

MS # 513

N

US-7 NORTH

CHAMPLAIN LANES

STOP
BUS

ONLY

MARTINDALE ROAD

- ⊙ PEDESTAL POST
- Ⓟ PEDESTRIAN SIGNAL
- ⌚ PREEMPTION DETECTOR
- ⌚ PREEMPTION STROBE
- ⌚ L.E.D REGULATORY SIGN
- ⊠ CONTROL BOX
- MAST ARM
- LOOP DETECTION
- JB JUNCTION BOX
- PB PULL BOX
- ⌚ LUMINAIRE
- ⌚ STANCHION
- ⌚ ROADWAY SIGN

US-7 SOUTH

- (A) =
- (D) =
- (S) =
- (T) =

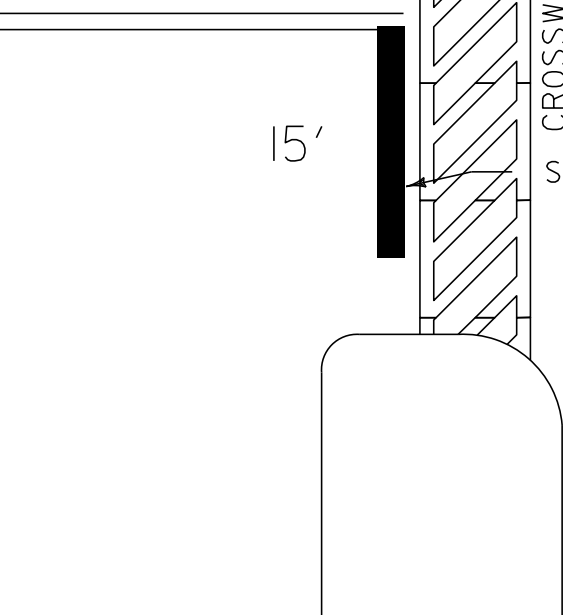
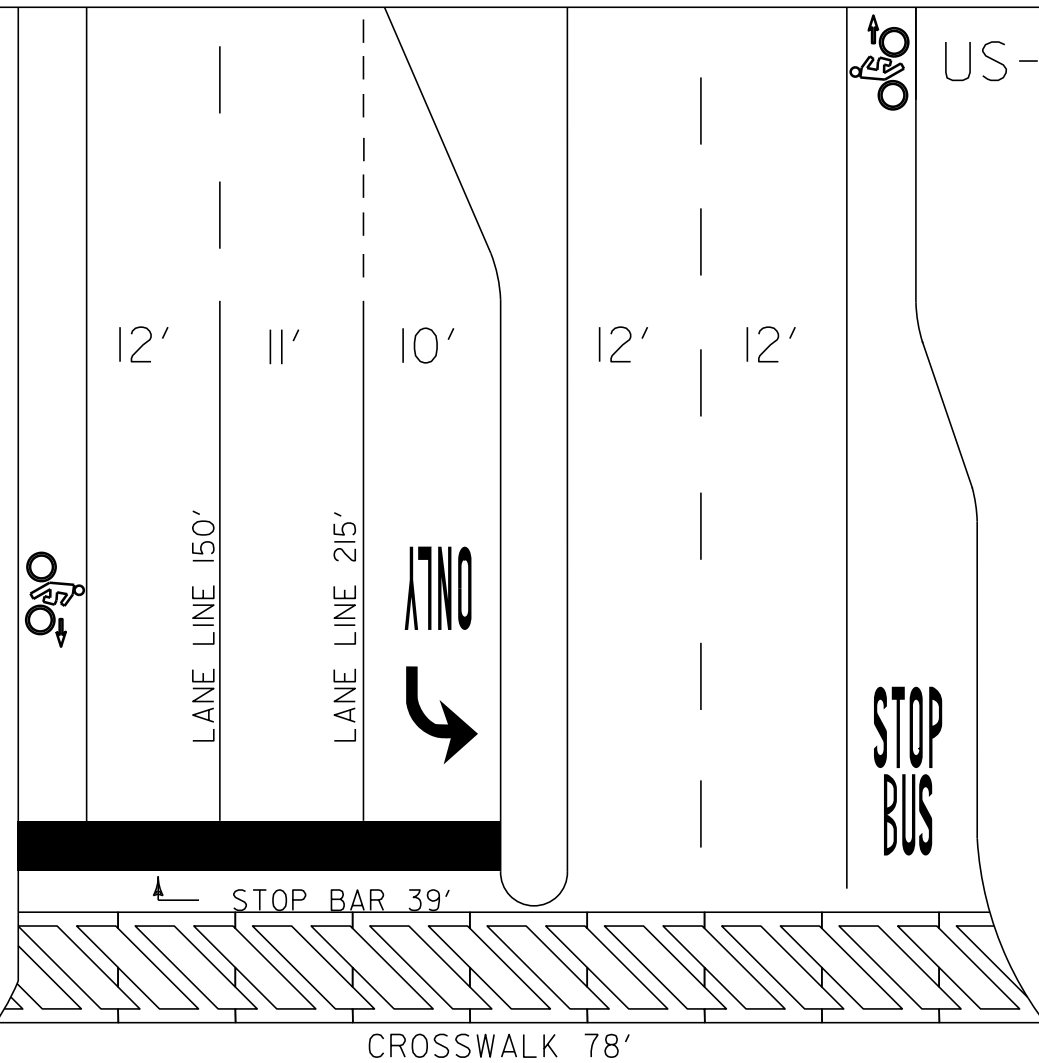
NOT TO SCALE

