

6 Phase Fully Actuated Fayetteville Signal System

NOTES

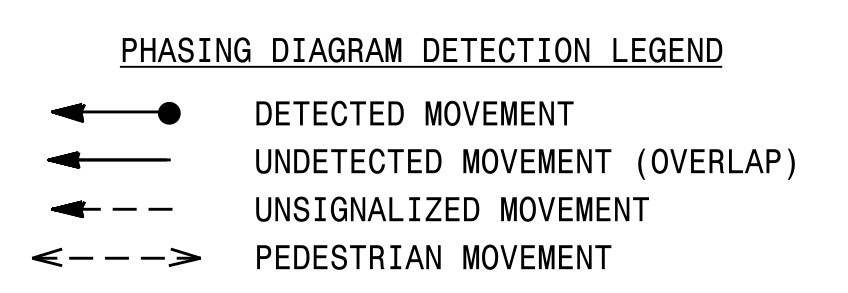
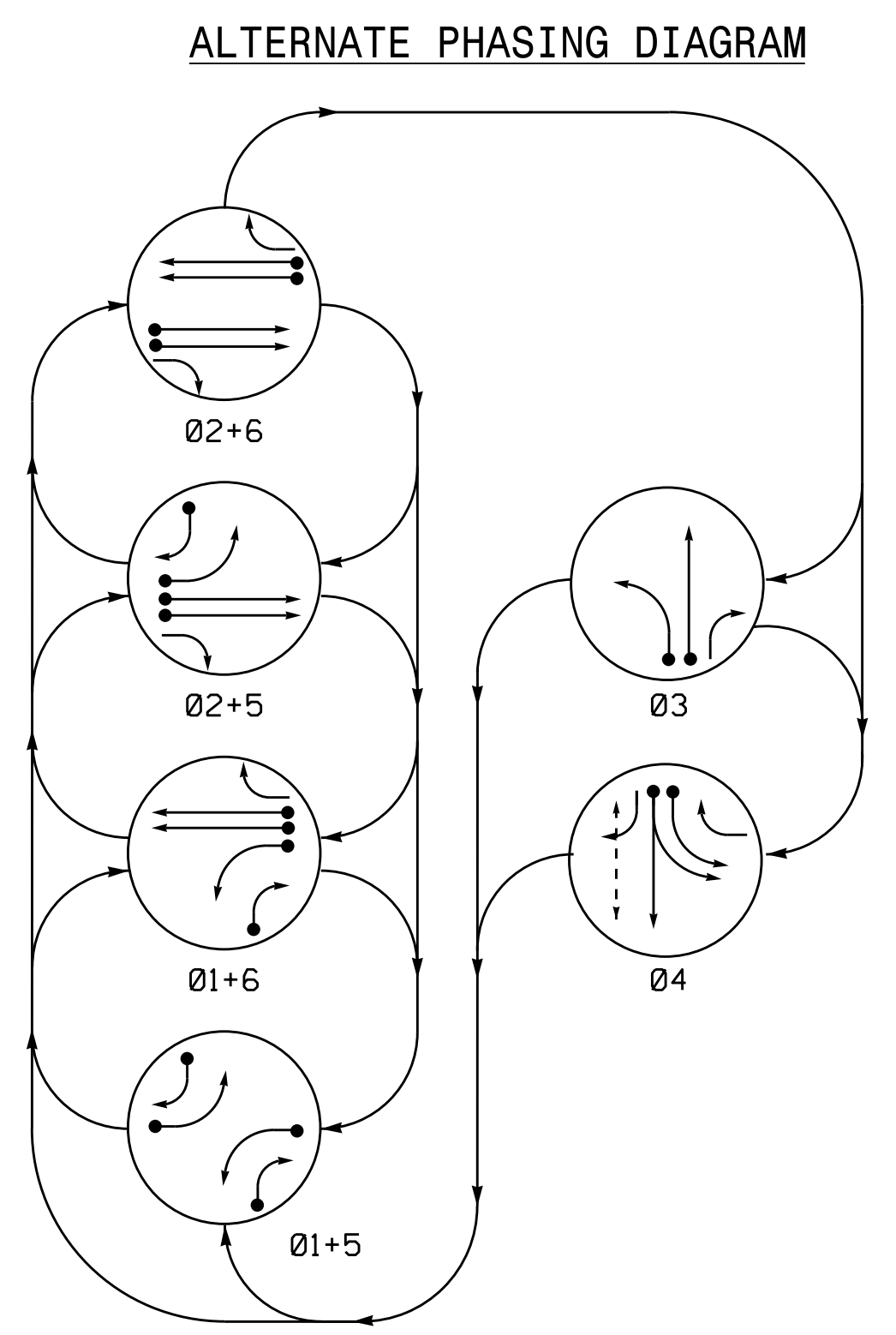
