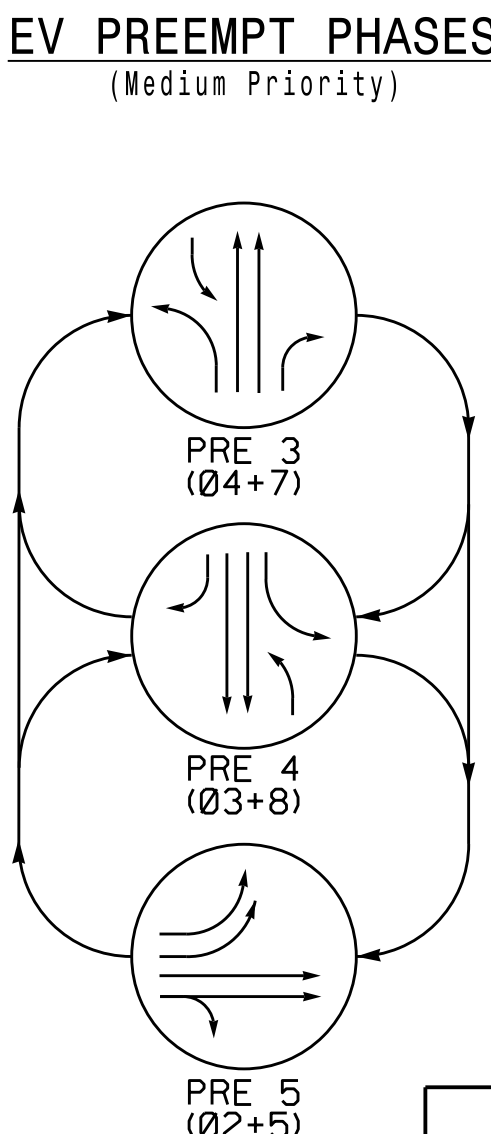
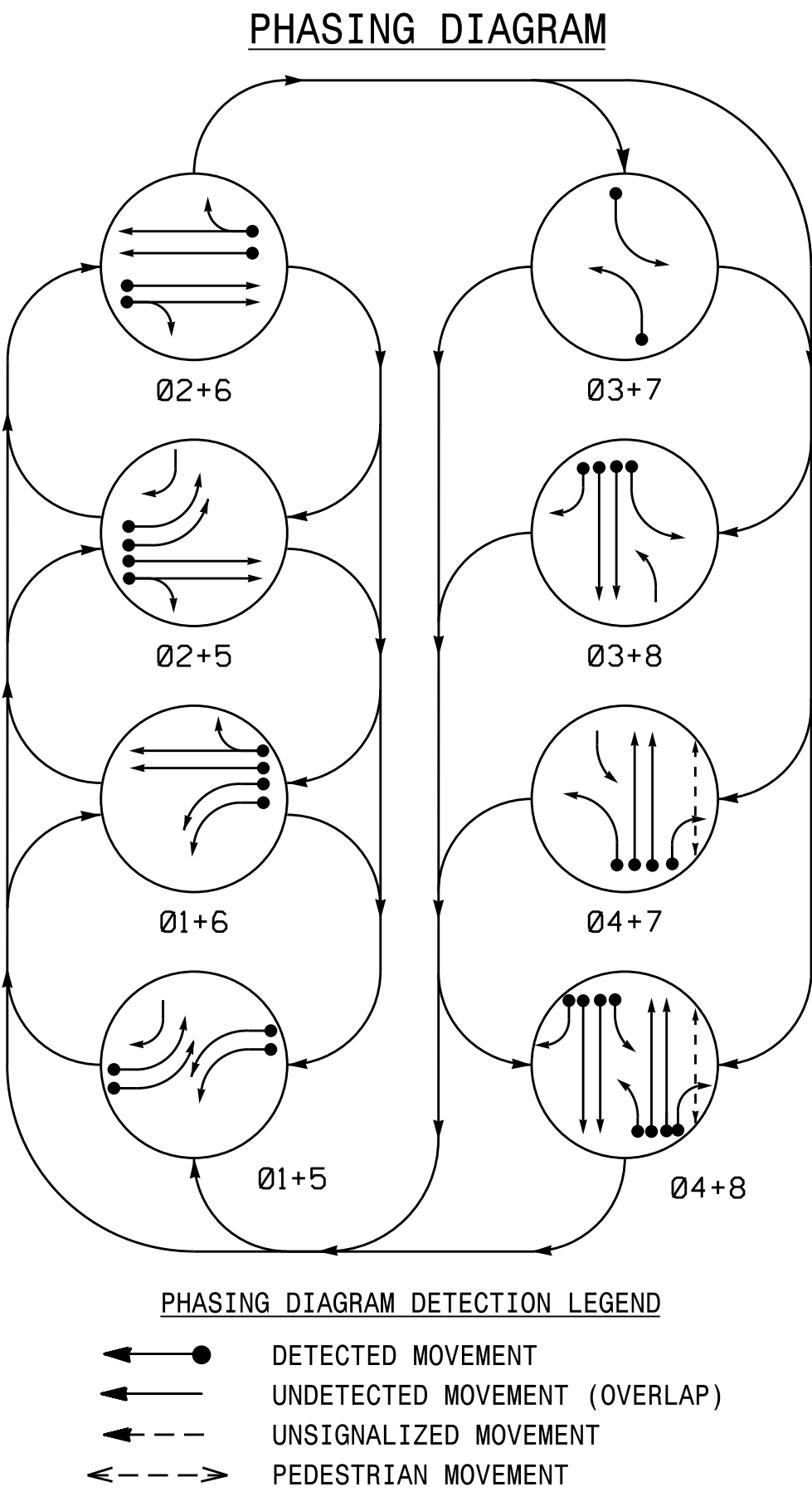


