



LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS  
TRAFFIC AND LIGHTING DIVISION  
TRAFFIC SIGNAL TIMING

INTERSECTION: ATLANTIC BL @ TELEGRAPH RD  
T. S. No.: 1092 (NOT USED)

DATE REQUESTED: 3-25-09 HH BY: WJP  
DATE COMPLETED: 5-11-09 BY: WJP

	PHASE								9	A	B	C	D
	1	2	3	4	5	6	7	8					
0 WALK									0				
1 DON'T WALK									1 PHASE 1				
2 MIN INTVL									2 PHASE 2				
3 TYPE 3 LIMIT									3 PHASE 3				
4 ADD PER VEH									4 PHASE 4				
5 VEH EXT									5 PHASE 5				
6 MAX GAP									6 PHASE 6				
7 MIN GAP									7 PHASE 7				
8 MAX LIMIT									8 PHASE 8				
9 MAXIMUM 2													
A ADV/DLY WALK													
B MIN PED CLEAR													
C COND SRV MIN													
D REDUCE EVERY													
E YELLOW													
F RED CLEAR													

MAX INITIAL -  
ALT WALK -  
ALT FLH D/W -  
ALT INITIAL -  
ALT EXTEN -

PHASE BANK # 2

< C+0+F=2 >

	PHASE								9	A	B	C	D
	1	2	3	4	5	6	7	8					
0 WALK									0				
1 DON'T WALK									1 PHASE 1				
2 MIN INTVL									2 PHASE 2				
3 TYPE 3 LIMIT									3 PHASE 3				
4 ADD PER VEH									4 PHASE 4				
5 VEH EXT									5 PHASE 5				
6 MAX GAP									6 PHASE 6				
7 MIN GAP									7 PHASE 7				
8 MAX LIMIT									8 PHASE 8				
9 MAXIMUM 2													
A ADV/DLY WALK													
B MIN PED CLEAR													
C COND SRV MIN													
D REDUCE EVERY													
E YELLOW													
F RED CLEAR													

MAX INITIAL -  
ALT WALK -  
ALT FLH D/W -  
ALT INITIAL -  
ALT EXTEN -

PHASE BANK # 3

< C+0+F=3 >

OUT BIT NO. ->	Column D							
	1	2	3	4	5	6	7	8
0								
1 OUTPORT 1								
2 OUTPORT 2								
3 OUTPORT 3								
4 OUTPORT 4								
5 OUTPORT 5								
6 OUTPORT 6								
7 OUTPORT 7								
8								
9								
A								
B								
C								
D								
E								
F								

DIMMING < C+0+E=125 >

	Column F							
0 FAST GRN FLH	1	2	3	4	5	6	7	8
1 GREEN FLASH								
2 FLASH WALK								
3 QUAR PASS								
4 SKUL GAP								
5 SEQ TIMING								
6 ADV WALK								
7 DELAY WALK								
8 EXT RECALL								
9								
A MAX EXTEN								
B INK PED RSRV								
C SEMI ACTUATED								
D								
E START VEH CALL								
F START PED CALL								

SPECIALS < C+0+F=2 >

**BI Tran Systems, Inc.**  
510 Becont Dr., Sacramento, Calif. 95814  
916 / 441-0260  
Traffic Signal Program 233

INTERSECTION: 171st Ave R @ Telegraph Rd  
 T.S. No.: 1092

DATE REQUESTED: 3-25-09 HCH BY: lc  
 DATE COMPLETED: 5-11-09 BY: MF

Column -> 1

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
										3.0					

Column -> 2

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

C1 PIN NUMBER	Column 0			Column 1			Column 2			Column 3								
	ATTRIBUTES			PHASE(S)			ASSIGNMENTS			ASSIGNMENTS								
	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
0 39				X	X	X				X			X	X	X			
1 40	X	X		X						X			X	X	X			
2 41	X	X		X	X								X	X	X			
3 42				X	X	X							X	X	X			
4 43				X	X	X				X			X	X	X			
5 44				X	X	X					X		X	X	X			
6 45				X	X	X				X			X	X	X			
7																		
8																		
9																		
A 49										X	X		X	X	X			
B																		
C																		
D 56				X	X	X				X	X	X	X	X	X			
E																		
F																		

