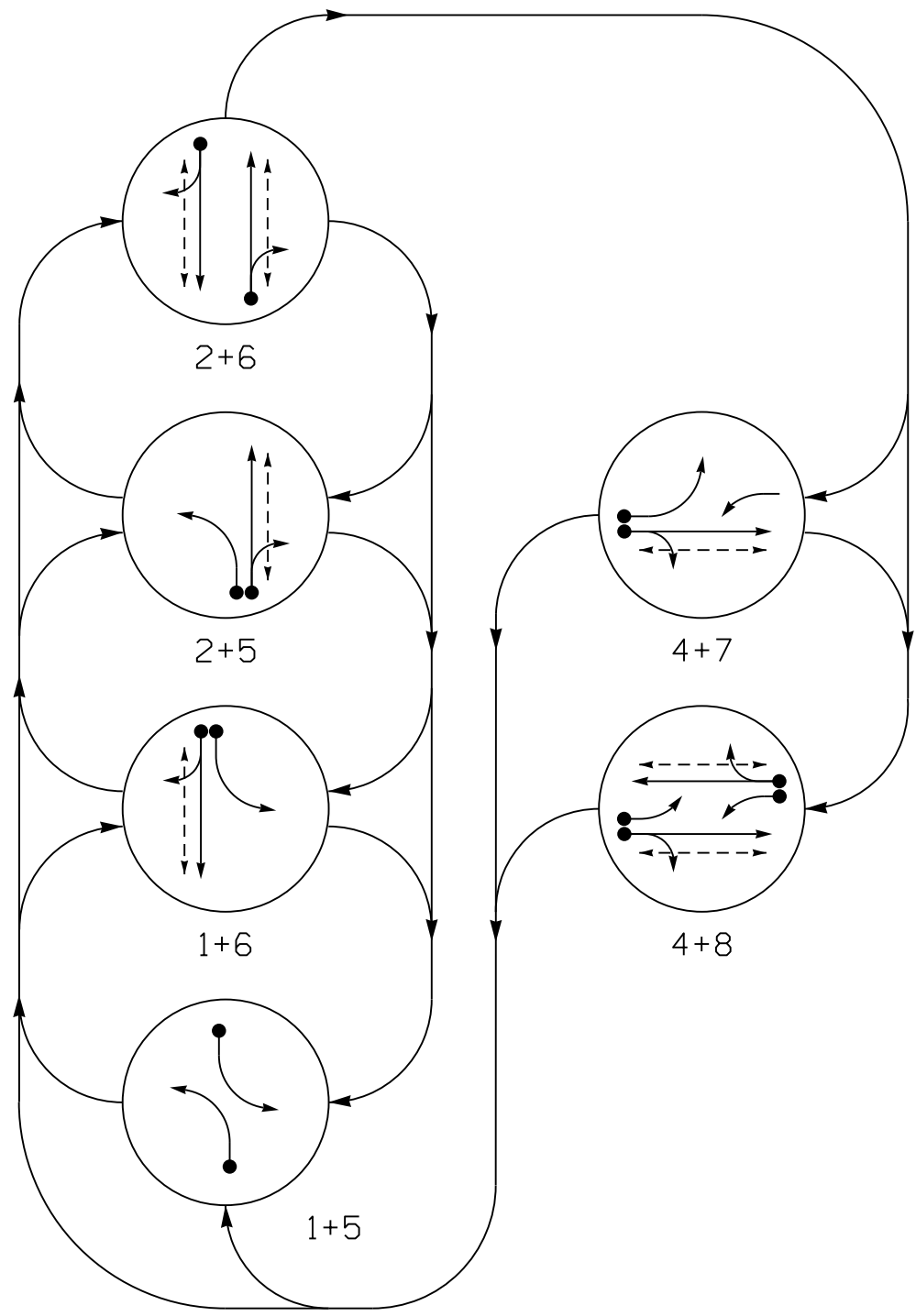


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

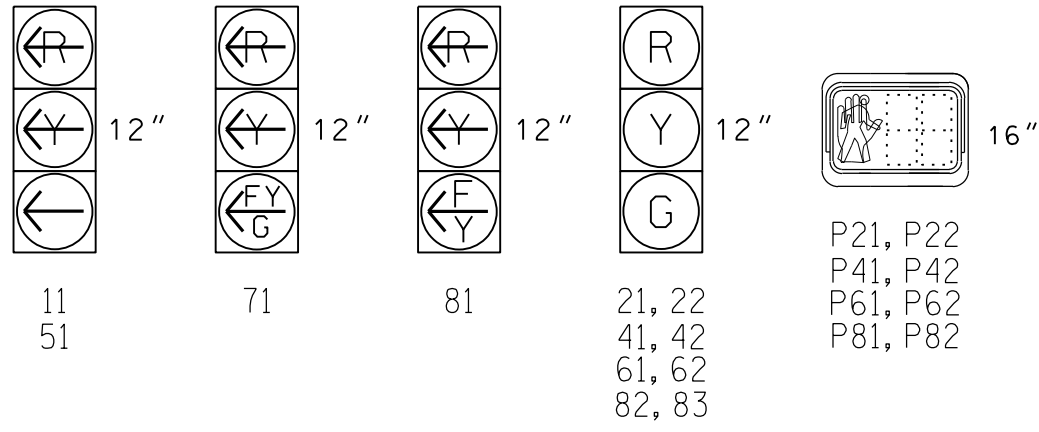
TABLE OF OPERATION

SIGNAL FACE	PHASE						
	1 + 5	1 + 6	2 + 5	2 + 6	4 + 7	4 + 8	FLASH
11	←	←	←	←	←	←	←
21, 22	R	R	G	G	R	R	R
41, 42	R	R	R	R	G	G	R
51	←	←	←	←	←	←	←
61, 62	R	G	R	G	R	R	R
71	←	←	←	←	←	←	←
81	←	←	←	←	←	←	←
82, 83	R	R	R	R	R	G	R
P21, P22	DW	DW	W	W	DW	DW	DRK
P41, P42	DW	DW	DW	DW	W	W	DRK
P61, P62	DW	W	DW	W	DW	DW	DRK
P81, P82	DW	DW	DW	DW	W	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.

⊗ = Bimodal Section



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART											
INDUCTIVE LOOPS				DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	URNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP NEW CARD
1A *	6X40	0	*	*	1	Y	Y	-	-	3	- *
2A *	6X6	70	*	*	2	Y	Y	-	-	-	- *
4A *	6X40	0	*	*	4	Y	Y	-	-	10	- *
5A *	6X40	0	*	*	5	Y	Y	-	-	3	- *
6A *	6X6	70	*	*	6	Y	Y	-	-	-	- *
7A *	6X40	0	*	*	7	Y	Y	-	-	15	- *
8A *	6X40	0	*	*	4	Y	Y	-	-	3	- *
8B *	6X40	0	*	*	8	Y	Y	-	-	3	- *
8B *	6X40	0	*	*	8	Y	Y	-	-	10	- *
S01*	6X6	+120	*	*	-	-	-	-	-	-	Y *

* Microwave Detection Zone

6 Phase Fully Actuated (Goldsboro City 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.
- Reposition existing signal heads numbered 42, 82, and 83.
- Set all detector units to presence mode.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions .
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Controller Asset: #0233.

