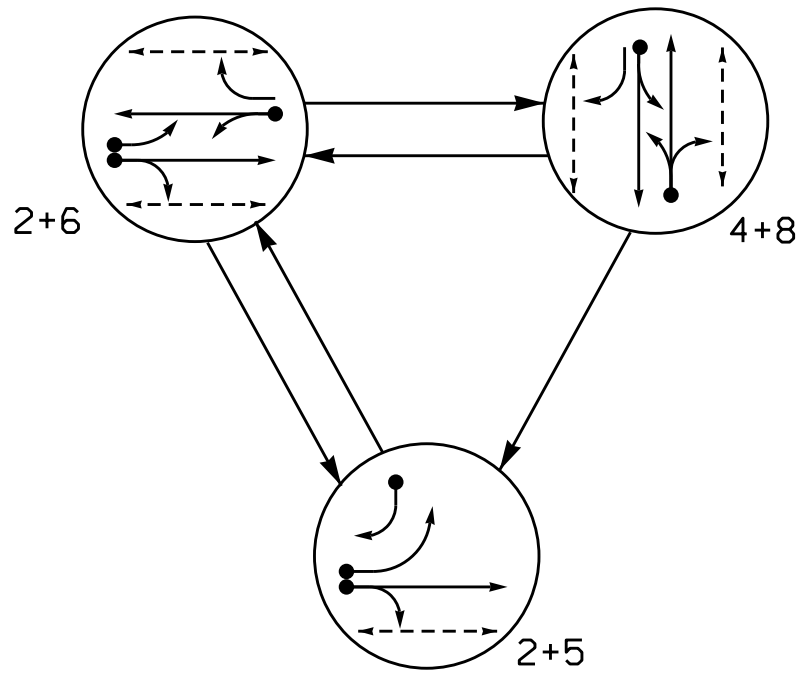
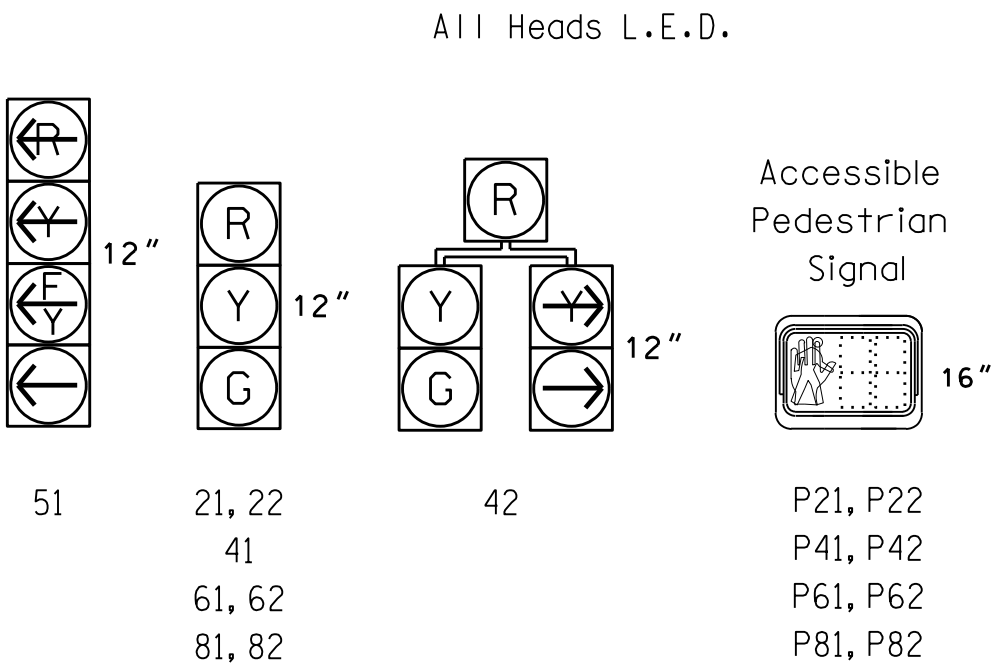


PHASING DIAGRAM



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

SIGNAL FACE I.D.



