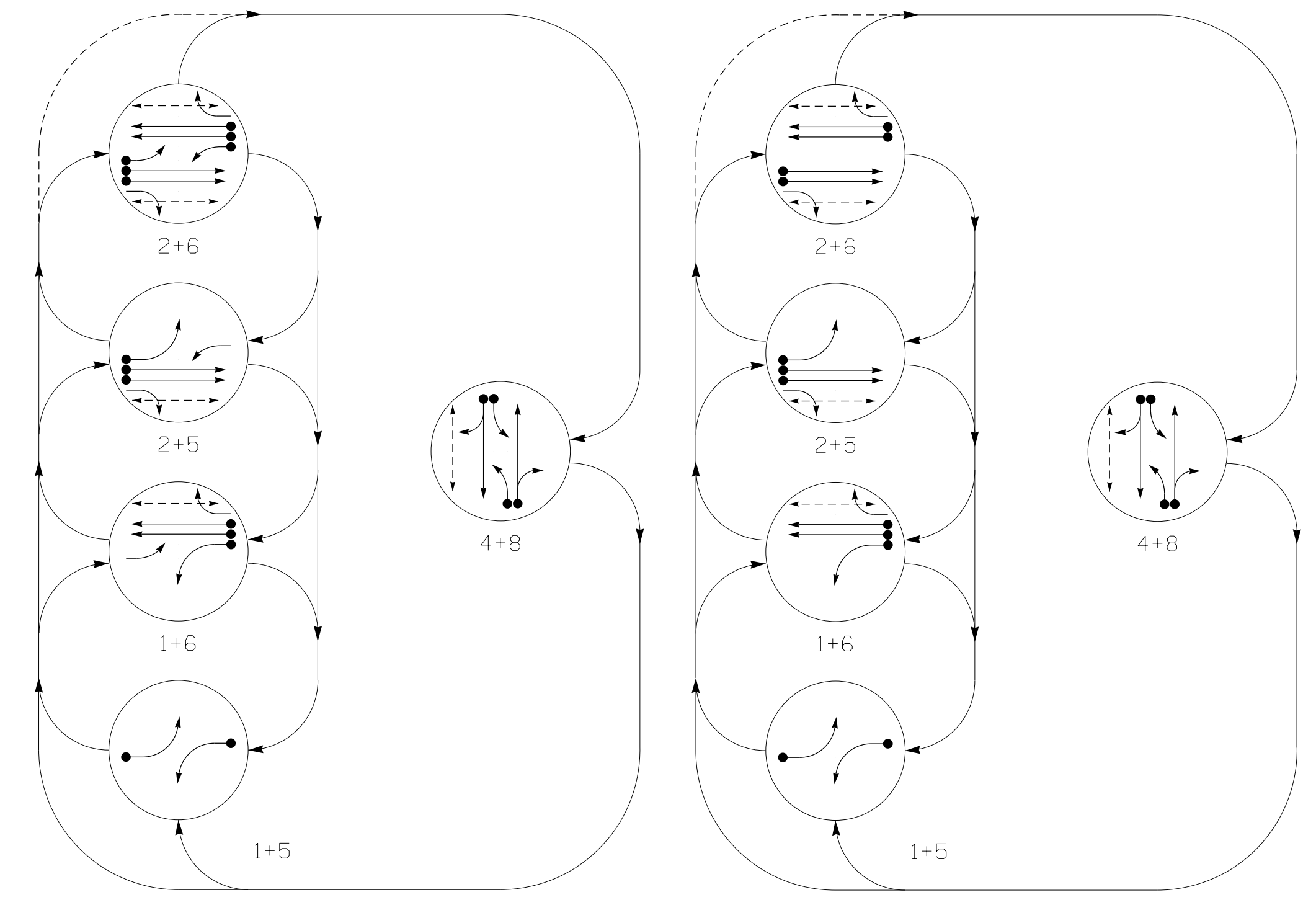


DEFAULT PHASING DIAGRAM

ALTERNATE PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE				
	1+5	1+6	2+5	2+6	4+8
11	←	←	←	←	←
21, 22	R	R	G	G	R
23	R	R	←	←	R
41	←	←	←	←	←
42, 43, 44	R	R	R	G	R
51	←	←	←	←	←
61, 62	R	G	R	G	R
63	R	←	←	←	R
81	←	←	←	←	←
82, 83, 84	R	R	R	G	R
P21, P22	DW	DW	W	W	DRK
P41, P42	DW	DW	DW	DW	DRK
P61, P62	DW	W	DW	W	DRK

