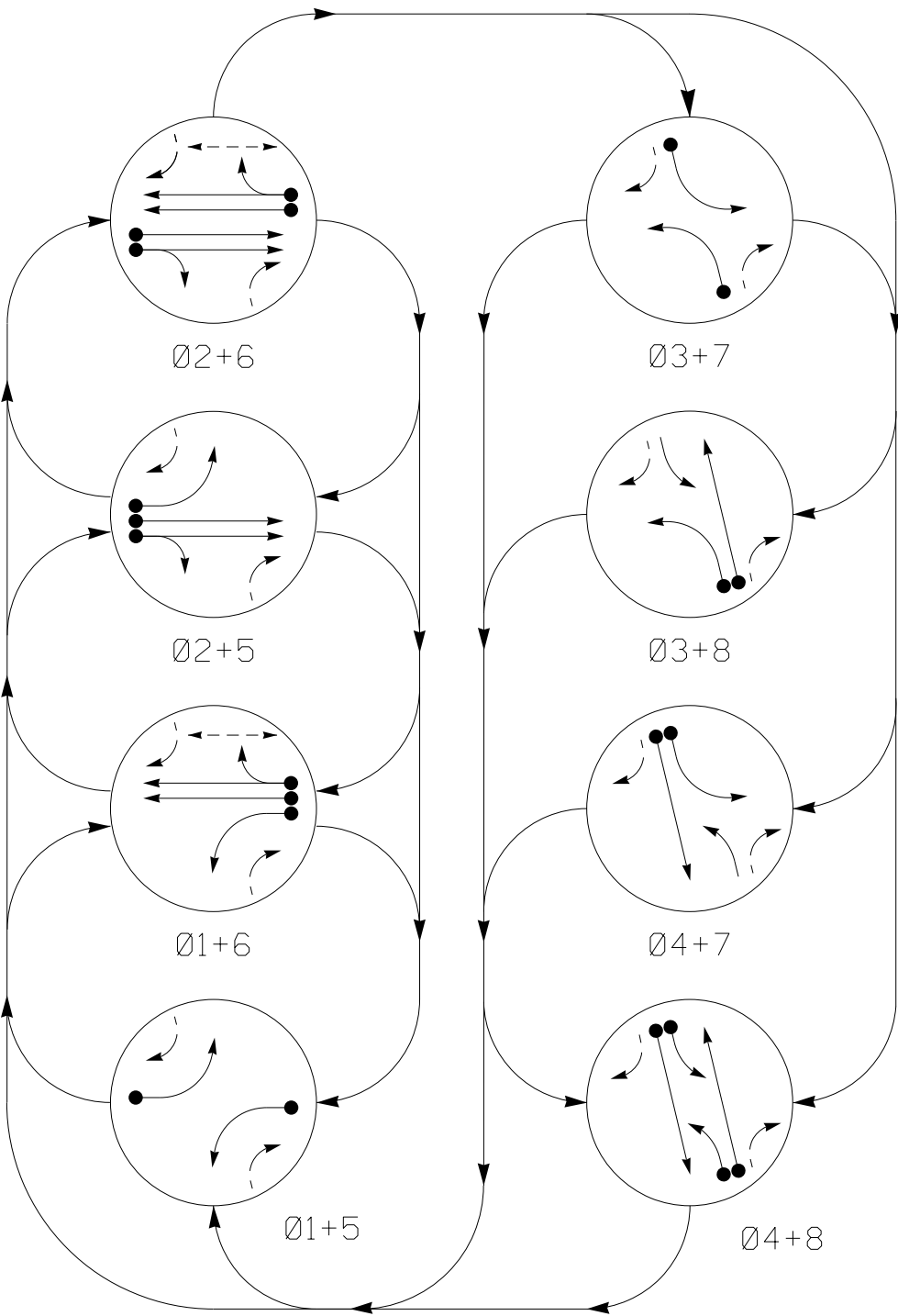


DEFAULT PHASING DIAGRAM

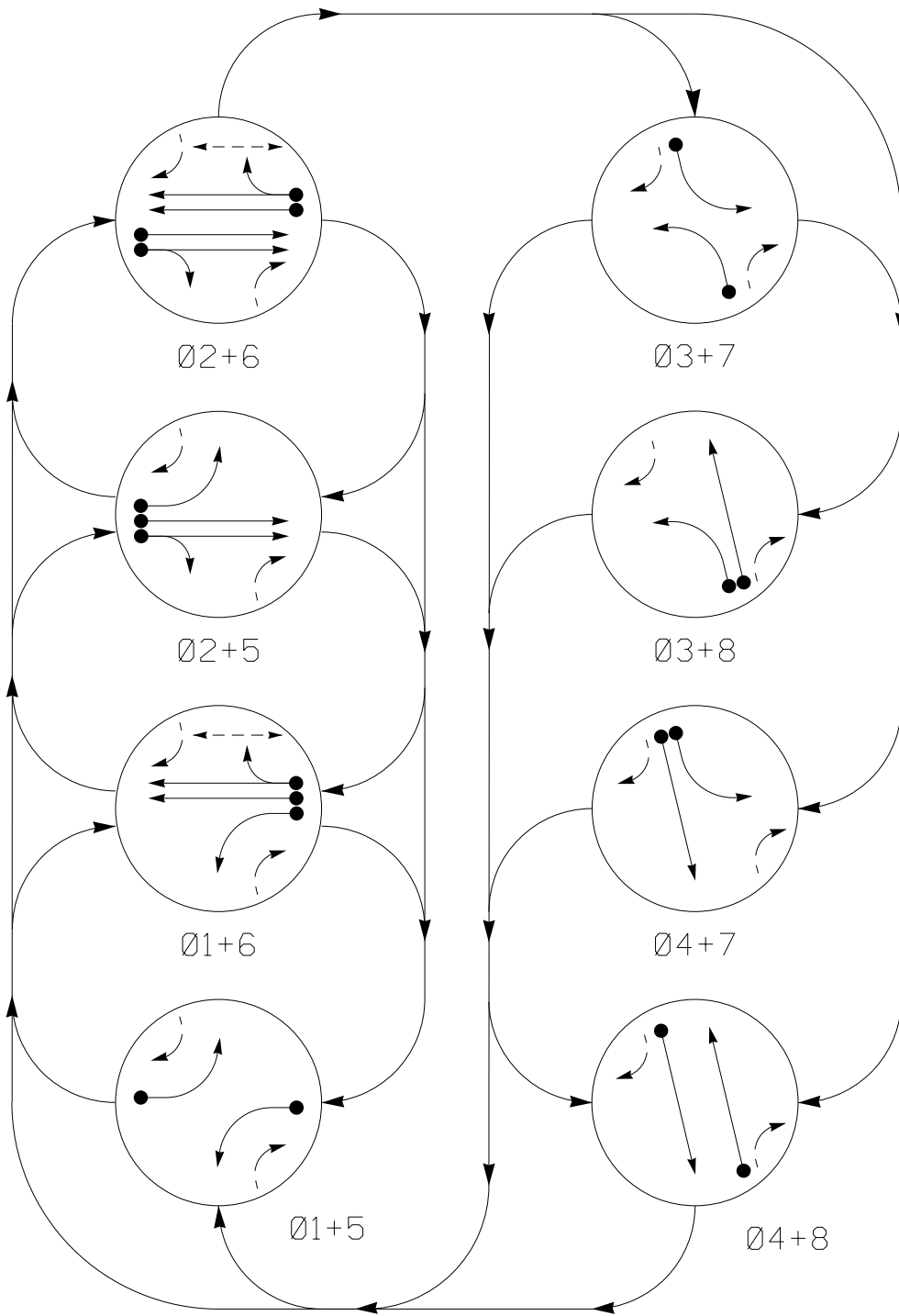


DEFAULT PHASING TABLE OF OPERATION										
SIGNAL FACE	PHASE									
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 3 + 7	Ø 3 + 8	Ø 4 + 7	Ø 4 + 8	FL SH	H
11	←	←	→	→	←	←	→	→	←	←
21, 22	R	R	G	G	R	R	R	R	R	R
31	→	→	→	→	←	←	→	→	→	→
41, 42	R	R	R	R	R	R	G	G	R	R
51	←	←	←	←	→	→	→	→	←	←
61, 62	R	G	R	G	R	R	R	R	←	←
71	→	→	→	→	←	←	→	→	→	→
81, 82	R	R	R	R	R	G	R	G	R	R
P61, P62	DW	W	DW	W	DW	DW	DW	DW	DRK	DRK

