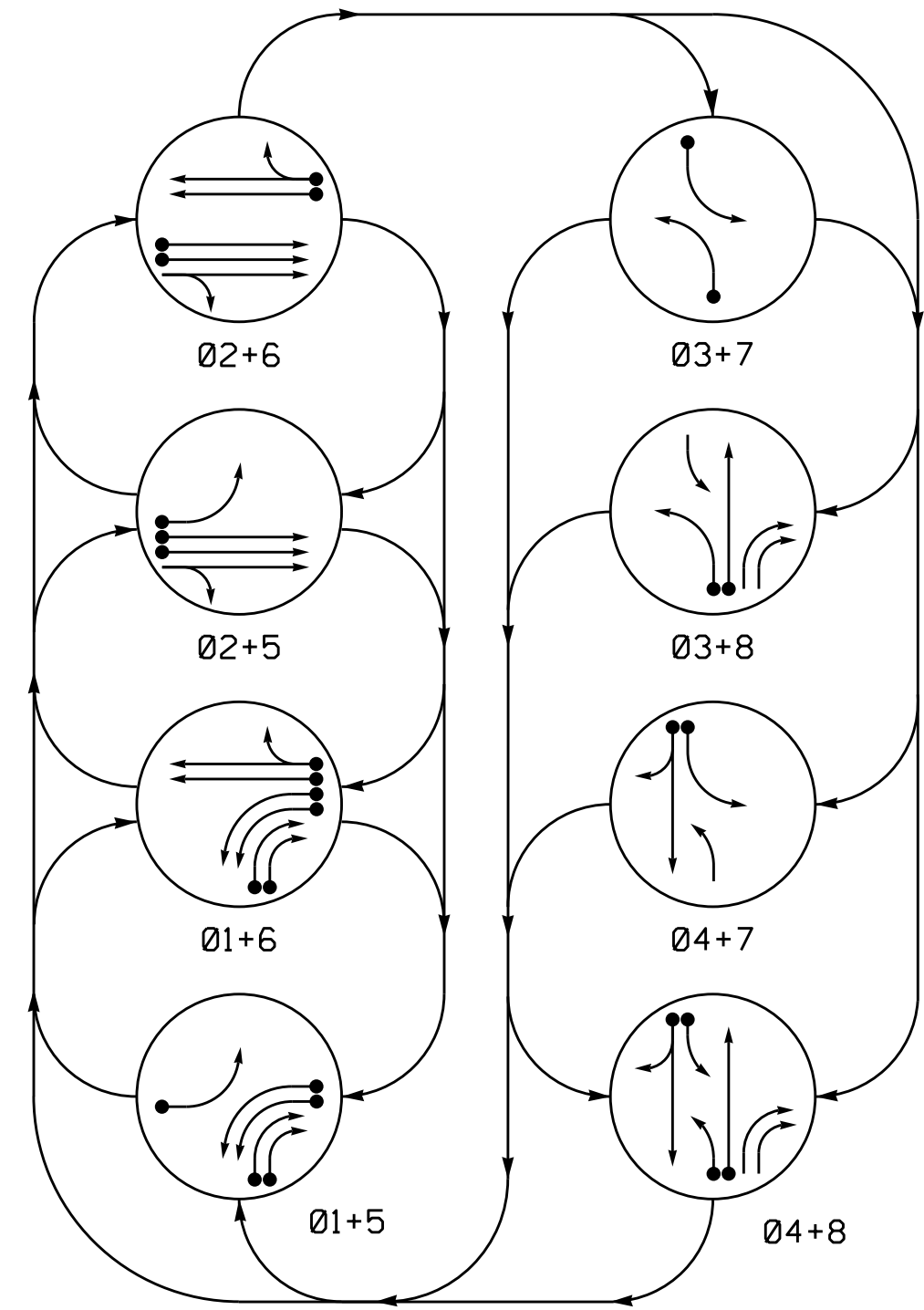


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

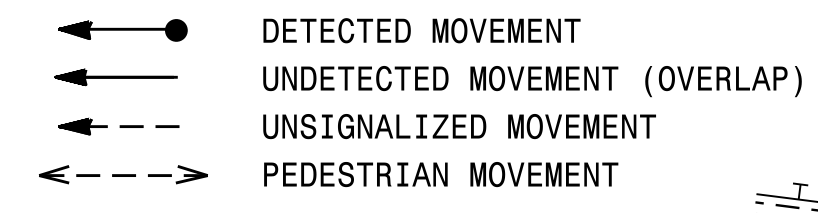
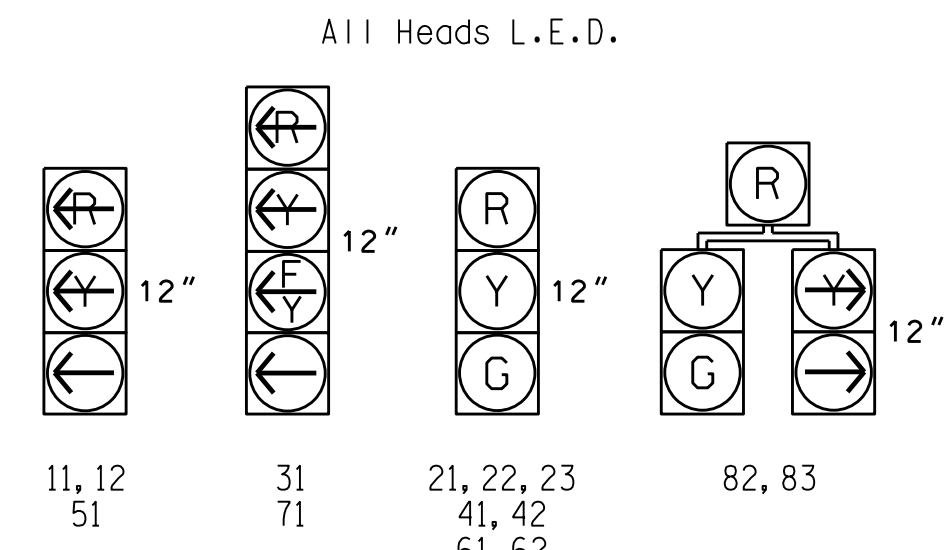


TABLE OF OPERATION

SIGNAL FACE	PHASE								FLASH	
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8		
11, 12	-	-	-	-	-	-	-	-	-	-
21, 22, 23	R	R	G	G	R	R	R	R	Y	-
31	-	-	-	-	-	-	-	-	-	-
41, 42	R	R	R	R	R	R	G	G	R	-
51	-	-	-	-	-	-	-	-	-	-
61, 62	R	G	R	G	R	R	R	R	Y	-
71	-	-	-	-	-	-	-	-	-	-
81	R	R	R	R	R	G	R	G	R	-
82, 83	R	R	R	R	R	G	R	G	R	-

SIGNAL FACE I.D.



