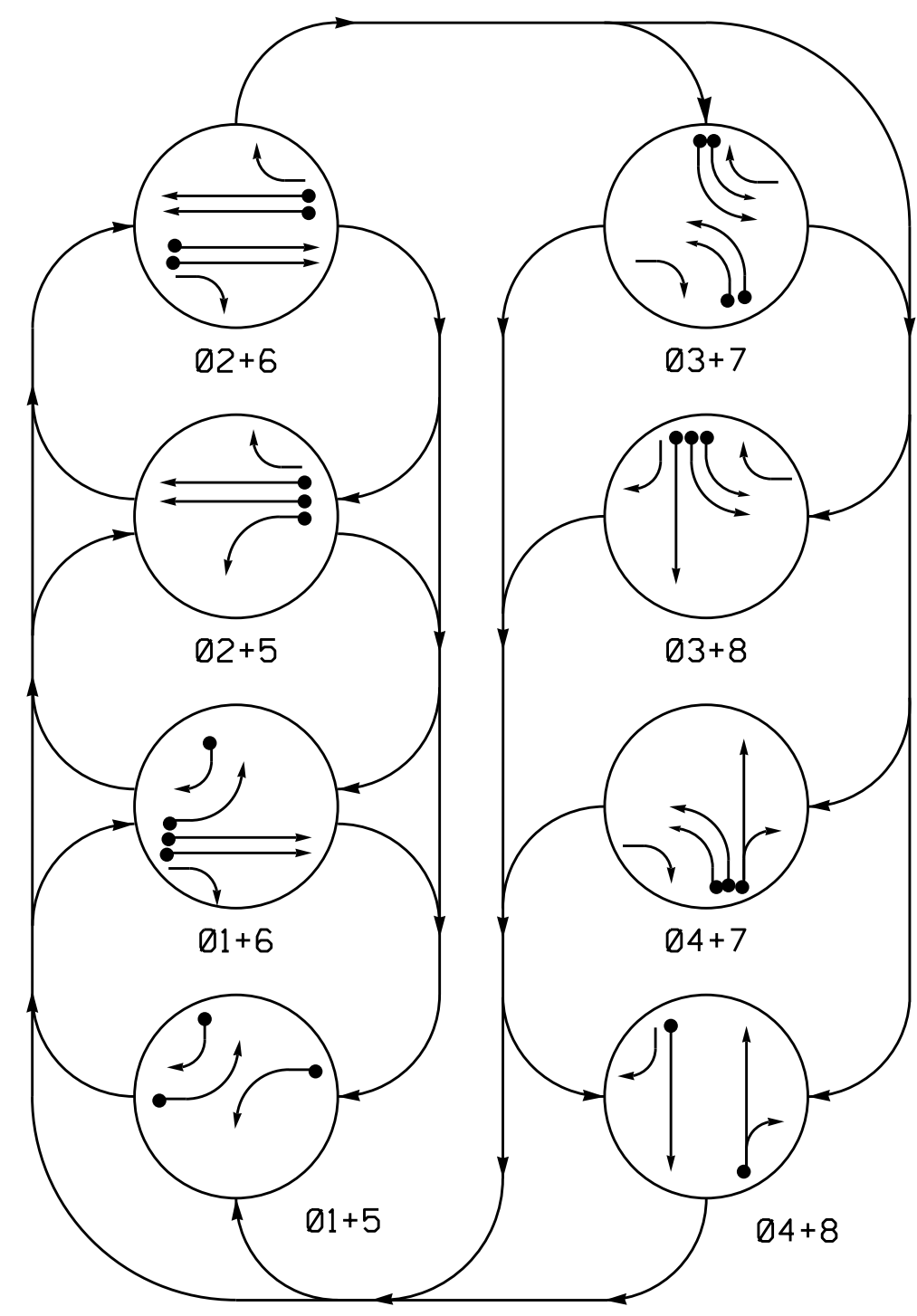


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

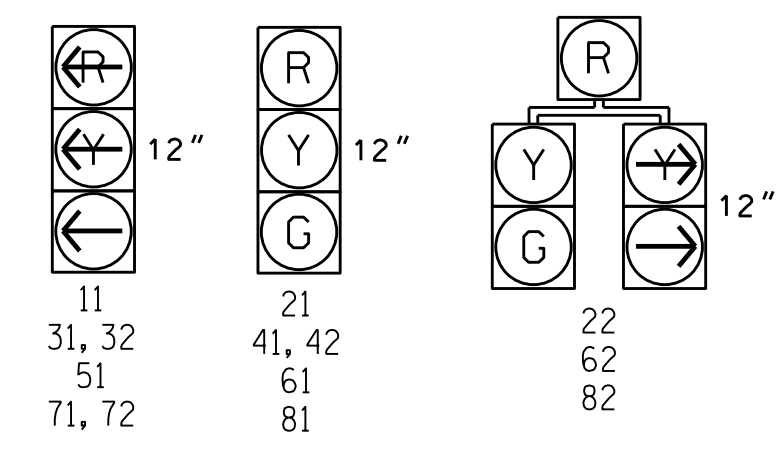
- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ←- - - PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11	---	---	---	---	---	---	---	---
21	R	R	G	G	R	R	R	Y
22	R	R	G	G	R	R	R	Y
31, 32	---	---	---	---	---	---	---	---
41, 42	R	R	R	R	R	R	G	R
51	---	---	---	---	---	---	---	---
61	R	G	R	G	R	R	R	Y
62	R	G	R	G	R	R	R	Y
71, 72	---	---	---	---	---	---	---	---
81	R	R	R	R	R	G	R	G
82	R	R	R	R	R	G	R	G

SIGNAL FACE I.D.

