

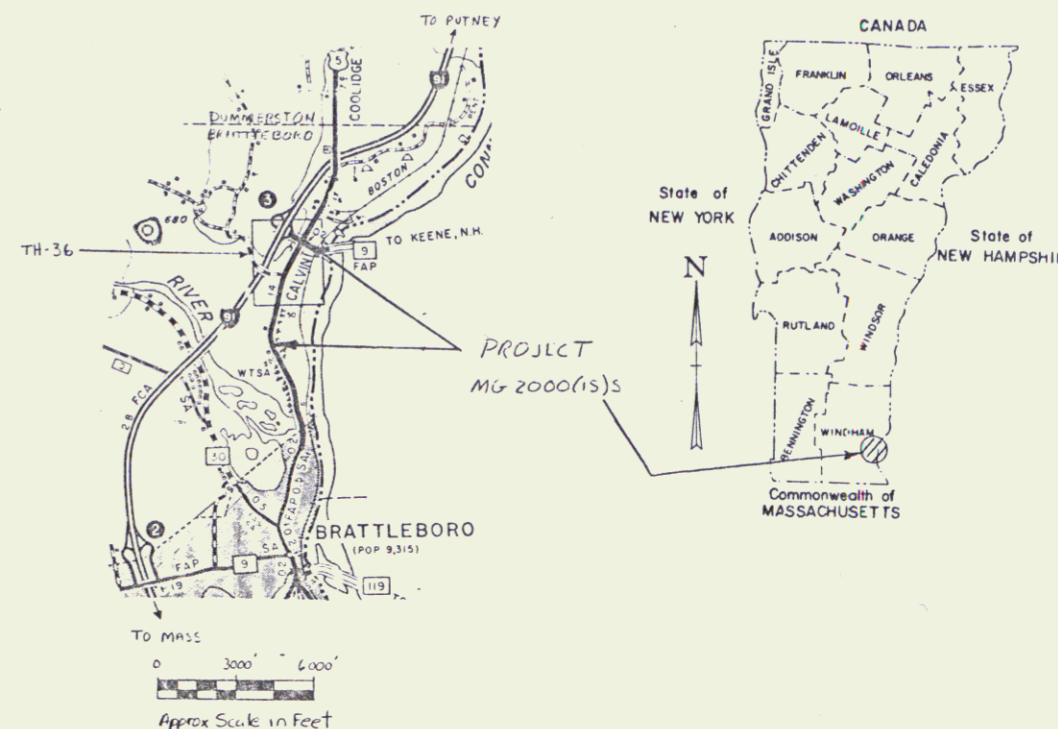
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3. Traffic Signal - US 5 & Brattleboro North
4. Traffic Signal - US 5 & Black Mt Rd
5. Traffic Signal - US 5 & Keene Turn
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7. Signal Pole Cross Section
8. Signal Pole Summary
9. Traffic Signal Notes & Details
10. Signal Diagrams (T&D)
11. Brattleboro

STATE OF VERMONT  
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT  
TOWN OF BRATTLEBORO  
COUNTY OF WINDHAM  
US ROUTE 5 (FAP)

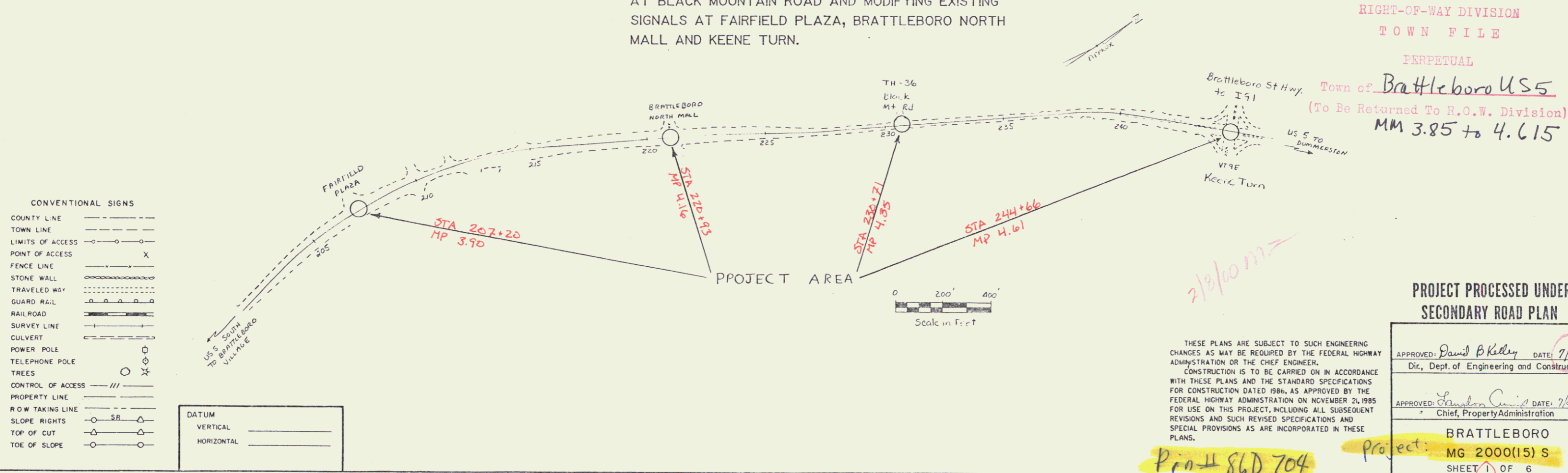


R.O.W. PLANS

BEGINNING AT A POINT 3.85 MILES NORTH OF THE GUILFORD-BRATTLEBORO TOWN LINE ON US 5 AND EXTENDING NORTHERLY 0.8 MILES.

LENGTH OF PROJECT - 4 INTERSECTIONS

PROJECT CONSISTS OF INSTALLING A TRAFFIC SIGNAL AT FAIRFIELD PLAZA AND MODIFYING EXISTING SIGNALS AT BLACK MOUNTAIN ROAD, BRATTLEBORO NORTH MALL AND KEENE TURN.



