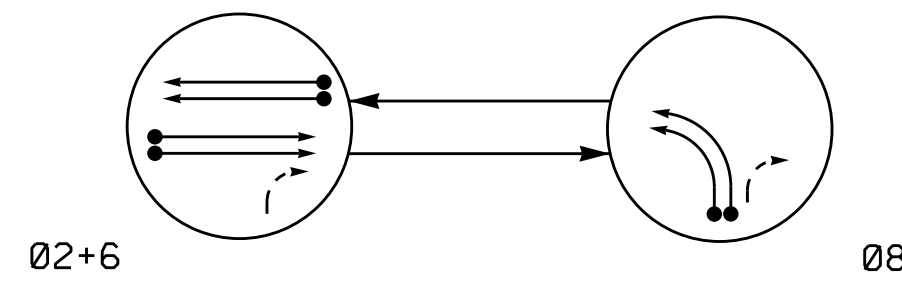


PHASING DIAGRAM



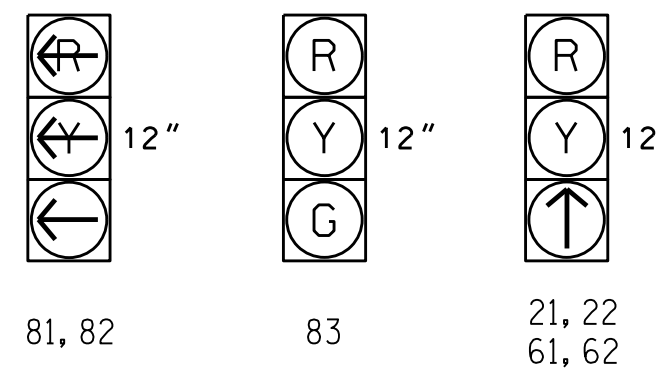
PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- - - UNSIGNALIZED MOVEMENT
- - - PEDESTRIAN MOVEMENT

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

SIGNAL FACE I.D.

All Heads L.E.D.



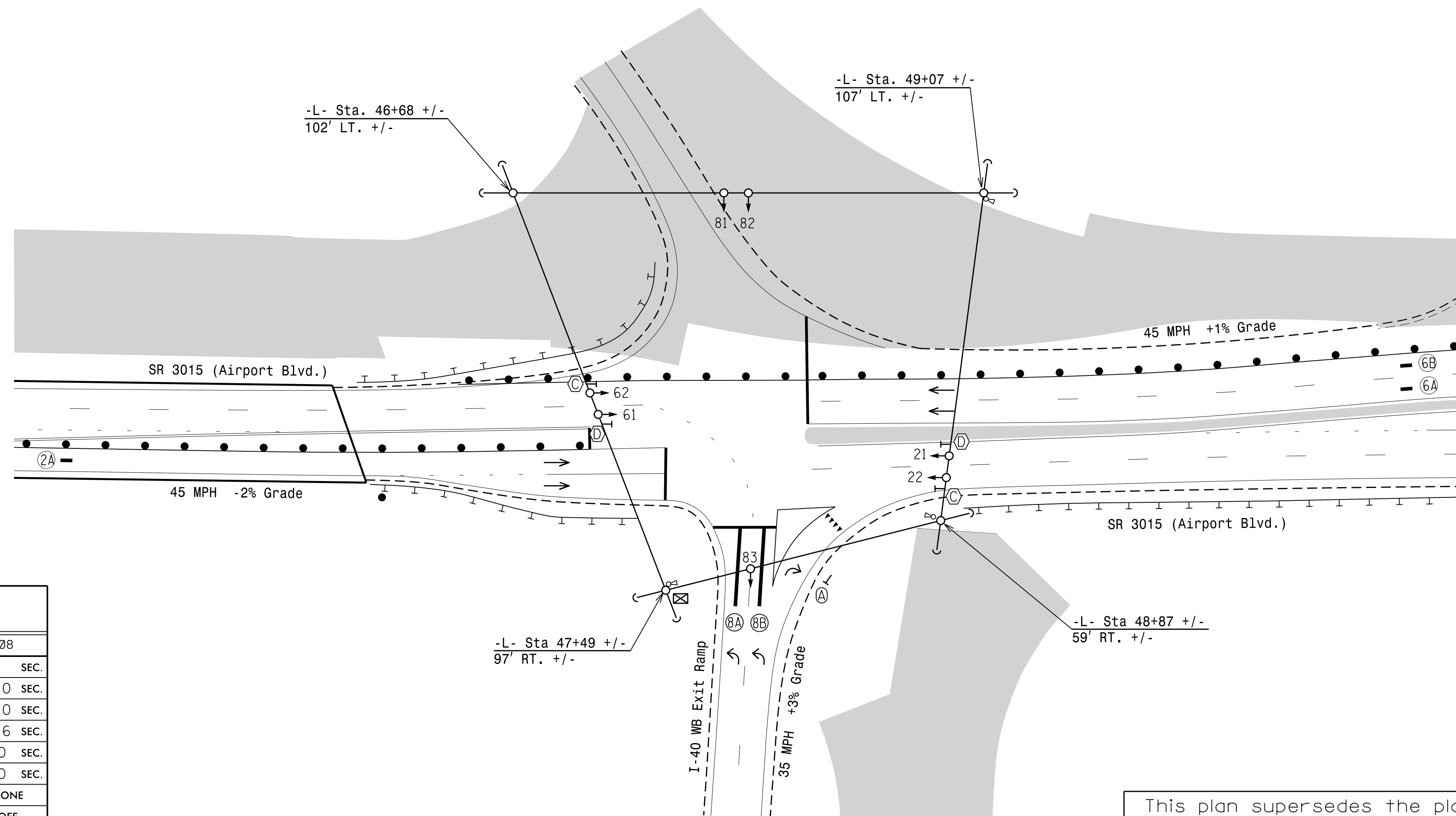
LOOP & DETECTOR INSTALLATION CHART												
ASC/3-2070EN2 CONTROLLER w/ TS-2 CABINET												
ZONE NO.	SIZE (ft)	DIST. FROM STOPBAR (ft)	TURNS	INDUCTIVE LOOPS		DETECTOR UNITS						
				NEW	EXISTING	TIMING		ADDED INITIAL	DET. TYPE			
FEATURE	TIME (sec)											
2A*	6X6	300	*	X	-	2	*	-	-	-	X	N
6A*	6X6	300	*	X	-	6	*	-	-	-	X	N
6B*	6X6	300	*	X	-	6	*	-	-	-	X	N
8A*	6X40	0	*	X	-	4	*	-	-	-	-	S
8B*	6X40	0	*	X	-	4	*	-	DELAY	3	-	S

