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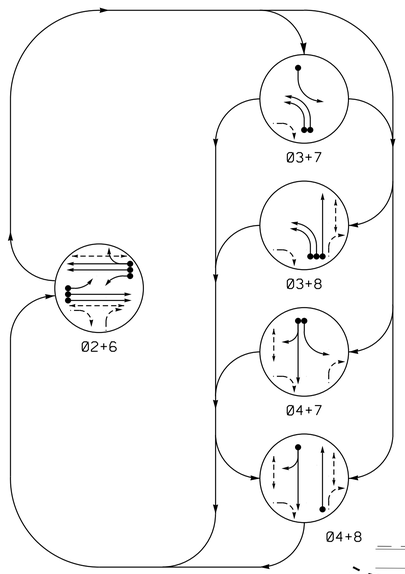
PROJECT REFERENCE NO.	SHEET NO.
C-5558	Sig.25.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

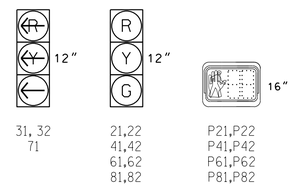
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 02+6	03+7	03+8	04+7	04+8	FLASH
21, 22	G	R	R	R	R	Y
31, 32	~~R~~	←	←	~~R~~	~~R~~	~~R~~
41, 42	R	R	R	G	G	R
61, 62	G	R	R	R	R	Y
71	~~R~~	←	~~R~~	←	~~R~~	~~R~~
81, 82	R	R	G	R	G	R
P21, P22	W	DW	DW	DW	DW	DRK
P41, P42	DW	DW	DW	W	W	DRK
P61, P62	W	DW	DW	DW	DW	DRK
P81, P82	DW	DW	W	DW	W	DRK

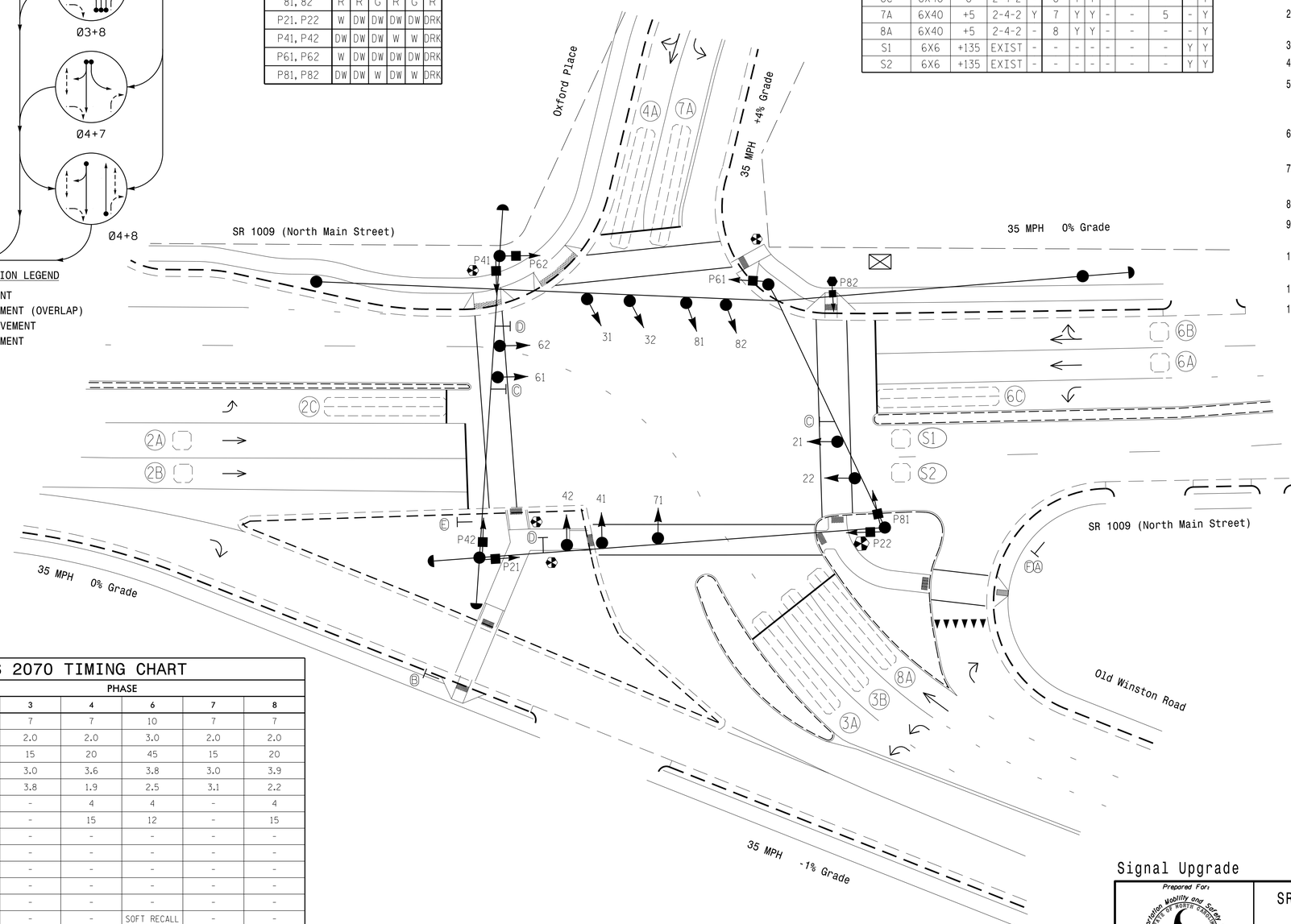
SIGNAL FACE I.D.

