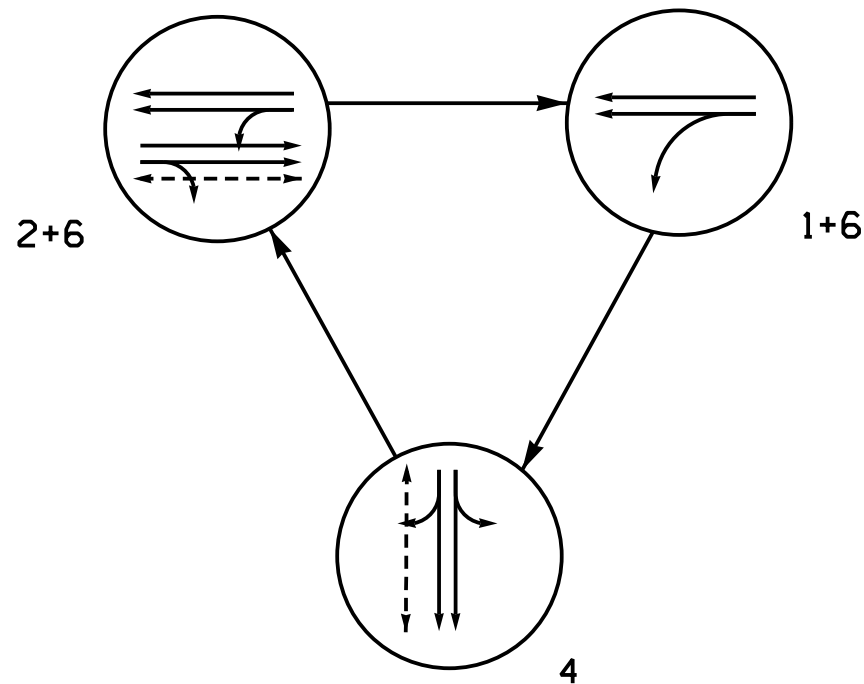


PROJECT REFERENCE NO.	SHEET NO.
U-5777	Sig. 3.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

EV PREEMPT PHASES
(Medium Priority)

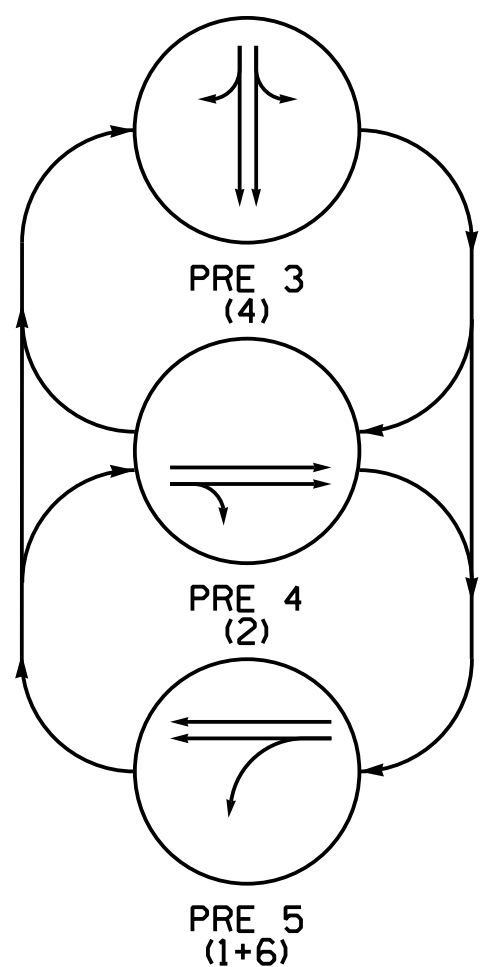
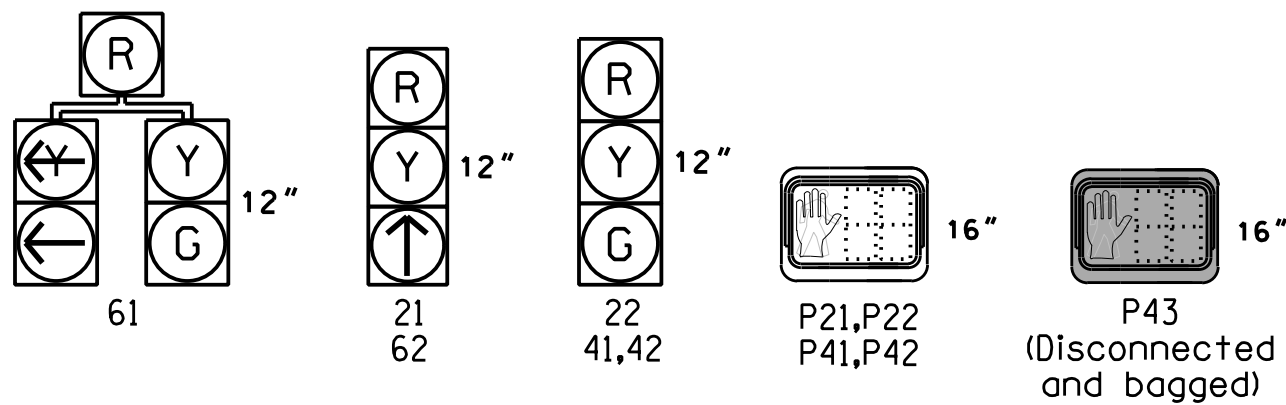


