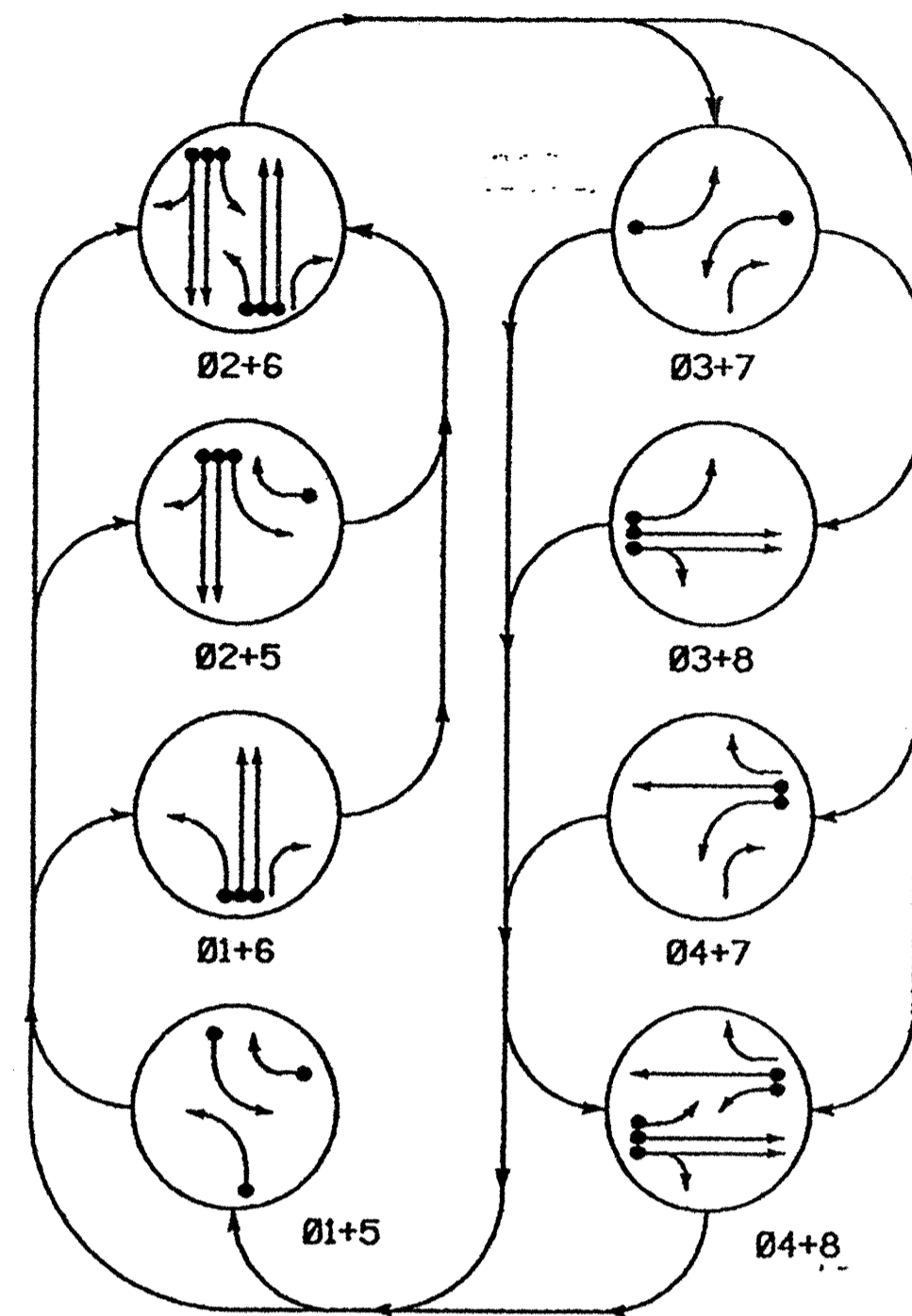


**PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

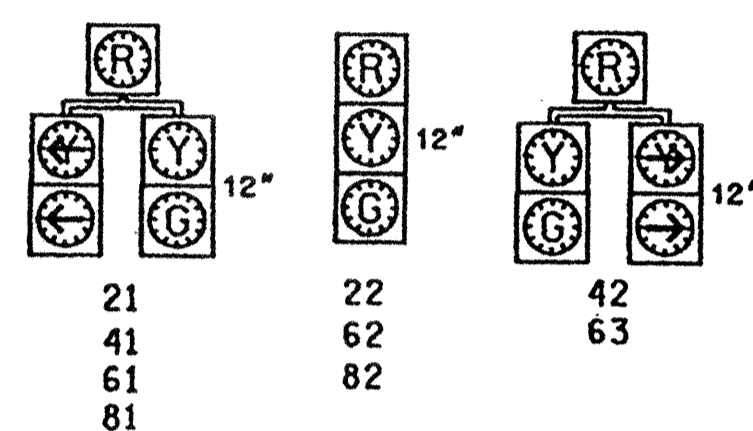
- ◄● DETECTED MOVEMENT
- ◄◄ UNDETECTED MOVEMENT (OVERLAP)
- ◄◄◄ UNSIGNALIZED MOVEMENT
- ◄◄◄◄ PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE							
	Ø1+5	Ø2+5	Ø2+6	Ø3+7	Ø3+8	Ø4+7	Ø4+8	PEDEST
21	R	R	G	R	R	R	R	Y
22	R	R	G	R	R	R	R	Y
41	R	R	R	R	R	G	G	R
42	R	R	R	R	R	G	G	R
61	R	R	G	R	R	R	R	Y
62	R	R	G	R	R	R	R	Y
63	R	R	G	R	R	R	R	Y
81	R	R	R	R	R	G	G	R
82	R	R	R	R	R	G	G	R