MS # 513

N

CHAMPLAIN LANES

US-7 NORTH



US-7 SOUTH

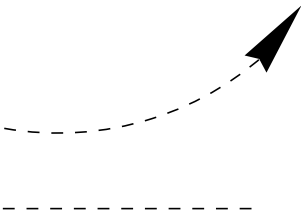
MARTINDALE ROAD

NOT TO SCALE

D I A G R A M N ↑				
TIMING	G = Y =	G = Y =	G = Y =	G = Y =
D I A G R A M				
TIMING	G = Y =	G = Y =	G = Y =	G = Y =



PROTECTED
TURNS



PERMITTED
TURNS

PEDESTRIAN

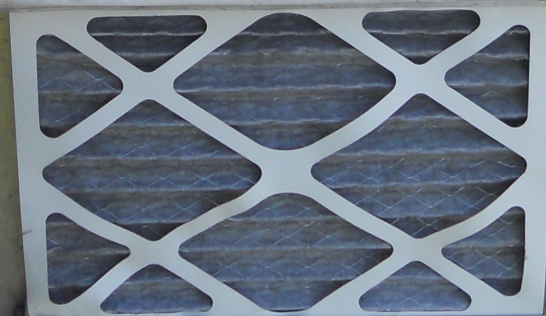
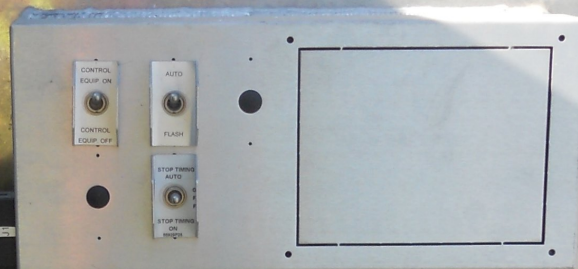
CYCLE LENGTH, C= _____ S

