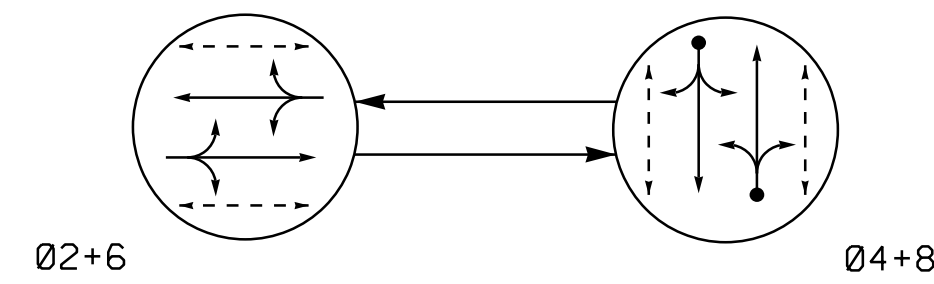


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- ←- - -> UNSIGNALIZED MOVEMENT
- ←- - -> PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02+6	04+8	FLASH
21,22	G	R	Y
41,42	R	G	R
61,62	G	R	Y
81,82	R	G	R
P21,P22	W	DW	DRK
P41,P42	DW	W	DRK
P61,P62	W	DW	DRK
P81,P82	DW	W	DRK

W - Walk
 DW - Don't Walk
 DRK - Dark

OASIS 2070E LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
4A	EXIST	0	2-4-2	-	4	Y	Y	-	-	5	-	Y
8A	EXIST	0	2-4-2	-	8	Y	Y	-	-	5	-	Y

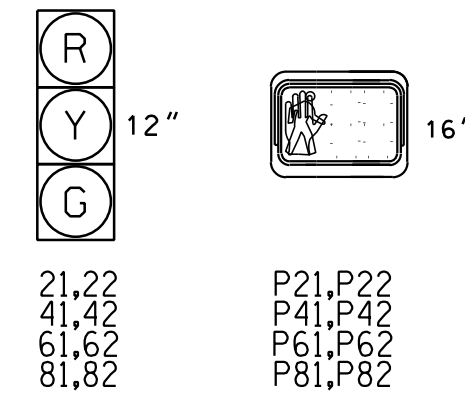
2 Phase Semi-Actuated (Asheville Signal System)

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.
- 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.
- Omit "Walk" and flashing "Don't Walk" with no pedestrian calls on phases 4 and 8.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Locate new cabinet on existing foundation.
- Program controller to allow an Advance Walk movement before serving the vehicle phase.
- Program phase 2 and 6 for Rest-In-Walk.

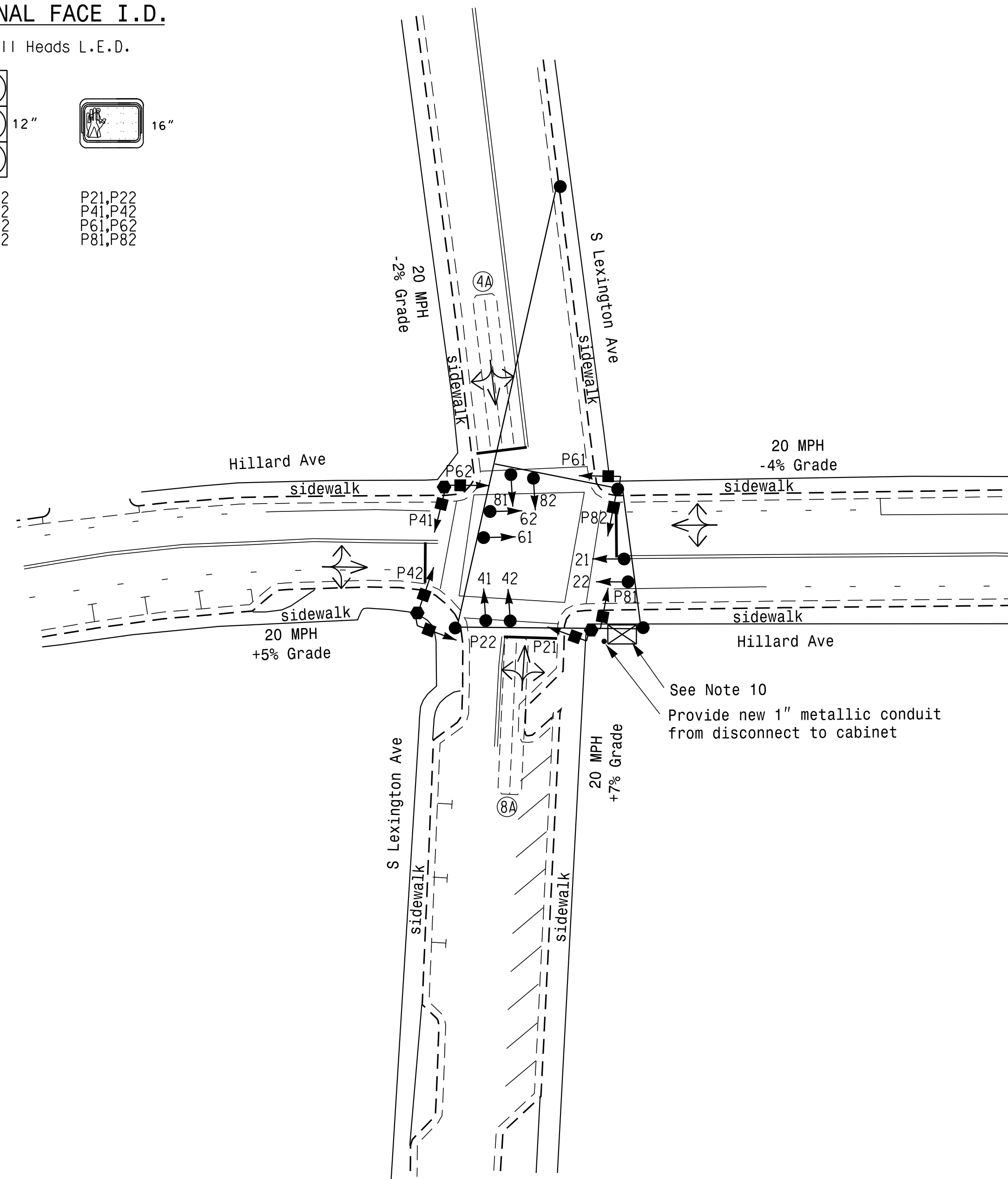
SIGNAL FACE I.D.

