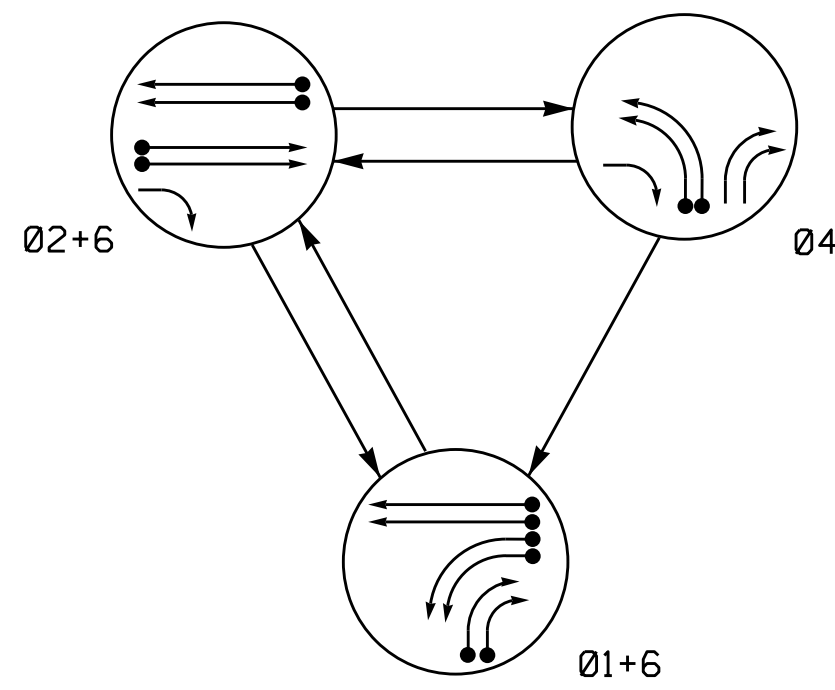


PHASING DIAGRAM



SIGNAL FACE	PHASE			
	01+6	02+6	04	F LOST
11,12	←	←	←	←
21	R	G	R	Y
22	R	G	Y	Y
41,42	←	←	←	←
43,44	←	R	←	R
61,62	G	G	R	Y

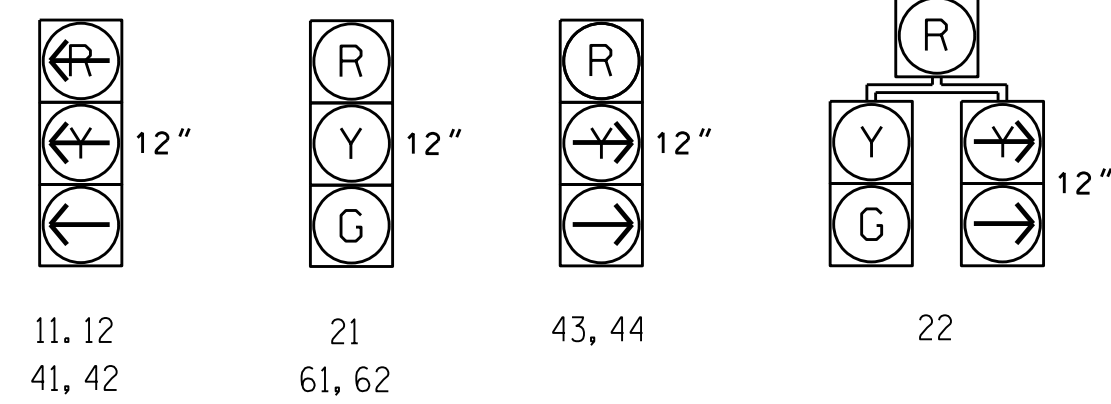
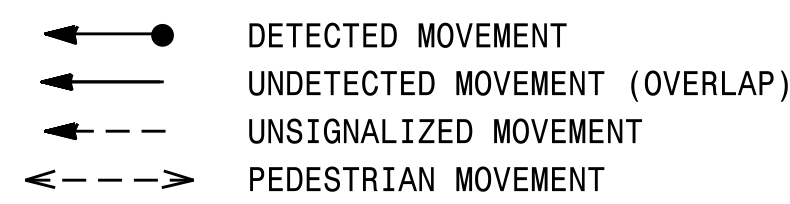
ASC/3 DETECTOR INSTALLATION CHART										
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING					
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP
1A	6X60	0	2-4-2	-	1	Yes	-	-	S	- X
1B	6X60	0	2-4-2	-	1	Yes	-	-	S	- X
1C	6X60	0	2-4-2	-	1	Yes	-	15	S	- X
1D	6X60	0	2-4-2	-	1	Yes	-	15	S	- X
2A	6X6	300	5	-	2	Yes	-	-	N	- X
2B	6X6	300	5	-	2	Yes	-	-	N	- X
4A	6X60	0	2-4-2	-	4	Yes	-	3	S	- X
4B	6X60	0	2-4-2	-	4	Yes	-	-	S	- X
6A	6X6	300	5	-	6	Yes	-	-	N	- X
6B	6X6	300	5	-	6	Yes	-	-	N	- X

