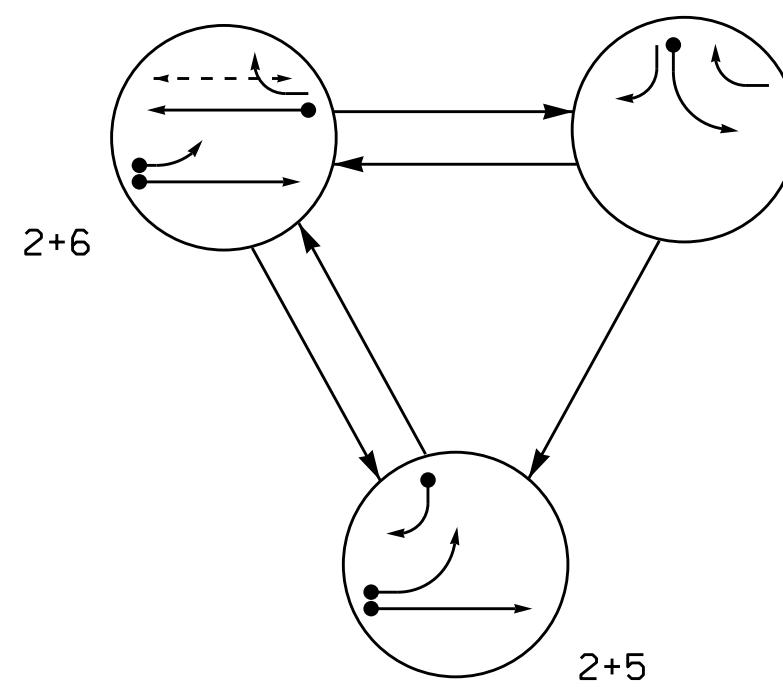
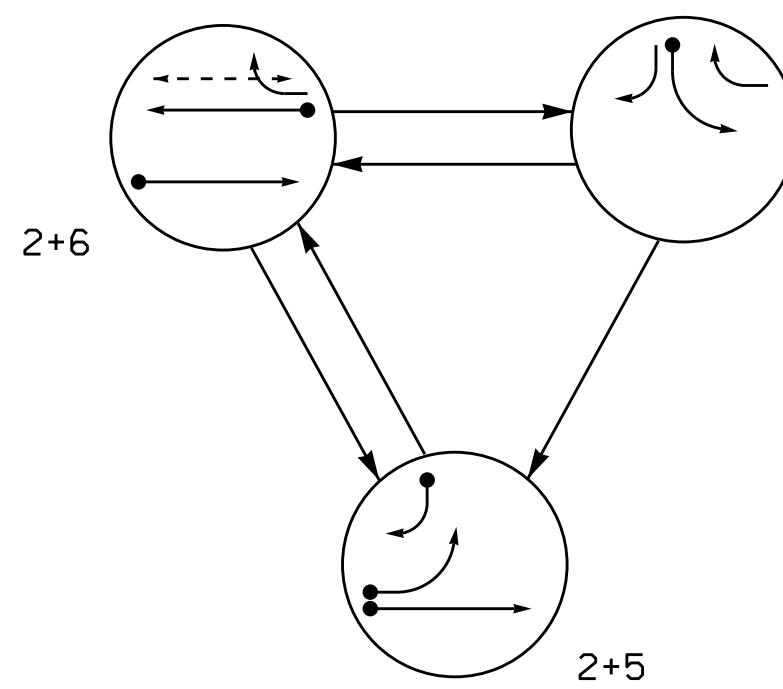


DEFAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION			
SIGNAL FACE	PHASE		
	2 + 5	2 + 6	4
21, 22	G	G	R
41, 43	←R	←R	←
42	→	R	→
51	←	←Y	←R
61, 62	R	G	R
63	R	←Y	→
P61, P62	DW	W	DW

ALTERNATE PHASING DIAGRAM



ALTERNATE PHASING TABLE OF OPERATION			
SIGNAL FACE	PHASE		
	2 + 5	2 + 6	4
21, 22	G	G	R
41, 43	←R	←R	←
42	→	R	→
51	←	←R	←R
61, 62	R	G	R
63	R	F Y	→
P61, P62	DW	W	DW

