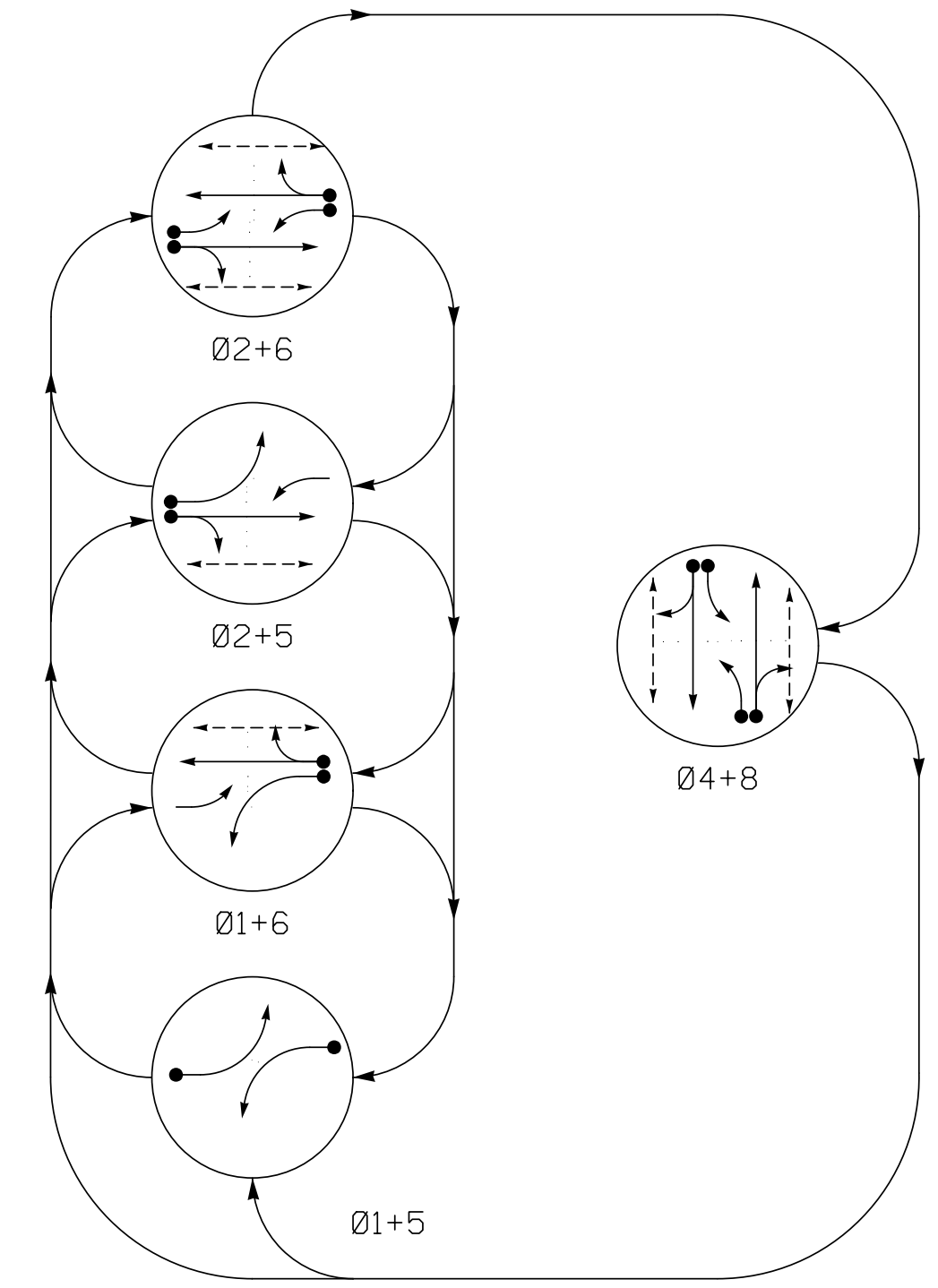


**DEFAULT PHASING DIAGRAM**

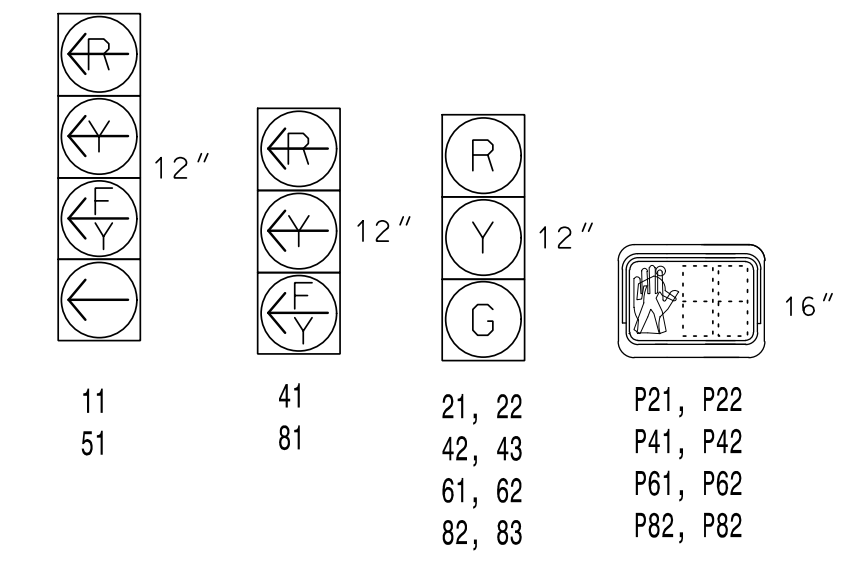


**PHASING DIAGRAM DETECTION