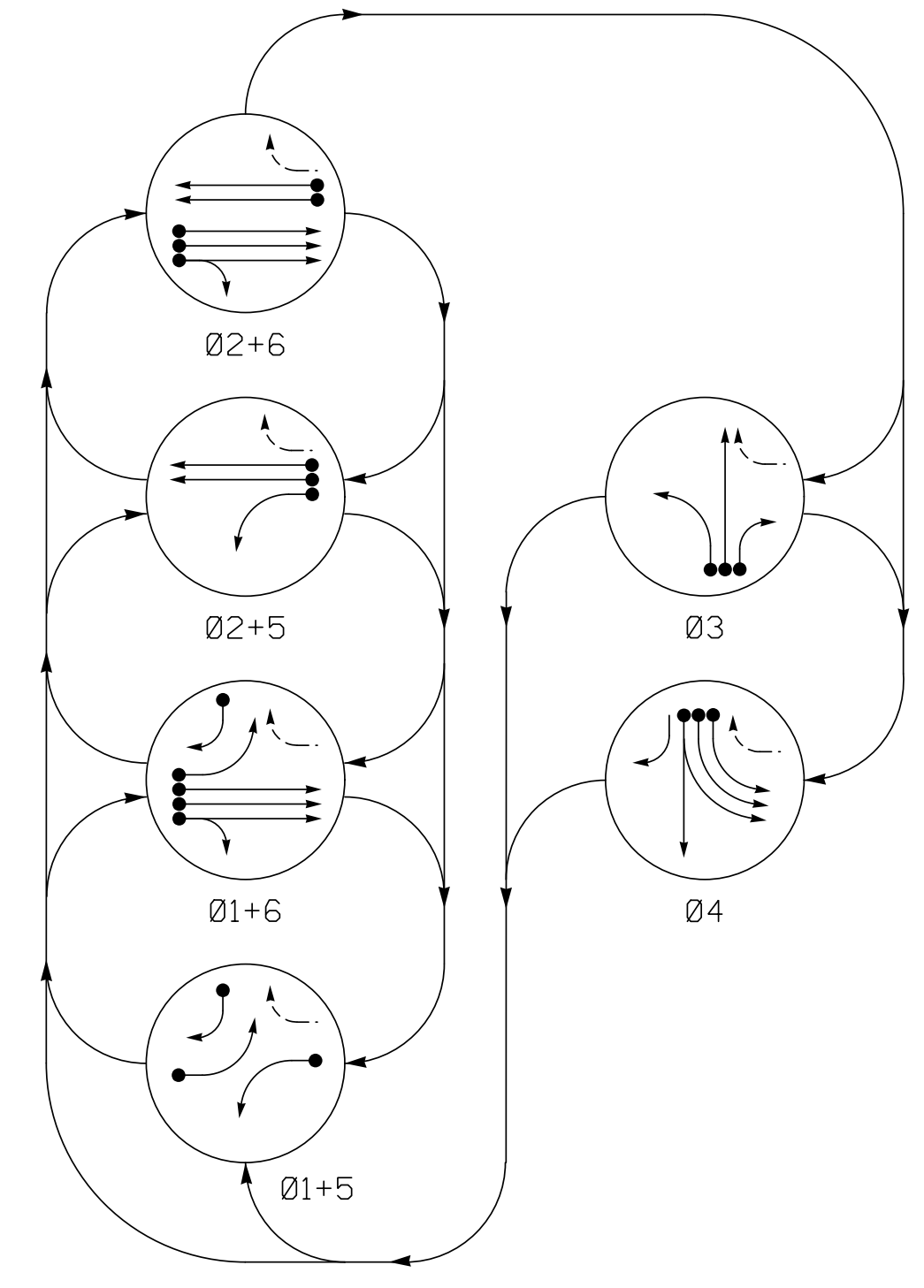


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

EV PREEMPT PHASES (Medium Priority)

