

Location: East Taylor St. & Rte. 87 Ramps

System:

District: 04

Designed By:

Installed By: BH/HZ

Master At:

I/C:

Service Info:

Timing Change:

Date Start:

Date End:

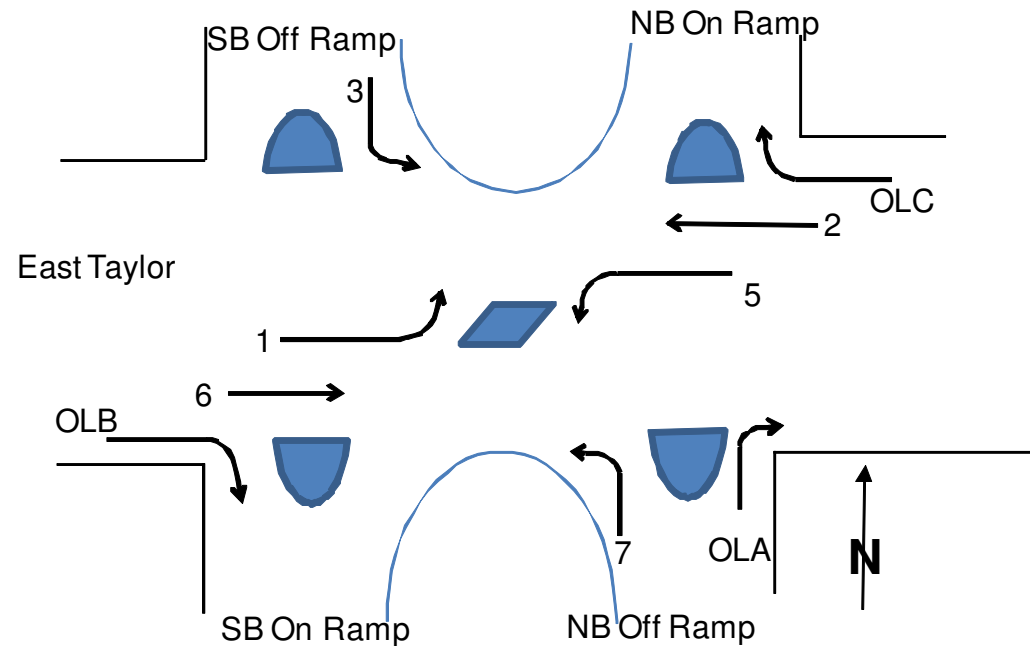
Designed:

Installed:

1/9/2002

Intersection Layout

	FLASH
1) East Taylor EBLT to NB On-ramp	[]
P 2) WB East Taylor	[]
H 3) SB off-ramp LT	[]
A 4)	[]
S 5) East Taylor WBLT to SB on-ramp	[]
E 6) EB East Taylor	[]
7) NB off-ramp LT	[]
8)	[]
O A) NB off Ramp RT	[]
V B) East Taylor EBRT	[]
E C) East Taylor WBRT	[]
R D)	[]
L E)	[]
A F)	[]
P	[]



Comments and Notes:

RAM Checksum

Page 2: C573	Page 7: F261
Page 3: FBD1	Page 8: D364
Page 4: 3C9A	Page 9: 9BED
Page 5: 7E16	Page 10: B956
Page 6: 85AF	Page 11: C381

CONFIGURATION PHASE FLAGS

Phases (2-1-1-1) *	
Permitted	1 2 3 4 5 6 7 .
Restricted	.....

Phase Recalls (2-1-1-2)	
Vehicle Min	. 2 . . . 6 . .
Vehicle Max	.....
Pedestrian	.....
Bicycle	.....

Phase Locks (2-1-1-3) *	
Red	.. 3 . . . 7 .
Yellow	.....
Force/Max	.....

Phase Features (2-1-1-4) *	
Double Entry	. 2 . . . 6 . .
Rest In Walk	.....
Rest In Red	.....
Walk 2	.....
Max Green 2	..... 7 .
Max Green 3	..... 5 . .

