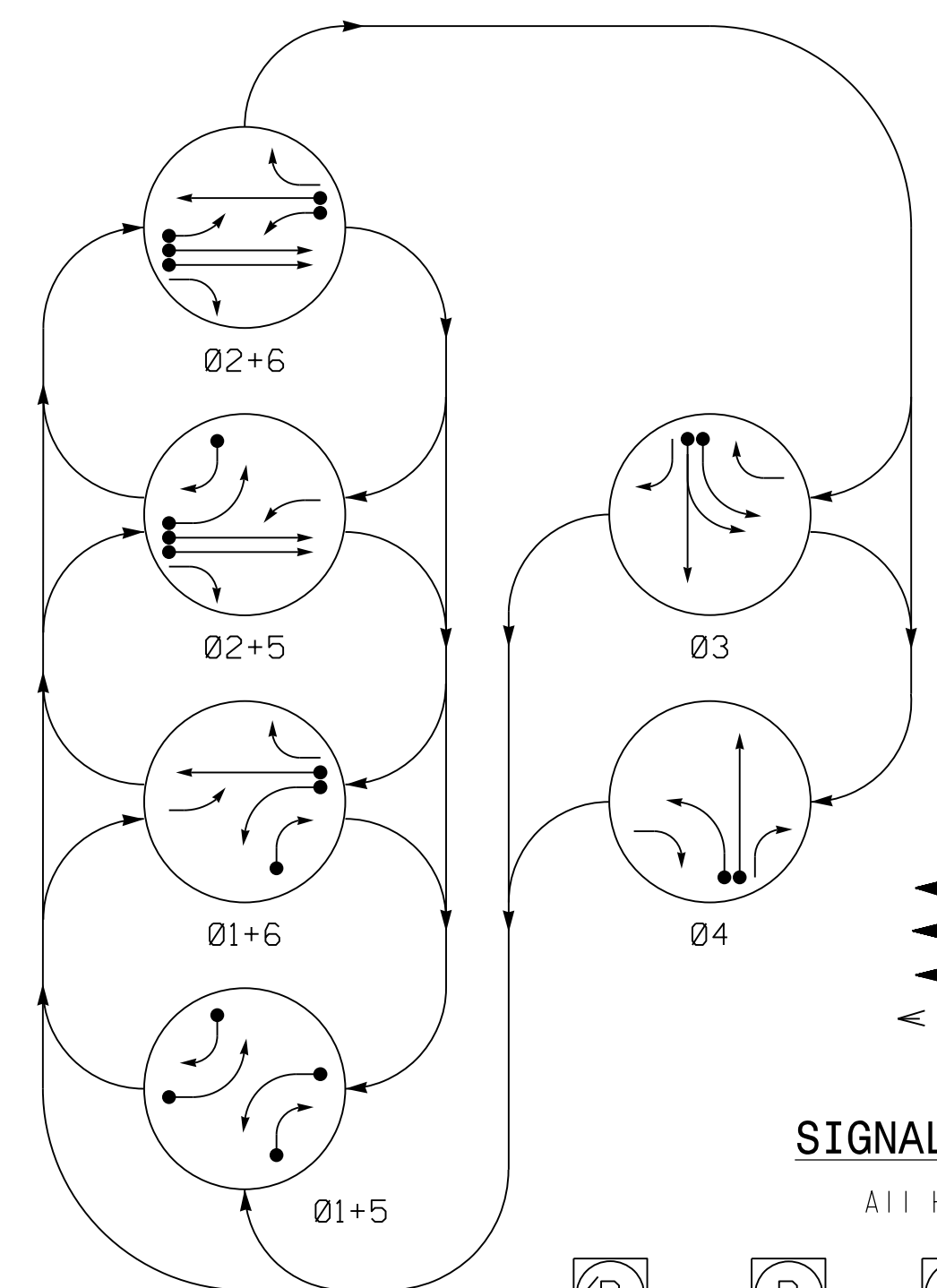
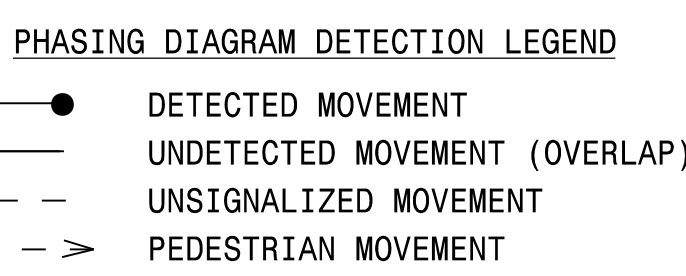


