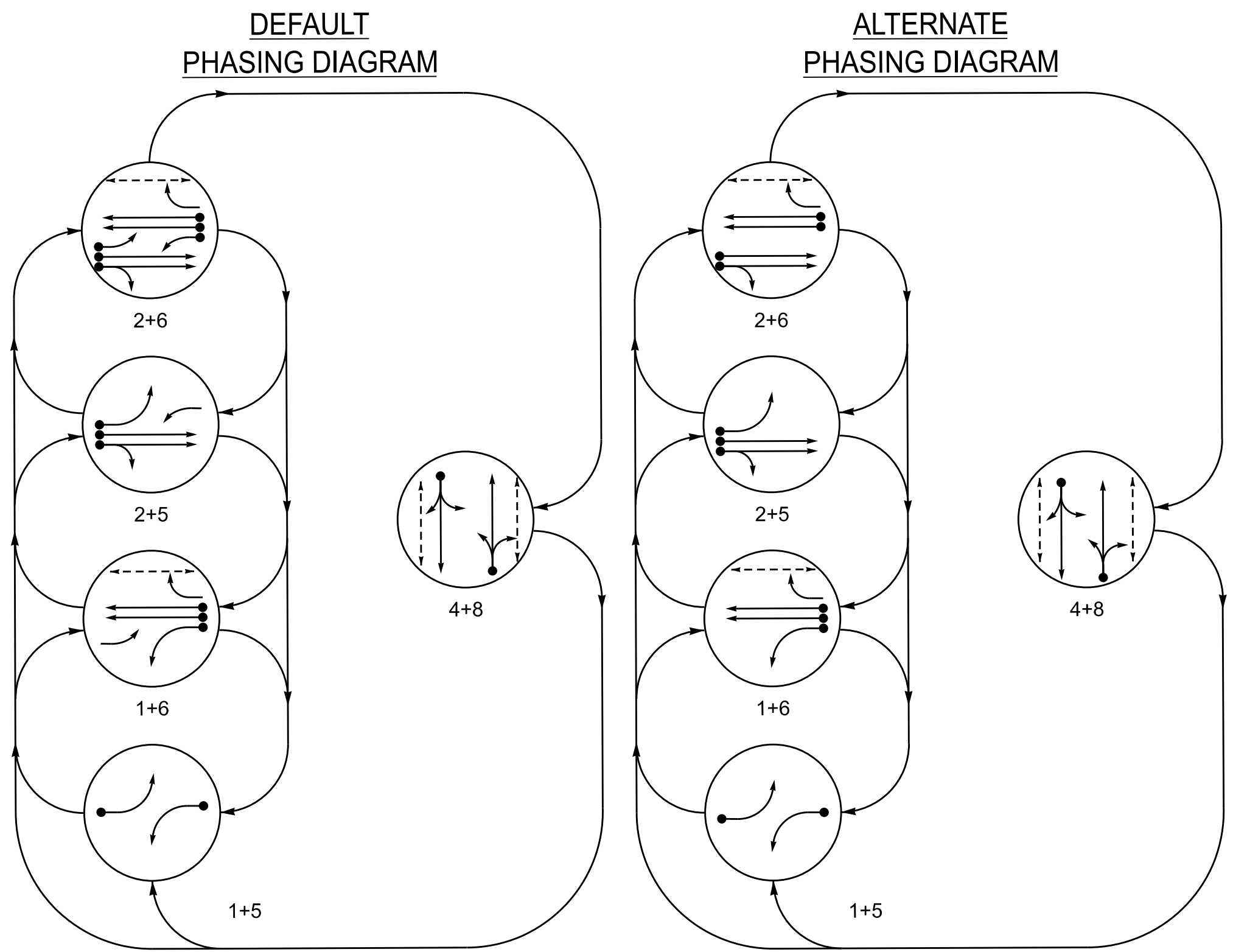


DEFAULT TABLE OF OPERATION

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	G	R
51	←	←	←	←	←
61,62	R	G	R	G	R
63	R	←	←	←	R
81,82	R	R	R	G	R
P41,P42	DW	DW	DW	DW	DRK
P61,P62	DW	W	DW	W	DRK
P81,P82	DW	DW	DW	DW	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	G	R
51	←	←	←	←	←
61,62	R	G	R	G	R
63	R	←	←	←	R
81,82	R	R	R	G	R
P41,P42	DW	DW	DW	DW	DRK
P61,P62	DW	W	DW	W	DRK
P81,P82	DW	DW	DW	DW	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	6X40	0	*	*	1	15**	-	X	-	X	-
