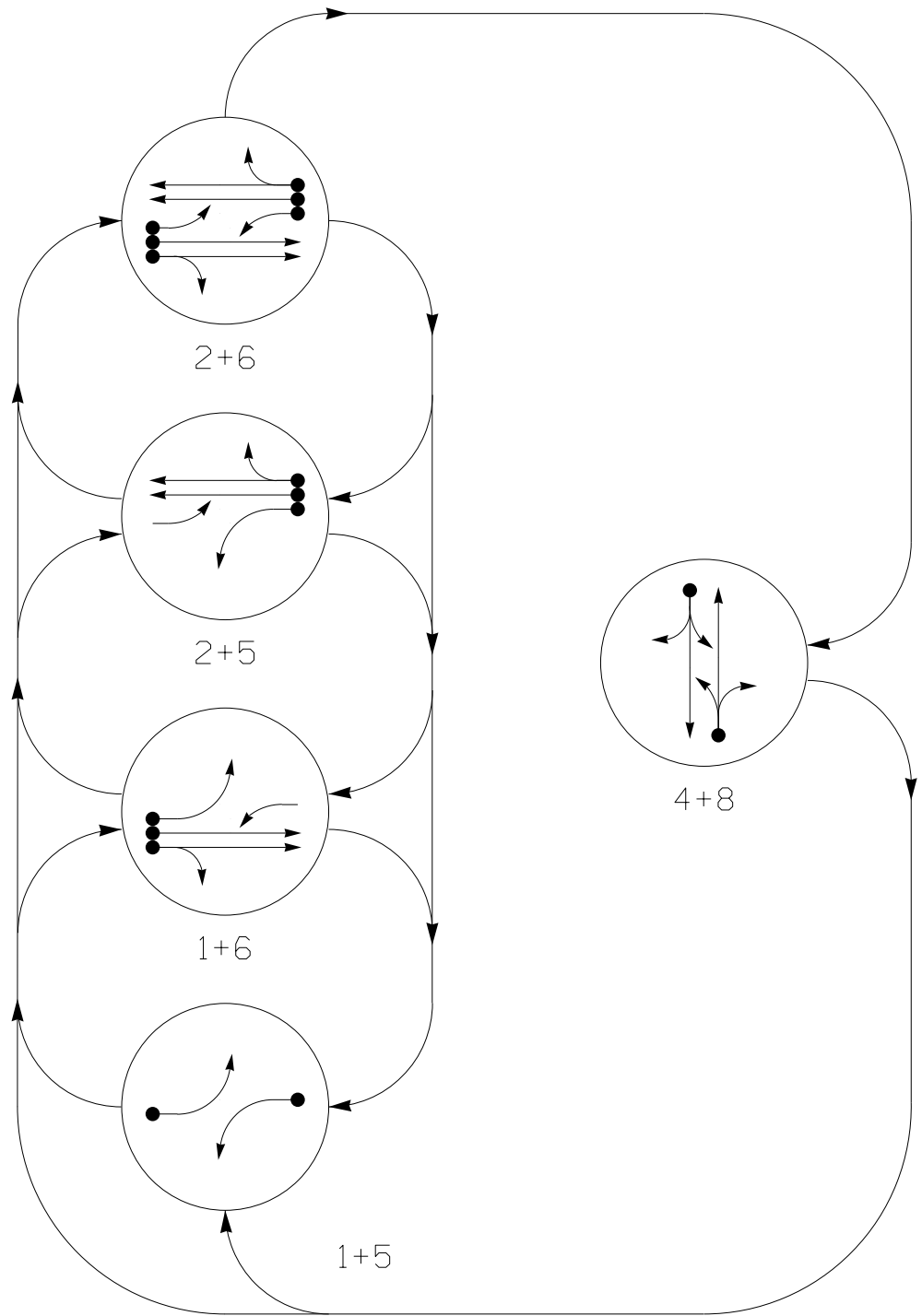


PHASING DIAGRAM

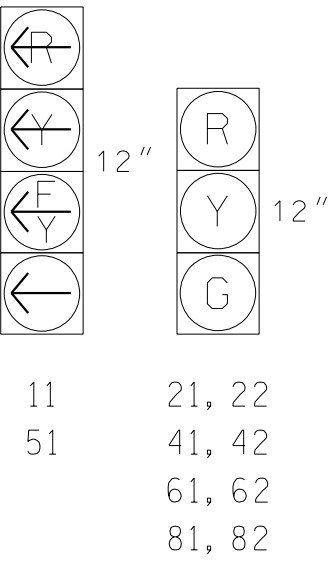


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.

