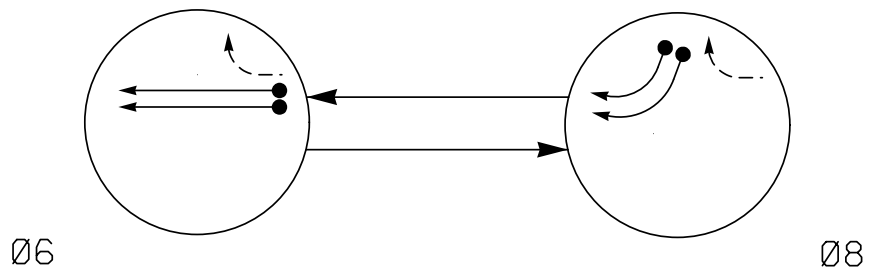


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

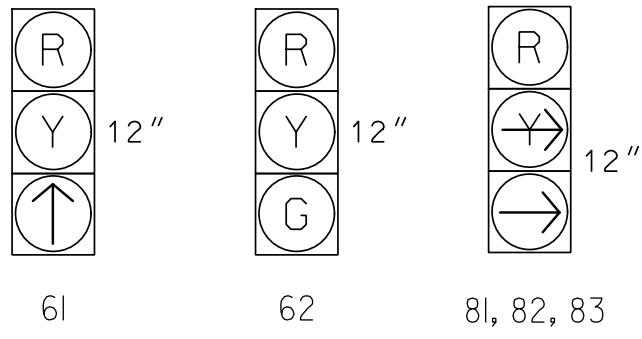
- ←● DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- ←-- UNSIGNALIZED MOVEMENT
- ←--> PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø6	Ø8	FLASH
6I	↑	R	R
62	G	R	R
8I, 82, 83	R	→	R

SIGNAL FACE I.D.

All Heads L.E.D.



MAXTIME DETECTOR INSTALLATION CHART

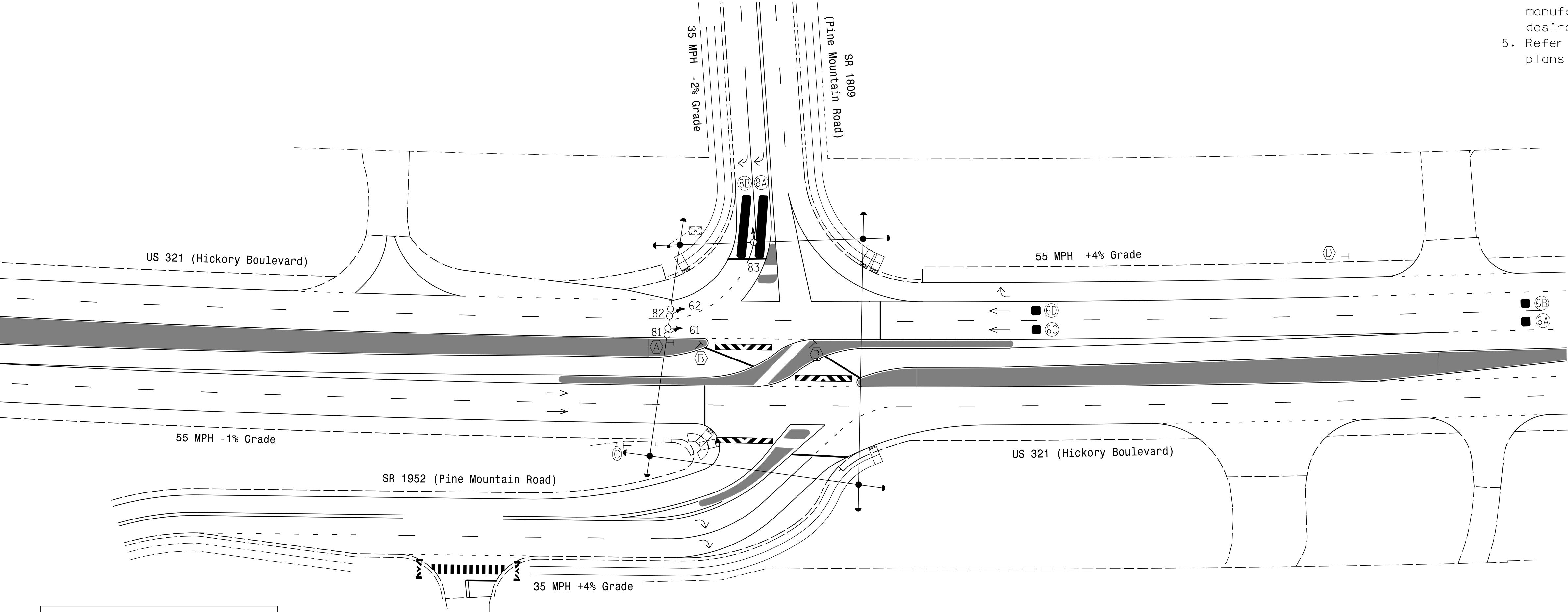
DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	NEW CARD
6A, 6B	6X6	420	*	*	6	-	2.2	X	-	X	-
6C, 6D	6X6	110	*	*	6	-	-	X	-	X	-
8A	6X40	0	*	*	8	15.0	-	X	-	X	-
8B	6X40	0	*	*	8	15.0	-	X	-	X	-

* Video Detection Zone

2 Phase
Fully Actuated
Isolated

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.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Refer to Roadway and/or Pavement Marking plans for stop bar locations.



MAXTIME TIMING CHART

FEATURE	PHASE	
	6	8
Walk *	-	-
Ped Clear *	-	-
Min Green	14	7
Passage *	2.0	2.0
Max 1 *	90	30
Yellow Change	4.8	3.0
Red Clear	1.7	2.8
Added Initial *	-	-
Maximum Initial *	-	-
Time Before Reduction *	-	-
Time To Reduce *	-	-
Minimum Gap	-	-
Advance Walk	-	-
Non Lock Detector	-	X
Vehicle Recall	MIN RECALL	-
Dual Entry	-	-

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

LEGEND

PROPOSED	EXISTING
○→ Traffic Signal Head	●→ N/A
●→ Modified Signal Head Sign	— N/A
↓ Pedestrian Signal Head	↓ N/A
○→ Signal Pole with Guy	●→ N/A
○→ Signal Pole with Sidewalk Guy	●→ N/A
□ Inductive Loop Detector	□ N/A
□ Controller & Cabinet	□ N/A
□ Junction Box	□ N/A
--- 2-in Underground Conduit	--- N/A
N/A Right of Way	N/A
→ Directional Arrow	→ N/A
▬ Curb Ramp	▬ N/A
▬ Video Detection Area	▬ N/A
▬ Construction Zone	▬ N/A
▬ Type III Barricade	▬ N/A
(A) No U-Turn/No Left Turn Sign (R3-18)	(A) N/A
(B) "Do Not Enter" Sign (R5-1)	(B) N/A
(C) NO RIGHT TURN Sign (R3-1)	(C) N/A
(D) "RIGHT LANE MUST TURN RIGHT" Sign (R3-7)	(D) N/A

Signal Upgrade
Temporary Design 2 - TMP Phase II

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Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 321 (Hickory Boulevard) NB
at
SR 1809/SR 1952
(Pine Mountain Road)

Division 11 Caldwell County Hudson

PLAN DATE: June 2024 REVIEWED BY: D.J. Darity

PREPARED BY: J.T. Grimm REVIEWED BY: T.M. Woody

REVISIONS INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

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Trent M. Woody 5/29/2026

SIG. INVENTORY NO. II-0808T2