All Heads L.E.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A, 2B	6X6	90	EXIST	-	2	Y	Y	-	-	-	-	Y
2C	6X40	0	2-4-2	-	2	Y	Y	-	-	-	-	Y
3A	6X40	+5	2-4-2	-	3	Y	Y	-	-	-	-	Y
3B	6X40	+5	2-4-2	-	3	Y	Y	-	-	-	-	Y
4A	6X40	+5	2-4-2	Y	4	Y	Y	-	-	-	-	Y
6A, 6B	6X6	90	EXIST	-	6	Y	Y	-	-	-	-	Y
6C	6X40	0	2-4-2	-	6	Y	Y	-	-	-	-	Y
7A	6X40	+5	2-4-2	Y	7	Y	Y	-	-	5	-	Y
8A	6X40	+5	2-4-2	-	8	Y	Y	-	-	-	-	Y
S1	6X6	+135	EXIST	-	-	-	-	-	-	-	Y	Y
S2	6X6	+135	EXIST	-	-	-	-	-	-	-	Y	Y



OASIS 2070 TIMING CHART

FEATURE	PHASE 2	3	4	6	7	8
Min Green 1 *	10	7	7	10	7	7
Extension 1 *	3.0	2.0	2.0	3.0	2.0	2.0
Max Green 1 *	45	15	20	45	15	20
Yellow Clearance	3.8	3.0	3.6	3.8	3.0	3.9
Red Clearance	2.4	3.8	1.9	2.5	3.1	2.2
Walk 1 *	4	-	4	4	-	4
Don't Walk 1	18	-	15	12	-	15
Seconds Per Actuation *	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Recall Mode **	SOFT RECALL	-	-	SOFT RECALL	-	-
Vehicle Call Memory	YELLOW	-	-	YELLOW	-	-
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	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.

** May be changed to Min Recall by Time of Day a discretion of City Traffic Engineer.

5 Phase Fully Actuated (High Point Signal System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "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 3 and/or phase 7 may be lagged.
4. Set all detector units to presence mode.
5. In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. The cabeint should be designed to include an Auxiliary Output File for future use.
8. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
9. Program pedestrian heads to countdown the flashing "DON'T WALK" time only.
10. Existing Left Arrow "ONLY" signs (R3-5L) may be removed at the direction of the Engineer.
11. Pavement markings are existing.
12. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
N/A	Curb Ramp	
	Type I Pushbutton Post	
	Type II Signal Pedestal	
Ⓐ	"YIELD" Sign (R1-2)	Ⓐ
Ⓑ	Pedestrian Crossing Sign (W11-2) w/ Downward Arrow Plaque (W-16-7P)	Ⓑ
Ⓒ	Left Arrow "ONLY" Sign (R3-5L)	Ⓒ
Ⓓ	"NO TURN ON RED" Sign (R10-11)	Ⓓ
Ⓔ	No Right Turn Sign (R3-1)	Ⓔ
Ⓕ	No Left Turn Sign (R3-2)	Ⓕ

Signal Upgrade

Prepared For: Mobility and Safety Division, Transportation Management Unit, Signal Design Section, 750 N.Greenfield Pkwy, Garner, NC 27529

Prepared in the offices of:
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SCALE 1"=20' (0 – 20)

SR 1009 (North Main Street) at Oxford Place/Old Winston Road

Division 7	Guilford County	High Point
PLAN DATE: May 2015	PREPARED BY: WJ Hamilton	
PREPARED BY: NE Burns	RKA PROJ NO: 14258 (040)	

REVISIONS	INIT.	DATE

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

DocuSigned by: William J. Hamilton 12/8/2015
A05660704654854
SIGNATURE DATE

SIG. INVENTORY NO. 07-0752