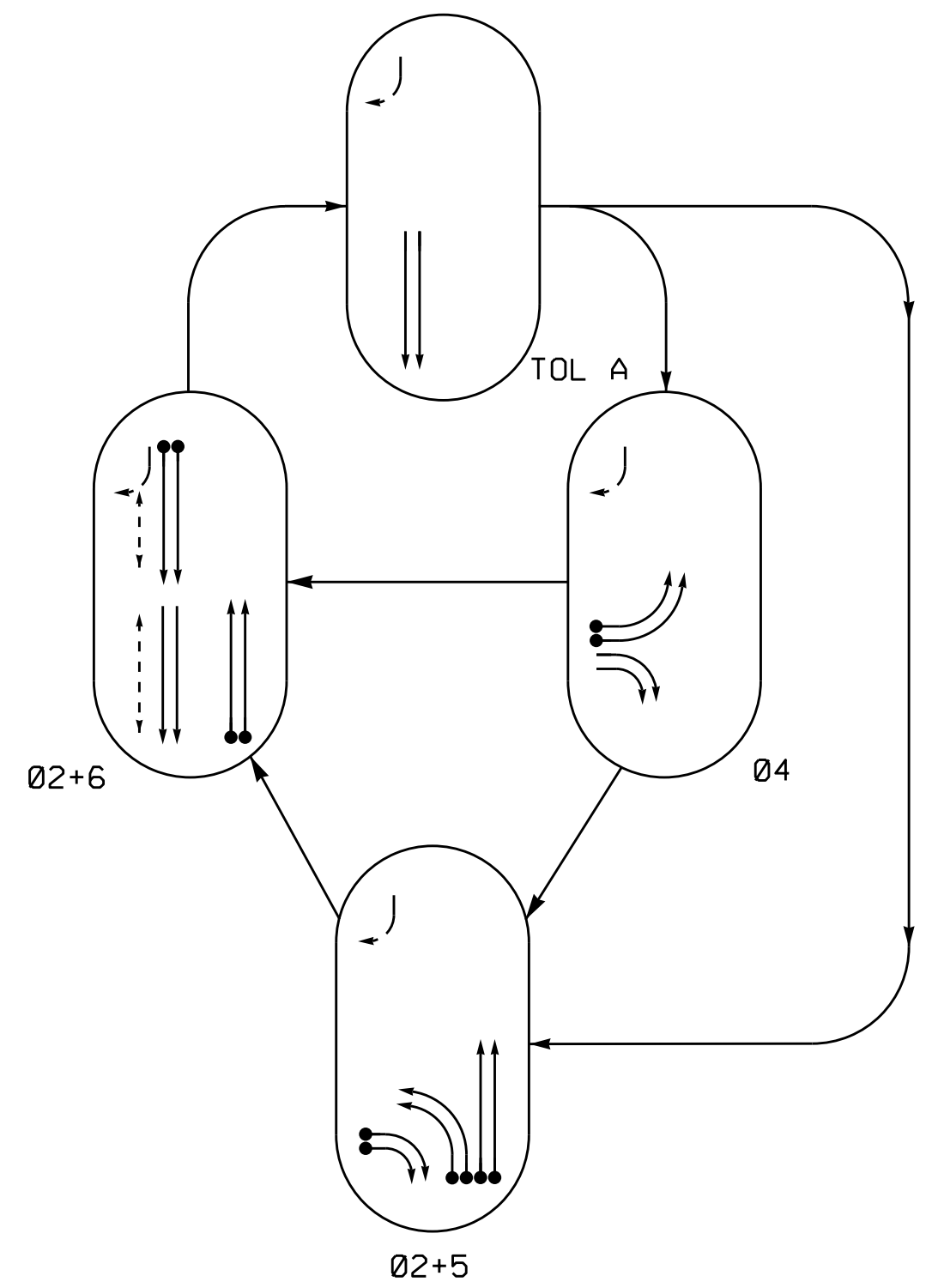
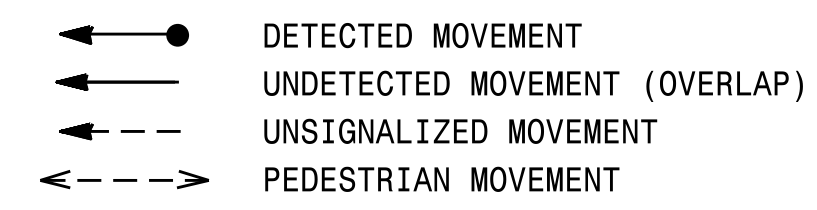


