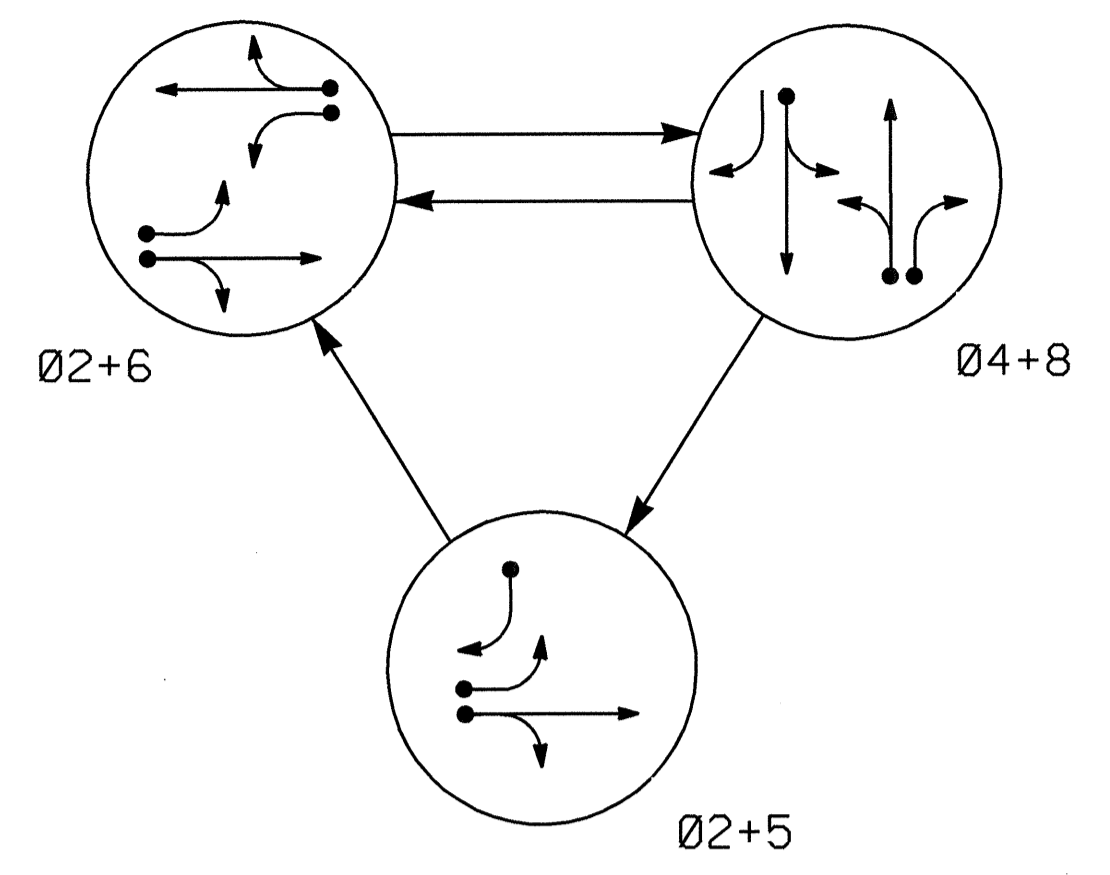
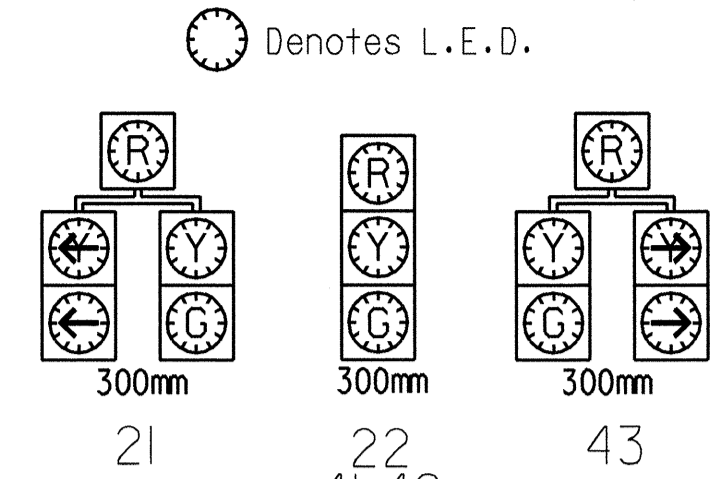


