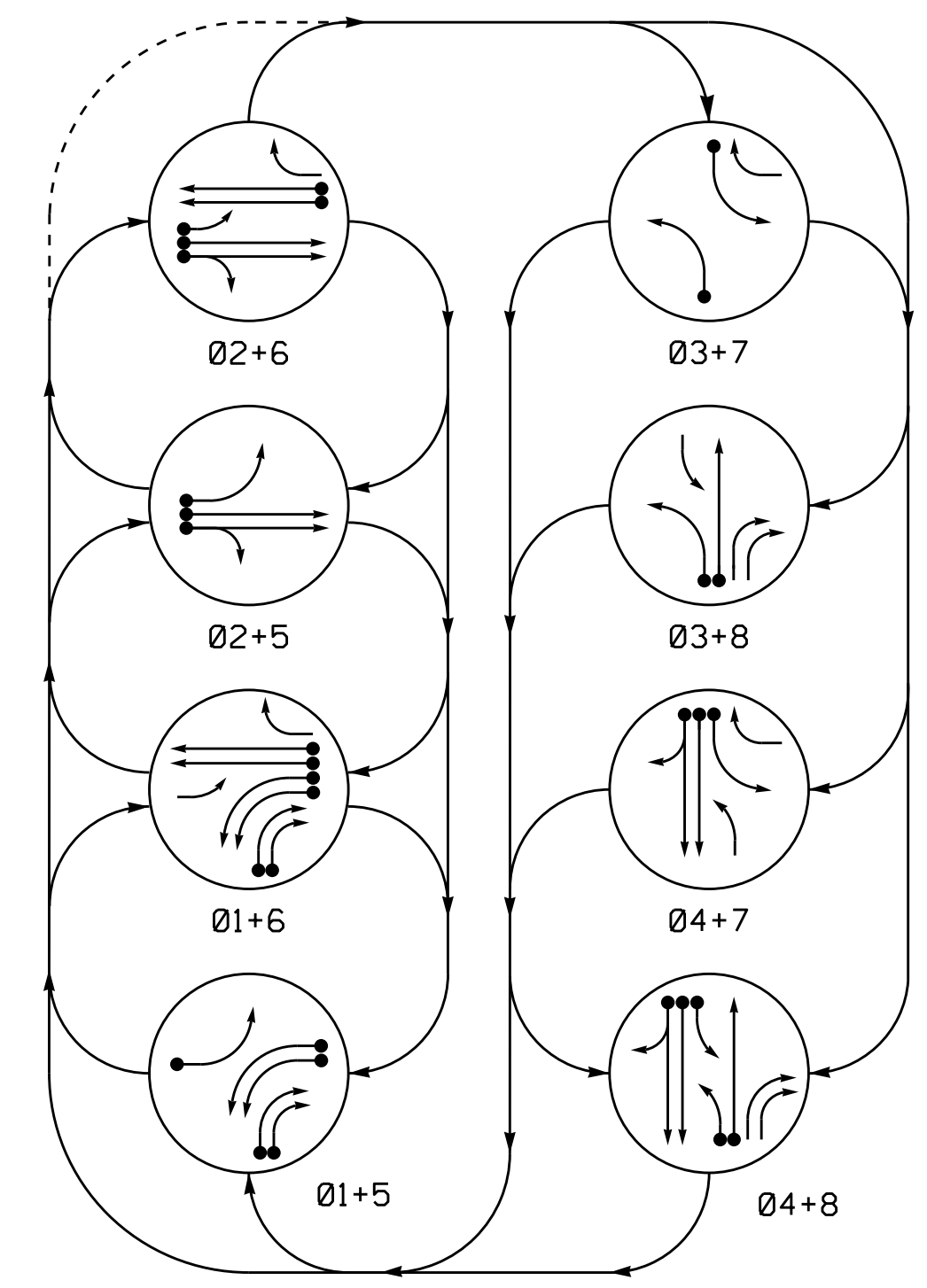


8 Phase Fully Actuated (High Point Signal System)

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

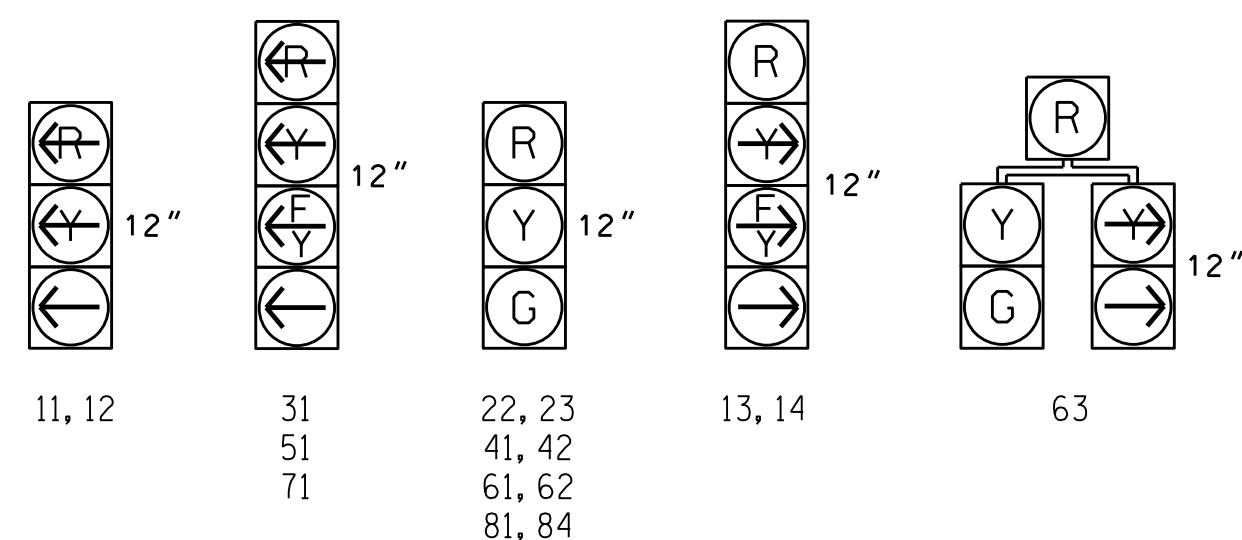
- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- ←---→ UNSIGNALIZED MOVEMENT
- ←- - -> PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	02+6	03+7	04+8	01+6	02+5	03+8	04+7
11, 12	---	---	---	---	---	---	---	---
13, 14	---	---	---	---	---	---	---	---
22, 23	R	R	G	G	R	R	R	Y
31	---	---	---	---	---	---	---	---
41, 42	R	R	R	R	R	R	G	G
51	---	---	---	---	---	---	---	---
61, 62	R	G	R	G	R	R	R	Y
63	R	G	R	G	R	R	R	Y
71	---	---	---	---	---	---	---	---
81, 84	R	R	R	R	G	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.

