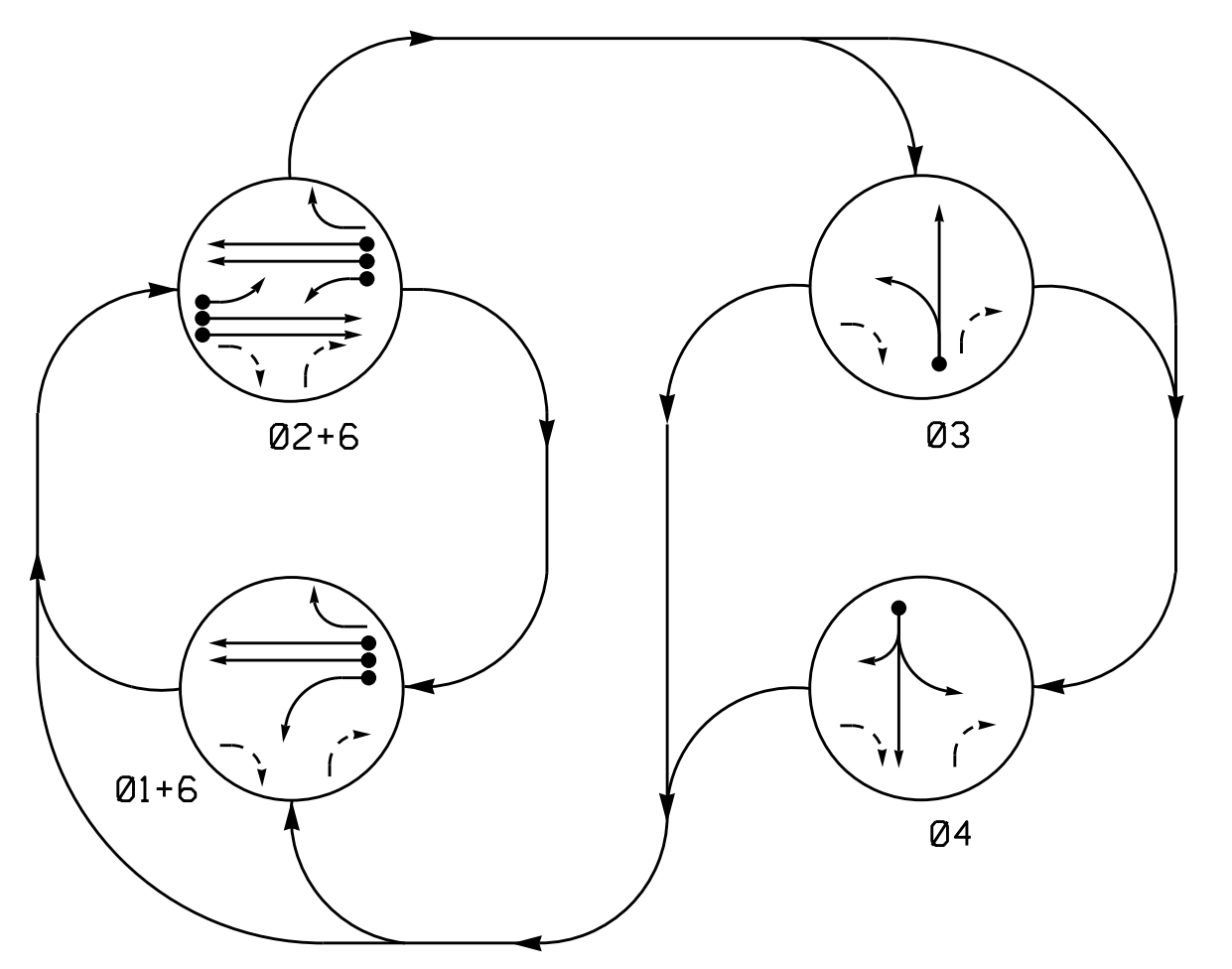


PHASING DIAGRAM



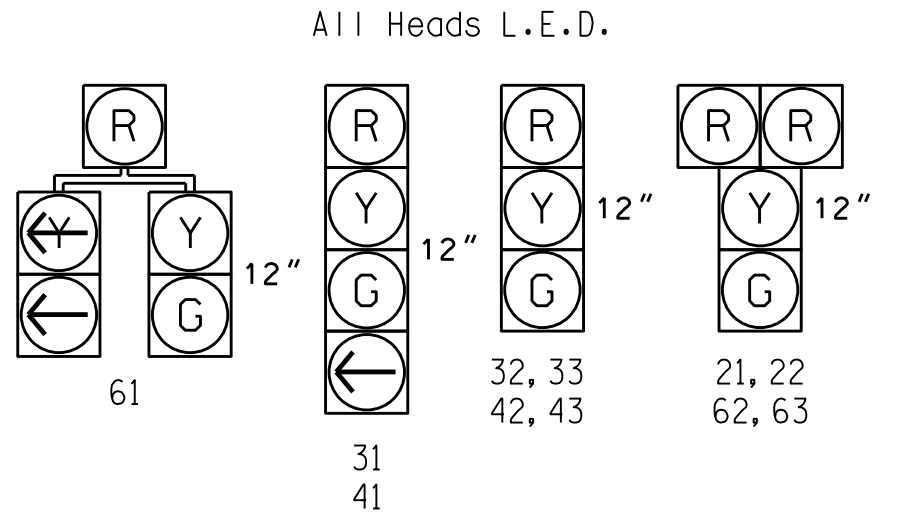
PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE				
	01+6	02+6	03	04	PEDEST
21, 22	R	G	R	R	Y
31	R	R	G	R	R
32, 33	R	R	G	R	R
41	R	R	R	G	R
42, 43	R	R	R	G	R
61	G	G	R	R	Y
62, 63	G	G	R	R	Y

SIGNAL FACE I.D.



