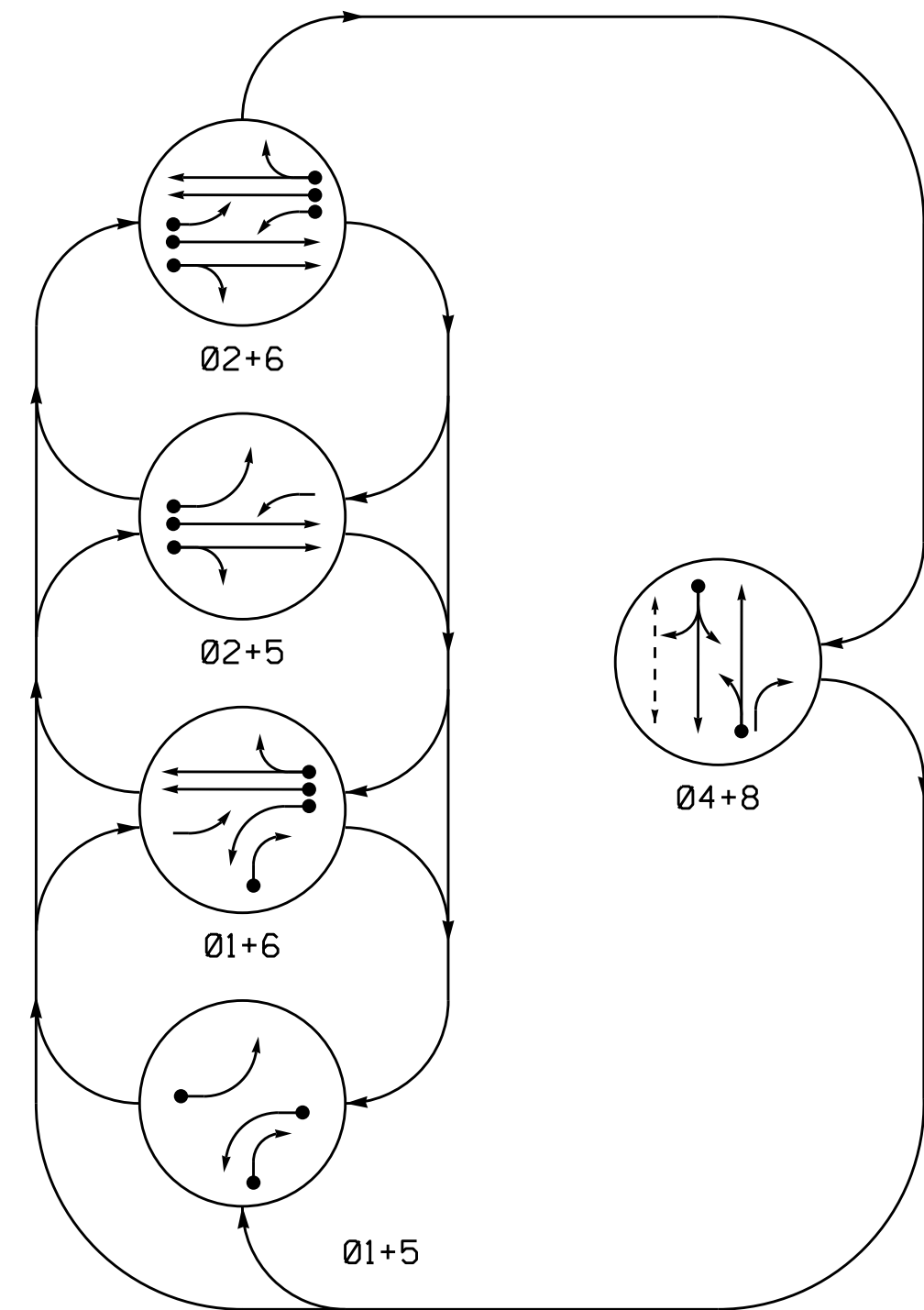


PHASING DIAGRAM



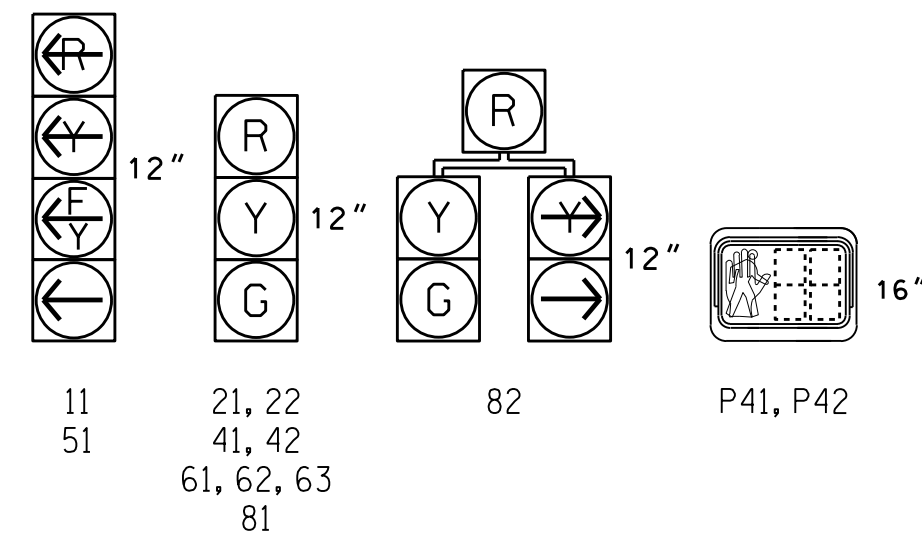
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE				
	01+5	01+6	02+5	02+6	FLASH
11	--	F	F	R	Y
21, 22	R	R	G	R	Y
41, 42	R	R	R	G	R
51	--	F	F	R	Y
61, 62, 63	R	G	R	G	R
81	R	R	R	G	R
82	R	R	R	G	R
P41, P42	DW	DW	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.