All Heads L.E.D.



21,22
41,42
61,62
81,82

P21,P22
P41,P42
P61,P62
P81,P82



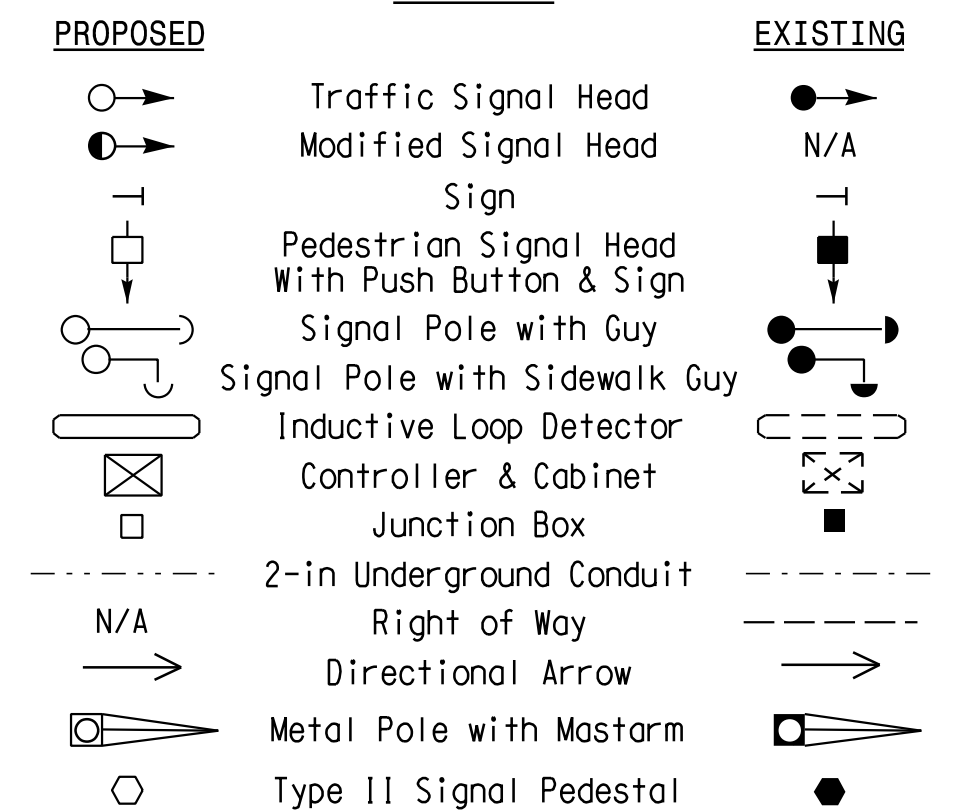
See Note 10
 Provide new 1" metallic conduit from disconnect to cabinet

OASIS 2070E TIMING CHART

FEATURE	PHASE			
	2	4	6	8
Min Green 1 *	10	7	10	7
Extension 1 *	0.0	2.0	0.0	2.0
Max Green 1 *	30	30	30	30
Yellow Clearance	3.0	3.0	3.0	3.0
Red Clearance	1.8	1.8	1.8	1.8
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	23	7	21	7
Don't Walk 1	7	7	9	9
Walk Advance **	3.0	3.0	3.0	3.0
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

* 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.
 ** See Note 11.

LEGEND



Signal Upgrade

City of Asheville
 CONSULTING ENGINEERS • SURVEYORS
 FIRM LICENSE No. C-1154
 12 BROAD STREET
 ASHEVILLE, NORTH CAROLINA 28801
 (828) 254-2201
 FAX (828) 254-4562

Hillard Ave
 at
 S Lexington Ave

Division 13 Buncombe County Asheville

PLAN DATE: MAY 2016 REVIEWED BY: SMH

PREPARED BY: BGR REVIEWED BY: JBV

REVISIONS: INIT. DATE

SEAL
 NORTH CAROLINA
 PROFESSIONAL ENGINEER
 JAMES B. VOSS
 12/13/2016
 SIGNATURE DATE
 SIG. INVENTORY NO. COA-0301