

3 Phase Fully Actuated Asheville 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 may be lagged.
- 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.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM

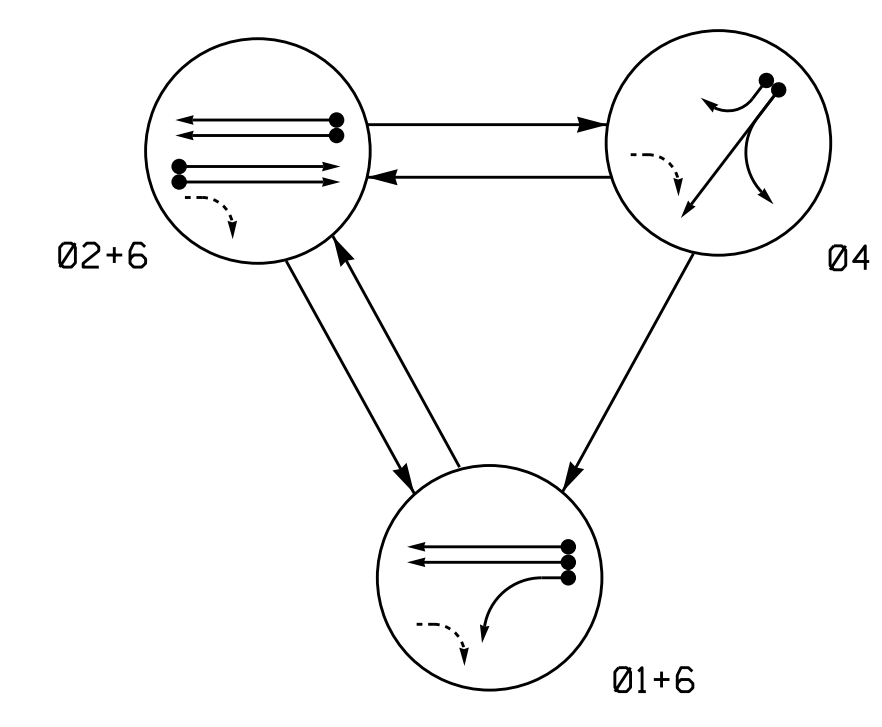
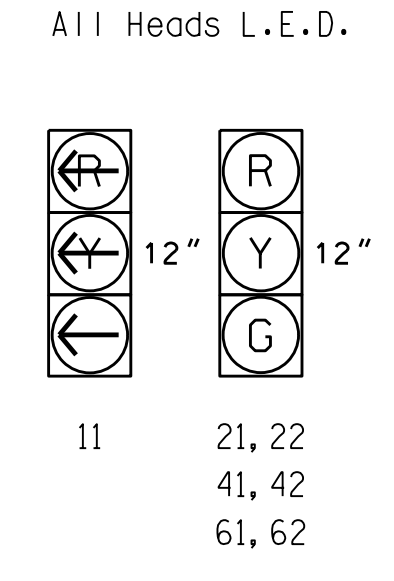


