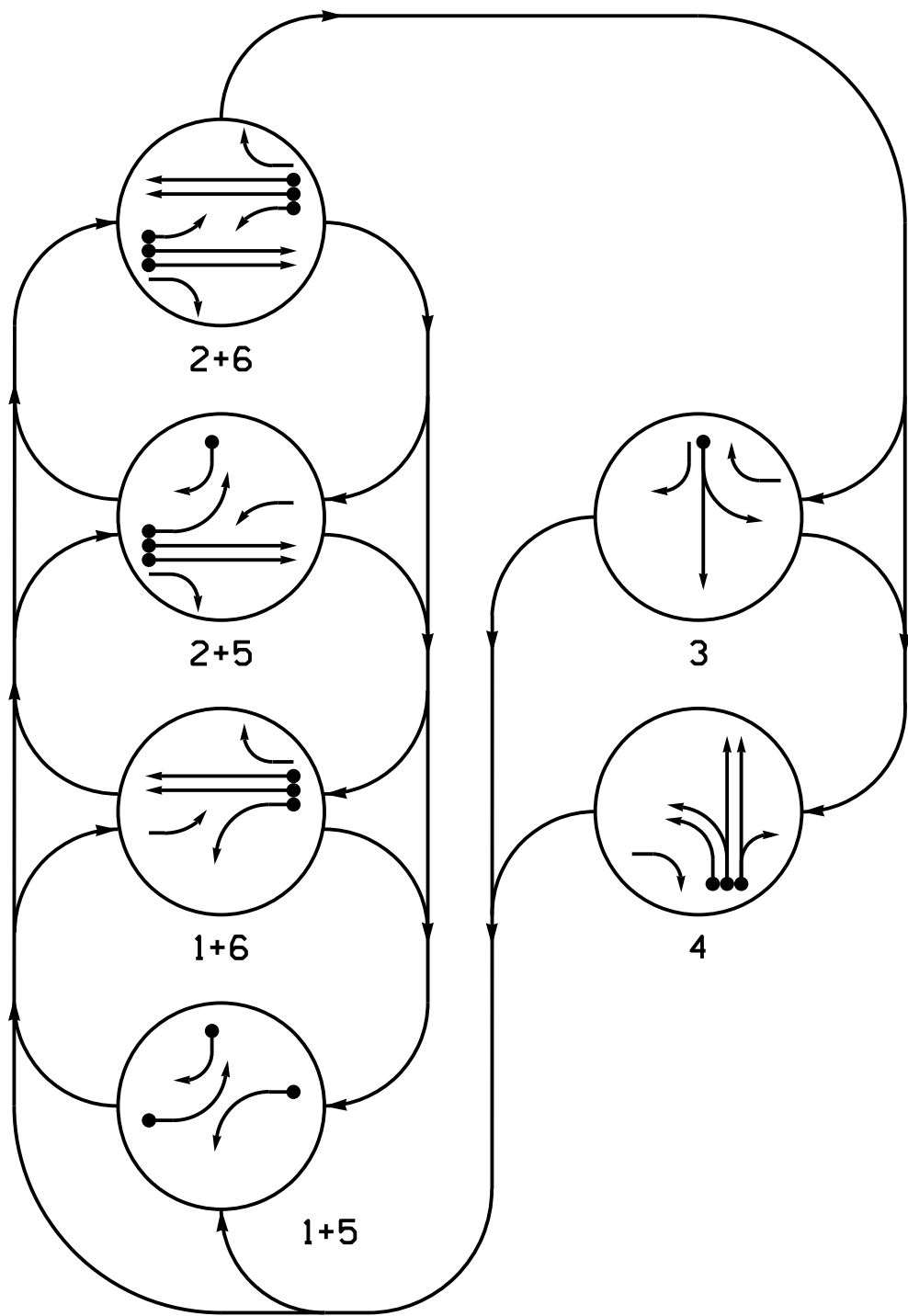


PROJECT REFERENCE NO.	SHEET NO.
U-5789	Sig.1.1

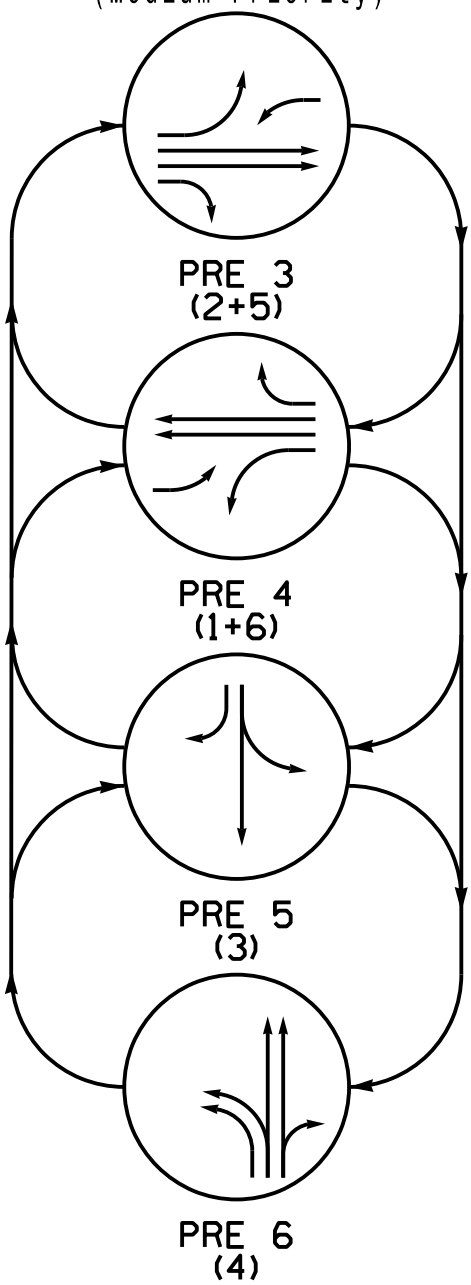
DEFAULT PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

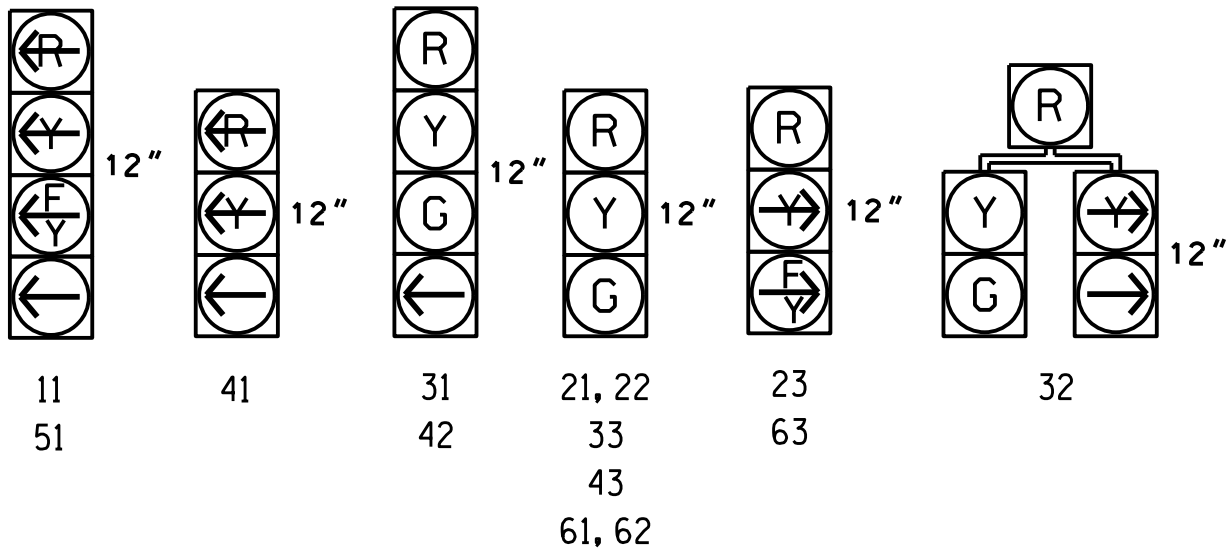
DEFAULT EV PREEMPT PHASES
(Medium Priority)



DEFAULT PHASING TABLE OF OPERATION													
SIGNAL FACE	PHASE												
	1 + 5	1 + 6	2 + 5	2 + 6	3	4	P R E 3	P R E 4	P R E 5	P R E 6	F L A S H		
11	---	---	F	F	R	R	F	---	R	R	R		
21,22	R	R	G	G	R	R	G	R	R	R	R		
23	R	R	F	F	R	F	F	R	R	R	R		
31	R	R	R	R	G	R	R	R	G	R	R		
32	R	R	R	R	G	R	R	R	G	R	R		
33	R	R	R	R	G	R	R	R	G	R	R		
41	R	R	R	R	---	R	R	R	---	R	R		
42	R	R	R	R	R	G	R	R	R	G	R		
43	R	R	R	R	R	G	R	R	R	G	R		
51	---	F	---	F	R	R	---	F	R	R	R		
61,62	R	G	R	G	R	R	R	G	R	R	R		
63	R	F	R	F	R	R	F	R	R	R	R		

SIGNAL FACE I.D.

