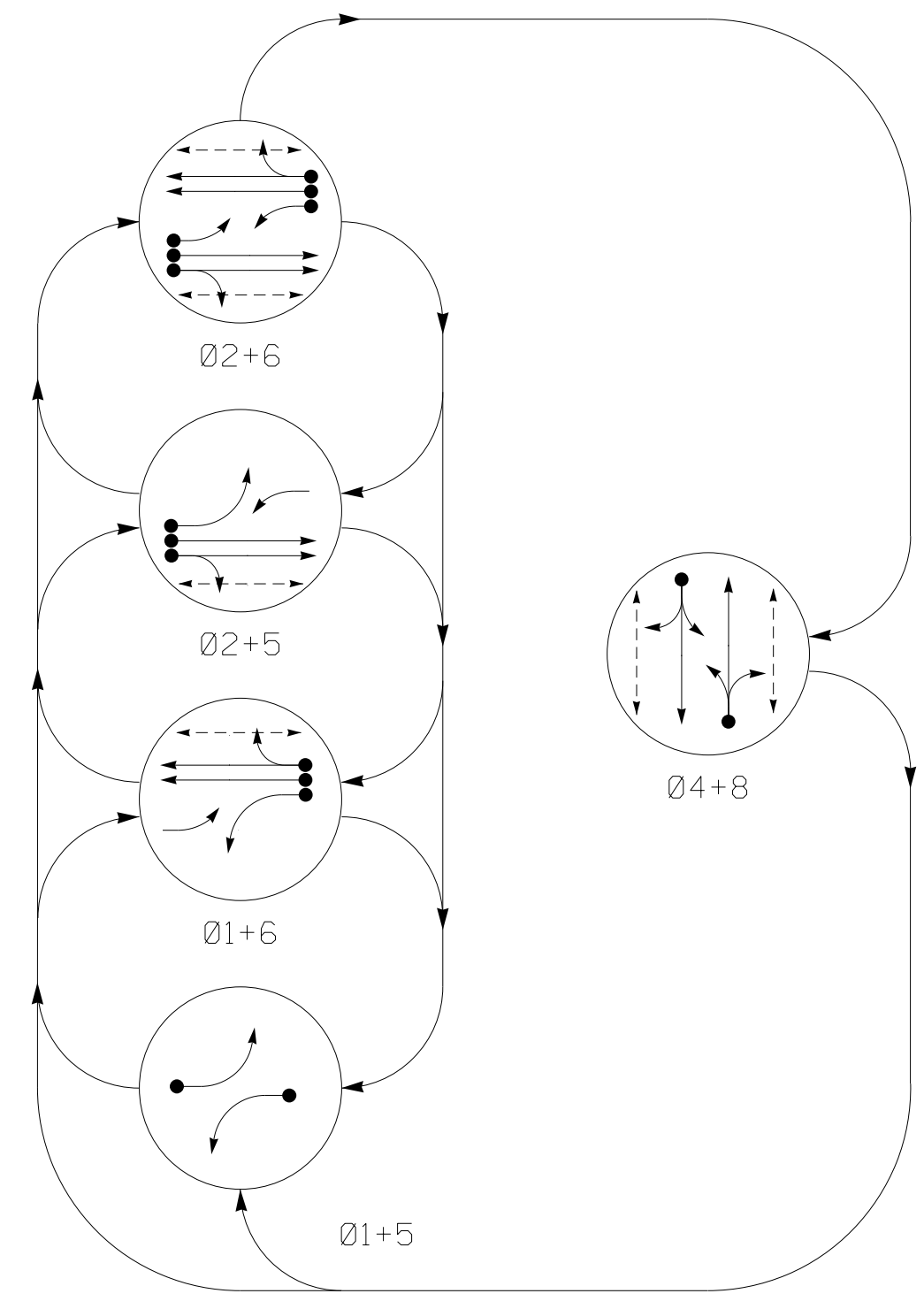


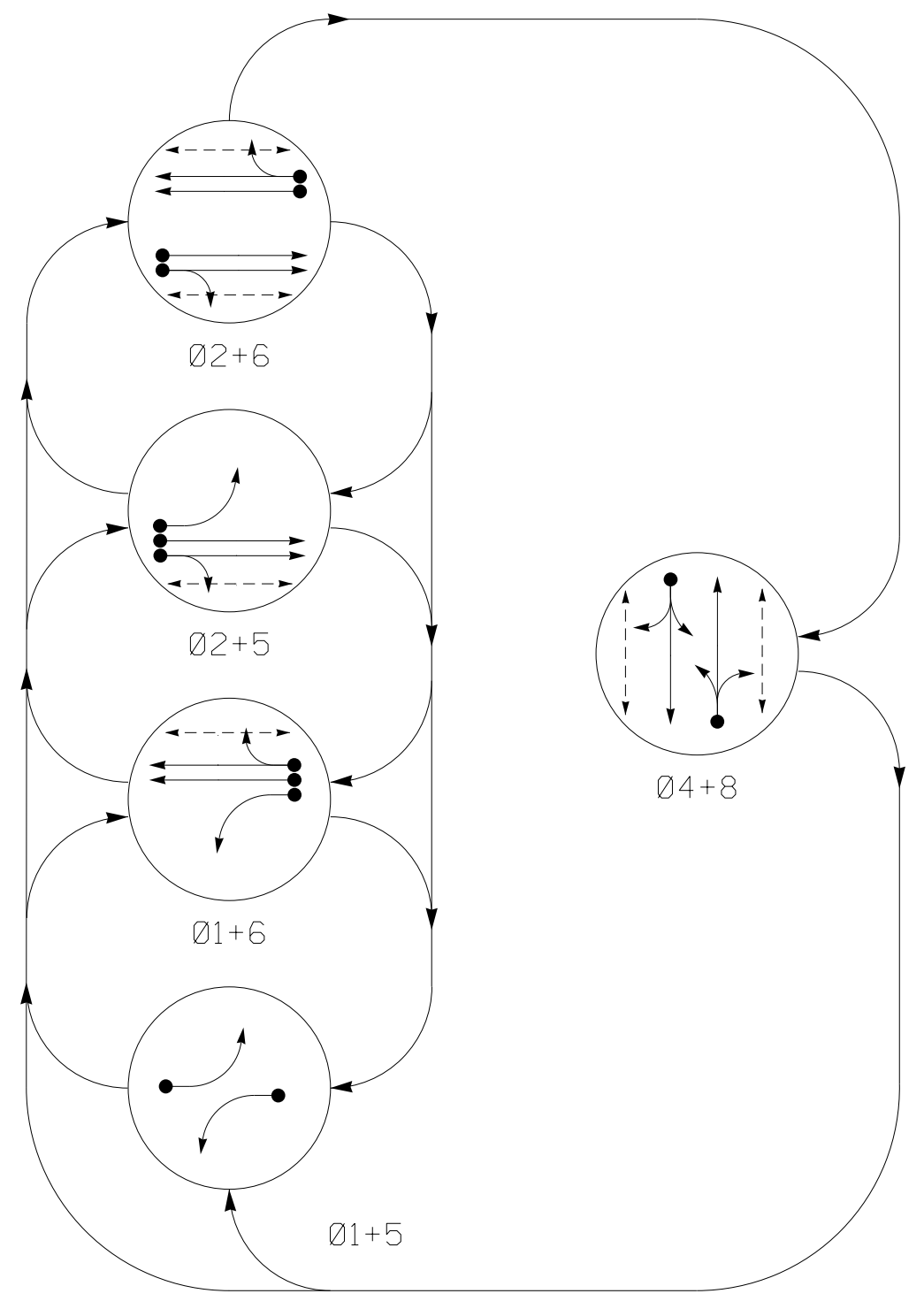
DEFAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					FLASH
	01+5	01+6	02+5	02+6	04+8	
11	←	←	←	←	←	Y
21,22	R	R	G	G	R	Y
41,42	R	R	R	R	G	R
51	←	←	←	←	←	Y
61,62	R	G	R	G	R	Y
81,82	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

ALTERNATE PHASING DIAGRAM



ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					FLASH
	01+5	01+6	02+5	02+6	04+8	
11	←	←	←	←	←	Y
21,22	R	R	G	G	R	Y
41,42	R	R	R	R	G	R
51	←	←	←	←	←	Y
61,62	R	G	R	G	R	Y
81,82	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

