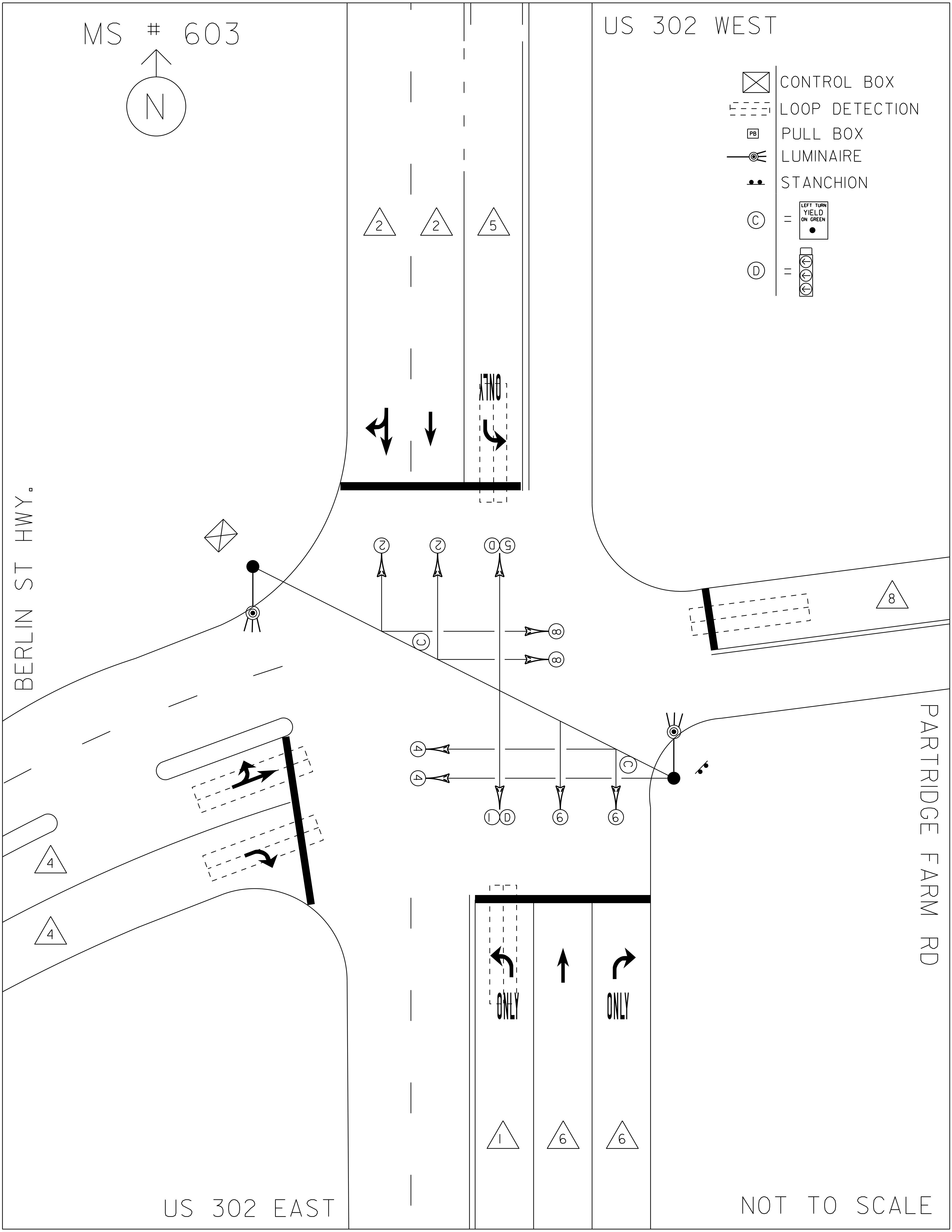

MS # 603
N
US 302 WEST
CONTROL BOX
LOOP DETECTION
PULL BOX
PB
LUMINAIRE
STANCHION
C =
LEFT TURN YIELD ON GREEN
D =
BERLIN ST HWY.
PARTRIDGE FARM RD
ONLY
ONLY
ONLY
US 302 EAST
NOT TO SCALE

MS # 603

N

US 302 WEST

12′ 12′ 12′ 14′

LANE LINE 100′

ONLY

STOP BAR 36′

16′

STOP BAR 30′

BERLIN ST HWY.

