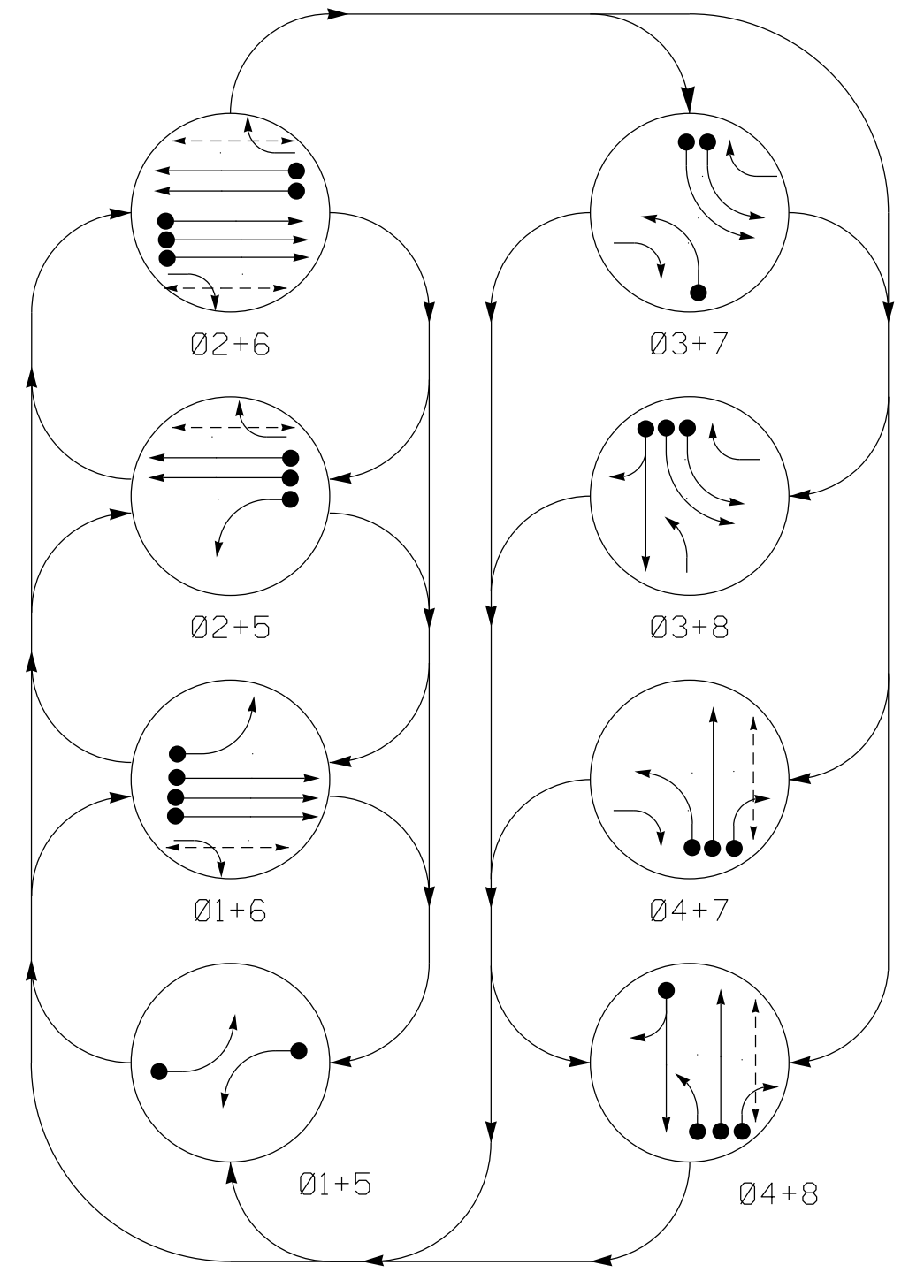


PHASING DIAGRAM



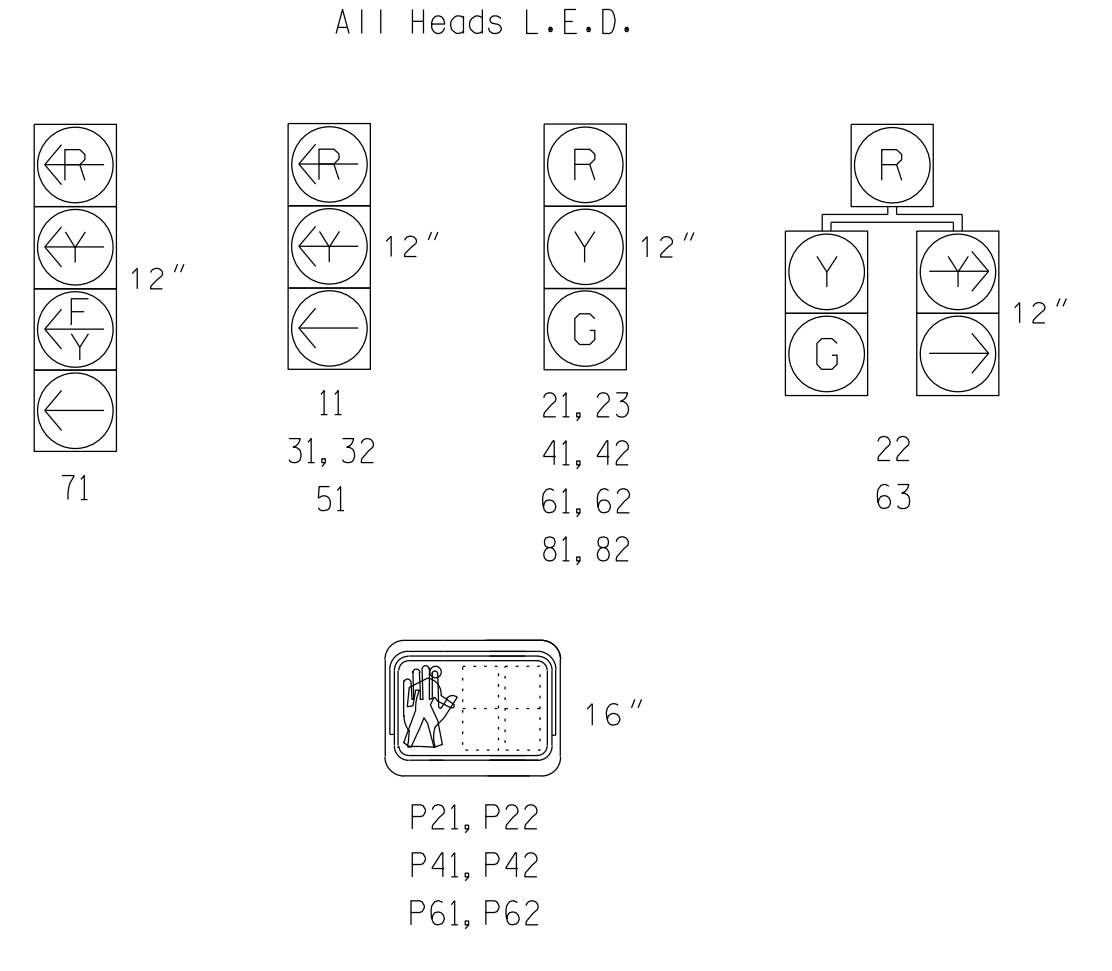
PHASING DIAGRAM DETECTION LEGEND

- ◄●► DETECTED MOVEMENT
- ◄◄◄ UNDETECTED MOVEMENT (OVERLAP)
- ◄◄◄ UNSIGNALIZED MOVEMENT
- ◄◄◄ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	02+6	03+7	04+8	01+6	02+5	03+8	04+7
11	←	←	←	←	←	←	←	←
21, 23	R	R	G	G	R	R	R	Y
22	R	R	G	G	R	R	R	Y
31, 32	←	←	←	←	←	←	←	←
41, 42	R	R	R	R	R	R	R	G
51	←	←	←	←	←	←	←	←
61, 62	R	G	R	G	R	R	R	Y
63	R	G	R	G	R	R	R	Y
71	←	←	←	←	←	←	←	←
81, 82	R	R	R	R	R	G	R	G
P21, P22	DW	DW	W	W	DW	DW	DW	DRK
P41, P42	DW	DW	DW	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	W	DW	DW	DW	DRK

SIGNAL FACE I.D.