MAXTIME DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	
1A	6X40	0	2-4-2	X	1 6#	15.0**	-	X	-	X	-	X
2A	6X6	200	5	X	2	-	-	X	X	X	-	X
2B	6X6	200	5	X	2	-	-	X	X	X	-	X
4A	6X40	0	2-4-2	X	4	15.0	-	X	-	X	-	X
5A	6X40	0	2-4-2	X	5	15.0**	-	X	-	X	-	X
5B	6X40	0	2-4-2	X	5	-	-	X	-	X	-	X
6A	6X6	200	5	X	6	-	-	X	X	X	-	X
6B	6X6	200	5	X	6	-	-	X	X	X	-	X
8A	6X40	0	2-4-2	X	8	15.0	-	X	-	X	-	X

5 Phase Fully Actuated NC 8 (Winston Road) CLS Signal System #D09-19.Lexington

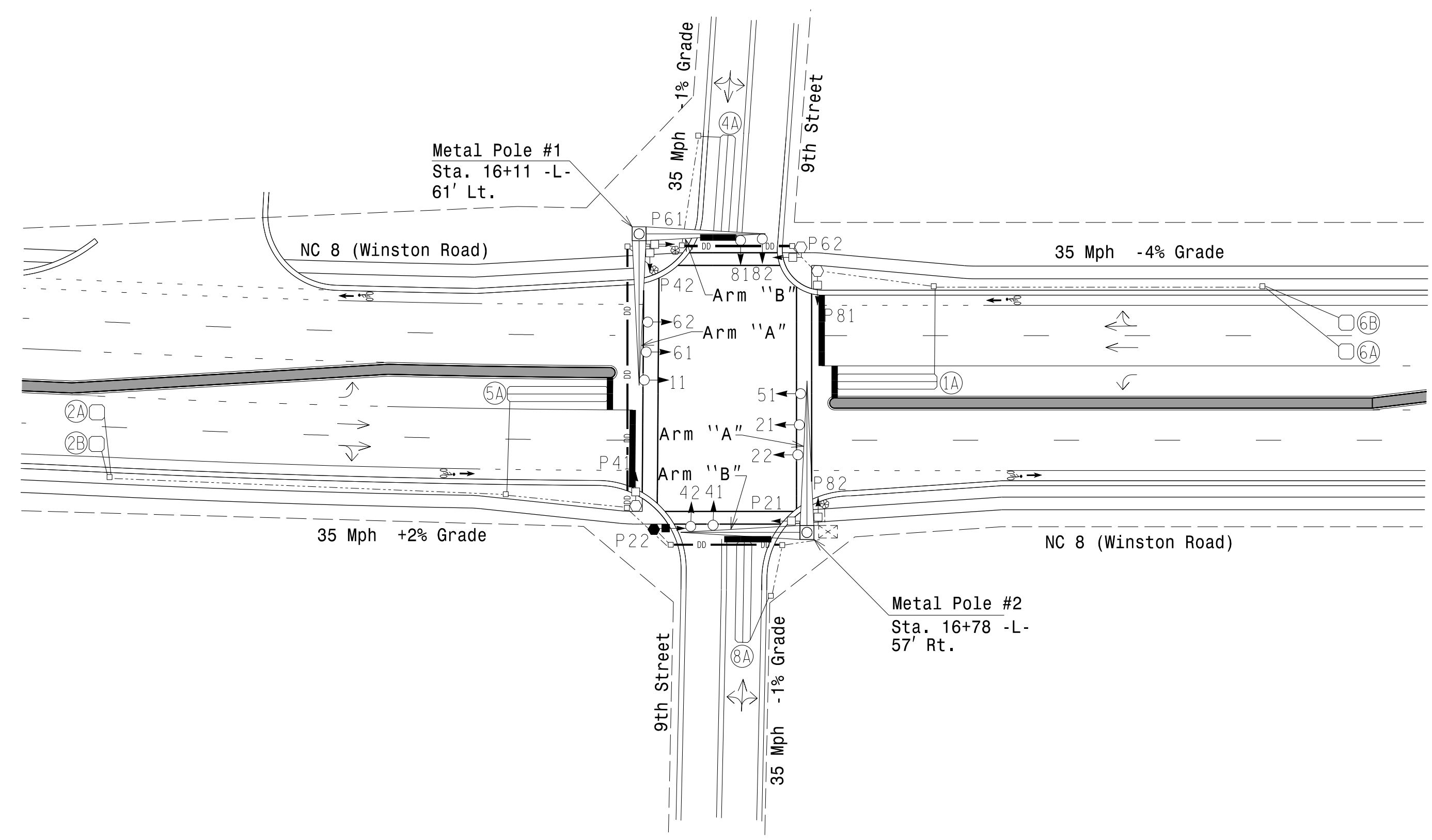
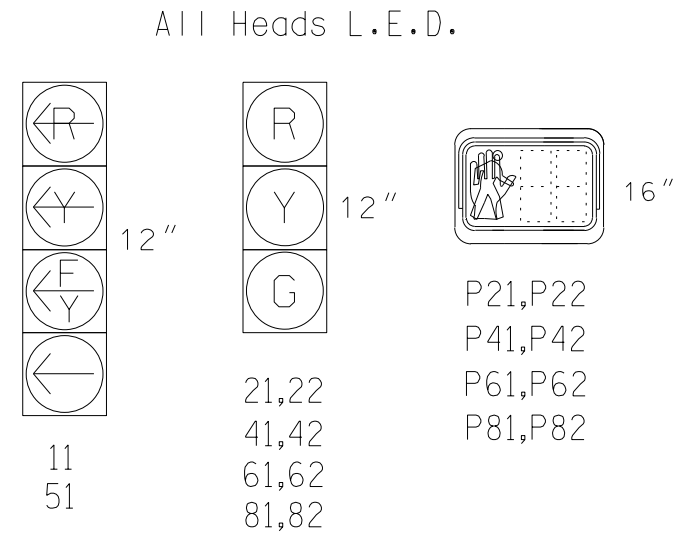
NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or 5 may be lagged.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Traffic Signal Heads and Pedestal Posts will be black color treated. The selected shade of black must be verified and approved by the Engineer and City of Lexington prior to ordering.

PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- ← UN SIGNALIZED MOVEMENT
- ← PEDESTRIAN MOVEMENT

SIGNAL FACE I.D.



MAXTIME TIMING CHART

FEATURE	PHASE						
	1	2	4	5	6	8	
Walk *	-	13	13	-	11	13	
Ped Clear *	-	10	21	-	7	21	
Min Green *	7	10	7	7	10	7	
Passage *	2.0	5.0	2.0	2.0	5.0	2.0	
Max I *	15	50	25	15	50	25	
Yellow Change	3.0	4.1	3.9	3.0	4.1	3.9	
Red Clear	2.6	2.1	2.2	2.8	2.1	2.2	
Added Initial *	-	1.5	-	-	1.5	-	
Maximum Initial *	-	24	-	-	24	-	
Time Before Reduction *	-	15	-	-	15	-	
Time To Reduce *	-	30	-	-	30	-	
Minimum Gap	-	3.0	-	-	3.0	-	
Advance Walk	-	6	6	-	4	6	
Non Lock Detector	X	-	X	X	-	X	
Vehicle Recall	-	MIN RECALL	-	-	MIN RECALL	-	
Dual Entry	-	-	X	-	-	X	

* 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 | | Existing Traffic Signal Head |
| | Modified Signal Head | | N/A |
| | Pedestrian Signal Head | | N/A |
| | Signal Pole with Guy | | Existing Signal Pole with Guy |
| | Signal Pole with Sidewalk Guy | | Existing Signal Pole with Sidewalk Guy |
| | Inductive Loop Detector | | Existing Inductive Loop Detector |
| | Controller & Cabinet | | Existing Controller & Cabinet |
| | Junction Box | | Existing Junction Box |
| | 2-in Underground Conduit | | Existing 2-in Underground Conduit |
| | Directional Drill | | N/A |
| | Right of Way | | Existing Right of Way |
| | Metal Pole with Mastarm | | Existing Metal Pole with Mastarm |
| | Directional Arrow | | Existing Directional Arrow |
| | Type I Pushbutton Post | | Existing Type I Pushbutton Post |
| | Type II Signal Pedestal | | Existing Type II Signal Pedestal |

Signal Upgrade - Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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NC 8 (Winston Road) at 9th Street

Division 9 Davidson County Lexington

PLAN DATE: May 2024 REVIEWED BY: G.G. Murr, Jr.

PREPARED BY: B.E. Wynn REVIEWED BY:

SEAL

SEAL 14543

ENGINEER

DATE: 5/11/2024

SIGNATURE: G.G. Murr, Jr.

SIG. INVENTORY NO. 09-0402

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 0 40 1"=40'