RIGHT-OF-WAY DIVISION  
TOWN FILE  
PERPETUAL  
Town of Brattleboro US 5  
(To Be Returned To R.O.W. Division)  
MM 3.85 to 4.615

2/9/88

PROJECT PROCESSED UNDER  
SECONDARY ROAD PLAN

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1986, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 24, 1985 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

APPROVED: David B. Kelly DATE: 7/8/88  
Dir., Dept. of Engineering and Construction

APPROVED: [Signature] DATE: 7/6/88  
Chief, Property Administration

Project: BRATTLEBORO  
MG 2000(15) S  
SHEET 1 OF 6

Pin # 86D 704

STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
RIGHT-OF-WAY PLANS  
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1	FAIRFIELD ASSOCIATES LIMITED	3	206 + 85 LI.	207 + 15 LI.			INSTALL & MAINT (P) 0.01 A±	WD	8-3-88	BRATTLEBORO	207	212	375 SF± SIGNS, TRAFFIC LOOPS, POLES, & PAVEMENT MARKINGS
2	RICHARD A. GROSSMAN & ROBERT C. BAKER, TRUSTEES FOR RISSA W. GROSSMAN-LOOMIS J. GROSSMAN, JR. & ROBERT C. BAKER TRUSTEES FOR RACHEL GROSSMAN & JOSHUA J. GROSSMAN-ROBERT C. BAKER & LOOMIS J. GROSSMAN, JR. AS TRUSTEES FOR LAUREN S. BAKER, NELSON J. BAKER & RICHARD A. BAKER	4	220 + 62 LI.	220 + 97 LI.			INSTALL & MAINT (P) 0.03 A±	WOOE		BRATTLEBORO			1225 SF± - SIGNS, TRAFFIC LOOPS, POLES, & PAVEMENT MARKINGS
3	JOHNSON, VICTOR J. & SANDRA K. HARRIS-JOHNSON & KESSEN, ROBERT B. JR. & LINDA G. & CHICKERING, ALFRED G.	5	230 + 26 LI. 230 + 30 LI.	230 + 47 LI.			TRIM (P) INSTALL & MAINT (P) 0.01 A±	WOOE	8-5-88	BRATTLEBORO	207	483	TREE 400 SF± - SIGNS, TRAFFIC LOOPS, POLES, & PAVEMENT MARKINGS
4	DELETED												FORMERLY WAITE, MILLARD JR. & JOAN M.
5	D. J. WHOLESALE BUILDING MATERIALS DIST. INC.	5	230 + 77 RT. 230 + 63 RT.	230 + 88 RT.			CONST. EASE (T) INSTALL & MAINT (P) 0.01 A±	WD	8-19-88	BRATTLEBORO	207	480	50 SF± SIGN

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	5	PARCEL NO. 3, JOHNSON & KESSEN: ADD CHICKERING TO TITLE SO BUFFER ZONE AREA CAN BE RELEASED PER CO. 7350	8-2-88	FJM	<i>Lg</i>
2	2,5	PARCEL NO. 3 JOHNSON DELETED TREE REMOVAL AT STA. 230+26 LI. ADDED TRIM (P) AT SAME STATION PER CO. 7353	8-9-88	A.S.J.	<i>gop</i>
3	2,5 5A	PARCEL NO. 4 WAITE: DELETED PARTY FROM PROJECT, THEY REFUSED TO SIGN, AND ADDED SHEET 5A PER CO. 7446  <i>Mylars to Traffic</i> 11-9-88	11-8-88	A.S.J.	<i>gop</i>

R.O.W. PLANS

DR. RT. - DRAINAGE RIGHT  
DIT. RT. - DITCHING RIGHT  
CH. RT. - CHANNEL RIGHT  
DRIVE RT. - DRIVE RIGHT  
CUL. RT. - CULVERT RIGHT  
⊙ - DEMOLITION OR REMOVAL  
W - WATER SOURCES

PRESENT R.O.W.  
--- TAKING WITHOUT ACCESS  
--- P --- TAKING WITHOUT ACCESS ALONG PROPERTY LINES  
--- TAKING WITH ACCESS  
(P) PERMANENT EASEMENT  
(T) TEMPORARY EASEMENT

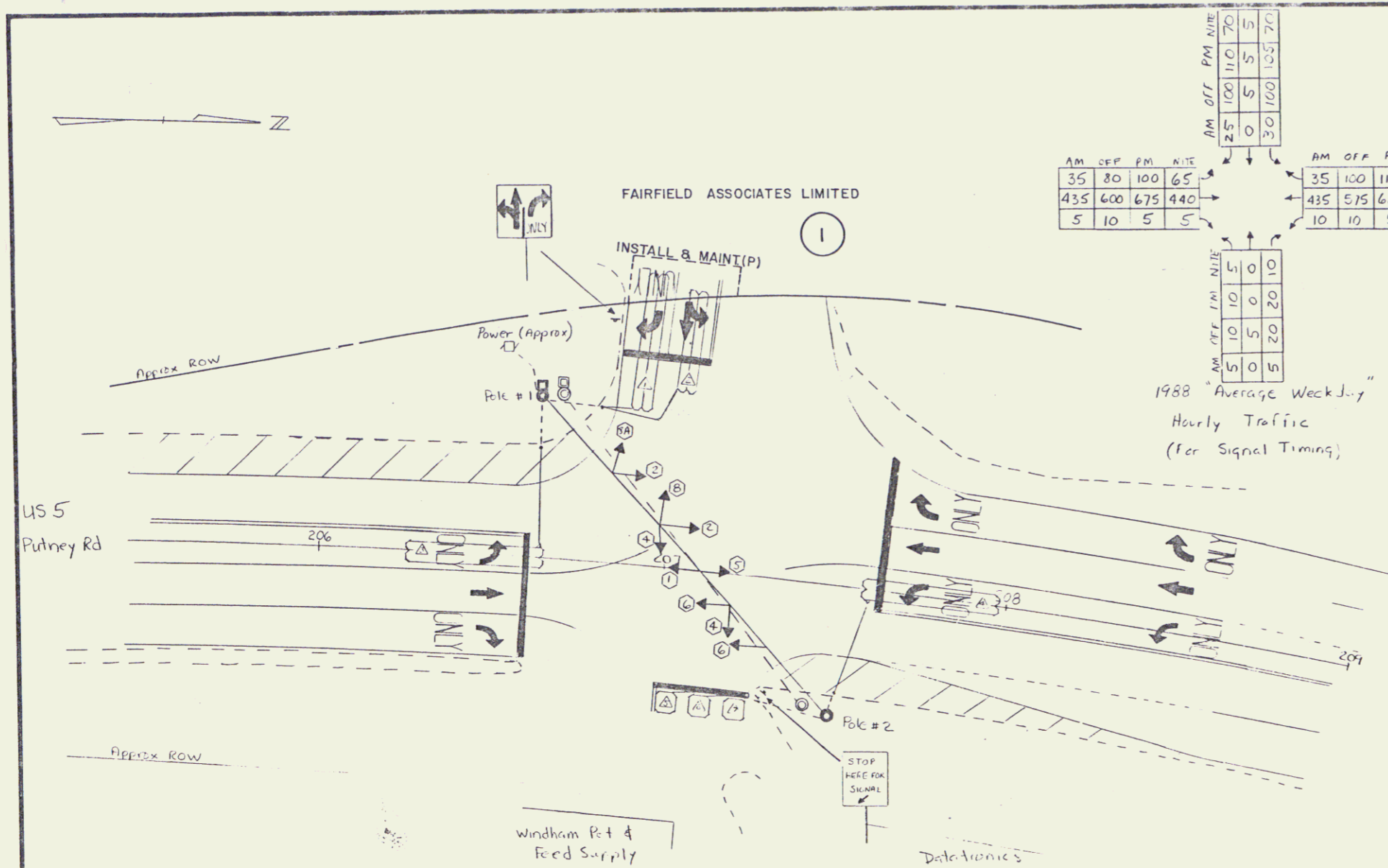
LEGEND  
--- CONST. EASE --- CONST. EASEMENT  
SR --- SLOPE RIGHTS  
P --- PROPERTY LINE  
--- TOP OF CUT  
--- TOE OF SLOPE

APPROVED *Barbara Bl* DATE 7-8-88  
CHIEF OF PLANS & TITLES

PROJECT BRATTLEBORO  
NO. MG 2000(15) S  
SHEET 2 OF 5

DEC 11 1990

2

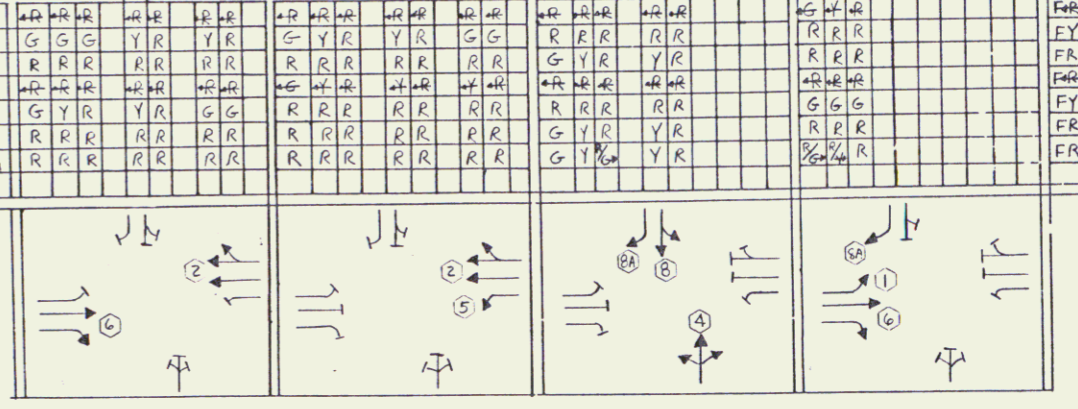


1988 "Average Weekly" Hourly Traffic (for Signal Timing)

AM OFF	PM	NITE
35	80	100
435	600	675
5	10	5

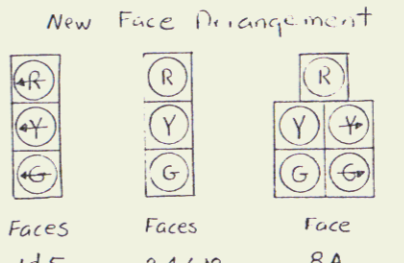
SIGNAL PHASING & TIMING

INITIAL EXT MIN	Phase A (Dwell)			Phase B			Phase C			Phase D			
	φB	φC	φD	φC	φD	φA	φD	φA	φA	φA	φA		
MAX AM	18	42	42	42	11	42	42	42	12	41	41	16	42
MAX OFF	20	42	42	42	14	42	42	42	15	41	41	18	42
MAX PM	23	42	42	42	13	42	42	42	14	41	41	17	42
MAX NITE	13	42	42	42	8	42	42	42	8	41	41	8	42



TIME OF DAY PLAN

TIME	PHASE
6-7 AM	NITE
7-9 AM	AM
9 AM-2:30 PM	OFF
3:30-5:30 PM	PM
5:30-7 PM	OFF
7-10 PM	NITE
10 PM-6 AM	FLASH



Vehicle Loop Detectors

LANE	LOOP No.	SIZE	TYPE	No. TURNS	CALL φ
DRIVE RT	1	6'x40'	QUAD		φC
DRIVE LT	2	6'x30'	QUAD		φC
NB LT	3	6'x40'	QUAD		φD
SB LT	4	6'x40'	QUAD		φB
DRIVE LT	5	6'x6'	RECT		φC
DRIVE CT	6	6'x6'	RECT		φC
DRIVE RT	7	6'x6'	RECT		φC

