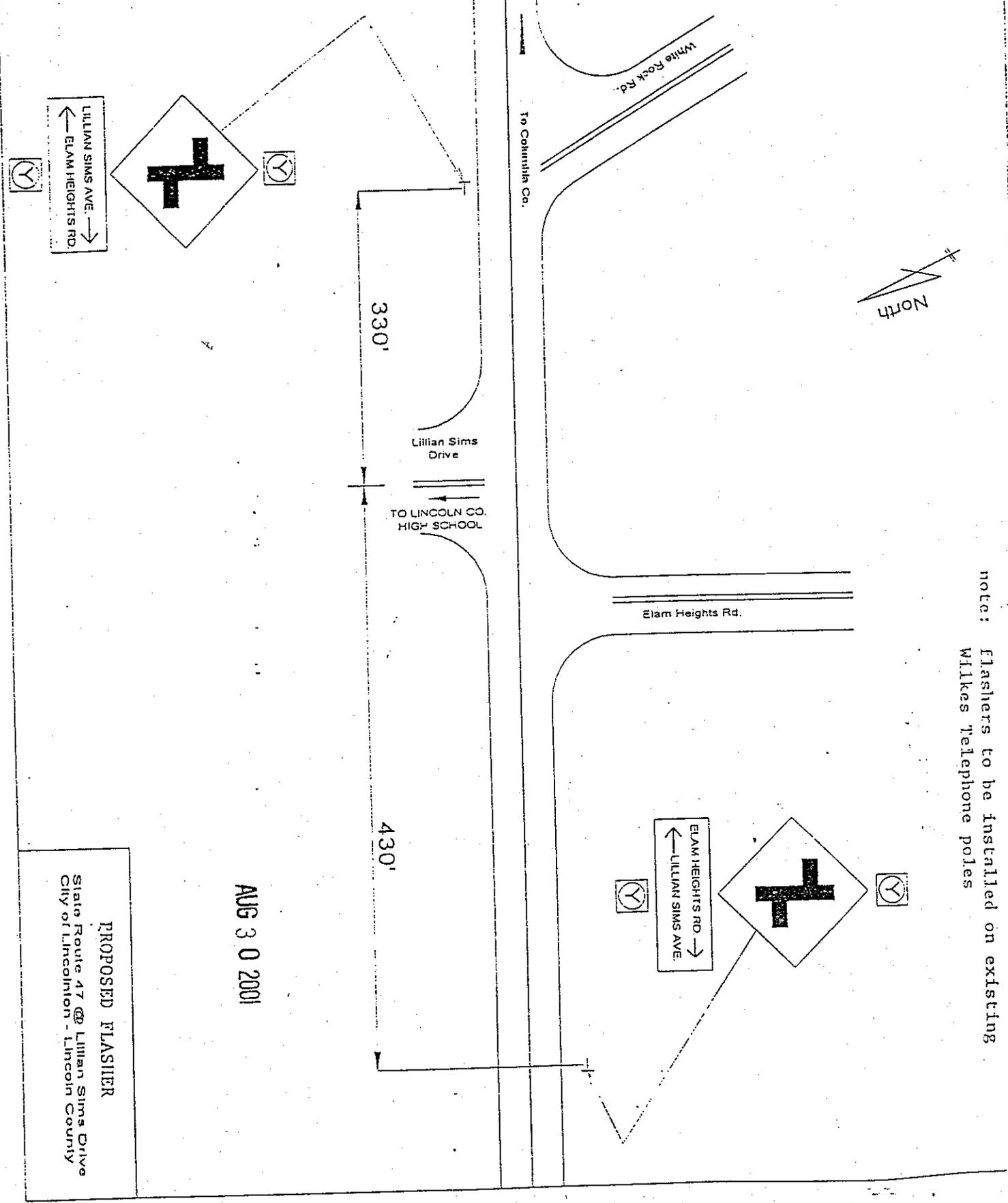
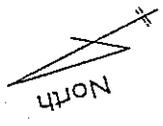
500'

SCHOOL SPEED LIMIT 25 WHEN FLASHING

School flasher to be installed on existing Wikes Telephone and Electric Company Pole # A 17

Proposed School Zone
 State Route 47 @ Lillian Sims Drive
 City of Lincoln - Lincoln County

note: flashers to be installed on existing
Milkes Telephone poles



LILLIAN SIMS AVE. →
← ELAM HEIGHTS RD.

