

8 Phase Fully Actuated Wilmington 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 1 and/or phase 5 may be lagged.
4. Phase 3 and/or phase 7 may be lagged.
5. Set all detector units to presence mode.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
7. Signal system data: Controller Asset #0153.

PHASING DIAGRAM

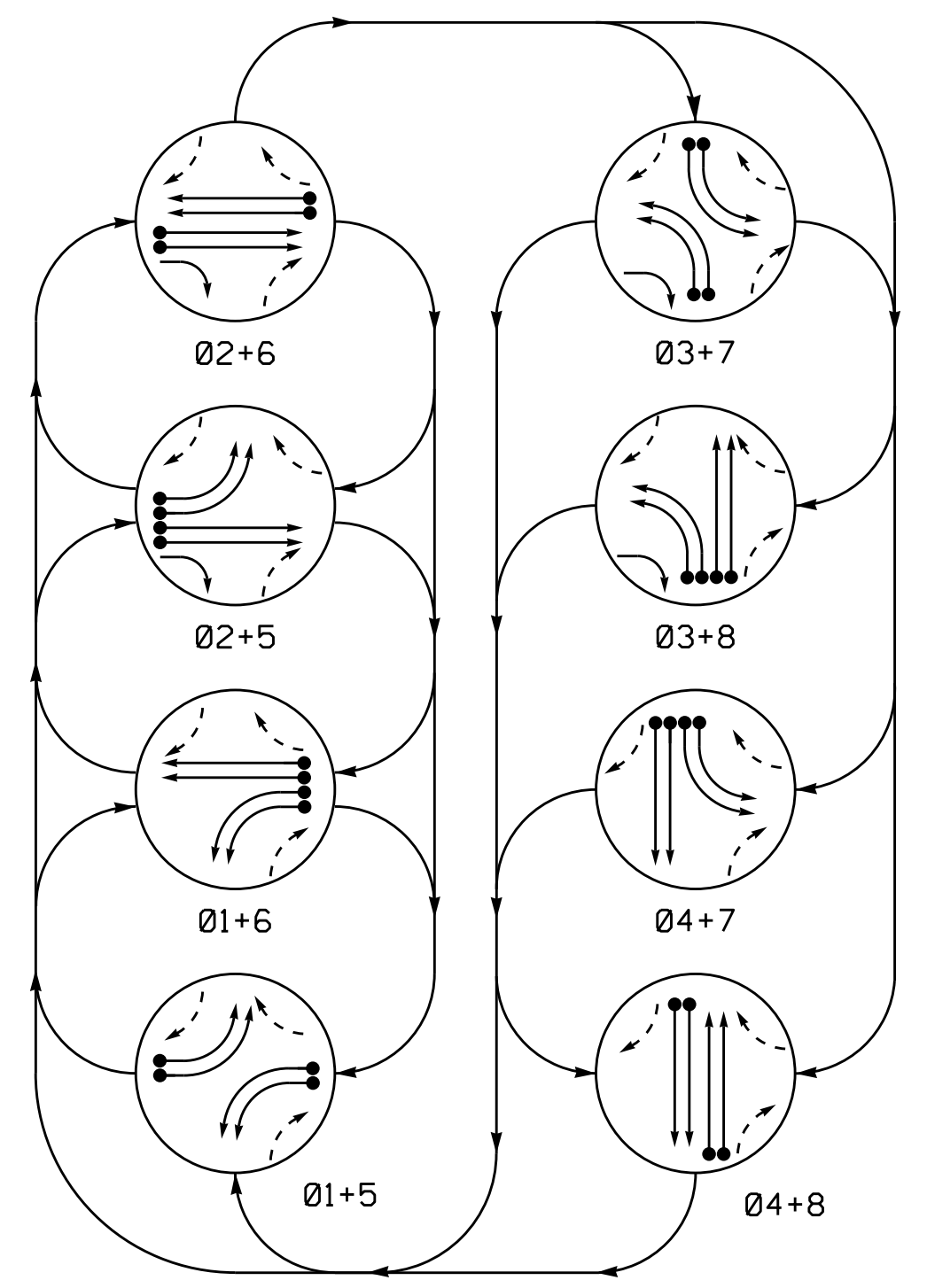
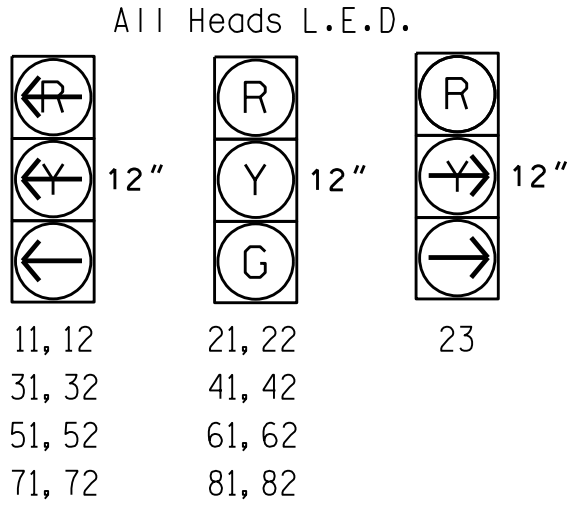


TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11, 12	←	←	←	←	←	←	←	←
21, 22	R	R	G	G	R	R	R	Y
23	R	R	←	←	←	←	R	R
31, 32	←	←	←	←	←	←	←	←
41, 42	R	R	R	R	R	R	G	G
51, 52	←	←	←	←	←	←	←	←
61, 62	R	G	R	G	R	R	R	Y
71, 72	←	←	←	←	←	←	←	←
81, 82	R	R	R	R	R	G	R	G

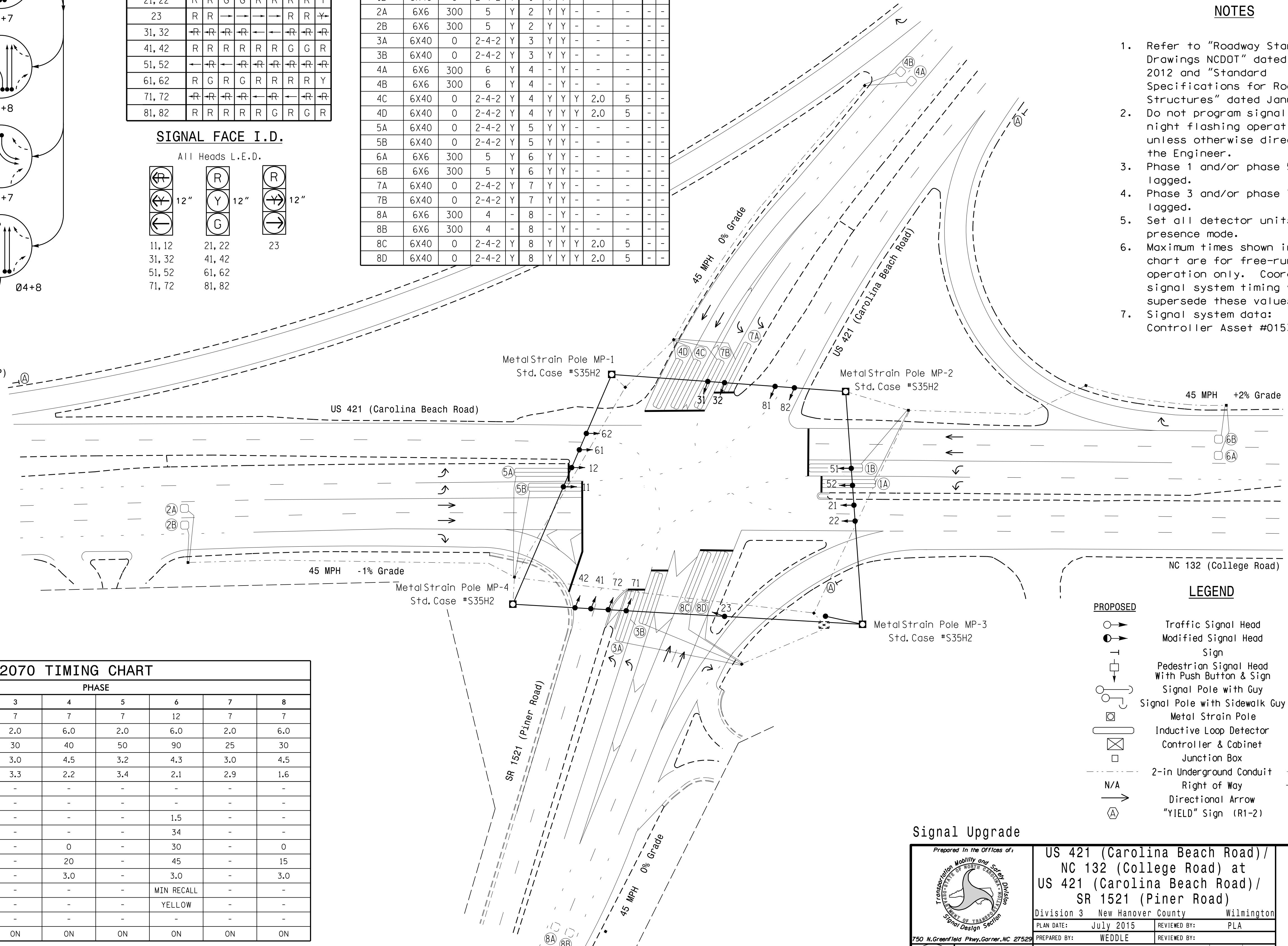
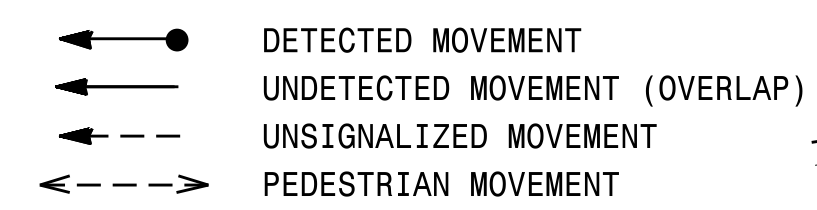
SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTENSION	STRETCH TIME		
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	-
1B	6X40	0	2-4-2	Y	1	Y	Y	-	-	-
2A	6X6	300	5	Y	2	Y	Y	-	-	-
2B	6X6	300	5	Y	2	Y	Y	-	-	-
3A	6X40	0	2-4-2	Y	3	Y	Y	-	-	-
3B	6X40	0	2-4-2	Y	3	Y	Y	-	-	-
4A	6X6	300	6	Y	4	-	Y	-	-	-
4B	6X6	300	6	Y	4	-	Y	-	-	-
4C	6X40	0	2-4-2	Y	4	Y	Y	2.0	5	-
4D	6X40	0	2-4-2	Y	4	Y	Y	2.0	5	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	-
5B	6X40	0	2-4-2	Y	5	Y	Y	-	-	-
6A	6X6	300	5	Y	6	Y	Y	-	-	-
6B	6X6	300	5	Y	6	Y	Y	-	-	-
7A	6X40	0	2-4-2	Y	7	Y	Y	-	-	-
7B	6X40	0	2-4-2	Y	7	Y	Y	-	-	-
8A	6X6	300	4	-	8	-	Y	-	-	-
8B	6X6	300	4	-	8	-	Y	-	-	-
8C	6X40	0	2-4-2	Y	8	Y	Y	2.0	5	-
8D	6X40	0	2-4-2	Y	8	Y	Y	2.0	5	-

