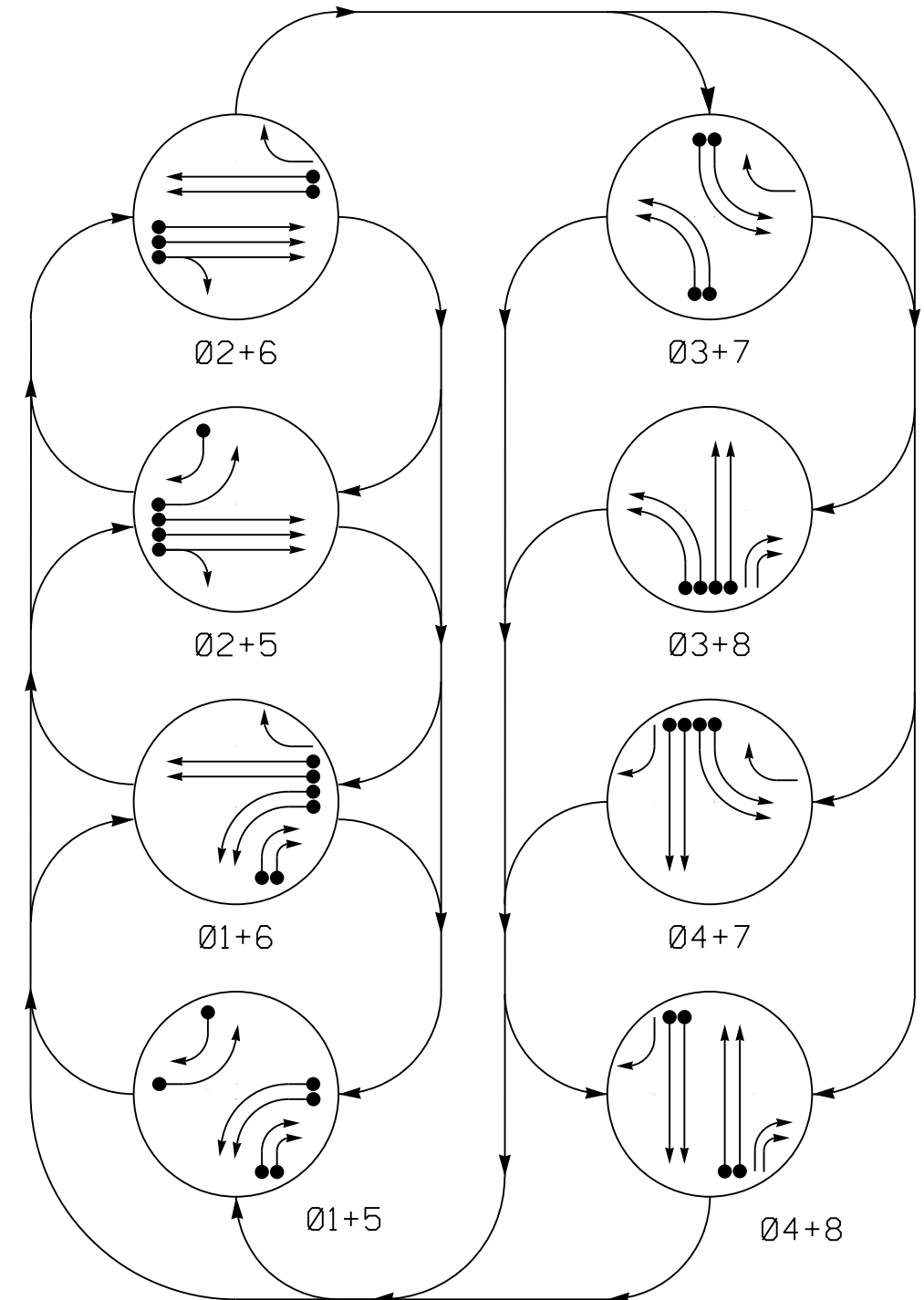


PHASING DIAGRAM



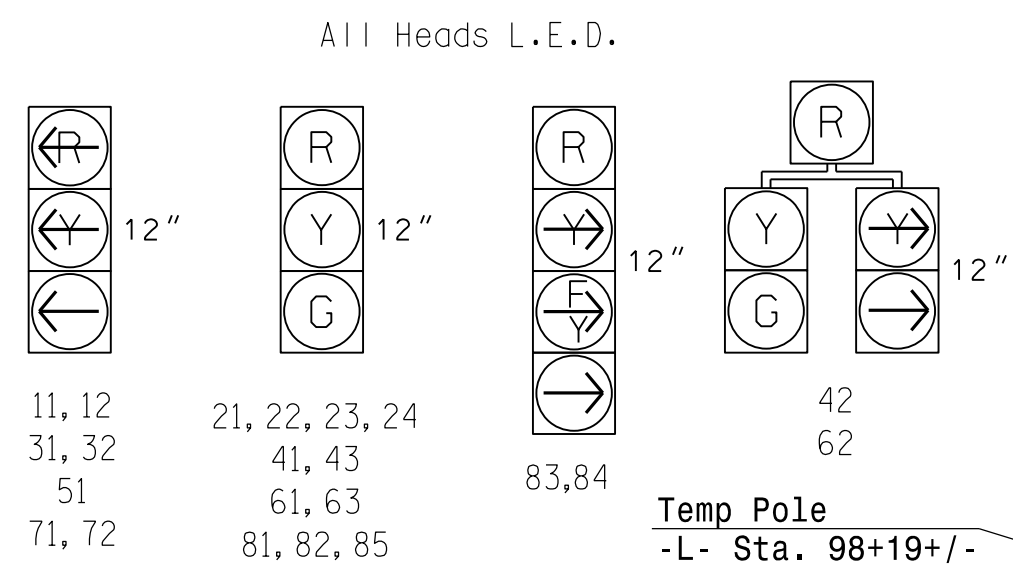
PHASING DIAGRAM DETECTION LEGEND

- ◀ ● DETECTED MOVEMENT
- ◀ ○ UNDETECTED MOVEMENT (OVERLAP)
- ◀ - - UNSIGNALIZED MOVEMENT
- ◀ - - PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11, 12	←	←	←	←	←	←	←	←
21, 22, 23, 24	←	←	←	←	←	←	←	←
31, 32	←	←	←	←	←	←	←	←
41, 43	←	←	←	←	←	←	←	←
42	←	←	←	←	←	←	←	←
51	←	←	←	←	←	←	←	←
61, 63	←	←	←	←	←	←	←	←
62	←	←	←	←	←	←	←	←
71, 72	←	←	←	←	←	←	←	←
81, 82, 85	←	←	←	←	←	←	←	←
83, 84	←	←	←	←	←	←	←	←

SIGNAL FACE I.D.



