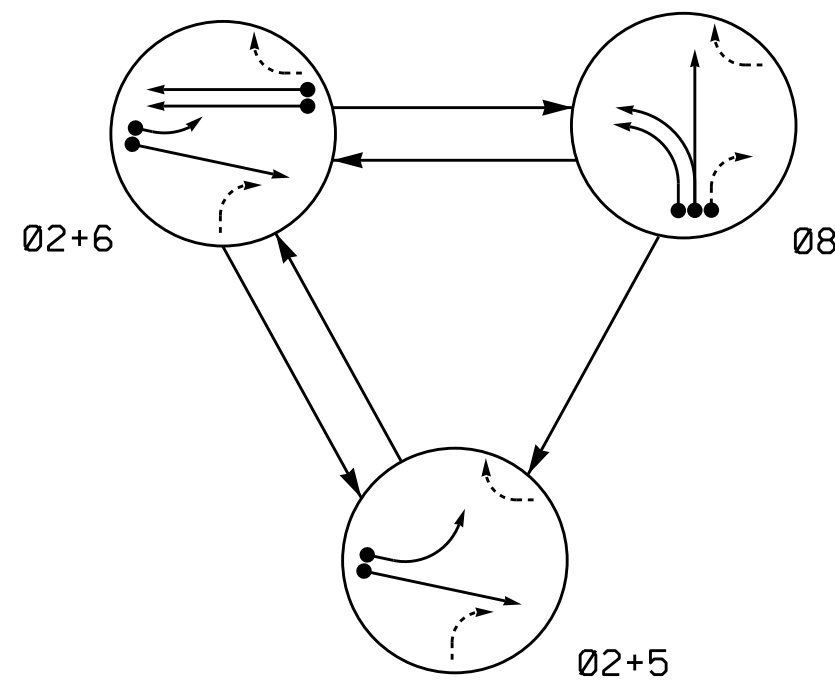
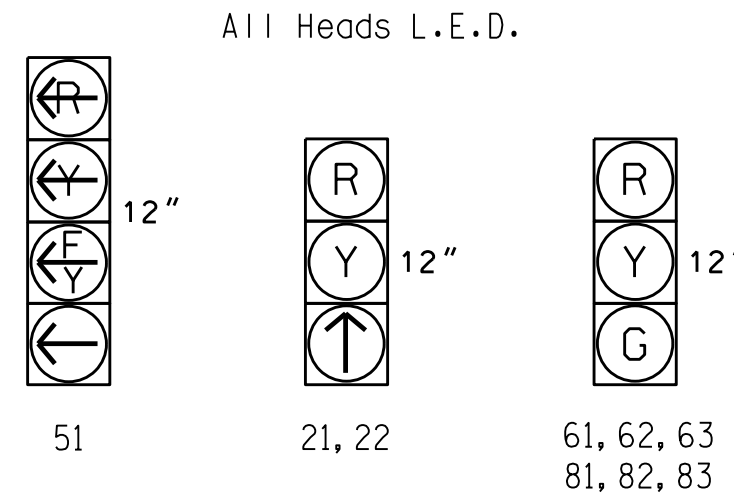


PHASING DIAGRAM



SIGNAL FACE	PHASE			
	02+5	02+6	08	F L R Y
21, 22	↑	↑	R	Y
51	←	←	R	Y
61, 62, 63	R	G	R	Y
81, 82, 83	R	R	G	R

SIGNAL FACE I.D.



LOOP & DETECTOR INSTALLATION CHART ASC/3-2070EN2 CONTROLLER w/ TS-2 CABINET										
ZONE NO.	SIZE (ft)	DIST. FROM STOPBAR (ft)	TURNS	NEW EXISTING	NEMA PHASE	DETECTOR UNITS			ADDED INITIAL	DET. TYPE
						NEW	EXISTING	TIME (sec)		
2A*	6X6	300	*	X	2	*	-	-	X	N
5A*	6X40	0	*	-	5	-	DELAY	15	-	S
6A*	6X6	300	*	-	6	-	-	-	X	N
6B*	6X6	300	*	-	6	-	-	-	X	N
8A*	6X40	0	*	X	8	*	-	-	-	S
8B*	6X40	0	*	X	8	*	-	-	-	S
8C*	6X40	0	*	X	8	*	DELAY	20	-	S