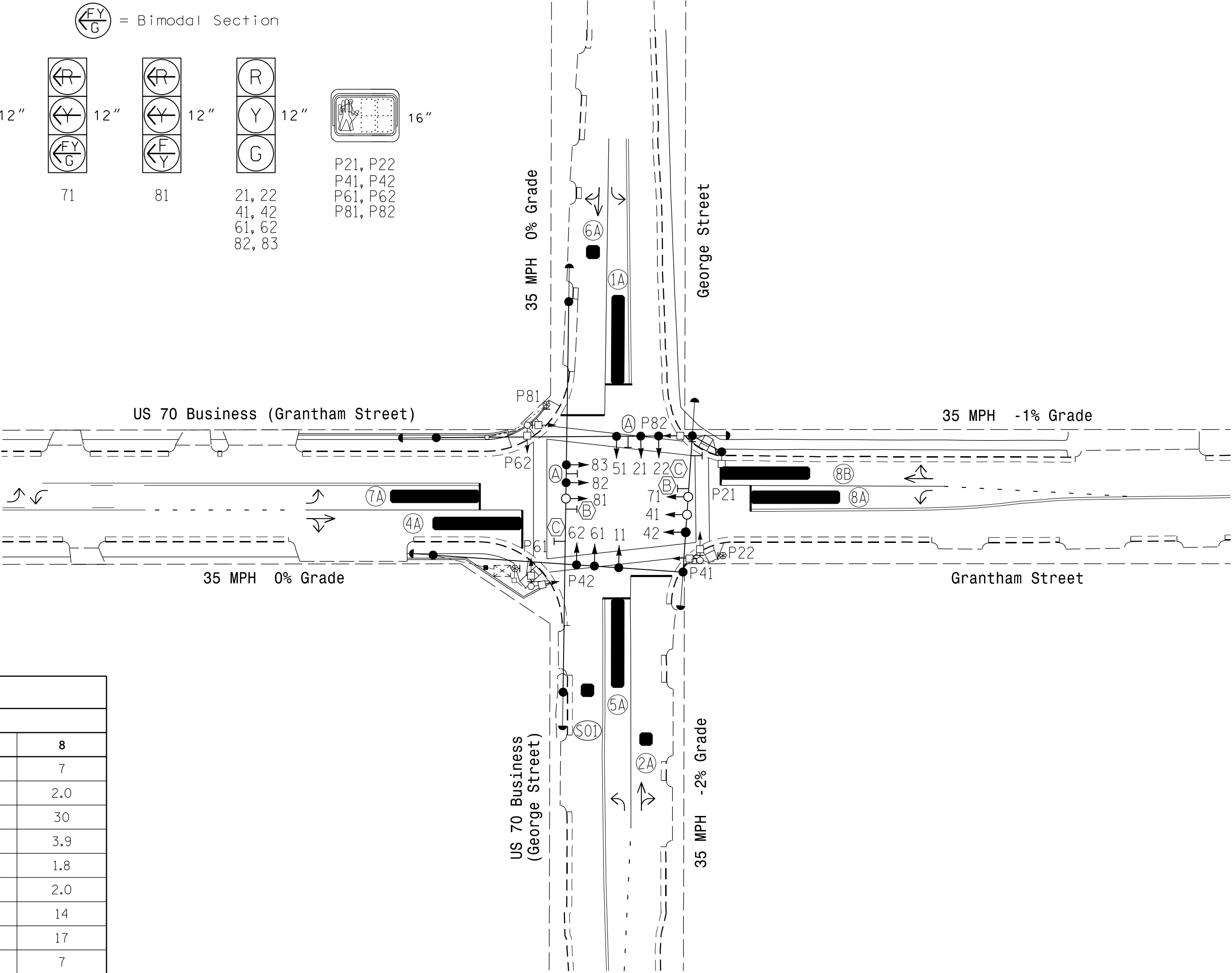
LEGEND

PROPOSED	EXISTING
○→ Traffic Signal Head	●→ N/A
●→ Modified Signal Head	→ N/A
→ Sign	→ N/A
□→ Pedestrian Signal Head	→ N/A
→ Push Button & Sign	→ N/A
○→ Signal Pole with Guy	●→ Signal Pole with Sidewalk Guy
→ Signal Pole with Sidewalk Guy	→ Inductive Loop Detector
⊗→ Controller & Cabinet	⊗→ Junction Box
□→ Junction Box	→ 2-in Underground Conduit
→ Right of Way	→ Directional Arrow
→ Directional Arrow	→ Non-Intrusive Detection Zone
⊗→ Type I Pushbutton Post	⊗→ Type II Signal Pedestal
○→ Type II Signal Pedestal	○→ Street Name Sign (D3-1)
⊗→ Left "TURNING VEHICLES" Yield "TO" Pedestrians Sign (R10-15L)	⊗→ Right "TURNING VEHICLES" Yield "TO" Pedestrians Sign (R10-15R)

OASIS 2070 TIMING CHART

FEATURE	PHASE						
	1	2	4	5	6	7	8
Min Green 1 *	7	10	7	7	10	7	7
Extension 1 *	2.0	3.0	2.0	2.0	3.0	2.0	2.0
Max Green 1 *	25	110	30	25	110	25	30
Yellow Clearance	3.0	4.0	3.9	3.0	4.0	3.0	3.9
Red Clearance	2.4	1.3	1.8	2.3	1.3	2.6	1.8
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	13	14	-	14	-	14
Don't Walk 1	-	9	18	-	14	-	17
Advanced Walk	-	6	7	-	7	-	7
Seconds Per Actuation *	-	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-	-
Dual Entry	-	-	ON	-	-	-	ON
Simultaneous Gap	ON	ON	ON	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.



Signal Upgrade - Final Design

Prepared for the Offices of:

Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section

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Division 4 Wayne County Goldsboro

PLAN DATE: February 2025 REVIEWED BY: C.L. Kalencik

PREPARED BY: M. Tindal REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

SEAL 040715
ENGINEER
COURTNEY L. KALENCIK

DocuSigned by:
Courtney L. Kalencik
SIGNATURE DATE
3/27/2025

SIG. INVENTORY NO. 04-0233