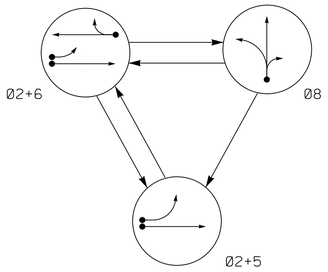
PROJECT REFERENCE NO.	SHEET NO.
I-5972	Sig. 3.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+5	PHASE Ø2+6	PHASE Ø8	PHASE FLASH
21,22	G	G	R	Y
51	←	~~F Y~~	~~R~~	~~Y~~
61,62	R	G	R	Y
81,82	R	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.

MAXTIME DETECTOR INSTALLATION CHART

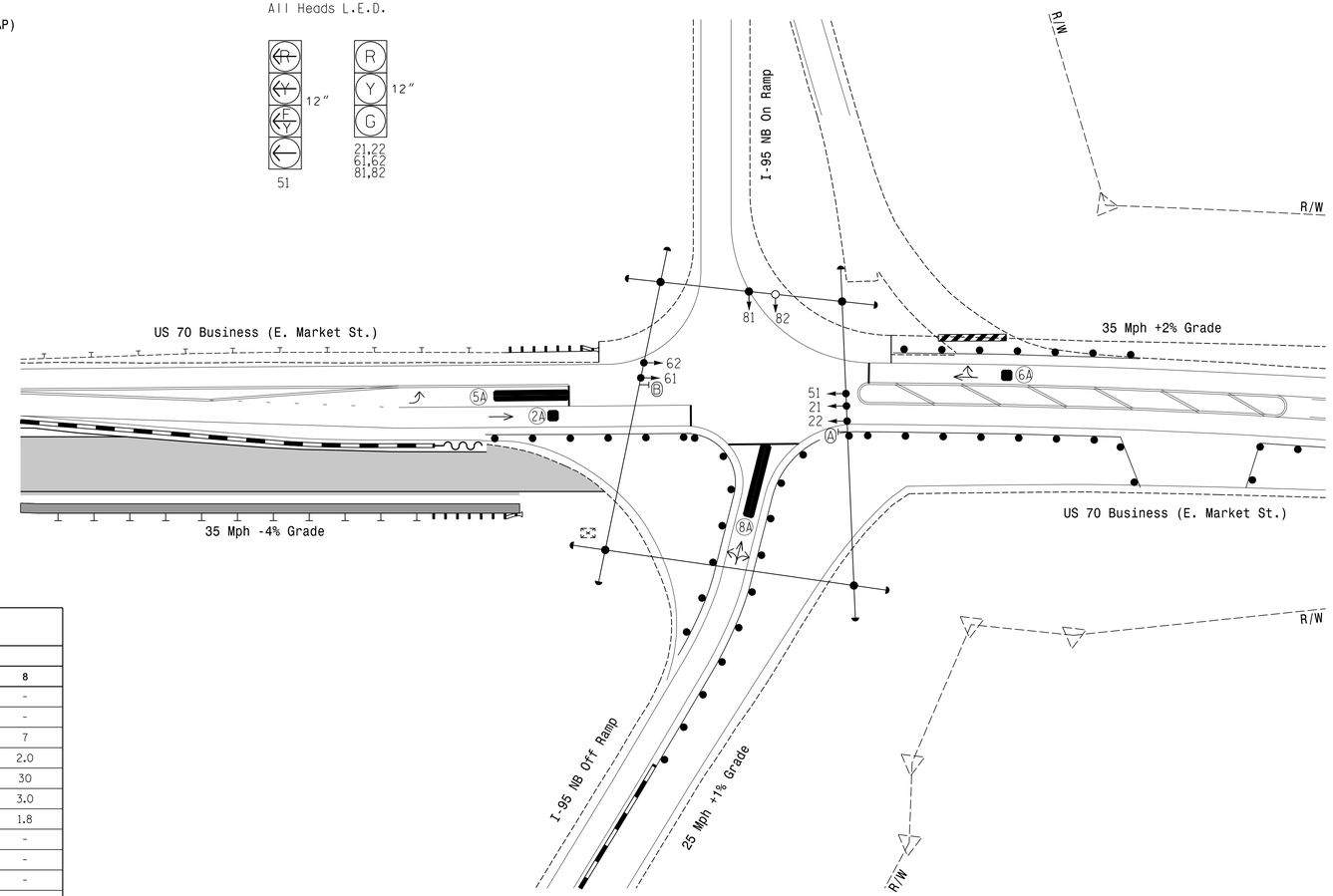
DETECTOR					PROGRAMMING						
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2A	6X6	70	✳	✳	2	-	-	X	-	X	-	✳
5A	6X40	0	✳	✳	5	15.0	-	X	-	X	-	✳
					2	-	-	X	-	X	-	✳
6A	6X6	70	✳	✳	6	-	-	X	-	X	-	✳
8A	6X40	0	✳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

✳ VIDEO DETECTION ZONE

3 Phase
Fully Actuated
(Isolated)

NOTES

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. Phase 5 may be lagged.
4. Reposition existing signal head numbered 81.
5. Set all detector units to presence mode.
6. See TMP for pavement marking details.
7. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.



LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	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	→
Ⓐ	No Right Turn Sign (R3-1)	Ⓐ
Ⓑ	No Left Turn Sign (R3-2)	Ⓑ
●▭	Construction Zone Drums	●▭
▭	Construction Zone	▭
▬	Video Detection Area	▬
▨	Barricades	▨
▬	Portable Concrete Barrier	▬

MAXTIME TIMING CHART

FEATURE	PHASE 2	PHASE 5	PHASE 6	PHASE 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	3.1	2.6	3.1	1.8
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.

New Location - Temp Design 2 - TMP Phase II Step 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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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 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: _____

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 044558 ENGINEER DAVID T. SEARS

DocuSigned by: David T Sears 9/19/2023
0691B3F2BE5741E
SIGNATURE DATE

SIG. INVENTORY NO. 04-14537T2

9/19/2023
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dsears