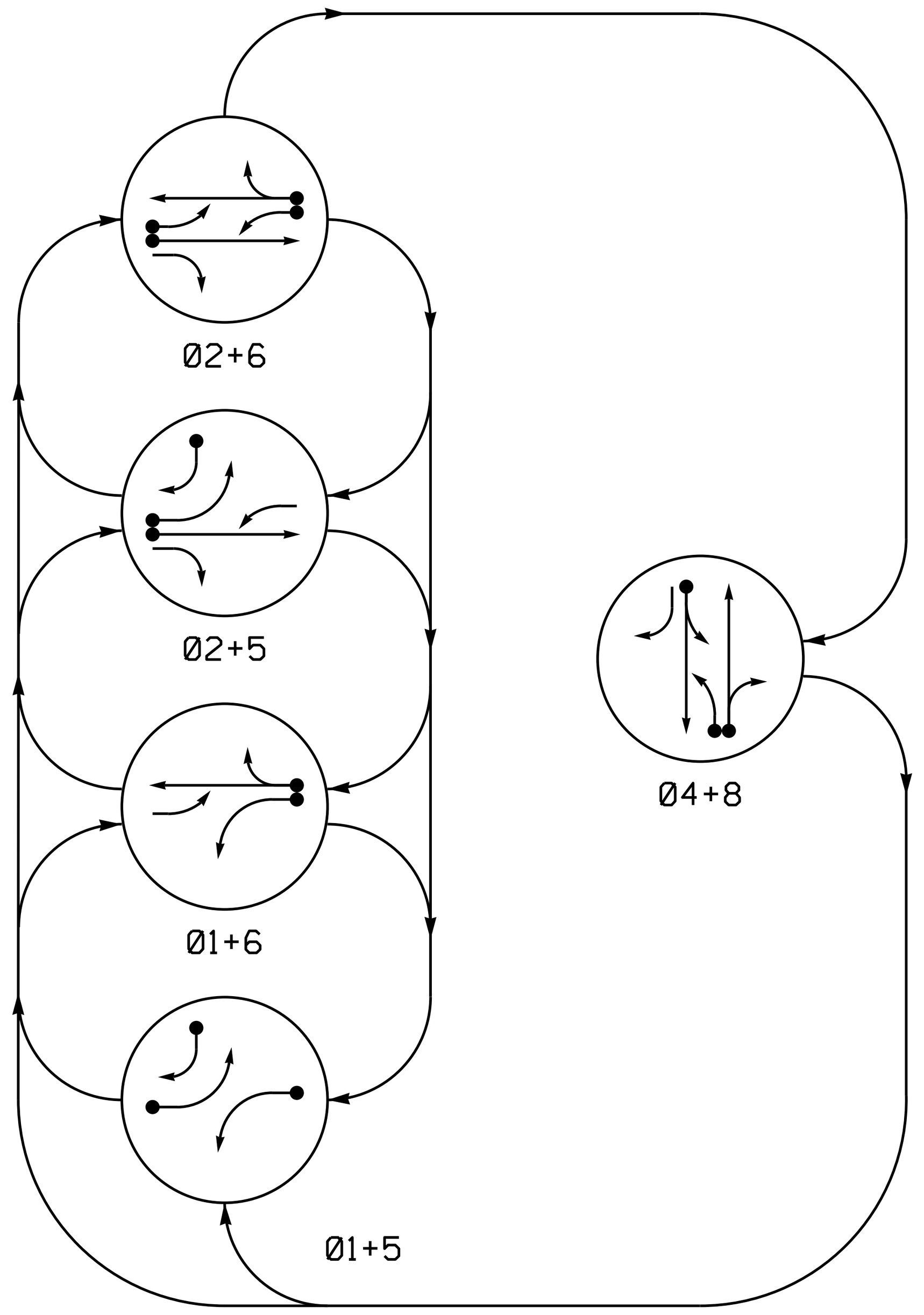
PROJECT REFERENCE NO.	SHEET NO.
U-5809	Sig. 7.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