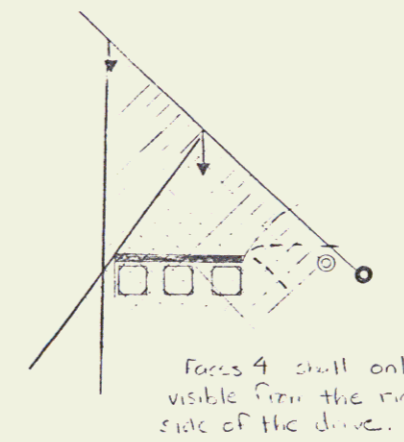
- NOTES:
- RETAIN EXISTING SIGNALS UNTIL NEW ONES HAVE BEEN INSTALLED. TEMPORARY GUYING OF EXISTING POLE(S) MAY BE REQUIRED.
  - REPLACE ALL EXISTING SIGNAL EQUIPMENT (POLES, SIGNALS, WIRING, ETC.) WITH NEW AS SHOWN.
  - RETAIN EXISTING POWER AND RELOCATE TO NEW POLE.
  - INSTALL NEW LOOPS AS SHOWN. LOOP LEAD-INS FOR LOOPS 4, 5, 6 & 7 SHALL CROSS US 5 VIA THE SPAN WIRE.
  - INSTALL CONDUITS AS SHOWN.
  - INSTALL NEW CONTROLLER, CABINET, ETC. ON POLE #1.
  - INSTALL CONCRETE PAD UNDER CABINET. SEE SHEET 8 FOR DETAIL.
  - INSTALL SIGNS AND PAVEMENT MARKINGS AS SHOWN.
  - SEE SHEETS 18-21 FOR OFFSETS.
  - SEE SHEET 16 FOR SIGN AND POST QUANTITIES.
  - SEE SHEETS 7-9 FOR NOTES AND ADDITIONAL INFORMATION.
  - REMOVE TOP OF THE EXISTING BASES TO A POINT 1' +/- BELOW GROUND, BACKFILL AND SEED.
  - SEE SHEETS 14 FOR STRAIN POLE INFORMATION.

Vehicle Loop Detectors  
 NB Left Turn (1)  
 SB Left Turn (1)  
 Fairfield Plaza LT & RT (2)  
 Commercial Drive (3)  
 + lead-ins  
 See table at right for sizes

Electrical Conduit  
 US 5 Curb to Pole #1  
 US 5 Curb to Pole #2  
 Fairfield Plaza Curb to Pole #1  
 Commercial Drive Curb to Pole #2

Durable Letter in Word Marking  
 206+93, 78-86' Lt (4) "ONLY"  
 It is assumed that all other markings will be placed as part of another project (HMA 2811).

Faces 4 shall be optically programmed and masked as shown below.



Loops 1&2 shall be on separate amplifiers with #1 a delay call amp. set at 0.  
 Loops 5,6,7 shall be combined on a separate delay call amp set at 0.

LEGEND

EXISTING	NEW	LEGEND
⊕	⊕	UTILITY POLE
—○—	—○—	LUMINAIRE
○	○	WOOD POLE
●	●	STRAIN POLE
□	□	CONTROLLER CABINET
□	□	PULL BOX / JUNCTION BOX
—○—	—○—	SIGNAL HEAD
—	—	CONDUIT
—	—	VEHICLE LOOPS
□	□	SIGNS