**SIGNAL FACE I.D.**

◉ Denotes L.E.O.



**2070L LOOP & DETECTOR INSTALLATION**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CAB
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	15	-	Y
2A	6X6	300	6	Y	2	Y	Y	-	-	3	-	Y
2B	6X6	300	6	Y	2	Y	Y	-	-	-	-	Y
3A	6X40	0	2-4-2	Y	3	Y	Y	-	-	15	-	Y
4A	6X6	300	6	Y	4	Y	Y	-	-	3	-	Y
4B	6X40	0	2-4-2	Y	4	Y	Y	2.0	5	-	-	Y
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	15	-	Y
5B	6X40	0	2-4-2	Y	5	Y	Y	-	-	15	-	Y
6A	6X6	300	6	Y	6	Y	Y	-	-	-	-	Y
6B	6X6	300	6	Y	6	Y	Y	-	-	-	-	Y
7A	6X40	0	2-4-2	Y	7	Y	Y	-	-	3	-	Y
7B	6X40	0	2-4-2	Y	7	Y	Y	-	-	15	-	Y
8A	6X6	300	5	Y	8	-	-	-	-	-	-	Y
8B	6X6	300	5	Y	8	-	-	-	-	-	-	Y
8C	6X40	0	2-4-2	Y	8	Y	Y	2.0	5	-	-	Y
8D	6X40	0	2-4-2	Y	8	Y	Y	2.0	5	-	-	Y

**8-Phase Fully Actuated (Isolated)**

**NOTES**

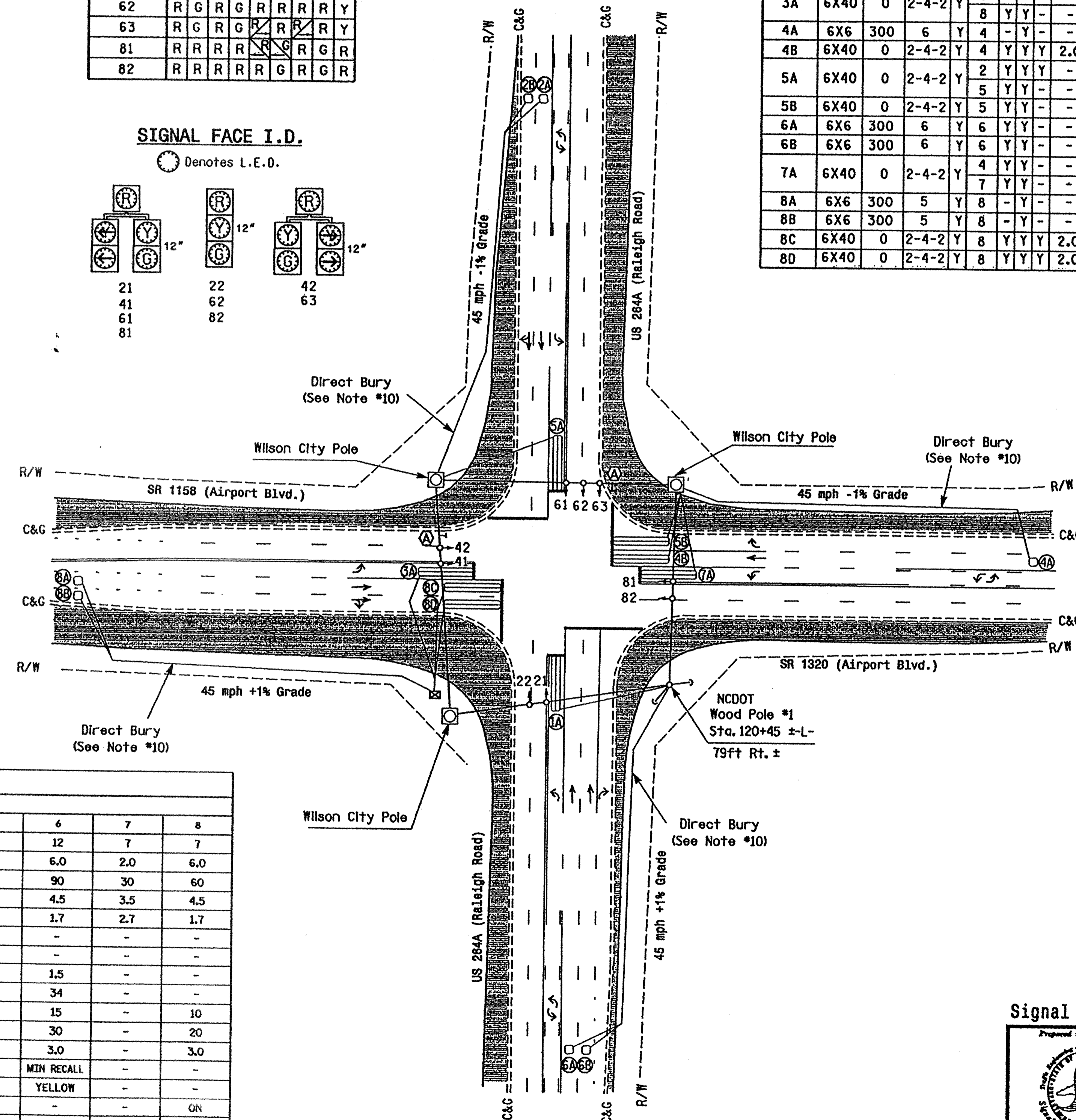
- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Omit phase 1 during phase 2 on.
- Omit phase 5 during phase 6 on.
- Omit phase 3 during phase 4 on.
- Omit phase 7 during phase 8 on.
- Program controller to clear from phase 2+6 to phase 1 and/or 5 by progressing through phase 4+8 (see Electrical Details).
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- The contractor is required to maintain all lead-in cable during the construction phases.

