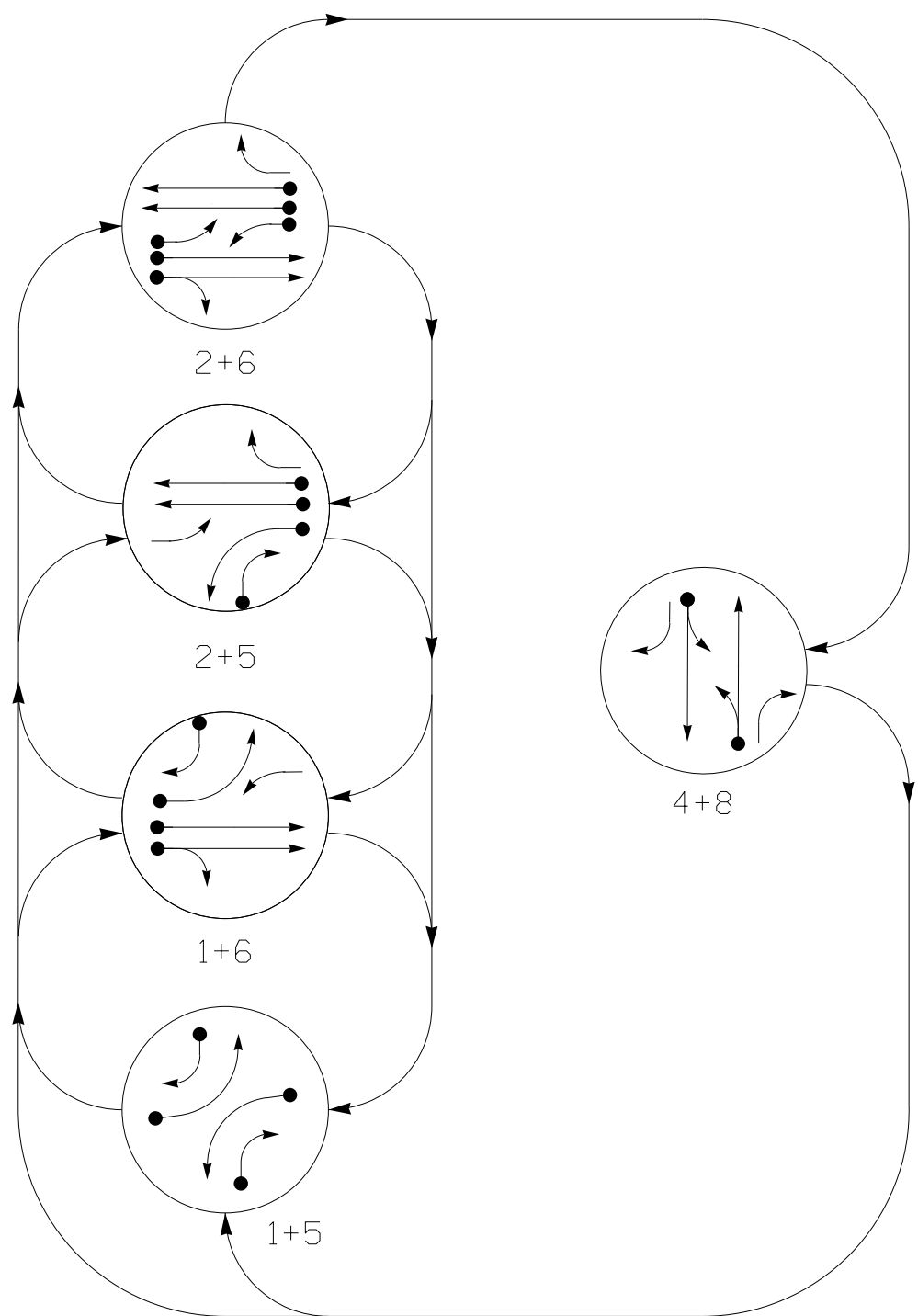


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

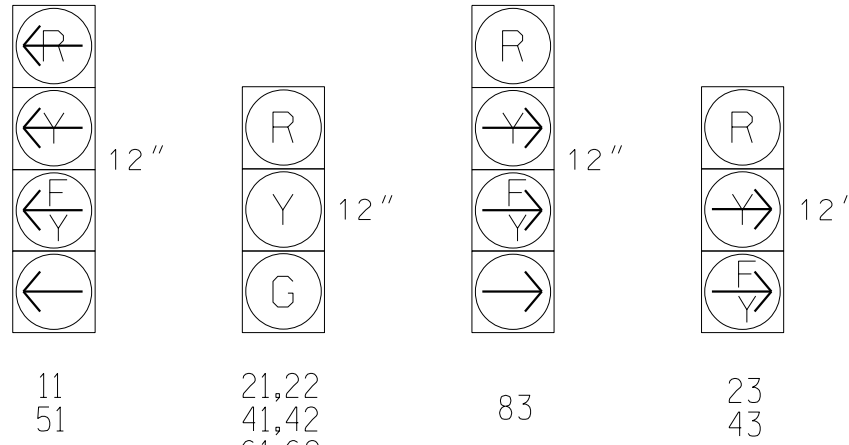
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	1 + 5	1 + 6	2 + 5	2 + 6	4 + 8	FLASH
11	←	←	←	←	←	←
21, 22	R	R	G	G	R	R
23	R	R	←	←	R	R
41, 42	R	R	R	R	G	R
43	←	R	←	R	←	R
51	←	←	←	←	←	←
61, 62	R	G	R	G	R	R
81, 82	R	R	R	R	G	R
83	→	→	R	R	←	←

SIGNAL FACE I.D.