DETECTOR ASSIGNMENTS < C + 0 + E = 126 >

- DETECTOR ATTRIBUTES**
- 1 = Full Time Delay
  - 2 = Pedestrian Call
  - 3 =
  - 4 = Count
  - 5 = Extension
  - 6 = Type 3
  - 7 = Calling
  - 8 = Alternate

**DETECTOR ASSIGNMENTS**

- 1 = Det. Set #1
- 2 = Det. Set #2
- 3 = Det. Set #3
- 4 =
- 5 =
- 6 = MIN Recall On Failure
- 7 = MAX Recall On Failure
- 8 = Report On Failure

Column -> 2

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

Column -> 4

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

C1 PIN NUMBER	Column 4			Column 5			Column 6			Column 7								
	ATTRIBUTES			PHASE(S)			ASSIGNMENTS			ASSIGNMENTS								
	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
0																		
1																		
2																		
3																		
4 63				X	X	X				X			X	X	X			
5 64				X	X	X				X			X	X	X			
6																		
7																		
8 67				X						X			X	X	X			
9																		
A																		
B																		
C																		
D																		
E																		
F																		

DETECTOR ASSIGNMENTS < C + 0 + E = 126 >

**Detector Monitor**

MAX OFF: (D/0 + 0 + 1) = \_\_\_\_\_

MAX ON: (D/0 + 0 + 2) = \_\_\_\_\_

**Power Cycle Correction Factors**

LONG FAILURE: (F/1 + 0 + 6) = \_\_\_\_\_

SHORT FAILURE: (F/1 + 0 + 7) = \_\_\_\_\_

NOTE: Do Not Set To Zero. Default Value = 0.5 sec

**BI Tran Systems, Inc.**

510 Beirut Dr., Sacramento, Calif. 95811  
 916 / 441-0260

Traffic Signal Program 233

INTERSECTION : ATLANTIC BL @ TELEGRAPH RD  
T. S. No. : 1092 (NOT USED)

DATE REQUESTED : 3-25-09 BY : WJ  
DATE COMPLETED : 5-11-09 BY : WJ

	PED / PHASE / OVERLAP							
	1	2	3	4	5	6	7	8
0 WALK								
1 DONT WALK								
2 PHASE GREEN								
3 PHASE YELLOW								
4 PHASE RED								
5 OVERLAP GREEN								
6 OVERLAP YELLOW								
7 OVERLAP RED								
8								
9								
A								
B								
C								
D								
E								
F								

REDIRECT PHASE OUTPUTS < C + 0 + E = 127 >

Advance Warning Beacons  
 Sign # 1: \_\_\_\_\_ Sign # 2: \_\_\_\_\_  
 PHASE NUMBER: (F/1 + C + F) = \_\_\_\_\_ (F/1 + D + F) = \_\_\_\_\_  
 TIME BEFORE YELLOW: (F/1 + C + E) = \_\_\_\_\_ (F/1 + D + E) = \_\_\_\_\_  
 OUTPUT PIN NUMBER: (E/127 + E + 8) = \_\_\_\_\_ (E/127 + E + 9) = \_\_\_\_\_

Exclusive Pedestrian Operation  
 WALK: (F/1 + 0 + 0) = \_\_\_\_\_  
 DONT WALK: (F/1 + 0 + 1) = \_\_\_\_\_  
 RED CLEAR: (F/1 + 0 + 2) = \_\_\_\_\_

CABINET TYPE  
 30 = Type 303 / 330 Cabinet  
 (Enable Redirection)  
 0 = All Other Types  
 (Disable Redirection)

