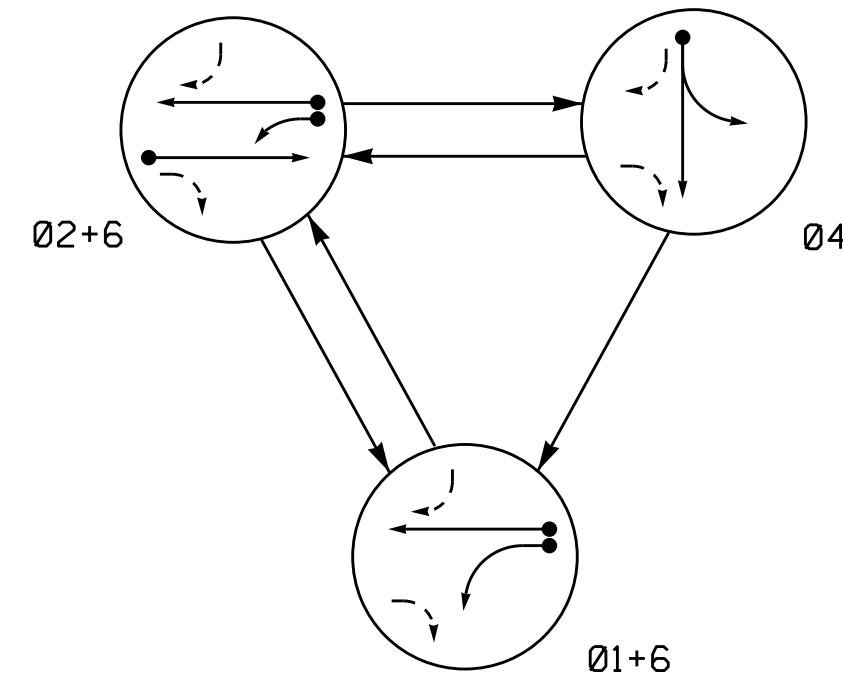
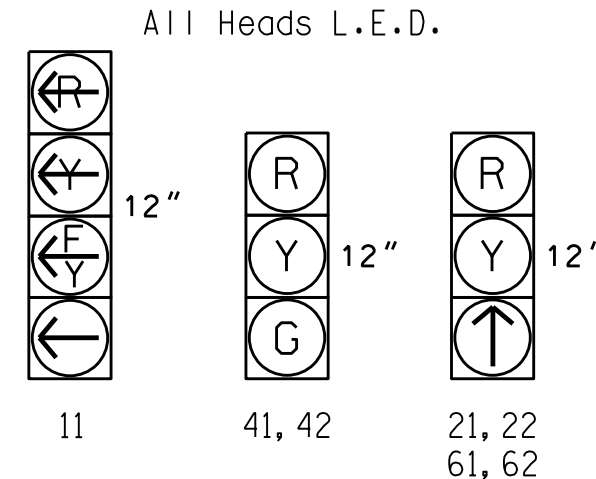