12′

12′

STOP BAR 50′

LANE LINE 150′

16′

14′

STOP BAR 36′

ONLY

ONLY

LANE LINE 110′

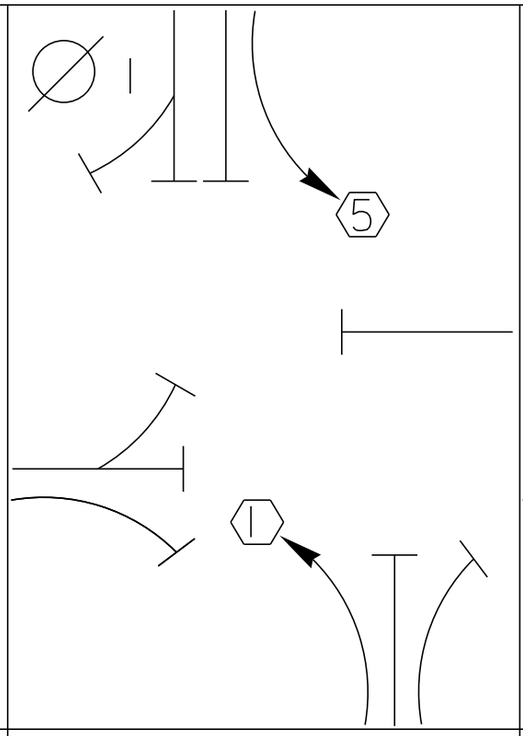
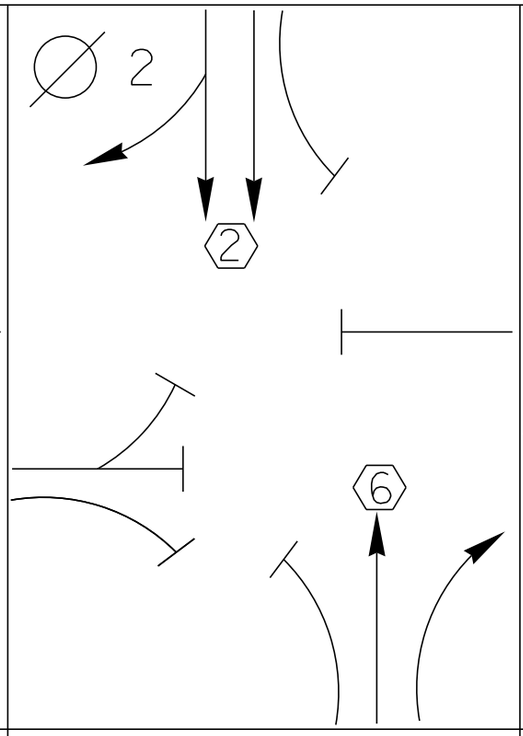
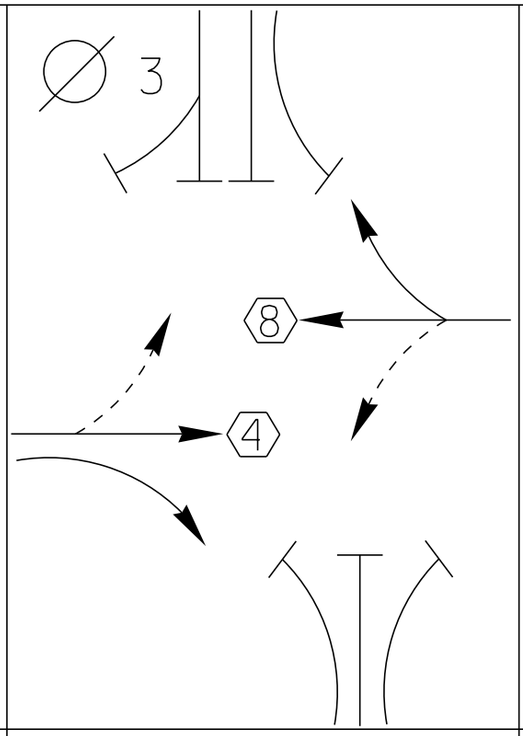
LANE LINE 440′

