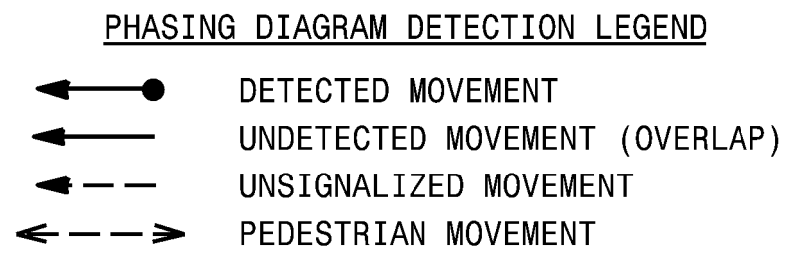
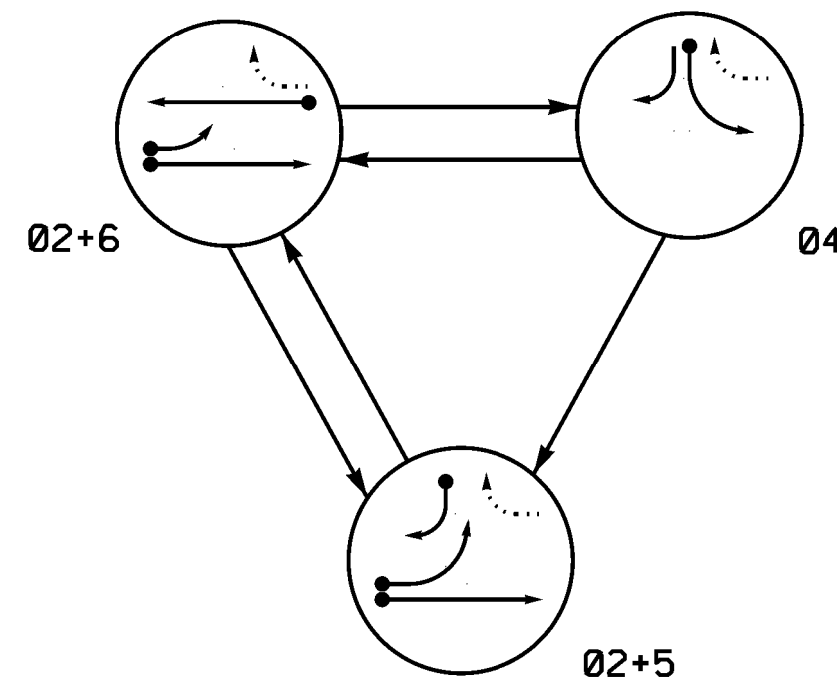
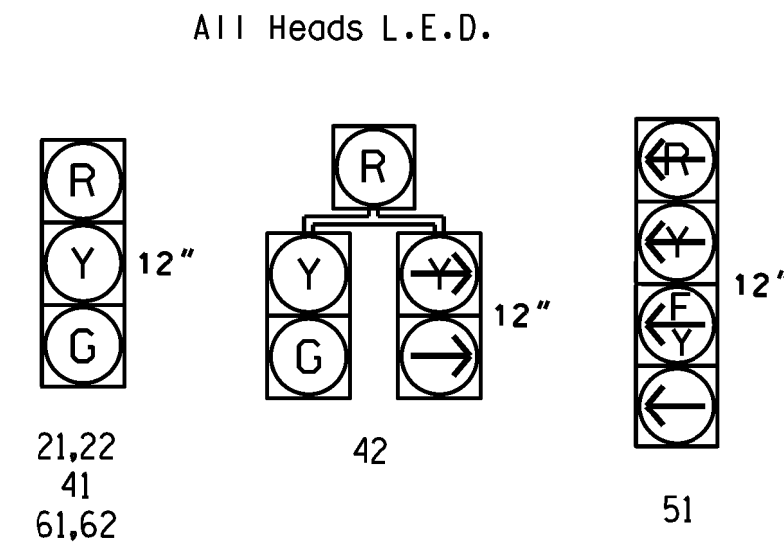


PHASING DIAGRAM



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

SIGNAL FACE I.D.