All Heads L.E.D.



MAXTIME DETECTOR INSTALLATION CHART

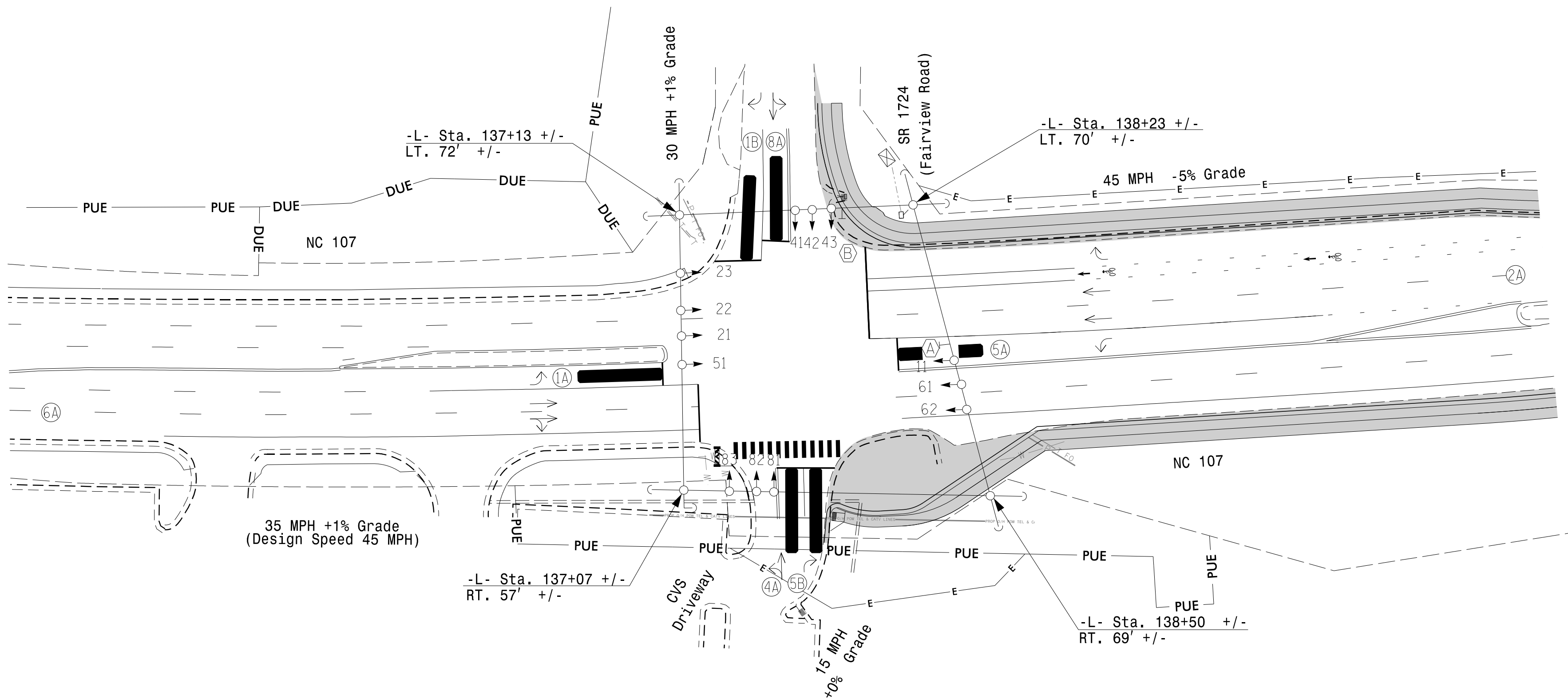
DETECTOR					PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURN	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL DELAY DURING GREEN
1A	6X40	0	*	*	1	15.0	-	X	-	X
1B	*	0	*	X	6	-	-	X	-	X
4A	*	0	*	X	4	15.0	-	X	-	X
5A	6X40	0	*	*	5	15.0	-	X	-	X
5B	*	0	*	X	5	15.0	-	X	-	X
8A	*	0	*	X	8	5.0	-	X	-	X

