PHASING DIAGRAM

02+6   04+8

02+5

PHASING DIAGRAM DETECTION LEGEND

- ●——— DETECTED MOVEMENT
- ——— UNDETECTED MOVEMENT (OVERLAP)
- – – – UNSIGNALIZED MOVEMENT
- ‹– – – – PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE			
	Ø2+5	Ø2+6	Ø4+8	FLASH
21, 22	G	G	R	Y
41, 42	R	G	R	R
51	←F/Y	←R	←R	←Y
61, 62	R	G	R	Y
63	F/Y→	F/Y→	←R	←Y
81, 82	R	R	G	R
P81, P82	DW	DW	W	DRK

W – Walk
DW – Don't Walk
DRK – Dark

SCHOOL FLASHER TABLE OF OPERATION

SIGNAL FACE	INTERVAL	
	1	2
101, 103	ON	OFF
102, 104	OFF	ON

SIGNAL FACE I.D.

All Heads L.E.D.

(F/Y/G) = Bimodal Section

51   12"   63   12"   21,22 41,42 61,62 81,82   12"   P81,P82   16"

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	6X6	63	EXIST	–	2	Y	Y	–	–	–	–	Y
4A, 4B	6X60	+10	2-4-2	–	4	Y	Y	–	–	5	–	Y
5A	6X40	0	2-4-2	–	5	Y	Y	–	–	15	–	Y
6A	6X6	71	EXIST	–	6	Y	Y	–	–	–	–	Y
8A, 8B	6X60	+5	2-4-2	–	8	Y	Y	–	–	5	–	Y

SCHOOL

School Flashers 103 and 104
(Connected to System Via This Signal)

35 MPH -6% Grade

McGuinn Drive

4A

4B

101 102
101

SR 1486 (East Lexington Avenue)

35 MPH +2% Grade

P81

TIE   62
        A   81   82
        61
        63   51
                    21
                    22
42   41   A   TIE

5A

2A

35 MPH -7% Grade

6A

SR 1486 (East Lexington Avenue)

