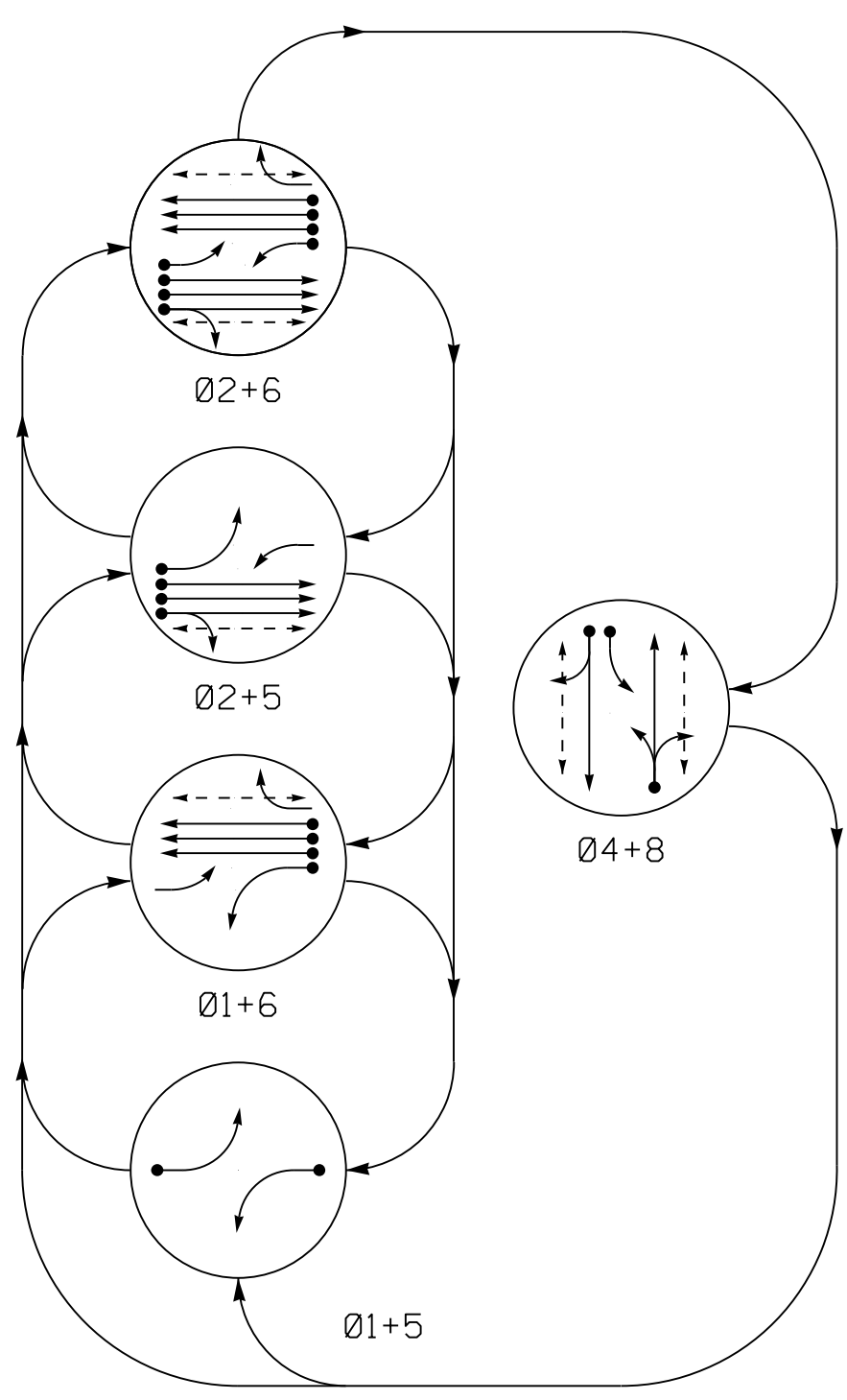


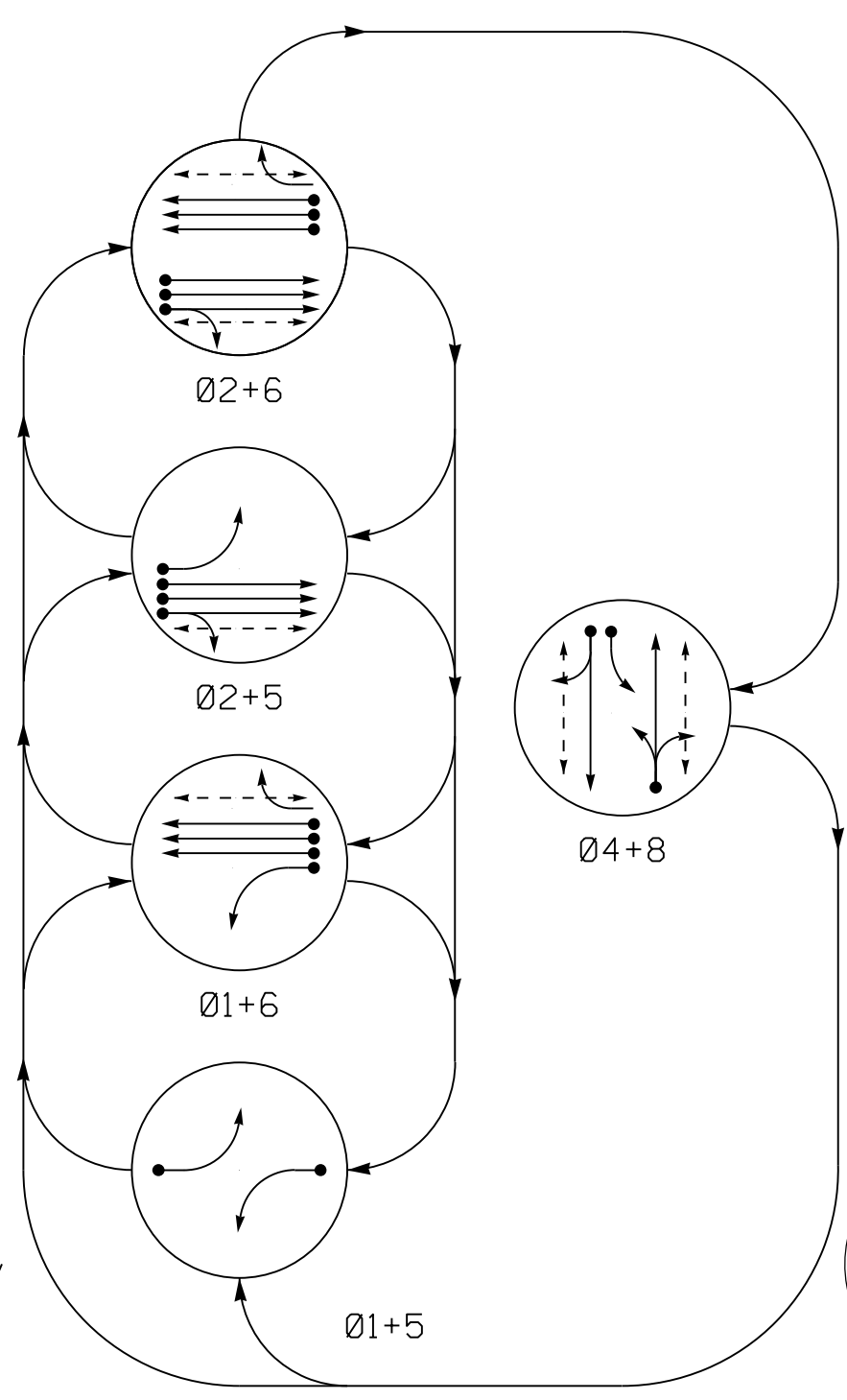
DEFAULT PHASING DIAGRAM



DEFAULT TABLE OF OPERATION

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	04+8	01+5	
11	←	←	←	←	←	←	Y
21,22,23	R	R	G	G	R	Y	
41,42	R	R	R	R	G	R	
51	←	←	←	←	←	Y	
61,62,63	R	G	R	G	R	Y	
81,82	R	R	R	R	G	R	
P21,P22	DW	DW	W	W	DW	DRK	
P41,P42	DW	DW	DW	DW	W	DRK	
P61,P62	DW	W	DW	W	DW	DRK	
P81,P82	DW	DW	DW	DW	W	DRK	

ALTERNATE PHASING DIAGRAM



ALTERNATE TABLE OF OPERATION

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	04+8	01+5	
11	←	←	←	←	←	Y	
21,22,23	R	R	G	G	R	Y	
41,42	R	R	R	R	G	R	
51	←	←	←	←	←	Y	
61,62,63	R	G	R	G	R	Y	
81,82	R	R	R	R	G	R	
P21,P22	DW	DW	W	W	DW	DRK	
P41,P42	DW	DW	DW	DW	W	DRK	
P61,P62	DW	W	DW	W	DW	DRK	
P81,P82	DW	DW	DW	DW	W	DRK	

