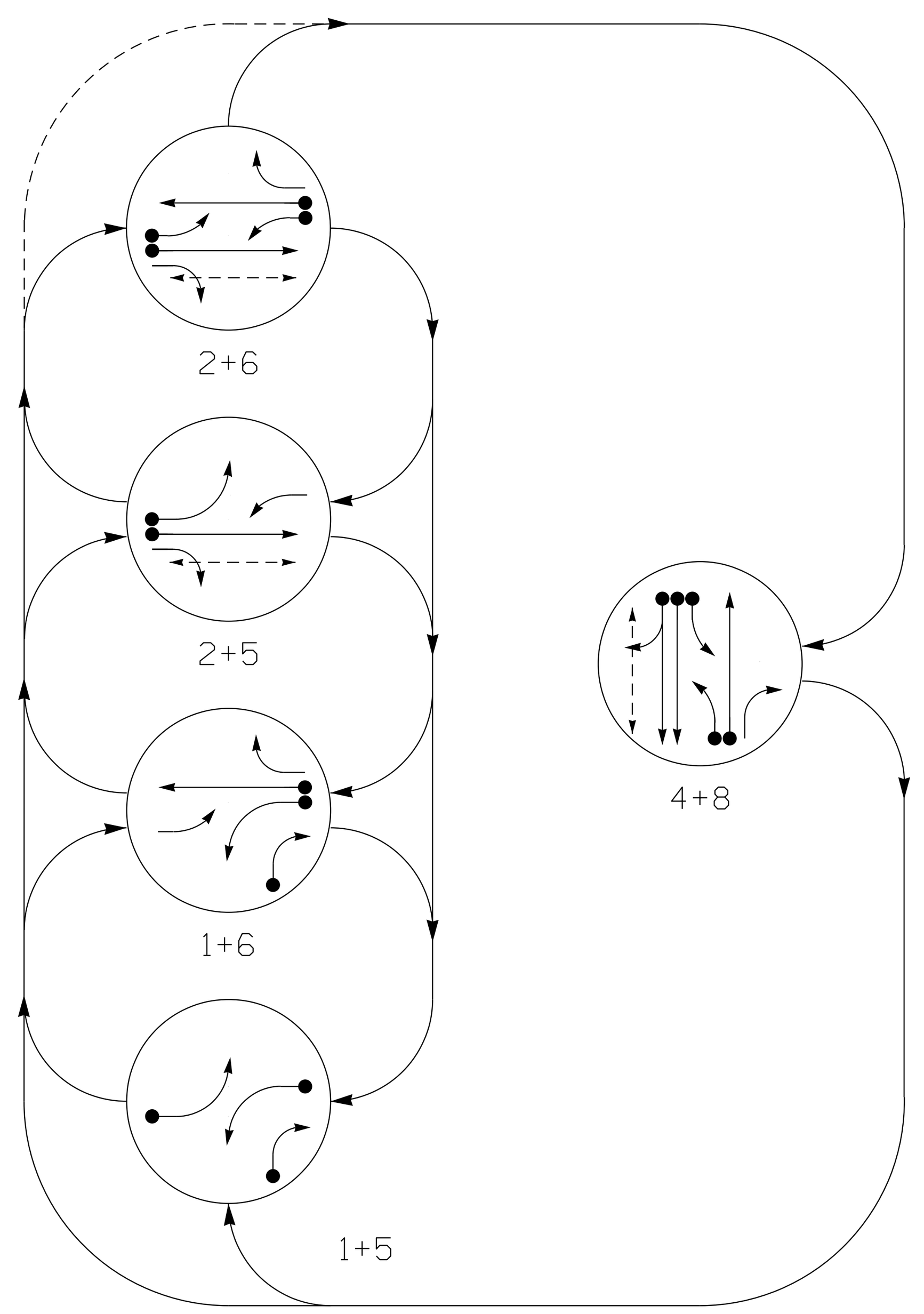
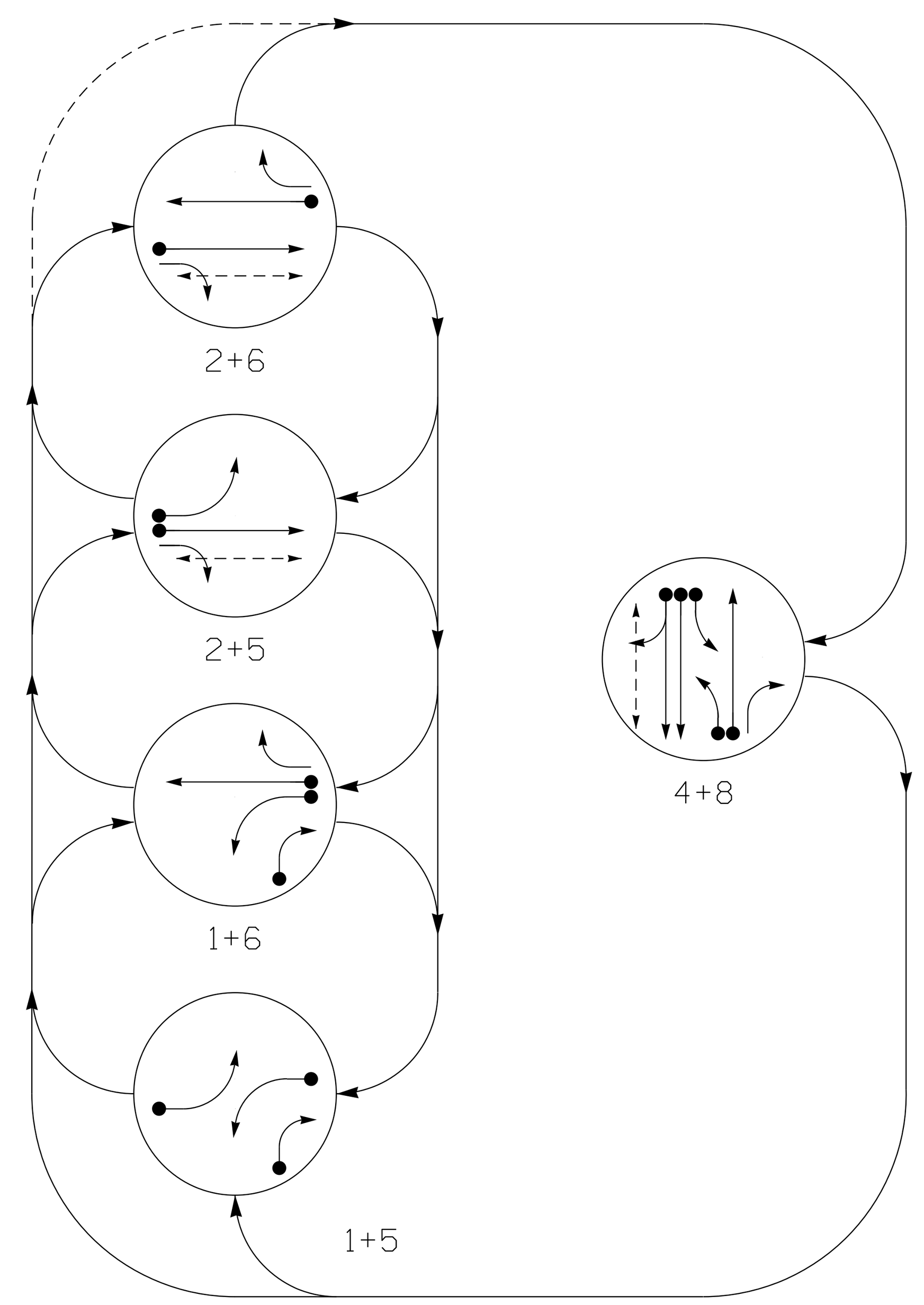
PROJECT REFERENCE NO.	SHEET NO.
U-4758	Sig. 2.0