PHASING DIAGRAM

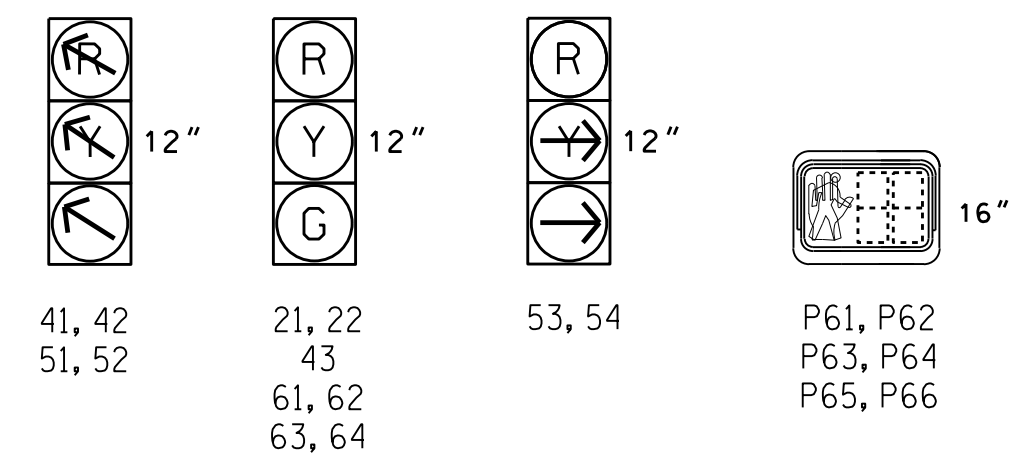


PHASING DIAGRAM DETECTION LEGEND



SIGNAL FACE I.D.

All Heads L.E.D.



SIGNAL FACE	PHASE				
	02+5	02+6	TOL A	04	02+5
21, 22	G	G	R	R	Y
41, 42	W	W	W	W	W
43	R	R	R	G	R
51, 52	W	W	W	W	W
53, 54	W	R	R	W	R
61, 62	R	G	R	R	Y
63, 64	R	G	G	R	Y
P61, P62	DW	W	DW	DW	DRK
P63, P64	DW	W	DW	DW	DRK
P65, P66	DW	W	DW	DW	DRK

