

(sample)

Traffic Engineering Report

March 30, 2004

Windy Hill Road at I-75 Southbound Ramp/Circle 75 Parkway

Reason for Investigation: The above referenced intersection was studied for possible red light running photo enforcement.

Topography: Windy Hill Road is an east/west arterial beginning at Austell Road/SR 5 and ending at Powers Ferry Road. Windy Hill Road has three through lanes eastbound and two through lanes with dual left turn lanes westbound. The I – 75 southbound ramp has dual left turn lanes, two through lanes and a single right turn lane. Circle 75 Parkway is a north/south collector beginning at Cobb Parkway/SR 3 and ending at Windy Hill Road. Circle 75 Parkway has a left turn lane and dual right turn lanes.

Vehicle Volumes: Windy Hill Road
ADT = 40,000

Circle 75 Parkway
ADT = 14,500

Vehicle Speeds: Windy Hill Road and Circle 75 Parkway have a posted speed limit of 35 mph.

Pedestrian Movements: No pedestrian movements were observed during this study.

Existing Traffic Control: The subject intersection is controlled by a traffic signal.

Adjacent Traffic Signals:

Windy Hill Road

South Park Place is signalized 1100 feet west of the subject location.

I – 75 Northbound Ramp is signalized 900 feet east of the subject location.

Circle 75 Parkway

Windy Ridge Parkway is signalized 3700 feet south of the subject location.

Accident Analysis: Cobb County reviewed every signalized intersection in the County to determine which intersection had the highest number of right angle accidents over the last two years. The accident history available (01/01/02 – 12/31/03) was reviewed to determine this intersection had the highest number of accidents caused by red light violators. A total of thirty-eight right angle accidents were reported for the twenty-four-month period with fifteen resulting in injuries. All of the reported right angle accidents were caused by red light violators.

Signal Warrants: N/A

Signal Clearance Intervals:

	<u>Yellow</u>	<u>Red</u>
Phase 2	4.0	2.5
Phase 4	4.0	2.5
Phase 5	4.0	2.5
Phase 6	4.0	2.5
Phase 8	4.0	2.5

Conclusions: The results of this study indicate red light running photo enforcement would reduce the number of right angle accidents at this intersection.

Recommendations: Cobb County requests consideration to install red light running photo enforcement at this location through the grant program offered by the Georgia Department of Transportation.