PARTRIDGE FARM RD

US 302 EAST 12′ 12′ 12′ 12′ 12′

NOT TO SCALE

INTERSECTION: US 302 & BERLIN ST HWY (VTRANS) MS #603

DIAGRAM N	∅ 1	∅ 2	∅ 3	∅ 4
				
TIMING	G = Y =	G = Y =	G = Y =	G = Y =
DIAGRAM	∅ 5	∅ 6	∅ 7	∅ 8
TIMING	G = Y =	G = Y =	G = Y =	G = Y =

PROTECTED TURNS

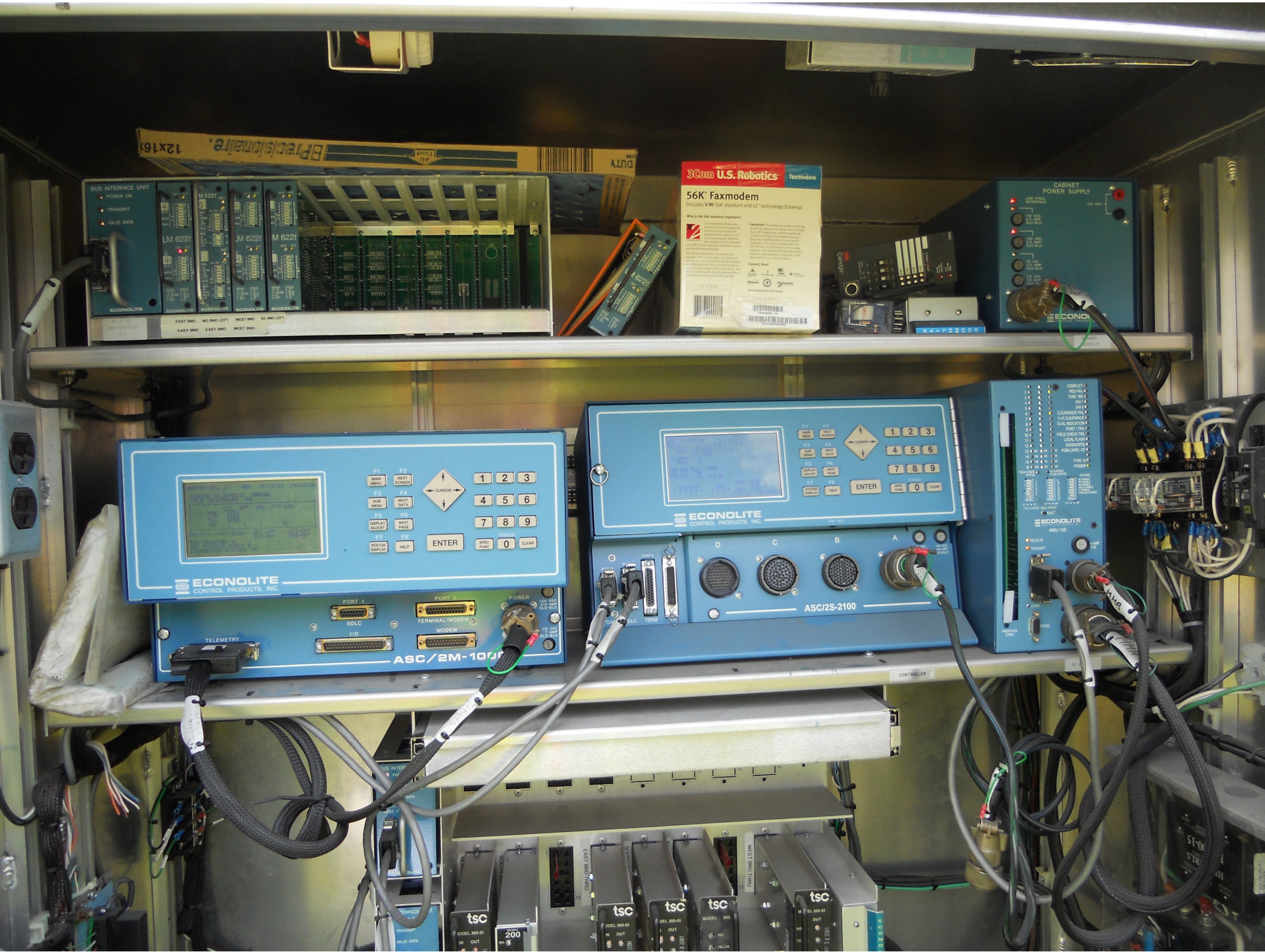
PERMITTED TURNS

