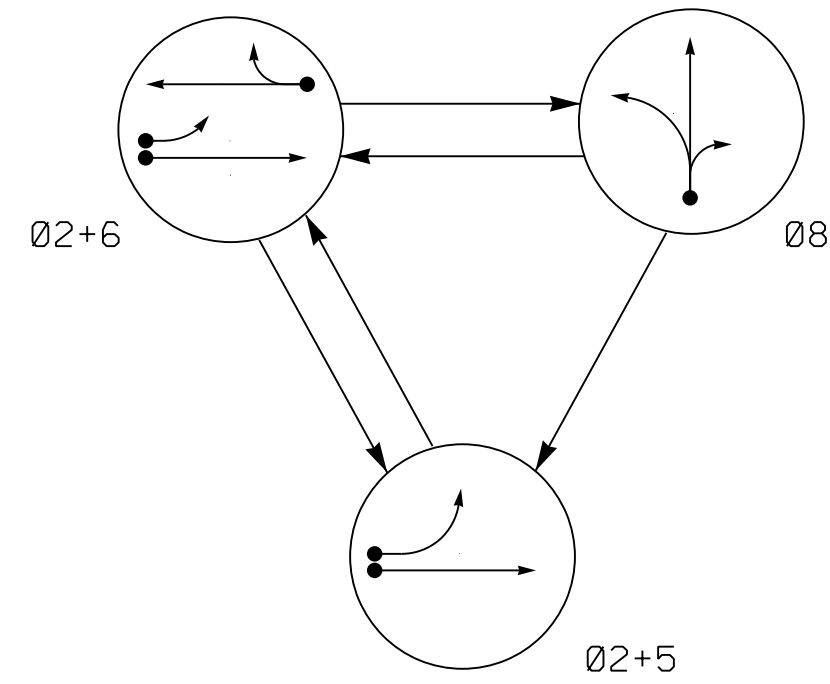


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- - - UNSIGNALIZED MOVEMENT
- ⇄ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE			
	02+5	02+6	08	FLASH
21,22	G	G	R	Y
51	-	F	R	Y
61,62	R	G	R	Y
81,82	R	R	G	R

MAXTIME DETECTOR INSTALLATION CHART

ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	
2A	6X6	70	*	*	2	-	-	X	-	X	-	*
5A	6X40	0	*	*	5	15.0	-	X	-	X	-	*
6A	6X6	70	*	*	6	-	-	X	-	X	-	*
8A	6X40	0	*	*	8	10.0	-	X	-	X	-	*