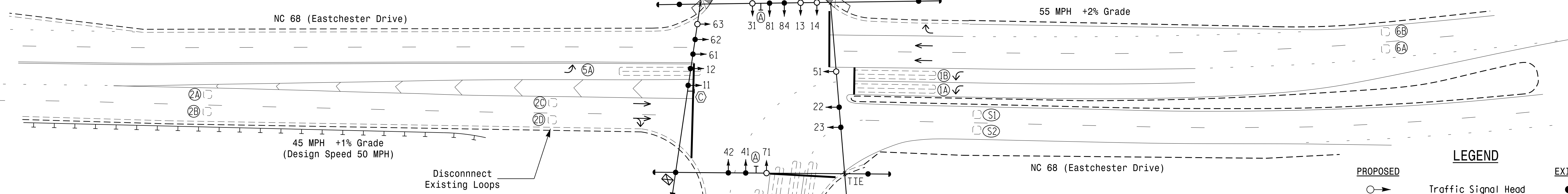


OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X60	0	2-4-2	-	1	Y	Y	-	-	-	-	Y
1B	6X60	0	2-4-2	-	1	Y	Y	-	-	-	-	Y
1C	6X60	+10	2-4-2	-	1	Y	Y	-	-	15	-	Y
1D	6X60	+10	2-4-2	-	1	Y	Y	-	-	15	-	Y
2A, 2B	6X6	355	EXIST	-	2	Y	Y	-	-	-	-	Y
2C, 2D	6X6	100	EXIST	-	DISCONNECT						-	-
3A	6X60	+5	2-4-2	-	3	Y	Y	-	-	15	-	Y
4B	6X60	+5	2-4-2	-	4	Y	Y	-	-	-	-	Y
4C	6X60	+5	2-4-2	-	4	Y	Y	-	-	10	-	Y
5A	6X60	+5	2-4-2	-	5	Y	Y	-	-	15	-	Y
6A, 6B	6X6	420	EXIST	-	6	Y	Y	-	-	-	-	Y
7A	6X60	+5	2-4-2	-	4	Y	Y	-	-	3	-	Y
8B	6X60	+5	2-4-2	-	8	Y	Y	-	-	-	-	Y
S1	6X6	+210	EXIST	-	-	-	-	-	-	-	-	Y
S2	6X6	+210	EXIST	-	-	-	-	-	-	-	-	Y

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. Disconnect existing loops 2C and 2D.
6. Rename existing loops 4A and 8A to 7A and 3A, respectively.
7. Set all detector units to presence mode.
8. 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.
9. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
10. Remove existing "LEFT TURN YIELD ON GREEN" Sign (R10-12).
11. Existing Left Arrow "ONLY" Signs (R3-5L) may be removed at the direction of the Engineer.
12. Pavement markings are existing.
13. 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	3	4	5	6	7	8
Min Green 1*	7	14	7	7	7	14	7	7
Extension 1*	1.0	6.0	1.0	1.0	1.0	6.0	1.0	1.0
Max Green 1*	15	60	15	25	15	60	15	25
Yellow Clearance	3.0	5.0	3.0	3.8	3.0	5.0	3.0	3.8
Red Clearance	3.3	1.4	3.4	2.9	2.6	1.4	3.5	2.9
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1*	-	-	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-	-	-
Seconds Per Actuation*	-	1.5	-	-	-	1.5	-	-
Max Variable Initial*	-	40	-	-	-	46	-	-
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	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 not 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 | ●→ N/A |
| ●→ 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 | ⊠ Controller & Cabinet |
| □ Junction Box | □ Junction Box |
| - - - 2-in Underground Conduit | - - - 2-in Underground Conduit |
| N/A Right of Way | - - - Right of Way |
| → Directional Arrow | → Directional Arrow |
| N/A Guardrail | - - - Guardrail |
| A Left Arrow "ONLY" Sign (R3-5L) | A Left Arrow "ONLY" Sign (R3-5L) |
| ⊙ "U-TURN YIELD TO RIGHT TURN" Sign (R10-16) | ⊙ "U-TURN YIELD TO RIGHT TURN" Sign (R10-16) |

Signal Upgrade

NC 68 (Eastchester Dr.)
at
SR 1536 (Penny Rd.)

Division 7 Guilford County High Point

PLAN DATE: September 2014 PREPARED BY: R.N. Zinser

PREPARED BY: T.L. Averette REVIEWED BY:

SEAL

026486

4/22/2015

DATE

SCALE 0 40

1"=40'

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