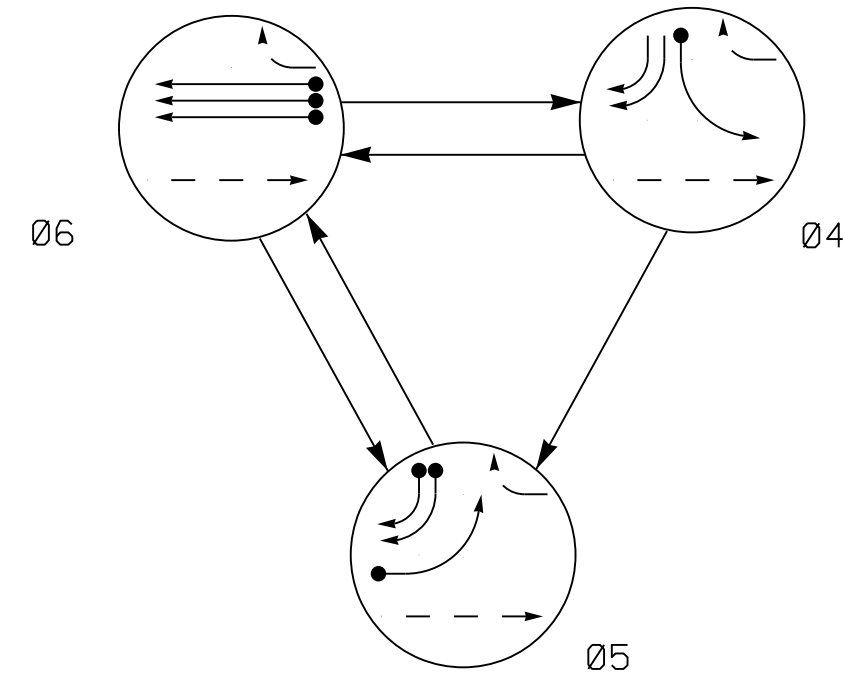


**PHASING DIAGRAM**



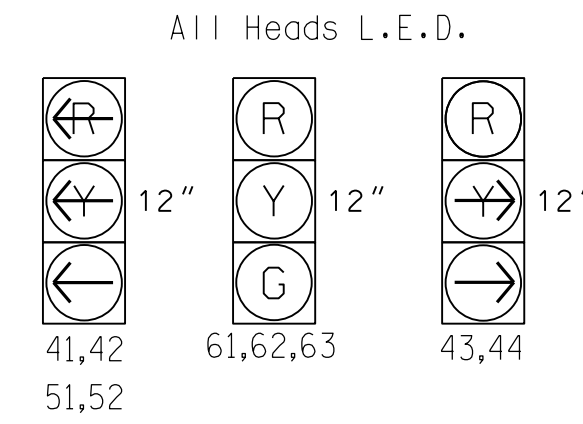
**PHASING DIAGRAM DETECTION LEGEND**

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

**TABLE OF OPERATION**

SIGNAL FACE	PHASE			
	Ø 5	Ø 6	Ø 4	Ø 6, Ø 5, Ø 4
41,42	←	←	←	←
43,44	→	→	→	→
51,52	←	←	←	←
61,62,63	→	→	→	→

**SIGNAL FACE I.D.**



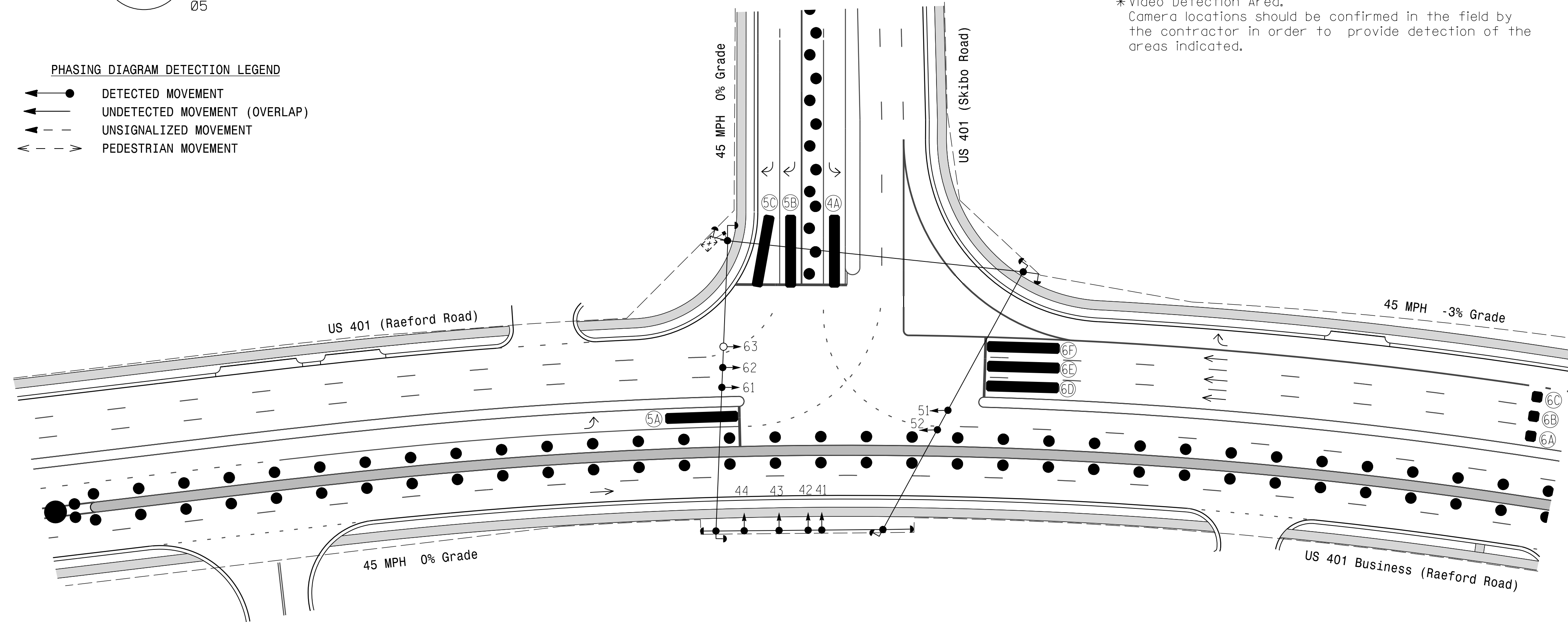
ASC/3 DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP NEW CARD
4A	6X40	0	*	-	4	Yes	-	-	-	S	-
5A	6X40	0	*	-	5	Yes	-	-	-	S	-
5B	6X40	0	*	-	5	Yes	-	15	-	S	-
5C	6X40	0	*	-	5	Yes	-	15	-	S	-
6A	6X6	300	*	-	6	Yes	-	-	-	N	-
6B	6X6	300	*	-	6	Yes	-	-	-	N	-
6C	6X6	300	*	-	6	Yes	-	-	-	N	-
6D	6X40	0	*	-	6	Yes	2.0	5	-	G	-
6E	6X40	0	*	-	6	Yes	2.0	5	-	G	-
6F	6X40	0	*	-	6	Yes	2.0	5	-	G	-

\* Video Detection Area. Camera locations should be confirmed in the field by the contractor in order to provide detection of the areas indicated.

**3 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 5 may be lagged.
- Set all detector units to presence mode.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



**ASC/3 TIMING CHART**

FEATURE	PHASE		
	4	5	6
Min Green *	7	7	12
Walk *	-	-	-
Ped Clear	-	-	-
Veh. Extension *	2.0	2.0	6.0
Max 1 *	30	35	90
Yellow	3.0	3.0	4.8
Red Clear	3.1	2.9	2.0
Actuations B4 Add *	-	-	-
Seconds / Actuation *	-	-	-
Max Initial *	-	-	-
Time Before Reduction *	-	-	15
Time To Reduce *	-	-	45
Minimum Gap	-	-	3.0
