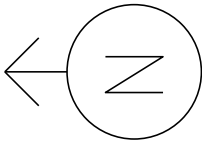


MS # 550

VT 15 EAST

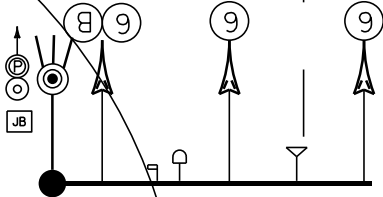


- ⊙ PEDESTAL POST
- ⊙→ PEDESTRIAN SIGNAL
- ⌞ PREEMPTION DETECTOR
- ⌞ PREEMPTION STROBE
- ∟ VIDEO CAMERA
- ⊠ CONTROL BOX
- MAST ARM
- ▭ VIDEO DETECTION
- JB JUNCTION BOX
- ∟ LUMINAIRE
- STANCHION
- ROADWAY SIGN

- ⓑ =
- ⓓ =
- ⓐ =

ETHAN ALLEN AVE.

4



6

6

6

ONLY

ONLY

ONLY

5

D

2

2

4

4



ONLY

5

2

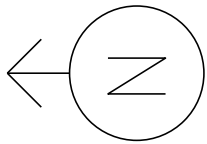
2

ONLY

NOT TO SCALE

VT 15 WEST

MS # 550



VT 15 EAST

ETHAN ALLEN AVE.

12'

STOP BAR 14'

12'

CROSSWALK 58'

LANE LINE 105'

STOP BAR 34'

ONLY

ONLY

ONLY

STOP BAR 22'

LANE LINE 115'

ONLY

11'

11'

11'

11'

11'

NOT TO SCALE

VT 15 WEST

D I A G R A M z	Ø 1 5 2	Ø 2 6 9 2	Ø 3 OVERLAP 6 4	Ø 4
TIMING	G = Y =	G = Y =	G = Y =	G = Y =
D I A G R A M	Ø 5	Ø 6	Ø 7	Ø 8
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:
INT. TRANS. OFFICE 855-800
NIGHTS & WEEKENDS: 878-7701
INTERSECTION NO. WS-550

DANGER
115 VOLTS A.C.

WARNING
DO NOT OPERATE
CABINET WITHOUT
CMU / MMU
CABINET WIRING TO NORMA 100-1009 OR LATER

TURN ON
4-7-2011

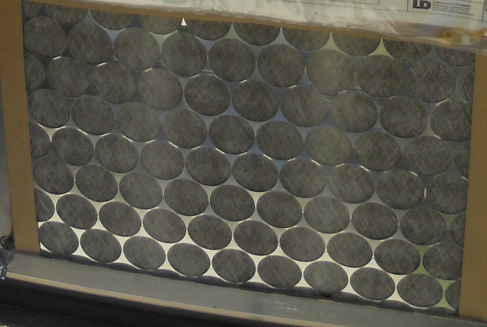
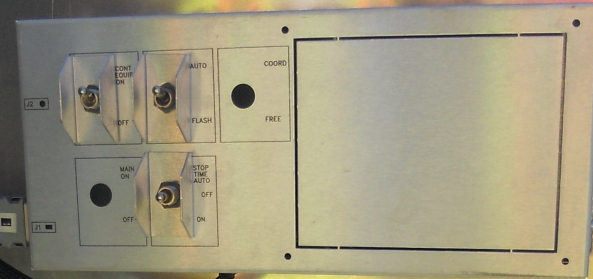
43
86
↓
↓

ORANGE

V1
4 →

5
2
V2

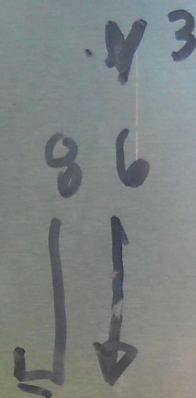
SECONDARY
11-1177
76-90A
C7-34VE-00



GER
TS A.C.