	1		2		3		4		5		6		7		8	
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
0 LOAD SW #																
1 VEH SET #1																
2 VEH SET #2																
3 VEH SET #3																
4 NEG VEH																
5 NEG PED																
6 GREEN OMT																
7 GRN CLR OMT																
8																
D GRN CLEAR																
E YELLOW																
F RED CLEAR																

OVERLAP ASSIGNMENTS < C + 0 + E = 29 >

**BI Tran Systems, Inc.**  
 510 Bercut Dr., Sacramento, Calif. 95814  
 916 / 441-0260  
 Traffic Signal Program 233

INTERSECTION: ATLANTIC BL @ TELEGRAPH RD  
T. S. No.: 1092

DATE REQUESTED: 3-25-09 HCB BY: LEG  
DATE COMPLETED: 5-11-09 BY: ADJ

	PLAN NUMBER								
	1	2	3	4	5	6	7	8	9
0 CYCLE	100								
1 FORCE 1	17								
2 FORCE 2	0								
3 FORCE 3									
4 FORCE 4	49								
5 FORCE 5									
6 FORCE 6	0								
7 FORCE 7									
8 FORCE 8									
9 RING OFFSET									
A OFFSET 1	10								
B OFFSET 2									
C OFFSET 3									
D END PERM 1	20								
E HOLD RELEASE	70								
F ZONE OFFSET									

COORDINATION < C + 0 + C = 1 >

< C + 0 + C = 1 >

	Column E							
	1	2	3	4	5	6	7	8
0								
1 SYNC 1		X						
2 SYNC 2								
3 SYNC 3								
4 SYNC 4								
5 SYNC 5								
6 SYNC 6								
7 SYNC 7								
8 SYNC 8								
9 SYNC 9								
A NEMA SYNC								
B NEMA HOLD								
C								
D								
E COOR XTRA								
F								

	Column F							
	1	2	3	4	5	6	7	8
0 LAG FREE	X	X	X	X	X	X	X	X
1 LAG PLAN 1	X	X	X	X	X	X	X	X
2 LAG PLAN 2								
3 LAG PLAN 3								
4 LAG PLAN 4								
5 LAG PLAN 5								
6 LAG PLAN 6								
7 LAG PLAN 7								
8 LAG PLAN 8								
9 LAG PLAN 9								
A EXT. LAG								
B								
C								
D								

1 = Programmed Walk Time  
For Sync Phases

COMM ADDRESS:  
(C/0+0+0) = 2  
ZONE NUMBER: 1  
(C/0+0+1) = 1  
AREA NUMBER: 3  
(C/0+0+2) = 3  
AREA ADDRESS: 2  
(C/0+0+3) = 2

Column 2  
COORD  
MINIMUM

1	
2	
3	
4	
5	
6	
7	
8	

< C + 0 + C > = 0

< C + 0 + C = 5 >

Manual Plan Select:  
(C/0+A+1) = 0

AUTO = 0  
PLAN = 1-9  
FREE = 14  
FLASH = 15

Manual Offset Select:  
(C/0+B+1) = 0

AUTO = 0  
OFFSET A = 1  
OFFSET B = 2  
OFFSET C = 3

TRANSITION

TYPE  
0X = Stopway  
1X = Dwell  
X1 thru X4 = Number of cycles  
When Lengthing

TRANSITION TYPE  
(C/5+1+9) = \_\_\_\_\_

LAG HOLD PHASES:  
(C/5+1+A) = \_\_\_\_\_  
7-WIRE SYNC TIME:  
(C/5+1+C) = \_\_\_\_\_

DISPLAY LOCATIONS

Master Plan = C/0+A+A+2  
Current Plan = C/0+A+A+3  
TOD Plan = C/0+A+A+5  
Master Cycle = C/0+A+A+0  
Ring A Cycle = C/0+B+B+0  
Ring B Cycle = C/0+D+0+0  
MIN Cycle = C/0+A+A+E  
MAX Cycle = C/0+B+B+E  
Phase Hold = C/0+F+F+D  
Phase Next = C/0+F+F+E  
Force Off = C/0+F+F+F  
(With Ring A Cycle Timer)