LEGEND**

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

**SIGNAL FACE I.D.**

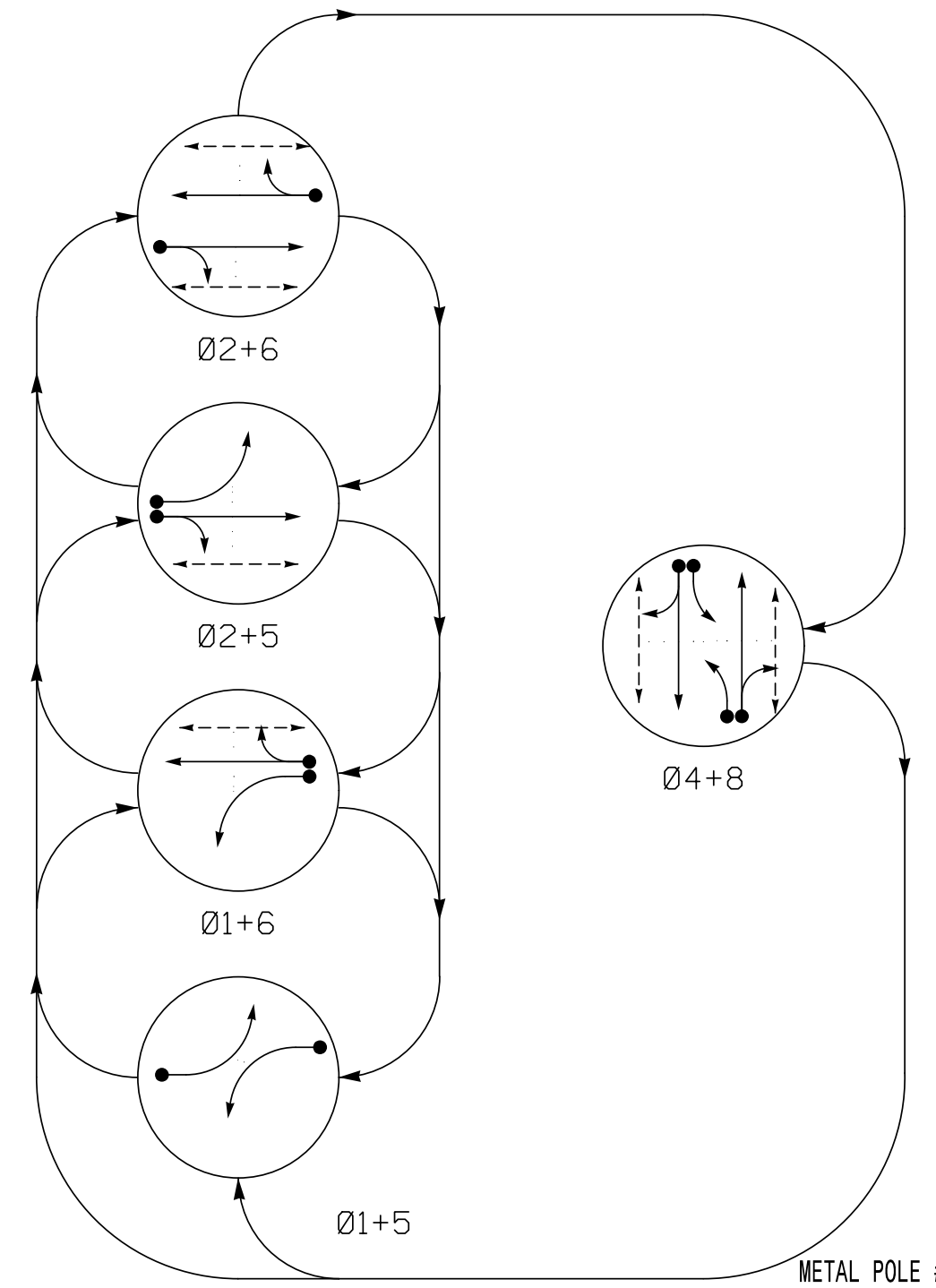
All Heads L.E.D.



