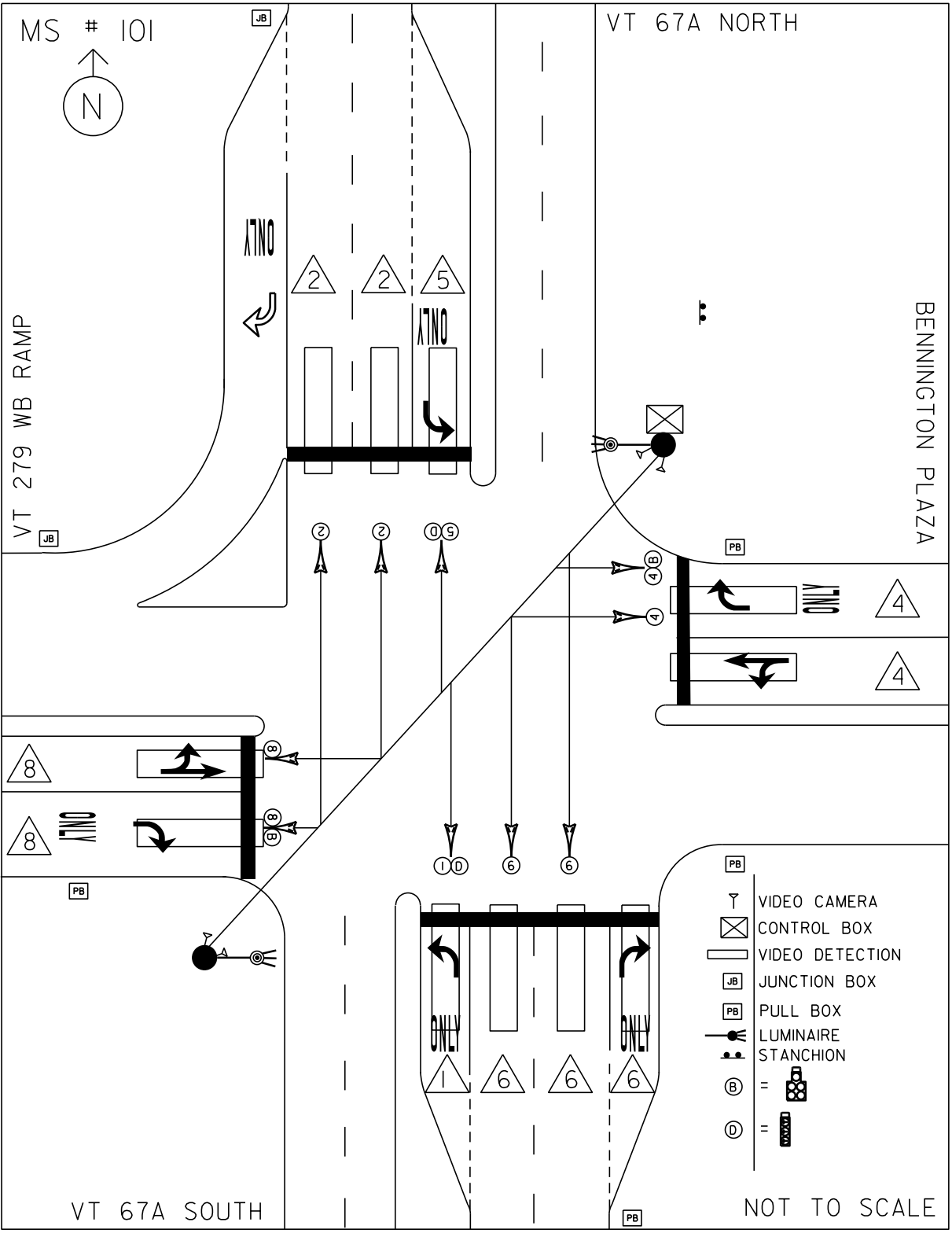
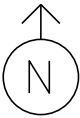




MS # 101

VT 67A NORTH

BENNINGTON PLAZA



ONLY



12'

12'

12'

LANE LINE 170'

ONLY



12'

12'

16'

20'

17'

STOP BAR 36'

STOP BAR 40'



ONLY

14'



LANE LINE 105'

12'

15'



STOP BAR 60'

LANE LINE 190'

18'

ONLY



STOP BAR 54'

22'

13'

12'



LANE LINE 190'

ONLY

12'

12'

