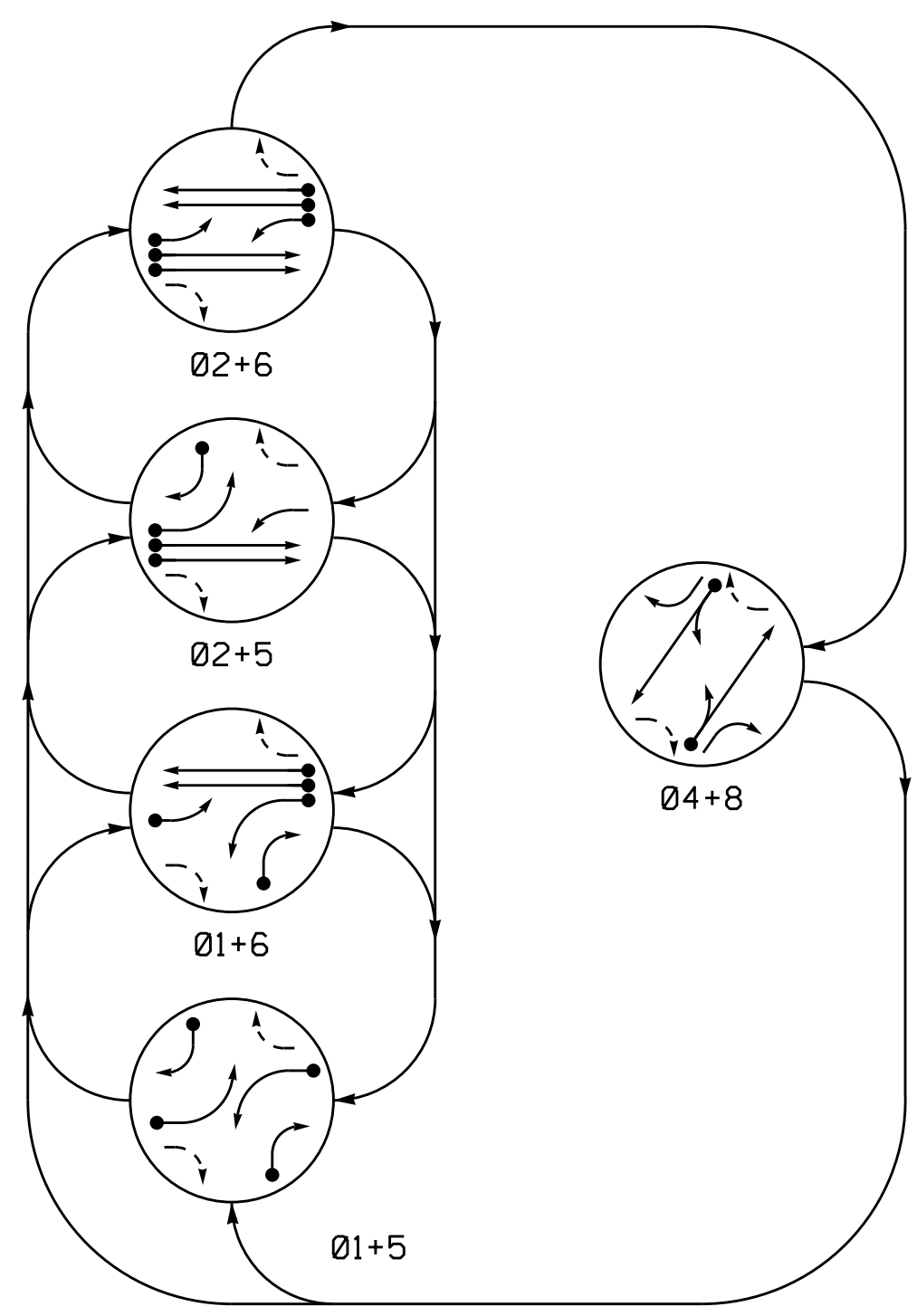


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	FLASH
11	←	←	←	←	←	←
21,22	R	R	G	G	R	Y
23,24,25,26	ON	ON	OFF	OFF	ON	OFF
41,43	R	R	R	R	G	R
42	R	R	R	R	G	R
51	←	←	←	←	←	←
61,62	R	G	R	G	R	Y
63,64,65,66	ON	OFF	ON	OFF	ON	OFF
81,83	R	R	R	R	G	R
82	R	R	R	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.

