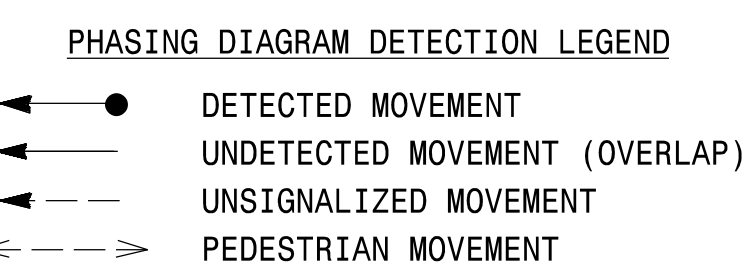
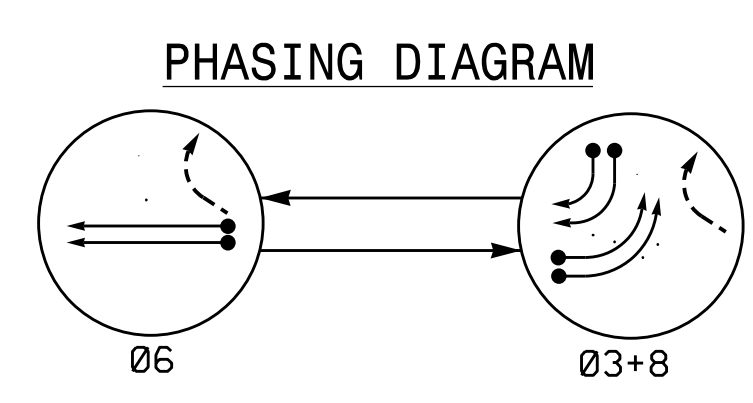


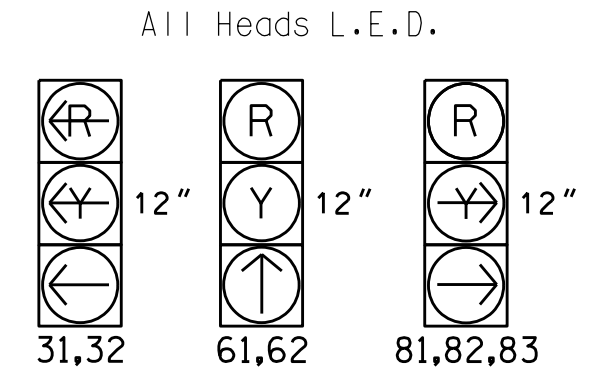
2 Phase Fully Actuated Wilkesboro Closed Loop System

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. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
5. Refer to Pavement Marking Plans for proposed stop bar locations.