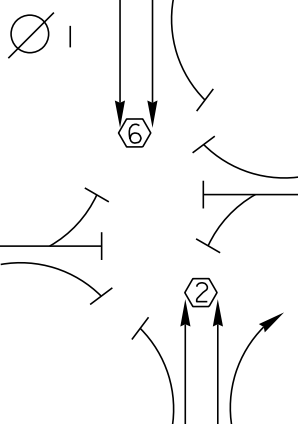
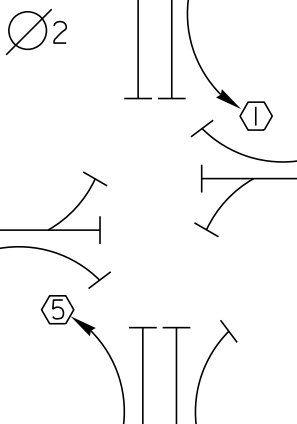
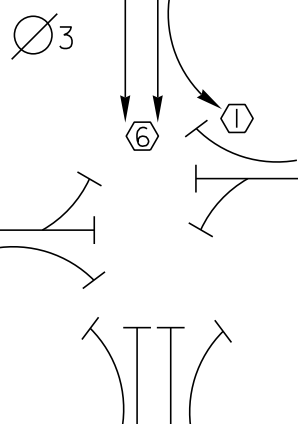
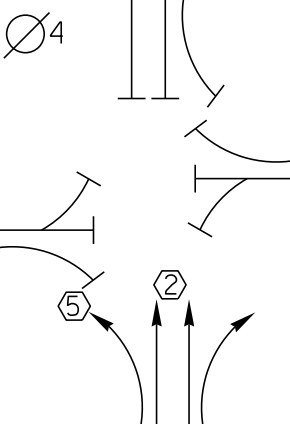
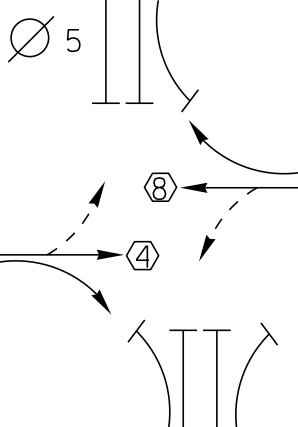
LANE LINE 150'



ONLY

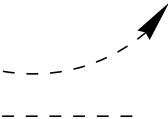
VT 67A SOUTH

NOT TO SCALE

DIAGRAM 	Ø 1 	Ø 2 	Ø 3 	Ø 4 
TIMING	G = Y =	G = Y =	G = Y =	G = Y =
DIAGRAM	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:
DIST. TRANS. OFFICE

447 21

NIGHT & WEEKENDS:

442 1030

INTERSECTION NO.

TURNER
10-15-02

CONTROLLER
OFF

SIGNALS
FLASH

MAIN
ON
OFF

STOP TIME
ON
OFF

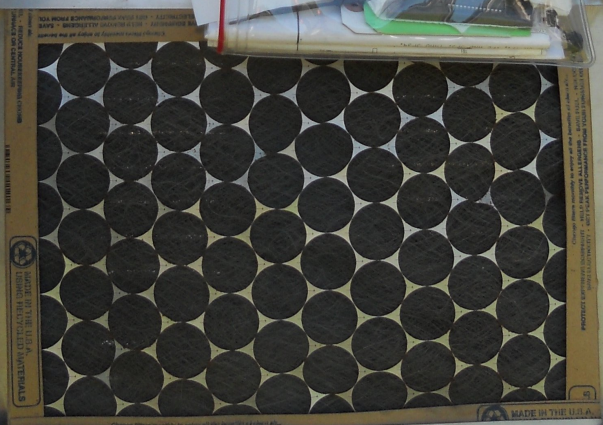
TEST SETS
A1/A 21 22 23 24 25 26
B1/B 31 32 33 34 35 36

WARNING
DO NOT OPERATE
CABINET WITHOUT
CONFLICT MONITOR UNIT

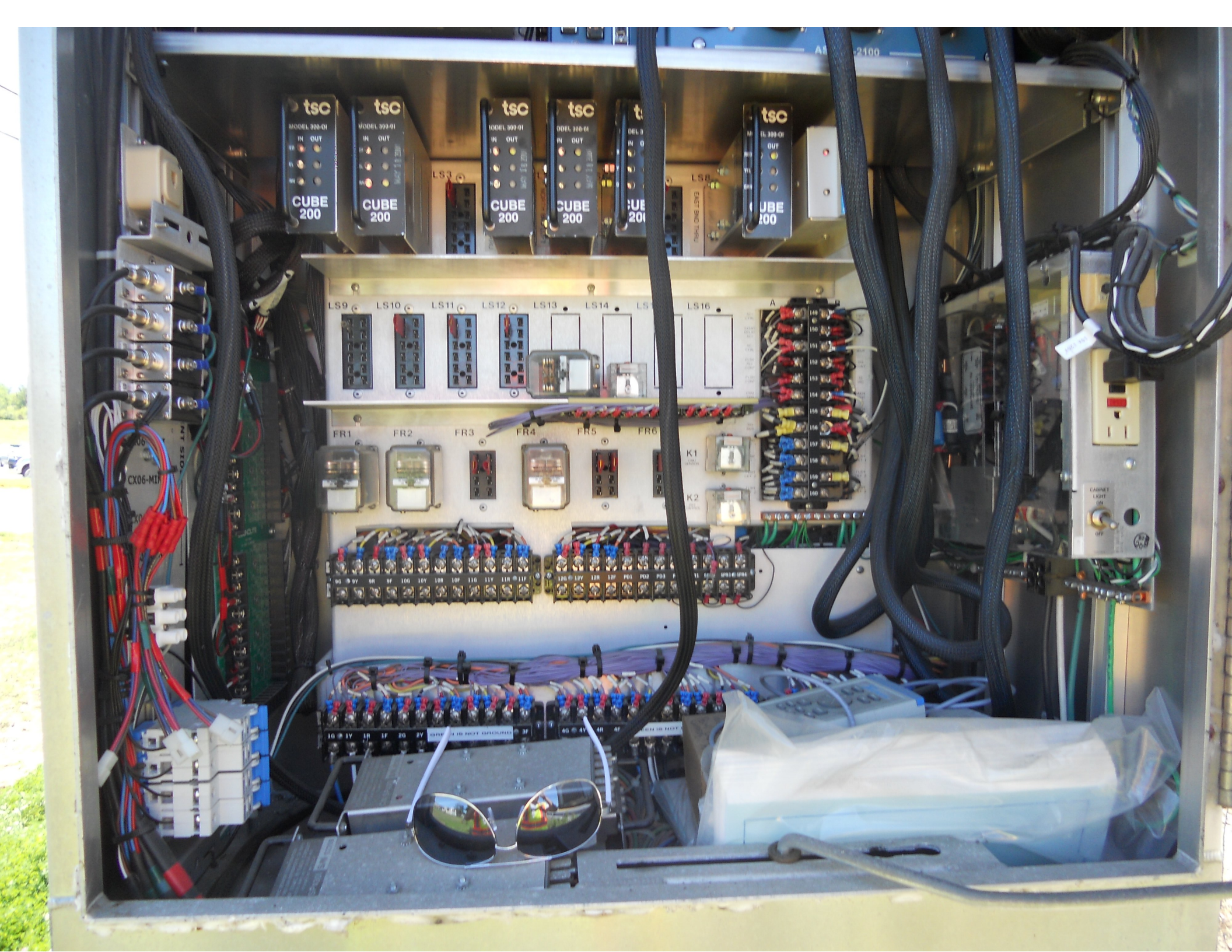
DANGER
5 VOLTS A.C.