HOURS OF OPERATION SUMMARY			
	OFFSET 1	OFFSET 2	OFFSET 3
D1	<u>0600-1830 M-F</u>		
B2			
D3			
FREE	<u>ALL OTHER TIMES</u>		

**BI Tran Systems, Inc.**  
510 Berard Dr., Sacramento, Calif. 95814  
916/441-0260  
Traffic Signal Program 233

INTERSECTION: ATLANTIC BL @ TELEGRAPH RD  
 T. S. No.: 1092 (NOT USED)

DATE REQUESTED: 3-25-09 By: JP  
 DATE COMPLETED: 5-11-09 BY: NJ

Column A	Column B	Column C	Column D	Column E	Column F			
0	NOT3	MAX2	PRETIM	WK DAY	DIAL2			0
1	NOT4	SYDET1	PLAN1	XPERM1	DIAL3	EVA		1
2	OR4	SYDET2	PLAN2	XPERM2	OFF1	EV8		2
3	OR4	SYDET3	PLAN3	DIM	OFF2	EV0		3
4	OR5	SYDET4	PLAN4	XCLOCK	OFF3	EVD		4
5	OR5	SYDET5	PLAN5	ST TIME	FREE	RR1		5
6	OR6	SYDET6	PLAN6	FL SENS	FLASH	RR2		6
7	OR6	SYDET7	PLAN7	ENABLE	XPD OMT	SP1		7
8		SYDET8	PLAN8	ADVANC	NOT1	SP2		8
9		MX INIBT	PLAN9	ALARM	NOT2	XLAG		9
A	AND4	FORCE A	DELAY A	PH BNK2	OR1	AND1		A
B	AND4	FORCE B	DELAY B	PH BNK3	OR1	AND1		B
C	MAND1	CMA	DELAY C	OL SET2	OR2	AND2		C
D	MAND1	HOLD	DELAY D	OL SET3	OR2	AND2		D
E	MAND2	VE CALL	DELAY E	DET ST2	OR3	AND3		E
F	MAND2	RECALL	DELAY F	DET ST3	OR3	AND3		F

ASSIGNABLE INPUTS < C + 0 + E = 126 >

Column A	Column B	Column C	Column D	Column E	Column F			
0		FLHR0	FREE	NOT1	TOD1	DIAL2		0
1	SP EV1	FLHR1	PLAN1	OR1	TOD2	DIAL3		1
2	SP EV2	F FLHR	PLAN2	OR2	TOD3	OFF1		2
3	SP EV3		PLAN3	OR3	TOD4	OFF2		3
4	SP EV4		PLAN4	AND1	TOD5	OFF3		4
5	SP EV5		PLAN5	AND2	TOD6	FREE		5
6	SP EV6		PLAN6	AND3	TOD7	FLASH		6
7	SP EV7		PLAN7	NOT2	TOD8	PREMPT		7
8	SP EV8		PLAN8	EVA	WARN1			8
9		NOT4	PLAN9	EV8	WARN2			9
A	DET FAIL	OR4		EV0	DELAYA			A
B		OR5		EVD	DELAYB			B
C		OR6		RR1	DELAYC			C
D	CNT CTL	AND4		RR2	DELAYD			D
E	X DWALK	MAND1		SP1	DELAYE			E
F	X WALK	MAND2		SP2	DELAYF			F

ASSIGNABLE OUTPUTS < C + 0 + E = 127 >

INTERSECTION: ATLANTIC & TELEGRAPH RD  
 T.S. No.: 1092 (NOT USED)

DATE REQUESTED: 3-25-09 HCH BY: [Signature]  
 DATE COMPLETED: 4-11-09 BY: [Signature]