TABLE OF OPERATION

SIGNAL FACE	PHASE									
	1 + 6	2 + 6	4	PRE 3	PRE 4	PRE 5	FLASH			
21	R	↑	R	R	↑	R	R			
22	R	G	R	R	G	R	R			
41,42	R	R	G	G	R	R	R			
61	⧫	G	R	R	⧫	R				
62	↑	↑	R	R	R	↑	R			
P21,P22	DW	W	DW	DW	DW	DW	DRK			
P41,P42	DW	DW	W	DW	DW	DW	DRK			

SIGNAL FACE I.D.

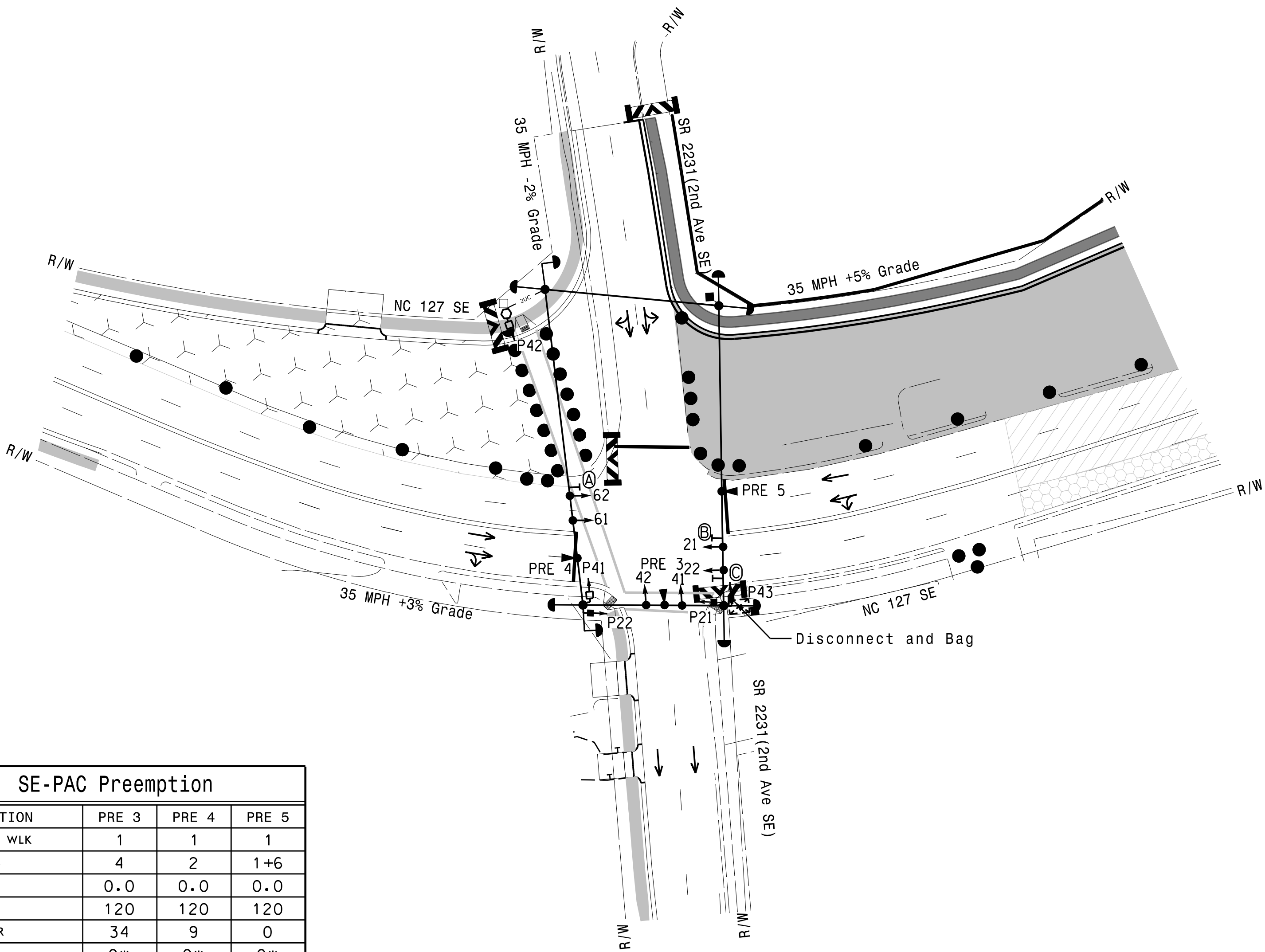
All Heads L.E.D.