DATUM

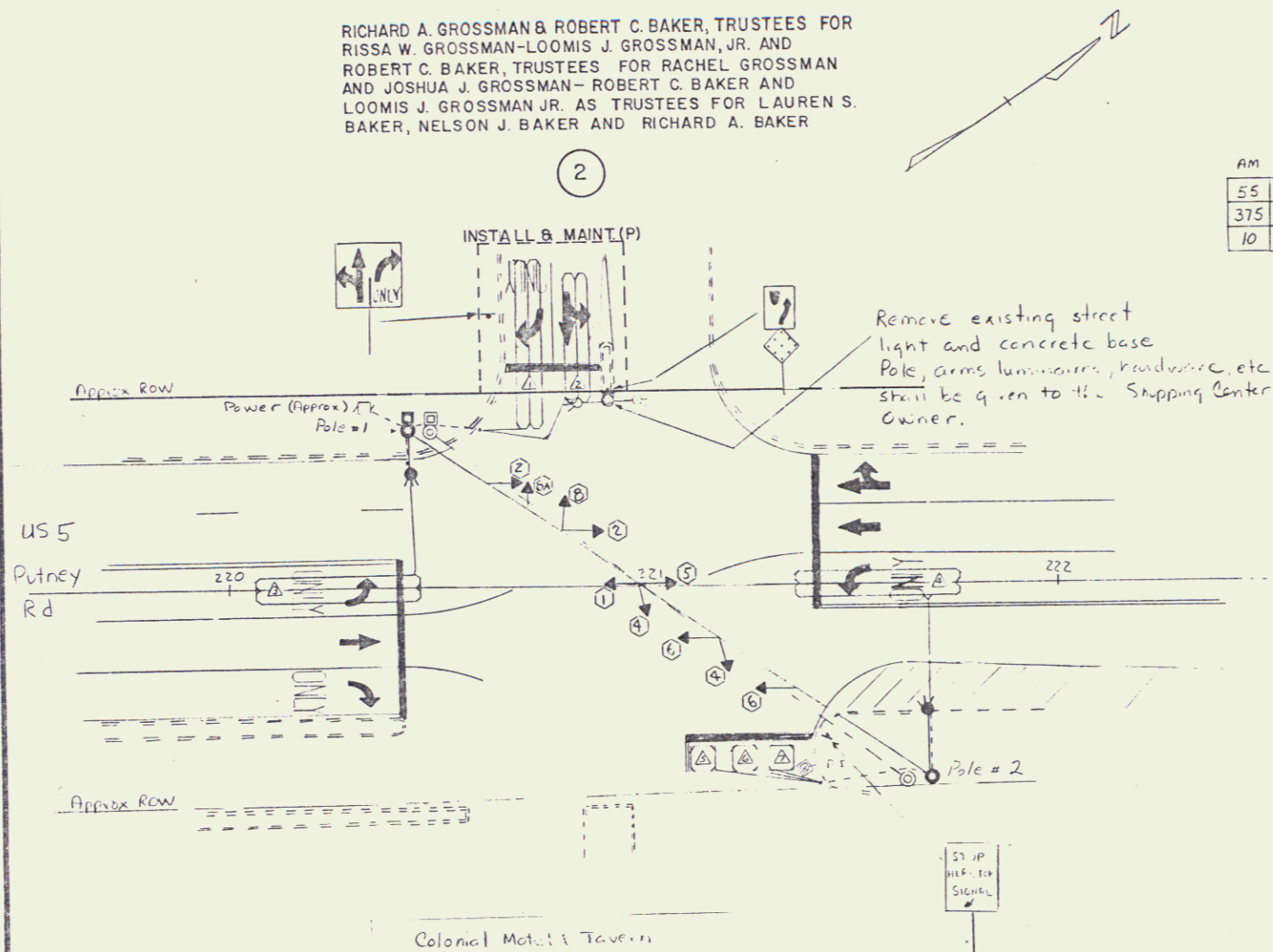
VERTICAL	
HORIZONTAL	

TRAFFIC SIGNAL DETAILS  
 PUTNEY RD & FAIRFIELD PLAZA

PREPARED BY: LEA DATE: 3/88  
 DRAWN BY: LEA DATE: 11/87  
 BRATTLEBORO  
 PROJ. MG NO. 2000(15)S  
 SHEET 3 OF 6



RICHARD A. GROSSMAN & ROBERT C. BAKER, TRUSTEES FOR  
 RISSA W. GROSSMAN-LOOMIS J. GROSSMAN, JR. AND  
 ROBERT C. BAKER, TRUSTEES FOR RACHEL GROSSMAN  
 AND JOSHUA J. GROSSMAN- ROBERT C. BAKER AND  
 LOOMIS J. GROSSMAN JR. AS TRUSTEES FOR LAUREN S.  
 BAKER, NELSON J. BAKER AND RICHARD A. BAKER



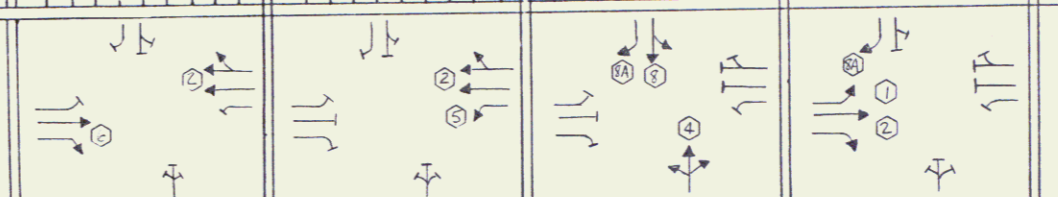
AM OFF	PM NITE	AM OFF	PM NITE
55	130	125	20
375	530	575	375
10	25	20	20

1988 "Average Weekday"  
 Hourly Traffic  
 (for Signal Timing)

SIGNAL PHASING & TIMING

INITIAL	Phase A (Dwell)				Phase B				Phase C				Phase D			
	W	D	C	D	W	C	D	A	W	D	A	W	C	A	D	
EXT	1.5				1.5				1.5				1.5			
MIN																
MAX AM	125	42	42	42	115	42	42	42	135	41	41		125	42		
MAX OFF	215	42	42	42	125	42	42	42	195	41	41		145	42		
MAX PM	245	42	42	42	115	42	42	42	185	41	41		125	42		
MAX NITE	13	42	42	42	8	42	42	42	8	41	41		8	42		

FACE	1	2	4	5	6	8	8A
1	RRRR	RRRR	RRRR	RRRR	RRRR	RRRR	RRRR
2	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
4	RRRR	RRRR	RRRR	RRRR	RRRR	RRRR	RRRR
5	RRRR	RRRR	RRRR	RRRR	RRRR	RRRR	RRRR
6	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
8	RRRR	RRRR	RRRR	RRRR	RRRR	RRRR	RRRR
8A	RRRR	RRRR	RRRR	RRRR	RRRR	RRRR	RRRR



Durable 24" Stopbar  
 220+67-220+91, 53' LT

Durable Arrow  
 220+73, 57-65' LT (1)  
 220+85, 57-70' LT (2)

Durable Letter in Word Marking  
 220+73, 69-77' LT (4) "ONLY"

Durable 4" White Line  
 220+80, 53' LT - 77' LT

Durable 4" Yellow Line  
 220+91, 47' LT - 220+93, 77' LT  
 220+95, 47' LT - 220+93, 77' LT

New Face Arrangement



Faces 195  
 Faces 2, 4, 6, 8  
 Face 8A

Faces 4 shall be optically programmed and masked as shown below.

Vehicle Loop Detectors

LANE	LOOP No.	SIZE	TYPE	NO. TURNS	CALL #
DRIVE RT	1	6'x40'	QUAD		ΦC
DRIVE LT	2	6'x30'	QUAD		ΦC
NB LT	3	6'x90'	QUAD		ΦD
SB LT	4	6'x40'	QUAD		ΦB
DRIVE LT	5	6'x6'	RECT		ΦC
DRIVE CT	6	6'x6'	RECT		ΦC
DRIVE RT	7	6'x6'	RECT		ΦC

Loops 1&2 shall be on separate amplifiers with #1 a delay call amp. set at 0.  
 Loops 5,6,7 shall be combined on a separate delay call amp. set at 0.

NOTES:

- RETAIN EXISTING SIGNALS UNTIL NEW ONES HAVE BEEN INSTALLED. TEMPORARY GUYING OF EXISTING POLE(S) MAY BE REQUIRED.
- REPLACE ALL EXISTING SIGNAL EQUIPMENT (POLES, SIGNALS, WIRING, ETC.) WITH NEW AS SHOWN.
- RETAIN EXISTING POWER AND RELOCATE TO NEW POLE.
- INSTALL NEW LOOPS AS SHOWN. LOOP LEAD-INS FOR LOOPS 4, 5, 6 & 7 SHALL CROSS US 5 VIA THE SPAN WIRE.
- INSTALL CONDUITS AS SHOWN.
- INSTALL NEW CONTROLLER, CABINET, ETC. ON POLE #1.
- INSTALL CONCRETE PAD UNDER CABINET. SEE SHEET 8 FOR DETAIL.
- INSTALL SIGNS AND PAVEMENT MARKINGS AS SHOWN.
- SEE SHEETS 18-21 FOR OFFSETS.
- SEE SHEET 16 FOR SIGN AND POST QUANTITIES.
- SEE SHEETS 8-9 FOR NOTES AND ADDITIONAL INFORMATION.
- REMOVE TOP OF THE EXISTING BASES TO A POINT 1' +/- BELOW GROUND, BACKFILL AND SEED.
- SEE SHEETS 14 FOR STRAIN POLE INFORMATION.
- REMOVE EXISTING STREET LIGHT POLE & CONCRETE BASE. BACKFILL HOLE AND PLACE CURBING AROUND ISLAND NOSE. SEE DETAIL ON SHEET 8.