ELAM HEIGHTS RD. →
← LILLIAN SIMS AVE

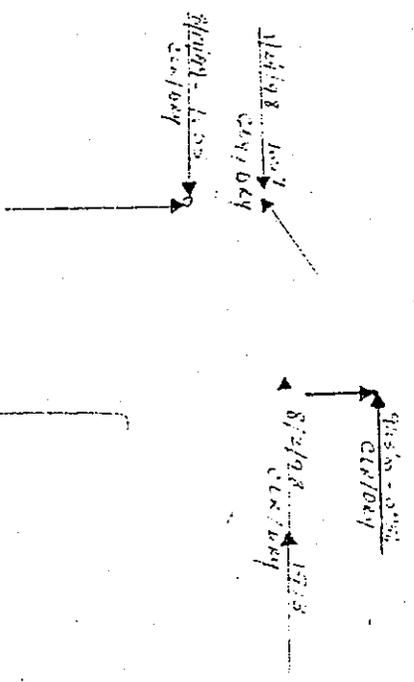
PROPOSED FLASHER
State Route 47 @ Lillian Sims Drive
City of Lincoln - Lincoln County

AUG 3 0 2001

COLLISION DIAGRAM



LILLIAN SIMMS →



ACCIDENT SUMMARY

TIME OF DAY	NO. ACCS.	WEATHER	NO. ACCS.
6 AM - 10 AM	1	CLEAR (CL)	1
10 AM - 4 PM	1	CLOUDY (CLY)	1
4 PM - 7 PM	1	RAIN (R)	1
7 PM - 12 MID	1	FOG (F)	1
12 MID - 6 AM	1	SNOW (S)	1
TOTAL	4	TOTAL	4

TIME OF YR.	NO. ACCS.	DIRECTION	NO. ACCS.
DEC - FEB	1	NORTHERND	1
MAR - MAY	1	SOUTHERND	1
JUNE - AUG	1	EASTBOUND	1
SEPT - NOV	1	WESTBOUND	1
TOTAL	4	TOTAL	4

PAVEMENT	NO. ACCS.	ACC. SEVERITY	NO. ACCS.
DRY (D)	1	PROP. DAM. ONLY	1
WET (W)	1	NON-FATAL INJ.	1
ICY (I)	1	FATAL INJ.	1
TOTAL	4	TOTAL	4

TYPE ACCS.	NO. ACCS.	TYPE VEIL.	NO. ACCS.
SHOESWIPE	1	AUTOMOBILE	1
REAR END	1	TRUCK	1
RT. ANGLE	1	MOTORCYCLE	1
LEFT TURN	1	OTHER	1
TOTAL	4	TOTAL	4

DATE _____ INTERSECTION _____

COUNTY Linn CITY Linn DISTRICT TWO

TIME PERIOD Jan 28 - Sept 28

DAY OF THE WEEK						
MON.	TUE	WED.	THUR.	FRI.	SAT.	SUN.
1	1	1	1	1	1	1
TOTAL	4	TOTAL	4			

Distribution:
White - Applicant
Yellow - State Traffic Engineer
Pink - District Traffic Engineer

Do Not Write In This Space
Application No. _____
Permit No. _____

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

REQUEST FOR TRAFFIC SIGNAL

To the Georgia Department of Transportation:

The City of Lincolnton in Lincoln County hereby requests approval for the use of a traffic signal at the location described below:

LOCATION

Local Street Names: _____ at _____

State Route Numbers: 47 at Lillian Sims/Elam Heights

TYPE SIGNAL

() Stop and Go () Flashing Beacon (X) School Beacon () Other

CONDITIONS OF APPLICATION AND STANDARDS OF OPERATION

In the event that the Georgia Department of Transportation authorizes the use of a traffic signal at the above location, the undersigned agrees to participate in the costs to purchase and install the signal. This level of participation will be determined after a study of the location has been completed. The signal must be installed to the Department's standards and conform with the authorization issued by the Department and the provisions set forth therein.

COST OF OPERATION

The full and entire costs of the electric energy and telephone service used to operate the signal shall be at the expense of the applicant without any cost to the Georgia Department of Transportation. The applicant understands that the Department may ask for participation in the costs for the purchase, installation and maintenance of the signal if approved.

INSPECTION AND APPROVAL

The installation, maintenance and operation of said signal shall be subject at all times to inspection and approval by a duly authorized engineer of the Georgia Department of Transportation.

RIGHT TO REVOKE

The Georgia Department of Transportation reserves the right to revoke the approval should it for any reason desire to do so, by giving the applicant thirty (30) days written notice, and in that event, the applicant agrees to remove said signal from said right-of-way at its own expense or allow it to be removed by the Department.

This application is hereby submitted and all of the terms and conditions are hereby agreed to. The undersigned are duly authorized to execute this instrument.