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE				
	1+5	1+6	2+5	2+6	4+8
11	←	←	←	←	←
21, 22	R	R	G	G	R
23	R	R	←	←	R
41	←	←	←	←	←
42, 43, 44	R	R	R	G	R
51	←	←	←	←	←
61, 62	R	G	R	G	R
63	R	←	←	←	R
81	←	←	←	←	←
82, 83, 84	R	R	R	G	R
P21, P22	DW	DW	W	W	DRK
P41, P42	DW	DW	DW	DW	DRK
P61, P62	DW	W	DW	W	DRK

ASC/3 DETECTOR INSTALLATION CHART

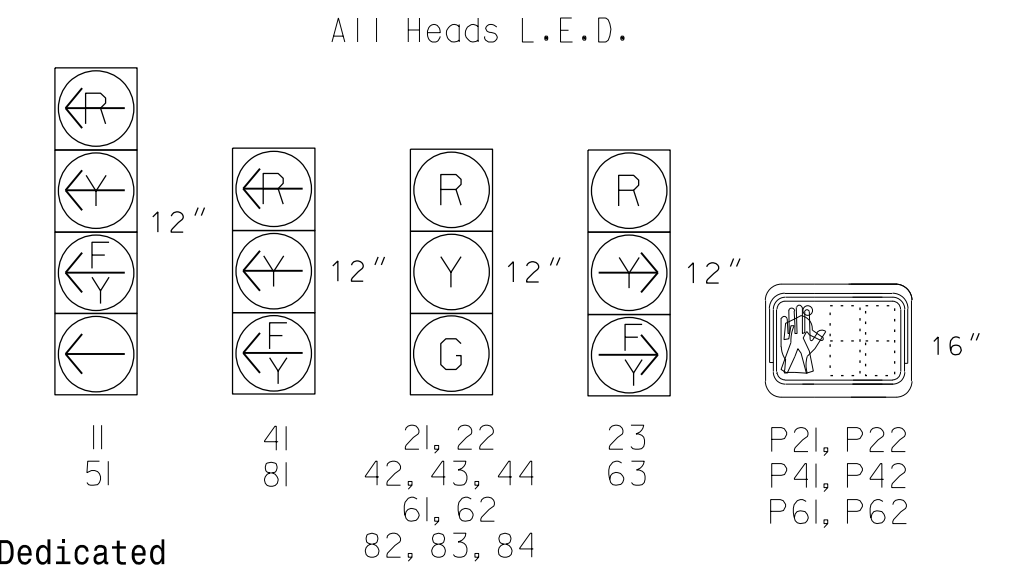
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	X	1	Yes	-	15.0*	-	N	-	X
2A	6X6	300	4	X	2	Yes	-	-	X	N	-	X
2B	6X6	300	4	X	2	Yes	-	-	X	N	-	X
4A	6X40	0	2-4-2	X	4	Yes	-	3.0	-	N	-	X
4B	6X40	0	2-4-2	X	4	Yes	-	10.0	-	N	-	X
5A	6X40	0	2-4-2	X	5	Yes	-	15.0*	-	N	-	X
6A	6X6	300	4	X	6	Yes	-	-	X	N	-	X
6B	6X6	300	4	X	6	Yes	-	-	X	N	-	X
8A	6X40	0	2-4-2	X	8	Yes	-	3.0	-	N	-	X
8B	6X40	0	2-4-2	X	8	Yes	-	-	-	N	-	X