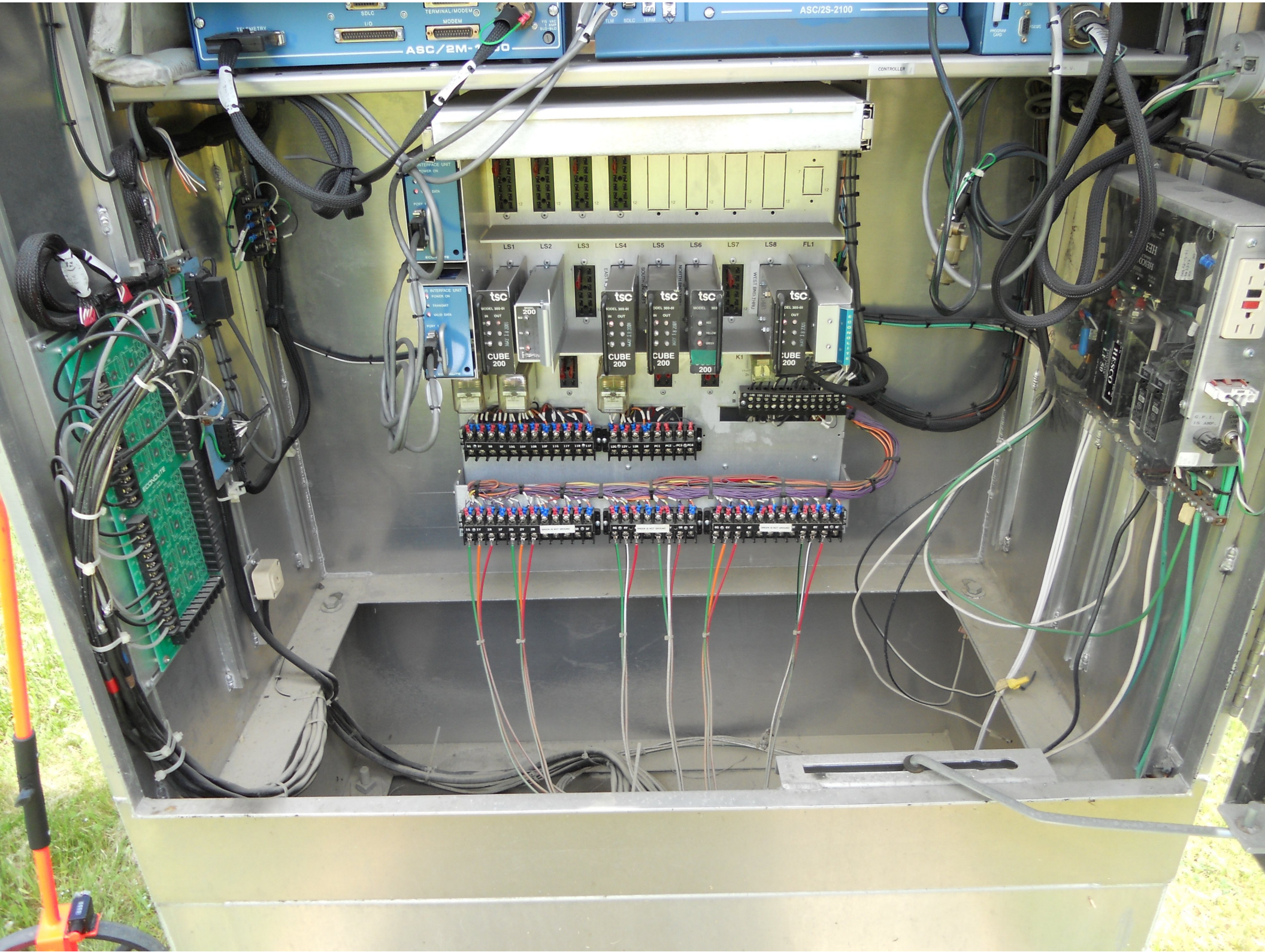
PEDESTRIAN

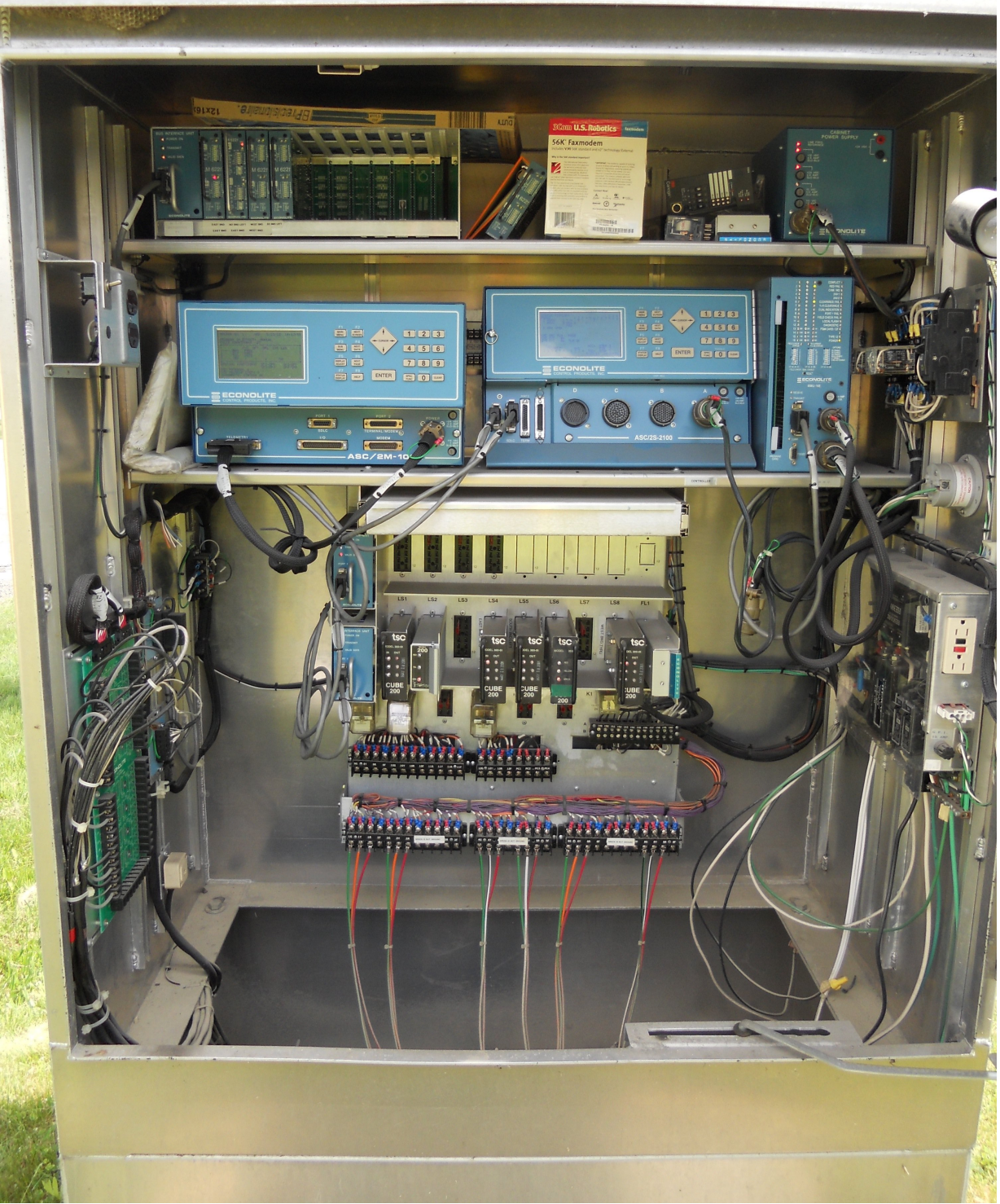
CYCLE LENGTH, C= _____ S


DANGER
115 VOLTS A.C.
WARNING
DO NOT OPERATE
CABINET WITHOUT
CMU / MMU
Turned On
8-21-01
CONTROLLER
ON
OFF
SIGNALS
AUTO
FLASH
MAIN
ON
OFF
STOP TIME
AUTO
OFF
ON
Loops
Brown - ϕ1 NBLT
Red - ϕ4 EB
Black - ϕ5 SBLT
Blue - ϕ8 - WB