All Heads L.E.D.



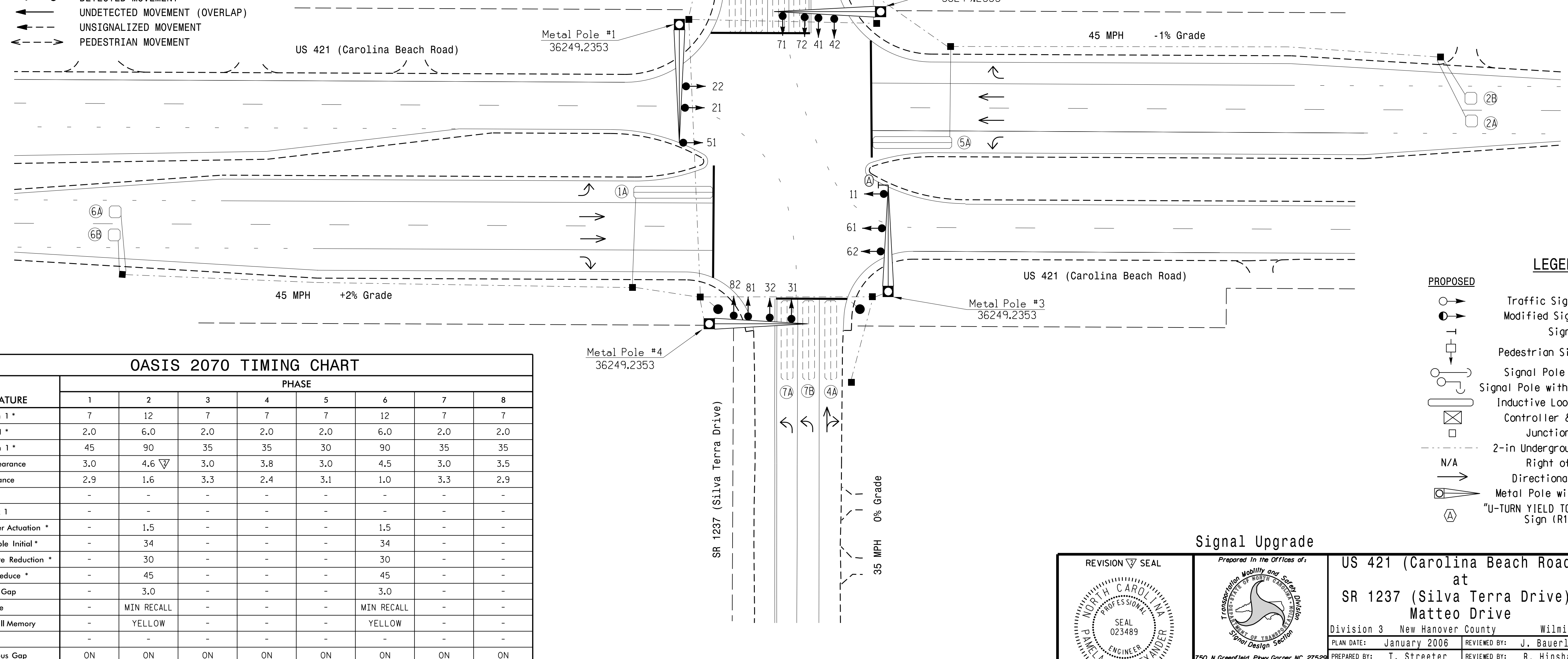
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6x40	0	2-4-2	Y	1	Y	Y	-	-	-	-	-
1B	6x40	0	2-4-2	-	1	Y	Y	-	-	15	-	-
2A	6x6	300	4	Y	2	Y	Y	-	-	-	-	-
2B	6x6	300	4	Y	2	Y	Y	-	-	-	-	-
3A	6x40	0	2-4-2	-	3	Y	Y	-	-	3	-	-
3B	6x40	0	2-4-2	-	3	Y	Y	-	-	-	-	-
4A	6x40	0	2-4-2	-	4	Y	Y	-	-	10	-	-
5A	6x40	0	2-4-2	Y	5	Y	Y	-	-	-	-	-
6A	6x6	300	6	Y	6	Y	Y	-	-	-	-	-
6B	6x6	300	6	Y	6	Y	Y	-	-	-	-	-
7A	6x40	0	2-4-2	-	7	Y	Y	-	-	3	-	-
7B	6x40	0	2-4-2	-	7	Y	Y	-	-	-	-	-
8A	6x40	0	2-4-2	-	8	Y	Y	-	-	-	-	-

