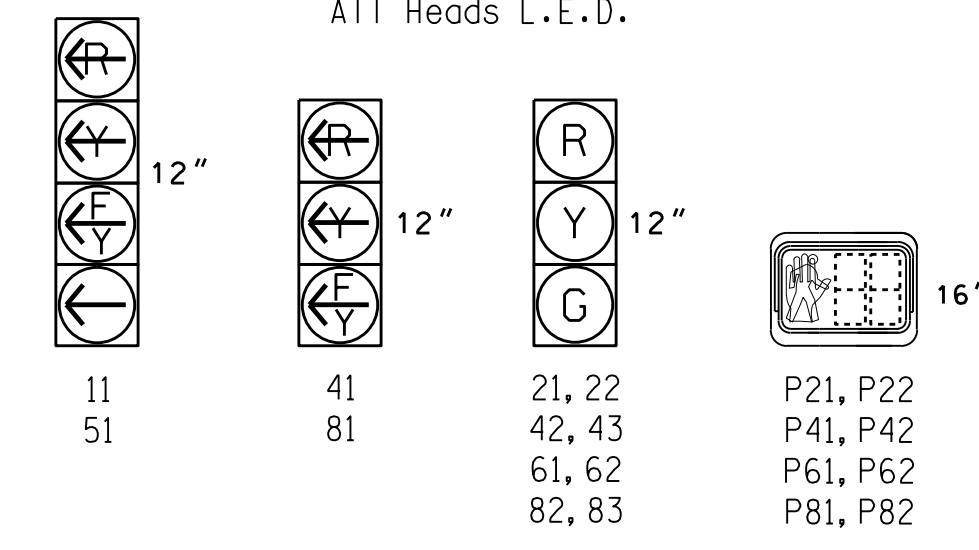


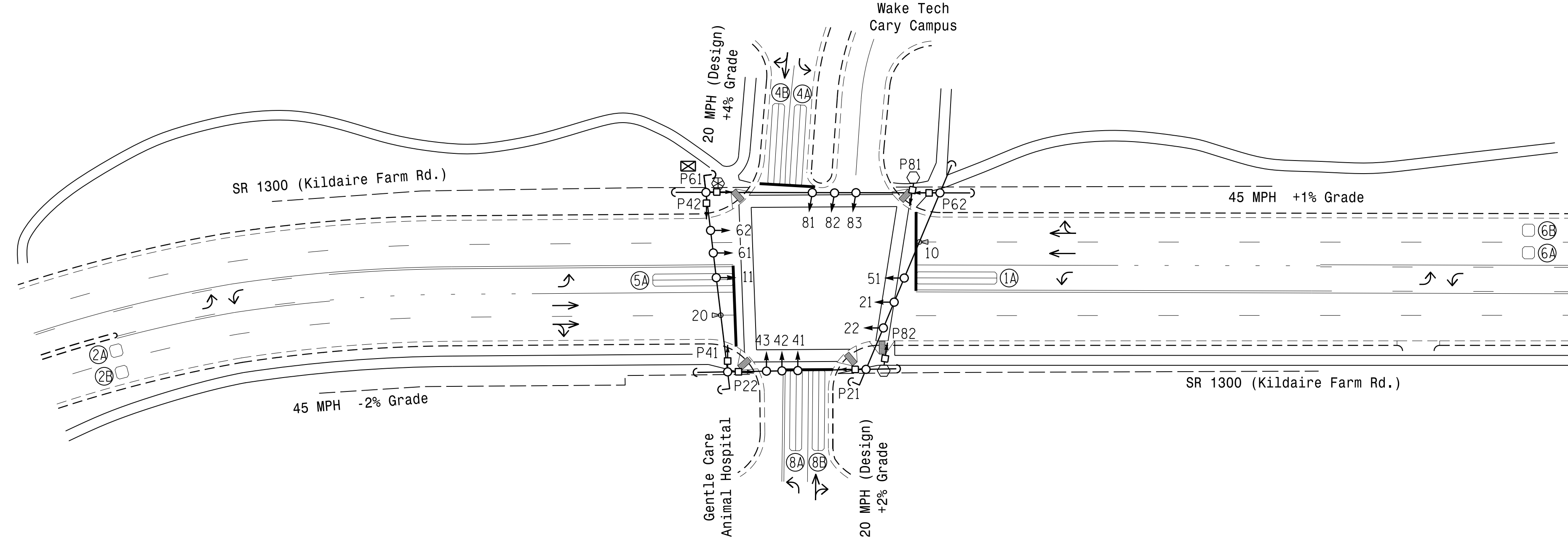
5 Phase Fully Actuated w/ EV Preemption (Cary Signal System)

SIGNAL FACE I.D.