* Multi-Zone Microwave Detection Zone

5 Phase Fully Actuated (Time Based Coordination)

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.
- Phase 1 and/or phase 5 may be lagged.
- Set all detectors units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 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.



LEGEND

- | PROPOSED | | EXISTING |
|----------|---------------------------------|----------|
| ○→ | Traffic Signal Head | ●→ |
| ●→ | Modified Signal Head | N/A |
| ⊥ | 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 | ⊥ |
| N/A | Right of Way | ⊥ |
| → | Directional Arrow | → |
| ⊥ | Non-Intrusive Detection Zone | ⊥ |
| ⊥ | Construction Zone | N/A |
| N/A | Temporary Construction Easement | ⊥ |
| N/A | Permanent Utility Easement | ⊥ |
| N/A | Drainage Utility Easement | ⊥ |
| N/A | Underground Power Line | ⊥ |
| N/A | Underground Water Line | ⊥ |
| N/A | Underground Fiber Optics | ⊥ |
| N/A | Telephone Cable | ⊥ |
| N/A | Underground Telephone Cable | ⊥ |
| N/A | Over Head Power Line | ⊥ |
| N/A | Barricade | ⊥ |
| ⊥ | No U-Turn Sign Sign (R3-4) | ⊥ |
| ⊥ | Right Turn Yield to U-Turn Sign | ⊥ |

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 *	15	120	30	15	120	30
Yellow Change	3.0	5.0	3.5	3.1	5.0	3.5
Red Clear	3.1	2.3	3.8	2.6	2.3	3.8
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.

Microwave Detection

FUNCTION	Sensor 1		Sensor 2	
	2A	6A	2A	6A
Channel	1	1	1	1
Phase	2	6	2	6
Direction of Travel	NB	SB	NB	SB
Type	Priority	Priority	Priority	Priority
Level	2	2	2	2
Detection Zone (ft)	< 750	< 750	< 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	-

Signal Upgrade

Temporary Design 1 - TMP Ph1, S1



Prepared for: TRANSPORTATION MOBILITY AND SAFETY DIVISION DEPARTMENT OF TRANSPORTATION SIGNAL DESIGN SECTION	NC 107 at SR 1724 (Fairview Road) / CVS Driveway Division 14 Jackson County Sylva PLAN DATE: August 2025 PREPARED BY: DS Griffith REVIEWED BY: ZM Esposito REVISIONS	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL BRITTANY N. GROOME ENGINEER 052936 8/26/2025 DATE SIC. INVENTORY NO. 14-079011
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