2 Phase Pre-Timed Asheville Signal System

SIGNAL FACE I.D.

All Heads L.E.D.

*Accessible

Pedestrian

Signal

P21, P22* P41, P42* P61, P62* P81, P82* P83, P84*

20 MPH 0% Grade

North Pack Square

R Y)12"

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

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. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 4. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 5. Program controller to allow an Advance Walk movement before serving the vehicle phase.
- 6. Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details. 7. Pedestrian Pushbuttons shall be
- Vibro-Tactile. 8. All Accessible Pedestrian signals shall use "Rapid Tick"

sound.

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. Use the Maximum Walk duration

available during green time.

LEGEND

PROPOSED EXISTING Traffic Signal Head Modified Signal Head N/A Sign Pedestrian Signal Head With Push Button & Sign Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector \boxtimes Controller & Cabinet Junction Box 2-in Underground Conduit N/A Right of Way Directional Arrow \longrightarrow Metal Pole with Mastarm Type I Pushbutton Post Type II Signal Pedestal

Curb Ramp

No Left Turn Sign (R3-2)

No Right Turn Sign (R3-1) Right Arrow "ONLY" Sign (R3-5R)

Signal Upgrade Patton Avenue North Pack Square

1"=20'

Division 13 Buncombe County

US 25 (Broadway/Biltmore Ave. April 2016 REVIEWED BY: P.L. Alexander 750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: R.N. Zinser REVIEWED BY: REVISIONS INIT. DATE

SIG. INVENTORY NO.

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL

SIGNATURES COMPLETED

SEAL

02+6

PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

UNSIGNALIZED MOVEMENT ← − − > PEDESTRIAN MOVEMENT

> Install new base-mounted cabinet on existing foundation. OASIS 2070 TIMING CHART **PHASE** 6 8 10 0.0 0.0 30 20 3.0 3.0 3.3 3.7 2.0 2.0 10 5 3 -ON ON

TABLE OF OPERATION

SIGNAL

FACE

21,22

41,42

61,62

P21**,**P22

P41**,**P42

P61**,**P62

P81**,**P82

P83**,**P84

Cabinet Type:

336 Base-Mounted

Patton Avenue

20 MPH +4% Grade

PHASE

Time To Reduce * Minimum Gap Recall Mode MAX/PED RECALL | MAX/PED RECALL | MAX/PED RECALL | MAX/PED RECAL Vehicle Call Memory Dual Entry ON ON Simultaneous Gap * 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

10

0.0

30

3.0

3.3

2.0

13

0.0

20

3.0

3.7

2.0

7

FEATURE

Min Green 1 *

Extension 1 *

Max Green 1 *

Red Clearance

Red Revert

Walk 1 *

Don't Walk 1

Advance Walk **

Seconds Per Actuation Max Variable Initial * Time Before Reduction

lower than 4 seconds.

** See note 5.

Yellow Clearance