Startup (2-1-1-5) *	
First Green Phases	. 2 . . . 6 . .
Yellow Start Phases	.....
Yellow Start Overlaps	.....
Startup All-Red	6.0
Vehicle Calls	1 2 3 4 5 6 7 .
Pedestrian Calls	1 2 . . 5 6 . .

Call To Phase (2-1-2-1)		Omit On Green	
1	.....	1	.....
2	.....	2	.....
3	.....	3	.....
4	.....	4	.....
5	.....	5	.....
6	.....	6	.....
7	.....	7	.....
8	.....	8	.....

Flashing Colors (2-1-2-2)	
Yellow Flash Phases	.....
Yellow Flash Overlap	.....
Flash In Red Phases	.....
Flash In Red Overlap	.....

Special Operation (2-1-2-3)	
Single Exit Phase	.....
Driveway Signal Phases	.....
Driveway Signal Overlaps	.....
Leading Ped Phases	.....

Protected Permissive (2-1-2-4)	
Protected Permissive	.....

Pedestrian (2-1-3) *	
P1	1
P2	. 2
P3	.....
P4	.....
P5	..... 5 . .
P6	..... 6 . .
P7	.....
P8	.....

Overlap (2-1-4) *				
Overlap	Parent	Omit	No Start	Not
A	..... 5 . 7 .	.....	.....	.. 3 . . 6 . .
B	..... 6 7 .	.....	.....	..... 5 . .
C	. 2 . . . 7 .	.....	.....	1
D	.....	.....	.....	.....
E	.....	.....	.....	.....
F	.....	.....	.....	.....

PHASE TIMING

Phase (2-2)	-1- *	-2- *	-3- *	-4- *	-5- *	-6- *	-7- *	-8-
--- Walk 1 ---	0	6	0	10	6	6	0	10
Flash Don't Walk	0	8	0	10	5	8	0	10
Minimum Green	4	8	4	1	4	8	4	10
Det Limit	0	0	0	0	0	0	0	10
Max Initial	0	30	30	0	0	0	30	10
Max Green 1	15	25	15	15	20	25	30	50
Max Green 2	50	50	50	50	30	50	55	50
Max Green 3	50	50	50	50	30	50	50	50
Extension	2.0	2.0	3.0	2.0	2.0	2.0	3.0	5.0
Maximum Gap	3.0	3.0	4.0	3.0	3.0	3.0	4.0	5.0
Minimum Gap	1.0	1.0	2.0	1.0	1.0	1.0	2.0	5.0
Add Per Vehicle	0.0	2.0	2.0	0.0	0.0	0.0	2.0	1.0
Reduce Gap By	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Reduce Every	1.0	1.2	0.8	0.5	1.0	1.2	1.0	1.0
Yellow	3.5	4.0	3.0	3.0	3.5	4.0	3.5	5.0
All-Red	3.5	2.0	5.5	0.0	3.5	4.0	3.0	1.0
Ped/Bike (2-3)	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-
--- Walk 2 ---	0	0	0	0	0	0	0	0
Delay/Early Walk	0	0	0	0	0	0	0	0
Solid Don't Walk	0	0	0	0	0	0	0	0
Bike Green	0	0	0	0	0	0	0	0
Bike All-Red	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OVERLAP TIMING

Overlap (2-4)	A *	B *	C *	D	E	F
Green	0.0	0.0	0.0	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	5.0	5.0	5.0
Red	3.0	4.0	2.0	0.0	0.0	0.0

Red Revert

Red Revert (2-5) *	
Time	2.0
Red To Sec (2-6)	
Red To Sec	OFF

COORDINATION

Local Plan (7-1...9) TIMING DATA [Offsets] Green Factors or Press [F] to Select Force-Off

		Cycle	Multi	Perm	A	B	C	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-
Plan 1	Green Factor														
Plan 2	Green Factor														
Plan 3	Green Factor														
Plan 4	Green Factor														
Plan 5	Green Factor														
Plan 6	Green Factor														
Plan 7	Green Factor														
Plan 8	Green Factor														
Plan 9	Green Factor														

Local Plan (7-1...9) PHASE FLAGS

	Lag	Sync	Hold	Omit	Veh Min	Veh Max	Ped	Bike
Plan 1
Plan 2
Plan 3
Plan 4
Plan 5
Plan 6
Plan 7
Plan 8
Plan 9

Master Timer Sync (7-A)
Enable in Plans
.....