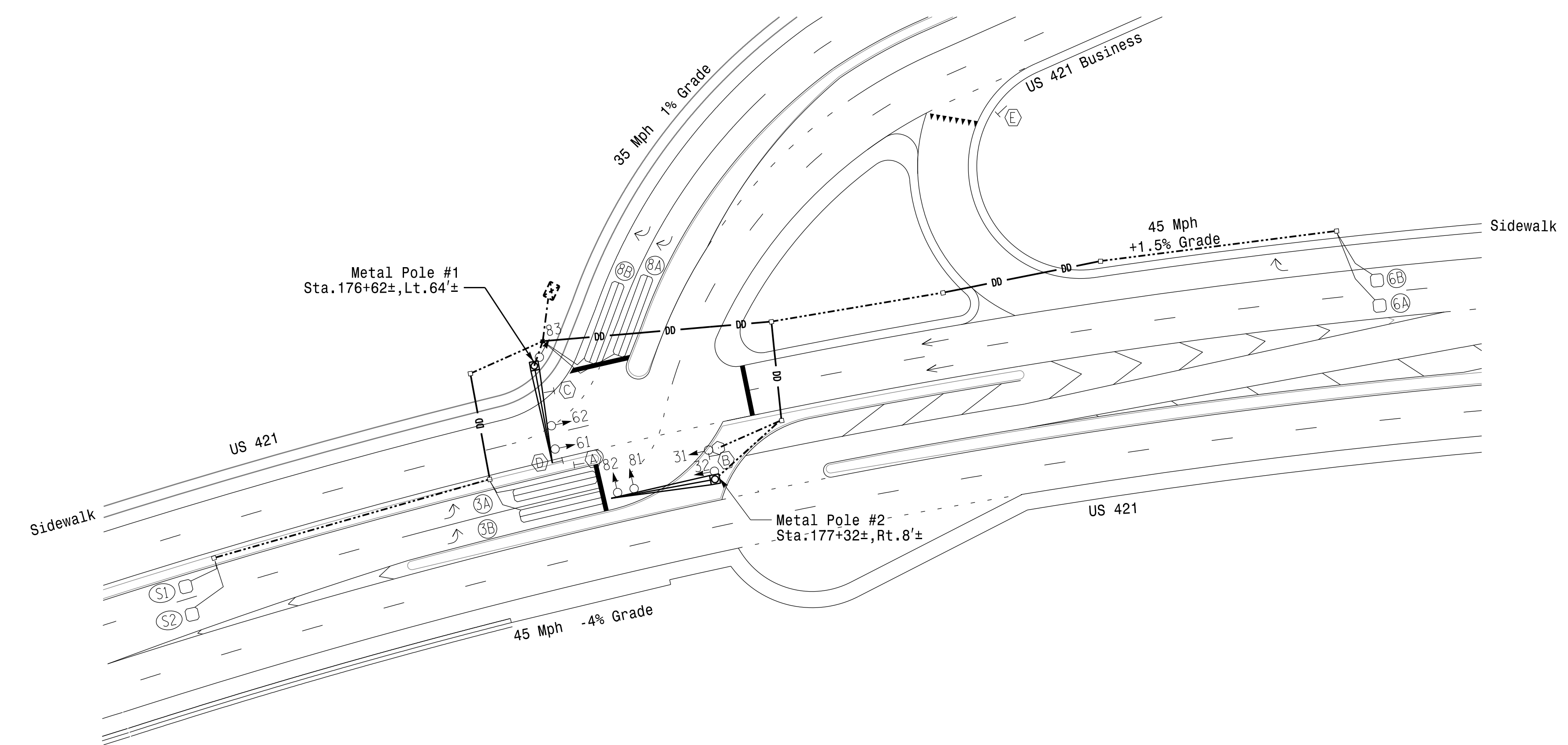
SIGNAL FACE I.D.



