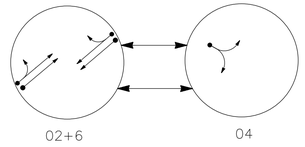
PROJECT REFERENCE NO.	SHEET NO.
U-5742	SIG.284.0

2 PHASE
FULY ACTUATED
FAYETTEVILLE SIGNAL SYSTEM

PHASING DIAGRAM

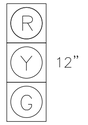


PHASING DIAGRAM
DETECTION LEGEND

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

SIGNAL FACE I.D.

ALL HEADS L.E.D.



21, 22, 23
41, 42
61, 62, 63

TABLE OF OPERATION

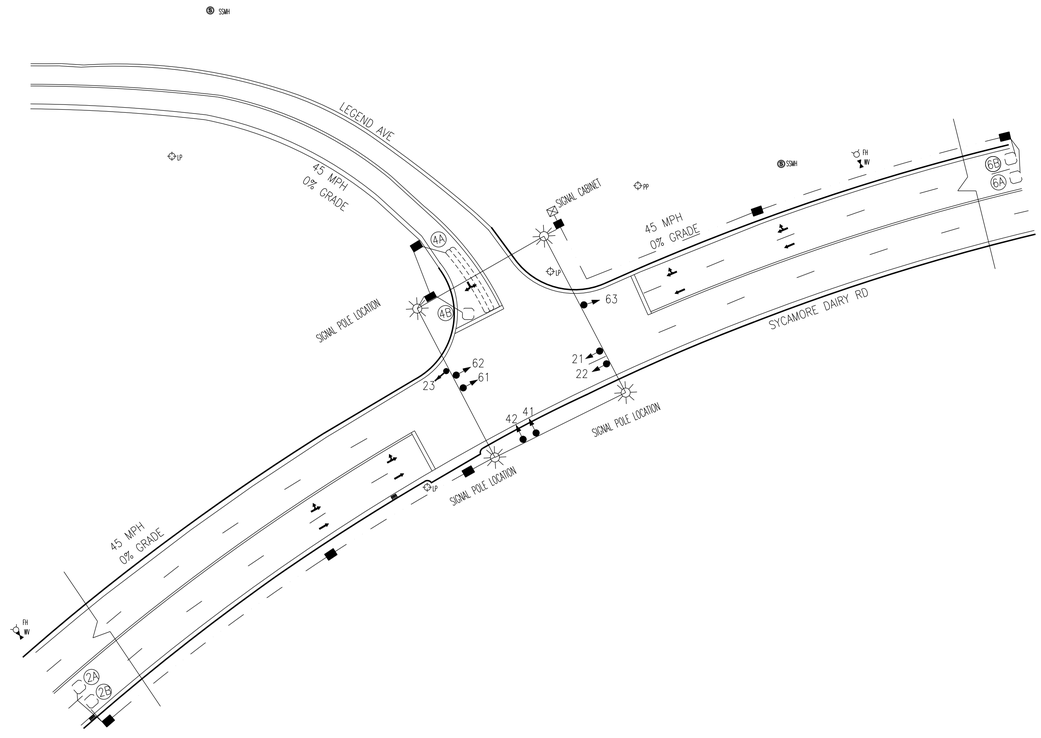
SIGNAL FACE	PHASE 2+6	PHASE 4	PHASE FLASH
21,22,23	G	R	Y
41,42	R	G	R
61,62,63	G	R	Y

ASC/3 DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
2A	6X6	300	4	-	2	-	-	S	-	Y
2B	6X6	300	4	-	2	-	-	S	-	Y
4A	6X40	0	2-4-2	-	4	-	3	S	-	Y
4B	6X6	0	4	-	4	-	15	S	-	Y
6A	6X6	300	4	-	6	-	-	S	-	Y
6B	6X6	300	4	-	6	-	-	S	-	Y

NOTES

1. REFER TO "ROADWAY STANDARD DRAWINGS NCDOT" DATED JULY 2012 AND STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES DATED JULY 2012.
2. DO NOT PROGRAM SIGNAL FOR LATE NIGHT FLASHING OPERATION UNLESS OTHERWISE DIRECTED BY ENGINEER.
3. SET ALL DETECTOR UNITS TO PRESENCE MODE.
4. LOCATE NEW CABINET ON EXISTING FOUNDATION.
5. MAXIMUM TIMES SHOWN IN TIMING CHART ARE FOR FREE-RUN OPERATION ONLY. COORDINATED SIGNAL SYSTEM TIMING VALUES SHALL SUPERCEDE THESE VALUES.
6. PAVEMENT MARKINGS ARE EXISTING.



ASC/3 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6
Min Green *	12	7	12
Walk *	0	0	0
Ped Clear	0	0	0
Veh. Extension *	6.0	2.0	6.0
Max 1 *	75	25	75
Yellow	4.6	3.0	4.6
Red Clear	1.3	1.9	1.2
Actuations B4 Add *	-	-	-
Seconds /Actuation *	1.5	-	1.5
Max Initial *	34	-	34
Time Before Reduction *	15	-	15
Time To Reduce *	30	-	30
Minimum Gap	3.0	-	3.0
Locking Detector	X	-	X
Recall Position	MIN. RECALL	-	MIN. RECALL
Dual Entry	-	-	-
Simultaneous Gap	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	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	

Signal Upgrade

Prepared in the Offices of:
Hatch Mott MacDonald
PO Box 700
Fuquay-Varina, NC 27526
www.hatchmott.com
HATCH MOTT MACDONALD I & E, LLC
LICENSE NO. F-0669

Fayetteville Next Launches

SCALE 0 40

SYCAMORE DAIRY ROAD
AT
LEGEND AVENUE

DIV 06 | CUMBERLAND COUNTY | FAYETTEVILLE

PLAN DATE:	NOVEMBER 2016	REVIEWED BY:	RWT
PREPARED BY:	BLR	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 032711 ENGINEER RUSSELL W. THOMPSON

DocuSigned by: Russell W Thompson 11/21/2016
PROFESSIONAL SIGNATURE DATE

SIG. INVENTORY NO. C022

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