LOOP & DETECTOR INSTALLATION CHART											
ASC/3-2070LXN2 CONTROLLER w/ TS-2 CABINET											
INDUCTIVE LOOPS						DETECTOR UNITS					
LOOP NO.	SIZE (ft)	DIST. FROM STOPBAR (ft)	TURNS	NEW EXISTING	NEMA PHASE	NEW EXISTING	TIMING		USE ADDED INITIAL	DET. TYPE	
							FEATURE	TIME			
1A	6X40	0	2-4-2	X	-	1	X	DELAY	15*	-	S
2A	6X6	300	5	X	-	2	X	-	-	X	N
2B	6X6	300	5	X	-	2	X	-	-	X	N
4A	6X40	0	2-4-2	X	-	4	X	-	-	-	S
4B	6X40	0	2-4-2	X	-	4	X	DELAY	10	-	S
5A	6X40	0	2-4-2	X	-	5	X	DELAY	15*	-	S
6A	6X6	300	5	X	-	6	X	-	-	X	N
6B	6X6	300	5	X	-	6	X	-	-	X	N
8A	6X40	0	2-4-2	X	-	8	X	DELAY	3	-	S
8B	6X40	0	2-4-2	X	-	8	X	DELAY	10	-	S

* Reduce Delay to 3 seconds during alternate phasing operation.
Disable phase call during alternate phasing operation.



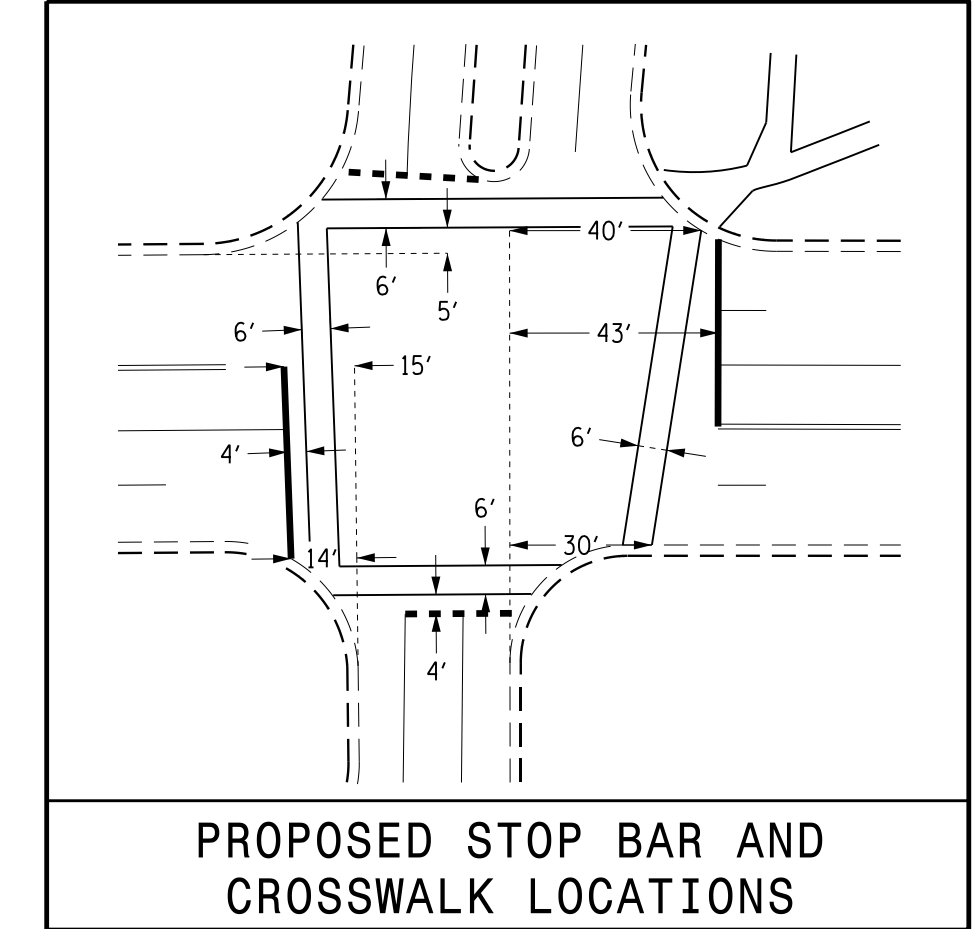
- NOTES**
- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
 - Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
 - Phase 1 and/or phase 5 may be lagged.
 - Set all detector units to presence mode.
 - Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
 - Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
 - Program pedestrian heads to countdown the flashing "Don't Walk" time only.
 - Pavement markings are existing unless otherwise shown.
 - The Division (Town) Traffic Engineer will determine the hours of use for each phasing plan.
 - This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
 - Optical detector 10 calls PRE 3; Optical detector 20 calls PRE 4.
 - Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
 - Cary signal system data:
Fiber Chanel #: 1.