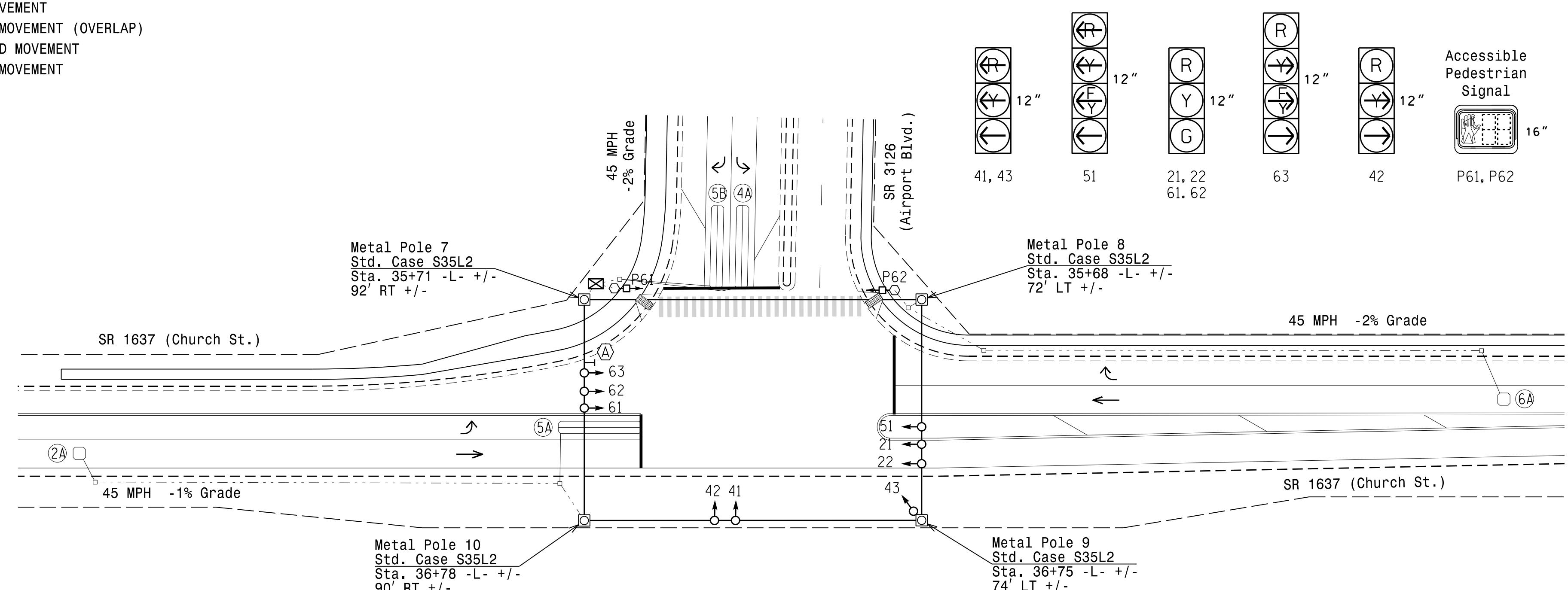
3 Phase Fully Actuated (Cary Signal System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
 3. Phase 5 may be lagged.
 4. Set all detector units to presence mode.
 5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
 6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
 7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
 8. This intersection features accessible pedestrian signals utilizing percussive tone walk indications and/or speech messages.
 9. The Division (Town) Traffic Engineer will determine the hours of use for each phasing plan.
 0. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

SIGNAL FACE I.D.

All Heads L.E.D.