ASC/3 DETECTOR INSTALLATION CHART

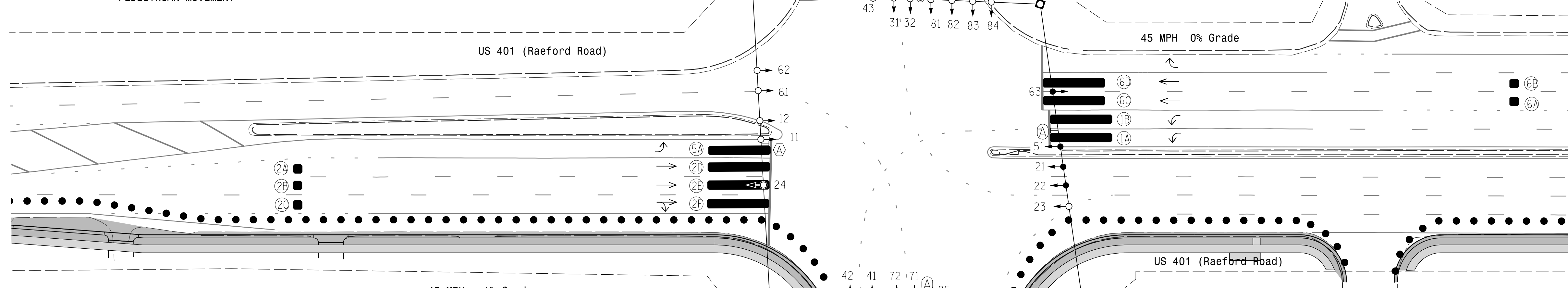
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	*	-	1	Yes	-	-	-	S	-	X
1B	6X40	0	*	-	1	Yes	-	-	-	S	-	X
1C	6X40	0	*	-	1	Yes	-	15	-	S	-	X
1D	6X40	0	*	-	1	Yes	-	15	-	S	-	X
2A	6X6	300	*	-	2	Yes	-	-	-	N	-	X
2B	6X6	300	*	-	2	Yes	-	-	-	N	-	X
2C	6X6	300	*	-	2	Yes	-	-	-	N	-	X
2D	6X40	0	*	-	2	Yes	2.0	5	-	G	-	X
2E	6X40	0	*	-	2	Yes	2.0	5	-	G	-	X
2F	6X40	0	*	-	2	Yes	2.0	5	-	G	-	X
3A	6X40	0	*	-	3	Yes	-	-	-	S	-	X
3B	6X40	0	*	-	3	Yes	-	-	-	S	-	X
4A	6X6	250	*	-	4	No	-	-	-	N	-	X
4B	6X6	250	*	-	4	No	-	-	-	N	-	X
4C	6X40	0	*	-	4	Yes	2.0	5	-	G	-	X
4D	6X40	0	*	-	4	Yes	2.0	5	-	G	-	X
5A	6X40	0	*	-	5	Yes	-	-	-	S	-	X
5B	6X40	0	*	-	5	Yes	-	15	-	S	-	X
6A	6X6	300	*	-	6	Yes	-	-	-	N	-	X
6B	6X6	300	*	-	6	Yes	-	-	-	N	-	X
6C	6X40	0	*	-	6	Yes	2.0	5	-	G	-	X
6D	6X40	0	*	-	6	Yes	2.0	5	-	G	-	X
7A	6X40	0	*	-	7	Yes	-	-	-	S	-	X
7B	6X40	0	*	-	7	Yes	-	-	-	S	-	X

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

8 Phase Fully Actuated Fayetteville Signal System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Phase 3 and/or phase 7 may be lagged.
5. Reposition existing signal heads numbered 21 & 22.
6. Set all detector units to presence mode.
7. Locate new cabinet foundation so as not to obstruct sight distance of vehicles turning right on red.
8. The cabinet should be designed to include an Auxiliary Output File for future use.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
10. Field adjust temporary poles as needed.



