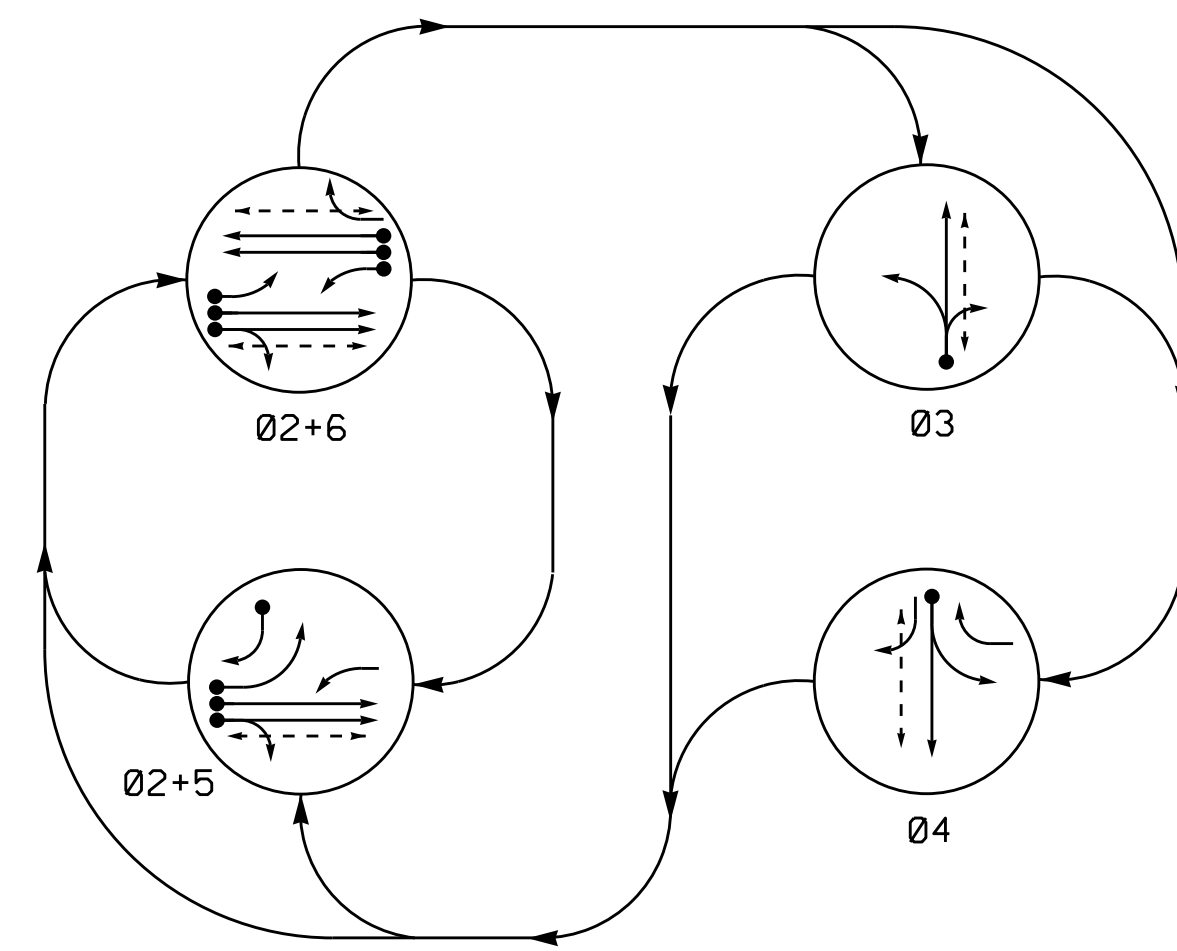


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE				
	0 2 + 5	0 2 + 6	0 3	0 4	F
21, 22, 23	G	G	R	R	Y
31	R	R	G	R	R
32	R	R	G	R	R
41	R	R	R	G	R
42	R	R	R	G	R
51	F	F	R	R	Y
61	F	F	R	R	Y
62	R	G	R	R	Y
63	R	G	R	R	Y
P21, P22	W	W	DW	DW	DRK
P31, P32	DW	DW	W	DW	DRK
P41, P42	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	DW	DRK