PLAN # ->	1	2	3	4	5	6	7	8	9
0 PED ADJ									
1 ST PERM 2									
2 EN PERM 2									
3 ST PERM 3									
4 EN PERM 3									
5 RSRV TIME									

	1	2	3	4	5	6	7	8	9
6 RESERVE PH									
7									
8 PRETIMED									
9 MAX RECALL									
A PERM 1 VEH									
B PERM 1 PED									
C PERM 2 VEH									
D PERM 2 PED									
E PERM 3 VEH									
F PERM 3 PED									

COORDINATION PAGE 2 < C+0+C=2 >

Logic DELAY Times  
 Column B

A	DELAY A	
B	DELAY B	
C	DELAY C	
D	DELAY D	
E	DELAY E	
F	DELAY F	

< C+0+D=0 >

DIAL-UP ("stand alone")  
 Modem Interface:

(C/5 + D + 0) = \_\_\_\_\_

NOTE: If "Non-Zero", PARITY will be DISABLED  
 for "Smart Modem" operation.

**BI Tran Systems, Inc.**  
 510 Beroud Dr., Sacramento, Calif. 95814  
 916 / 441-0260  
 Traffic Signal Program 233

INTERSECTION: ATLANTIC BL & TELEGRAPH RD  
T.S. No.: 1092

DATE REQUESTED: 3-25-09 HCH BY: Ne A  
DATE COMPLETED: 11-09 BY: AVF

COORD (9 Key) M

TIME	HMM	DAY OF WEEK						
		S	M	T	W	T	F	S
0	0000	E	A	X	X	X	X	X
1	0600	1	A	X	X	X	X	X
2	1830	E	A	X	X	X	X	X
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

COORD (9 Key) M

TIME	HMM	DAY OF WEEK						
		S	M	T	W	T	F	S
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

<C+0+9=0.1>

<C+0+9=0.2>

- PLAN SELECT.
- 1 = Coordination Plan 1 thru
  - 9 = Coordination Plan 9
  - E = Free
  - F = Flash

- OFFSET SELECT.
- A = Offset A
  - B = Offset B
  - C = Offset C

TOD FUNCT. (7 Key)

TIME	HMM	DAY OF WEEK						
		S	M	T	W	T	F	S
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

Column 4

PHASES / BITS	DAY OF WEEK						
	1	2	3	4	5	6	7
1							
2							
3							
4							
5							
6							
7							
8							
9							
A							
B							
C							
D							
E							
F							

<C+0+7=1> r <C+0+E=27>

HOLIDAY TOD FUNCT. (7 Key)

TIME	HMM	HOLIDAY TYPE						
		1	2	3	4	5	6	7
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

Column 4

PHASES / BITS	HOLIDAY TYPE						
	1	2	3	4	5	6	7
1							
2							
3							
4							
5							
6							
7							
8							
9							
A							
B							
C							
D							
E							
F							

<C+0+7=2> r <C+0+E=28>

T.O.D. FUNCTIONS

- 0 - Permit Phases
- 1 - Red Lock
- 2 - Yellow Lock
- 3 - Veh. MIN Recall
- 4 - Ped. Recall
- 5 -
- 6 - Rest in Walk
- 7 - Red Ped
- 8 - Double Entry
- 9 - Veh. MAX Recall
- A - Veh. SOFT Recall
- B - Meridrum 2
- C - Conditional Service
- D - Lag Phases
- E - Bit 1 - Local Override
- Bit 4 - Disable Det
- Bit 7 - Det. Count
- Monitor
- Bit 8 - Recall Time
- Soft Monitor
- F - Output Bit 1 Thru 8



