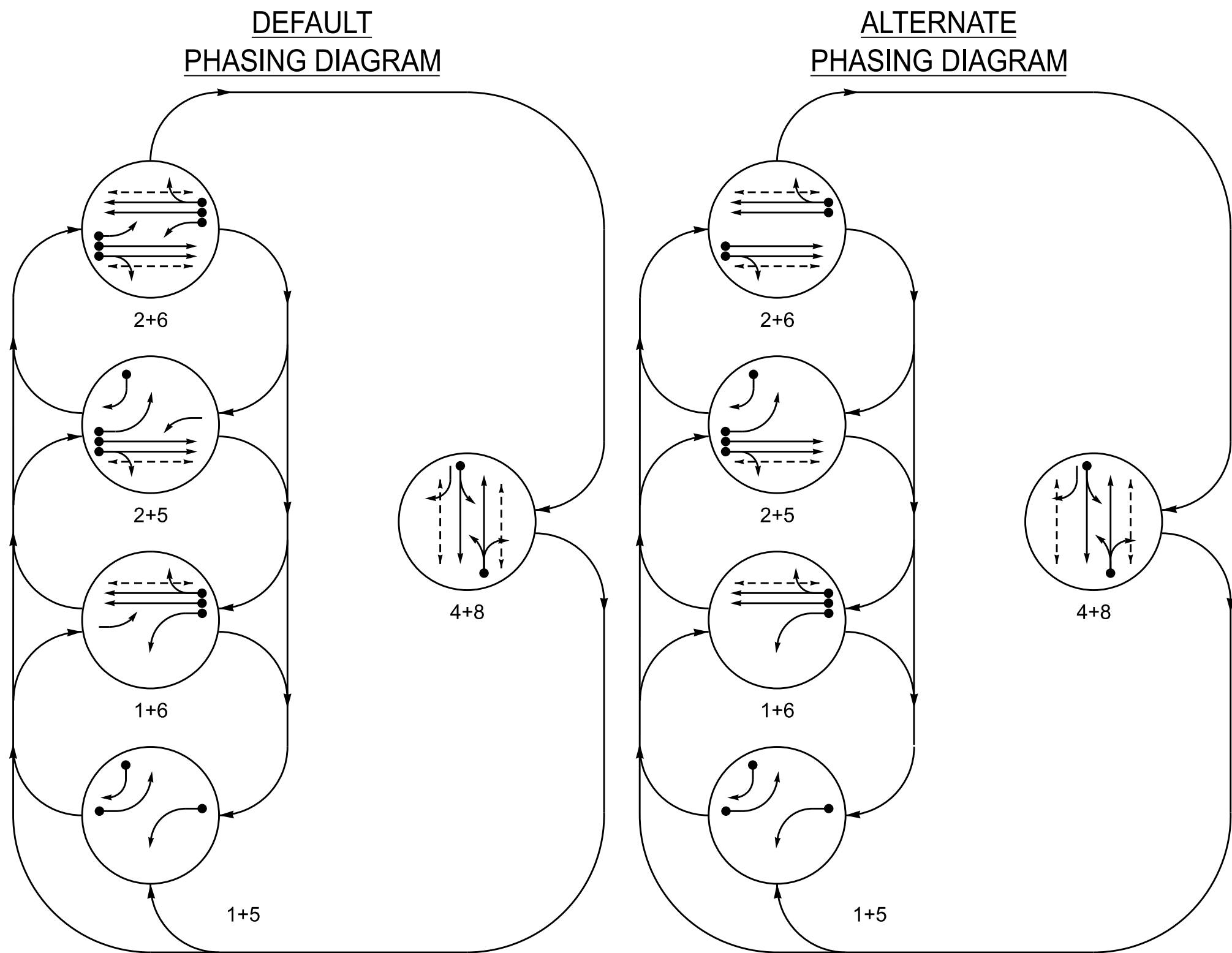


DEFAULT TABLE OF OPERATION

SIGNAL FACE	PHASE				
	1 + 5	1 + 6	2 + 5	2 + 6	4 + 8
11	←	←	←	←	←
21,22	R	R	G	G	R
41,42	R	R	R	R	G
43	→	→	→	→	→
51	←	←	←	←	←
61,62	R	G	R	G	R
81,82	R	R	R	R	G
P21,P22	DW	DW	W	W	DWDRK
P41,P42	DW	DW	DW	DW	W DRK
P61,P62	DW	W	DW	W	DWDRK
P81,P82	DW	DW	DW	DW	W DRK