NING
OPERATE
WITHOUT
/ MMU
EMA TS2-1998 OR LATER

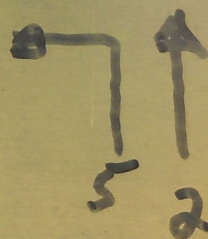
TURN ON
4-7-2011



GREEN

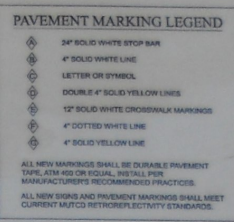
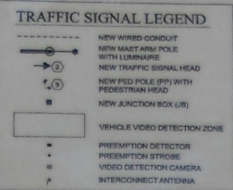
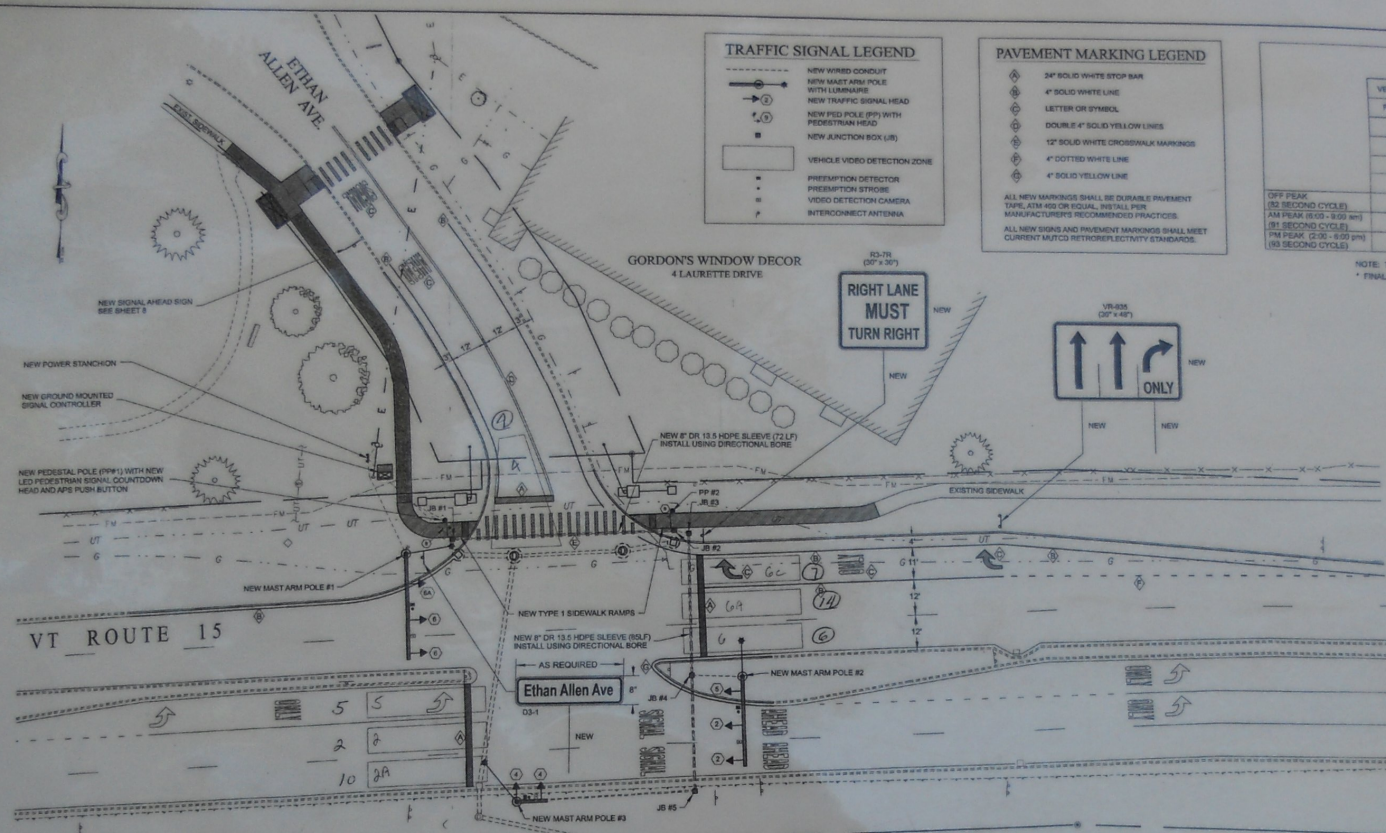
V1

ORANGE
4 →



Yellow

V2

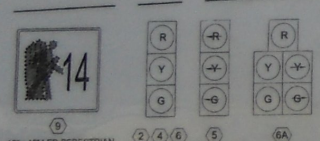


	PHASE 3-4	PHASE 2-4	PHASE 3-4 WITH PED	PHASE 4 & 6A	PREEMPTION
VEHICLE EXTENSION	5			5	
RIGHT TURN DELAY		5	5		
MINIMUM GREEN	7			7	
YELLOW CLEAR	4	4	4	4	4
RED CLEAR	2	2	2	2	2
OFF PEAK (30 SECOND CYCLE)					
AM PEAK (15:00 - 18:00)	9	43	4	43	12
PM PEAK (15:00 - 18:00)	7	51	4	51	15
TRM PEAK (23:00 - 05:00)	15	47	4	47	18

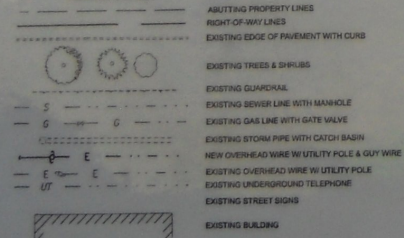
NOTE: THERE SHALL BE NO SCHEDULED FLAMING TIME PERIODS. THE SIGNAL SHALL RUN ON OFF PEAK THROUGHOUT THE DAY.
* FINAL PREEMPTION TIMINGS TO BE DETERMINED AFTER INSTALLATION WITH INPUT FROM LOCAL FIRE/RESCUE DEPARTMENT

