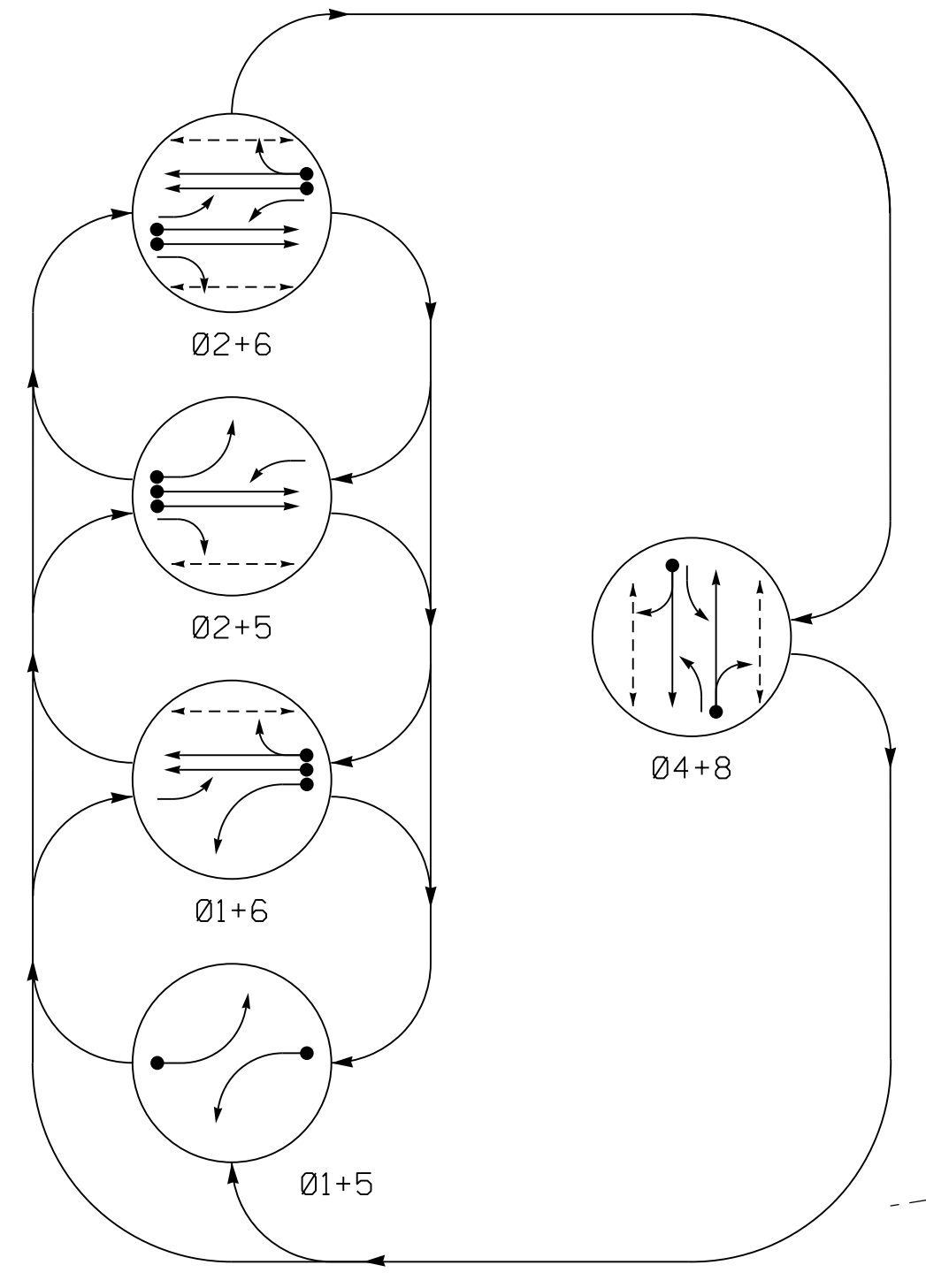


PHASING DIAGRAM



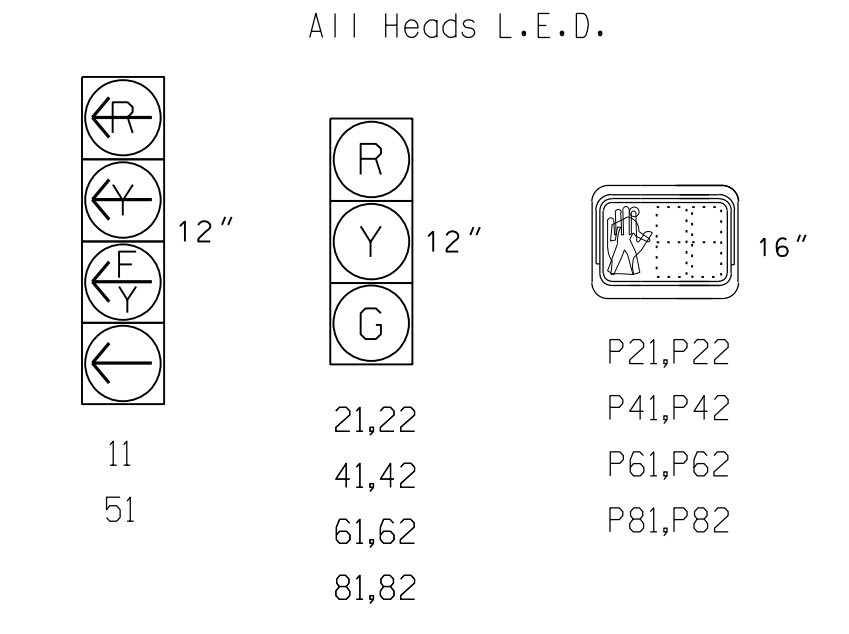
PHASING DIAGRAM DETECTION LEGEND

- ← ● → DETECTED MOVEMENT
- ← ○ → UNDETECTED MOVEMENT (OVERLAP)
- ← ○ → UNSIGNALIZED MOVEMENT
- ← ○ → PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8	F L TOP
11	←	←	←	←	←	←
21,22	R	R	G	G	R	Y
41,42	R	R	R	R	G	R
51	←	←	←	←	←	←
61,62	R	G	R	G	R	Y
81,82	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