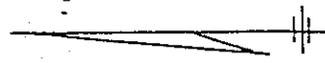
Attest:

Kay F. Remsen
Clerk

This the 12 day of Dec 2000

By: Dwaine Bazzley

Title: Mayor



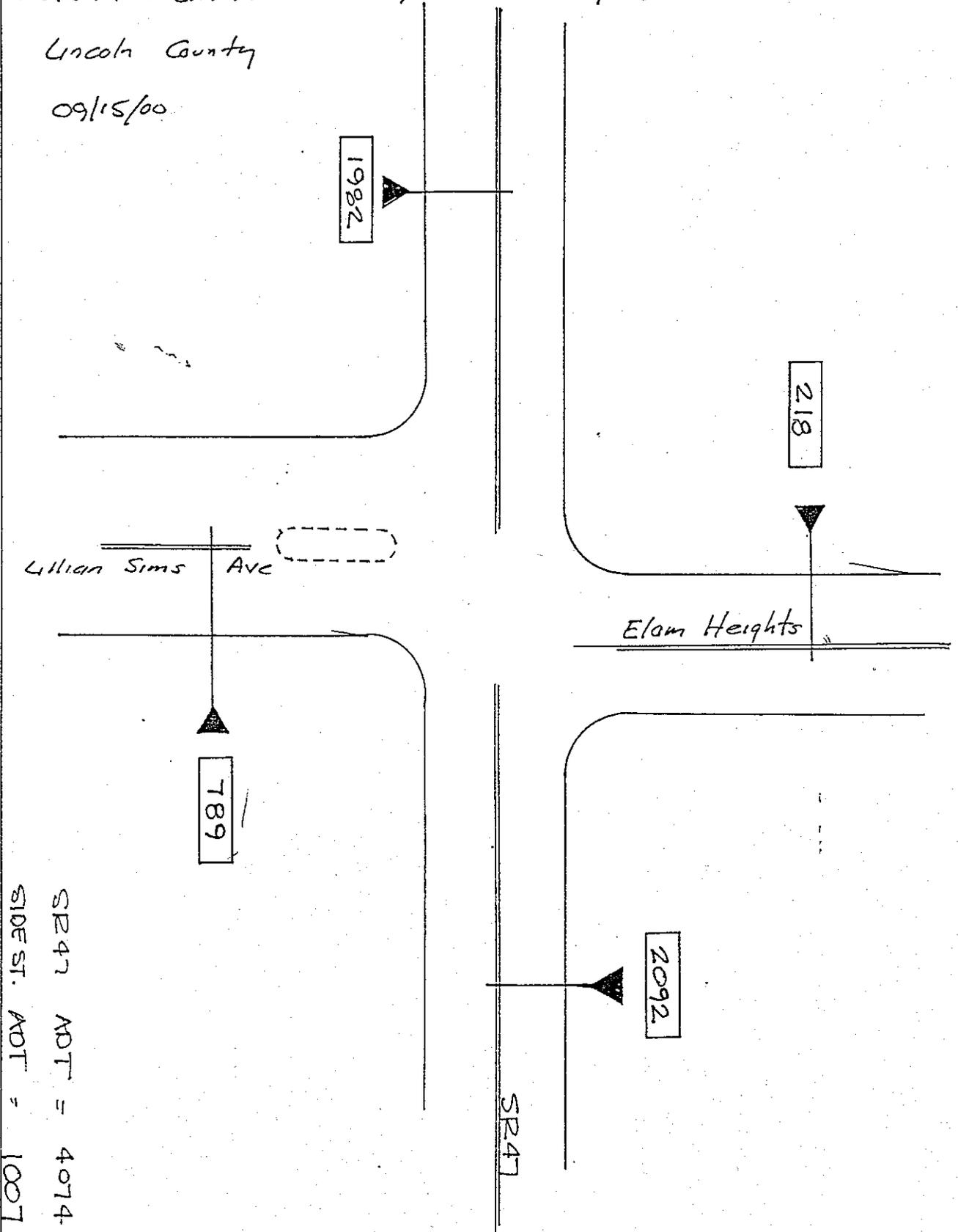
Special 24 hr counts

SR 47 @ Lillian Sims Ave / Elams Heights

Lincoln County

09/15/00

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



SR 47 ADT = 4074
SIDE ST. ADT = 1007

ADT VOLUMES BELOW WHICH SIGNAL ISN'T WARRANTED
(95% Confidence Level)

