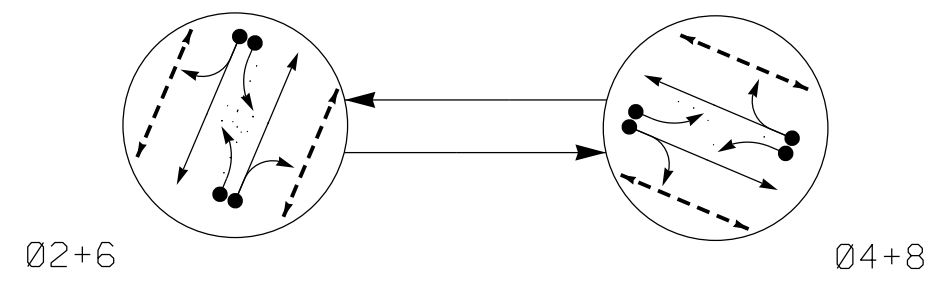


**PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

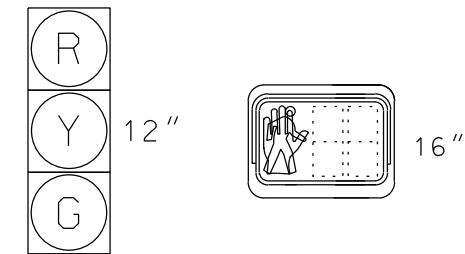
- → DETECTED MOVEMENT
- → UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ← - - - → PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE		
	02+6	04+8	FLASH
21,22	G	R	Y
41,42	R	G	R
61,62	G	R	Y
81,82	R	G	R
P21,P22	W	DW	DRK
P41,P42	DW	W	DRK
P61,P62	W	DW	DRK
P81,P82	DW	W	DRK

**SIGNAL FACE I.D.**

All Heads L.E.D.



- 21,22 P21,P22
- 41,42 P41,P42
- 61,62 P61,P62
- 81,82 P81,P82

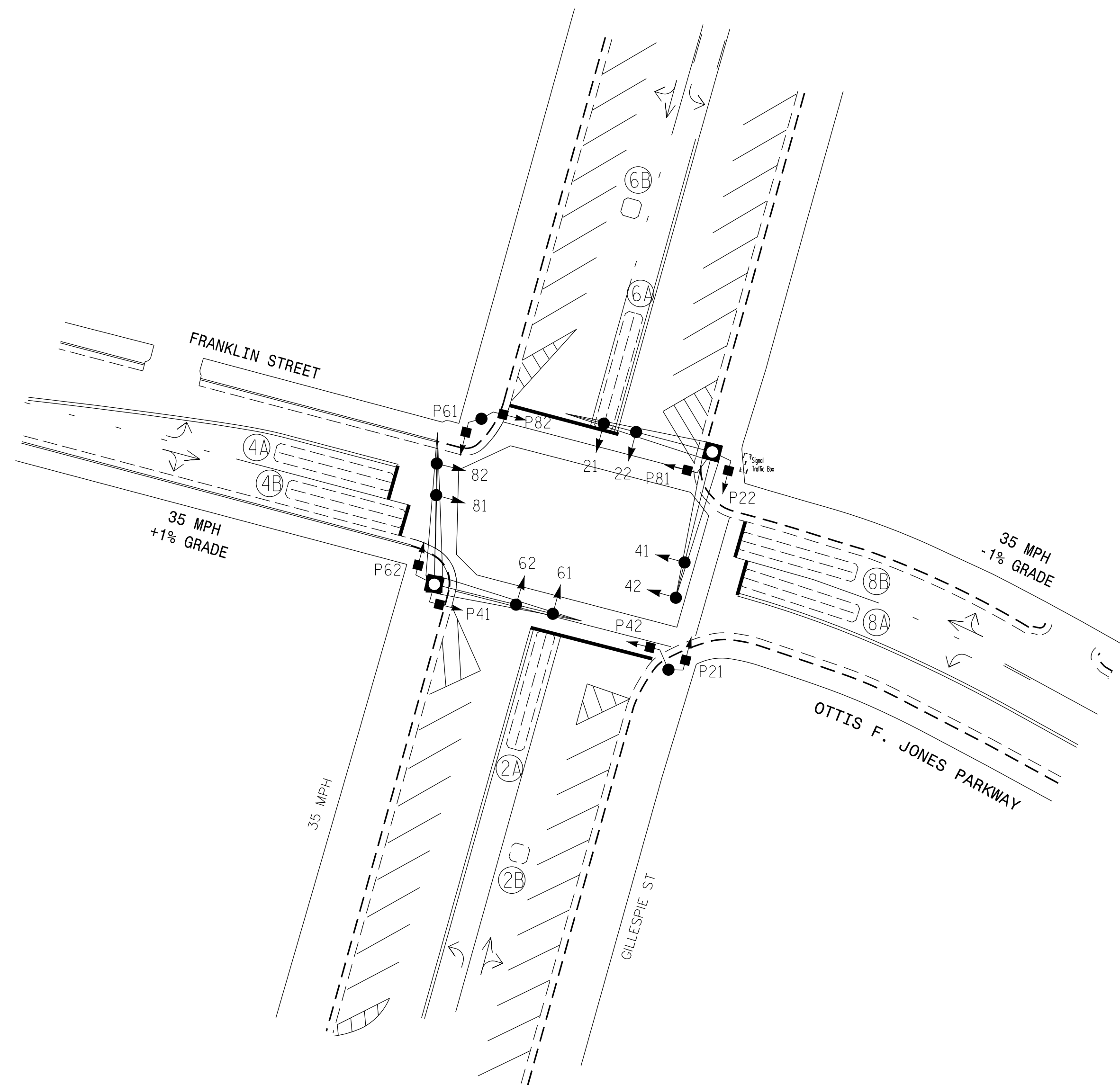
**ASC/3 DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
2A	6X40	0	2-4-2	-	2	Yes	-	-	G	-	Y
2B	6X6	70	3	-	2	Yes	-	-	S	-	Y
4A	6X40	0	2-4-2	-	4	Yes	-	-	S	-	Y
4B	6X40	0	2-4-2	-	4	Yes	-	10	S	-	Y
6A	6X40	0	2-4-2	-	6	Yes	-	-	S	-	Y
6B	6X6	70	3	-	6	Yes	-	-	S	-	Y
8A	6X40	0	2-4-2	-	8	Yes	-	-	G	-	Y
8B	6X40	0	2-4-2	-	8	Yes	-	10	S	-	Y

