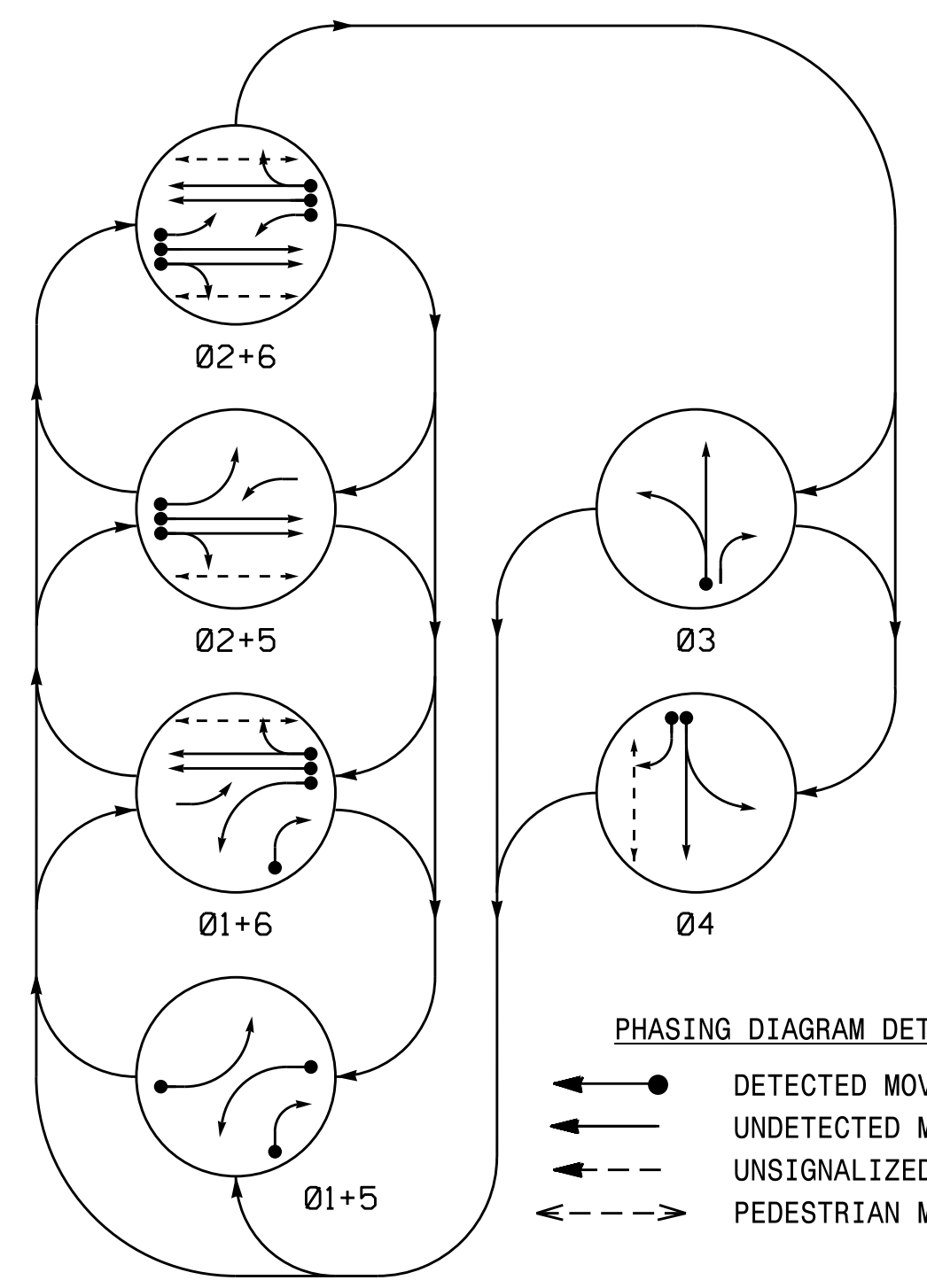
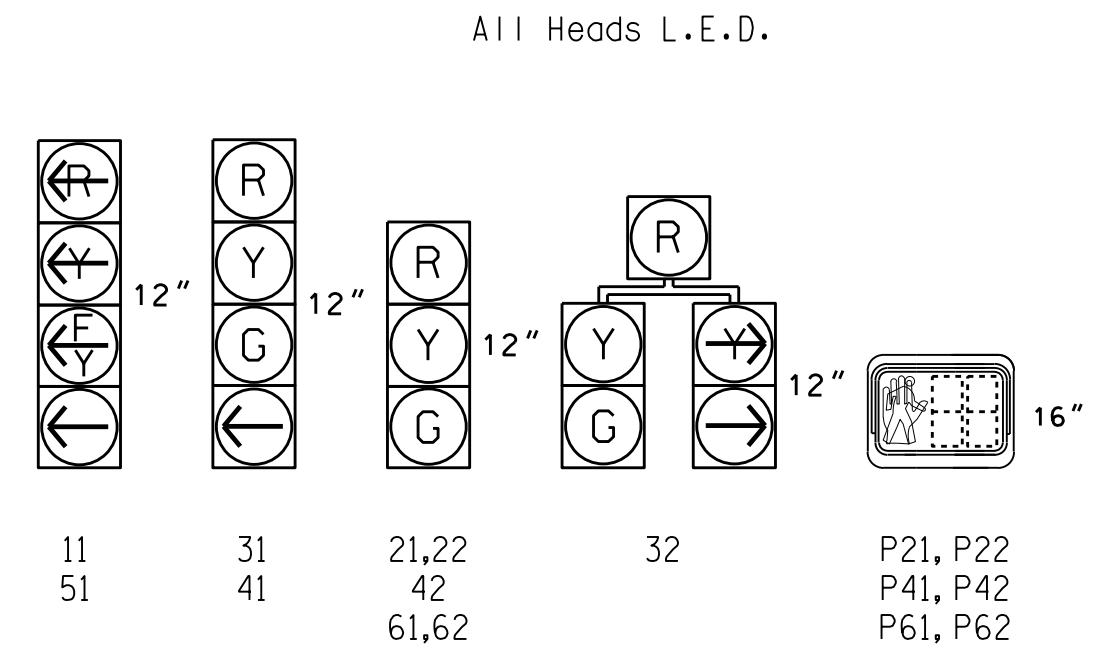


