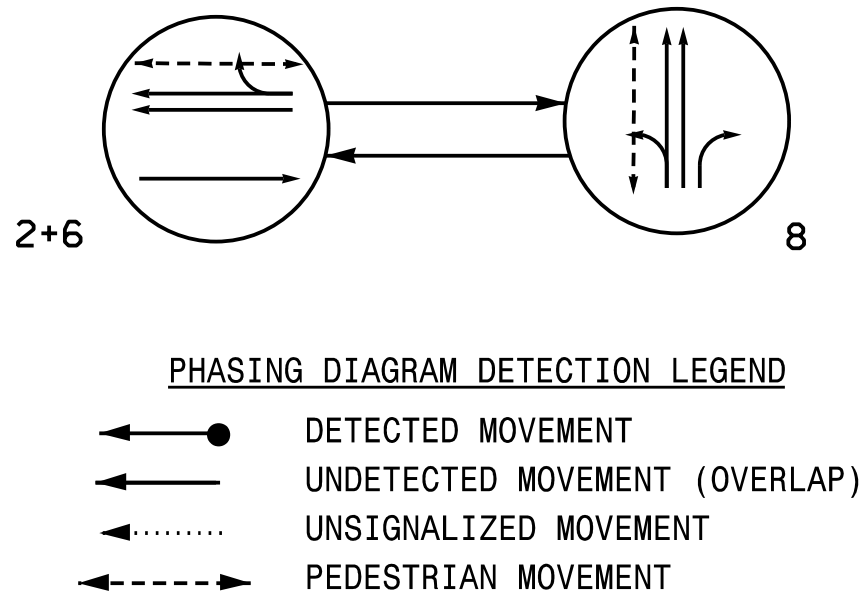
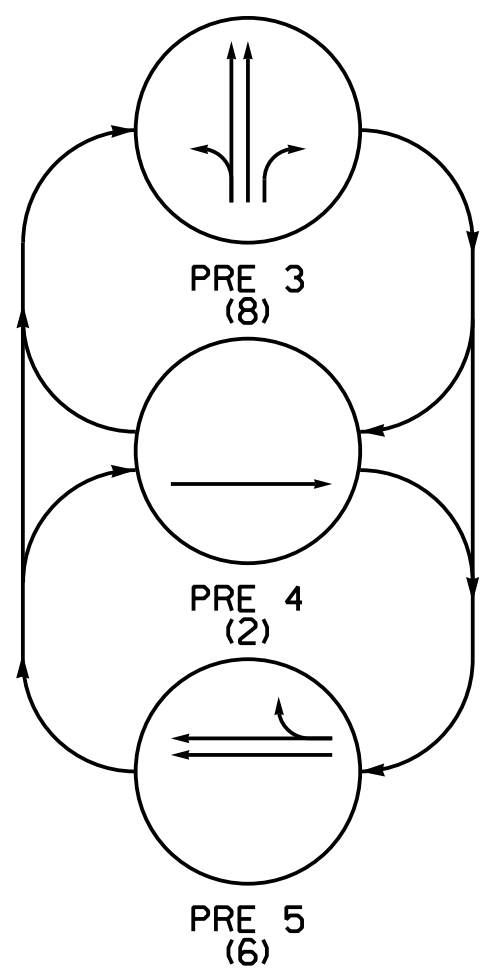


PHASING DIAGRAM



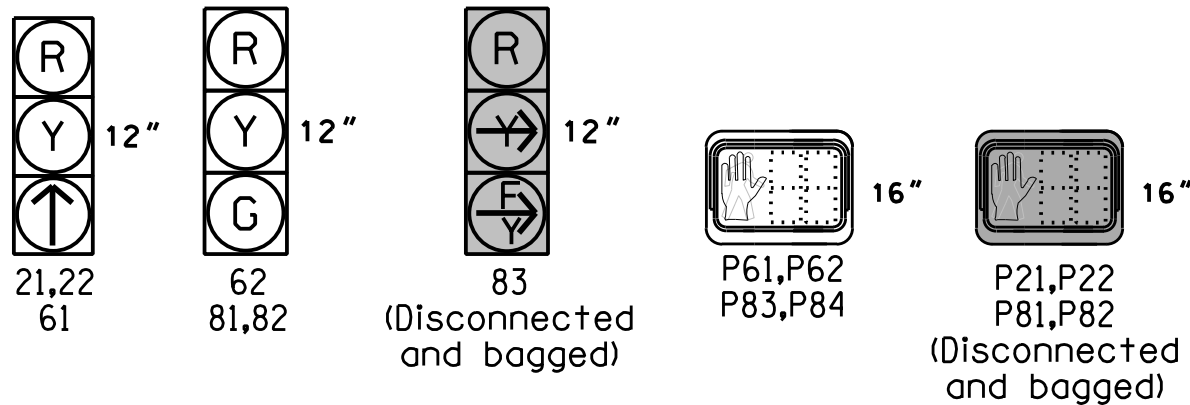
EV PREEMPT PHASES
(Medium Priority)



SIGNAL FACE	PHASE							
	2+6	8	PRE 3	PRE 4	PRE 5	FLASH		
21,22	↑	R	R	↑	R	R		
61	↑	R	R	R	↑	R		
62	G	R	R	R	G	R		
81,82	R	G	G	R	R	R		
P61,P62	W	DW	DW	DW	DW	DRK		
P83,P84	DW	W	DW	DW	DW	DRK		

SIGNAL FACE I.D.

