

	DETECTED MOVEMENT
	UNDETECTED MOVEMENT (OVERLAP)
	UNSIGNALIZED MOVEMENT
	PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE		
	2 + 6	4 + 8	F + 10
21	$\frac{F}{G}$	$\frac{R}{G}$	$\frac{R}{G}$
22,23	G	R	R
41,42	R	G	R
61	$\frac{F}{G}$	$\frac{R}{G}$	$\frac{R}{G}$
62,63	G	R	R
81,82,83	R	G	R
P41,P42	DW	W	DRK

DETECTOR					PROGRAMMING								
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	SYSTEM LOOP	NEW CARD
2A	*	70	*	-	2	-	-	X	-	X	-	-	*
2B	*	0	*	-	2	3.0	-	X	-	X	-	-	*
4A	*	0	*	-	4	10.0	-	X	-	X	-	-	*
6A	*	70	*	-	6	-	-	X	-	X	-	-	*
6B	*	0	*	-	6	3.0	-	X	-	X	-	-	*
8A	*	0	*	-	8	10.0	-	X	-	X	-	-	*

* Multizone Microwave Detection

2 Phase
Fully Actuated
Signal System #: D13-24_Rutherfordton

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.
4. Install new 2070LX controller in existing cabinet.
5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
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.
9. See HL-0065 TMP Phase I for pavement markings.
10. Relocate existing street name signs.

MAXTIME TIMING CHART				
FEATURE	PHASE			
	2	4	6	8
Walk *	—	12	—	—
Ped Clear	—	11	—	—
Min Green *	10	7	10	7
Passage *	3.0	2.0	3.0	2.0
Max I *	30	15	30	15
Yellow Change	4.3	3.1	4.3	3.1
Red Clear	1.4	3.4	1.4	3.4
Red Revert	2.0	2.0	2.0	2.0
Added Initial *	—	—	—	—
Maximum Initial *	—	—	—	—
Time Before Reduction *	—	—	—	—
Time To Reduce *	—	—	—	—
Minimum Gap	—	—	—	—
Advance Walk	—	5	—	—
Non Lock Detector	—	X	—	X
Vehicle Recall	MIN RECALL	—	MIN RECALL	—
Dual Entry	—	X	—	X

* These values may be field adjusted. Do not adjust Min Green and Passage 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
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Non-Intrusive Detection Zone	
	Controller & Cabinet	
	Junction Box	
	Type I Pushbutton Post	
	Type II Signal Pedestal	
	Directional Drill	
	24in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Curb Construction	
N/A	Curb Ramp	
N/A	Fence	
	Street Name Sign	

Signal Upgrade
Temporary Design 1
(Construction Phase 1)

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

SecuSigned by:

Natasha R. Simmons 5/12/2026
SIGNATURE DATE

SIG. INVENTORY NO.

HNTB

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Prepared for:

TRANSPORTATION MOBILITY AND SAFETY DIVISION
DEPARTMENT OF TRANSPORTATION
SIGNAL DESIGN SECTION

750 N. Greenfield Pkwy. Garner, N.C. 27529

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11/23/2011

1"=20'

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