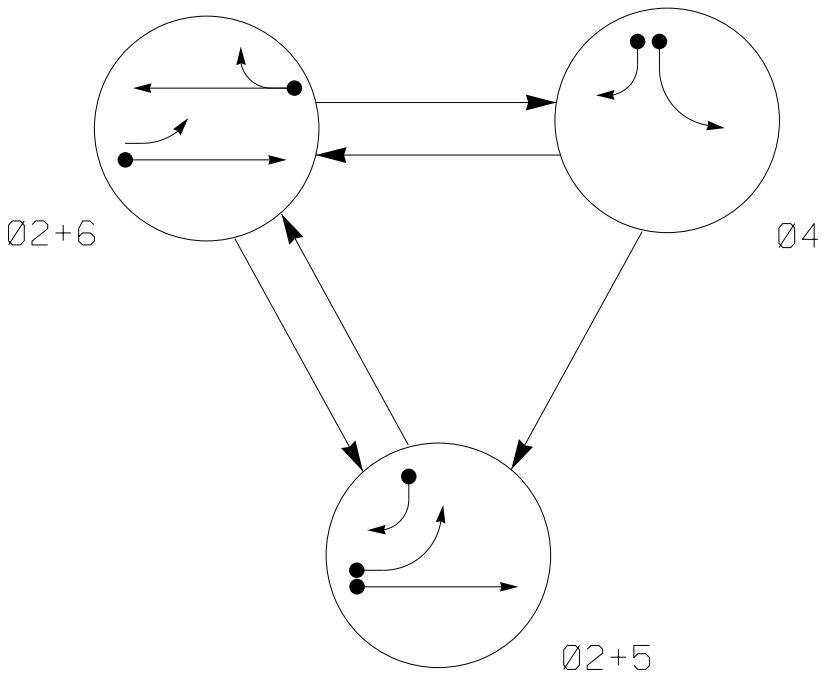


PHASING DIAGRAM

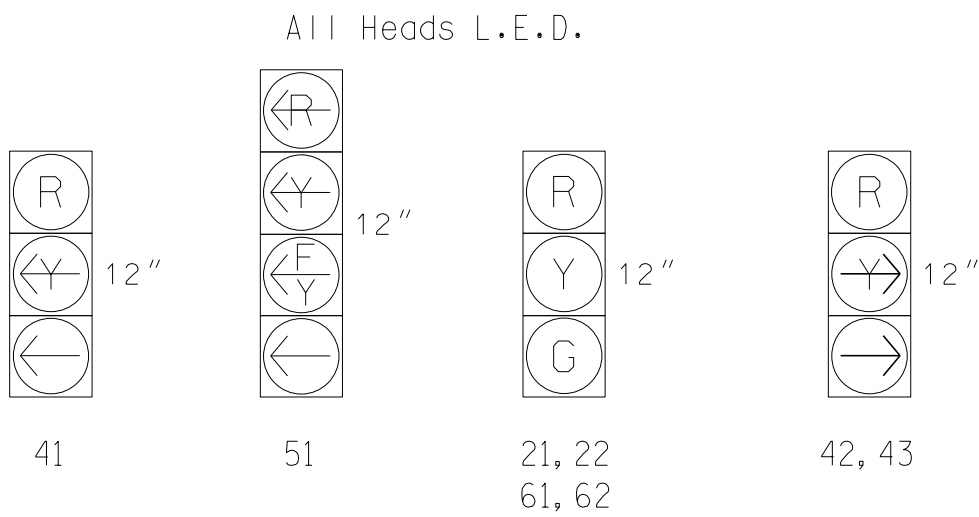


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE			
	Ø 2 + 5	Ø 2 + 6	Ø 4	FLUSH
21, 22	G	G	R	R
41	R	R	←	R
42, 43	→	R	→	R
51	←	←	←	←
61, 62	R	G	R	R

SIGNAL FACE I.D.

