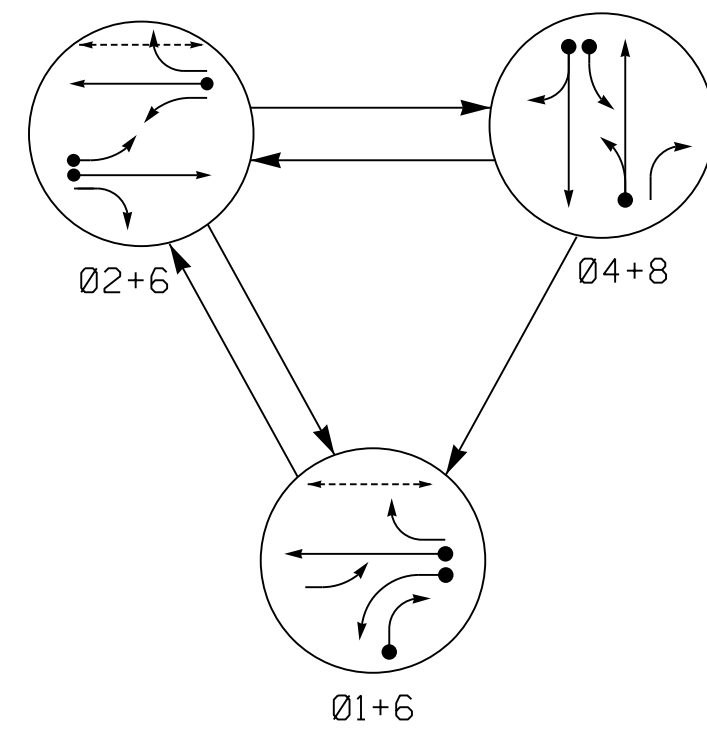


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

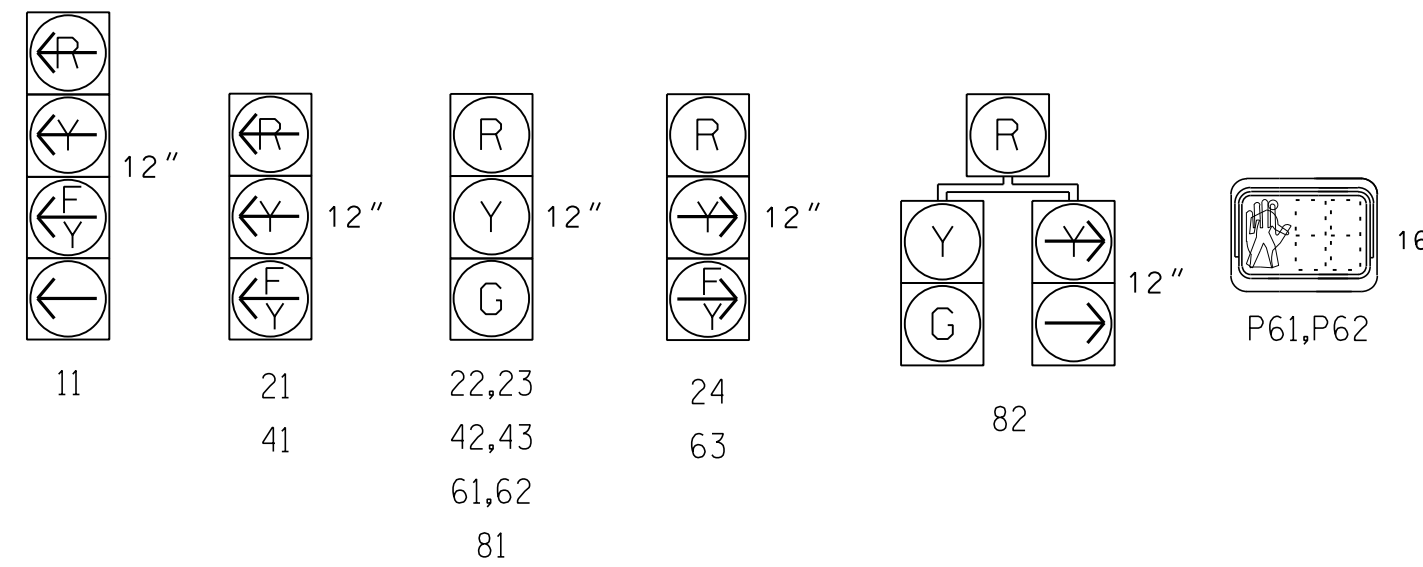
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE			
	01+6	02+6	04+8	FLSH
11	←	←	←	←
21	←	←	←	←
22,23	R	G	R	R
24	R	←	←	←
41	←	←	←	←
42,43	R	R	G	R
61,62	G	G	R	R
63	←	←	←	←
81	R	R	G	R
82	R	R	G	R
P61,P62	W	W	DW	DRK

