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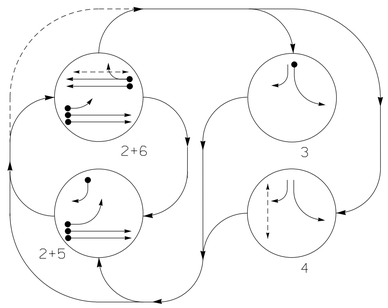
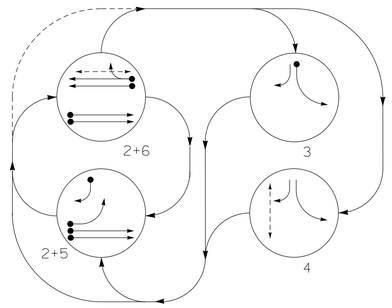
PROJECT REFERENCE NO.	SHEET NO.
U-4758	Sig. 14.0

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 2+5	PHASE 2+6	PHASE 3	PHASE 4	FLASH
21, 22	G	G	R	R	R
31, 33	~~R~~	~~R~~	←	←	~~R~~
32	→	R	→	F Y	R
51	←	~~F Y~~	~~R~~	~~R~~	~~R~~
61	R	↑	R	R	R
62	R	G	R	R	R
P41, P42	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	DW	DRK

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 2+5	PHASE 2+6	PHASE 3	PHASE 4	FLASH
21, 22	G	G	R	R	R
31, 33	~~R~~	~~R~~	←	←	~~R~~
32	→	R	→	F Y	R
51	←	~~R~~	~~R~~	~~R~~	~~R~~
61	R	↑	R	R	R
62	R	G	R	R	R
P41, P42	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	DW	DRK

ASC/3 DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
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	-	3.0	-	N	-	X
5A	6X40	0	2-4-2	X	5	Yes	-	15.0✳	-	N	-	X
					2#	Yes	-	3.0	-	G	-	X
5B	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

✳ Disable delay during alternate phasing operation
Disable phase call for loop(s) during alternate phasing operation

3 Phase
Fully Actuated
(High Point Signal System)

NOTES

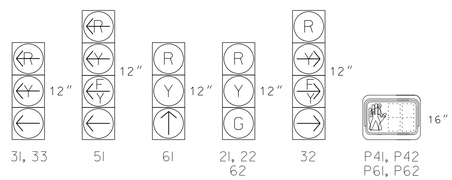
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Omit phase 4 during phase 3 on.
4. Phase 5 may be lagged.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
9. The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
10. Metal poles, Type I pushbutton posts and Type II pedestals shall be BLACK in color.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

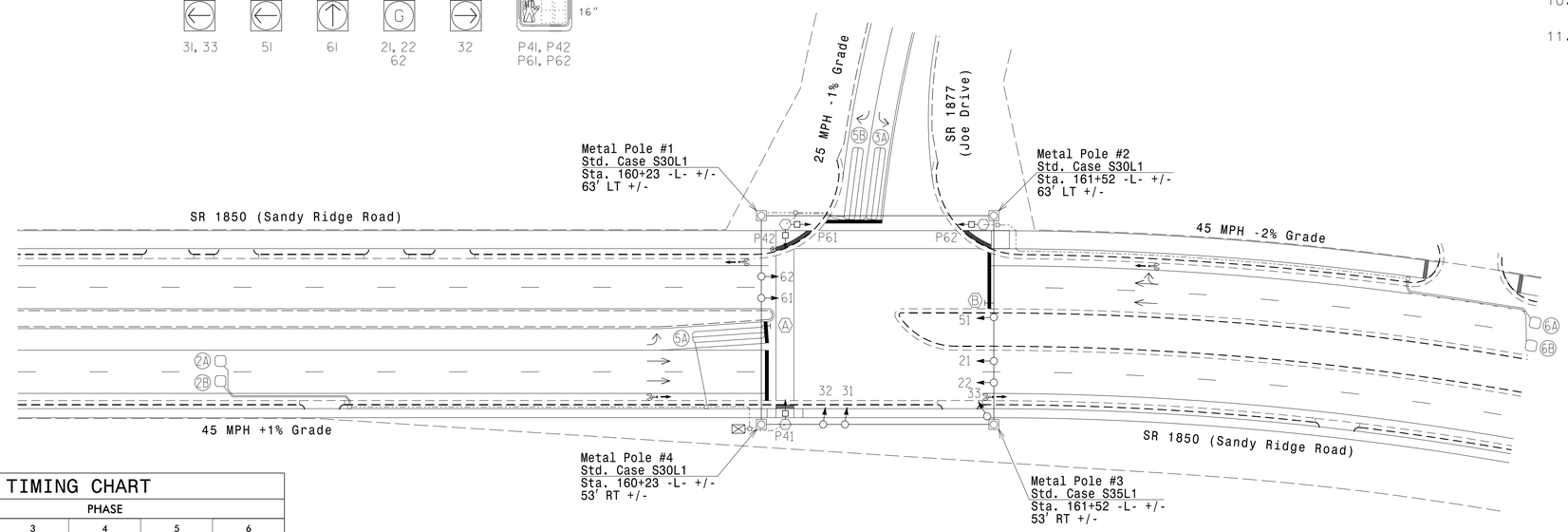
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.





ASC/3 TIMING CHART

FEATURE	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6
Min Green *	12	7	7	7	12
Delayed Green	-	-	7	-	7
Walk *	-	-	14	-	14
Ped Clear	-	-	22	-	23
Veh. Extension *	6.0	2.0	2.0	2.0	6.0
Max 1 *	90	30	30	15	90
Yellow	4.7	3.0	3.0	3.0	4.7
Red Clear	1.7	2.6	2.6	2.9	1.7
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

* 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	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Metal Strain Pole	
	Type I Pushbutton Post	
	Type II Signal Pedestal	
N/A	Curb Ramp	
Ⓐ	No U-Turn/No Left Turn Sign (R3-18)	Ⓐ
Ⓑ	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	Ⓑ

New Installation

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

Prepared for the Offices of: Transportation Mobility and Safety Division, Signal Design Section, Department of Transportation, State of North Carolina
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 40 1"=40'

SR 1850 (Sandy Ridge Road) at SR 1877 (Joe Drive)

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

SEAL 056276 NORTH CAROLINA PROFESSIONAL ENGINEER JAMES T. STIFF

Signed by: James Stiff D54BD037672A434...
SIGNATURE 3/14/2025 DATE

SIG. INVENTORY NO. 07-1113

13-MAR-2025 16:54
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