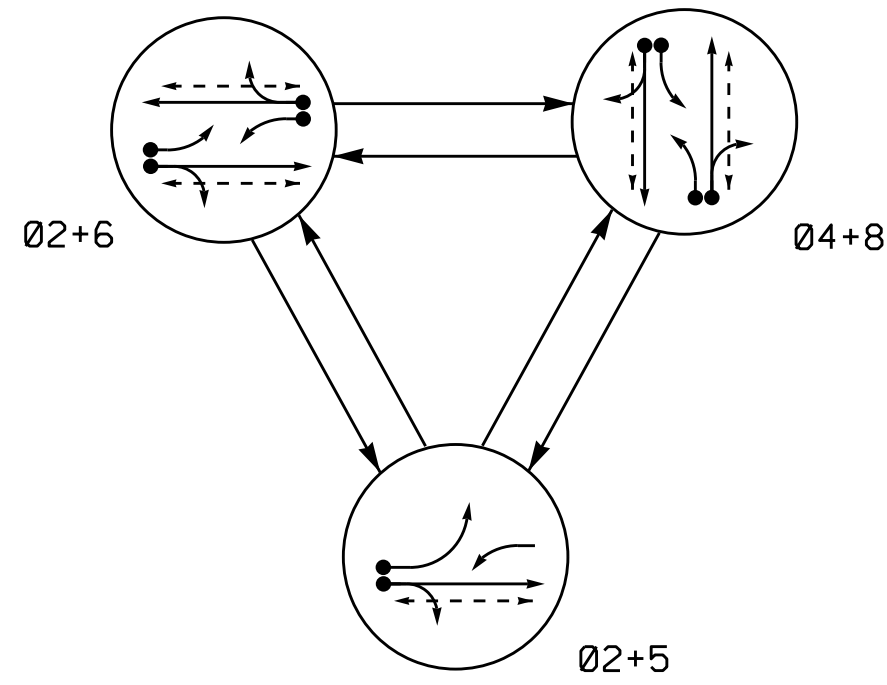


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

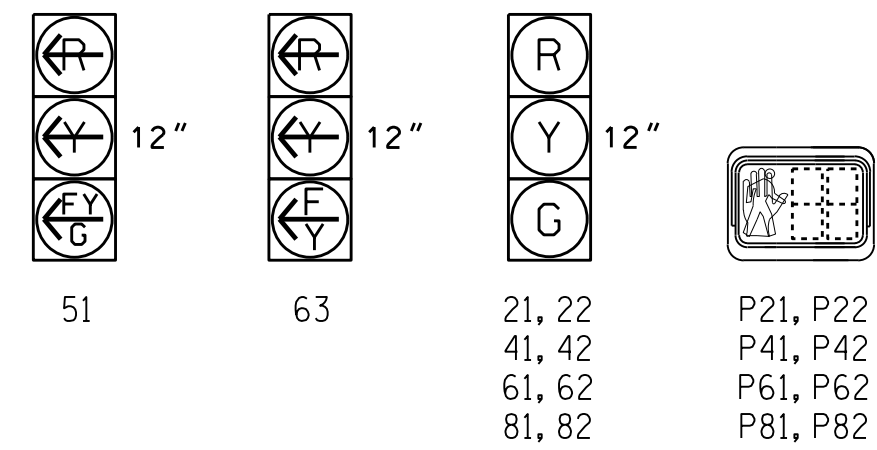
- ←● DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ←--- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE				
	0 2 + 5	0 2 + 6	0 4 + 8	F L	F L
21, 22	G	G	R	Y	
41, 42	R	R	G	R	
51	---	F	---	---	---
61, 62	R	G	R	Y	
63	F	F	---	---	---
81, 82	R	R	G	R	
P21, P22	W	W	DW	DRK	
P41, P42	DW	DW	W	DRK	
P61, P62	DW	W	DW	DRK	
P81, P82	DW	DW	W	DRK	

SIGNAL FACE I.D.

