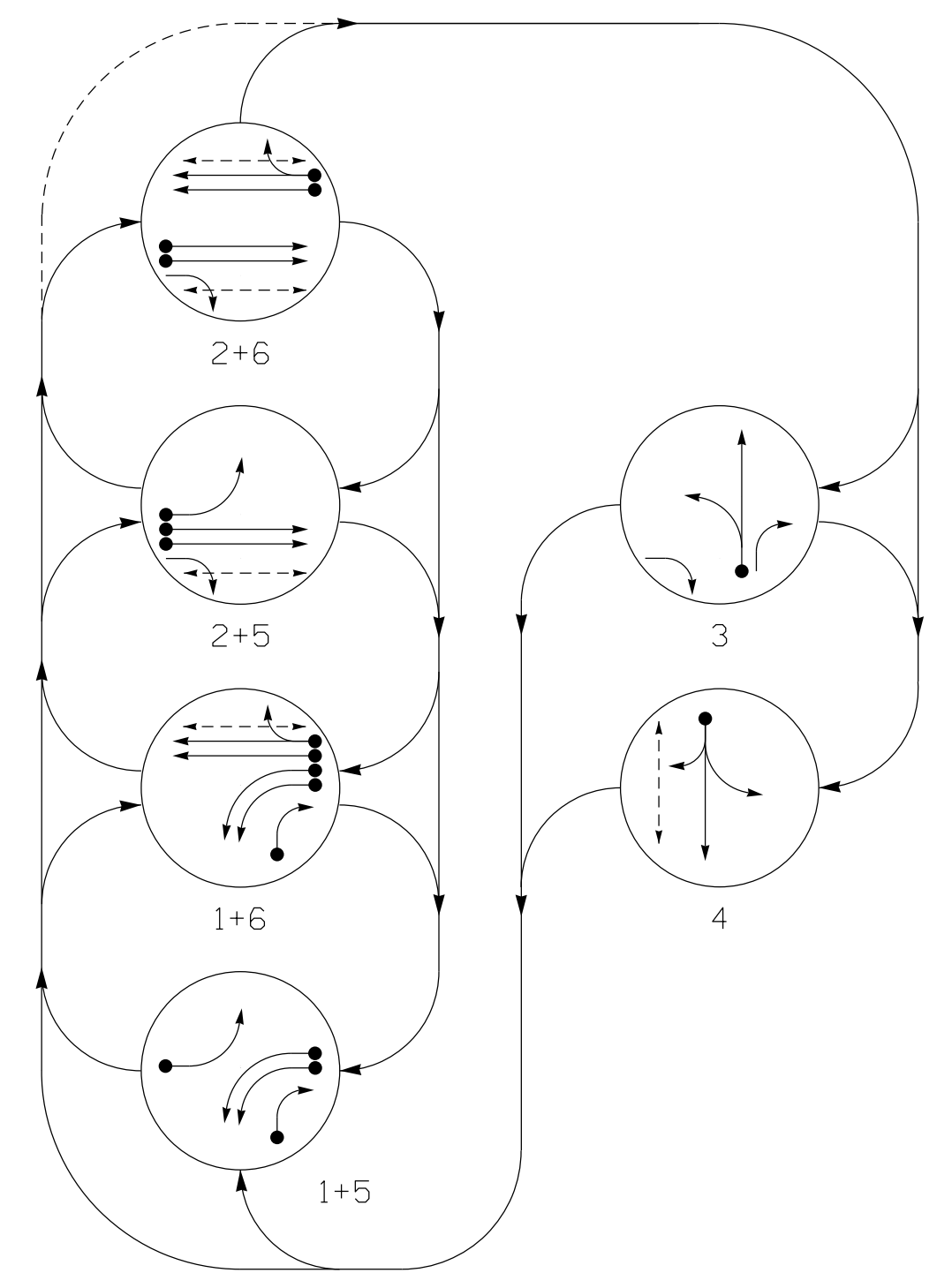


**PHASING DIAGRAM**



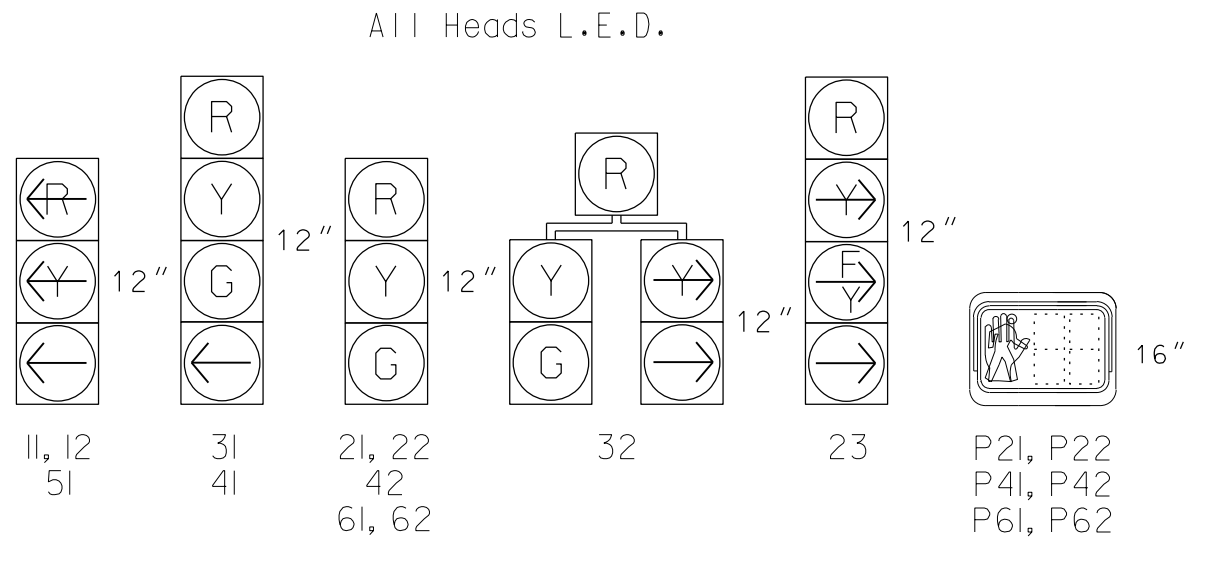
**PHASING DIAGRAM DETECTION LEGEND**

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

**TABLE OF OPERATION**

SIGNAL FACE	PHASE					
	1+5	1+6	2+5	2+6	3	4
1I, 12	←	←	←	←	←	←
2I, 22	R	R	G	G	R	R
23	R	R	F	F	R	R
3I	R	R	R	R	G	R
32	R	R	R	R	G	R
4I	R	R	R	R	R	G
42	R	R	R	R	R	G
5I	←	←	←	←	←	←
6I, 62	R	G	R	G	R	R
P2I, P22	DW	DW	W	W	DW	DRK
P4I, P42	DW	DW	DW	DW	DW	DRK
P6I, P62	DW	W	DW	W	DW	DRK