W - Walk
 DW - Don't Walk
 DRK - Dark

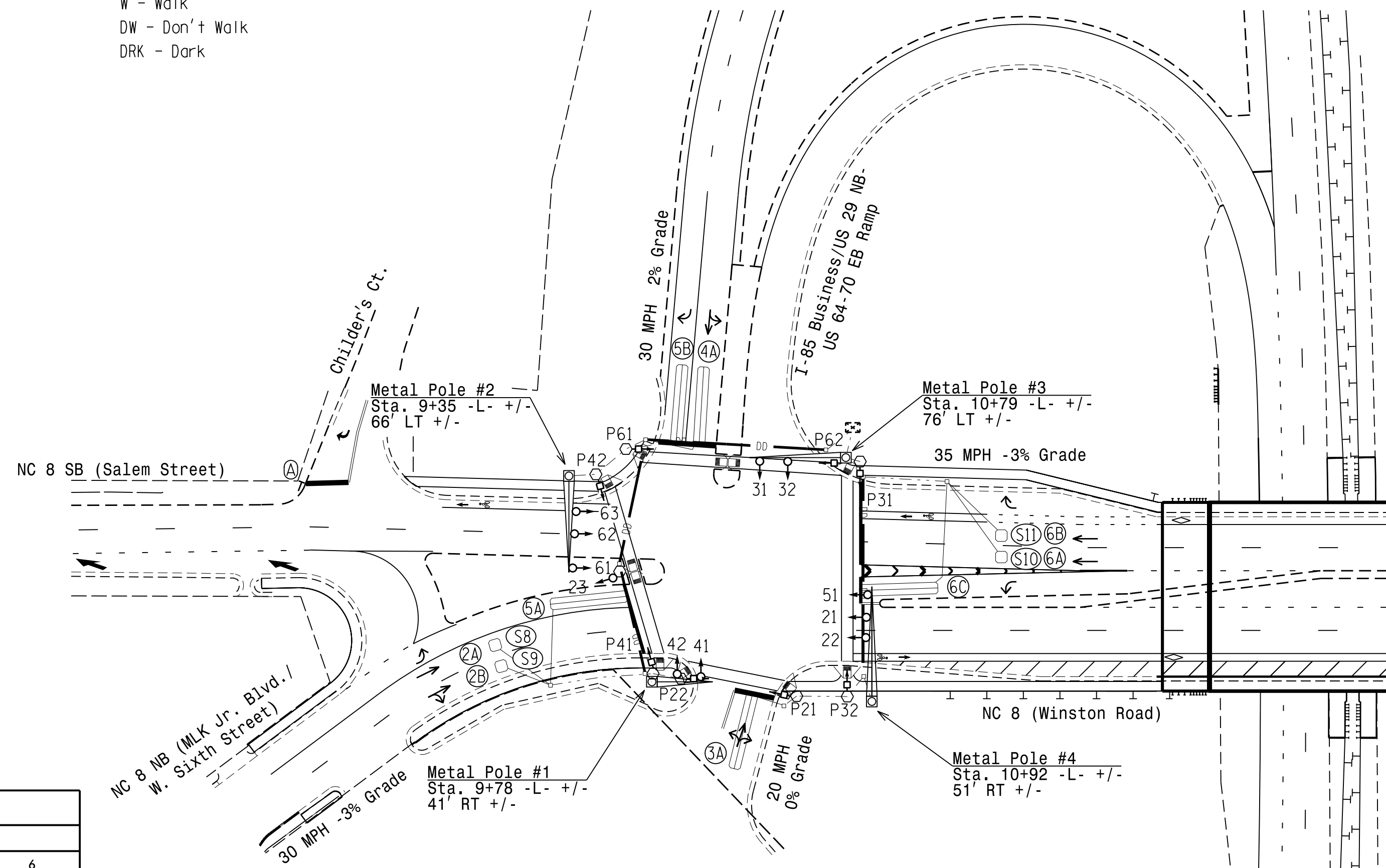
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

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 CARD
2A/S8	6X6	0	4	Y	2	Y	Y	-	-	-	Y	Y
2B/S9	6X6	0	4	Y	2	Y	Y	-	-	-	Y	Y
3A	6X40	0	2-4-2	Y	3	Y	Y	-	-	5	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	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/S10	6X40	0	2-4-2	Y	6	Y	Y	-	-	-	-	Y
6B/S11	6X40	0	2-4-2	Y	6	Y	Y	-	-	-	-	Y
6C	6X40	0	2-4-2	Y	6	Y	Y	-	-	-	-	Y

