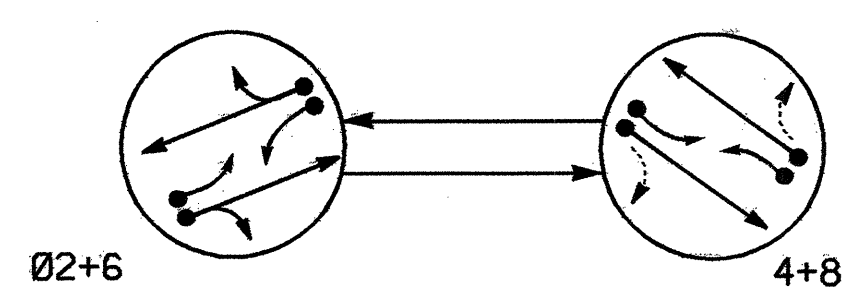


**PHASING DIAGRAM**

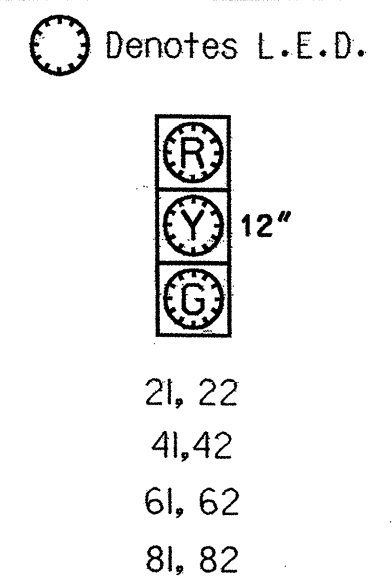


**PHASING DIAGRAM DETECTION LEGEND**  
 ● ← DETECTED MOVEMENT  
 ← UNDETECTED MOVEMENT (OVERLAP)  
 - - - UNSIGNALIZED MOVEMENT  
 ← - - - PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE		
	02+6	04+8	FLASH
2l, 22	G	R	Y
4l, 42	R	G	R
6l, 62	G	R	Y
8l, 82	R	G	R