8 Phase  
Fully Actuated with EV Preempt  
Greenville Signal System

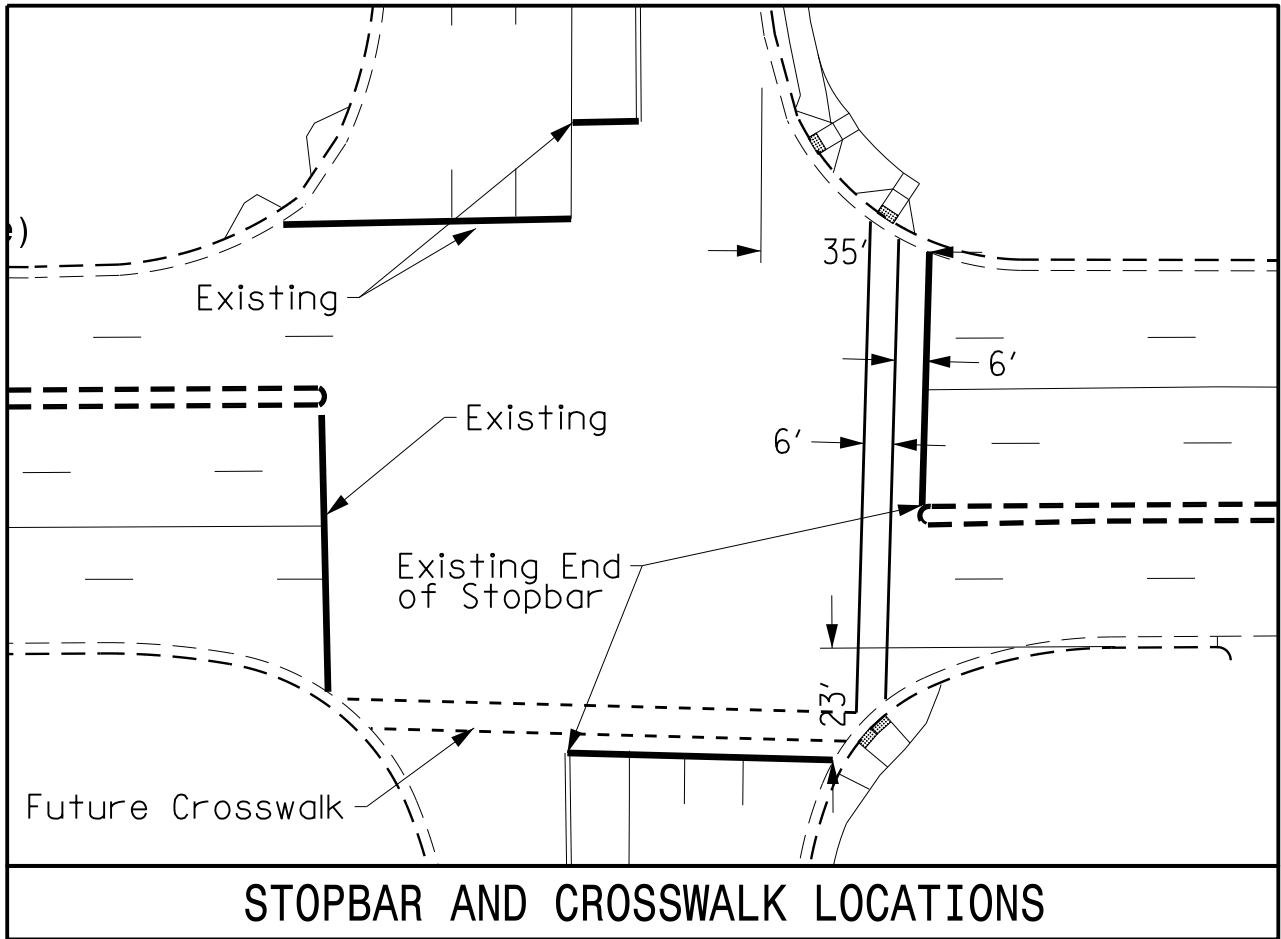


SIGNAL FACE	PHASE															
	01+5	02+5	02+6	03+7	03+8	04+7	04+8	PRE 3	PRE 4	PRE 5	FLASH					
11,12	←	←	←	←	←	←	←	←	←	←	←					
21,22	R	R	G	G	R	R	R	R	R	G	Y					
31	←	←	←	←	←	←	←	←	←	←	←					
41,42	R	R	R	R	R	G	G	G	R	R	R					
51,52	←	←	←	←	←	←	←	←	←	←	←					
61,62	R	G	R	G	R	R	R	R	R	R	Y					
71	←	←	←	←	←	←	←	←	←	←	←					
81	R	R	R	R	G	R	G	R	G	R	R					
82	R	R	R	R	G	R	G	R	G	R	R					
P41,P42	DW	DW	DW	DW	DW	W	W	DW	DW	DW	DRK					

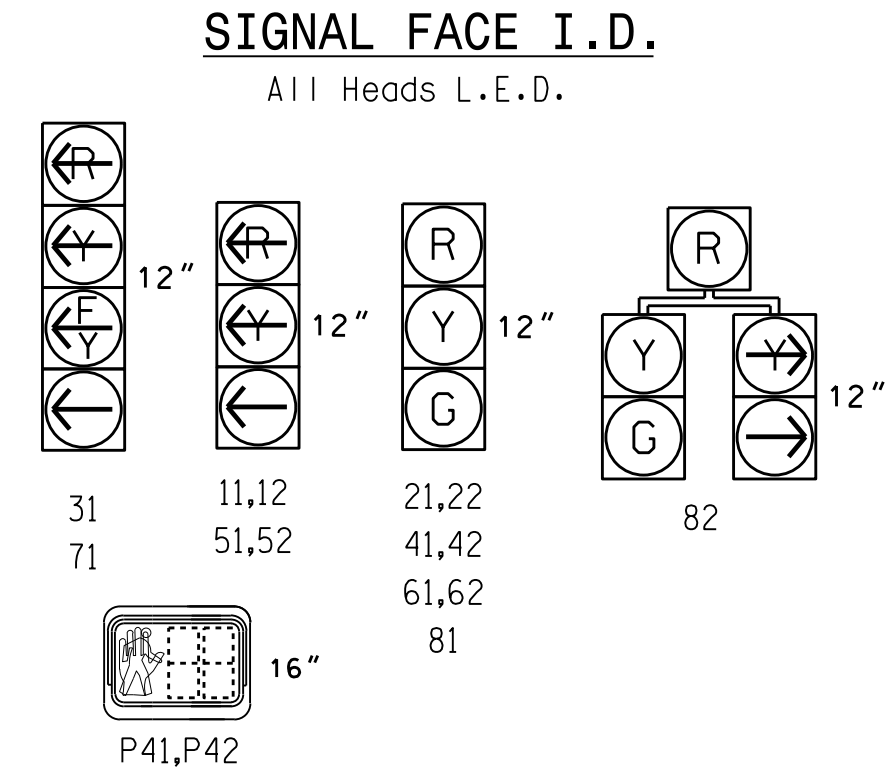
EMERGENCY VEHICLE PREEMPTION			
FUNCTION	PRE 3	PRE 4	PRE 5
DELAY BEFORE PREEMPT	0	0	0
PMT OVERRIDE	OFF	OFF	OFF
PED CLEAR THROUGH YELLOW	N	N	N
TERMINATE PHASES	N	N	N
ENTRANCE WALK	1	1	1
ENTRANCE PED CLEAR	255	255	255
ENTRANCE MIN GREEN	1	1	1
ENTRANCE YELLOW CLEAR	25.5*	25.5*	25.5*
ENTRANCE RED CLEAR	25.5*	25.5*	25.5*
MIN DWELL GREEN	7	7	7
MAX CALL TIME	120	120	120
EXIT PHASE(S)	2+6	2+6	2+6
EXIT YELLOW CLEAR	25.5*	25.5*	25.5*
EXIT RED CLEAR	25.5*	25.5*	25.5*
PREEMPT EXTEND**	2	2	2

\* Time defaults to time used for phase during normal operation.  
\*\* Program on Optical Detection Unit