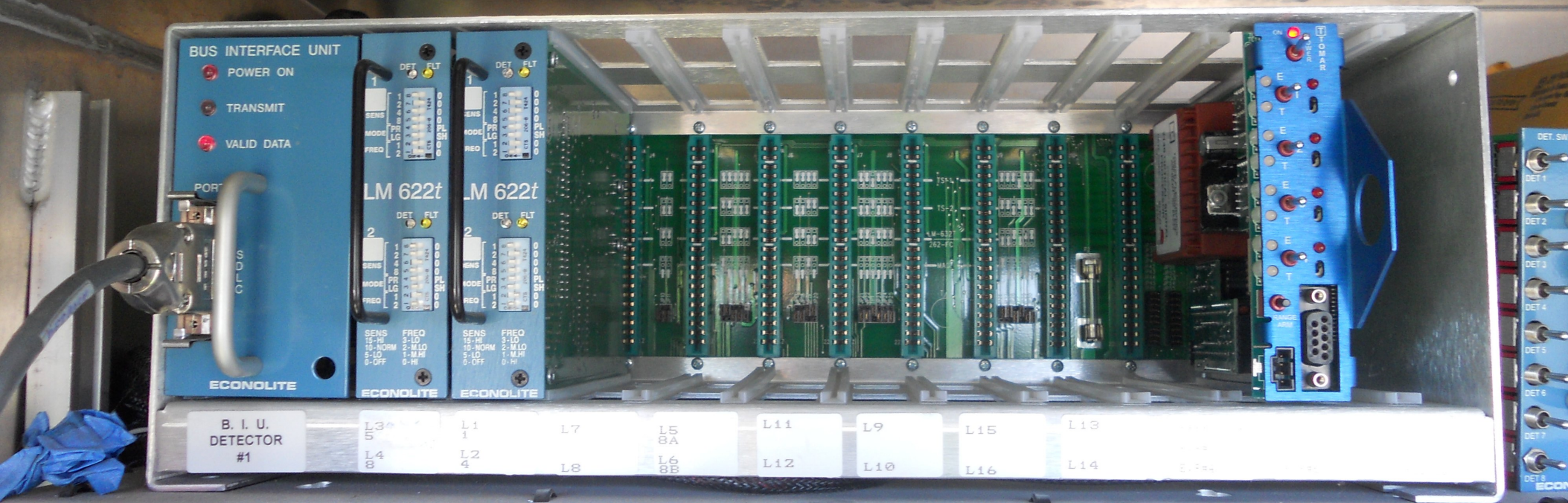


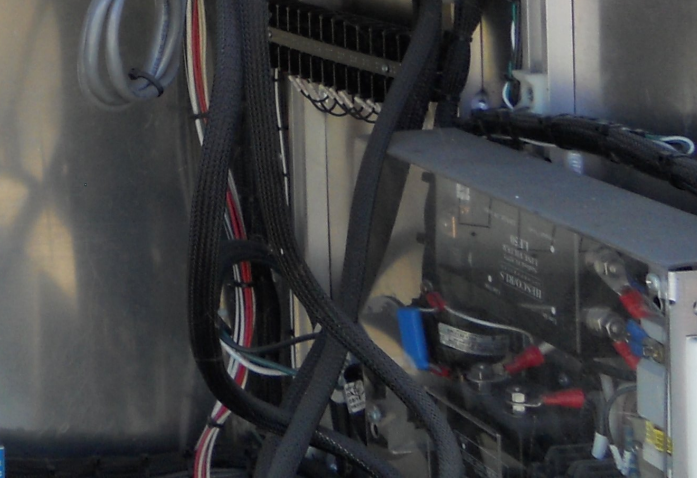
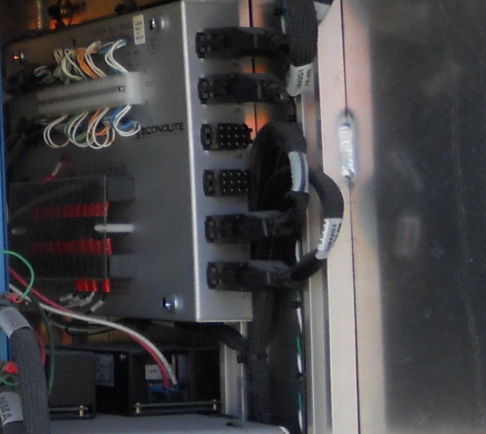
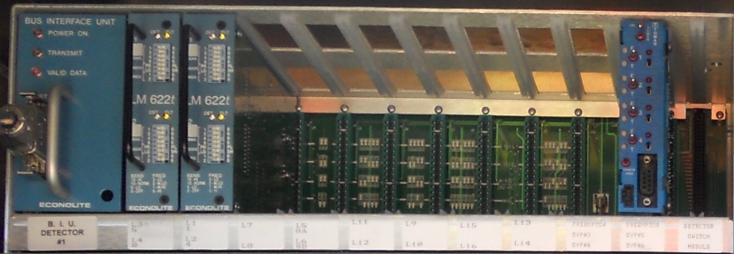
PROPERTY OF :
VT. AGENCY OF TRANS.
MAINTENANCE DIV.
IN EMERGENCY CALL :
DIST. TRANS. OFFICE
655 - 1580 COLCHESTER
NIGHTS & WEEKENDS : 878-7111
INTERSECTION NO. MS-513

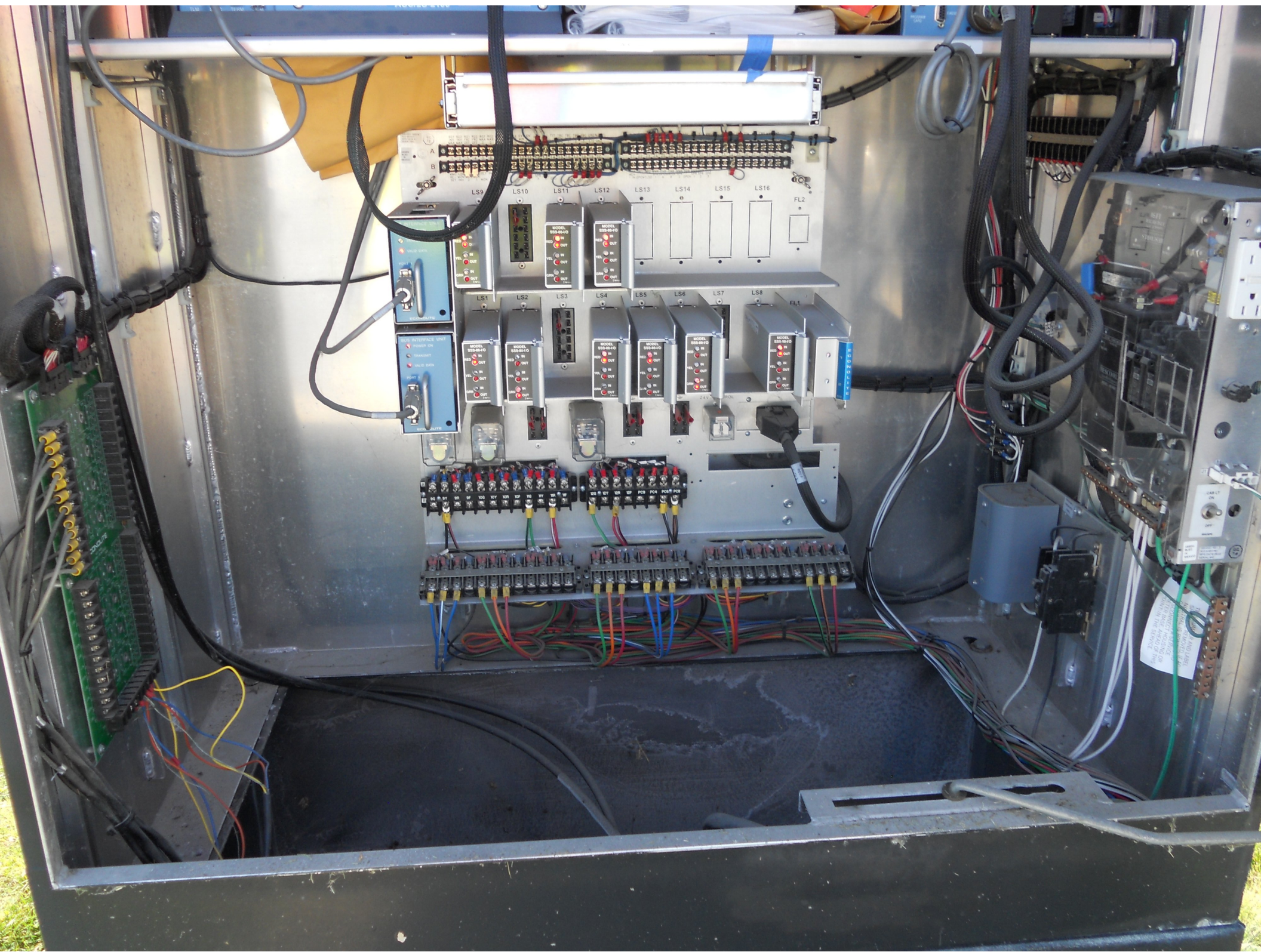
115 VOLTS A.C.