Master Sub Master
Input
Output

FREE PLAN PHASE FLAGS

(7-E) Free	
Lag	Omit
. 2 . 4 . 6 . 8	.....
Veh Min	Veh Max
. 2 ... 6 ..	.....
Ped	Bike
.....
Cond	Cond Grn
.....	10

MANUAL COMMANDS

Manual Plan (4-1)	Plan: 1-9
Plan	OffSet
	A

15 or 254 = Flash
14 or 255 = Free
Offset A, B, or C

Special Function Override (4-2)			
#	Control	#	Control
1	NORMAL	3	NORMAL
2	NORMAL	4	NORMAL

Detector Reset	(4-3)
Local Manual (4-4)	OFF

DETECTORS

Detector Attributes (5-1) *				Slot	Detector Configuration (5-2) *				
Det	Type	Phases	Lock		Det	Delay	Extend	Recall	Port
1	COUNT+CALL+EXTEND	. 2	NO	I2U	1		2.0	10	1.1
2	COUNT+CALL+EXTEND	. . . . . 6 . .	NO	J2U	2		2.0	10	1.2
3	COUNT+CALL+EXTEND	. . . . . 5 . .	NO	I6U	3	5	1.0	10	1.3
4	COUNT+CALL+EXTEND	. . . . . 7 .	NO	J6U	4		2.0	10	1.4
5	COUNT+CALL+EXTEND	. 2	NO	I2L	5			10	1.5
6	COUNT+CALL+EXTEND	. . . . . 6 . .	NO	J2L	6		2.0	10	1.6
7	COUNT+CALL+EXTEND	. . . . . 5 . .	NO	I6L	7	2	1.0	10	1.7
8	COUNT+CALL+EXTEND	. . . . . 7 .	RED	J6L	8			10	1.8
9	CALL+EXTEND	. 2	NO	I4	9			10	2.1
10	CALL+EXTEND	. . . . . 6 . .	NO	J4	10			10	2.2
11	CALL+EXTEND	. . . . . 5 . .	NO	I8	11	3		10	2.3
12	LIMITED	. . . . . 8	NO	J8	12			10	2.4
13	COUNT+CALL+EXTEND	. . . . . 5 . .	NO	J1	13			10	3.1
14	COUNT+CALL+EXTEND	1	RED	I1	14			10	3.2
15	COUNT+CALL+EXTEND	. . . . . 7 .	NO	J5	15			10	3.3
16	COUNT+CALL+EXTEND	. . 3	NO	I5	16			10	3.4
17	COUNT+CALL+EXTEND	. . . . . 5 . .	NO	J9U	17			10	3.5
18	COUNT+CALL+EXTEND	1	NO	I9U	18			10	3.6
19	COUNT+CALL+EXTEND	. . . . . 5 . .	NO	J9L	19			10	3.7
20	COUNT+CALL+EXTEND	1	NO	I9L	20			10	3.8
21	CALL+EXTEND	. 2	NO	I3L	21			10	6.2
22	CALL+EXTEND	. . . . . 7 .	NO	J3L	22			10	6.3
23	CALL+EXTEND	. . . 4	NO	I7L	23			10	6.4
24	CALL+EXTEND	. . 3	RED	J7L	24		1.0	10	6.5
25	COUNT+CALL+EXTEND	. 2	NO	I3U	25			10	4.5
26	COUNT+CALL+EXTEND	. . . . . 6 . .	NO	J3U	26			10	4.6
27	COUNT+CALL+EXTEND	. . . 4	NO	I7U	27			10	4.7
28	COUNT+CALL+EXTEND	. . 3	RED	J7U	28		1.0	10	4.8
29	PEDESTRIAN	. 2	NO	I12U	29			10	5.1
30	PEDESTRIAN	. . . . . 6 . .	NO	I13U	30			10	5.2
31	PEDESTRIAN	. . . . . 5 . .	NO	I12L	31			10	5.3
32	PEDESTRIAN	1	NO	I13L	32			10	5.4

