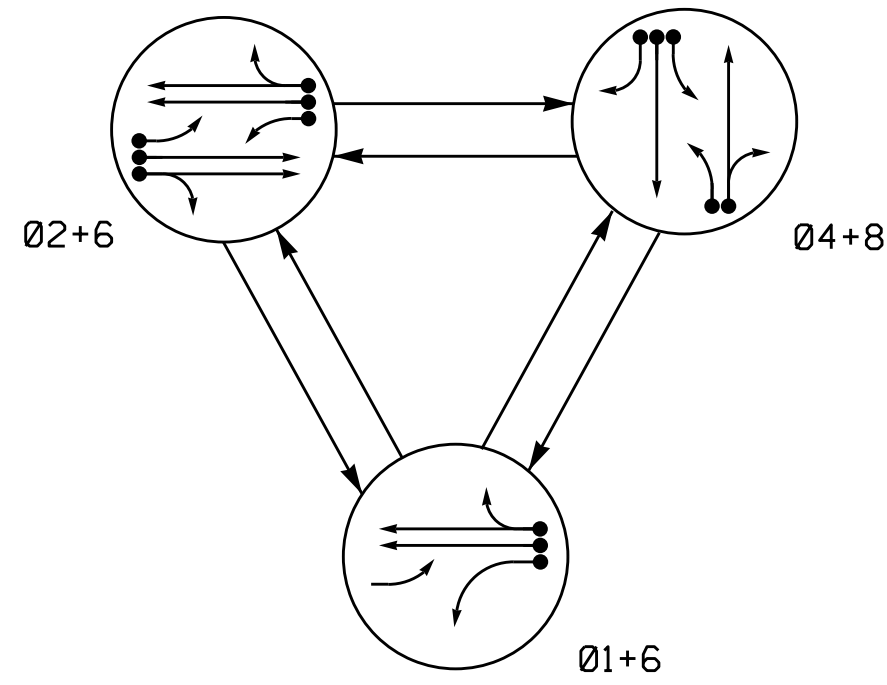


PHASING DIAGRAM

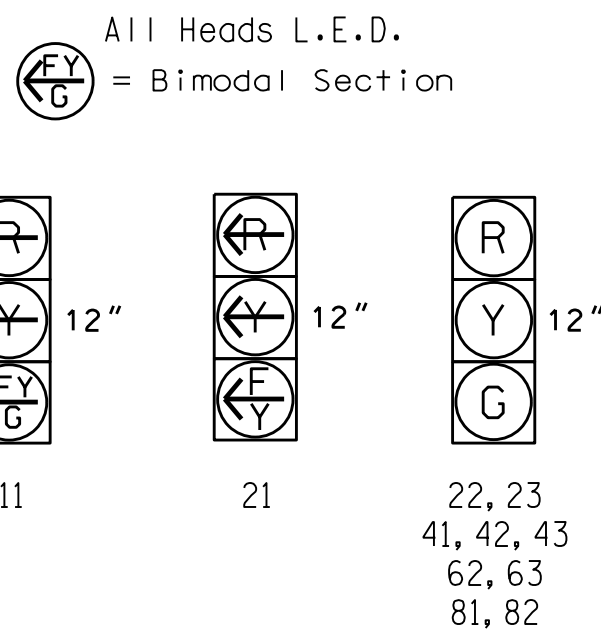


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE			
	01+6	02+6	04+8	F
11	←	←	←	←
21	←	←	←	←
22, 23	R	G	R	Y
41, 42, 43	R	R	G	R
62, 63	G	G	R	Y
81, 82	R	R	G	R

SIGNAL FACE I.D.

