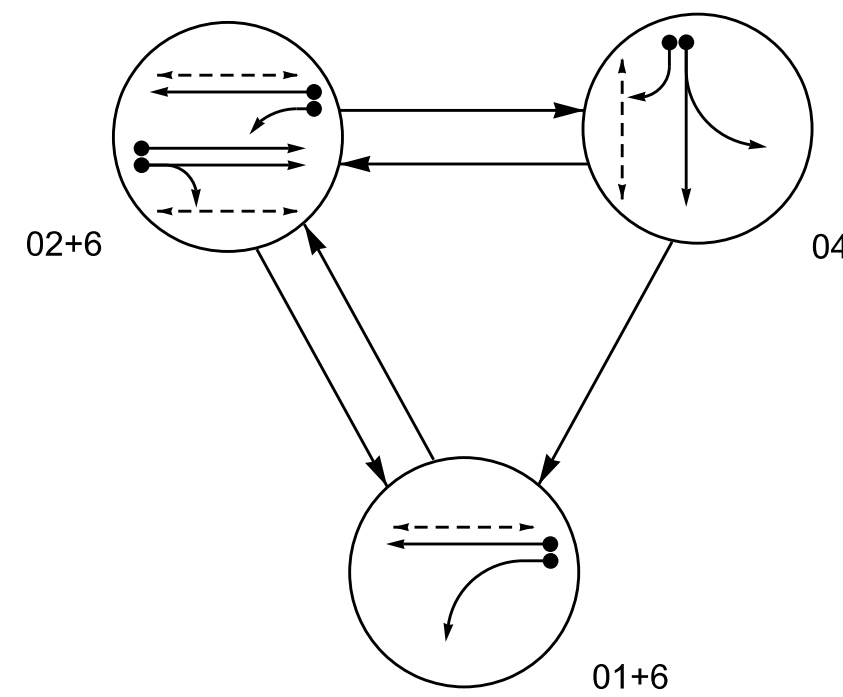


PHASING DIAGRAM



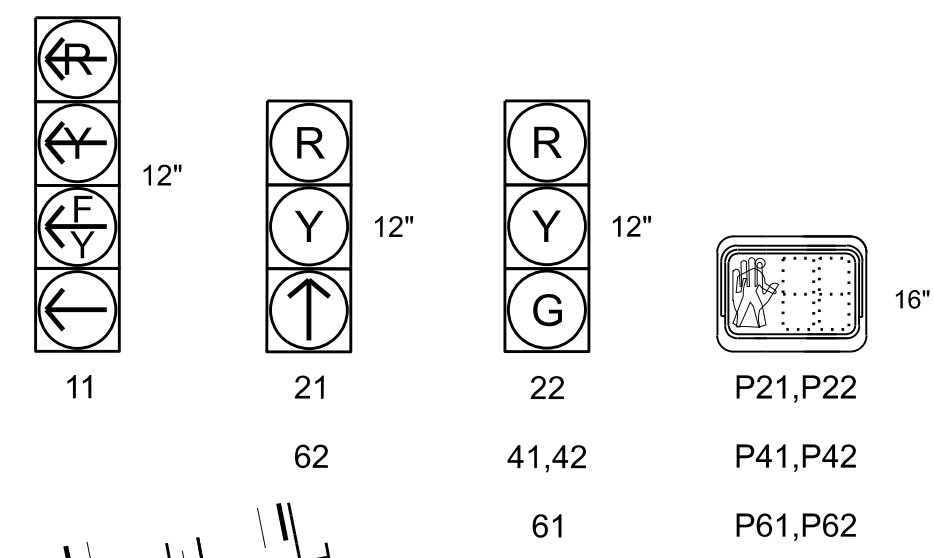
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE			
	0-1 0+2	0+3	4	40+ 100+ 150+
11	←	←	←	←
21	R	↑	R	Y
22	R	G	R	Y
41,42	R	R	G	R
61	G	G	R	Y
62	↑	↑	R	Y
P21,P22	DW	W	DW	DRK
P41,P42	DW	DW	W	DRK
P61,P62	W	W	DW	DRK