2005 AVERAGE WEEKDAY TRAFFIC
** DHV – 2009 DESIGN HOUR VOLUME/% TRUCKS
MAG 1992
EXISTING R.O.W.
Partridge Road
STORMWATER DRAINAGE LINE
OVERHEAD UTILITY LINE
SEWER LINE
POWER FEED (AERIAL)
STANCHION POLE WITH 1 METER AND DISCONNECT FOR STREET LIGHTING AND 1 METER AND DISCONNECT FOR SIGNAL SYSTEM.
6" CONDUIT SLEEVE
RELOCATED POLE (BY OTHERS)
POLE #2
P.T. 91 + 86.5
P.C. 88 + 74.00
INSTALL OVERHEAD TRAFFIC SIGNAL INTERCONNECT CABLE FROM THE ROUTE 302/PARTRIDGE RD/BERLIN STATE HIGHWAY INTERSECTION TO THE AMES DRIVE INTERSECTION. REFER TO THE SIGNING AND STRIPING PLANS FOR THE CONTINUATION OF THIS CABLE THROUGH AREAS NOT COVERED BY TRAFFIC PLANS.
FRIENDLY RESTAURANT, FORMERLY
BEL AIRS FAMILY RESTAURANT
FORMERLY LUMS RESTAURANT
SEARS
TRAFFIC SIGNAL INTERCONNECT CABLE
U.S. Route 302
REMOVE EXISTING SIGNAL SYSTEM (VAOT OWNED)
INSTALL NEW SIGNAL SYSTEM (ALL EQUIPMENT) AS SHOWN
INSTALL GROUND MOUNTED CONTROLLER CABINET NEAR POLE #1
CONSTRUCT CONCRETE PAD
POLE #1
INSTALL UNDERGROUND TRAFFIC SIGNAL INTERCONNECT CABLE FROM CONTROLLER TO RELOCATED UTILITY POLE
GUY WIRES
LIMITED ACCESS
Berlin State Highway
UNDERGROUND UTILITY LINE
TREE LINE
P.C. 92 + 92.8
CROSSWAY MOTORS
SEE SHEET 42
SEE SHEET 44
MATCH LINE
VEHICLE LOOP DETECTORS
TEST RESULTS
SIGNAL FACE ARRANGEMENT (12" LENSES)
HEADS: 2,4,6,8
HEADS: 1,5
NOTES:
1. REFER TO "TRAFFIC SIGNAL MISCELLANEOUS DETAILS" SHEET FOR COORDINATION DATA, CYCLE LENGTH, AND STANDARD NEMA PHASING INFORMATION.
2. DURING INSTALLATION OF NEW STRAIN POLES, EXISTING POLES MAY NEED GUYING DURING CONSTRUCTION. WHEN REMOVING THE EXISTING STRAIN POLES, THE EXISTING BASES SHALL REMAIN. THE TOP OF THE BASE (1-2') SHALL BE CUT OFF.
EXISTING
NEW
LEGEND
UTILITY POLE
LUMINAIRE
WOOD POLE
STRAIN POLE
STANCHION POLE
CONTROLLER CABINET
PULLBOX/JUNCTION BOX
SIGNAL HEAD
VEHICLE LOOP DETECTOR
CONDUIT
VEHICLE LOOPS
PEDESTAL POST
TRAFFIC PLANS (RT 302/ BERLIN SH)
PREPARED BY: TAE/CMB DATE 12/98
CHECKED BY: KGH DATE 12/98
DESIGN SUPERVISOR: TAE DATE 12/98
PROJ. BERLIN
NO. SIGNAL(4)
SHEET 37 OF 80 SHEETS


3Com U.S. Robotics
Faxmodem
56K* Faxmodem
ECONOLITE
CONTROL PRODUCTS, INC.
ASC/2S-2100
ASC/2M-100
ENTER
TELEMETRY
SDLC
I/O
TERMINAL/MODEM
MODEM
CONTROLLER