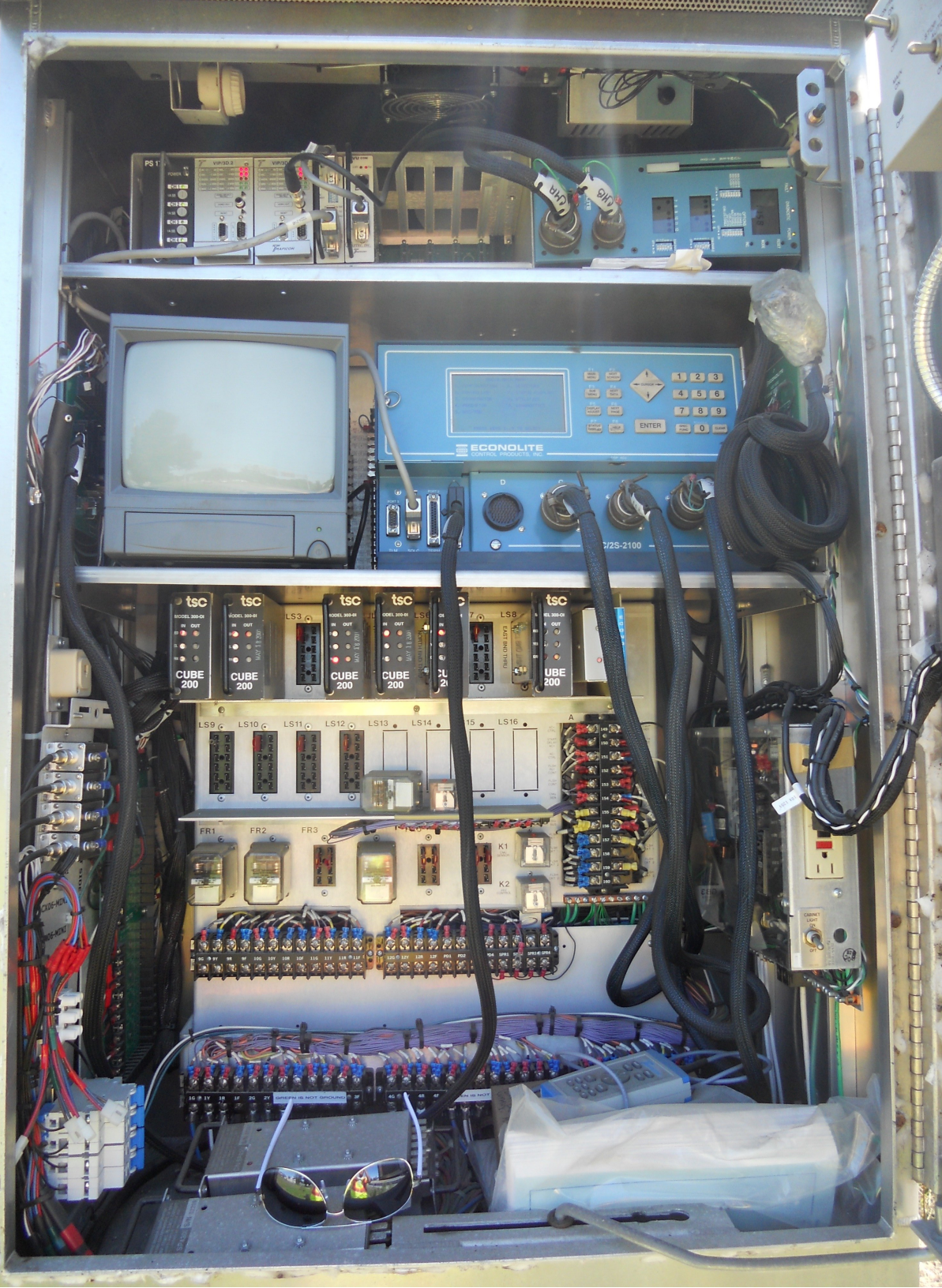
Handwritten notes and diagrams on a clipboard, including a schematic diagram of a circuit with components labeled A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.

