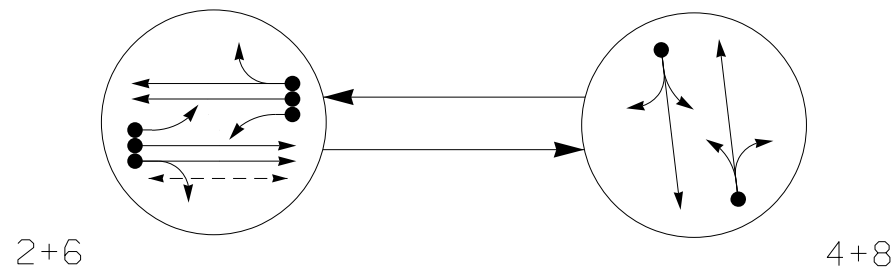


PHASING DIAGRAM



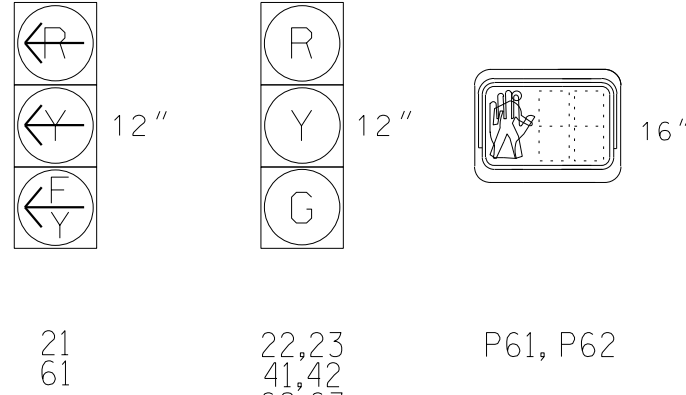
PHASING DIAGRAM DETECTION LEGEND

- 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
P61, P62	W	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



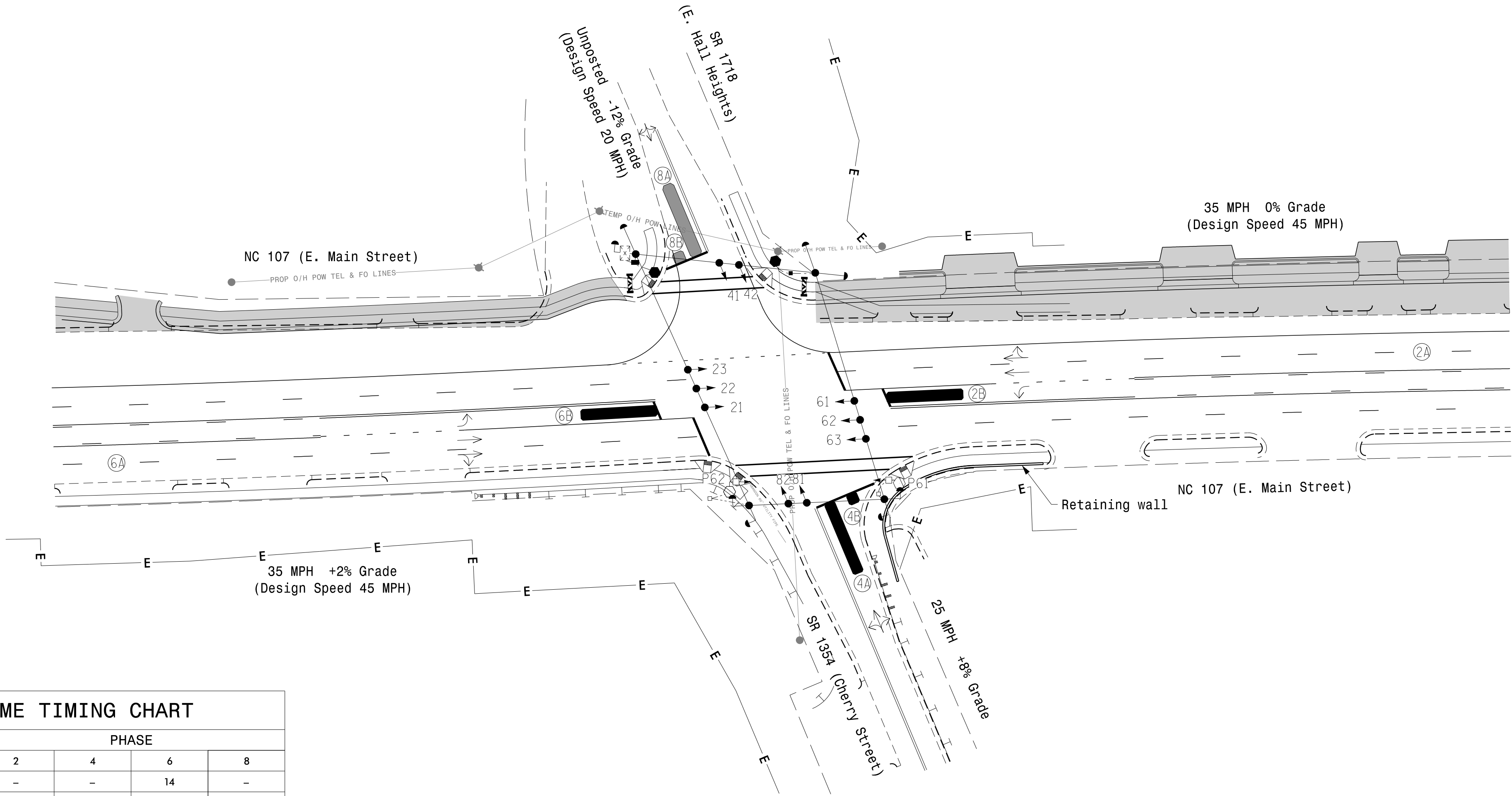
MAXTIME DETECTOR INSTALLATION CHART												
DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURN	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2B	*	0	*	X	2	3.0	-	X	-	X	-	*
4A	*	0	*	X	4	5.0	-	X	-	X	-	*
4B	*	0	*	X	4	5.0	-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

