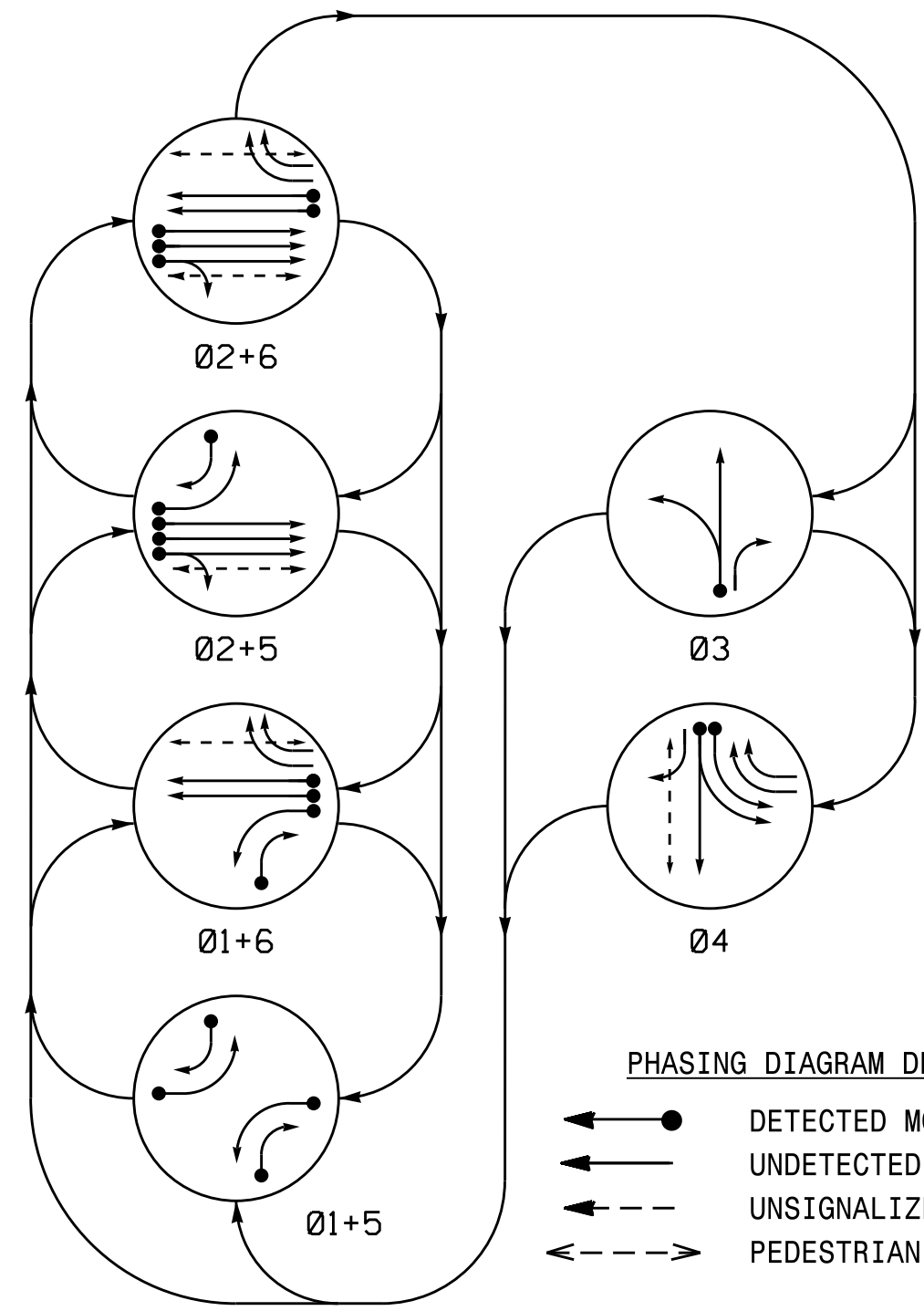


PHASING DIAGRAM



SIGNAL FACE I.D.

