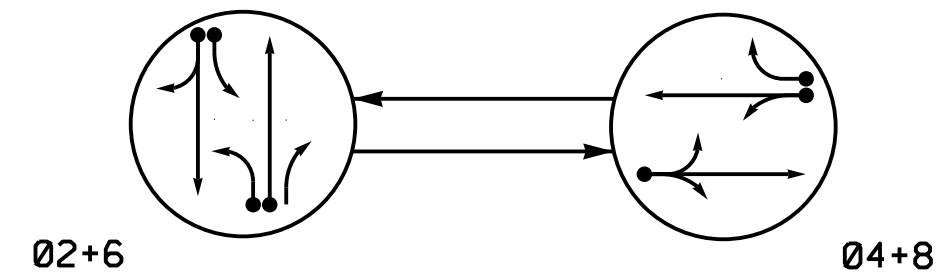


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02+6	04+8	F L S H
21,22	G	R	Y
41,42	R	G	R
61,62	G	R	Y
81,82	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.

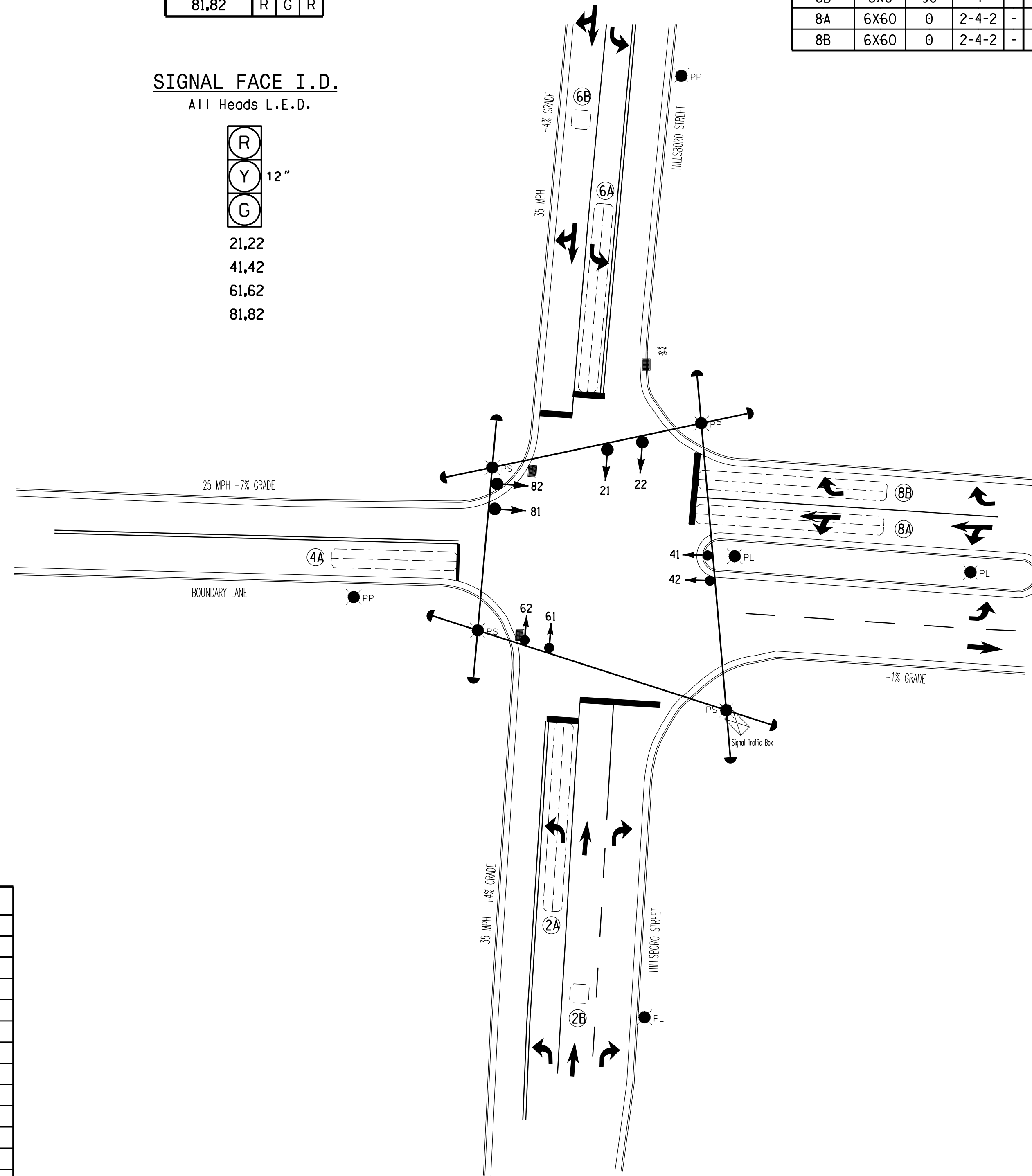


LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD	
2A	6X60	0	2-4-2	-	2	Yes	-	-	-	S	-	Y
2B	6X6	90	4	-	2	Yes	-	-	-	S	-	Y
4A	6X40	0	2-4-2	-	4	Yes	-	-	-	S	-	Y
6A	6X60	0	2-4-2	-	6	Yes	-	-	-	S	-	Y
6B	6X6	90	4	-	6	Yes	-	-	-	S	-	Y
8A	6X60	0	2-4-2	-	8	Yes	-	-	-	S	-	Y
8B	6X60	0	2-4-2	-	2	Yes	-	10	-	S	-	Y

2 PHASE FULLY ACUTATED FAYETTEVILLE SIGNAL SYSTEM

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 the engineer.
3. Set all detector units to presence mode.
4. In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the City Traffic Engineer.
5. Maximum times shown in the timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
6. Locate new cabinet on existing foundation.



FEATURE	PHASE			
	2	4	6	8
Min Green *	10	7	10	0
Walk *	0	0	0	0
Ped Clear	0	0	0	0
Veh. Extension *	2.0	1.0	2.0	1.0
Max 1 *	35	20	35	20
Yellow	3.6	3.6	4.1	3.0
Red Clear	1.8	1.7	1.3	2.5
Actuations B4 Add *	-	-	-	-
Seconds / Actuation *	-	-	-	-
Max Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Locking Detector	X	-	X	-
Recall Position	VEH. RECALL	-	VEH. 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.

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

Signal Upgrade

Prepared In the Offices of:  
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 HATCH MOTT MACDONALD & E, LLC  
 LICENSE NO. P-4060

 <b>FAYETTEVILLE</b> NORTH CAROLINA PROFESSIONAL ENGINEER RUSSELL W. THOMPSON 032711		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER RUSSELL W. THOMPSON 032711
HILLSBORO STREET AT BOUNDARY LANE		DIV 06 CUMBERLAND COUNTY FAYETTEVILLE PLAN DATE: NOVEMBER 2016 REVIEWED BY: RWT PREPARED BY: BLR REVIEWED BY:
SCALE 0 25	REVISIONS INIT. DATE	DocuSigned by: Russell W. Thompson 11/21/2016 DATE SIG. INVENTORY NO. C012

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