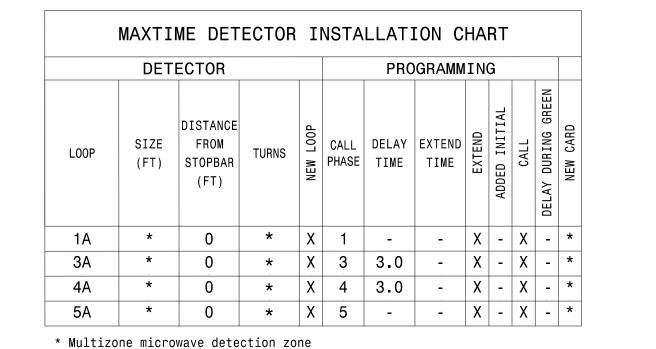
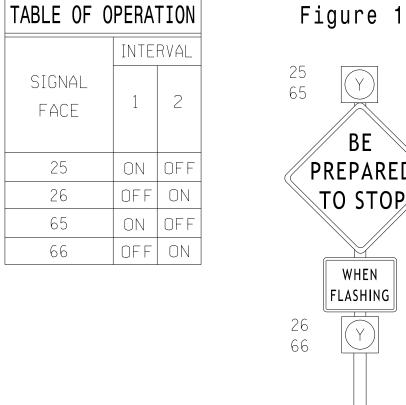
PROJECT REFERENCE NO. SHEET NO. R-5857 Sig.10.0

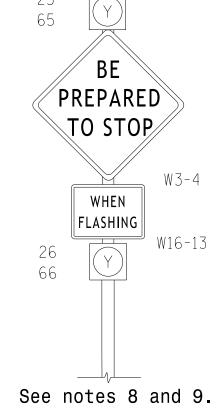
6 Phase Fully Actuated Isolated

NOTES

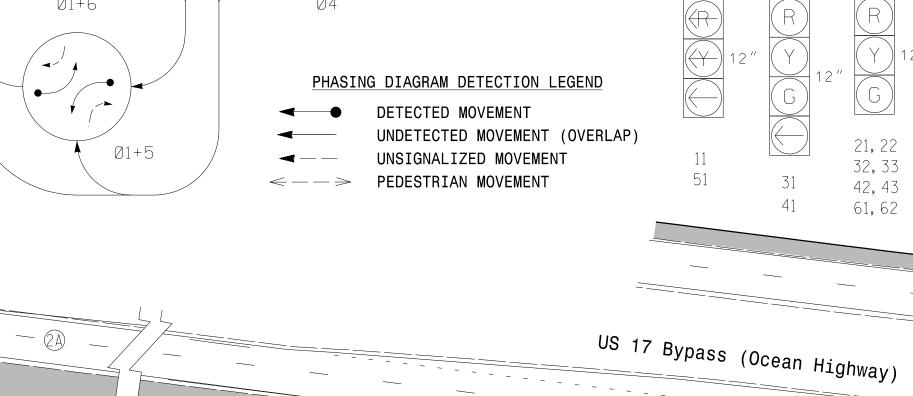
- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024, "Standard Specifications for Roads and Structures" dated January 2024.
- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Phase 1 and/or phase 5 may be lagged.
- 4. The order of phase 3 and phase 4 may be reversed.
- 5. Set all detector units to presence mode.
- 6. Locate new cabinet so as not to obstruct sight ditance of vehicles turning right on red.
- 7. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- 8. Activate flashers 3 seconds prior to end of phase 2 and/or phase 6 green.
- 9. Flash vertically-mounted beacons alternately.
- 10. Install new conduit as close as possible to edge of pavement.
- 11. Pavement markings are existing.







R G R G R R R SIGNAL FACE I.D. All Heads L.E.D.