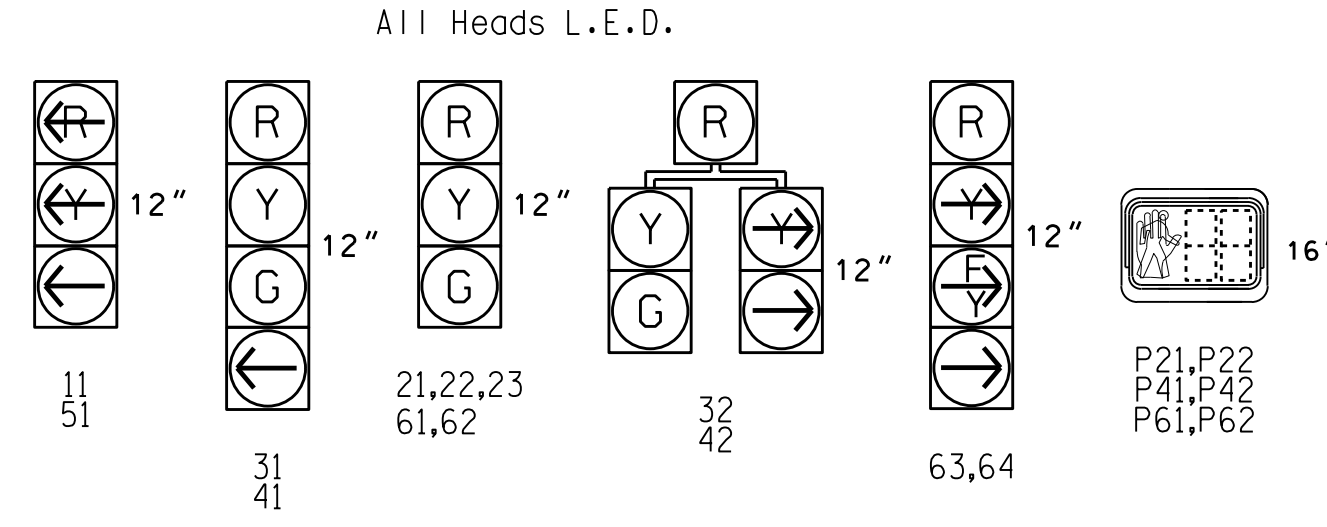


TABLE OF OPERATION

SIGNAL FACE	PHASE						
	01+5	02+5	03	04	05+6	06	07
11	←	←	←	←	←	←	←
21, 22, 23	R	R	G	G	R	R	Y
31	R	R	R	R	G	R	R
32	R	R	R	R	G	R	R
41	R	R	R	R	G	R	R
42	R	R	R	R	G	R	R
51	←	←	←	←	←	←	←
61, 62	R	G	R	G	R	R	Y
63, 64	R	F	R	F	R	Y	Y
P21, P22	DW	DW	W	W	DW	DW	DRK
P41, P42	DW	DW	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	W	DW	DW	DRK

