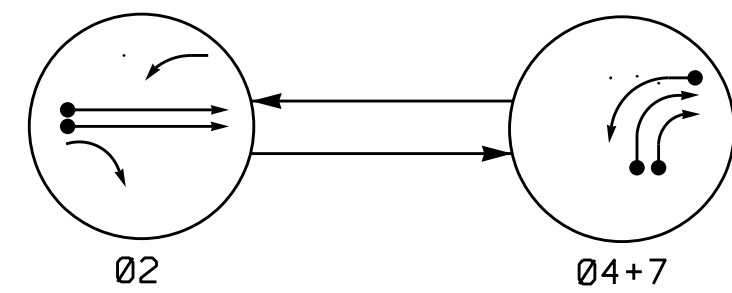
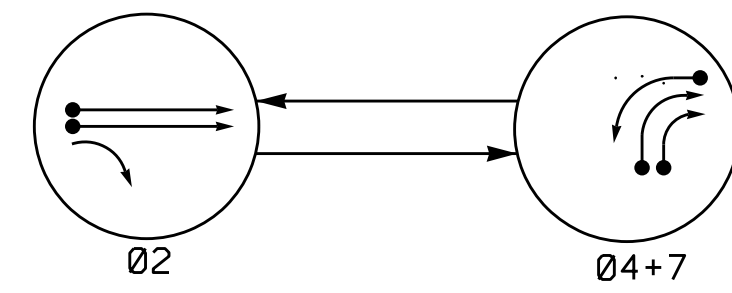


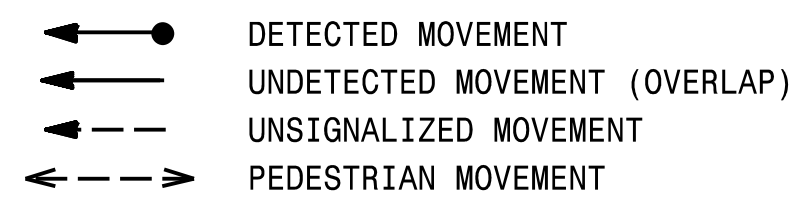
DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02	04+7	FLASH
21,22	↑	R	Y
23	↔	R	↔
41,42	R	→	R
71,72	↔	↔	↔

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02	04+7	FLASH
21,22	↑	R	Y
23	↔	R	↔
41,42	R	→	R
71,72	↔	↔	↔

MAXTIME DETECTOR INSTALLATION CHART										
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	PROGRAMMING		
								EXTEND	ADDED INITIAL	CALL DELAY DURING GREEN
2A	6X6	300	5	X	2	-	-	X	X	X
2B	6X6	300	5	X	2	-	-	X	X	X
4A	6X40	0	2-4-2	X	4	15.0	-	X	X	X
4B	6X40	0	2-4-2	X	4	15.0	-	X	X	X
7A	6X40	0	2-4-2	X	7	15.0*	-	X	X	X
S1	6X6	200	3	X	-	-	-	-	-	-

\* Disable delay during alternate phasing operation

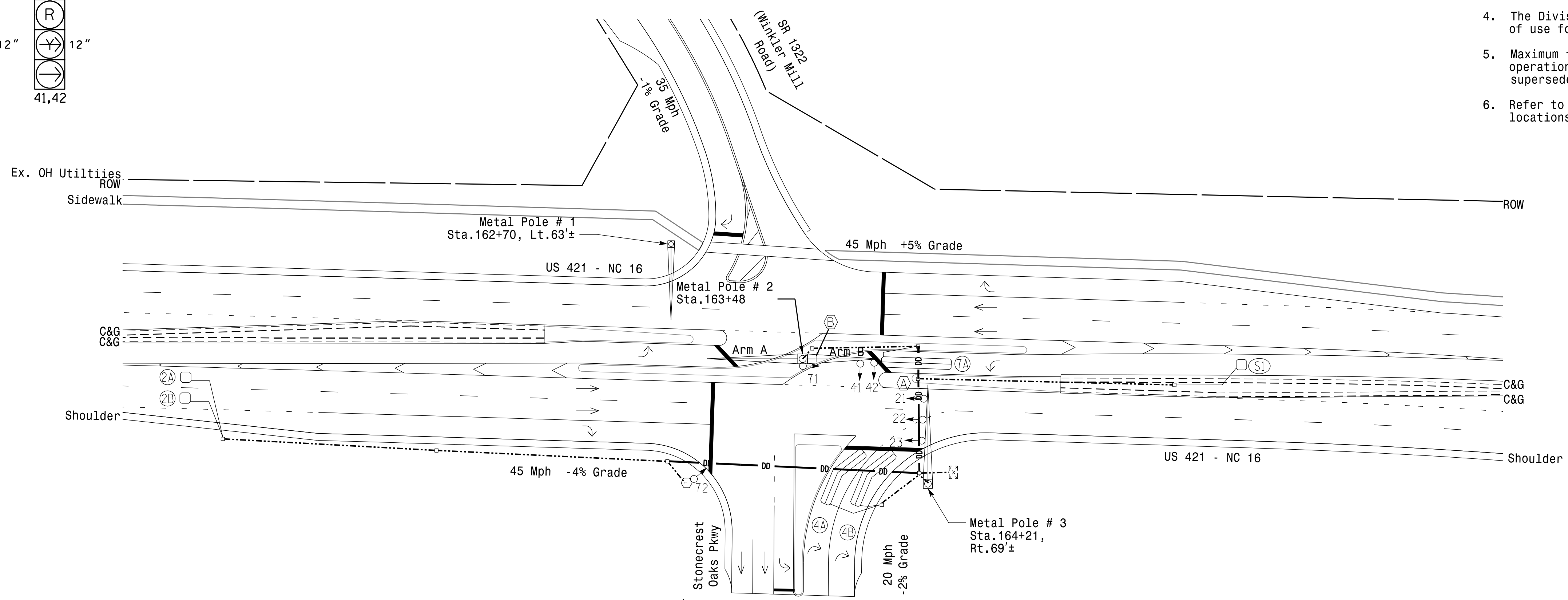
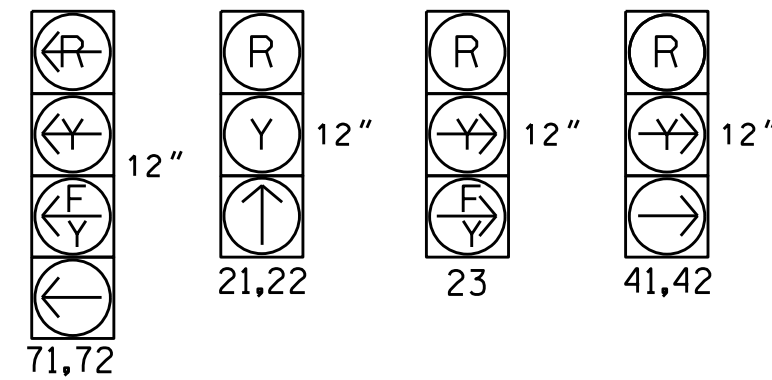
2 Phase Fully Actuated W/ Alternate Phasing Operation Wilkesboro Closed Loop System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Refer to Pavement Marking Plans for proposed stop bar locations.