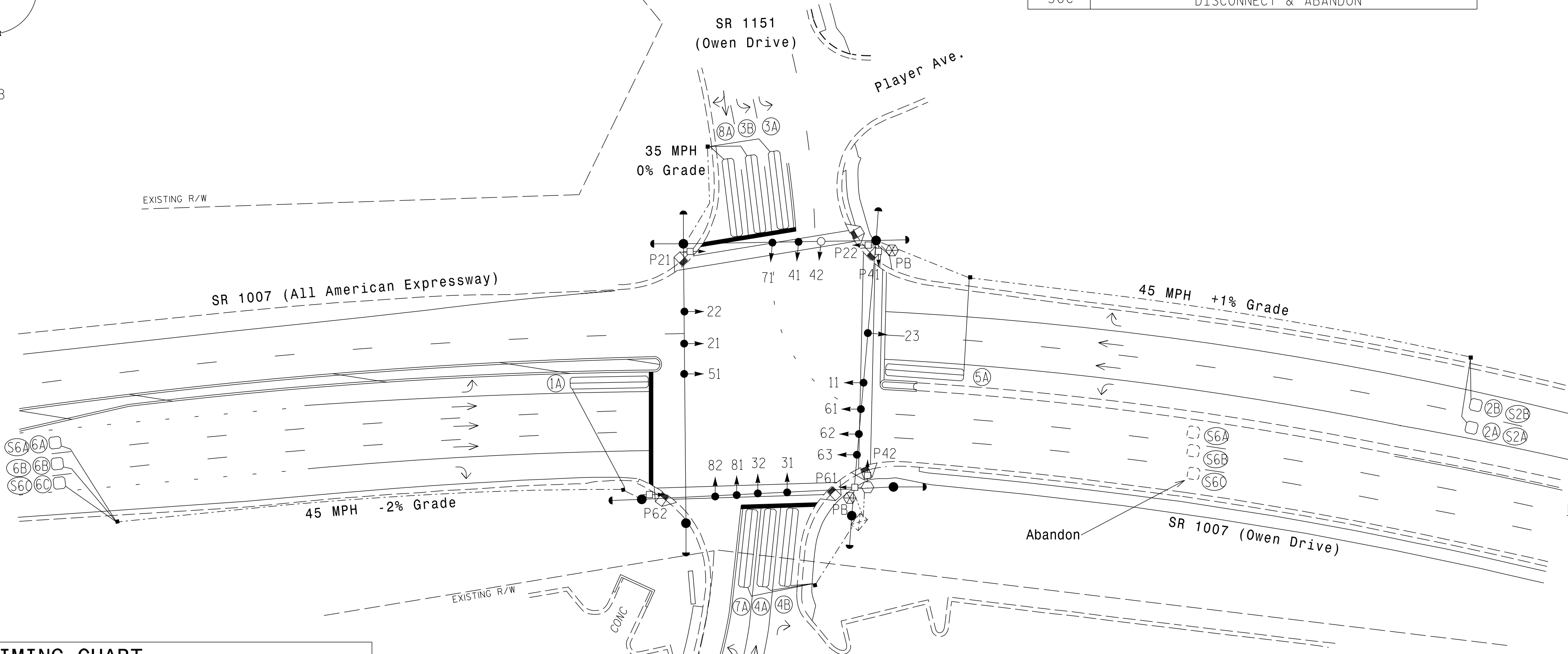
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY			STRETCH TIME
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	3	-
2A/S2A	6X6	300	5	Y	2	Y	Y	-	-	-	Y
2B/S2B	6X6	300	5	Y	2	Y	Y	-	-	-	Y
3A	6X40	0	2-4-2	Y	3	Y	Y	-	-	3	-
3B	6X40	0	2-4-2	Y	3	Y	Y	-	-	-	-
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-
4B	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	3	-
6A/S6A	6X6	300	4	Y	6	Y	Y	-	-	-	Y
6B/S6B	6X6	300	4	Y	6	Y	Y	-	-	-	Y
6C/S6C	6X6	300	4	Y	6	Y	Y	-	-	-	Y
7A	6X40	0	2-4-2	Y	7	Y	Y	-	-	15	-
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	-
S6A	DISCONNECT & ABANDON										
S6B	DISCONNECT & ABANDON										
S6C	DISCONNECT & ABANDON										

8 Phase Fully Actuated Fayetteville 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 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Set all detector units to presence mode.
- Abandon existing loops S6A, S6B, and S6C.
- 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.
- Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for push-button location details.
- Omit "Walk" and flashing "Don't Walk" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed loop system data: Controller Asset # 0324.