**DEFAULT PHASING DIAGRAM**

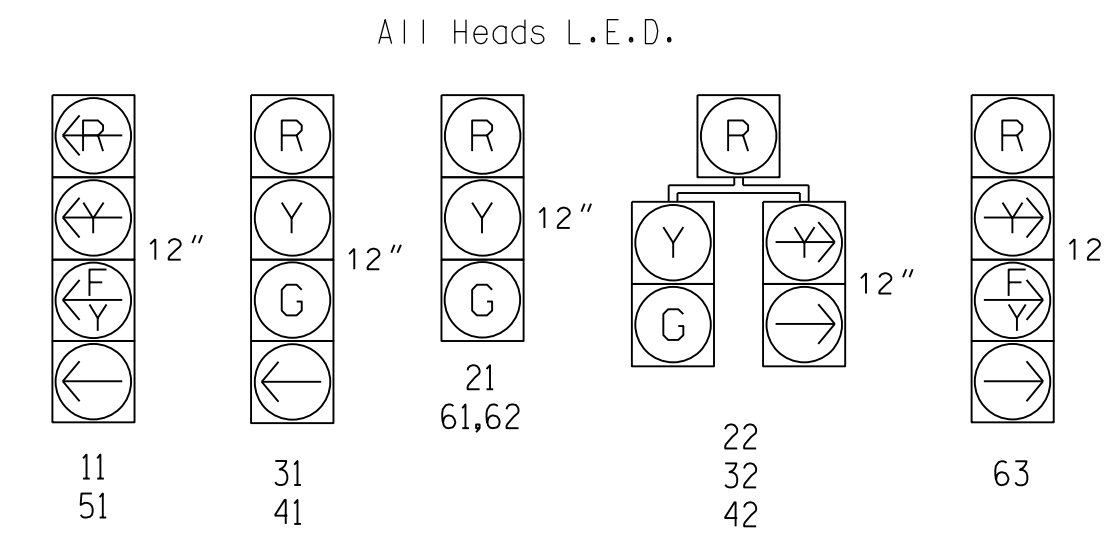


**DEFAULT PHASING TABLE OF OPERATION**

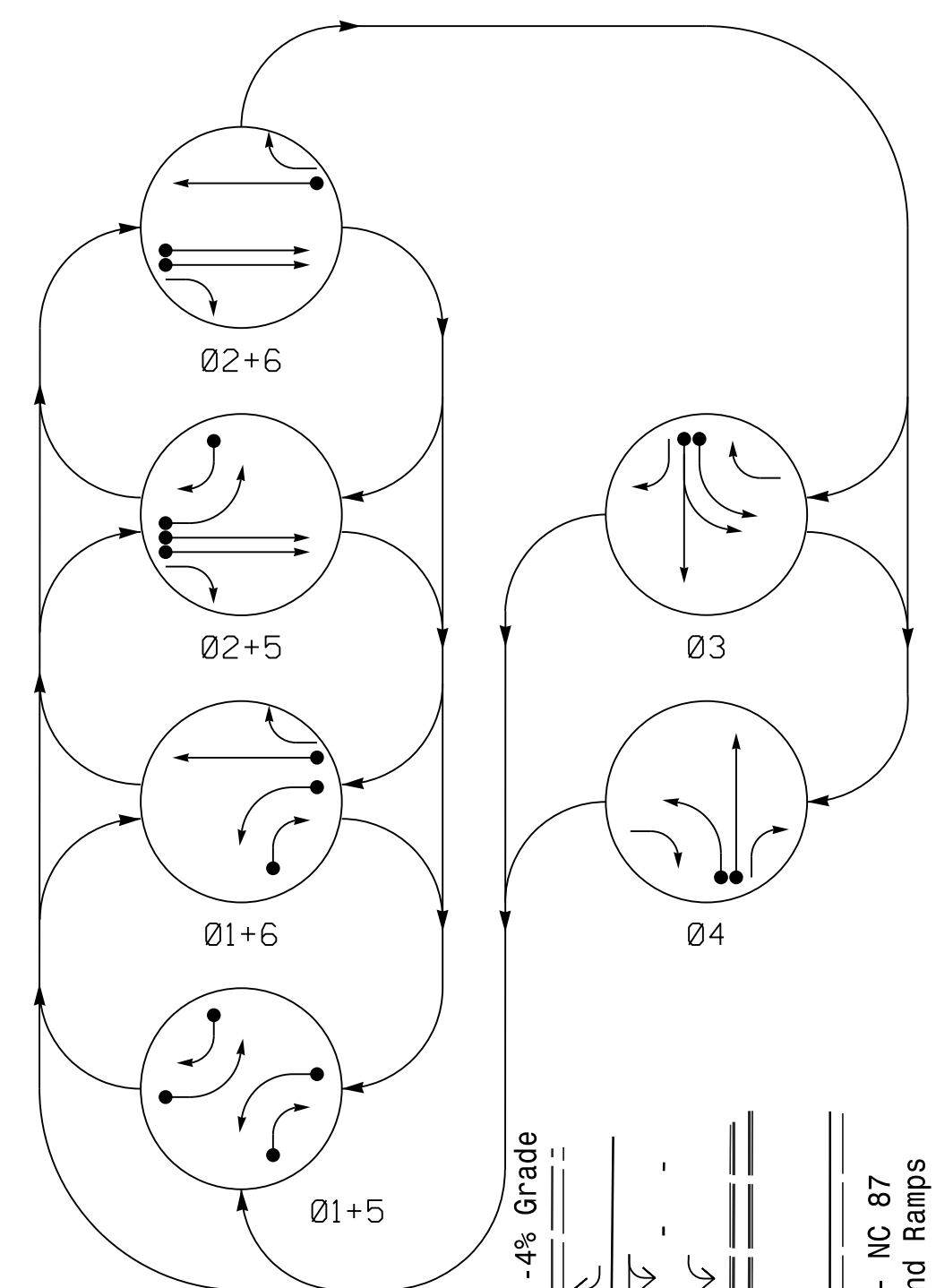
SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	03	04	
11	←	←	←	←	←	←	Y
21	R	R	G	G	R	R	Y
22	R	R	G	G	R	R	Y
31	R	R	R	R	G	R	R
32	R	R	R	R	G	R	R
41	R	R	R	R	R	G	R
42	R	R	R	R	R	G	R
51	←	←	←	←	←	←	Y
61,62	R	G	R	G	R	R	Y
63	R	←	←	←	←	←	Y