PROPOSED SIGNAL TIMINGS

CONDUIT SCHEDULE				
FROM	TO	WIRE/CONDUIT	DESCRIPTION	
UTILITY POLE	POWER STATION	5"	ELECTRICAL SERVICE	
POWER STATION	CONTROLLER CABINET	3"	ELECTRICAL SERVICE	
POWER STATION	MAST ARM POLE #1	30'	STREET LIGHT WIRING	
POWER STATION	JB #1	40'	STREET LIGHT WIRING	
JB #1	JB #2	74'	STREET LIGHT WIRING	
JB #2	JB #3	5'	STREET LIGHT WIRING	
JB #3	JB #4	48'	STREET LIGHT WIRING	
JB #4	MAST ARM POLE #2	16'	STREET LIGHT WIRING	
JB #4	JB #5	39'	STREET LIGHT WIRING	
JB #5	MAST ARM POLE #3	58'	STREET LIGHT WIRING	
CONTROLLER CABINET	MAST ARM POLE #1	29'	ANTENNA COAX LEAD-IN	
CONTROLLER CABINET	MAST ARM POLE #1	29'	SIGNAL WIRING	
CONTROLLER CABINET	JB #1	30'	SIGNAL WIRING	
JB #1	PEDESTAL POLE #1	8'	SIGNAL WIRING	
JB #1	JB #2	74'	SIGNAL WIRING	
JB #2	PEDESTAL POLE #2	8'	SIGNAL WIRING	
JB #2	JB #3	5'	SIGNAL WIRING	
JB #3	JB #4	48'	SIGNAL WIRING	
JB #4	MAST ARM POLE #2	16'	SIGNAL WIRING	
JB #4	JB #5	39'	SIGNAL WIRING	
JB #5	MAST ARM POLE #3	58'	SIGNAL WIRING	
FROM	TO	CONDUIT	DESCRIPTION	
JB #1	JB #2	74'	SPARE	
JB #2	JB #3	5'	SPARE	
JB #3	JB #4	48'	SPARE	
JB #4	JB #5	39'	SPARE	



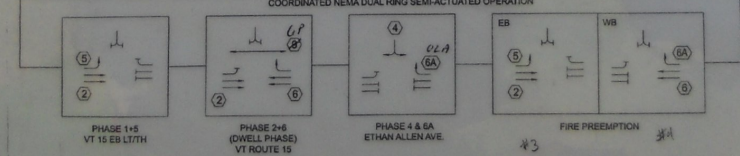
LEGEND



THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

2010 AAWDT	2020	2010 AAWDT	2020
AM	OFF	AM	OFF
711	1810	112	1044

NEW SIGNAL CONTROLLER TO BE PROGRAMED FOR COORDINATED NEMA DUAL RING SEMI-ACTUATED OPERATION



PROPOSED SIGNAL PHASING

LIST OF MAJOR EQUIPMENT

EQUIPMENT	QUANTITY
MAST ARM POLES & FOUNDATIONS	3
12" POLYCARBONATE TRAFFIC SIGNAL HEADS WITH TUNNEL VISORS AND MOUNTING HARDWARE	7
3-SECTION HEAD 5-SECTION HEAD	1
LED HANDMAN COUNTDOWN PEDESTRIAN SIGNAL HEADS	2
PEDESTAL POLE & FOUNDATIONS	2
ACCESSIBLE PEDESTRIAN PUSH BUTTON ASSEMBLY	2
JUNCTION BOXES	5
VIDEO CAMERAS	3
WIRELESS INTERCONNECT & YAGI ANTENNA	1
GROUND MOUNT SIGNAL CONTROLLER CABINET & CONTROLLER	1
EMERGENCY PREEMPTION SYSTEM	1
EMERGENCY PREEMPTION SYSTEM (BID ALTERNATE #1)	1

THE QUANTITIES LISTED ABOVE ARE APPROXIMATE AND ARE FURNISHED FOR INFORMATION ONLY. MISCELLANEOUS (UNLISTED) WIRE, CABLE, HARDWARE ETC. ARE REQUIRED TO PROVIDE FOR A FUNCTIONING TRAFFIC SIGNAL SYSTEM.

