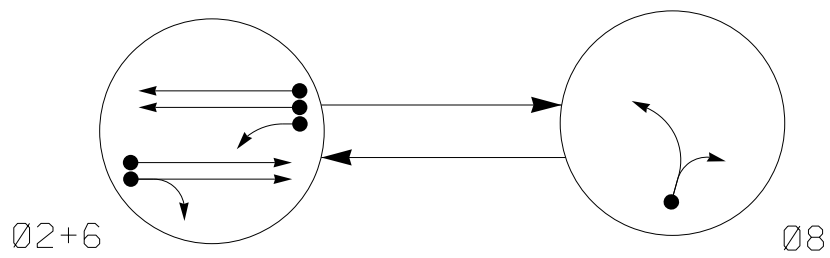


PHASING DIAGRAM



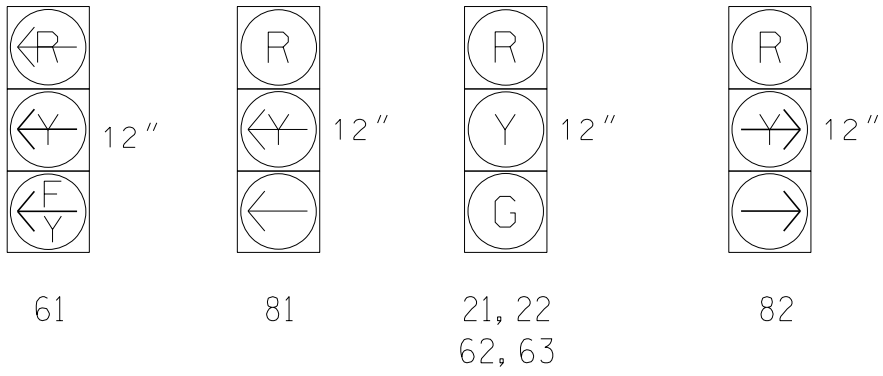
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE		
	Ø 2 + 6	Ø 8	FLIGHT
21, 22	G	R	R
61	F	R	R
62, 63	G	R	R
81	R	←	R
82	R	→	R

SIGNAL FACE I.D.

All Heads L.E.D.



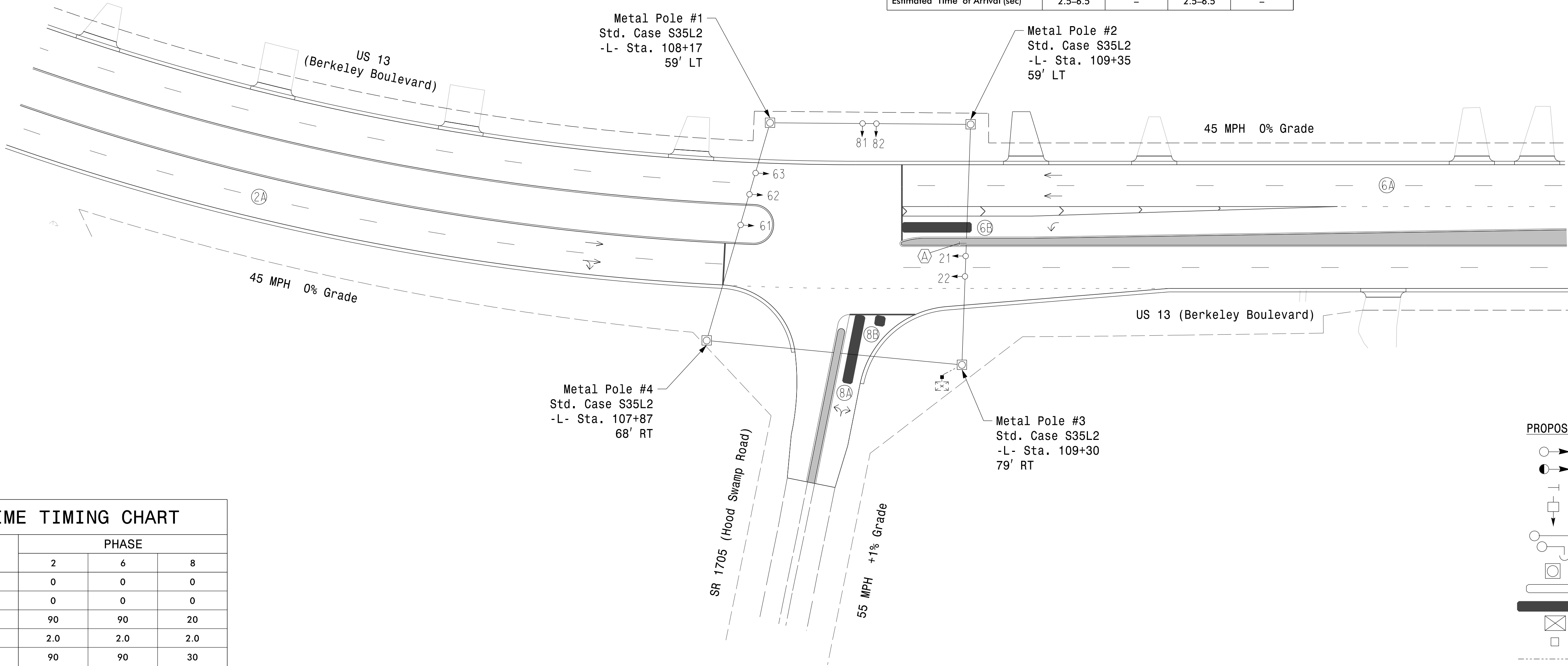
MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	NEW CARD
6B	6X40	0	*	*	6	-	-	X	-	X	-
8A	6X40	0	*	*	8	5.0	-	X	-	X	-
8B	6X6	0	*	*	8	15.0	-	X	-	X	-