- LOOPS
- 1 = 1 ANGE
 - 2A = 1 GREEN
 - 4A = 2 WHITE
 - 4B = 1 WHITE
 - 4B = 2 WHITE
 - 5 = 4 WHITE
 - 6A = 1 BLACK
 - 8A = 1 RED
 - 8B = 1 YELLOW
 - 8B = 2 ORANGE













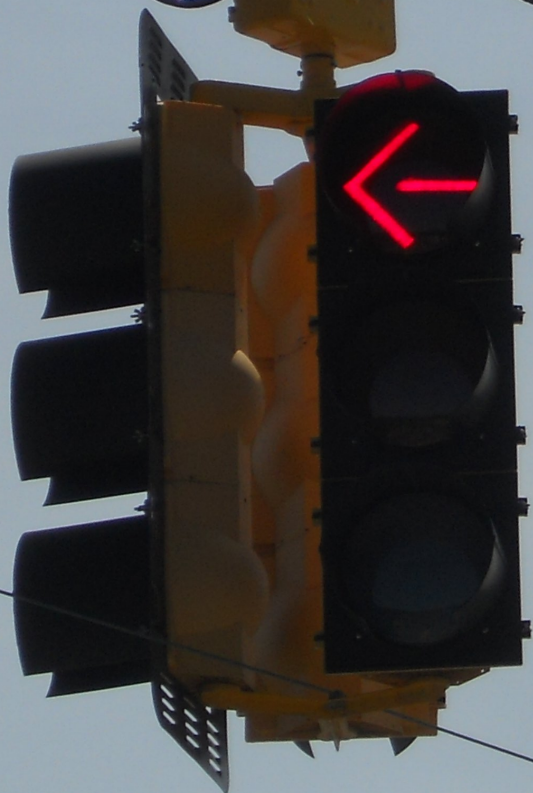


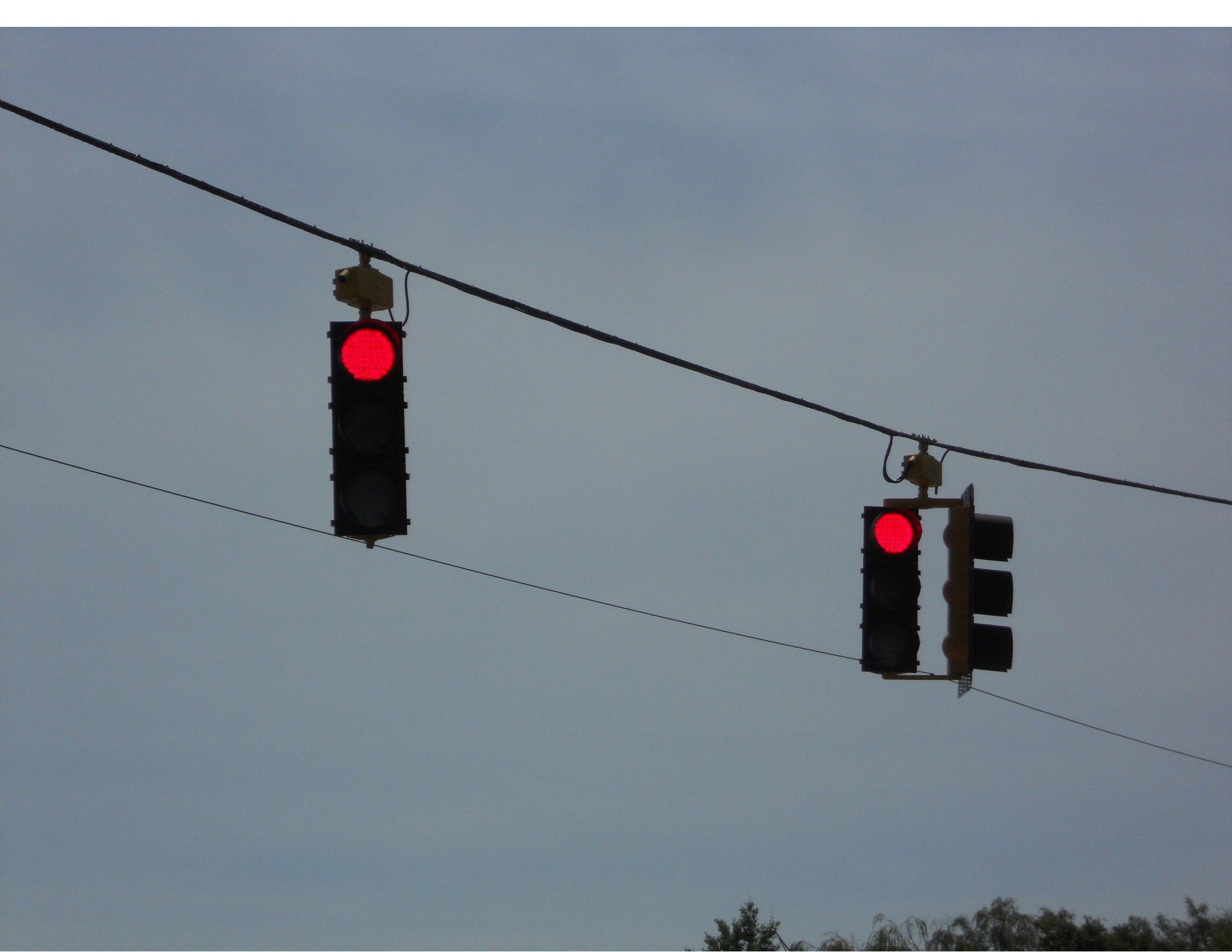


TO	TO	TO
HISTORIC	7	NY
VERMONT	7	7
7A	EAST	WEST
SOUTH	VERMONT	VERMONT
VERMONT	279	279
67A	279	279
↑	↑	↗













TO
HISTORIC
VERMONT
7A

NORTH
VERMONT
67A

SOUTH
VERMONT
67A













3E-23.5X38'

