

PHASING DIAGRAM

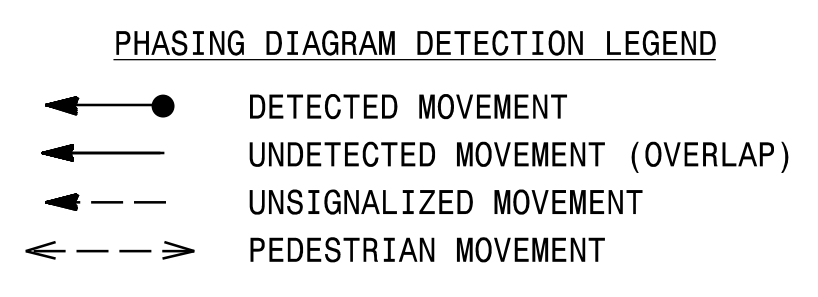
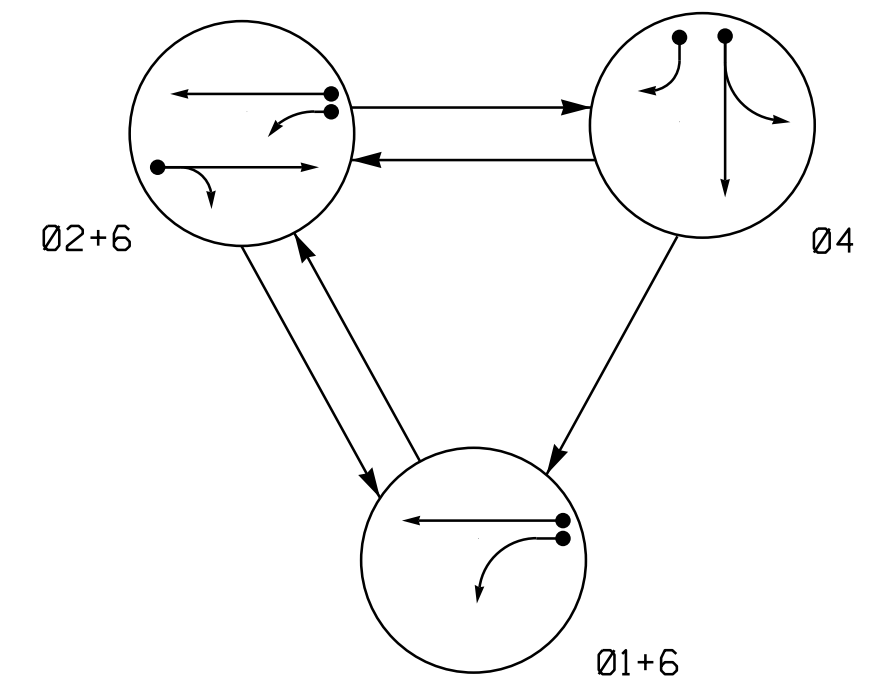
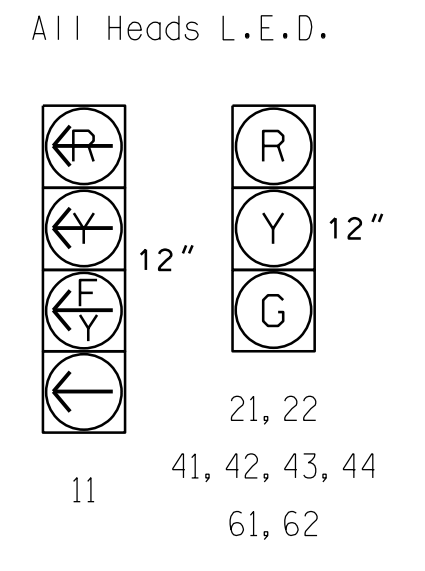


TABLE OF OPERATION

SIGNAL FACE	PHASE			
	01+6	02+6	04	LEGEND
11	←	←	←	Y
21, 22	R	G	R	Y
41, 42, 43, 44	R	R	G	R
61, 62	G	G	R	Y

SIGNAL FACE I.D.



