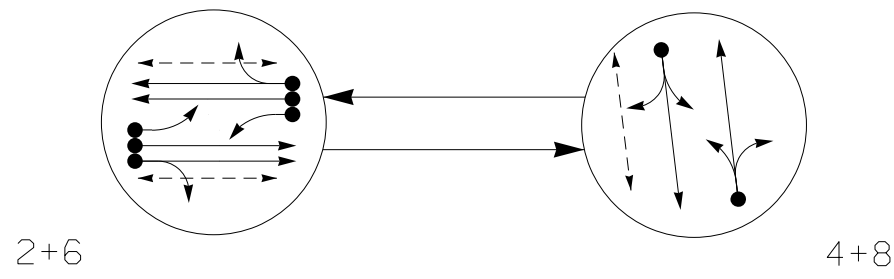


PHASING DIAGRAM



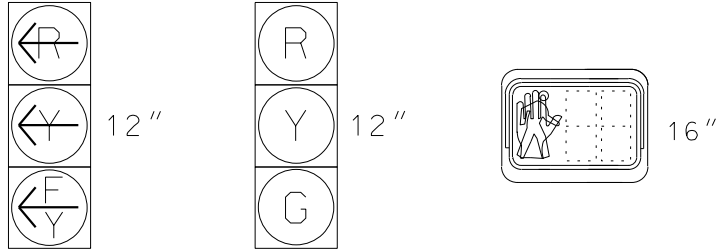
PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE		
	2+6	4+8	FLASH
21	Y	R	R
22,23	G	R	R
41,42	R	G	R
61	Y	R	R
62,63	G	R	R
81,82	R	G	R
P21, P22	W	DW	DRK
P61, P62	W	DW	DRK
P81, P82	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



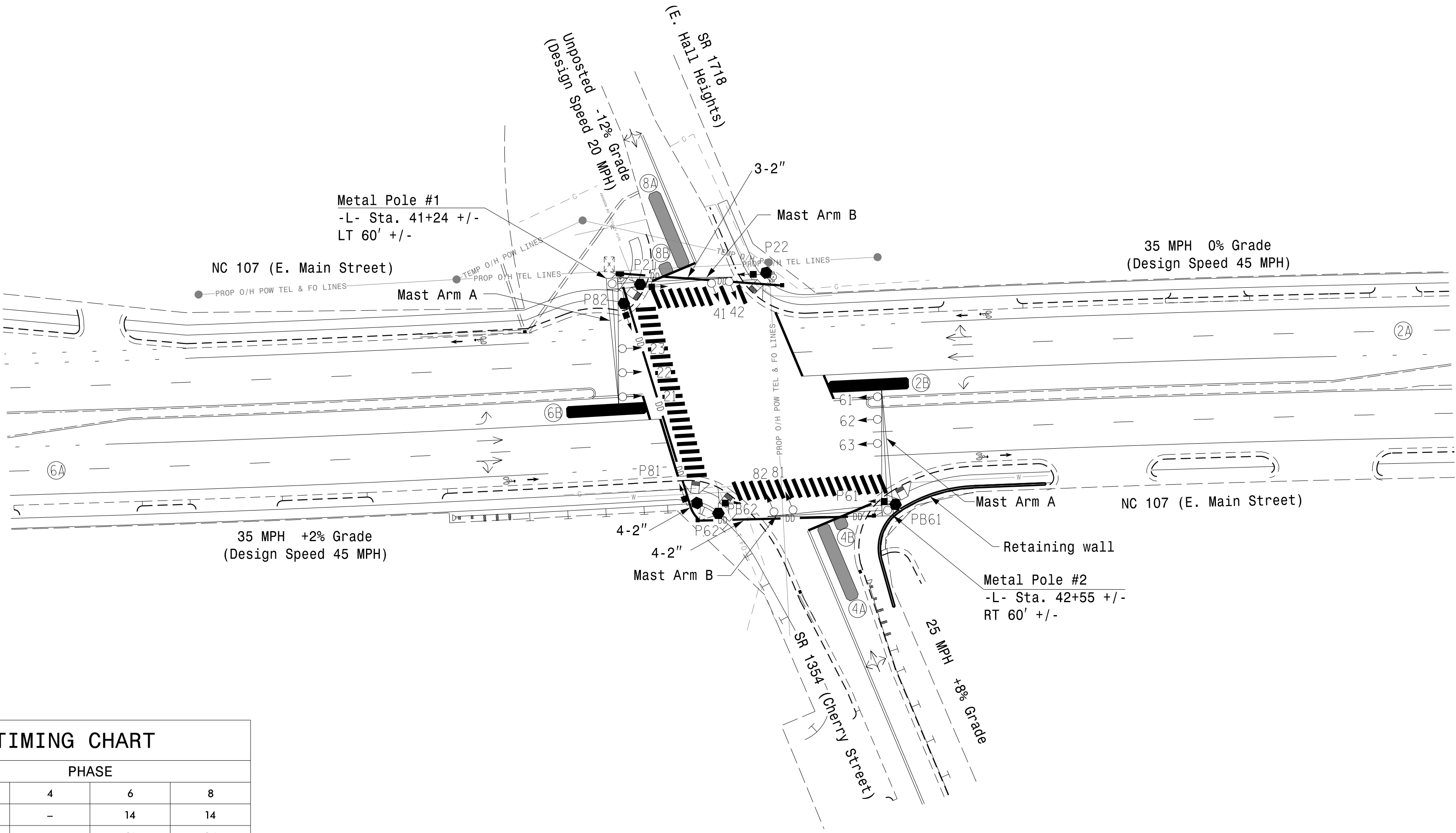
MAXTIME DETECTOR INSTALLATION CHART												
DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	URNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2B	*	0	*	X	2	3.0	-	X	-	X	-	*
4A	*	0	*	-	4	5.0	-	X	-	X	-	*
4B	*	0	*	-	4	5.0	-	X	-	X	-	*
6B	*	0	*	X	6	3.0	-	X	-	X	-	*
8A	*	0	*	-	8	5.0	-	X	-	X	-	*
8B	*	0	*	-	8	5.0	-	X	-	X	-	*