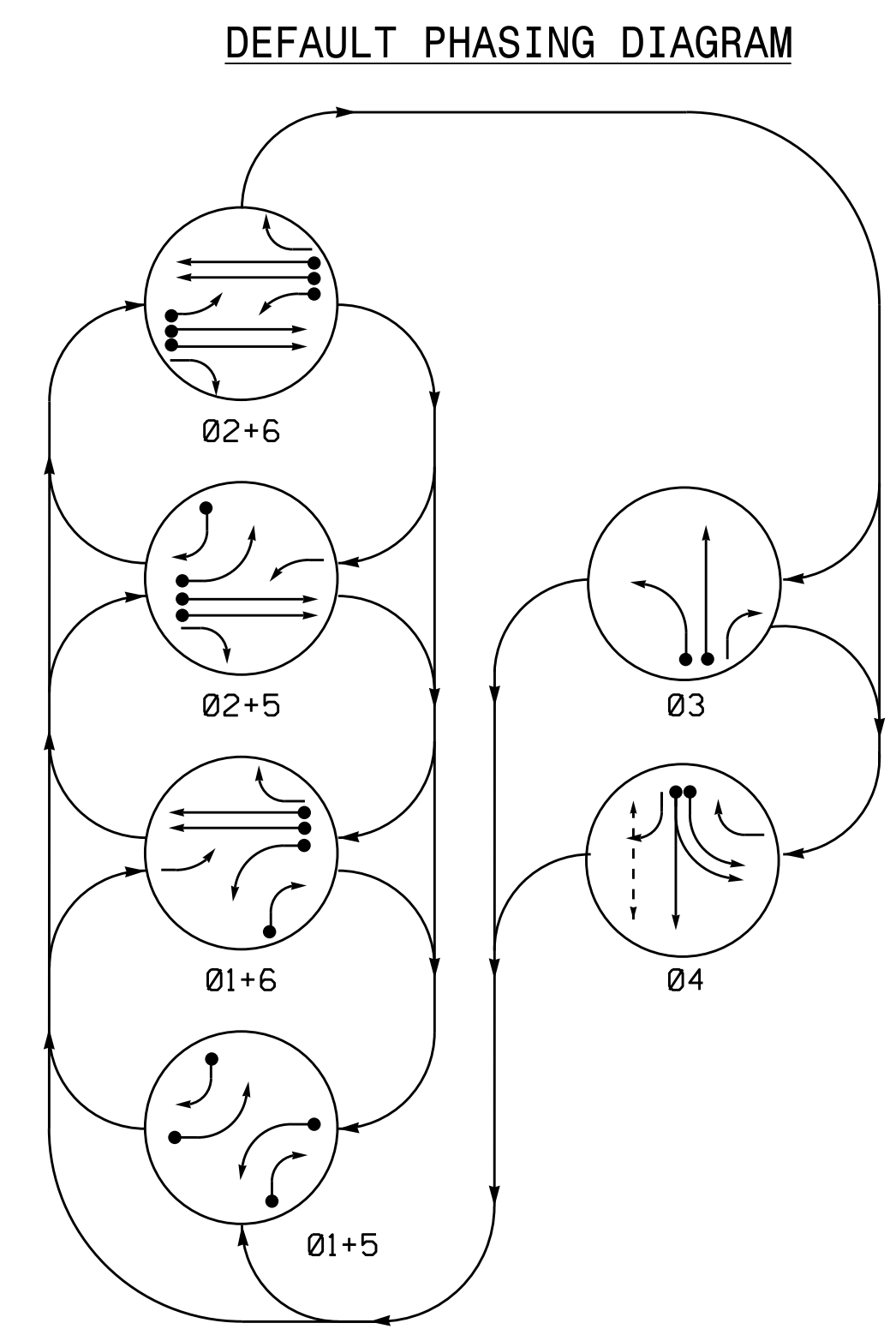
- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- The order of phase 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.