All Heads L.E.D.

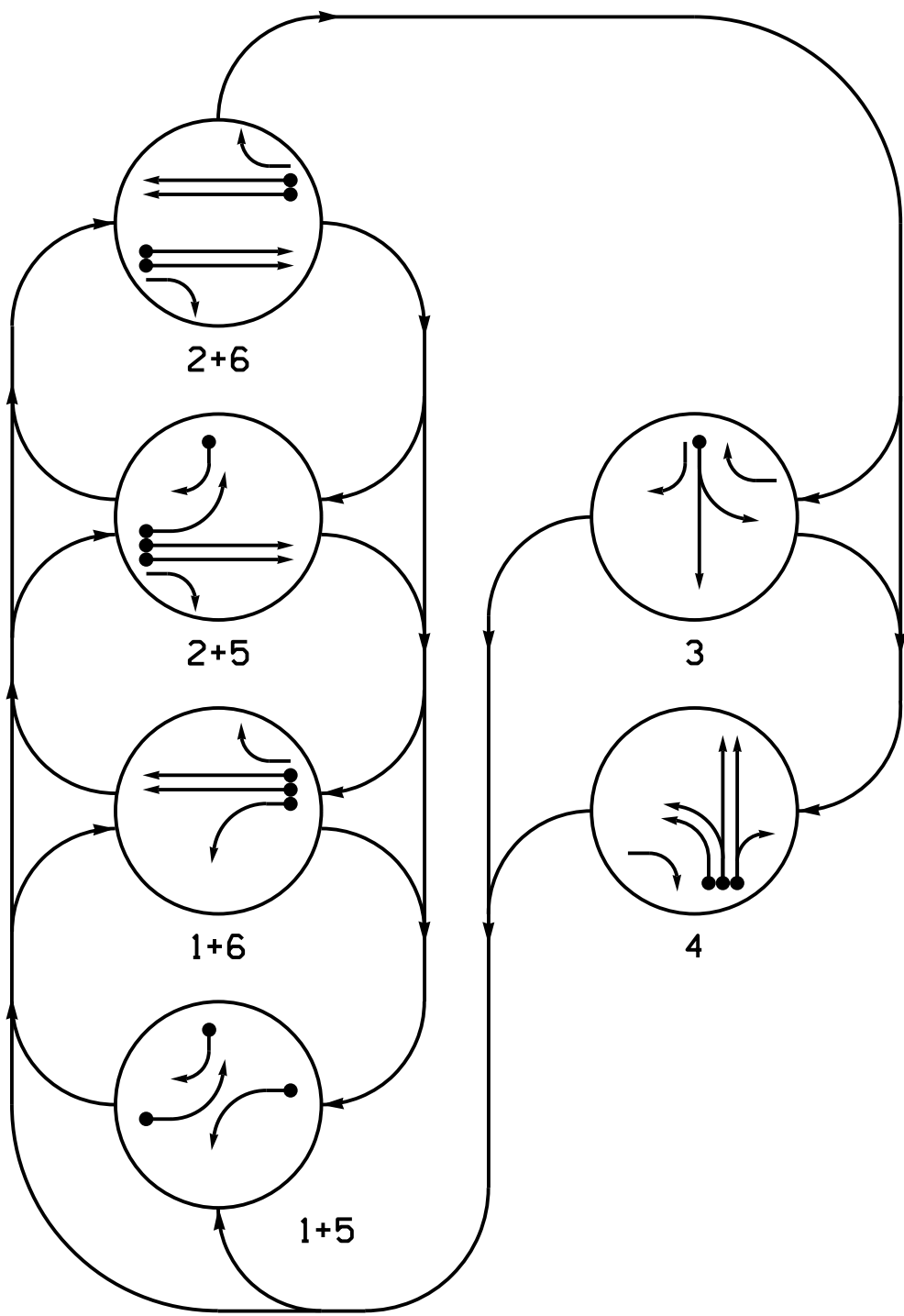


6 Phase
Fully Actuated
w/ EV Preempt
Jacksonville Signal System

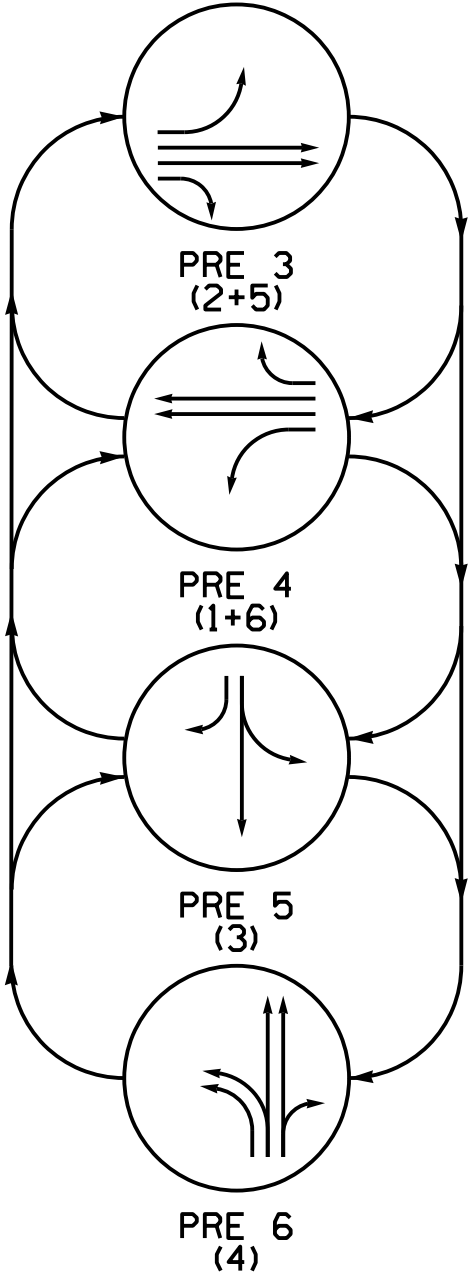
NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024, "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 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing unless otherwise shown.
- This intersection features an optical preemption system.Shown locations of optical detectors are conceptual only.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Signal system data: Controller Asset # 0822.

ALTERNATE PHASING DIAGRAM



ALTERNATE EV PREEMPT PHASES
(Medium Priority)



ALTERNATE PHASING TABLE OF OPERATION													
SIGNAL FACE	PHASE												
	1 + 5	1 + 6	2 + 5	2 + 6	3	4	P R E 3	P R E 4	P R E 5	P R E 6	F L A S H		
11	---	---	R	R	R	R	---	R	R	R	R		
21,22	R	R	G	G	R	R	G	R	R	R	R		
23	R	R	F	F	R	F	F	R	R	R	R		
31	R	R	R	R	G	R	R	R	G	R	R		
32	R	R	R	R	G	R	R	R	G	R	R		
33	R	R	R	R	G	R	R	R	G	R	R		
41	R	R	R	R	---	R	R	R	---	R	R		