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

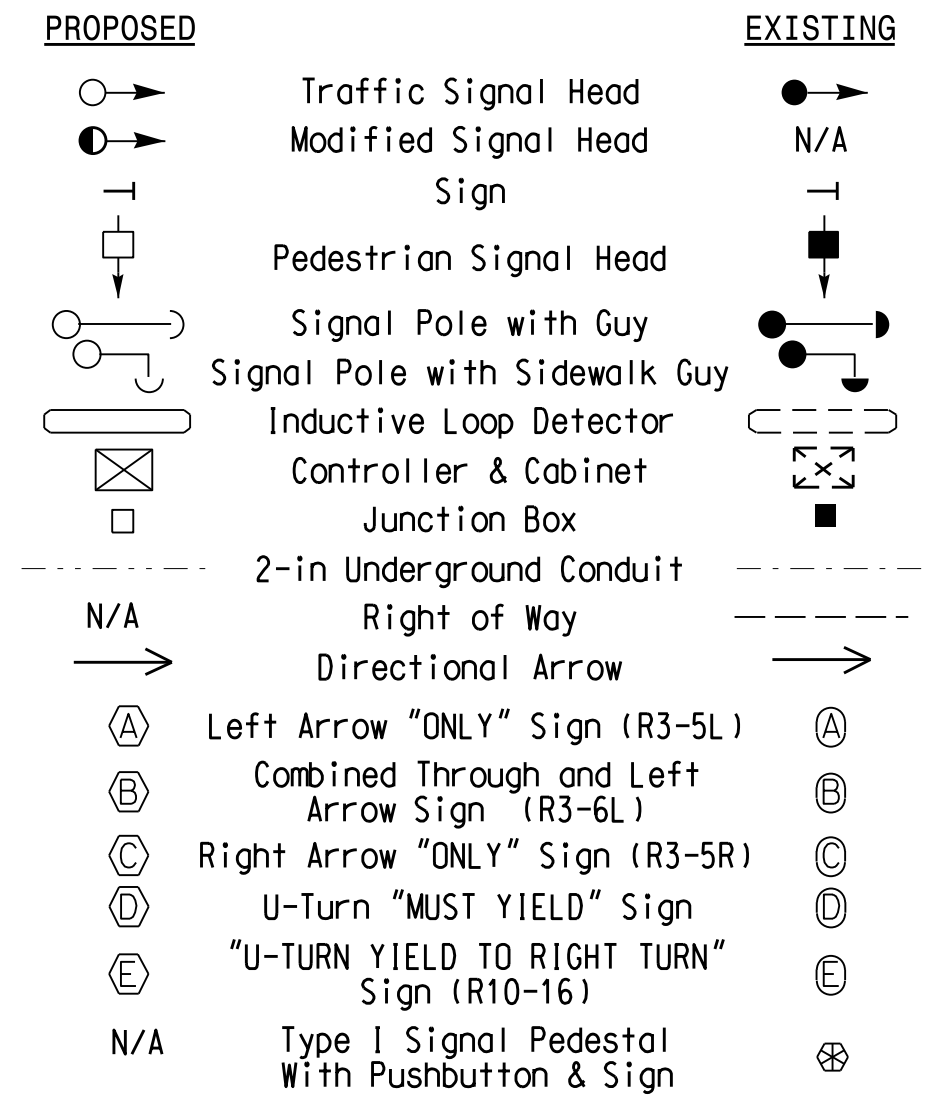
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	STRETCH TIME			DELAY TIME
1A	6X60	2-4-2	+5	-	1	Y	Y	-	-	-	Y
1B	6X60	2-4-2	0	-	1	Y	Y	-	-	15	-
2A	6X6	EXISTING	300	-	2	Y	Y	-	-	-	Y
2B	6X6	EXISTING	300	-	2	Y	Y	-	-	-	Y
2C	6X6	EXISTING	300	-	2	Y	Y	-	-	-	Y
3A	6X60	2-4-2	0	-	3	Y	Y	-	-	3	-
4A	6X60	2-4-2	+10	-	4	Y	Y	-	-	3	-
4B	6X60	2-4-2	+5	-	4	Y	Y	-	-	-	Y
5A	6X60	2-4-2	+5	-	5	Y	Y	-	-	-	Y
5B	6X60	2-4-2	+5	-	5	Y	Y	-	-	15	-
6A	6X6	EXISTING	300	-	6	Y	Y	-	-	-	Y
6B	6X6	EXISTING	300	-	6	Y	Y	-	-	-	Y
S1	6X6	EXISTING	+200	-	-	-	-	-	-	-	Y
S2	6X6	EXISTING	+200	-	-	-	-	-	-	-	Y
S3	6X6	EXISTING	+200	-	-	-	-	-	-	-	Y

6 Phase Fully Actuated Asheville 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.
- 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.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