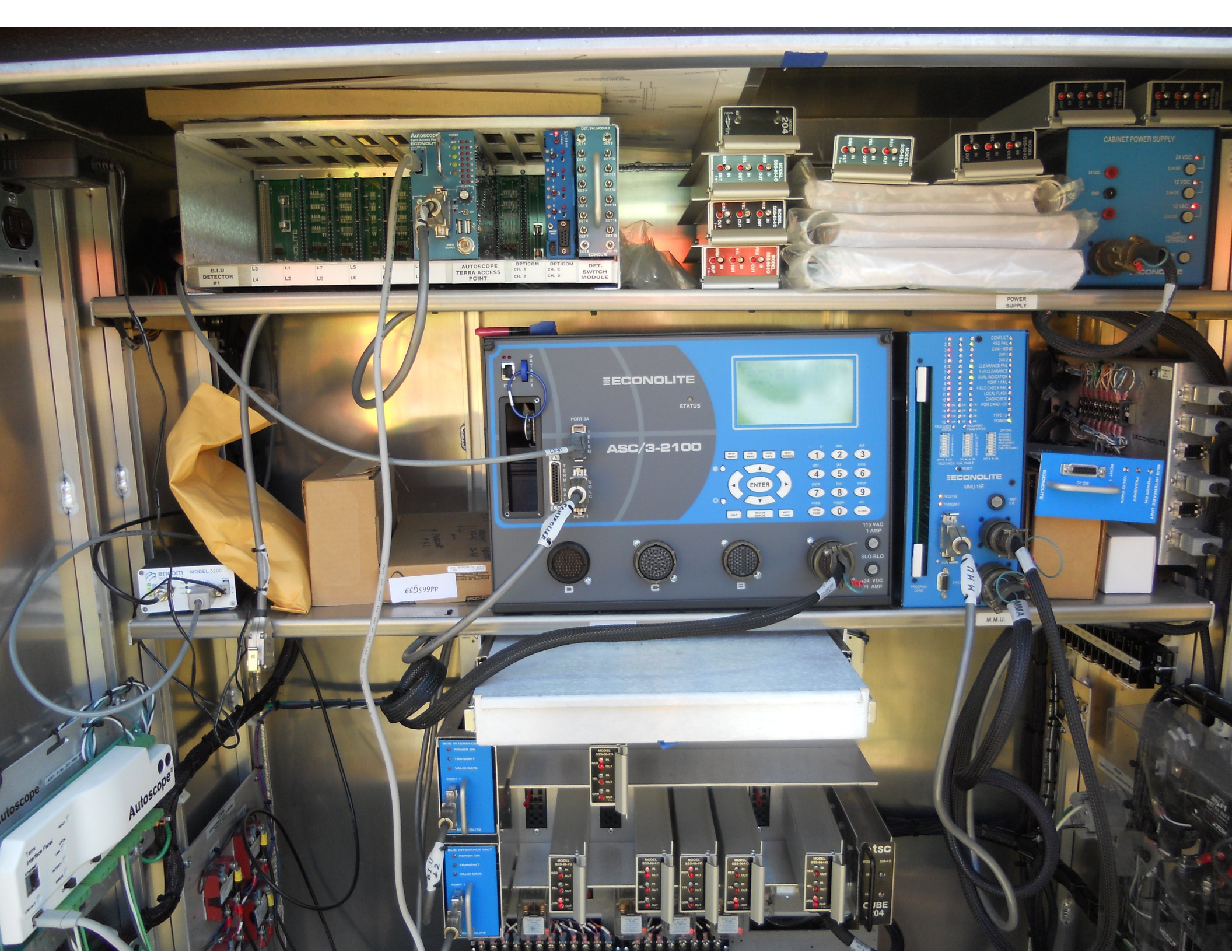
07-2946

FINAL PLAN

Chittenden County Transportation Authority
VT ROUTE 15 / ETHAN ALLEN AVE

SIGNAL LAYOUT

Lamoureux & D
Consulting Eng
14 Morse Drive, Essex,
VT 05732-4538



Autoscope Terra Access Point

DET. SW. MODULE

OPTICOM CH. A

OPTICOM CH. B

DET. SWITCH MODULE

Autoscope Terra Access Point

DET. SW. MODULE

OPTICOM CH. A

OPTICOM CH. B

DET. SWITCH MODULE

Autoscope Terra Access Point

DET. SW. MODULE

OPTICOM CH. A

OPTICOM CH. B

DET. SWITCH MODULE

MODEL 500-010

TEST IN

TEST OUT

TEST IN

TEST OUT

TEST IN

TEST OUT

TEST IN

TEST OUT

TEST IN

TEST OUT

MODEL 500-010

TEST IN

TEST OUT

TEST IN

TEST OUT

TEST IN

TEST OUT

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TEST OUT

TEST IN

TEST OUT

MODEL 500-010

TEST IN

TEST OUT

TEST IN

TEST OUT

TEST IN

TEST OUT

TEST IN

TEST OUT

TEST IN

