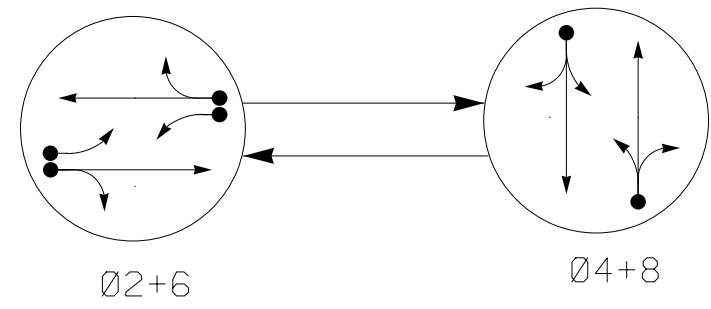


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

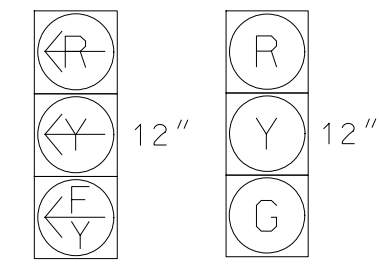
- DETECTED MOVEMENT
- ◄ UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ⇄ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø2+6	Ø4+8	FLIGHTS
21	F	R	Y
22, 23	G	R	Y
41, 42	R	G	R
61	F	R	Y
62, 63	G	R	Y
81, 82	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.



21 22, 23
61 41, 42
62, 63
81, 82

DETECTOR INSTALLATION CHART

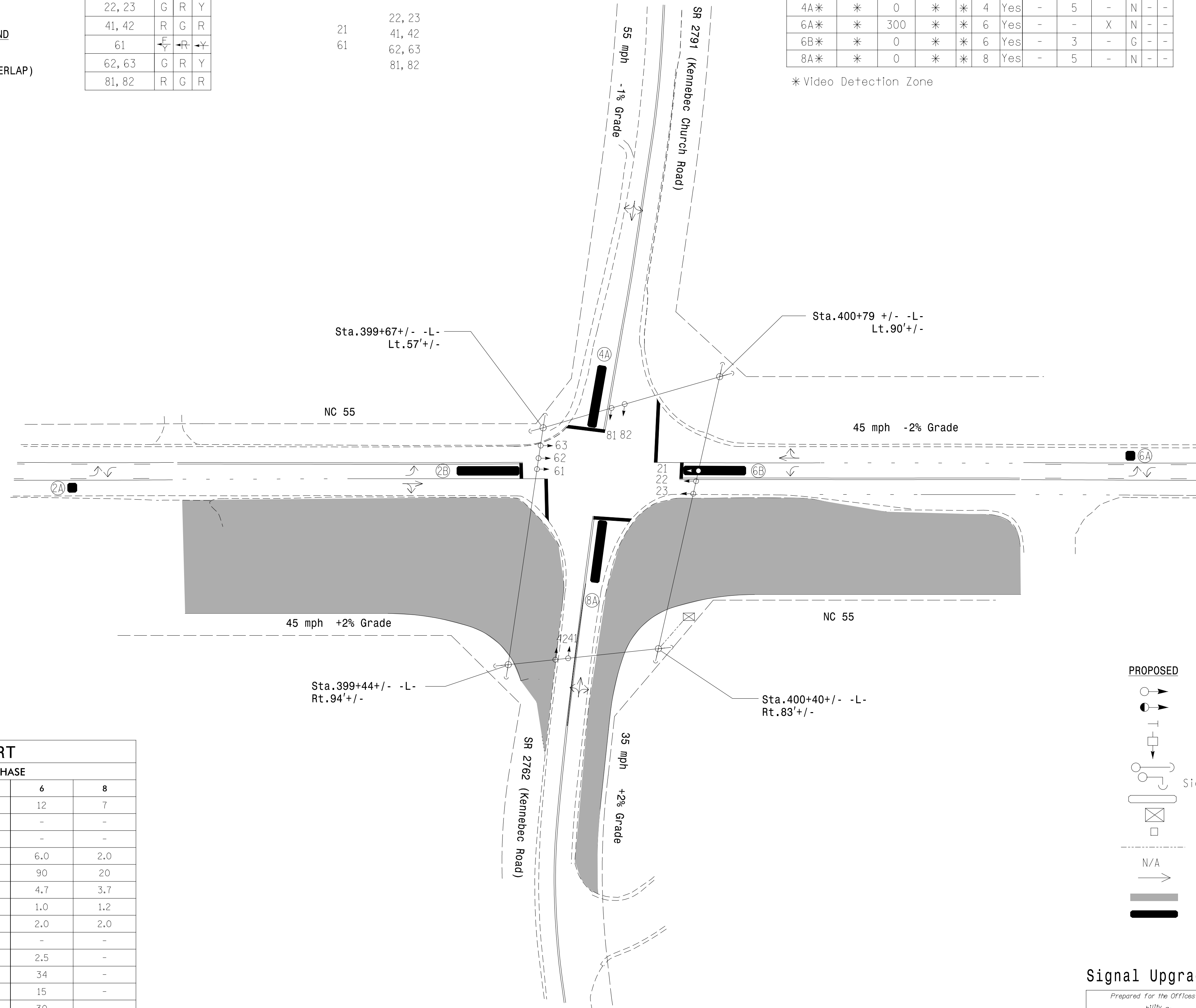
ZONE	SIZE (FT)	DETECTOR			PROGRAMMING							
		DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	LOOP SYSTEM	NEW CARD
2A*	*	300	*	*	2	Yes	-	-	X	N	-	-
2B*	*	0	*	*	2	Yes	-	3	-	G	-	-
4A*	*	0	*	*	4	Yes	-	5	-	N	-	-
6A*	*	300	*	*	6	Yes	-	-	X	N	-	-
6B*	*	0	*	*	6	Yes	-	3	-	G	-	-
8A*	*	0	*	*	8	Yes	-	5	-	N	-	-