TABLE 1

Number of Lanes for Moving Traffic on Each Approach		A.D.T. on Major St.		A.D.T. on Minor St. Assuming D = 67%	
Major St.	Minor St.				
Warrant 1					
1	1	8,200	(5,750)*	3,700	(2,600)
2 or more	1	9,850	(6,900)	3,700	(2,600)
2 or more	2 or more	9,850	(6,900)	4,900	(3,450)
1	2 or more	8,200	(5,750)	4,900	(3,450)
Warrant 2					
1	1	12,300	(8,600)	1,850	(1,300)
2 or more	1	14,750	(10,300)	1,850	(1,300)
2 or more	2 or more	14,750	(10,300)	2,450	(1,700)
1	2 or more	12,300	(8,600)	2,450	(1,700)

ADT VOLUMES ABOVE WHICH SIGNAL IS WARRANTED
(95% Confidence Level)

Table 2

Number of Lanes for Moving Traffic on Each Approach		A.D.T. on Major St.		A.D.T. on Minor St. Assuming D = 50%	
Major St.	Minor St.				
Warrant 1					
1	1	9,600	(6,700)*	5,750	(4,000)
2 or more	1	11,550	(8,100)	5,750	(4,000)
2 or more	2 or more	11,550	(8,100)	7,700	(5,400)
1	2 or more	9,600	(6,700)	7,700	(5,400)
Warrant 2					
1	1	14,400	(10,100)	2,900	(2,050)
2 or more	1	17,300	(12,100)	2,900	(2,050)
2 or more	2 or more	17,300	(12,100)	3,850	(2,700)
1	2 or more	14,400	(10,100)	3,850	(2,700)

*Numbers in parentheses 70% of values

Southern Traffic Services Inc. Event Counts

LINCOLN COUNTY SO# 146 SITE# 7003 NB ELAM HEIGHTS S/O SR 47 (NORTH BOUND)

DATASETS:

Site: [MA.AE] STS MA. AE
 ChannelA: 0 - Unused or unknown. - Added to totals. (1)
 ChannelB: 0 - Unused or unknown. - Excluded from totals. (0)
 Survey Duration: 20:26 Tue 26 Sep 2000 to 21:16 Wed 27 Sep 2000
 File: D:\Data\gdot2000\Job227\092300\MA.AE28SEP2000.EC0 (Plus)
 Identifier: J829SNEY MC55-3 [MC50] (c)Microcom 11/02/99
 Algorithm: Event count

PROFILE:

Filter time: 21:00 Tue 26 Sep 2000 to 21:00 Wed 27 Sep 2000
 Name: Factory default profile
 Method: Count axes divided by two.
 Units: Non-Metric (ft, mi, f/s, mph, lb, ton)
 In profile: 219 Events

Tue 26 Sep 2000 - Total=9(incomplete), 15 minute drops,

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	2	0
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2	0
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5	0
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0	0

Wed 27 Sep 2000 - Total=209(incomplete), 15 minute drops,

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
0	1	0	0	0	5	5	18	7	10	5	9	14	13	16	14	18	23	14	11	-	-	-	-
0	1	0	0	0	1	2	2	4	2	1	2	3	2	1	1	7	7	5	3	1	-	-	-
0	0	0	0	0	0	0	7	0	4	4	0	5	3	2	3	1	9	0	2	17	-	-	-
0	0	0	0	0	3	2	2	2	2	0	5	3	3	5	3	4	2	2	4	8	-	-	-
0	0	0	0	0	0	7	1	2	0	2	3	5	8	7	6	5	7	2	-	-	-	-	-

AM PKhr 07:15 to 08:15 (n=20), AM PHF=0.71

AM 13 7:15 - 8:30
 PK 14 3:00 - 4:00

Southern Traffic Services Inc. Event Counts

LINCOLN COUNTY SO# 146 SITE#7004 SB LILLIAN SIMS AVE N/O SR 47 (SOUTH BOUND)

DATASETS:

Site: [MA. Y] STS MA.Y
 ChannelA: 0 - Unused or unknown. - Added to totals. (1)
 ChannelB: 0 - Unused or unknown. - Excluded from totals. (0)
 Survey Duration: 20:26 Tue 26 Sep 2000 to 21:15 Wed 27 Sep 2000
 File: D:\Data\gdot2000\Job227\092300\MA. Y28SEP2000.EC0 (Plus)
 Identifier: J625E32V MC55-3 [MC50] (c)Microcom 11/02/99
 Algorithm: Event count

PROFILE:

Filter time: 21:00 Tue 26 Sep 2000 to 21:00 Wed 27 Sep 2000
 Name: Factory default profile
 Method: Count axes divided by two.
 Units: Non-Metric (ft, mi, f/s, mph, lb, ton)
 In profile: 790 Events

