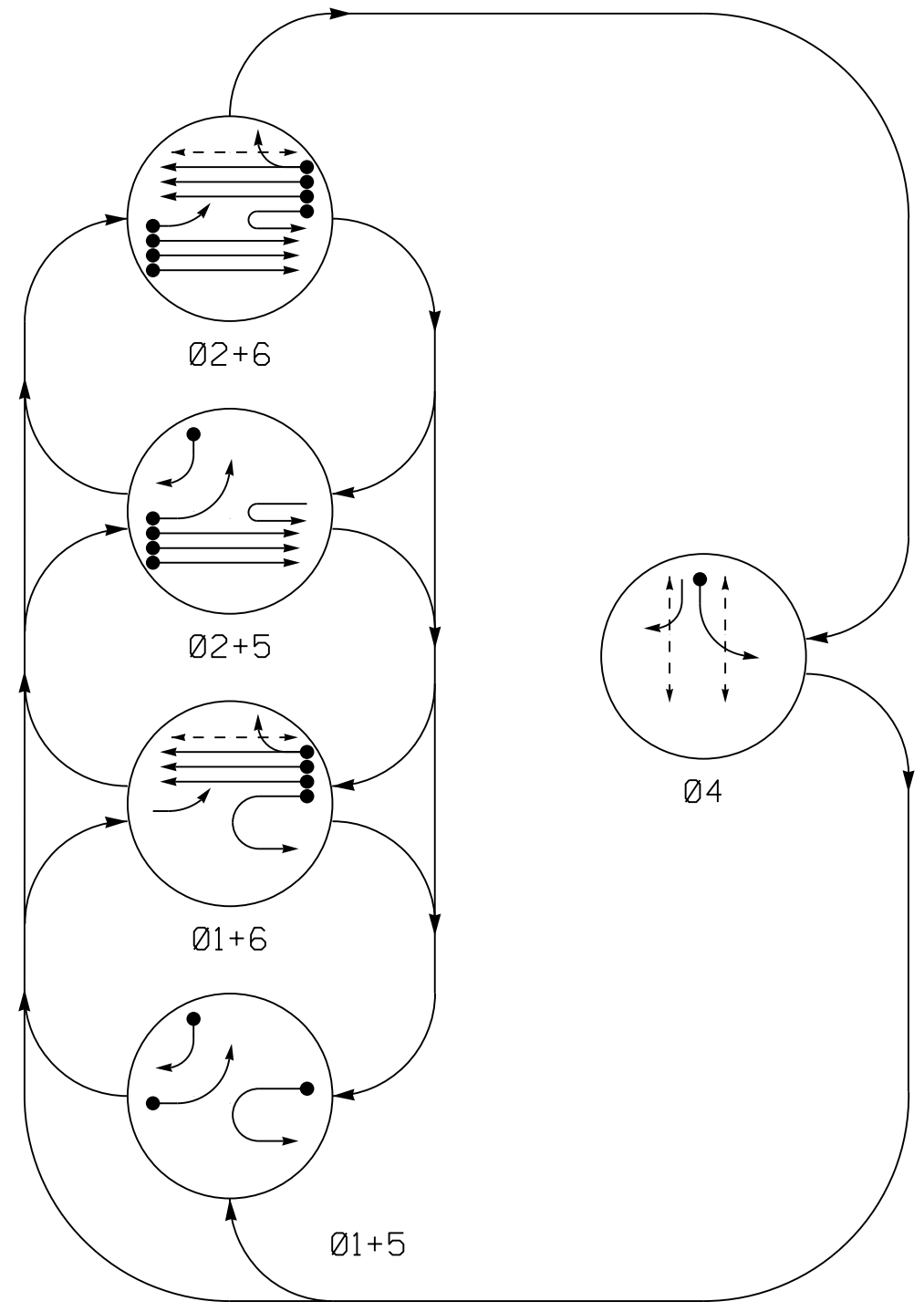


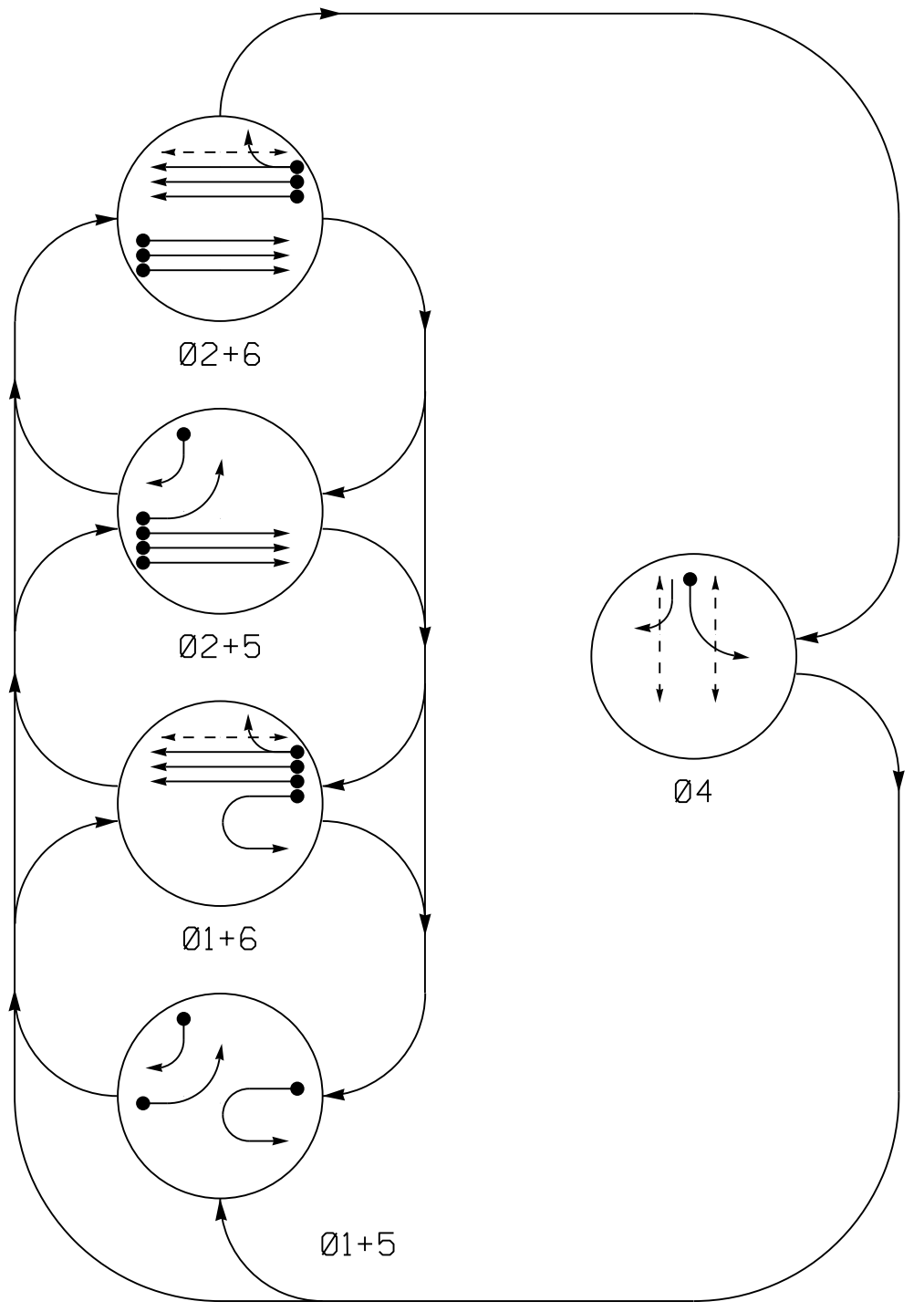
DEFAULT PHASING DIAGRAM



DEFAULT TABLE OF OPERATION

SIGNAL FACE	PHASE					FLASH
	Ø1+5	Ø2+5	Ø2+6	Ø4	Y	
11	R	R	G	R	Y	
21,22,23	R	R	G	R	Y	
41	R	R	R	G	R	
42	R	R	R	R	G	
51	R	R	R	R	Y	
61,62,63	R	G	R	G	R	Y
P41,P42,P43,P44	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK

ALTERNATE PHASING DIAGRAM



ALTERNATE TABLE OF OPERATION

SIGNAL FACE	PHASE					FLASH
	Ø1+5	Ø2+5	Ø2+6	Ø4	Y	
11	R	R	R	R	Y	
21,22,23	R	R	G	R	Y	
41	R	R	R	R	G	
42	R	R	R	R	G	
51	R	R	R	R	Y	
61,62,63	R	G	R	G	R	Y
P41,P42,P43,P44	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK

ASC/3 DETECTOR INSTALLATION CHART

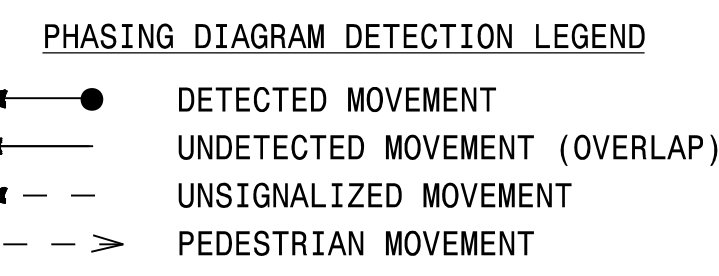
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	X	1	Yes	-	15★	-	S	-	X
2A	6X6	300	5	X	2	Yes	-	-	-	X	N	-
2B	6X6	300	5	X	2	Yes	-	-	-	X	N	-
2C	6X6	300	5	X	2	Yes	-	-	-	X	N	-
4A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

★ Disable delay during Alternate Phasing Operation.
 # Disable Phase(s) calling during Alternate Phasing Operation.