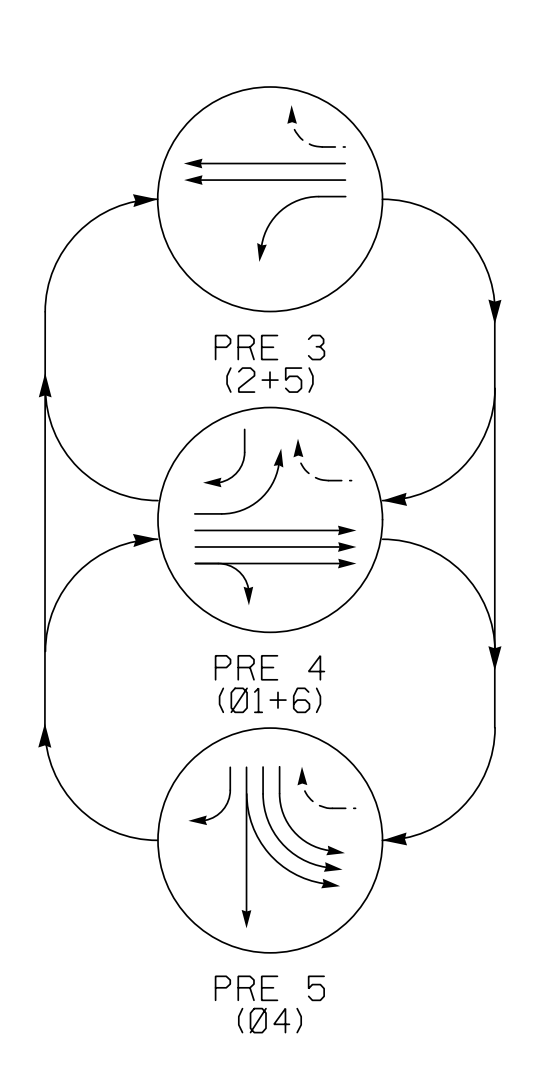
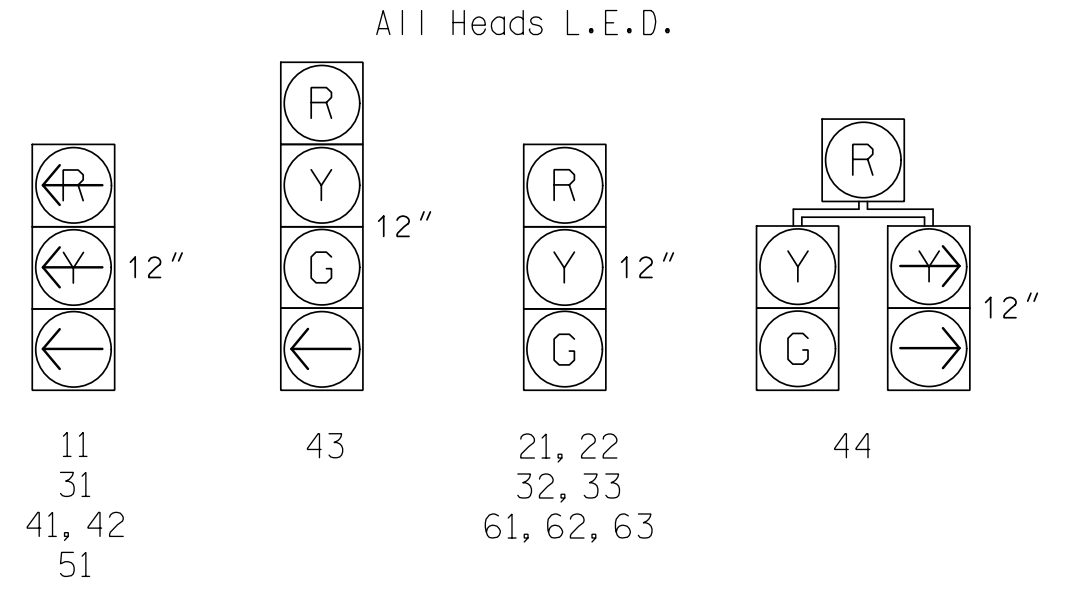


TABLE OF OPERATION

SIGNAL FACE	PHASE												
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 3	Ø 4	PRE 3	PRE 4	PRE 5	FLASH	FLASH	FLASH	
11	←	←	←	←	←	←	←	←	←	←	←	←	←
21, 22	R	R	G	G	R	R	G	R	R	Y			
31	←	←	←	←	←	←	←	←	←	←	←	←	←
32, 33	R	R	R	R	G	R	R	R	R	R			
41, 42	←	←	←	←	←	←	←	←	←	←	←	←	←
43	R	R	R	R	R	G	R	R	G	R			
44	←	←	←	←	←	←	←	←	←	←	←	←	←
51	←	←	←	←	←	←	←	←	←	←	←	←	←
61, 62, 63	R	G	R	G	R	R	R	G	R	Y			

SIGNAL FACE I.D.