**PLAN QUANTITIES**

Pay Item	Feet
Signal Cable	930
Messenger Cable	650
Lead-in Cable	2750

**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED Traffic Signal Head                            |  | EXISTING Traffic Signal Head                            |
|  | PROPOSED Modified Signal Head                           |  | EXISTING Modified Signal Head                           |
|  | PROPOSED Sign   |  | EXISTING Sign   |
|  | PROPOSED Pedestrian Signal Head With Push Button & Sign |  | EXISTING Pedestrian Signal Head With Push Button & Sign |
|  | PROPOSED Signal Pole with Guy                           |  | EXISTING Signal Pole with Guy                           |
|  | PROPOSED Signal Pole with Sidewalk Guy                  |  | EXISTING Signal Pole with Sidewalk Guy                  |
|  | PROPOSED Inductive Loop Detector                        |  | EXISTING Inductive Loop Detector                        |
|  | PROPOSED Controller & Cabinet                           |  | EXISTING Controller & Cabinet                           |
|  | PROPOSED Junction Box                                   |  | EXISTING Junction Box                                   |
|  | PROPOSED 2-in Underground Conduit                       |  | EXISTING 2-in Underground Conduit                       |
|  | PROPOSED Right of Way                                   |  | EXISTING Right of Way                                   |
|  | PROPOSED Directional Arrow                              |  | EXISTING Directional Arrow                              |
|  | PROPOSED Pavement Marking Arrow                         |  | EXISTING Pavement Marking Arrow                         |
|  | PROPOSED Construction Zone                              |  | EXISTING Construction Zone                              |
|  | PROPOSED Right Arrow "ONLY" Sign (R3-5R)                |  | EXISTING Right Arrow "ONLY" Sign (R3-5R)                |



**2070L TIMING CHART**

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1*	7	12	7	7	7	12	7	7
Extension 1*	2.0	6.0	2.0	6.0	2.0	6.0	2.0	6.0
Max Green 1*	30	90	30	60	30	90	30	60
Yellow Clearance	3.5	4.6	3.5	4.6	3.5	4.5	3.5	4.5
Red Clearance	2.7	1.8	2.7	1.6	2.9	1.7	2.7	1.7
Walk 1*	-	-	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-	-	-
Seconds Per Actuation*	-	1.5	-	-	-	1.5	-	-
Max Variable Initial*	-	34	-	-	-	34	-	-
Time Before Reduction*	-	15	-	10	-	15	-	10
Time To Reduce*	-	30	-	20	-	30	-	20
Minimum Gap	-	3.0	-	3.0	-	3.0	-	3.0
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	ON	-	-	-	ON
Simultaneous Gap	ON	ON	ON	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.

**Signal Upgrade - Temporary Signal**

SEAL  
NORTH CAROLINA  
PROFESSIONAL ENGINEER  
T. J. WILLIAMS  
24393

**US 264A (Raleigh Road)**  
at  
**SR 1320 (Airport Blvd.) / SR 1158 (Airport Blvd.)**

Division 4 Wilson County Wilson  
 PLAN DATE: May 2005 REVIEWED BY: T.J. Williams  
 PREPARED BY: Lühr REVIEWED BY:  
 REVISIONS: INIT. DATE

0 SCALE 50  
1"=50'

SEAL  
NORTH CAROLINA  
PROFESSIONAL ENGINEER  
T. J. WILLIAMS  
24393

7. J. Williams 5/27/05  
DATE  
SIG. INVENTORY NO. 04-0478 I

27-444-2005 08:20  
 v:\proj\04-0478\04-0478.dwg  
 11/18/05