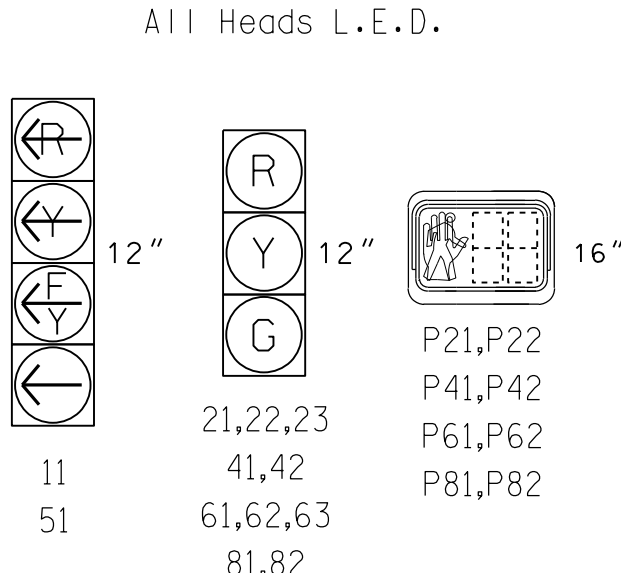
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	X	1	Yes	-	15★	-	S	-	X
2A	6X6	300	6	X	2	Yes	-	-	X	N	-	X
2B	6X6	300	6	X	2	Yes	-	-	X	N	-	X
2C	6X6	300	6	X	2	Yes	-	-	X	N	-	X
4A	6X40	0	2-4-2	X	4	Yes	-	-	-	S	-	X
4B	6X40	0	2-4-2	X	4	Yes	-	-	-	S	-	X
5A	6X40	0	2-4-2	X	5	Yes	-	15★	-	S	-	X
6A	6X6	300	5	X	6	Yes	-	-	X	N	-	X
6B	6X6	300	5	X	6	Yes	-	-	X	N	-	X
6C	6X6	300	5	X	6	Yes	-	-	X	N	-	X
8A	6X40	0	2-4-2	X	8	Yes	-	10	-	S	-	X

5 Phase Fully Actuated Fayetteville Signal System

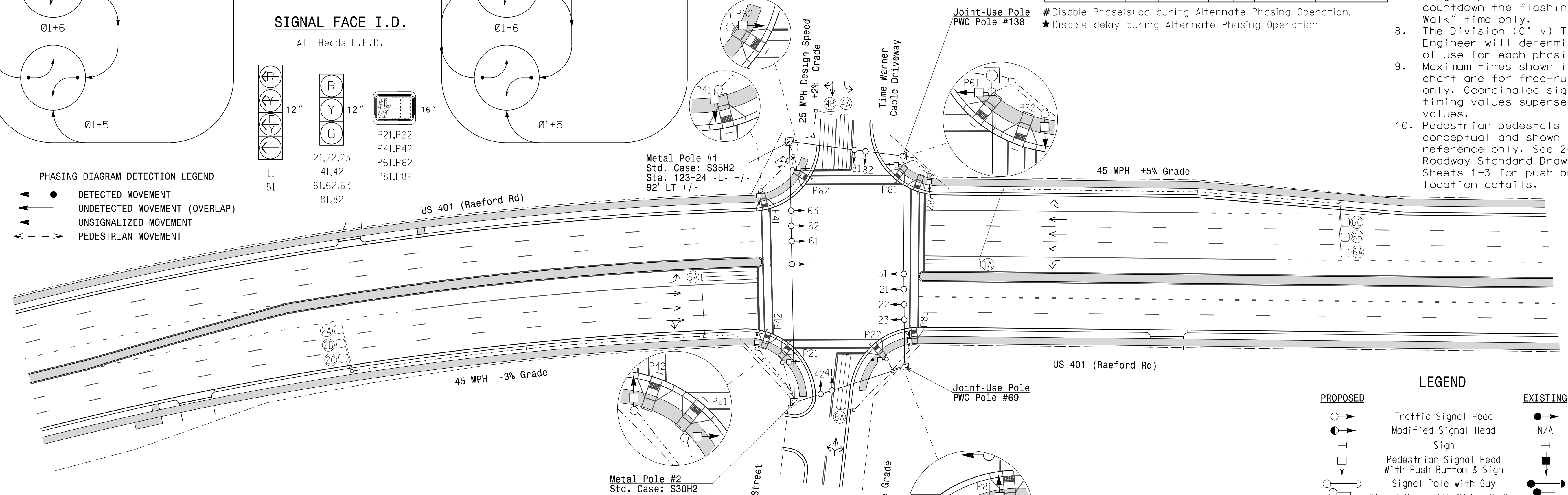
- NOTES**
- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
 - Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
 - Phase 1 and/or phase 5 may be lagged.
 - Set all detector units to presence mode.
 - Omit "WALK" and Flashing "DON'T WALK" with no pedestrian calls.
 - Program pedestrian heads to countdown the flashing "Don't Walk" time only.
 - The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
 - Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
 - Pedestrian pedestals are conceptual and shown for reference only. See 2018 NCDOT Roadway Standard Drawings 1704.04 Sheets 1-3 for push button location details.