ASC/3 DETECTOR INSTALLATION CHART

ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	LOOP	NEW CARD
1A	6x40	0	*	*	1	Yes	-	3	-	S	-	*
1B	6x40	0	*	*	1	Yes	-	15	-	S	-	*
2A	6x6	70	*	*	2	Yes	-	-	-	S	-	*
2B	6x6	70	*	*	2	Yes	-	-	-	S	-	*
3A	6x40	0	*	*	3	Yes	-	3	-	S	-	*
3B	6x40	0	*	*	3	Yes	-	-	-	S	-	*
3C	6x40	0	*	*	3	Yes	-	15	-	S	-	*
4A	6x40	0	*	*	4	Yes	-	-	-	S	-	*
4B	6x40	0	*	*	4	Yes	-	-	-	S	-	*
4C	6x40	0	*	*	4	Yes	-	-	-	S	-	*
5A	6x40	0	*	*	5	Yes	-	-	-	S	-	*
6A	6x6	70	*	*	6	Yes	-	-	-	S	-	*
6B	6x6	70	*	*	6	Yes	-	-	-	S	-	*
6C	6x6	70	*	*	6	Yes	-	-	-	S	-	*
S3	6X6	+165	*	*	-	No	-	-	-	N	X	*
S4	6X6	+165	*	*	-	No	-	-	-	N	X	*
S5	6X6	+165	*	*	-	No	-	-	-	N	X	*
S26	6X6	+135	*	*	-	No	-	-	-	N	X	*
S27	6X6	+135	*	*	-	No	-	-	-	N	X	*

* Video Detection Zone

6 Phase Fully Actuated w/ Emergency Vehicle Preemption SR 1007 (Mebane Oaks Rd) CLS Signal System: 10705

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. Reposition existing signal heads numbered 51, 21 and 22, and relocate existing sign C.
6. Set all detector units to presence mode.
7. This intersection features a GPS Emergency Vehicle Preemption system.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
9. Closed loop system data: Controller Asset #: 2098.

ASC/3 TIMING CHART

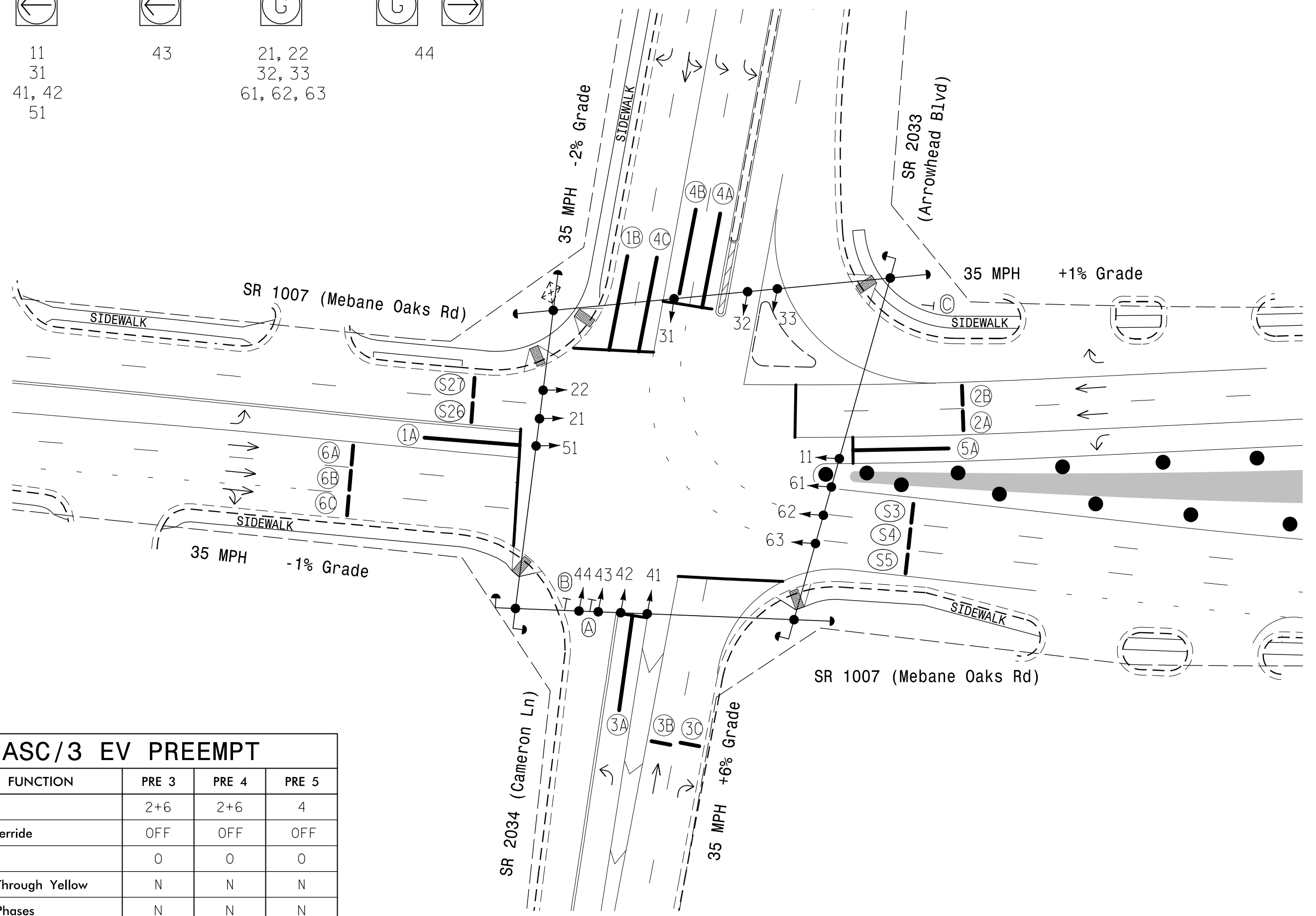
FEATURE	PHASE					
	1	2	3	4	5	6
Min Green *	7	10	7	7	7	10
Walk *	0	0	0	0	0	0
Ped Clear	0	0	0	0	0	0
Veh. Extension *	2.0	3.0	2.0	2.0	2.0	3.0
Max 1 *	30	60	15	50	15	60
Yellow	3.0	3.8	3.5	4.0	3.0	3.9
Red Clear	3.1	1.8	2.4	2.1	3.3	2.0
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-	-	-
Seconds / Actuation *	-	-	-	-	-	-
Max Initial *	-	-	-	-	-	1
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Locking Detector	-	X	-	-	-	X
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALL
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	X	X	X	X	X	X

