

Í SEE Note #11

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11

PHASING DIAGRAM DETECTION LEGEND

◄─●	DETECTED MOVEMENT
◄	UNDETECTED MOVEMENT (OVERLAP)
-	UNSIGNALIZED MOVEMENT
<>	PEDESTRIAN MOVEMENT

2033 EV PREEMPTI	ON
FUNCTION	EVB (SECONDS)
DELAY BEFORE PREEMPT	0
MIN. PED. CLEAR BEFORE PREEMPT	*
MIN. GREEN BEFORE PREEMPT	1
CLEARANCE TIME	2
PREEMPT EXTEND**	2.0

* See Timing Chart for Min Ped Clearance ** Program Timing on Optical Detector Unit

PHASE	203	2033 SOFTWARE w/2070 CONTROLLER									
		Ø2	Ø4	Ø6	Ø8	OL3					
MINIMUM INITIAL *	7 SEC .	10 SEC .	7 SEC .	10 SEC.	7 SEC .	O SEC.					
VEHICLE EXTENSION *	2.0 SEC.	3.0 SEC.	2 . 0 SEC .	3.0 SEC.	2.0 SEC.						
YELLOW CHANGE INT.	4.1 SEC.	4.1 SEC.	3.4 SEC.	4.1 SEC.	4 . 1 SEC .	4.1 SEC.					
RED CLEARANCE	2.8 SEC.	2 . 1 SEC .	1.7 SEC.	2.1 SEC.	1.3 SEC.	2 . 1 SEC .					
MAXIMUM LIMIT *	15 sec .	50 SEC .	35 sec .	50 SEC .	35 sec .						
RECALL POSITION	NONE	VEH. RECALL	NONE	VEH. RECALL	NONE						
VEHICLE CALL MEMORY	NONE	YELLOW LOCK	NONE	YELLOW LOCK	NONE						
DOUBLE ENTRY	OFF	OFF	ON	OFF	ON						
WALK *	— SEC.	– SEC.	4 SEC.	4 SEC.	– SEC.						
FLASHING DON'T WALK	– SEC.	– SEC.	7 SEC .	8 SEC.	– SEC.						
MIN PED CLEARANCE	– SEC.	– SEC.	4 SEC.	4 SEC.	– SEC.						
TYPE 3 LIMIT	– SEC.	– SEC.	– SEC.	– SEC.	– SEC.						
ALTERNATE EXTENSION	– SEC.	– SEC.	– SEC.	– SEC.	– SEC.						
ADD PER VEHICLE *	– SEC.	– SEC.	– SEC.	– SEC.	– SEC.						
MAXIMUM INITIAL *	– SEC.	– SEC.	– SEC.	– SEC.	– SEC.						
MAXIMUM GAP*	2 . () SEC .	3 . () SEC .	2 . () SEC .	3 . () SEC .	2 . () SEC .						
REDUCE 0.1 SEC EVERY *	– SEC.	– SEC.	– SEC.	– SEC.	– SEC.						
MINIMUM GAP	2 . () SEC .	3 . () SEC .	2 . () SEC .	3 . () SEC .	2 . () SEC .						

* 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.

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TABLE OF	OP	ERA	TIO	N	
		PHA	ASE		
SIGNAL FACE	Ø 1 + 6	Ø 2 + 6	Ø 4 + 8	E V B	F L A S H
11	-	F	≺R	-	◄₩
21	≺ F Y	√ F	≺R	≺ F Y	◄₩
22,23	R	G	R	R	Y
41,42	R	R	G	R	R
61,62	G	G	R	G	Y
81,82	R	R	G	R	R
P41,P42	D·W	D·W	W	D·W	DRK
P61,P62	W	W	DW	DW	DRK