* VIDEO DETECTION ZONE

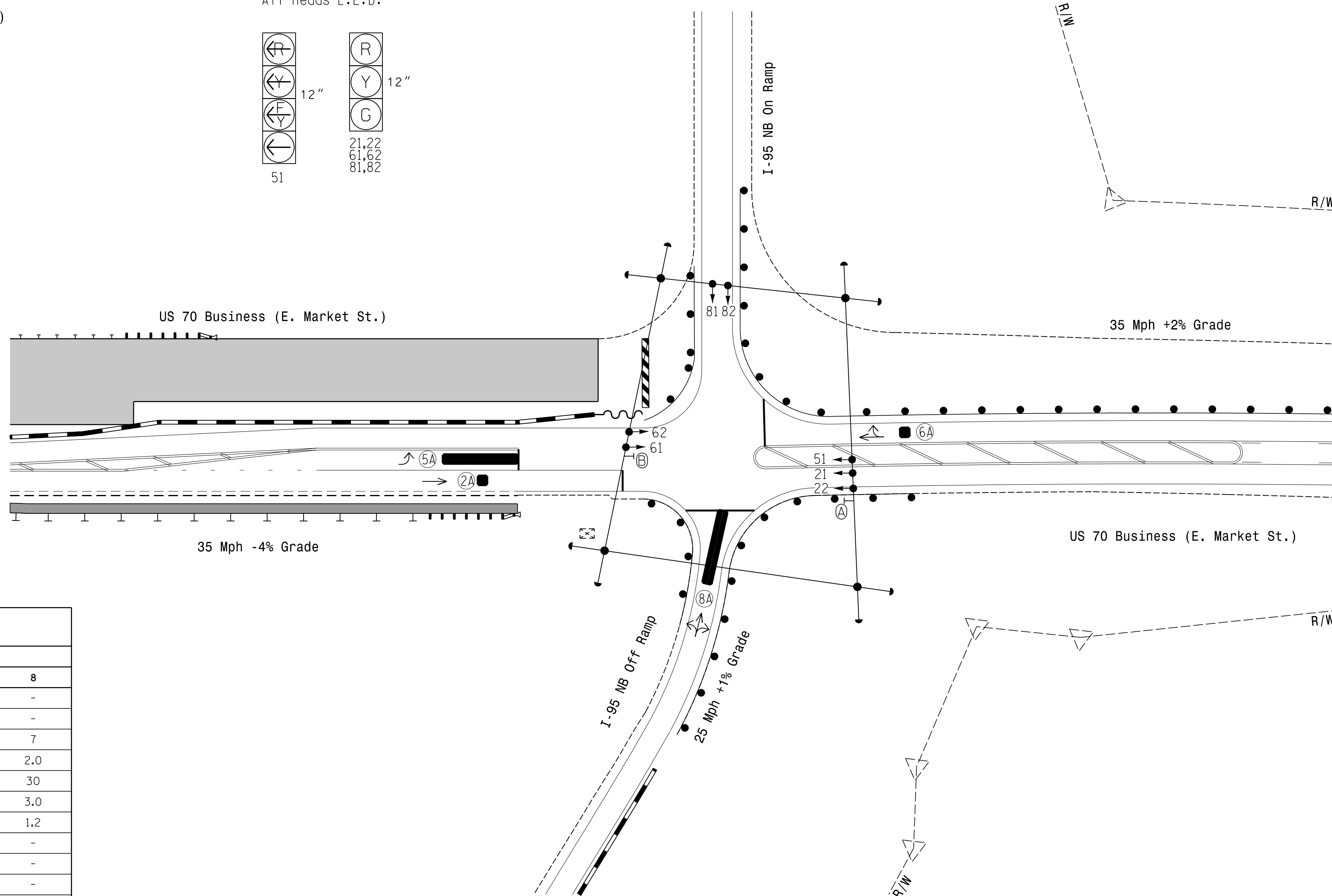
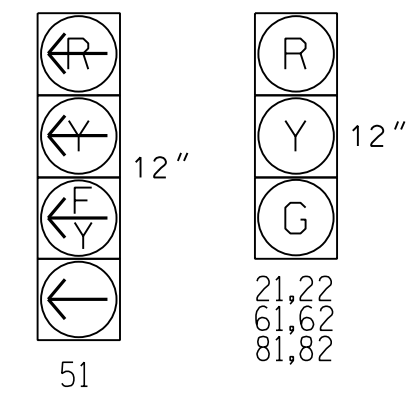
3 Phase Fully Actuated (Isolated)

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.
- Phase 5 may be lagged.
- Reposition existing signal heads numbered 21,22,51,61,62,81, and 82.
- Set all detector units to presence mode.
- See TMP for pavement marking details.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.

SIGNAL FACE I.D.

All Heads L.E.D.



MAXTIME TIMING CHART

FEATURE	PHASE			
	2	5	6	8
Walk *	-	-	-	-
Ped Clear *	-	-	-	-
Min Green	10	7	10	7
Passage *	3.0	2.0	3.0	2.0
Max 1 *	60	20	60	30
Yellow Change	4.1	3.0	4.1	3.0
Red Clear	2.6	3.3	2.6	1.2
Added Initial *	-	-	-	-
Maximum Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Non Lock Detector	-	X	-	X
Vehicle Recall	MIN RECALL	-	MIN RECALL	-
Dual Entry	-	-	-	-

* These values may be field adjusted. Do not adjust Min Green and Passage 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

PROPOSED	EXISTING
○ Traffic Signal Head	● N/A
◐ Modified Signal Head	-
⊥ Sign	⊥
⊥ Pedestrian Signal Head With Push Button & Sign	⊥
○ 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	→
(A) No Right Turn Sign (R3-1)	(A)
(B) No Left Turn Sign (R3-2)	(B)
Construction Zone Drums	Construction Zone
Video Detection Area	Barricades
Portable Concrete Barrier	Portable Concrete Barrier

New Location - Temp Design 3 - TMP Phase III Steps 1-2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

 750 N. Greenfield Pkwy, Garner, NC 27529

US 70 Business (E. Market St.) at I-95 NB Ramps

Division 04 Johnston County Smithfield
 PLAN DATE: September 2023 REVIEWED BY: DT Sears
 PREPARED BY: WP Erickson-Jones REVIEWED BY:

SEAL

 DAVID T. SEARS
 ENGINEER

Scale: 1" = 40'

Revisions table with columns: REVISIONS, INIT., DATE

RK&K
 P: (919) 878-9550
 8801 Six Forks Road Suite 700 | Raleigh, North Carolina 27615-2965
 NC License No. F-0112
 Engineers | Construction Managers | Planners | Scientists
 www.rk.com
 Responsive People | Creative Solutions