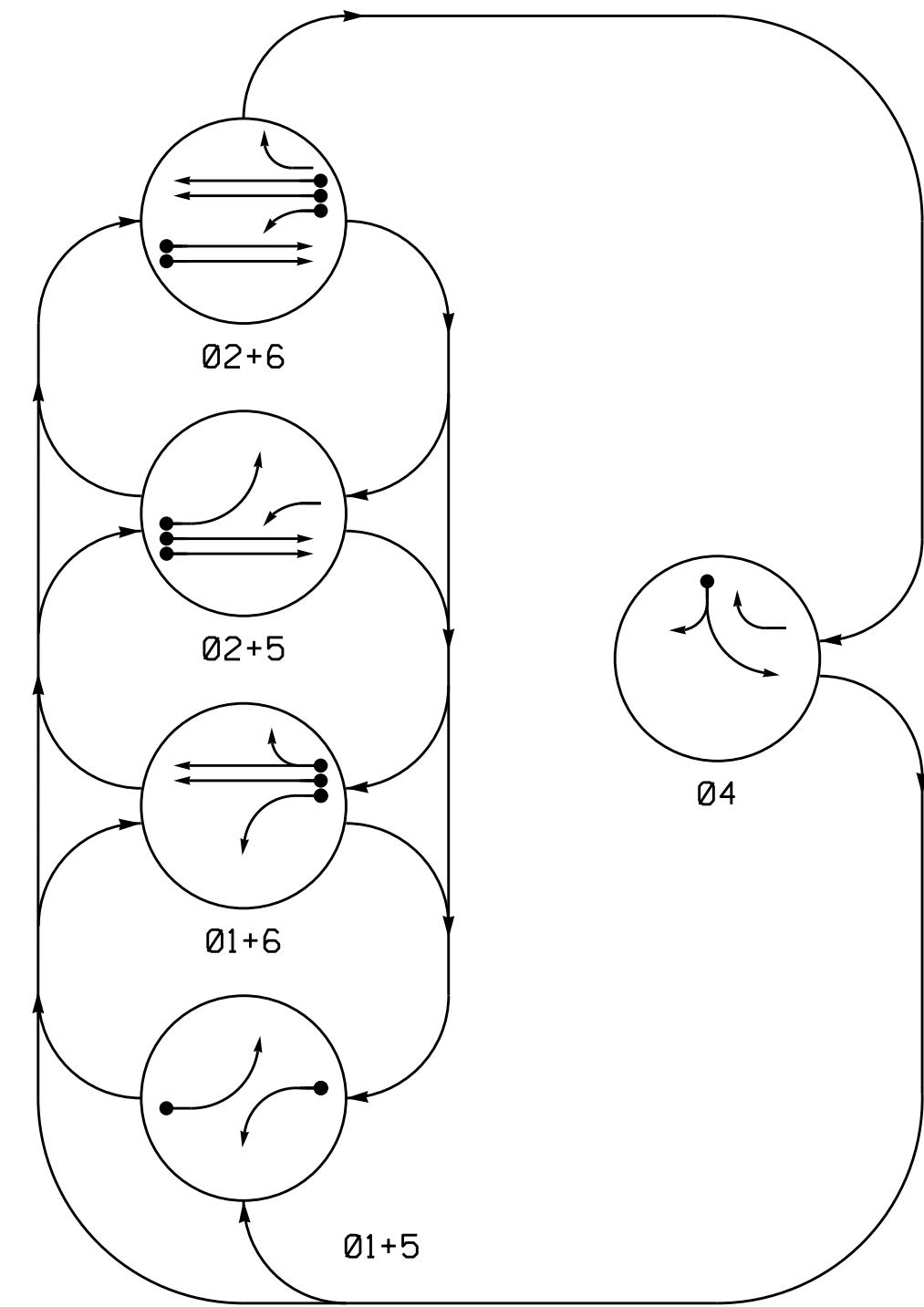


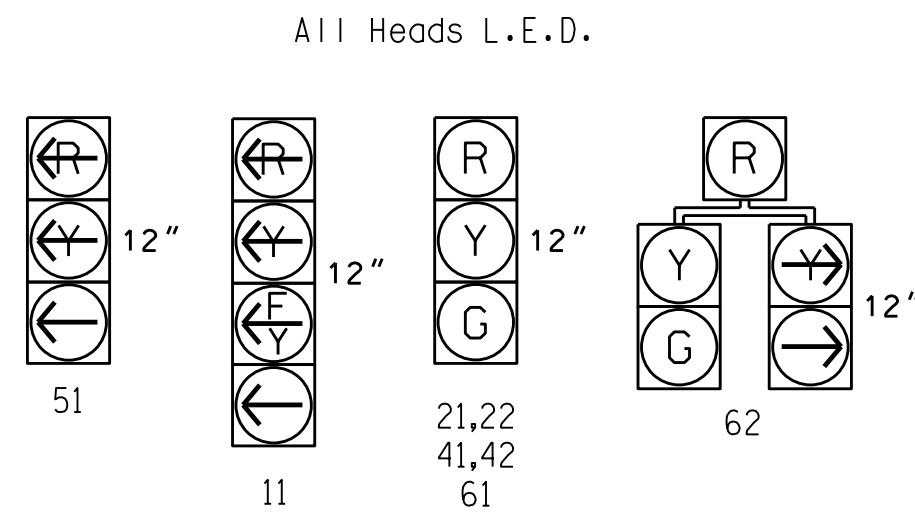
DEFAULT PHASING DIAGRAM



DEFAULT TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04	F L