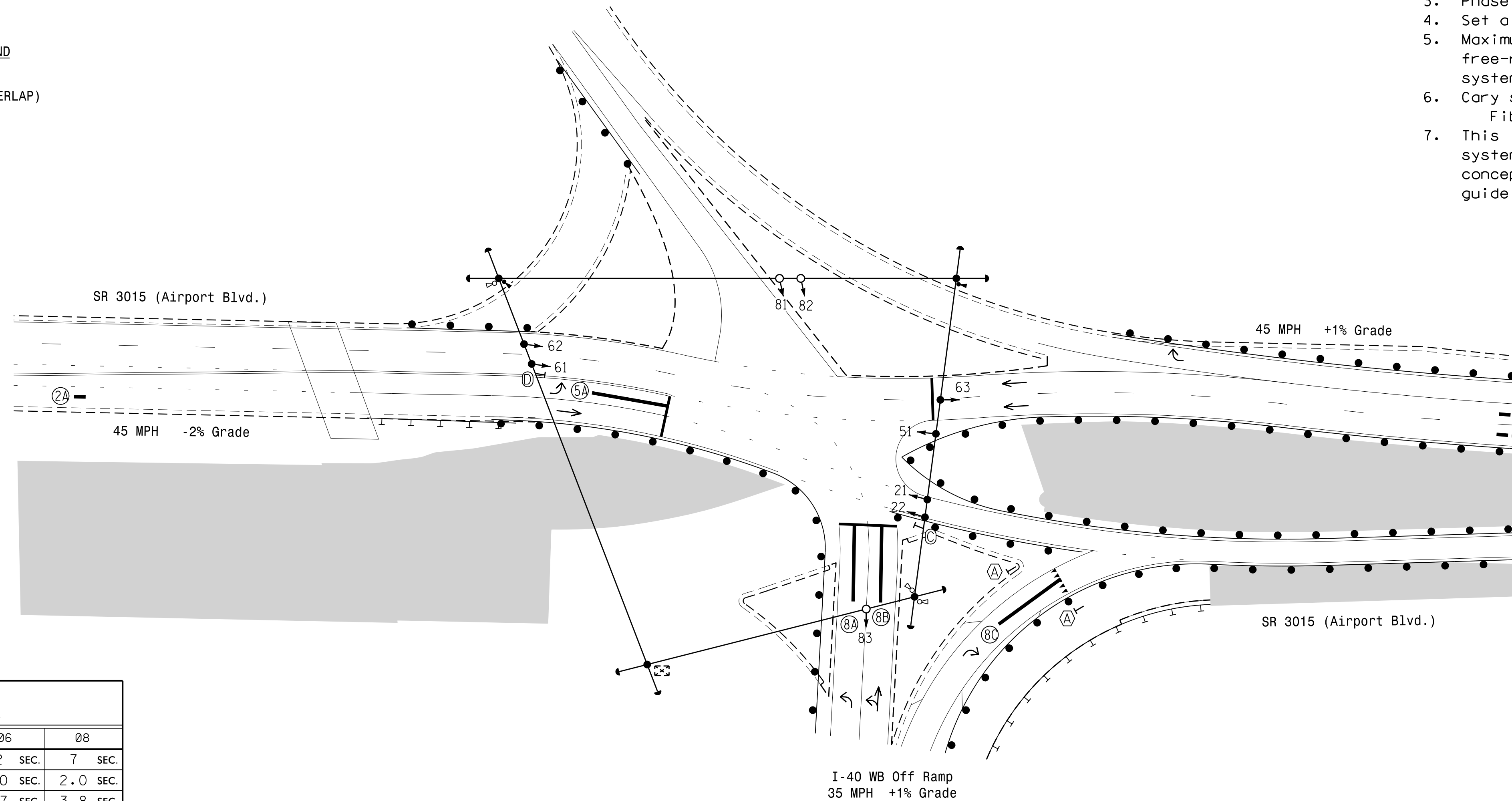
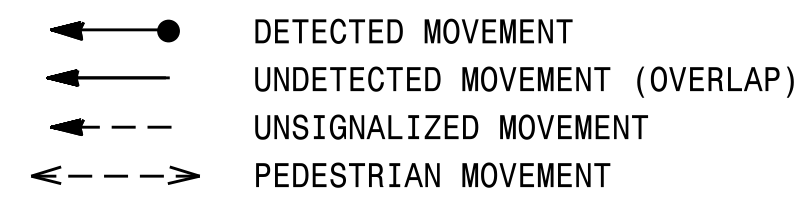
* Video detection zone.