5 Phase Fully Actuated (High Point Signal System)

NOTES

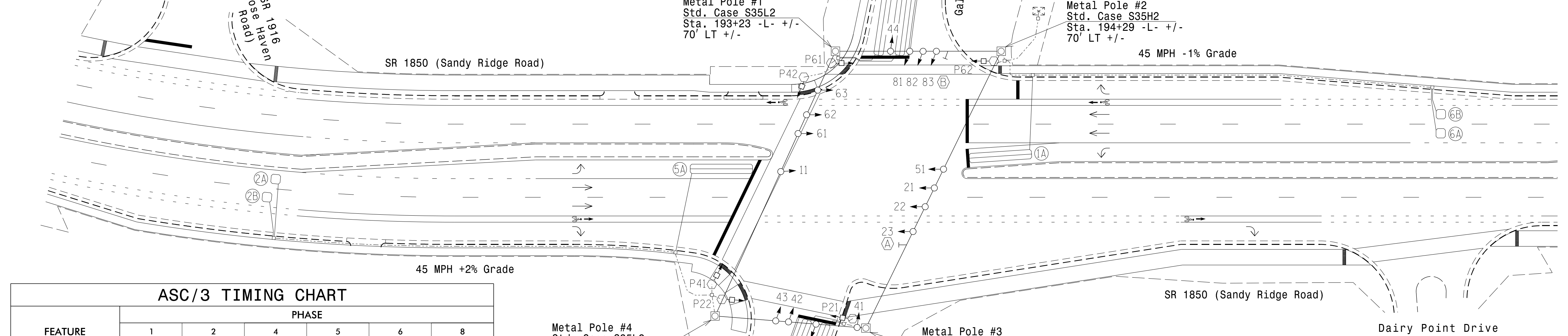
- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Set all detector units to presence mode.
- Phase 1 and/or phase 5 may be lagged.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
- Metal poles, Type I pushbutton posts and Type II pedestals shall be BLACK in color.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

SIGNAL FACE I.D.



PHASING DIAGRAM DETECTION LEGEND

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



ASC/3 TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green *	7	12	7	7	12	7
Delayed Green	-	7	7	-	7	-
Walk *	-	14	14	-	14	-
Ped Clear	-	15	32	-	21	-
Veh. Extension *	2.0	6.0	2.0	2.0	6.0	2.0
Max 1 *	15	90	30	15	90	30
Yellow	3.0	4.6	4.5	3.0	4.6	4.5
Red Clear	3.9	3.0	3.1	3.6	3.0	3.1
Actuations B4 Add *	-	-	-	-	-	-
Seconds /Actuation *	-	1.5	-	-	1.5	-
Max Initial *	-	34	-	-	34	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	30	-	-	30	-
Minimum Gap	-	3.0	-	-	3.0	-
Locking Detector	-	X	-	-	X	-
Recall Position **	-	SOFT RECALL	-	-	SOFT RECALL	-
Dual Entry	-	-	X	-	-	X
Simultaneous Gap	X	X	X	X	X	X

LEGEND

- | PROPOSED | EXISTING |
|--|----------|
| ○ → Traffic Signal Head | ● → N/A |
| ○ → Modified Signal Head | ○ → N/A |
| ○ → Sign | ○ → N/A |
| ○ → Pedestrian Signal Head With Push Button & Sign | ○ → N/A |
| ○ → Signal Pole with Guy | ○ → N/A |
| ○ → Signal Pole with Sidewalk Guy | ○ → N/A |
| ○ → Inductive Loop Detector | ○ → N/A |
| ○ → Controller & Cabinet | ○ → N/A |
| ○ → Junction Box | ○ → N/A |
| ○ → 2-in Underground Conduit | ○ → N/A |
| ○ → Right of Way | ○ → N/A |
| ○ → Directional Arrow | ○ → N/A |
| ○ → Metal Strain Pole | ○ → N/A |
| ○ → Type II Signal Pedestal | ○ → N/A |
| ○ → Curb Ramp | ○ → N/A |
| ○ → Directional Drill | ○ → N/A |
| ○ → Right Arrow "ONLY" Sign (R3-5R) | ○ → N/A |
| ○ → "NO TURN ON RED" Sign (R10-11a) | ○ → N/A |

Signal Upgrade - Final Design

Prepared for the Offices of:

SR 1850 (Sandy Ridge Road) at SR 1556 (Gallimore Dairy Road)

Division 7 Guilford County High Point

PLAN DATE: January 2025 REVIEWED BY: AM Encarnacion

PREPARED BY: JT Stiff REVIEWED BY: PL Alexander

REVISIONS

INIT. DATE

SCALE 0 40 1"=40'

AtkinsRéalis

1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

SEAL

James Stiff

3/14/2025

SIG. INVENTORY NO. 07-1115

13-MAR-2025 11:07 P:\S\00036433\work\ris-com\ATKMANCO\Documents\Roads and Bridges\Projects\10059632_JSR-S19 and ITS\Task 05-11_Signals\071115-sig_dsn_2023mdd.dgn ST14665 - AT 10591089

* 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.