*Video Detection Zone

2 Phase Fully Actuated Isolated

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.
- Set all detector units to presence mode.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.



FEATURE	PHASE			
	2	4	6	8
Min Green *	12	7	12	7
Walk *	-	-	-	-
Ped Clear	-	-	-	-
Veh. Extension *	6.0	2.0	6.0	2.0
Max 1 *	90	20	90	20
Yellow	4.3	5.3	4.7	3.7
Red Clear	1.0	1.0	1.0	1.2
Red Revert	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-
Seconds / Actuation *	2.5	-	2.5	-
Max Initial *	34	-	34	-
Time Before Reduction *	15	-	15	-
Time To Reduce *	30	-	30	-
Minimum Gap	3.0	-	3.0	-
Locking Detector	-	-	-	-
Recall Position	VEH RECALL	-	VEH RECALL	-
Dual Entry	-	X	-	X
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 |
|----------|----------|
| | |
| | N/A |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | N/A |
| | N/A |

Signal Upgrade-Temporary Design 1 (TMP Phase I)

	<p>NC 55 at SR 2791 (Kennebec Church Road) and SR 2762 (Kennebec Road)</p>		
	<p>Division 5 Wake County Fuquay-Varina</p>	<p>PLANNING SECTION</p>	
<p>750 N. Greenfield Pkwy, Garner, NC 27529</p>	<p>PREPARED BY: J. Ma</p>	<p>REVIEWED BY: M. L. Stygles</p>	<p>DATE: 7/12/2022</p>
<p>SCALE: 1" = 40'</p>	<p>REVISIONS</p>	<p>INIT.</p>	<p>DATE</p>
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			<p>SIG. INVENTORY NO. 05-1698T1</p>