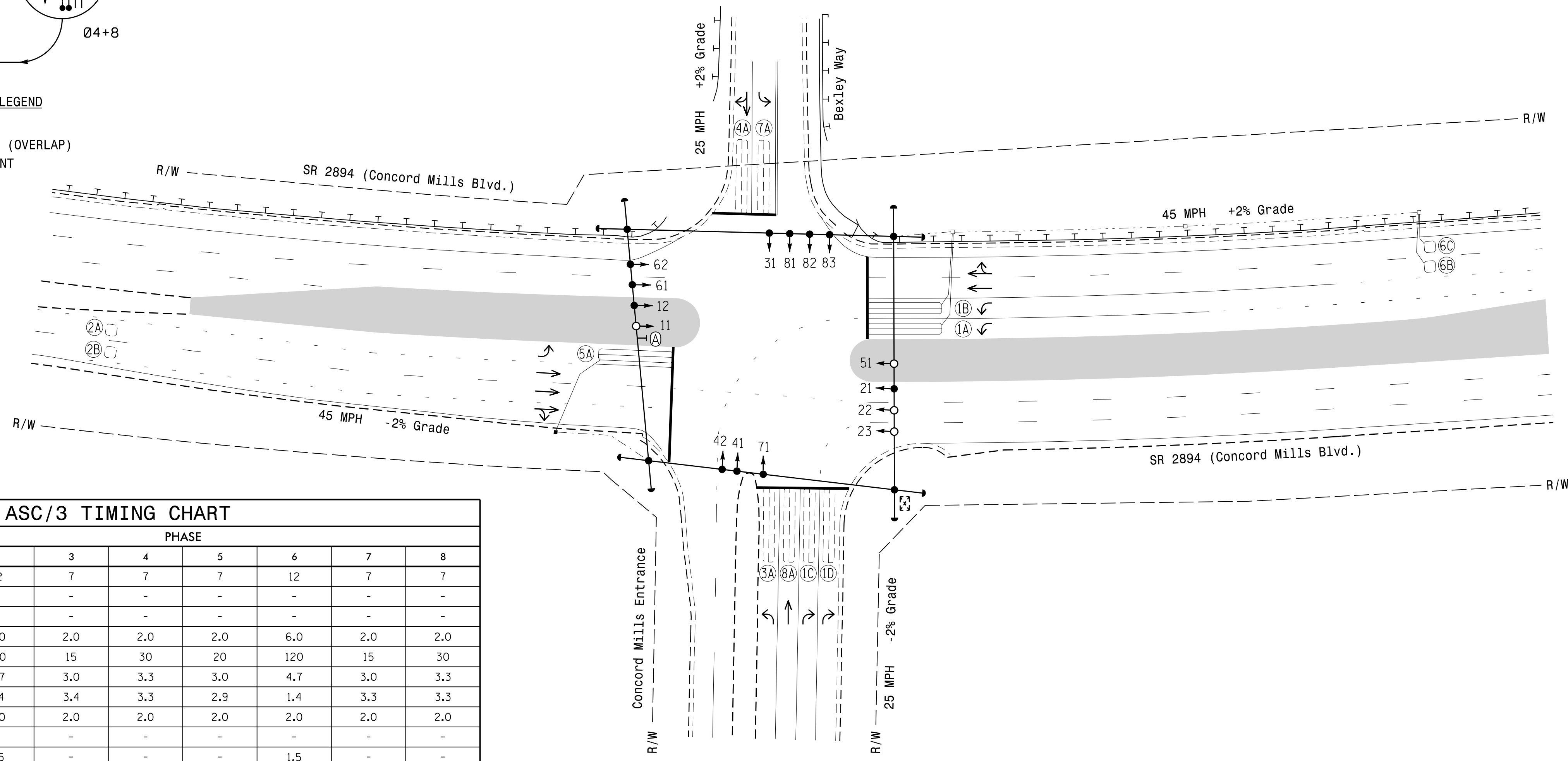
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING					
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP
1A	6X40	0	2-4-2	Y	1	Yes	-	-	S	-
1B	6X40	0	2-4-2	Y	1	Yes	-	-	S	-
1C	6X40	0	2-4-2	-	1	Yes	-	15	S	-
1D	6X40	0	2-4-2	-	1	Yes	-	15	S	-
2A	6X6	300	EXIST	-	2	Yes	-	-	S	-
2B	6X6	300	EXIST	-	2	Yes	-	-	S	-
3A	6X40	0	2-4-2	-	3	Yes	-	15	S	-
4A	6X40	0	2-4-2	-	4	Yes	-	-	S	-
5A	6X40	0	2-4-2	Y	5	Yes	-	-	S	-
6B	6X6	300	5	Y	6	Yes	-	-	S	-
6C	6X6	300	5	Y	6	Yes	-	-	S	-
7A	6X40	0	2-4-2	-	7	Yes	-	15	S	-
8A	6X40	0	2-4-2	-	8	Yes	-	3	S	-

8 Phase Fully Actuated Concord Mills Blvd. CLS

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.
- Reposition existing signal heads 21, 61, and 62.
- 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 #: 1733

