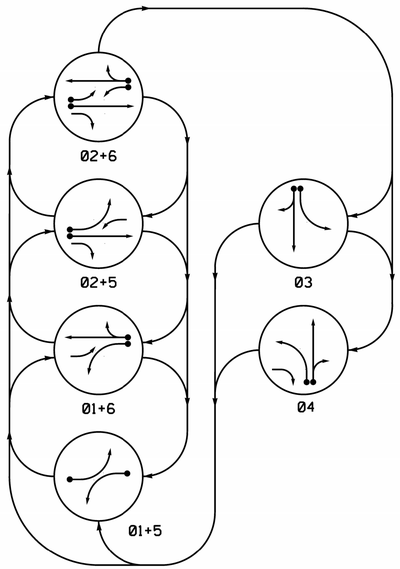
PROJECT REFERENCE NO.	SHEET NO.
U-5824	Sig. 8.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

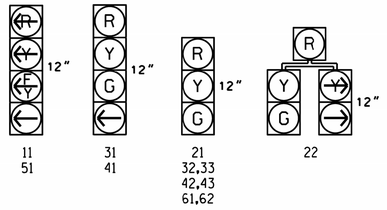
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	01+6	02+5	02+6	03	04	FLASH
11	—	—	FY	FY	R	R	~~Y~~
21	R	R	G	G	R	R	Y
22	R	R	G	G	R	R/—	Y
31	R	R	R	R	G	R	R
32,33	R	R	R	R	G	R	R
41	R	R	R	R	R	G	R
42,43	R	R	R	R	R	G	R
51	—	FY	—	FY	R	R	~~Y~~
61,62	R	G	R	G	R	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.



MAXTIME DETECTOR INSTALLATION CHART

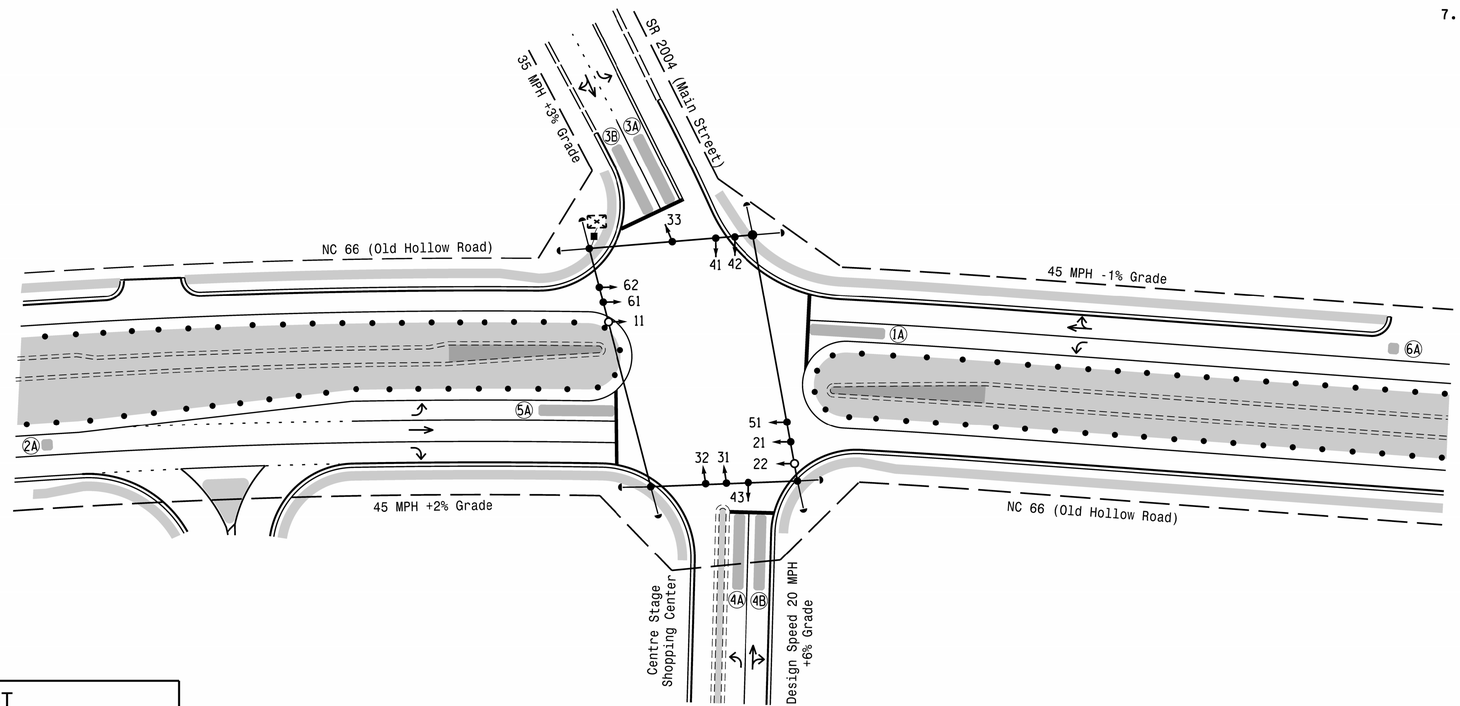
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A ✳	6X40	0	✳	✳	1	10.0	-	X	-	X	-	✳
					6	3.0	-	X	-	X	X	✳
2A ✳	6X6	300	✳	✳	2	-	-	X	X	X	-	✳
3A ✳	6X40	0	✳	✳	3	3.0	-	X	-	X	-	✳
3B ✳	6X40	0	✳	✳	3	10.0	-	X	-	X	-	✳
4A ✳	6X40	0	✳	✳	4	-	-	X	-	X	-	✳
4B ✳	6X40	0	✳	✳	4	10.0	-	X	-	X	-	✳
5A ✳	6X40	0	✳	✳	5	10.0	-	X	-	X	-	✳
					2	3.0	-	X	-	X	X	✳
6A ✳	6X6	300	✳	✳	6	-	-	X	X	X	-	✳

