

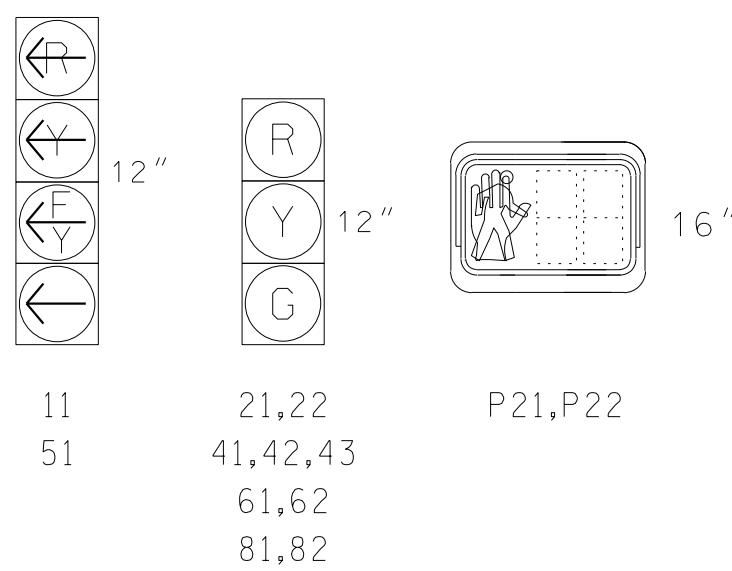
The diagram illustrates a network of five nodes, each represented by a circle containing a specific configuration of black dots and white arrows. The nodes are labeled with mathematical expressions: $2+6$, $2+5$, $1+6$, $1+5$, and $4+8$.

- Node $2+6$:** Contains 2 black dots on the left and 6 white arrows pointing in various directions (up, down, left, right, and diagonally).
- Node $2+5$:** Contains 2 black dots on the left and 5 white arrows pointing in various directions.
- Node $1+6$:** Contains 1 black dot on the left and 6 white arrows pointing in various directions.
- Node $1+5$:** Contains 1 black dot on the left and 5 white arrows pointing in various directions.
- Node $4+8$:** Contains 4 black dots (2 on the left, 2 on the right) and 8 white arrows pointing in various directions.

Arrows connect the nodes in a complex, non-linear fashion, including a large loop on the right side that connects the $2+6$ node to the $4+8$ node and back.

SIGNAL FACE	PHASE					
	1 + 5	1 + 6	2 + 5	2 + 6	4 + 8	F A S H
11	←	←	$\frac{F}{Y}$	$\frac{F}{Y}$	←	←
21,22	R	R	G	G	R	R
41,42,43	R	R	R	R	G	R
51	←	$\frac{F}{Y}$	←	$\frac{F}{Y}$	←	←
61,62	R	G	R	G	R	R
81,82	R	R	R	R	G	R
P21, P22	DW	DW	W	W	DW	DRK

All Heads L.E.D.