TIMING CHART

TIMING CHART ASC/3-2070LXN2 CONTROLLER					
PHASE	02	04	05	06	
MINIMUM GREEN *	12 SEC.	7 SEC.	7 SEC.	12 SEC.	
DELAYED GREEN *	— SEC.	— SEC.	— SEC.	7 SEC.	
VEHICLE EXT. *	6.0 SEC.	2.0 SEC.	2.0 SEC.	6.0 SEC.	
YELLOW CHANGE INT.	4.7 SEC.	3.0 SEC.	3.0 SEC.	4.7 SEC.	
RED CLEARANCE	1.6 SEC.	3.2 SEC.	3.2 SEC.	1.6 SEC.	
MAX. 1 *	75 SEC.	30 SEC.	15 SEC.	75 SEC.	
RECALL POSITION	MIN. RECALL	NONE	NONE	MIN. RECALL	
LOCK DET.	ON	OFF	OFF	ON	
WALK *	— SEC.	— SEC.	— SEC.	14 SEC.	
PED. CLEAR	— SEC.	— SEC.	— SEC.	25 SEC.	
ACTUATION B4 ADD *	— VEH.	— VEH.	— VEH.	— VEH.	
SEC. PER ACTUATION *	2.5 SEC.	— SEC.	— SEC.	2.5 SEC.	
MAX. INITIAL *	34 SEC.	— SEC.	— SEC.	34 SEC.	
TIME B4 REDUCTION *	15 SEC.	— SEC.	— SEC.	15 SEC.	
TIME TO REDUCE *	30 SEC.	— SEC.	— SEC.	30 SEC.	
MINIMUM GAP	3.0 SEC.	— SEC.	— SEC.	3.0 SEC.	
DUAL ENTRY	OFF	OFF	OFF	OFF	
SIMULTANEOUS GAP	ON	ON	ON	ON	

LOOP & DETECTOR INSTALLATION CHA ASC/3-2070LXN2 CONTROLLER w/ TS-2 CABINET

INDUCTIVE LOOPS						DETECTOR UNITS				
LOOP NO.	SIZE (ft)	DIST. FROM STOPBAR (ft)	TURNS	NEW	EXISTING	NEMA PHASE	NEW	EXISTING	TIMING	
									FEATURE	TIME
2A	6X6	300	5	X	-	2	X	-	-	-
4A	6X40	0	2-4-2	X	-	4	X	-	-	-
5A	6X40	0	2-4-2	X	-	5	X	-	DELAY	15.0*
						2 [#]	X	-	DELAY	3.0
5B	6X40	0	2-4-2	X	-	5	X	-	DELAY	15.0
6A	6X6	300	5	X	-	6	X	-	-	-

- * Disable delay during Alternate Phasing Operation.
- # Disable phase call for loop during Alternate Phasing Operation

ACCESSIBLE PEDESTRIAN SIGNAL OPERATION

ACCESSIBLE PEDESTRIAN SIGNAL OPERATION				
SIGNAL FACE	VOICE	TONES	INTERVAL	SPEECH MESSAGE
P61, P62	-	X	Walk	(Percussive Tone)
	X	-	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Airport.

New Installation

<p>Prepared in the Offices of:</p>  <p>750 N. Greenfield Pkwy. Garner, NC 27529</p>		<p>SR 1637 (Church Street) at SR 3126 (Airport Boulevard)</p>		<p>SIGNATURES COMPLETED</p>	
		<p>Division 5 Wake County Morrisville</p>			
<p>PLAN DATE: October 2025</p>		<p>REVIEWED BY:</p>			
<p>PREPARED BY: J. A. Lohr</p>		<p>REVIEWED BY:</p>			
	<p>SCALE</p>		<p>REVISIONS</p>		<p>INIT.</p>
	0	40			DATE
				<p>1" - 40'</p>	
<p>DocuSigned by:  </p>					
<p>100049660744404... SIC INVENTORY NO. 05-1044</p>					

LEGEND

<u>PROPOSED</u>		<u>EXISTING</u>
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
-----	2-in Underground Conduit	-----
N/A	Right of Way	-----
	Directional Arrow	
	Metal Strain Pole	
N/A	Curb Ramp	
	"RIGHT TURN YIELD TO U-TURN" Sign	

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

**NORTH CAROLINA
PROFESSION**

ROBERT ENGINEER M.B.A.

DocuSigned by:

Robert J. Farra 10/28/22
1B0B4B00274A404... DAT
SIG. INVENTORY NO. 05 12