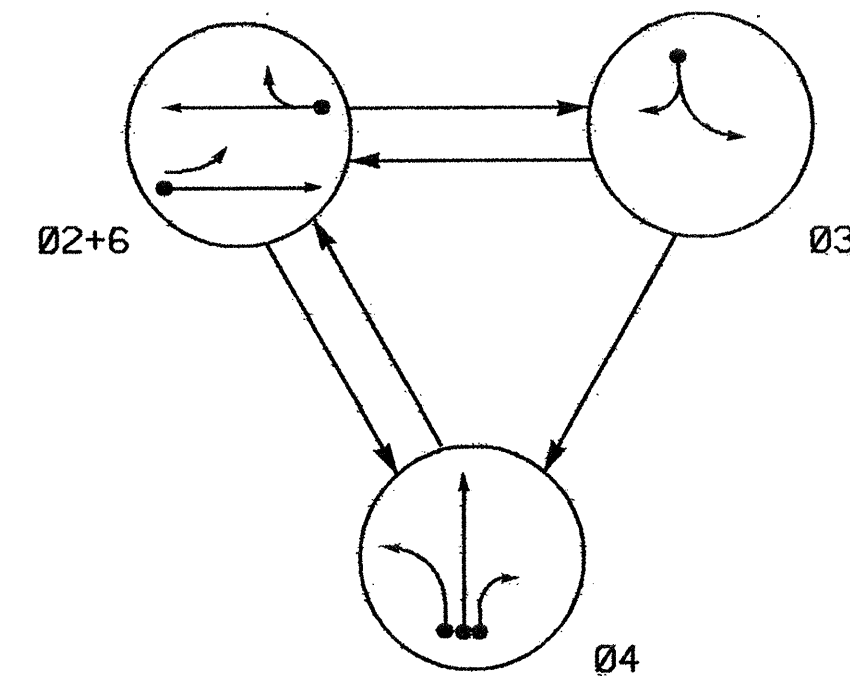


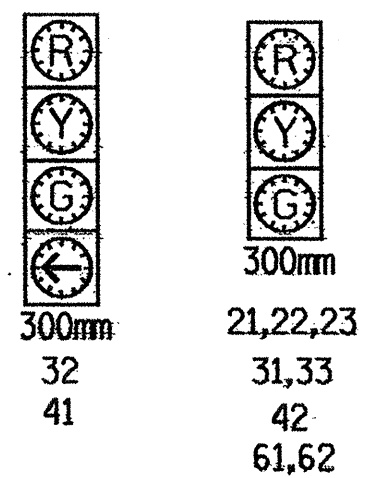
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	Ø 2+6	Ø 3	Ø 4	FLASH
21,22,23	G	R	R	Y
31,33	R	G	R	R
32	R	G	R	R
41	R	R	G	R
42	R	R	G	R
61,62	G	R	R	Y

SIGNAL FACE I.D.

Denotes L.E.D.



2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (M)	TURNS	DISTANCE FROM STOPBAR (M)	NEW LOOP	DETECTOR PROGRAMMING						
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME
2A	1.8X1.8	6	139	-	2	Y	Y	-	-	-	Y
3A	1.8X1.8	2-4-2	0	-	3	Y	Y	-	-	3	Y
3B	1.8X1.8	4	0	-	3	Y	Y	-	-	15	Y
4A	1.8X1.8	2-4-2	0	-	4	Y	Y	-	-	-	Y
4B	1.8X1.8	2-4-2	0	-	4	Y	Y	-	-	-	Y
4C	1.8X1.8	2-4-2	0	-	4	Y	Y	-	-	15	Y
6A	1.8X1.8	6	130	Y	6	Y	Y	-	-	-	Y

