DEFAULT PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNSIGNALIZED MOVEMENT PEDESTRIAN MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

SIGNAL FACE I.D.

All Heads L.E.D.

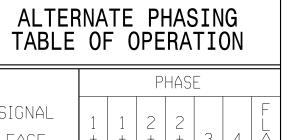
21,22 32,33 43

ALTERNATE PHASING DIAGRAM

35 MPH -1% Grade

(Design Speed 45 MPH)

Sig-32.0 R-5600 6 Phase Fully Actuated w/ Alternate Phasing Operation (Time Based Coordination) 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. The order of phase 3 and phase 4 may be reversed. 5. Reposition signal heads numbered 61, 62 and 63. 6. Bag and disconnect pedestrian heads and pushbuttons for P61 and P62. 7. Unbag and reconnect pushbutton for P42. 8. Omit "WALK" and flashing "DON'T WALK" with no pedestrian 9. Program pedestrian heads to countdown the flashing "Don't Walk" time only 10. To provide a leading pedestrian interval on phase 4, program FYA heads numbered 44 to delay for 7 seconds after the start of the phase 4 walk interval. See Electrical Details for programming. 11. Remove existing Right Arrow "Only" sign (R3-5R) on Southbound 12. The Division Traffic Engineer will determine the hours of use for each phasing plan 13. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection. 14. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values. LEGEND **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 Oversized Junction Box 2-in Underground Conduit Right of Way \longrightarrow Directional Arrow Type II Signal Pedestal Temporary Pedestrian Post with Ped Push Button & Sign Non-Intrusive Detection Zone Construction Zone N/A Barricade Temporary Construction Easement Permenant Utility Easement _____ PUE ____ "RIGHT TURN SIGNAL" Sign (R10-10R) DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED NC 107 (E Main Street) SEAL 052936



DW|DW|W|W|DW|DRH

|DW|DW|DW|DW| W |DRI

				HU	L							IIHJI	_
SIGNAL FACE	1 + 5	1 + 6	2 + 5	2 + 6	3	4	FLASH	SIGNAL FACE	1 + 5	1 + 6	2+5	0 + N	
11	•	-	- F	- F				11	-	•		◄	-
21,22	R	R	G	G	R	R	R	21, 22	R	R	G	G	
31	R	R	R	R	G	R	R	31	R	R	R	R	
32,33	R	R	R	R	G	R	R	32,33	R	R	R	R	
41	₩	→ R	→	→ R	₩	-	→ R	41	→ R	₩	₩	+	-
42	R	R	R	R	R	G	R	42	R	R	R	R	
43	R	R	R	R	R	G	R	43	R	R	R	R	
44	-	R	-	R	R	F	R	44	-	R	-	R	
51	-	F Y	-	- F	₩	₩	- R	51	-	₩	-	+	-
61,62	R	G	R	G	R	R	R	61,62	R	G	R	G	

P21, P22

P41, P42

//Tithininininini

	MAXT	IME DE	TECTO	R	INST	ALLA7	ΓΙΟΝ	CH.	AR [*]	T		
	DET	ECTOR			PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
- A	*		*	v	1	15.0**	-	Χ	-	Χ	<u>-</u>	*
1A		0		X	6#	<u>-</u>	-	Χ	_	Χ	_	*
3A	*	0	*	Χ	3	5.0	-	Χ	_	Χ	_	*
4A	*	0	*	-	4	3.0	-	Χ	_	Χ	_	*
4B	*	0	*	-	4	_	-	Χ	-	Χ	_	*
- -	*		*		5	15.0**	-	Χ	-	Χ	-	*
5A		0	•	-	2#	_	-	Χ	-	Χ	-	*
5B	*	0	*	-	5	15.0	-	Χ	-	Χ	-	*

- ** Disable delay during Alternate Phase Operation.

Phasing Operation.

35 MPH 0% Grade

(Design Speed 45 MPH)

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NC 107

- * Multi-Zone Microwave Detection Zone
- # Disable Phase call for loop during Alternate

Sidewalk Slack Spar Sidewalk NC 107 (E Main Street)

DEFAULT PHASING

TABLE OF OPERATION

P21, P22

PHASE

DW DW W W DW DW DF

DW|DW|DW|DW| W |DR

	MA	XTIME	TIMING	CHART					
FFATURE	PHASE								
FEATURE	1	2	3	4	5	6			
Walk *	_	14	_	14	_	_			
Ped Clear *	=	20	_	23	_	_			
Min Green	7	12	7	7	7	12			
Passage *	2.0	2.0	2.0	2.0	2.0	2.0			
Max 1 *	45	90	30	40	45	90			
Yellow Change	3.0	4.6	4.2	3.8	3.0	4.6			
Red Clear	2.6	2.3	2.8	2.1	3.1	2.3			
Added Initial *	_	_	_	_	_	_			
Maximum Initial *	_	_	_	_	_	_			
Time Before Reduction *	_	_	_	_	_	_			
Time To Reduce *	_	_	_	_	_	_			
Minimum Gap	_	_	_	_	_	_			
Advance Walk	_	7	_	**	_	_			
Non Lock Detector	Х	_	Х	Х	Х	_			
Vehicle Recall	_	MIN RECALL	_	_	_	MIN RECALL			

44

63

P41, P42

Dual Entry	_	_	_	_	_	_
* These values may be field	d adjusted. Do	not adjust Min C	Green and Exten	sion times for p	hases 2 and 6	lower than who
is shown. Min Green for	all other phases	should not be l	ower than 4 sec	onds.		
** See note 10.						

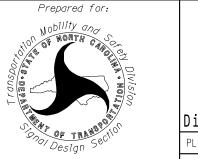
Microwa	ave De	tecti	.on		
	(2	(2A)		A	
FUNCTION	Sen	Sensor 1		sor 2	
Channel		1	1		
Phase		2	6		
Direction of Travel	١	IB	SB		
Туре	Prio	ority	Priority		
Level	2	QUEUE	2	QUEUE	
Detection Zone (ft)	< 750	_	< 750	_	
Range (ft)	600–100	150–100	600–100	150–100	
Enable Speed	Y	Y	Υ	Y	
Speed Range (mph)	35–100	1–35	35–100	1–35	
Enable Estimated Time of Arrival	Y	Ν	Y	N	
Estimated Time of Arrival (sec)	2.5-6.5	_	2.5–6.5	_	

Signal Upgrade

Plans Prepared By:

DRMP, INC. 8210 UNIVERSITY EXECUTIVE PARK DR. SUITE 220 CHARLOTTE, NC 28262 NC LICENSE NO. F-1524 (704) 549-4260

Temporary Design 2 - TMP Ph1, S2, Part 1



1"=40'

NC 116 (Webster Road) Alexander Street

approach.

PROPOSED

N/A

 \longrightarrow

N/A

N/A

N/A

Division 14 Jackson County

Brittany Groome

PLAN DATE: August 2025 REVIEWED BY: ZM Esposito PREPARED BY: DS Griffith REVIEWED BY: BN Groome REVISIONS INIT. DATE

SIG. INVENTORY NO. |4-04||72