ALTERNATE TABLE OF OPERATION

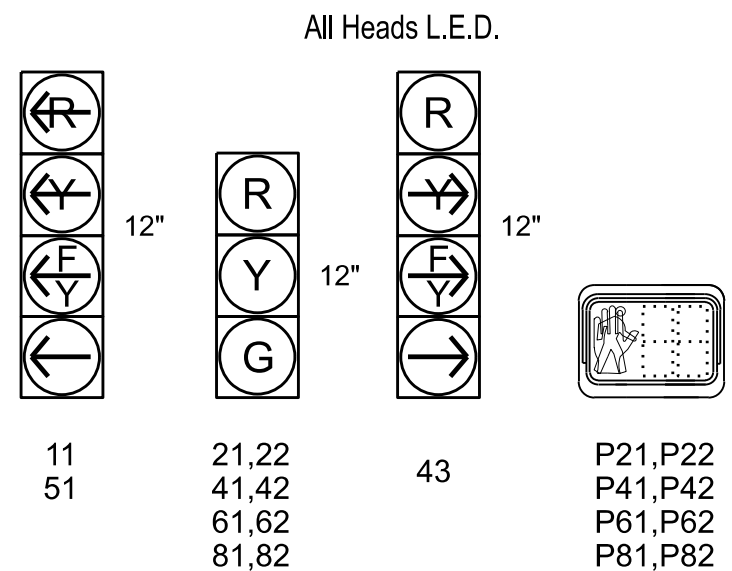
SIGNAL FACE	PHASE				
	1 + 5	1 + 6	2 + 5	2 + 6	4 + 8
11	←	←	←	←	←
21,22	R	R	G	G	R
41,42	R	R	R	R	G
43	→	→	→	→	→
51	←	←	←	←	←
61,62	R	G	R	G	R
81,82	R	R	R	R	G
P21,P22	DW	DW	W	W	DWDRK
P41,P42	DW	DW	DW	DW	W DRK
P61,P62	DW	W	DW	W	DWDRK
P81,P82	DW	DW	DW	DW	W DRK

MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					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
1A	*	0	*	*	1	15**	-	X	-	X	*
2A	*	*	*	*	6#	-	-	X	-	X	*
4A	*	+5	*	*	2	-	-	X	-	X	*
5A	*	0	*	*	4	3	-	X	-	X	*
5B	*	+5	*	*	5	15**	-	X	-	X	*
6A	*	*	*	*	2#	-	-	X	-	X	*
8A	*	+5	*	*	8	5	-	X	-	X	*

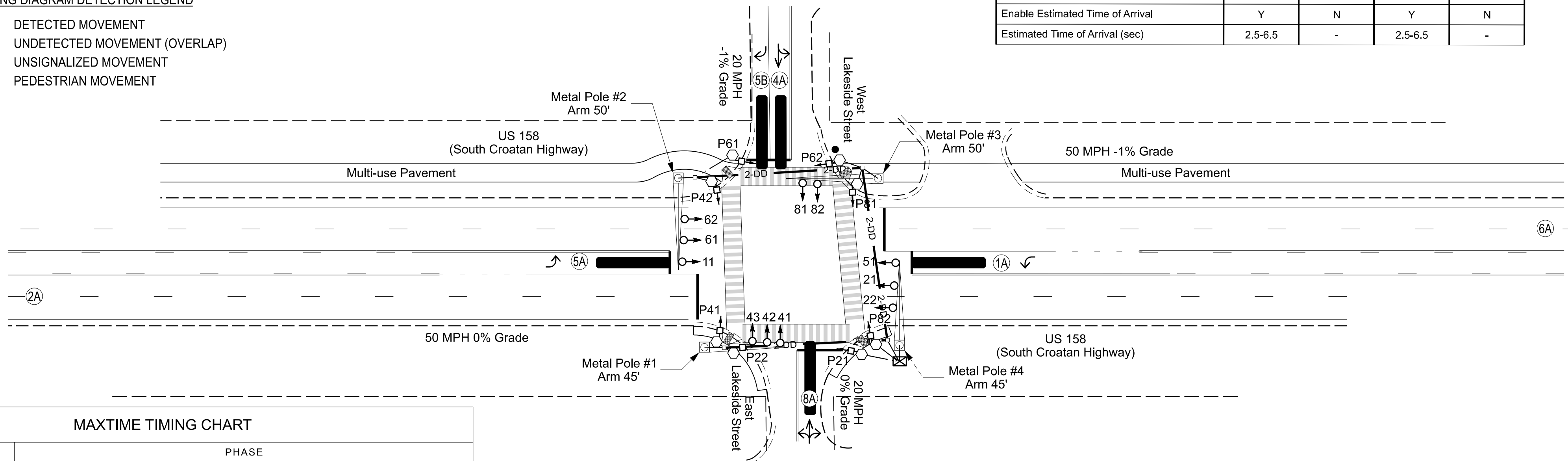
* Multi-zone Microwave Detection.
** Reduce Delay to 3 Seconds During Alternate Phasing Operation.
Disable Phase Call for Loop(s) During Alternate Phasing Operation.

