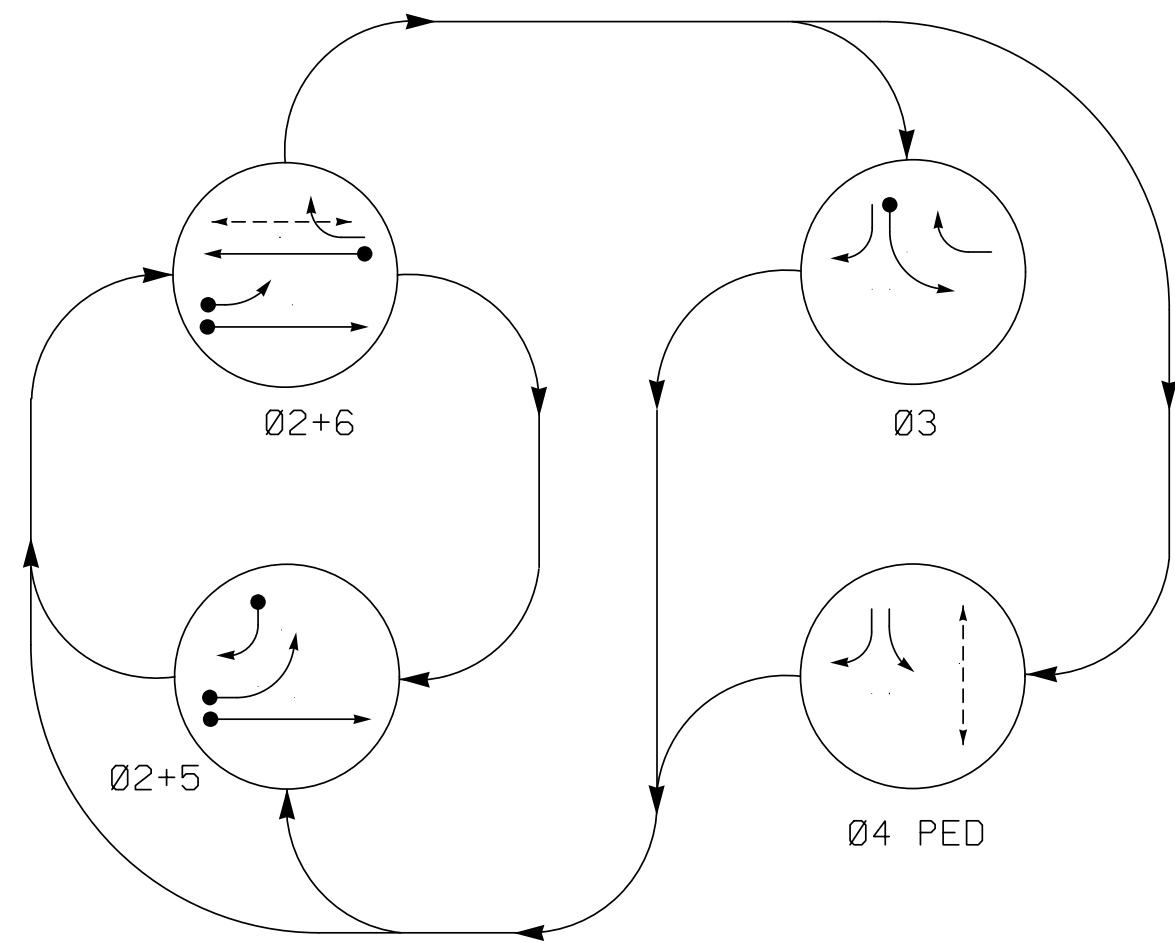
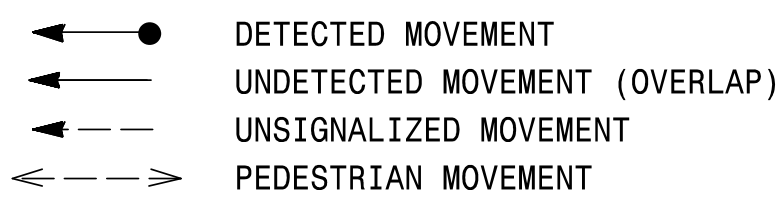


