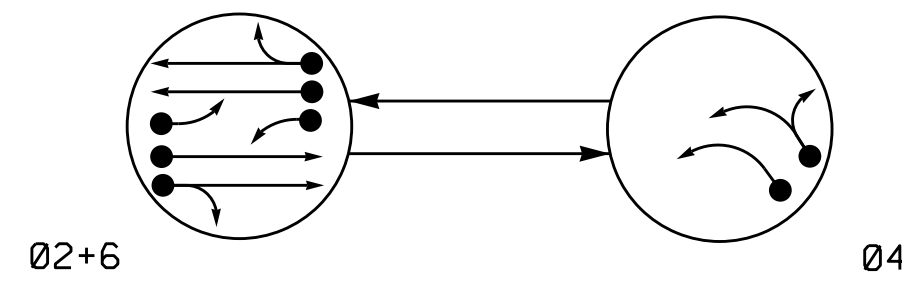


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

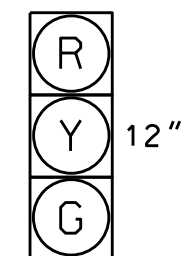
- ←●→ DETECTED MOVEMENT
- ←→ UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ←--- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02+6	04	FLASH
21,22	G	R	Y
41,42	R	G	R
61,62	G	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.



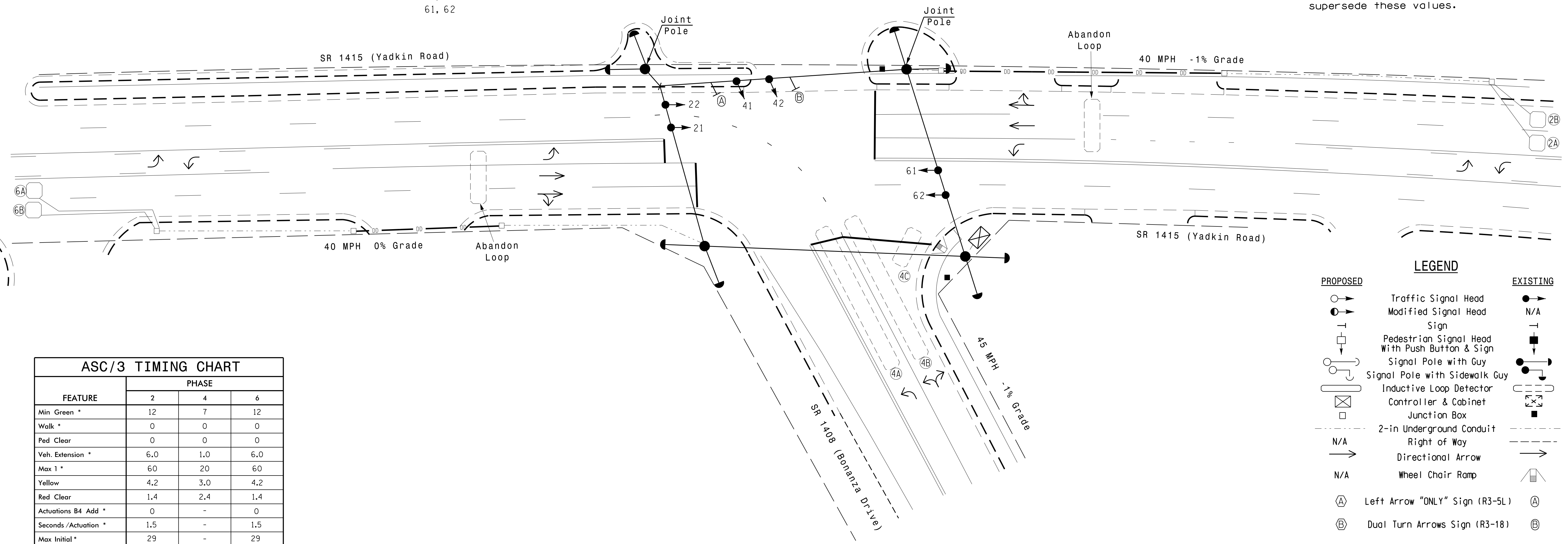
21, 22  
41, 42  
61, 62

ASC/3 DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	LOOP SYSTEM	NEW CARD
2A	6X6	250	5	X	2	Yes	-	-	N	-	X
2B	6X6	250	5	X	2	Yes	-	-	N	-	X
4A	6X60	+5	1	-	4	Yes	-	3	S	-	X
4B	6X60	+5	1	-	4	Yes	-	15	S	-	X
4C	6X15	+5	1	-	4	Yes	-	15	S	-	X
6A	6X6	250	5	X	6	Yes	-	-	N	-	X
6B	6X6	250	5	X	6	Yes	-	-	N	-	X

2 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.
- 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.
- The cabinet should be designed to include an Auxiliary Output file for future use.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



ASC/3 TIMING CHART			
FEATURE	PHASE		
	2	4	6
Min Green *	12	7	12
Walk *	0	0	0
Ped Clear	0	0	0
Veh. Extension *	6.0	1.0	6.0
Max I *	60	20	60
Yellow	4.2	3.0	4.2
Red Clear	1.4	2.4	1.4
Actuations B4 Add *	0	-	0
Seconds / Actuation *	1.5	-	1.5
Max Initial *	29	-	29
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

\* 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	●→ Traffic Signal Head
●→ Modified Signal Head	N/A
⊥ Sign	⊥ Sign
⊥ 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	⊠ Junction Box
--- 2-in Underground Conduit	--- 2-in Underground Conduit
N/A Right of Way	--- Right of Way
→ Directional Arrow	→ Directional Arrow
N/A Wheel Chair Ramp	⊠ Wheel Chair Ramp
Ⓐ Left Arrow "ONLY" Sign (R3-5L)	Ⓐ Left Arrow "ONLY" Sign (R3-5L)
Ⓑ Dual Turn Arrows Sign (R3-18)	Ⓑ Dual Turn Arrows Sign (R3-18)

Signal Upgrade

	<p>SR 1415 (Yadkin Road) at SR 1408 (Bonanza Drive)</p>		<p>SEAL JASON P. GALLOWAY ENGINEER 029904</p>
	<p>Division 6 Cumberland County Fayetteville</p> <p>PLAN DATE: April 2016 REVIEWED BY: JPG, PE</p> <p>PREPARED BY: EM Minshew REVIEWED BY:</p>	<p>750 N. Greenfield Pkwy, Garner, NC 27529</p> <p>SCALE 0 20 1"=20'</p>	

01-10-2016 11:40  
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 emminshew