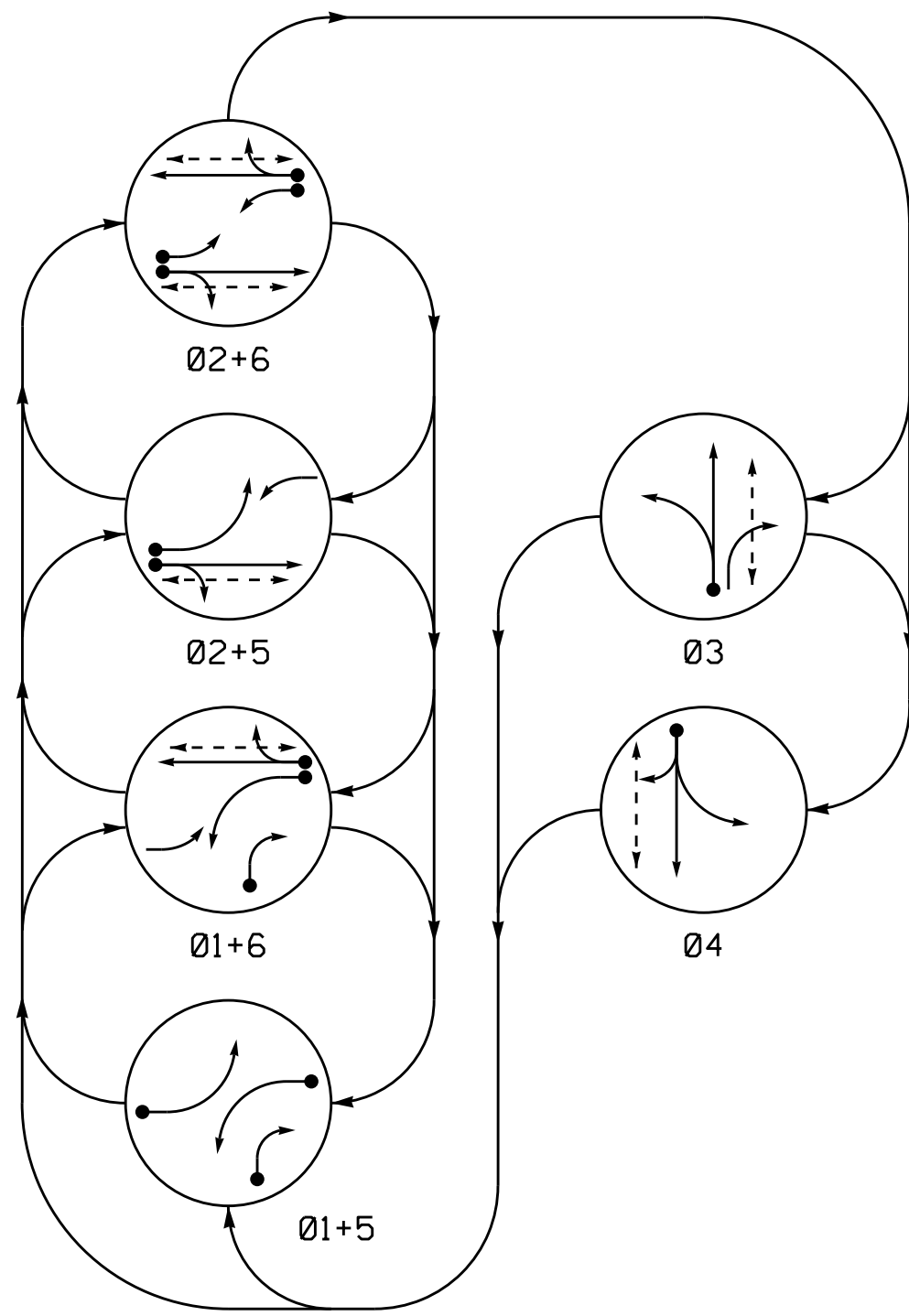
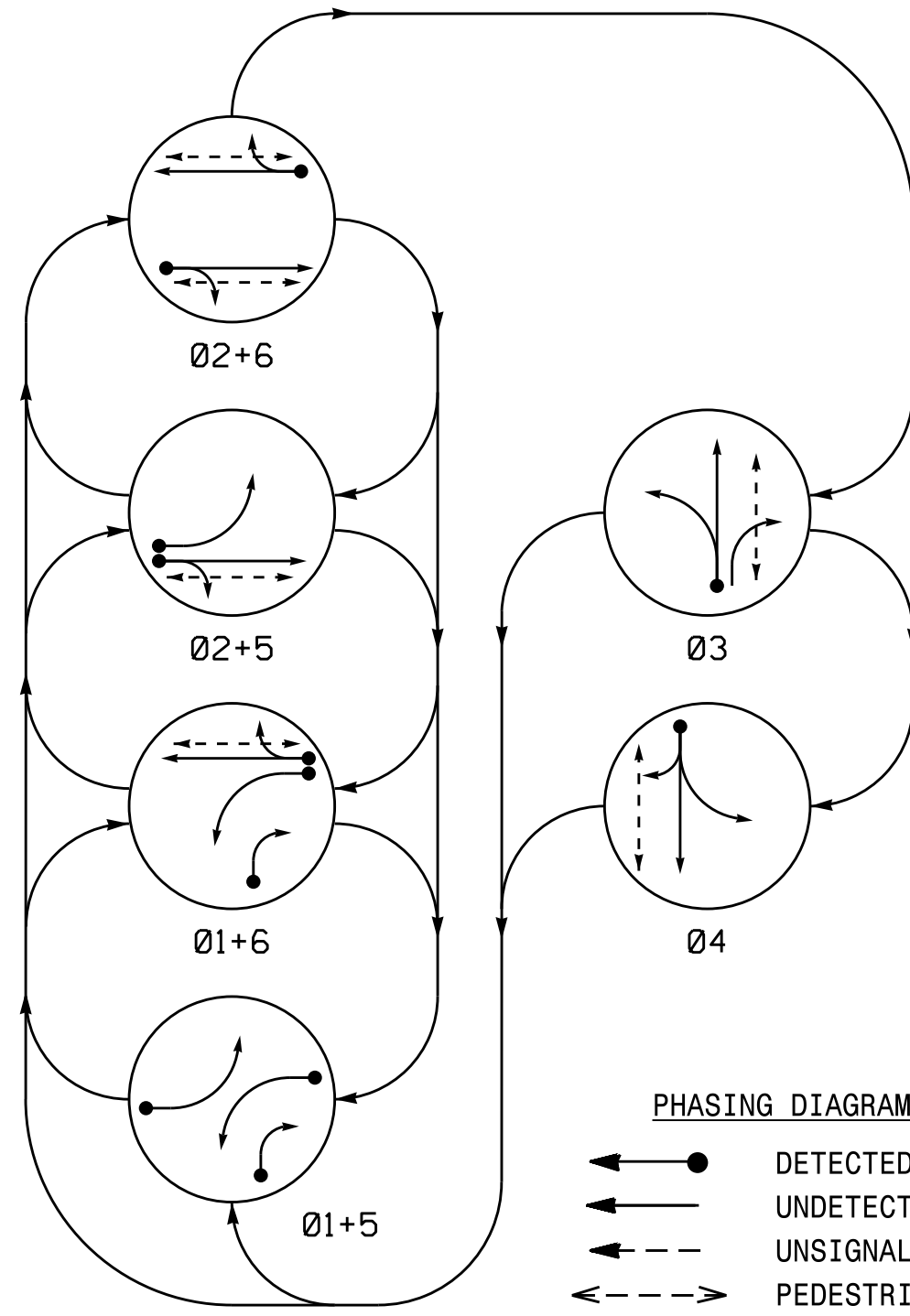