**2 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.
- PROGRAM PEDESTRIAN HEADS TO COUNTDOWN THE FLASHING "DON'T WALK" TIME ONLY.
- DO NOT PROGRAM SIGNAL FOR LATE NIGHT FLASHING OPERATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- SET ALL DETECTOR UNITS TO PRESENCE MODE.
- INSTALL NEW CABINET ON EXISTING FOUNDATION.



**ASC/3 TIMING CHART**

FEATURE	PHASE			
	2	4	6	8
Min Green *	10	7	10	7
Walk *	7	7	7	7
Ped Clear	10	20	7	17
Veh. Extension *	2.0	2.0	2.0	2.0
Max 1 *	30	20	30	20
Yellow	3.2	3.1	3.2	3.2
Red Clear	1.7	2.8	1.7	2.8
Red Revert	0.0	0.0	0.0	0.0
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	-	X	-	X
Simultaneous Gap	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**

- | PROPOSED   | EXISTING  |
|--|-----------|
| ○ → Traffic Signal Head                            | ● → N/A   |
| ● → Modified Signal Head                           | ○ → N/A   |
| □ → Sign   | □ → N/A   |
| □ → Pedestrian Signal Head With Push Button & Sign | □ → N/A   |
| ○ → Signal Pole with Guy                           | ○ → N/A   |
| ○ → Signal Pole with Sidewalk Guy                  | ○ → N/A   |
| □ → Inductive Loop Detector                        | □ → N/A   |
| □ → Controller & Cabinet                           | □ → N/A   |
| □ → Junction Box                                   | □ → N/A   |
| □ → 2-in Underground Conduit                       | □ → N/A   |
| N/A → Right of Way                                 | N/A → N/A |
| → → Directional Arrow                              | → → N/A   |

**Signal Upgrade**

Prepared In the Offices of:  
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HATCH MOTT MACDONALD & E, LLC  
LICENSE NO. F-4669

**GILLESPIE STREET AT FRANKLIN STREET/OTTIS F. JONES PARKWAY**

DIV 06 CUMBERLAND COUNTY FAYETTEVILLE

PLAN DATE: NOVEMBER 2016 REVIEWED BY: RWT

PREPARED BY: RTP REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL

Documented by: **Richard T. Pate** 11/21/2016

SIG. INVENTORY NO. C008

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