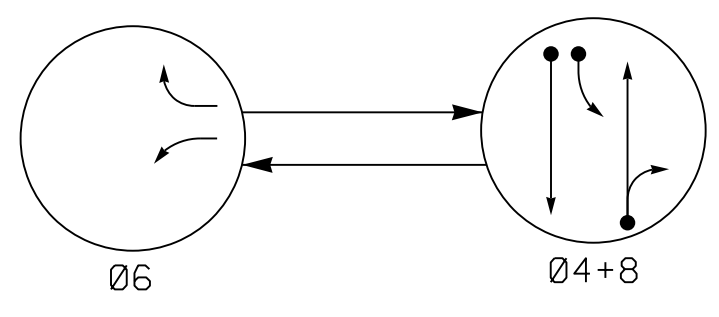


**PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

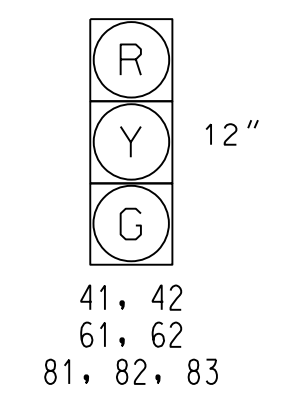
- ◄● DETECTED MOVEMENT
- ◄◄ UNDETECTED MOVEMENT (OVERLAP)
- ◄-- UNSIGNALIZED MOVEMENT
- ◄--> PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE		
	Ø6	Ø4+8	FLIGHT
41, 42	R	G	R
61, 62	G	R	Y
81, 82, 83	R	G	R

**SIGNAL FACE I.D.**

All Heads L.E.D.



