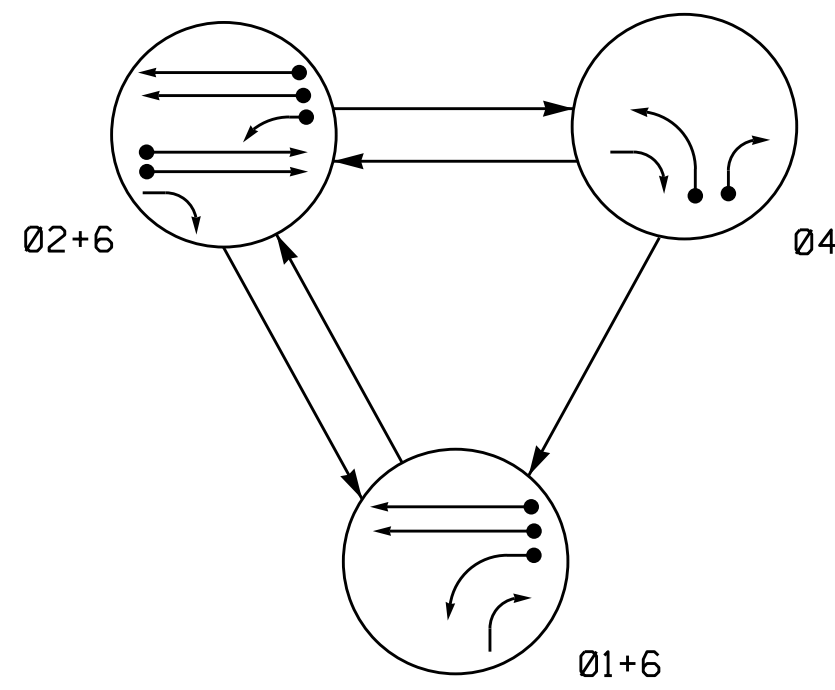
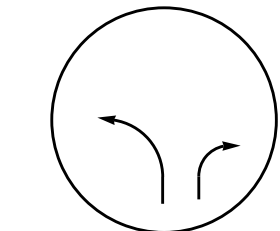


PHASING DIAGRAM



BACKUP PREEMPT PHASES (Medium Priority)

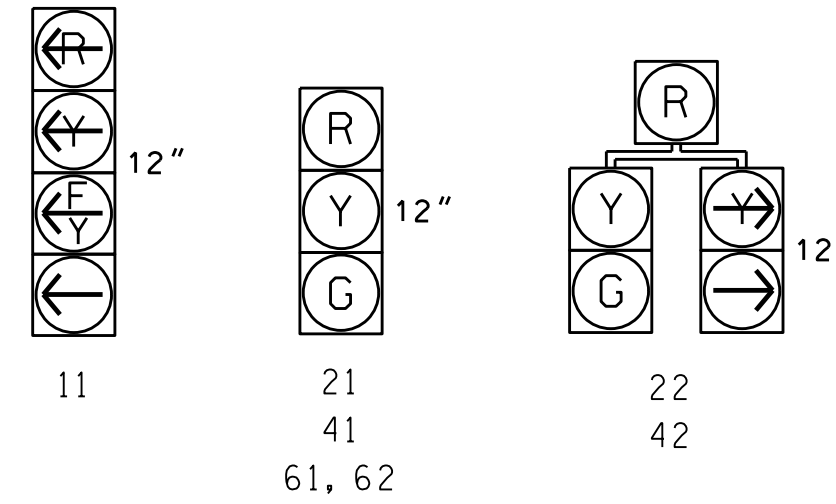


BACKUP PRE 3 (04)

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

SIGNAL FACE I.D.

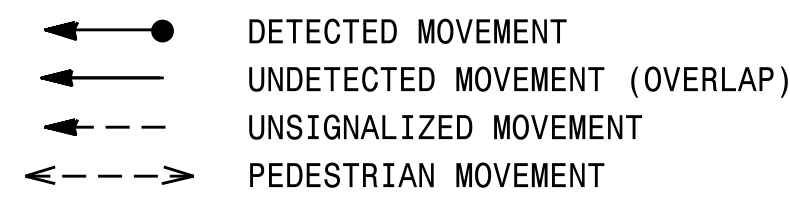
All Heads L.E.D.