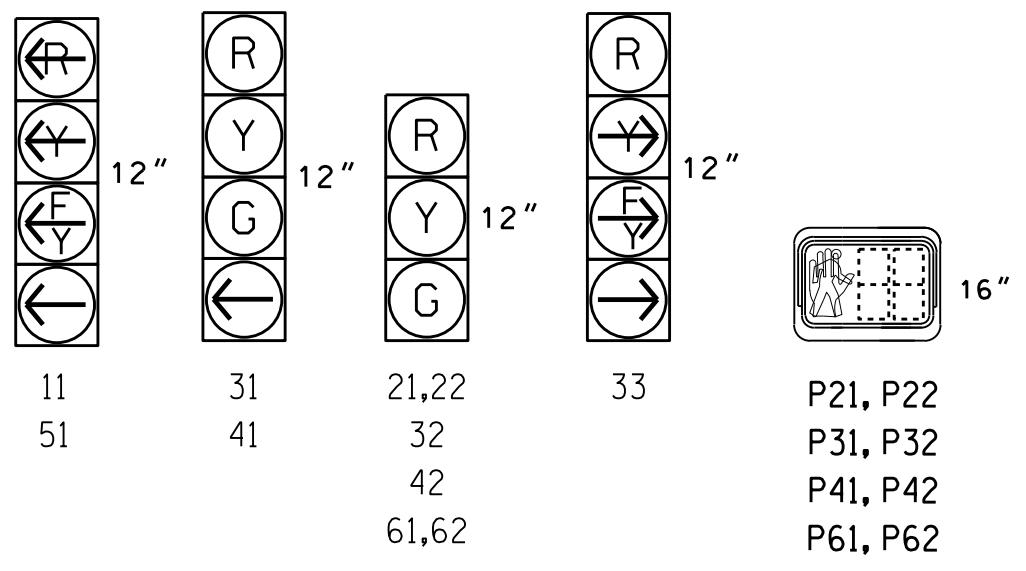
DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