Failure Times(5-3)	Minutes
Maximum On Time	
Fail Reset Time	

Failure Override (5-4)	
Detectors 1-8	. . . . .
Detectors 9-16	. . . . .
Detectors 17-24	. . . . .
Detectors 25-32	. . . . .

System Detector Assignment (5-5)								
Sys Det	1	2	3	4	5	6	7	8
Det Num								
Sys Det	9	10	11	12	13	14	15	16
Det Num								

CIC Operation (5-6-1)

Enable in Plans
-----------------	-----------

CIC Values (5-6-2)	Volume	Occupancy	Demand
Smoothing	0.66	0.66	0.66
Multiplier	4.0	0.33	
Exponent	0.50	1.00	

Detector-to-Phase Assignment (5-6-3)								
Sys Det	1	2	3	4	5	6	7	8
Phase								
Sys Det	9	10	11	12	13	14	15	16
Phase								

Input File Port-Bit Assignments

332 Cabinet - For Reference Only

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
I- 3.2	1.1	4.5	2.1	3.4	1.3	4.7	2.3	3.6		6.6	5.1	5.2	6.7	
	1.5	6.2			1.7	6.4		3.8		2.7	5.3	5.4	6.8	
J- 3.1	1.2	4.6	2.2	3.3	1.4	4.8	2.4	3.5		2.8	5.5	5.6	2.5	
	1.6	6.3			1.8	6.5		3.7		6.1	5.7	5.8	2.6	

TOD SCHEDULE

Table 1 (8-2-1)			Table 2 (8-2-2)			Table 3 (8-2-3)			Table 4 (8-2-4)			Table 5 (8-2-5)			Table 6 (8-2-6)		
Time	Plan	OS	Time	Plan	OS	Time	Plan	OS	Time	Plan	OS	Time	Plan	OS	Time	Plan	OS
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A
		A			A			A			A			A			A

WEEKDAY ASSIGNMENT

Weekday Table Assignments (8-2-7)						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	1	1	1	1	2	2

HOLIDAY TABLES**Floating Holiday Table (8-2-8)**

#	Mnth	Week	DOW	Table
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Fixed Holiday Table (8-2-9)

#	Mnth	Day	DOW	Table
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Solar Clock Data (8-4)

North Latitude	34
West Longitude	118
Local Time Zone	8

Sabbatical Clock (8-5)

Hebrew	Ped Recall
Sabbath	.....
Holiday	.....

Daylight Saving (8-6)

Enabled	YES
---------	-----

TOD FUNCTIONS**TOD Functions (8-3)**

#	Start	End	DOW	Action	Phases
1	0630	0900	MTWTF..	17	.....7.
2	1445	1830	MTWTF..	18	....5..
3			.....		.....
4			.....		.....
5			.....		.....
6			.....		.....
7			.....		.....
8			.....		.....
9			.....		.....
10			.....		.....
11			.....		.....
12			.....		.....
13			.....		.....
14			.....		.....
15			.....		.....
16			.....		.....