SIGNAL FACE I.D.



PHASING DIAGRAM DETECTION LEGEND

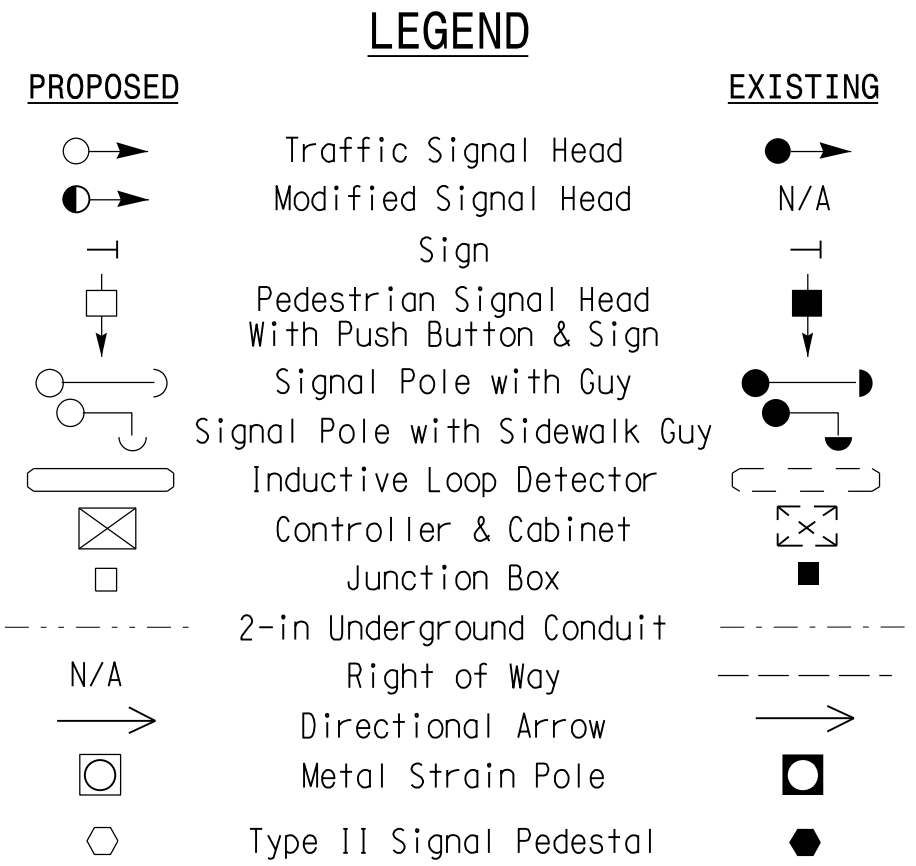
- DETECTED MOVEMENT
- ◄ UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ↔ PEDESTRIAN MOVEMENT



ASC/3 TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green *	7	12	7	7	12	7
Walk *	-	7	7	-	7	7
Ped Clear	-	13	23	-	15	26
Veh. Extension *	2.0	6.0	2.0	2.0	6.0	2.0
Max I *	20	90	30	20	90	30
Yellow	3.0	4.8	3.1	3.0	4.8	3.1
Red Clear	2.9	1.8	3.3	3.3	1.8	3.3
Actuations B4 Add *	-	0	-	-	0	-
Seconds / Actuation *	-	1.2	-	-	1.2	-
Max Initial *	-	34	-	-	34	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	45	-	-	45	-
Minimum Gap	-	3.0	-	-	3.0	-
Locking Detector	-	-	-	-	-	-
Recall Position	-	VEH. RECALL	-	-	VEH. RECALL	-
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	X	X	X	X	X	X

* 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 - Final Design

<p>Stantec Consulting Services Inc. 801 Jones Franklin Road-Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672</p>		<p>US 401 (Raeford Road) at Revere Street/ Time Warner Cable Driveway</p>			
		<p>Prepared for the Offices of:</p>	<p>Division 6 Cumberland County Fayetteville</p>		<p>PLAN DATE: March 2018 REVIEWED BY: E D Harris</p>
<p>750 N. Greenfield Pkwy, Garner, NC 27526</p>		<p>REVISIONS</p>		<p>DATE</p>	
<p>SCALE: 1" = 40'</p>		<p>3/29/2018</p>		<p>DATE</p>	
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		<p>SIG. INVENTORY NO. 06-0592</p>		<p>DATE</p>	

3/29/2018 10:41:00 AM C:\Users\jgms\Documents\Signal Design\4405\sig_dsm_06-0592_Final.dgn User: jgms