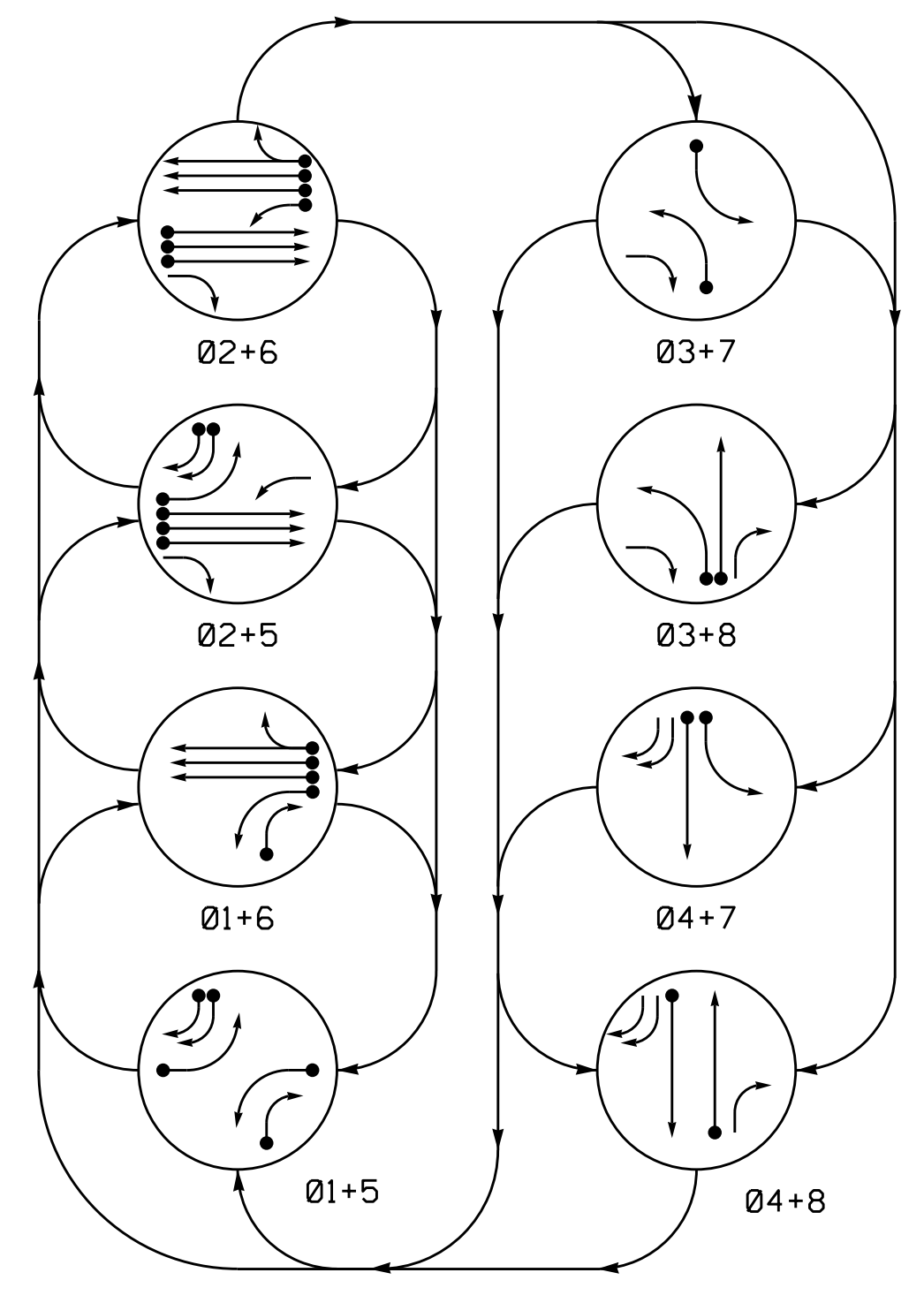


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

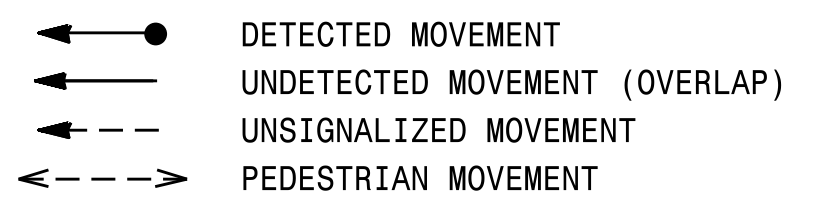
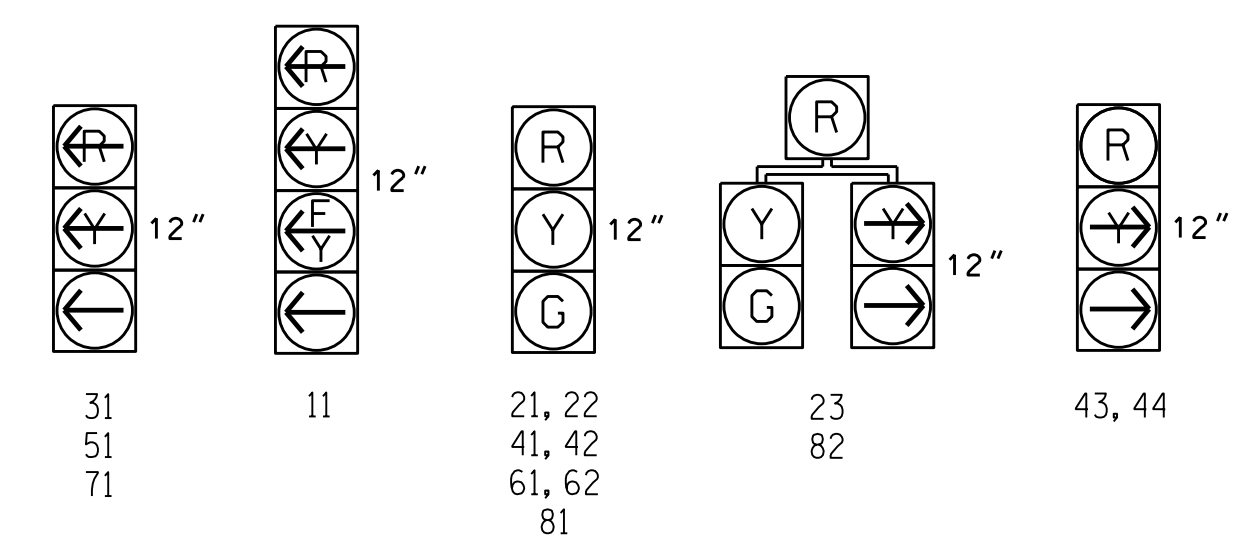


TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11	—	—	F	F	R	R	R	Y
21, 22	R	R	G	G	R	R	R	Y
23	R	R	G	G	R	R	R	Y
31	R	R	R	R	—	—	R	R
41, 42	R	R	R	R	R	R	G	R
43, 44	R	R	R	R	R	R	—	R
51	—	—	—	—	R	R	R	R
61, 62	R	G	R	G	R	R	R	Y
71	R	R	R	R	—	—	R	R
81	R	R	R	R	R	G	R	R
82	R	R	R	R	R	G	R	R

SIGNAL FACE I.D.

All Heads L.E.D.