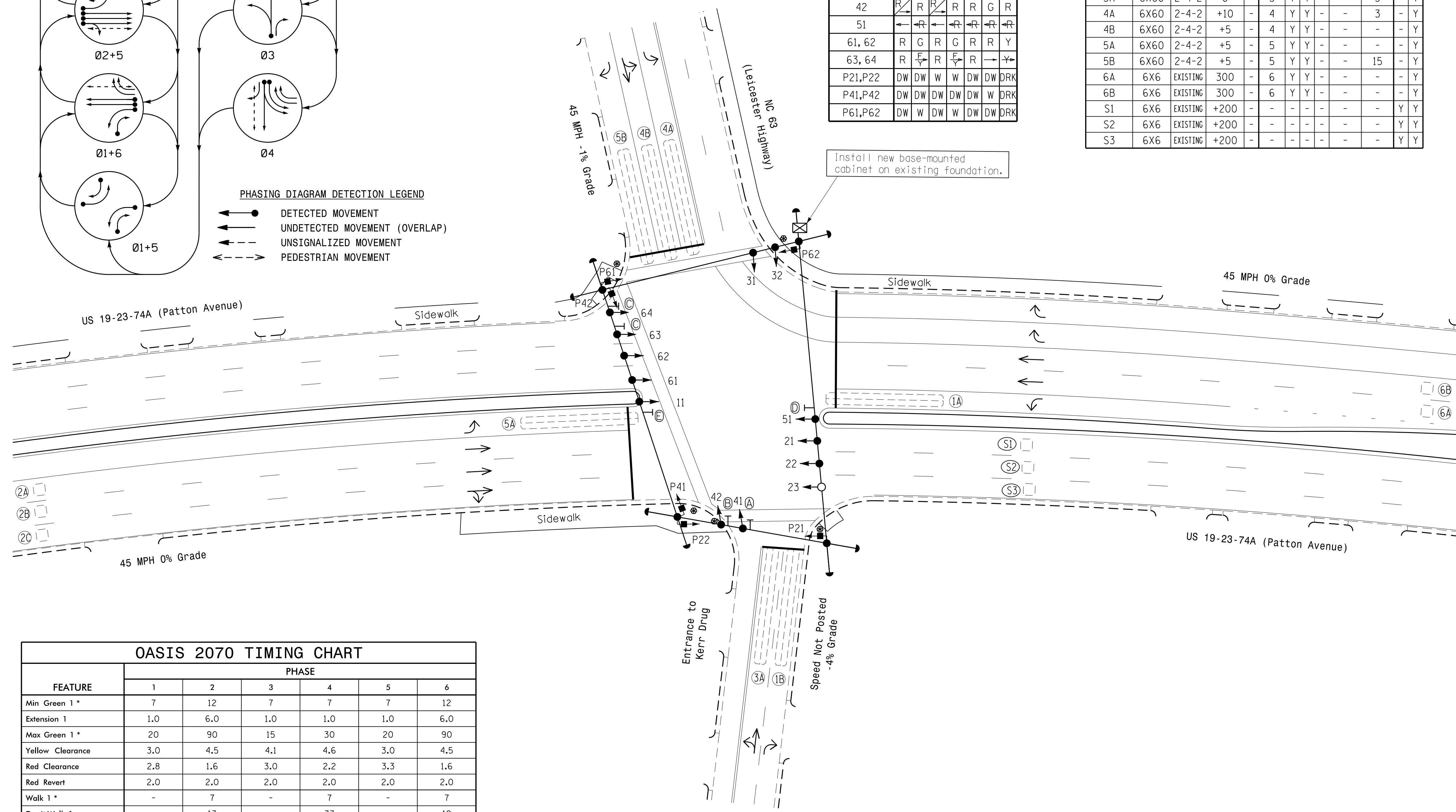
LEGEND



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	1.0	1.0	1.0	6.0
Max Green 1 *	20	90	15	30	20	90
Yellow Clearance	3.0	4.5	4.1	4.6	3.0	4.5
Red Clearance	2.8	1.6	3.0	2.2	3.3	1.6
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	7	-	7	-	7
Don't Walk 1	-	13	-	33	-	19
Seconds Per Actuation *	-	1.2	-	-	-	1.5
Max Variable Initial *	-	34	-	-	-	34
Time Before Reduction *	-	30	-	-	-	30
Time To Reduce *	-	30	-	-	-	30
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.



Signal Upgrade

Prepared in the Offices of:

 750 N. Greenfield Pkwy, Garner, NC 27529

US 19-23-74A (Patton Avenue) at NC 63 (Leicester Highway) and Entrance to Kerr Drug

Division 13 Buncombe County Asheville

PLAN DATE: June 2016 REVIEWED BY: T. J. Williams

PREPARED BY: C. Pierce REVIEWED BY:

REVISIONS: _____ INIT. DATE

SCALE: 1"=30'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 24393

DocuSigned by: J. J. Williams 8/10/2016

SIG. INVENTORY NO. 13-0221

10-0105-2016 15:54
 S:\PROJECTS\13-0221\SIG\13-0221\Sig.dgn
 Design: J. Williams
 System: Signal Design
 Region: Eastern Region
 Date: 8/10/2016 15:54