Vehicle Loop Detectors

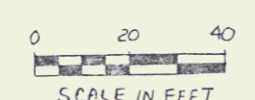
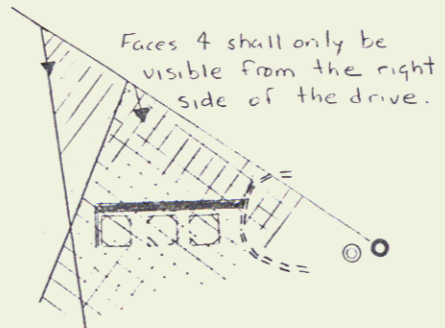
- NB Left Turn (1)
  - SB Left Turn (1)
  - Brattleboro North Lt/RT (2)
  - Commercial Drive (2)
  - + Lead ins
- See table at right for sizes

Electrical Conduit

- US 5 Curb to Pole #1
- US 5 Curb to Pole #2
- Brattleboro North Curb to Pole #1
- Commercial Drive Curb to Pole #2

It is assumed that all other markings will be placed as part of another project (HMA 2811).

TIME OF DAY PLAN	6-7 AM	NITE
7-9 AM	AM	
9 AM-3:30 PM	OFF	
3:30-5:30 PM	PM	
5:30-7 PM	OFF	
7-10 PM	NITE	
10 PM-6 AM	FLASH	



EXISTING	NEW	LEGEND
○	○	UTILITY POLE
○	○	LUMINAIRE
○	○	WOOD POLE
○	○	STRAIN POLE
□	□	CONTROLLER CABINET
□	□	PULL BOX / JUNCTION BOX
○	○	SIGNAL HEAD
---	---	CONDUIT
---	---	VEHICLE LOOPS
□	□	SIGNS

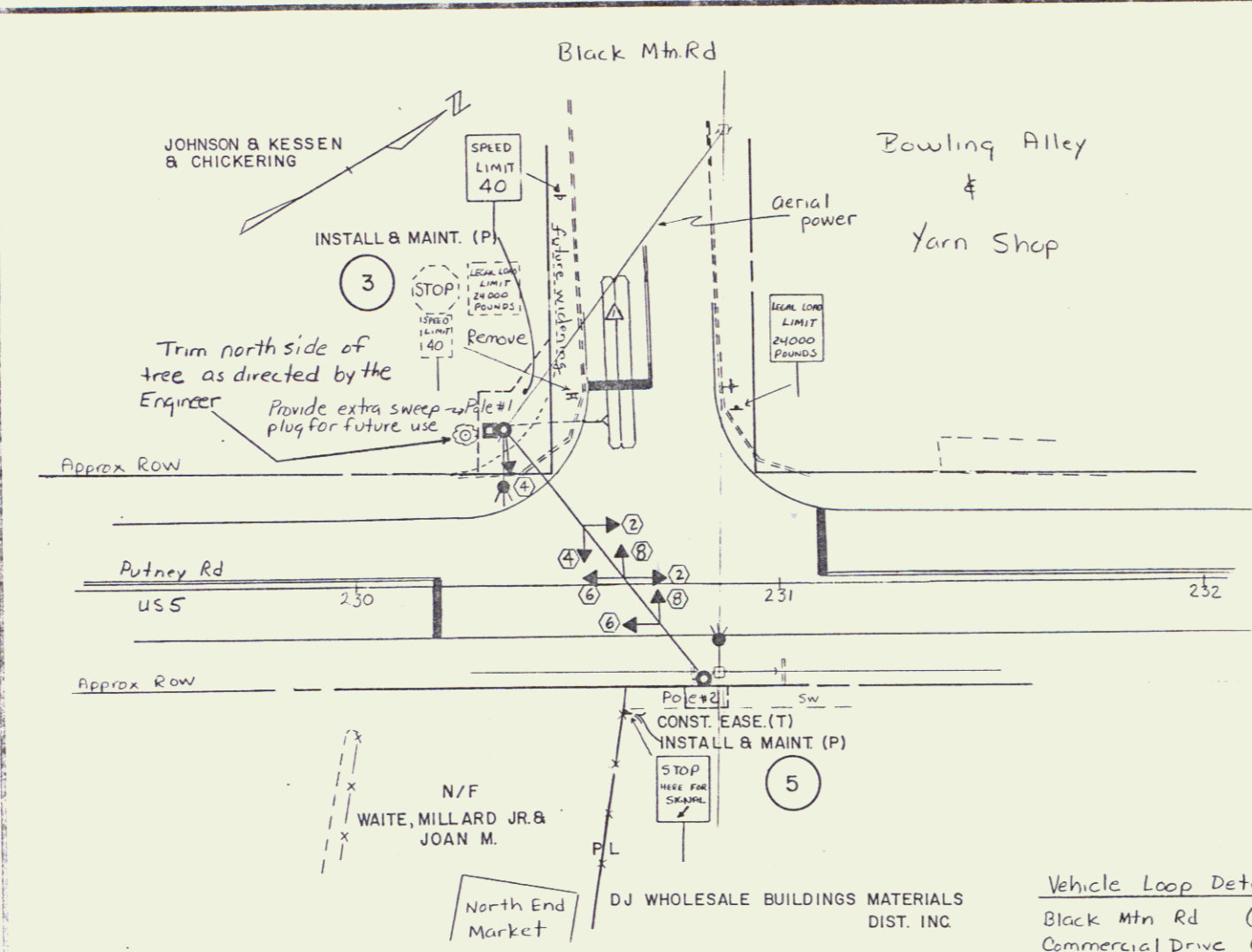
ROW PLANS

TRAFFIC SIGNAL DETAILS PUTNEY RD & BRATTLEBORO NORTH MALL	DESIGNED BY LKA DATE 3/88 DRAWN BY DATE TRACED BY LKA DATE 11/87 BRATTLEBORO PROJ. MG- NO 2000(15) S SHEET 4 OF 6
---	--

