

2 Phase Fully Actuated Chapel Hill Closed Loop System

2070L LOOP & DETECTOR INSTALLATION

DISTANCE :

FROM STOPBAR

300

300

0

0

INDUCTIVE LOOPS

6X60 2-4-2

6X60 2-4-2

SIZE

6A/S07 6X6 4

6B/S08 6X6 4

—Metal Pole #4

30′+/- Lt.

-See Note #5

Sta.-L- 32+71 +/-

DETECTOR PROGRAMMING

NOTES

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Install backplates for signal heads numbered 61 & 62. 4. Set all detector units to presence
- 5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 7. Closed loop system data: Controller Asset #2067.
- 8. During Construction Phase II. install GPS unit for time synchronization. At project completion, remove GPS unit and deliver to the Division 7 Traffic Services Office.

PLAN QUANTITIES		
Pay Item	Feet	
Signal Cable	430	
Messenger Cable	0	
Lead-in Cable	360	

	LEGEND	
PROPOSED		EXISTING
0->	Traffic Signal Head	-
0->	Modified Signal Head	N/A
	Sign	-
1	Pedestrian Signal Head With Push Button & Sign	
0	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	CIIIID
	Controller & Cabinet	K×3
	Junction Box	
	2—in Underground Conduit -	
N/A	Right of Way	
	Directional Arrow	→
	Pavement Marking Arrow	
0	- Metal Pole with Mastarm	
	Pedestrian Signal Pedestal	
— DD ——	Directional Drill 2-2" Conduit	N/A

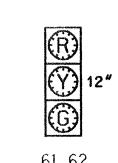
New Installation - Construction Phase II and Final US 15-501 Northbound U-Turn .15 Miles North

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Geometrics Seits	Divisio				el Hill	HILLIAM
d Geometrics	PLAN DATE:	August 2004	REVIEWED BY:	J. Gall	oway	
vell St., Raleigk, NC 276	PREPARED BY	: TDB/TSB	REVIEWED BY:			
SCALE		REVISIONS		INIT.	DATE	-1 .
0 50			***************************************			Luvi
1"=50'						SIG. II

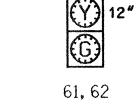
TABLE OF O	PER	ATI	ON
	PHASE		
SIGNAL FACE	Ø6	Ø 8	FLAST
61, 62	G	R	Υ
81, 82	R	G	R
83	- ₽₹		-1 2

SIGNAL FACE I.D.

O Denotes L.E.D. 12"



Signal Pedestal





	• • •
C&G	US 15-501
C&G	A Transaction of the second of
PS	
R/W	45 MPH 3% Grade

2070L TI	MING C	HART	
	PHASE		
FEATURE	6	8	
Min Green 1 *	12	7	
Extension 1 *	6.0	1.0	
Max Green 1 *	90	25	
Yellow Clearance	4.7	4.0	
Red Clearance	2.0	2.5	
Walk 1 *	May 0		
Don't Walk 1			
Seconds Per Actuation *	1.5		
Max Variable Initial*	34		
Time Before Reduction *	15	-	
Time To Reduce *	45		
Minimum Gap	3.0	***	
Recall Mode	MIN RECALL		
Vehicle Call Memory	YELLOW	-	
Devel Entre			

PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNSIGNALIZED MOVEMENT

PEDESTRIAN MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)