McGuinn Drive

35 MPH +2% Grade

8B

8A

P82

3 Phase
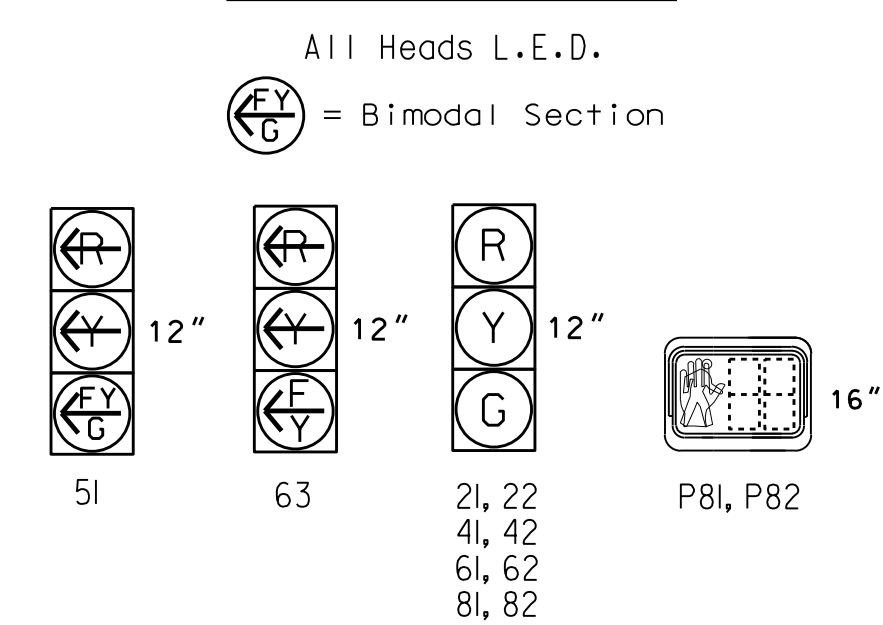### Fully Actuated
(High Point Signal System)

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 5 may be lagged.
4. Reposition existing signal heads numbered 22, 61 and 62.
5. Set all detector units to presence mode.
6. 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.
7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
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. The Division Traffic Engineer will determine the hours of use for the school warning beacons.
11. Existing Left Arrow "ONLY" signs (R3-5L) may be removed at the direction of the Engineer.
12. Pavement markings are existing.
13. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
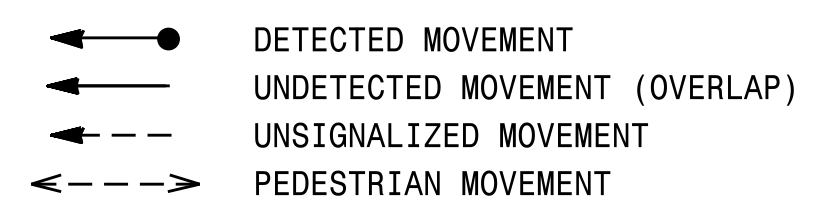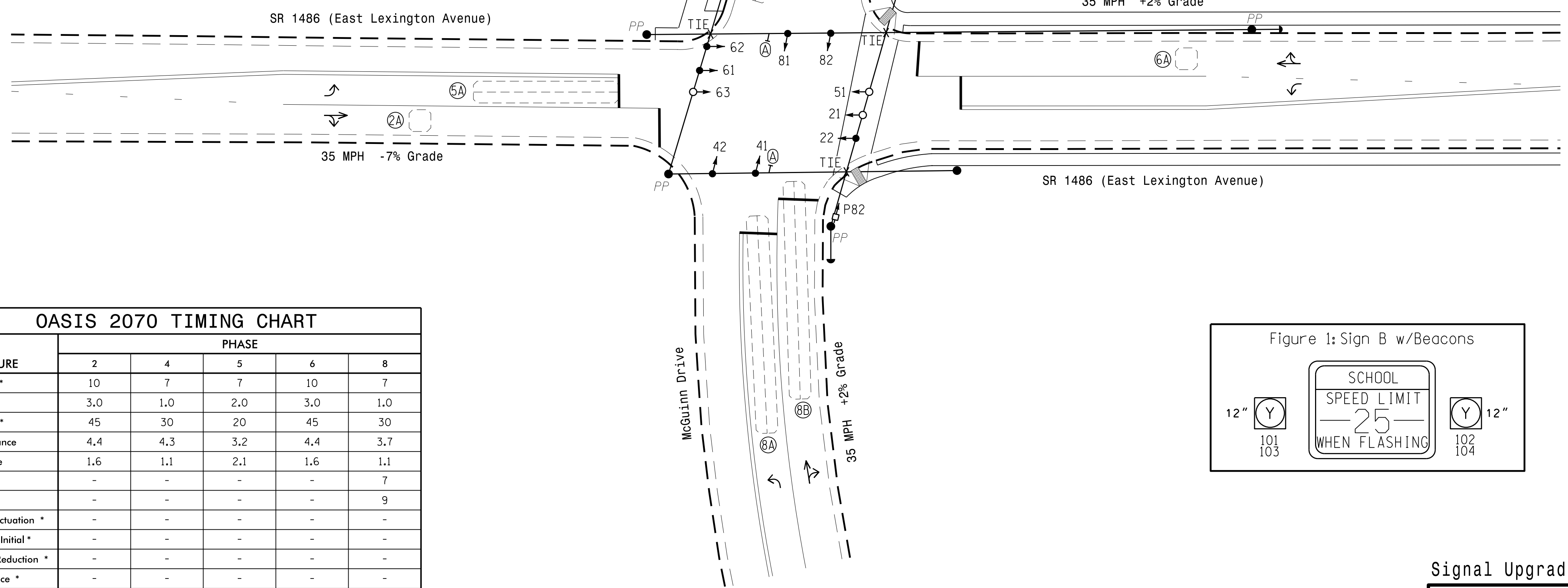
LEGEND

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	——→
N/A	Curb Ramp	
Ⓐ	Left Arrow "ONLY" Sign (R3-5L)	Ⓐ
Ⓑ	"SCHOOL SPEED LIMIT 25 WHEN FLASHING" Sign (S5-1) w/ Beacons (See Figure 1)	Ⓑ

OASIS 2070 TIMING CHART

FEATURE	PHASE				
	2	4	5	6	8
Min Green 1 *	10	7	7	10	7
Extension 1 *	3.0	1.0	2.0	3.0	1.0
Max Green 1 *	45	30	20	45	30
Yellow Clearance	4.4	4.3	3.2	4.4	3.7
Red Clearance	1.6	1.1	2.1	1.6	1.1
Walk 1 *	–	–	–	–	7
Don't Walk 1 *	–	–	–	–	9
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	–	ON	–	–	ON
Simultaneous Gap	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 at discretion of City Traffic Engineer.