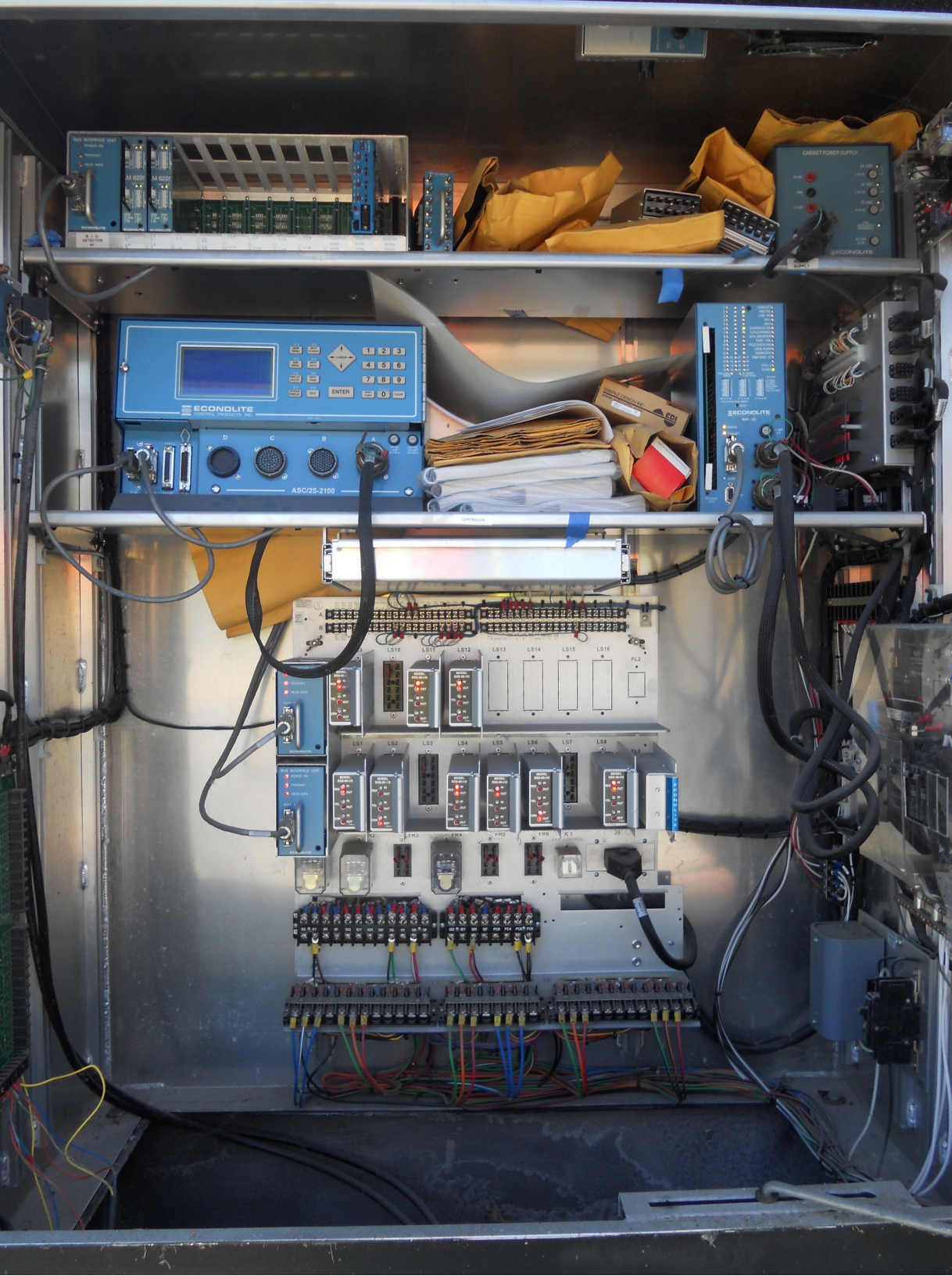
DO NOT OPERATE
CABINET WITHOUT
CMU / MMU