Tue 26 Sep 2000 - Total=23(incomplete), 15 minute drops,

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	6	5
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2	1	3
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	1	0
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	0	0	0

Wed 27 Sep 2000 - Total=766(incomplete), 15 minute drops,

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
2	0	0	1	0	1	11	59	25	31	27	40	38	38	35	104	82	76	120	56	20	-	-	-
0	0	0	0	0	0	3	4	8	8	9	11	13	12	15	52	19	16	22	18	3	-	-	-
0	0	0	0	0	0	3	5	8	11	4	9	10	9	6	12	23	23	55	13	7	-	-	-
0	0	0	0	0	0	5	17	6	4	8	9	6	7	8	20	23	17	19	18	8	-	-	-
0	0	0	0	0	1	3	32	3	8	6	11	9	10	6	20	17	20	24	7	2	-	-	-

AM PkHr 07:30 to 08:30 (n=65), AM PHF=0.51

AM 65 @ 7:30 - 8:30
 PM 104 @ 3:00 - 4:00

Southern Traffic Services Inc. Event Counts

LINCOLN COUNTY SO# 146 SITE# 7001 EB SR 47 W/O ELAM HEIGHTS (EAST BOUND)

DATASETS:

Site: [MA.AS] MA.AS
 ChannelA: 0 - Unused or unknown. - Added to totals. (1)
 ChannelB: 0 - Unused or unknown. - Excluded from totals. (0)
 Survey Duration: 20:25 Tue 26 Sep 2000 to 21:20 Wed 27 Sep 2000
 File: D:\Data\gdot2000\Job227\092300\MA.AS28SEP2000.EC0 (Plus)
 Identifier: A087B89G MC56-1 [MC55] (c)Microcom 07/06/99
 Algorithm: Event count

PROFILE:

Filter time: 21:00 Tue 26 Sep 2000 to 21:00 Wed 27 Sep 2000
 Name: Factory default profile
 Method: Count axes divided by two.
 Units: Non-Metric (ft, mi, f/s, mph, lb, ton)
 In profile: 2093 Events

Tue 26 Sep 2000 - Total=82(incomplete) , 15 minute drops,

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	30	10
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	4	12
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	6	3
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	2	3

Wed 27 Sep 2000 - Total=2010(incomplete) , 15 minute drops,

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
3	3	3	3	6	32	60	206	128	124	111	124	101	104	144	139	190	163	161	114	91	-	-	-
1	1	2	1	0	7	15	34	44	40	32	32	30	29	30	43	39	37	49	24	16	-	-	-
1	1	1	0	2	8	18	34	22	26	30	23	20	25	36	28	46	49	47	42	35	-	-	-
0	0	0	1	1	10	12	72	30	26	19	39	25	24	36	38	48	35	28	26	23	-	-	-
1	1	0	1	3	7	15	66	32	32	30	30	26	26	42	30	57	42	37	22	17	-	-	-

AM PkHr 07:15 to 08:15 (n=216), AM PHF=0.76



AM 204 @ 7:30 - 8:30
 PM 139 @ 3:00 - 4:00

Southern Traffic Services Inc. Event Counts

LINCOLN COUNTY SO# 146 SITE# 7002 WB SR 47 E/O ELAM HEIGHTS (WEST BOUND)

DATASETS:

Site: [MA.BA] MA.BA
 ChannelA: 0 - Unused or unknown. - Added to totals. (1)
 ChannelB: 0 - Unused or unknown. - Excluded from totals. (0)
 Survey Duration: 20:24 Tue 26 Sep 2000 to 21:25 Wed 27 Sep 2000
 File: D:\Data\gdot2000\Job227\092300\MA.BA28SEP2000.EC0 (Plus)
 Identifier: A422MP5F MC58-1 [MC55] (c)Microcom 07/08/99
 Algorithm: Event count

PROFILE:

Filter time: 21:00 Tue 26 Sep 2000 to 21:00 Wed 27 Sep 2000
 Name: Factory default profile
 Method: Count axes divided by two.
 Units: Non-Metric (ft, mi, f/s, mph, lb, ton)
 In profile: 1982 Events

Tue 26 Sep 2000 - Total=71(incomplete), 15 minute drops,

0300	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	16	13
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	6	5
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	13	6
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	2	3
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	2	3

