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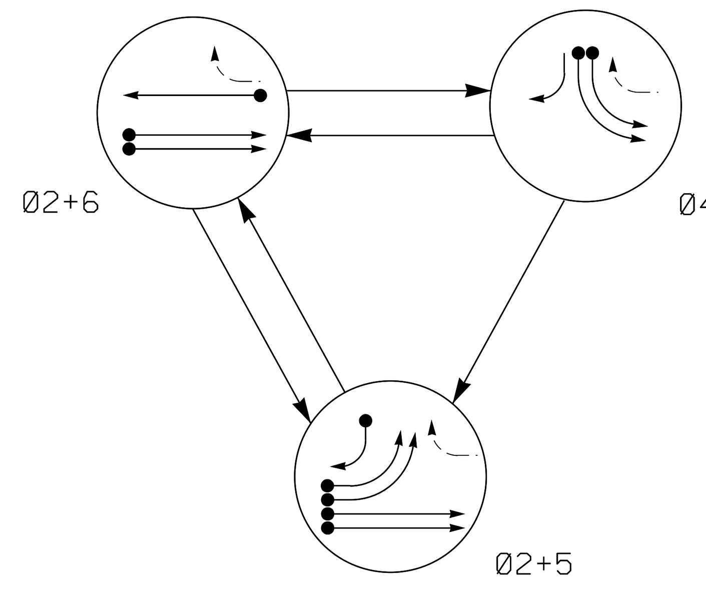
PROJECT REFERENCE NO.	SHEET NO.
U-2412A	Sig. 11.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

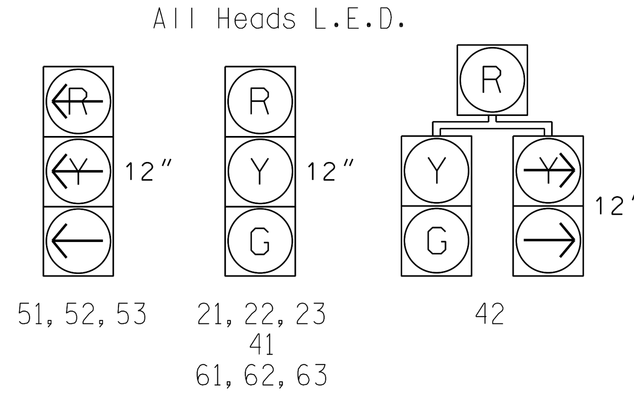
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+5	Ø2+6	Ø4	FLASH
21, 22, 23	G	G	R	Y
41	R	R	G	R
42	R/→	R	G	R
51, 52, 53	←	←R	←R	←R
61, 62, 63	R	G	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.