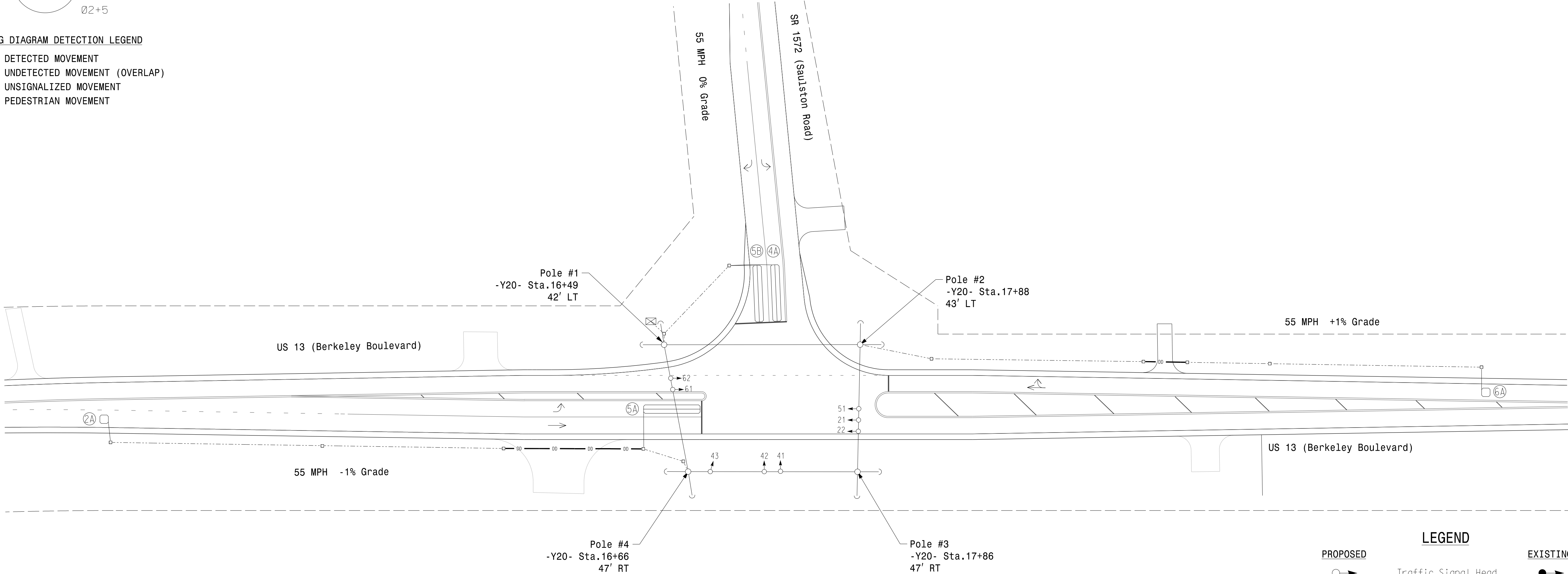


MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	NEW CARD
2A	6X6	420	6	X	2	-	-	X	X	X	-
4A	6X40	0	2-4-2	X	4	-	-	X	-	X	-
5A	6X40	0	2-4-2	X	5	15	-	X	-	X	-
5B	6X40	0	2-4-2	X	2	3	-	X	-	X	-
6A	6X6	420	6	X	6	-	-	X	X	X	-

3 Phase  
Fully Actuated  
(Isolated)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 5 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.



MAXTIME TIMING CHART

FEATURE	PHASE			
	2	4	5	6
Walk *	-	-	-	-
Ped Clear	-	-	-	-
Min Green *	12	7	7	12
Passage *	6.0	2.0	2.0	6.0
Max I *	90	20	15	90
Yellow Change	5.3	3.0	3.0	5.3
Red Clear	1.3	2.6	2.4	1.3
Added Initial *	2.5	-	-	2.5
Maximum Initial *	46	-	-	46
Time Before Reduction *	15	-	-	15
Time To Reduce *	30	-	-	30
Minimum Gap	3.4	-	-	3.4
Advance Walk	-	-	-	-
Non Lock Detector	-	X	X	-
Vehicle Recall	MIN RECALL	-	-	MIN RECALL
Dual Entry	-	-	-	-

\* 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 1 over than 4 seconds.

LEGEND

- | PROPOSED                                       | EXISTING                                       |
|--|--|
| Traffic Signal Head                            | Traffic Signal Head                            |
| Modified Signal Head                           | Modified Signal Head                           |
| Sign   | Sign   |
| Pedestrian Signal Head With Push Button & Sign | Pedestrian Signal Head With Push Button & Sign |
| Signal Pole with Guy                           | Signal Pole with Guy                           |
| Signal Pole with Sidewalk Guy                  | Signal Pole with Sidewalk Guy                  |
| Inductive Loop Detector                        | Inductive Loop Detector                        |
| Controller & Cabinet                           | Controller & Cabinet                           |
| Junction Box                                   | Junction Box                                   |
| 2-in Underground Conduit                       | 2-in Underground Conduit                       |
| Directional Drill                              | Directional Drill                              |
| N/A  | N/A  |
| Right of Way                                   | Right of Way                                   |
| Directional Arrow                              | Directional Arrow                              |

New Installation

Stantec Consulting Services Inc.  
801 Jones Franklin Road-Suite 300  
Raleigh, NC 27606  
Tel. (919) 851-6866  
Fax. (919) 851-7024  
www.stantec.com  
License No. F-0672

Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 13 (Berkeley Boulevard)  
at  
SR 1572 (Saulston Road)

Division 4 Wayne County Goldsboro

PLAN DATE: March 2025 REVIEWED BY: J. Galloway

PREPARED BY: J. Hambricht REVIEWED BY: R M Muncey

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

Signed by: Jason Galloway 8/18/2025

DATE

SIG. INVENTORY NO. 04-1468