**SIGNAL FACE I.D.**



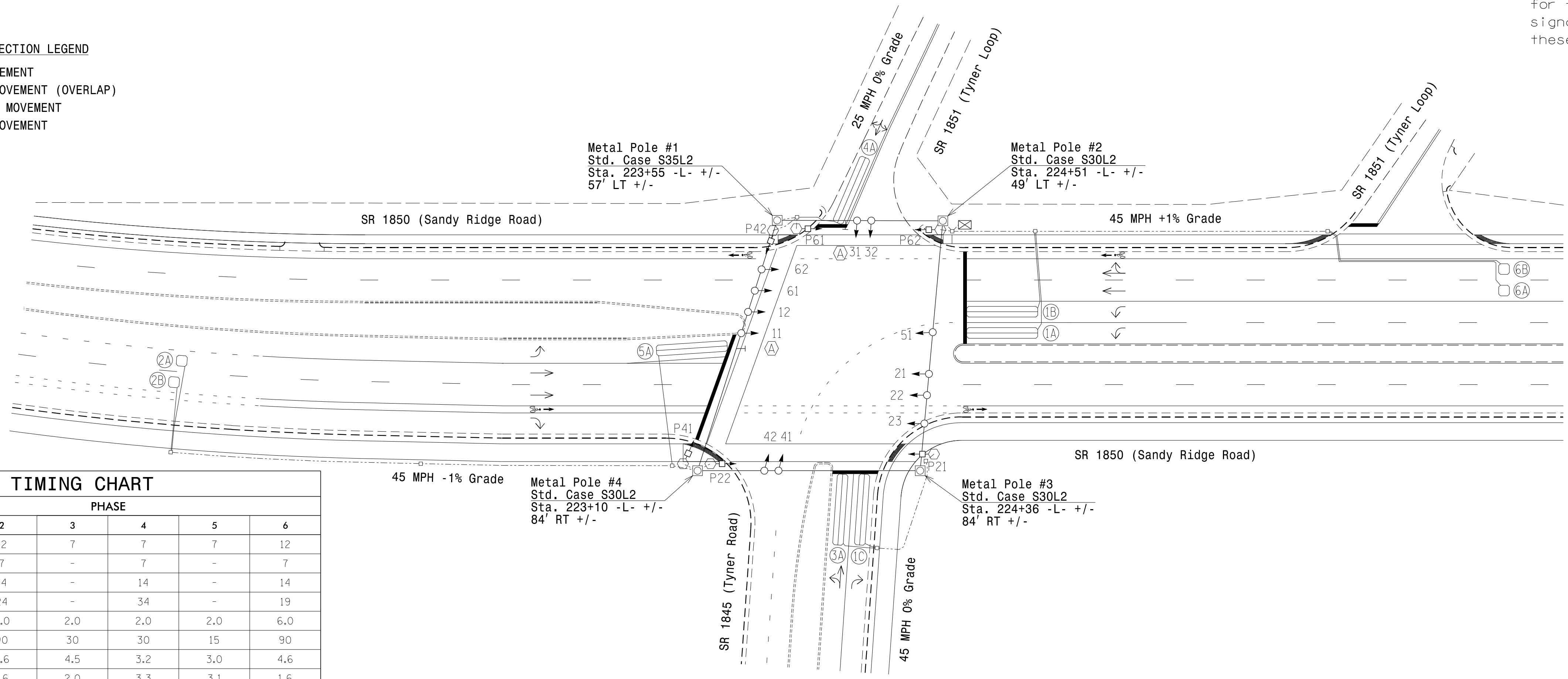
**ASC/3 DETECTOR INSTALLATION CHART**

LOOP	DETECTOR				PROGRAMMING							
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	X	1	Yes	-	-	-	N	-	X
1B	6X40	0	2-4-2	X	1	Yes	-	-	-	N	-	X
1C	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
3A	6X40	0	2-4-2	X	3	Yes	-	-	-	N	-	X
4A	6X40	0	2-4-2	X	4	Yes	-	5.0	-	N	-	X
5A	6X40	0	2-4-2	X	5	Yes	-	-	-	N	-	X
6A	6X6	300	4	X	6	Yes	-	-	X	N	-	X
6B	6X6	300	4	X	6	Yes	-	-	X	N	-	X

**6 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.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- 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.
- 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.



**ASC/3 TIMING CHART**

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green *	7	12	7	7	7	12
Delayed Green	-	7	-	7	-	7
Walk *	-	14	-	14	-	14
Ped Clear	-	24	-	34	-	19
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0
Max 1 *	15	90	30	30	15	90
Yellow	3.0	4.6	4.5	3.2	3.0	4.6
Red Clear	3.7	1.6	2.0	3.3	3.1	1.6
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	-	-	-	-	-	-
Simultaneous Gap	X	X	X	X	X	X

\* 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   | ◑ → 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   |
| N/A → Right of Way                                 | N/A → N/A |
| → → Directional Arrow                              | → → N/A   |
| ⊙ → Metal Strain Pole                              | ⊙ → N/A   |
| ⊗ → Type I Pushbutton Post                         | ⊗ → N/A   |
| ○ → Type II Signal Pedestal                        | ○ → N/A   |
| N/A → Curb Ramp                                    | N/A → N/A |
| ⊙ → "U-TURN YIELD TO RIGHT TURN" Sign (R10-16)     | ⊙ → N/A   |

**New Installation**

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

SR 1850 (Sandy Ridge Road)  
 at  
 SR 1845 (Tyner Road) /  
 SR 1851 (Tyner Loop)

Division 7 Guilford County High Point

PLAN DATE: January 2025 REVIEWED BY: AM Encarnacion  
 PREPARED BY: JT Stiff REVIEWED BY: PL Alexander

SEAL

James T. Stiff  
 3/14/2025  
 DATE

13-MAR-2025 17:17  
 PW://SUD03363433\_worh.ris.com:ATKMANCO/Documents/Roads and Bridges/Projects/100059632\_JSSR S19 and ITS/Task 05-11\_Signals/071117\_s19\_dsn\_2023mmdd.dgn  
 S17F4669 - AT L05910289