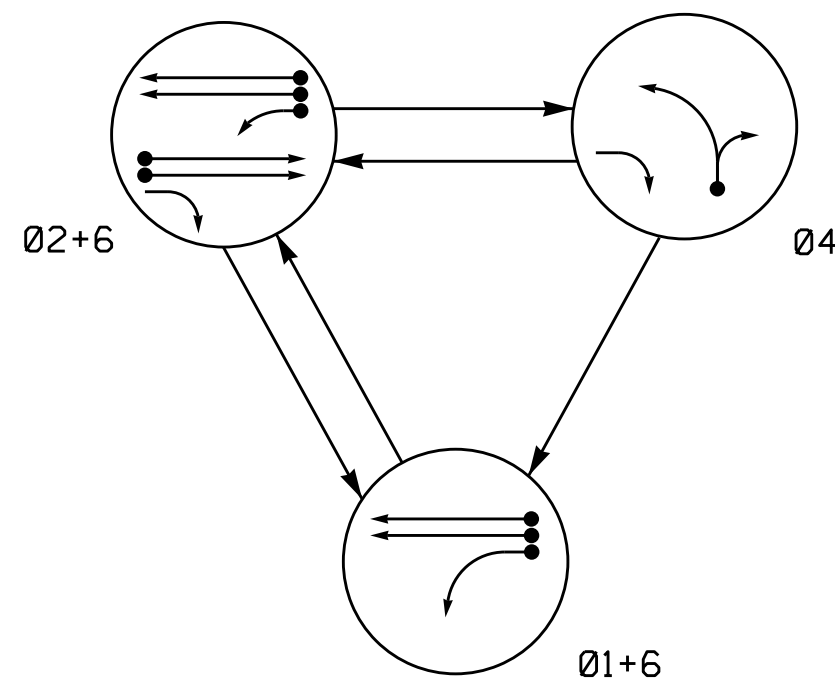


PHASING DIAGRAM



SIGNAL FACE	PHASE			
	01+6	02+6	04	F
11	←	←	←	←
21,22	R	G	R	Y
23	R	G	R	Y
41,42	R	R	G	R
61,62	G	G	R	Y

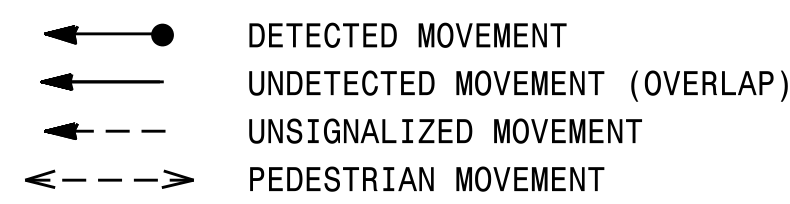
ASC/3 DETECTOR INSTALLATION CHART										
DETECTOR					PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP NEW CARD
1A	6X60	+5	2-4-2	-	1	Yes	-	15	S	- X
					6	Yes	-	3	G	- X
2A,2B	6X6	330	5	-	2	Yes	-	-	N	- X
4A	6X60	+5	2-4-2	-	4	Yes	-	-	S	- X
4B	6X18	+5	2	-	4	Yes	-	15	S	- X
6A,6B	6X6	330	5	-	6	Yes	-	-	N	- X

3 Phase Fully Actuated Fayetteville Signal System

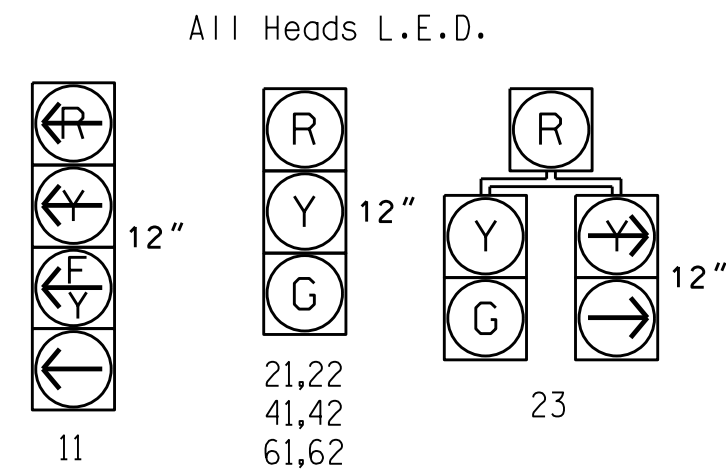
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 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. Pavement markings are existing.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND

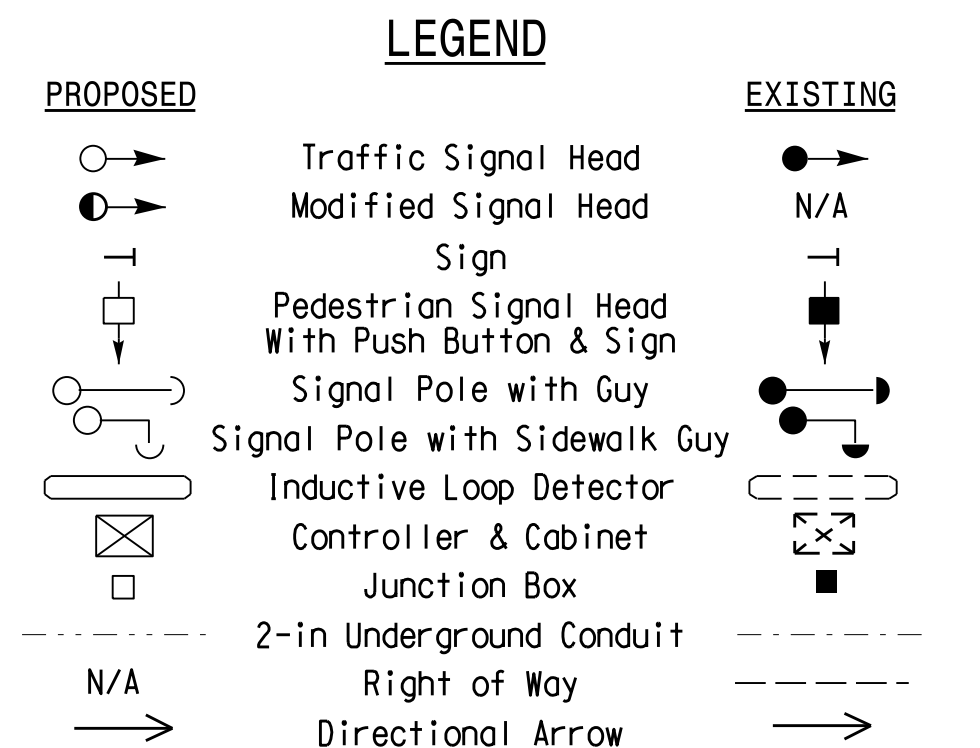
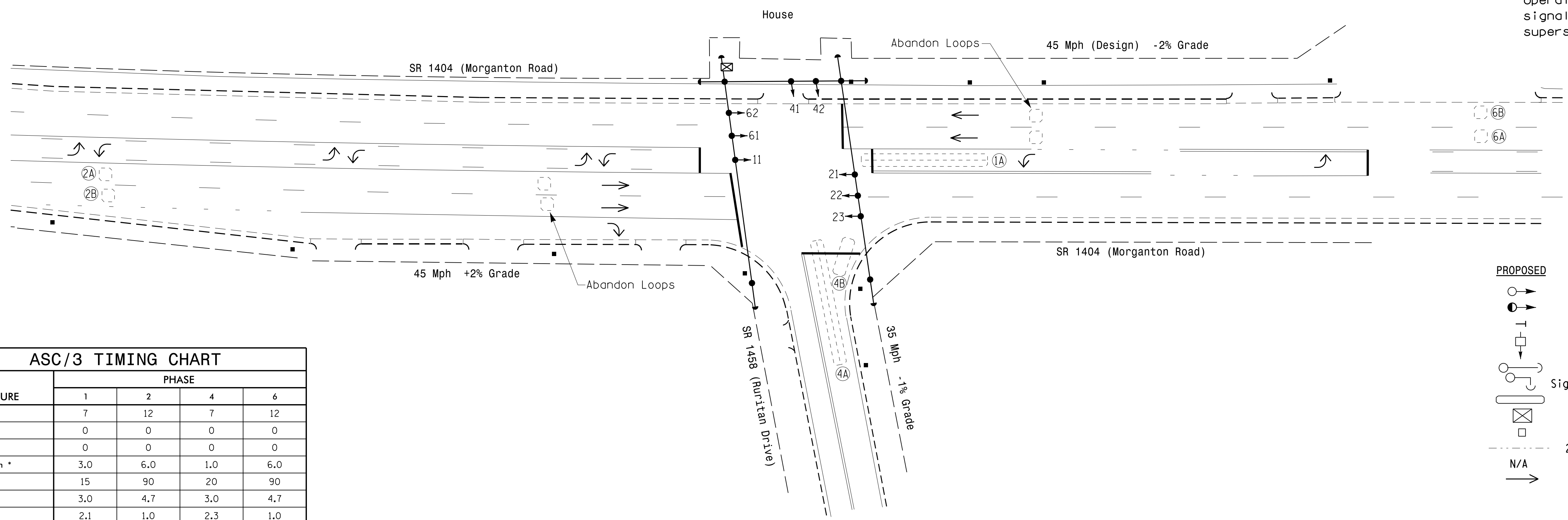


SIGNAL FACE I.D.



FEATURE	PHASE			
	1	2	4	6
Min Green *	7	12	7	12
Walk *	0	0	0	0
Ped Clear	0	0	0	0
Veh. Extension *	3.0	6.0	1.0	6.0
Max 1 *	15	90	20	90
Yellow	3.0	4.7	3.0	4.7
Red Clear	2.1	1.0	2.3	1.0
Actuations B4 Add *	-	0	-	0
Seconds / Actuation *	-	2.0	-	2.0
Max Initial *	-	37	-	37
Time Before Reduction *	-	15	-	15
Time To Reduce *	-	30	-	30
Minimum Gap	-	3.2	-	3.2
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.



* 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

Prepared In the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SR 1404 (Morganton Road) at SR 1458 (Ruritan Drive) Fayetteville

Division 6 Cumberland County

PLAN DATE: March 2016 REVIEWED BY: JPG

PREPARED BY: Jeff Spence REVIEWED BY:

REVISIONS: INIT. DATE

SCALE: 1"=30'

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029904 JASON P. GALLAGHER

DocuSigned by: Jason P. Gallagher 5/6/2016

SIG. INVENTORY NO. 06-0688

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

06-MAY-2016 11:33 S:\MIS\GIS\ITS\SIGNAL\Signal Design\Section\Eastern Region\01\U-06\U-5742 Fayetteville ASC3\06-0688\060688.sigs.dsn_2016mmds.dgn