Locking Detector	-	-	-
Recall Position	-	-	VEH. RECALL
Dual Entry	-	-	-
Simultaneous Gap	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**

- | PROPOSED   | EXISTING |
|--|----------|
| ○ → Traffic Signal Head                            | ● →      |
| ○ → Modified Signal Head                           | N/A      |
| □ → Sign   | N/A      |
| □ → Pedestrian Signal Head With Push Button & Sign | □ →      |
| □ → Signal Pole with Guy                           | □ →      |
| □ → Signal Pole with Sidewalk Guy                  | □ →      |
| □ → Inductive Loop Detector                        | □ →      |
| □ → Controller & Cabinet                           | □ →      |
| □ → Junction Box                                   | □ →      |
| --- 2-in Underground Conduit                       | ---      |
| N/A Right of Way                                   | ---      |
| → Directional Arrow                                | →        |
| ■ Video Detection Area                             | N/A      |
| ■ Construction Zone                                | N/A      |
| ● Drums  | N/A      |

**Signal Upgrade Temporary Design 4 - TMP Phase III - Step 3**

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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		<p>Division 6 Cumberland County Fayetteville</p> <p>PLAN DATE: March 2018 REVIEWED BY: E D Harris</p> <p>PREPARED BY: R M Muncey REVIEWED BY: B L Watson</p>	<p>3/29/2018</p> <p>DATE</p>