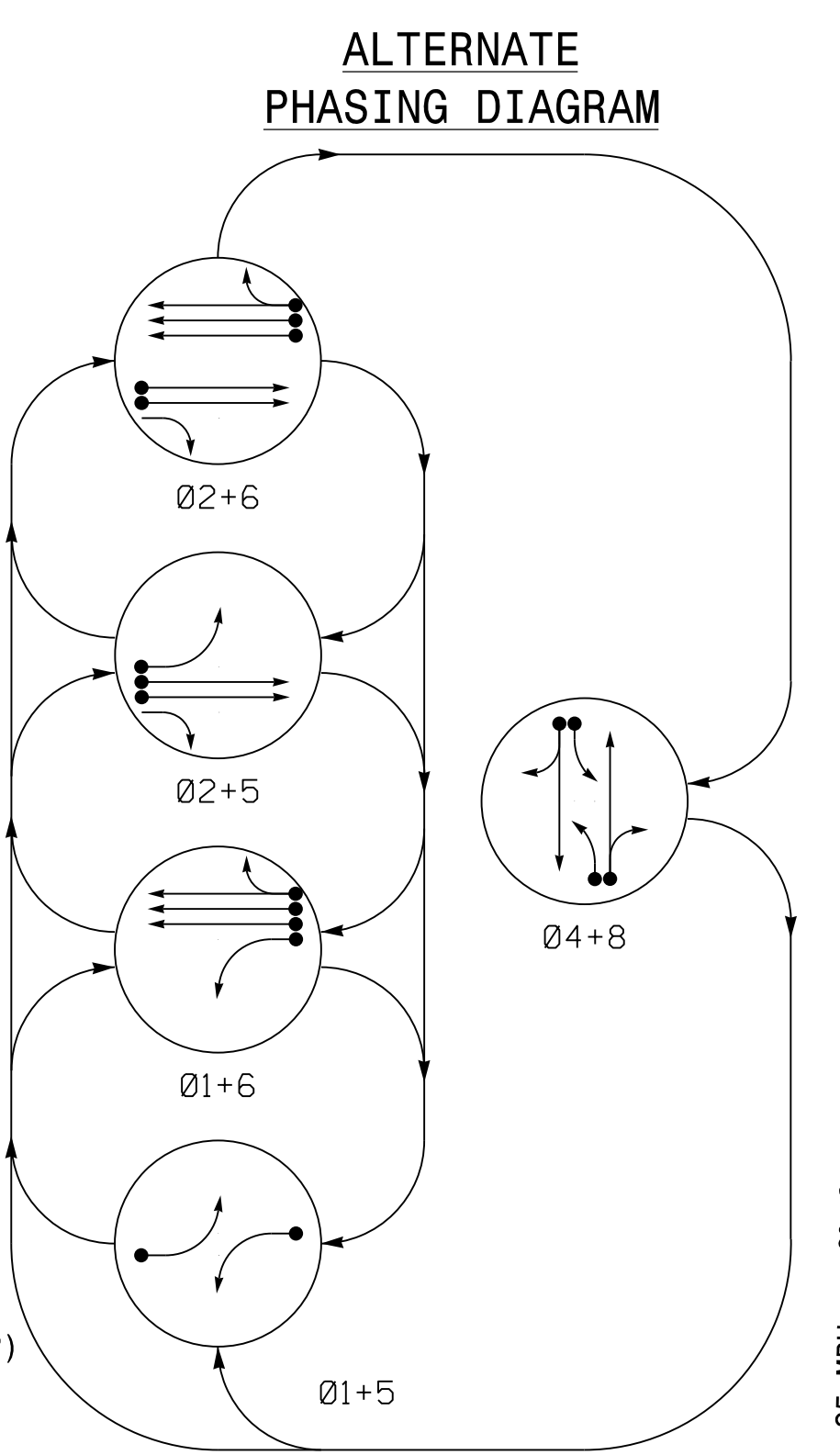


**DEFAULT TABLE OF OPERATION**

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	04+8	01+5	
11	←	←	←	←	←	←	Y
21,22	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	



**ALTERNATE TABLE OF OPERATION**

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	04+8	01+5	
11	←	←	←	←	←	←	Y
21,22	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	

**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	*	-	1	Yes	-	15★	-	S	-	X
2A	6X6	300	*	-	2	Yes	-	-	-	N	-	X
2B	6X6	300	*	-	2	Yes	-	-	-	N	-	X
2C	6X40	0	*	-	2	Yes	2.0	5	-	G	-	X
2D	6X40	0	*	-	2	Yes	2.0	5	-	G	-	X
4A	6X40	0	*	-	4	Yes	-	3	-	S	-	X
4B	6X40	0	*	-	4	Yes	-	10	-	S	-	X
5A	6X40	0	*	-	5	Yes	-	15★	-	S	-	X
6A	6X6	300	*	-	6	Yes	-	-	-	N	-	X
6B	6X6	300	*	-	6	Yes	-	-	-	N	-	X
6C	6X6	300	*	-	6	Yes	-	-	-	N	-	X
6D	6X40	0	*	-	6	Yes	2.0	5	-	G	-	X
6E	6X40	0	*	-	6	Yes	2.0	5	-	G	-	X
6F	6X40	0	*	-	6	Yes	2.0	5	-	G	-	X
8A	6X40	0	*	-	8	Yes	-	3	-	S	-	X
8B	6X40	0	*	-	8	Yes	-	10	-	S	-	X

