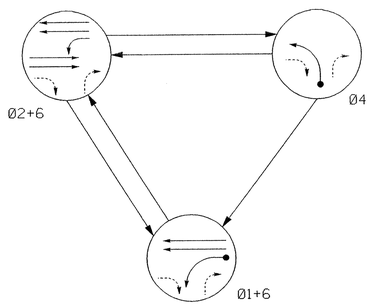
METRIC	PROJECT REFERENCE NO.	SHEET NO.
	U-2408	SIG. 27

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

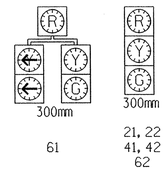
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø1+6	PHASE Ø2+6	PHASE Ø4	FLASH
21,22	R	G	R	Y
41,42	R	R	G	R
61	G	G	R	Y
62	G	G	R	Y

SIGNAL FACE I.D.

Denotes L.E.D.



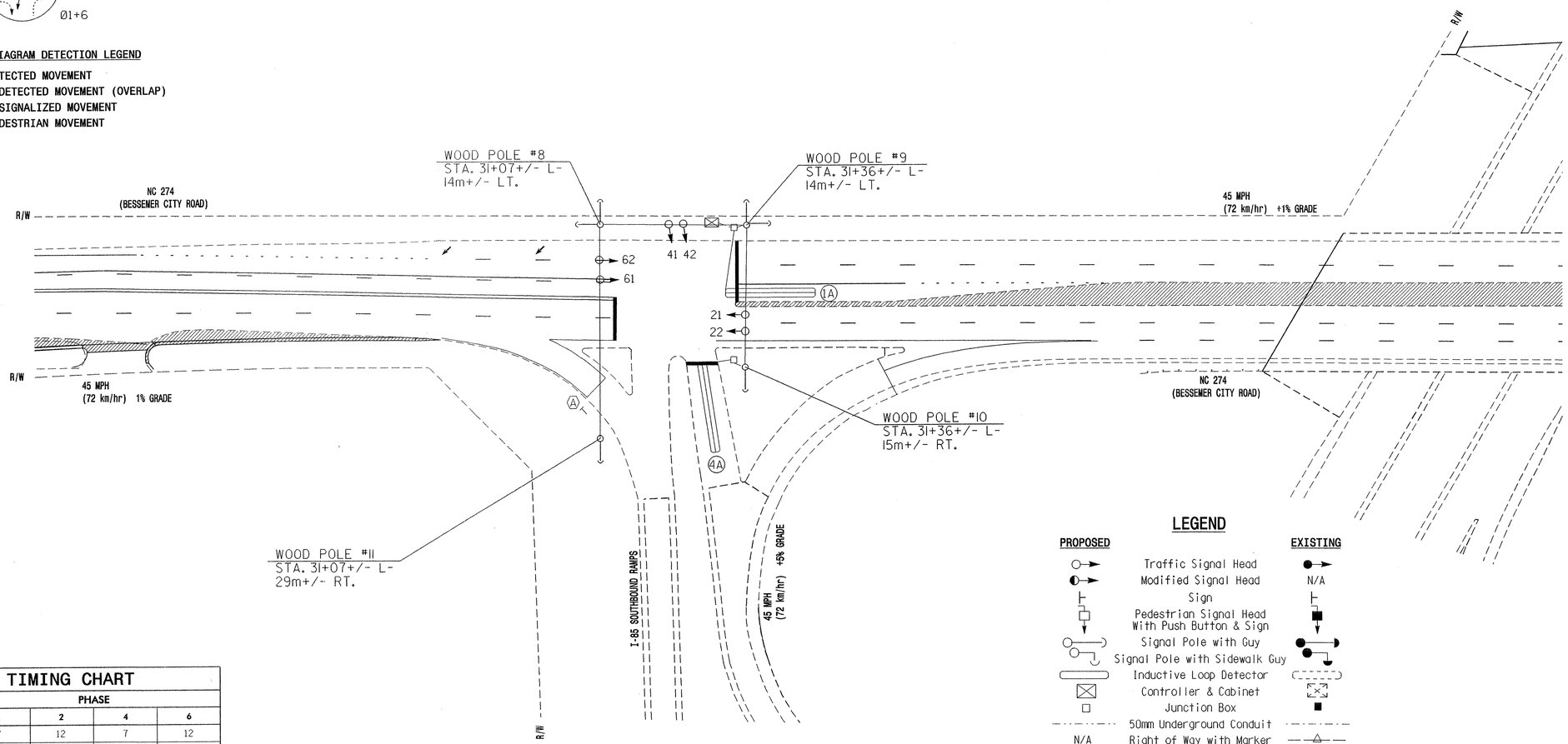
PLAN QUANTITIES

Pay Item	Meters
Signal Cable	145
Messenger Cable	95
Loop Lead-in Cable	70

3 PHASE
SEMI ACTUATED
ISOLATED

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Set all detector units to presence mode.
3. Do not program for late night flashing operation unless otherwise directed by the engineer.



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	
	Controller & Cabinet	
	Junction Box	
	50mm Underground Conduit	
N/A	Right of Way with Marker	
	Directional Arrow	
	Pavement Marking Arrow	
	"YIELD" Sign (R1-2)	
	Construction Zone	

2070L TIMING CHART

FEATURE	PHASE 1	PHASE 2	PHASE 4	PHASE 6
Min Green 1 *	7	12	7	12
Extension 1 *	1.0	0.0	1.0	0.0
Max Green 1 *	20	45	15	45
Yellow Clearance	4.0	4.7	4.0	4.7
Red Clearance	1.5	1.0	1.5	1.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	-	MAX RECALL	-	MAX RECALL
Vehicle Call Memory	-	YELLOW	-	YELLOW
Dual Entry	-	-	-	-
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.

2070L LOOP & DETECTOR INSTALLATION

INDUCTIVE LOOPS					DETECTOR PROGRAMMING						
LOOP	SIZE (m)	TURNS	DISTANCE FROM STOPBAR (m)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
1A	1.8 X 18	2-4-2	+2	Y	1	Y	Y	-	-	-	15	Y
4A	1.8 X 18	2-4-2	0	Y	4	Y	Y	-	-	-	-	Y

Prepared in the Office of:

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4904 PROFESSIONAL COURT, SUITE 201
Raleigh, North Carolina 27609

SIGNAL UPGRADE - TEMPORARY DESIGN 1

State Engineering and Safety Services
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal and Geometrics Section

SCALE 5 0 10 1:500

N.C. 274 (BESSEMER CITY ROAD)
AT
I-85 SOUTHBOUND RAMP & LOOP

DIVISION 12 GASTON COUNTY GASTONIA

PLAN DATE: OCT. 30, 2003 REVIEWED BY: R.DUBNICKA, P.E.

PREPARED BY: RGL REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 027742 ENGINEER ROBERT J. DUBNICKA

SIGNATURE DATE 8-9-04

SIG. INVENTORY NO. 12-0931T1

69-AUG-2004 12:28
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