11	---	---	---	---	---	---
51	---	---	---	---	---	---
21,22	R	R	G	G	R	Y
41,42	R	R	R	R	G	R
61	R	G	R	G	R	Y
62	R	G	R	G	Y	---

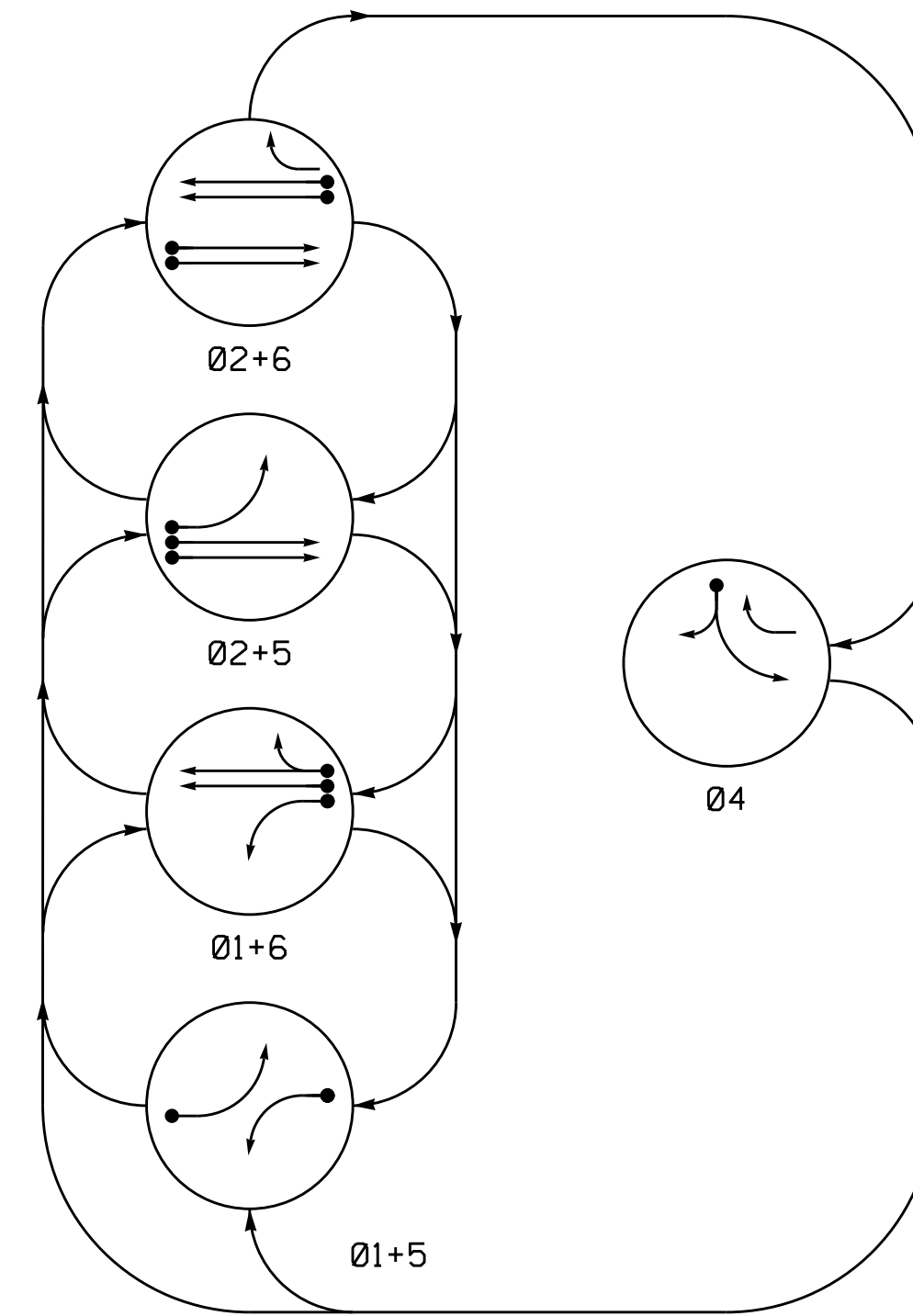
SIGNAL FACE I.D.