**SIGNAL FACE I.D.**



**ALTERNATE PHASING DIAGRAM**



**ALTERNATE PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	03	04	
11	←	←	←	←	←	←	Y
21	R	R	G	G	R	R	Y
22	R	R	G	G	R	R	Y
31	R	R	R	R	G	R	R
32	R	R	R	R	G	R	R
41	R	R	R	R	R	G	R
42	R	R	R	R	R	G	R
51	←	←	←	←	←	←	Y
61,62	R	G	R	G	R	R	Y
63	R	←	←	←	←	←	Y

**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

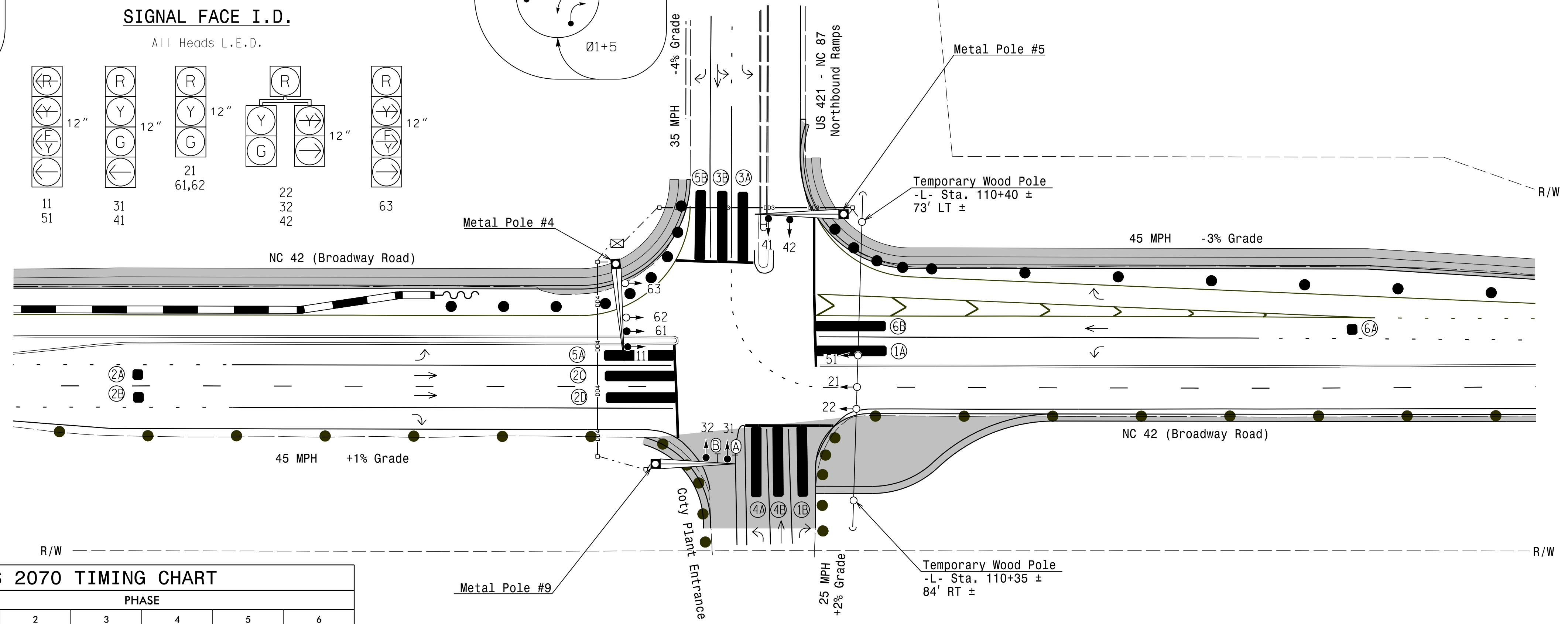
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTENSION	FULL TIME DELAY				
1A	6X40	0	*	*	1	Y	Y	-	-	★15	-	*
1B	6X40	0	*	*	#6	Y	Y	Y	-	3	-	*
2A	6X6	300	*	*	2	Y	Y	-	-	-	-	*
2B	6X6	300	*	*	2	Y	Y	-	-	-	-	*
2C	6X40	0	*	*	2	Y	Y	Y	2.0	5	-	*
2D	6X40	0	*	*	2	Y	Y	Y	2.0	5	-	*
3A	6X40	0	*	*	3	Y	Y	-	-	-	-	*
3B	6X40	0	*	*	3	Y	Y	-	-	-	-	*
4A	6X40	0	*	*	4	Y	Y	-	-	3	-	*
4B	6X40	0	*	*	4	Y	Y	-	-	-	-	*
5A	6X40	0	*	*	5	Y	Y	-	-	★15	-	*
5B	6X40	0	*	*	#2	Y	Y	Y	-	3	-	*
6A	6X6	300	*	*	6	Y	Y	-	-	15	-	*
6B	6X40	0	*	*	6	Y	Y	Y	2.0	5	-	*