ASC/3 DETECTOR INSTALLATION CHART

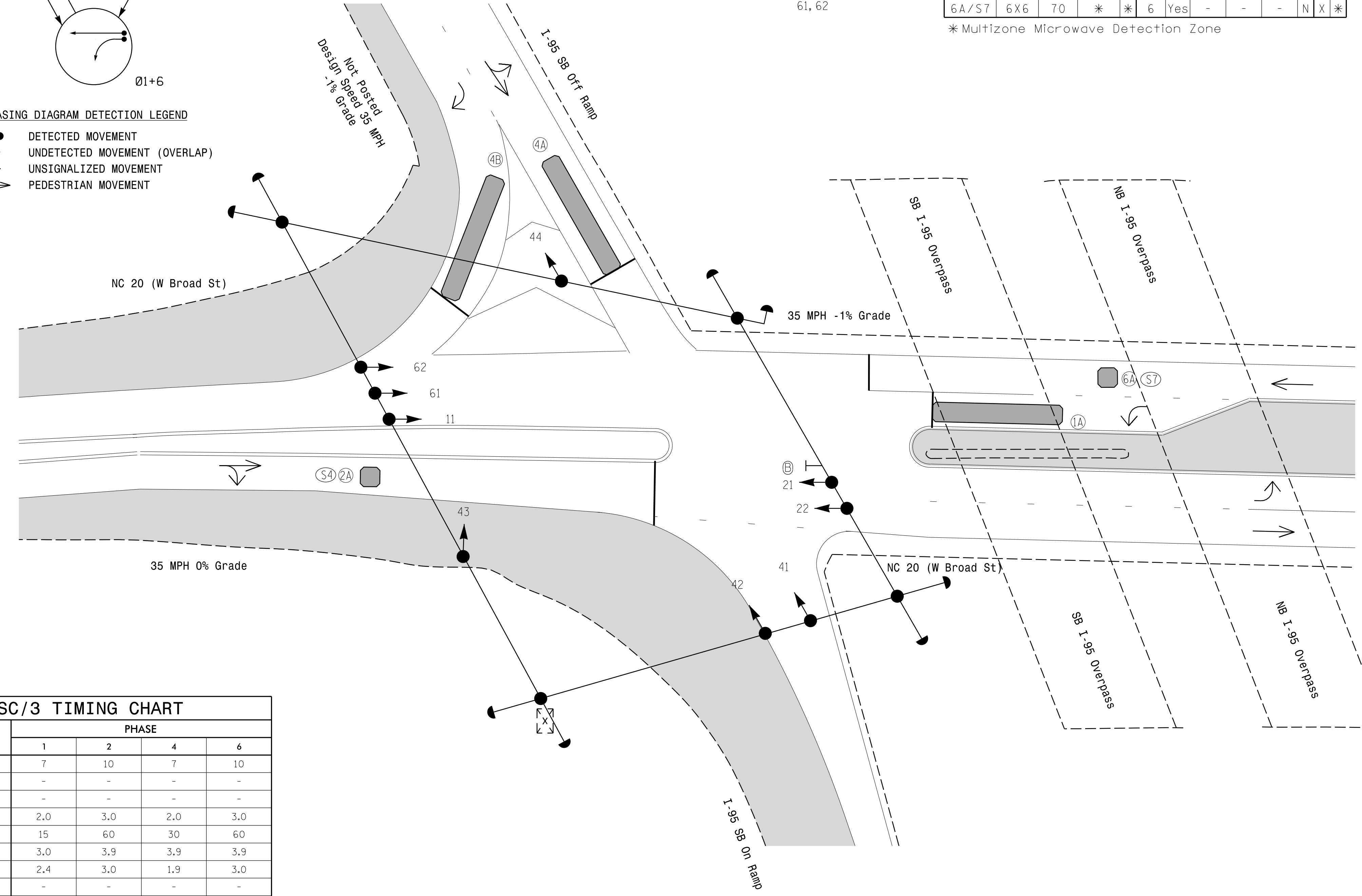
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW ZONE	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	*	*	1	Yes	-	15	-	N	-	*
2A/S4	6X6	70	*	*	2	Yes	-	-	-	N	X	*
4A	6X40	0	*	*	4	Yes	-	-	-	N	-	*
4B	6X40	0	*	*	4	Yes	-	15	-	N	-	*
6A/S7	6X6	70	*	*	6	Yes	-	-	-	N	X	*

