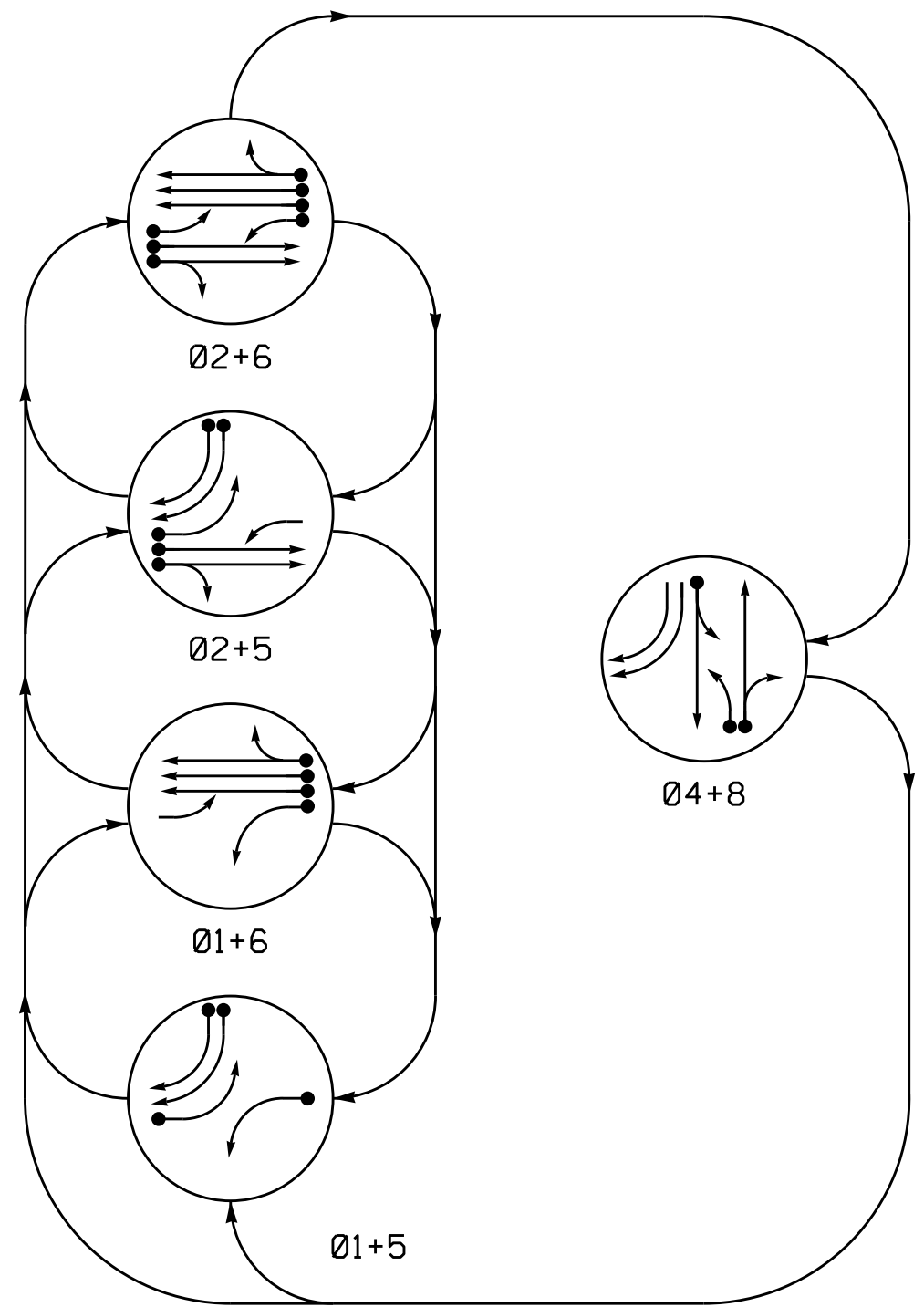