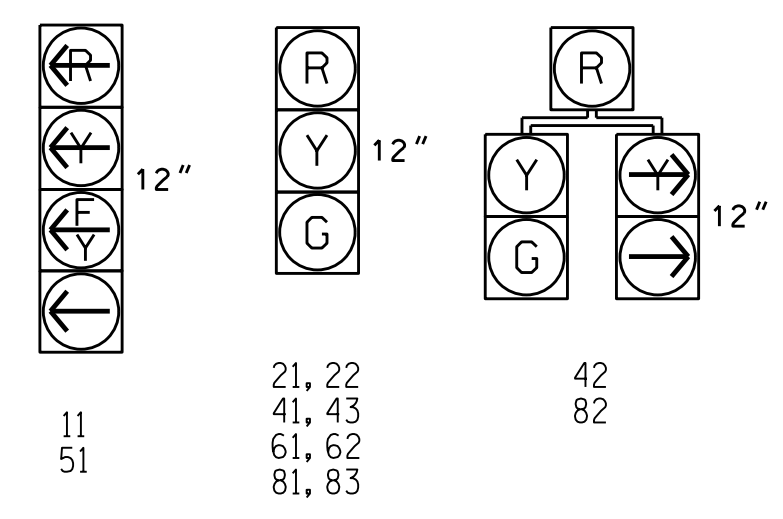
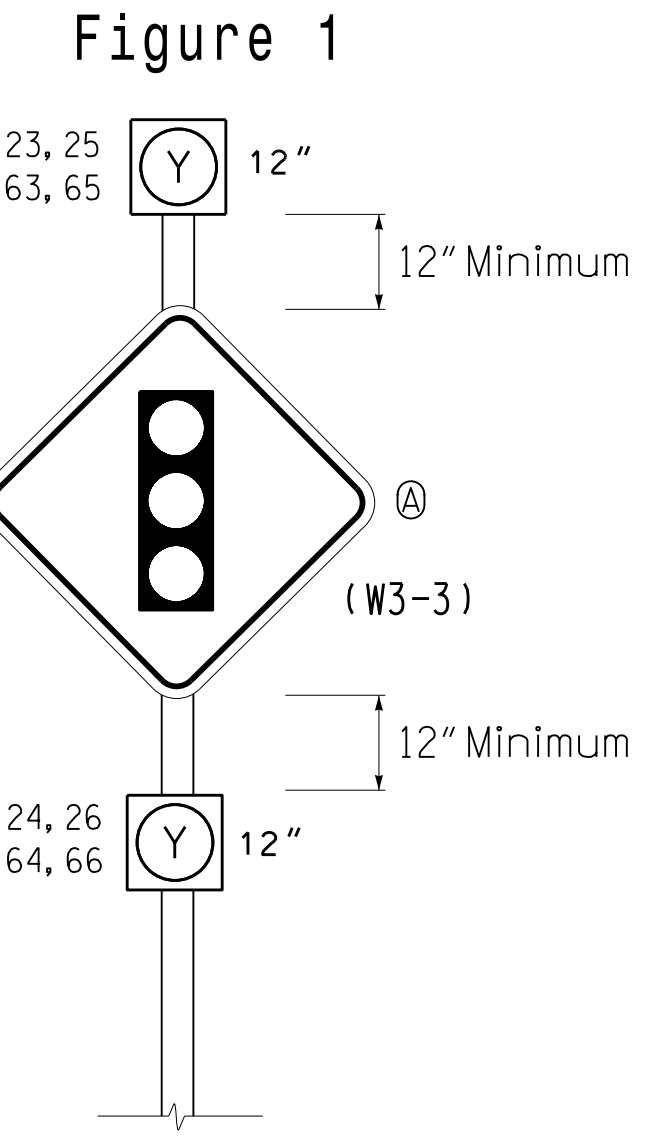


TABLE OF OPERATION

SIGNAL FACE	INTERVAL	
	1	2
23,25	ON	OFF
24,26	OFF	ON
63,65	ON	OFF
64,66	OFF	ON



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

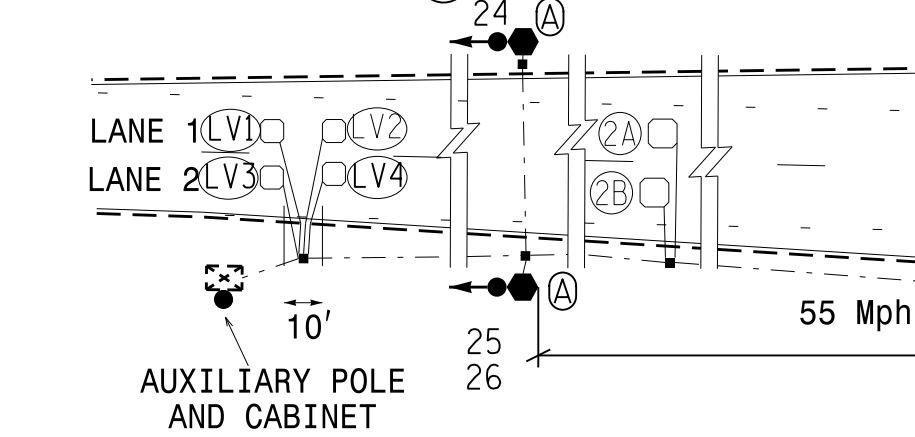
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTENSION	STRETCH TIME		
1A	6X40	0	2-4-2	Y	1	Y	Y	-	15	-
1B	6X40	0	2-4-2	Y	1	Y	Y	-	15	-
2A	6X6	420	5	Y	2	Y	Y	-	-	-
2B	6X6	420	5	Y	2	Y	Y	-	-	-
4A	6X40	0	2-4-2	Y	4	Y	Y	-	3	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	15	-
5B	6X40	0	2-4-2	Y	5	Y	Y	-	15	-
6A	6X6	420	5	Y	6	Y	Y	-	-	-
6B	6X6	420	5	Y	6	Y	Y	-	-	-
8A	6X40	0	2-4-2	Y	8	Y	Y	-	3	-

