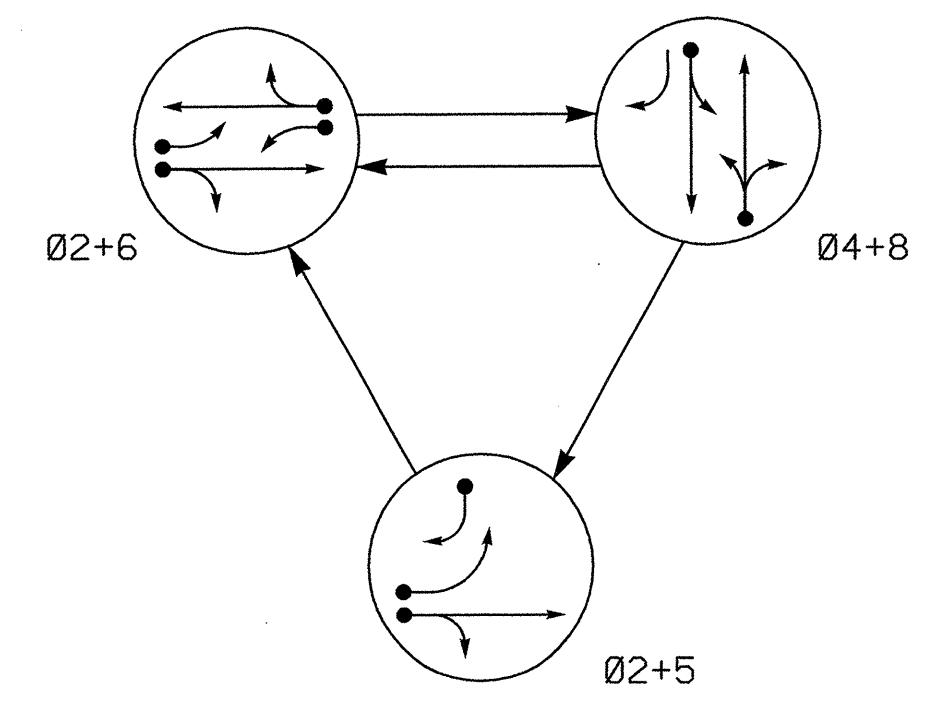


PHASING DIAGRAM

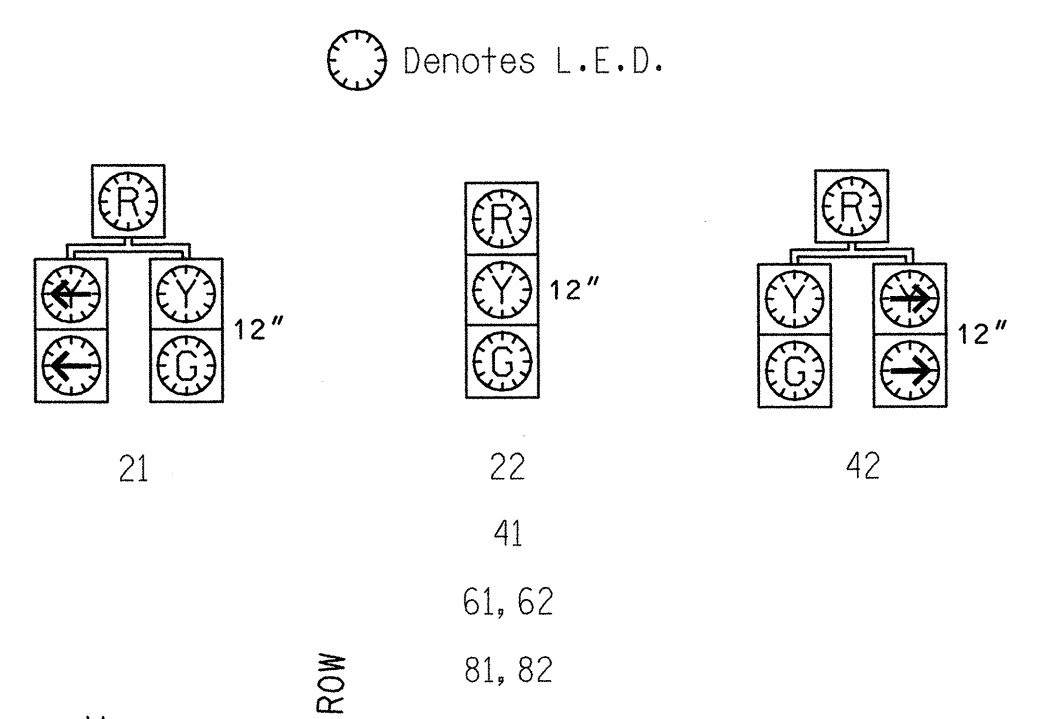


PHASING DIAGRAM DETECTION LEGEND
 ● DETECTED MOVEMENT
 ◄ UNDETECTED MOVEMENT (OVERLAP)
 — UNSIGNALIZED MOVEMENT
 <—> PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE				L-SCHEM
	02+5	02+6	04+8	04+8	
21	G	R	Y		
22	G	G	R	Y	
41	R	R	G	R	
42	R	R	G	R	
61, 62	R	G	R	Y	
81, 82	R	R	G	R	

SIGNAL FACE I.D.