SIGNAL FACE I.D.



MAXTIME DETECTOR INSTALLATION CHART										
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING					
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND INITIAL	ADDED INITIAL	CALL DURING GREEN
1A	6X40	0	2-4-2	X	1	15.0*	-	X	-	X
					6#	-	-	X	-	X
1B	6X40	0	2-4-2	X	1	15.0	-	X	-	X
2A	6X6	70	4	X	2	-	-	X	-	X
3A	6X40	0	2-4-2	X	3	3.0	-	X	-	X
4A	6X40	0	2-4-2	X	4	5.0	-	X	-	X
5A	6X40	0	2-4-2	X	5	15.0*	-	X	-	X
					2#	-	-	X	-	X
6A	6X6	70	3	X	6	-	-	X	-	X

* Reduce delay to 3 sec. during Alternate Phasing Operation.
Disable phase call for loop(s) during Alternate Phasing Operation.

PHASING DIAGRAM DETECTION LEGEND

- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	03	04	
11	←	←	←	←	←	←	Y
21, 22	R	R	G	G	R	R	Y
31	R	R	R	R	G	R	R
32	R	R	R	R	G	R	R
33	→	→	R	R	←	R	R
41	R	R	R	R	R	G	R
42	R	R	R	R	R	G	R
51	←	←	←	←	←	←	Y
61, 62	R	G	R	G	R	R	Y
P21, P22	DW	DW	W	W	DW	DW	DRK
P31, P32	DW	DW	DW	DW	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DW	DRK
P61, P62	DW	W	DW	W	DW	DW	DRK