*Multi-Zone Microwave Detection Zone

2 Phase
Fully Actuated
(NC 107 D14-14)

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.
- 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.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



MAXTIME TIMING CHART				
FEATURE	PHASE			
	2	4	6	8
Walk *	14	-	14	14
Ped Clear	13	-	21	24
Min Green *	12	7	12	7
Passage *	2.0	2.0	2.0	2.0
Max 1 *	60	40	60	40
Yellow Change	4.5	3.5	4.5	3.5
Red Clear	1.6	3.5	1.6	3.5
Added Initial *	-	-	-	-
Maximum Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Advance Walk	7	-	7	7
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 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.

Microwave Detection				
	(2A)		(6A)	
FUNCTION	Sensor 1		Sensor 2	
Channel	1		1	
Phase	2		6	
Direction of Travel	WB		EB	
Type	Priority		Priority	
Level	2	QUEUE	2	QUEUE
Detection Zone (ft)	<750	—	<750	—
Range (ft)	600–100	150–100	600–100	150–100
Enable Speed	Y	Y	Y	Y
Speed Range (mph)	35–100	1–35	35–100	1–35
Enable Estimated Time of Arrival	Y	N	Y	N
Estimated Time of Arrival (sec)	2.5–6.5	—	2.5–6.5	—

PROPOSED	LEGEND	EXISTING
	Traffic Signal Head	
	Modified Signal Head	
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	Oversized Junction Box	
	2-in Underground Conduit	
	Right of Way	
	Directional Arrow	
	Wheelchair Ramp	
	Directional Drill	
	Metal Pole with Mastarm	
	Type I Pushbutton Post	
	Type II Signal Pedestal	
	Non-Intrusive Detection Zone	
	Guardrail	
	Gas Line	
	U/G Water Line	
	Drainage Pipe	
	U/G Fiber	
	O/H Pwr. & Util. Lines	
	Temporary O/H Power Lines	

Signal Upgrade - Final Design



Prepared for the Offices of: Transportation Mobility and Safety DEPARTMENT OF TRANSPORTATION STATE OF NORTH CAROLINA Signal Design Section		NC 107 (E. Main Street) at SR 1354 (Cherry Street)/ SR 1718 (E. Hall Heights) Division 14 Jackson County Sylva		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
PLAN DATE: August 2025		REVIEWED BY: ZM Esposito		SEAL 052936 ENGINEER BRITANNY N. GROOM	
PREPARED BY: DJ White		REVIEWED BY: BN Groome		Signed by: Brittany N. Groome DATE: 8/26/2025	
REVISIONS		INIT.		DATE	
0		1		2	
SCALE		1"=40'		SIC. INVENTORY NO.	
750 N. Greenfield Pkwy, Garner, NC 27529		DRMP, INC. 8210 UNIVERSITY EXECUTIVE PARK DR. SUITE 200 CHARLOTTE, NC 28262 NC LICENSE NO. F-1524 (704) 549-4260		14-1333	