* Multizone Microwave Detection Zone

**3 Phase Fully Actuated
06-21 St. Pauls**

NOTES

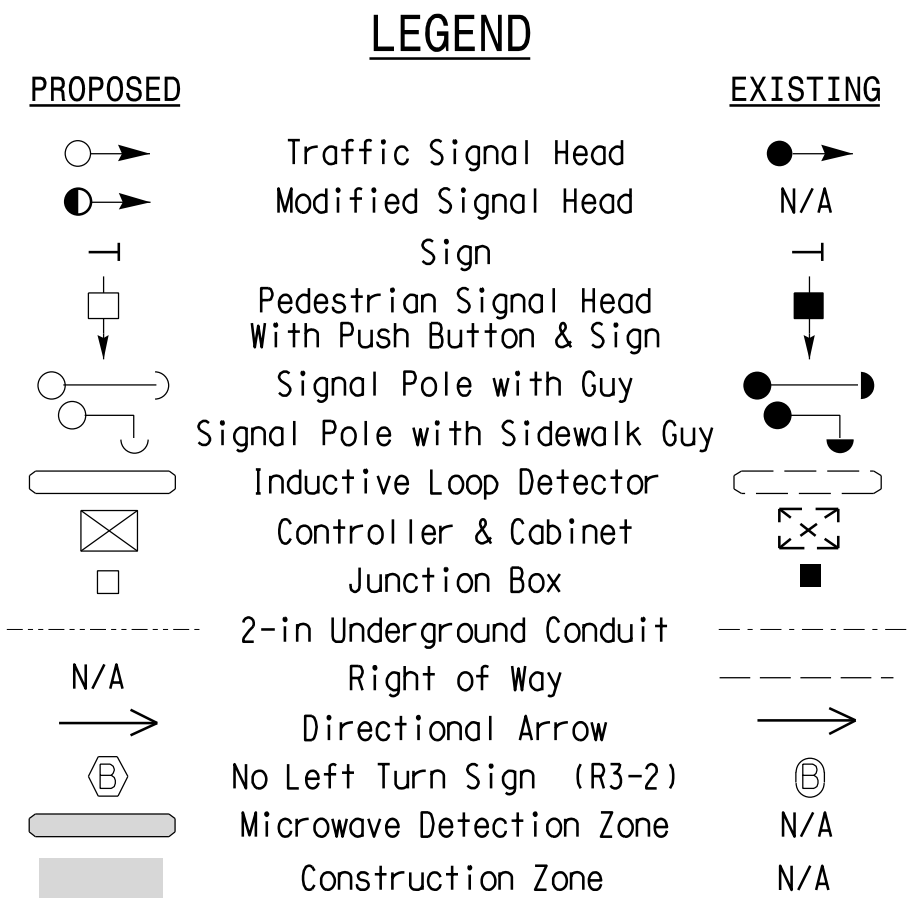
- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 may be lagged.
- Reposition existing signals heads numbered 21, 22, 41 and 42.
- Set all detector units to presence mode.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Closed loop system data: Controller Asset #1365.
- Contractor shall remove and relocate wireless radio/antenna, as required, in order to maintain CLS communication during construction.
- Reposition existing sign B.



ASC/3 TIMING CHART

FEATURE	PHASE			
	1	2	4	6
Min Green *	7	10	7	10
Walk *	-	-	-	-
Ped Clear	-	-	-	-
Veh. Extension *	2.0	3.0	2.0	3.0
Max 1 *	15	60	30	60
Yellow	3.0	3.9	3.9	3.9
Red Clear	2.4	3.0	1.9	3.0
Actuations B4 Add *	-	-	-	-
Seconds /Actuation *	-	-	-	-
Max Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Locking Detector	-	X	-	X
Recall Position	-	VEH. RECALL	-	VEH. RECALL
Dual Entry	-	-	-	-
Simultaneous Gap	X	X	X	X

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



**Signal Upgrade
Temporary Design 2 - (TMP Phase 2.1)**

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

 RKA RAMEY KEMP ASSOCIATES 8210 University Executive Park Drive Suite 220 Charlotte, North Carolina 28226 Phone: 704-668-4202 www.rkainc.com NC License No. C-2619	Prepared For: TRANSPORTATION MOBILITY AND SAFETY DIVISION DEPARTMENT OF TRANSPORTATION SIGNAL DESIGN SECTION	NC 20 (W. Broad St.) at I-95 SB Ramps Division 6 Robeson County St. Pauls PLAN DATE: February 2022 REVIEWED BY: WJ Hamilton PREPARED BY: TS Popelka RKA PROJ. NO.: 21031 (040)	SEAL WILLIAM J. HAMILTON ENGINEER DATE: 02/25/2022
	750 N. Greenfield Pkwy, Garner, NC 27529 SCALE: 0 20 1" = 20'	REVISIONS: _____ INITIALS: _____ DATE: _____ SIGNATURE: _____ DATE: _____ SIG. INVENTORY NO. 06-136512	