*

Action Codes:

- 0. None
- 1. Permitted
- 2. Restricted
- 4. Veh Min Recall
- 5. Veh Max Recall
- 6. Ped Recall
- 7. Bike Recall
- 8. Red Lock
- 9. Yellow Lock
- 10. Force/Max Lock
- 11. Double Entry
- 12. Y-Coord C
- 13. Y-Coord D
- 14. Free
- 15. Flashing
- 16. Walk 2
- 17. Max Green 2

18. Max Green 3

- 19. Rest in Walk
- 20. Rest in Red
- 21. Free Lag Phases
- 22. Special Functions
- 23. Truck Preempt
- 24. Conditional Service
- 25. Conditional Service
- 26. Leading Ped

41. Protected Permissive**42. Protected Permissive**

Action Code = Phases added to normal setting

100+Action Code = Phases removed

200+Action Code = Phases replaced

COMMUNICATIONS

C2 (6-1-1)	
Address	
Protocol	AB3418
Limit Access	
Baud	1200
Parity	NONE
Data Bits	8
Stop Bits	1
RTS On Time	20
RTS Off Time	20
Handshaking	NORMAL

C20 (6-1-2)	
Address	
Protocol	AB3418
Limit Access	
Baud	1200
Parity	NONE
Data Bits	8
Stop Bits	1
RTS On Time	20
RTS Off Time	20
Handshaking	NORMAL

C21 (6-1-3)	
Address	
Protocol	AB3418
Limit Access	
Baud	1200
Parity	NONE
Data Bits	8
Stop Bits	1
RTS On Time	20
RTS Off Time	20
Handshaking	NORMAL

Limit Access:

0-None

1-Status Only

2-Status, Set Pattern, Time

3-Status, Set Pattern, Time, Manual Plan

SOFT LOGIC

Soft Logic (6-2)							
#	Data	OP	Data	OP	Data	OP	Data
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							

*Refer to User's Manual for Data and OP Codes

CALLBACK NUMBERS

Callback Numbers (6-3...3)	
Line Out	
Local Toll	
Long Distance	
Delay	10
Area Code	
Phone Number	

Line Out	
Local Toll	
Long Distance	
Delay	10
Area Code	
Phone Number	

Line Out	
Local Toll	
Long Distance	
Delay	10
Area Code	
Phone Number	

RAILROAD PREEMPTION

RR 1	(3-1-1)	Timing	Phase Flags (3-1-2)			Pedestrian Flags (3-1-3)			Overlap Flags (3-1-4)		
	Delay		Grn Hold	Yel Flash	Red Flash	Walk	Flash DW	Solid DW	Grn Hold	Yel Flash	Red Flash
	Clear1	10	. 2 . . 5 . .	.....	.....	.....	.....	. 2 . 4 . 6 . 8	.....	.....	.....
	Clear 2		.....	.....	.....	.....	.....	.....	.....	.....	.....
	Clear 3		.....	.....	.....	.....	.....	.....	.....	.....	.....
	Hold		.....	.....	1 2 3 4 5 6 7 8	.....	.....	.....	.....	.....	A B C D E F
	Exit	5	Exit Parameters (3-1-5)				Configuration (3-1-6)				
	Min Grn		Phase Green	Overlap Green	Vehicle Recall	Ped Call	Port	Latching	Power-Up		
	Ped Clr		.....	.....	1 2 3 4 5 6 7 8	. 2 . 4 . 6 . 8	2.5	YES	FLASHING		

RR 2	(3-2-1)	Timing	Phase Flags (3-2-2)			Pedestrian Flags (3-2-3)			Overlap Flags (3-2-4)		
	Delay		Grn Hold	Yel Flash	Red Flash	Walk	Flash DW	Solid DW	Grn Hold	Yel Flash	Red Flash
	Clear1	10	. . . 4 . . 7 .	.....	.....	.....	.....	. 2 . 4 . 6 . 8	.....	.....	.....
	Clear 2		.....	.....	.....	.....	.....	.....	.....	.....	.....
	Clear 3		.....	.....	.....	.....	.....	.....	.....	.....	.....
	Hold		1 2 3 . . 6 . .	.....	.....	. 2 . . . 6 . .	.....	. . . 4 . . . 8	.....	.....	.....
	Exit		Exit Parameters (3-2-5)				Configuration (3-2-6)				
	Min Grn		Phase Green	Overlap Green	Vehicle Recall	Ped Recall	Port	Latching	Power-up		
	Ped Clr		.....	.....	. . . 4 . . 7 .	.....	2.6	YES	DARK		

