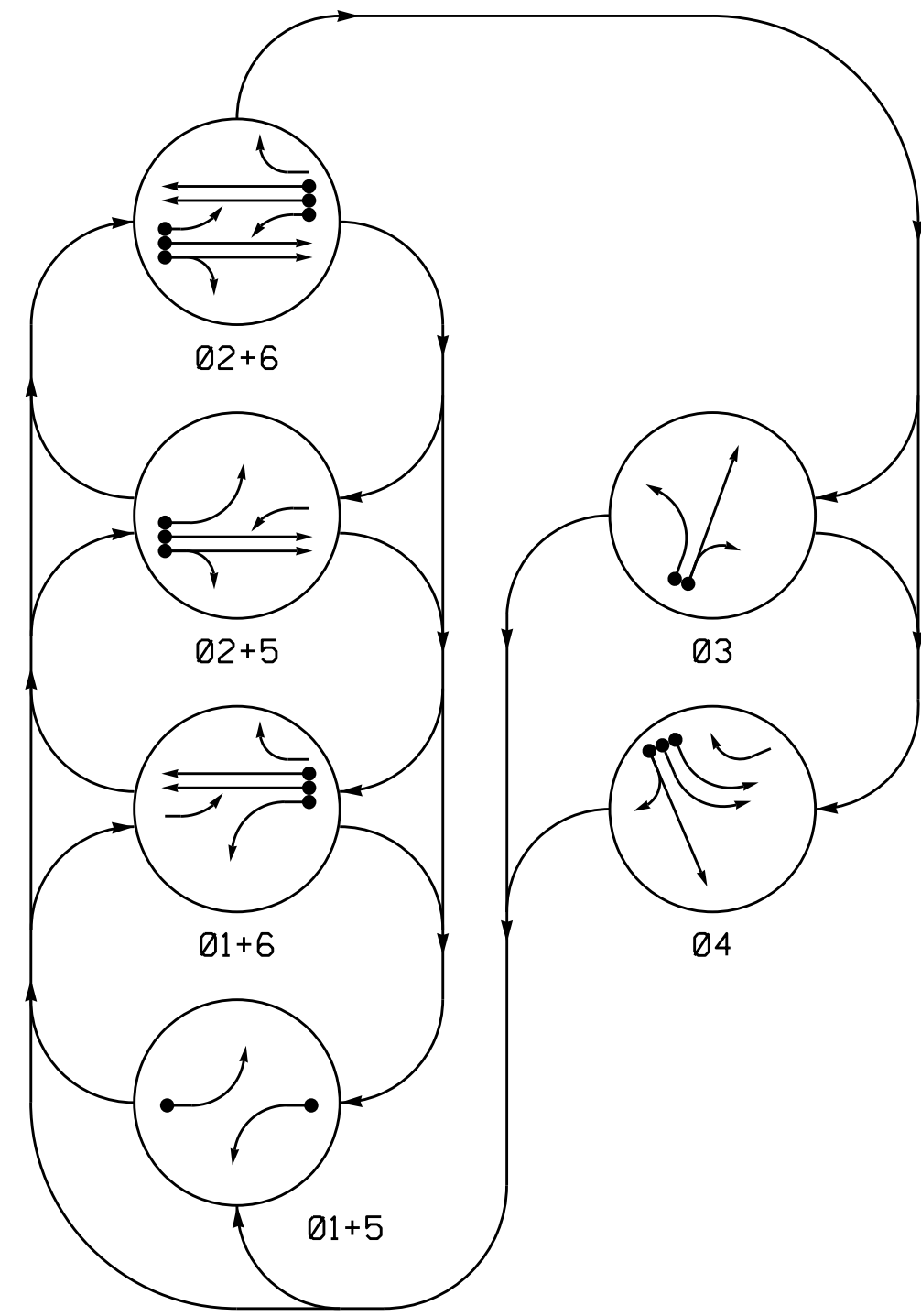


PHASING DIAGRAM

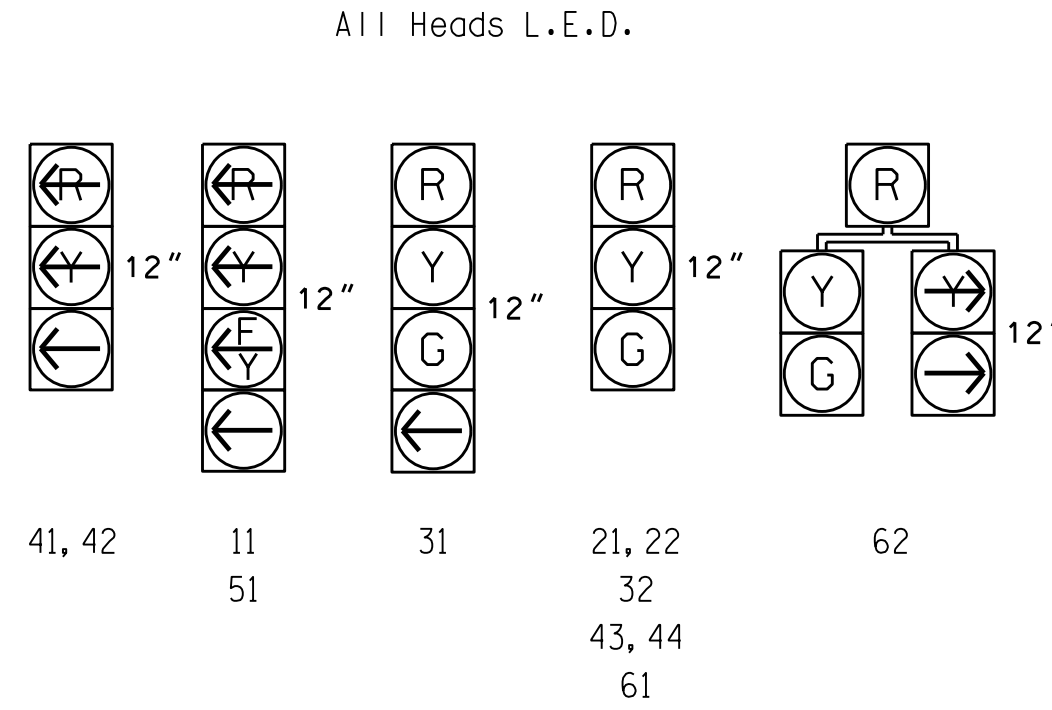


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	03	04
11	---	---	---	---	---	---
21, 22	R	R	G	G	R	Y
31	R	R	R	R	G	R
32	R	R	R	R	G	R
41, 42	---	---	---	---	---	---
43, 44	R	R	R	R	G	R
51	---	---	---	---	---	---
61	R	G	R	G	R	Y
62	R	G	R	G	R	Y

SIGNAL FACE I.D.



