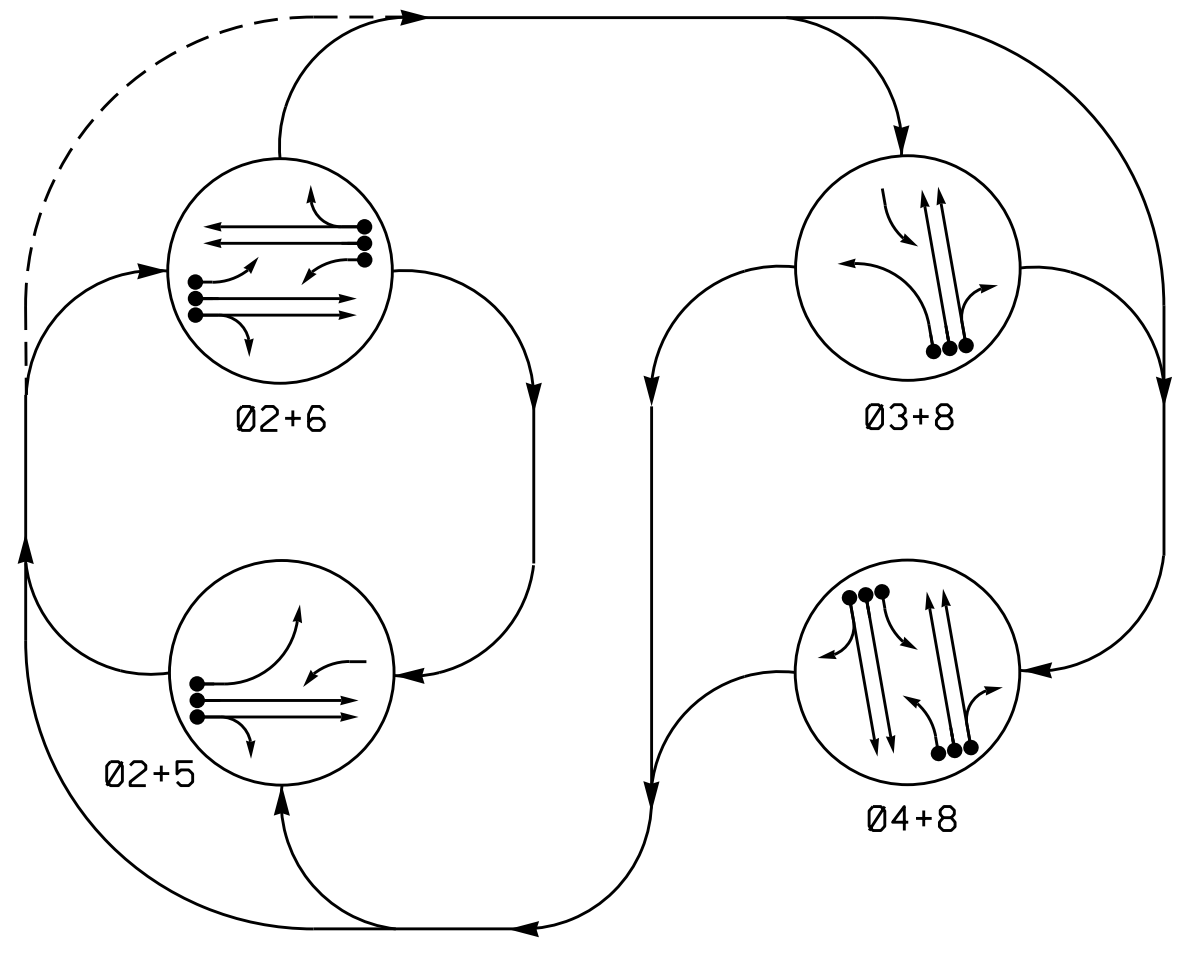


PHASING DIAGRAM

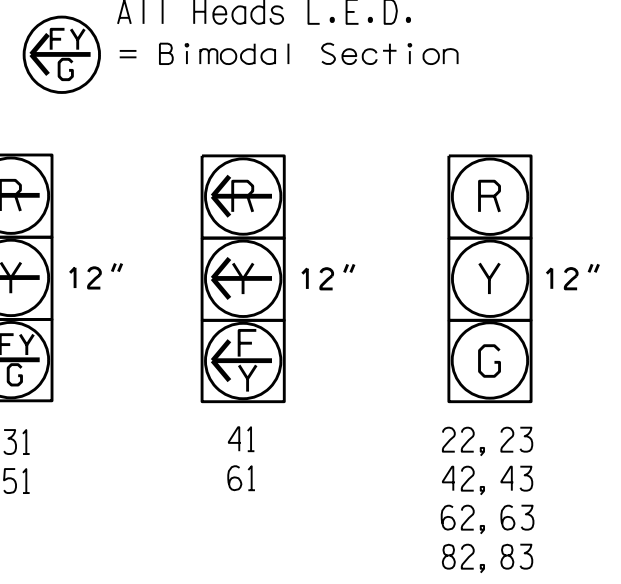


**PHASING DIAGRAM DETECTION LEGEND**  
 ● DETECTED MOVEMENT  
 ○ UNDETECTED MOVEMENT (OVERLAP)  
 - - - UNSIGNALIZED MOVEMENT  
 - - - PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE				
	02+5	02+6	03+8	04+8	F L E A H
22, 23	G	G	R	R	Y
31	R	R	F	F	R
41	R	R	F	F	R
42, 43	R	R	R	G	R
51	F	F	R	R	Y
61	F	F	R	R	Y
62, 63	R	G	R	R	Y
82, 83	R	R	G	G	R

**SIGNAL FACE I.D.**



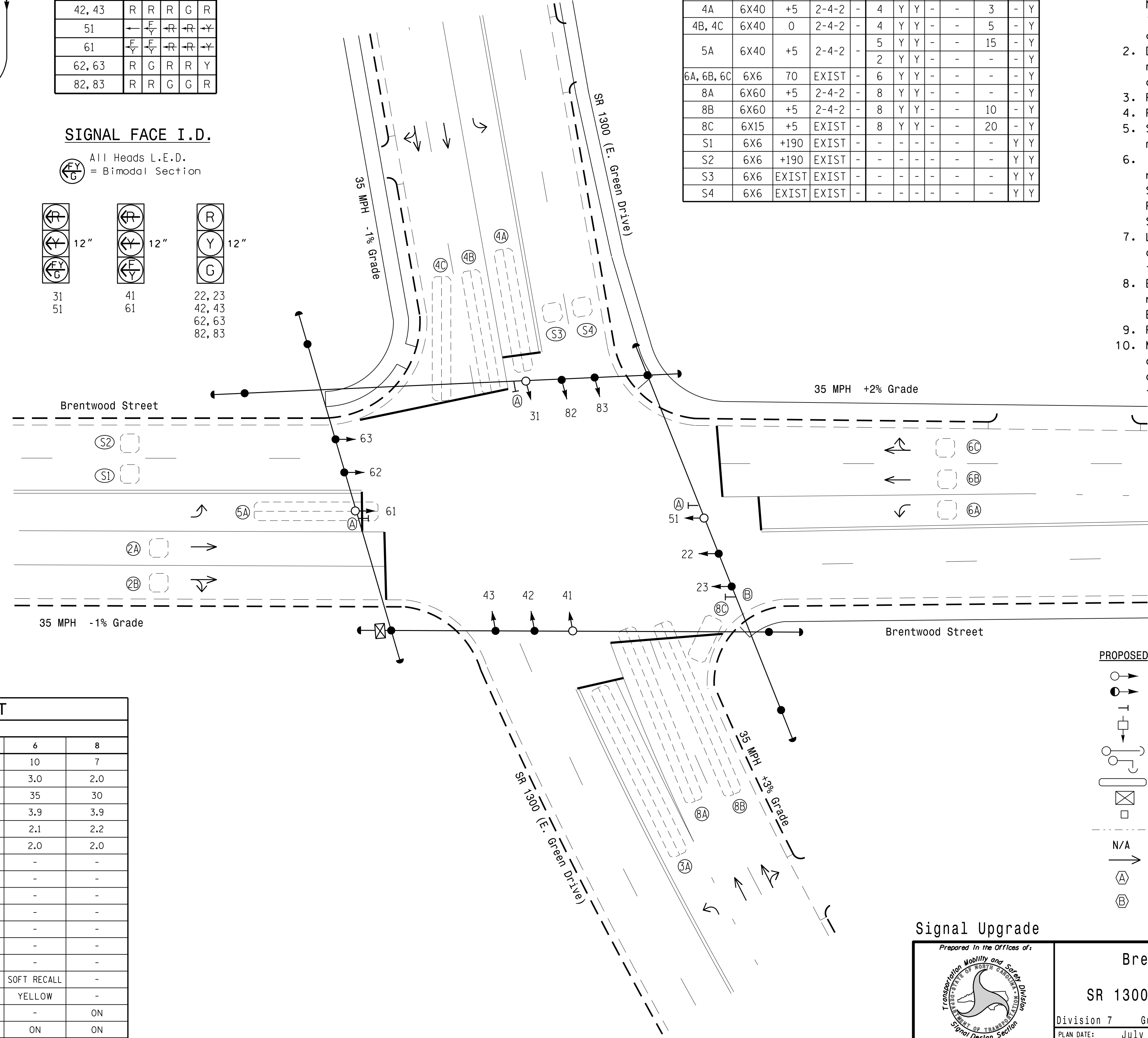