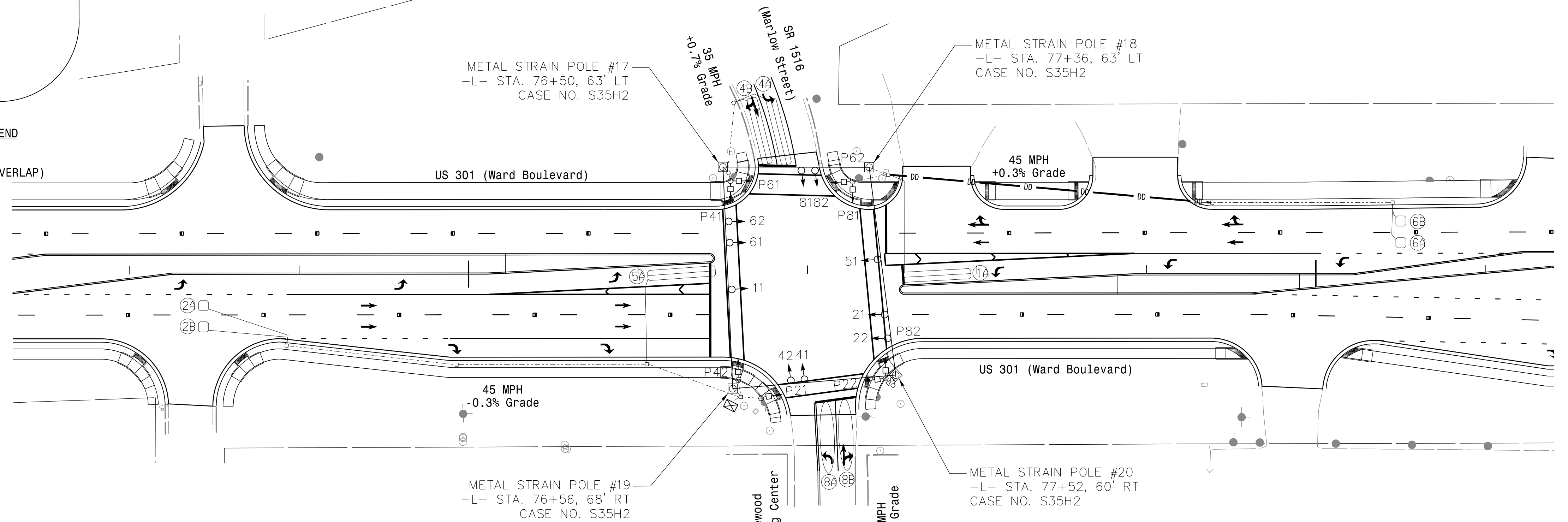
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6x40	Ø	2-4-2	Y	1	Y	Y	-	-	15	-	Y
2A	6x6	300	5	Y	2	Y	Y	-	-	-	-	Y
2B	6x6	300	5	Y	2	Y	Y	-	-	-	-	Y
4A	6x40	Ø	2-4-2	Y	4	Y	Y	-	-	3	-	Y
4B	6x40	Ø	2-4-2	Y	4	Y	Y	-	-	10	-	Y
5A	6x40	Ø	2-4-2	Y	5	Y	Y	-	-	15	-	Y
6A	6x6	300	5	Y	6	Y	Y	-	-	-	-	Y
6B	6x6	300	5	Y	6	Y	Y	-	-	-	-	Y
8A	6x40	Ø	*	Y	8	Y	Y	-	-	3	-	*
8B	6x40	Ø	*	Y	8	Y	Y	-	-	10	-	*

* Multi-Zone Microwave Detection

5-Phase Fully Actuated US 301 (Ward Boulevard) CLS

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.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "DON'T WALK" time only.
- Provide the Engineer with the manufacturer's approved detector locations and mounting heights to obtain detection zones as shown.
- 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 #0686.



OASIS 2070 TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	12	7	7	12	7
Extension 1 *	2.0	6.0	2.0	2.0	6.0	2.0
Max Green 1 *	20	50	30	20	50	30
Yellow Clearance	3.0	4.6	3.8	3.0	4.6	3.1
Red Clearance	2.9	1.5	2.6	2.6	1.5	3.3
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	4.0	4.0	-	4.0	4.0
Don't Walk 1	-	12	24	-	10	23
Seconds Per Actuation *	-	1.8	-	-	1.8	-
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	-	-	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.

LEGEND

- | PROPOSED | EXISTING |
|----------|----------|
| | |
| | N/A |
| | |
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| | |
| | |
| | |
| | N/A |
| | |
| | |
| | |
| | N/A |
| | |
| | |
| | |

Signal Upgrade

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Prepared in the Offices of:

 Kelly M. Cory
 Professional Engineer
 No. 038970
 State of North Carolina

US 301 (Ward Boulevard) at SR 1516 (Marlow Street)/ Fikewood Shopping Center
 Division 4 Wilson County Wilson
 PLAN DATE: June 2017 REVIEWED BY: W M Ruhman
 PREPARED BY: K M Cory REVIEWED BY:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

 Kelly M. Cory
 PROFESSIONAL ENGINEER
 No. 038970
 State of North Carolina

DATE: 8/4/2017
 SCALE: 1" = 40'

04-AUG-2017 11:01
 X:\PROJECTS\US_301_Ward\offices\signal\m\k\m\k\SIG-6.0.dgn
 KMCOR AT NCDRAW.CORP