ASC/3 DETECTOR INSTALLATION CHART										
DETECTOR					PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP NEW CARD
1A	6X40	0	2-4-2	-	1	Yes	-	*15	S	- X
					6**	Yes	-	3	G	- X
1B	6X27	0	2-4-2	-	1	Yes	-	15	S	- X
2A	6X6	300	6	-	2	Yes	-	-	N	- X
2B	6X6	300	6	-	2	Yes	-	-	N	- X
3A	6X28	0	2-4-2	-	3	Yes	-	-	S	- X
3B	6X27	0	2-4-2	-	3	Yes	-	-	S	- X
4A	6X40	0	2-4-2	-	4	Yes	-	-	S	- X
4B	6X40	0	2-4-2	-	4	Yes	-	-	S	- X
5A	6X40	+5	2-4-2	-	5	Yes	-	*15	S	- X
					2**	Yes	-	3	G	- X
5B	6X40	20	2-4-2	-	5	Yes	-	15	S	- X
6A	6X6	300	6	-	6	Yes	-	-	N	- X
6B	6X6	300	6	-	6	Yes	-	-	N	- X

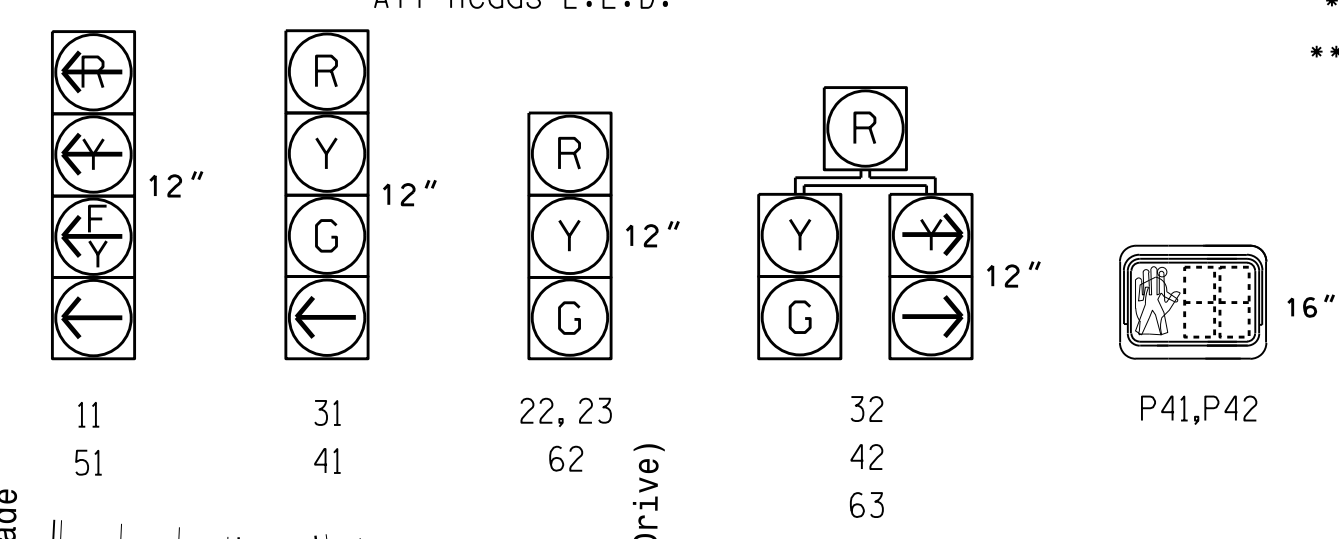
- Disable Delay During Alternate Phasing Operation.
- Disable Phase 2/6 Call For Loops 1A and 5A During Alternate Phasing Operation.