Figure 1: Sign B w/Beacons

12" [Y]   SCHOOL SPEED LIMIT 25 WHEN FLASHING   [Y] 12"
101   102
103   104

Signal Upgrade

SR 1486 (E. Lexington Avenue) at McGuinn Drive		SEAL
Division 7 Guilford County High Point		
Plan Date: August 2014	Prepared By: Jeff Spence	
Prepared By: K.G. Peedin, Jr.	Reviewed By:	
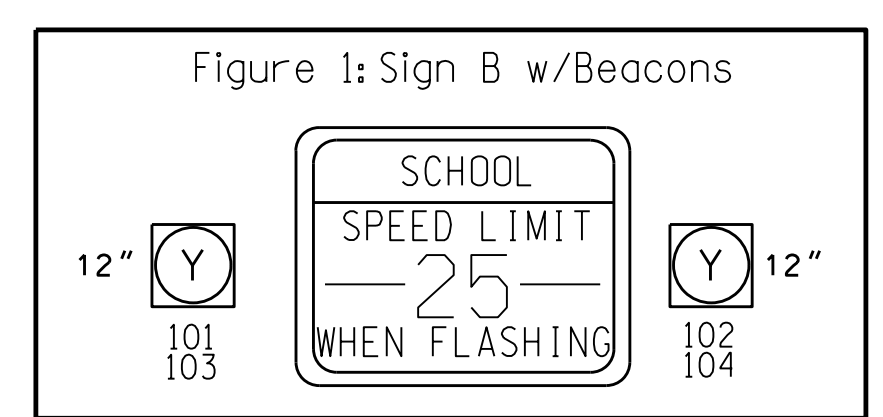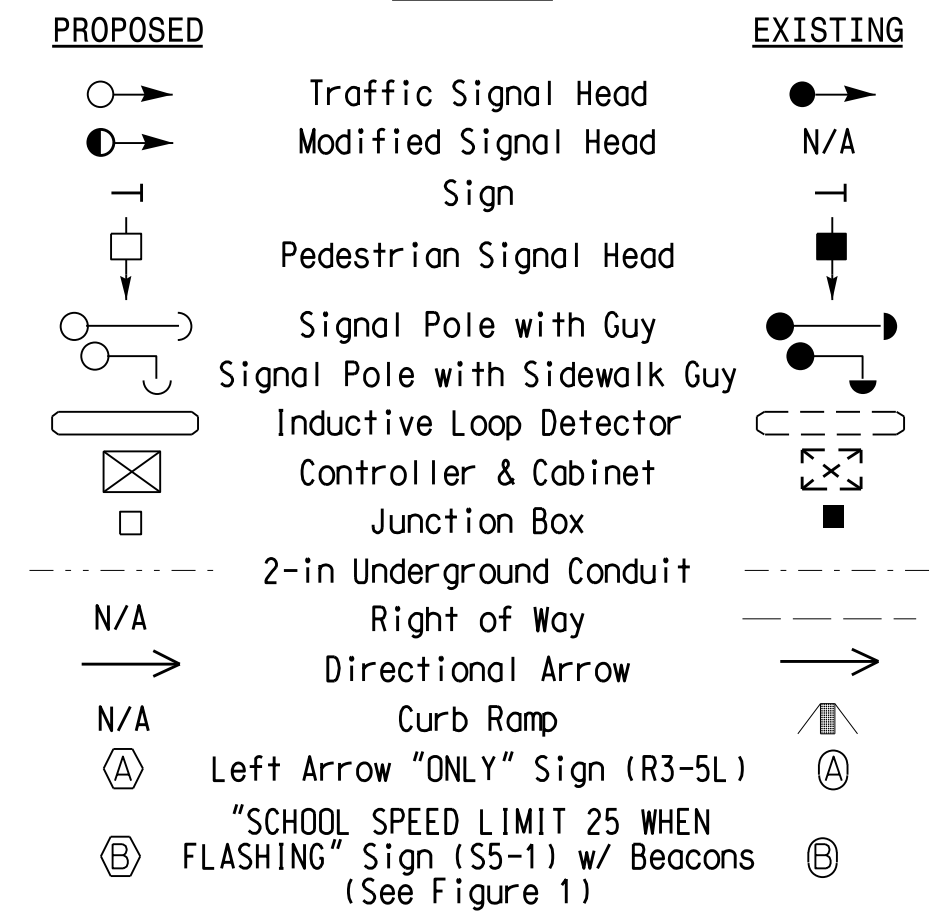
Prepared In the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA
SEAL
026486
ROBERT J. ZIEMBA
3/6/2015

SIG. INVENTORY NO.   07-0759

SCALE
0   20
1"=20'

N