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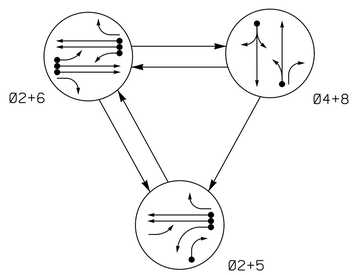
PROJECT REFERENCE NO.	SHEET NO.
U-5738	Sig 3.0

3 Phase
Fully Actuated
(Salisbury Signal System)

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

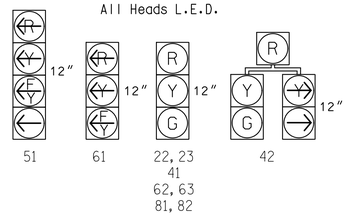
DETECTED MOVEMENT
UNDETECTED MOVEMENT (OVERLAP)

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+5	PHASE Ø2+6	PHASE Ø4+8	FLASH
22, 23	G	G	R	Y
41	R	R	G	R
42	R/-	R	G	R
51	-	F Y	R	Y
61	F Y	F Y	R	Y
62, 63	R	G	R	Y
81, 82	R	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.



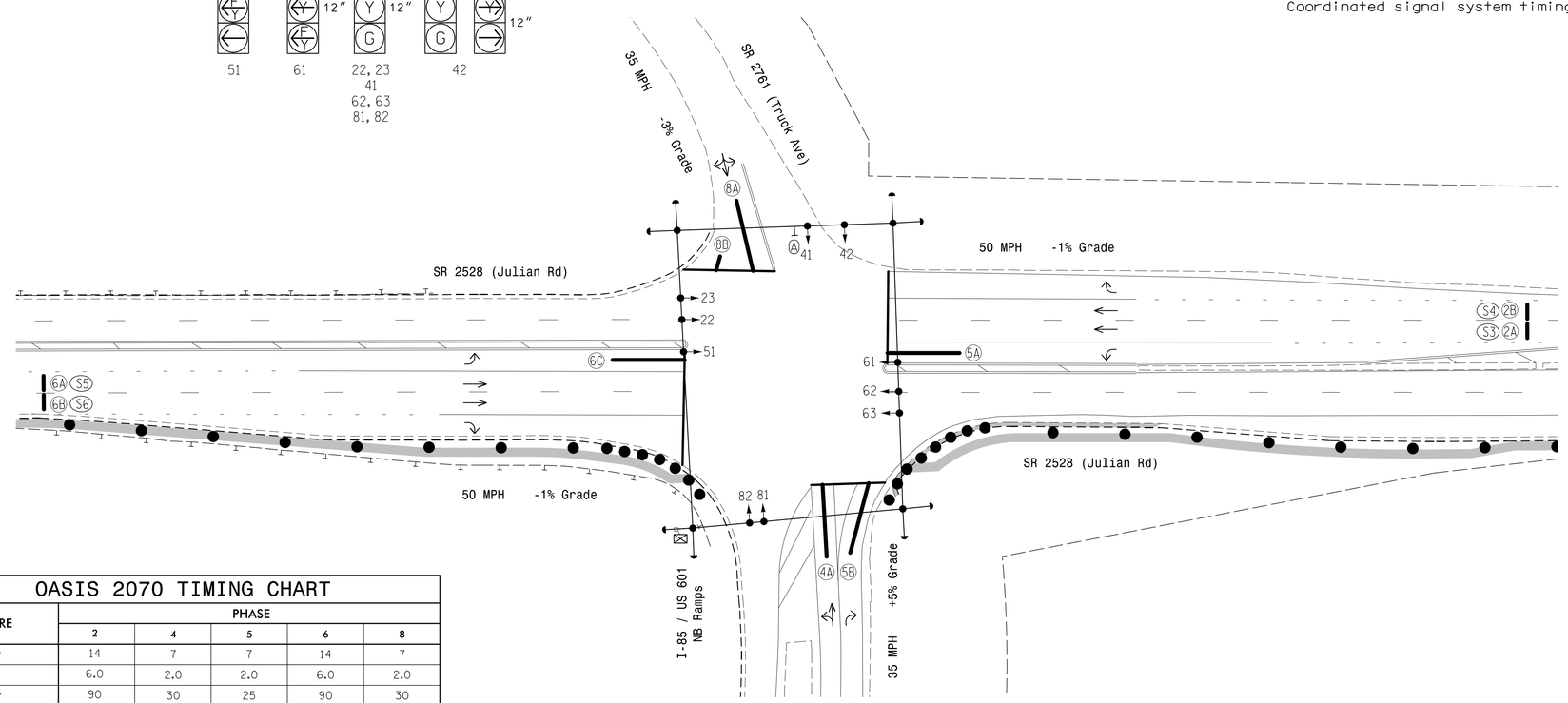
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A/S3	6X6	355	*	*	2	Y	Y	-	-	-	Y	*
2B/S4	6X6	355	*	*	2	Y	Y	-	-	-	Y	*
4A	6X40	0	*	*	4	Y	Y	-	-	-	-	*
5A	6X40	0	*	*	5	Y	Y	-	-	15	-	*
					2	Y	Y	Y	-	3	-	*
5B	6X40	0	*	*	5	Y	Y	-	-	15	-	*
6A/S5	6X6	355	*	*	6	Y	Y	-	-	-	Y	*
6B/S6	6X6	355	*	*	6	Y	Y	-	-	-	Y	*
6C	6X40	0	*	*	6	Y	Y	Y	-	3	-	*
8A	6X40	0	*	*	8	Y	Y	-	-	5	-	*
8B	6X6	0	*	*	8	Y	Y	-	-	15	-	*

* Video Detection Zone

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. Install a video imaging loop emulator detection system to maintain vehicle detection during construction. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to obtain optimum detection zones as shown.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Pavement markings are existing.
8. 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	
	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 Drums	
	Construction Zone	
	Video Detection Area	
N/A	Guardrail	
	Combined Through and Left Arrow Sign (R3-6L)	

OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 5	PHASE 6	PHASE 8
Min Green 1 *	14	7	7	14	7
Extension 1 *	6.0	2.0	2.0	6.0	2.0
Max Green 1 *	90	30	25	90	30
Yellow Clearance	4.9	3.6	3.0	4.9	4.1
Red Clearance	1.6	2.7	2.8	1.6	2.2
Red Revert	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-
Don't Walk 1	-	-	-	-	-
Seconds Per Actuation *	1.5	-	-	1.5	-
Max Variable Initial *	40	-	-	40	-
Time Before Reduction *	15	-	-	15	-
Time To Reduce *	30	-	-	30	-
Minimum Gap	3.0	-	-	3.0	-
Recall Mode	MIN RECALL	-	-	MIN RECALL	-
Vehicle Call Memory	YELLOW	-	-	YELLOW	-
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.

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

(TMP Phases I & II)
Signal Upgrade - Temporary Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SR 2528 (Julian Rd)
at
I-85/US 601 NB Ramps and
SR 2761 (Truck Ave)

Division 9 Rowan County Salisbury

PLAN DATE: November 2021 REVIEWED BY: B. Phillips
PREPARED BY: Z. "Gavin" Teng REVIEWED BY:

SCALE 0 40 1" = 40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 032179 ENGINEER HAOLONG TENG

DocuSigned by: Haolong Teng 12/3/2021
SIGNATURE DATE

SIG. INVENTORY NO. 09-0992T

PREPARED IN THE OFFICE OF:

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