4 Phase Fully Actuated (Lexington NC 8 CLS)

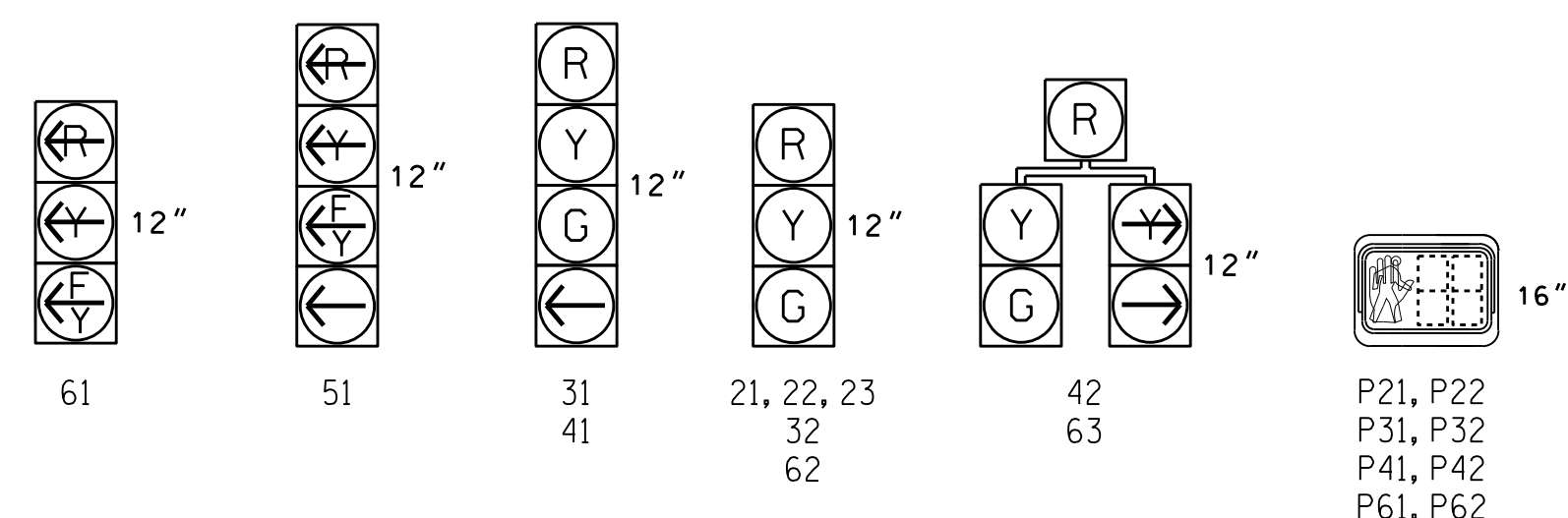
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 5 may be lagged.
4. The order of phase 3 and phase 4 may be reversed.
5. Set all detector units to presence mode.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
10. Closed loop system data:
 Controller Asset #: 0734.
11. All signal heads and visors shall be black in color.



SIGNAL FACE I.D.

All Heads L.E.D.



OASIS 2070 TIMING CHART

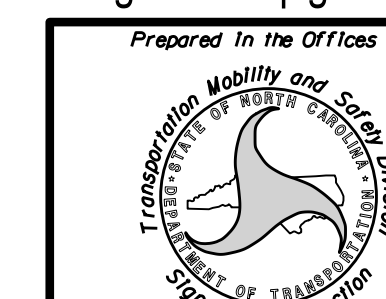
FEATURE	PHASE				
	2	3	4	5	6
Min Green 1 *	10	7	7	7	10
Extension 1 *	3.0	2.0	2.0	2.0	3.0
Max Green 1 *	50	15	25	20	50
Yellow Clearance	4.1	3.0	3.4	3.0	4.1
Red Clearance	2.5	3.6	3.2	3.3	2.5
Walk 1 *	7	4	4	-	7
Don't Walk 1	11	26	23	-	25
Seconds Per Actuation *	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Recall Mode	MIN RECALL	-	-	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	-	-	YELLOW
Dual Entry	-	-	-	-	-
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.

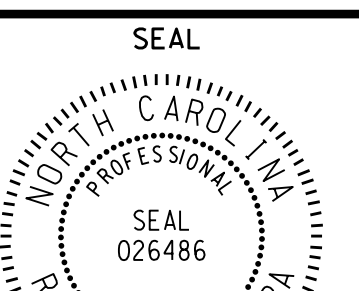
LEGEND

- | PROPOSED | EXISTING |
|--|-------------------------------|
| Traffic Signal Head | Traffic Signal Head |
| Modified Signal Head | N/A |
| Sign | N/A |
| Pedestrian Signal Head With Push Button & Sign | Pedestrian Signal Head |
| 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 |
| 2-in Underground Conduit | 2-in Underground Conduit |
| N/A | Right of Way |
| Directional Arrow | Directional Arrow |
| N/A | Metal Pole with Mastarm |
| Directional Drill | N/A |
| Type I Pushbutton Post | Type I Pushbutton Post |
| N/A | Type II Signal Pedestal |
| Curbed Ramp | Curbed Ramp |
| "STOP" Sign (R1-1) | "STOP" Sign (R1-1) |

Signal Upgrade - Final Design



Prepared In the Offices of:
NC 8 (Winston Rd./W. Sixth St.)
 at
I-85 Business/US 29 NB- US 64-70 EB Ramps
 Division 9 Davidson County Lexington
 PLAN DATE: May 2015 REVIEWED BY:
 PREPARED BY: I. O. Umozurike REVIEWED BY:



750 N. Greenfield Pkwy, Garner, NC 27529	
SCALE 0 50 1"=50'	DATE 6/30/2015
SIG. INVENTORY NO. 09-0734	