ALTERNATE PHASING TABLE OF OPERATION

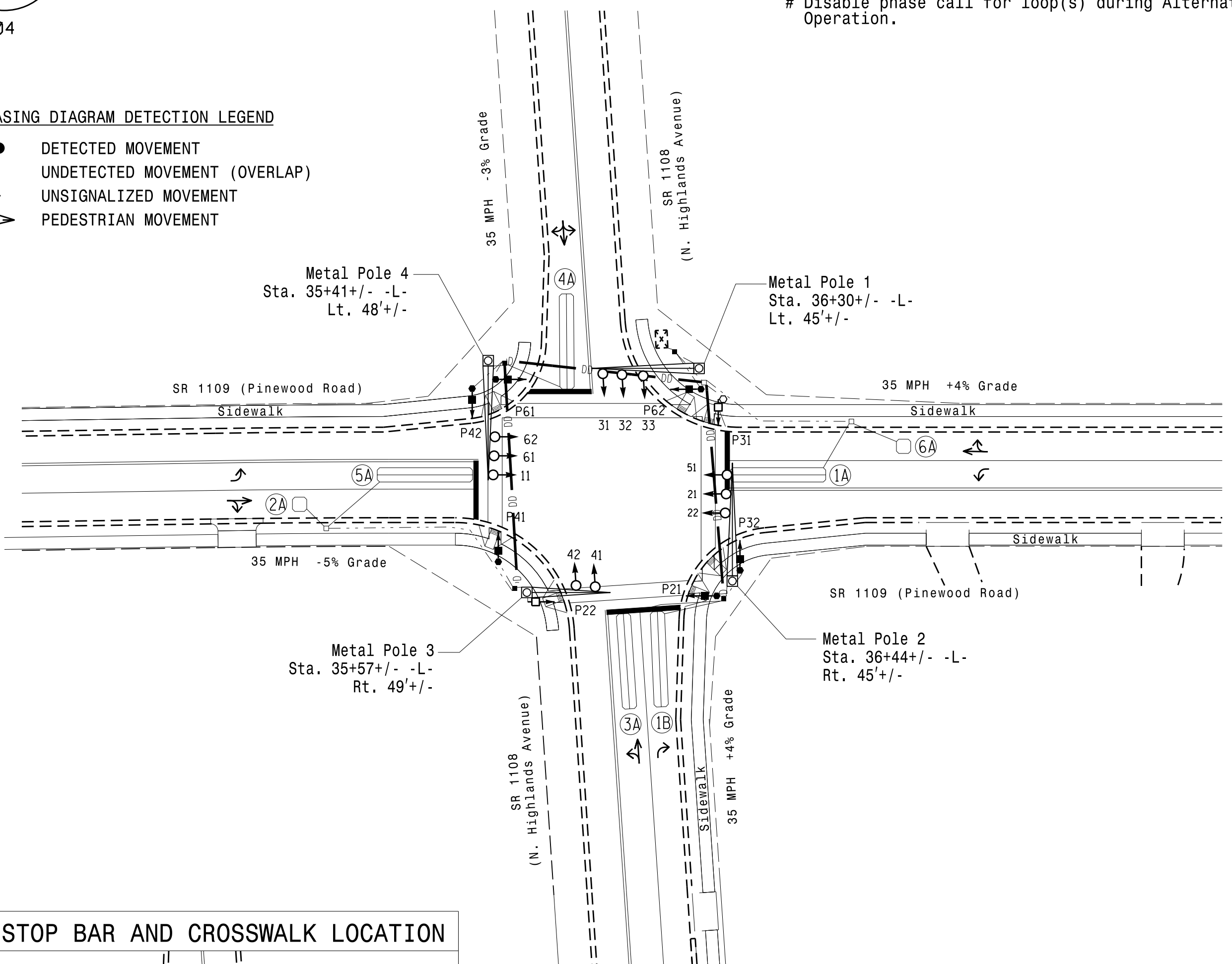
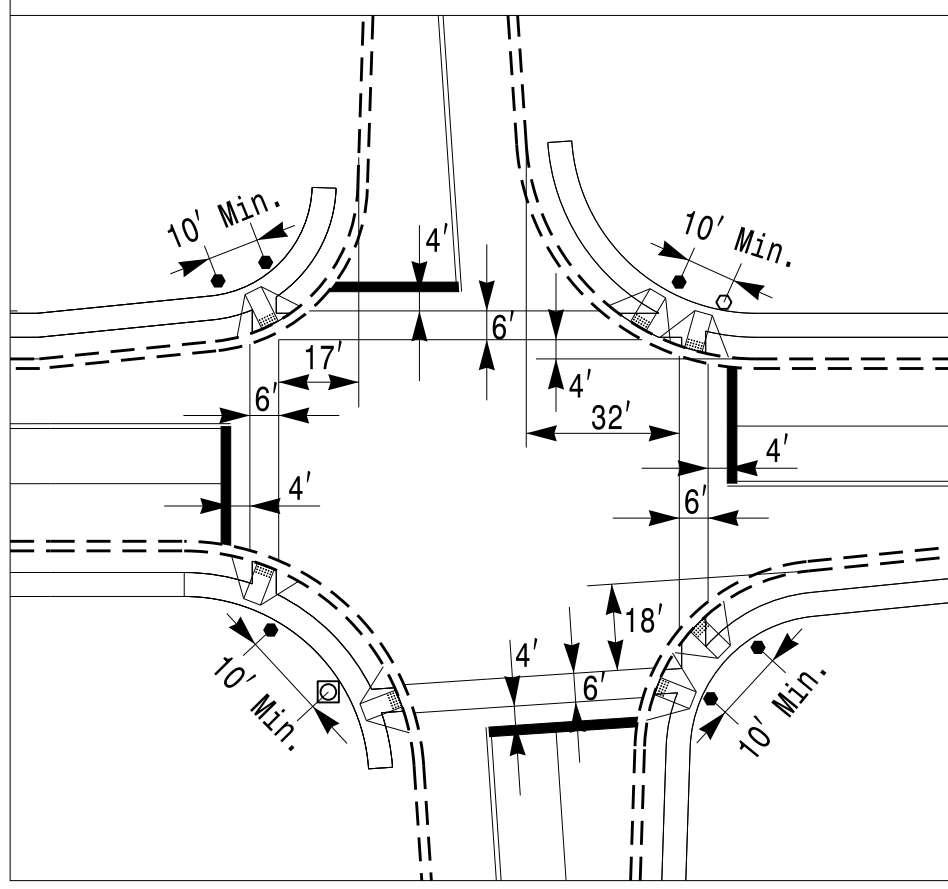
SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	03	04	
11	←	←	←	←	←	←	Y
21, 22	R	R	G	G	R	R	Y
31	R	R	R	R	G	R	R
32	R	R	R	R	G	R	R
33	→	→	R	R	←	R	R
41	R	R	R	R	R	G	R
42	R	R	R	R	R	G	R
51	←	←	←	←	←	←	Y
61, 62	R	G	R	G	R	R	Y
P21, P22	DW	DW	W	W	DW	DW	DRK
P31, P32	DW	DW	DW	DW	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DW	DRK
P61, P62	DW	W	DW	W	DW	DW	DRK