Attachments: Location Map
Accident Data
Preliminary Design
Cost Estimate

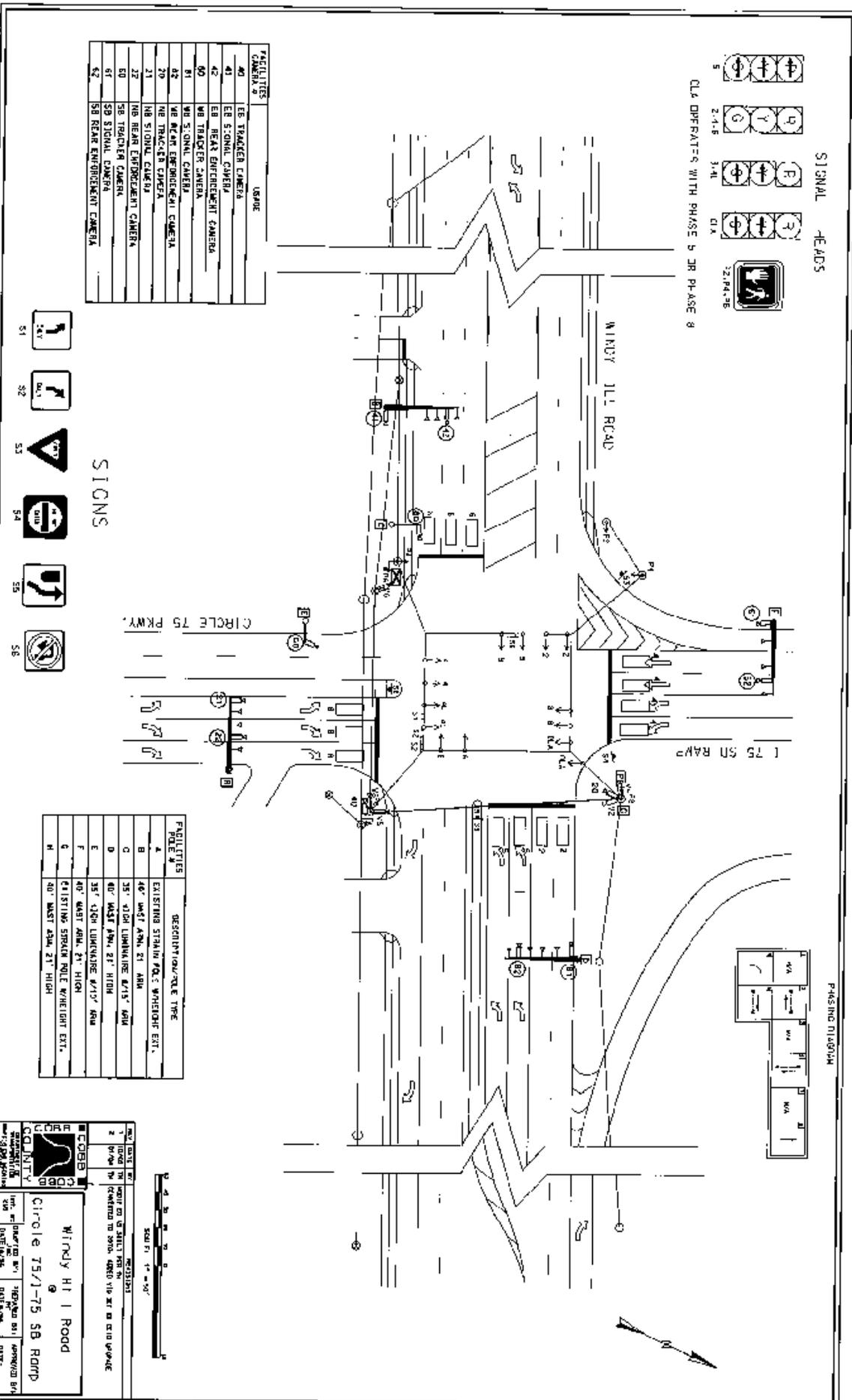
PREPARED BY: _____ DATE: _____
Cobb County Traffic Signal Engineer

RECOMMENDED BY: _____ DATE: _____
Cobb County Traffic Operations Division Manager

RECOMMENDED BY: _____ DATE: _____
District Traffic Engineer

RECOMMENDED BY: _____ DATE: _____
State Traffic Engineer

APPROVED BY: _____ DATE: _____
Director of Operations



UTILITIES	POLE #	DESCRIPTION
40	EB TRACKER CAMERA	
41	EB SIGNAL CAMERA	
42	EB BEAR ENFORCEMENT CAMERA	
40	WB TRACKER CAMERA	
81	WB SIGNAL CAMERA	
82	WB MAIN EMERGENCY CAMERA	
20	WB TRACKER CAMERA	
21	WB SIGNAL CAMERA	
22	WB BEAR ENFORCEMENT CAMERA	
80	SB TRACKER CAMERA	
81	SB SIGNAL CAMERA	
82	SB REAR EMERGENCY CAMERA	

SIGNS

- 51
- 52
- 53
- 54
- 55
- 56

UTILITIES	POLE #	DESCRIPTION/POLE TYPE
A	EXISTING STRAIN POLE W/REDFISH EXT.	
B	40' WAST ARM, 21' HIGH	
C	35' X120 LUMINAIRE #1/3' ARM	
D	40' WAST ARM, 21' HIGH	
E	35' X120 LUMINAIRE #1/3' ARM	
F	40' WAST ARM, 21' HIGH	
G	EXISTING STRAIN POLE W/REDFISH EXT.	
H	40' WAST ARM, 21' HIGH	

Windy Hill Road
Circle 75/1-75 SB RAMP

DATE: 06/02/2004
 TIME: 07:14:30 AM

PROJECT NO: 03-0000-01
 SHEET NO: 100-0000-01

DESIGNED BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]