**DEFAULT PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE					
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8	FLASH
11	←	←	←	←	←	Y
21, 22	R	R	G	G	R	Y
41	←	←	←	←	←	Y
42, 43	R	R	R	R	G	R
51	←	←	←	←	←	Y
61, 62	R	G	R	G	R	Y
81	←	←	←	←	←	Y
82, 83	R	R	R	R	G	R
P21, P22	DW	DW	W	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	W	DW	DRK
P81, P82	DW	DW	DW	DW	W	DRK

**ALTERNATE PHASING DIAGRAM**



**ALTERNATE PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE					
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8	FLASH
11	←	←	←	←	←	Y
21, 22	R	R	G	G	R	Y
41	←	←	←	←	←	Y
42, 43	R	R	R	R	G	R
51	←	←	←	←	←	Y
61, 62	R	G	R	G	R	Y
81	←	←	←	←	←	Y
82, 83	R	R	R	R	G	R
P21, P22	DW	DW	W	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	W	DW	DRK
P81, P82	DW	DW	DW	DW	W	DRK

**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

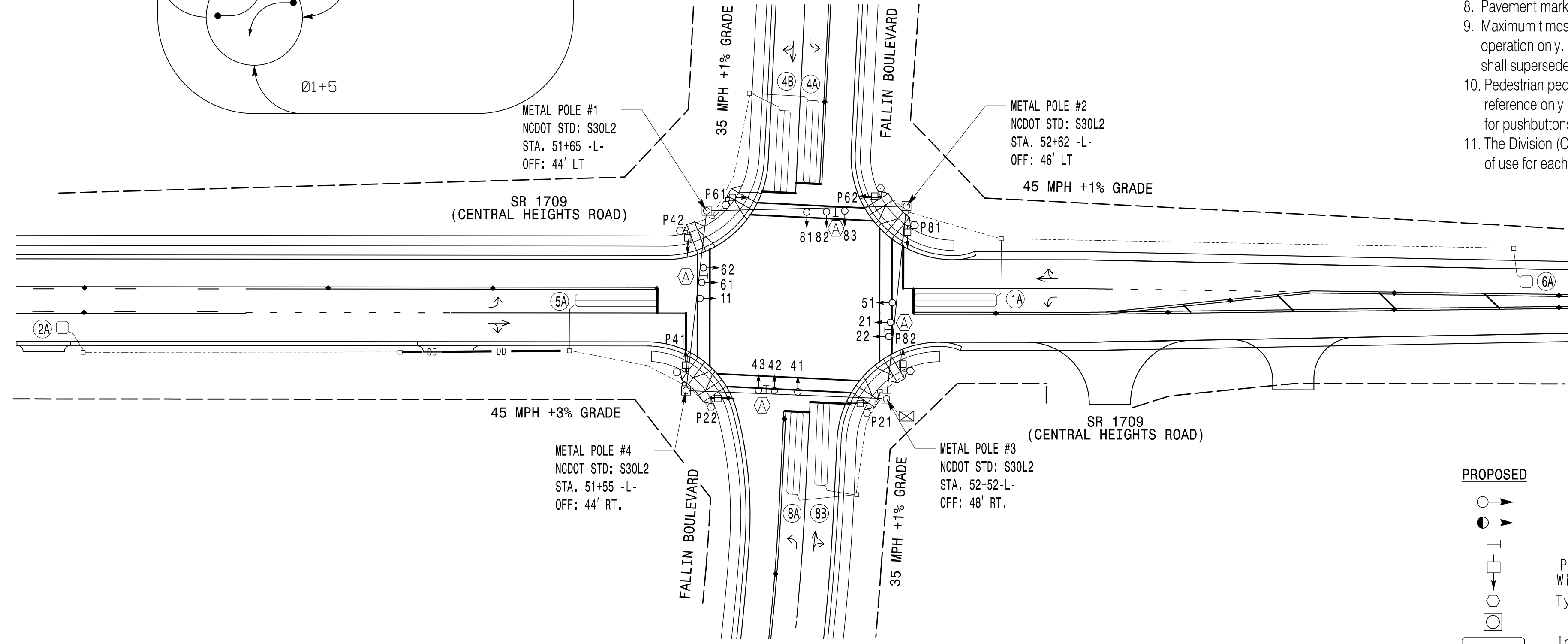
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY			STRETCH TIME
1A	6X40	0	2-4-2	Y	1	Y	Y	-	15*	-	Y
2A	6X6	300	6	Y	2	Y	Y	-	-	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	3	-	Y
4B	6X40	0	2-4-2	Y	4	Y	Y	-	10	-	Y
5A	6X40	0	2-4-2	Y	5	Y	Y	-	15*	-	Y
6A	6X6	300	6	Y	6	Y	Y	-	-	-	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	3	-	Y
8B	6X40	0	2-4-2	Y	8	Y	Y	-	10	-	Y