ASC/2S-2100
LS1
LS2
LS3
LS4
LS5
LS6
LS7
LS8
FL1
CUBE 200
K1


U.S. Robotics
56K Faxmodem
ECONOLITE
ASC/2M-10
ASC/2S-2100
CUBE 200


55KSI
2000

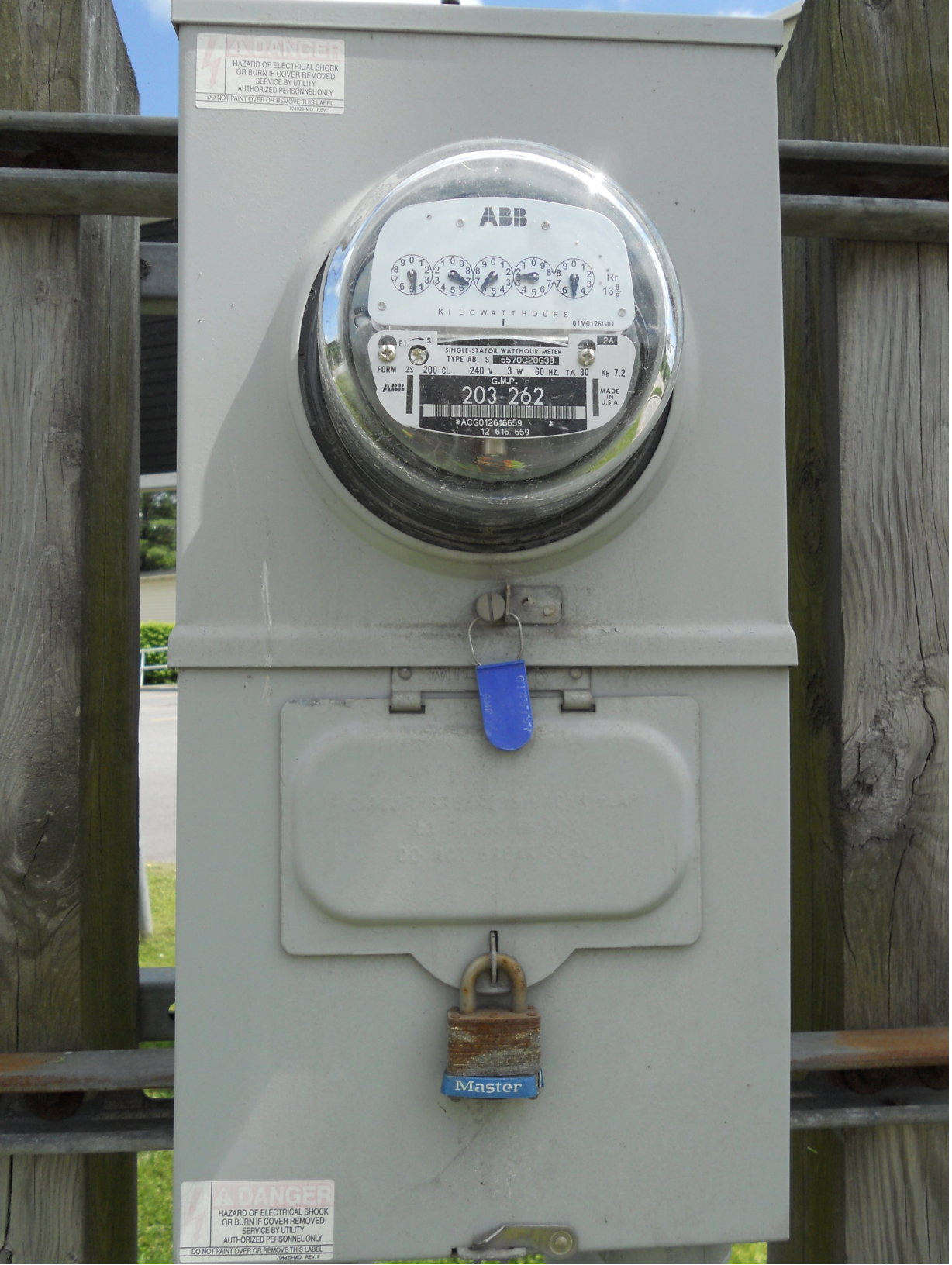

MOTEL


EAST
302
TO
VERMONT
62
Barre
HOSPITAL
INTERSTATE
89
ONLY
ONLY
MOTEL


ONLY
AUTOMOTIVE SERVICES
BARRE 4
EAST
302


LEFT TURN
YIELD
ON GREEN
TO
89
TO
62
SALE
SALE
SPECIAL


MONTPELIER 3
E. MONTPELIER 6
WEST
302
PARTRIDGE FARM RD
FOR LEASE
802-223-9571
BEGIN
CENTER LANE
ONLY
MODEL HOMES
VILLAGE HOMES
QUALITY MANUFACTURED HOMES
Single Wide • Double Wide • Modular
Land and Site Developers
223-9571
GoVillageHomes.com
149 Partridge Road, Berlin, VT 05641-2338


DANGER
HAZARD OF ELECTRICAL SHOCK
OR BURN IF COVER REMOVED
SERVICE BY UTILITY
AUTHORIZED PERSONNEL ONLY
DO NOT PAINT OVER OR REMOVE THIS LABEL
ABB
KILOWATTHOURS
01M0126G01
SINGLE-STATOR WATTHOUR METER
TYPE AB1 S
5570C20G38
FORM 2S 200 CL 240 V 3 W 60 HZ TA 30 Kh 7.2
G.M.P.
203 262
*ACG012616659
12 616 659
MADE IN U.S.A.
Master
DANGER
HAZARD OF ELECTRICAL SHOCK
OR BURN IF COVER REMOVED
SERVICE BY UTILITY
AUTHORIZED PERSONNEL ONLY
DO NOT PAINT OVER OR REMOVE THIS LABEL