LOOP & DETECTOR INSTALLATION CHART										
ASC/3 CONTROLLER w/ TS-2 CABINET										
INDUCTIVE LOOPS						DETECTOR UNITS				
LOOP NO.	SIZE (ft)	DIST. FROM STOPBAR (ft)	TURNS	NEW	EXISTING	TIMING		DET. TYPE		
						FEATURE	TIME			
1A,1B	6X40	+5	2-4-2	-	X	1	-	X	-	S
2A	6X6	300	4	-	X	2	-	X	-	S
2B	6X6	300	4	-	X	2	-	X	-	S
3A	6X40	+5	2-4-2	-	X	3	-	X	DELAY 15	S
4A,4B	6X60	+5	2-4-2	-	X	4	-	X	-	S
4C	6X60	+5	2-4-2	-	X	4	-	X	DELAY 10	S
5A,5B	6X40	+5	2-4-2	-	X	5	-	X	-	S
6A	6X6	300	5	-	X	6	-	X	-	S
6B	6X6	300	5	-	X	6	-	X	-	S
7A	6X40	+5	2-4-2	-	X	7	-	X	DELAY 15	S
8A,8B,8C	6X6	300	4	-	X	8	-	X	DC/EC 100/5	S
8D	6X40	+5	2-4-2	-	X	8	-	X	-	S
8E	6X40	+5	2-4-2	-	X	8	-	X	-	S
8F	6X40	+5	2-4-2	-	X	8	-	X	DELAY 10	S



- 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 and/or phase 5 may be lagged.
  - Phase 3 and/or phase 7 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.
  - Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
  - Program pedestrian heads to countdown the flashing "Don't Walk" time only.
  - Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
  - This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
  - Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



TIMING CHART								
ECONOLITE ASC/3 CONTROLLER								
PHASE	01	02	03	04	05	06	07	08
MINIMUM GREEN *	4 SEC.	12 SEC.	4 SEC.	7 SEC.	4 SEC.	12 SEC.	4 SEC.	7 SEC.
VEHICLE EXT. *	1.0 SEC.	6.0 SEC.	2.0 SEC.	2.0 SEC.	1.0 SEC.	6.0 SEC.	2.0 SEC.	2.0 SEC.
YELLOW CHANGE INT.	3.0 SEC.	4.5 SEC.	3.0 SEC.	4.5 SEC.	3.0 SEC.	4.5 SEC.	3.0 SEC.	4.5 SEC.
RED CLEARANCE	3.3 SEC.	1.8 SEC.	3.3 SEC.	2.4 SEC.	3.2 SEC.	1.9 SEC.	3.3 SEC.	2.4 SEC.
MAX. 1 *	30 SEC.	120 SEC.	30 SEC.	45 SEC.	30 SEC.	120 SEC.	30 SEC.	45 SEC.
RECALL POSITION	NONE	MIN. RECALL	NONE	NONE	NONE	MIN. RECALL	NONE	NONE
LOCK DET.	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
WALK *	- SEC.	- SEC.	- SEC.	7 SEC.	- SEC.	- SEC.	- SEC.	- SEC.
PED. CLEAR	- SEC.	- SEC.	- SEC.	27 SEC.	- SEC.	- SEC.	- SEC.	- SEC.
VOLUME DENSITY	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
ACTUATION B4 ADD *	- VEH.	0 VEH.	- VEH.	- VEH.	- VEH.	0 VEH.	- VEH.	- VEH.
SEC. PER ACTUATION *	- SEC.	1.5 SEC.	- SEC.	- SEC.	- SEC.	1.5 SEC.	- SEC.	- SEC.
MAX. INITIAL *	- SEC.	35 SEC.	- SEC.	- SEC.	- SEC.	35 SEC.	- SEC.	- SEC.
TIME B4 REDUCTION *	- SEC.	15 SEC.	- SEC.	- SEC.	- SEC.	15 SEC.	- SEC.	- SEC.
TIME TO REDUCE *	- SEC.	50 SEC.	- SEC.	- SEC.	- SEC.	50 SEC.	- SEC.	- SEC.
MINIMUM GAP	- SEC.	3.5 SEC.	- SEC.	- SEC.	- SEC.	3.5 SEC.	- SEC.	- SEC.
DUAL ENTRY	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
SIMULTANEOUS GAP	ON	ON	ON	ON	ON	ON	ON	ON

\* 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

NC 11-43-903 (Memorial Dr.)  
at  
Arlington Blvd.

Division 2 Pitt County Greenville

PLAN DATE: May 2015 REVIEWED BY: JPG

PREPARED BY: Jeff Spence REVIEWED BY:

REVISIONS

INIT. DATE

Designed by: Jason Gallaway

6/10/2015

SIG. INVENTORY NO. 02-0368

SEAL

NORTH CAROLINA

PROFES SIGNAL

SEAL

029904

ENGINEER

JASON P. GALLOWAY