55KSI

2001

UNION METAL CORPORATION

7



TO
NY
7
WEST NORTH
VERMONT VERMONT
279 67A
← →

SUBARU



SUBARU

Pre-Owned Vehicles

ONLY ↑ ↑ ONLY



SUBARU

Pre-Owned Vehicles





BENNINGTON PLAZA PVT









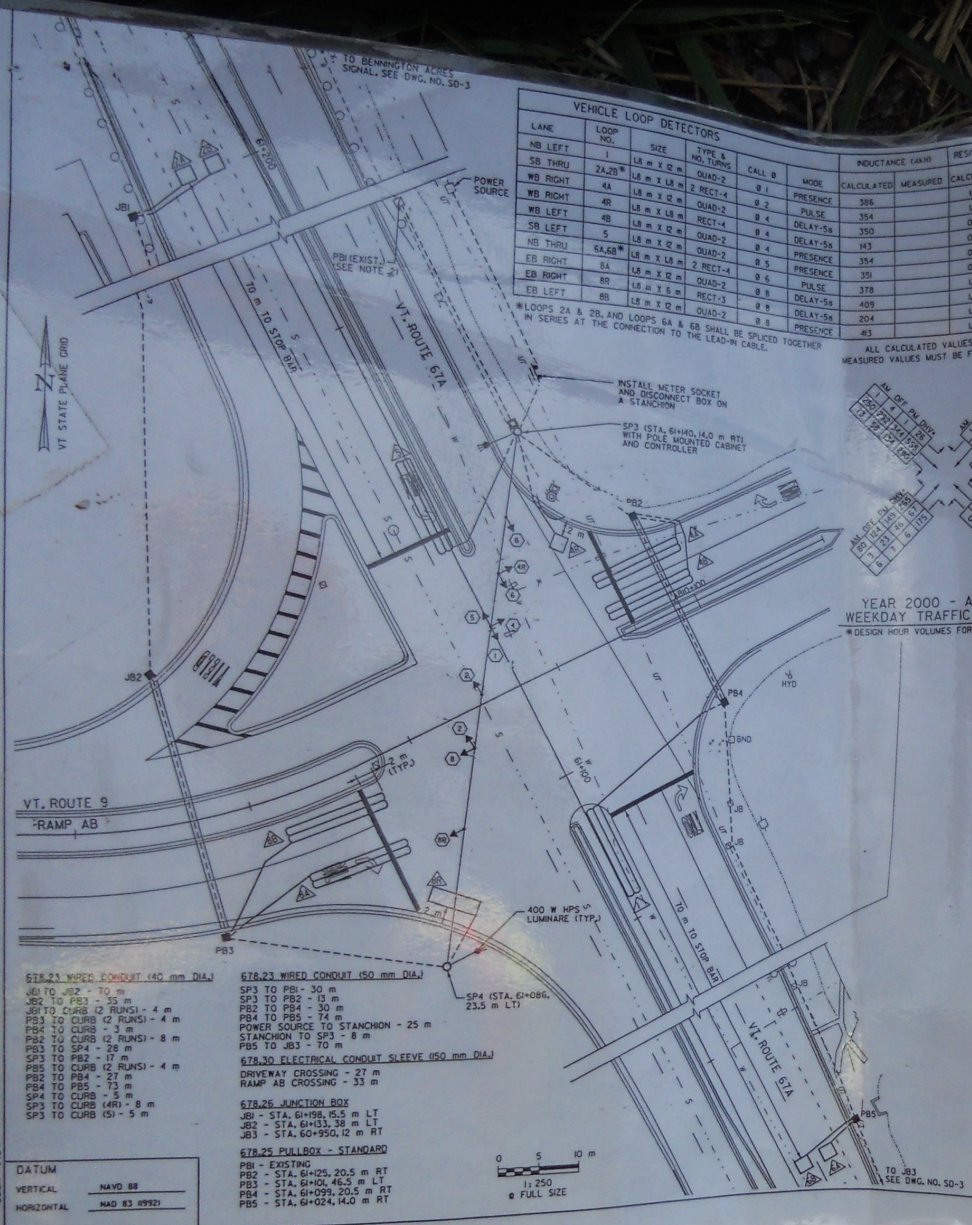


JE-23.5X38

55KSI

2001

UNION METAL CORPORATION

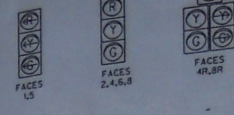


VEHICLE LOOP DETECTORS

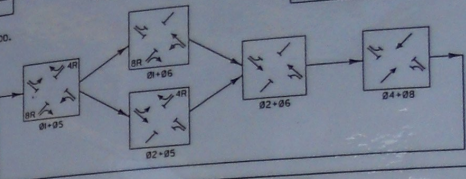
LANE	LOOP NO.	SIZE	TYPE	NO. TURNS	CALL #	MODE	INDUCTANCE (uH)	RESISTANCE R @ 25°C	LEAKAGE TO GROUND
NB LEFT	1	18 m x 0.2 m	QUAD-2	0.1	PRES	PLUSE	366	0.72	0.72
SB THRU	2A, 2B	18 m x 0.2 m	2 RECT-4	0.2	PRES	PLUSE	354	0.72	0.72
WB RIGHT	4A	18 m x 0.2 m	2 RECT-4	0.2	PRES	PLUSE	350	0.72	0.72
WB LEFT	4B	18 m x 0.2 m	QUAD-2	0.2	DELAY-54	PLUSE	354	0.72	0.72
SB LEFT	4B	18 m x 0.2 m	QUAD-2	0.2	DELAY-54	PLUSE	354	0.72	0.72
NB THRU	5	18 m x 0.2 m	QUAD-2	0.2	PRES	PLUSE	354	0.72	0.72
EB RIGHT	6A, 6B	18 m x 0.2 m	2 RECT-4	0.2	PRES	PLUSE	354	0.72	0.72
EB LEFT	8A	18 m x 0.2 m	QUAD-2	0.2	DELAY-54	PLUSE	378	0.72	0.72
EB LEFT	8B	18 m x 0.2 m	QUAD-2	0.2	DELAY-54	PLUSE	409	0.72	0.72
					PRES	PLUSE	204	0.72	0.72
					PRES	PLUSE	403	0.72	0.72

ALL CALCULATED VALUES ARE AT THE CONTROLLER.
MEASURED VALUES MUST BE FILLED IN PRIOR TO TEST PERIOD.