PHASING DIAGRAM



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	G	R
42	R	R	R	R	G	R
51	←	←	←	←	←	←
61, 62	R	G	R	G	R	Y
P21, P22	DW	DW	W	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	W	DW	DRK

SIGNAL FACE I.D.



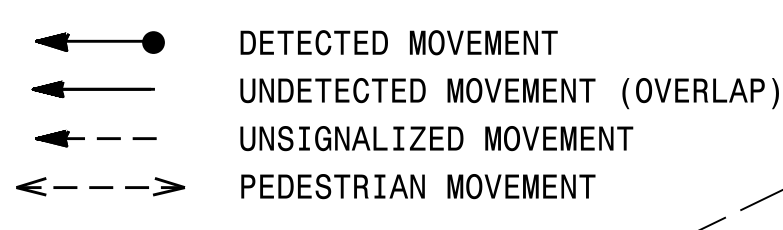
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION FULL TIME DELAY	STRETCH TIME	DELAY TIME	LOOP SYSTEM NEW CARD		
1A	6x40	+10	2-4-2	-	1	Y	Y	-	-	15	-	Y
1B	6x40	0	2-4-2	-	1	Y	Y	-	-	15	-	Y
2A/S1	6x6	300	6	-	2	Y	Y	-	-	-	-	Y
2B/S2	6x6	300	6	-	2	Y	Y	-	-	-	-	Y
3A	6x40	0	2-4-2	-	3	Y	Y	-	-	3	-	Y
4A	6x40	+3	2-4-2	-	4	Y	Y	-	-	3	-	Y
4B	6x40	+8	2-4-2	-	4	Y	Y	-	-	15	-	Y
5A	6x40	0	2-4-2	-	5	Y	Y	-	-	15	-	Y
6A/S3	6x6	290	5	-	2	Y	Y	-	-	3	-	Y
6B/S4	6x6	290	5	-	6	Y	Y	-	-	-	-	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.

PHASING DIAGRAM DETECTION LEGEND



NC 280 (Airport Road)