5 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.
- Phase 1 and/or phase 5 may be lagged.
- Set all detector units to presence mode.
- Activate flashers at the end of green for phase 2 and/or phase 6.

22' LONG VEHICLE OVERSPEED DETECTION SYSTEM



OASIS 2070 TIMING CHART

FEATURE	PHASE							
	1	2	4	5	6	8		
Min Green 1 *	7	14	10	7	14	10		
Extension 1 *	2.0	6.0	2.0	2.0	6.0	2.0		
Max Green 1 *	20	60	20	35	20	20		
Yellow Clearance	3.2	5.2	5.1	3.2	5.2	5.0		
Red Clearance	3.3	2.0	2.3	3.2	2.0	2.4		
Walk 1 *	-	-	-	-	-	-		
Don't Walk 1	-	-	-	-	-	-		
Seconds Per Actuation *	-	1.5	-	-	1.5	-		
Max Variable Initial *	-	46	-	-	46	-		
Time Before Reduction *	-	15	-	-	15	-		
Time To Reduce *	-	45	-	-	45	-		
Minimum Gap	-	3.4	-	-	3.4	-		
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.

LONG VEHICLE OVERSPEED DETECTION SYSTEM LOOP & DETECTION INSTALLATION CHART

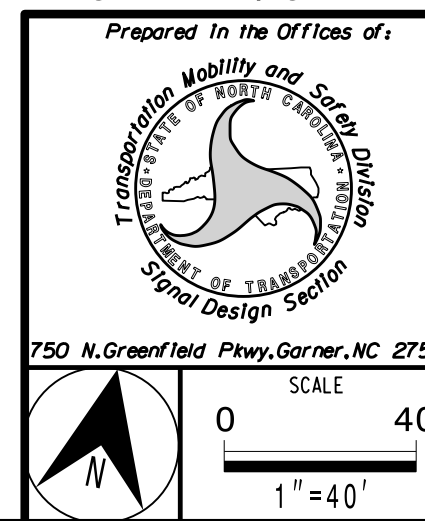
INDUCTIVE LOOPS				DETECTOR UNITS								
LOOP NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	EXISTING	NEW	LANE NO.	CH. NO.	NEMA PHASE	FEATURE	TIME	PLACE CALL DURING PHASE	INHIBIT DELAY DURING GREEN?
LV1	6X6	6	1015	X		1	1	*2	NONE	- SEC.	ALL	NO
LV2	6X6	6	999	X		1	2	*2	NONE	- SEC.	ALL	NO
LV3	6X6	6	1015	X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

*PHASE HOLD OUTPUT TO CONTROLLER

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 |
| ○ 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 |
| ○ Right of Way | ○ Right of Way |
| ○ Directional Arrow | ○ Directional Arrow |
| ○ Signal Pedestal | ○ Signal Pedestal |
| ○ Metal Strain Pole | ○ Metal Strain Pole |
| ○ Signal Ahead Sign (W3-3) | ○ Signal Ahead Sign (W3-3) |
| ○ ("U-TURN YIELD TO RIGHT TURN" Sign (R10-16)) | ○ ("U-TURN YIELD TO RIGHT TURN" Sign (R10-16)) |

Signal Upgrade



US 17 (Ocean Highway) at SR 1304 (Pea Landing Road) / SR 1165 (Thomasboro Road)

Division 3 Brunswick County Near Sunset Beach

PLAN DATE: December 2009 REVIEWED BY: [Signature]

PREPARED BY: I. O. Umzurike REVIEWED BY: [Signature]

REVISIONS: [Table with columns for REVISIONS, INSTALLED, CLEARANCE, TIMES (KGP), DATE]

DATE: 7/17/2015

SIGNATURE: [Signature] DATE: [Blank]

SIG. INVENTORY NO. 03-0416

REVISION SEAL

PAULELLA L. ALEXANDER

SEAL 023489

DATE: 7/17/2015

SEAL

Not a certified document as to the Original Document but Only as to the Revisions - This document originally Issued and sealed by Jason P. Galloway, PE-029904 on 12/18/2009

This document is only certified as to the revisions.

SIGNATURE: [Signature] DATE: [Blank]

SIG. INVENTORY NO. 03-0416

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