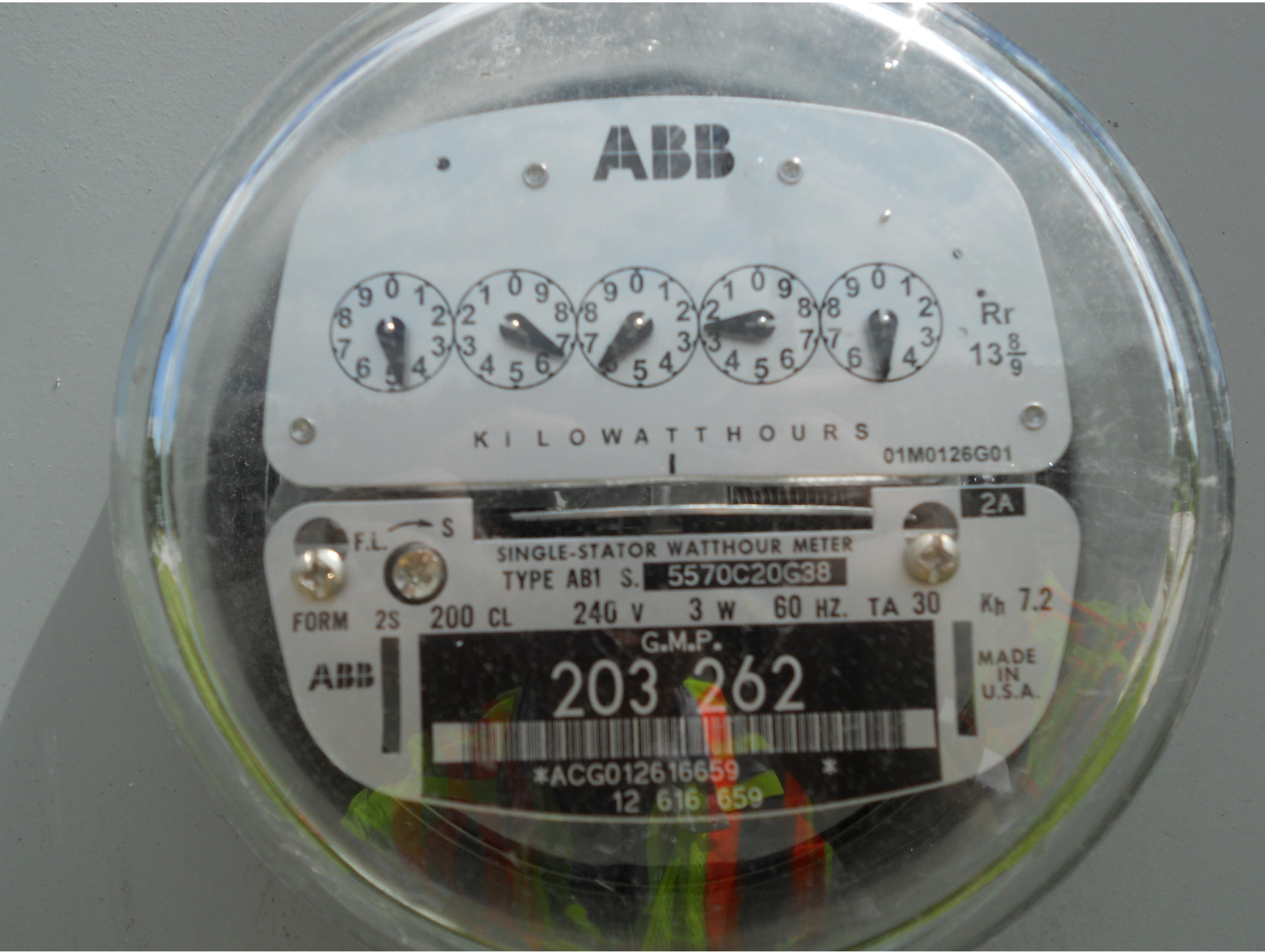


ABB
Rr
13 8/9
KILOWATTHOURS
01M0126G01
2A
F.L.
S
SINGLE-STATOR WATTHOUR METER
TYPE AB1 S. 5570C20G38
FORM 2S 200 CL 240 V 3 W 60 HZ. TA 30
Kh 7.2
ABB
G.M.P.
203 262
ACG012616659
12 616 659
MADE IN U.S.A.


TEL
30 UNITS


Vermonter
MOTEL
TDI 43 MPG
SPECIAL
FOR LEASE
Vermont
BGP 990
IMPALA LT
Vermont
EXF 119