* Multi-zone Microwave Detection

Multi-zone Microwave Detection				
FUNCTION	2A Sensor 1	6A Sensor 2		
Channel	1	1		
Phase	2	6		
Direction of Travel	NB	SB		
Type	Priority	Priority		
Level	1	1		
Detection Zone (ft)	100-500	100-150	100-500	100-150
Enable Speed	Y	Y	Y	Y
Speed Range (mph)	35-100	1-35	35-100	1-35
Enable Estimated Time of Arrival	Y	N	Y	N
Estimated Time of Arrival (sec)	2.5-6.5	-	2.5-6.5	-

MAXTIME TIMING CHART				
FEATURE	PHASE			
	2	6	8	
Walk *	0	0	0	
Ped Clear	0	0	0	
Min Green *	90	90	20	
Passage *	2.0	2.0	2.0	
Max I *	90	90	30	
Yellow Change	4.5	4.5	3.0	
Red Clear	1.5	1.5	2.8	
Added Initial *	-	-	-	
Maximum Initial *	-	-	-	
Time Before Reduction *	-	-	-	
Time To Reduce *	-	-	-	
Minimum Gap	-	-	-	
Advance Walk	-	-	-	
Non Lock Detector	-	-	X	
Vehicle Recall	MIN RECALL	MIN RECALL	-	
Dual Entry	-	-	-	

* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



LEGEND

- | PROPOSED | EXISTING |
|--|--------------------------------------|
| Traffic Signal Head | Modified Signal Head |
| Pedestrian Signal Head With Push Button & Sign | Signal Pole with Guy |
| Signal Pole with Sidewalk Guy | Metal Strain Pole |
| Inductive Loop Detector | Multi-zone Microwave Detection |
| Controller & Cabinet | Junction Box |
| 2-in Underground Conduit | Right of Way |
| Directional Arrow | No U-Turn /No Left Turn Sign (R3-18) |

Signal Upgrade - Final Design

Stantec Consulting Services Inc.
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Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 13 (Berkeley Boulevard)
at
SR 1705 (Hood Swamp 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

Seal of J. Galloway, Professional Engineer, No. 029904, State of North Carolina.

Signed by: J. Galloway DATE: 8/18/2025

SIG. INVENTORY NO. 04-0991