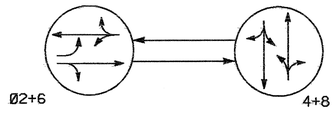
PROJECT REFERENCE NO.	SHEET NO.
U-4736	Sig280

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

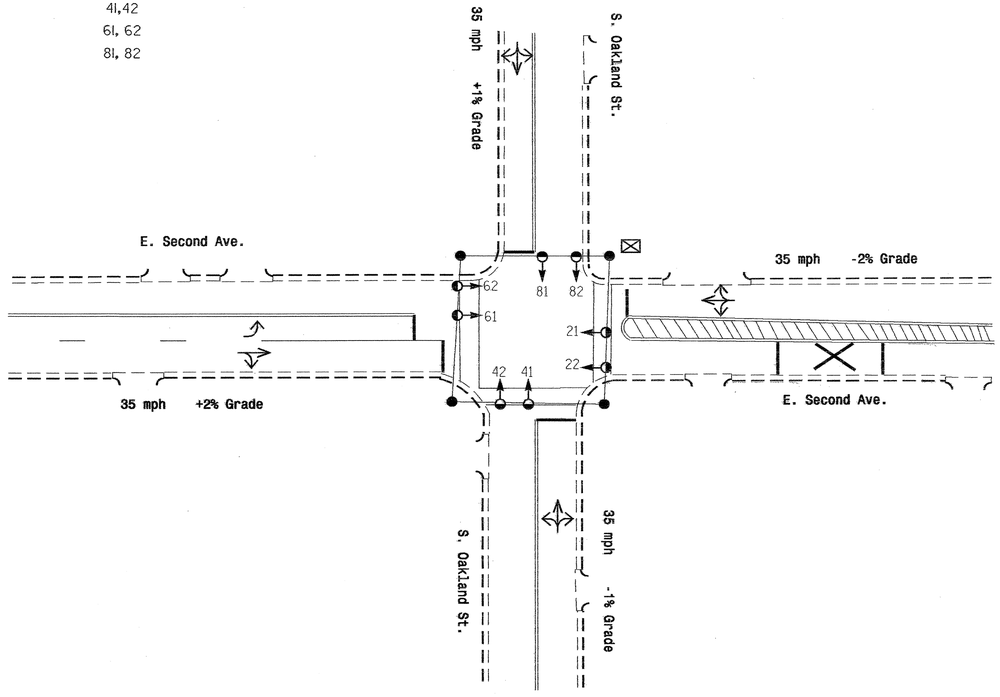
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION			
SIGNAL FACE	PHASE Ø2+6	PHASE Ø4+8	FLASH
21, 22	G	R	Y
41,42	R	G	R
61, 62	G	R	Y
81, 82	R	G	R

SIGNAL FACE I.D.

Denotes L.E.D.

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



2 Phase
Pre-Timed
(Gastonia City System)

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. Set all detector units to presence mode.
4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. Pavement markings are existing.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
7. City system data: Controller Asset #5007.

2070L TIMING CHART				
	PHASE			
FEATURE	2	4	6	8
Min Green 1 *	10	7	10	7
Extension 1 *	0	0	0	0
Max Green 1 *	45	25	45	25
Yellow Clearance	4.0	4.0	4.0	4.0
Red Clearance	1.4	1.4	1.4	1.4
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	MAX RECALL	MAX RECALL
Vehicle Call Memory	-	-	-	-
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.

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	⊠
□	Pull Box	■
-----	2-in Underground Conduit	-----
▲	Right of Way with Marker	△
→	Directional Arrow	→
→	Pavement Marking Arrow	→

Signal Upgrade

Prepared in the Offices of:
Traffic Engineering and Safety Systems Branch
Signals and Geometrics Section
DEPARTMENT OF TRANSPORTATION
STATE OF NORTH CAROLINA
122 N. McDonald St., Raleigh, NC 27603

E. Second Ave. at S. Oakland Street

Division 12 Gaston County Gastonia

PLAN DATE: February 2005 REVIEWED BY:

PREPARED BY: C. Pierce REVIEWED BY: D. Y. Ishak

REVISIONS	INIT.	DATE

SCALE 0 30 1"=30'

SEAL
NORTH CAROLINA
PROFESSIONAL ENGINEER
RICHARD E. MULLINAX

SIGNATURE DATE

City-05