**PHASING DIAGRAM**



SIGNAL FACE	PHASE			
	01+6	02+6	04	FLIGHT
11	←	←	←	←
21, 22	R	↑	R	Y
41, 42	R	R	G	R
61, 62	↑	↑	R	Y

**SIGNAL FACE I.D.**

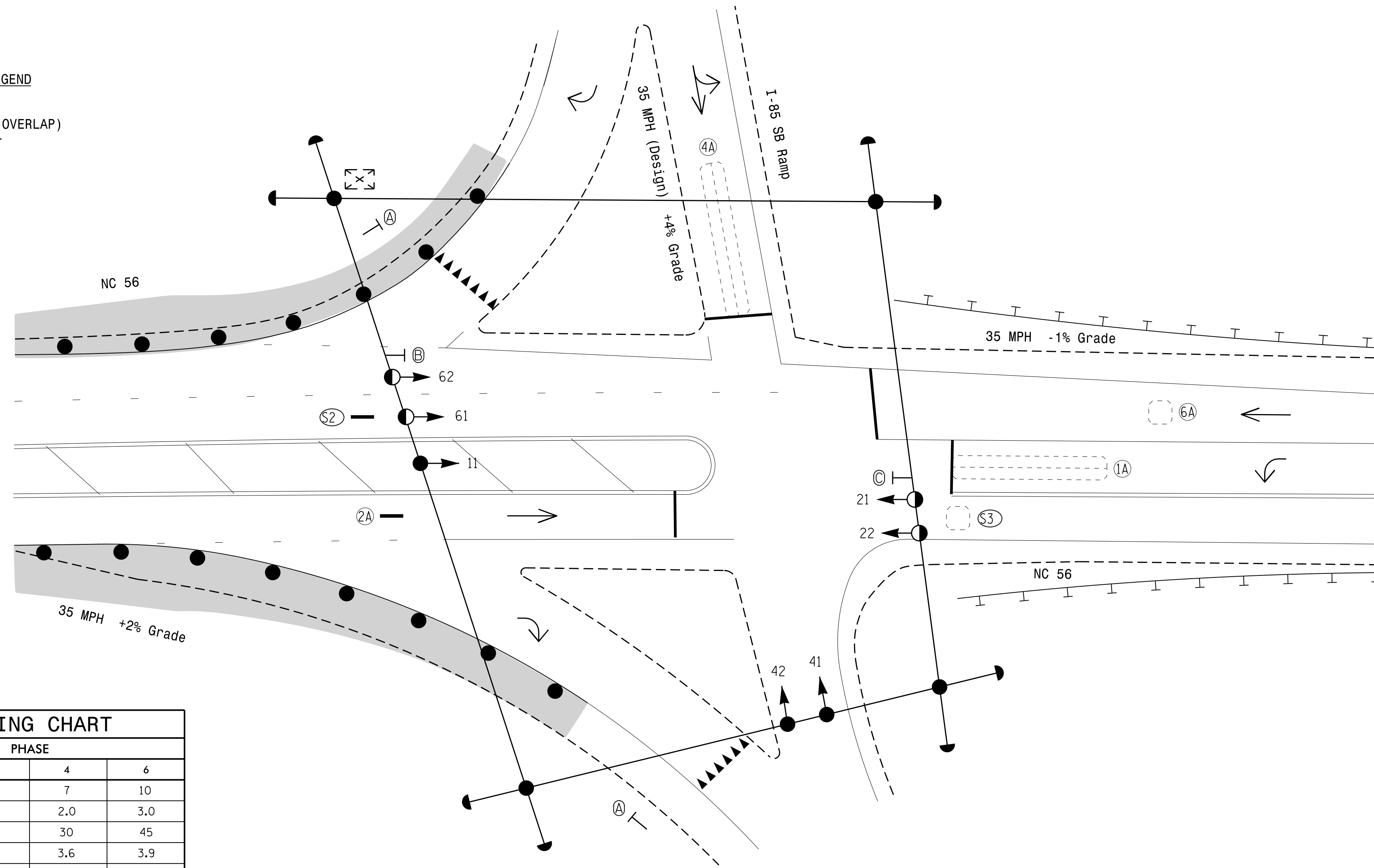


OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
LOOP/ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME			DELAY TIME
1A	6X40	0	2-4-2	-	1	Y	Y	-	-	15	-	-
2A*	6X6	70	*	Y	2	Y	Y	-	-	-	-	*
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	-
6A	6X6	70	EXIST	-	6	Y	Y	-	-	-	-	-
S2*	6X6	+130	*	Y	-	-	-	-	-	-	Y	*
S3	6X6	+70	EXIST	-	-	-	-	-	-	-	Y	-

\* Video detection zone.

**PHASING DIAGRAM DETECTION LEGEND**

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



OASIS 2070 TIMING CHART				
FEATURE	PHASE			
	1	2	4	6
Min Green 1 *	7	10	7	10
Extension 1 *	2.0	3.0	2.0	3.0
Max Green 1 *	20	45	30	45
Yellow Clearance	3.0	3.9	3.6	3.9
Red Clearance	1.8	1.0	1.8	1.0
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	-	MIN RECALL	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	YELLOW
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.

3 Phase Fully Actuated (NC 56 (Butner) CLS) Signal System #: D05-56\_Butner

**NOTES**

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

**LEGEND**

- |  |   |  |                              |
|--|---|--|------------------------------|
|  | PROPOSED Traffic Signal Head                            |  | EXISTING Traffic Signal Head |
|  | PROPOSED Modified Signal Head                           |  | EXISTING N/A                 |
|  | PROPOSED Pedestrian Signal Head With Push Button & Sign |  | EXISTING N/A                 |
|  | PROPOSED Signal Pole with Guy                           |  | EXISTING N/A                 |
|  | PROPOSED Signal Pole with Sidewalk Guy                  |  | EXISTING N/A                 |
|  | PROPOSED Inductive Loop Detector                        |  | EXISTING N/A                 |
|  | PROPOSED Controller & Cabinet                           |  | EXISTING N/A                 |
|  | PROPOSED Junction Box                                   |  | EXISTING N/A                 |
|  | PROPOSED 2-in Underground Conduit                       |  | EXISTING N/A                 |
|  | PROPOSED Right of Way                                   |  | EXISTING N/A                 |
|  | PROPOSED Directional Arrow                              |  | EXISTING N/A                 |
|  | PROPOSED Guardrail                                      |  | EXISTING N/A                 |
|  | PROPOSED Construction Zone Drums                        |  | EXISTING N/A                 |
|  | PROPOSED Construction Zone                              |  | EXISTING N/A                 |
|  | PROPOSED Video Detection Zone                           |  | EXISTING N/A                 |
|  | PROPOSED "YIELD" Sign (R1-2)                            |  | EXISTING N/A                 |
|  | PROPOSED No Right Turn Sign (R3-1)                      |  | EXISTING N/A                 |
|  | PROPOSED No Left Turn Sign (R3-2)                       |  | EXISTING N/A                 |

Signal Upgrade - Temporary Design 1 (TMP Phases I and II)

750 N. Greenfield Pkwy, Garner, NC 27529

Prepared in the Offices of:

Robert J. Zimera  
Professional Engineer  
No. 026486

**NC 56**  
at  
**I-85 SB Ramps**

Division 5 Granville County Butner

PLAN DATE: February 2024 REVIEWED BY:

PREPARED BY: J.A. Lohr REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

03/14/2024

SIG. INVENTORY NO. 05-004411