W - Walk
 DW - Don't Walk
 DRK - Dark

SIGNAL FACE I.D.

All Heads L.E.D.



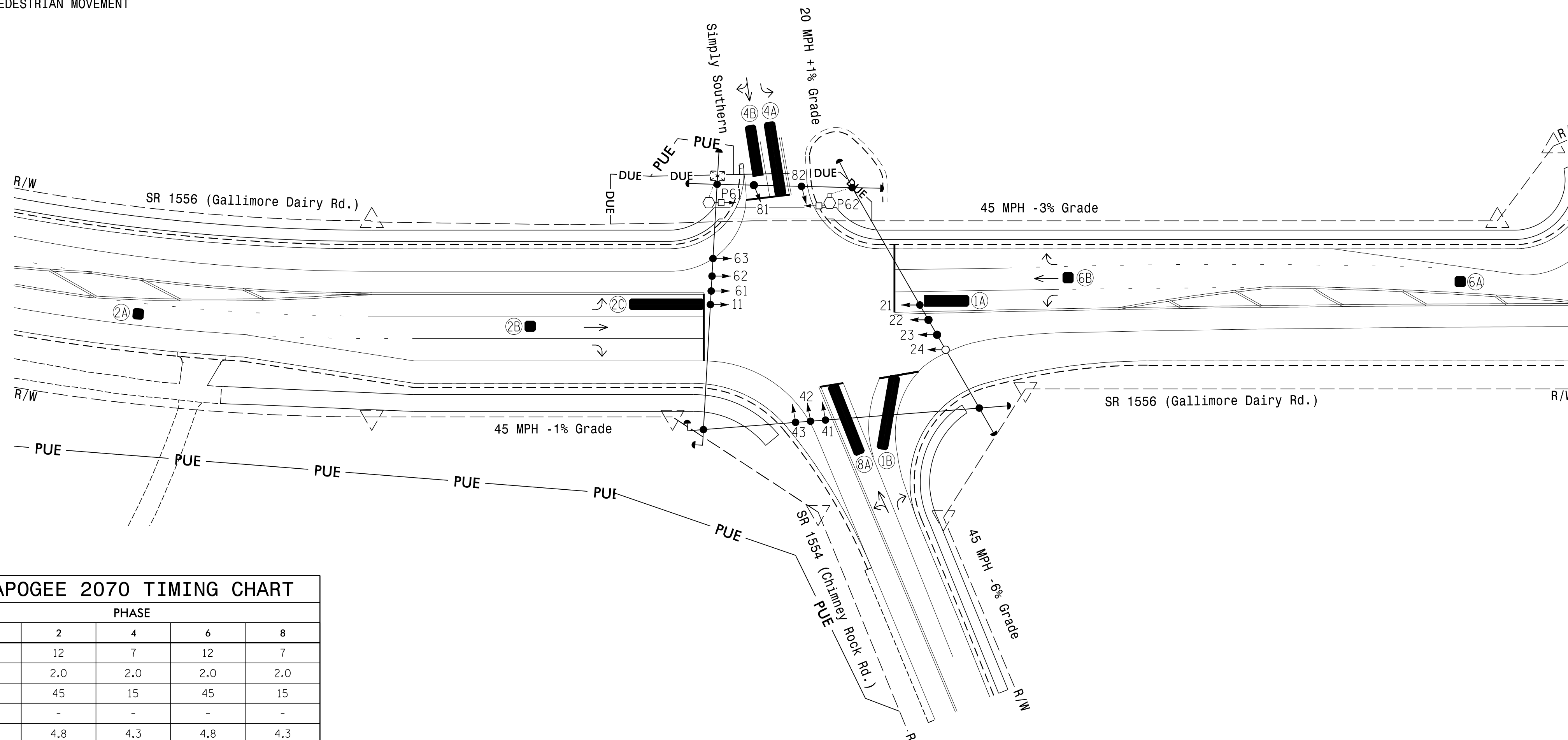
LOOP & DETECTOR UNIT INSTALLATION CHART													
TRAFFICWARE APOGEE SOFTWARE 2070 CONTROLLER													
INDUCTIVE LOOPS						DETECTOR PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	SWITCH (PHASE)	DELAY TIME	STRETCH TIME	CALLING	EXTENSION	ADDED INIT.	SYSTEM LOOP	NEW CARD
1A*	6X40	0	*	-	1	-	15	-	X	X	-	-	-
1B*	6X40	0	*	-	1	-	15	-	X	X	-	-	-
2A*	6X6	300	*	-	2	-	-	1.6	X	X	-	-	-
2B*	6X6	90	*	*	2	-	-	-	X	X	-	-	*
2C*	6X40	0	*	*	2	-	-	-	X	X	-	-	*
4A*	6X40	0	*	-	4	-	3	-	X	X	-	-	-
4B*	6X40	0	*	-	4	-	10	-	X	X	-	-	-
6A*	6X6	90	*	-	6	-	-	1.6	X	X	-	-	-
6B*	6X6	300	*	-	6	-	-	-	X	X	-	-	-
8A*	6X40	0	*	-	8	-	3	-	X	X	-	-	-