OASIS 2070 TIMING CHART

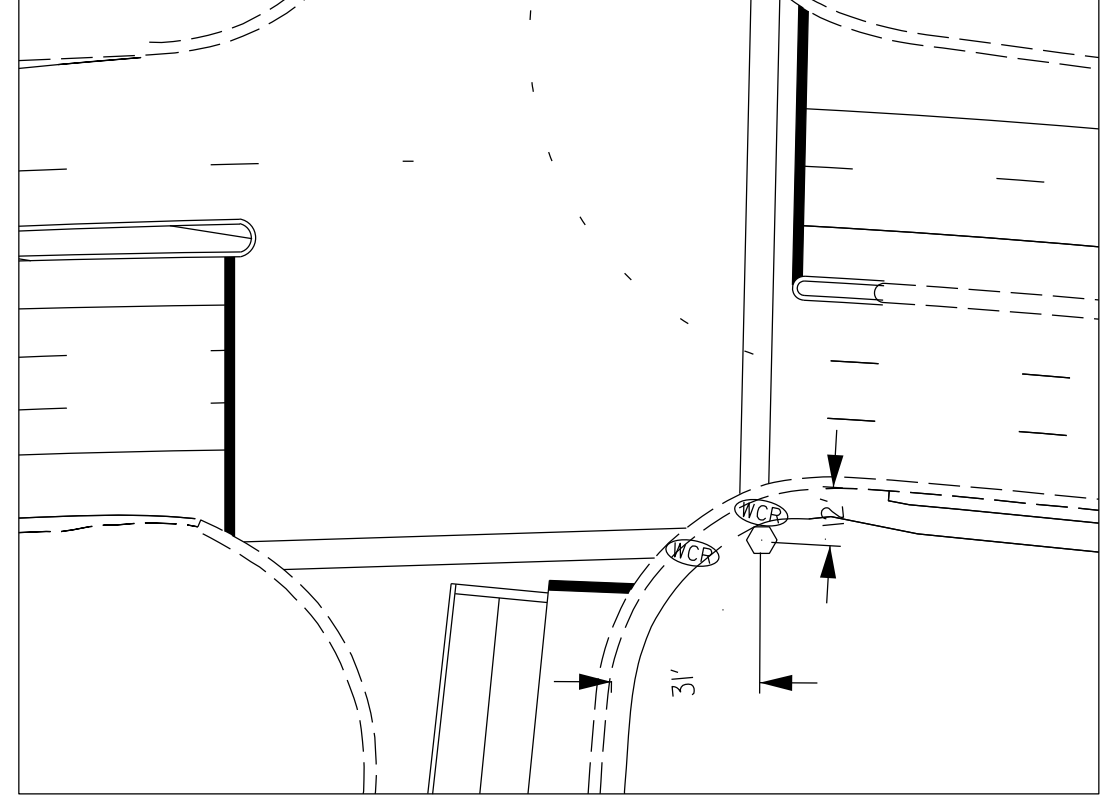
FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	1.0	2.0	1.0	1.0	1.0	2.0	1.0	1.0
Max Green 1 *	20	120	20	20	20	120	20	20
Yellow Clearance	3.0	4.4	3.0	3.8	3.0	4.7	3.0	3.8
Red Clearance	3.3	1.4	3.4	2.7	3.3	1.7	2.9	2.7
Walk 1 *	-	7	-	7	-	7	-	-
Don't Walk 1	-	22	-	27	-	20	-	-
Seconds Per Actuation *	-	1.5	-	-	-	1.0	-	-
Max Variable Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	30	-	-	-	30	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	-	-	-	-	ON
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

- | | | | |
|--|--|--|--|
| | Proposed Traffic Signal Head | | Existing Traffic Signal Head |
| | Proposed Modified Signal Head | | Existing Modified Signal Head |
| | Proposed Pedestrian Signal Head | | Existing Pedestrian Signal Head |
| | Proposed Signal Pole with Guy | | Existing Signal Pole with Guy |
| | Proposed Signal Pole with Sidewalk Guy | | Existing Signal Pole with Sidewalk Guy |
| | Proposed Inductive Loop Detector | | Existing Inductive Loop Detector |
| | Proposed Controller & Cabinet | | Existing Controller & Cabinet |
| | Proposed Junction Box | | Existing Junction Box |
| | Proposed 2-in Underground Conduit | | Existing 2-in Underground Conduit |
| | Proposed Right of Way | | Existing Right of Way |
| | Proposed Directional Arrow | | Existing Directional Arrow |
| | Proposed Type II Pedestal | | Existing Type II Pedestal |
| | Proposed Pedestrian Pushbutton | | Existing Pedestrian Pushbutton |
| | Proposed Stopbar | | Existing Stopbar |

PEDESTAL LOCATION

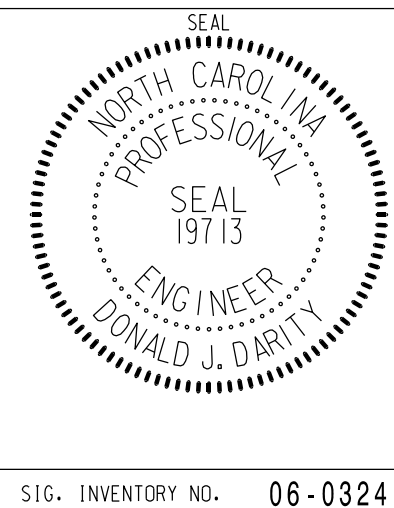


Signal Upgrade

Prepared for the Office of:

 Signal Design Section
 750 N. Greenfield Pkwy, Garner, NC 27529

SR 1007 (All American Expy/Owen Dr) at SR 1151 (Owen Dr/Walter Reed Rd)		
Division 6	Cumberland County	Fayetteville
PLAN DATE: April 2015	REVIEWED BY: J.L. Lewis	
PREPARED BY: D.J. Darity	VHB PROJECT NO.: 38286.03	
REVISIONS	INIT.	DATE



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