ALTERNATE PHASING
TABLE OF OPERATION

SIGNAL FACE	PHASE									
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 3 + 7	Ø 3 + 8	Ø 4 + 7	Ø 4 + 8	FL SH	H
11	←	←	→	→	←	←	→	→	←	←
21, 22	R	R	G	G	R	R	R	R	R	R
31	→	→	→	→	←	←	→	→	→	→
41, 42	R	R	R	R	R	R	G	G	R	R
51	←	←	←	←	→	→	→	→	←	←
61, 62	R	G	R	G	R	R	R	R	←	←
71	→	→	→	→	←	←	→	→	→	→
81, 82	R	R	R	R	R	G	R	G	R	R
P61, P62	DW	W	DW	W	DW	DW	DW	DW	DRK	DRK

ALTERNATE PHASING DIAGRAM



MAXTIME DETECTOR INSTALLATION CHART

DETECTOR				PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN NEW CARD
1A	6X40	0	*	*	1	3.0	-	X	-	X	*
3A	6X40	0	*	*	3	15.0*	-	X	-	X	*
					8#	3.0	-	X	-	X	*
4A	6X40	0	*	*	4	3.0	-	X	-	X	*
5A	6X40	0	*	*	5	3.0	-	X	-	X	*
7A	6X40	0	*	*	7	15.0*	-	X	-	X	*
					4#	3.0	-	X	-	X	*
8A	6X40	0	*	*	8	3.0	-	X	-	X	*
S1	6X6	+200	3	X	-	-	-	-	-	-	X
S2	6X6	+200	3	X	-	-	-	-	-	-	X

Disable Phase Call For Loops During Alternate Phasing Operation.

* Reduce Delay to 3 Seconds During Alternate Phasing Operation.

* Multi-zone Microwave Detection

Multi-zone Microwave Detection

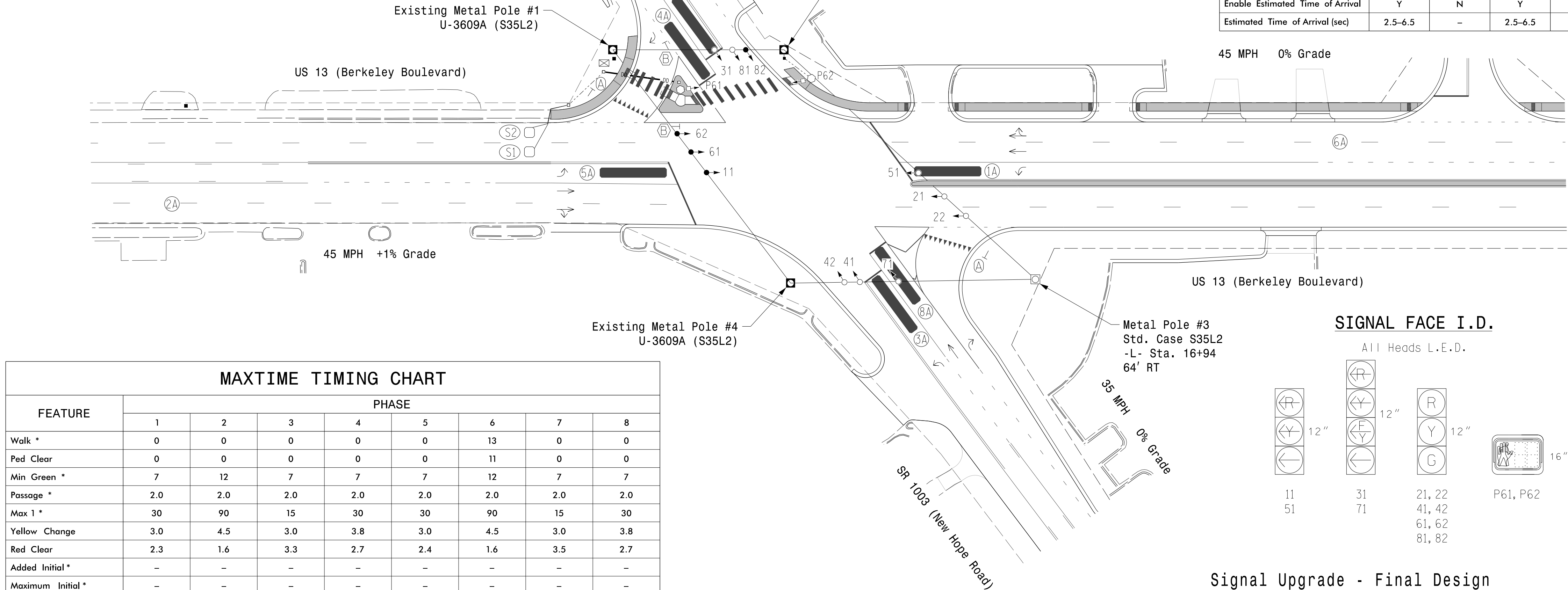
FUNCTION	2A Sensor 1	6A Sensor 2
Channel	1	1
Phase	2	6
Direction of Travel	NB	SB
Type	Priority	Priority
Level	1	1
Detection Zone (ft)	100-500	100-500
Enable Speed	Y	Y
Speed Range (mph)	35-100	35-100
Enable Estimated Time of Arrival	Y	Y
Estimated Time of Arrival (sec)	2.5-6.5	2.5-6.5