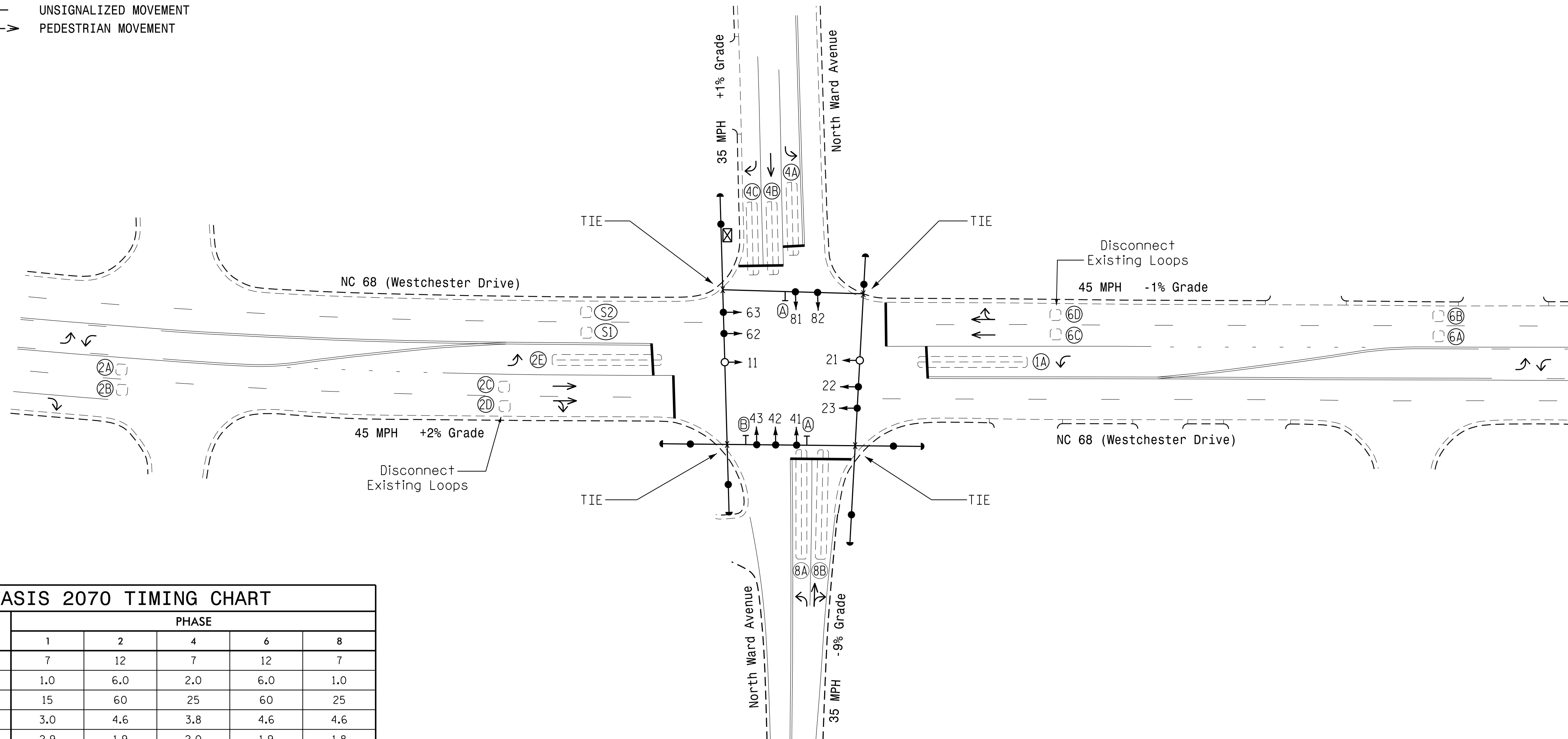


INDUCTIVE LOOPS				DETECTOR PROGRAMMING								
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X60	+5	2-4-2	-	1	Y	Y	-	-	15	-	Y
2A, 2B	6X6	300	EXIST	-	2	Y	Y	-	-	3	-	Y
2C, 2D	6X6	90	EXIST	-	DISCONNECT			-	-	-	-	-
2E	6X60	+5	2-4-2	-	2	Y	Y	Y	-	3	-	Y
4A	6X40	+5	2-4-2	-	4	Y	Y	-	-	3	-	Y
4B	6X40	+5	2-4-2	-	4	Y	Y	-	-	-	-	Y
4C	6X40	+5	2-4-2	-	4	Y	Y	-	-	15	-	Y
6A, 6B	6X6	300	EXIST	-	6	Y	Y	-	-	-	-	Y
6C, 6D	6X6	90	EXIST	-	DISCONNECT			-	-	-	-	-
8A, 8B	6X60	+5	2-4-2	-	8	Y	Y	-	-	5	-	Y
S1	6X6	+160	EXIST	-	-	-	-	-	-	-	-	Y
S2	6X6	+160	EXIST	-	-	-	-	-	-	-	-	Y

3 Phase Fully Actuated (High Point 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 may be lagged.
- Disconnect existing loops 2C, 2D, 6C, and 6D.
- 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.
- Existing lane control signs may be removed at direction of the Engineer.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



OASIS 2070 TIMING CHART

FEATURE	PHASE				
	1	2	4	6	8
Min Green 1 *	7	12	7	12	7
Extension 1 *	1.0	6.0	2.0	6.0	1.0
Max Green 1 *	15	60	25	60	25
Yellow Clearance	3.0	4.6	3.8	4.6	4.6
Red Clearance	2.9	1.9	2.0	1.9	1.8
Walk 1 *	-	-	-	-	-
Don't Walk 1	-	-	-	-	-
Seconds Per Actuation *	-	1.5	-	1.5	-
Max Variable Initial *	-	34	-	34	-
Time Before Reduction *	-	15	-	15	-
Time To Reduce *	-	30	-	30	-
Minimum Gap	-	3.0	-	3.0	-
Recall Mode **	-	SOFT RECALL	-	SOFT RECALL	-
Vehicle Call Memory	-	YELLOW	-	YELLOW	-
Dual Entry	-	-	ON	-	ON
Simultaneous Gap	ON	ON	ON	ON	ON

* 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 be lower than 4 seconds.
 ** May be changed to Min Recall by Time of Day at discretion of City Traffic Engineer.

LEGEND

- | PROPOSED | EXISTING |
|-------------------------------------|-------------------------------------|
| ○ → Traffic Signal Head | ● → Traffic Signal Head |
| ◐ → Modified Signal Head | N/A |
| ⊥ → Sign | N/A |
| ⊥ → Pedestrian Signal Head | ⊥ → Pedestrian Signal Head |
| ⊥ → With Push Button & Sign | ⊥ → 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 | N/A → Right of Way |
| → → Directional Arrow | → → Directional Arrow |
| Ⓐ → Left Arrow "ONLY" Sign (R3-5L) | Ⓐ → Left Arrow "ONLY" Sign (R3-5L) |
| Ⓑ → Right Arrow "ONLY" Sign (R3-5R) | Ⓑ → Right Arrow "ONLY" Sign (R3-5R) |

Signal Upgrade

750 N. Greenfield Pkwy, Garner, NC 27529

NC 68 (Westchester Drive) at North Ward Avenue

Division 7 Guilford County High Point

PLAN DATE: March 2014 PREPARED BY: Jeff Spence

PREPARED BY: R.N. Zinser REVIEWED BY:

SEAL

ROBERT J. ZIEMBA
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 LICENSE NO. 026486

REVISIONS	INIT.	DATE

3/13/2015

DATE

SIG. INVENTORY NO. 07-0184