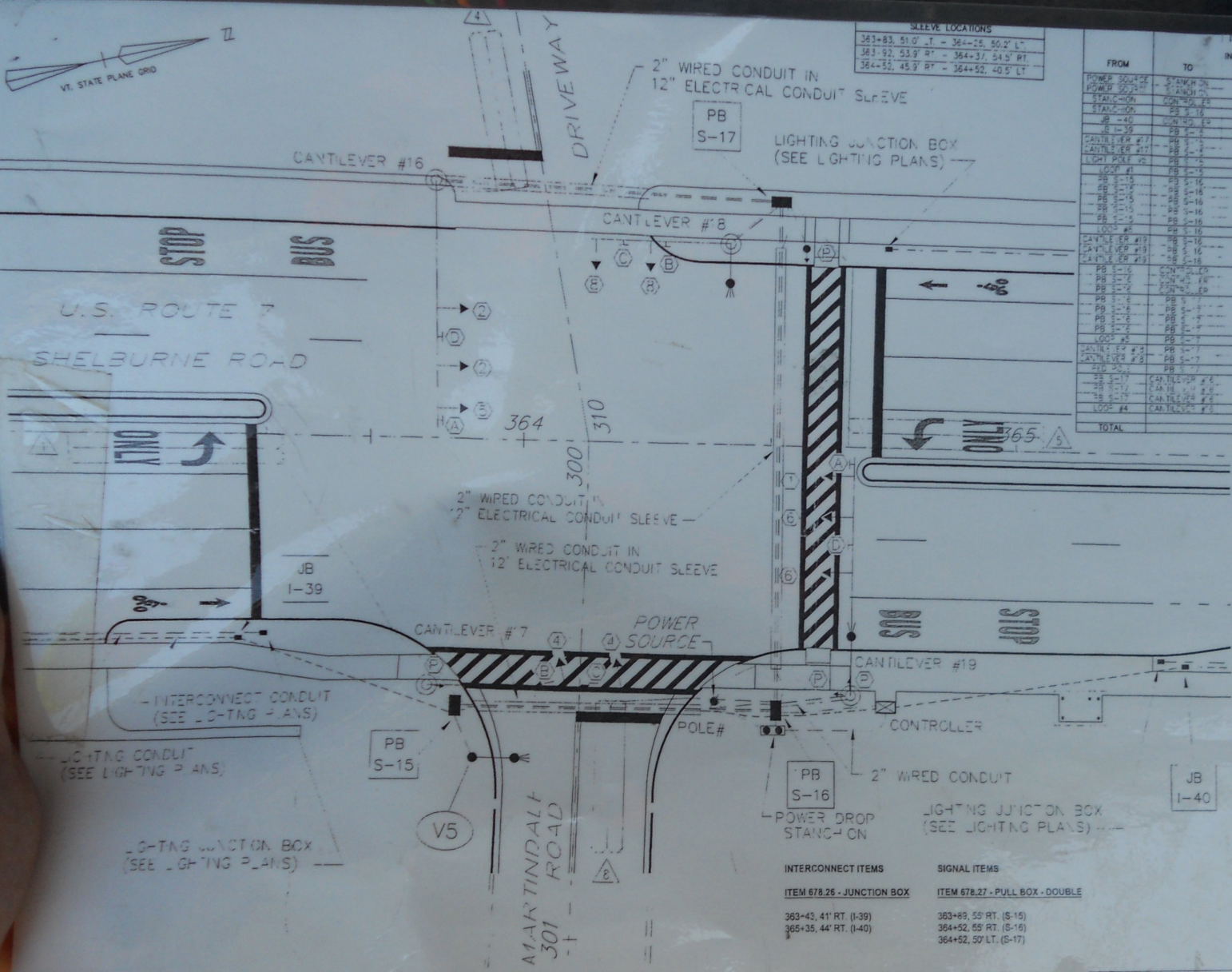
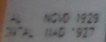












SLEEVE LOCATIONS	
363+83, 51.0' LT	- 364+25, 50.2' LT
363+92, 53.9' RT	- 364+37, 54.5' RT
364+52, 45.9' RT	- 364+52, 40.5' LT

FROM		TO	ITEM 678.23 (MOD.) ITEM 678.21 ELECTRICAL CONDUIT 3"	ITEM 678.23 WIRED CONDUIT 2"	ITEM 678.30 ELECTRICAL CONDUIT SLEEVE 2 1/2"	ITEM 678.30 ELECTRICAL CONDUIT SLEEVE 6"	ITEM 678.30 ELECTRICAL CONDUIT SLEEVE 12"	DESCRIPTION
POWER SOURCE	2	1	1	1	1	1	1	POWER SOURCE
POWER SOURCE	2	1	1	1	1	1	1	POWER SOURCE
STATION	1	1	1	1	1	1	1	STATION
STATION	1	1	1	1	1	1	1	STATION
JB - 40	1	1	1	1	1	1	1	JB - 40
JB - 30	1	1	1	1	1	1	1	JB - 30
CABLE TIE #1	1	1	1	1	1	1	1	CABLE TIE #1
CABLE TIE #2	1	1	1	1	1	1	1	CABLE TIE #2
LIGHT POLE #1	1	1	1	1	1	1	1	LIGHT POLE #1
LOOP #1	1	1	1	1	1	1	1	LOOP #1
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
LOOP #5	1	1	1	1	1	1	1	LOOP #5
CABLE TIE #19	1	1	1	1	1	1	1	CABLE TIE #19
CABLE TIE #19	1	1	1	1	1	1	1	CABLE TIE #19
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
LOOP #5	1	1	1	1	1	1	1	LOOP #5
CABLE TIE #19	1	1	1	1	1	1	1	CABLE TIE #19
CABLE TIE #19	1	1	1	1	1	1	1	CABLE TIE #19
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
LOOP #5	1	1	1	1	1	1	1	LOOP #5
CABLE TIE #19	1	1	1	1	1	1	1	CABLE TIE #19
CABLE TIE #19	1	1	1	1	1	1	1	CABLE TIE #19
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
PB - 15	1	1	1	1	1	1	1	PB - 15
LOOP #4	1	1	1	1	1	1	1	LOOP #4
TOTAL								