DATUM	_____
VERTICAL	_____
HORIZONTAL	_____

DEC 11 1990

4



**NOTES:**

1. INSTALL STRAIN POLES, SPAN WIRE & SIGNALS AS SHOWN. EXCAVATION FOR STRAIN POLE #2 MUST BE DONE BY HAND BECAUSE OF A NEARBY HIGH PRESSURE ASBESTOS WATER MAIN. BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF GRANULAR BACKFILL FOR STRUCTURES, SUBSECTION 704.08. ALL COSTS SHALL BE SUBSIDIARY TO ITEM 678.15. SEE SHEETS 14 FOR STRAIN POLE DETAILS.
2. THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH ALL INVOLVED UTILITY COMPANIES ( AERIAL & UNDERGROUND ).
3. INSTALL LOOPS AS SHOWN. LOOP LEAD-INS FOR LOOPS 2&3 SHALL CROSS US 5 VIA THE SPAN WIRE.
4. INSTALL CONTROLLER, CABINET, ETC. ON POLE #1.
5. INSTALL CONCRETE PAD UNDER CABINET. SEE SHEET 8 FOR DETAIL.
6. PROVIDE AERIAL POWER AS SHOWN.
7. REMOVE AND INSTALL SIGNS AS SHOWN.
8. APPLY PAVEMENT MARKINGS AS SHOWN.
9. SEE SHEETS 18-21 FOR OFFSETS.
10. SEE SHEET 16 FOR SIGN AND POST QUANTITIES.
11. SEE SHEETS 8-9 FOR NOTES AND ADDITIONAL INFORMATION.
12. REMOVE CL. MARKINGS BETWEEN STOPBARS, IF PRESENT. (EST 30 SF)

DATUM	_____
VERTICAL	_____
HORIZONTAL	_____

Vehicle Loop Detectors

Black Mtn Rd (1)  
Commercial Drive (3)  
+ lead-ins

See table at right for loop sizes.

Electrical Conduit

Black Mtn Rd Curb to Pole #1  
Extra Sweep @ Pole #1  
Commercial Drive Shoulder to Pole #2

Work to be done by Utility Comp

The Contractor shall pay for and include this work in his bid for item 678.15

1. Provide aerial power to the controller
2. Install a 175 Watt Mercury, Type II Medium Semi cut-off luminaire, preferably, equivalent to that shown on sheet 8 at a 28-30' mounting height on the utility pole next to pole #2.

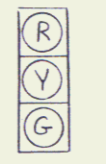
1988 Average Weekday Hourly Traffic (For Signal Timing)

AM	OFF	PM	NITE	AM	OFF	PM	NITE
50	50	50	30	85	45	45	25
400	620	765	400	480	650	660	410
15	20	20	15	15	20	15	15

PHASING & TIMING

	Phase A (Dwell)				Phase B			
	Clear To: #B				Clear To: #A			
INITIAL	-	-	-	-	6.5	-	-	-
EXT	-	-	-	-	1.5	-	-	-
MINIMUM	-	-	-	-	8.4	1	-	-
MAX AM	57	4	2	-	12	4	1	-
MAX OFF	61	4	2	-	18	4	1	-
MAX PM	64	4	2	-	15	4	1	-
MAX NITE	37	4	2	-	12	4	1	-

Signal Face Arrangement



All Faces

TIME OF DAY PLAN

7-9 AM	AM
9 AM-3:30 PM	OFF
3:30-5:30 PM	PM
5:30-7 PM	OFF
7-10 PM	NITE
10 PM-7 AM	FLASH

Vehicle Loop Detectors

LANE	LOOP No.	SIZE	TYPE	No. TURNS	CALL #
BLACK MT	Δ	6'x40'	QUAD		Φ B
DRIVE LT	Δ	6'x6'	RECT		Φ B
DRIVE RT	Δ	6'x6'	RECT		Φ B

Loop #1 shall be on a separate amplifier from Loops #2&3. Both amps shall be delay call set at 0.

Durable 24" Stepbar

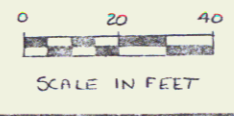
230+19 2'LT ~ 12'RT  
230+37 ~ 230+62, 30'RT  
231+10 2'LT ~ 16'

Durable 4" Yellow Lines

230+37, 31'RT ~ 38'RT (Double)

It is assumed that all other markings will be placed as part of another project (HMA 2811).

EXISTING	NEW	LEGEND
⊕	⊕	UTILITY POLE
⊖	⊖	LUMINAIRE
○	○	WOOD POLE
⊙	⊙	STRAIN POLE
⊠	⊠	CONTROLLER CABINET
⊡	⊡	PULL BOX / JUNCTION BOX
⊞	⊞	SIGNAL HEAD
—	—	CONDUIT
⊞	⊞	VEHICLE LOOPS
⊞	⊞	SIGNS



TRAFFIC SIGNAL  
DETAILS  
PUTNEY RD  
&  
BLACK MTN RD

R.O.W. PLANS  
PREPARED BY LKA DATE 3/88  
DRAWN BY \_\_\_\_\_ DATE \_\_\_\_\_  
TRACED BY LKA DATE 11/87  
BRATTLEBORO  
PROJ. MG NO. 2000(15)S  
SHEET 5 OF 6

DEC 11 1990

5

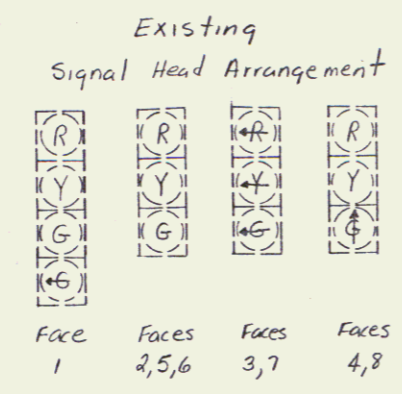


1988 "Average Weekday" Hourly Traffic (For Signal Timing)