✳ Video Detection Zone

6 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 1 and/or phase 5 may be lagged.
4. The order of phase 3 and phase 4 may be reversed.
5. Set all detector units to presence mode.
6. Reposition existing signal heads numbered 31, 32, 61, and 62.
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	
	Video Detection Zone	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Construction Zone	
	Construction Zone Drums	

MAXTIME TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6
Walk *	–	–	–	–	–	–
Ped Clear *	–	–	–	–	–	–
Min Green *	7	12	7	7	7	12
Passage *	2.0	6.0	2.0	2.0	2.0	6.0
Max 1 *	20	50	30	25	20	50
Yellow Change	3.0	4.6	3.7	3.0	3.0	4.6
Red Clear	3.5	2.0	3.0	3.7	3.3	2.0
Added Initial *	–	2.5	–	–	–	2.5
Maximum Initial *	–	34	–	–	–	34
Time Before Reduction *	–	15	–	–	–	15
Time To Reduce *	–	30	–	–	–	30
Minimum Gap	–	3.0	–	–	–	3.0
Advance Walk	–	–	–	–	–	–
Non Lock Detector	X	–	X	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.

Signal Upgrade - Temporary Design 3 (TMP Phase III - Step 1)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of:

SUMMIT
DESIGN AND ENGINEERING SERVICES

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

NC 66 (Old Hollow Road)
at
SR 2004 (Main Street) / Centre Stage Shopping Centre
Division 9 Forsyth County Walkertown

PLAN DATE: August 2023 REVIEWED BY: E. Sirgany
PREPARED BY: J. Smith REVIEWED BY:

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 018174 ENGINEER EDWARD W. SIRGANY

DocuSigned by: Edward W Sirgany 9/7/2023
DATE

SIG. INVENTORY NO. 09-058913