8 Phase
Fully Actuated
(Goldsboro 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 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Reposition existing signal heads numbered 11, 61, 62, and 82.
- 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 (City) Traffic Engineer will determine the hours of use for each phasing plan.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Install new cabinet and controller on existing foundation.

PHASING DIAGRAM DETECTION LEGEND

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



MAXTIME TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Walk *	0	0	0	0	0	13	0	0
Ped Clear	0	0	0	0	0	11	0	0
Min Green *	7	12	7	7	7	12	7	7
Passage *	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Max 1 *	30	90	15	30	30	90	15	30
Yellow Change	3.0	4.5	3.0	3.8	3.0	4.5	3.0	3.8
Red Clear	2.3	1.6	3.3	2.7	2.4	1.6	3.5	2.7
Added Initial *	-	-	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
Advance Walk	-	-	-	-	-	6	-	-
Non Lock Detector	X	-	X	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.

LEGEND

- | PROPOSED | EXISTING |
|--|----------|
| Traffic Signal Head | N/A |
| Modified Signal Head | N/A |
| Sign | N/A |
| Pedestrian Signal Head With Push Button & Sign | N/A |
| Signal Pole with Guy | N/A |
| Signal Pole with Sidewalk Guy | N/A |
| Inductive Loop Detector | N/A |
| Multi-zone Microwave Detection | N/A |
| Controller & Cabinet | N/A |
| Junction Box | N/A |
| 2-in Underground Conduit | N/A |
| Right of Way | N/A |
| Directional Arrow | N/A |
| Metal Strain Pole | N/A |
| "YIELD" Sign (R1-2) | N/A |
| Right "TURNING VEHICLES" Yield "TQ" Pedestrians Sign (R10-15R) | N/A |

Signal Upgrade - Final Design

 Stantec Consulting Services Inc. 801 Jones Franklin Road-Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672	 750 N. Greenfield Pkwy, Garner, NC 27529 SCALE 0 40 1" = 40'	US 13 (Berkeley Boulevard) at SR 1003 (New Hope Road) Division 4 Wayne County Goldsboro PLAN DATE: March 2025 REVIEWED BY: J. Gallaway PREPARED BY: J. Hambricht REVIEWED BY: R M Muncey <table><tr><th>REVISIONS</th><th>INIT.</th><th>DATE</th></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>	REVISIONS	INIT.	DATE										DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED Signed by: Jason Gallaway 8/18/2025 SIG. INVENTORY NO. 04-0367
REVISIONS	INIT.	DATE													