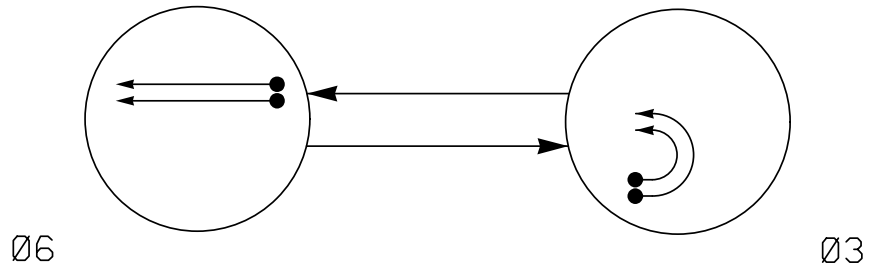


PHASING DIAGRAM



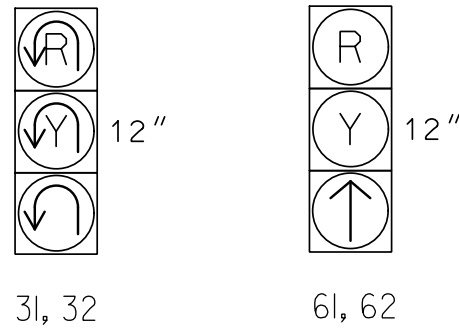
PHASING DIAGRAM DETECTION LEGEND

- ←● DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- ←- UN SIGNALIZED MOVEMENT
- ←- - - PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE		
	06	03	FLASH
31, 32	R	R	R
61, 62	↑	R	R

SIGNAL FACE I.D.

All Heads L.E.D.

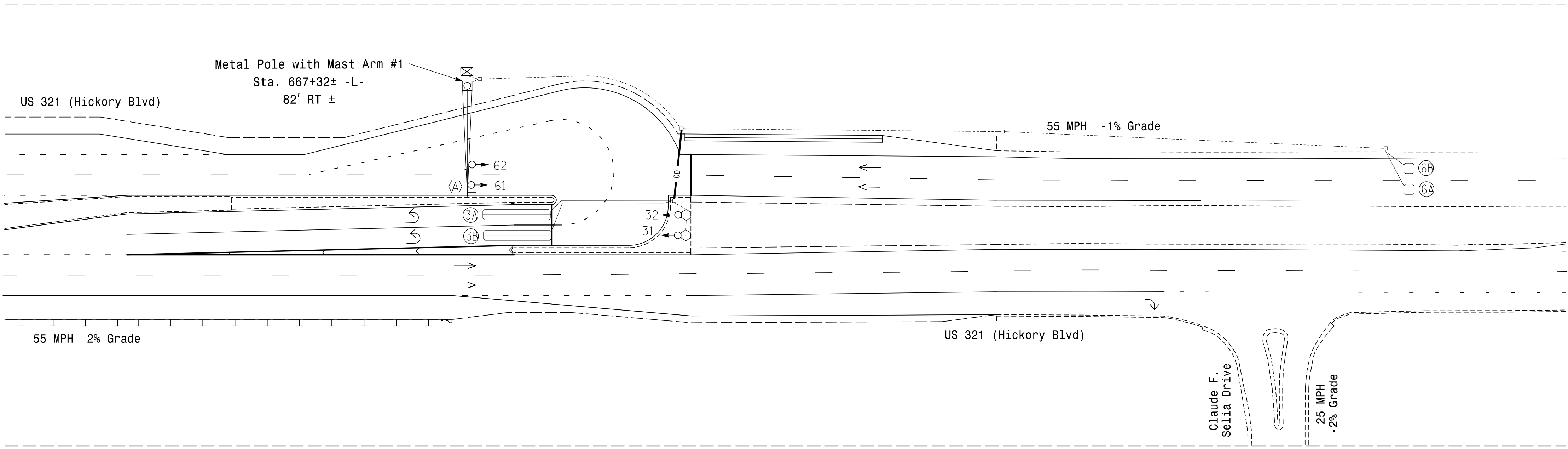


MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL DELAY DURING GREEN	NEW CARD
3A	6X40	0	2-4-2	X	3	-	-	X	-	X	-
3B	6X40	0	2-4-2	X	3	-	-	X	-	X	-
6A	6X6	420	6	X	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 at 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	5.3
Red Clear	5.2	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

- | PROPOSED | EXISTING |
|----------------------------------|----------|
| ○→ Traffic Signal Head | ●→ N/A |
| ●→ Modified Signal Head | N/A |
| ⊥ Sign | ⊥ |
| ⊥ Pedestrian Signal Head | ⊥ |
| ○→ Signal Pole with Guy | ●→ |
| ○→ Signal Pole with Sidewalk Guy | ●→ |
| ⊥ Inductive Loop Detector | ⊥ |
| ⊥ Controller & Cabinet | ⊥ |
| ⊥ Junction Box | ⊥ |
| ⊥ 2-in Underground Conduit | ⊥ |
| N/A Right of Way | ⊥ |
| → Directional Arrow | → |
| ○→ Metal Pole with Mastarm | ○→ N/A |
| → Directional Drill | N/A |
| ○ Type II Signal Pedestal | ● |
| ⊥ No Left Turn Sign (R3-2) | ⊥ |

New Installation

stv
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(704) 372-1885
NC License Number F-0991

Prepared for the Offices of:
Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N. Greenfield Pkwy, Garner, NC 27529

US 321 (Hickory Boulevard) NB
at
U-Turn Bulb-Out South of
SR 1160 (Mt Herman Road)
Division 11 Caldwell County Hudson
PLAN DATE: June 2024 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

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 040329
RENT M. MOODY
DocuSigned by:
rent Moody
6/10/2024
SIC. INVENTORY NO. 11-1457