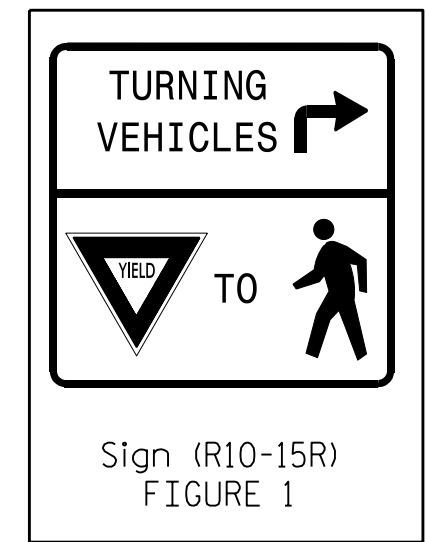
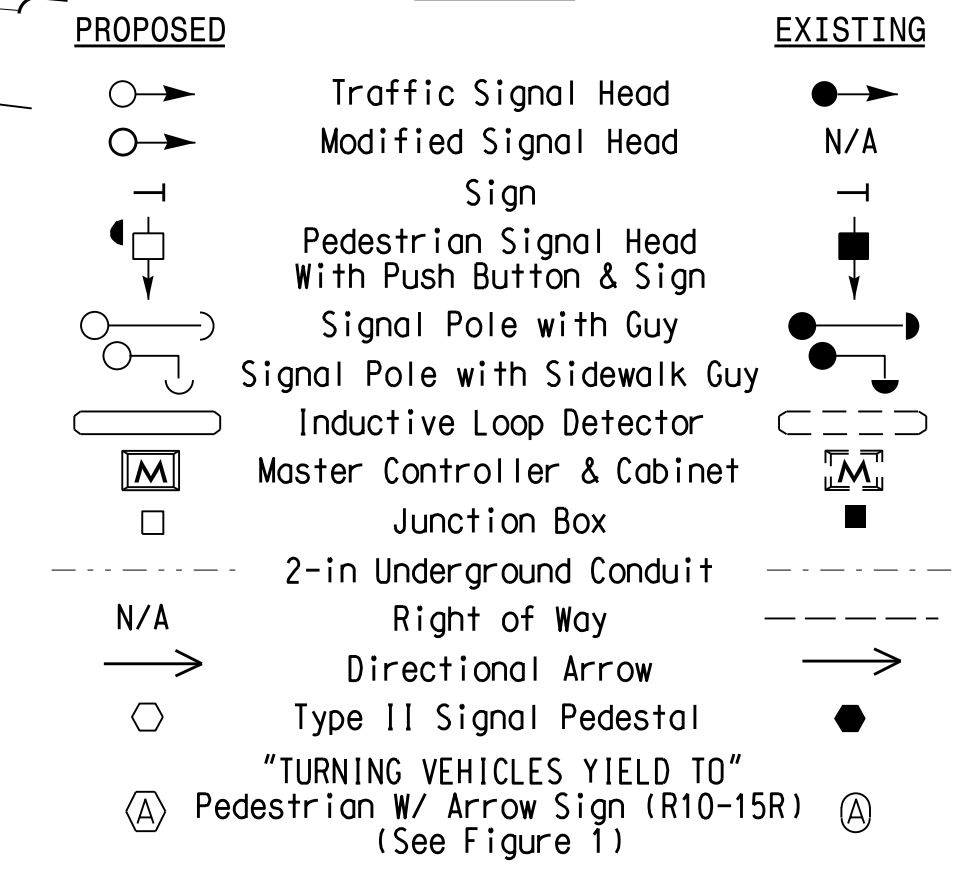
Posted Speed: 35 MPH  
Design Speed: 45 MPH  
+2% Grade

Posted Speed: 35 MPH  
Design Speed: 45 MPH  
-2% Grade

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	2.0	2.0	6.0
Max Green 1 *	15	90	25	25	15	90
Yellow Clearance	3.0	4.7	3.2	3.1	3.0	4.7
Red Clearance	3.9	2.8	3.3	2.8	4.1	2.8
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	7	-	7	-	7
Don't Walk 1	-	22	-	22	-	24
Seconds Per Actuation *	-	1.5	-	-	-	1.5
Max Variable Initial *	-	34	-	-	-	33
Time Before Reduction *	-	15	-	-	-	15
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.

LEGEND



Signal Upgrade

Prepared In the Offices of:  
  
**NC 280 (Airport Road) At SR 3568 (Rockwood Road)**  
 Division 13 Buncombe County Fletcher  
 PLAN DATE: November 2016 REVIEWED BY: T. Williams  
 PREPARED BY: M. Mahbooba REVIEWED BY:  
 REVISIONS: INIT. DATE  
 SCALE: 1"=30'  
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  
 SIGNED: S. J. Williams 11/14/2016  
 SIG. INVENTORY NO. 13-0820

14-0016-2016 14-11  
 S:\11\2510\11\15\_Signal\Signal Design\Regional\Region01\15\_Signal\_System\Signal\_Design\13-0820\13-0820\13-0820\13-0820\13-0820.dgn  
 T. Williams