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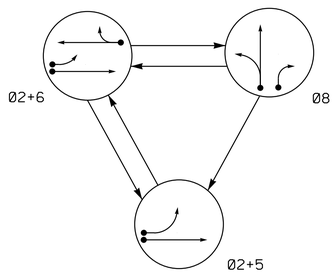
PROJECT REFERENCE NO.	SHEET NO.
I-5987B	Sig 8.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

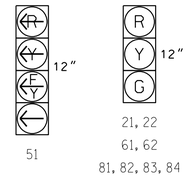
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 02+5	PHASE 02+6	PHASE 08	FLASH
21, 22	G	G	R	Y
51	← F Y	← F Y	← R	← Y
61, 62	R	G	R	Y
81, 82, 83, 84	R	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.



ASC/3 DETECTOR INSTALLATION CHART

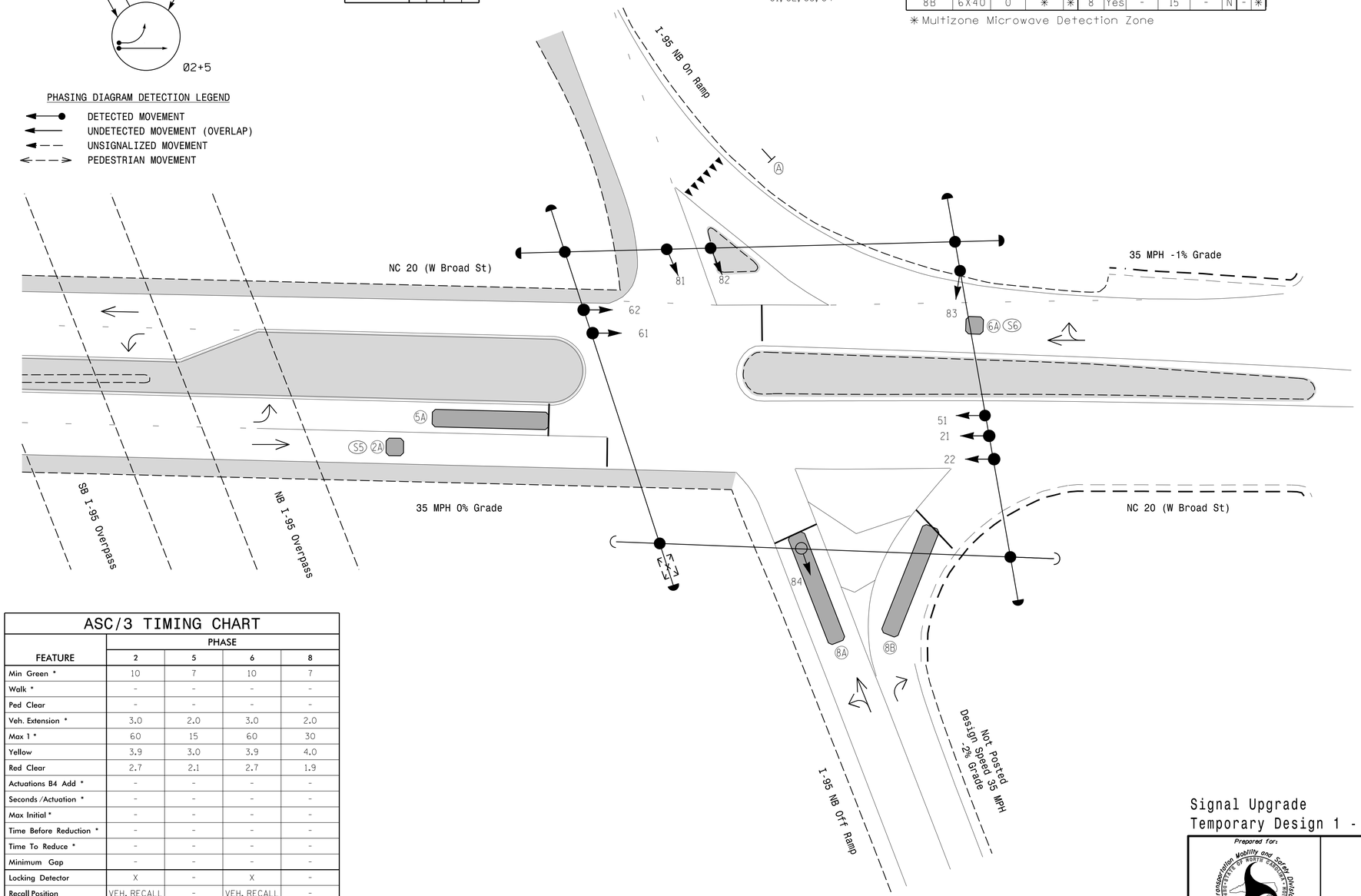
DETECTOR					PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW ZONE	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
2A/S5	6X6	70	*	*	2	Yes	-	-	-	N	X	*
5A	6X40	0	*	*	5	Yes	-	15	-	N	-	*
					2	Yes	-	-	-	N	-	*
6A/S6	6X6	70	*	*	6	Yes	-	-	-	N	X	*
8A	6X40	0	*	*	8	Yes	-	-	-	N	-	*
8B	6X40	0	*	*	8	Yes	-	15	-	N	-	*

* Multizone Microwave Detection Zone

3 Phase
Fully Actuated
D06-21 St. Pauls

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 5 may be lagged.
4. Reposition existing signal heads numbered 21, 22, 51, 81, 82, and 83.
5. Set all detector units to presence mode.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
7. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
8. Closed loop system data: Controller Asset #1366.
9. Contractor shall remove and relocate wireless radio/antenna, as required, in order to maintain CLS communication during construction.



ASC/3 TIMING CHART

FEATURE	PHASE 2	PHASE 5	PHASE 6	PHASE 8
Min Green *	10	7	10	7
Walk *	-	-	-	-
Ped Clear	-	-	-	-
Veh. Extension *	3.0	2.0	3.0	2.0
Max 1 *	60	15	60	30
Yellow	3.9	3.0	3.9	4.0
Red Clear	2.7	2.1	2.7	1.9
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.

LEGEND

PROPOSED		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	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	"YIELD" Sign (R1-2)	
	Microwave Detection Zone	N/A
	Construction Zone	N/A
	Shark's Teeth Yield Line	N/A

Signal Upgrade
Temporary Design 1 - (TMP Phase I)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for: Transportation Mobility and Safety Division, Signal Design Section, Bureau of Transportation, State of North Carolina

750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 20 1"=20'

NC 20 (W. Broad St.)
at
I-95 NB Ramps

Division 6 Robeson County St. Pauls

PLAN DATE:	February 2022	REVIEWED BY:	WJ Hamilton
PREPARED BY:	TS Popelka	RKA PROJ. NO.:	21273 (040)

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

DocuSigned by: William J. Hamilton
SIGNATURE 02/25/2022 DATE

SIG. INVENTORY NO. 06-1366TI

RKA
RAMEY KEMP ASSOCIATES
8210 University Executive Park Drive Suite 220 Charlotte, North Carolina 28262
Phone: 704-549-6200 | www.rameykemp.com | NC License No. C-0910

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