					6#	-	-	X	-	X	-
2A	*	*	*	*	2	-	-	X	-	X	-
4A	6X40	0	*	*	4	5	-	X	-	X	-
5A	6X40	0	*	*	5	15**	-	X	-	X	-
					2#	-	-	X	-	X	-
6A	*	*	*	*	6	-	-	X	-	X	-
8A	6X40	0	*	*	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 Operations.

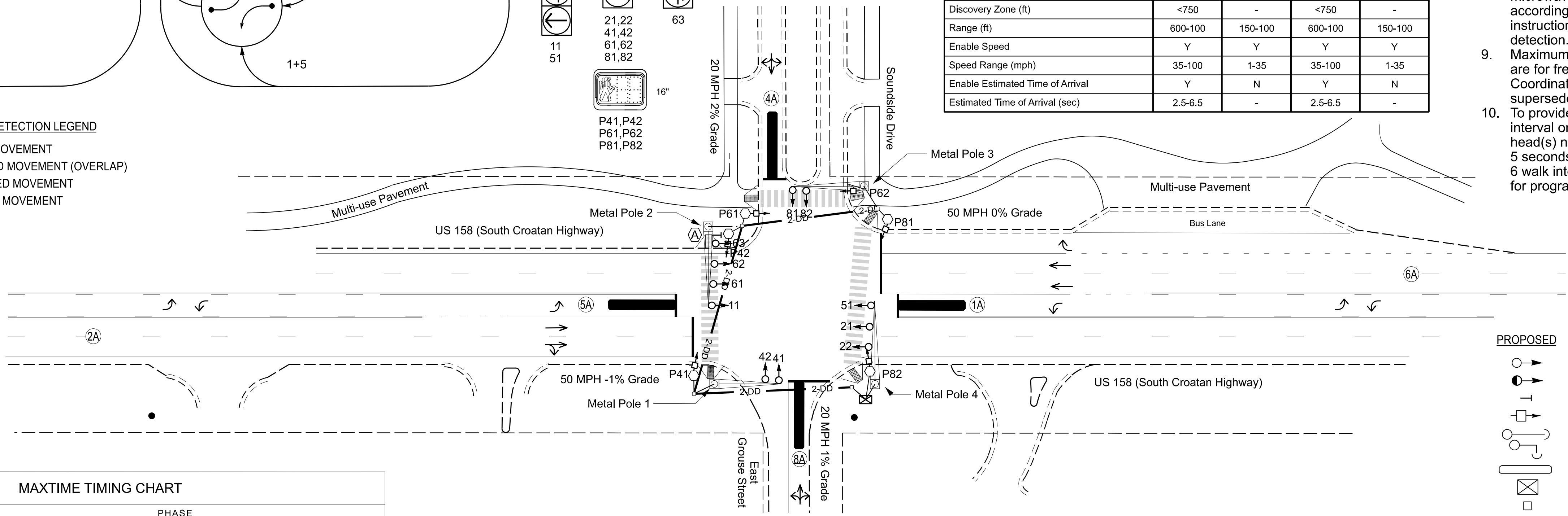
Microwave Detection System

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)	<750	<750
Range (ft)	600-100	150-100
Enable Speed	Y	Y
Speed Range (mph)	35-100	1-35
Enable Estimated Time of Arrival	Y	N
Estimated Time of Arrival (sec)	2.5-6.5	2.5-6.5

