## 3 Phase Fully Actuated (Cary Signal System)

## NOTES

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 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
- 6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 7. Cary signal system data: Fiber channel #: 26.
- 8. This intersection features a video detection system. Shown locations of detectors are conceptual only. Refer to the manufacturer's guidelines for optimal detector placement.

LOOP & DETECTOR INSTALLATION CHART ASC/3-2070EN2 CONTROLLER W/ TS-2 CABINET													
INDUCTIVE LOOPS							DETECTOR UNITS						
LOOP /	I SIOPRAR I IIIRNS I WIFT			*	TING	NEMA	EW	EXISTING	TIMING		ADDED	DET.	
ZONE NO.		PHASE	🛱	EXIS	FEATURE	TIME	INITIAL	TYPE					
2A <del>*</del>	6X6	300	*	Χ	-	2	*	-	-	-	Χ	N	
2B <del>*</del>	6X6	300	*	Х	-	2	*	-	-	_	Χ	N	
4A	6X40	0	2-4-2	Х	-	4	Χ	_	-	_	-	S	
5A <del>*</del>	6X40	0	*	X		5	*	-	DELAY	15	-	S	
						2	*	-	DELAY	3	-	G	
5B	6X40	0	2-4-2	Χ	-	5	Χ	-	DELAY	15	-	S	
5C	6X40	0	2-4-2	Χ	-	5	Χ	-	DELAY	15	-	S	
5D	6X15	0	3	Х	_	5	Χ	_	DELAY	15	-	S	
6A <del>*</del>	6X6	300	*	Х	_	6	*	_	_	-	Х	N	
6B*	6X6	300	*	Χ	_	6	*	_	_	П	Χ	N	

\* Video detection zone.

SIGNAL FACE I.D.

All Heads L.E.D.

61,62

42,43

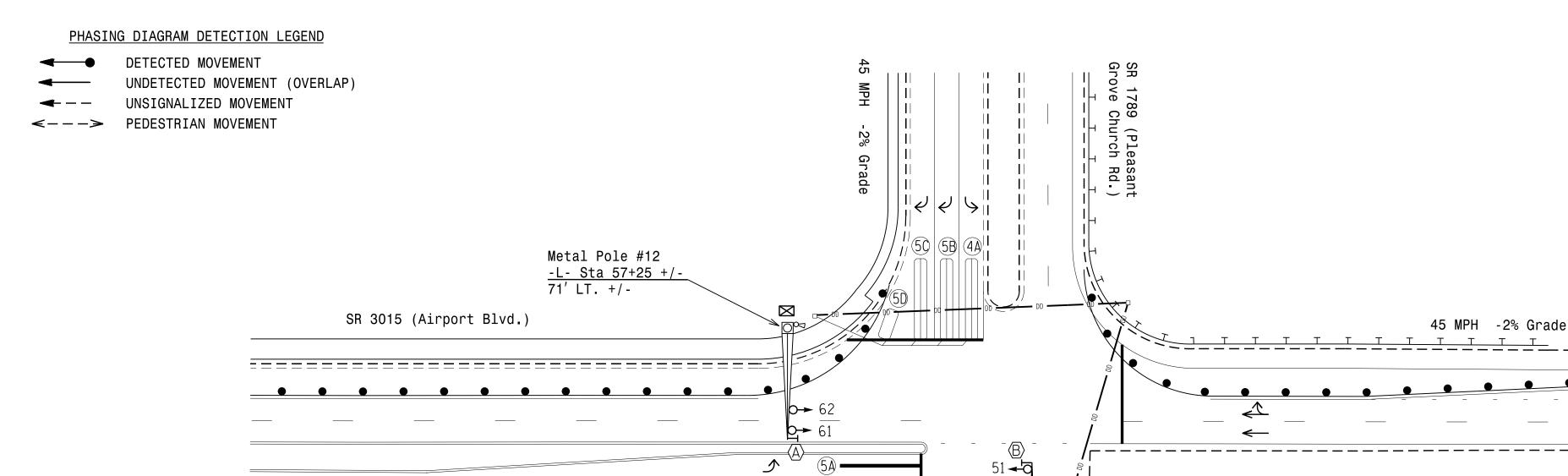


TABLE OF OPERATION

SIGNAL

FACE

21, 22

42,43

PHASE

		_		
		=		
				45 MPH
AS	TIMIN 6C/3-2070E	G CHART		
PHASE	02	04	05	Ø6
MINIMUM GREEN *	12 <b>SEC</b> .	7 SEC.	7 SEC.	12 <b>SEC</b> .
VEHICLE EXT. *	6.0 <b>SEC</b> .	2.0 <b>SEC</b> .	2.0 <b>SEC</b> .	6.0 SEC.
YELLOW CHANGE INT.	4.7 SEC.	3.0 sec.	3.0 sec.	4.7 SEC.
RED CLEARANCE	1.8 SEC.	3.3 <b>SEC</b> .	2.3 <b>SEC</b> .	1.8 SEC.
MAX. 1 *	120 <b>SEC</b> .	30 <b>SEC</b> .	15 <b>SEC</b> .	120 <b>SEC</b> .
RECALL POSITION	MIN. RECALL	NONE	NONE	MIN. RECALL
LOCK DET.	ON	OFF	OFF	ON
WALK *	- SEC.	– SEC.	– SEC.	– SEC.
PED. CLEAR	- SEC.	– SEC.	– SEC.	– SEC.
VOLUME DENSITY	ON	OFF	OFF	ON
ACTUATION B4 ADD *	– VEH.	– VEH.	– VEH.	– VEH.
SEC. PER ACTUATION *	1.5 SEC.	– SEC.	– SEC.	1.5 SEC.
MAX. INITIAL *	34 SEC.	– SEC.	– SEC.	34 <b>SEC</b> .
TIME B4 REDUCTION *	15 SEC.		– SEC.	15 <b>SEC</b> .
TIME TO REDUCE *	30 <b>SEC</b> .	– SEC.	– SEC.	30 <b>SEC</b> .
MINIMUM GAP	3.0 SEC.	– SEC.	– SEC.	
DUAL ENTRY	OFF	OFF	OFF	OFF
SIMULTANEOUS GAP	ON	ON	ON	ON

PHASING DIAGRAM

02+6

ese values may be field adjusted. Do not adjust Min Green and Extension times for ases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

**LEGEND PROPOSED** <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 Pole with Mastarm Guardrail N/A Directional Drill Out of Pavement Detector Video Detection Area Construction Zone Drums No U-Turn Sign (R3-4) "U-TURN YIELD TO RIGHT TURN" Sign (R10-16)

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

026486

May 8uh 7/24/2019

SIG. INVENTORY NO. 05-1906T2

New Installation - Temporary Design 2 (TMP Phase II)

1"=40'

SR 3015 (Airport Blvd.) SR 1789 (Pleasant Grove Church Rd.)

Division 5 Wake County March 2019 REVIEWED BY:

750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: J.A. Lohr REVISIONS

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DUAL
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