All Heads L.E.D.  
= Bimodal Section



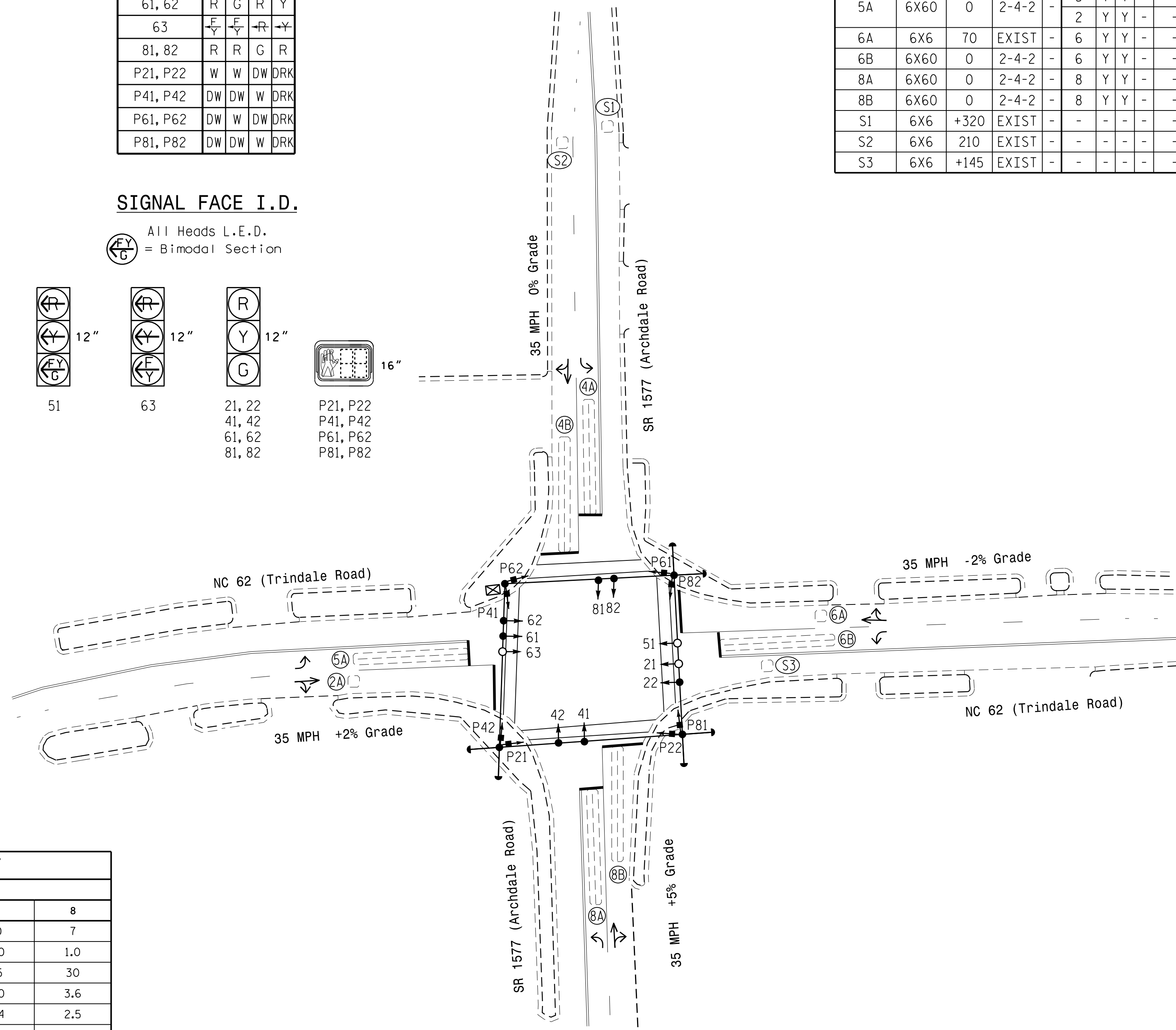
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD	
2A	6X6	70	EXIST	-	2	Y	Y	-	-	-	-	Y
4A	6X6	0	2-4-2	-	4	Y	Y	-	-	3	-	Y
4B	6X6	0	2-4-2	-	4	Y	Y	-	-	10	-	Y
5A	6X6	0	2-4-2	-	5	Y	Y	-	-	15	-	Y
6A	6X6	70	EXIST	-	6	Y	Y	-	-	-	-	Y
6B	6X6	0	2-4-2	-	6	Y	Y	-	-	-	-	Y
8A	6X6	0	2-4-2	-	8	Y	Y	-	-	3	-	Y
8B	6X6	0	2-4-2	-	8	Y	Y	-	-	10	-	Y
S1	6X6	+320	EXIST	-	-	-	-	-	-	-	-	Y
S2	6X6	210	EXIST	-	-	-	-	-	-	-	-	Y
S3	6X6	+145	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 5 may be lagged.
- Reposition existing signal heads numbered 22, 61 and 62.
- 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.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 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				
	2	4	5	6	8
Min Green 1 *	10	7	7	10	7
Extension 1 *	3.0	1.0	1.0	3.0	1.0
Max Green 1 *	45	30	15	45	30
Yellow Clearance	4.0	3.8	3.0	4.0	3.6
Red Clearance	2.4	2.3	3.1	2.4	2.5
Red Revert	2.0	2.0	2.0	2.0	2.0
Walk 1 *	7	7	-	7	7
Don't Walk 1	16	16	-	14	16
Seconds Per Actuation *	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
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 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                          | ● → 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                           | ⊠ 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                              |

Signal Upgrade

750 N. Greenfield Pkwy, Garner, NC 27529

NC 62 (Trindale Road) at SR 1577 (Archdale Road)

Division 8 Randolph County Archdale

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

PREPARED BY: T. L. Averette REVIEWED BY:

SEAL

ROBERT J. ZIEMBA  
ENGINEER

SCALE 0 40  
1" = 40'

REVISIONS

NO.	DATE	DESCRIPTION

INIT. DATE

--	--

4/2/2015 DATE

SIG. INVENTORY NO. 08-0134

02-APR-2015 14:50  
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