

USE RED REVERT FOR PHASE 6

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT

PEDESTRIAN MOVEMENT

3 Phase Semi-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. 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
- 3. Reposition existing signal head 62 as shown.
- 4. Install new signal cable as necessary for new and repositioned signal heads.

calls for phases 4 and 8.

- 5. Set all detector units to presence mode.
- 6. Program the pedestrian heads to countdown
- "Don't Walk" time only. 7. Omit "WALK" and "Don't Walk" for no pedestrian
- 8. 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.
- 9. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on
- nent markings are existing except where noted ne plan.
- num times shown in timing chart are for run operation only. Coordinated signal em timing values supersede these values.

LEGEND

Fairview Road sidewalk	existin	ng	P61 **	35 mph +1.4% grade <	9. Locate is sight dired. 10. Pavement on the part of the part of the part of the part of the system
	P42 * 62	81 82	P81 = =	sidewalk	
Aerial Guy	61				
sidewalk		21 -	·	(1A) V	
30 mph -0.5% grade	reinstall * P41 P22	41 🗸	P82 existing		
	Elementary School	P21		Fairview Road	PROPOSED

reinstall

OASIS 2070 TIMING CHART							
	PHASE						
FEATURE	1	2	4	6	8		
Min Green 1 *	7	10	7	10	7		
Extension 1 *	1.0	3.0	1.0	3.0	1.0		
Max Green 1 *	15	40	20	40	20		
Yellow Clearance	3.0	3.9	3.3	3.9	3.7		
Red Clearance	3.2	3.1	2.5	3.1	2.5		
Red Revert	2.0	2.0	2.0	5.0	2.0		
Walk 1 *	-	7	7	7	7		
Don't Walk 1	-	11	7	11	14		
Seconds Per Actuation *	-	-	-	-	-		
Max Variable Initial *	-	_	-	-	-		
Time Before Reduction *	-	-	-	-	-		
Time To Reduce *	-	-	-	-	-		
Minimum Gap	-	-	-	-	-		
Recall Mode **	-	MAX/PED	-	MAX/PED	-		
Vehicle Call Memory	-	-	-	-	-		
Dual Entry	-	-	ON	-	ON		
Simultaneous Gap	ON	ON	ON	ON	ON		

** May be changed to Min Recall by Time of Day at discretion of City Engineer.

				<u>PROPOSED</u>		<u>EXISTING</u>
				\bigcirc	Traffic Signal Head	
		`_		O ->	Modified Signal Head	N/A
re	einstall // //				Sign	
	8A			↓	Pedestrian Signal Head	•
		Oatley		*	Ped Pushbutton & Sign	*
		Ye,			Signal Pedestal	•
, ,		Rodo			Signal Pole with Guy	Jy • • • • • • • • • • • • • • • • • • •
	// //	No.		<u> </u>	ignal Pole with Sidewalk Gu	
$\langle \mathcal{V}_{\mathcal{A}} \rangle$					Inductive Loop Detector	
	mph grade				Controller & Cabinet	
	/ QW/				Junction Box	
B_{0}	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				2-in Underground Conduit	. — - — - — -
φ / '	/ ~ /			N/A	Right of Way	
o / / /	// ' '			\longrightarrow	Directional Arrow	\longrightarrow
$0^{\eta t_{oldsymbol{eta}'}}$	// ,'		Signal Upgrade			
/	, ,		Prepared for the Offices of:	Fai	rview Road	S
						11111

Fairview Road Baldwin Street , Onteora Boulevard

Division 13 Asheville PLAN DATE: September 2016 REVIEWED BY: MB Toth

PREPARED BY: AM Encarnacion REVIEWED BY: REVISIONS INIT. DATE



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Melissa B. Toth

SIG. INVENTORY NO.