8 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.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- 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 #0635.



OASIS 2070 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max Green 1 *	45	90	35	35	30	90	35	35
Yellow Clearance	3.0	4.6	3.0	3.8	3.0	4.5	3.0	3.5
Red Clearance	2.9	1.6	3.3	2.4	3.1	1.0	3.3	2.9
Walk 1 *	-	-	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-	-	-
Seconds Per Actuation *	-	1.5	-	-	-	1.5	-	-
Max Variable Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	30	-	-	-	30	-	-
Time To Reduce *	-	45	-	-	-	45	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	-	-	-	-	-
Simultaneous Gap	ON	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.

LEGEND

- | PROPOSED | EXISTING |
|--|----------------------------|
| ○→ Traffic Signal Head | ●→ N/A |
| ●→ Modified Signal Head | ○→ Sign |
| ○→ Pedestrian Signal Head | ○→ Signal Pole with Guy |
| ○→ Signal Pole with Sidewalk Guy | ○→ Inductive Loop Detector |
| □→ Controller & Cabinet | □→ Junction Box |
| --- 2-in Underground Conduit | --- Right of Way |
| → Directional Arrow | → Metal Pole with Mastarm |
| ⊙ "U-TURN YIELD TO RIGHT TURN" Sign (R10-16) | ⊙ |

Signal Upgrade

REVISION SEAL

Prepared in the Offices of:

US 421 (Carolina Beach Road) at SR 1237 (Silva Terra Drive) / Matteo Drive

Division 3 New Hanover County Wilmington

PLAN DATE: January 2006 REVIEWED BY: J. Bauerlein

PREPARED BY: T. Streeter REVIEWED BY: R. Hinshaw

REVISIONS

NO.	DESCRIPTION	INIT.	DATE
1	Revise phasing orientation and set phase 2 & 6 loops for 45 MPH. Revise Clearance Times. Added Sign A.	RJS	3-1-07
2	Install loops and revise phase 2 yellow loop.	plc	7/23/15

Not a certified document as to the Original Document but Only as to the Revisions - This document originally issued and sealed by J.S. Bauerlein, PE, #5450, on 5/23/06. This document is only certified as to the revisions.

SIG. INVENTORY NO. 03-0653

30-JUL-2016 14:53
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