

PHASING DIAGRAM DETECTION LEGEND





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

TABLE OF OPERATION				
SIGNAL FACE	PHASE			
	2 + 6	3	4	FLASH
21,22,23	G	R	R	R
24	G	R	\overline{G}	R
25	G	R	G	R
31	R	\overline{R}	R	R
32	R	\overline{R}	R	R
41	R	R	\overline{R}	R
42	R	R	\overline{R}	R
61,62	G	R	R	R
63	G	\overline{G}	R	R
64	G	G	R	R

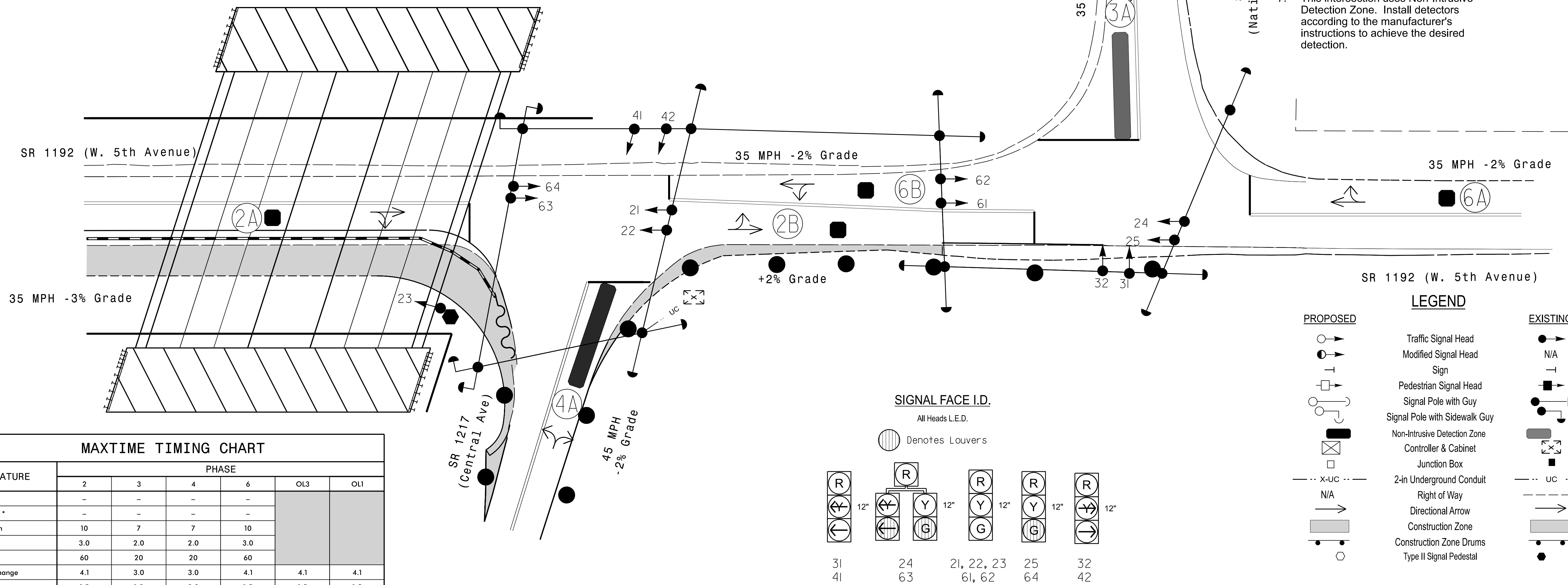
MAXTIME DETECTOR INSTALLATION CHART												
DETECTOR					PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2A	6X6	70	*	*	2	-	-	X	-	X	-	*
2B	6X6	70	*	*	2	-	-	X	-	X	-	*
3A	6X40	0	*	*	3	5.0	-	X	-	X	-	*
4A	6X40	0	*	*	4	5.0	-	X	-	X	-	*
6A	6X6	70	*	*	6	-	-	X	-	X	-	*
6B	6X6	70	*	*	6	-	-	X	-	X	-	*

* Non-Intrusive Detection Zone

3 Phase
Fully Actuated
(Isolated)

NOTES




1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. The order of phase 3 and phase 4 may be reversed.
4. Reposition existing signal heads numbered 21, and 22.
5. Signal heads numbered 24, 25, 63 and 64 are tethered.
6. Set all detector units to presence mode.
7. This intersection uses Non-Intrusive Detection Zone. Install detectors according to the manufacturer's instructions to achieve the desired detection.



MAXTIME TIMING CHART							
FEATURE	PHASE					OL3	OLI
	2	3	4	6			
Walk *	–	–	–	–			
Ped Clear *	–	–	–	–			
Min Green	10	7	7	10			
Passage *	3.0	2.0	2.0	3.0			
Max 1 *	60	20	20	60			
Yellow Change	4.1	3.0	3.0	4.1	4.1	4.1	
Red Clear	1.5	1.8	2.3	1.5	1.5	1.5	
Added Initial *	–	–	–	–			
Maximum Initial *	–	–	–	–			
Time Before Reduction *	–	–	–	–			
Time To Reduce *	–	–	–	–			
Minimum Gap	–	–	–	–			
Advance Walk	–	–	–	–			
Non Lock Detector	–	X	X	–			
Vehicle Recall	MIN RECALL	–	–	MIN RECALL			
Dual Entry	–	–	–	–			

* 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)

Prepared in the Offices of:  NORTH CAROLINA DEPARTMENT OF TRANSPORTATION Signal Design Section	SR 1192 (5th Avenue) at SR 1277 (Central Avenue) and SR 1291 (National Blvd.)	SEAL  NORTH CAROLINA PROFESSIONAL SEAL 026486 ENGINEER ROBERT ZIEMBA
Division 9 Davidson County In Lexington		
PLAN DATE: February 2025		REVIEWED BY:
PREPARED BY: I. O. Umzurike		REVIEWED BY:
REVISIONS INIT. DATE		
Empty row for revisions		
SCALE  0 20 1" = 20'		
Drawn by: <i>Robert Ziemba</i> 03/04/2025 101054062744495 DATE:		
SIG. INVENTORY NO. 09-099572		