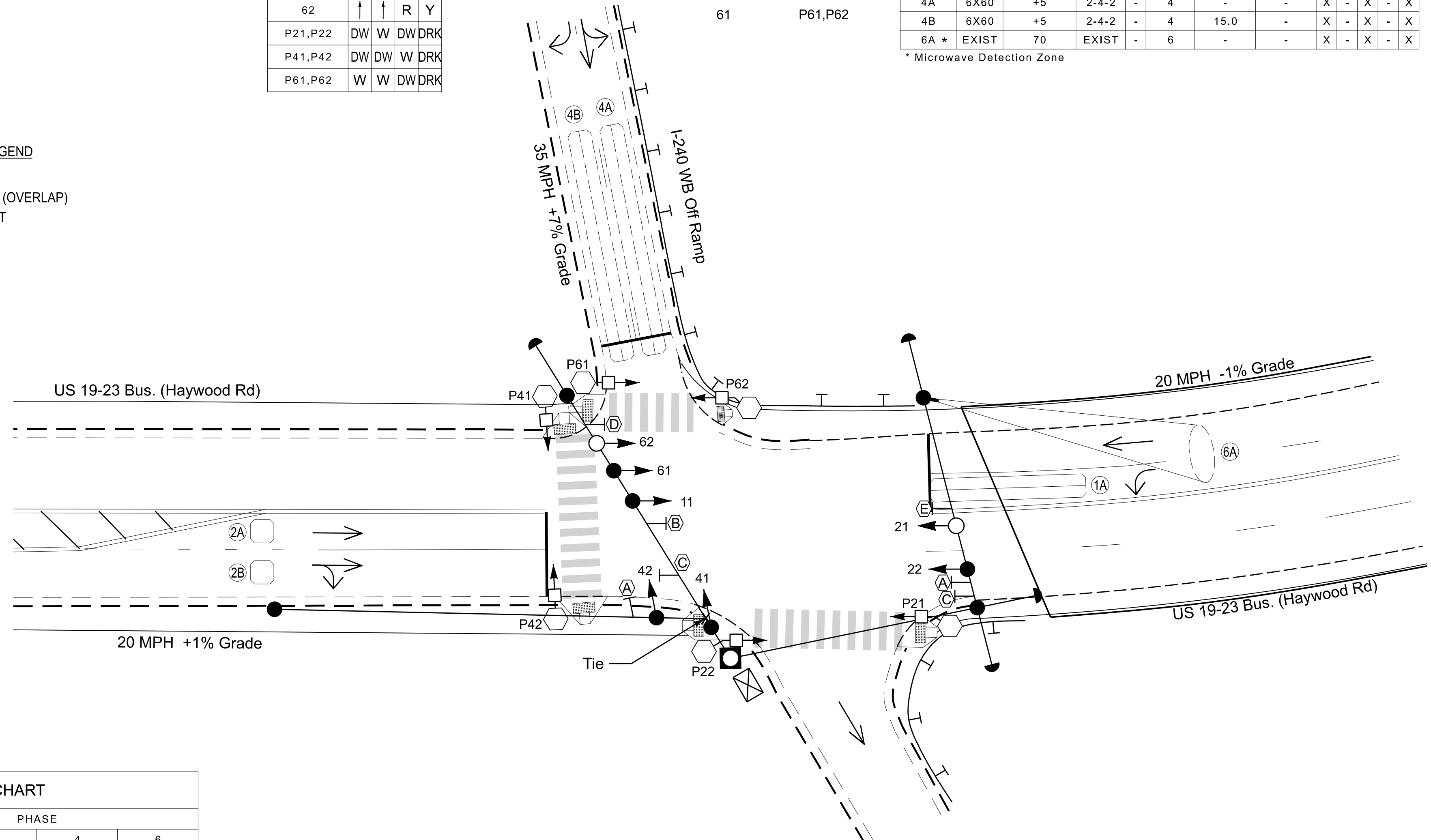
SIGNAL FACE I.D.

All Heads L.E.D.



