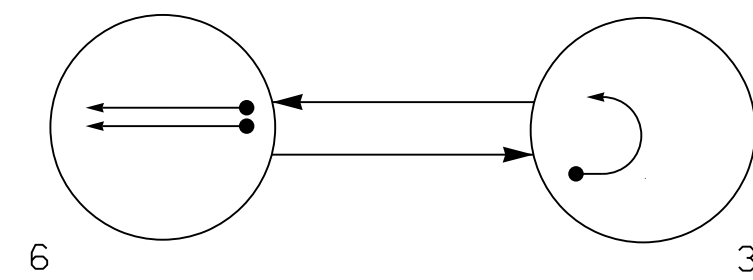


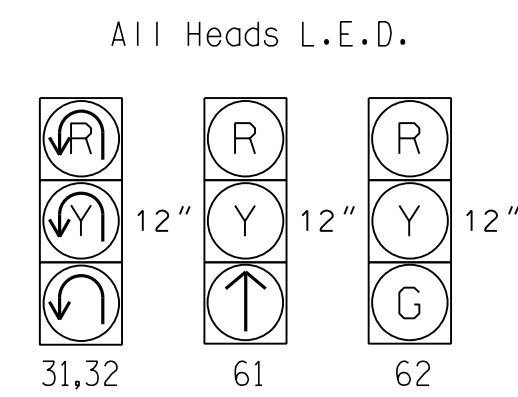
PHASING DIAGRAM



**PHASING DIAGRAM DETECTION LEGEND**  
 ● ← DETECTED MOVEMENT  
 ← UNDETECTED MOVEMENT (OVERLAP)  
 - - - ← UNSIGNALIZED MOVEMENT  
 ← - - - PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE		FLASH
	6	3	
31,32	R	R	
61	↑	R	R
62	G	R	R

SIGNAL FACE I.D.



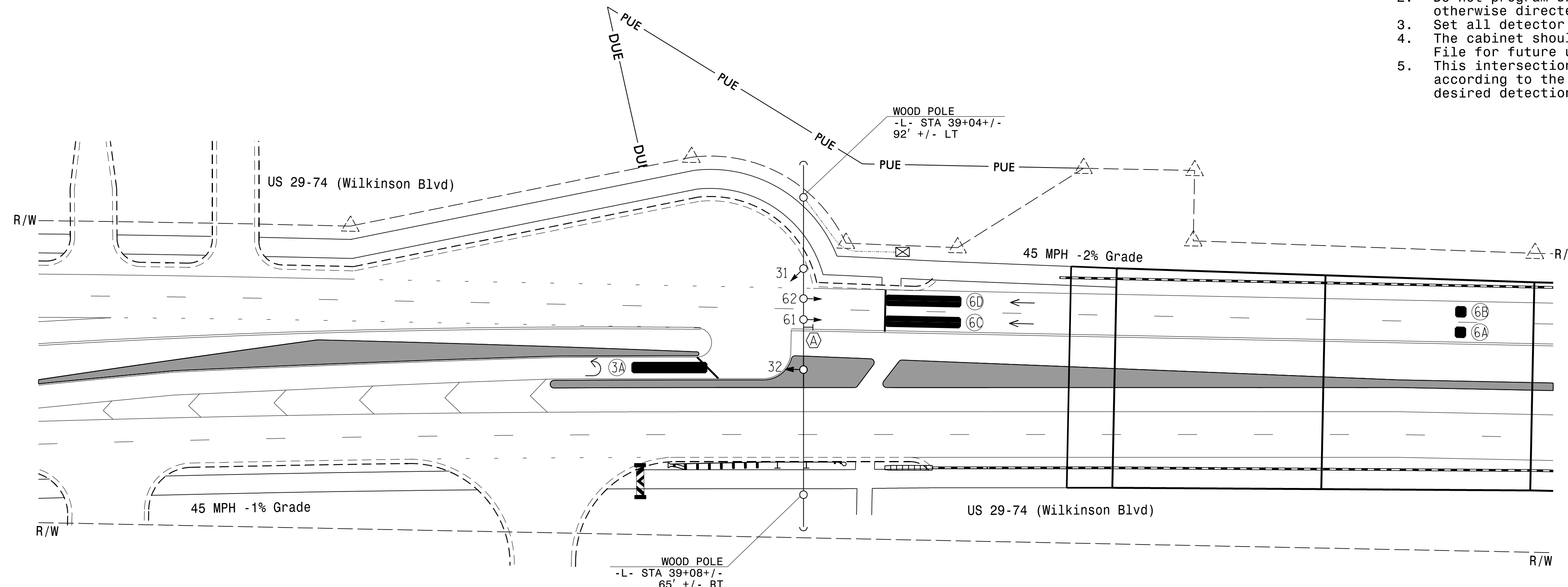
MAXTIME DETECTOR INSTALLATION CHART												
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	
3A	6X40	0	*	*	3	-	-	X	-	X	-	*
6A	6X6	300	*	*	6	-	-	X	X	X	-	*
6B	6X6	300	*	*	6	-	-	X	X	X	-	*
6C	6X40	0	*	*	6	5.0	2.0	X	-	X	X	*
6D	6X40	0	*	*	6	5.0	2.0	X	-	X	X	*

\* VIDEO DETECTION ZONE

2 Phase Fully Actuated (Isolated)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specification 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.
- The cabinet should be designed to include an Auxiliary Output File for future use.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.



MAXTIME TIMING CHART

FEATURE	PHASE	
	3	6
Walk *	-	-
Ped Clear	-	-
Min Green *	7	12
Passage *	2.0	6.0
Max I *	30	90
Yellow Change	3.0	4.7
Red Clear	4.2	1.6
Added Initial *	-	-
Maximum Initial *	-	-
Time Before Reduction *	-	15
Time To Reduce *	-	30
Minimum Gap	-	3.0
Advance Walk	-	-
Non Lock Detector	X	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.

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
○ → Modified Signal Head	○ → N/A
↓ 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
□ Junction Box	□ Junction Box
- - - 2-in Underground Conduit	- - - 2-in Underground Conduit
N/A Right of Way	N/A Right of Way
→ Directional Arrow	→ Directional Arrow
█ Non-Intrusive Detection Zone	█ Non-Intrusive Detection Zone
N/A Guardrail	N/A Guardrail
█ Pedestrian Barricade	█ Pedestrian Barricade
(A) No Left Turn Sign (R3-2)	(A) No Left Turn Sign (R3-2)

New Installation  
 Temporary Design 1 - TMP Phase III Step 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	US 29-74 (Wilkinson Blvd) at Eastbound U-Turn Bulb West of Catawba River Bridge Division 12 Gaston County Belmont	
	PLAN DATE: August 2025 PREPARED BY: WP Erickson-Jones	REVIEWED BY: DT Sears REVIEWED BY: