DocuSign Envelope ID: 76AEEEE8-F9B4-4C51-AB0B-242AF0C7BF1E

PROJECT REFERENCE NO.	SHEET NO.
BR-0041	Sig. 11.0

PHASING DIAGRAM

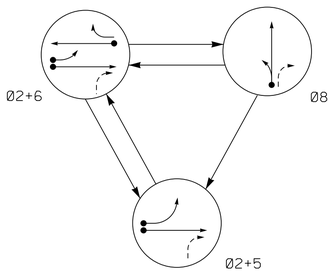


TABLE OF OPERATION

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

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	QUEUE	CALL	PASSAGE 2	SYSTEM LOOP	NEW CARD
2A*	6X6	300	*	*	2	-	-	X	X	-	X	-	-	*
5A*	6X40	0	*	*	5	15	-	X	-	-	X	-	-	*
					2	-	-	X	-	-	X	X	-	*
6A*	6X6	300	*	*	6	-	-	X	X	-	X	-	-	*
8A*	6X40	0	*	*	8	-	-	X	-	-	X	-	-	*

* Video Detection Zone

3 Phase
Fully Actuated
NC 87/SR 2817 (Barnes Street) CLS
Signal System #: D07-10_Reidsville

NOTES

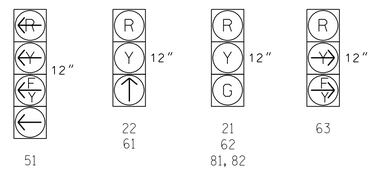
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 5 may be lagged.
4. Reposition all existing signal heads.
5. Reposition existing turn prohibition signs Ⓓ and Ⓔ.
6. Set all detector units to presence mode.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
8. Closed loop system data: Controller Asset #: 1675.

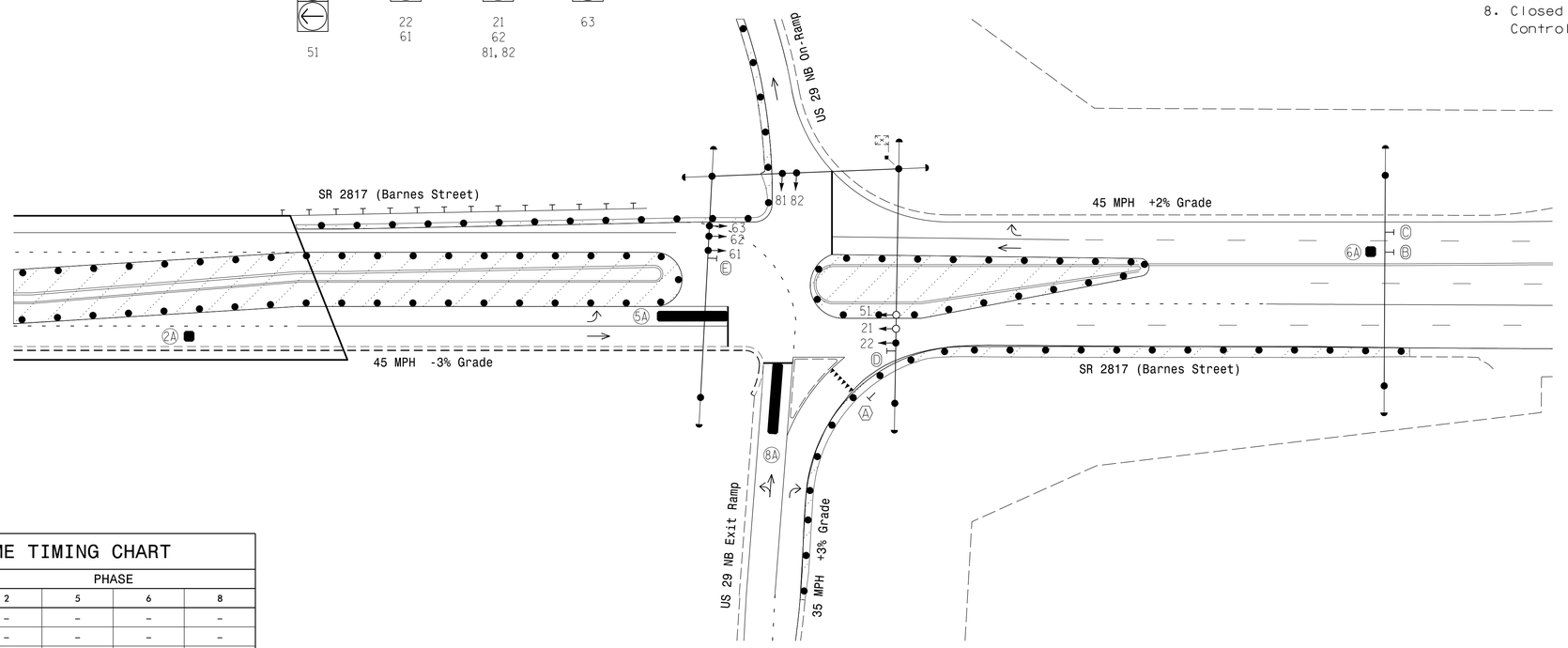
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.





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	
	Construction Zone Drums	
	Video Detection Zone	
	Construction Zone	
N/A	Guardrail	
Ⓐ	"YIELD" Sign (R1-2)	Ⓐ
Ⓑ	Through Arrow "ONLY" Sign (R3-5A)	Ⓑ
Ⓒ	Right Arrow "ONLY" Sign (R3-5R)	Ⓒ
Ⓓ	No Right Turn Sign (R3-1)	Ⓓ
Ⓔ	No U-Turn/No Left Turn Sign (R3-18)	Ⓔ

MAXTIME TIMING CHART

FEATURE	PHASE 2	PHASE 5	PHASE 6	PHASE 8
Walk *	–	–	–	–
Ped Clear *	–	–	–	–
Min Green	12	7	12	7
Passage *	6.0	2.0	6.0	2.0
Passage 2 *	3.0	–	–	–
Max 1 *	90	20	90	30
Yellow Change	4.8	3.0	4.8	3.7
Red Clear	1.0	2.6	1.0	1.7
Added Initial *	–	2.5	–	2.5
Maximum Initial *	–	34	–	34
Time Before Reduction *	–	20	–	20
Time To Reduce *	–	30	–	30
Minimum Gap	–	3.0	–	3.0
Advance Walk	–	–	–	–
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 Extension 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 - Temp Design 3 (TMP Phase III)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SR 2817 (Barnes Street)
at
US 29 NB Ramps

Division 7 Rockingham County Reidsville

PLAN DATE:	Jan 2023	REVIEWED BY:	H.M. Surti
PREPARED BY:	M.D. Tindal	REVIEWED BY:	

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 034481 ENGINEER HEMANG M. SURTI

DocuSigned by:
Hemang M. Surti 3/10/2023
(ENGINEER'S SIGNATURE)
SIG. INVENTORY NO. 07-1675T3

3/10/2023
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michael.cavenaugh