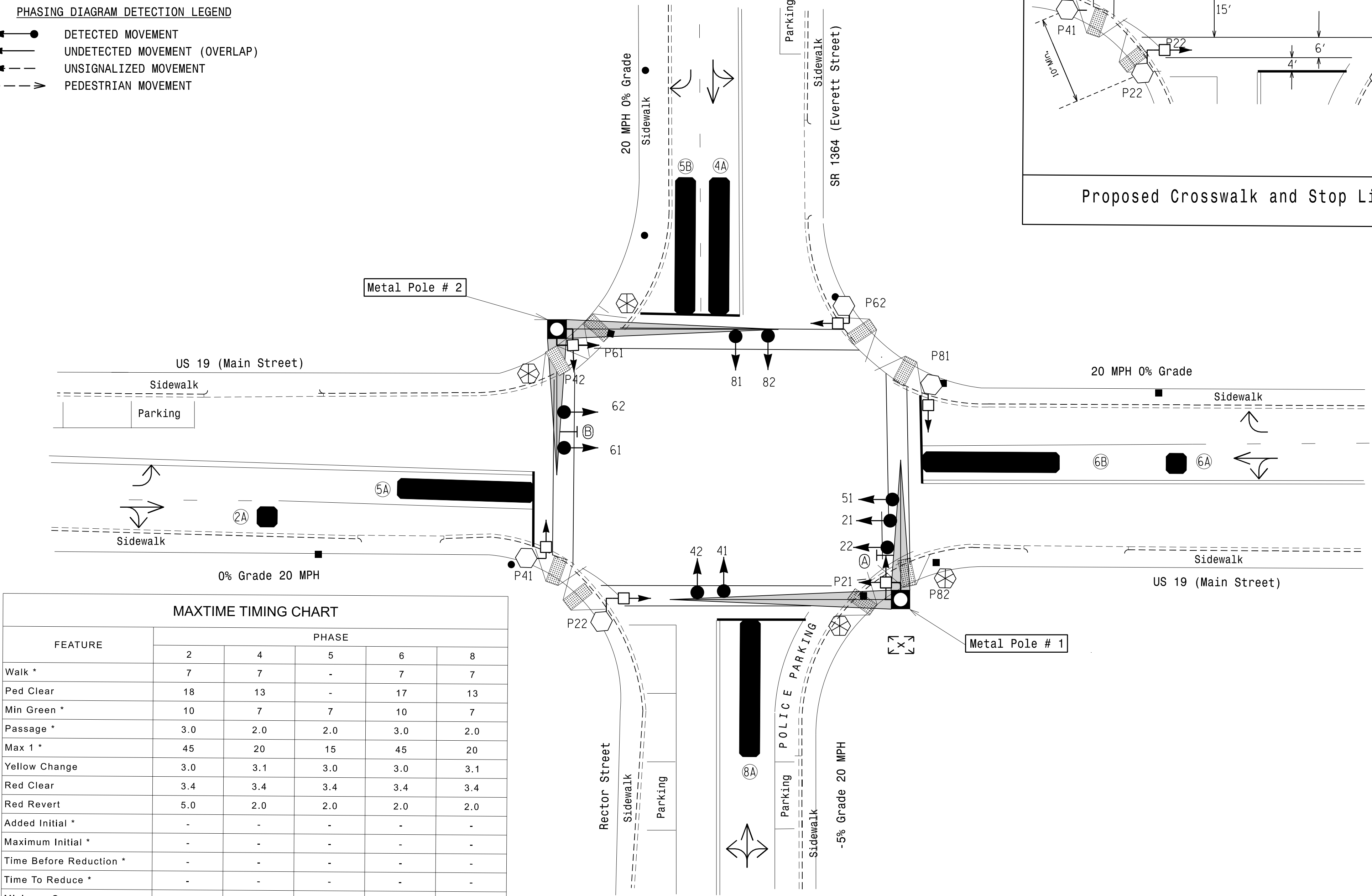
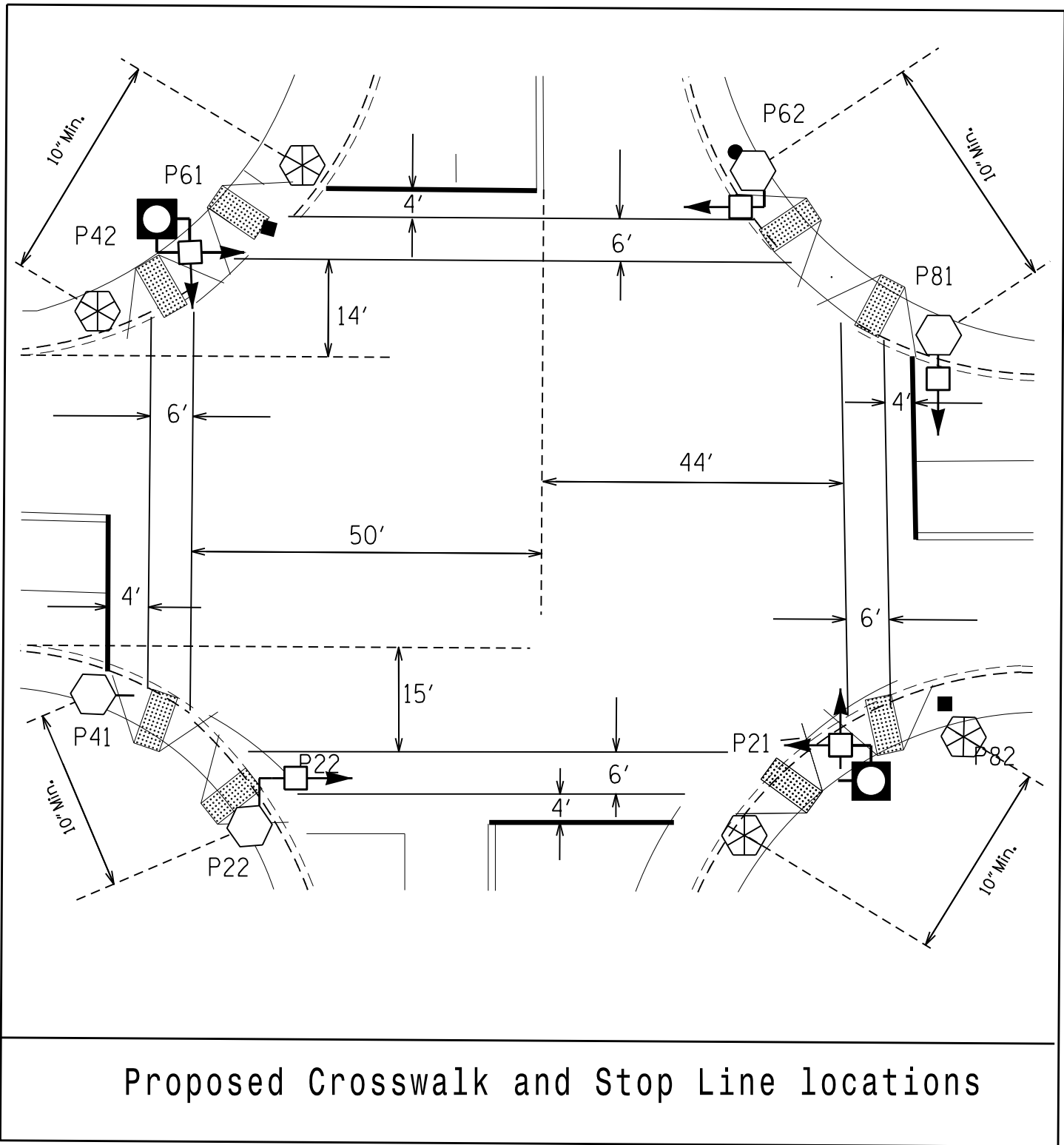
3 Phase Fully Actuated Isolated