DEFAULT TABLE OF OPERATION										
SIGNAL FACE	PHASE						FLASH	F	T	R
	01+5	01+6	02+5	02+6	03	04				
11	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---
62	R	G	R	G	R	R	Y			
63	R	G	R	G	R	R	Y			
P41, P42	DW	DW	DW	DW	DW	W	DRK			

ALTERNATE TABLE OF OPERATION										
SIGNAL FACE	PHASE						FLASH	F	T	R
	01+5	01+6	02+5	02+6	03	04				
11	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---
62	R	G	R	G	R	R	Y			
63	R	G	R	G	R	R	Y			
P41,P42	DW	DW	DW	DW	DW	W	DRK			

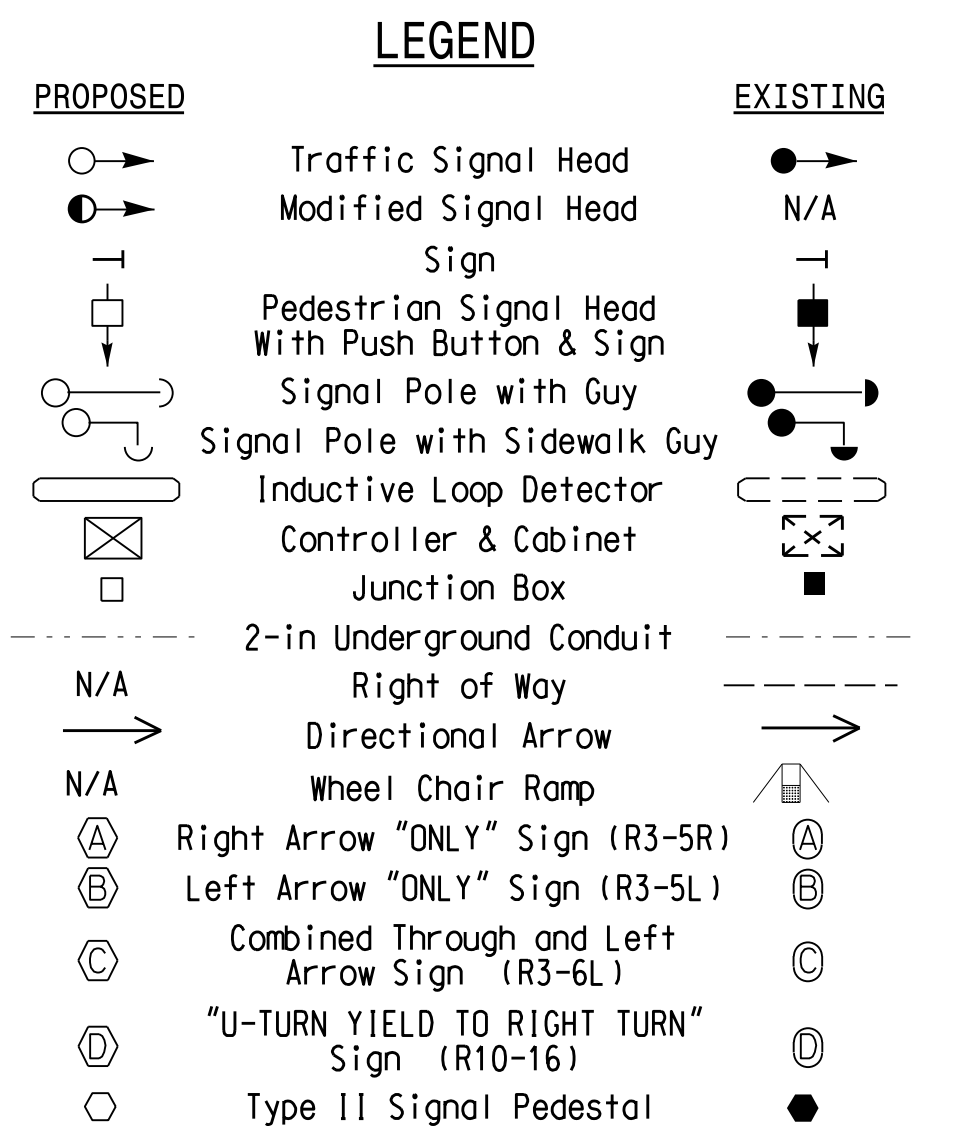
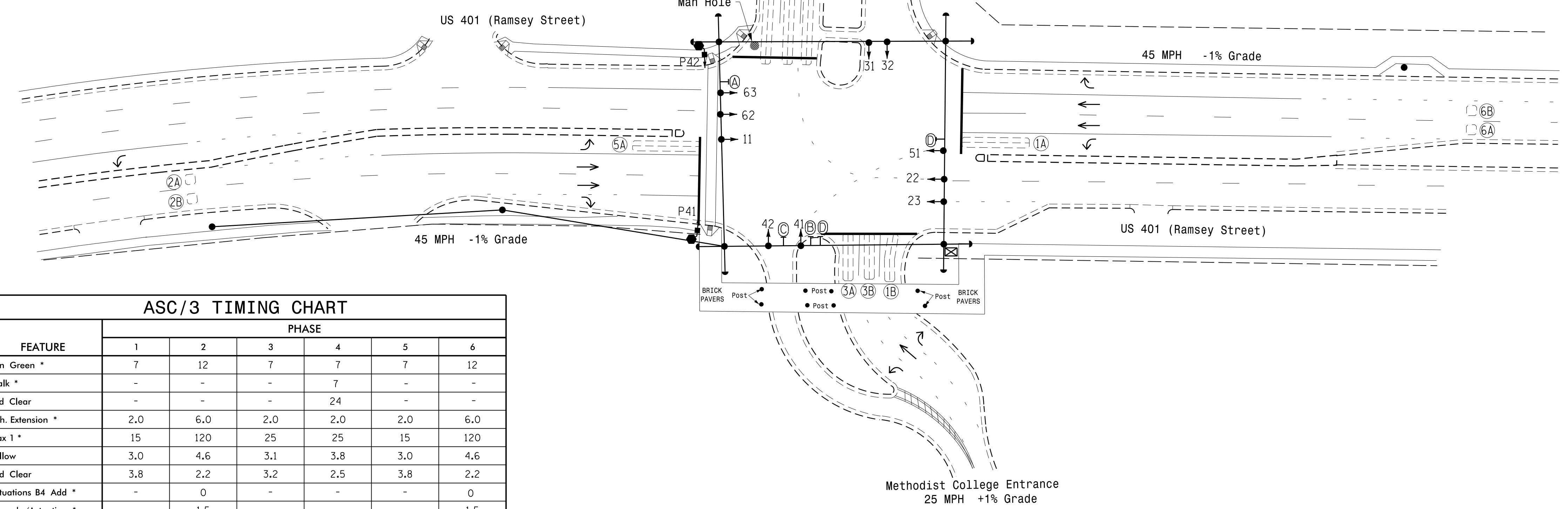