EMERGENCY VEHICLE PREEMPTION

EVA (3-A)	Preempt Timers			Phase Green	Overlap Green
	Delay	Clear	Max		
	*	5	40	. 2 . . 5 . .	.....
	Port	Latching	Phase Termination		
	5.5	NO	ADVANCE		

EVC (3-C)	Preempt Timers			Phase Green	Overlap Green
	Delay	Clear	Max		
	*	5	40	1 6 . .	.....
	Port	Latching	Phase Termination		
	5.7	NO	ADVANCE		

EVB (3-B)	Preempt Timers			Phase Green	Overlap Green
	Delay	Clear	Max		
		30	30	. . . 4 . . 7 .	.....
	Port	Latching	Phase Termination		
	5.6	NO	ADVANCE		

EVD (3-D)	Preempt Timers			Phase Green	Overlap Green
	Delay	Clear	Max		
		30	30	. . 3 8	.....
	Port	Latching	Phase Termination		
	5.8	NO	ADVANCE		

INPUTS

7 Wire I/C (2-1-5-1)					
		Input	Port	Input	Port
Enable	NO	R1	3.8	Free	3.6
Max ON		R2	3.5	D2	2.8
Max OFF		R3	3.7	D3	6.1

Manual Control (2-1-5-2)	
Input	Port
Manual Advance	6.6
Advance Enable	6.6

Battery Backup (2-1-5-5)	
Port	Operation
	NORMAL

Y-Coordination (2-1-5-6)	
Port C	Port D
6.1	2.8

Cabinet Status (2-1-5-3)	
Input	Port
Flash Bus	
Door Ajar	
Flash Sense	6.7
Stop Time	6.8

Special Function (2-1-5-4)	
Input	Port
1	
2	
3	
4	

OUTPUTS

Loadswitch Assignments (2-1-6)							
				*			
							+
A	1	2	22	3	4	25	0
B	5	6	26	7	8	21	0
X	11	14	0	9	10	0	0

Loadswitch Codes:

0 Unused (no output)

1-8 Vehicle 1-8

9-14 Overlap A-F

21-28 Ped 1-8

41-47 Special Functions

41 Protected Permissive Flashing Phase 1

43 Protected Permissive Flashing Phase 3

45 Protected Permissive Flashing Phase 5

47 Protected Permissive Flashing Phase 7

51-57 Special Functions

71-72 Seven Wire I/C

+ middle output of
loadswitches 3 and 6
Channel 9 and 10

YELLOW YIELD COORDINATION

					Force-Offs								Coord	Lag	Min Recall	Restricted
Y-Coord Plans (7-C,D)	Long Grn	No Grn	Offset	Perm	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-				
Plan C													. 2 . . . 6 . .	. 2 . 4 . 6 . 8	.....	.....
Plan D													. 2 . . . 6 . .	. 2 . 4 . 6 . 8	.....	.....

TRANSIT PRIORITY

Local Plans (3-E1...9)		Early Green	Green Extend	Inhibit Cycles	Phase 1 Minimum	Phase 2 Minimum	Phase 3 Minimum	Phase 4 Minimum	Phase 5 Minimum	Phase 6 Minimum	Phase 7 Minimum	Phase 8 Minimum
Plan 1	Green Factor											
Plan 2	Green Factor											
Plan 3	Green Factor											
Plan 4	Green Factor											
Plan 5	Green Factor											
Plan 6	Green Factor											
Plan 7	Green Factor											
Plan 8	Green Factor											
Plan 9	Green Factor											

Enable Priority (3-E-A)

Enable in Plan

Free Plans (3-E-E)

Max Green Hold Hold Phase

.....

Access Utilities (9-5)

Password ***

Timeout

TRUCK PREEMPTION

Truck Preemption (3-F)	Passage	CarryOver	Clearance	Next Preempt	Phase Green	Det 2 Port	Det 3 Port	Det 4 Port	Sign Output	Slave Input	Slave Output