* VIDEO DETECTION

3 Phase Fully Actuated (Greensboro Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specification for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 may be lagged.
- Reposition existing signal heads #21, 22, and 23.
- 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. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



TRAFFICWARE APOGEE 2070 TIMING CHART

FEATURE	PHASE				
	1	2	4	6	8
Min Green *	7	12	7	12	7
Gap, Extension *	2.0	2.0	2.0	2.0	2.0
Maximum Green 1 *	15	45	15	45	15
Maximum Green 2 *	-	-	-	-	-
Yellow Clear	3.0	4.8	4.3	4.8	4.3
Red Clear	2.1	1.8	3.2	1.8	3.2
Walk *	-	-	-	14	-
Pedestrian Clear	-	-	-	10	-
GreenPed Delay	-	-	-	7	-
Added Initial *	-	-	-	-	-
Maximum Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	MIN RECALL	-
Lock Calls	-	YES	-	YES	-
Dual Entry	-	-	ON	-	ON
Simultaneous Gap	ON	ON	ON	ON	ON

* 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	● N/A
○ Modified Signal Head	○ N/A
○ Sign	○ N/A
○ Pedestrian Signal Head With Push Button & Sign	○ N/A
○ Signal Pole with Guy	○ N/A
○ Signal Pole with Sidewalk Guy	○ N/A
○ Inductive Loop Detector	○ N/A
○ Controller & Cabinet	○ N/A
○ Junction Box	○ N/A
○ 2-in Underground Conduit	○ N/A
○ Right of Way	○ N/A
○ Directional Arrow	○ N/A
○ Type II Signal Pedestal	○ N/A
○ Non-Intrusive Detection Zone	○ N/A
○ Pedestrian Barricade	○ N/A
○ DUE - Dual Utility Easement	○ DUE -
○ PUE - Permanent Utility Easement	○ PUE -

Signal Upgrade-Temporary Design 4 (TMP Phase III)

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Prepared For the Offices of:
 TRANSPORTATION MOBILITY AND SAFETY DIVISION
 DEPARTMENT OF TRANSPORTATION
 STATE OF NORTH CAROLINA
 Signal Design Section

SR 1556 (Gallimore Dairy Rd.)
 at
 SR 1554 (Chimney Rock Rd.) /
 Simply Southern
 Division 7 Guilford County Greensboro
 PLAN DATE: August 2024 REVIEWED BY: WP Erickson-Jones
 PREPARED BY: A.C. Norman REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 056142
 W. PORTER JONES
 PORTER JONES
 8/22/2024
 DATE
 SIGNATURE
 SIG. INVENTORY NO. 07-1689T4