DEFAULT F TABLE OF O	_	-			
	Р	HAS	Ε		
SIGNAL FACE	Ø2	Ø7	ᄔᆜᄯᅈᅩ		
21, 22	1	R	\succ		
71, 72	F		√ Y		

ALTERNATE PHASING

TABLE OF OPERATION

SIGNAL

FACE

21, 22

71, 72

PHASE

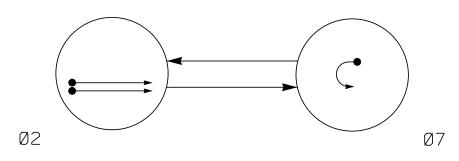
All Heads L.E.D.							
12"	R Y 12" 21, 22						
74 70							

SIGNAL FACE I.D.

71, 72

MAXTIME DETECTOR INSTALLATION CHART												
DETECTOR					PROGRAMMING							
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD

ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

UNSIGNALIZED MOVEMENT

 $<\!\!--\!\!>$ PEDESTRIAN MOVEMENT

DETECTOR SIZE FROM L00P (FT) STOPBAR (FT) 6X6 | 420 | 5 | X | 2 | - | - | X | X | X | - | X 6X6 | 420 | 5 | X | 2 | - | - | X | X | X | - | X 6X40 0 2-4-2 X 7 *15.0 - X - X - X

* Disable Delay during Alternate Phasing operation.

55 MPH -2% Grade US 321 (Hickory Boulevard) 55 MPH +1% Grade US 321 (Hickory Boulevard) Metal Pole with Mast Arm #1

MAXTIME T	IMING	CHART				
FEATURE	PHASE					
FEATURE	2	7				
Walk *	_	_				
Ped Clear *	_	_				
Min Green	14	7				
Passage *	6.0	2.0				
Max 1 *	90	20				
Yellow Change	5.1	3.0				
Red Clear	1.0	4.4				
Added Initial *	1.5	_				
Maximum Initial *	46	_				
Time Before Reduction *	15	_				
Time To Reduce *	30	_				
Minimum Gap	3.4	_				
Advance Walk	_	_				
Non Lock Detector	_	Х				
Vehicle Recall	MIN RECALL	_				
Dual Entry	_	_				

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.

New Installation

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

PROPOSED

Division 11 Caldwell County Sept 2023 REVIEWED BY: D.J. Darity J.T. Grimm | REVIEWED BY: T.M. Moody REVISIONS INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

SIGNATURES COMPLETED

EXISTING

●

Donald J. Darity 10/18/2023

—589FSPERIATEBRE DATE SIG. INVENTORY NO. ||-|453

STV Engineers, Inc.

900 West Trade St., Suite 715 Charlotte, NC 28202 (704) 372-1885

NC License Number F-0991

Sta. 556+84 +/- -L-81' LT +/-

'50 N.Greenfield Pkwy,Garner,NC 27529 PREPARED BY:

dated January 2024 and "Standard Specifications for Roads and Structures" 2. Do not program signal for late night flashing operation unless otherwise

PROJECT REFERENCE NO.

U-4700 CC

directed by the Engineer. 3. Set all detector units to presence mode.

dated January 2024.

2 Phase

Fully Actuated with Alternate Phasing Operation

US 321 Closed Loop System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT"

4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.

5. The Division Traffic Engineer will determine the hours of use for each phasing plan.

6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

7. Pedestal mounted signal heads shall be mounted a minimum of 8' above the high point of the roadway surface elevation.

LEGEND

Traffic Signal Head

Modified Signal Head

Sign

Pedestrian Signal Head

Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector

Controller & Cabinet

Junction Box

Right of Way Directional Arrow Metal Pole with Mastarm Directional Drill Type II Signal Pedestal No Left Turn Sign (R3-2)

2-in Underground Conduit -----

8. Refer to Roadway and/or Pavement Marking plans for stop bar locations.