I-5700

3 Phase

Fully Actuated

(Cary Signal System)

dated January 2018 and "Standard

3. Omit phase 6 during phase 4+8 on.

to 6A and 6B, respectively.

Fiber channel #: 26.

<u>PROPOSED</u>

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O->

N/A

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N/A

N/A

dated January 2018.

Electrical Details).

Engineer.

22, and 61.

NOTES

1. Refer to "Roadway Standard Drawings NCDOT"

Specifications for Roads and Structures"

2. Do not program signal for late night flashing operation unless otherwise directed by the

4. Program controller to clear from phase 4+8 to phase 6 by progressing through phase 5 (see

5. Renumber existing signal heads numbered 43

6. Reposition existing signal heads numbered 21,

free-run operation only. Coordinated signal system timing values supersede these values.

system. Shown locations of detectors are

guidelines for optimal detector placement.

conceptual only. Refer to the manufacturer's

<u>LEGEND</u>

Traffic Signal Head

Modified Signal Head

Sign

Pedestrian Signal Head

Signal Pole with Guy Signal Pole with Sidewalk Guy

Inductive Loop Detector

Controller & Cabinet Junction Box

2-in Underground Conduit

Right of Way

Directional Arrow

Curb Ramp

Guardrail

Construction Zone Drums

Construction Zone

Out of Pavement Detector

Video Detection Area

No Right Turn Sign (R3-1)

No Left Turn Sign (R3-2)

<u>EXISTING</u>

●→

N/A

K K Z

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1 1

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7. Renumber existing loops numbered 4B and 4C,

and 44 to 61 and 62, respectively.

PHASING DIAGRAM

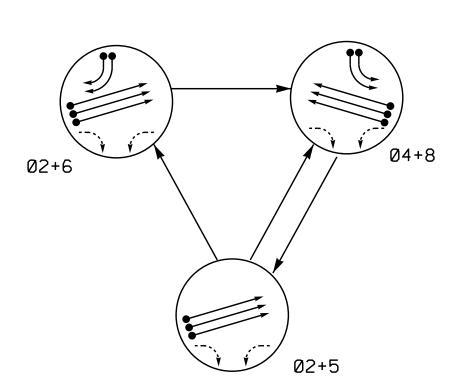
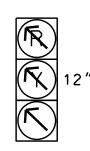
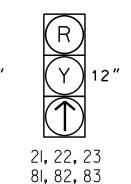


TABLE OF	0PI	ERA	TIO	N	
	PHASE				
SIGNAL FACE	Ø2+5	Ø2+6	Ø 4 + 8	FLANT	
21, 22, 23	1	1	R	R	
41, 42	R	R	X	R	
61, 62	R	∕ R		R	
81, 82, 83	R	R	1	R	

SIGNAL FACE I.D. All Heads L.E.D.