*Multi-Zone Microwave Detection Zone

2 Phase
Fully Actuated
(Time Based Coordination)

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. Reposition existing signal heads numbered 21, 22, 23, 61, 62 and 63.
4. Disconnect and bag existing pedestrian heads and pushbuttons P21 and P22.
5. Set all detector units to presence mode.
6. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
7. 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	-
Ped Clear	-	-	21	-
Min Green *	12	7	12	7
Passage *	2.0	2.0	2.0	2.0
Max 1 *	60	20	60	20
Yellow Change	4.5	3.5	4.5	3.5
Red Clear	1.4	3.5	1.4	3.5
Added Initial *	-	-	-	-
Maximum Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Advance Walk	-	-	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	
	Type II Signal Pedestal	
	Wheelchair Ramp	
	Non-Intrusive Detection Zone	
	Guardrail	
	Construction Zone	
	Temp. Construction Easement	
	Utility Pole	
	Gas Line	
	U/G Water Line	
	Drainage Pipe	
	U/G Fiber	
	O/H Pwr. & Util. Lines	
	Temporary O/H Power Lines	
	Abandon X" Utility Pipe	
	Barricade	

Signal Upgrade
Temporary Design 2 - TMP Ph2, S1

Plans Prepared By:

DRMP

DRMP, INC.
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SUITE 200
CHARLOTTE, NC 28262
NC LICENSE NO. F-1524 (704) 549-4260

	NC 107 (E. Main Street) at SR 1354 (Cherry Street)/ SR 1718 (E. Hall Heights)	SEAL
	Division 14 Jackson County Sylva PLAN DATE: August 2025 REVIEWED BY: ZM Esposito PREPARED BY: DJ White REVIEWED BY: BN Groome	SEAL 052936 ENGINEER BRITANNY N. GROOME
REVISIONS	INIT. DATE	DATE
1		8/26/2025
SIC. INVENTORY NO. 14-1333T2		