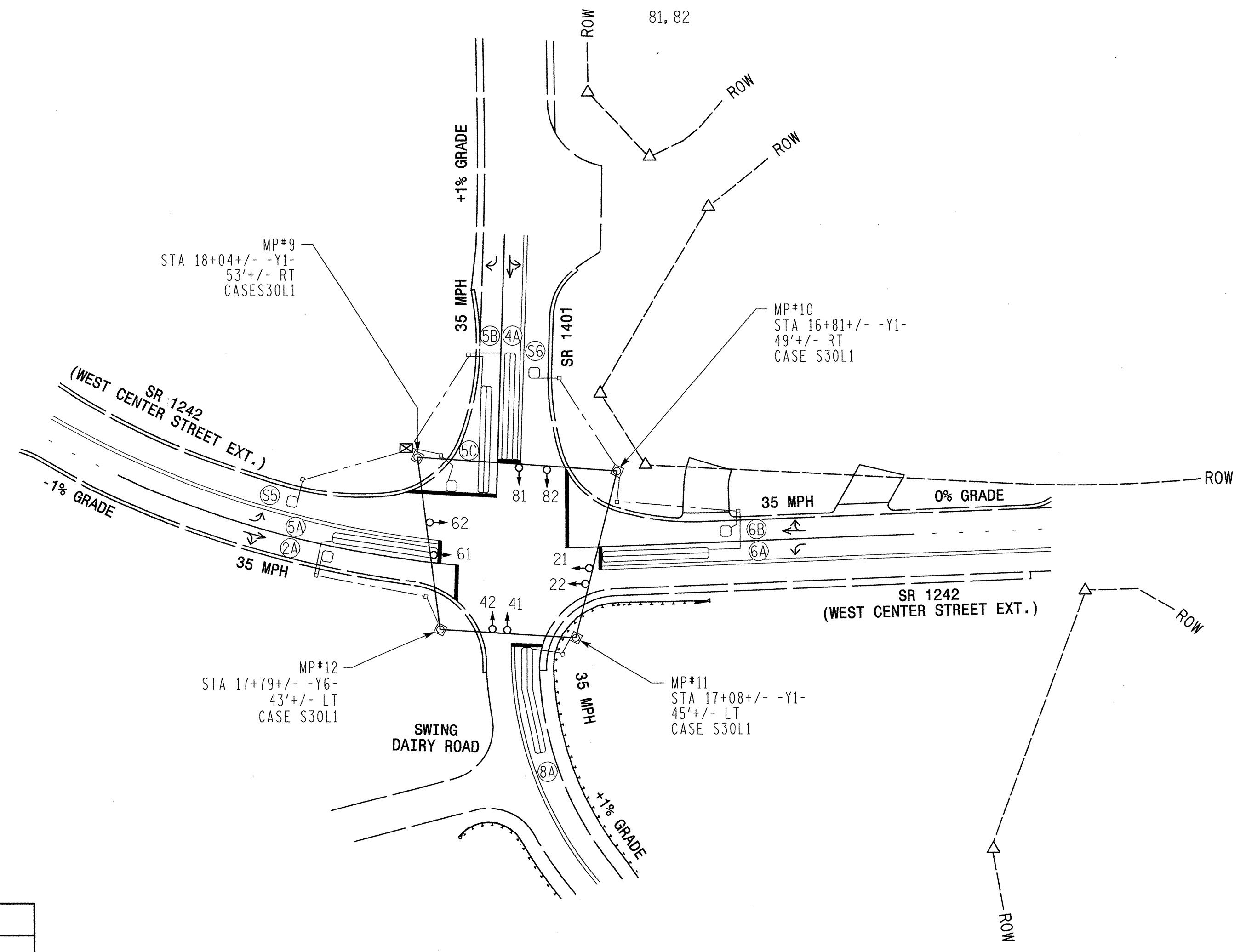
PLAN QUANTITIES

Pay Item	Feet
Signal Cable	650
Messenger Cable	390
Lead-in Cable	1760

3 PHASE FULLY ACTUATED (CENTER STREET CLOSED LOOP SYSTEM)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Omit phase 5 during phase 6 on.
- Program controller to clear from phase 2+6 to phase 2+5 by progressing through phase 4+8 (see Electrical Details).
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- Set all detector units to presence mode.
- Closed loop system data: Controller Asset No.: 1286



2070L TIMING CHART

FEATURE	PHASE				
	2	4	5	6	8
Min Green 1*	10	7	7	10	7
Extension 1*	3.0	1.0	1.0	3.0	1.0
Max Green 1*	35	25	15	35	25
Yellow Clearance	4.0	4.0	4.0	4.0	4.0
Red Clearance	2.0	2.0	1.5	2.0	2.0
Walk 1*	-	-	-	-	-
Don't Walk 1	-	-	-	-	-
Seconds Per Actuation*	-	-	-	-	-
Max Variable Initial*	-	-	-	-	-
Time Before Reduction*	-	-	-	-	-
Time To Reduction*	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Recall Mode	MIN RECALL	-	-	MIN RECALL	-
Vehicle Call Memory	YELLOW	-	-	YELLOW	-
Dual Entry	-	ON	-	-	ON
Simultaneous Gap	ON	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.

2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	DETECTOR PROGRAMMING					NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME		DELAY TIME
