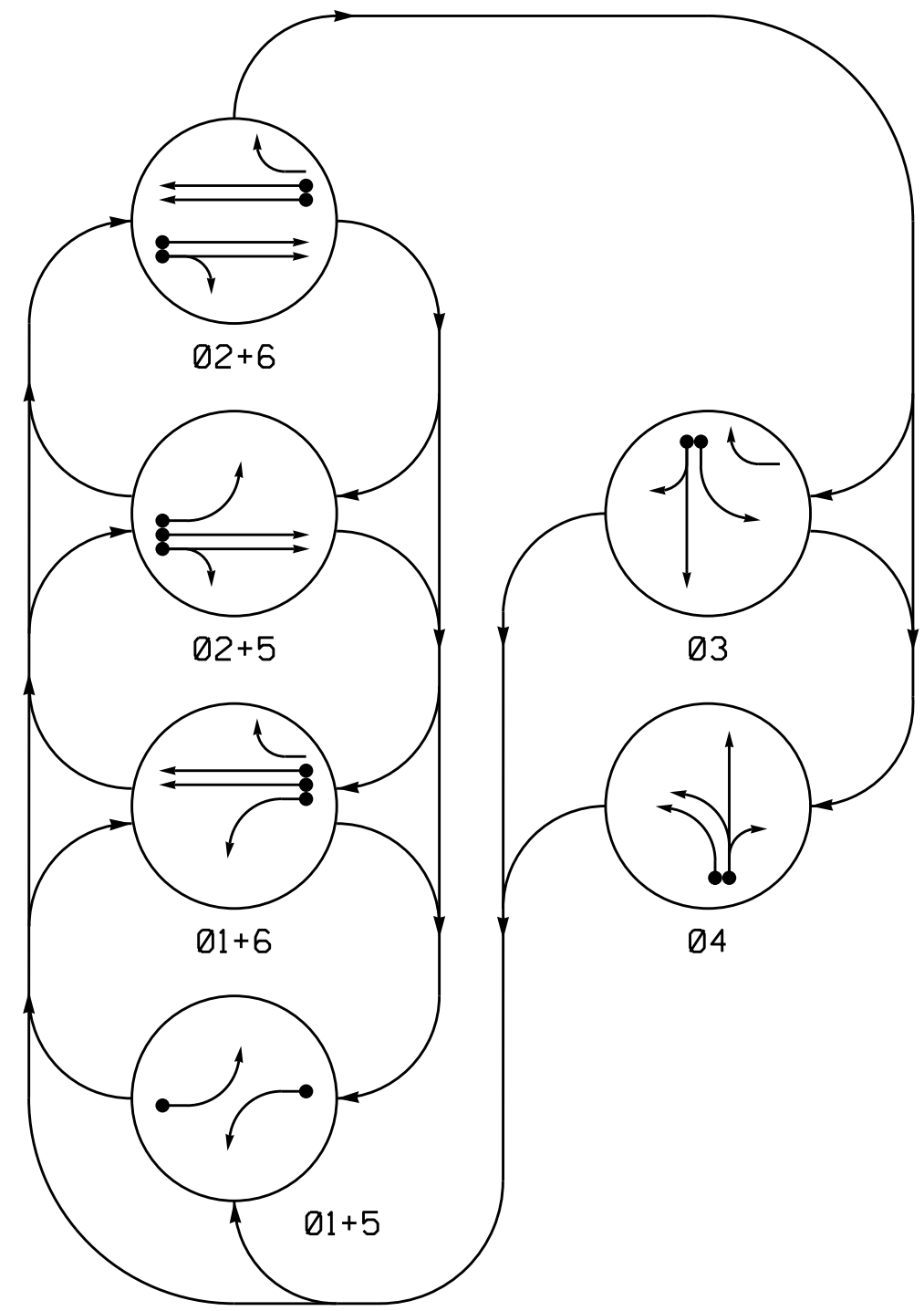


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

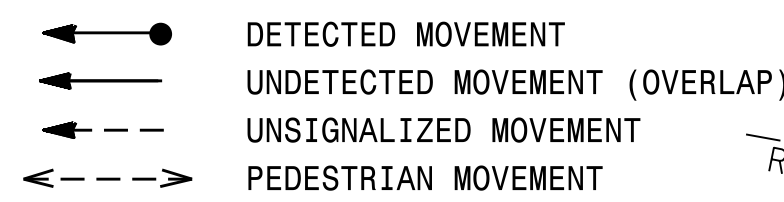
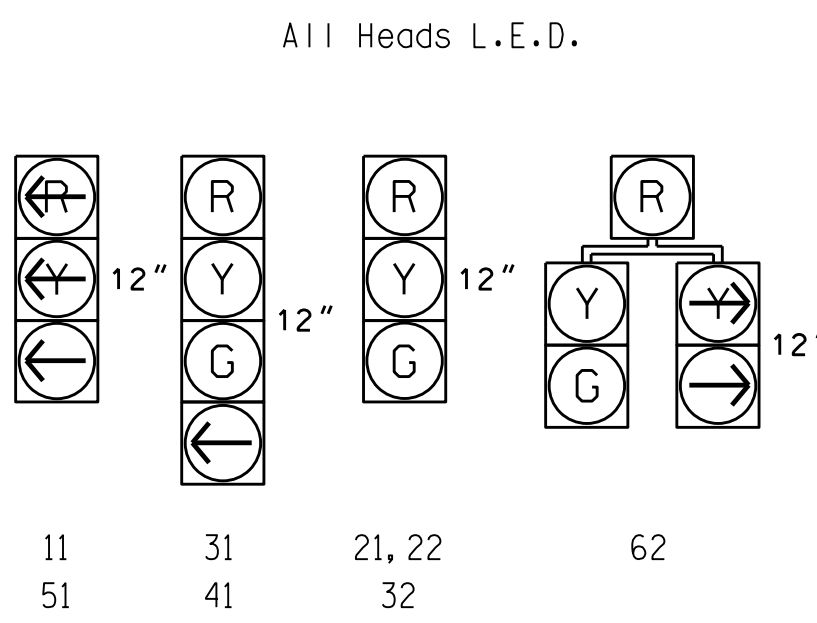


TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	03	04
11	-	-	-	-	-	-
21, 22	R	R	G	G	R	R
31	R	R	R	R	G	R
32	R	R	R	R	G	R
41	R	R	R	R	R	G
42	R	R	R	R	R	G
51	-	-	-	-	-	-
61	R	G	R	G	R	R
62	R	G	R	G	R	R

