PROJECT REFERENCE NO.	SHEET NO.
U-4015A	Sig. 7.0

PHASING DIAGRAM

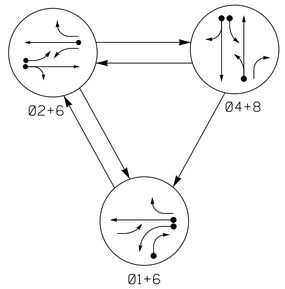
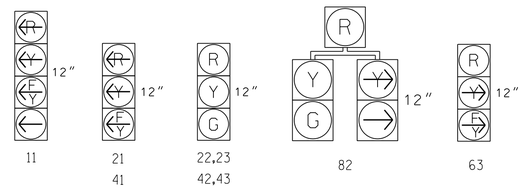


TABLE OF OPERATION

SIGNAL FACE	PHASE 01+6	PHASE 02+6	PHASE 04+8	FLASH
11	←	F Y	R	R
21	F Y	F Y	R	R
22,23	R	G	R	R
41	R	R	F Y	R
42,43	R	R	G	R
61,62	G	G	R	R
63	F Y	F Y	R	R
81	R	R	G	R
82	R →	R	G	R

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	300	✳	-	6	-	-	1.6	X	X	-	-	-
6B✳	6X6	90	✳	-	6	-	-	-	X	X	-	-	-
8A✳	6X40	0	✳	✳	8	-	3	-	X	X	-	-	✳

✳ VIDEO DETECTION

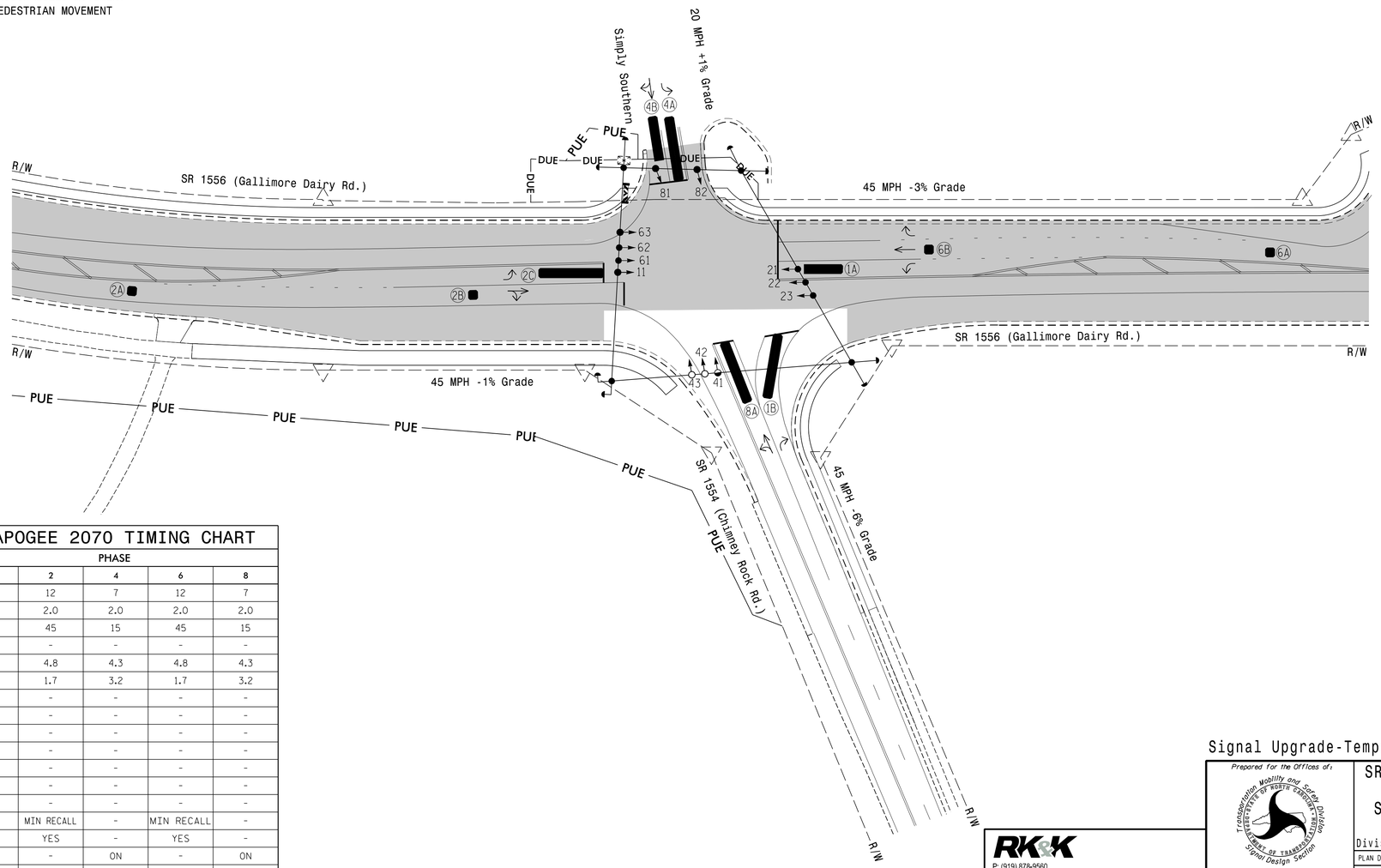
3 Phase
Fully Actuated
(Greensboro Signal System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specification for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Reconnect and uncover existing signal heads 11, 81, and 82.
4. Modify existing signal head 41.
5. Phase 1 may be lagged.
6. Set all detector units to presence mode.
7. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND

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



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	
	Non-Intrusive Detection Zone	
	Construction Zone	
	Pedestrian Barricade	
—DUE—	Dual Utility Easement	—DUE—
- PUE -	Permanent Utility Easement	- PUE -

TRAFFICWARE APOGEE 2070 TIMING CHART

FEATURE	PHASE 1	PHASE 2	PHASE 4	PHASE 6	PHASE 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	1.7	3.2	1.7	3.2
Walk *	-	-	-	-	-
Pedestrian Clear	-	-	-	-	-
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.

8/22/2024
R:\Traffic\Signals\Design\Signals\U4015a_SIG_07-168973.dgn
wpjones

Signal Upgrade-Temporary Design 3 (TMP Phase II)

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

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:

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 056142 ENGINEER PORTER JONES

DocuSigned by:
Porter Jones 8/22/2024
DESIGN ENGINEER SIGNATURE DATE

SIG. INVENTORY NO. 07-168973