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT PHASING TABLE OF OPERATION

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

ALTERNATE PHASING TABLE OF OPERATION

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

ASC/3 DETECTOR INSTALLATION CHART

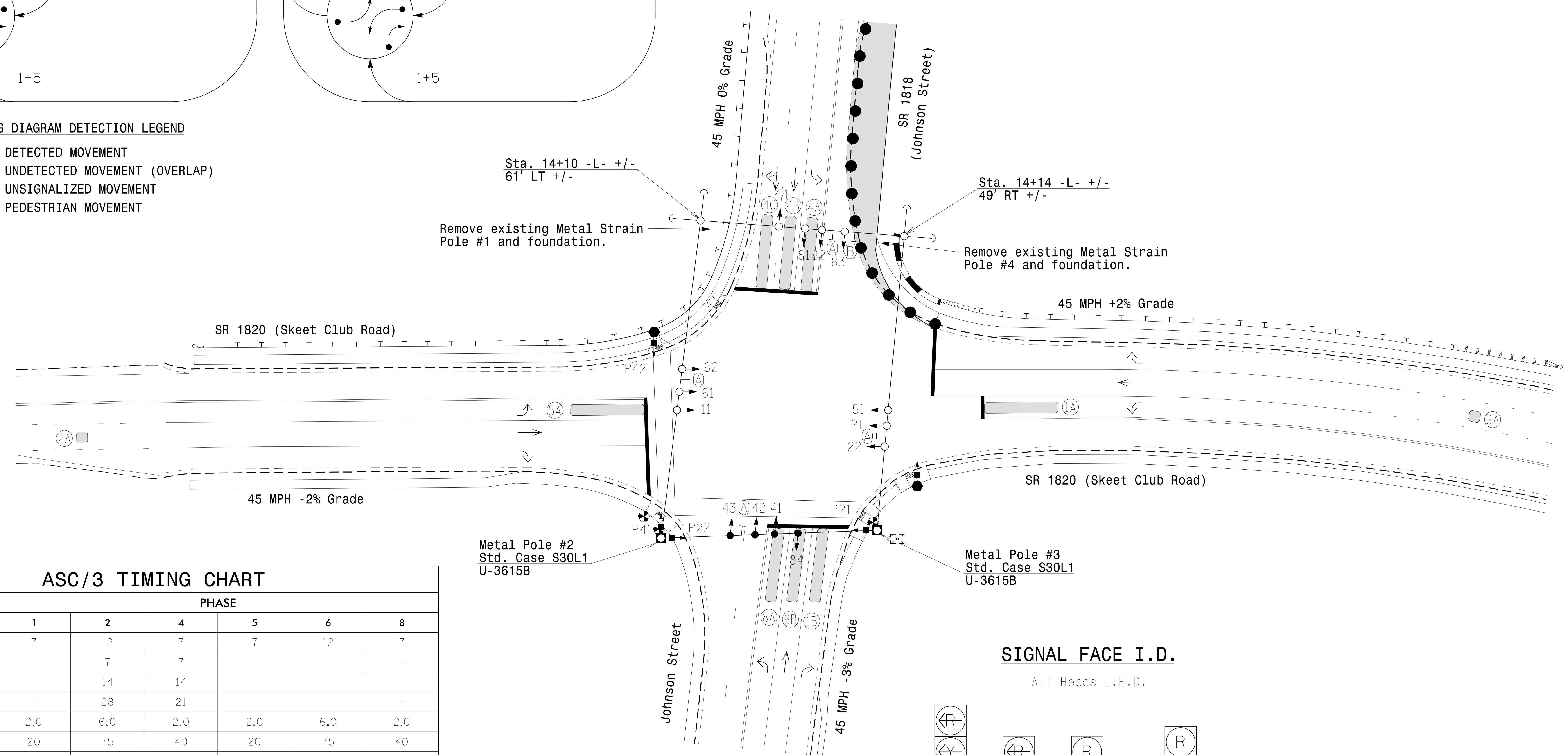
DETECTION: ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW ZONE	PROGRAMMING: PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM ZONE	NEW CARD
1A✳	6X40	0	✳	✳	1	Yes	-	15.0✳✳	-	N	-	✳
					6#	Yes	-	3.0	-	G	-	✳
1B✳	6X40	0	✳	✳	1	Yes	-	15.0	-	N	-	✳
2A✳	6X6	300	✳	✳	2	Yes	-	-	X	N	-	✳
4A✳	6X40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

