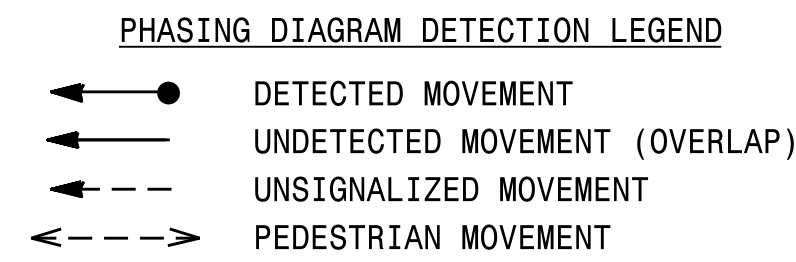
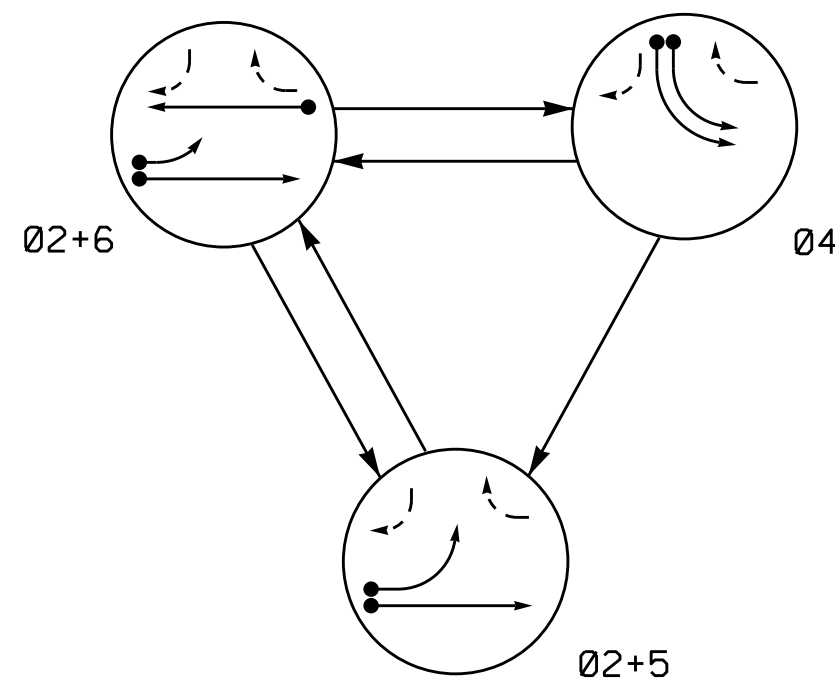


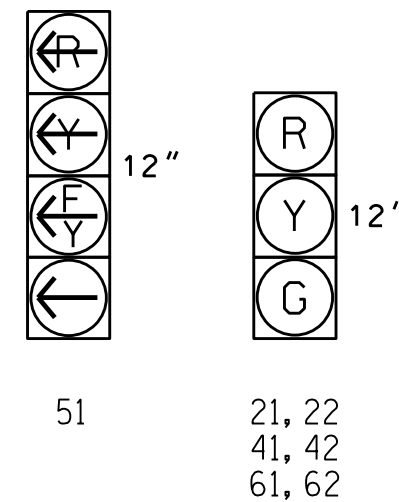
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	0 2 + 5	0 2 + 6	0 4	F L
21, 22	G	G	R	Y
41, 42	R	R	G	R
51	---	---	---	---
61, 62	R	G	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.