PHASING DIAGRAM DETECTION LEGEND

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

ALTERNATE PHASING DIAGRAM



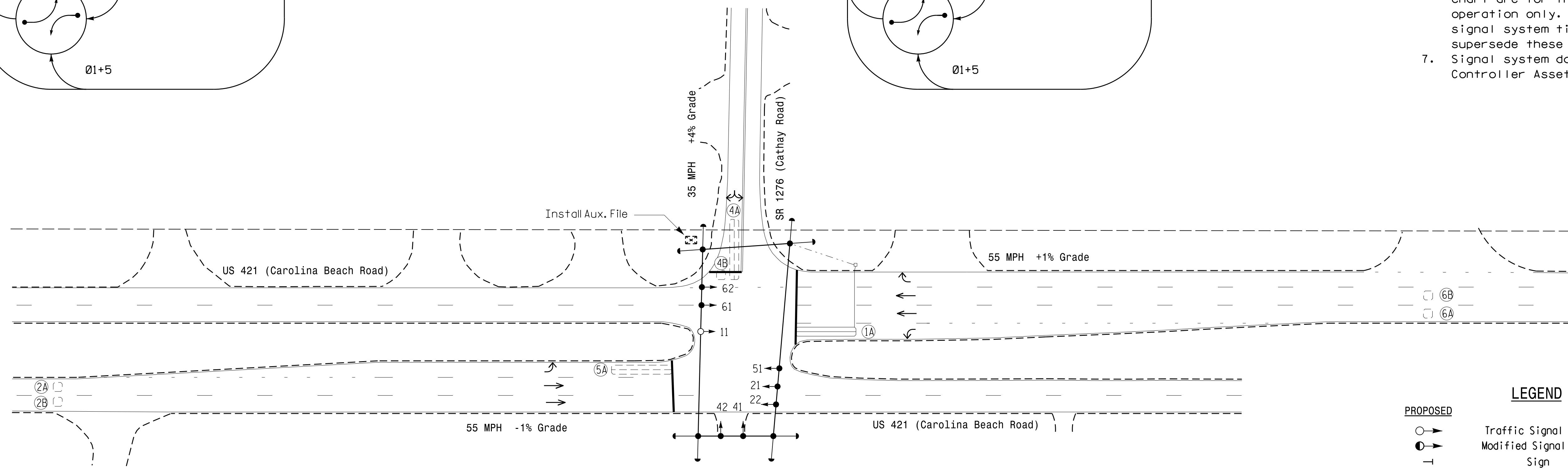
ALTERNATE TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04	F L
11	---	---	---	---	---	---
51	---	---	---	---	---	---
21,22	R	R	G	G	R	Y
41,42	R	R	R	R	G	R
61	R	G	R	G	R	Y
62	R	G	R	G	Y	---

5 Phase Fully Actuated Wilmington Signal System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Disable Backup Protect for phase 2.
- Phase 1 and/or phase 5 may be logged.
- Set all detector units to presence mode.
- 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 #0676.