✳ Non-Intrusive Detection Zone
✳✳ Reduce delay to 3 seconds during alternate phasing operation
Disable phase call for loop(s) during alternate phasing operation

5 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. Phase 1 and/or phase 5 may be lagged.
4. Set all detector units to presence mode.
5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
7. The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
8. This intersection uses video detection. Maintain detectors according to the manufacturer's instructions to achieve the desired detection.
9. Relocate existing Street Name Signs onto new spanwire from existing spanwire.
10. Disconnect and bag pedestrian signal head and pushbutton for P82.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



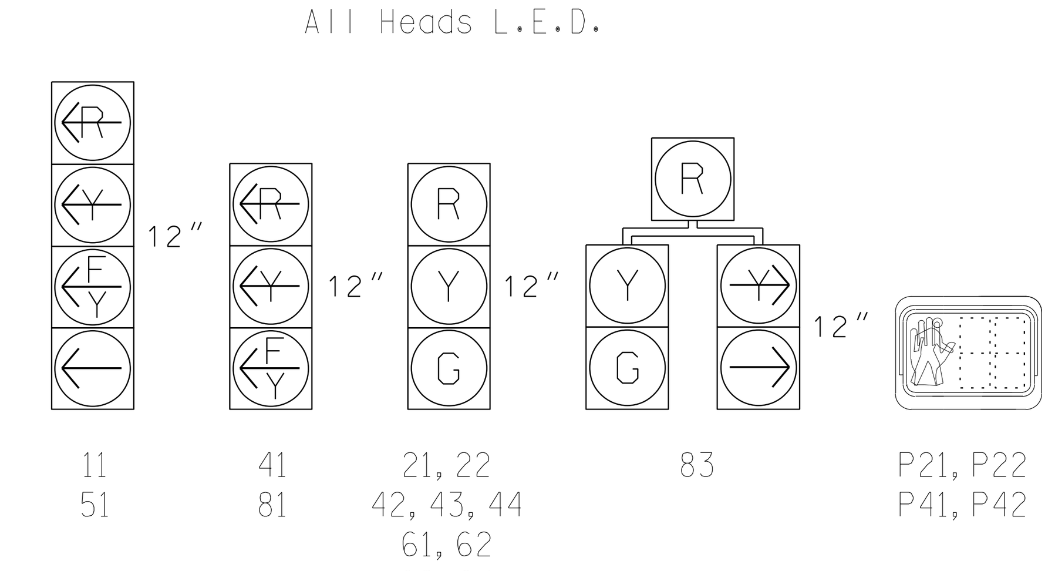
ASC/3 TIMING CHART

FEATURE	PHASE 1	2	4	5	6	8
Min Green *	7	12	7	7	12	7
Delayed Green	-	7	7	-	-	-
Walk *	-	14	14	-	-	-
Ped Clear	-	28	21	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	6.0	2.0
Max 1 *	20	75	40	20	75	40
Yellow	3.0	4.7	4.8	3.0	4.7	4.8
Red Clear	3.7	2.4	1.8	3.3	2.4	1.8
Actuations B4 Add *	-	-	-	-	-	-
Seconds /Actuation *	-	2.5	-	-	2.5	-
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

* 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.

SIGNAL FACE I.D.

All Heads L.E.D.



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	
	Non-Intrusive Detection Zone	N/A
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
N/A	Guardrail	
N/A	Concrete Barrier	
N/A	Construction Zone	
N/A	Construction Zone Drums	
	Metal Strain Pole	
	Type I Pushbutton Post	
	Type II Signal Pedestal	
N/A	Curb Ramp	
Ⓐ	Street Name Sign (D3-1) By Others	Ⓐ
Ⓑ	Right Arrow "ONLY" Sign (R3-5R)	Ⓑ

Signal Upgrade - Temporary Design 1
(TMP Phase I)

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
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 40
1"=40'

SR 1820 (Skeet Club Road)
at
SR 1818 (Johnson Street)

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 056276 JAMES T. STIFF

Signed by: James Stiff
0548D037872A434...
SIGNATURE 3/14/2025 DATE

SIG. INVENTORY NO. 07-0935T1