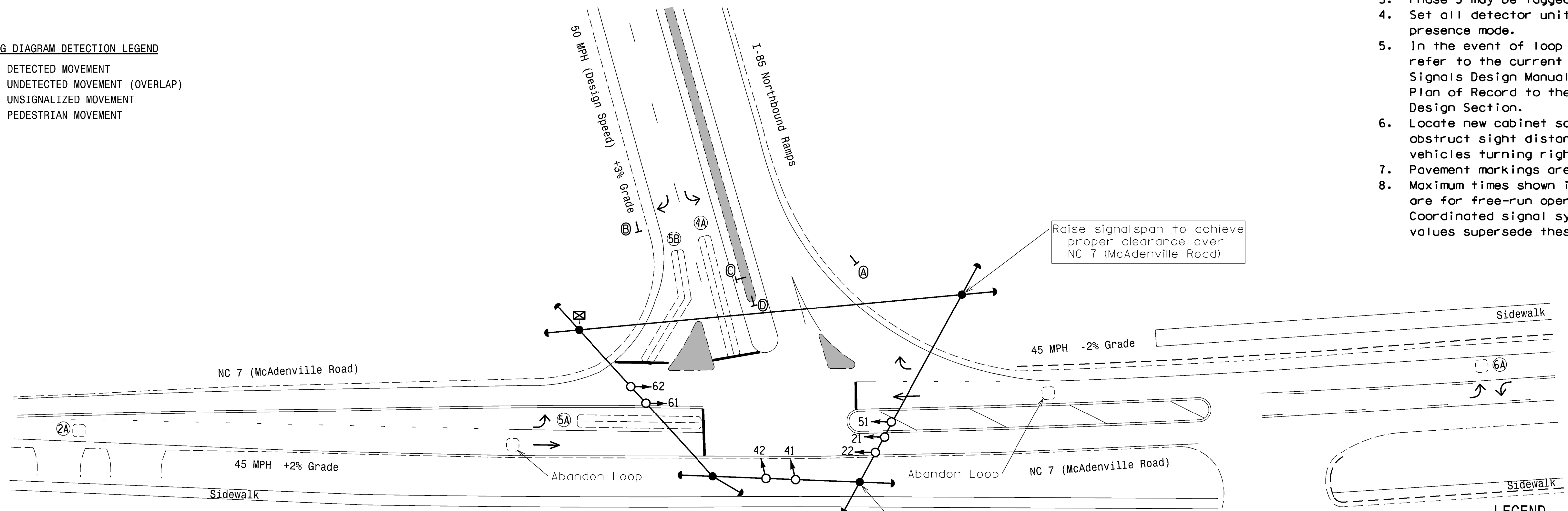


ASC/3 DETECTOR INSTALLATION CHART												
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	LOOP NEW CARD	
2A	6X6	300	4	-	2	Yes	-	-	X	N	-	X
4A	6X60	0	2-4-2	-	4	Yes	-	-	-	S	-	X
5A	6X60	0	2-4-2	-	5	Yes	-	15	-	S	-	X
5B	6X60	0	2-4-2	-	5	Yes	-	15	-	S	-	X
6A	6X6	300	4	-	6	Yes	-	-	X	N	-	X