SIGNAL FACE ARRANGEMENT
(12 DIVISIONS)

		
		
		
RED FACE	YELLOW FACE	GREEN FACE

OVERHEAD SIGN ARRANGEMENT
8' x 14' 4 1/2" x 11' 1/2" x 11' 1/2"

ONLY
A

SHELDON RD
WARTONDALE RD

LED SIGNAL

LEGEND

• NEW SIGNAL TRACE
--- NEW SIGNAL REF. AL. SIGNAL W/RT
OR EXIST. W/RT
••• NEW PULSE
••• NEW JUNCTION BOX
••• NEW POWER STATION
••• NEW SIGNAL CIRCUIT
••• NEW "EMERGENCY" SIGNAL
••• NEW POWER POLE

INTERCONNECT ITEMS	SIGNAL ITEMS
<u>ITEM 678.26 - JUNCTION BOX</u>	<u>ITEM 678.27 - PULL BOX - DOUBLE</u>
363+43, 41' RT. (I-39)	363+89, 55' RT. (S-15)
365+35, 44' RT. (I-40)	364+52, 55' RT. (S-16)
	364+52, 50' LT. (S-17)

NOTES:
SEE SIGNAL DRAWING NOS. 1 & 2 FOR
TRAFFIC SIGNAL & GENERAL NOTES AND
LIST OF MAJOR EQUIPMENT.

4 13.04

SCALE: 1"=10'

0 10 20

SHEET NO. 1

PROJECT: 100-019-001

SHEET: DRAWING NO. 11

DATE: 01/29/07

INTERSECTION NO. MS-513 (US 7 - MARTINDALE ROAD)



DO NOT BREAK SEAL
NO FUSES INSIDE





SHELBURNE RD















250 / 320
/ SI / 5 GA
/ 280 / 7 GA







LEFT TURN
OR
U
TURN

ALL-BODY
EXCHANGE



MARTINDALE RD





MARTINDALE RD

d Air Express
OF NEW ENGLAND



NO
PARKING





15.00" / 32.0"
65KSI / .219"
3.70" / 49.0" / .25" / 7





INES
MYER
PIZZO



SHELBURNE RD



LEGAL LOAD
LIMIT



SHELBURNE RD

LEGAL LOAD
LIMIT
24,000
POUNDS

25



12.50" / 20.0"
35KSI / 5.64
10.14" / 39.0" / 3.84









MARTINDALE RD



NO











MARTINDALE RD



SHELBURN



NO
PARKING



15.00" / 20.0"
65 KSI / .219"
13.10" / 49.0" / 25" / 7 GA

[illegible]

Dimming:

[illegible]

Coordination Patterns

Pattern 1

Cycle Length . . . 70 COS 111

Offset 56

Vehicle Permissive . . [1] 0 [2] 0

Vehicle Perm 2 Displacement 0 Phase Reservice. . NO

Splits: Phase 1- 14 2- 34 3- 0 4- 22

Phase 5- 14 6- 34 7- 0 8- 22

Phase 9- 0 10- 0 11- 0 12- 0 Split Sum: 0

Split Extension/Ring [1] 0 [2] 0

Split Demand Pattern [1] 0 [2] 0

XRT Pattern. . . 0

Phase Number: 1 2 3 4 5 6 7 8 9 10 11 12

Coord Phases . . . X . . . X

Veh Recall

Veh Max Recall . . X . . . X

Ped Recall

Veh Omit

Alt Sequence . . A: . B: . C: . D: . E: . F: .

Pattern 2

Cycle Length . . . 70 COS 211

Offset 7

Vehicle Permissive . . [1] 0 [2] 0

Vehicle Perm 2 Displacement 0 Phase Reservice. . NO

Splits: Phase 1- 14 2- 34 3- 0 4- 22

Phase 5- 14 6- 34 7- 0 8- 22

Phase 9- 0 10- 0 11- 0 12- 0 Split Sum: 0

Split Extension/Ring [1] 0 [2] 0

Split Demand Pattern [1] 0 [2] 0

XRT Pattern. . . 0

Phase Number: 1 2 3 4 5 6 7 8 9 10 11 12

Coord Phases . . . X . . . X

Veh Recall

Veh Max Recall . . X . . . X

Ped Recall

Veh Omit

Alt Sequence . . A: . B: . C: . D: . E: . F: .

Pattern 3

Cycle Length . . . 80 COS 311

Offset 12

Vehicle Permissive . . [1] 0 [2] 0

Vehicle Perm 2 Displacement 0 Phase Reservice. . NO

Splits: Phase 1- 14 2- 44 3- 0 4- 22

Phase 5- 14 6- 44 7- 0 8- 22

Phase 9- 0 10- 0 11- 0 12- 0 Split Sum: 0

Split Extension/Ring [1] 0 [2] 0

Split Demand Pattern [1] 0 [2] 0

XRT Pattern. . . 0

Phase Number: 1 2 3 4 5 6 7 8 9 10 11 12

Coord Phases . . . X . . . X

Veh Recall

Veh Max Recall . . X . . . X

Ped Recall

Veh Omit

Alt Sequence . . A: . B: . C: . D: . E: . F: .