ASC/3 DETECTOR INSTALLATION CHART

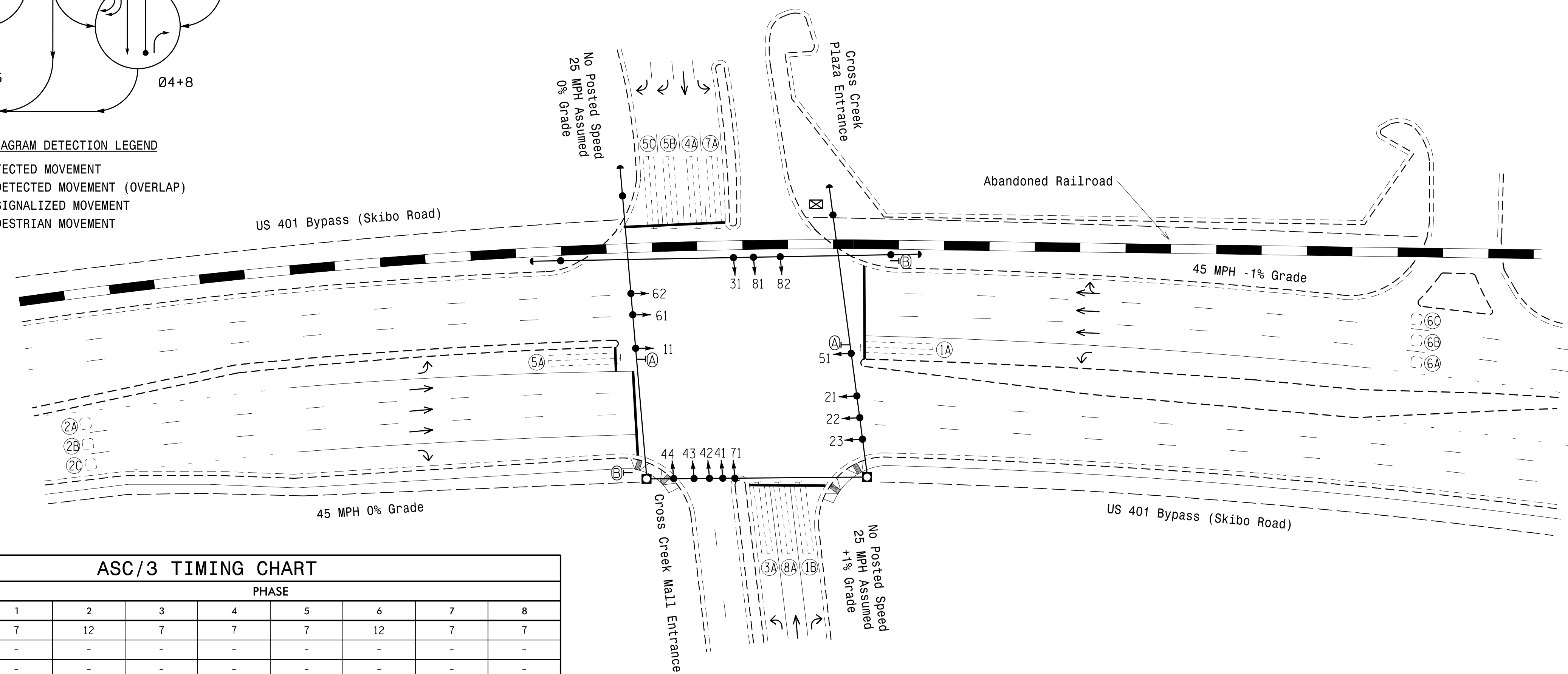
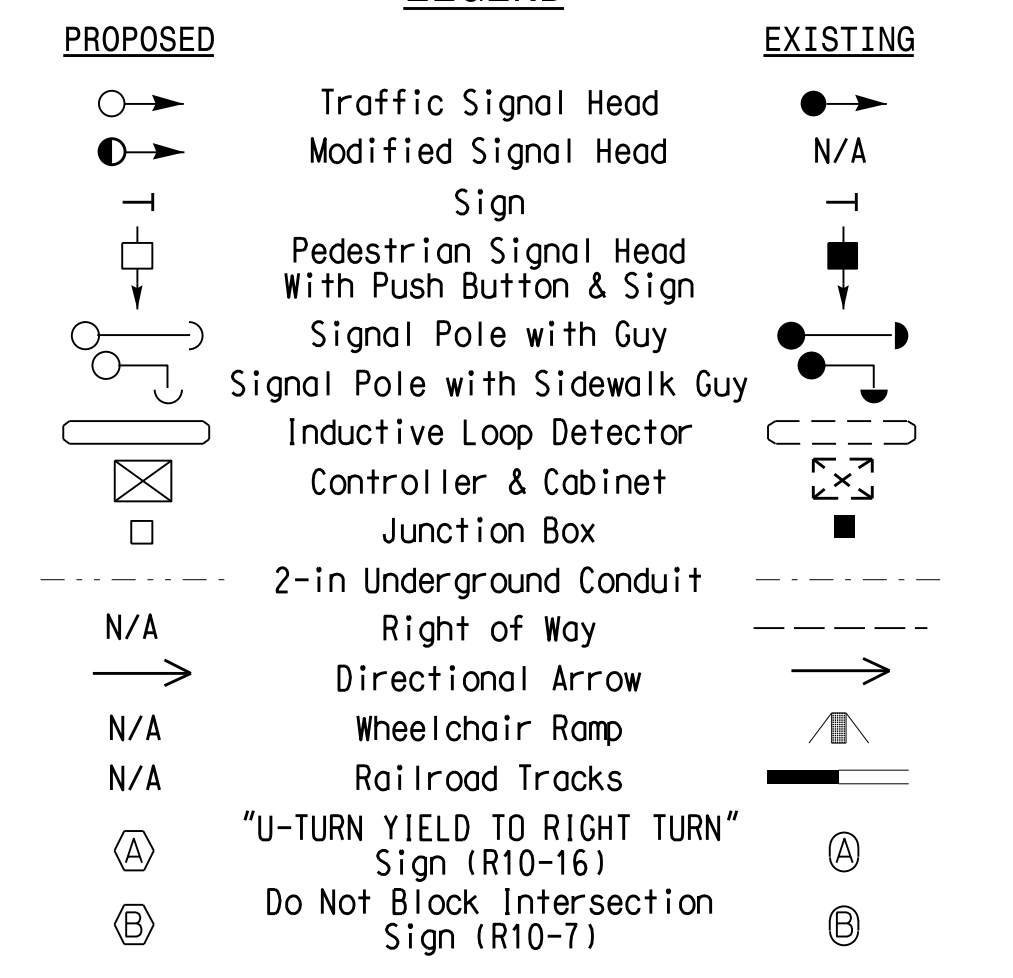
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	+5	2-4-2	-	1	Yes	-	15	S	-	X
					6	Yes	-	3	G	-	X
1B	6X40	+5	2-4-2	-	1	Yes	-	20	S	-	X
2A	6X6	300	4	-	2	Yes	-	-	N	-	X
2B	6X6	300	4	-	2	Yes	-	-	N	-	X
2C	6X6	300	4	-	2	Yes	-	-	N	-	X
3A	6X40	+5	2-4-2	-	3	Yes	-	-	S	-	X
4A	6X40	+5	2-4-2	-	4	Yes	-	-	S	-	X
5A	6X40	+5	2-4-2	-	5	Yes	-	-	S	-	X
5B	6X40	+5	2-4-2	-	5	Yes	-	20	S	-	X
5C	6X40	+5	2-4-2	-	5	Yes	-	20	S	-	X
6A	6X6	300	4	-	6	Yes	-	-	N	-	X
6B	6X6	300	4	-	6	Yes	-	-	N	-	X
6C	6X6	300	4	-	6	Yes	-	-	N	-	X
7A	6X40	+5	2-4-2	-	7	Yes	-	-	S	-	X
8A	6X40	+5	2-4-2	-	8	Yes	-	-	S	-	X

