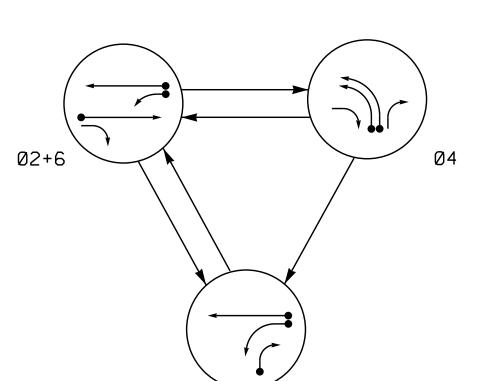
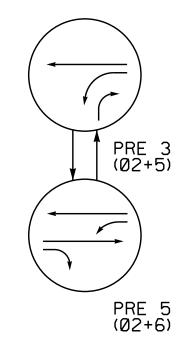
PHASING DIAGRAM



EV PREEMPT PHASES



(Medium Pri

riority)				PHA	4SE	
	SIGNAL FACE	Ø2+5	Ø 2 + 6	0 4	еπшю	PREID
	21, 22	G	G	R	G	G
PRE 3	41, 42	₩	 }	—	#	₩
(02+5)	43	→	R		Å	R
	51	—	- F	⊀ R	+	₽
	61	R	G	R	R	G
	62	R	G	R/	R	G
PRF 5						

SIGNAL FACE I.D.

62

TABLE OF OPERATION

All Heads L.E.D.

21, 22

	ASC	/3 DE	TECTO	R	INST	ALL	ATION	I CHAI	RT			
DETECTOR				PROGRAMMING								
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
2A/S13	6X6	300	*	*	2	Yes	-	-	Χ	Ν	Χ	*
4A	6X40	0	*	*	4	Yes	-	3	-	S	-	*
4B	6X40	0	*	*	4	Yes	-	-	-	S	1	*
ΕΛ	6X40	0	*	*	5	Yes	-	15	-	S	ı	*
5A	0 0 0 0 0		不	不	2	Yes	-	3	-	G	-	*
5B	6X40	0	*	*	5	Yes	-	15	-	S	-	*
6A/S11	6X6	300	*	*	6	Yes	-	-	Χ	N	Χ	*
S12	6x6	300	*	*	_	No				N	Χ	*
S15	6x6	+145	*	*	_	No	-	_	-	N	Χ	*
S16	6x6	+145	*	*	-	No	-	-	=	N	Χ	*

35 MPH (45 MPH Design Speed)

SIDEWALK

SR 1007 (Mebane Oaks Rd)

* Video Detection Zone

<u>NOTES</u>

- 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.

3 Phase

Fully Actuated

w/ Emergency Vehicle Preemption

SR 1007 (Mebane Oaks Rd) CLS

Signal System #: 10705

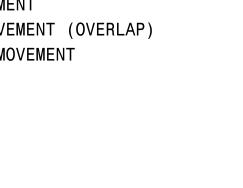
- 4. Set all detector units to presence mode.
- 5. This intersection features a GPS Emergency Vehicle Preemption system.
- 6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 7. Closed loop system data: Controller Asset #: 2060.