Wed 27 Sep 2000 - Total=1911(incomplete), 15 minute drops,

0300	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
7	3	5	3	7	24	58	172	116	104	99	101	103	96	109	199	180	179	149	110	87	-	-	-
3	0	1	2	1	7	10	15	41	22	41	23	22	35	22	67	38	56	45	28	24	-	-	-
4	1	1	0	1	7	14	34	34	24	19	32	22	16	24	55	56	43	30	33	21	-	-	-
0	1	3	0	2	5	13	48	21	28	13	27	26	24	20	29	41	38	34	26	23	-	-	-
1	1	0	1	3	5	21	75	20	30	26	19	33	21	43	48	45	42	40	23	19	-	-	-

AM PHr 07:15 to 08:15 (n=198), AM PHF=0.66



AM 196 7:20 - 8:30

PM 199 3:00 - 4:00

September 19, 2000

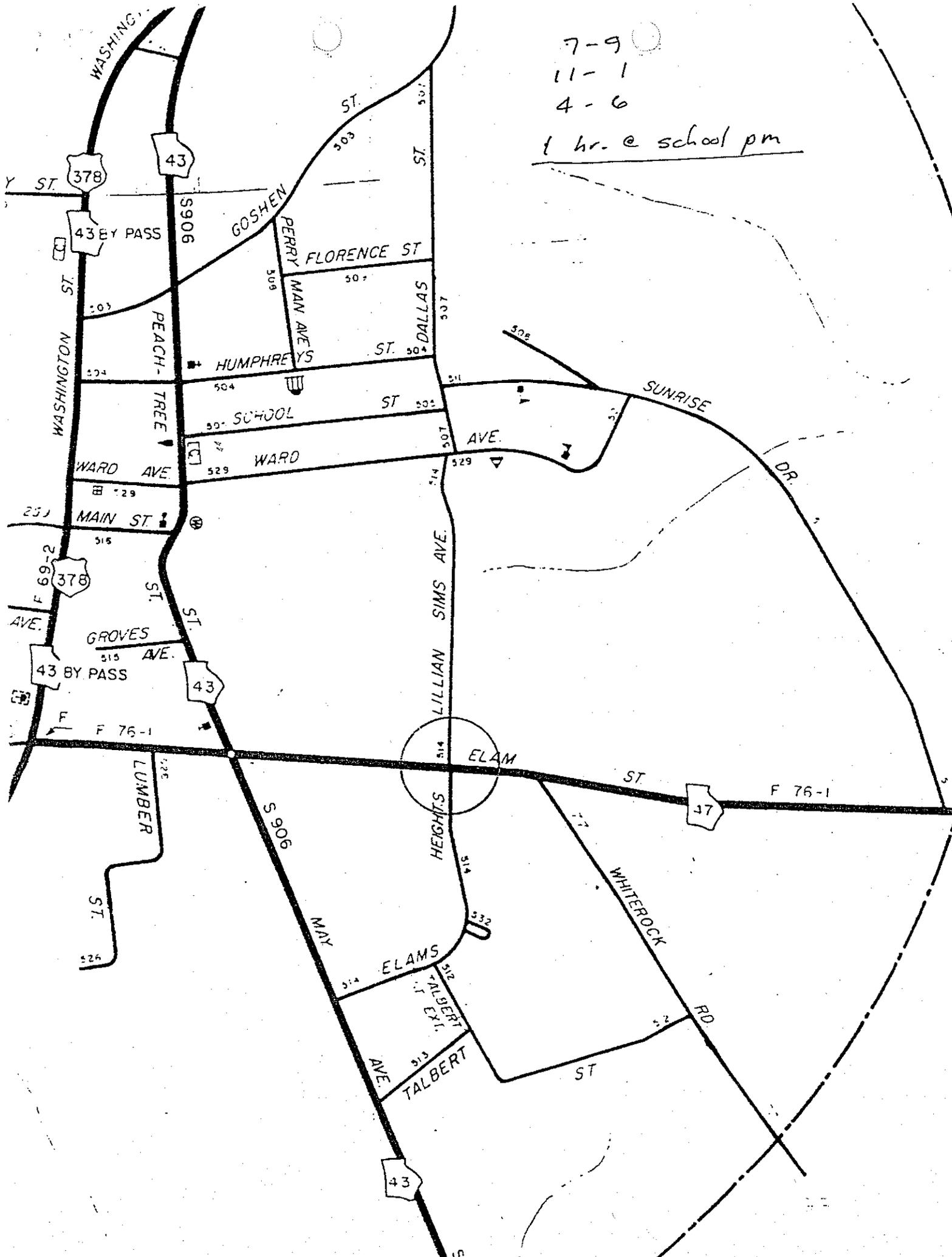
*To: Department Of Transportation
State of Georgia
Office of District Engineer
Tennille, Georgia 31089-0008*

*From: SFC W. E. Burns
1015 Greensboro Highway
Post #15 - Washington
Washington, Georgia 30673*

*RE: STATE ROUTE 47 AT LILLIAM SIMMS DRIVER - ELAM
HEIGHTS DRIVE
CITY OF LINCOLNTON, LINCOLN COUNTY*

We have reviewed our records and have no records or reports of any accidents occurring at the above location. If we can be of any additional assistance you may contact me at 706 678-3232.