2A	6X6	4	70	Y	02	Y	Y	-	-	-	Y
4A	6X60	2-4-2	0	Y	04	Y	Y	-	-	3	Y
5A	6X60	2-4-2	0	Y	05	Y	Y	-	-	15	Y
					02	Y	Y	-	-	-	Y
5B	6X60	2-4-2	0	Y	05	Y	Y	-	-	15	Y
5C	6X6	4	0	Y	05	Y	Y	-	-	15	Y
6A	6X60	2-4-2	0	Y	06	Y	Y	-	-	-	Y
6B	6X6	4	70	Y	06	Y	Y	-	-	-	Y
8A	6X60	2-4-2	0	Y	08	Y	Y	-	-	10	Y
S5	6X6	4	+150	Y	-	-	-	Y	-	-	Y
S6	6X6	4	+150	Y	-	-	-	Y	-	-	Y

LEGEND

PROPOSED	EXISTING
○ Traffic Signal Head	● N/A
● Modified Signal Head Sign	— N/A
⊥ Pedestrian Signal Head With Push Button & Sign	⊥ N/A
○ Signal Pole with Guy	⊥ N/A
⊥ Signal Pole with Sidewalk Guy	⊥ N/A
□ Inductive Loop Detector	□ N/A
⊠ Controller & Cabinet	⊠ N/A
□ Junction Box	□ N/A
— 2-in Underground Conduit	— N/A
N/A Right of Way with Marker	△ N/A
→ Directional Arrow	→ N/A
→ Pavement Marking Arrow	→ N/A
□ Metal Strain Pole	□ N/A
N/A Guardrail	— N/A

NEW INSTALLATION

Prepared for: **SR 1242 (WEST CENTER STREET EXTENSION) AT SR 1401 AND SWING DAIRY ROAD**

DIVISION 9 DAVIDSON COUNTY LEXINGTON

PLAN DATE: JUNE 2003 REVIEWED BY: KBISBY

PREPARED BY: FDVESS REVIEWED BY:

222 N. McDowell St., Raleigh, NC 27603

SCALE: 1" = 50'

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER

SIGNATURE: *Kim B. Bab* DATE: 7/22/03

SIG. INVENTORY NO.: 09-1286