3 Phase Fully Actuated (Cary Signal System)

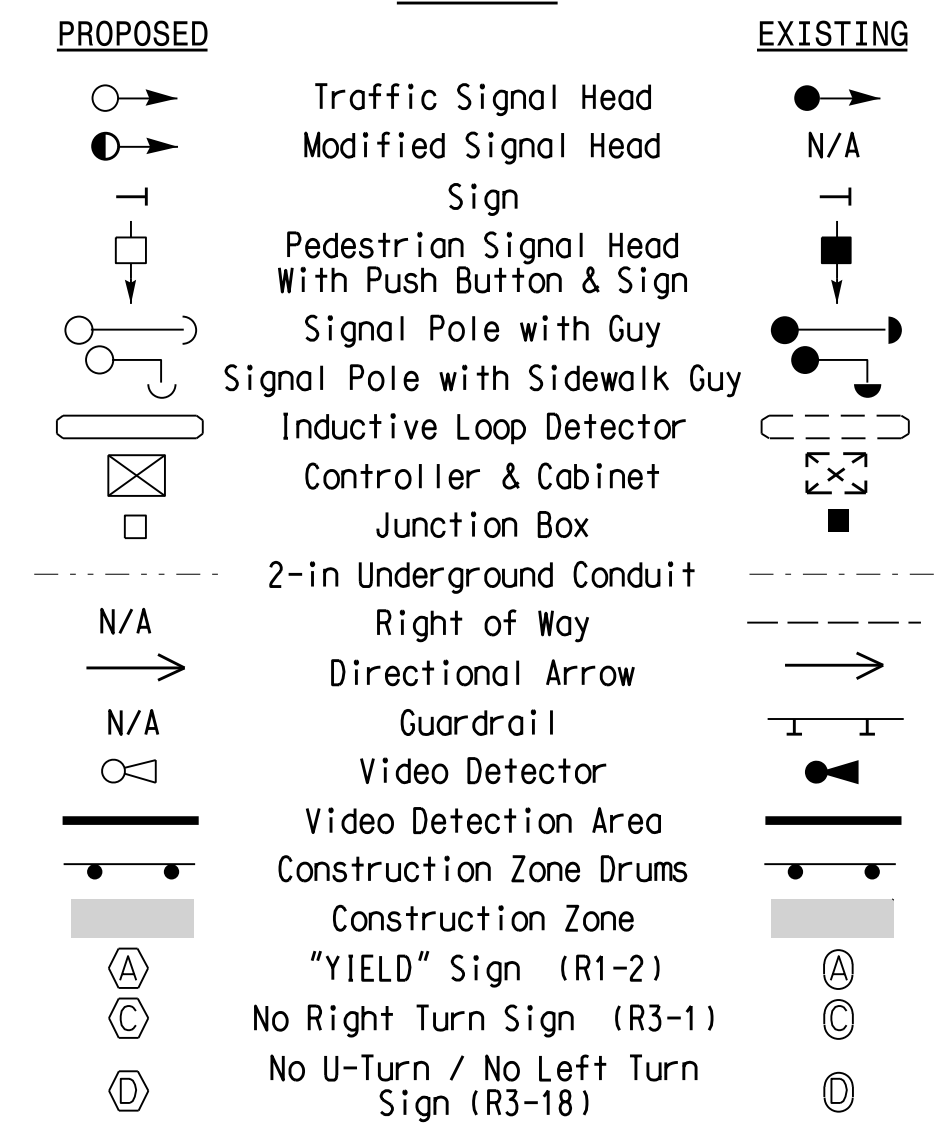
NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 5 may be lagged.
- Set all detector units to presence mode.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Cary signal system data:
Fiber channel #: 26.
- This intersection features a video detection system. Shown locations of detectors are conceptual only. Refer to the manufacturer's guidelines for optimal detector placement.

PHASING DIAGRAM DETECTION LEGEND



LEGEND



TIMING CHART ASC/3-2070EN2 CONTROLLER				
PHASE	02	05	06	08
MINIMUM GREEN *	12 SEC.	7 SEC.	12 SEC.	7 SEC.
VEHICLE EXT. *	6.0 SEC.	2.0 SEC.	6.0 SEC.	2.0 SEC.
YELLOW CHANGE INT.	4.7 SEC.	3.0 SEC.	4.7 SEC.	3.8 SEC.
RED CLEARANCE	2.0 SEC.	1.9 SEC.	2.0 SEC.	2.7 SEC.
MAX. 1 *	120 SEC.	35 SEC.	120 SEC.	50 SEC.
MAX. 2 *	35 SEC.	15 SEC.	35 SEC.	90 SEC.
RECALL POSITION	MIN. RECALL	NONE	MIN. RECALL	NONE
LOCK DET.	ON	OFF	ON	OFF
WALK *	- SEC.	- SEC.	- SEC.	- SEC.
PED. CLEAR	- SEC.	- SEC.	- SEC.	- SEC.
VOLUME DENSITY	ON	OFF	ON	OFF
ACTUATION B4 ADD *	- VEH.	- VEH.	- VEH.	- VEH.
SEC. PER ACTUATION *	2.5 SEC.	- SEC.	1.5 SEC.	- SEC.
MAX. INITIAL *	34 SEC.	- SEC.	34 SEC.	- SEC.
TIME B4 REDUCTION *	15 SEC.	- SEC.	15 SEC.	- SEC.
TIME TO REDUCE *	45 SEC.	- SEC.	45 SEC.	- SEC.
MINIMUM GAP	3.0 SEC.	- SEC.	3.0 SEC.	- SEC.
DUAL ENTRY	OFF	OFF	OFF	OFF
SIMULTANEOUS GAP	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.

This plan supersedes the plan signed and sealed on 7/24/19.

Signal Upgrade - Temporary Design 3 (TMP Phase III, Step B)

SR 3015 (Airport Boulevard) at I-40 WB Ramps

Division 5 Wake County Morrisville

PLAN DATE: September 2019 REVIEWED BY:

PREPARED BY: J.A. Lohr REVIEWED BY:

REVISIONS INIT. DATE

SCALE 0 40 1"=40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER ROBERT J. ZIEMBA 026486

10/2/2019 DATE

SIG. INVENTORY NO. 05-116873

09-2019-2019 19:37 S:\MIS\ASU\115\Sig\05-116873\Sig.dgn 20191002.dgn