\* Reduce Delay to 3 Sec. during Alternate Phasing operation.  
 † Disable Phase calls for Loops during Alternate Phasing operation.

**5 PHASE FULLY ACTUATED (GOLDSBORO SIGNAL SYSTEM)**

**NOTES**

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
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. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. Pavement markings are existing.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
10. Pedestrian pedestals are conceptual and shown for reference only. See Roadway Standard Drawing 1705.04 for pushbuttons locations details.
11. The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.



**LEGEND**

PROPOSED	EXISTING
○ Traffic Signal Head	● N/A
◐ Modified Signal Head	◑ N/A
⊥ Sign	⊥ N/A
⊥ Pedestrian Signal Head	⊥ N/A
⊥ With Push Button & Sign	⊥ N/A
⊥ Type II Signal Pedestal	⊥ N/A
⊥ Metal Strain Pole	⊥ N/A
⊥ Inductive Loop Detector	⊥ N/A
⊥ Controller & Cabinet	⊥ N/A
⊥ Junction Box	⊥ N/A
⊥ 2-in Underground Conduit	⊥ N/A
— N/A — Right of Way	— N/A —
→ Directional Arrow	→ N/A
— N/A — Directional Drill	— N/A —
— N/A — Curb Ramp	— N/A —
⊙ Street Sign	⊙ N/A

**OASIS 2070 TIMING CHART**

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	12	7	7	12	7
Extension 1 *	2.0	6.0	2.0	2.0	6.0	2.0
Max Green 1 *	20	60	30	20	60	30
Yellow Clearance	3.0	4.4	3.8	3.0	4.4	3.8
Red Clearance	2.6	1.8	2.0	3.1	1.8	2.0
Walk 1 *	-	7	7	-	7	7
Don't Walk 1	-	15	12	-	13	15
Seconds Per Actuation *	-	2.5	-	-	2.5	-
Max Variable Initial *	-	34	-	-	34	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	45	-	-	45	-
Minimum Gap	-	3.0	-	-	3.0	-
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-
Dual Entry	-	-	ON	-	-	ON
Simultaneous Gap	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.

**NEW INSTALLATION**

Prepared For: **TRANSFORMATION MOBILITY AND SAFETY DIVISION**  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 STATE OF NORTH CAROLINA  
 Signal Design Section

750 N. Greenfield Pkwy, Garner, NC 27529

PLANS PREPARED IN THE OFFICE OF:  
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 Raleigh, NC 27601  
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**SR 1709 (CENTRAL HEIGHTS ROAD) AT FALLIN BOULEVARD**

DIVISION 4 WAYNE COUNTY GOLDSBORO

PLAN DATE: SEPTEMBER 2018 REVIEWED BY: SL PHILLIPS

PREPARED BY: SP PENNINGTON REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

**SL PHILLIPS**  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 NO. 032607  
 STATE OF NORTH CAROLINA  
 6/30/2020

SIG. INVENTORY NO. 04-1440

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