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

LOOP & DETECTOR UNIT INSTALLATION CHART  
NAZTEC APOGEE SOFTWARE 2070 CONTROLLER

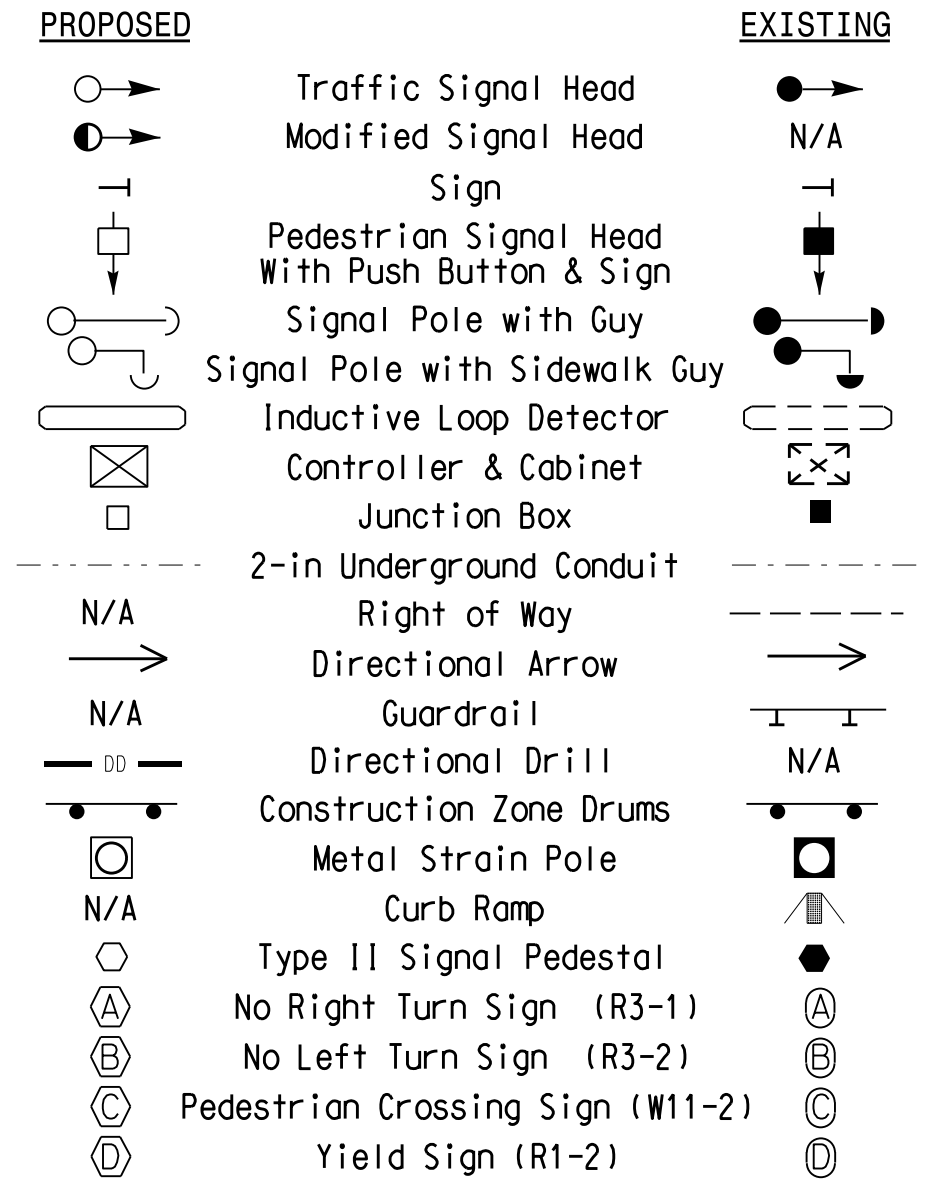
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING								
					PHASE	SWITCH (PHASE)	DELAY TIME	STRETCH TIME	CALLING EXTENSION	ADDED INIT.	SYSTEM LOOP	NEW CARD	
2A	6X6	300	5	X	2	-	-	-	X	X	X	-	X
2B	6X6	300	5	X	2	-	-	-	X	X	X	-	X
4A	6X40	0	2-4-2	X	4	-	-	-	X	X	-	-	X
4B	6X40	0	2-4-2	X	4	-	-	-	X	X	-	-	X
5A	6X40	0	2-4-2	X	5	-	-	-	X	X	-	-	X
5B	6X40	0	2-4-2	X	5	-	-	-	X	X	-	-	X
5C	6X40	0	2-4-2	X	5	-	15	-	X	X	-	-	X
5D	6X40	0	2-4-2	X	5	-	15	-	X	X	-	-	X
6A	6X6	300	5	X	6	-	-	-	X	X	X	-	X
6B	6X6	300	5	X	6	-	-	-	X	X	X	-	X

3 Phase Fully Actuated (Greensboro Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 5 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