3 Phase Fully Actuated Belmont Signal System

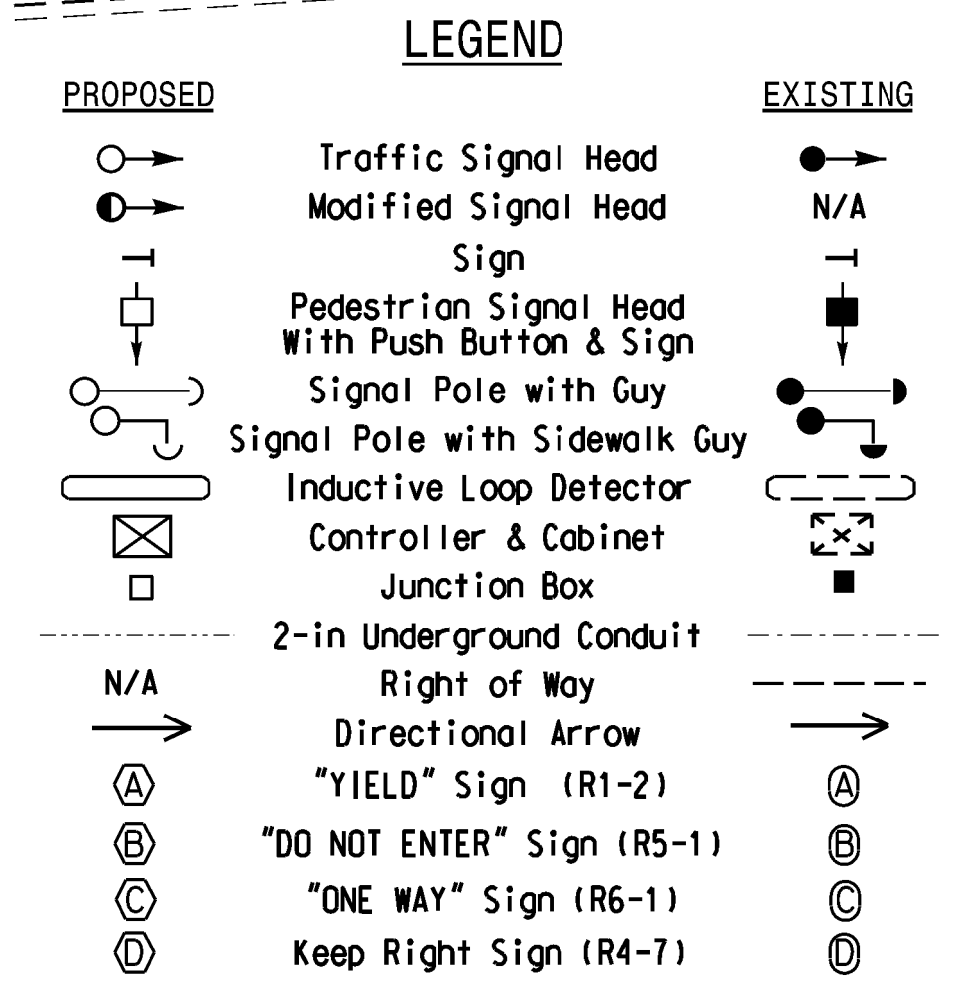
NOTES

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 5 may be lagged.
4. Set all detector units to presence mode.
5. 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.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Pavement markings are existing.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



FEATURE	PHASE			
	2	4	5	6
Min Green *	12	7	7	12
Walk *	0	0	0	0
Ped Clear	0	0	0	0
Veh. Extension *	6.0	1.0	1.0	6.0
Max 1 *	60	30	20	60
Yellow	4.7	3.0	3.0	4.7
Red Clear	1.9	2.6	1.8	1.9
Actuations B4 Add *	0	-	-	0
Seconds / Actuation *	2.5	-	-	2.5
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

* 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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

<p>Prepared in the Office of:</p> <p>NC FIRM LICENSE No: P-0339 504 Meadowlands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)</p>	<p>Prepared For:</p> <p>750 N. Greenfield Pkwy, Garner, NC 27529</p>	<p>NC 7 (McAdenville Road) at I-85 Northbound Ramps</p>		<p>SEAL</p>							
		<p>Division 12 Gaston County Belmont</p> <p>PLAN DATE: December 2018 REVIEWED BY: E. Sirgany</p> <p>PREPARED BY: J. Smith REVIEWED BY:</p>									
<p>SCALE</p> <p>0 30 1"=30'</p>		<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	INIT.	DATE				<p>2/7/2019</p> <p>DATE</p>	<p>SIG. INVENTORY NO. 12-1537</p>
NO.	INIT.	DATE									