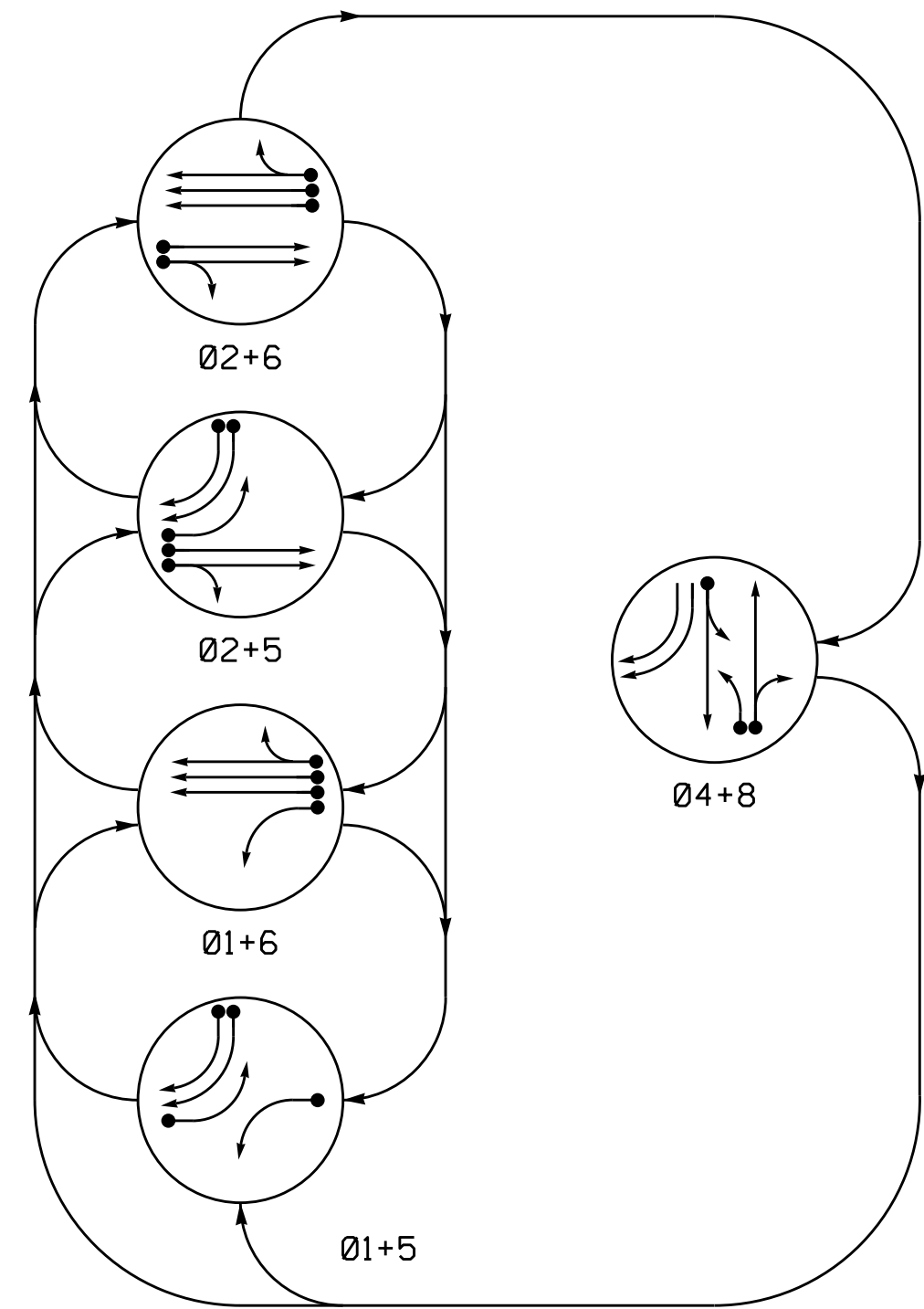


DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	F L
11	-	-	F	F	R	Y
22, 23	R	R	G	G	R	Y
41	R	R	R	R	G	R
42, 43	R	R	R	R	G	R
51	-	-	F	F	R	Y
62, 63	R	G	R	G	R	Y
81, 82	R	R	R	R	G	R

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	F L
11	-	-	R	R	R	Y
22, 23	R	R	G	G	R	Y
41	R	R	R	R	G	R
42, 43	R	R	R	R	G	R
51	-	-	R	R	R	Y
62, 63	R	G	R	G	R	Y
81, 82	R	R	R	R	G	R

ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING				SYSTEM LOOP	NEW CARD
					PHASE	EXTEND TIME	DELAY TIME	TYPE		
1A	6X40	+5	2-4-2	-	1	-	*15	S	-	X
2A, 2B	6X6	300	6	-	2	-	-	S	-	X
4A	6X60	0	2-4-2	-	4	-	3	S	-	X
5A	6X40	+5	2-4-2	-	5	-	*15	S	-	X
5B	6X60	0	2-4-2	-	5	-	15	S	-	X
5C	6X60	0	2-4-2	-	5	-	15	S	-	X
6A, 6B, 6C	6X6	300	4	-	6	-	-	S	-	X
8A	6X40	+5	2-4-2	-	8	-	3	S	-	X
8B	6X40	+5	2-4-2	-	8	-	10	S	-	X
S2A	6X6	+278	5	-	-	-	-	N	X	X
S2B	6X6	+278	5	-	-	-	-	N	X	X
S6A	6X6	+252	5	-	-	-	-	N	X	X
S6B	6X6	+252	5	-	-	-	-	N	X	X
S6C	6X6	+252	5	-	-	-	-	N	X	X

* Disable Delay During Alternate Phasing Operation.
 ** Disable Phase 2/6 CallFor Loops 1A and 5A During Alternate Phasing Operation.

5 Phase Fully Actuated Fayetteville Signal System

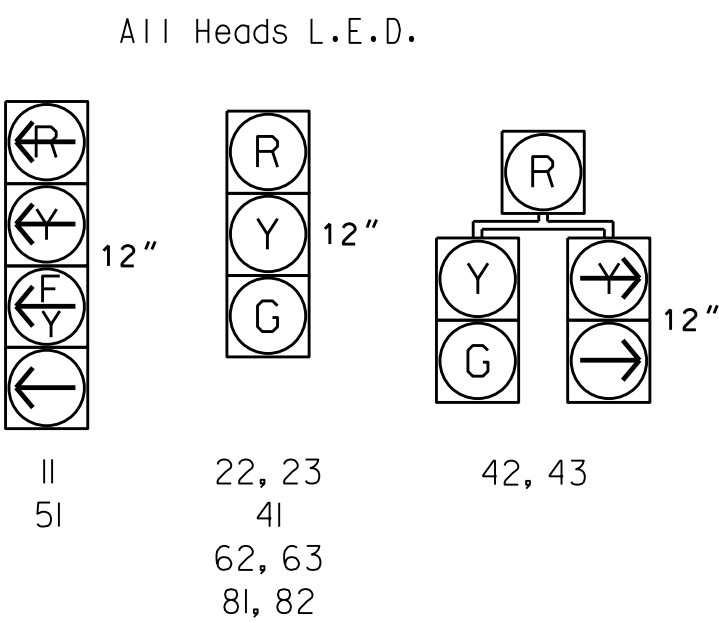
NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Set all detector units to presence mode.
- 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.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.
- Sign "A" may be removed at the discretion of the Regional Traffic Engineer.
- The Division Traffic Engineer will determine the hours of each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND

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

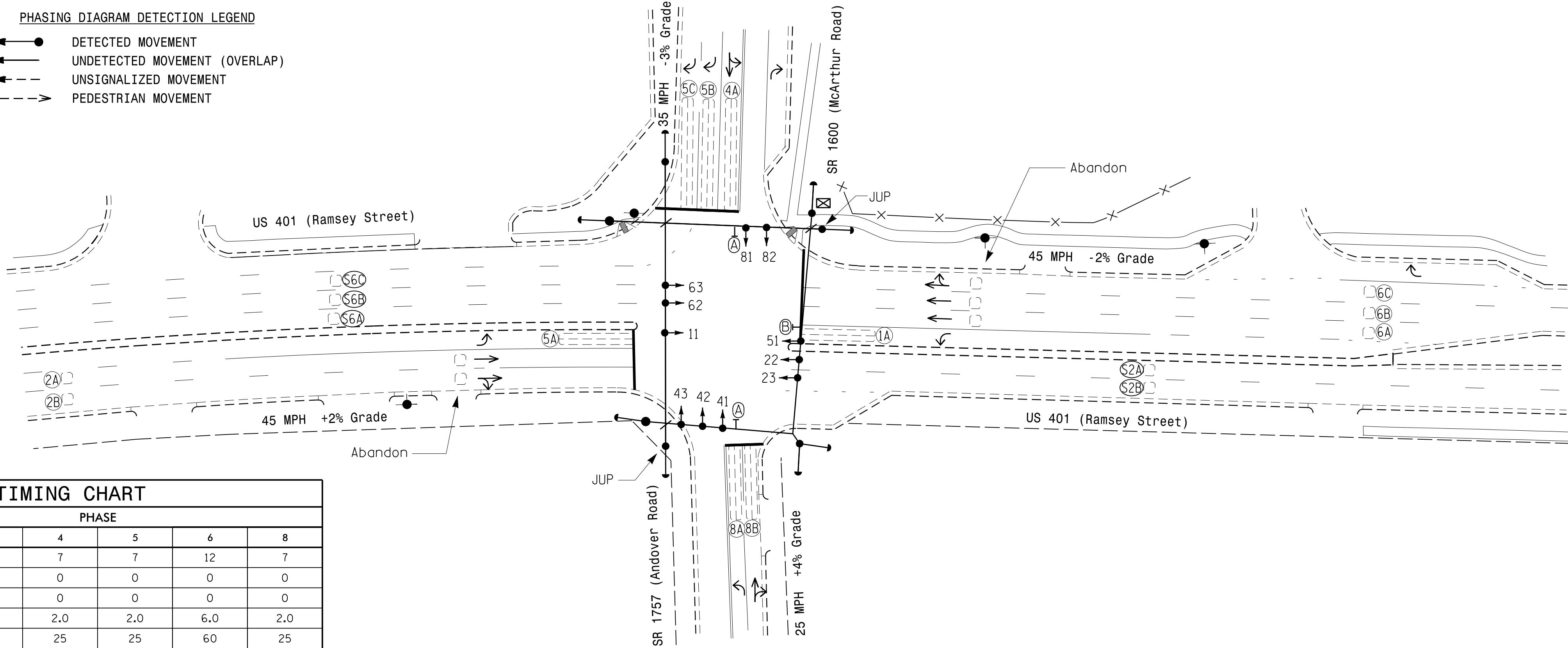
SIGNAL FACE I.D.



ASC/3 TIMING CHART

FEATURE	PHASE						
	1	2	4	5	6	8	
Min Green *	7	12	7	7	12	7	
Walk *	0	0	0	0	0	0	
Ped Clear	0	0	0	0	0	0	
Veh. Extension *	2.0	6.0	2.0	2.0	6.0	2.0	
Max 1 *	20	60	25	25	60	25	
Yellow	3.0	4.7	4.2	3.0	4.7	4.2	
Red Clear	1.9	1.3	2.8	2.6	1.3	2.8	
Actuations B4 Add *	-	0	-	-	0	-	
Seconds / Actuation *	-	2.0	-	-	2.0	-	
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	-	VEH. RECALL	-	-	VEH. RECALL	-	
Dual Entry	-	-	X	-	-	X	
Simultaneous Gap	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.



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
Right of Way	N/A
Directional Arrow	N/A
Wheel Chair Ramp	N/A
Fence	N/A
"LEFT TURN YIELD ON GREEN" Sign (R10-12)	N/A
"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	N/A

Signal Upgrade

US 401 (Ramsey Street) at SR 1600 (McArthur Road) and SR 1757 (Andover Road)

Division 6 Cumberland County Fayetteville

PLAN DATE: November 2015 REVIEWED BY: JPG

PREPARED BY: KGP, Jr. REVIEWED BY:

REVISIONS: INIT. DATE

SCALE: 1"=40'

750 N. Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER JASON P. GALLOWAY 029904

DATE: 7/8/2016

SIG. INVENTORY NO. 06-0237

08-JUL-2016 08:39
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