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

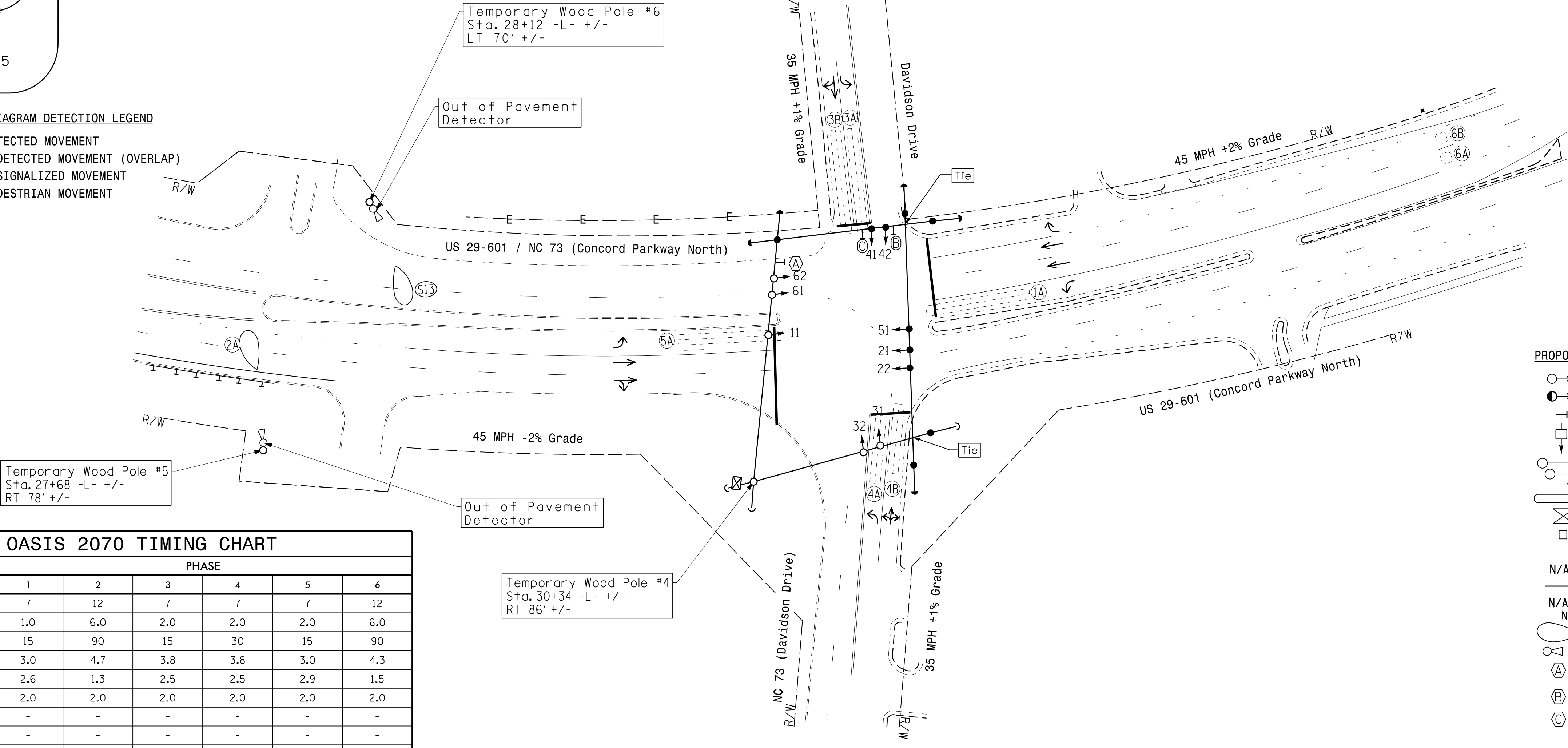
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING							
				NEW LOOP	PHASE	CALLING EXTENSION	STRETCH TIME	DELAY TIME	SYSTEM LOOP NEW CARD		
1A	6X60	+5	2-4-2	Y	1	Y	Y	-	-	-	Y
2A	6X18	300	*	-	2	Y	Y	-	-	-	-
3A	6X60	+5	2-4-2	-	3	Y	Y	-	-	3	Y
3B	6X60	+5	2-4-2	-	3	Y	Y	-	-	10	Y
4A	6X60	0	2-4-2	-	4	Y	-	-	-	3	Y
4B	6X60	+5	2-4-2	-	4	Y	Y	-	-	10	Y
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	-	Y
6A	6X6	300	EXIST	-	6	Y	Y	-	-	-	Y
6B	6X6	300	EXIST	-	6	Y	Y	-	-	-	Y
S13	6X18	+300	*	Y	-	-	-	-	-	-	Y

* Microwave Detection Zone

6 Phase Fully Actuated Concord / Kannapolis CLS-Zone 2

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. The order of phase 3 and phase 4 may be reversed.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
8. Closed loop system data: Controller Asset # 0417.

