PROJECT REFERENCE NO. I-5711 Sig 4.0

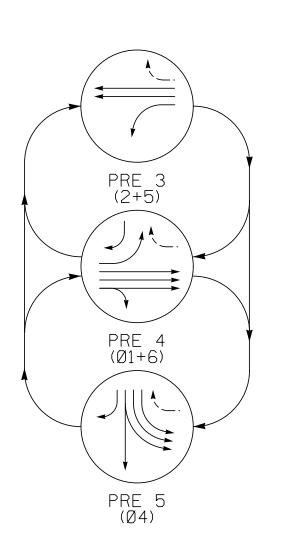
TABLE OF OPERATION

FACE

21, 22

32, 33

61, 62, 63



EV PREEMPT PHASES

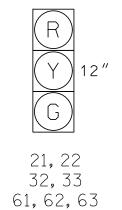
(Medium Priority)

SIGNAL	FACE	I.D.	
		·	

All Heads L.E.D.

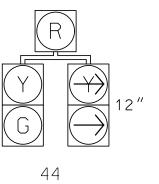
31

41, 42



SR 1007 (Mebane Oaks Rd)

-1% Grade

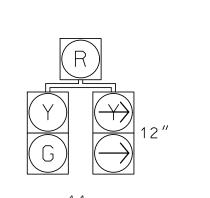


(52)

|- |-R|-R|-R|-R|-R|-R|-R

RGRGRRGRY

PHASE



15 * 6×40 * |*| 3 |Yes| 6×40 15 3 Yes 6×40 * |*| 4 |Yes| 6×40 6B 6x6 * 70 | * |*|

ASC/3 DETECTOR INSTALLATION CHART

PROGRAMMING

+1% Grade

+165 | * +165 * * |N|X|*6X6 | +165 | * | * | - No -| N | X | * 6X6 | +130 | * | * | - No -- | N | X | * S27 6X6 +130 * * - N X * · | No | -

SR 1007 (Mebane Oaks Rd)

* Video Detection Zone

DETECTOR

ZONE

DISTANCE

FROM

STOPBAR

1A | 6x40 | 0 | * |*| 1 |Yes|

TURNS

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.
- 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.

PROPOSED

ASC/3 TIMING CHART								
	PHASE							
FEATURE	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	2.9	1.7	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 *	-	-	-	-	-	-		
Time Before Reduction *	-	_	-	-	-	-		
Time To Reduce *	-	-	-	-	-	-		
Minimum Gap	-	-	-	-	-	-		
Locking Detector	-	X	-	-	-	X		
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALI		
Dual Entry	-	-	-	-	-	-		

PHASING DIAGRAM

Ø3

Ø2+6

Ø2+5

Ø1+6

Ø1+5

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

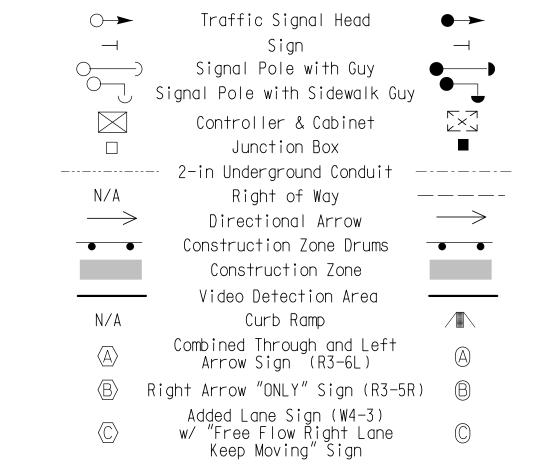
UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

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*		

35 MPH



LEGEND

<u>EXISTING</u>

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

032179

(TMP Phase II) Signal Upgrade - Temporary Design 2

SR 1007 (Mebane Oaks Road) SR 2033 (Arrowhead Boulevard) and SR 2034 (Cameron Lane) Division 7 Alamance County

* Time defaults to time used for phase during normal operation

Simultaneous Gap * These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what

PREPARED IN THE OFFICE OF: PLAN DATE: November 2019 REVIEWED BY: Z. "Gavin" Teng Accelerate Engineering, PLLC 750 N. Greenfield Pkwy, Garner, NC 27529 PREPARED BY: Z. "Gavin" Teng REVIEWED BY: 875 Walnut Street, Suite 316 Cary, NC 27511 REVISIONS INIT. DATE Tel: 919.263.5678 Fax: 919.263.5687 NC License No. P-1442 SIG. INVENTORY NO. 07-2098T2