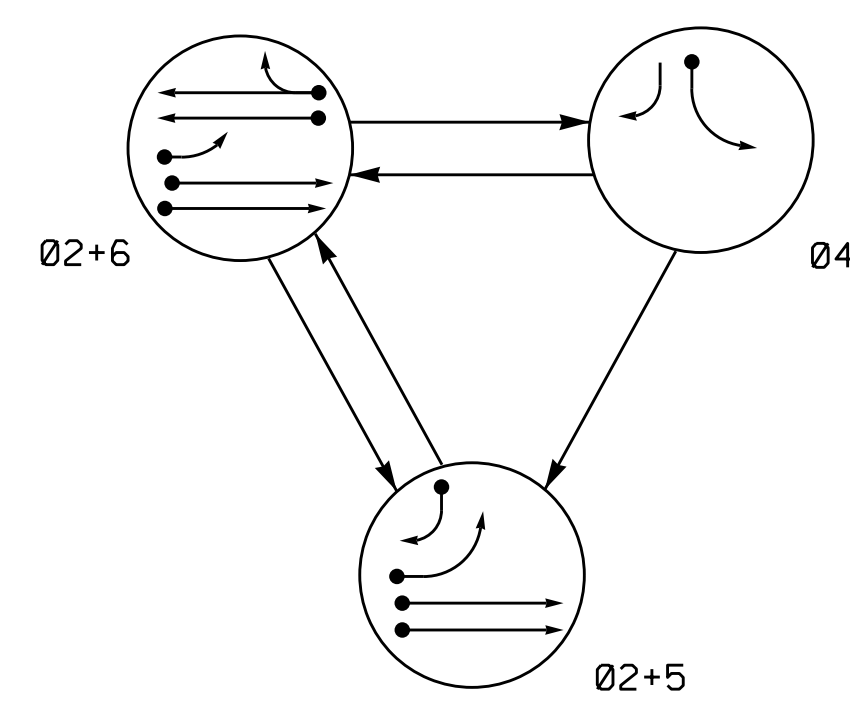


PHASING DIAGRAM



BACKUP PREEMPT PHASE (Low Priority)

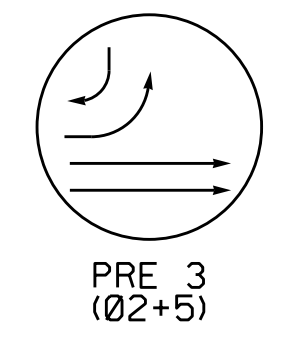
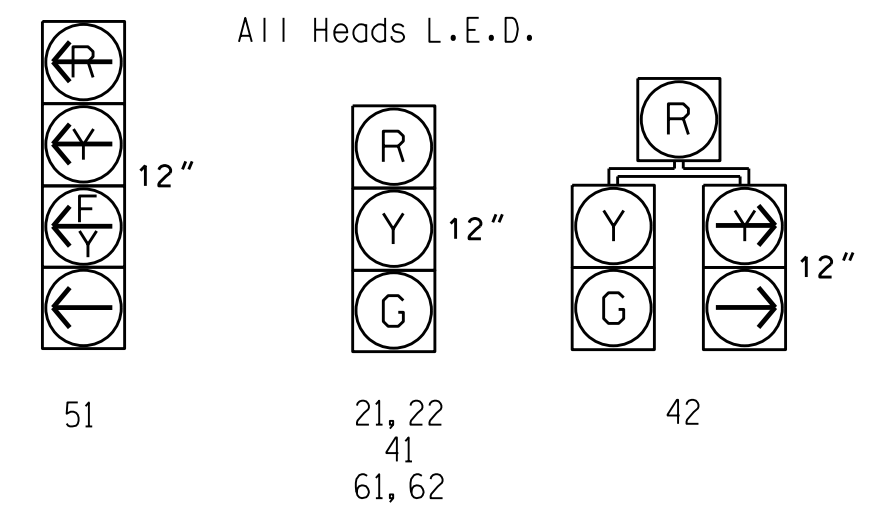


TABLE OF OPERATION

SIGNAL FACE	PHASE				
	02+5	02+6	04	PRE 3	FLUSH
21, 22	G	G	R	G	Y
41	R	R	G	R	R
42	R	R	G	R	R
51	-	F	R	-	Y
61, 62	R	G	R	R	Y

SIGNAL FACE I.D.