\* Video Detection Area  
 ★ Reduce delay to 3 sec during Alternate Phasing Operation.  
 # Disable Phase(s) calling during Alternate Phasing Operation.

**6 Phase Fully Actuated Isolated**

**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 1 and/or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Reposition existing signal head numbered #61.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- This location utilizes a video detection system. Camera locations should be confirmed in the field by the contractor in order to provide detection of the areas indicated.



**LEGEND**

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
● → 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
N/A Right of Way	N/A
→ Directional Arrow	→ N/A
⊠ Metal Pole with Mastarm	⊠ N/A
--- Directional Drill	N/A
■ Video Detection Area	N/A
■ Construction Zone	N/A
● Drums	N/A
Ⓐ Left Arrow "ONLY" Sign (R3-5L)	Ⓐ N/A
Ⓑ Combined Thru and Left Arrow Sign (R3-6L)	Ⓑ N/A

**OASIS 2070 TIMING CHART**

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1 *	7	12	7	7	7	12
Extension 1	2.0	6.0	2.0	2.0	2.0	6.0
Max Green 1 *	20	90	30	25	20	90
Yellow Clearance	3.0	4.8	4.1	3.1	3.0	4.8
Red Clearance	2.4	1.4	2.1	2.5	2.8	1.4
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.2	-	-	-	3.2
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL
Vehicle Call Memory	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	ON	ON	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.

**Signal Upgrade - Temporary Design 1 (TMP Phase I)**

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road-Suite 300  
 Raleigh, NC 27606  
 Tel. (919) 851-6866  
 Fax. (919) 851-7024  
 www.stantec.com  
 License No. F-0672

Prepared for the Offices of:  
 Transportation Mobility and Safety Division  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 Signal Design Section  
 750 N. Greenfield Pkwy, Garner, NC 27526  
 SCALE: 0 40  
 1" = 40'

**NC 42 (Broadway Road) at US 421/NC 87 Northbound Ramps/ Coty Plant Entrance**  
 Division 8 Lee County Sanford  
 PLAN DATE: NOVEMBER 2019 REVIEWED BY: D Harris  
 PREPARED BY: B T Keffer REVIEWED BY: B L Watson

**Professional Engineer Seal**  
 REGINA M. MUNCEY  
 SEAL 43239  
 11/5/2019  
 REGINA M. MUNCEY  
 DATE  
 SIG. INVENTORY NO. 08-106511

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

\*\*\*\*\*SD:TE:\*\*\*\*\*  
 User: rmanney