TEST OUT

CABINET POWER SUPPLY

24 VDC

12 VDC

12 VDC

12 VDC

12 VDC

12 VDC

12 VDC

12 VDC

12 VDC

12 VDC

ECONOLITE

STATUS

ASC/3-2100

PORT 3A

115 VAC 1 AMP

SLO-BLO

4-8 VDC 1 AMP

ECONOLITE

MAU-1E

STATUS

TEST IN

TEST OUT

TEST IN

TEST OUT

TEST IN

TEST OUT

TEST IN

TEST OUT

TEST IN

TEST OUT

ECONOLITE

MAU-1E

STATUS

TEST IN

TEST OUT

TEST IN

TEST OUT

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TEST OUT

TEST IN

TEST OUT

Autoscope

Terra Access Point

TEST IN

TEST OUT

TEST IN

TEST OUT

TEST IN

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TEST IN

TEST OUT

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TEST OUT

MODEL 500-010

TEST IN

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MODEL 500-010

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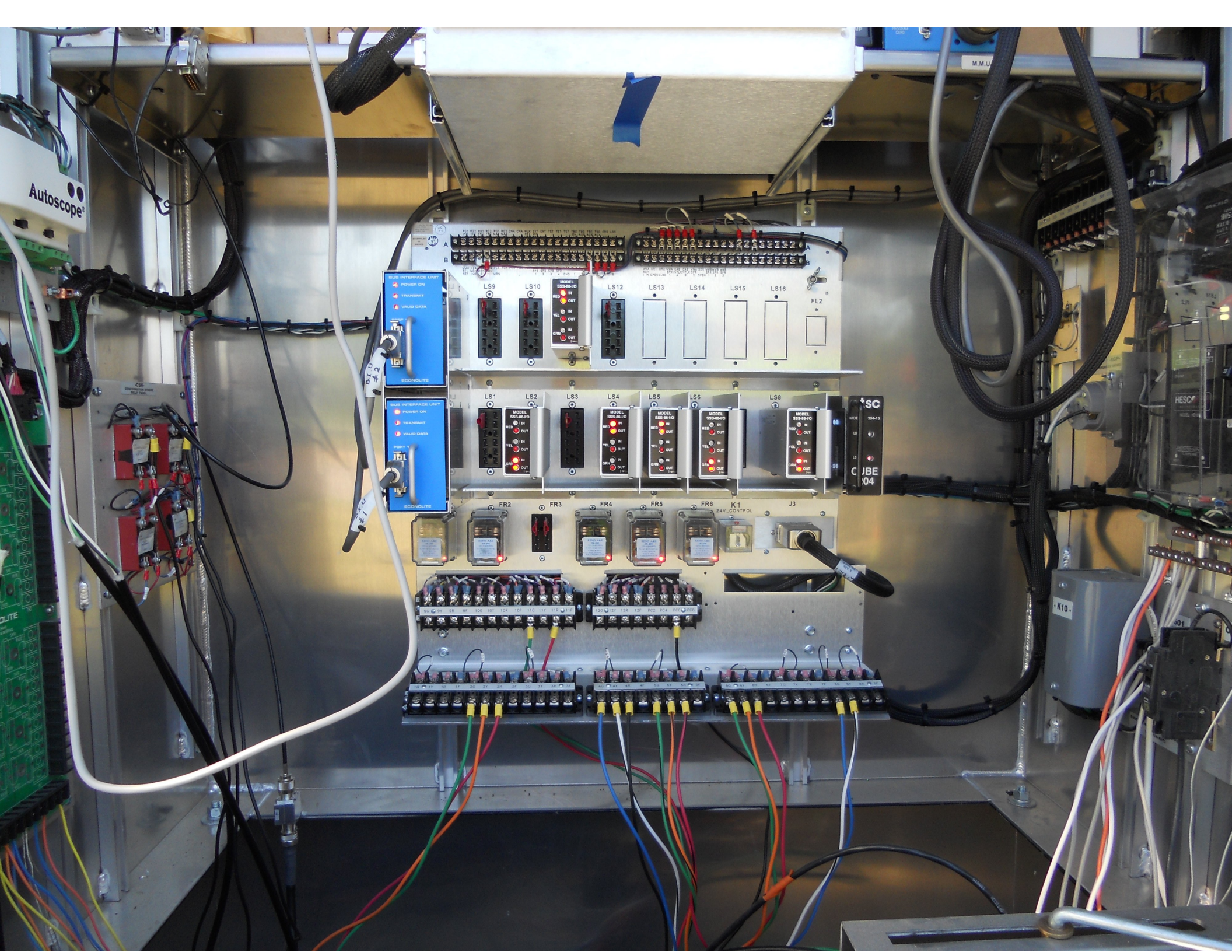
TEST OUT

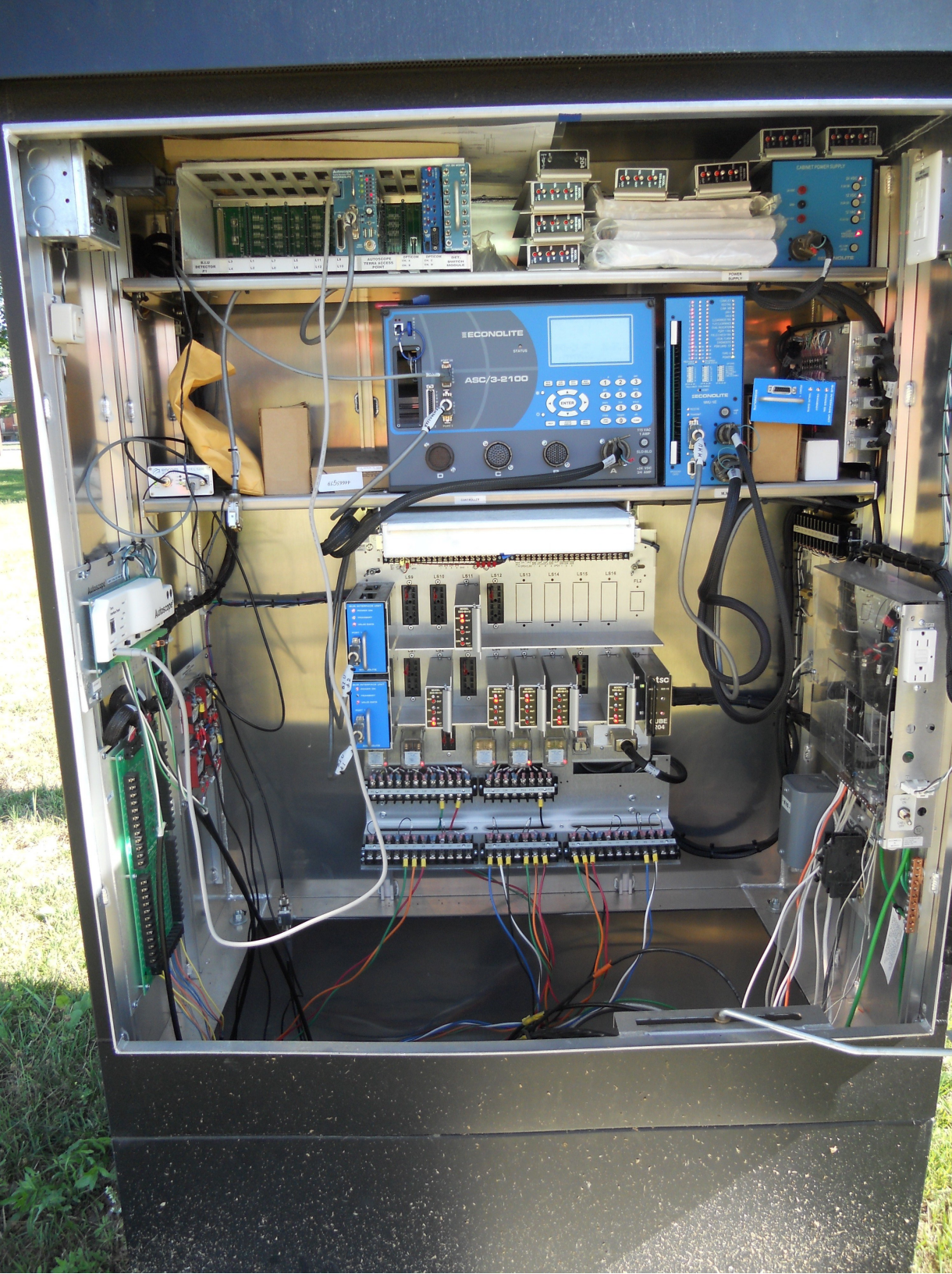
TEST IN

TEST OUT

TEST IN

TEST OUT



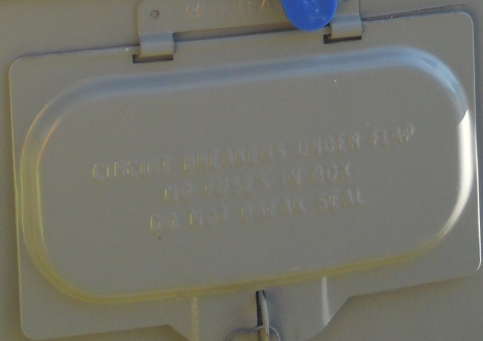


HAZARD / PELIGRO
HAZARD OF ELECTRICAL SHOCK OR BURN
SERVICE BY UTILITY AUTHORIZED PERSONNEL ONLY
DO NOT PAINT OVER OR REMOVE THIS LABEL
PELIGRO DE DESCARGA ELECTRICA O QUEMADURA
SERVICIO POR PERSONAS AUTORIZADAS DE LA COMPAÑIA
ELECTRICA PUEDEN MANTENERLO
NO PINTES ENCIMA NI REMUEVA ESTA ETIQUETA



CONTAINS FCC ID: G2C-WA284M SERIAL: *14 536 905
CONTAINS FCC ID: G2C-WA284M
GMP
E14536905
elster
TYPE R2SD
CL200, 120V, 3W, 60Hz FM 125 Wallbox Meter KH10 TA 30
LAW ID: 076-0007100001
ZFSWKAB000-05
S.A. 1-1101

INDIAN BANK
TYPE 30 ENCLOSURE



CIRCUIT BREAKERS UNDER FLAP
NO FUSES IN BOX
DO NOT BREAK SEAL

DANGER / PELIGRO
HAZARD OF ELECTRICAL SHOCK OR BURN
SERVICE BY UTILITY AUTHORIZED PERSONNEL ONLY
DO NOT PAINT OVER OR REMOVE THIS LABEL
PELIGRO DE DESCARGA ELECTRICA O QUEMADURA
SERVICIO POR PERSONAS AUTORIZADAS DE LA COMPAÑIA
ELECTRICA PUEDEN MANTENERLO
NO PINTES ENCIMA NI REMUEVA ESTA ETIQUETA