.....

[illegible][illegible]

NIC Program Steps

Step	Program	Step Begins	Pattern	Override
1	1	0600	1	NO
2	1	0800	2	NO
3	1	1600	3	NO
4	1	1800	2	NO
5	2	0600	2	NO
6	2	1130	3	NO
7	2	1600	2	NO

TOD Program Steps

Step 1 Program 1 Step Begins 0600

Flash.	Dimming Enable.
Red Rest	Alt Veh Extension
Spare 5.	Det Log Enable.
Spare 3.	Spare 4
Type 0 Dly Enable. . .	Spare 2
Det Diag Plan. . . . 0	

	Phase Number											
	1	2	3	4	5	6	7	8	9	10	11	12
Max 2 Enable	.	.	.	.	.	.	.	.	.	.	.	.
Max 3 Enable	.	.	.	.	.	.	.	.	.	.	.	.
Veh Recall	.	.	.	.	.	.	.	.	.	.	.	.
Veh Max Recall	.	.	.	.	.	.	.	.	.	.	.	.
Ped Recall	.	.	.	.	.	.	.	.	.	.	.	.
Cond Service Inhibit.	.	.	.	.	.	.	.	.	.	.	.	.
Phase Omit	.	.	.	.	.	.	.	.	.	.	.	.
Special Function	.	.	.	.	.	.	.	.	.	.	.	.

	A	B	C	D	E	F
Alt Sequence	.	.	.	.	.	.

Step 2 Program 1 Step Begins 0800

Flash.	Dimming Enable.
Red Rest	Alt Veh Extension
Spare 5.	Det Log Enable.
Spare 3.	Spare 4
Type 0 Dly Enable. . .	Spare 2
Det Diag Plan. . . . 0	

	Phase Number											
	1	2	3	4	5	6	7	8	9	10	11	12
Max 2 Enable	X	X	.	X	X	X	.	X	.	.	.	.
Max 3 Enable	.	.	.	.	.	.	.	.	.	.	.	.
Veh Recall	.	.	.	.	.	.	.	.	.	.	.	.
Veh Max Recall	.	.	.	.	.	.	.	.	.	.	.	.
Ped Recall	.	.	.	.	.	.	.	.	.	.	.	.
Cond Service Inhibit.	.	.	.	.	.	.	.	.	.	.	.	.
Phase Omit	.	.	.	.	.	.	.	.	.	.	.	.
Special Function	.	.	.	.	.	.	.	.	.	.	.	.

	A	B	C	D	E	F
Alt Sequence	.	.	.	.	.	.

TOD Program Steps

Step 3 Program 1 Step Begins 1600

Flash.	Dimming Enable.
Red Rest	Alt Veh Extension
Spare 5.	Det Log Enable.
Spare 3.	Spare 4
Type 0 Dly Enable. . .	Spare 2
Det Diag Plan. . . . 0	

	Phase Number											
	1	2	3	4	5	6	7	8	9	10	11	12
Max 2 Enable	.	.	.	.	.	.	.	.	.	.	.	.
Max 3 Enable	X	X	.	X	X	X	.	X	.	.	.	.
Veh Recall	.	.	.	.	.	.	.	.	.	.	.	.
Veh Max Recall	.	.	.	.	.	.	.	.	.	.	.	.
Ped Recall	.	.	.	.	.	.	.	.	.	.	.	.
Cond Service Inhibit.	.	.	.	.	.	.	.	.	.	.	.	.
Phase Omit	.	.	.	.	.	.	.	.	.	.	.	.
Special Function	.	.	.	.	.	.	.	.	.	.	.	.

	A	B	C	D	E	F
Alt Sequence	.	.	.	.	.	.

Step 4 Program 1 Step Begins 1800

Flash.	Dimming Enable.
Red Rest	Alt Veh Extension
Spare 5.	Det Log Enable.
Spare 3.	Spare 4
Type 0 Dly Enable. . .	Spare 2
Det Diag Plan. . . . 0	

	Phase Number											
	1	2	3	4	5	6	7	8	9	10	11	12
Max 2 Enable	X	X	.	X	X	X	.	X	.	.	.	.
Max 3 Enable	.	.	.	.	.	.	.	.	.	.	.	.
Veh Recall	.	.	.	.	.	.	.	.	.	.	.	.
Veh Max Recall	.	.	.	.	.	.	.	.	.	.	.	.
Ped Recall	.	.	.	.	.	.	.	.	.	.	.	.
Cond Service Inhibit.	.	.	.	.	.	.	.	.	.	.	.	.
Phase Omit	.	.	.	.	.	.	.	.	.	.	.	.
Special Function	.	.	.	.	.	.	.	.	.	.	.	.

	A	B	C	D	E	F
Alt Sequence	.	.	.	.	.	.