42	R	R	R	R	R	G	R	R	R	G	R		
43	R	R	R	R	R	G	R	R	R	G	R		
51	---	R	---	R	R	R	---	R	R	R	R		
61,62	R	G	R	G	R	R	R	G	R	R	R		
63	R	F	R	F	R	R	F	R	R	R	R		

Temporary Design;(TMP 4-5,10-11,16,19-20,25-26,31-32)
Signal Upgrade - Sheet 2 of 2

Project #: 230907

DAVENPORT

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NCBELS FIRM LICENSE NO. C-2522

Prepared for:
TRANSPORTATION MOBILITY AND SAFETY DIVISION
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
Signal Design Section

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE
0 40
1"=40'

NC 53 (Western Boulevard)
at
SR 2714 (Jacksonville Parkway)/
Gateway North

Division 3 Onslow County Jacksonville

PLAN DATE: May 2025 REVIEWED BY: L. Boyer

PREPARED BY: J. Dollarhite RKA PROJ. NO.:

REVISIONS

INIT. DATE

SIGNATURE DATE

SIG. INVENTORY NO. 03-0822T

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
030912
ENGINEER
LORI M. BOYER

Signed by:
Lori M. Boyer 07/07/2025

SIGNATURE DATE

SIG. INVENTORY NO. 03-0822T