

3 Phase Fully Actuated Asheville Signal System

Install new lead-in along existing conduit.

40 MPH -2% Grade

US 19-23-74A (Smokey Park Highway)

1"=30'

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 5 may be lagged.
- 4. Reposition existing signal head numbered 22.
- 5. Disconnect existing loops as shown.
- 6. Set all detector units to presence mode.
- 7. 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.
- 8. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 9. Pavement markings are existing.

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<u>PROPOSED</u>

N/A

10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

Traffic Signal Head Modified Signal Head Sign Pedestrian Signal Head With Push Button & Sign Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector Controller & Cabinet Junction Box 2-in Underground Conduit

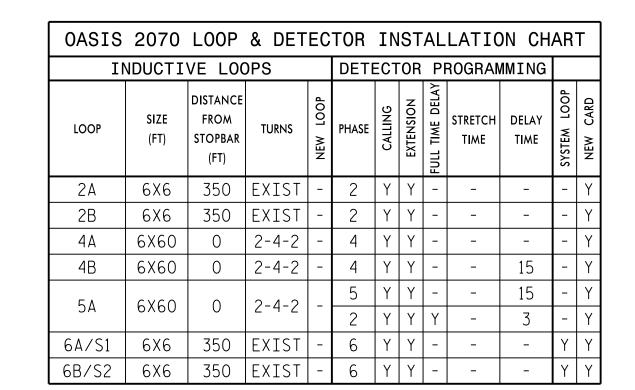
> Right of Way Directional Arrow Wheelchair Ramp

S2 |_ | 6B

S1) |_| (6A)

<u>EXISTING</u>

SIG. INVENTORY NO. |3-0823



SIGNAL FACE I.D. All Heads L.E.D.

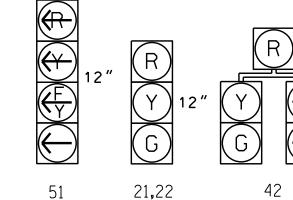
TABLE OF OPERATION

FACE

21,22

61,62

PHASE



12"	R Y 12"	12"	
51	21,22 41 61,62	42	

US 19-23-74A (Smokey Park Highway) ====================================	: = =
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②B□ ===5==============================	
40 MPH +2% Grade	ı
Install new lead-in along existing conduit.	
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PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

DETECTED MOVEMENT

← − − > PEDESTRIAN MOVEMENT

02+6

vay)		No Po (Design		West A		
	 		→ 62 → 61		=======================================	====
	<u> </u>			51 - 0		
ζ	<u>-</u> =======		42_41_==	22		_ = _ /
	Disconnect and abandon existing loops.	1		base-mounted		Dis

ex.	isting con	iduīt.		
OASIS	2070	TIMING	CHART	-
		PH	ASE	
FEATURE	2	4	5	6
λin Green 1 *	12	7	7	12
tension 1 *	6.0	1.0	1.0	6.0
ax Green 1 *	60	30	20	60
ellow Clearance	4.3	3.0	3.0	4.3
ed Clearance	1.4	2.3	2.1	1.4
ed Revert	2.0	2.0	2.0	2.0
Valk 1 *	-	-	-	-
Oon't Walk 1	-	-	-	-
econds Per Actuation *	1.5	-	-	1.5
Max Variable Initial *	39	-	-	39
ime Before Reduction *	15	-	-	15
Time To Reduce *	30	_	-	30

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 ar	ıd 6
lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.	

ON

ON

3.0

MIN RECALL

YELLOW

ON

3.0

MIN RECALL

YELLOW

ON

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL rade SIGNATURES COMPLETED US 19-23-74A SEAL (Smokey Park Highway) West Asheville Plaza ivision 13 Buncombe County 043914 July 2016 REVIEWED BY: R.N. Zinser PLAN DATE: 750 N.Greenfleld Pkwy.Garner.NC 27529 PREPARED BY: Jeff Spence REVIEWED BY: REVISIONS INIT. DATE Richard N. Finser 10/14/2016

Minimum Gap

Vehicle Call Memory

Simultaneous Gap

Recall Mode

Dual Entry