ASC/3 DETECTOR INSTALLATION CHART										
DETECTOR					PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	NEW CARD
1A	6X60	0	2-4-2	-	1	Yes	-	15	S	- X
					6	Yes	-	3	G	- X
2A,2B	6X6	300	4	-	2	Yes	-	-	N	- X
* 4A	6X6	190	4	-	PRE	No	-	-	N	- X
* 4B	6X6	190	4	-	PRE	No	-	-	N	- X
* 4C	6X60	0	2-4-2	-	4	Yes	-	3	S	- X
* 4D	6X60	0	2-4-2	-	4	Yes	-	15	S	- X
6A,6B	6X6	300	5	-	6	Yes	-	-	N	- X
S2A	6X6	+124	4	-	-	No	-	-	N	X X
S2B	6X6	+124	4	-	-	No	-	-	N	X X
S6A	6X6	+141	4	-	-	No	-	-	N	X X
S6B	6X6	+141	4	-	-	No	-	-	N	X X

* See Notes 8 and 9

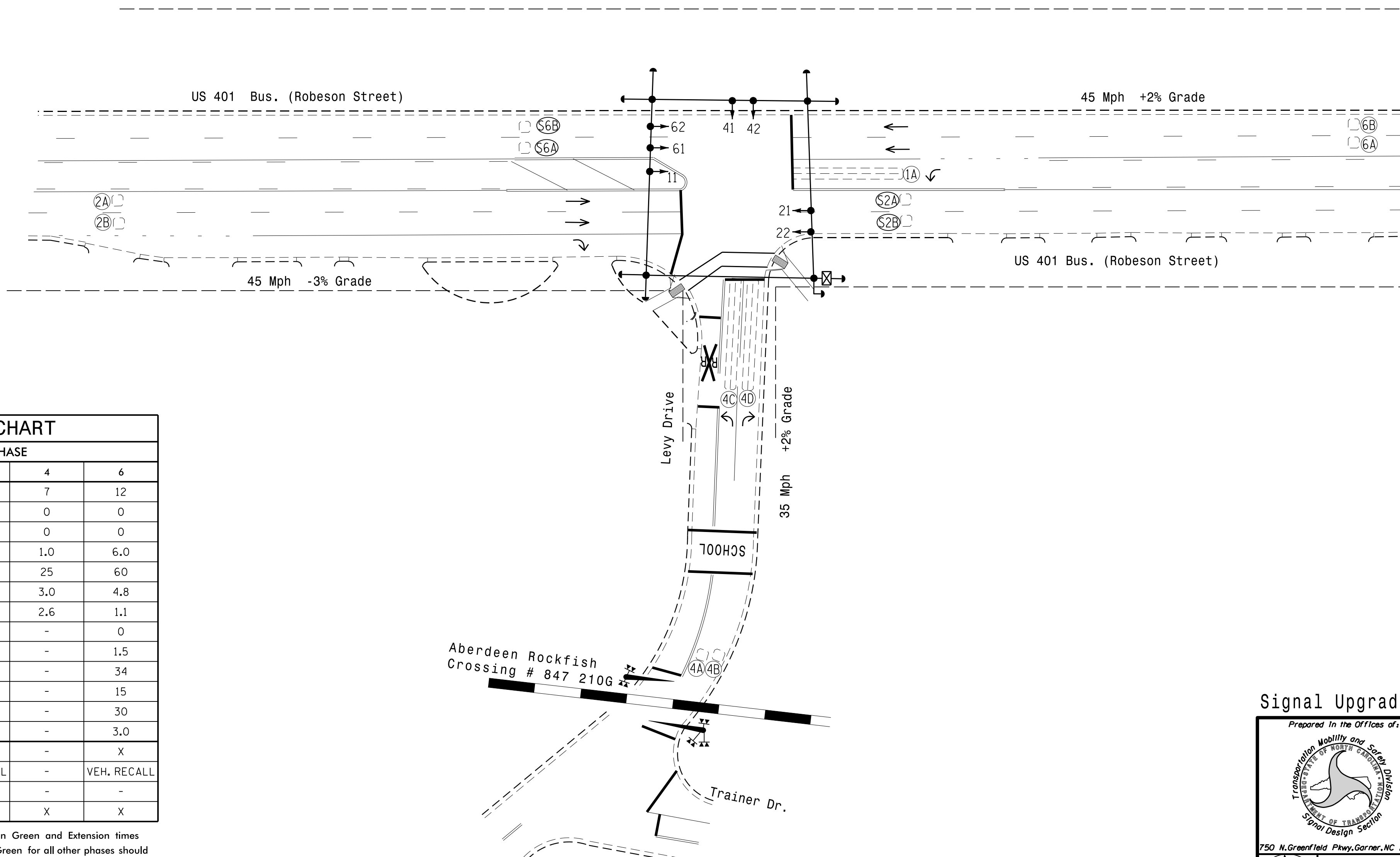
PHASING DIAGRAM DETECTION LEGEND



ASC/3 BACKUP PREEMPT

FUNCTION	PRE 3
Exit Phase(s)	2,6
Preempt Override	OFF
Delay Time	5
Ped Clear Through Yellow	N
Terminate Phases	N
Entrance Walk	255*
Entrance Ped Clear	255*
Entrance Min Green	1
Entrance Yellow Change	25.5*
Entrance Red Clear	25.5*
Minimum Dwell Time	24
Preempt Input Extension Time	0
Preempt Max Time	0
Exit Yellow Change	25.5*
Exit Red Clear	25.5*