**5 Phase Fully Actuated Fayetteville Signal System**

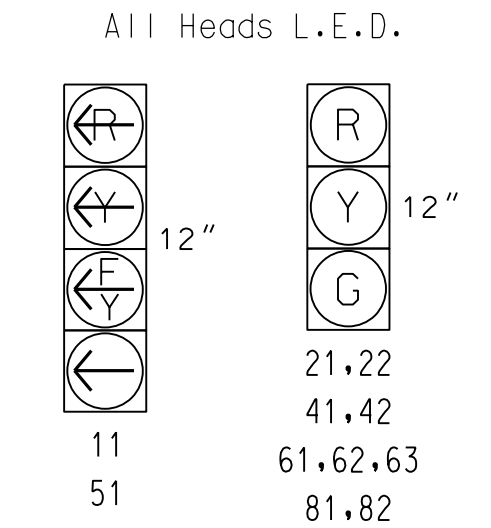
**NOTES**

- 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.
- Locate new cabinet foundation so as not to obstruct sight distance of vehicles turning right on red. Relocate existing cabinet and controller onto new foundation.
- 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.
- Field adjust temporary poles as needed.

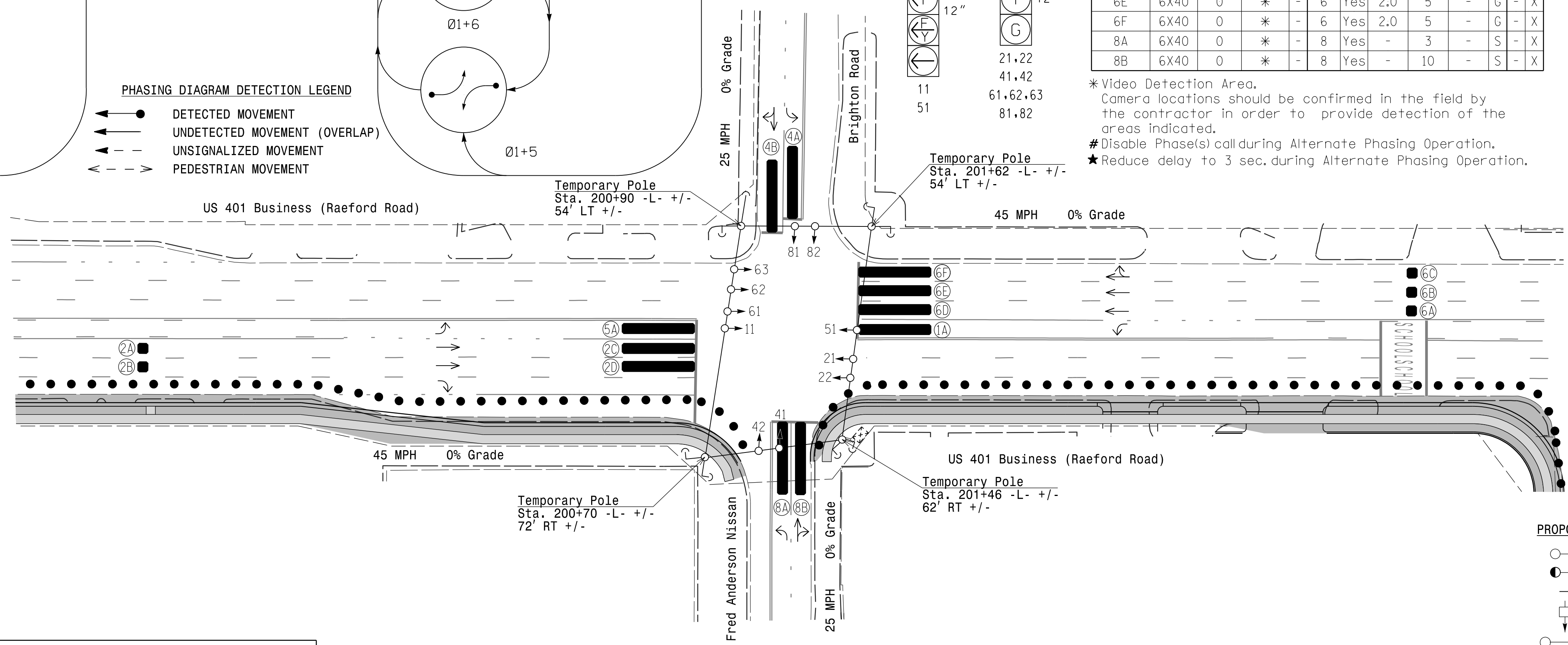
**PHASING DIAGRAM DETECTION LEGEND**

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

**SIGNAL FACE I.D.**



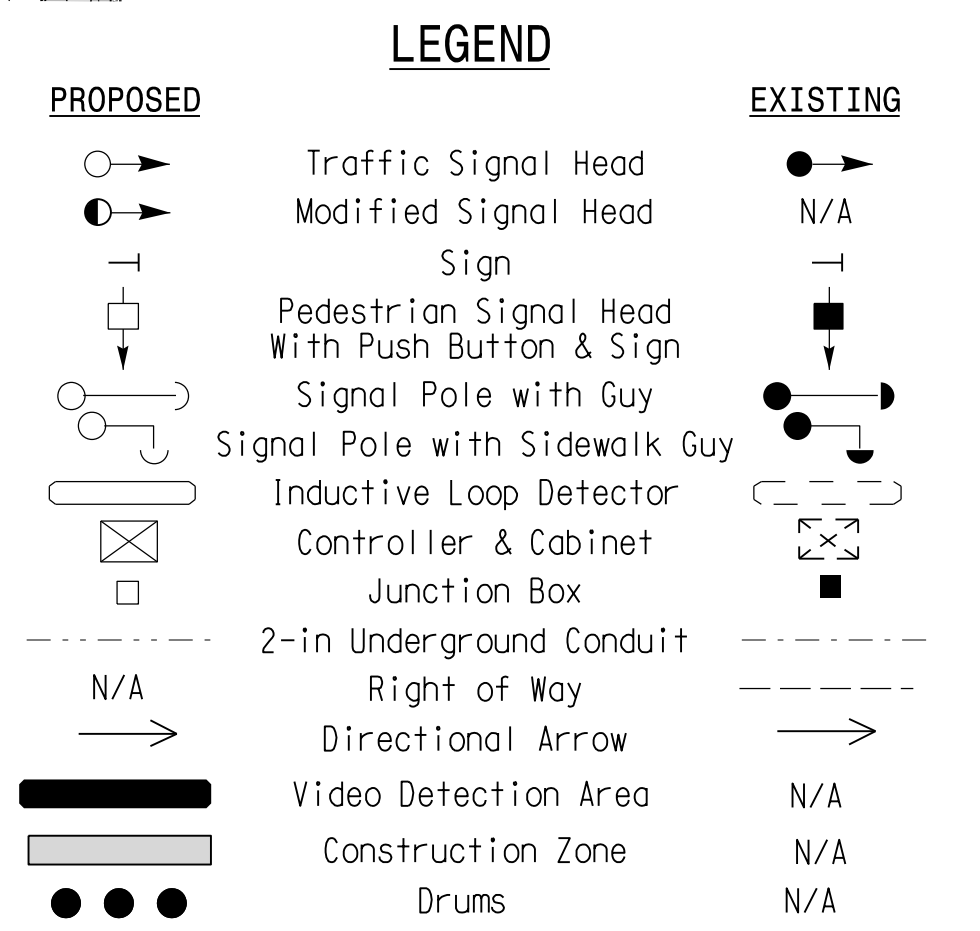
\*Video Detection Area. Camera locations should be confirmed in the field by the contractor in order to provide detection of the areas indicated.  
 # Disable Phase(s) call during Alternate Phasing Operation.  
 ★ Reduce delay to 3 sec. during Alternate Phasing Operation.



**ASC/3 TIMING CHART**

FEATURE	PHASE						
	1	2	4	5	6	8	
Min Green *	7	12	7	7	12	7	
Walk *	-	-	-	-	-	-	
Ped Clear	-	-	-	-	-	-	
Veh. Extension *	2.0	6.0	2.0	2.0	6.0	2.0	
Max 1 *	15	90	25	15	90	25	
Yellow	3.0	4.5	3.2	3.0	4.5	3.2	
Red Clear	2.3	1.1	2.5	2.6	1.1	2.5	
Red Revert	-	-	-	-	-	-	
Actuations B4 Add *	-	-	-	-	-	-	
Seconds / Actuation *	-	-	-	-	-	-	
Max Initial *	-	-	-	-	-	-	
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	-	-	X	-	-	X	
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 Temporary Design 1 - TMP Phase I**

**Stantec**  
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Prepared for the Offices of:  
  
 750 N. Greenfield Pkwy, Garner, NC 27526  
 SCALE: 1" = 40'

**US 401 Business (Raeford Road) at Brighton Road/ Fred Anderson Nissan**  
 Division 6 Cumberland County Fayetteville  
 PLAN DATE: March 2018 REVIEWED BY: E D Harris  
 PREPARED BY: R M Muncey REVIEWED BY: B L Watson

**Professional Engineer Seal**  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 29449  
 Eddy J. Watson  
 3/29/2018  
 SIG. INVENTORY NO. 06-032811

3/29/2018 10:45:00 AM User: rfmuncey

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**