FOR LEASE
802-223-9571
MONTPELIER 3
E. MONTPELIER 6
WEST
302
SPEED LIMIT 40
PARTRIDGE FARM RD
DGW 653
298 3959


WEST
TO
VERMONT
62
INTERSTATE
89
WEST 302 TO 2
Montpelier
ONLY
RIGHT LANE
MUST
TURN RIGHT
MOTEL


WEST
TO
VERMONT
62
INTERSTATE
89
WEST
302
TO
2
Montpelier
MONTPELIER 3
E. MONTPELIER 6
WEST
302
OR LEASE


WEST
TO
VERMONT
62
INTERSTATE
89
WEST 302 TO 2
Montpelier
ONLY
MONTPELIER
E. MONTPELIER
BERLIN CORNERS
H
FOR LEASE
ONLY


BARRE 4
EAST
302


MONTPELIER
E. MONTPELIER
WEST
302
LEFT TURN
YIELD
ON GREEN


KIA
SORENTO
ATM 955


WEST TO
302
2
EAST
302
SALE


LEFT TURN
YIELD
ON GREEN
SEARS

By-Phase Timing Data

	Phase											
Direction	1	2	3	4	5	6	7	8	9	10	11	12
Minimum Green	8	29	0	8	8	29	0	8	0	0	0	0
Bike Min Green	0	0	0	0	0	0	0	0	0	0	0	0
Cond Serv Min Grn	0	0	0	0	0	0	0	0	0	0	0	0
Walk	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clearance	0	7	0	7	0	7	0	7	0	7	0	7
Veh Extension	2.0	0.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
Alt Veh Exten	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Extension	0	0	0	0	0	0	0	0	0	0	0	0
Max 1	14	32	0	17	14	32	0	17	0	0	0	0
Max 2	13	30	0	20	13	30	0	20	0	0	0	0
Max 3	13	29	0	21	13	29	0	21	0	0	0	0
Det. Fail Max	0	0	0	0	0	0	0	0	0	0	0	0
Yellow Change	4.0	4.0	3.0	4.0	4.0	4.0	3.0	4.0	3.0	3.0	3.0	3.0
Red Clearance	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Act. B4 Init	0	0	0	0	0	0	0	0	0	0	0	0
Sec/Actuation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Initial	0	0	0	0	0	0	0	0	0	0	0	0
Time B4 Reduction	0	0	0	0	0	0	0	0	0	0	0	0
Cars Waiting	0	0	0	0	0	0	0	0	0	0	0	0
Time To Reduce	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Recall Data, Dimming

	Phase											
	1	2	3	4	5	6	7	8	9	10	11	12
Locking Detector. . . .	.	.	.	.	.	.	.	.	.	.	.	.
Vehicle Recall.	.	.	.	.	.	.	.	.	.	.	.	.
Pedestrian Recall . . .	.	.	.	.	.	.	.	.	.	.	.	.
Recall To Max	.	X	.	.	.	X	.	.	.	.	.	.
Soft Recall	.	.	.	.	.	.	.	.	.	.	.	.
Don't Rest Here	.	.	.	.	.	.	.	.	.	.	.	.
Ped Dark if No Call . .	.	.	.	.	.	.	.	.	.	.	.	.

Dimming:

	Load Switch															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Green/Walk. . . .	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Yellow/Ped Clear.	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Red/Don't Walk. .	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Coordination Patterns

Pattern 1

Cycle Length . . 80 COS 111
Offset 0
Vehicle Permissive . . [1] 0 [2] 0
Vehicle Perm 2 Displacement 0 Phase Reservice. . NO
Splits: Phase 1- 19 2- 38 3- 0 4- 23
Phase 5- 19 6- 38 7- 0 8- 23
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 . . 80 COS 211
Offset 0
Vehicle Permissive . . [1] 0 [2] 0
Vehicle Perm 2 Displacement 0 Phase Reservice. . NO
Splits: Phase 1- 18 2- 36 3- 0 4- 26
Phase 5- 18 6- 36 7- 0 8- 26
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 0
Vehicle Permissive . . [1] 0 [2] 0
Vehicle Perm 2 Displacement 0 Phase Reservice. . NO
Splits: Phase 1- 18 2- 35 3- 0 4- 27
Phase 5- 18 6- 35 7- 0 8- 27
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: .

Berlin US302, Corridor MS 603 US-302 & Berlin State Hwy 8/13/2012 8:32

TOD Weekly/Yearly

Weekly Program Numbers

	1	2	3	4	5	6	7	8	9	10	
Sunday . . .	1	1	1	1	1	1	1	1	1	1	Program No.
Monday . . .	1	1	1	1	1	1	1	1	1	1	Program No.
Tuesday. . .	1	1	1	1	1	1	1	1	1	1	Program No.
Wednesday. .	1	1	1	1	1	1	1	1	1	1	Program No.
Thursday . .	1	1	1	1	1	1	1	1	1	1	Program No.
Friday . . .	1	1	1	1	1	1	1	1	1	1	Program No.
Saturday . .	1	1	1	1	1	1	1	1	1	1	Program No.

Week of Year

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Prog	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Prog	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
Prog	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NIC Program Steps

Step	Program	Step Begins	Pattern	Override
1	1	0600	2	NO
2	1	0700	1	NO
3	1	0900	2	NO
4	1	1530	3	NO
5	1	1730	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	.	X	.	.	.	X	.	.	.	.	.	.
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 0700

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	.	X	.	.	.	X	.	.	.	.	.	.
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 0900

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	.	X	.	.	.	X	.	.	.	.	.	.
Ped Recall	.	.	.	.	.	.	.	.	.	.	.	.
Cond Service Inhibit	.	.	.	.	.	.	.	.	.	.	.	.
Phase Omit	.	.	.	.	.	.	.	.	.	.	.	.
Special Function	.	.	.	.	.	.	.	.				

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

Step 4 Program 1 Step Begins 1530

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	.	X	.	.	.	X	.	.	.	.	.	.
Ped Recall	.	.	.	.	.	.	.	.	.	.	.	.
Cond Service Inhibit	.	.	.	.	.	.	.	.	.	.	.	.
Phase Omit	.	.	.	.	.	.	.	.	.	.	.	.
Special Function	.	.	.	.	.	.	.	.				

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

TOD Program Steps

Step 5 Program 1 Step Begins 1730

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	.	X	.	.	.	X	.	.	.	.	.	.
Ped Recall	.	.	.	.	.	.	.	.	.	.	.	.
Cond Service Inhibit. . . .	.	.	.	.	.	.	.	.	.	.	.	.
Phase Omit	.	.	.	.	.	.	.	.	.	.	.	.
Special Function	.	.	.	.	.	.	.	.				

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

Step 6 Program 1 Step Begins 2200

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	.	.	.	.	.	.