SIGNAL FACE ARRANGEMENT
300mm LENSES



PHASING DIAGRAM



LEGEND

EXISTING	NEW	DESCRIPTION
UTILITY POLE	UTILITY POLE	
LUMINAIRE	LUMINAIRE	
LIGHT OR WOOD POLE	LIGHT OR WOOD POLE	
STRAIN POLE	STRAIN POLE	
CONTROLLER CABINET	CONTROLLER CABINET	
PULLBOX/JUNCTION BOX	PULLBOX/JUNCTION BOX	
SIGNAL HEAD	SIGNAL HEAD	
CONDUIT	CONDUIT	
VEHICLE LOOPS	VEHICLE LOOPS	
PEDESTAL POST	PEDESTAL POST	
OVERHEAD TRAFFIC SIGN	OVERHEAD TRAFFIC SIGN	
STATION	STATION	

CONTROLLER TIMING CHART

LOCAL PROGRAMMING	PHASE							
	1	2	3	4	5	6	7	8
MINIMUM GREEN	8	17		2.0	2.0	5.0		2.0
EXTENSION	2.0	5.0		4.0	4.0	4.0		4.0
YELLOW CLEARANCE	4.0	4.0		2.0	2.0	2.0		2.0
ALL RED CLEARANCE	2.0	2.0		29	14	29		29
MAX. GREEN 1	14	29		-	-	-		-
WALK	-	-		-	-	-		-
FLASHING DON'T WALK	-	-		OFF	OFF	MINIMUM		OFF
RECALL	OFF	MINIMUM		OFF	OFF	LOCK		NON-LOCK
MEMORY	LOCK	LOCK		NON-LOCK	LOCK	LOCK		NON-LOCK

COORDINATION DATA CHART

CYCLE	SPLIT								OFFSET
	1	2	3	4	5	6	7	8	
CYCLE 1 - 90 SEC. 6:00 AM - 9:00 AM	20s/22%	35s/39%		35s/39%	20s/22%	35s/39%		35s/39%	10s/8%
CYCLE 2 - 90 SEC. 9:00 AM - 10:00 AM	20s/22%	35s/39%		35s/39%	20s/22%	35s/39%		35s/39%	8s/9%
FREE OPERATION 10:00 AM - 10:00 AM									
FLASHING MODE 10:00 AM - 6:00 AM									