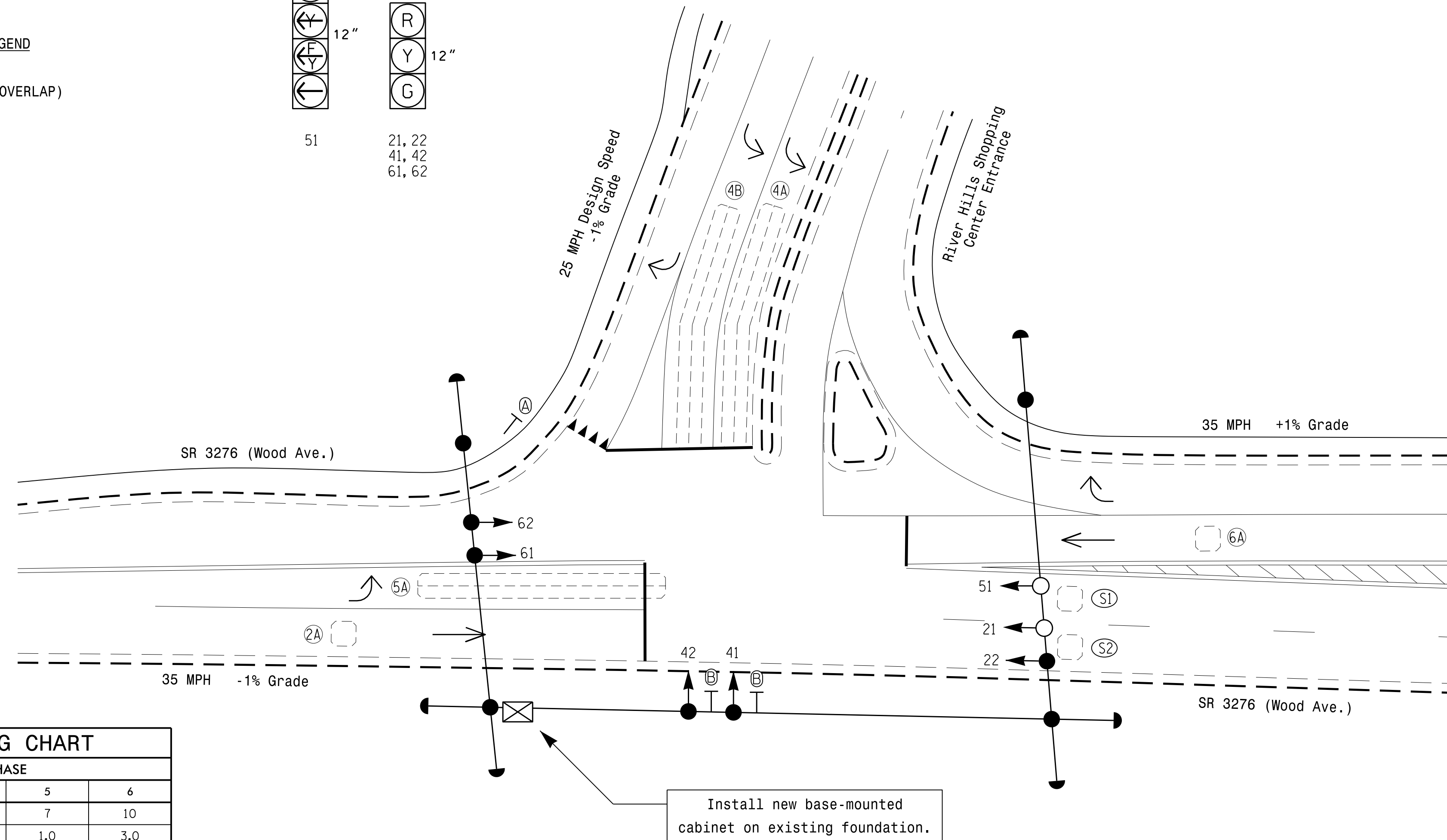


OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME			DELAY TIME
2A	6X6	70	EXIST	-	2	Y	Y	-	-	-	-	Y
4A	6X60	0	2-4-2	-	4	Y	Y	-	-	-	-	Y
4B	6X60	0	2-4-2	-	4	Y	Y	-	-	-	-	Y
5A	6X60	+5	2-4-2	-	5	Y	Y	-	-	15	-	Y
6A	6X6	70	EXIST	-	6	Y	Y	-	-	-	-	Y
S1	6X6	+100	4	-	-	-	-	-	-	-	-	Y
S2	6X6	+100	4	-	-	-	-	-	-	-	-	Y