PHASING DIAGRAM



SIGNAL FACE	PHASE				
	Ø2+5	Ø2+6	Ø4+8	FLIGHT	ISOLATED
21	G	R	Y		
22	G	G	R	Y	
41,42	R	R	G	R	
43	R	R	G	R	
61,62	R	G	R	Y	
81,82	R	R	G	R	

SIGNAL FACE I.D.



2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (M)	TURNS	DISTANCE FROM STOPBAR (M)	DETECTOR PROGRAMMING								
				PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD	
2A	1.8X1.8	4	21	Y	2	Y	Y	-	-	-	-	-
4A	1.8X1.8	2-4-2	0	Y	4	Y	Y	-	-	-	3	-
5A	1.8X1.8	2-4-2	0	Y	5	Y	Y	-	-	-	15	-
5B	1.8X1.8	2-4-2	0	Y	5	Y	Y	-	-	-	15	-
6A	1.8X1.8	4	21	Y	6	Y	Y	-	-	-	-	-
6B	1.8X1.8	2-4-2	0	Y	6	Y	Y	-	-	-	-	-
8A	1.8X1.8	2-4-2	0	Y	8	Y	Y	-	-	-	3	-
8B	1.8X1.8	2-4-2	0	Y	8	Y	Y	-	-	-	10	-

3 Phase Actuated (Isolated)

NOTES

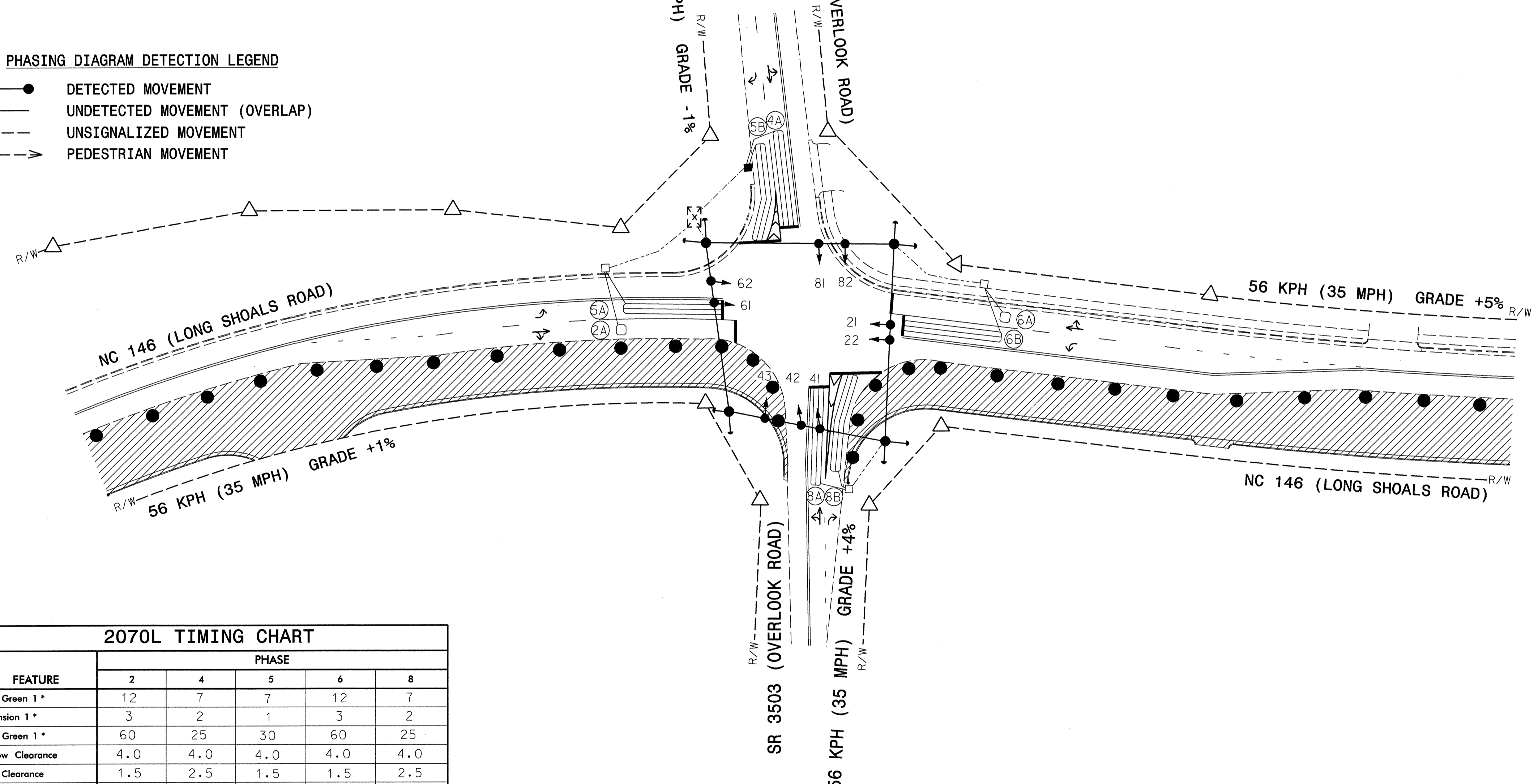
- REFER TO "ROADWAY STANDARD DRAWINGS NCDOT", DATED JANUARY 2002 AND "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2002.
- REPOSITION EXISTING SIGNAL HEADS NUMBERED 21, 22, 61, 62, 81 AND 82.
- OMIT PHASE 5 DURING PHASE 6 ON.
- PROGRAM CONTROLLER TO CLEAR FROM PHASE 2+6 TO PHASE 2+5 BY PROGRESSING THROUGH PHASE 4+8 (SEE ELECTRICAL DETAILS)
- 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	---
Messenger Cable	---
Lead-in Cable	410