R	12"
61, 62	

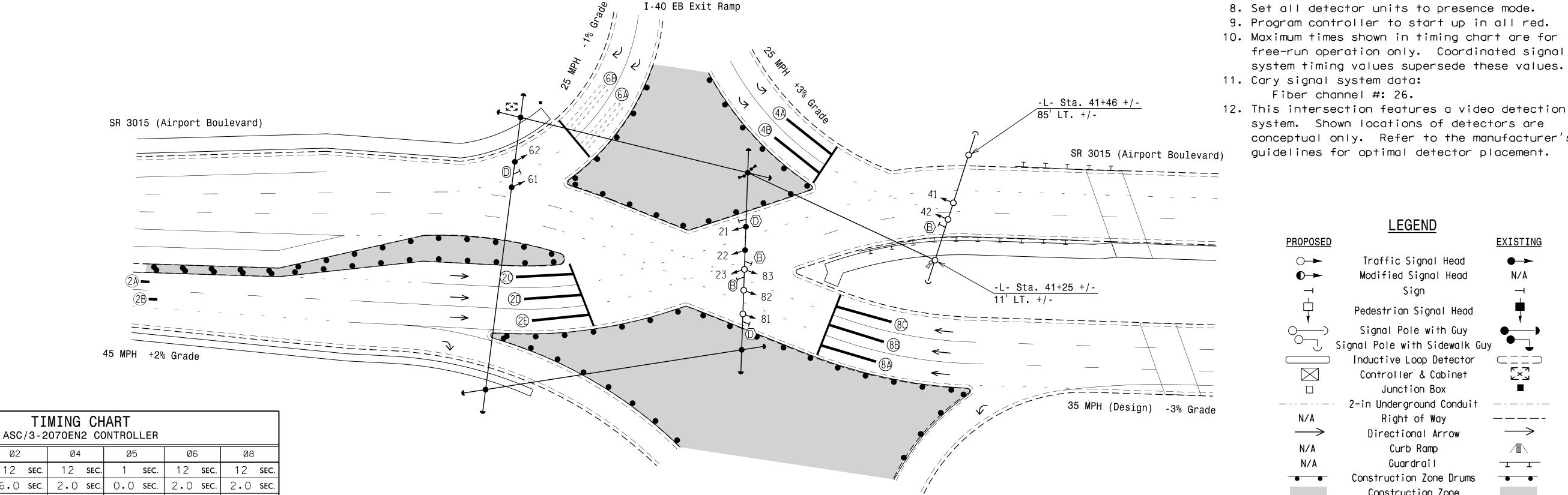
LOOP & DETECTOR INSTALLATION CHART ASC/3-2070EN2 CONTROLLER W/ TS-2 CABINET												
INDUCTIVE LOOPS					DETECTOR UNITS							
LOOP / ZONE NO.	SIZE DIST. FRO	DIST. FROM	TURNS	NEW	EXISTING	NEMA PHASE	NEW	EXISTING	TIMING		ADDED	DET.
		1	TOKINS						FEATURE	TIME	INITIAL	TYPE
2A *	6X6	0	*	Х		2	-	*	ı	ı	Х	Ν
2B *	6X6	0	*	Х		2	-	*	ı	ı	X	Ν
2C*	6X40	0	*	Х		2	*	1	ı	ı	_	S
2D*	6X40	0	*	Х		2	*	1	ı	ı	_	S
2E *	6X40	0	*	Χ		2	*	1	-	_	-	S
4A *	6X40	0	*	Х	1	4	-	*	ı	ı	-	S
4B 米	6X40	0	*	Х	1	4	-	*	ı	ı	-	S
64	6X40	0	2-4-2	-	Χ	6	-	X	DELAY	15	_	S
6B	6X40	0	2-4-2	-	Χ	6	_	Χ	DELAY	15	_	S
8A *	6X40	0	*	Х	_	8	*	-	_	_	_	S
8B *	6X40	0	*	Х	-	8	*	_	_	_	_	S
8C *	6X40	0	*	Х	-	8	*	-	-	-		S

* Video detection zone.

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT

<−−> PEDESTRIAN MOVEMENT



PHASE MINIMUM GREEN 12 **SEC**. 12 **SEC**. VEHICLE EXT. * 2.0 **SEC**. 0.0 SEC. 4.3 **SEC**. 4.1 SEC. 3.0 sec. 4.3 sec. 4.1 sec YELLOW CHANGE INT. 3.3 **SEC**. 3.2 **SEC**. 3.3 sec. 3.2 sec 1.0 **SEC**. **RED CLEARANCE** 60 **SEC**. 60 **SEC**. 60 **SEC**. 60 **SEC**. MAX. 1 * 1 SEC. **SOFT RECALL RECALL POSITION** SOFT RECALL NONE LOCK DET. OFF OFF OFF WALK * — SEC. PED. CLEAR SEC. SEC. — SEC. SEC. OFF OFF **VOLUME DENSITY** ACTUATION B4 ADD VEH. VEH SEC. — SEC SEC. PER ACTUATION 1.5 **SEC**. SEC. SEC. 34 **SEC**. MAX. INITIAL * SEC 15 **SEC**. SEC. SEC. SEC. — SEC TIME B4 REDUCTION TIME TO REDUCE 30 **SEC**. SEC. MINIMUM GAP 3.0 **SEC**. SEC. SEC. SEC. SEC DUAL ENTRY ON ON

* These values may be field adjusted. Do not adjust in 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.

ON

ON

ON

ON

ON

Signal Upgrade - Temporary Design 5 (TMP Phase IV)



SR 3015 (Airport Boulevard)

I-40 EB Ramps Wake County Division 5 Morrisville March 2019 REVIEWED BY: J.A. Lohr

750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: REVISIONS INIT. DATE

FINAL UNLESS ALL SIGNATURES COMPLETED SEAL 026486 Mart 7/24/2019

DOCUMENT NOT CONSIDERED

SIMULTANEOUS GAP

1"=40'

SIG. INVENTORY NO. 05-0947T5