TIMING CHART							
ASC/3-2070LXN2 CONTROLLER							
PHASE	01	02	04	05	06	08	
MINIMUM GREEN *	7 SEC.	12 SEC.	7 SEC.	7 SEC.	12 SEC.	7 SEC.	7 SEC.
VEHICLE EXT. *	2.0 SEC.	6.0 SEC.	2.0 SEC.	2.0 SEC.	6.0 SEC.	2.0 SEC.	2.0 SEC.
YELLOW CHANGE INT.	3.0 SEC.	4.7 SEC.	3.0 SEC.	3.0 SEC.	4.7 SEC.	3.0 SEC.	3.0 SEC.
RED CLEARANCE	2.8 SEC.	1.4 SEC.	2.9 SEC.	2.3 SEC.	1.4 SEC.	2.9 SEC.	2.9 SEC.
MAX. 1 *	15 SEC.	90 SEC.	30 SEC.	25 SEC.	90 SEC.	30 SEC.	30 SEC.
RECALL POSITION	NONE	MIN. RECALL	NONE	NONE	MIN. RECALL	NONE	NONE
LOCK DET.	OFF	ON	OFF	OFF	ON	OFF	OFF
DELAYED GREEN *	- SEC.	5 SEC.	5 SEC.	- SEC.	5 SEC.	5 SEC.	5 SEC.
WALK *	- SEC.	7 SEC.	7 SEC.	- SEC.	7 SEC.	7 SEC.	7 SEC.
PED. CLEAR	- SEC.	9 SEC.	20 SEC.	- SEC.	18 SEC.	17 SEC.	17 SEC.
VOLUME DENSITY	OFF	ON	OFF	OFF	ON	OFF	OFF
ACTUATION B4 ADD *	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.	- VEH.
SEC. PER ACTUATION *	- SEC.	1.5 SEC.	- SEC.	- SEC.	1.5 SEC.	- SEC.	- SEC.
MAX. INITIAL *	- SEC.	34 SEC.	- SEC.	- SEC.	34 SEC.	- SEC.	- SEC.
TIME B4 REDUCTION *	- SEC.	15 SEC.	- SEC.	- SEC.	15 SEC.	- SEC.	- SEC.
TIME TO REDUCE *	- SEC.	45 SEC.	- SEC.	- SEC.	45 SEC.	- SEC.	- SEC.
MINIMUM GAP	- SEC.	3.0 SEC.	- SEC.	- SEC.	3.0 SEC.	- SEC.	- SEC.
DUAL ENTRY	OFF	OFF	ON	OFF	OFF	ON	ON
SIMULTANEOUS GAP	ON	ON	ON	ON	ON	ON	ON

* 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.

EMERGENCY VEHICLE PREEMPTION		
FUNCTION	PRE 3	PRE 4
DELAY BEFORE PREEMPT	0	0
PMT OVERRIDE	OFF	OFF
PED CLEAR THROUGH YELLOW	Y	Y
TERMINATE PHASES	N	N
ENTRANCE WALK	1	1
ENTRANCE PED CLEAR	10	10
ENTRANCE MIN GREEN	1	1
ENTRANCE YELLOW CLEAR	25.5'	25.5'
ENTRANCE RED CLEAR	25.5'	25.5'
MIN DWELL GREEN	7	7
MAX CALL TIME	120	120
EXIT PHASE(S)	2+6	2+6
EXIT YELLOW CLEAR	25.5'	25.5'
EXIT RED CLEAR	25.5'	25.5'

* Time defaults to time used for phase during normal operation.



LEGEND	
PROPOSED	EXISTING

New Installation - Sheet 1 of 2

SR 1300 (Kildaire Farm Road) at Wake Tech Cary Campus Gentle Care Animal Hospital

Division 5 Wake County Cary

PLAN DATE: April 2020 REVIEWED BY: J.A. Lohr

PREPARED BY: J.A. Lohr REVIEWED BY: J.A. Lohr

SCALE: 1" = 40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER ROBERT J. TIMMONS SEAL 026486

DATE: 5/15/2020

SIG. INVENTORY NO. 05-1152

15-MAY-2020 12:04 S:\IT\GIS\UM\15\Sig\15-1152\051152_sig.dgn 20200515.dgn