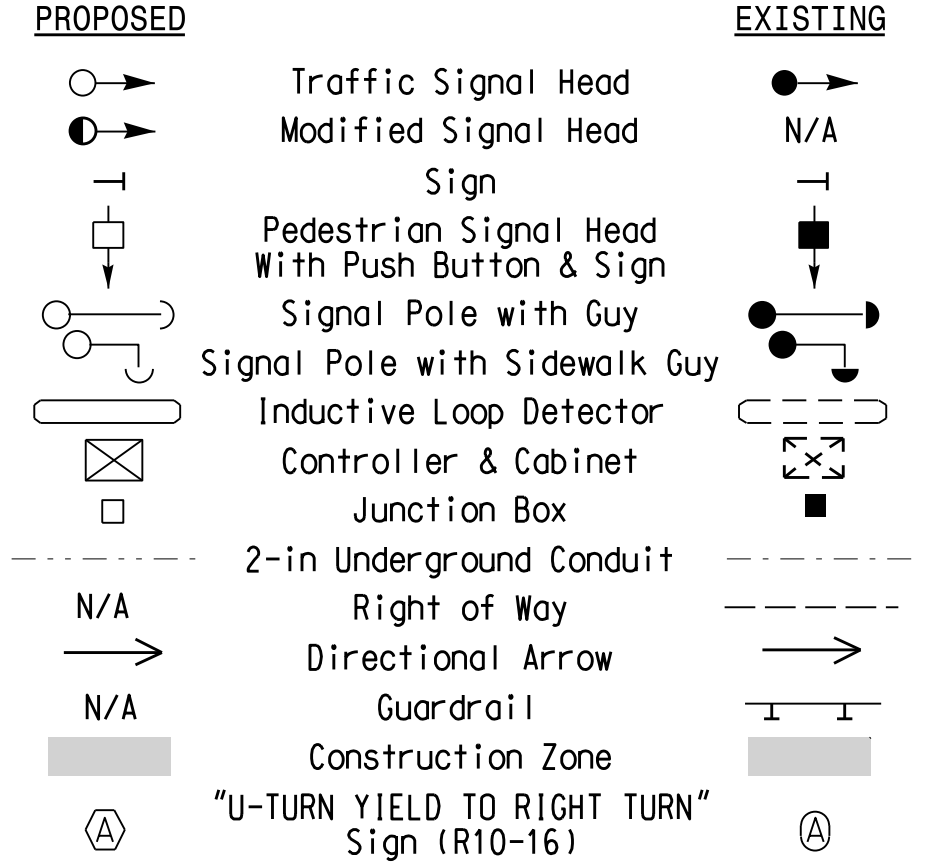


ASC/3 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	12	7	7	7	12	7	7
Walk *	-	-	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max I *	45	120	15	30	20	120	15	30
Yellow	3.0	4.7	3.0	3.3	3.0	4.7	3.0	3.3
Red Clear	3.4	1.4	3.4	3.3	2.9	1.4	3.3	3.3
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-	-	-	-	-
Seconds / Actuation *	-	1.5	-	-	-	1.5	-	-
Max Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	45	-	-	-	45	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Locking Detector	-	X	-	-	-	X	-	-
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALL	-	-
Dual Entry	-	-	-	X	-	-	-	X
Simultaneous Gap	X	X	X	X	X	X	X	X

\* 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 2 - Phase II

Prepared in the Offices of:  
  
 SR 2894 (Concord Mills Blvd.)  
 at  
 Concord Mills Entrance/  
 Bexley Way  
 Division 10 Cabarrus County Concord  
 PLAN DATE: August 2017 REVIEWED BY: T.J. Williams  
 PREPARED BY: R.N. Zinser REVIEWED BY:  
 SCALE: 1" = 40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 RICHARD N. ZINER  
 SEAL 043914  
 DATE: 9/25/2017  
 SIG. INVENTORY NO. 10-1733 T2

26-SEP-2017 10:51  
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