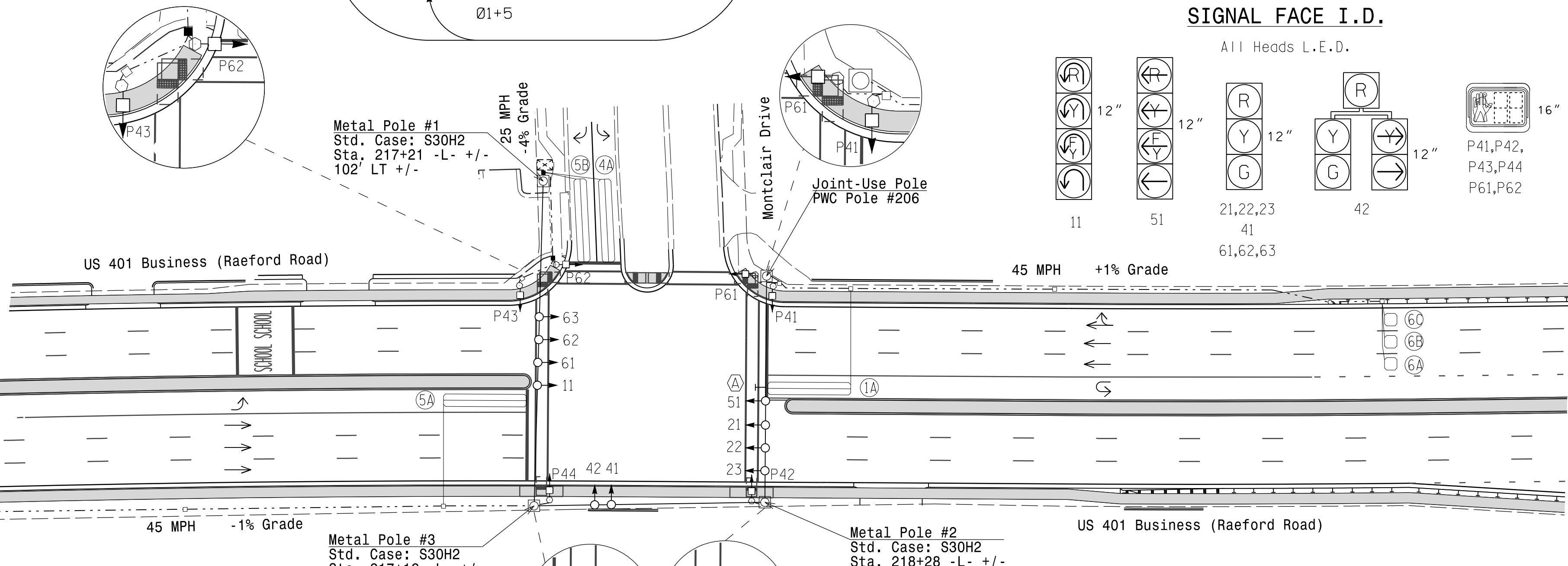
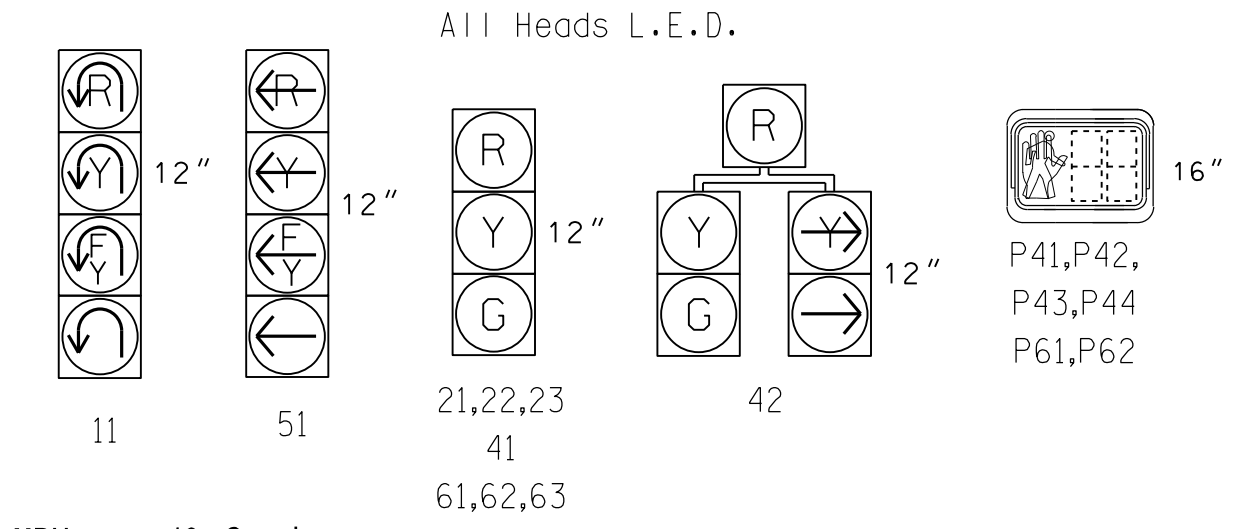
5 Phase Fully Actuated Fayetteville Signal System

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 1705.04 Sheets 1-3 for push button location details.



SIGNAL FACE I.D.