2070L TIMING CHART

FEATURE	PHASE				
	2	4	5	6	8
Min Green 1*	12	7	7	12	7
Extension 1*	3	2	1	3	2
Max Green 1*	60	25	30	60	25
Yellow Clearance	4.0	4.0	4.0	4.0	4.0
Red Clearance	1.5	2.5	1.5	1.5	2.5
Walk 1*	-	-	-	-	-
Don't Walk 1	-	-	-	-	-
Seconds Per Actuation*	-	-	-	-	-
Max Variable Initial*	-	-	-	-	-
Time Before Reduction*	-	-	-	-	-
Time To Reduce*	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Recall Mode	MIN RECALL	-	-	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.

LEGEND

- |     |  |     |          |
|-----|--|-----|----------|
| ○→  | Traffic Signal Head                            | ●→  | EXISTING |
| ●→  | 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                                   | ⊥   |          |
| ⊥   | 50mm Underground Conduit                       | ⊥   |          |
| N/A | Right of Way with Marker                       | △   |          |
| →   | Directional Arrow                              | →   |          |
| ▨   | Construction Zone                              |     |          |
| ●   | Construction Barrels                           |     |          |

TEMPORARY SIGNAL 3 - PHASE II TCP 25

<p><b>PLANS PREPARED BY :</b> RUMMEL KLEPPER &amp; KAHL, LLP consulting engineers 5800 FARINGDON PLACE SUITE 105 RALEIGH, NORTH CAROLINA 27609-3960</p> <p>FOR <b>DIVISION OF HIGHWAYS</b></p>	<p>122 N. McDowell St., Raleigh, NC 27603</p>	<p>NC 146 (LONG SHOALS ROAD) AT SR 3503 (OVERLOOK ROAD)</p>		<p>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER DONALD W. MORTON 19798</p>
		<p>Prepared for the Offices of: DIVISION 13 BUNCOMBE COUNTY ASHEVILLE</p> <p>PLAN DATE: 02-06-04 REVIEWED BY: D. MORTON PREPARED BY: J. COLE R&amp;K PROJECT NO. 302-079-SIG4</p>	<p>REVISIONS</p> <p>INIT. DATE</p>	