3 Phase with EVP
Pre-Timed
Hickory City Signal System

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 may be lagged.
- Disconnect and bag existing pedestrian head numbered P43.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Hickory Signal System Data: Controller Asset #0316.



SE-PAC 2070 TIMING CHART

FEATURE	PHASE			
	1	2	4	6
Min Green *	7	10	7	10
Passage Gap *	-	-	-	-
Maximum Green *	40	40	40	40
Yellow Change	3.0	3.7	4.0	3.7
Red Clear	1.6	1.3	1.4	1.3
Walk *	-	14	14	14
Pedestrian Clear	-	9	34	9
Advance Walk *	-	7	7	7
Added Initial *	-	-	-	-
Maximum Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MAX RECALL	MAX/PED RECALL	MAX/PED RECALL	MAX/PED RECALL
Vehicle Call Memory	NON-LOCK	NON-LOCK	NON-LOCK	NON-LOCK
Dual Entry	-	-	-	-
Simultaneous Gap	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.

SE-PAC Preemption

FUNCTION	PRE 3	PRE 4	PRE 5
MIN GRN / WLK	1	1	1
EXIT PHASES	4	2	1+6
DELAY	0.0	0.0	0.0
MXCALL	120	120	120
SEL PED CLR	34	9	0
SEL YEL / 10	0*	0*	0*
SEL RED / 10	0*	0*	0*
TRACK GREEN	0	0	0
TRK PED CLR	0	0	0
TRK YEL / 10	0	0	0
TRK RED / 10	0	0	0
DWELL GRN	7	10	10
RET PED CLR	0	0	0
RET YEL / 10	0*	0*	0*
RET RED / 10	0*	0*	0*
PREEMPT EXTEND**	2.0	2.0	2.0

* Time defaults to time used for phase during normal operation.
** Program Timing on Optical Detection Unit.

LEGEND

PROPOSED	EXISTING

Signal Upgrade -
Temporary Design 2
(Construction Phase 1, Step 4)

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

	NC 127 SE at SR 2231 (2nd Ave SE)		
	Division 12 Catawba County Hickory		
	PLAN DATE: October 2023	REVIEWED BY: N.K. Vianich	
	PREPARED BY: E.E. Tiller	REVIEWED BY: N.R. Simmons	
REVISIONS		INIT.	DATE
0 40 1"=40'			
DocuSigned by: Natasha R. Simmons 9/6/2024		DATE	
SIC. INVENTORY NO. 12-094572			

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