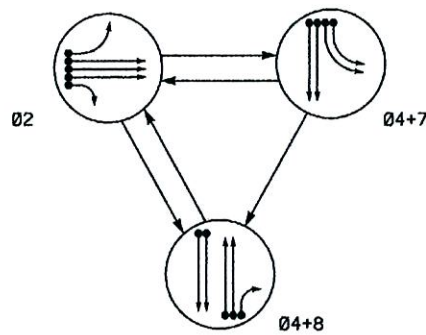


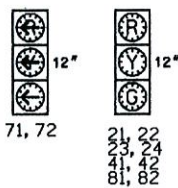
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	02	04+7	04+8	F
21, 22, 23, 24	G	R	R	Y
41, 42	R	G	G	R
71, 72	R	R	R	R
81, 82	R	R	G	R

SIGNAL FACE I.D.

Denotes L.E.D.



PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

MIN SPLIT 16 13 13 13

FEATURE	PHASE			
	2	4	7	8
Min Green 1 *	10	7	7	7
Extension 1 *	3.0	2.0	2.0	2.0
Max Green 1 *	60	20/30	15	20
Yellow Clearance	3.6	3.7	3.0	3.9
Red Clearance	1.8	1.5	2.6	1.5
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MIN RECALL	-	-	-
Vehicle Call Memory	YELLOW	-	-	-
Dual Entry	-	ON	-	-
Simultaneous Gap	ON	ON	ON	ON

\* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 2 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

2070L LOOP & DETECTOR INSTALLATION

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	PULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM	LOOP
2A, 2C	6X6	70	Existing	Y	2	Y	Y	-	-	-	-	-
2B	6X26	70	Existing	Y	2	Y	Y	-	-	-	-	-
4A	6X60	+5	2-4-2	-	4	Y	Y	Y	2	5	-	-
4B	6X60	+5	2-4-2	-	4	Y	Y	Y	2	5	-	-
7A	6X40	+5	2-4-2	-	7	Y	Y	-	-	3	-	-
7B	6X40	+5	2-4-2	-	7	Y	Y	-	-	-	-	-
8A	6X40	0	2-4-2	-	8	Y	Y	Y	2	5	-	-
8B	6X40	0	2-4-2	-	8	Y	Y	Y	2	5	-	-
8E	6X40	0	2-4-2	-	8	Y	Y	-	-	15	-	-
S1	6X6	375	Existing	-	-	-	-	-	-	-	Y	-
S2	6X6	375	Existing	-	-	-	-	-	-	-	Y	-
S3	6X6	+200	Existing	-	-	-	-	-	-	-	Y	-
S4	6X6	+200	Existing	-	-	-	-	-	-	-	Y	-
2C	6x10	250	5	Y	2	Y	Y	Y	-	-	-	-

SYSTEM DETECTORS			
System Detector ID Number	Signal System ID Number	Control Zone	
S1	0335-01	4	
S2	0335-02	4	
S3	0335-03	4	
S4	0335-04	4	

4A	6x6	250	5	Y	4	-	Y	-	-	-	-	-
4B	6x6	250	5	Y	4	-	Y	-	-	-	-	-
8A	6x6	250	5	Y	8	-	Y	-	-	-	-	-
8B	6x6	250	5	Y	8	-	Y	-	-	-	-	-

3 Phase Fully Actuated (Wilmington Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated July 2006 and "Standard Specifications for Roads and Structures" dated July 2006.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 7 may be lagged.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current Signals and Geometrics Design Manual and submit a Plan of Record to the Signals and Geometrics Section.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Signal system data: Controller Asset #: 0335.

LEGEND

- | PROPOSED                                       | EXISTING                                       |
|--|--|
| Traffic Signal Head                            | Modified Signal Head                           |
| Modified Signal Head                           | Sign   |
| Sign   | Pedestrian Signal Head With Push Button & Sign |
| Pedestrian Signal Head With Push Button & Sign | Signal Pole with Guy                           |
| Signal Pole with Guy                           | Signal Pole with Sidewalk Guy                  |
| Signal Pole with Sidewalk Guy                  | Inductive Loop Detector                        |
| Inductive Loop Detector                        | Controller & Cabinet                           |
| Controller & Cabinet                           | Junction Box                                   |
| Junction Box                                   | 2-in Underground Conduit                       |
| 2-in Underground Conduit                       | Right of Way                                   |
| Right of Way                                   | Directional Arrow                              |
| Directional Arrow                              | No Right Turn Sign (R3-1)                      |
| No Right Turn Sign (R3-1)                      | No Left Turn Sign (R3-2)                       |
| No Left Turn Sign (R3-2)                       | Right Arrow "ONLY" Sign (R3-5R)                |
| Right Arrow "ONLY" Sign (R3-5R)                | Left Arrow "ONLY" Sign (R3-5L)                 |
| Left Arrow "ONLY" Sign (R3-5L)                 | Street Sign                                    |
| Street Sign                                    |  |

Signal Upgrade

Prepared in the Office of: **US 17 Bus.-US 76 EB-US 421 SB (Dawson Street)** at **US 17 Bus./US 421 (S. 3rd St.)**

Division 3 New Hanover County Wilmington

PLAN DATE: January 2008 REVIEWED BY: **Sterling**

PREPARED BY: **Sterling** REVIEWED BY: **Sterling**

REVISIONS: 

NO.	DESCRIPTION	INIT.	DATE

SCALE: 0 40 1"=40'

SEAL: **ROBERT J. ZIMMERMAN** ENGINEER 026486

SIG. INVENTORY NO. 03-0335