See Note 10

PHASING DIAGRAM

02+6

02+5

21, 22 32, 33 42,43 61,62

55 Mph -1% Grade

-450′ from Stop Line

TABLE OF OPERATION

RRGGGRRRR

R R R R G R

R R R R G R R

RRRRRRGR

SIGNAL

FACE

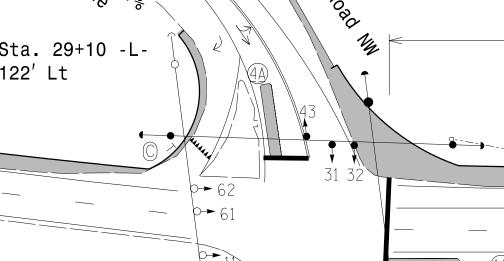
42,43

61, 62

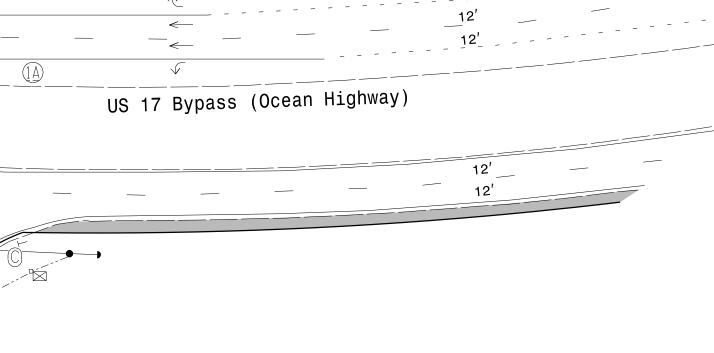
Sta. 29+10 -L-122' Lt

Sta. 29+70 -L-

124' Rt



See Note 10 55 Mph -2% Grade



1 Glenwood Avenue

Raleigh, NC 27603 Tel:919.789.9977 Fax:919.789.9591

License: F-0453

450' from Stop Line

LEGEND							
PROPOSED		EXISTING					
\bigcirc	Traffic Signal Head	• -					
√	Modified Signal Head Sign	N/A —					
_	Pedestrian Signal Head	•					
	Signal Pole with Guy Signal Pole with Sidewalk Guy						
	Controller & Cabinet Junction Box	×					
	2-in Underground Conduit -						
	Type III Signal Pedestal						
N/A >	Right of Way Directional Arrow	\longrightarrow					
—— DD ——	Directional Drill	N/A					
	Detection Zone						

Construction Zone Signal Ahead Sign (W3-3) "BE PREPARED TO STOP" Sign (W3-4)
w/ "WHEN FLASHING" Plaque (W16-3) B (See Figure 1) "YIELD" Sign (R1-2)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

	MAX	KTIME T	IMING	CHART			
FFATURE	PHASE						
FEATURE	1	2	3	4	5	6	
Walk *	_	_	-	_	_	_	
Ped Clear	_	_	_	_	_	_	
Min Green *	7	14	7	7	7	14	
Passage *	3.0	2.0	2.0	2.0	2.0	2.0	
Max 1 *	45	90	25	25	15	90	
Yellow Change	3.0	5.4	3.9	3.9	3.0	5.4	
Red Clear	3.3	1.0	2.8	2.9	3.2	1.0	
Added Initial *	-	-	_	-	_	_	
Maxim <u>u</u> m Initial *	-		_	-	_	-	
Time Before Reduction *	-	-	_	-	_	_	
Time To Reduce *	-	-	_	_	_	_	
Minimum Gap	-	-	_	-	_	_	
Advance Walk	-	-	_	_	_	_	
Pre-Clearance	_	3.0	_	_	_	3.0	
Non Lock Detector	Х	-	Х	Х	х	_	
Vehicle Recall	_	MIN RECALL	_	_	_	MIN RECALL	

200'

			-			
* These values may be field	l adjusted. Do	not adjust Min	Green and Passo	age times for ph	ases 2 and 6 lo	ower than
what is shown. Min Greer	for all other pl	nases should no	t be lower than	4 seconds.		

ADVANCED MICROWAVE	EXT	ENDED RA	NGE	DETE	CTION	
FUNCTION		Sensor	1 (2)	Sensor 2 6A		
Channel		1		1		
Phase		2		6		
Direction of Travel		NB			SB	
Туре		PRIORITY				
Level		1		2	QUEUE	
Discovery Zone (ft)		>=750	<750		N/A	
Range (ft)		100-900	100-600		100-150	
Enable Speed		Y	Y		Y	
Speed Range (mph)		35-100	35-	100	1-35	
Enable Estimated Time of Arrival		Y	`	Ý	N	
Estimated Time of Arrival (sec)		2.5-10.0	2.5	-6.5	_	

Prepared for the Offices of:

New Installation - Temporary Design 1 (TMP Phase 1)

US 17 Bypass (Ocean Highway W) at US 17 Business (Main Street)/ Frontage Road NW

Division 3 Brunswick County PLAN DATE: March 2025 REVIEWED BY: G. G. Murr, Jr.

750 N.Greenfield Pkwy, Garner, NC 27529 PREPARED BY: Nadia Degbotse REVIEWED BY:

Gene G. Miss gr SIG. INVENTORY NO.