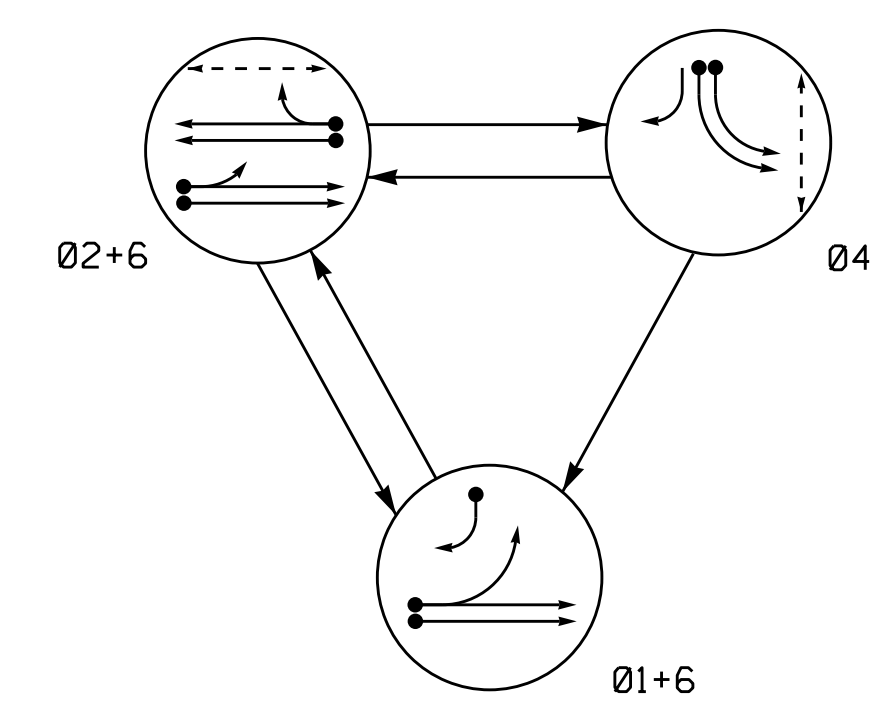


3 Phase Fully Actuated Isolated

PHASING DIAGRAM

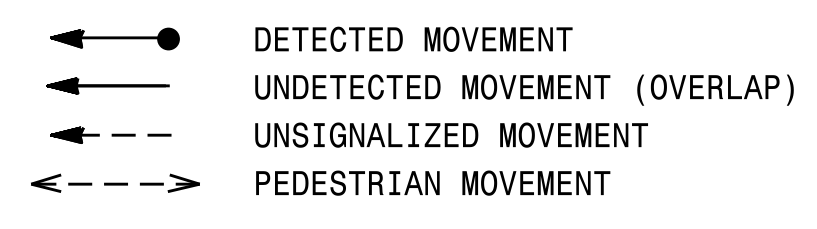


SIGNAL FACE	PHASE				TOTAL
	01+6	02+6	04+8	F	
21,22	R	G	R	Y	
41	R	R	G	R	
42	R	R	G	R	
61	G	G	R	Y	
62	G	G	R	Y	
P21,P22	DW	W	DW	DRK	
P41,P42	DW	DW	W	DRK	