PHASING DIAGRAM DETECTION LEGEND

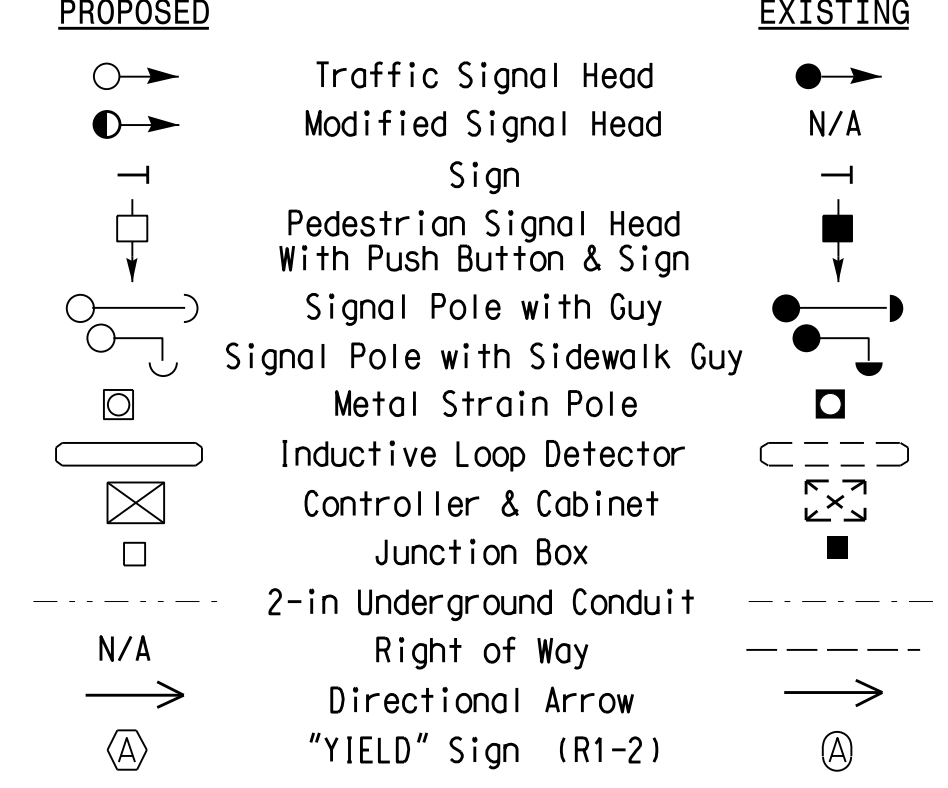


OASIS 2070 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	2.0	6.0	2.0	6.0	2.0	6.0	2.0	6.0
Max Green 1 *	35	90	30	40	50	90	25	30
Yellow Clearance	3.1	4.6	3.0	4.5	3.2	4.3	3.0	4.5
Red Clearance	4.1	2.0	3.3	2.2	3.4	2.1	2.9	1.6
Walk 1 *	-	-	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-	-	-
Seconds Per Actuation *	-	1.5	-	-	-	1.5	-	-
Max Variable Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	30	-	0	-	30	-	0
Time To Reduce *	-	45	-	20	-	45	-	15
Minimum Gap	-	3.0	-	3.0	-	3.0	-	3.0
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	-	-	-	-	-
Simultaneous Gap	ON	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.

LEGEND



Signal Upgrade

750 N. Greenfield Pkwy, Garner, NC 27529

US 421 (Carolina Beach Road) / NC 132 (College Road) at US 421 (Carolina Beach Road) / SR 1521 (Piner Road)

Division 3 New Hanover County Wilmington

PLAN DATE: July 2015 REVIEWED BY: PLA

PREPARED BY: WEDDLE REVIEWED BY:

SEAL

7/28/15

SCALE 0 40

1" = 40'

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