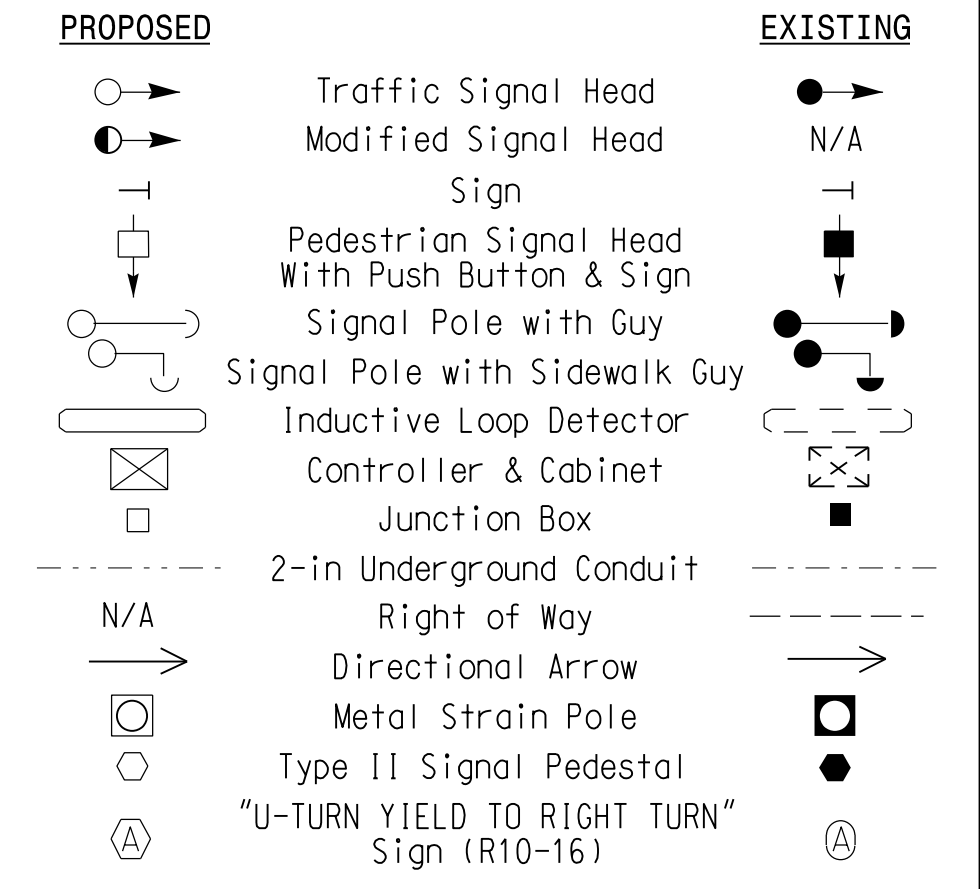


ASC/3 TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	
Min Green *	7	12	7	7	12	
Walk *	-	-	7	-	7	
Ped Clear	-	-	23	-	20	
Veh. Extension *	1.0	6.0	1.0	1.0	6.0	
Max I *	15	90	25	15	90	
Yellow	3.0	4.6	3.0	3.0	4.6	
Red Clear	3.5	2.1	1.0	3.2	2.1	
Red Revert	-	-	-	-	-	
Actuations B4 Add *	-	0	-	-	0	
Seconds / Actuation *	-	1.5	-	-	1.5	
Max Initial *	-	34	-	-	34	
Time Before Reduction *	-	15	-	-	15	
Time To Reduce *	-	30	-	-	30	
Minimum Gap	-	3.0	-	-	3.0	
Locking Detector	-	X	-	-	X	
Recall Position	-	VEH. RECALL	-	-	VEH. RECALL	
Dual Entry	-	-	-	-	-	
Simultaneous Gap	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.

LEGEND



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 Business (Raeford Road) at Montclair Drive</p>	
		<p>Division 6 Cumberland County Fayetteville</p> <p>PLAN DATE: March 2018 REVIEWED BY: E D Harris</p> <p>PREPARED BY: R M Muncy REVIEWED BY: B L Watson</p>	<p>3/29/2018</p>

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