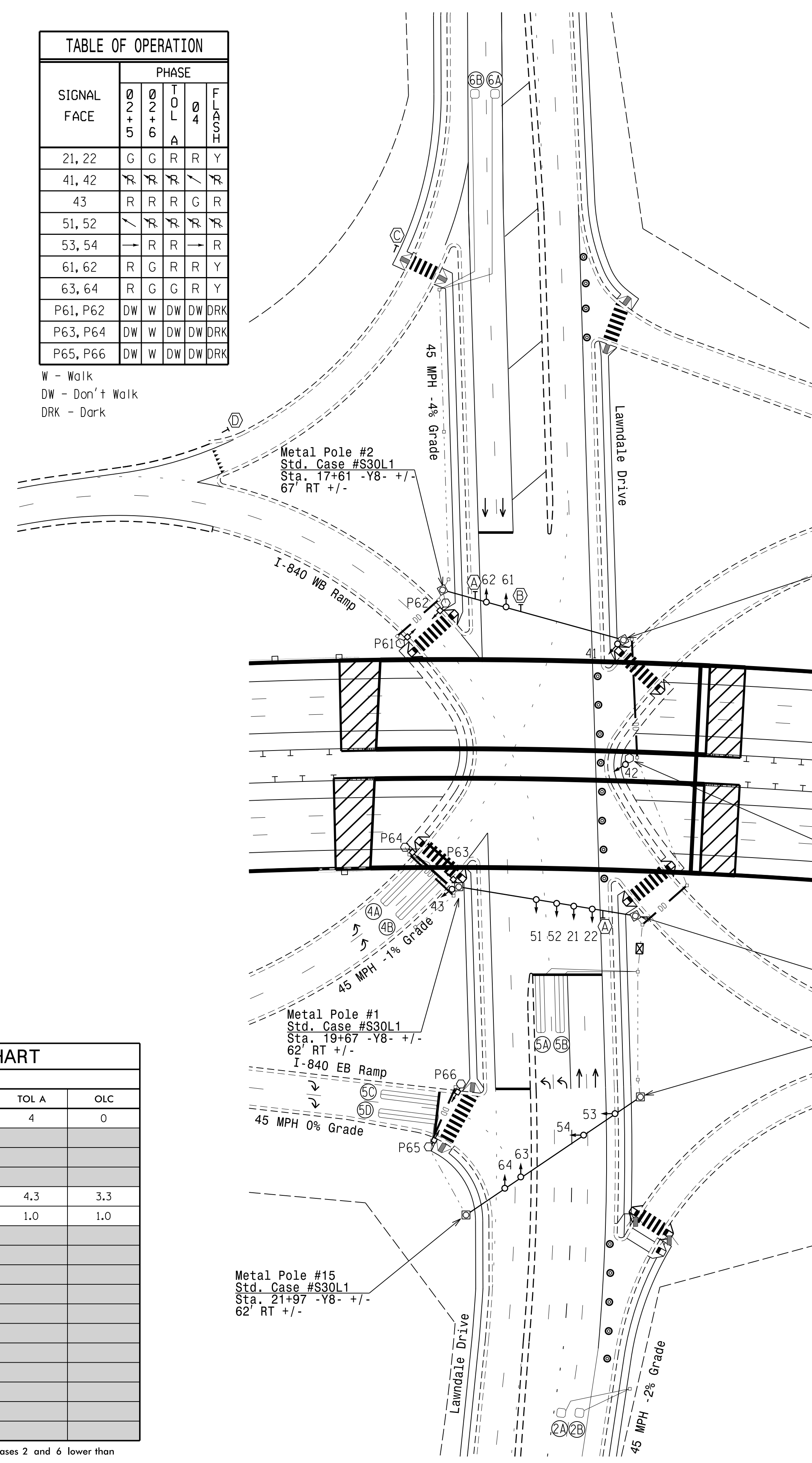
LEGEND



NAZTEC APOGEE 2070 TIMING CHART

FEATURE	PHASE					TOL A	OLC
	2	4	5	6	6		
Min Green *	12	7	7	12		4	0
Gap, Extension *	6.0	2.0	2.0	6.0			
Maximum Green 1 *	90	30	15	90			
Maximum Green 2 *	-	-	-	-			
Yellow Clear	4.7	3.2	3.3	4.9	4.3	3.3	
Red Clear	3.2	3.8	4.9	3.3	1.0	1.0	
Walk *	-	-	-	7			
Pedestrian Clear	-	-	-	7			
Added Initial *	1.5	-	-	1.5			
Maximum Initial *	34	-	-	34			
Time Before Reduction *	15	-	-	15			
Time To Reduce *	30	-	-	30			
Minimum Gap	3.0	-	-	3.0			
Recall Mode	MIN RECALL	-	-	MIN RECALL			
Lock Calls	YES	NO	NO	YES			
Dual Entry	-	-	-	-			
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.



New Installation

Prepared In the Offices of:  
  
 750 N. Greenfield Pkwy, Garner, NC 27529

Lawndale Drive at I-840 Ramps  
 Division 7 Guilford County Greensboro  
 PLAN DATE: March 2016 REVIEWED BY:  
 PREPARED BY: I. O. Umzurike REVIEWED BY:

REVISIONS: \_\_\_\_\_ INIT. DATE \_\_\_\_\_

SCALE: 0 50  
1"=50'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 ROBERT J. ZIEMBA  
 SEAL 026486  
 4/19/2016  
 SIG. INVENTORY NO. 07-0535

08-Apr-2016 11:18  
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