**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	STRETCH TIME	DELAY TIME	LOOP SYSTEM	NEW CARD	
2A, 2B	6X6	70	EXIST	-	2	Y	Y	-	-	-	-	-
3A	6X60	0	2-4-2	-	8	Y	Y	-	-	3	-	Y
4A	6X40	+5	2-4-2	-	4	Y	Y	-	-	3	-	Y
4B, 4C	6X40	0	2-4-2	-	4	Y	Y	-	-	5	-	Y
5A	6X40	+5	2-4-2	-	2	Y	Y	-	-	-	-	Y
6A, 6B, 6C	6X6	70	EXIST	-	6	Y	Y	-	-	-	-	Y
8A	6X60	+5	2-4-2	-	8	Y	Y	-	-	-	-	Y
8B	6X60	+5	2-4-2	-	8	Y	Y	-	-	10	-	Y
8C	6X15	+5	EXIST	-	8	Y	Y	-	-	20	-	Y
S1	6X6	+190	EXIST	-	-	-	-	-	-	-	-	Y
S2	6X6	+190	EXIST	-	-	-	-	-	-	-	-	Y
S3	6X6	EXIST	EXIST	-	-	-	-	-	-	-	-	Y
S4	6X6	EXIST	EXIST	-	-	-	-	-	-	-	-	Y

