

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 1 and/or phase 5 may be lagged.
4. Reposition existing signal heads numbered 11, 21, 22, 41, 42, 51, 61, 62, and 63.
5. Reposition existing signs labeled "B".
6. Set all detector units to presence mode.
7. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

Figure 1 shows a directed graph with five nodes, each representing a partition. The nodes are arranged in two columns. The left column contains four nodes labeled from top to bottom: $02+6$, $02+5$, $01+6$, and $01+5$. The right column contains one node labeled $04+8$. Directed edges connect the nodes: $02+6 \rightarrow 02+5$, $02+5 \rightarrow 01+6$, $01+6 \rightarrow 01+5$, and $01+5 \rightarrow 04+8$. There are also curved edges from $02+6$ to $04+8$ and from $01+5$ to $04+8$. Each node contains a diagram of a partition with horizontal lines and arrows indicating the flow of the partition.

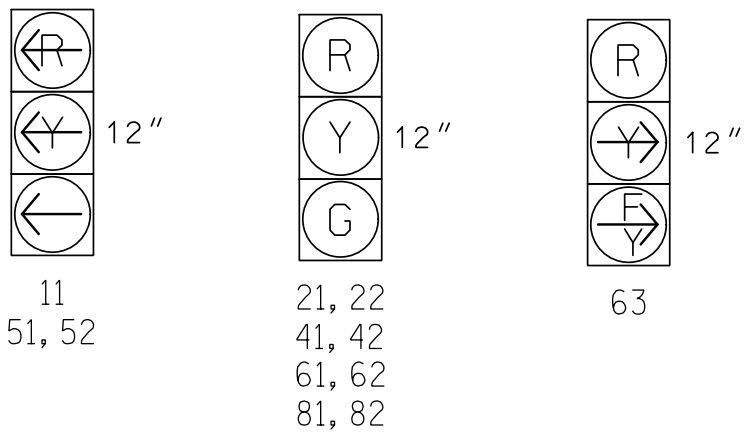
SIGNAL FACE	PHASE					
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 4 + 8	F L A S H
11	←	←	←	←	←	←
21, 22	R	R	G	G	R	R
41, 42	R	R	R	R	G	R
51, 52	←	←	←	←	←	←
61, 62	R	G	R	G	R	R
63	R	↯	R	↯	R	R
81, 82	R	R	R	R	G	R

FUNCTION	SENSOR 1 – (2A)	SENSOR 2 – (6A)
Channel	1	2
Phase	2	6
Direction of Travel	EB	WB
Detection Zone (ft)	500 – 100	500 –100
Enable Speed	Y	Y
Speed Range (mph)	35 – 100	35 – 100
Enable Estimated Time of Arrival	Y	Y
Estimated Time of Arrival [sec]	2.5 – 6.5	2.5 – 6.5

DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	INITIAL ADDED	CALL	GREEN DURING	NEW CARD
1A	6X40	0	*	*	1	-	-	X	-	X	-	*
4A	6X40	0	*	*	4	-	-	X	-	X	-	*
5A	6X40	0	*	*	5	-	-	X	-	X	-	*
5B	6X40	0	*	*	5	-	-	X	-	X	-	*
8A	6X40	0	*	*	8	10	-	X	-	X	-	*

* Multi-zone Microwave Detection Zone

All Heads L.E.D.



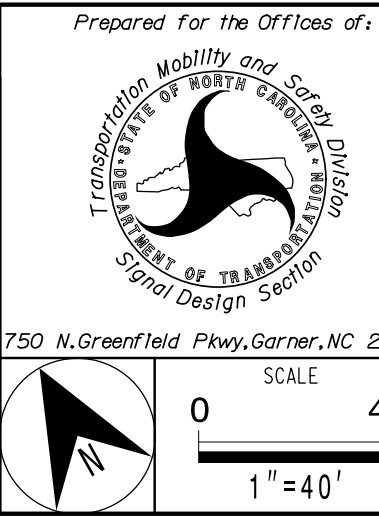
	DETECTED MOVEMENT
	UNDETECTED MOVEMENT (OVERLAP)
	UNSIGNALIZED MOVEMENT
	PEDESTRIAN MOVEMENT

MAXTIME TIMING CHART						
FEATURE	PHASE					
	1	2	4	5	6	8
Walk *	–	–	–	–	–	–
Ped Clear *	–	–	–	–	–	–
Min Green	7	12	7	7	12	7
Passage *	2.0	2.0	2.0	2.0	2.0	2.0
Max 1 *	25	90	30	25	90	30
Yellow Change	3.0	4.6	3.9	3.0	4.6	3.8
Red Clear	2.9	1.0	2.3	3.1	1.8	2.4
Added Initial *	–	–	–	–	–	–
Maximum Initial *	–	–	–	–	–	–
Time Before Reduction *	–	–	–	–	–	–
Time To Reduce *	–	–	–	–	–	–
Minimum Gap	–	–	–	–	–	–
Advance Walk	–	–	–	–	–	–
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.

PROPOSED	EXISTING
	N/A
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N/A	N/A

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DATE
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