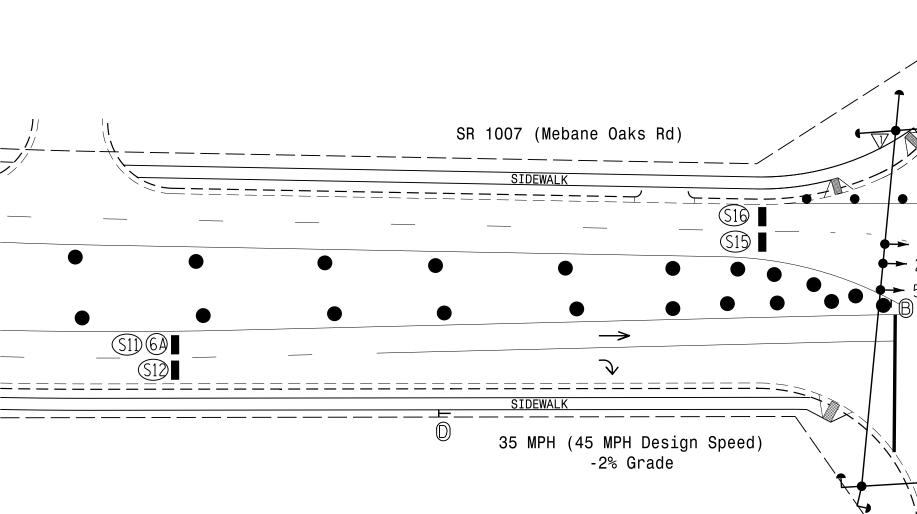
<u>PROPOSED</u>

DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT

PHASING DIAGRAM DETECTION LEGEND

02+5





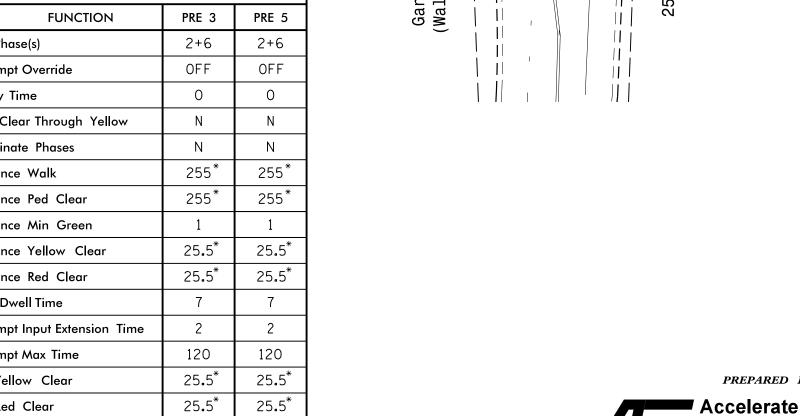
41, 42

AS	C/3 TIM	MING C	HART	
		PH	IASE	
FEATURE	2	4	5	6
Min Green *	12	7	7	12
Walk *	0	0	0	0
Ped Clear	0	0	0	0
Veh. Extension *	6.0	2.0	2.0	6.0
Max 1 *	90	25	15	90
Yellow	4.7	3.0	3.0	4.7
Red Clear	1.3	3.3	2.3	1.3
Red Revert	2.0	2.0	2.0	2.0
Actuations B4 Add *	0	-	-	0
Seconds /Actuation *	2 . 5	-	-	2.5
Max Initial *	34	-	-	34
Time Before Reduction *	15	-	-	15
Time To Reduce *	30	-	-	30
Minimum Gap	3.0	-	-	3.0
Locking Detector	Х	-	-	X
Recall Position	VEH. RECALL	-	-	VEH. RECALL
Dual Entry	-	-	-	-
Simultaneous Gap	Х	X	X	X

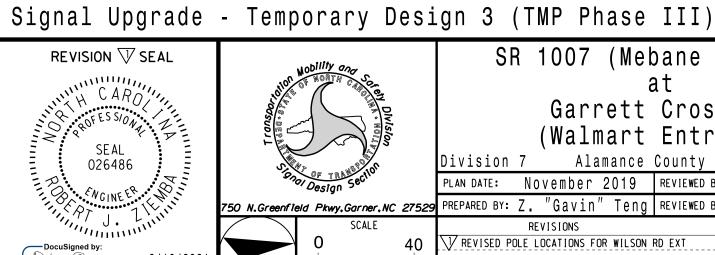
^{*} These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not

ASC/3 EV PREEMPT				
FUNCTION	PRE 3	PRE 5		
Exit Phase(s)	2+6	2+6		
Preempt Override	OFF	OFF		
Delay Time	0	0		
Ped Clear Through Yellow	N	N		
Terminate Phases	N	N		
Entrance Walk	255 [*]	255 [*]		
Entrance Ped Clear	255 [*]	255 [*]		
Entrance Min Green	1	1		
Entrance Yellow Clear	25 . 5*	25 . 5*		
Entrance Red Clear	25 . 5*	25 . 5*		
Min Dwell Time	7	7		
Preempt Input Extension Time	2	2		
Preempt Max Time	120	120		
Exit Yellow Clear	25 . 5*	25 . 5*		
Evit Pad Claar	25.5*	25.5*		

* Time defaults to time used for phase during normal operation



PREPARED IN THE OFFICE OF: Accelerate Engineering, PLLC 875 Walnut Street, Suite 316 Cary, NC 27511 Tel: 919.263.5678 Fax: 919.263.5687 NC License No. P-1442



1"=40'

2A (S13)

SR 1007 (Mebane Oaks Rd) at Garrett Crossing (Walmart Entrance) Division 7 Alamance County PLAN DATE: November 2019 REVIEWED BY: Z. "Gavin" Teng 750 N.Greenfleid Pkwy.Garner.NC 27529 PREPARED BY: Z. "Gavin" Teng REVIEWED BY:

REVISIONS

V REVISED POLE LOCATIONS FOR WILSON RD EXT

Not a certified document as to the Original Document but Only as to the Revisions This document originally issued and sealed by Zhaolong Teng,PE,#032179, on 12/17/2019. his document is only certified as to the revisions.

Mebane

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL SIGNATURES COMPLETED

INIT. DATE 6/10/21 SIG. INVENTORY NO. 07-2060T3

be lower than 4 seconds.

K×7 Controller & Cabinet Junction Box 2-in Underground Conduit N/A Right of Way Directional Arrow Construction Zone Drums Construction Zone Video Detection Area Curb Ramp No U Turn Sign (R3-4) Left Arrow "ONLY" Sign (R3-5L) Right Arrow "ONLY" Sign (R3-5R) "RIGHT LANE MUST TURN RIGHT" Sign (R3-7R)

LEGEND

Traffic Signal Head

Signal Pole with Guy

Signal Pole with Sidewalk Guy

<u>EXISTING</u>