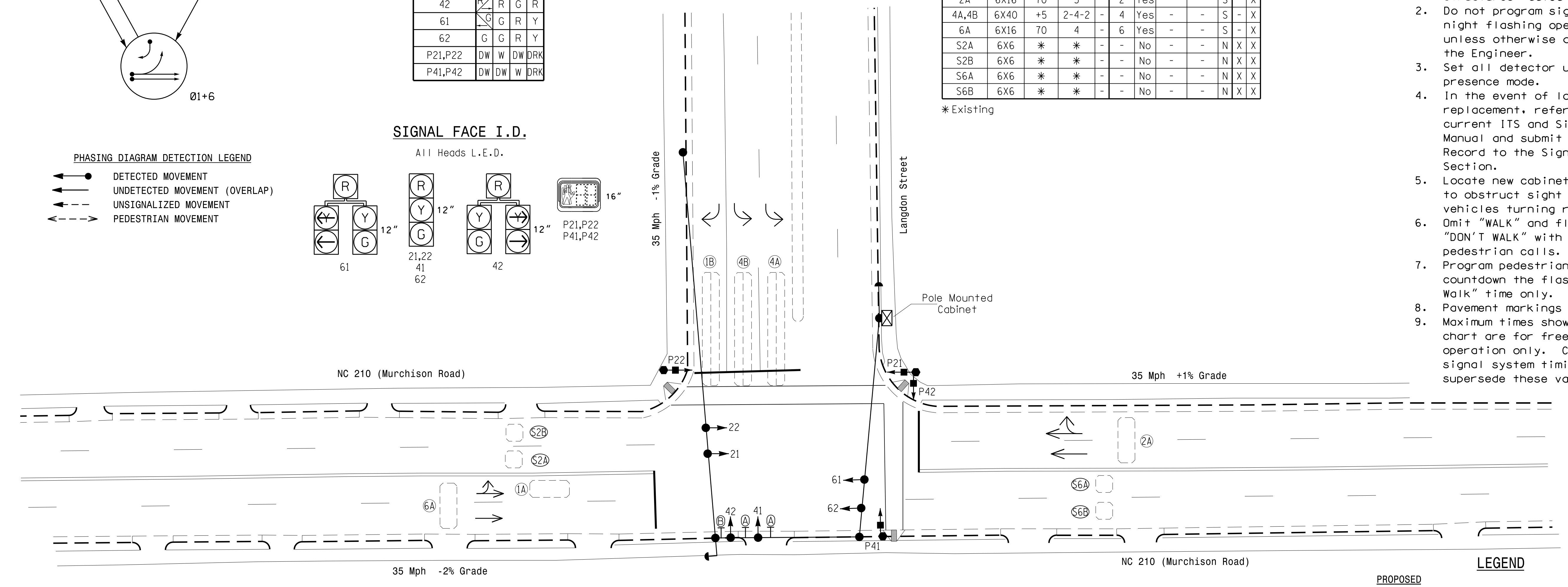
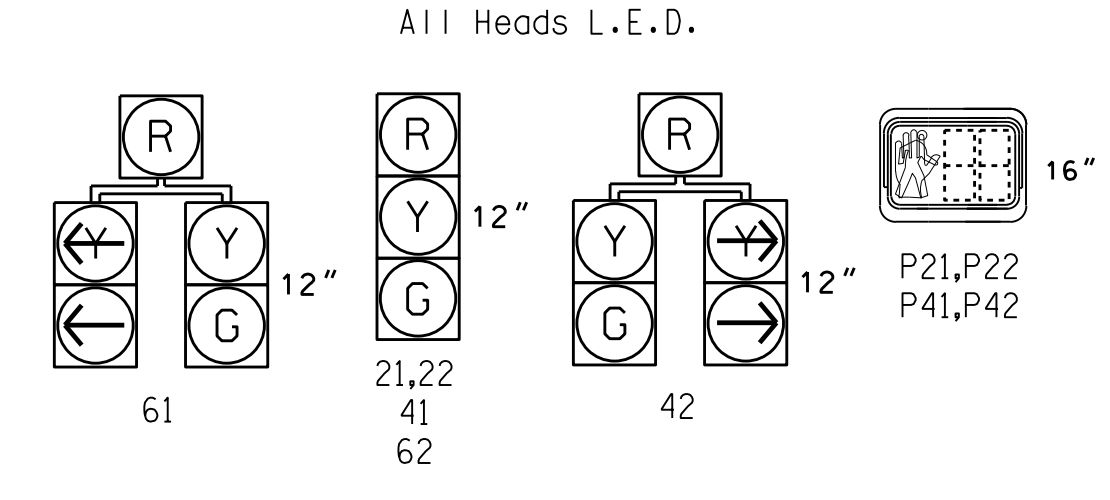
ASC/3 DETECTOR INSTALLATION CHART										
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING					
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP
1A	6X14	30	4	-	1	Yes	-	-	S	- X
1B	6X40	+5	2-4-2	-	1	Yes	-	-	S	- X
2A	6X16	70	3	-	2	Yes	-	-	S	- X
4A,4B	6X40	+5	2-4-2	-	4	Yes	-	-	S	- X
6A	6X16	70	4	-	6	Yes	-	-	S	- X
S2A	6X6	*	*	-	-	No	-	-	N	X X
S2B	6X6	*	*	-	-	No	-	-	N	X X
S6A	6X6	*	*	-	-	No	-	-	N	X X
S6B	6X6	*	*	-	-	No	-	-	N	X X

