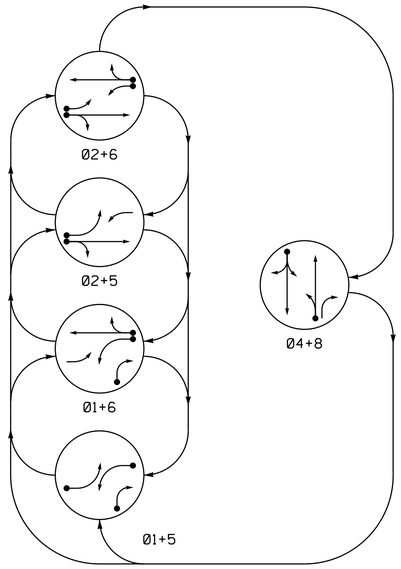
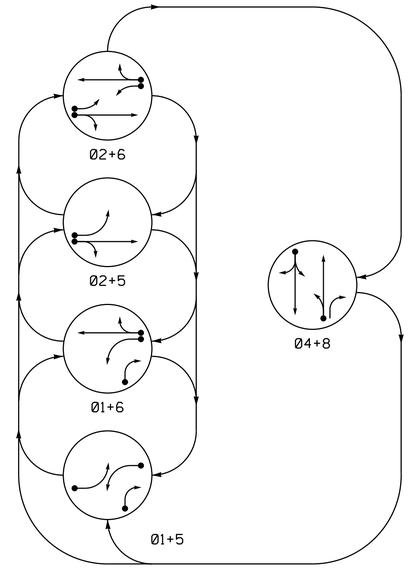
PROJECT REFERENCE NO.	SHEET NO.
R-3830	SIG-9.0

DEFAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION						
SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	FLASH
11	←	←	F/Y	F/Y	R	Y
21, 22	R	R	G	G	R	Y
41, 42	R	R	R	G	G	R
51	←	F/Y	←	F/Y	R	Y
61, 62	R	G	R	G	R	Y
81	R	R	R	R	G	R
82	R/→	R/→	R	R	G	R

ALTERNATE PHASING DIAGRAM



ALTERNATE PHASING TABLE OF OPERATION						
SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	FLASH
11	←	←	R	R	R	Y
21, 22	R	R	G	G	R	Y
41, 42	R	R	R	R	G	R
51	←	R	←	R	R	Y
61, 62	R	G	R	G	R	Y
81	R	R	R	R	G	R
82	R/→	R/→	R	R	G	R

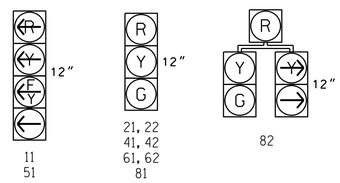
5 Phase
Fully Actuated
(Isolated)

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 1 and/or phase 5 may be lagged.
4. Set all detector units to presence mode.
5. The Division Traffic Engineer will determine the hours of use for each phasing plan.
6. This location utilizes a video detection system. Camera locations should be confirmed in the field by the contractor in order to provide detection of the areas indicated.