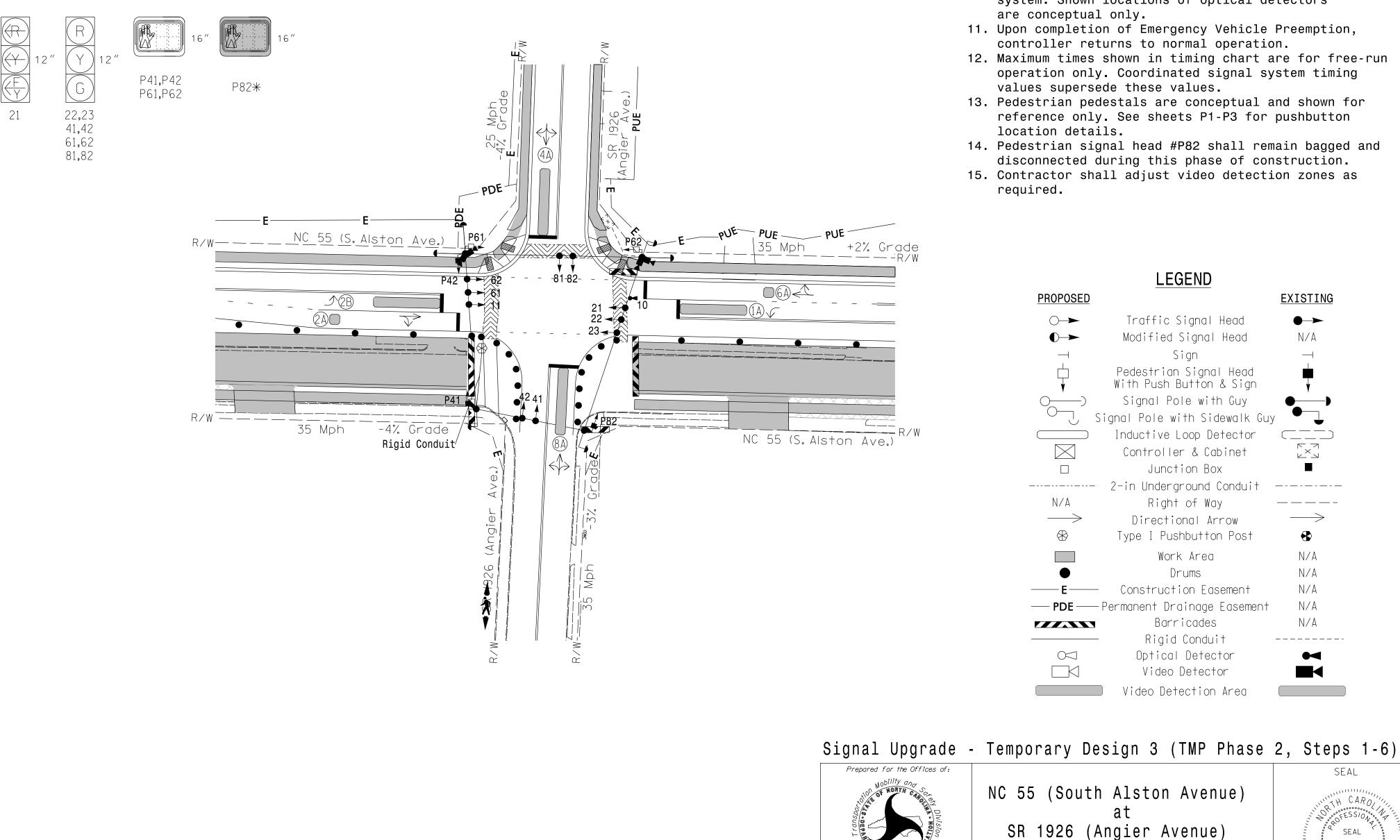
2033 SOFTWARE w/ 2070 CONTROLLER LOOP & DETECTOR UNIT INSTALLATION CHART

						DET				ECTOR PROGRAMMING											
	INDUCT	IVE LOC	OPS			TIMING			ATTRIBUTES								PPS	STA	TUS		
						-		IIM	ING		1	2 Z	3	4	5	6	7	8	LOOPS		U
LOOP NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	NEW	EXISTING	NEMA PHASE	DEL	AY	CA (STR	RRY etch)	FULL TIME DELAY	PEDESTRIAN CALL	RESERVED	COUNT	EXTENSION	ТҮРЕ З	CALLING	ALTERNATE	SYSTEM	NEW	EXISTING
1 A	6x40	*	0	*	_	1	15	SEC.	-	SEC.	-	-	-	-	Х	-	Х	-	-	-	*
IA	6X4U	木				6	-	SEC.	-	SEC.	-	-	-	-	Х	-	Х	-	-	-	*
2A	6×6	*	70	*	-	2	-	SEC.	-	SEC.	-	-	-	-	Х	-	Х	-	-	-	*
2B	6×40	*	0	*	-	2	-	SEC.	-	SEC.	-	-	-	-	Х	-	Х	-	-	-	*
4 A	6×40	*	0	*	-	4	10	SEC.	-	SEC.	-	-	-	-	Х	-	Х	-	-	-	*
6A	6×6	*	70	*	-	6	-	SEC.	-	SEC.	-	-	-	-	Х	-	Х	-	-	-	*
8A	6×40	*	0	*	-	8	10	SEC.	-	SEC.	-	-	-	-	Х	-	Х	-	-	-	*
PEDES	TRIAN	DETECT	ION																		
P41,P42	N/A	N/A	N/A	-	Х	4	_	SEC.	_	SEC.	-	Х	-	-	_	-	_	-	-	_	X
P61,P62	N/A	N/A	N/A	Х	-	6	-	SEC.	_	SEC.	-	Х	_	_	_	-	_	-	-	Х	-

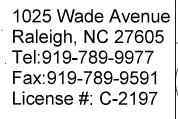
* Video Detection Zone

SIGNAL FACE I.D.

All Heads L.E.D. * See Note 14









PROJECT REFERENCE NO.	SHEET NO.
U-3308	Sig. 14.0

3 Phase Fully Actuated W/ EV Preemption (Durham Signal System)

NOTES

- 1. Refer to "Road Standard Drawings NCDOT" dated January 2012, "Standard Specifications for Roads and Structures" dated January 2012.
- 2. Do not program signal for late night flashing operation unless otherwise directed
- by the Engineer
- 3. Phase 1 may be lagged.
- 4. Reposition signal heads #11, #21, #22, #23, #61, #62 and optical detector #10.
- 5. Set all detector units to presence mode.
- 6. Program all timing information into phase banks 1,2, and 3 unless otherwise noted.
- 7. Set phase bank 3 maximum limit to 250 seconds for phases used.
- 8. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- 9. Program pedestrian heads to countdown the flashing "Don't Walk" time.
- 10. This intersection features an optical preemption system. Shown locations of optical detectors

- 14. Pedestrian signal head #P82 shall remain bagged and

Division 5 Durham County

28430

Durham