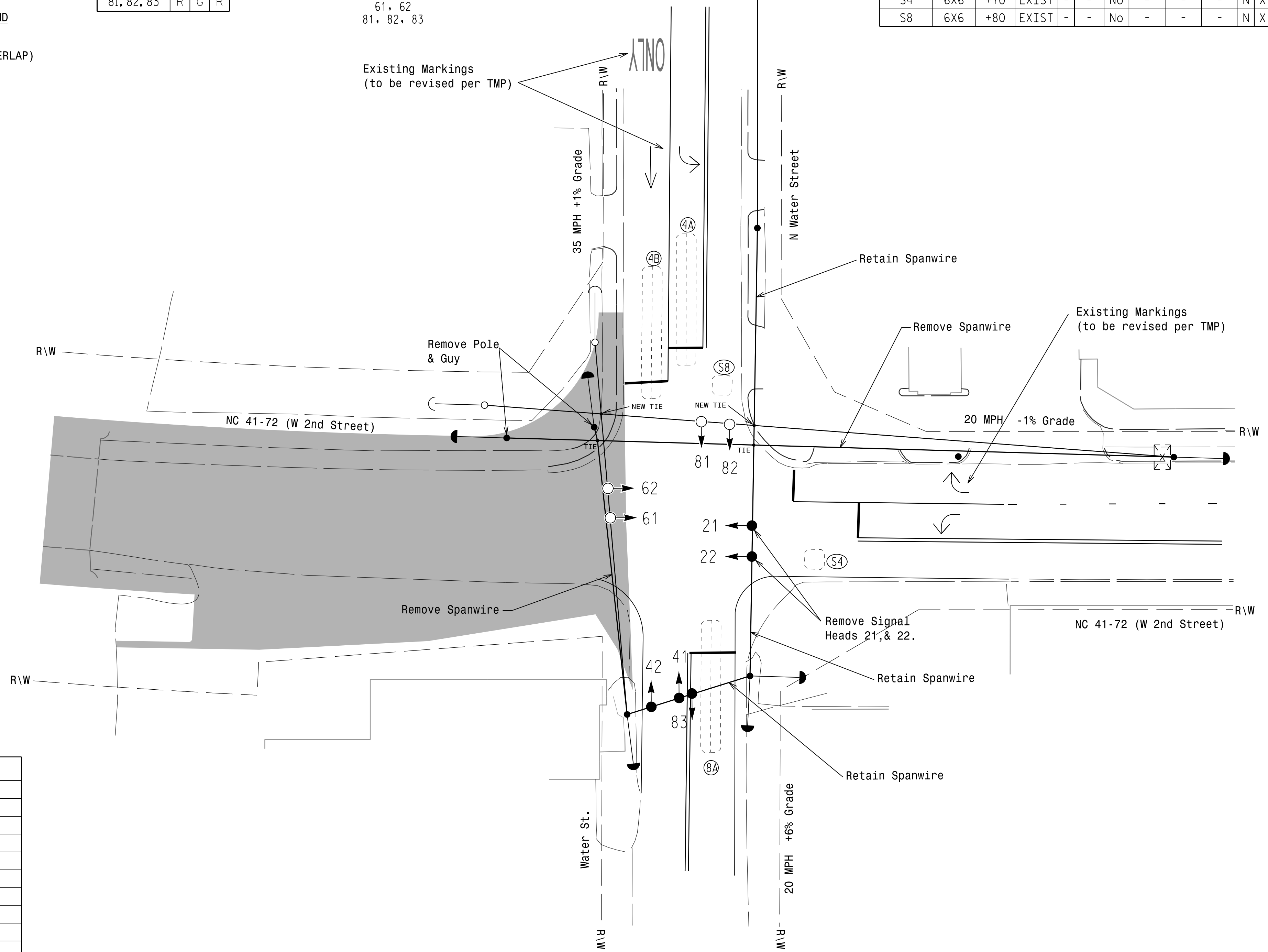
**ASC/3 DETECTOR INSTALLATION CHART**

LOOP	DETECTOR			PROGRAMMING							
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	LOOP SYSTEM	NEW CARD
4A	6X40	+5	EXIST	-	4	Yes	-	-	-	N	-
4B	6X40	+5	EXIST	-	4	Yes	-	-	-	N	-
8A	6X40	+10	EXIST	-	8	Yes	-	5	-	N	-
S4	6X6	+70	EXIST	-	-	No	-	-	-	N	X
S8	6X6	+80	EXIST	-	-	No	-	-	-	N	X

**2 Phase Semi-Actuated Signal System #D06-24 Lumberton NC 41-72 (Second St.)**

**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. Set all detector units to presence mode.
4. Revise existing pavement markings per TMP.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
6. Remove signal head #21 & #22.



**ASC/3 TIMING CHART**

FEATURE	PHASE		
	4	6	8
Min Green *	7	10	7
Walk *	-	-	-
Ped Clear	-	-	-
Veh. Extension *	2.0	3.0	2.0
Max 1 *	15	35	15
Yellow	3.8	3.0	3.0
Red Clear	1.5	2.3	2.1
Red Revert	2.0	2.0	2.0
Actuations B4 Add *	-	-	-
Seconds /Actuation *	-	-	-
Max Initial *	-	-	-
Time Before Reduction *	-	-	-
Time To Reduce *	-	-	-
Minimum Gap	-	-	-
Locking Detector	-	-	-
Recall Position	-	MAX. RECALL	-
Dual Entry	X	-	X
Simultaneous Gap	X	-	X

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

**LEGEND**

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
◐ → Modified Signal Head	◑ → N/A
⊥ Sign	⊥ N/A
⊥ Pedestrian Signal Head With Push Button & Sign	⊥ N/A
○ ⊥ Signal Pole with Guy	● ⊥ N/A
○ ⊥ Signal Pole with Sidewalk Guy	● ⊥ N/A
⊠ Inductive Loop Detector	⊠ N/A
⊠ Controller & Cabinet	⊠ N/A
⊠ Junction Box	⊠ N/A
--- 2-in Underground Conduit	--- N/A
- - - Right of Way	- - - N/A
→ Directional Arrow	→ N/A
█ Construction Zone	█ N/A

**Signal Upgrade Temporary Design**

**Stantec**  
 Stantec Consulting Services Inc.  
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 www.stantec.com  
 License No. F-0672

Prepared For the Offices of:  
  
 750 N. Greenfield Pkwy, Garner, NC 27529  
 SCALE: 0 20  
 1" = 20'

**NC 41-72 (West 2nd Street) at SR 1536 (North Water Street)**  
 Division 6 Robeson County Lumberton  
 PLAN DATE: FEBRUARY 2023 REVIEWED BY: R M Muncey  
 PREPARED BY: J. Hambricht REVIEWED BY: D Waller

REVISIONS	INIT.	DATE

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

DocuSigned by:  
 Regina M. Muncey 2/2/2023  
 SIGNATURE DATE  
 SIG. INVENTORY NO. 06-0193T

5985AS\SIG-2.0\DATE:02/02/2023  
 User: r.muncey