- 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.
 - 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.
 - Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
 - Program pedestrian heads to countdown the flashing "Don't Walk" time only.
 - Pavement markings are existing.
 - Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND



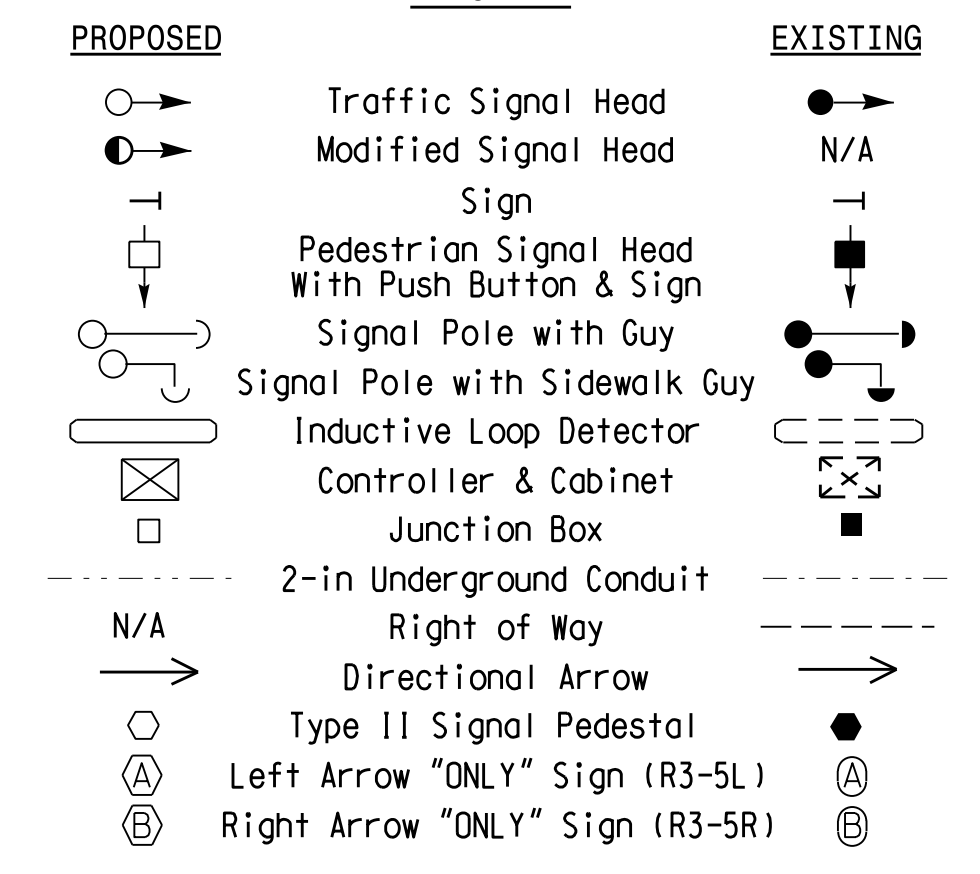
SIGNAL FACE I.D.



FEATURE	PHASE			
	1	2	4	6
Min Green *	7	10	7	10
Walk *	0	7	7	0
Ped Clear	0	20	12	0
Veh. Extension *	2.0	3.0	2.0	2.0
Max 1 *	15	30	25	30
Yellow	3.0	4.0	3.0	4.0
Red Clear	2.3	1.7	2.6	1.7
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.

LEGEND



Signal Upgrade

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 1" = 20'

NC 210 (Murchison Road) at Langdon Street

Division 6 Cumberland County Fayetteville

PLAN DATE: April 2016 REVIEWED BY: JPG

PREPARED BY: Jeff Spence REVIEWED BY:

REVISIONS: INIT. DATE

DocuSigned by: Jason P. Gallaway 6/14/2016

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029904

SIG. INVENTORY NO. 06-0042

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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 J. Spence