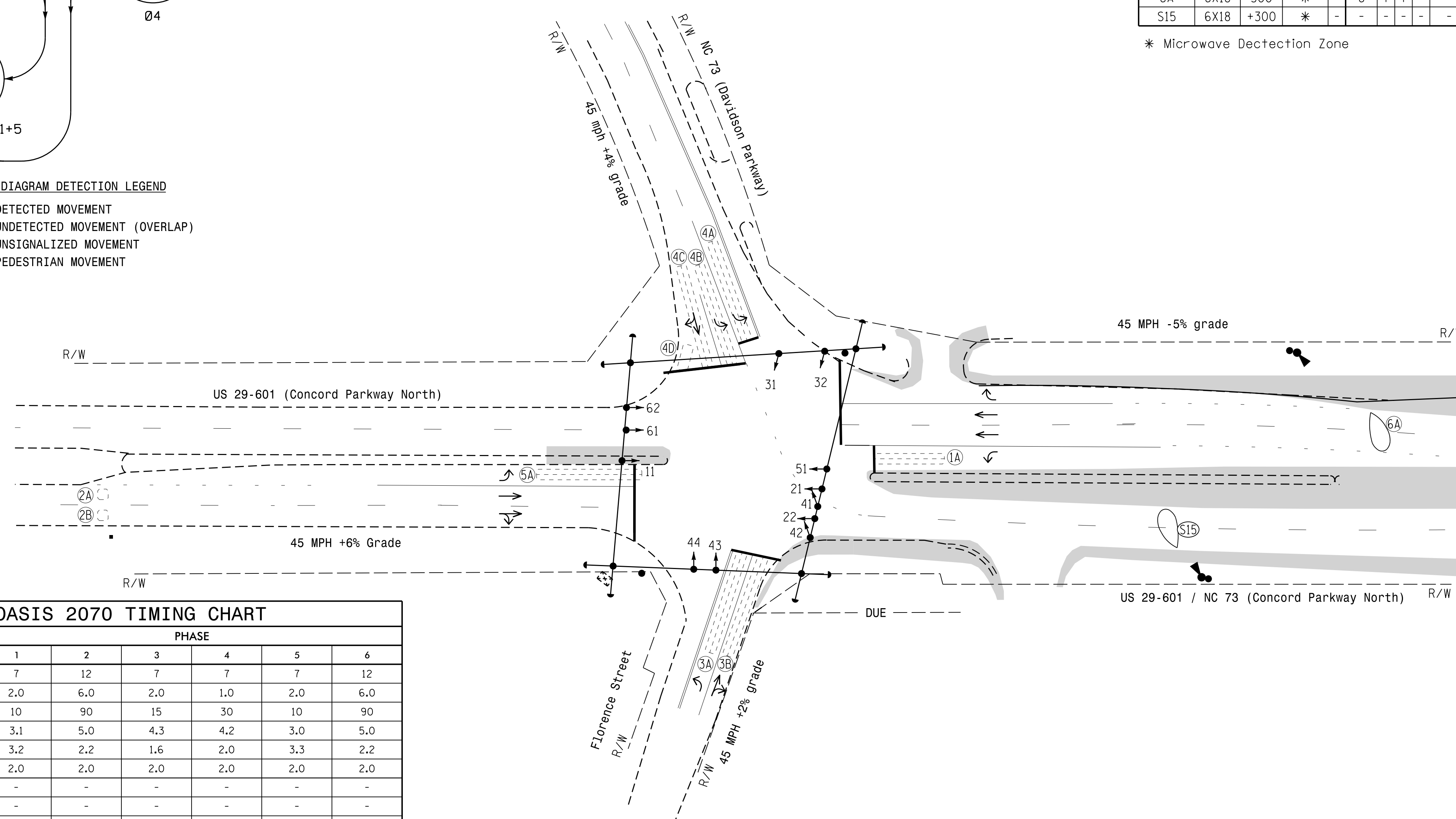
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING							
				PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME		
1A	6X40	0	2-4-2	-	1	Y	Y	-	-	15	-
2A	6X6	300	EXIST	-	2	Y	Y	-	-	-	-
2B	6X6	300	EXIST	-	2	Y	Y	-	-	-	-
3A	6X40	0	2-4-2	-	3	Y	Y	-	-	3	-
3B	6X40	0	2-4-2	-	3	Y	Y	-	-	10	-
4A	6X60	0	2-4-2	-	4	Y	Y	-	-	3	-
4B	6X60	0	2-4-2	-	4	Y	Y	-	-	3	-
4C	6X60	0	2-4-2	-	4	Y	Y	-	-	10	-
4D	6X15	0	3	-	4	Y	Y	-	-	15	-
5A	6X40	+5	2-4-2	-	5	Y	Y	-	-	15	-
6A	6X18	300	*	-	6	Y	Y	-	-	-	-
S15	6X18	+300	*	-	-	-	-	-	-	-	Y

\* Microwave Detection Zone

6 Phase Fully Actuated Concord/Kannapolis CLS-Zone 2

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012. "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.
- The order of phase 3 and phase 4 may be reversed.
- 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.
- Closed loop system data: Controller Asset # 0820.



FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1 *	7	12	7	7	7	12
Extension 1	2.0	6.0	2.0	1.0	2.0	6.0
Max Green 1 *	10	90	15	30	10	90
Yellow Clearance	3.1	5.0	4.3	4.2	3.0	5.0
Red Clearance	3.2	2.2	1.6	2.0	3.3	2.2
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	1.5	-	-	-	2.0
Max Variable Initial *	-	34	-	-	-	34
Time Before Reduction *	-	10	-	-	-	10
Time To Reduce *	-	20	-	-	-	20
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

- | PROPOSED | EXISTING |
|----------|----------|
|          |          |
|          | N/A      |
|          |          |
|          |          |
|          |          |
|          |          |
|          |          |
|          |          |
|          |          |
|          |          |
| N/A      |          |
|          |          |
|          |          |
|          |          |
|          |          |

Signal Upgrade Temporary Design-4 TCP Phase V

	US 29-601/US 29-601-NC 73 (Concord Parkway North) at NC 73 (Davidson Parkway) / Florence Street	SEAL NORTH CAROLINA PROFESSIONAL ENGINEER TIMOTHY J. WILLIAMS License No. 024393
	Division 10 Cabarrus County Concord PLAN DATE: November 2014 REVIEWED BY: T. Williams PREPARED BY: M. Mahbooba REVIEWED BY:	

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