AM OFF	PM NITE	AM OFF	PM NITE
110	250	285	200
205	290	310	200
145	185	300	195

AM OFF	PM NITE	AM OFF	PM NITE
150	180	220	150
130	160	170	130
70	50	85	60



NO R.O.W. REQUIRED

TIME OF DAY PLAN

7-9 AM	AM
9 AM-3:30 PM	OFF
3:30-5:30 PM	PM
5:30-7 PM	OFF
7 PM-7 AM	NITE

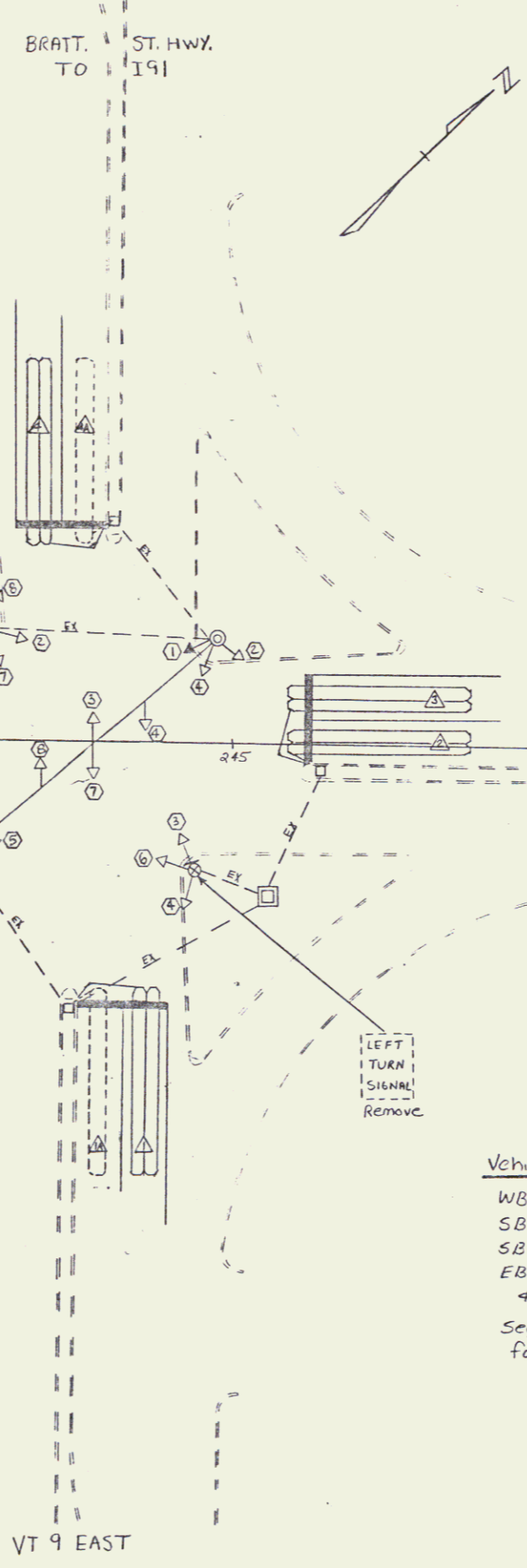
\* See Note 10

PHASING & TIMING

	Phase A (Dwell)				Phase B				Phase C				Phase D			
	W	E	S	N	W	E	S	N	W	E	S	N	W	E	S	N
INITIAL																
EXT																
MIN																
MAX AM	135	42	42	42	13	42	42	42	125	42	42	42	12	42		
MAX OFF	195	42	42	42	14	42	42	42	205	42	42	42	12	42		
MAX PM	19	42	42	42	155	42	42	42	18.5	42	42	42	13	42		
MAX NITE	11	42	42	42	8	42	42	42	9	42	42	42	8	42		

FACE	1	2	3	4	5	6	7	8
1	W	E	S	N	W	E	S	N
2	R	R	R	R	R	R	R	R
3	R	R	R	R	R	R	R	R
4	R	R	R	R	Y	R	Y	R
5	R	R	R	R	R	R	R	R
6	G	Y	R	Y	R	R	R	R
7	R	R	R	R	R	R	R	R
8	R	R	R	R	R	R	R	R



- NOTES:
- CHANGE EXISTING SIGNAL HEAD #1 FROM R-Y-G-GA TO RA-YA-GA.
  - CHANGE EXISTING SIGNAL HEAD #5 FROM R-Y-G TO RA-YA-GA.
  - INSTALL NEW LOOPS AS SHOWN. USE EXISTING PULLBOXES & CONDUIT TO ROUTE LEAD-INS TO THE CONTROLLER.
  - INSTALL NEW CONTROLLER AND OTHER EQUIPMENT IN EXISTING CABINET. RETROFIT THE CABINET DOOR AND POLICE DOOR WITH SWITCHES AS DISCUSSED IN THE NOTES ON SHEET 9.
  - REMOVE SIGNS AS SHOWN.
  - SEE SHEETS 18-21 FOR OFFSETS.
  - SEE SHEET 16 FOR SIGN QUANTITIES.
  - SEE SHEETS 8-9 FOR NOTES AND ADDITIONAL INFORMATION.
  - ALL PAVEMENT MARKINGS ARE EXISTING.
  - Set Coordinator Free from 10PM-6AM

Vehicle Loop Detectors

LANE	LOOP No.	SIZE	TYPE	No. TURNS	CALL #
WB THRU	1	6' x 45'	QUAD		Φ B
WB LT	2	EXISTING			Φ B
SB LT	3	6' x 45'	QUAD		Φ C
SB THRU	4	6' x 45'	QUAD		Φ C
EB THRU	5	6' x 45'	QUAD		Φ D
EP LT	6	EXISTING			Φ D

Each loop shall have its own amp.

Vehicle Loop Detectors  
 WB thru (1)  
 SB Lt (1)  
 SB thru (1)  
 EB thru (1)  
 4 lead-ins  
 See table above right for loop sizes

EXISTING	NEW	LEGEND
□	□	UTILITY POLE
○	○	LUMINAIRE
○	○	WOOD POLE
○	○	STEAM POLE
□	□	CONTROLLER CABINET
□	□	PULL BOX / JUNCTION BOX
○	○	SIGNAL HEAD
—	—	CONDUIT
—	—	VEHICLE LOOPS
□	□	SIGNS
○	○	PEDESTAL POST

R.O.W. PLANS

TRAFFIC SIGNAL  
 DETAILS  
 PUTNEY RD,  
 191 & VT 9E  
 KEENE TURN

DESIGNED BY: LKA DATE: 3/88  
 DRAWN BY: LKA DATE: 4/88  
 TRACED BY: LKA DATE: 4/88

Brattleboro  
 PROJ. MG NO 2000(15)S  
 SHEET 6 OF 6