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated July 2024 and "Standard Specifications for Roads and Structures" dated July 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Enable Backup Protect for phase 2 to allow the controller to clear from phase 2+6 to phase 2+5 by progressing through all red display.
- 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.
- This intersection features accessible pedestrian signals utilizing percussive tone walk indications and/or speech messages.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Install new 2070 LX controller in existing signal cabinet.

PHASING DIAGRAM DETECTION LEGEND

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



LEGEND

- | PROPOSED | EXISTING |
|--|--|
| Traffic Signal Head | Modified Signal Head |
| Sign | Signal Pole with Guy |
| Pedestrian Signal Head With Push Button & Sign | Signal Pole with Sidewalk Guy |
| Utility Pole | Metal Pole with Mastarm |
| Type I Pushbutton Post | Type II Pedestal |
| Inductive Loop Detector | Non-Intrusive Detection Zone |
| Controller & Cabinet | Junction Box |
| 2-in Underground Conduit | Directional Arrow |
| Combined Through and Right Arrow Sign (R3-6R) | Combined Through and Left Arrow Sign (R3-6L) |

FEATURE	PHASE				
	2	4	5	6	8
Walk *	7	7	-	7	7
Ped Clear	18	13	-	17	13
Min Green *	10	7	7	10	7
Passage *	3.0	2.0	2.0	3.0	2.0
Max 1 *	45	20	15	45	20
Yellow Change	3.0	3.1	3.0	3.0	3.1
Red Clear	3.4	3.4	3.4	3.4	3.4
Red Revert	5.0	2.0	2.0	2.0	2.0
Added Initial *	-	-	-	-	-
Maximum Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Advance Walk	7	7	-	7	7
Non Lock Detector	-	X	X	-	X
Vehicle Recall	MIN RECALL	-	-	MIN RECALL	-
Dual Entry	-	X	-	-	X

* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

Signal Upgrade (Sheet 1 of 2)

Prepared in the Offices of:

Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA
Signal Design Section

750 N. Greenfield Hwy, Garner, NC 27529

US 19 (Main Street)
at
SR 1364 (Everett Street)/
Rector Street

Division 14 Swain County Bryson City

PLAN DATE: October 2025 REVIEWED BY: R.N. Zinser

PREPARED BY: Adja Fall REVIEWED BY:

REVISIONS

SCALE 0 20 1"=20'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL
043914
RICHARD N. ZINSER
ENGINEER

DocuSigned by
R. Nicholas Zinser
10/23/2025
DATE
SIC. INVENTORY NO. 14-0402