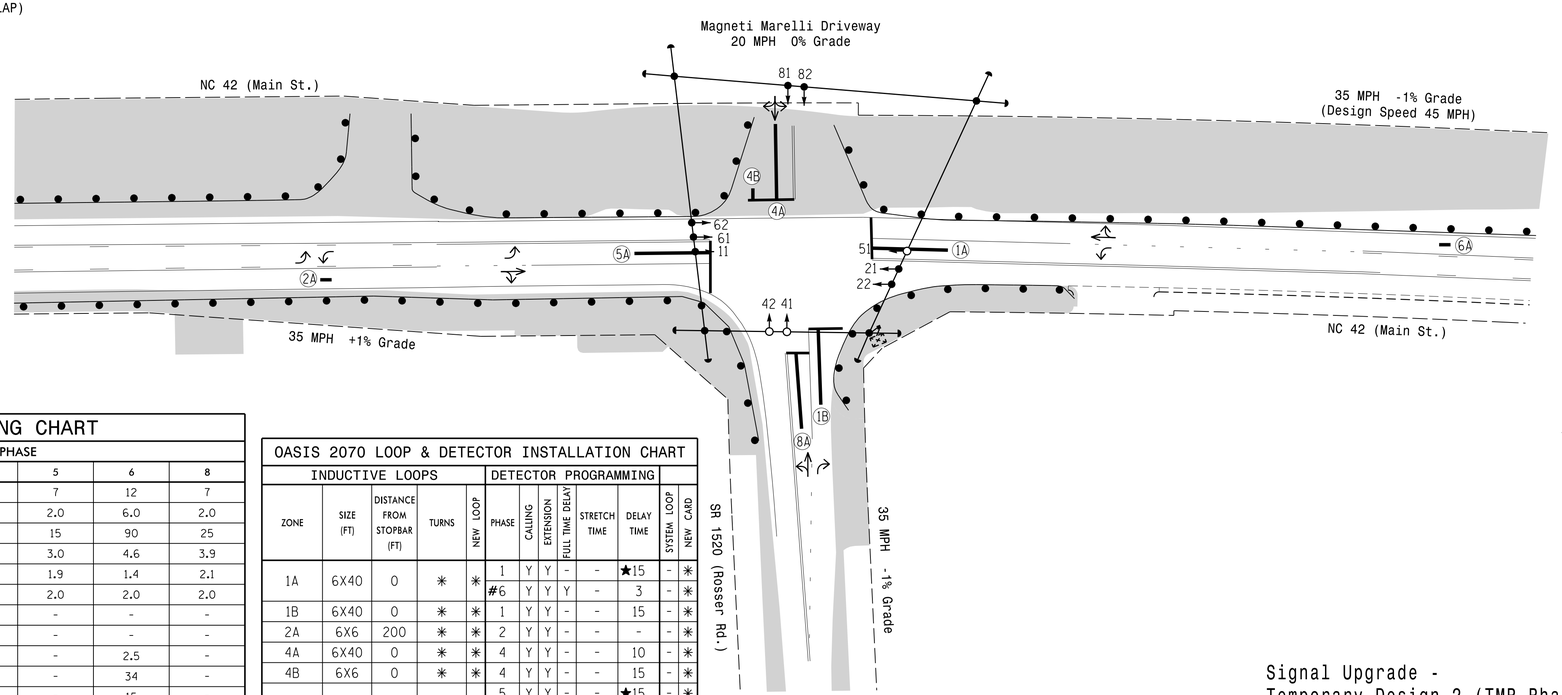
SIGNAL FACE I.D.

All Heads L.E.D.



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	
	Video Detection Zone	
	Construction Zone	
	Construction Zone Drums	

OASIS 2070 TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	10	7	7	12	7
Extension 1 *	2.0	5.0	2.0	2.0	6.0	2.0
Max Green 1 *	15	90	25	15	90	25
Yellow Clearance	3.0	4.6	3.9	3.0	4.6	3.9
Red Clearance	1.9	1.4	2.1	1.9	1.4	2.1
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	2.4	-	-	2.5	-
Max Variable Initial *	-	24	-	-	34	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	34	-	-	34	-
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	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.

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	✳	✳	1	Y	Y	-	-	★15	-	✳
					#6	Y	Y	Y	-	3	-	✳
1B	6X40	0	✳	✳	1	Y	Y	-	-	15	-	✳
2A	6X6	200	✳	✳	2	Y	Y	-	-	-	-	✳
4A	6X40	0	✳	✳	4	Y	Y	-	-	10	-	✳
4B	6X6	0	✳	✳	4	Y	Y	-	-	15	-	✳
5A	6X40	0	✳	✳	5	Y	Y	-	-	★15	-	✳
					#2	Y	Y	Y	-	3	-	✳
6A	6X6	300	✳	✳	6	Y	Y	-	-	-	-	✳
8A	6X40	0	✳	✳	8	Y	Y	-	-	3	-	✳

✳ Video Detection Zone
★ Reduce Delay to 3 seconds during Alternate Phasing Operation.
Disable Phase(s) call during Alternate Phasing Operation.

Signal Upgrade -
Temporary Design 2 (TMP Phase II)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

NC 42 (Main Street) at SR 1520 (Rosser Road) and Magneti Marelli Driveway

Division 8 Lee County Sanford

PLAN DATE: January 2022	REVIEWED BY:
PREPARED BY: J.A. Lohr	REVIEWED BY:

REVISIONS	INIT.	DATE

SCALE 0 40 1"=40'

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 026486 ENGINEER ROBERT J. ZIEMBA
DocuSigned by: 04/19/2022
DATE
SIG. INVENTORY NO. 08-1018T2

$$$$$$$SYSDATE$$$$$
19-APR-2022 01:21
-WBI-R-3830-SIG-9.0-2022mmdd.dgn
jalohr