All Heads L.E.D.



2 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.
- Reposition existing signal heads numbered 21, 22, 61, 62, PRE 4 and 5, and existing signs A and B.
- Remove existing signal head numbered 63.
- Disconnect and bag existing signal head numbered 83 and pedestrian heads numbered P21, P22, P81, and P82.
- 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.
- Program phase 4 as a dummy phase for Ring 1.
- Hickory Signal System Data: Controller Asset #0316.

LEGEND

PROPOSED	EXISTING
	N/A
N/A	Right of Way
	N/A
	N/A
	N/A
	N/A
N/A	Curb Ramp
	N/A
N/A	Curb Ramp

SE-PAC 2070 TIMING CHART

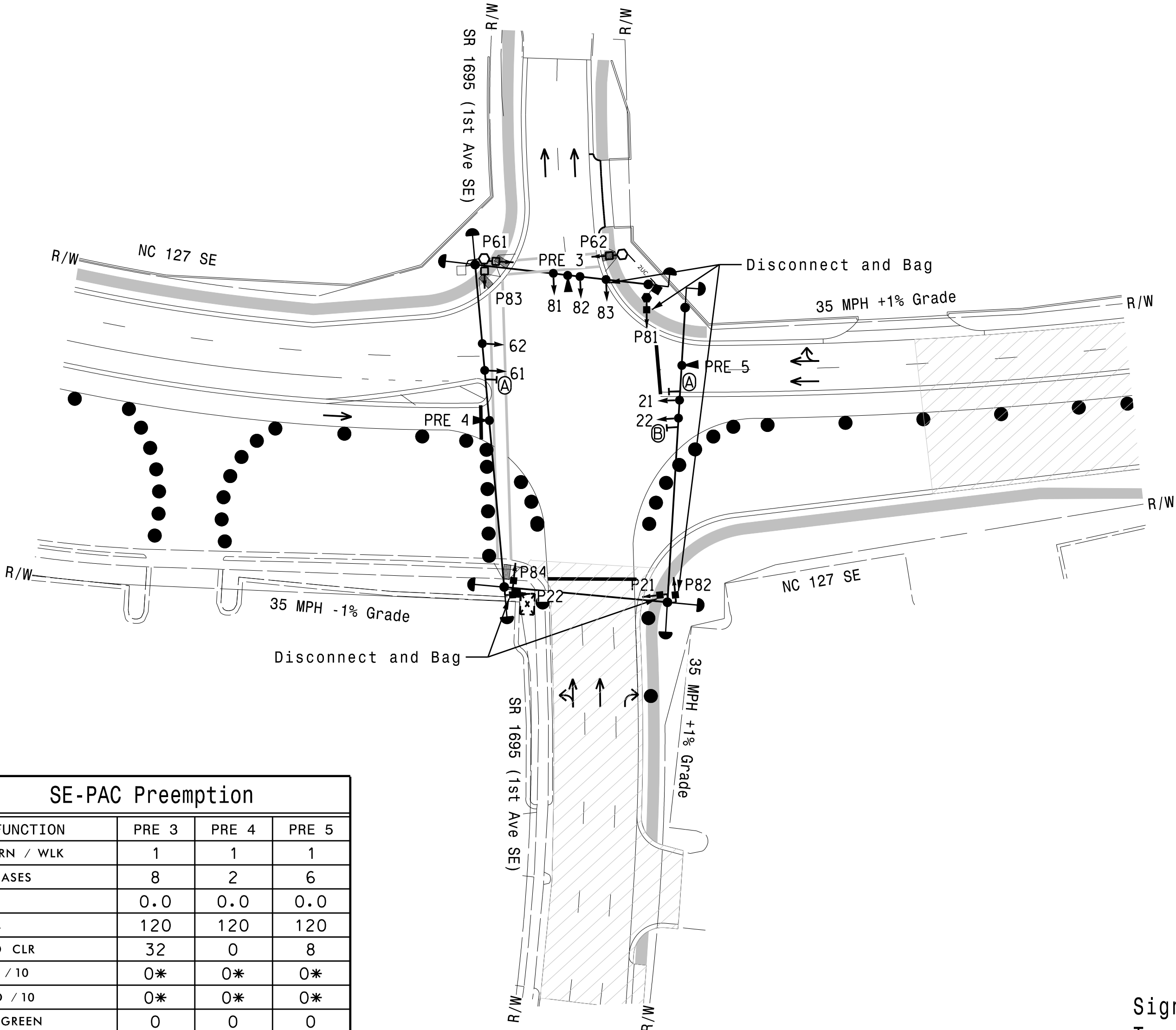
FEATURE	PHASE			
	2	4	6	8
Min Green *	10	7	10	7
Passage Gap *	-	-	-	-
Maximum Green *	40	40	40	40
Yellow Change	3.9	3.8	3.9	3.8
Red Clear	1.4	2.8	1.4	2.8
Walk *	-	-	14	14
Pedestrian Clear	-	-	9	33
Advance Walk *	-	-	7	7
Added Initial *	-	-	-	-
Maximum Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MAX RECALL	MAX 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	8	2	6
DELAY	0.0	0.0	0.0
MXCALL	120	120	120
SEL PED CLR	32	0	8
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.



Signal Upgrade -
Temporary Design 3
(Construction Phase 2)

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

 Prepared for: HNTB NORTH CAROLINA, P.C. 4000 Center at North Hills St Suite 500 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997	NC 127 SE at SR 1692 (1st 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. 12-095473			