4 Phase Fully Actuated (High Point Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 5 may be lagged.
- Phase 3 may be lagged.
- Set all detector units to presence mode.
- 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.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Existing lane control signs may be removed at the direction of the Engineer.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



**OASIS 2070 TIMING CHART**

FEATURE	PHASE					
	2	3	4	5	6	8
Min Green 1 *	10	7	7	7	10	7
Extension 1 *	3.0	2.0	2.0	2.0	3.0	2.0
Max Green 1 *	35	15	30	25	35	30
Yellow Clearance	3.9	3.0	3.9	3.0	3.9	3.9
Red Clearance	2.1	2.9	2.2	2.6	2.1	2.2
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
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	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.

**LEGEND**

PROPOSED	EXISTING
○ Traffic Signal Head	● Traffic Signal Head
○ Modified Signal Head	N/A
⊥ Sign	⊥ Sign
⊥ Pedestrian Signal Head With Push Button & Sign	⊥ Pedestrian Signal Head With Push Button & Sign
⊥ Signal Pole with Guy	⊥ Signal Pole with Guy
⊥ Signal Pole with Sidewalk Guy	⊥ Signal Pole with Sidewalk Guy
⊥ Inductive Loop Detector	⊥ Inductive Loop Detector
⊥ Controller & Cabinet	⊥ Controller & Cabinet
⊥ Junction Box	⊥ Junction Box
- - - 2-in Underground Conduit	- - - 2-in Underground Conduit
N/A Right of Way	→ Right of Way
→ Directional Arrow	→ Directional Arrow
(A) Left Arrow "ONLY" Sign (R3-5L)	(A) Left Arrow "ONLY" Sign (R3-5L)
(B) Combined Through and Right Arrow Sign (R3-6R)	(B) Combined Through and Right Arrow Sign (R3-6R)

Signal Upgrade

Prepared in the Offices of:  
 TRANSPORTATION MOBILITY AND SAFETY DIVISION  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 Signal Design Section  
 750 N. Greenfield Pkwy, Garner, NC 27529

**Brentwood Street at SR 1300 (E. Green Drive)**

Division 7 Guilford County High Point  
 PLAN DATE: July 2014 REVIEWED BY:  
 PREPARED BY: R.N. Zinser REVIEWED BY:

REVISIONS: \_\_\_\_\_ INIT. DATE: \_\_\_\_\_

SCALE: 0 20  
 1"=20'

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 ROBERT J. ZIEMBA  
 026486  
 4/20/2015  
 DATE  
 SIG. INVENTORY NO. 07-1483

20-0486-2015-11104  
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