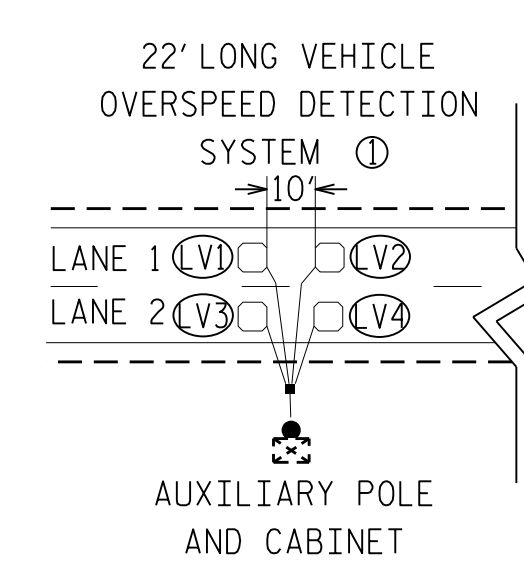
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTENSION	FULL TIME DELAY		
1A	6X40	0	2-4-2	Y	1	Y	Y	-	15	-
					6	Y	Y	Y	3	-
2A	6X6	420	5	Y	2	Y	Y	-	-	-
2B	6X6	420	5	Y	2	Y	Y	-	-	-
2C	6X40	0	2-4-2	Y	2	Y	Y	Y	3	-
3A	6X6	420	5	-	3	-	Y	-	3.2	-
3B	6X40	0	2-4-2	Y	3	Y	Y	-	5	-
4A	6X6	420	5	-	4	-	Y	-	3.8	-
4B	6X40	0	2-4-2	Y	4	Y	Y	-	10	-
6A	6X6	420	5	Y	6	Y	Y	-	-	-
6B	6X6	420	5	Y	6	Y	Y	-	-	-

4 Phase Fully Actuated Isolated

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.
- Enable Backup Protect for phase 6 to allow the controller to clear from phase 2+6 to phase 1+6 by progressing through an all red display.
- The order of phase 3 and phase 4 may be reversed.
- 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.



LEGEND

- | PROPOSED | EXISTING |
|----------|----------|
| | |
| | N/A |
| | |
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OASIS TIMING CHART

FEATURE	PHASE				
	1	2	3	4	6
Min Green 1*	7	20	7	7	20
Extension 1*	2.0	6.0	2.0	2.0	6.0
Max Green 1*	25	110	30	25	110
Yellow Clearance	3.0	5.3	5.3	5.3	5.3
Red Clearance	3.7	2.5	2.5	2.5	2.5
Red Revert	2.0	2.0	2.0	2.0	5.0
Walk 1*	-	-	-	-	-
Don't Walk 1	-	-	-	-	-
Seconds Per Actuation*	-	2.0	-	-	2.0
Max Variable Initial*	-	46	-	-	46
Time Before Reduction*	-	20	-	-	20
Time To Reduce*	-	60	-	-	60
Minimum Gap	-	4.0	-	-	4.0
Recall Mode	-	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON	ON

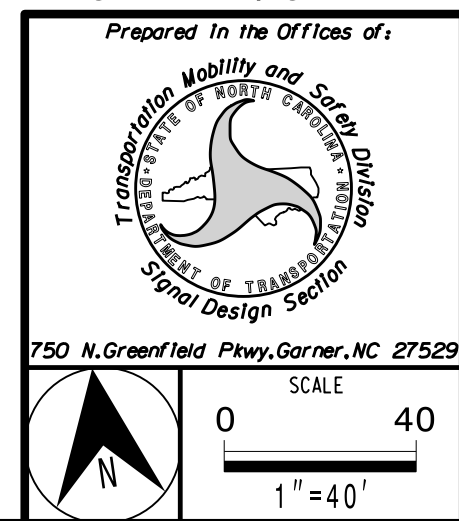
* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

LONG VEHICLE OVERSPEED DETECTION SYSTEM LOOP & DETECTION INSTALLATION CHART

LOOP NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	NEW	DETECTOR UNITS				TIMING	PLACE CALL DURING PHASE	INHIBIT DELAY DURING GREEN?	
					EXISTING	INDUCTIVE LOOP	CHANNEL	NEMA PHASE				
LV1	6'X6'	4	1015'	X	1	1	2	2*	NONE	- SEC.	ALL	NO
LV2	6'X6'	4	999'	X	1	1	2	2*	NONE	- SEC.	ALL	NO
LV3	6'X6'	4	1015'	X	2	2	2	2*	NONE	- SEC.	ALL	NO
LV4	6'X6'	4	999'	X	2	2	2	2*	NONE	- SEC.	ALL	NO
LV5	6'X6'	4	1015'	X	1	1	1	6*	NONE	- SEC.	ALL	NO
LV6	6'X6'	4	999'	X	1	1	2	6*	NONE	- SEC.	ALL	NO
LV7	6'X6'	4	1015'	X	2	2	2	6*	NONE	- SEC.	ALL	NO
LV8	6'X6'	4	999'	X	2	2	2	6*	NONE	- SEC.	ALL	NO
LVODS THRESHOLD SPEED (MPH)				55				2	6			
LVODS EXTEND TIME				12 SEC.				2	6			

*Phase hold output to controller

Signal Upgrade



US 74-76 (Andrew Jackson Hwy) at NC 87 (Maco Road) / SR 1419 (Northwest Road)

Division 3 Brunswick County Maco

PLAN DATE: January 2016 REVIEWED BY: JG

PREPARED BY: PLA REVIEWED BY:

REVISIONS INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

PAMELA L. ALEXANDER ENGINEER

2/9/16

SIG. INVENTORY NO. 03-0170

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