SIGNAL FACE I.D.

All Heads L.E.D.

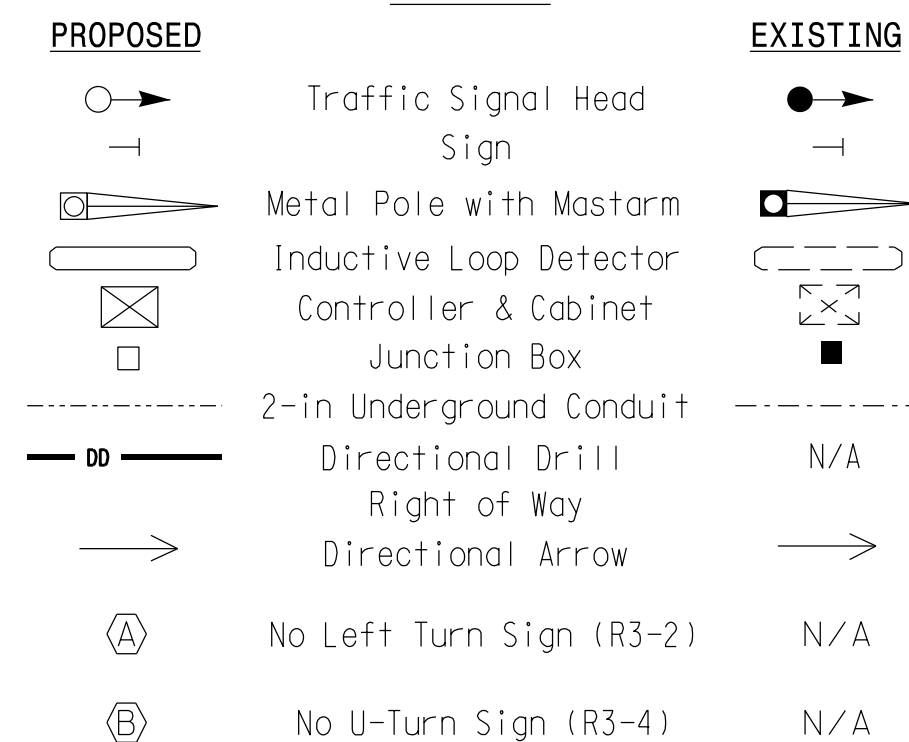


MAXTIME TIMING CHART

FEATURE	PHASE		
	2	4	7
Walk *	-	-	-
Ped Clear *	-	-	-
Min Green	12	7	7
Passage *	6.0	2.0	2.0
Max 1 *	60	30	30
Yellow Change	4.9	3.0	3.0
Red Clear	1.9	1.9	2.6
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.

LEGEND



New Installation - Final Design

US 421 - NC 16 at Stonecrest Oaks Pkwy	
Division 11 Wilkes County Wilkesboro	
PLAN DATE: May 2023	REVIEWED BY: M. Stygles
PREPARED BY: S.R. Chiluka	REVIEWED BY: J. Ma
REVISIONS	INIT. DATE
SIGNATURE	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

STATE OF NORTH CAROLINA PROFESSIONAL ENGINEER S. R. CHILUKA 047250

5/24/2023

SIG. INVENTORY NO. 11-1465

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