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

NOTES

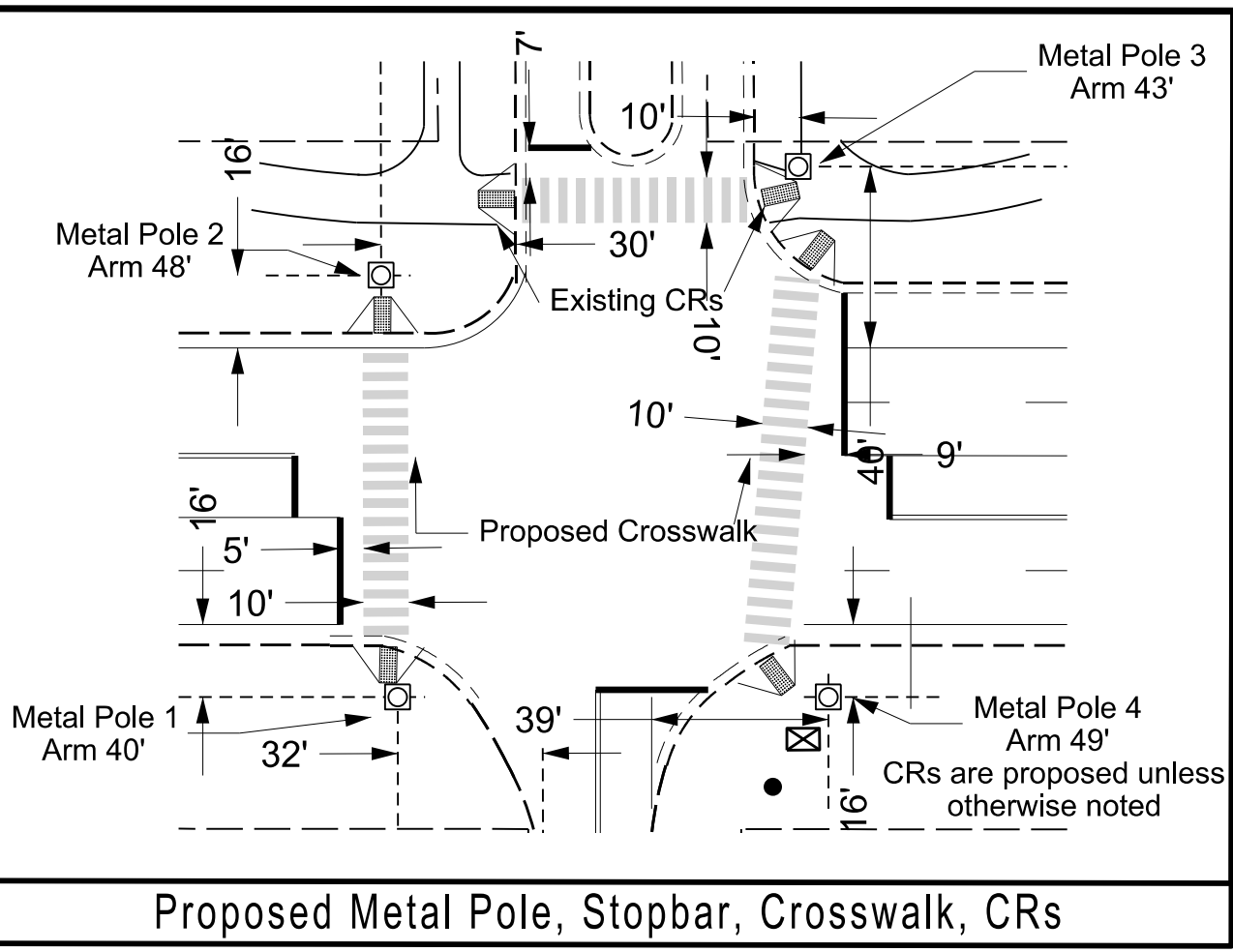
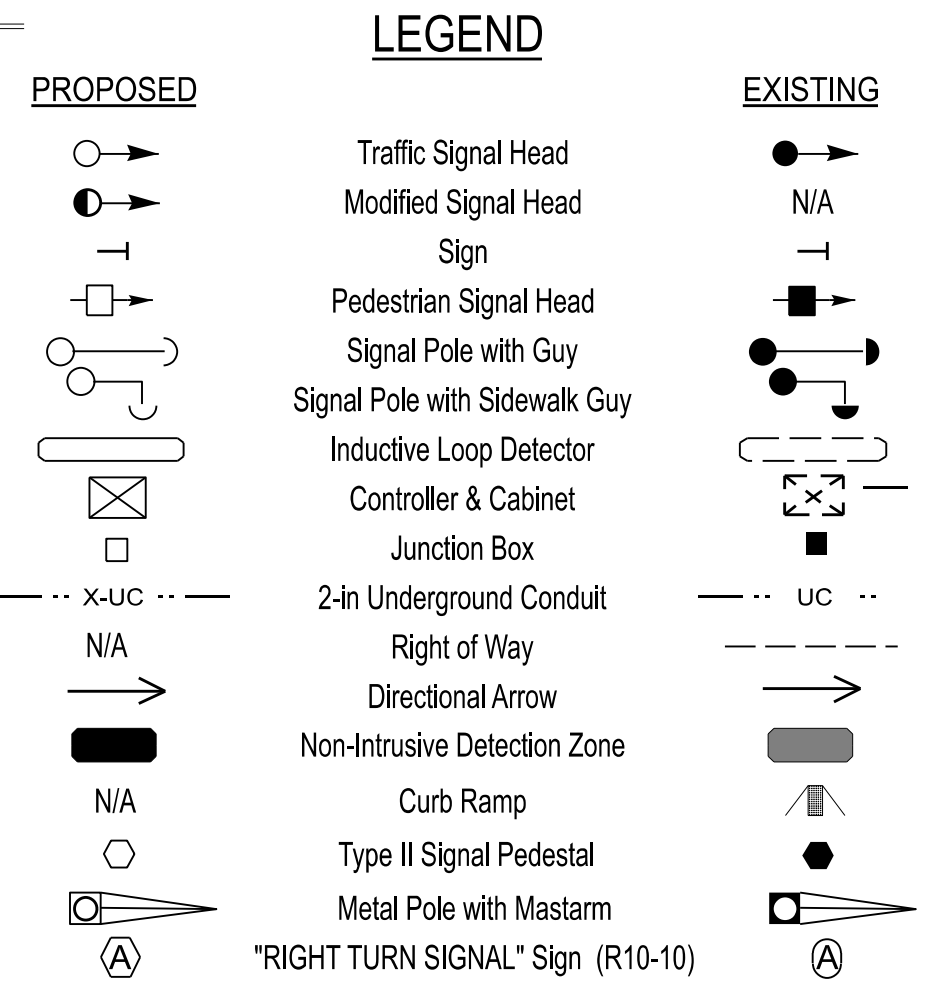
- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Set all detector units 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.
- 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.
- To provide a leading pedestrian interval on phase 6, program FYA head(s) numbered 51 and 63 to delay for 5 seconds after the start of the phase 6 walk interval. See Electrical Details for programming.



MAXTIME TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Walk *	-	-	11	-	12	12
Ped Clear	-	-	16	-	11	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	1.5	3.3	3.4	1.5	3.3
Added Initial *	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Advance Walk	-	-	4	-	**	5
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.
** See Note 10.



New Installation

Prepared in the Offices of:

Transportation Mobility and Safety Division
SIGNAL DIVISION
SIGNAL DESIGN SECTION

750 N. Greenfield Pkwy, Garner, NC 27529

US 158 (South Croatan Highway) at Grouse Street / Soundside Drive

Division 01 Dare County Nags Head

PLAN DATE: May 2026 PREPARED BY: ELC REVIEWED BY: KGP, Jr.

REVISIONS

SCALE 0 40

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030530

Signed by: *Carlynn Little* 07/31/2026

DATE

SIG. INVENTORY NO. 01-0768