SIGNAL FACE	PHASE		
	06	03+8	FLASH
31,32	→	→	→
61,62	↑	R	Y
81,82,83	R	→	R

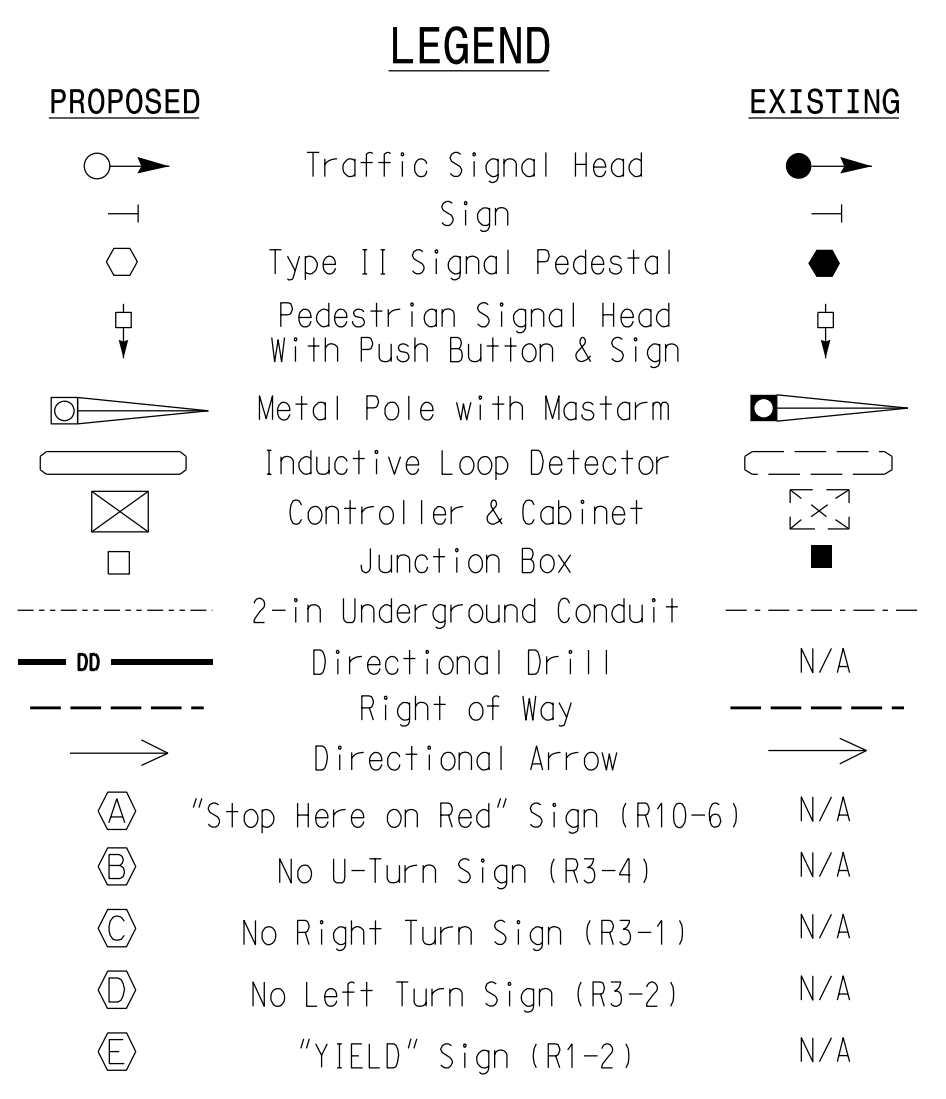
MAXTIME DETECTOR INSTALLATION CHART												
DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
3A	6X40	0	2-4-2	x	3	15.0*	-	X	-	X	-	X
3B	6X40	0	2-4-2	x	3	15.0*	-	X	-	X	-	X
6A	6X6	300	5	x	6	-	-	X	X	X	-	X
6B	6X6	300	5	x	6	-	-	X	X	X	-	X
8A	6X40	0	2-4-2	x	8	15.0	-	X	-	X	-	X
8B	6X40	0	2-4-2	x	8	15.0	-	X	-	X	-	X
S1	6X6	200	3	x	-	-	-	-	-	X	-	-
S2	6X6	200	3	x	-	-	-	-	-	X	-	-

\* Disable delay during alternate phasing operation



FEATURE	PHASE		
	3	6	8
Walk *	-	-	-
Ped Clear *	-	-	-
Min Green	7	12	7
Passage *	2.0	6.0	2.0
Max I *	30	60	30
Yellow Change	3.0	4.4	3.0
Red Clear	2.4	1.3	1.8
Added Initial *	-	1.5	-
Maximum Initial *	-	34	-
Time Before Reduction *	-	15	-
Time To Reduce *	-	30	-
Minimum Gap	-	3.4	-
Advance Walk	-	-	-
Non Lock Detector	X	-	X
Vehicle Recall	-	MIN RECALL	-
Dual Entry	X	-	X

\* 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.



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Signal Upgrade - Final Design

Prepared For the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 421 at US 421 Business

Division 11 Wilkes County Wilkesboro

PLAN DATE: May 2023 REVIEWED BY: M. Stygles

PREPARED BY: S.R. Chiluka REVIEWED BY: J. Ma

SCALE: 0 40

REVISIONS: INIT. DATE

DocuSigned by: S.R. Chiluka 5/26/2023

SIG. INVENTORY NO. 11-1146