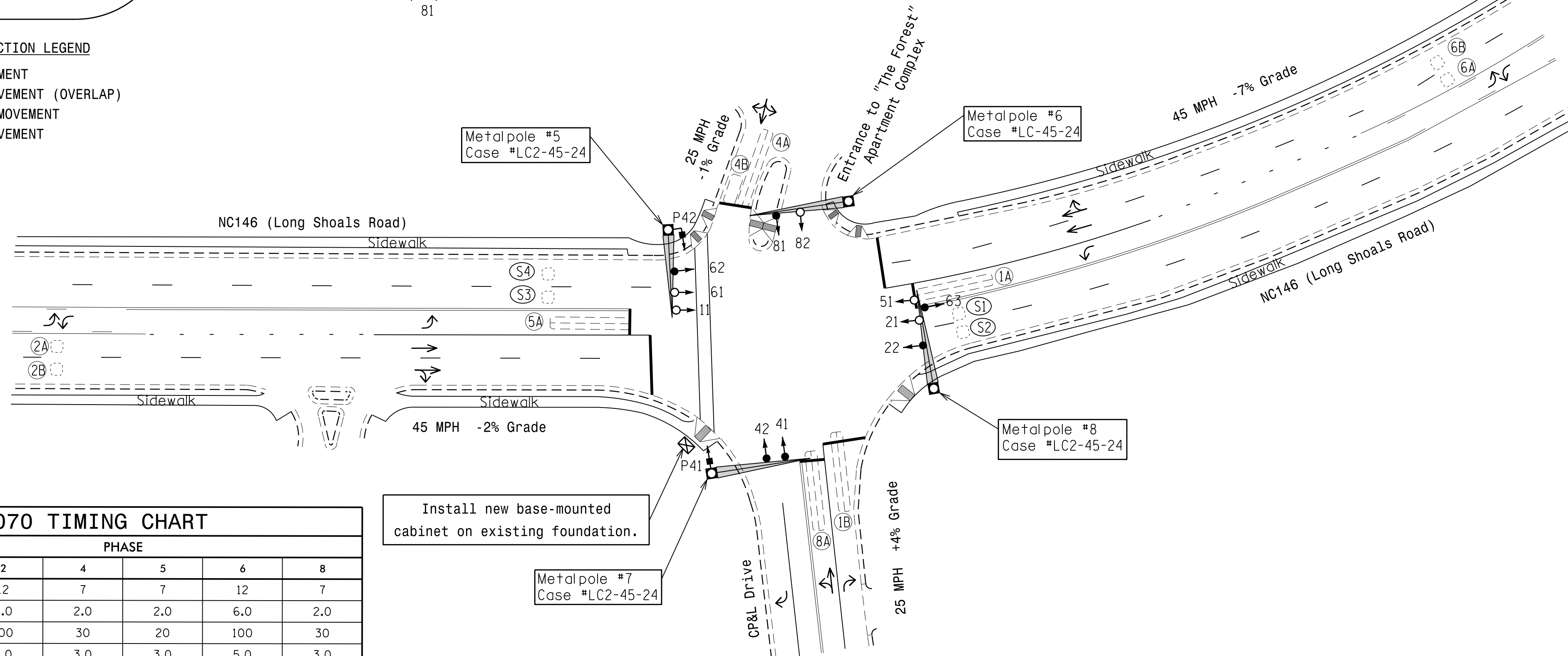


OASIS 2070 LOOP & DETECTOR INSTALLATION CHART											
INDUCTIVE LOOPS						DETECTOR PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP
1A	6X40	0	2-4-2	-	1	Y	Y	-	-	15	- Y
					6	Y	Y	Y	-	3	- Y
1B	6X40	+5	2-4-2	-	1	Y	Y	-	-	15	- Y
2A	6X6	300	4	-	2	Y	Y	-	-	-	- Y
2B	6X6	300	4	-	2	Y	Y	-	-	-	- Y
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	3	- Y
4B	6X15	0	4	-	4	Y	Y	-	-	10	- Y
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	15	- Y
					2	Y	Y	Y	-	3	- Y
6A	6X6	300	4	-	6	Y	Y	-	-	-	- Y
6B	6X6	300	4	-	6	Y	Y	-	-	-	- Y
8A	6X40	+5	2-4-2	-	8	Y	Y	-	-	3	- Y
S1	6X6	+148	4	-	-	-	-	-	-	-	- Y Y
S2	6X6	+148	4	-	-	-	-	-	-	-	- Y Y
S3	6X6	+164	4	-	-	-	-	-	-	-	- Y Y
S4	6X6	+164	4	-	-	-	-	-	-	-	- Y Y

5 Phase Fully Actuated Asheville Signal System

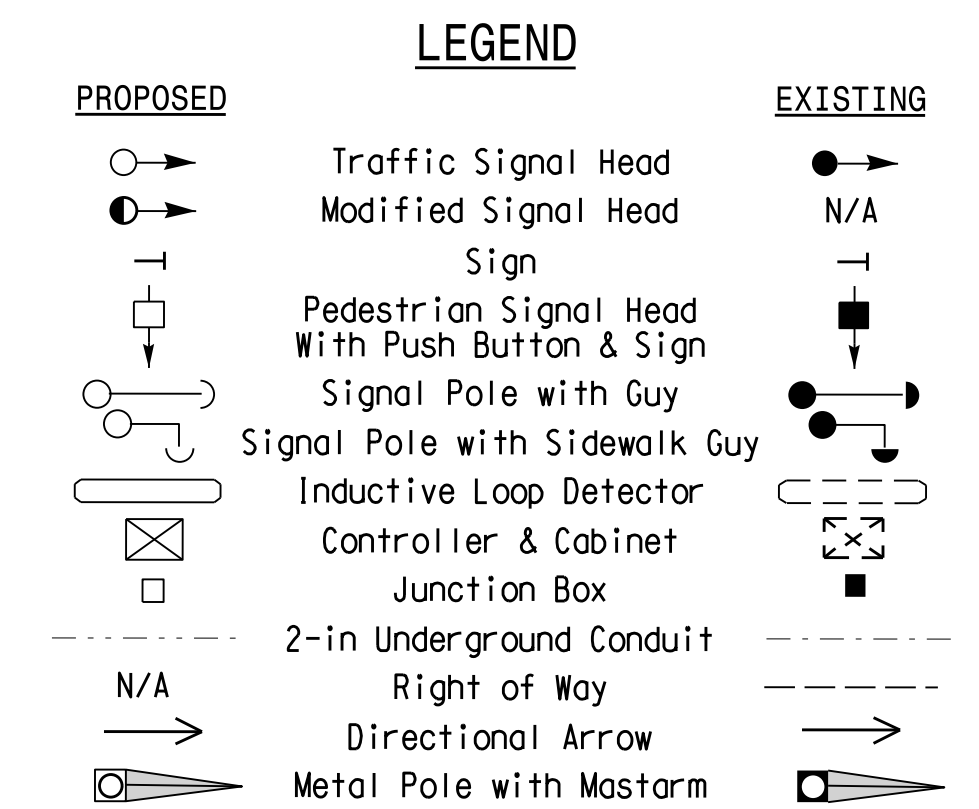
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Reposition existing signal heads numbered 22 & 62 as needed.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
9. Pavement markings are existing.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



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	100	30	20	100	30
Yellow Clearance	3.1	5.0	3.0	3.0	5.0	3.0
Red Clearance	2.9	1.6	3.3	2.8	1.6	3.3
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	7	-	-	-
Don't Walk 1	-	-	23	-	-	-
Seconds Per Actuation *	-	1.5	-	-	1.5	-
Max Variable Initial *	-	34	-	-	34	-
Time Before Reduction *	-	20	-	-	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.



Signal Upgrade

NC 146 (Long Shoals Road) at CP&L Drive / Entrance To "The Forest" Apartment Complex

Division 13 Buncombe County Asheville

PLAN DATE: June 2016 REVIEWED BY: P. Alexander

PREPARED BY: M. Mahbooba REVIEWED BY:

REVISIONS INIT. DATE

Scale: 1" = 40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Seal of Timothy J. Williams, Professional Engineer, License No. 024393, dated 9/1/2016.

SIG. INVENTORY NO. 13-0954

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