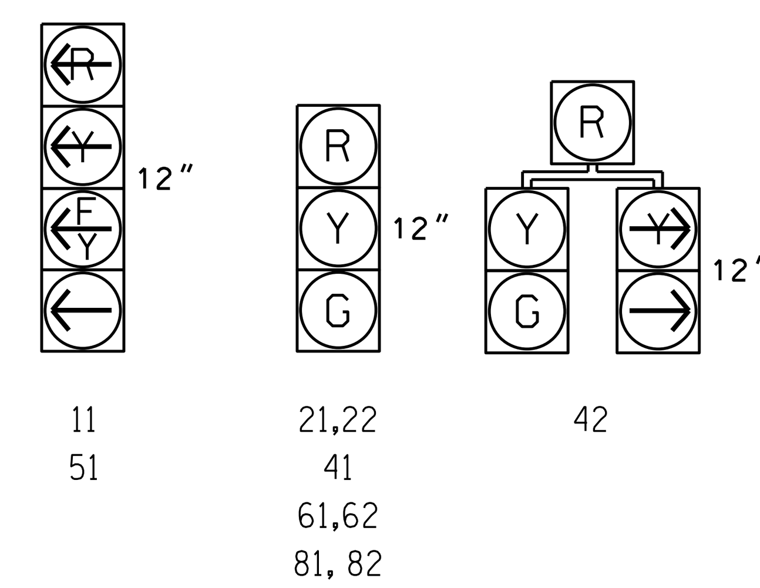
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø4+8	FLASH
11	←	←	← F/Y	← F/Y	← R	← Y
21, 22	R	R	G	G	R	Y
41	R	R	R	R	G	R
42	R / →	R	R / →	R	G	R
51	←	← F/Y	←	← F/Y	← R	← Y
61, 62	R	G	R	G	R	Y
81, 82	R	R	R	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.