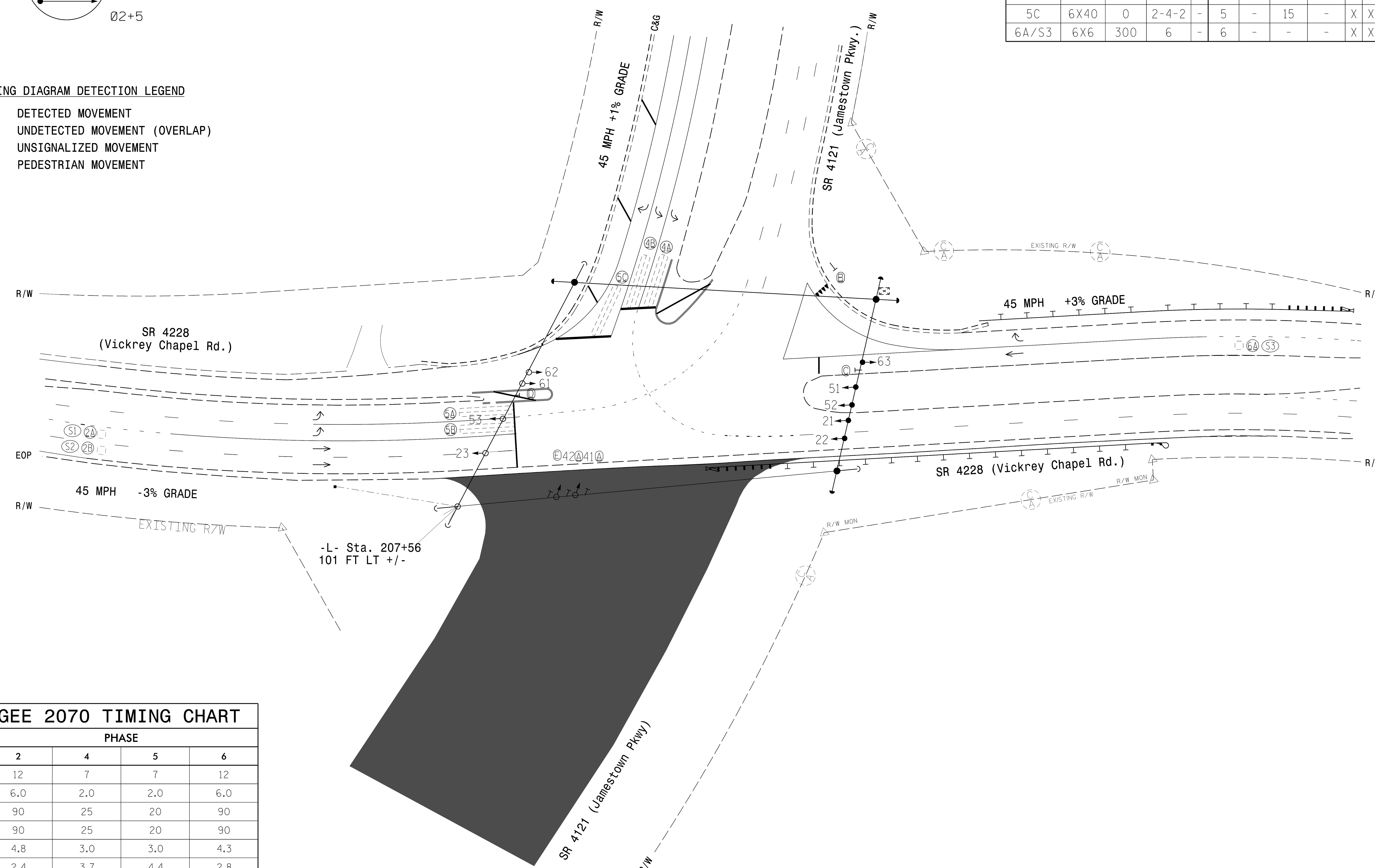
LOOP & DETECTOR UNIT INSTALLATION CHART
NAZTEC APOGEE SOFTWARE 2070 CONTROLLER

INDUCTIVE LOOPS					DETECTOR PROGRAMMING								
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	SWITCH (PHASE)	DELAY TIME	STRETCH TIME	CALLING	EXTENSION	ADDED INIT.	SYSTEM LOOP	NEW CARD
2A/S1	6X6	300	5	-	2	-	-	-	X	X	X	X	-
2B/S2	6X6	300	5	-	2	-	-	-	X	X	X	X	-
4A	6X40	0	2-4-2	-	4	-	-	-	X	X	-	-	-
4B	6X40	0	2-4-2	-	4	-	-	-	X	X	-	-	-
5A	6X40	0	2-4-2	-	5	-	-	-	X	X	-	-	-
5B	6X40	0	2-4-2	-	5	-	-	-	X	X	-	-	-
5C	6X40	0	2-4-2	-	5	-	15	-	X	X	-	-	-
6A/S3	6X6	300	6	-	6	-	-	-	X	X	X	X	-

3 Phase
Fully Actuated
(Greensboro Signal System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 5 may be lagged.
4. Set all detector units to presence mode.
5. Pavement markings are existing.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



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	
N/A	Guardrail	
A	Left Arrow "ONLY" Sign (R3-5L)	A
B	"YIELD" Sign (R1-2)	B
C	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	C
D	No U-Turn Sign (R3-4)	D
E	Right Arrow "ONLY" Sign (R3-5R)	E
	Construction Area	

NAZTEC APOGEE 2070 TIMING CHART

FEATURE	PHASE 2	4	5	6
Min Green *	12	7	7	12
Gap, Extension *	6.0	2.0	2.0	6.0
Maximum Green 1 *	90	25	20	90
Maximum Green 2 *	90	25	20	90
Yellow Clear	4.8	3.0	3.0	4.3
Red Clear	2.4	3.7	4.4	2.8
Walk *	-	-	-	-
Pedestrian Clear	-	-	-	-
Added Initial *	1.5	-	-	2.5
Maximum Initial *	34	-	-	34
Time Before Reduction *	15	-	-	15
Time To Reduce *	30	-	-	30
Minimum Gap	3.0	-	-	3.0
Recall Mode	MIN RECALL	-	-	MIN RECALL
Lock Calls	YES	NO	NO	YES
Dual Entry	-	-	-	-
Simultaneous Gap	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.

$$$$SYSTIME$$$$
$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

Signal Revision - Temporary Design

MOTT MACDONALD
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License No. F-0669

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'

SR 4228 (Vickrey Chapel Rd.) at SR 4121 (Jamestown Pkwy.)

Division 7	Guilford County	Greensboro
PLAN DATE: February 2018	REVIEWED BY: R. Thompson	
PREPARED BY: B. Lehan	REVIEWED BY:	

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSigned by: Brendan Lehan 3/20/2018
8B1708E2F7B54CD...
SIGNATURE DATE

SIG. INVENTORY NO. 07-2183T