7-9
11-1
4-6
1 hr. @ school pm



SR 47 at Lillian Sims Dr - Lincoln City

INTERSECTION HISTORY

A previous Traffic Engineering study was conducted at this location on November 28, 1990. It was recommended that a button island, stop bar, Stop sign and Keep Right sign be added to Lillian Sims Dr. and relocate existing speed limit sign 100 feet further to the West of Lillian Sims Dr.

Another study was conducted at this location on September 18, 1992. It was recommended that "School Buses Entering Highway" advisory signs be installed on the East and Westbound approaches of S.R. 47.

OTHER INFORMATION

Lincoln County High School hours are 8:00 a.m. to 3:00 p.m. There are approximately 840 students and 98 faculty and staff members attending the school. The grades range from 6th grade to 12th. There are 12 buses that serve this school. The buses begin arriving at 7:45 and depart at 3:00 p.m.

TRAFFIC SIGNAL WARRANT ANALYSIS

Warrant analysis are non-applicable.

CONCLUSION

It is concluded that a school zone with a school signal installed on the East bound and West bound side of S.R. 47 will enhance the safety of this intersection. Also it is concluded that if the centerline of Elam Heights and Lillian Sims Dr. were symmetrical the intersection would function better.

RECOMMENDATIONS

- 1- It is recommended that a school zone be established on S.R. 47.
- 2- It is recommended that the City of Lincoln be issued a permit to install, operate and maintain a school signal at this location.
- 3- It is recommended that centerline and edgeline markings be installed on Lillian Sims Drive.