**SIGNAL FACE I.D.**



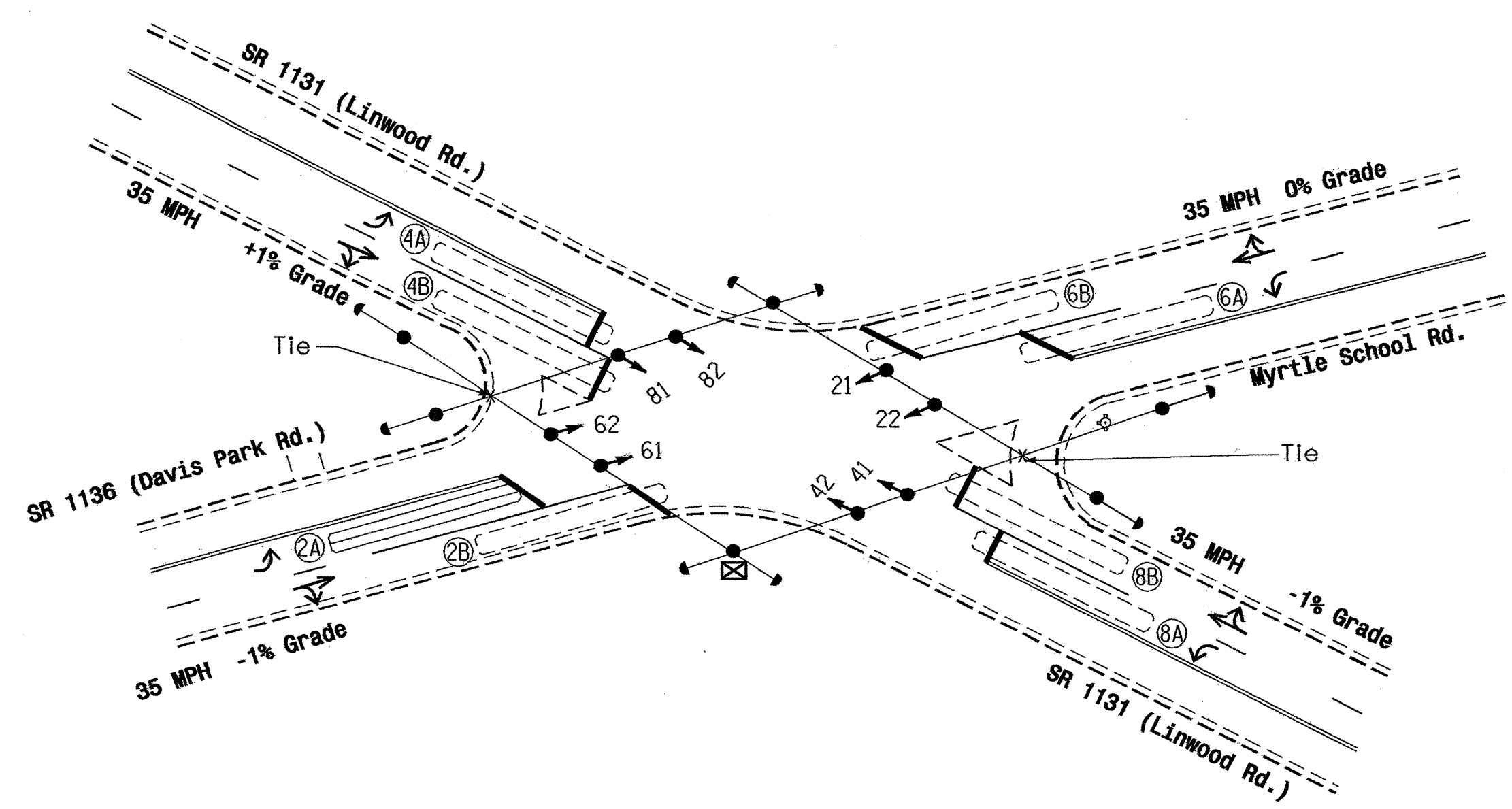
**2070L LOOP & DETECTOR INSTALLATION**

LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
2A	6X60	2-4-2	0	Y	2	Y	Y	-	-	-	3	Y
2B	EXISTING	EXISTING	EXISTING	-	2	Y	Y	-	-	-	-	Y
6A	EXISTING	EXISTING	EXISTING	-	6	Y	Y	-	-	-	3	Y
6B	EXISTING	EXISTING	EXISTING	-	6	Y	Y	-	-	-	-	Y
4A	EXISTING	EXISTING	EXISTING	-	4	Y	Y	-	-	-	3	Y
4B	EXISTING	EXISTING	EXISTING	-	4	Y	Y	-	-	-	10	Y
8A	EXISTING	EXISTING	EXISTING	-	8	Y	Y	-	-	-	3	Y
8B	EXISTING	EXISTING	EXISTING	-	8	Y	Y	-	-	-	10	Y

**2 Phase Fully Actuated (Gastonia City System)**

**NOTES**

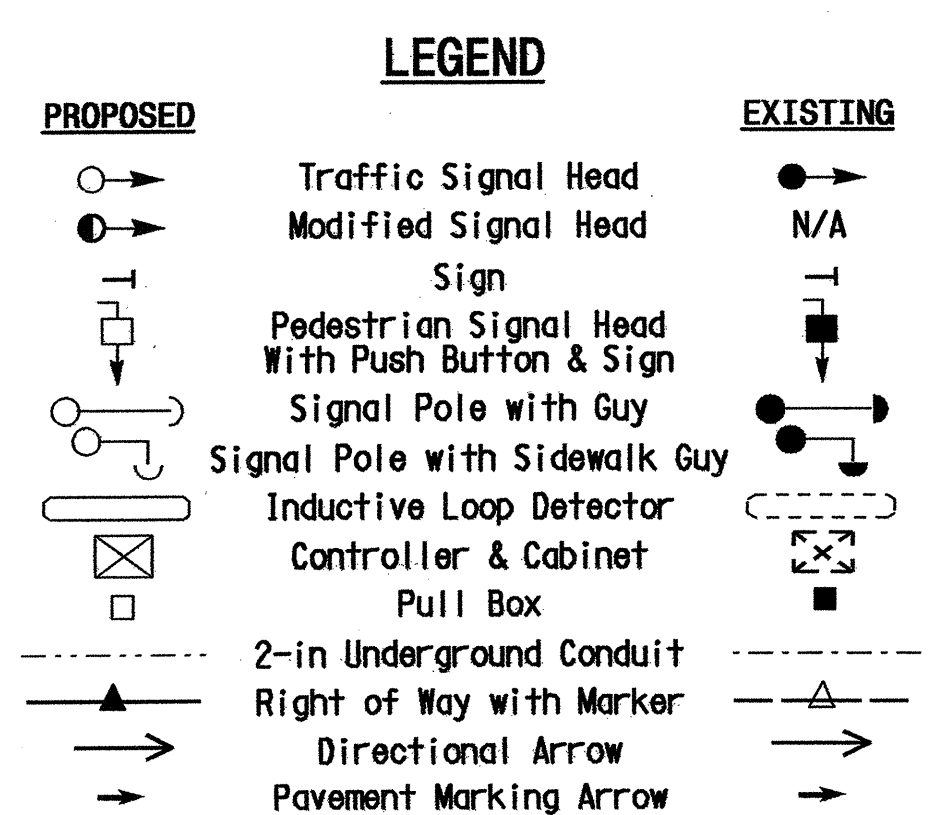
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.
4. In the event of loop replacement, refer to the current Signals and Geometrics Design Manual and submit a Plan of Record to the Signals and Geometrics Section.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Pavement markings are existing.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
8. City system data: Controller Asset #D165.



**2070L TIMING CHART**

FEATURE	PHASE			
	2	4	6	8
Min Green 1*	10	7	10	7
Extension 1*	3.0	1.0	3.0	1.0
Max Green 1*	45	25	45	25
Yellow Clearance	4.0	4.0	4.0	4.0
Red Clearance	2.2	3.4	2.2	3.4
Walk 1*	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation*	-	-	-	-
Max Variable Initial*	-	-	-	-
Time Before Reduction*	-	-	-	-
Time To Reduce*	-	-	-	-
Minimum Gap	-	-	-	-
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.



**Signal Upgrade**

Prepared in the Office of:  
  
 122 N. McDowell St., Raleigh, NC 27603

**SR 1131 (Linwood Rd.) at SR 1136 (Davis Park Rd.) / Myrtle School Rd.**

Division 12 Gaston County Gastonia  
 PLAN DATE: November 2004 REVIEWED BY:  
 PREPARED BY: C. Pierce REVIEWED BY:  
 REVISIONS INIT. DATE

SCALE: 1" = 40'

SEAL  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 SEAL 2004  
 C. E. MULLEN  
 17 DECEMBER 04  
 SIGNATURE DATE  
 SIG. INVENTORY NO. 12-0165