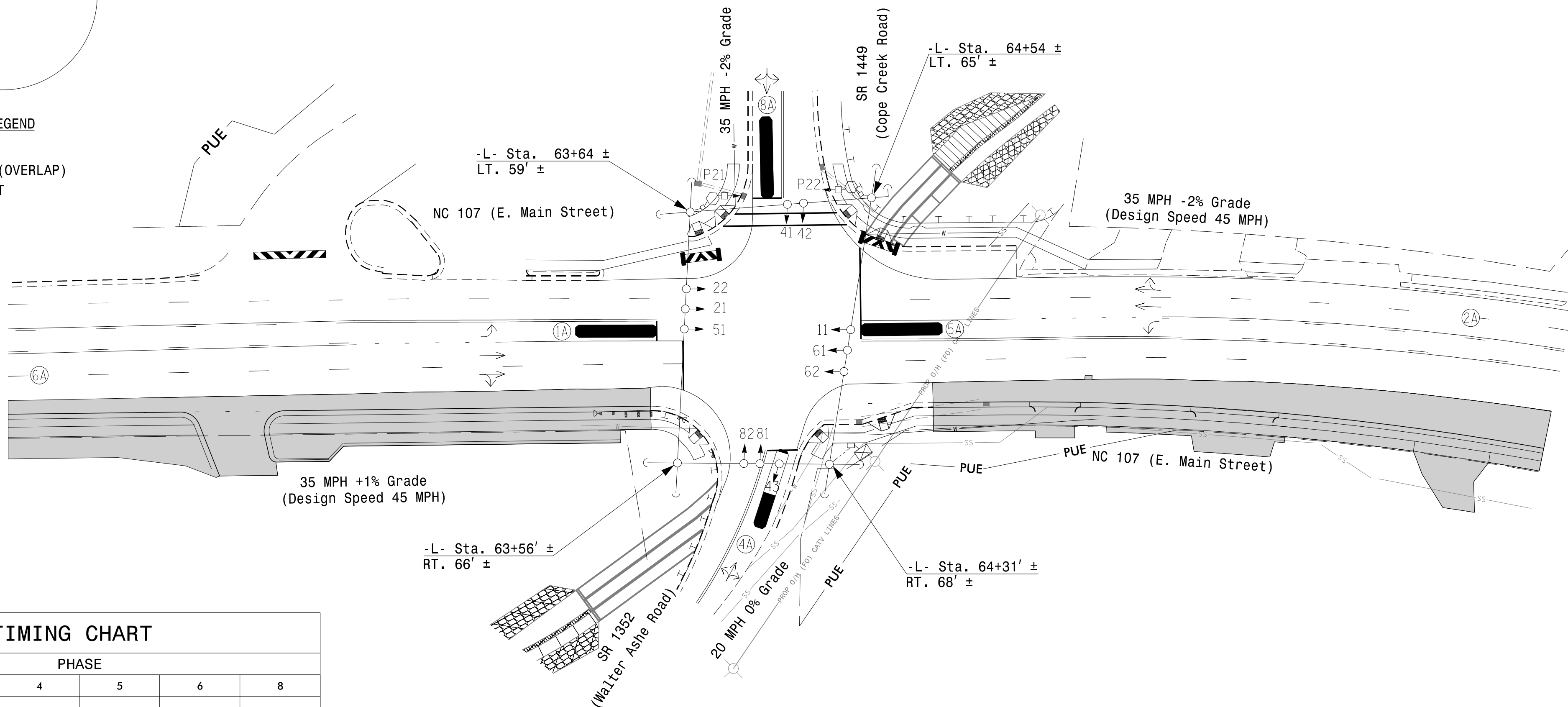
DETECTOR				PROGRAMMING								
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A	*	0	*	X	1 6	15.0 -	-	X	-	X	-	*
4A	*	0	*	X	4	5.0	-	X	-	X	-	*
5A	*	0	*	X	5 2	15.0 -	-	X	-	X	-	*
8A	*	0	*	X	8	5.0	-	X	-	X	-	*

*Multi-Zone Microwave Detection Zone

NOTES

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. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
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.

	DETECTED MOVEMENT
	UNDETECTED MOVEMENT (OVERLAP)
	UNSIGNALIZED MOVEMENT
	PEDESTRIAN MOVEMENT

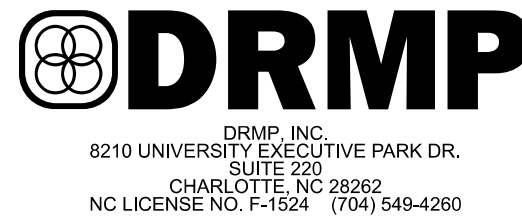


FEATURE	PHASE					
	1	2	4	5	6	8
Walk *	–	14	–	–	–	–
Ped Clear	–	14	–	–	–	–
Min Green *	7	12	7	7	12	7
Passage *	3.0	2.0	2.0	2.0	2.0	2.0
Max 1 *	15	70	20	15	70	20
Yellow Change	3.0	4.7	4.0	3.0	4.7	4.0
Red Clear	3.2	2.4	3.5	2.6	2.4	3.5
Added Initial *	–	–	–	–	–	–
Maximum Initial *	–	–	–	–	–	–
Time Before Reduction *	–	–	–	–	–	–
Time To Reduce *	–	–	–	–	–	–
Minimum Gap	–	–	–	–	–	–
Advance Walk	–	7	–	–	–	–
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.

	(2A)	(6A)
FUNCTION	Sensor 1	Sensor 2
Channel	1	1
Phase	2	6
Direction of Travel	WB	EB
Type	Priority	Priority
Level	2	2
Detection Zone (ft)	< 750	< 750
Range (ft)	600-100	600-100
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

Plans Prepared By:



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Prepared for: TRANSPORTATION MOBILITY AND SAFETY DIVISION DEPARTMENT OF TRANSPORTATION Signal Design Section	NC 107 (E. Main Street) at SR 1352 (Walter Ashe Road) / SR 1449 (Cope Creek Road)	SEAL
	Division 14 Jackson County Sylva	
	PLAN DATE: August 2025	REVIEWED BY: ZM Esposito
	PREPARED BY: KA Jones	REVIEWED BY: BN Groome
SCALE 0 40 1" = 40'	REVISIONS INIT. DATE	
Signed by: <u>Brittany Groome</u> 8/26/2025 PROFESSIONAL ENGINEER DATE		
SIG. INVENTORY NO. 14-069472		

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

Signed by: Brittany Groome 8/26/2012
TE09340E1094484... DATE
SIG. INVENTORY NO. 14-0694