MAXTIME TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Walk *	-	7	7	7	-	7
Ped Clear *	-	12	14	11	-	18
Min Green *	7	10	7	7	7	10
Passage *	2.0	3.0	2.0	2.0	2.0	3.0
Max 1 *	15	40	30	30	15	40
Yellow Change	3.0	4.2	3.6	4.1	3.1	4.2
Red Clear	2.6	2.0	2.5	1.8	2.1	2.0
Added Initial *	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Advance Walk	-	-	-	-	-	-
Non Lock Detector	X	-	X	X	X	-
Vehicle Recall	-	MIN RECALL	-	-	-	MIN RECALL
Dual Entry	-	-	-	-	-	-

* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

STOP BAR AND CROSSWALK LOCATION



This plan supersedes the plan signed and sealed on 9/22/21.

6 Phase Fully Actuated w/ Alternate Phasing Operation 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.
- Phase 1 and/or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Renumber existing pedestrian signal head numbered P82 to P32.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.

LEGEND

- | PROPOSED | EXISTING |
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Signal Upgrade - Final Design

	SR 1109 (Pinewood Road) at SR 1108 (N. Highlands Avenue)		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER RICHARD N. ZINSER 043914
	Division 11 Caldwell County Granite Falls PLAN DATE: August 2023 PREPARED BY: T.A. Kenion	REVIEWED BY: R.N. Zinser REVIEWED BY:	
REVISIONS:			
SCALE: 1"=40' DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

04-DEC-2023 09:12
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