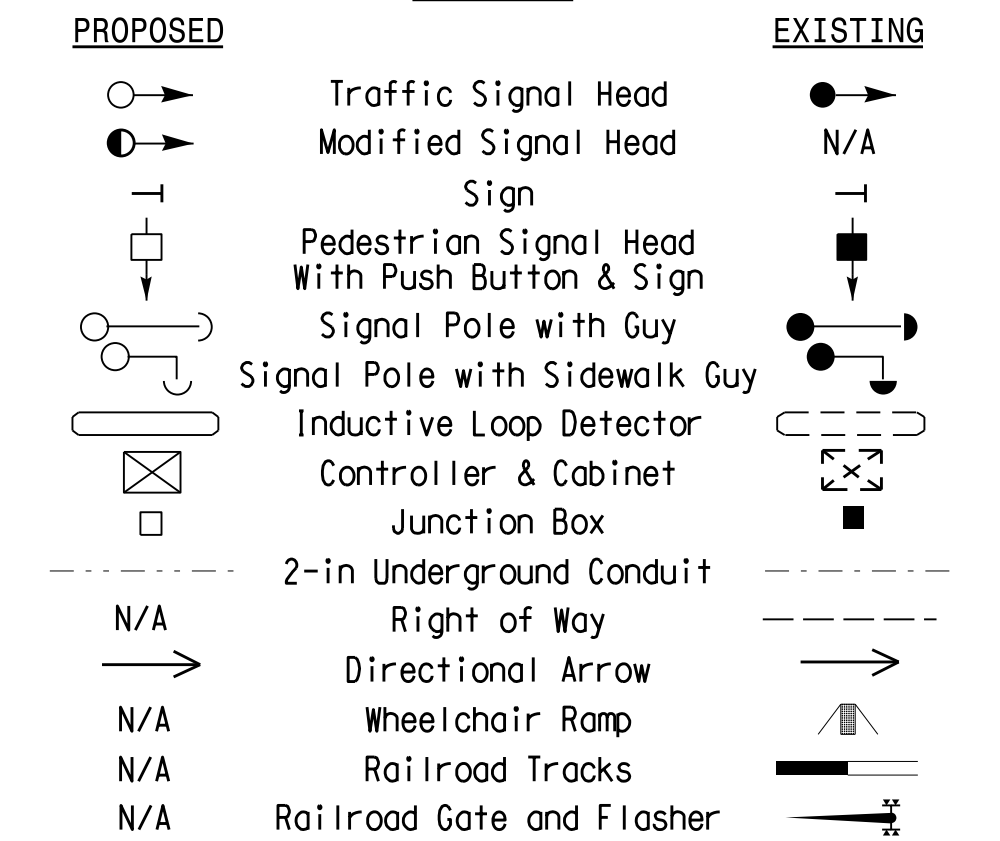
* Allows normal phase times to be used.



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 1 may be lagged.
- 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.
- Pavement markings are existing.
- A call must be placed on loops 4A and 4C or on loops 4B and 4D in order to initiate preemption.
- Program preemption to operate during school hours only: Monday through Friday between 7-9am and 1:30-3:30pm.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND



ASC/3 TIMING CHART

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 *	1.0	6.0	1.0	6.0
Max 1 *	20	60	25	60
Yellow	3.0	4.8	3.0	4.8
Red Clear	2.4	1.1	2.6	1.1
Actuations B4 Add *	-	0	-	0
Seconds / Actuation *	-	1.5	-	1.5
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

Prepared in the Offices of:

 750 N. Greenfield Pkwy, Garner, NC 27529

US 401 Bus (Robeson Street) at Levy Drive
 Division 6 Cumberland County Fayetteville
 PLAN DATE: July 2016 REVIEWED BY: JPG
 PREPARED BY: Jeff Spence REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529
 SCALE 0 40
 1" = 40'

REVISIONS INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 029904
 JASON P. GALLAGHER
 10/25/2016
 DATE
 SIG. INVENTORY NO. 06-1230

27-0017-2016 15-11
 S:\IT\ASU\15\Sig\Signal\Section\Eastern Region\04\U-5742 Fayetteville\11e ASC\3\606-1230\6061230_s1a.dsn_20161025.dgn
 J. Spence