ASC/3 DETECTOR INSTALLATION CHART

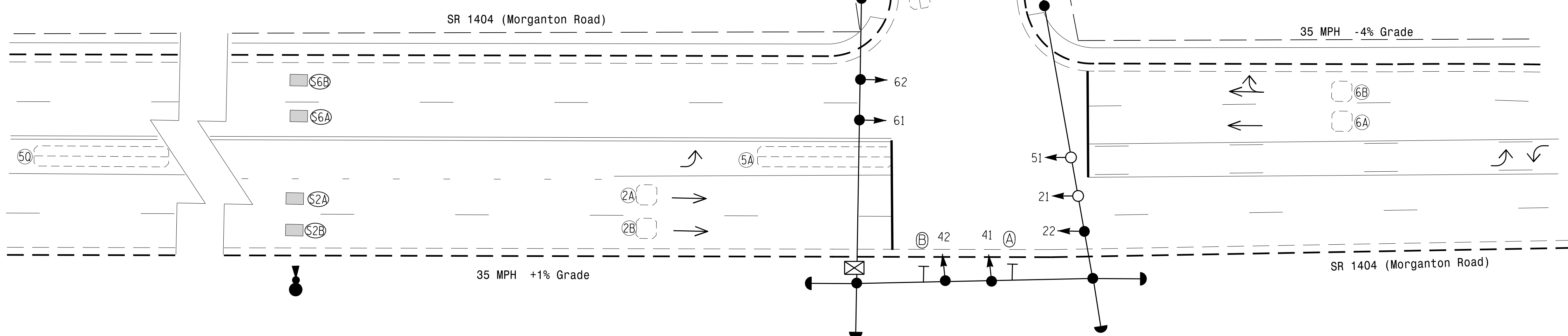
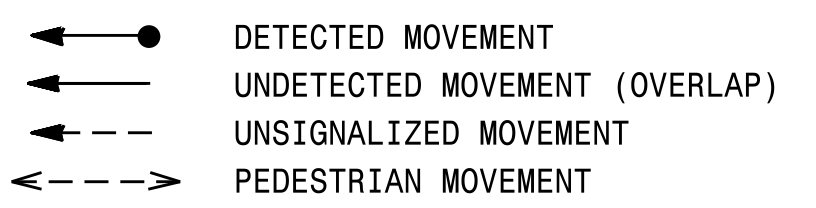
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	LOOP SYSTEM	NEW CARD	
2A, 2B	6X6	70	3	-	2	Yes	-	-	-	N	-	X
4A	6X40	+5	2-4-2	-	4	Yes	-	3	-	S	-	X
5A	6X40	0	2-4-2	-	5	Yes	-	-	-	S	-	X
5B	6X40	+5	2-4-2	-	5	Yes	-	-	-	S	-	X
**50	6X40	425	2-4-2	-	PRE 3	No	-	-	-	N	-	X
6A, 6B	6X6	70	4	-	6	Yes	-	-	-	S	-	X
S2A	*	175	-	-	-	No	-	-	-	N	X	X
S2B	*	175	-	-	-	No	-	-	-	N	X	X
S6A	*	+240	-	-	-	No	-	-	-	N	X	X
S6B	*	+240	-	-	-	No	-	-	-	N	X	X

* Microwave Detection Zone
** See Note 8

3 Phase Fully Actuated W/Backup Preempt Fayetteville Signal System

- NOTES**
- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
 - Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
 - Phase 5 may be lagged.
 - Reposition existing signal head numbered 22.
 - Set all detector units to presence mode.
 - In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
 - Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
 - This loop serve as a queue backup detector. After 5 seconds of constant actuation, the detector unit places a call to the controller to preempt normal operation to clear out the storage lane.
 - Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND



ASC/3 TIMING CHART

FEATURE	PHASE			
	2	4	5	6
Min Green *	10	7	7	10
Walk *	-	-	-	-
Ped Clear	-	-	-	-
Veh. Extension *	3.0	2.0	2.0	3.0
Max I *	60	20	20	60
Yellow	4.1	3.0	3.0	4.1
Red Clear	1.2	2.6	1.6	1.2
Red Revert	-	-	-	-
Actuations B4 Add *	-	-	-	-
Seconds /Actuation *	-	-	-	-
Max Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Locking Detector	X	-	-	X
Recall Position	VEH. RECALL	-	-	VEH. RECALL
Dual Entry	-	-	-	-
Simultaneous Gap	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 BACKUP PREEMPT

FUNCTION	PRE 3
Exit Phase(s)	-
Preempt Override	OFF
Delay Time	0
Ped Clear Trough Yellow	N
Terminate Phases	N
Entrance Walk	255*
Entrance Ped Clear	255*
Entrance Min Green	10
Entrance Yellow Change	25.5*
Entrance Red Clear	25.5*
Minimum Dwell Time	46
Preempt Input Extension Time	0
Preempt Max Time	0
Exit Yellow Change	25.5*
Exit Red Clear	25.5*

* Allows normal phase times to be used.

LEGEND

PROPOSED	EXISTING
	N/A
N/A	
N/A	
N/A	

Signal Upgrade

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SR 1404 (Morganton Road) at Skye Drive

Division 6 Cumberland County Fayetteville

PLAN DATE: March 2016 REVIEWED BY: JPG

PREPARED BY: Devin Smith REVIEWED BY:

REVISIONS INIT. DATE

SCALE 1"=20'

DocuSigned by: Jason P. Galloway 5/13/2016

SIG. INVENTORY NO. 06-0350

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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