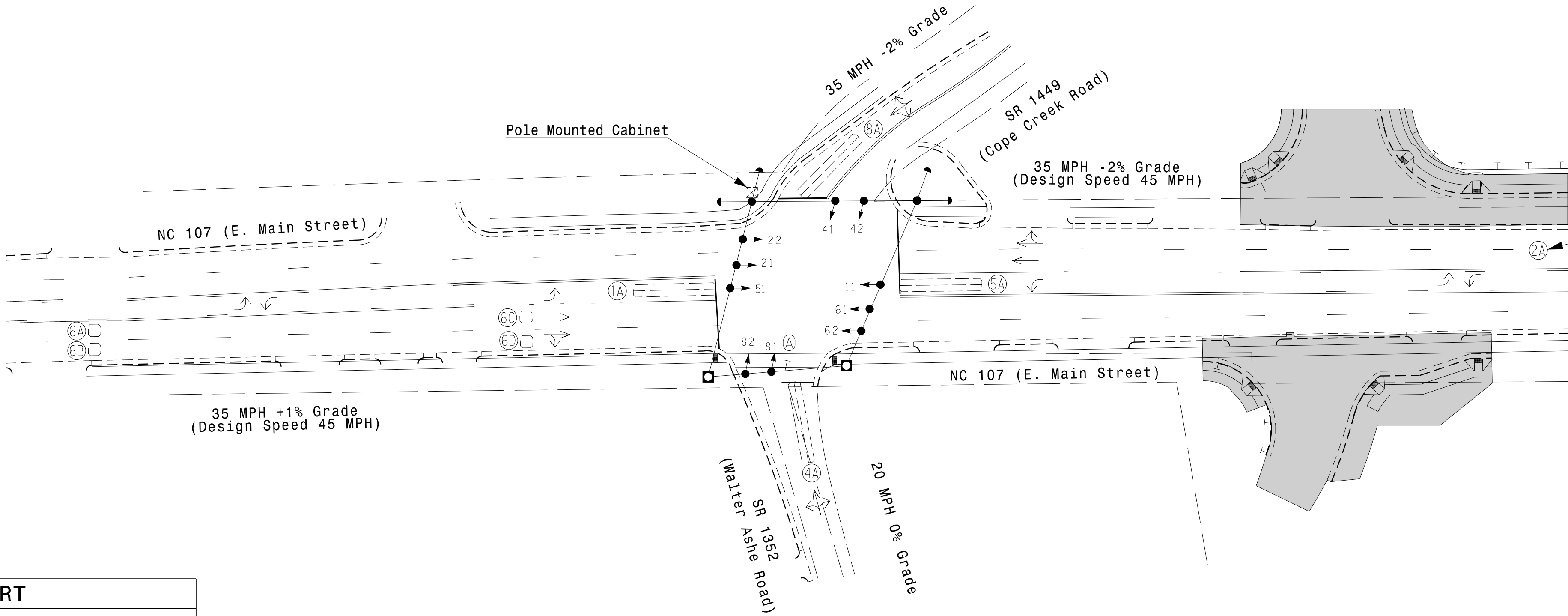


OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
INDUCTIVE LOOPS						DETECTOR PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	-	1	Y	Y	-	-	15	-	-
4A	6X40	0	2-4-2	-	6	Y	Y	-	-	-	-	-
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	15	-	-
6A,6B	6X6	300	EXIST	-	6	Y	Y	-	1.6	-	-	-
6C,6D	6X6	90	EXIST	-	6	Y	Y	-	-	-	-	-
8A	6X40	0	2-4-2	-	8	Y	Y	-	-	5	-	-

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.
- Abandon existing loops # 2A, 2B, 2C and 2D.
- 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



See Note #5

LEGEND

- | PROPOSED | EXISTING |
|--|--|
| Traffic Signal Head | Traffic Signal Head |
| Modified Signal Head | Modified Signal Head |
| Sign | Sign |
| Pedestrian Signal Head With Push Button & Sign | Pedestrian Signal Head With Push Button & Sign |
| Signal Pole with Guy | Signal Pole with Guy |
| Signal Pole with Sidewalk Guy | Signal Pole with Sidewalk Guy |
| Inductive Loop Detector | Inductive Loop Detector |
| Controller & Cabinet | Controller & Cabinet |
| Junction Box | Junction Box |
| 2-in Underground Conduit | 2-in Underground Conduit |
| Right of Way | Right of Way |
| Directional Arrow | Directional Arrow |
| Non-Intrusive Detection Zone | Non-Intrusive Detection Zone |
| Construction Zone | Construction Zone |
| Metal Strain Pole | Metal Strain Pole |
| "Left Turn Yield on Green" Sign (R10-12) | "Left Turn Yield on Green" Sign (R10-12) |

OASIS 2070 TIMING CHART						
FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	12	7	7	12	7
Extension 1 *	3.0	2.0	2.0	2.0	2.0	2.0
Max Green 1 *	15	62	20	15	60	20
Yellow Clearance	3.0	4.7	4.0	3.0	4.7	4.0
Red Clearance	2.3	1.5	2.8	2.4	1.5	2.8
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-
Dual Entry	-	-	ON	-	-	ON
Simultaneous Gap	ON	ON	ON	ON	ON	ON

* 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
Channel	1
Phase	2
Direction of Travel	WB
Type	Priority
Level	2
Detection Zone (ft)	2
Range (ft)	600-100
Enable Speed	Y
Speed Range (mph)	35-100
Enable Estimated Time of Arrival	Y
Estimated Time of Arrival (sec)	2.5-6.5

Signal Upgrade
Temporary Design 1 - TMP Ph1, S1



Prepared for: TRANSPORTATION MOBILITY AND SAFETY DIVISION NORTH CAROLINA DEPARTMENT OF TRANSPORTATION Signal Design Section	NC 107 (E. Main Street) at SR 1352 (Walter Ashe Road) / SR 1449 (Cope Creek Road) Division 14 Jackson County Sylva PLAN DATE: August 2025 PREPARED BY: KA Jones REVIEWED BY: ZM Esposito REVIEWED BY: BN Groome	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL NORTH CAROLINA PROFESSIONAL ENGINEER BRITANNY N GROOME 8/26/2025 DATE 14-069411
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