8 Phase Fully Actuated 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. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Phase 3 and/or phase 7 may be lagged.
5. Set all detector units to presence mode.
6. In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
8. Pavement markings are existing.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND



ASC/3 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	12	7	7	7	12	7	7
Walk *	-	-	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max 1 *	20	120	15	40	20	120	15	40
Yellow	3.0	4.6	3.0	3.2	3.0	4.6	3.0	3.2
Red Clear	3.3	1.8	3.3	3.3	3.2	1.8	3.3	3.3
Red Revert	-	-	-	-	-	-	-	-
Actuations B4 Add *	-	-	-	-	-	-	-	-
Seconds /Actuation *	-	1.2	-	-	-	1.2	-	-
Max Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	20	-	-	-	20	-	-
Time To Reduce *	-	40	-	-	-	40	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Locking Detector	-	X	-	-	-	X	-	-
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALL	-	-
Dual Entry	-	-	-	X	-	-	-	X
Simultaneous Gap	X	X	X	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.

Signal Upgrade

Prepared In the Offices of:

 750 N. Greenfield Pkwy, Garner, NC 27529

US 401 Bypass (Skibo Road) at Cross Creek Mall and Cross Creek Plaza
 Division 6 Cumberland County Fayetteville
 PLAN DATE: December 2015 REVIEWED BY: JG
 PREPARED BY: Devin Smith REVIEWED BY: JG

SCALE: 1"=40'

REVISIONS: _____ INIT. DATE

DocuSigned by: Jason P. Gallaway 3/31/2016
 SEAL: 029904
 SIG. INVENTORY NO. 06-0705

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

S:\1405-2016-11-31-SIGNAL\Signal Design\Section\Eastern Region\04\U-5742 Fayetteville\11e ASC\3\66-0705\60705_s1a.dsn_20160331.dgn
 J.P.G.