SIGNAL FACE I.D.



ASC/3 TIMING CHART						
FEATURE	PHASE					
	1	2	3	4	5	6
Min Green *	7	12	7	7	7	12
Walk *	-	-	-	7	-	-
Ped Clear	-	-	-	24	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0
Max 1 *	15	120	25	25	15	120
Yellow	3.0	4.6	3.1	3.8	3.0	4.6
Red Clear	3.8	2.2	3.2	2.5	3.8	2.2
Actuations B4 Add *	-	0	-	-	-	0
Seconds / Actuation *	-	1.5	-	-	-	1.5
Max Initial *	-	40	-	-	-	40
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.0	-	-	-	3.0
Locking Detector	-	X	-	-	-	X
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALL
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	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.



Signal Upgrade

Prepared In the Offices of:  
  
**US 401 (Ramsey Street) at SR 1615 (Stacy Weaver Drive) / Entrance to Methodist College**  
 Division 6 Cumberland County Fayetteville  
 PLAN DATE: August 2016 REVIEWED BY:  
 PREPARED BY: EMM/KGP/JPG REVIEWED BY:  
 SCALE: 0 40  
 1"=40'  
 REVISIONS: INIT. DATE  
 Documented by: Jason P. Callaway 10/7/2016  
 SIG. INVENTORY NO. 06-0448

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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