LOOP	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	PROGRAMMING				ADDED INITIAL	CALL DELAY DURING GREEN	NEW CARD
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND			
1A	6X40	0	2-4-2	X	1	15.0	-	X	-	X	-
					6	-	-	X	-	X	-
2A	6X6	70	EXIST	X	2	-	-	X	-	X	-
2B	6X6	70	EXIST	X	2	-	-	X	-	X	-
4A	6X60	+5	2-4-2	-	4	-	-	X	-	X	-
4B	6X60	+5	2-4-2	-	4	15.0	-	X	-	X	-
6A *	EXIST	70	EXIST	-	6	-	-	X	-	X	-

* Microwave Detection Zone



MAXTIME TIMING CHART

FEATURE	PHASE			
	1	2	4	6
Walk *	-	14	13	7
Ped Clear	-	13	10	7
Min Green *	7	10	7	10
Passage *	2.0	3.0	2.0	3.0
Max 1 *	20	60	25	60
Yellow Change	3.0	3.0	3.5	3.0
Red Clear	2.1	3.1	1.7	3.1
Added Initial *	-	-	-	-
Maximum Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Advance Walk	-	7	6	-
Non Lock Detector	X	-	X	-
Vehicle Recall	-	PED RECALL	-	PED RECALL
Dual Entry	-	-	-	-
Actuated Rest in Walk	-	X	-	X
Ped Recycle	-	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.

3 Phase Full Actuated D13-22_Ashville

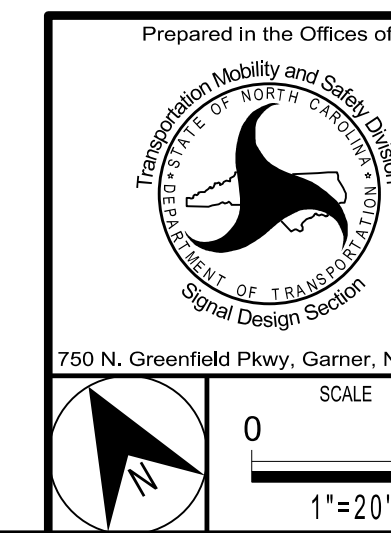
NOTES

- 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 may be lagged.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section. 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 for Phase 4.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

- | PROPOSED | | EXISTING |
|----------|--|----------|
| | Traffic Signal Head | |
| | Modified Signal Head | N/A |
| | Signal | N/A |
| | Pedestrian Signal Head | |
| | 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 | |
| | Curb Ramp | |
| | Type II Signal Pedestal | |
| | Right "TURNING VEHICLES" Yield "TO" Pedestrians Sign (R10-15R) | |
| | Left "TURNING VEHICLES" Yield "TO" Pedestrians Sign (R10-15L) | |
| | "NO TURN ON RED" Sign (R10-11) | |
| | No Right Turn Sign (R3-1) | |
| | No Left Turn Sign (R3-2) | |
| | Detection Zone | |

New Installation



US 19-23 Bus. (Haywood Rd) at I-240 WB Off-Ramp

Division 13 Buncombe County Asheville

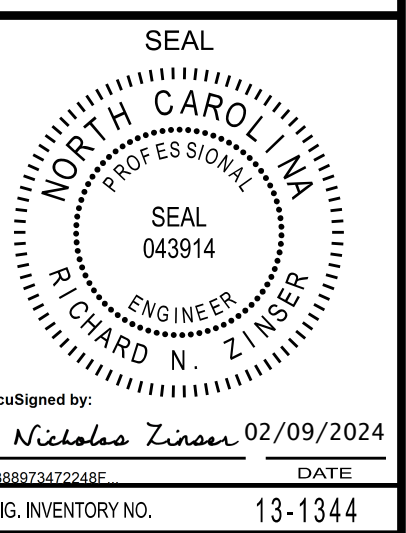
PLAN DATE: January 2024 REVIEWED BY: R.N. Zinser

PREPARED BY: T.A. Kenion REVIEWED BY:

REVISIONS

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DocuSigned by: R. Nicholas Zinser 02/09/2024
F438887847228F
SIG. INVENTORY NO. 13-1344