SIGNAL FACE I.D.



Microwave Detection System

FUNCTION	Sensor 1 (2A)	Sensor 2 (6A)
Channel	1	1
Phase	2	6
Direction of Travel	NB	SB
Type	Priority	Priority
Level	2	2
Discovery Zone (ft)	QUEUE	QUEUE
Range (ft)	<750	<750
Enable Speed	600-100	150-100
Speed Range (mph)	Y	Y
Enable Estimated Time of Arrival	35-100	1-35
Estimated Time of Arrival (sec)	2.5-6.5	2.5-6.5



MAXTIME TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Walk *	-	14	14	-	14	14
Ped Clear	-	15	22	-	13	22
Min Green *	7	14	7	7	14	7
Passage *	2.0	2.0	2.0	2.0	2.0	2.0
Max 1 *	20	90	30	20	90	30
Yellow Change	3.0	4.9	3.0	3.0	4.9	3.0
Red Clear	2.6	1.1	3.1	2.9	1.1	3.1
Added Initial *	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Advance Walk	-	7	7	-	7	7
Non Lock Detector	X	-	X	X	-	X
Vehicle Recall	-	MIN RECALL	-	-	MIN RECALL	-
Dual Entry	-	-	X	-	-	X
Simultaneous Start	-	-	X	-	-	X

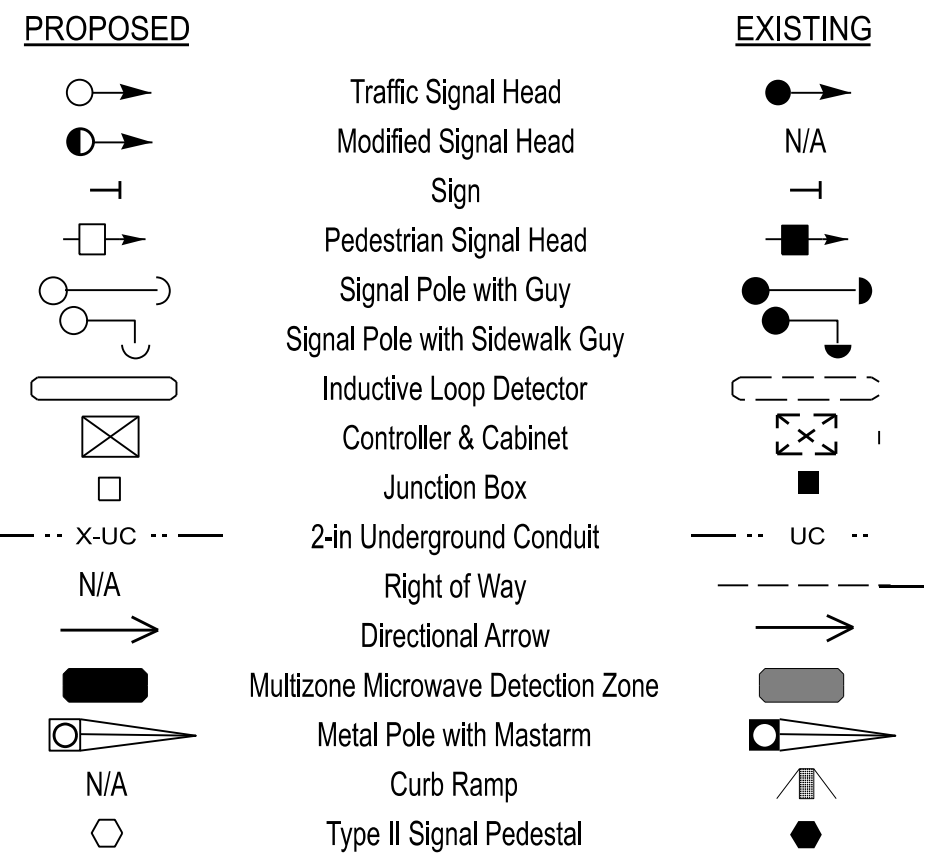
* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

5 Phase
Fully Actuated
US 158 (Croatan Hwy) South
D01-07_Kitty Hawk

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 and/or phase 5 may be lagged.
- Set all detector units to presence mode.
- 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.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND



New Installation

Prepared in the Offices of:

Transportation Mobility and Safety Division
SIGNAL DESIGN SECTION

750 N. Greenfield Pkwy, Garner, NC 27529

US 158
(South Croatan Highway)
at
East Lakeside St. / West Lakeside St.

Division 01 Dare County Nags Head

PLAN DATE: May 2026 REVIEWED BY: ZMH

PREPARED BY: KGP, Jr. REVIEWED BY:

REVISIONS

INIT. DATE

Signed by: *Zachary M. Little* 07/29/2026

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER
ZACHARY M. LITTLE
030530

SIG. INVENTORY NO. 01-0769