PROJECT REFERENCE NO.	SHEET NO.
R-2577A	Sig. 34.0

4 Phase Fully Actuated (Isolated)

PHASING DIAGRAM

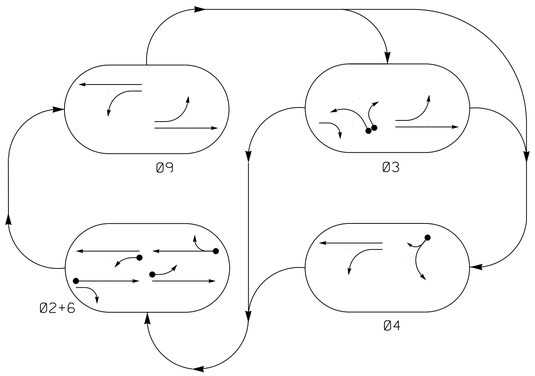


TABLE OF OPERATION

SIGNAL FACE	PHASE 02+6	PHASE 09	PHASE 03	PHASE 04	PHASE FLASH
11	F Y	←	~~R~~	←	~~Y~~
21	G	R	R	R	Y
22	G	R	R	R	Y
23, 24	G	G	G	R	Y
31	R	R	←	R	R
32	R	R	→	R	R
41	R	R	R	←	R
42	R	R	R	→	R
51	F Y	←	~~R~~	~~Y~~	
61, 62	G	R	R	R	Y
63, 64	G	G	R	G	Y

MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	ADDITIONAL CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL DELAY DURING GREEN	NEW CARD
2A ✳	6X6	300	✳	✳	2	-	-	-	X	X	X	-	✳
2B ✳	6X40	0	✳	✳	2	-	-	-	X	-	X	-	✳
3A ✳	6X40	0	✳	✳	9	3	10	-	X	-	X	-	✳
3B ✳	6X40	0	✳	✳	9	3	15	-	X	-	X	-	✳
3C ✳	6X6	0	✳	✳	9	3	15	-	X	-	X	-	✳
4A ✳	6X40	0	✳	✳	9	4	10	-	X	-	X	-	✳
6A ✳	6X6	300	✳	✳	6	-	-	-	X	X	X	-	✳
6B ✳	6X40	0	✳	✳	6	-	-	-	X	-	X	-	✳

✳ Video Detection Zone

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 unless otherwise directed by the Engineer.
3. Program controller to clear from phase 2+6 to phase 3 or phase 4 by progressing through phase 9 (see Electrical Details).
4. The order of phase 3 and phase 4 may be reversed.
5. Tether signal heads numbered 11, 23, 24, 51, 63, and 64.
6. Set all detector units to presence mode.
7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
8. Pavement markings are existing.
9. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.

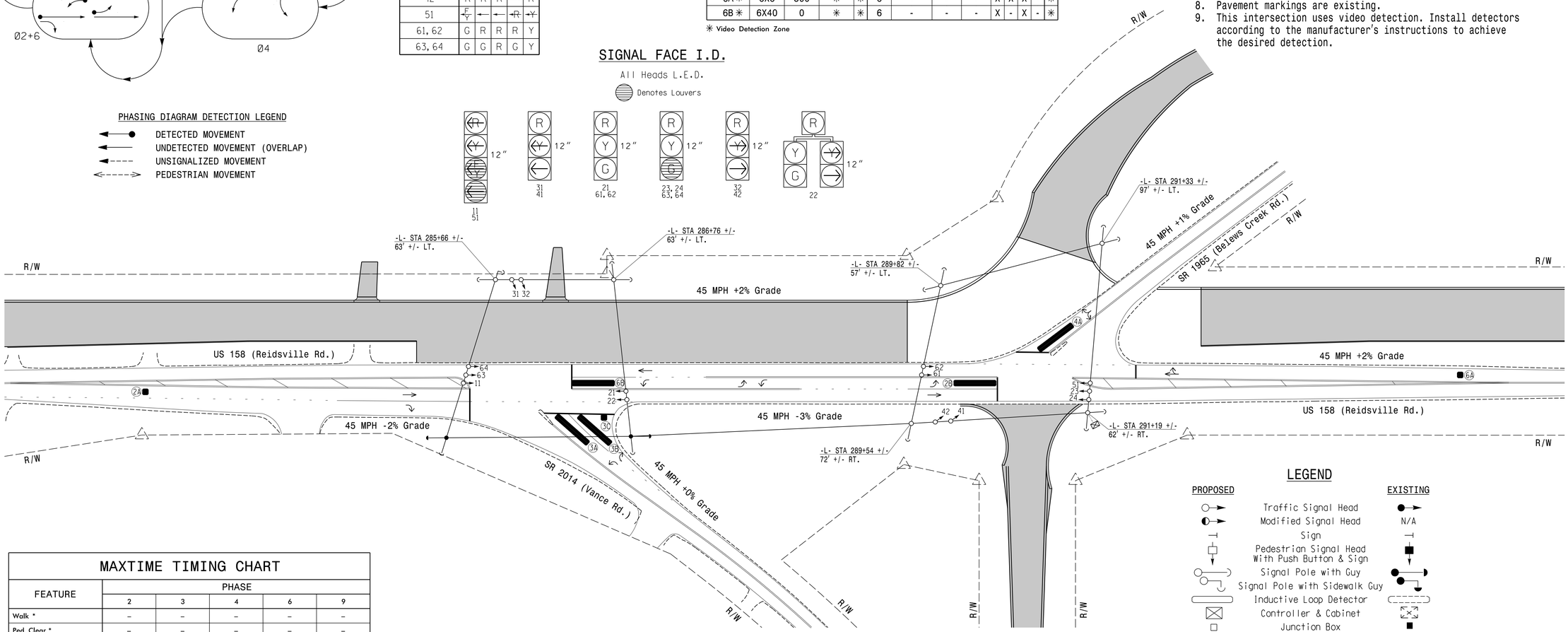
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.

Denotes Louvers



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	
	Construction Zone	
	Video Detection Zone	

MAXTIME TIMING CHART

FEATURE	PHASE 2	PHASE 3	PHASE 4	PHASE 6	PHASE 9
Walk *	–	–	–	–	–
Ped Clear *	–	–	–	–	–
Min Green	12	7	7	12	11
Passage *	6.0	2.0	2.0	6.0	2.0
Max 1 *	90	30	30	90	11
Yellow Change	4.7	4.8	4.3	4.7	4.8
Red Clear	2.2	3.3	1.9	2.2	1.6
Added Initial *	2.5	–	–	2.5	–
Maximum Initial *	34	–	–	34	–
Time Before Reduction *	15	–	–	15	–
Time To Reduce *	30	–	–	30	–
Minimum Gap	3.0	–	–	3.0	–
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 1 (TMP Phase I Step 1)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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Prepared for the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 50 1" = 50'

US 158 (Reidsville Rd.) at SR 2014 (Vance Rd.) / SR 1965 (Belews Creek Rd.)

Division 9 Forsyth County Walkertown

PLAN DATE: February 2024 REVIEWED BY: WP Erickson-Jones
PREPARED BY: H Townsend REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 056142 ENGINEER W. PORTER JONES

DocuSigned by: Porter Jones 2/12/2024
SIGNATURE DATE

SIG. INVENTORY NO. 09-1100TI

2/12/2024
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wpjones