Autoscope®
Terra Access Point
ECONOLITE

POWER
MVP 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SELECT
VIDEO OUTPUT

ON 1-SEC 2-SEC 5-SEC 10-SEC 15-SEC 30-SEC 60-SEC 120-SEC 240-SEC 480-SEC 960-SEC 1920-SEC 3840-SEC 7680-SEC 15360-SEC 30720-SEC 61440-SEC 122880-SEC 245760-SEC 491520-SEC 983040-SEC 1966080-SEC 3932160-SEC 7864320-SEC 15728640-SEC 31457280-SEC 62914560-SEC 125829120-SEC 251658240-SEC 503316480-SEC 1006632960-SEC 2013265920-SEC 4026531840-SEC 8053063680-SEC 16106127360-SEC 32212254720-SEC 64424509440-SEC 128849018880-SEC 257698037760-SEC 515396075520-SEC 1030792151040-SEC 2061584302080-SEC 4123168604160-SEC 8246337208320-SEC 16492674416640-SEC 32985348833280-SEC 65970697666560-SEC 131941395333120-SEC 263882790666240-SEC 527765581332480-SEC 1055531162664960-SEC 2111062325329920-SEC 4222124650659840-SEC 8444249301319680-SEC 16888498602639360-SEC 33776997205278720-SEC 67553994410557440-SEC 135107988821114880-SEC 270215977642229760-SEC 540431955284459520-SEC 108086391056891840-SEC 216172782113783680-SEC 432345564227567360-SEC 864691128455134720-SEC 1729382256910269440-SEC 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ONLY

