

4 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.
- PAVEMENT MARKINGS ARE EXISTING.
- MAXIMUM TIMES SHOWN IN TIMINGS CHART ARE FOR FREE-RUN OPERATION ONLY. COORDINATED SIGNAL SYSTEM TIMING VALUES SHALL SUPERCEDE THESE VALUES.
- THIS SIGNAL IS PART OF THE FAYETTEVILLE SIGNAL SYSTEM.
- OMIT "WALK" AND "FLASHING DON'T WALK" WITH NO PEDESTRIAN CALLS.
- DO NOT PROGRAM SIGNAL FOR LATE NIGHT FLASHING OPERATION UNLESS OTHERWISE DIRECTIONED BY THE ENGINEER.
- SET ALL DETECTOR UNITS TO PRESENCE MODE.
- INSTALL NEW CABINET ON EXISTING FOUNDATION.
- PROGRAM PEDESTRIAN HEADS TO COUNTDOWN THE FLASHING "DON'T WALK" TIME ONLY.

LEGEND

PROPOSED	EXISTING
	N/A
N/A	COMBINED THOUGH AND LEFT ARROW SIGN (R4-7)
N/A	"KEEP RIGHT" SIGN (R4-7)
N/A	"DO NOT ENTER" SIGN (R5-1)

SIGNAL FACE I.D.

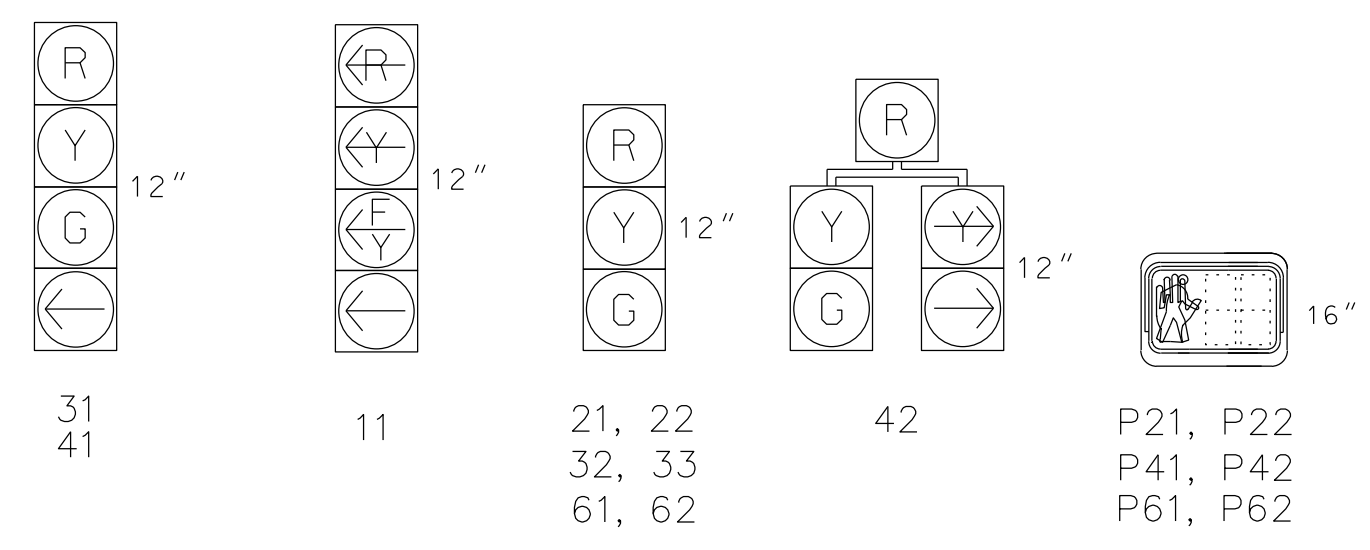
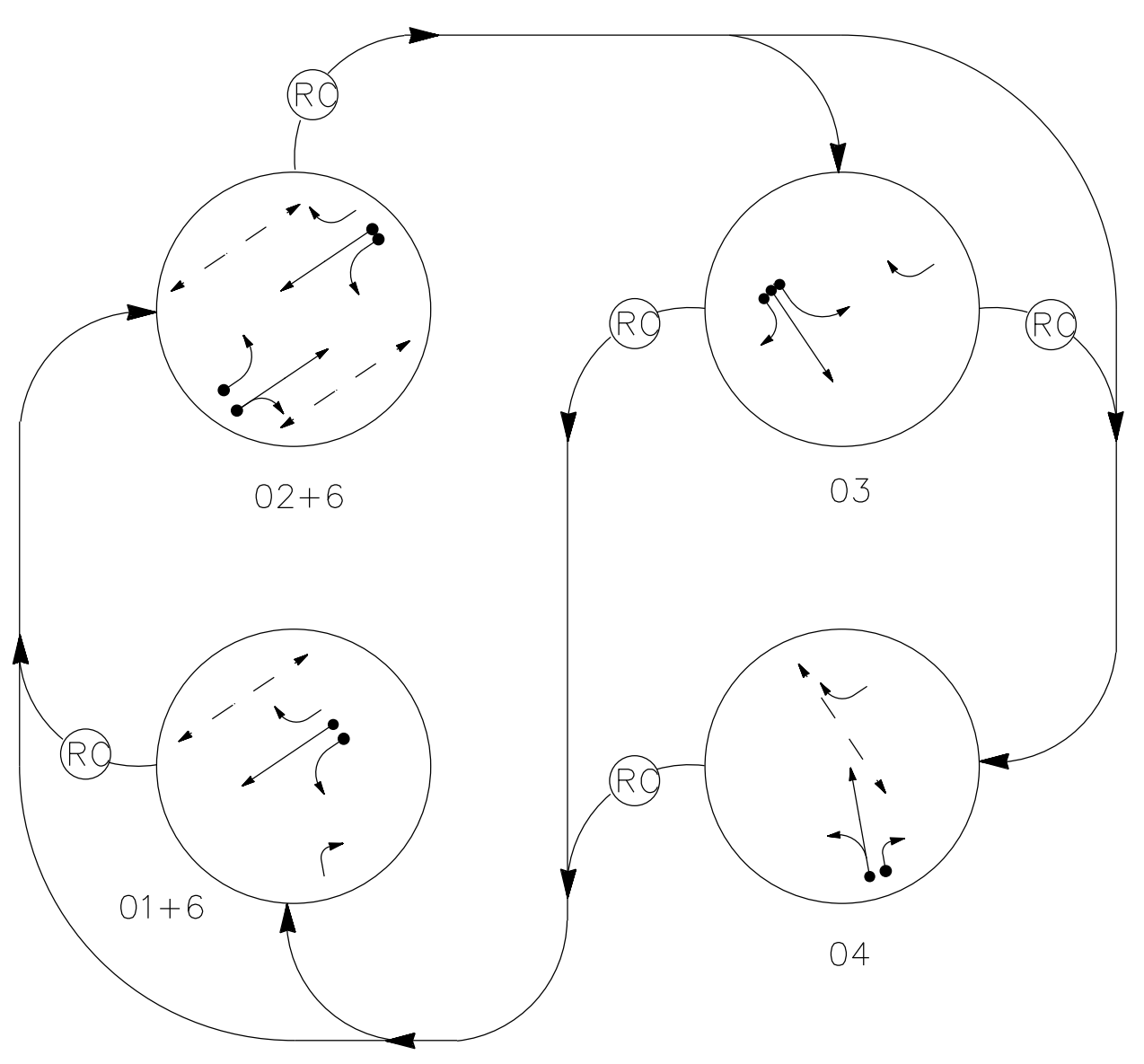


