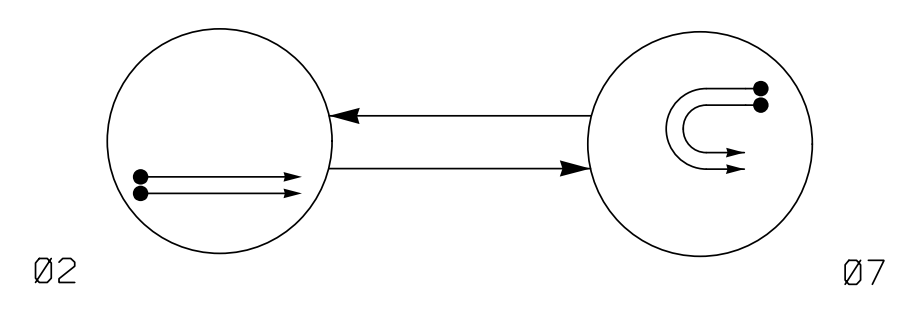


PHASING DIAGRAM



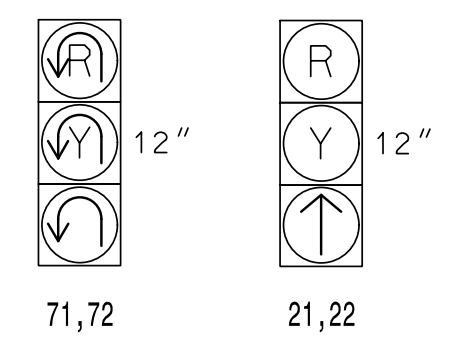
- PHASING DIAGRAM DETECTION LEGEND**
- ←● DETECTED MOVEMENT
 - ← UNDETECTED MOVEMENT (OVERLAP)
 - ←- UN SIGNALIZED MOVEMENT
 - ←- - PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø2	Ø7	FLASH
21,22	↑	R	Y
71,72	↻	↻	↻

SIGNAL FACE I.D.

All Heads L.E.D.



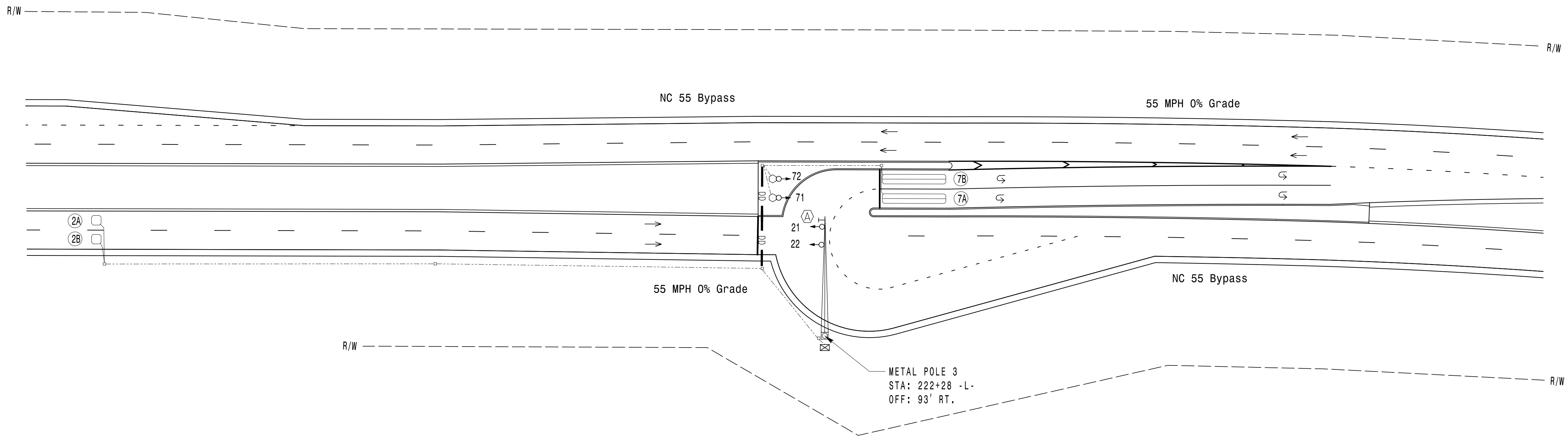
MAXTIME DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL CALL	DELAY DURING GREEN	NEW CARD	
2A	6X6	420	6	X	2	-	-	X	X	X	-	X
2B	6X6	420	6	X	2	-	-	X	X	X	-	X
7A	6X40	0	2-4-2	X	7	-	-	X	-	X	-	X
7B	6X40	0	2-4-2	X	7	-	-	X	-	X	-	X

2 Phase Fully Actuated NC 55 Byp. 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. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
6. Closed loop system data: Controller Asset #1404.



MAXTIME TIMING CHART

FEATURE	PHASE	
	2	7
Walk *	-	-
Ped Clear *	-	-
Min Green	14	7
Passage *	6.0	2.0
Max I *	90	30
Yellow Change	5.2	3.0
Red Clear	1.0	4.8
Added Initial *	1.8	-
Maximum Initial *	46	-
Time Before Reduction *	15	-
Time To Reduce *	45	-
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 2 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	— Sign
□ → Pedestrian Signal Head With Push Button & Sign	□ → Metal Pole with Mastarm
○ → Type II Signal Pedestal	○ → Inductive Loop Detector
⊠ → Controller & Cabinet	⊠ → Junction Box
□ → Directional Drill	□ → N/A
--- 2-in Underground Conduit	--- Right of Way
N/A → Directional Arrow	→ No Left Turn Sign (R3-2)
Ⓐ →	Ⓐ →

New Installation

PLANS PREPARED IN THE OFFICE OF:
Kimley-Horn
 NC License #F-0102
 421 Fayetteville Street, Suite 600
 Raleigh, NC 27601
 (919) 677-2000

NC 55 Bypass Northbound at U-Turn South of NC 210

Division 6 Harnett County Angier

PLAN DATE: August 2022 REVIEWED BY: KP Baumann

PREPARED BY: CF Davis REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

SEAL 044434

ENGINEER KEVIN P. BAUMANN

DocuSigned by: *Kevin P. Baumann* 6/22/2023

SIGNATURE

SIG. INVENTORY NO. 06-1404

6/21/2023 2:49:03 PM cr01g.davis ***K:\In\ey-horn.com\CL_RAL\RAL_Roadway\011036479 - R-5705A - NC 55\Signal\554 - Signal Design - MaxTime4.0 06-1404.dgn