3-Phase Fully Actuated Isolated

NOTES

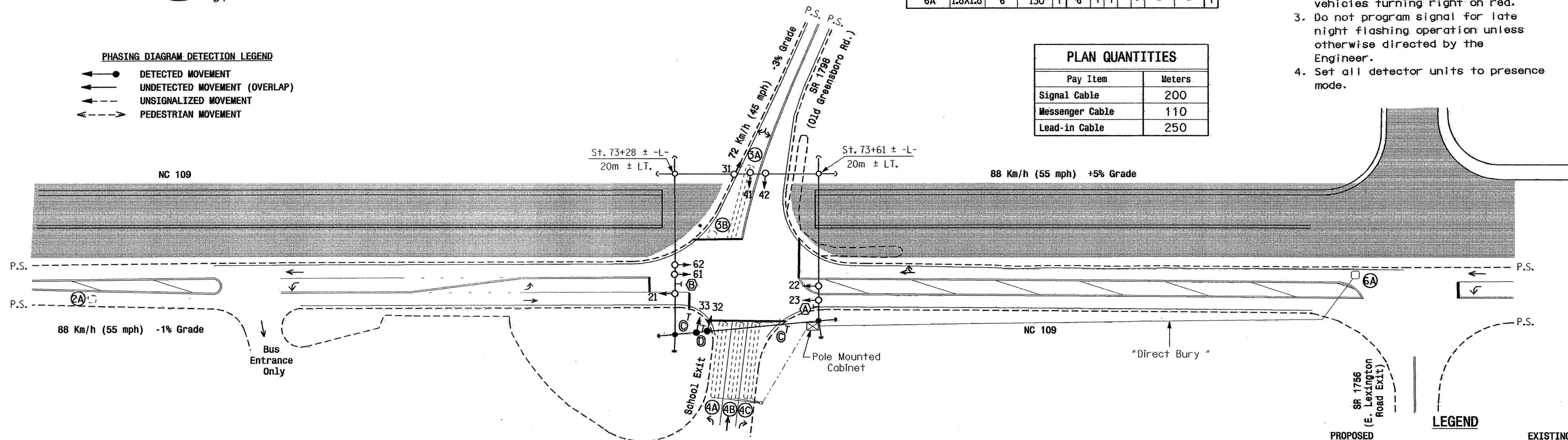
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
3. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
4. Set all detector units to presence mode.

PHASING DIAGRAM DETECTION LEGEND

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

PLAN QUANTITIES

Pay Item	Meters
Signal Cable	200
Messenger Cable	110
Lead-in Cable	250



2070L TIMING CHART

FEATURE	PHASE			
	2	3	4	6
Min Green 1*	14	7	7	14
Extension 1*	6.0	1.0	1.0	6.0
Max Green 1*	100	35	45	100
Yellow Clearance	5.2	4.0	4.0	5.2
Red Clearance	1.5	2.0	2.0	1.5
Walk 1*	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation*	2.5	-	-	2.5
Max Variable Initial*	50	-	-	47
Time Before Reduction*	15	-	-	15
Time To Reduce*	30	-	-	30
Minimum Gap	3.4	-	-	3.4
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-
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 | ● → Traffic Signal Head |
| ○ → Modified Signal Head | N/A |
| □ → 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 |
| --- 50mm Underground Conduit | --- 50mm Underground Conduit |
| N/A | → Right of Way with Marker |
| → Directional Arrow | → Directional Arrow |
| → Pavement Marking Arrow | → Pavement Marking Arrow |
| (A) No Right Turn Sign (R3-1) | (A) No Right Turn Sign (R3-1) |
| (B) No Left Turn Sign (R3-2) | (B) No Left Turn Sign (R3-2) |
| (C) "DO NOT ENTER" Sign (R5-1) | (C) "DO NOT ENTER" Sign (R5-1) |
| (D) Dual Turn arrows Sign (R3-18) | (D) Dual Turn arrows Sign (R3-18) |
| ■ Construction Zone | ■ Construction Zone |

Signal Upgrade - Temp Signal to be removed - TCP Phase I

Prepared in the Office of:

 NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 Signal and Graphics Section
 222 N. McDowell St., Raleigh, NC 27602

NC 109
 at
 SR 1798 (Old Greensboro Rd.)
 / Ledford Middle School Exit
 Division 9 Davidson County Thomasville

PLAN DATE: June 2004 REVIEWED BY: C.J. Collins
 PREPARED BY: Luhr REVIEWED BY:

SEAL

 NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 ENGINEER
 THOMAS J. WILLIAMS
 24393

7/23/04
 SIGNATURE DATE
 SIG. INVENTORY NO. 09-0812