THRU
TRAFFIC
KEEP
RIGHT



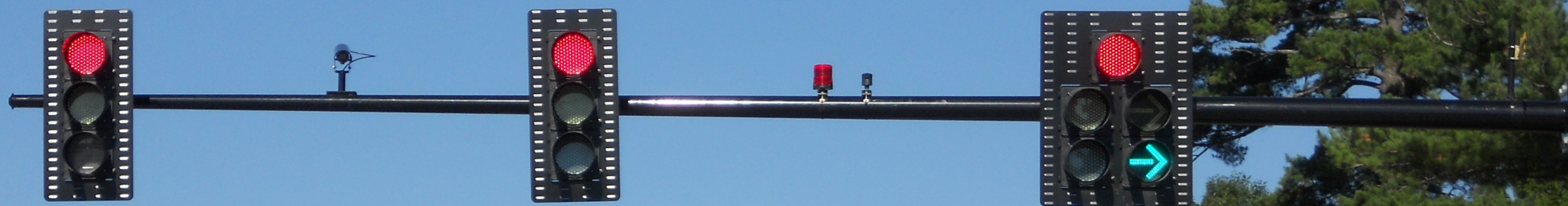


U.M.C.
POLE 3E-13.5W 32'8"
ARM 7E-8.5W 39'0"
55 K.B.
01/201









Ethan Allen A



Ethan Allen Ave





U.M.C.
POLE 3E-18.50 X 32'0"
ARM 3E-8.50 X 35'0"
/ 55 K.S.I.
01/2011

Ethan Allen Ave















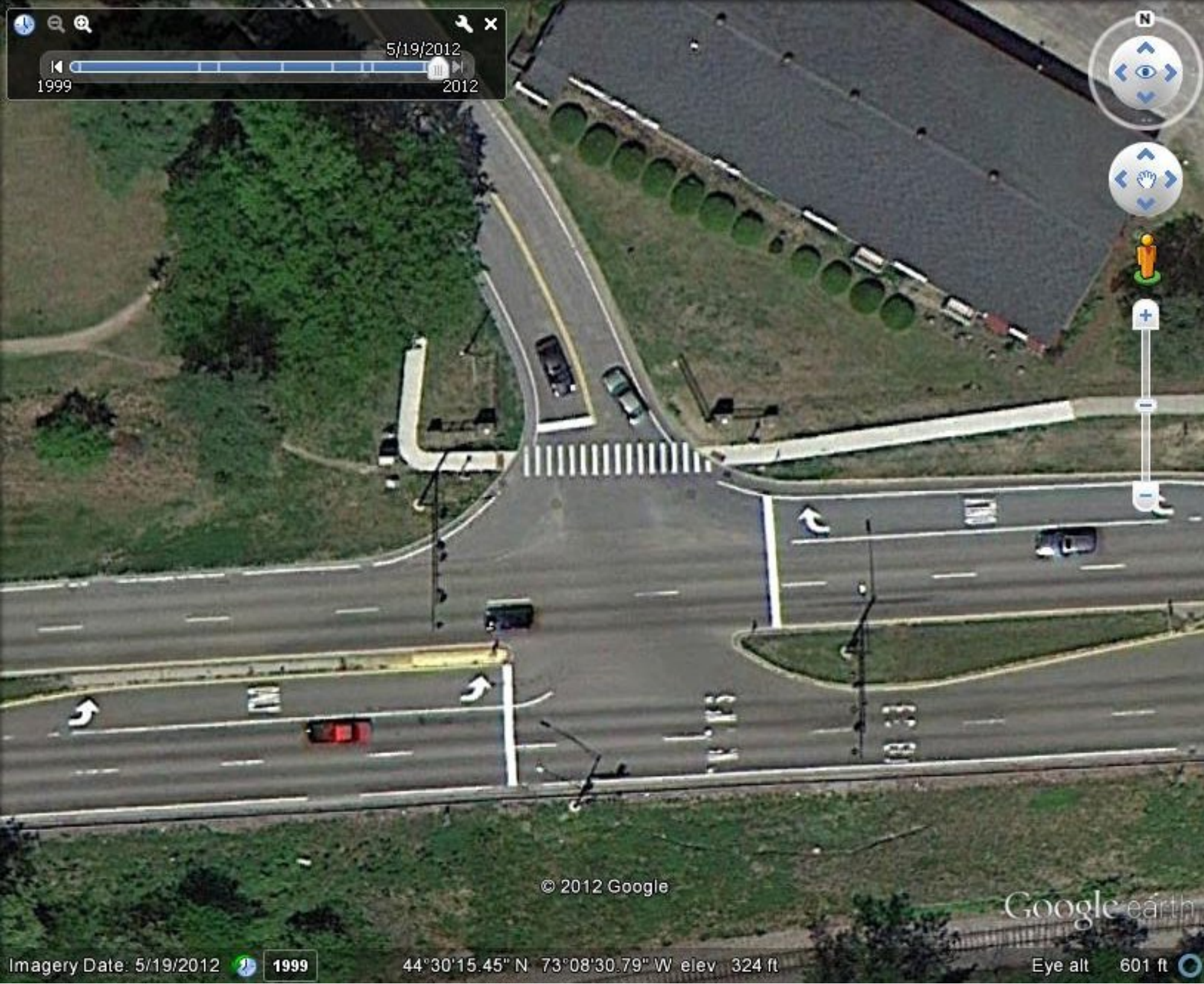








U.S.I.C.
11/25 X 32'0"
11/25 X 10'0"
U.S.I.
8/2011



5/19/2012

1999

2012

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Google earth

Imagery Date: 5/19/2012



1999

44°30'15.45" N 73°08'30.79" W elev 324 ft

Eye alt

601 ft



Date: 08/10/2012

Timing Data:

Phase	1	2	3	4	5	6	7	8	9
Phases in use		X		X	X	X		X	
Min Green	0	8	0	10	12	8	0	0	5
Walk	0	5	0	5	0	5	0	5	0
Ped Clr	0	7	0	7	0	7	0	7	0
Veh Ext	5	5	5	5	5	5	5	5	5
MAX 1	0	43	0	27	19	18	10	10	35
MAX 2	0	24	0	39	18	19	10	10	40
MAX 3	0	61	0	20	35	20	0	0	0
Yellow	3	4	3	4	4	4	3	3	3
All Red	2	2	2	2	2	2	2	2	1
Recall to Max	0	0	0	0	0	0	0	0	0

Coordination Patterns:

ACS3/Naztec

Cordinated Phases 2 & 6

Pattern 1

Cycle Length	82	Offset	90	COS	111			
Splits	Ph 1	0	Ph 2	60	Ph 3	0	Ph 4	40
	Ph 5	30	Ph 6	30	Ph 7	0	Ph 8	0
	Ph 9	0	Ph 10	0	Ph 11	0	Ph 12	0

Pattern 2(21)

Cycle Length	91	Offset	65	COS	121			
Splits	Ph 1	0	Ph 2	30	Ph 3	0	Ph 4	48
	Ph 5	24	Ph 6	28	Ph 7	0	Ph 8	0
	Ph 9	0	Ph 10	0	Ph 11	0	Ph 12	0

Pattern 3

Cycle Length	93	Offset	99	COS	131			
Splits	Ph 1	0	Ph 2	72	Ph 3	0	Ph 4	28
	Ph 5	44	Ph 6	28	Ph 7	0	Ph 8	0
	Ph 9	0	Ph 10	0	Ph 11	0	Ph 12	0

Pattern 4

Cycle Length	66	Offset	5	COS	141			
Splits	Ph 1	0	Ph 2	61	Ph 3	0	Ph 4	39
	Ph 5	50	Ph 6	50	Ph 7	0	Ph 8	0
	Ph 9	0	Ph 10	0	Ph 11	0	Ph 12	0

Action Plan

Action Plan	Pattern
1	1
2	2
3	3
4	254-FREE
5	4

Day Plan [1]

Event	Action Plan	Step Begins
1	2	0600
2	1	0900
3	3	1400
4	1	1800
5	5	2300
6	5	0000