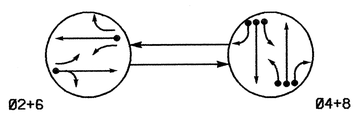
PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+6	PHASE Ø4+8	PHASE FLASH
21, 22	G	R	Y
41, 42, 43	R	G	R
61, 62	G	R	Y
81, 82	R	G	R

SIGNAL FACE I.D.

Denotes L.E.D.

21, 22
41, 42, 43
61, 62
81, 82

2070L LOOP & DETECTOR INSTALLATION

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (M)	TURNS	DISTANCE FROM STOPBAR (M)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
2A	1.8X1.8	6	130	X	2	Y	Y	-	-	-	-	Y
4A	1.8X12	2-4-2	0	X	4	Y	Y	-	-	-	3	Y
4B	1.8X12	2-4-2	0	X	4	Y	Y	-	-	-	-	Y
4C	1.8X12	2-4-2	0	X	4	Y	Y	-	-	-	15	Y
6A	1.8X1.8	6	110	X	6	Y	Y	-	-	-	-	Y
8A	1.8X12	2-4-2	0	X	8	Y	Y	-	-	-	3	Y
8B	1.8X12	2-4-2	0	X	8	Y	Y	-	-	-	-	Y
8C	1.8X12	2-4-2	0	X	8	Y	Y	-	-	-	15	Y

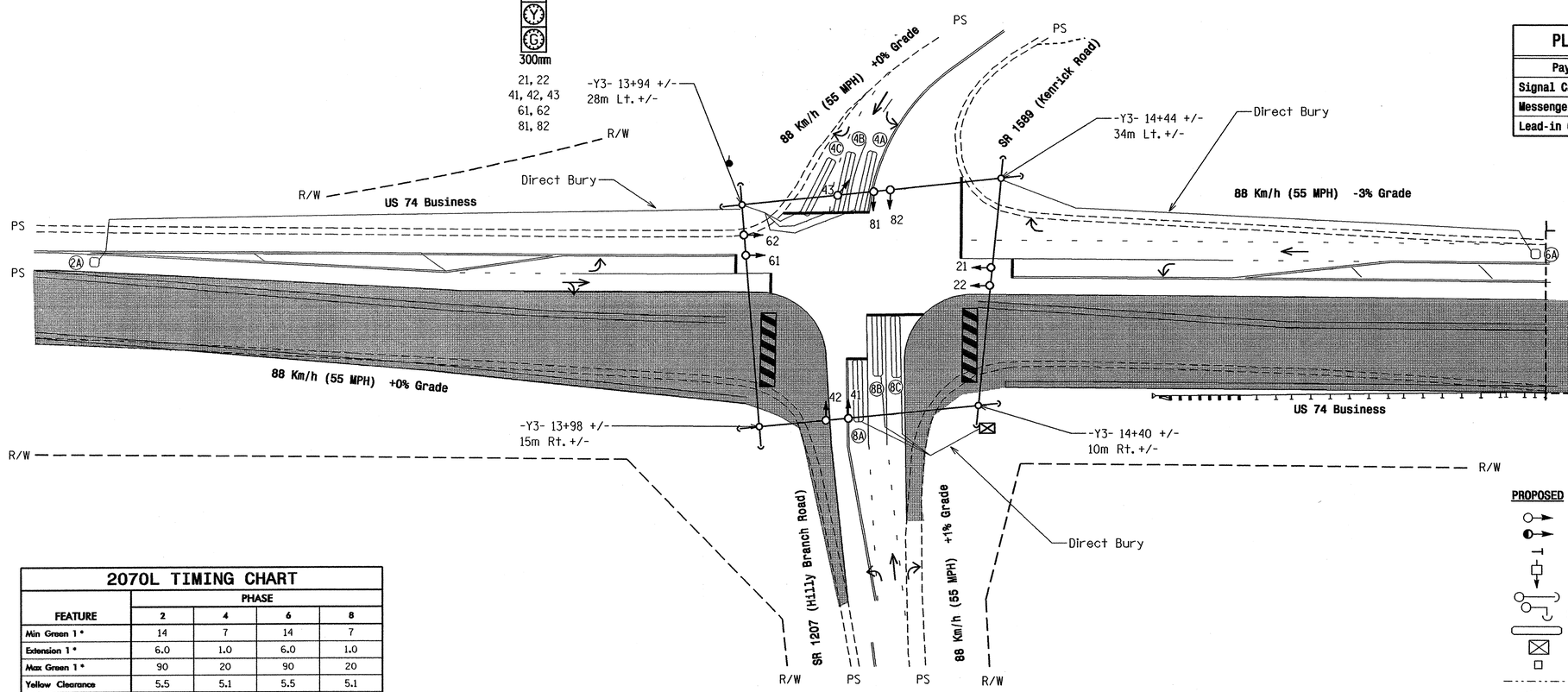
2 Phase
Fully Actuated
Isolated

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.

PLAN QUANTITIES

Pay Item	Meters
Signal Cable	290
Messenger Cable	190
Lead-in Cable	530



2070L TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6	PHASE 8
Min Green 1 *	14	7	14	7
Extension 1 *	6.0	1.0	6.0	1.0
Max Green 1 *	90	20	90	20
Yellow Clearance	5.5	5.1	5.5	5.1
Red Clearance	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	2.5	-	2.5	-
Max Variable Initial *	48	-	41	-
Time Before Reduction *	15	-	15	-
Time To Reduce *	45	-	45	-
Minimum Gap	3.4	-	3.0	-
Recall Mode	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	YELLOW	-	YELLOW	-
Dual Entry	-	ON	-	ON
Simultaneous Gap	ON	ON	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way with Marker	
	Directional Arrow	
	Pavement Marking Arrow	
	Construction Zone	

New Installation (Temporary 1 Phase I)

Prepared in the Offices of:
Signal Engineering and Safety Systems Branch
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Traffic Engineering Branch
122 N. McDowell St., Raleigh, NC 27603

SCALE 5 0 10 1:500

US 74 Business
At
SR 1207 (Hilly Branch Road)/
SR 1589 (Kenrick Road)

Division 6 | Robeson County | Lumberton
PLAN DATE: February 2004 | REVIEWED BY:
PREPARED BY: JGalloway | REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 24393 ENGINEER TIMOTHY J. WILLIAMS
SIGNATURE 2/19/04. DATE
SIG. INVENTORY NO. 06-1114 T1

03-MAR-2004 14:05
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tjwilliams