TABLE OF CHANGE SEQUENCE

FACE	01+05		02+05		02+06		04+08	
	01+05	02+05	02+05	02+06	02+06	04+08	04+08	04+08
1	R	R	R	R	R	R	R	R
2	R	R	R	R	R	R	R	R
3	R	R	R	R	R	R	R	R
4	R	R	R	R	R	R	R	R
5	R	R	R	R	R	R	R	R
6	R	R	R	R	R	R	R	R
7	R	R	R	R	R	R	R	R
8	R	R	R	R	R	R	R	R
9	R	R	R	R	R	R	R	R
10	R	R	R	R	R	R	R	R
11	R	R	R	R	R	R	R	R
12	R	R	R	R	R	R	R	R
13	R	R	R	R	R	R	R	R
14	R	R	R	R	R	R	R	R
15	R	R	R	R	R	R	R	R
16	R	R	R	R	R	R	R	R
17	R	R	R	R	R	R	R	R
18	R	R	R	R	R	R	R	R
19	R	R	R	R	R	R	R	R
20	R	R	R	R	R	R	R	R
21	R	R	R	R	R	R	R	R
22	R	R	R	R	R	R	R	R
23	R	R	R	R	R	R	R	R
24	R	R	R	R	R	R	R	R
25	R	R	R	R	R	R	R	R
26	R	R	R	R	R	R	R	R
27	R	R	R	R	R	R	R	R
28	R	R	R	R	R	R	R	R
29	R	R	R	R	R	R	R	R
30	R	R	R	R	R	R	R	R
31	R	R	R	R	R	R	R	R
32	R	R	R	R	R	R	R	R
33	R	R	R	R	R	R	R	R
34	R	R	R	R	R	R	R	R
35	R	R	R	R	R	R	R	R
36	R	R	R	R	R	R	R	R
37	R	R	R	R	R	R	R	R
38	R	R	R	R	R	R	R	R
39	R	R	R	R	R	R	R	R
40	R	R	R	R	R	R	R	R
41	R	R	R	R	R	R	R	R
42	R	R	R	R	R	R	R	R
43	R	R	R	R	R	R	R	R
44	R	R	R	R	R	R	R	R
45	R	R	R	R	R	R	R	R
46	R	R	R	R	R	R	R	R
47	R	R	R	R	R	R	R	R
48	R	R	R	R	R	R	R	R
49	R	R	R	R	R	R	R	R
50	R	R	R	R	R	R	R	R
51	R	R	R	R	R	R	R	R
52	R	R	R	R	R	R	R	R
53	R	R	R	R	R	R	R	R
54	R	R	R	R	R	R	R	R
55	R	R	R	R	R	R	R	R
56	R	R	R	R	R	R	R	R
57	R	R	R	R	R	R	R	R
58	R	R	R	R	R	R	R	R
59	R	R	R	R	R	R	R	R
60	R	R	R	R	R	R	R	R
61	R	R	R	R	R	R	R	R
62	R	R	R	R	R	R	R	R
63	R	R	R	R	R	R	R	R
64	R	R	R	R	R	R	R	R
65	R	R	R	R	R	R	R	R
66	R	R	R	R	R	R	R	R
67	R	R	R	R	R	R	R	R
68	R	R	R	R	R	R	R	R
69	R	R	R	R	R	R	R	R
70	R	R	R	R	R	R	R	R
71	R	R	R	R	R	R	R	R
72	R	R	R	R	R	R	R	R
73	R	R	R	R	R	R	R	R
74	R	R	R	R	R	R	R	R
75	R	R	R	R	R	R	R	R
76	R	R	R	R	R	R	R	R
77	R	R	R	R	R	R	R	R
78	R	R	R	R	R	R	R	R
79	R	R	R	R	R	R	R	R
80	R	R	R	R	R	R	R	R
81	R	R	R	R	R	R	R	R
82	R	R	R	R	R	R	R	R
83	R	R	R	R	R	R	R	R
84	R	R	R	R	R	R	R	R
85	R	R	R	R	R	R	R	R
86	R	R	R	R	R	R	R	R
87	R	R	R	R	R	R	R	R
88	R	R	R	R	R	R	R	R
89	R	R	R	R	R	R	R	R
90	R	R	R	R	R	R	R	R
91	R	R	R	R	R	R	R	R
92	R	R	R	R	R	R	R	R
93	R	R	R	R	R	R	R	R
94	R	R	R	R	R	R	R	R
95	R	R	R	R	R	R	R	R
96	R	R	R	R	R	R	R	R
97	R	R	R	R	R	R	R	R
98	R	R	R	R	R	R	R	R
99	R	R	R	R	R	R	R	R
100	R	R	R	R	R	R	R	R

NOTES

- OFFSETS ARE REFERENCED TO BEGINNING OF VT ROUTE 67A GREEN (02+05).
- THE EXISTING INTERCONNECT CABLE SHALL BE DISCONNECTED FROM THE EXISTING CONTROLLER AND PULLED BACK TO THE CONTROLLER TO THE PROPOSED CONTROLLER ON SP3. THIS WORK SHALL BE PAID FOR AS PART OF ITEM #7423.
- DIMENSIONS ARE MEASURED TO FACE OF CURB UNLESS SPECIFIED OTHERWISE.