3 Phase Fully Actuated Asheville Signal System

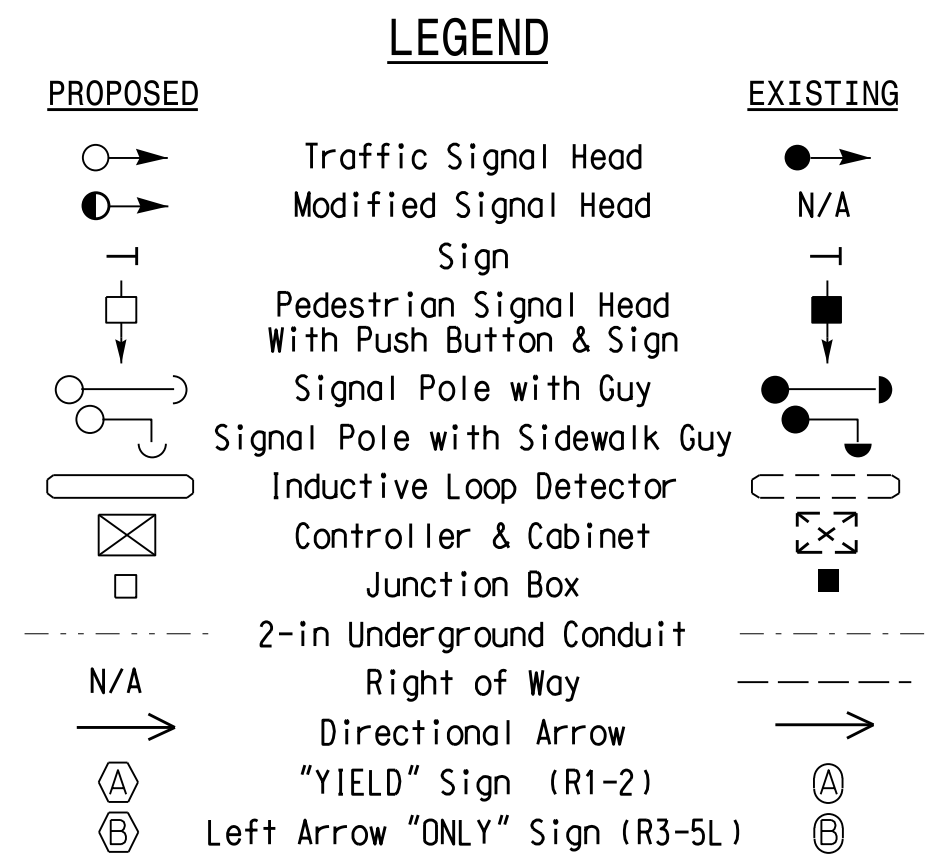
NOTES

- 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 5 may be lagged.
- Reposition existing signal head number 22.
- 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.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



OASIS 2070 TIMING CHART				
FEATURE	PHASE			
	2	4	5	6
Min Green 1 *	10	7	7	10
Extension 1 *	3.0	1.0	1.0	3.0
Max Green 1 *	45	25	15	45
Yellow Clearance	3.9	3.0	3.0	3.9
Red Clearance	1.3	2.1	1.6	1.3
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
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.



Install new base-mounted cabinet on existing foundation.

02-065-2016 10/21
 S:\ITS\ASU\ITS_Signal\Signal\Signal Design\Signal System\Signal Design\13-1065\13-1065\Sig.dgn
 2016mdd-dgn
 R.N.Zinsler

Signal Upgrade

Prepared In the Offices of:

 Richard N. Zinsler, Professional Engineer

SR 3276 (Wood Ave.) at River Hills Shopping Center Entrance

Division 13 Buncombe County Asheville

PLAN DATE: June 2016 REVIEWED BY: P.L. Alexander

PREPARED BY: R.N. Zinsler REVIEWED BY:

REVISIONS: _____ INIT. DATE

SCALE: 0 20
1"=20'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 RICHARD N. ZINSLER
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 LICENSE NO. 043914

Richard N. Zinsler 9/22/2016
 F:\3888734722485 DATE

SIG. INVENTORY NO. 13-1065