PHASING DIAGRAM

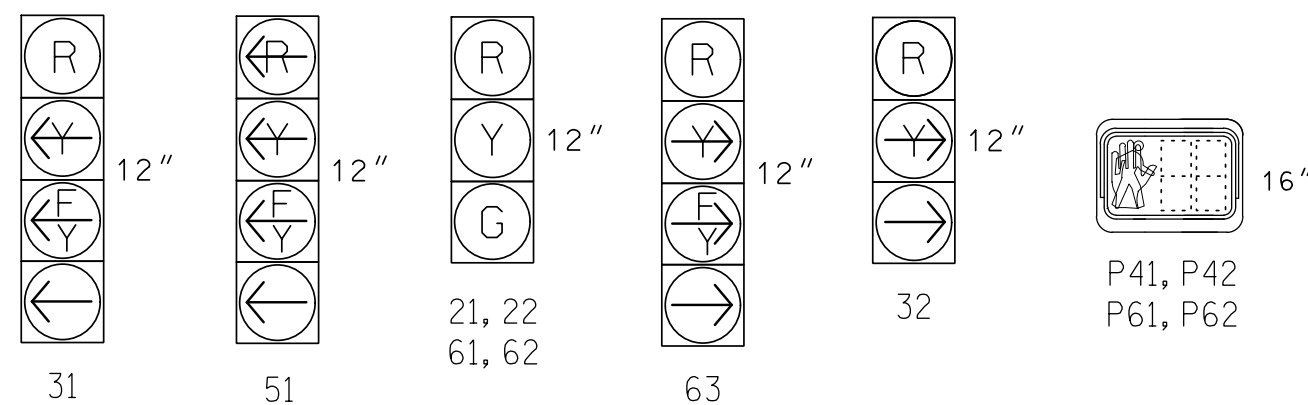


PHASING DIAGRAM DETECTION LEGEND



SIGNAL FACE I.D.

All Heads L.E.D.



MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING							
LOOP	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	300	5	X	2	-	-	X	X	X	-	X
3A	6X40	0	2-4-2	X	3	-	-	X	-	X	-	X
5A	6X40	0	2-4-2	X	5	15	-	X	-	X	-	X
					2	3	-	X	-	X	X	X
5B	6X40	0	2-4-2	X	5	15	-	X	-	X	-	X
6A	6X6	300	5	X	6	-	-	X	X	X	-	X

4 Phase
Fully Actuated
(Isolated)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Omit phase 3 during phase 4 on.
4. Phase 5 may be lagged.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
9. All metal poles, mast arms, and pedestal poles shall be black in color as specified in the project special provisions.

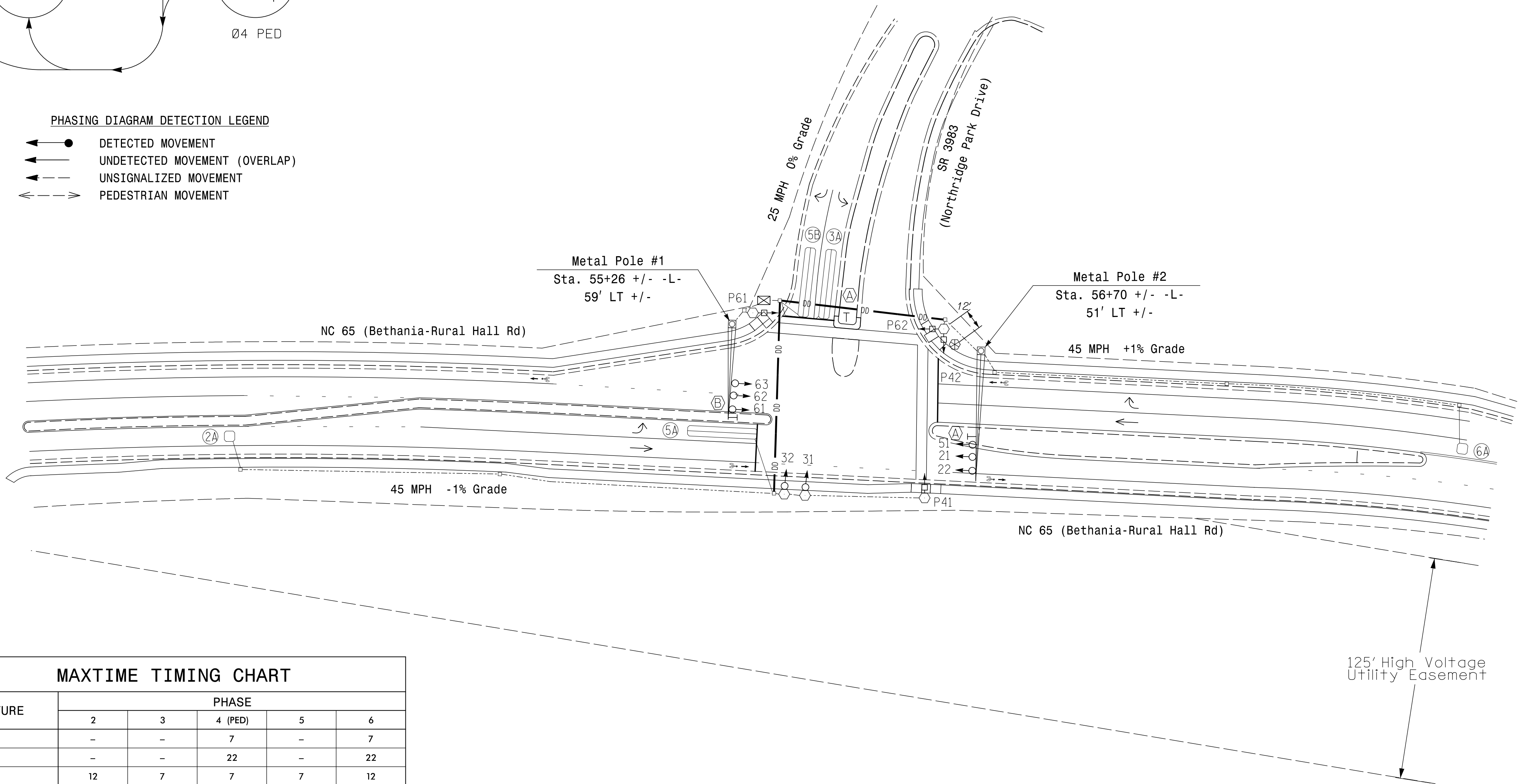
LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	Signal Pole 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	
	Directional Drill	N/A
	Type I Pushbutton Post	
	Type II Signal Pedestal	
	Metal Pole with Mastarm	
N/A	Curb Ramp	
	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	
	No U-Turn/No Left Turn Sign (R3-18)	

MAXTIME TIMING CHART

MAXTIME TIMING CHART					
FEATURE	PHASE				
	2	3	4 (PED)	5	6
Walk *	–	–	7	–	7
Ped Clear *	–	–	22	–	22
Min Green	12	7	7	7	12
Passage *	6.0	2.0	2.0	2.0	6.0
Max 1 *	90	25	25	20	90
Yellow Change	4.6	3.2	3.2	3.0	4.6
Red Clear	1.6	3.0	3.0	3.1	1.6
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	–	–	3.0	–	–
Non Lock Detector	–	X	X	X	–
Vehicle Recall	MIN RECALL	–	–	–	MIN RECALL
Dual Entry	–	–	–	–	–

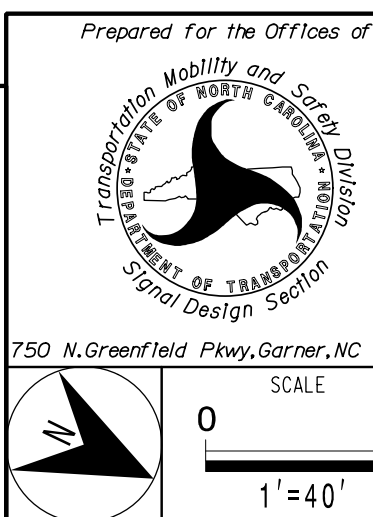
* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



New Installation



STV Engineers, Inc.
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Charlotte, NC 28202
(704) 372-1885
NC License Number F-0991



NC 65 (Bethania-Rural Hall Rd)
at
SR 3983 (Northridge Park Drive)

Division 9 Forsyth County Rural Hall

PLAN DATE: Sept 2023	REVIEWED BY: D.J. Darity
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PREPARED BY: R.L. Aristondo	REVIEWED BY: H.M. Surti
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REVISIONS	INIT.	DATE

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**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