TRAFFIC SIGNAL PLAN

SURVEYED BY: C.H.A. & V.S.E. DATE: 12/93
 DESIGNED BY: M.R.N. DATE: 2/00
 DRAWN BY: S.H.D. DATE: 2/00
 CHECKED BY: T.P.K. DATE: 9/00

DESIGN FILE NO.: TSD-AB-DCN

PROJ. NAME: BENNINGTON - HOOSICK
 D.P.A. 0446 G/4
 PROJ. NO.: P.J.N. 1306.60
 DWG. NO. SD-2

ANCE (AAH)		RESISTANCE $\Omega @ 25^{\circ}\text{C}$		(M Ω)
ED	MEASURED	CALCULATED	MEASURED	LEAKAGE TO GROUND
		1.19		
		1.31		
		0.72		
		0.22		
		0.77		
		0.73		
		1.63		
		1.48		
		1.00		
		1.54		

CALCULATED VALUES ARE AT THE CONTROLLER.
VALUES MUST BE FILLED IN PRIOR TO TEST PERIOD.

SIGNAL FACE ARRANGEMENT 300mm LENSES



FACES
1,5



FACES
2,4,6,8



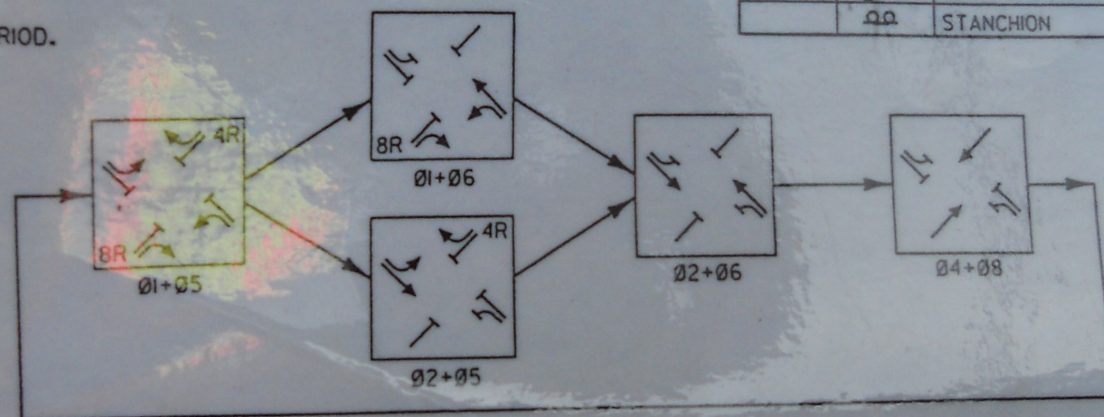
FACES
4R,8R

Metric

LEGEND

EXISTING	NEW	DESCRIPTION
		UTILITY POLE
		LUMINAIRE
		LIGHT OR WOOD POLE
		STRAIN POLE
		CONTROLLER CABINET
		PULLBOX/JUNCTION BOX
		SIGNAL HEAD
		CONDUIT
		VEHICLE LOOPS
		PEDESTAL POST
		OVERHEAD TRAFFIC SIGN
		STANCHION

PHASING DIAGRAM



CONTROLLER TIMING CHART

LOCAL PROGRAMMING	PHASE							
	1	2	3	4	5	6	7	8
MINIMUM GREEN	8	17		12	8	17		12
EXTENSION	2.0	5.0		2.0	2.0	5.0		2.0
YELLOW CLEARANCE	4.0	4.0		4.0	4.0	4.0		4.0
ALL RED CLEARANCE	2.0	2.0		2.0	2.0	2.0		2.0
	14	29		29	14	29		29

MES

EAR 2020

[illegible]

Coordination Patterns

Pattern 1

Cycle Length . . . 90 COS 111
Offset 10
Vehicle Permissive . . [1] 0 [2] 0
Vehicle Perm 2 Displacement 0 Phase Reservice. . NO
Splits: Phase 1- 20 2- 35 3- 0 4- 35
Phase 5- 20 6- 35 7- 0 8- 35
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
Ped Recall
Veh Omit
Alt Sequence . . A: . B: . C: . D: . E: . F: .

Pattern 2

Cycle Length . . . 90 COS 211
Offset 8
Vehicle Permissive . . [1] 0 [2] 0
Vehicle Perm 2 Displacement 0 Phase Reservice. . NO
Splits: Phase 1- 20 2- 35 3- 0 4- 35
Phase 5- 20 6- 35 7- 0 8- 35
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
Ped Recall
Veh Omit
Alt Sequence . . A: . B: . C: . D: . E: . F: .

NIC Program Steps

Step	Program	Step Begins	Pattern	Override
1	1	0600	1	NO
2	1	0900	2	NO
3	1	2200	0	NO

TOD Program Steps

Step 1 Program 1 Step Begins 0000

Flash.	X	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 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	.	.	.	.	.	.