# CURRENT TIME OF DAY

INTERSECTION: ATLANTIC BEL TELEGRAPH KEYSTROKES: 8-0

	<b>R.D.</b>									
	<input type="radio"/> 0	<b>SECONDS</b>								
SUNDAY	<input type="radio"/> 1	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td><td>7</td></tr></table>	0	1	2	3	4	5	6	7
0	1	2	3							
4	5	6	7							
MONDAY	<input type="radio"/> 2	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td><td>7</td></tr></table>	0	1	2	3	4	5	6	7
0	1	2	3							
4	5	6	7							
TUESDAY	<input type="radio"/> 3	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td><td>7</td></tr></table>	0	1	2	3	4	5	6	7
0	1	2	3							
4	5	6	7							
WEDNESDAY	<input type="radio"/> 4	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td><td>7</td></tr></table>	0	1	2	3	4	5	6	7
0	1	2	3							
4	5	6	7							
THURSDAY	<input checked="" type="radio"/> 5	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td><td>7</td></tr></table>	0	1	2	3	4	5	6	7
0	1	2	3							
4	5	6	7							
FRIDAY	<input type="radio"/> 6	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td><td>7</td></tr></table>	0	1	2	3	4	5	6	7
0	1	2	3							
4	5	6	7							
SATURDAY	<input type="radio"/> 7	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td><td>7</td></tr></table>	0	1	2	3	4	5	6	7
0	1	2	3							
4	5	6	7							
	<input checked="" type="radio"/> 8	<b>HOURS</b>								
	<input type="radio"/> 9	<b>MINUTES</b>								

DIRECTIONS: USING KEYSTROKES 8-0, DISPLAY THE CURRENT TIME OF DAY. TO SET THE TIME SETUP FOR THE NEXT MINUTE, STARTING WITH THE MOST SIGNIFICANT DIGIT OF HOURS, KEY IN HOURS, MINUTES AND 0 FOR SECONDS. THEN EXACTLY ON THE MINUTE, ENTER THE TIME BY DEPRESSING THE F KEY. NEXT TURN ON THE CALL/ACTIVE LIGHT FOR THE DAY OF WEEK.

# CURRENT DATE

KEYSTROKES: 8-1

		<b>MONTHS</b>
	<input type="radio"/> 0	1 JANUARY
	<input type="radio"/> 1	2 FEBRUARY
	<input type="radio"/> 2	3 MARCH
	<input type="radio"/> 3	4 APRIL
	<input type="radio"/> 4	5 MAY
	<input type="radio"/> 5	6 JUNE
	<input type="radio"/> 6	7 JULY
	<input type="radio"/> 7	8 AUGUST
	<input type="radio"/> 8	9 SEPTEMBER
	<input type="radio"/> 9	A OCTOBER
		B NOVEMBER
		C DECEMBER

  

<input type="radio"/> 0	2ND KEY	<input type="radio"/> 1	MONTH
<input type="radio"/> 1		<input type="radio"/> 2	(1-C)
<input type="radio"/> 2		<input type="radio"/> 3	
<input type="radio"/> 3		<input type="radio"/> 4	
<input type="radio"/> 4		<input type="radio"/> 5	
<input type="radio"/> 5		<input type="radio"/> 6	
<input type="radio"/> 6		<input type="radio"/> 7	
<input type="radio"/> 7	DAY OF MONTH	<input type="radio"/> 8	YEAR
<input checked="" type="radio"/> 8	(01-31)	<input type="radio"/> 9	(00-99)
<input type="radio"/> 9			

  

	1	6	8	5
	1	6	8	5

DIRECTIONS: USING KEYSTROKES 8-1, DISPLAY THE CURRENT DATE. GOING COUNTER CLOCKWISE FROM THE MOST SIGNIFICANT DIGIT OF THE DAY OF THE MONTH KEY IN THE DAY OF MONTH, LAST TWO DIGITS OF THE YEAR, AND THE MONTH. ENTER THE DATE BY DEPRESSING THE F KEY.

ABOVE EXAMPLES - 7:58 AM ON THURSDAY, MAY 16, 1985.

