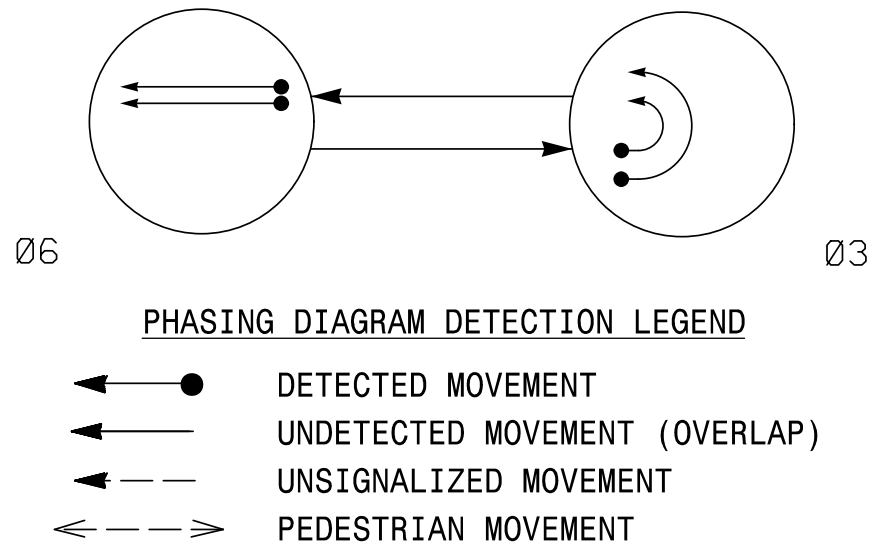
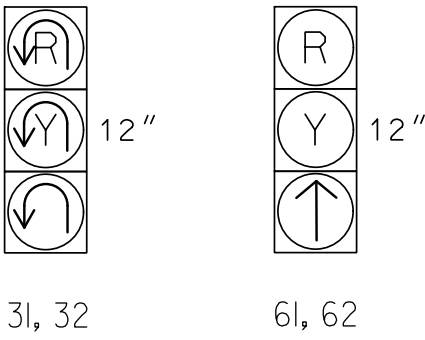


PHASING DIAGRAM



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 INITIAL	ADDED INITIAL CALL	DELAY DURING GREEN
3A	6X40	0	2-4-2	X	3	-	-	X	-	X
3B	6X40	0	2-4-2	X	3	-	-	X	-	X
6A	6X6	420	6	X	6	-	-	X	X	X
6B	6X6	420	6	X	6	-	-	X	X	X

2 Phase  
Fully Actuated  
US 321 Closed Loop System

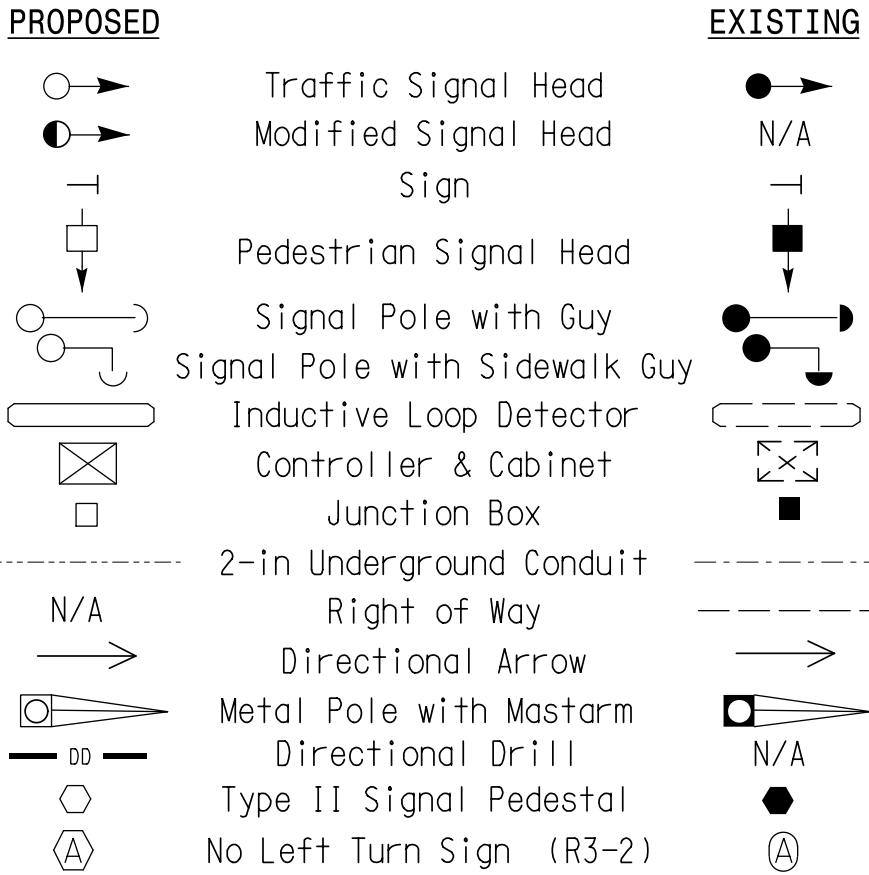
NOTES

- 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.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Pedestal mounted signal heads shall be mounted a minimum of 8' above the high point of the roadway surface elevation.
- Refer to Roadway and/or Pavement Marking plans for stop bar locations.

MAXTIME TIMING CHART		
FEATURE	PHASE	
	3	6
Walk *	-	-
Ped Clear *	-	-
Min Green	7	14
Passage *	2.0	6.0
Max 1 *	20	90
Yellow Change	3.0	5.2
Red Clear	5.3	1.0
Added Initial *	-	1.5
Maximum Initial *	-	46
Time Before Reduction *	-	15
Time To Reduce *	-	30
Minimum Gap	-	3.4
Advance Walk	-	-
Non Lock Detector	X	-
Vehicle Recall	-	MIN RECALL
Dual Entry	-	-

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

LEGEND



New Installation

**STV Engineers, Inc.**  
900 West Trade St., Suite 715  
Charlotte, NC 28202  
(704) 372-1885  
NC License Number F-0991

Prepared For the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 321 (Hickory Boulevard) NB  
at U-Turn South of  
SR 1108 (Mission Road)/  
SR 1108 (Lower Cedar Valley Road)

Division 11 Caldwell County Hudson

PLAN DATE:	Sept 2023	REVIEWED BY:	D.J. Darity
PREPARED BY:	J.T. Grimm	REVIEWED BY:	T.M. Woody
REVISIONS		INIT.	DATE

DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED

DocuSigned by:  
**Donald J. Darity**  
10/18/2023  
DATE  
SIC. INVENTORY NO. 11-1454