TOD Program Steps

Step 5 Program 2 Step Begins 0600

Flash.	Dimming Enable.
Red Rest	Alt Veh Extension
Spare 5.	Det Log Enable.
Spare 3.	Spare 4
Type 0 Dly Enable. . .	Spare 2
Det Diag Plan. . . . 0	

	Phase Number											
	1	2	3	4	5	6	7	8	9	10	11	12
Max 2 Enable	X	X	.	X	X	X	.	X	.	.	.	.
Max 3 Enable	.	.	.	.	.	.	.	.	.	.	.	.
Veh Recall	.	.	.	.	.	.	.	.	.	.	.	.
Veh Max Recall	.	.	.	.	.	.	.	.	.	.	.	.
Ped Recall	.	.	.	.	.	.	.	.	.	.	.	.
Cond Service Inhibit.	.	.	.	.	.	.	.	.	.	.	.	.
Phase Omit	.	.	.	.	.	.	.	.	.	.	.	.
Special Function	.	.	.	.	.	.	.	.	.	.	.	.

	A	B	C	D	E	F
Alt Sequence	.	.	.	.	.	.

Step 6 Program 2 Step Begins 1130

Flash.	Dimming Enable.
Red Rest	Alt Veh Extension
Spare 5.	Det Log Enable.
Spare 3.	Spare 4
Type 0 Dly Enable. . .	Spare 2
Det Diag Plan. . . . 0	

	Phase Number											
	1	2	3	4	5	6	7	8	9	10	11	12
Max 2 Enable	.	.	.	.	.	.	.	.	.	.	.	.
Max 3 Enable	X	X	.	X	X	X	.	X	.	.	.	.
Veh Recall	.	.	.	.	.	.	.	.	.	.	.	.
Veh Max Recall	.	.	.	.	.	.	.	.	.	.	.	.
Ped Recall	.	.	.	.	.	.	.	.	.	.	.	.
Cond Service Inhibit.	.	.	.	.	.	.	.	.	.	.	.	.
Phase Omit	.	.	.	.	.	.	.	.	.	.	.	.
Special Function	.	.	.	.	.	.	.	.	.	.	.	.

	A	B	C	D	E	F
Alt Sequence	.	.	.	.	.	.

TOD Program Steps

Step 7 Program 2 Step Begins 1600

Flash.	Dimming Enable.
Red Rest	Alt Veh Extension
Spare 5.	Det Log Enable.
Spare 3.	Spare 4
Type 0 Dly Enable. . .	Spare 2
Det Diag Plan. . . . 0	

	Phase Number											
	1	2	3	4	5	6	7	8	9	10	11	12
Max 2 Enable	X	X	.	X	X	X	.	X	.	.	.	.
Max 3 Enable	.	.	.	.	.	.	.	.	.	.	.	.
Veh Recall	.	.	.	.	.	.	.	.	.	.	.	.
Veh Max Recall	.	.	.	.	.	.	.	.	.	.	.	.
Ped Recall	.	.	.	.	.	.	.	.	.	.	.	.
Cond Service Inhibit.	.	.	.	.	.	.	.	.	.	.	.	.
Phase Omit	.	.	.	.	.	.	.	.	.	.	.	.
Special Function	.	.	.	.	.	.	.	.	.	.	.	.

	A	B	C	D	E	F
Alt Sequence	.	.	.	.	.	.

Step 9 Program 1 Step Begins 0000

Flash.	Dimming Enable.
Red Rest	Alt Veh Extension
Spare 5.	Det Log Enable.
Spare 3.	Spare 4
Type 0 Dly Enable. . .	Spare 2
Det Diag Plan. . . . 0	

	Phase Number											
	1	2	3	4	5	6	7	8	9	10	11	12
Max 2 Enable	.	.	.	.	.	.	.	.	.	.	.	.
Max 3 Enable	.	.	.	.	.	.	.	.	.	.	.	.
Veh Recall	.	.	.	.	.	.	.	.	.	.	.	.
Veh Max Recall	.	.	.	.	.	.	.	.	.	.	.	.
Ped Recall	.	.	.	.	.	.	.	.	.	.	.	.
Cond Service Inhibit.	.	.	.	.	.	.	.	.	.	.	.	.
Phase Omit	.	.	.	.	.	.	.	.	.	.	.	.
Special Function	.	.	.	.	.	.	.	.	.	.	.	.

	A	B	C	D	E	F
Alt Sequence	.	.	.	.	.	.

TOD Program Steps

Step 10 Program 2 Step Begins 0000

Flash.	Dimming Enable.
Red Rest	Alt Veh Extension
Spare 5.	Det Log Enable.
Spare 3.	Spare 4
Type 0 Dly Enable. . .	Spare 2
Det Diag Plan. . . . 0	

	Phase Number											
	1	2	3	4	5	6	7	8	9	10	11	12
Max 2 Enable	.	.	.	.	.	.	.	.	.	.	.	.
Max 3 Enable	.	.	.	.	.	.	.	.	.	.	.	.
Veh Recall	.	.	.	.	.	.	.	.	.	.	.	.
Veh Max Recall	.	.	.	.	.	.	.	.	.	.	.	.
Ped Recall	.	.	.	.	.	.	.	.	.	.	.	.
Cond Service Inhibit.	.	.	.	.	.	.	.	.	.	.	.	.
Phase Omit	.	.	.	.	.	.	.	.	.	.	.	.
Special Function	.	.	.	.	.	.	.	.	.	.	.	.

	A	B	C	D	E	F
Alt Sequence	.	.	.	.	.	.
