PROJECT REFERENCE NO.	SHEET NO.
W-5601GG	Sig. 2.0

PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE 02+6	PHASE 04+8	FLASH
21	~~F Y~~	~~R~~	~~R~~
41, 42	R	G	R
61, 62	G	R	Y
81	~~R~~	~~F Y~~	~~R~~
82, 83	R	G	R
P21, P22	W	DW	DRK
P41, P42	DW	W	DRK
P61, P62	W	DW	DRK
P81, P82	DW	W	DRK

W - Walk
DW - Don't Walk
DRK - Dark

SIGNAL FACE I.D.

All Heads L.E.D.

TIMING CHART

2033 SOFTWARE w/ 2070 CONTROLLER

PHASE	02	04	06	08	OL1	OL2
MINIMUM INITIAL *	10 SEC.	7 SEC.	10 SEC.	7 SEC.	10 SEC.	7 SEC.
VEHICLE EXTENSION *	0.0 SEC.	0.0 SEC.	0.0 SEC.	0.0 SEC.		
YELLOW CHANGE INT.	3.1 SEC.	3.2 SEC.	3.1 SEC.	3.2 SEC.	3.1 SEC.	3.2 SEC.
RED CLEARANCE	1.7 SEC.	1.7 SEC.	1.7 SEC.	1.7 SEC.	1.7 SEC.	1.7 SEC.
MAXIMUM LIMIT *	60 SEC.	30 SEC.	60 SEC.	30 SEC.		
RECALL POSITION	MAXPED RECALL	MAXPED RECALL	MAXPED RECALL	MAXPED RECALL		
VEHICLE CALL MEMORY	N/A	N/A	N/A	N/A		
DOUBLE ENTRY	OFF	ON	OFF	ON		
ADVANCE WALK	5 SEC.	– SEC.	– SEC.	– SEC.		
WALK *	7 SEC.	7 SEC.	7 SEC.	7 SEC.		
MINIMUM PED CLEAR	5 SEC.	5 SEC.	5 SEC.	5 SEC.		
FLASHING DON'T WALK	11 SEC.	8 SEC.	11 SEC.	8 SEC.		
TYPE 3 LIMIT	– SEC.	– SEC.	– SEC.	– SEC.		
ALTERNATE EXTENSION	– SEC.	– SEC.	– SEC.	– SEC.		
ADD PER VEHICLE *	– SEC.	– SEC.	– SEC.	– SEC.		
MAXIMUM INITIAL *	– SEC.	– SEC.	– SEC.	– SEC.		
MAXIMUM GAP*	– SEC.	– SEC.	– SEC.	– SEC.		
REDUCE 0.1 SEC EVERY *	– SEC.	– SEC.	– SEC.	– SEC.		
MINIMUM GAP	– SEC.	– SEC.	– SEC.	– 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.

2 Phase
Pre-Timed
(Durham 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. Renumber existing signal heads and phases as shown.
4. Reposition existing signal heads numbered 61, 62, 82, and 83.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
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. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
9. Pavement markings are existing.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	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	
	Metal Strain Pole	
N/A	Curb Ramp	
A	Street Name Sign (D3-1)	A
B	No Right Turn Sign (R3-1)	B
C	"NO TURN ON RED" Sign (R10-11)	C
D	Left "TURNING VEHICLES" Yield "TO" Pedestrians Sign (R10-15)	D
E	No Left Turn Sign (R3-2)	E

Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SR 1327 (Gregson Street) at US 70 Bus. EB (W. Main Street)

Division 5 Durham County Durham

PLAN DATE:	August 2016	REVIEWED BY:	
PREPARED BY:	C.E. Carter	REVIEWED BY:	

SCALE 0 20 1"=20'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 026486 ENGINEER ROBERT J. ZIEMBA

DocuSigned by: 10/24/2016
SIGNATURE DATE

SIG. INVENTORY NO. 05-1007

31-OCT-2016 15:10
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