ASC/3 TIMING CHART

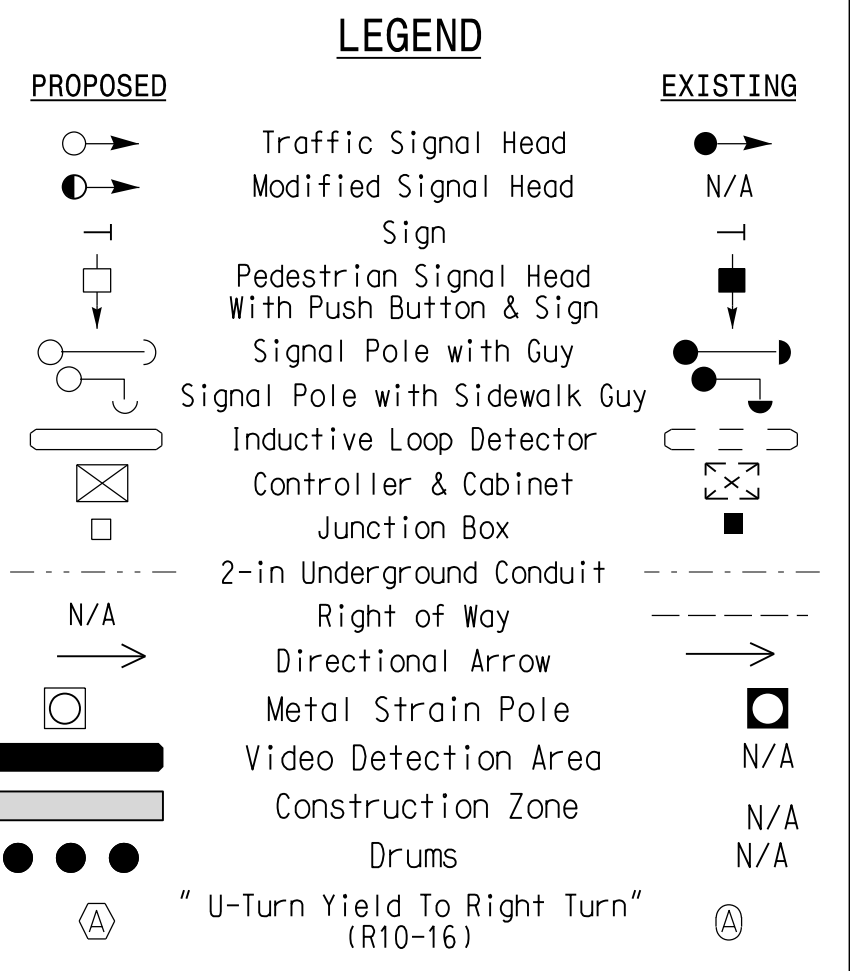
FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	12	7	7	7	12	7	7
Walk *	-	-	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	2.0	6.0	2.0	6.0	2.0	6.0
Max 1 *	20	60	30	40	20	60	30	40
Yellow	3.0	4.4	3.0	4.2	3.0	4.5	3.0	4.4
Red Clear	4.1	2.4	4.2	2.4	3.7	2.2	4.2	2.5
Red Revert	-	-	-	-	-	-	-	-
Actuations B4 Add *	-	-	-	-	-	-	-	-
Seconds / Actuation *	-	-	-	-	-	-	-	-
Max Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	15	-	5	-	15	-	5
Time To Reduce *	-	30	-	20	-	30	-	20
Minimum Gap	-	3.0	-	3.0	-	3.0	-	3.0
Locking Detector	-	-	-	-	-	-	-	-
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALL	-	-
Dual Entry	-	-	-	-	-	-	-	-
Simultaneous Gap	X	X	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.

ASC/3 DETECTOR INSTALLATION CHART

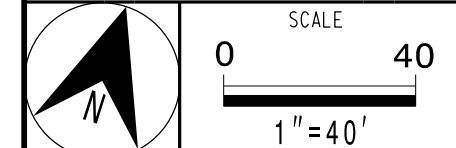
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
8A	6X6	300	*	-	8	No	-	-	-	N	-	X
8B	6X6	300	*	-	8	No	-	-	-	N	-	X
8C	6X40	0	*	-	8	Yes	2.0	5	-	G	-	X
8D	6X40	0	*	-	8	Yes	2.0	5	-	G	-	X

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



Signal Upgrade Temporary Signal Design 1 - TMP Phase I

US 401 (Raeford Road) at NC 162 (Bunce Road) / SR 1411 (Bunce Road)  
 Division 6 Cumberland County Fayetteville  
 PLAN DATE: March 2018 REVIEWED BY: E D Harris  
 PREPARED BY: K Williams REVIEWED BY: B L Watson



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

3/29/2018 10:58:11 AM U:\Projects\4405\SIG-15.0\Drawings\SIG-15.0.dwg User: rmcneely