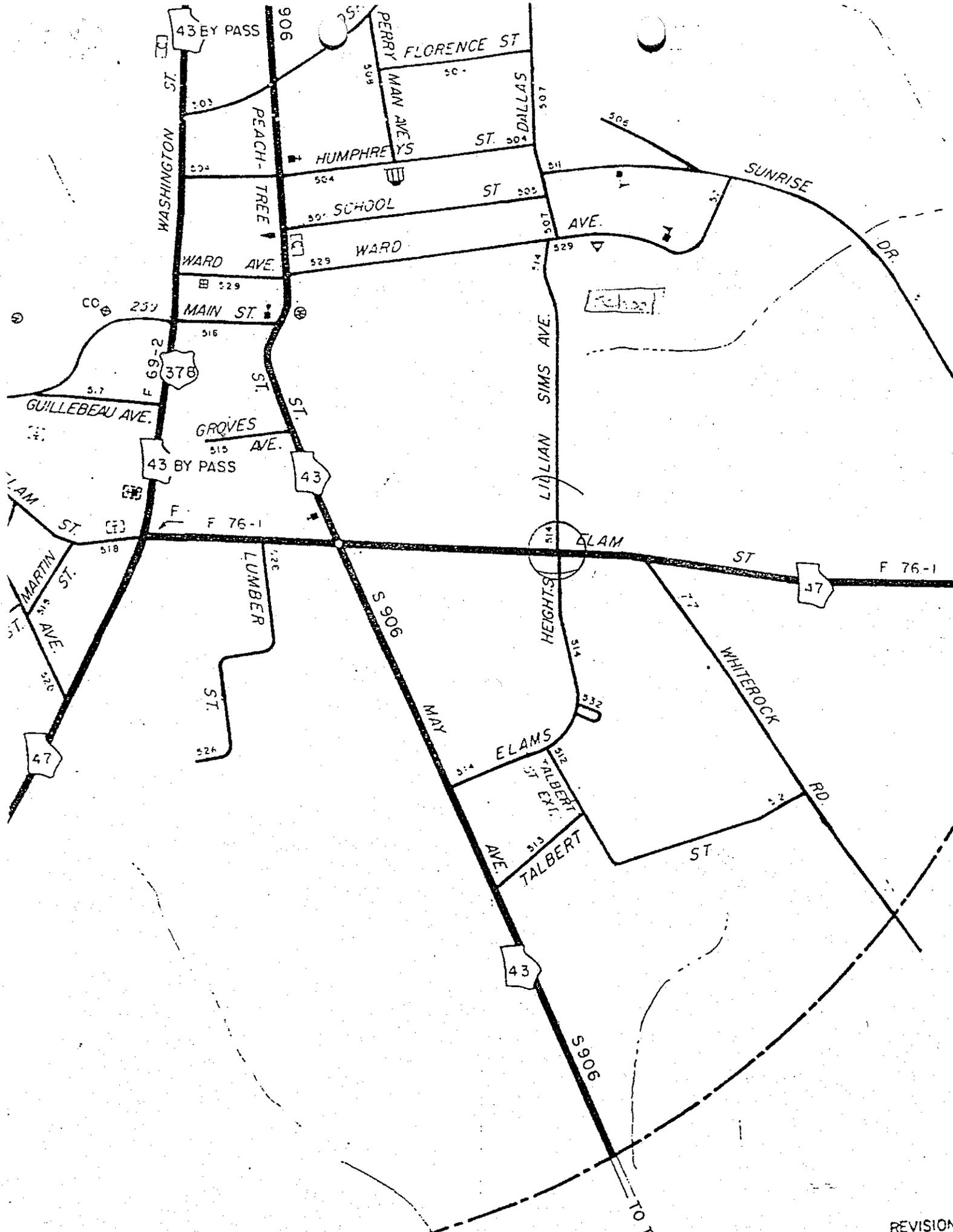
SIGNATURES

PREPARED BY: Jackson C Brazell DATE: 12/06/00

RECOMMENDED: [Signature] DATE: 12/06/00
DISTRICT TRAFFIC ENGINEER

RECOMMENDED: Merion [Signature] DATE: 8/9/01
STATE TRAFFIC OPERATIONS ENGINEER

RECOMMENDED: [Signature] DATE: 8/15/01
DIRECTOR OF OPERATIONS



SEP 4 2001

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: Lincoln County
SR 47 @ Lillian Sims Dr.
Lincolnton

OFFICE: Atlanta - TMC
DATE: August 30, 2001

FROM: *MGW* M. G. Waters, III, P.E., State Traffic Operations Engineer

TO: Mike Thomas, District Engineer, Tennille
ATTN: Roger Price, District Traffic Engineer

SUBJECT: Permit for Advance Warning Beacons

Attached for further handling is an approved permit for advance warning beacons to be installed at the intersection of State Route 47 and Lillian Sims Drive in the City of Lincolnton, Lincoln County. District Two Forces will be responsible for the installation of these advance warning beacons. Please keep a copy of this approved permit for your files and send a copy to the City of Lincolnton.

If you have any questions concerning this matter, please feel free to contact this office.

MGW:MRB
Attachments

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
TRAFFIC SIGNAL AUTHORIZATION

AUG 30 2001

The State Department of Transportation of Georgia hereby approves, subject to the conditions set forth herein, the use of a Traffic Signal device as described below and as shown on the attached drawing.

LOCATION OF SIGNAL

County: LINCOLN City: LINCOLNTON Mile Point: _____ : _____

Local Highway or Street Names: _____ at LILLIAN SIMS DR./ELAM HEIGHTS RD.

State Route and U.S. Route Numbers: SR 47 at _____

DOT Intersection Number: 0014042

TYPE SIGNAL

- Stop and Go Flashing Beacon School Beacon Other WARNING BEACONS *changed to warning beacons*
- Full Actuated Pedestrian Push Buttons Pedestrian Heads RR Pre-emption
- Other Pre-emption Interconnected _____ Closed Loop/TBC
- Master/Local

Controller shall meet Ga. D.O.T Specifications. Controller Phasing and signal heads shall conform to the details on the attached drawing.

The signal device as described in this document is to be maintained and operated by:

- The Georgia Department of Transportation

Special Requirements: FLASHING BEACONS TO BE INSTALLED AT MP 5.56 AND MP 5.77

Signal shall flash during all times when it is not in Stop and Go operation and during emergency repairs. Signal heads are to be hooded or taken down when for any reason the signal is not operating as Stop and Go or Flasher during a period of more than six consecutive days or when requested by DOT Traffic Operations Engineer. The traffic control signal equipment, its installation, operation and timing covered by this authorization shall not be materially altered without the written approval of the Georgia Department of Transportation.

NOTE: This authorization is valid only so long as equipment used is standard equipment as specified and is maintained and operated in accordance with the terms of this authorization and the requirements of the current Manual on Uniform Traffic Control Devices.

RECOMMENDED: *Marion G. Watson*
State Traffic Operations Engineer

APPROVED: *C. S. [Signature]*
Division Director of Operations

APPROVED: *H. L. [Signature]*
Chief Engineer

DATE ISSUED: AUG 30 2001