MAXTIME DETECTOR INSTALLATION CHART

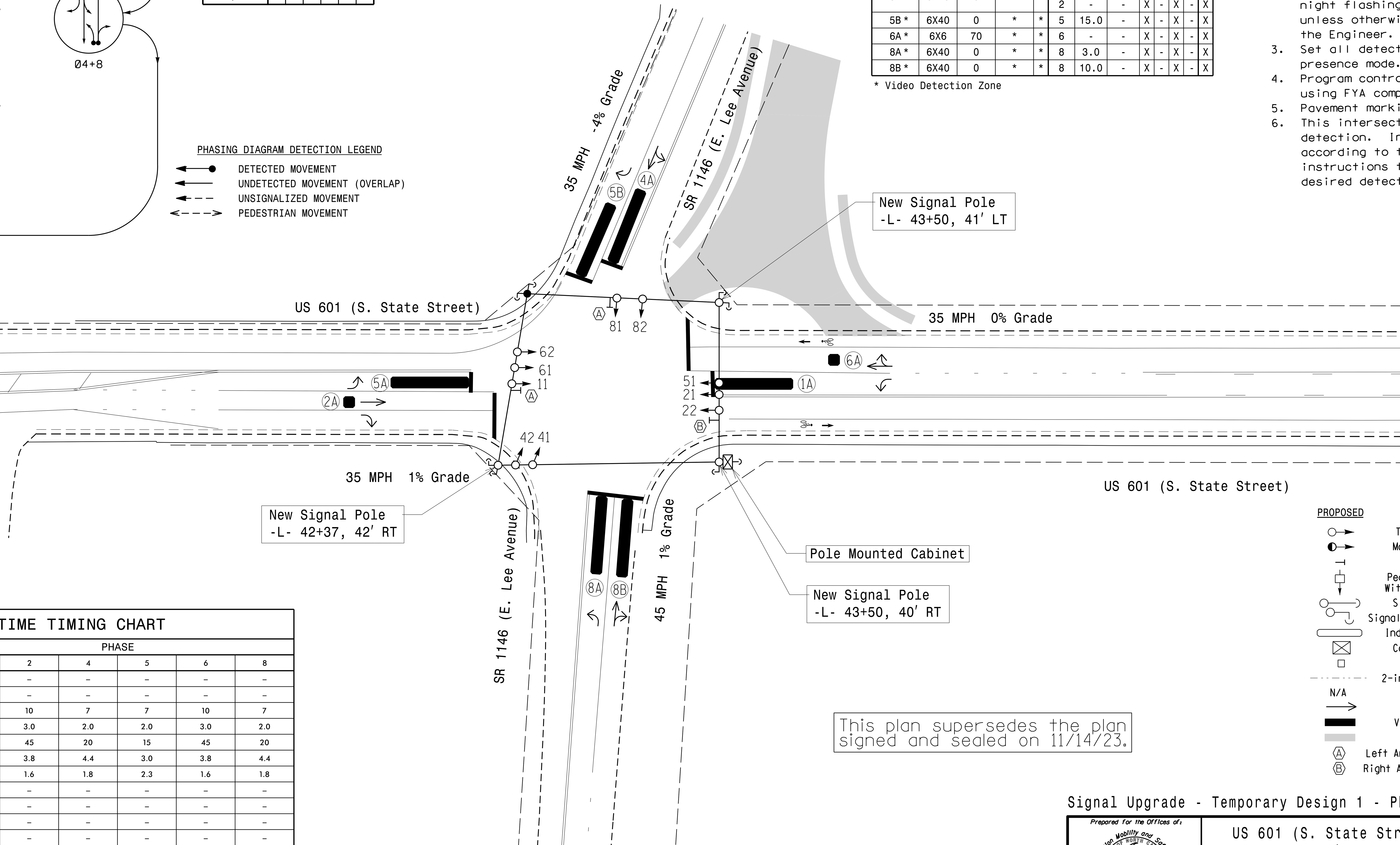
DETECTOR LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A *	6X40	0	*	*	1	15.0	-	X	-	X	-	X
					6	-	-	X	-	X	-	X
2A *	6X6	70	*	*	2	-	-	X	-	X	-	X
4A *	6X40	0	*	*	4	3.0	-	X	-	X	-	X
5A *	6X40	0	*	*	5	15.0	-	X	-	X	-	X
					2	-	-	X	-	X	-	X
5B *	6X40	0	*	*	5	15.0	-	X	-	X	-	X
6A *	6X6	70	*	*	6	-	-	X	-	X	-	X
8A *	6X40	0	*	*	8	3.0	-	X	-	X	-	X
8B *	6X40	0	*	*	8	10.0	-	X	-	X	-	X

* Video Detection Zone

5 Phase
Fully Actuated
Isolated

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.
4. Program controller to operate using FYA compact mode.
5. Pavement markings are existing.
6. This intersection uses video detection. Install detectors according to the manufacturer's instructions to acheive the desired detection.



LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Video Detection Zone	
	Construction Zone	N/A
(A)	Left Arrow "ONLY" Sign (R3-5L)	(A)
(B)	Right Arrow "ONLY" Sign (R3-5R)	(B)

MAXTIME TIMING CHART

FEATURE	PHASE 1	2	4	5	6	8
Walk *	–	–	–	–	–	–
Ped Clear	–	–	–	–	–	–
Min Green *	7	10	7	7	10	7
Passage *	2.0	3.0	2.0	2.0	3.0	2.0
Max 1 *	20	45	20	15	45	20
Yellow Change	3.0	3.8	4.4	3.0	3.8	4.4
Red Clear	2.4	1.6	1.8	2.3	1.6	1.8
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	–	–	X	–	–	X

* 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.

This plan supersedes the plan signed and sealed on 11/14/23.

Signal Upgrade - Temporary Design 1 - Phase I

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

US 601 (S. State Street) at SR 1146 (Lee Avenue)

Division 11 Yadkin County Yadkinville

PLAN DATE: February 2024	REVIEWED BY: R.N. Zinser
PREPARED BY: T.A. Kenion	REVIEWED BY:

SCALE 0 30 1"=30'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 043914 ENGINEER RICHARD N. ZINSER

DocuSigned by: R. Nicholas Zinser 03/04/2024
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DATE

SIG. INVENTORY NO. 11-0063T1

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