TABLE OF OPERATION

SIGNAL FACE	PHASE				
	Ø 2 + 6	Ø 3	Ø 4	Ø 1 + 6	FLASH
11	F	R	R	←	Y
21,22	G	R	R	R	Y
31	R	G	R	R	R
32,33	R	G	R	R	R
41	R	R	G	R	R
42	R	R	R	R	R
61,62	G	R	R	G	Y
P21,P22	W	DW	DW	DW	DRK
P41,P42	DW	DW	W	DW	DRK
P61,P62	W	DW	DW	DW	DRK

F = Flashing Yellow Arrow
 W - Walk
 DW - Don't Walk
 DRK - Dark

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

ASC/3 TIMING CHART

FEATURE	PHASE				
	1	2	3	4	6
Min Green *	4	10	4	4	4
Walk *	-	7	-	7	7
Ped Clear	-	17	-	12	13
Veh. Extension *	1.0	2.0	1.0	1.0	2.0
Max 1 *	20	60	20	20	60
Yellow	3.1	3.3	3.2	3.2	3.1
Red Clear	2.8	3.0	3.2	3.0	2.8
Red Revert	-	-	-	-	-
Actuations B4 Add *	-	-	-	-	-
Seconds / Actuation *	-	-	-	-	-
Max Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Locking Detector	-	X	-	-	X
Recall Position	-	MIN RECALL	-	-	MIN RECALL
Dual Entry	-	-	-	-	-
Simultaneous Gap	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.

ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING				SYSTEM LOOP	NEW CARD
					PHASE	EXTEND TIME	DELAY TIME	TYPE		
1A	6X60	0	2-4-2	N	1	-	15	S	-	Y
1B	6X60	0	2-4-2	N	1	-	15	S	-	Y
2A	6X60	0	2-4-2	N	2	-	3	S	-	Y
2B	6X6	70	4	N	2	-	-	S	-	Y
3A	6X60	0	2-4-2	N	3	-	-	S	-	Y
3B	6X60	0	2-4-2	N	3	-	-	S	-	Y
3C	6X60	0	2-4-2	N	3	-	15	S	-	Y
4A	6X60	0	2-4-2	N	4	-	3	S	-	Y
6A	6X6	70	4	N	6	-	3	S	-	Y

Signal Upgrade

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Green Street at Old Street/Bow Street

Seal: RICHARD T. PATE, PROFESSIONAL ENGINEER, No. 036842, State of North Carolina

Scale: 1" = 40'

Plan Date: NOVEMBER 2016
 Prepared By: RTP
 Reviewed By: RWT

Revisions table with columns for Revisions, Init., and Date.

Date: 11/21/2016

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