* 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.

ASC/3 EV PREEMPT

FUNCTION	PRE 3	PRE 4	PRE 5
Exit Phase(s)	2+6	2+6	4
Preempt Override	OFF	OFF	OFF
Delay Time	0	0	0
Ped Clear Through Yellow	N	N	N
Terminate Phases	N	N	N
Entrance Walk	255*	255*	255*
Entrance Ped Clear	255*	255*	255*
Entrance Min Green	1	1	1
Entrance Yellow Clear	25.5*	25.5*	25.5*
Entrance Red Clear	25.5*	25.5*	25.5*
Min Dwell Time	7	7	7
Preempt Input Extension Time	2	2	2
Preempt Max Time	120	120	120
Exit Yellow Clear	25.5*	25.5*	25.5*
Exit Red Clear	25.5*	25.5*	25.5*

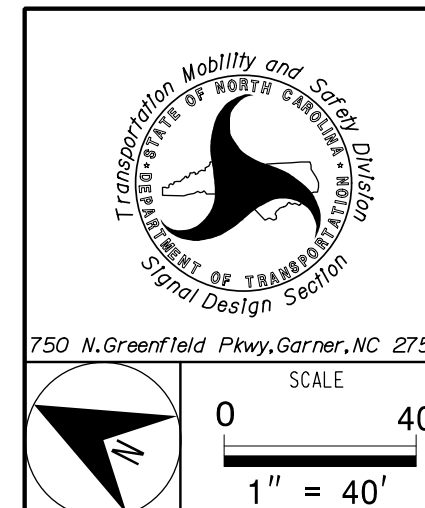
* Time defaults to time used for phase during normal operation



LEGEND

PROPOSED	EXISTING
○ →	● →
○ ⊥	● ⊥
○ ⊥ ⊥	● ⊥ ⊥
⊠	⊠
□	□
---	---
N/A	N/A
→	→
●	●
■	■
N/A	N/A
Ⓐ	Ⓐ
Ⓑ	Ⓑ
Ⓒ	Ⓒ

(TMP Phase III) Signal Upgrade - Temporary Design 3



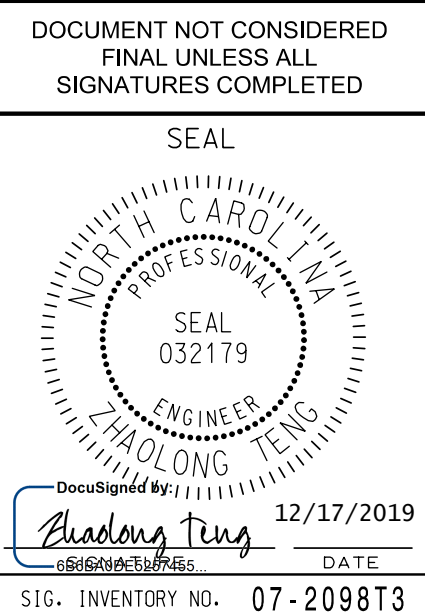
SR 1007 (Mebane Oaks Road) at SR 2033 (Arrowhead Boulevard) and SR 2034 (Cameron Lane)

Division 7 Alamance County Mebane

PLAN DATE: November 2019 REVIEWED BY: Z. "Gavin" Teng

PREPARED BY: Z. "Gavin" Teng REVIEWED BY:

REVISIONS	INIT.	DATE



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