TABLE OF OPERATION

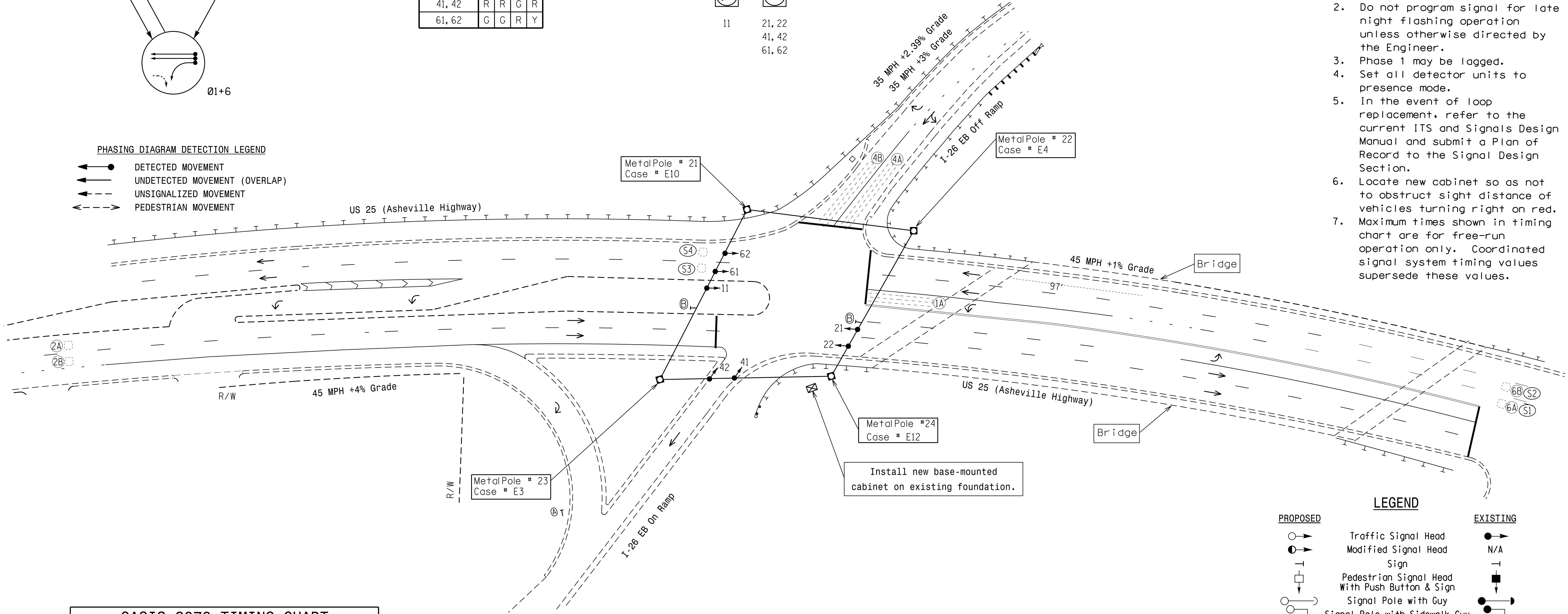
SIGNAL FACE	PHASE			
	01+6	02+6	04	F
11	←	←	←	←
21, 22	R	G	R	Y
41, 42	R	R	G	R
61, 62	G	G	R	Y

SIGNAL FACE I.D.



PHASING DIAGRAM DETECTION LEGEND

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



OASIS 2070 TIMING CHART

FEATURE	PHASE			
	1	2	4	6
Min Green 1 *	7	12	7	12
Extension 1 *	2.0	8.0	2.0	8.0
Max Green 1 *	25	100	30	100
Yellow Clearance	3.0	4.4	3.7	4.4
Red Clearance	3.2	1.2	2.3	1.2
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	1.8	-	1.8
Max Variable Initial *	-	52	-	52
Time Before Reduction *	-	15	-	15
Time To Reduce *	-	50	-	50
Minimum Gap	-	6.0	-	6.0
Recall Mode	-	MIN RECALL	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	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.

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS				DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X50	0	2-4-2	-	1	Y	Y	-	3	-	Y
2A	6X6	475	5	-	2	Y	Y	-	-	-	Y
2B	6X6	475	5	-	2	Y	Y	-	-	-	Y
4A	6X60	0	2-4-2	-	4	Y	Y	-	-	-	Y
4B	6X60	0	2-4-2	-	4	Y	Y	-	15	-	Y
6A/S1	6X6	475	5	-	6	Y	Y	-	-	Y	Y
6B/S2	6X6	475	5	-	6	Y	Y	-	-	Y	Y
S3	6X6	+120	4	-	-	Y	Y	-	-	-	Y
S4	6X6	+120	4	-	-	Y	Y	-	-	-	Y

LEGEND

- | PROPOSED | EXISTING |
|----------|----------|
|          |          |
|          | N/A      |
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Signal Upgrade

Prepared In the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 25 (Asheville Highway) at I-26 EB Off Ramp

Division 14 Henderson County Hendersonville

PLAN DATE: December 2015 REVIEWED BY: T. Williams

PREPARED BY: M. Mahbooba REVIEWED BY:

REVISIONS: INIT. DATE

SCALE: 0 40 1"=40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: J. Williams, 8/8/2016

SIG. INVENTORY NO. 14-0901

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