OASIS 2070 TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	
Min Green 1 *	7	14	7	7	14	
Extension 1 *	2.0	6.0	3.0	2.0	6.0	
Max Green 1 *	15	125	30	30	125	
Yellow Clearance	3.0	5.3	3.0	3.0	5.3	
Red Clearance	2.8	1.0	2.8	3.3	1.0	
Red Revert	2.0	2.0	2.0	2.0	2.0	
Walk 1 *	-	-	-	-	-	
Don't Walk 1	-	-	-	-	-	
Seconds Per Actuation *	-	1.5	-	-	1.5	
Max Variable Initial *	-	46	-	-	46	
Time Before Reduction *	-	30	-	-	30	
Time To Reduce *	-	50	-	-	50	
Minimum Gap	-	3.4	-	-	3.4	
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	
Dual Entry	-	-	-	-	-	
Simultaneous Gap	ON	ON	ON	ON	ON	

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	STRETCH FULL TIME DELAY	DELAY TIME			
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	*10	-	Y
2A	6X6	420	5	-	2	Y	Y	-	-	3	-	Y
2B	6X6	420	5	-	2	Y	Y	-	-	-	-	-
4A	6X40	+5	2-4-2	-	4	Y	Y	-	-	5	-	-
4B	6X6	+5	2-4-2	-	4	Y	Y	-	-	15	-	-
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	-	-	-
6A	6X6	420	5	-	6	Y	Y	-	-	-	-	-
6B	6X6	420	5	-	6	Y	Y	-	-	-	-	-

- LEGEND**
- | | | | |
|-----|---|-----|---|
| ○→ | PROPOSED Traffic Signal Head | ●→ | EXISTING Traffic Signal Head |
| ○→ | PROPOSED Modified Signal Head | N/A | EXISTING Modified Signal Head |
| ○→ | PROPOSED Sign | ○→ | EXISTING Sign |
| ○→ | PROPOSED Pedestrian Signal Head With Push Button & Sign | ○→ | EXISTING Pedestrian Signal Head With Push Button & Sign |
| ○→ | PROPOSED Signal Pole with Guy | ○→ | EXISTING Signal Pole with Guy |
| ○→ | PROPOSED Signal Pole with Sidewalk Guy | ○→ | EXISTING Signal Pole with Sidewalk Guy |
| □ | PROPOSED Inductive Loop Detector | □ | EXISTING Inductive Loop Detector |
| □ | PROPOSED Controller & Cabinet | □ | EXISTING Controller & Cabinet |
| □ | PROPOSED Junction Box | □ | EXISTING Junction Box |
| --- | PROPOSED 2-in Underground Conduit | --- | EXISTING 2-in Underground Conduit |
| --- | PROPOSED Right of Way | --- | EXISTING Right of Way |
| → | PROPOSED Directional Arrow | → | EXISTING Directional Arrow |

* Disable Delay During Alternate Phasing Operation.
* Disable Phase 6 Call for Loop 1A during Alternate Phasing.

Signal Upgrade

US 421 (Carolina Beach Road) at SR 1276 (Cathay Road)

Division 3 New Hanover S. of Wilmington

PLAN DATE: July 2015 REVIEWED BY: JG

PREPARED BY: PLA REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE 0 40 1"=40'

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER PAMELA L. ALEXANDER SEAL 023489

DocuSigned by: P. Alexander 7/22/15

SIG. INVENTORY NO. 03-0676

31-JUL-2015 14:13
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* 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.