

02+6

PHASING DIAGRAM DETECTION LEGEND

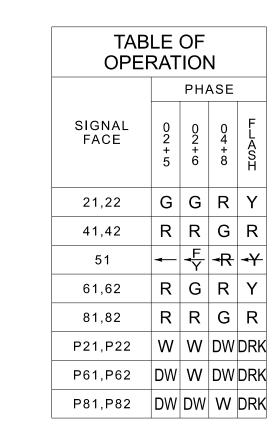
DETECTED MOVEMENT

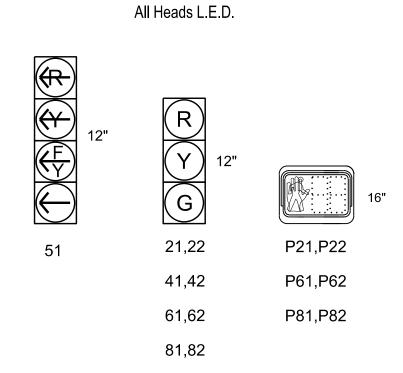
← − − > PEDESTRIAN MOVEMENT

UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

PHASING DIAGRAM





SIGNAL FACE I.D.

	DI	ETECTOR	PROGRAMMING									
LOOP	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2A *	EXIST	70	EXIST	-	2	-	-	Х	-	Х	-	-
4A	6X60	+30	2-4-2	-	4	10.0	-	Х	-	Х	-	-
5A	6X40	0	2-4-2	Х	5	15.0	-	Х	-	Х	-	-
					2	-	-	Х	-	Х	-	-
6A	6X6	70	4	Χ	6	-	-	Х	-	Х	-	-
6B	6X6	70	4	Х	6	-	-	Х	-	Х	-	-
8A	6X60	+5	3	-	8	10.0	-	Х	-	Х	-	_

3 Phase Fully Actuated D13-22_Asheville

NOTES

- 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. Enable Backup Prevention programming for phase 2 to allow the controller to clear from phase 02+6 to phase 02+5 by progressing through an all red display.
- 4. Set all detector units to presence
- 5. 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.

 6. Disconnect existing pushbuttons for pedestrian signal heads P21 and P22.

 7. Omit "WALK" and flashing "DON'T
- WALK" with no pedestrian calls for phase 8.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 9. See Pavement Marking Plans for proposed crosswalk locations.
- 10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

			1% (Grade	
MAXTIME TIMING CHART					
FEATURE	PHASE				
FEATURE	2	4	5	6	8
Walk *	14	-	-	14	14
Ped Clear	11	-	-	10	13
Min Green *	10	7	7	10	7
Passage *	3.0	2.0	2.0	3.0	2.0
Max 1 *	60	25	20	60	25
Yellow Change	3.0	3.0	3.0	3.0	3.0
Red Clear	3.3	3.6	2.5	3.3	3.6
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
Non Lock Detector	-	Х	Х	-	Х
Vehicle Recall	PED RECALL	-	-	PED RECALL	-
Dual Entry	-	X	-	-	Х

PROPOSED		EXISTING
\bigcirc	Traffic Signal Head	
O	Modified Signal Head	N/A
\dashv	Sign	\dashv
-	Pedestrian Signal Head	-
\bigcirc	Signal Pole with Guy	•
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	×_3
	Junction Box	
— ·· X-UC ·· —	 2-in Underground Conduit 	— UC
N/A	Right of Way	
\longrightarrow	Directional Arrow	\longrightarrow
N/A	Curb Ramp	
	Metal Strain Pole	
\bigcirc	Type II Signal Pedestal	
₩	Type I Pushbutton Post	€
A	Right "TURNING VEHICLES" Yield "TO" Pedestrians Sign (R10-14L)	A
B	Left "TURNING VEHICLES" Yield "TO" Pedestrians Sign (R10-15L)	lacksquare
	Detection Zone	

Signal Upgrade US 19-23 Business / SR 3548 (Haywood Road)

I-240 EB Ramp / Hanover Street Buncombe County Asheville December 2023 REVIEWED BY: R.N. Zinser PREPARED BY: T.A. Kenion REVIEWED BY: REVISIONS INIT. DATE

SIGNATURES COMPLETED K. Nicholas Zinser 02/09/2024 SIG. INVENTORY NO.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

Actuated Rest in Walk

Simultaneous Start

Ped Recycle

* 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