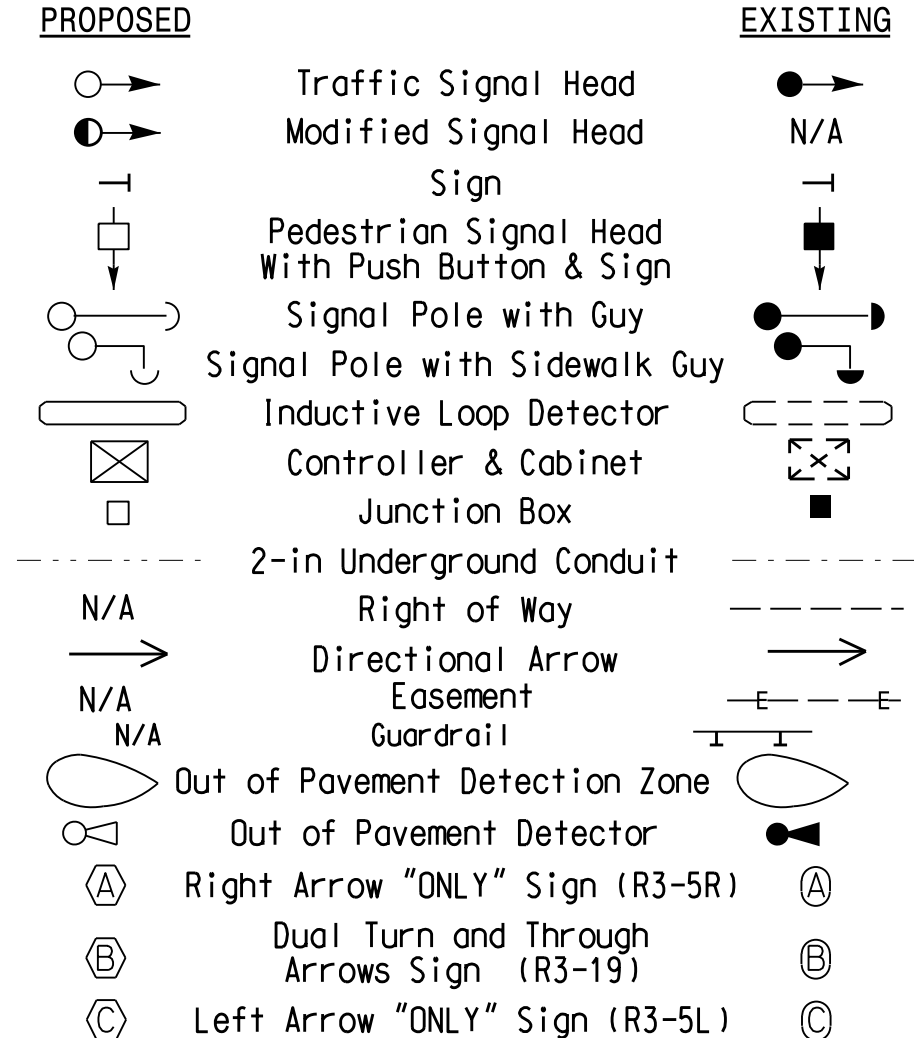


OASIS 2070 TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1*	7	12	7	7	7	12
Extension 1	1.0	6.0	2.0	2.0	2.0	6.0
Max Green 1*	15	90	15	30	15	90
Yellow Clearance	3.0	4.7	3.8	3.8	3.0	4.3
Red Clearance	2.6	1.3	2.5	2.5	2.9	1.5
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1*	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation*	-	2.0	-	-	-	1.5
Max Variable Initial*	-	34	-	-	-	34
Time Before Reduction*	-	15	-	-	-	15
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

* 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



Signal Upgrade Temporary Design-1 TCP Phase I

US 29-601 / NC 73 (Concord Parkway North) at NC 73 (Davidson Drive) / Davidson Drive

Division 10 Cabarrus County Concord

PLAN DATE: November 2014 REVIEWED BY: T. Williams

PREPARED BY: M. Mahbooba REVIEWED BY:

SCALE 0 40 1"=40'

750 N. Greenfield Pkwy, Garner, NC 27529

Seal of J. Williams, Professional Engineer, License # 024393, State of North Carolina.

12/15/2014

SIG. INVENTORY NO. 10-0417 TI

15-JUL-2014 12:25
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