*Video detection zone.

2 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.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.
- 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 Chabnnel #: 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.



TIMING CHART			
ASC/3-2070EN2 CONTROLLER			
PHASE	02	06	08
MINIMUM GREEN *	12 SEC.	12 SEC.	7 SEC.
VEHICLE EXT. *	6.0 SEC.	6.0 SEC.	2.0 SEC.
YELLOW CHANGE INT.	4.7 SEC.	4.7 SEC.	3.0 SEC.
RED CLEARANCE	1.0 SEC.	1.0 SEC.	2.6 SEC.
MAX. 1 *	120 SEC.	120 SEC.	50 SEC.
MAX. 2 *	35 SEC.	35 SEC.	90 SEC.
RECALL POSITION	MIN. RECALL	MIN. RECALL	NONE
LOCK DET.	ON	ON	OFF
WALK *	- SEC.	- SEC.	- SEC.
PED. CLEAR	- SEC.	- SEC.	- SEC.
VOLUME DENSITY	ON	ON	OFF
ACTUATION B4 ADD *	- VEH.	- VEH.	- VEH.
SEC. PER ACTUATION *	2.5 SEC.	1.5 SEC.	- SEC.
MAX. INITIAL *	34 SEC.	34 SEC.	- SEC.
TIME B4 REDUCTION *	15 SEC.	15 SEC.	- SEC.
TIME TO REDUCE *	45 SEC.	45 SEC.	- SEC.
MINIMUM GAP	3.0 SEC.	3.0 SEC.	- SEC.
DUAL ENTRY	OFF	OFF	OFF
SIMULTANEOUS GAP	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.

LEGEND

- | | | | |
|--|--|--|---------------------|
| | TRAFFIC SIGNAL HEAD | | TRAFFIC SIGNAL HEAD |
| | MODIFIED SIGNAL HEAD | | N/A |
| | SIGN | | N/A |
| | PEDESTRIAN SIGNAL HEAD WITH PUSH BUTTON & SIGN | | N/A |
| | SIGNAL POLE WITH GUY | | N/A |
| | SIGNAL POLE WITH SIDEWALK GUY | | N/A |
| | INDUCTIVE LOOP DETECTOR | | N/A |
| | CONTROLLER & CABINET | | N/A |
| | JUNCTION BOX | | N/A |
| | 2-IN UNDERGROUND CONDUIT | | N/A |
| | RIGHT OF WAY | | N/A |
| | DIRECTIONAL ARROW | | N/A |
| | GUARDRAIL | | N/A |
| | VIDEO DETECTOR | | N/A |
| | VIDEO DETECTION AREA | | N/A |
| | CONSTRUCTION ZONE DRUMS | | N/A |
| | CONSTRUCTION ZONE | | N/A |
| | "YIELD" SIGN (R1-2) | | (A) |
| | NO RIGHT TURN SIGN (R3-1) | | (C) |
| | NO U-TURN / NO LEFT TURN SIGN (R3-18) | | (D) |

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

Signal Upgrade - Temporary Design 1 (TMP Phase II)

750 N. Greenfield Pkwy, Garner, NC 27529

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 40

1"=40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

SEAL 026486

ROBERT J. ZIEMBA

10/2/2019

SIG. INVENTORY NO. 05-1168T1

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