3 Phase Fully Actuated Fayetteville Signal System

NOTES

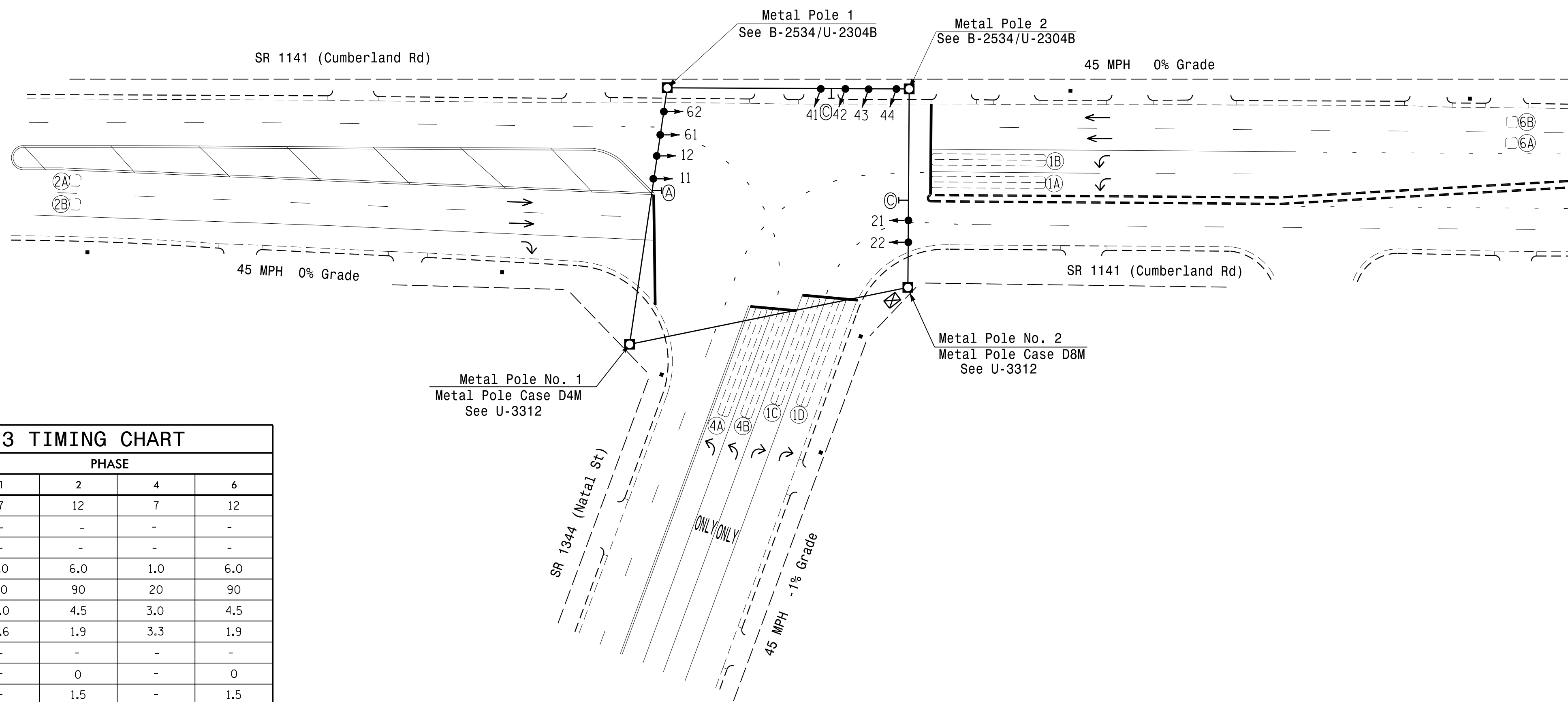
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 may be lagged.
4. Set all detector units to presence mode.
5. 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.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Pavement markings are existing.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND



FEATURE	PHASE			
	1	2	4	6
Min Green *	7	12	7	12
Walk *	-	-	-	-
Ped Clear	-	-	-	-
Veh. Extension *	1.0	6.0	1.0	6.0
Max 1 *	20	90	20	90
Yellow	3.0	4.5	3.0	4.5
Red Clear	3.6	1.9	3.3	1.9
Red Revert	-	-	-	-
Actuations B4 Add *	-	0	-	0
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	-	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.



LEGEND	
PROPOSED	EXISTING
	N/A

1:4/16/2016 11:11 S:\MITS\Signal Design\Section\Eastern Region\U-5742 Fayetteville ASC\3\60-0456\0456.s1a.dsn_2015.mxd.dgn

Signal Upgrade

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 1" = 40'

Division 6 Cumberland County Fayetteville

SR 1141 (Cumberland Road) at SR 1344 (Natal Street)

PLAN DATE: December 2015 REVIEWED BY: JPG

PREPARED BY: EM Minshew REVIEWED BY:

REVISIONS: INIT. DATE

SEAL: Jason P. Callaway, Professional Engineer, No. 029904

DATE: 5/11/2016

SIG. INVENTORY NO. 06-0456

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED