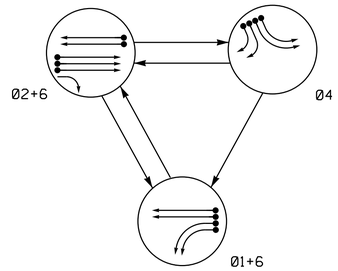
PROJECT REFERENCE NO.	SHEET NO.
U-5742	Sig. 73.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

RAIL PREEMPT PHASES

(High Priority)

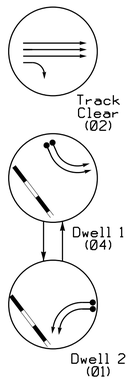
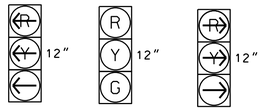


TABLE OF OPERATION

SIGNAL FACE	PHASE 01+6	PHASE 02+6	PHASE 04	PHASE TRACK CLEAR	PHASE DWELL 1	PHASE DWELL 2	PHASE FLASH
11, 12	←	R	R	R	R	←	R
21, 22, 23	R	G	R	G	R	R	Y
41, 42	R	R	←	R	←	R	R
43, 44	R	R	→	R	R	R	R
61, 62	G	G	R	R	R	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.



11, 12
41, 42

21, 22, 23
61, 62

43, 44

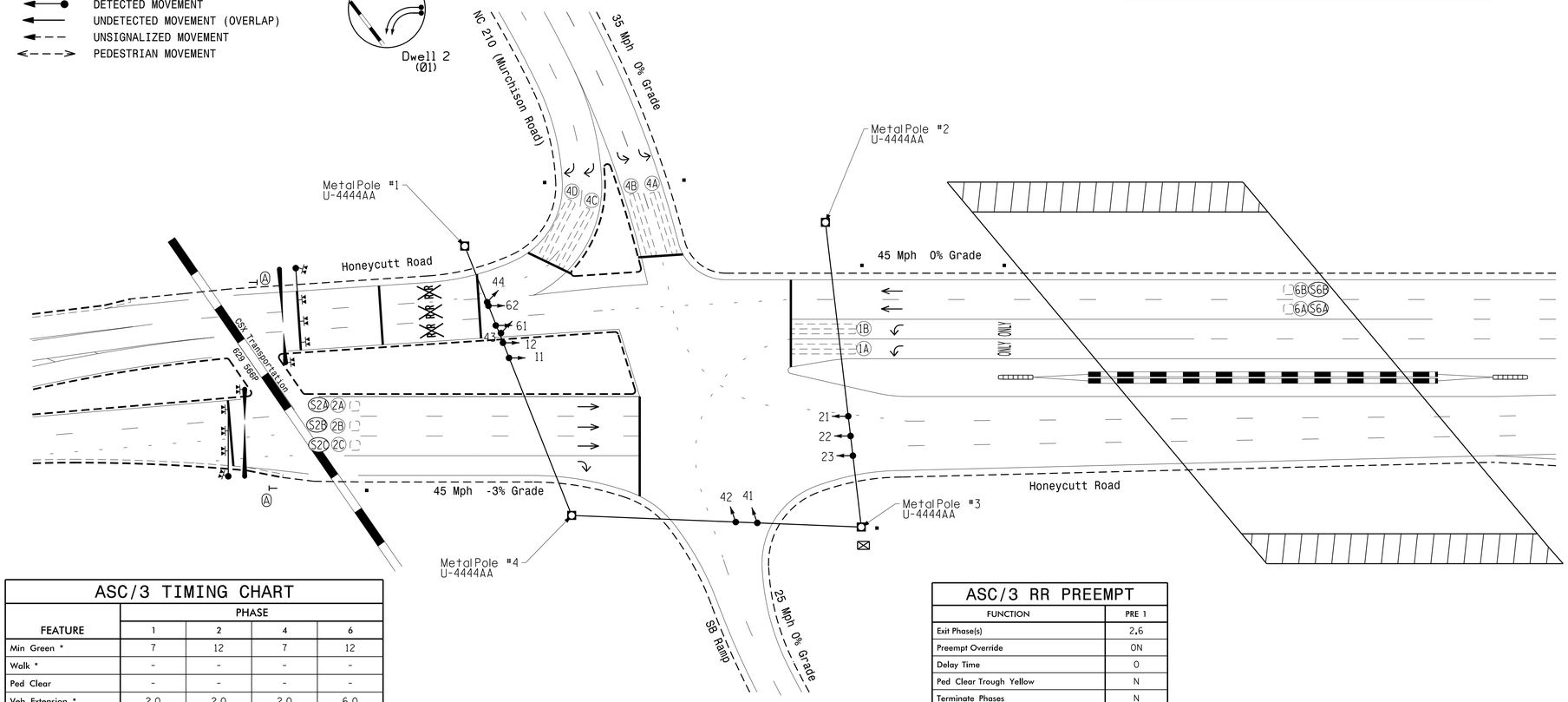
ASC/3 DETECTOR INSTALLATION CHART

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	-	-	S	-	X
1B	6X40	0	2-4-2	-	1	Yes	-	-	S	-	X
2A/S2A	6X6	170	5	-	2	Yes	-	-	N	X	X
2B/S2B	6X6	170	5	-	2	Yes	-	-	N	X	X
2C/S2C	6X6	170	5	-	2	Yes	-	-	N	X	X
4A	6X40	0	2-4-2	-	4	Yes	-	-	S	-	X
4B	6X40	0	2-4-2	-	4	Yes	-	-	S	-	X
4C	6X40	0	2-4-2	-	4	Yes	-	15	S	-	X
4D	6X40	0	2-4-2	-	4	Yes	-	15	S	-	X
6A/S6A	6X6	300	5	-	6	Yes	-	-	N	X	X
6B/S6B	6X6	300	5	-	6	Yes	-	-	N	X	X

3 Phase
Fully Actuated w/ RR Preemption
Fayetteville Signal System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. This location contains railroad preemption phasing. Do not program signal for late night flashing operation.
3. Phase 1 may be lagged.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Program parent phases for Overlap "P" for all phases used in normal operation.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	Sign	⊣
□	Pedestrian Signal Head With Push Button & Sign	■
○	Signal Pole with Guy	●
○	Signal Pole with Sidewalk Guy	●
◎	Metal Strain Pole	□
▭	Inductive Loop Detector	▭
N/A	Sensys Detector	⊙
⊠	Controller & Cabinet	⊠
□	Junction Box	■
	2-in Underground Conduit	
N/A	Right of Way	
→	Directional Arrow	→
N/A	Railroad Cantilever and Flasher	
N/A	Railroad Tracks	
N/A	Railroad Gate and Flasher	

Ⓐ "DO NOT STOP ON TRACKS" Sign (R8-8) Ⓐ

ASC/3 TIMING CHART

FEATURE	PHASE 1	PHASE 2	PHASE 4	PHASE 6
Min Green *	7	12	7	12
Walk *	-	-	-	-
Ped Clear	-	-	-	-
Veh. Extension *	2.0	2.0	2.0	6.0
Max 1 *	20	60	35	90
Yellow	3.0	4.8	3.8	4.8
Red Clear	3.3	2.5	2.9	2.5
Red Revert	-	-	-	-
Actuations B4 Add *	-	-	-	0
Seconds /Actuation *	-	-	-	1.5
Max Initial *	-	-	-	34
Time Before Reduction *	-	-	-	15
Time To Reduce *	-	-	-	45
Minimum Gap	-	-	-	3.0
Locking Detector	-	X	-	X
Recall Position	-	VEH. RECALL	-	VEH. RECALL
Dual Entry	-	-	-	-
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.

ASC/3 RR PREEMPT

FUNCTION	PRE 1
Exit Phase(s)	2,6
Preempt Override	ON
Delay Time	0
Ped Clear Trough Yellow	N
Terminate Phases	N
Track Clear Reservice	Y
Entrance Walk	-
Entrance Ped Clear	-
Entrance Min Green	1
Entrance Yellow Change	25.5*
Entrance Red Clear	25.5*
Track Clear Min Green	38
Track Clear Yellow Change	25.5*
Track Clear Red Clear	25.5*
Min Dwell Time	7
Exit Yellow Change	25.5*
Exit Red Clear	25.5*

* Allows normal phase times to be used.

This signal was designed for advanced preemption.

Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:
Transportation Mobility and Safety Division
Traffic Engineering Branch
Signal Design Section
750 N.Greenfield Pkwy.Garner,NC 27529

Honeycutt Road at NC 210 (Murchison Road) SB Ramps

Division 6 Cumberland County Spring Lake

PLAN DATE:	May 2016	REVIEWED BY:	JPG
PREPARED BY:	DJS/IOU	REVIEWED BY:	

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 029904 ENGINEER JASON P. GALLOWAY

DocuSigned by: Jason P. Galloway F700EA7048184 1D... 9/19/2016 DATE

SIG. INVENTORY NO. 06-0293

19-SEP-2016 10:53
S:*ITSASU#1TS Signals\Signal Design Section\Eastern Region\Div-06\U-5742 Fayetteville ASC3*06-0293*060293_sig_dsn_2016mmds.dgn
jrspence