MAJOR EQUIPMENT LIST

EQUIPMENT ITEM NO. 678.15	US 5 (MAIN STREET) @ FLAT STREET
CANTILEVER POLES W/MAST ARMS	1
PEDESTAL POSTS	5
NEW 12" TRAFFIC SIGNAL HEADS W/ TUNNEL VISORS, DISCONNECT HANGERS, BACKPLATES AND MOUNTING HARDWARE	
ONE-WAY, 3-SECTION	2
ONE-WAY, 5-SECTION	1
TWO-WAY, 3-SECTION	1
ONE-WAY, 3-SECTION PEDESTAL POST TOP-MOUNTED	2
PEDESTRIAN PUSHBUTTON ASSEMBLIES - PEDESTAL POST MOUNTED	4
ACCESSIBLE PEDESTRIAN SIGNAL	
PEDESTAL POST TOP MOUNTED, ONE-WAY	1
PEDESTAL POST TOP MOUNTED, TWO-WAY	2
PEDESTAL POST SIDE-MOUNTED, ONE-WAY	1
CONTROLLER/CABINET	1
OPTICAL VEHICLE PREEMPTION SYSTEM	1
RADIO INTERCONNECT/VIDEO DETECTION SYSTEM	1
RAILROAD PREEMPTION SYSTEM	1
POWER DROP STANCHION	1

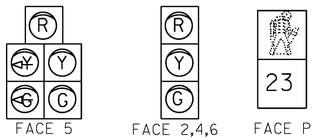
EQUIPMENT	ITEM NO.	UNIT	US 5 (MAIN STREET) @ FLAT STREET	NOTES
WIRED CONDUIT (2") (PVC)	678.23	LF	224'	-
WIRED CONDUIT (2½") (PVC)	678.23	LF	20'	-
ELECTRICAL CONDUIT SLEEVE (8") (PVC)	678.30	LF	94'	-
PULL BOX - STANDARD	678.25	EA	2	-

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. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE NUMBER OF ITEMS AND THE TYPES OF EQUIPMENT REQUIRED.

NOTES:

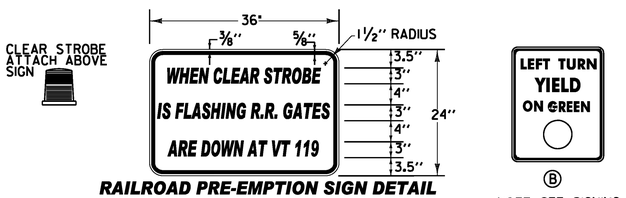
1. OFFSET IS REFERENCED AT THE END OF PHASE 2.
2. SPLITS AND OFFSETS ARE SHOWN IN SECONDS.
3. VIDEO DETECTION AREAS 2, 4, 5 AND 6 ARE IN NON-LOCK PRESENCE MODE.
4. SIGNAL TO COORDINATE WITH MAIN STREET SYSTEM AT ELLIOT STREET (MASTER) BY INTERCONNECT VIA SPREAD SPECTRUM RADIO.
5. ANY PULL BOX OR JUNCTION BOX WITHIN SIDEWALK SHALL HAVE A SKID RESISTANT COVER.
6. SPREAD SPECTRUM RADIO ASSEMBLY TO RECEIVE SIGNAL TO COORDINATE WITH 142/119, ELLIOT STREET, AND ROUTE 9 (HIGH STREET). INSTALL ANTENNA ON MP2A AND REMOTE RADIO IN THE CONRTOLLER CABINET. MASTER RADIO TO BE INSTALLED IN CABINET AT ELLIOT STREET AND A TWO-WAY ANTENNA ON THE MAST ARM. ALL OTHER LOCATIONS IN THE SYSTEM SHALL RECEIVE REMOTE RADIOS AND ANTENNAS.
7. RAILROAD PREEMPTION TO FORCE PHASE 6 AND HOLD UNTIL RELEASED. CABINET TO INCLUDE CONTACT CLOSURE RADIO TO COMMUNICATE WITH THE SIGNAL AT ROUTE 119 AND ROUTE 142.
8. SIGNAL TO INCLUDE VEHICLE IDENTIFYING OPTICAL PRE-EMPT. AND COMMUNICATION SYSTEM. THE SYSTEM INCLUDES AN OPTICAL SIGNAL PROCESSOR, 3 OPTICAL DETECTORS, RED STROBE LIGHT AND APPROX. 235+/- OF DETECTOR CABLE.

SIGNAL FACE ARRANGEMENT 12" LENSES



NOTE:
INCLUDE BACKPLATES ON ALL SIGNAL FACES.

SIGNS

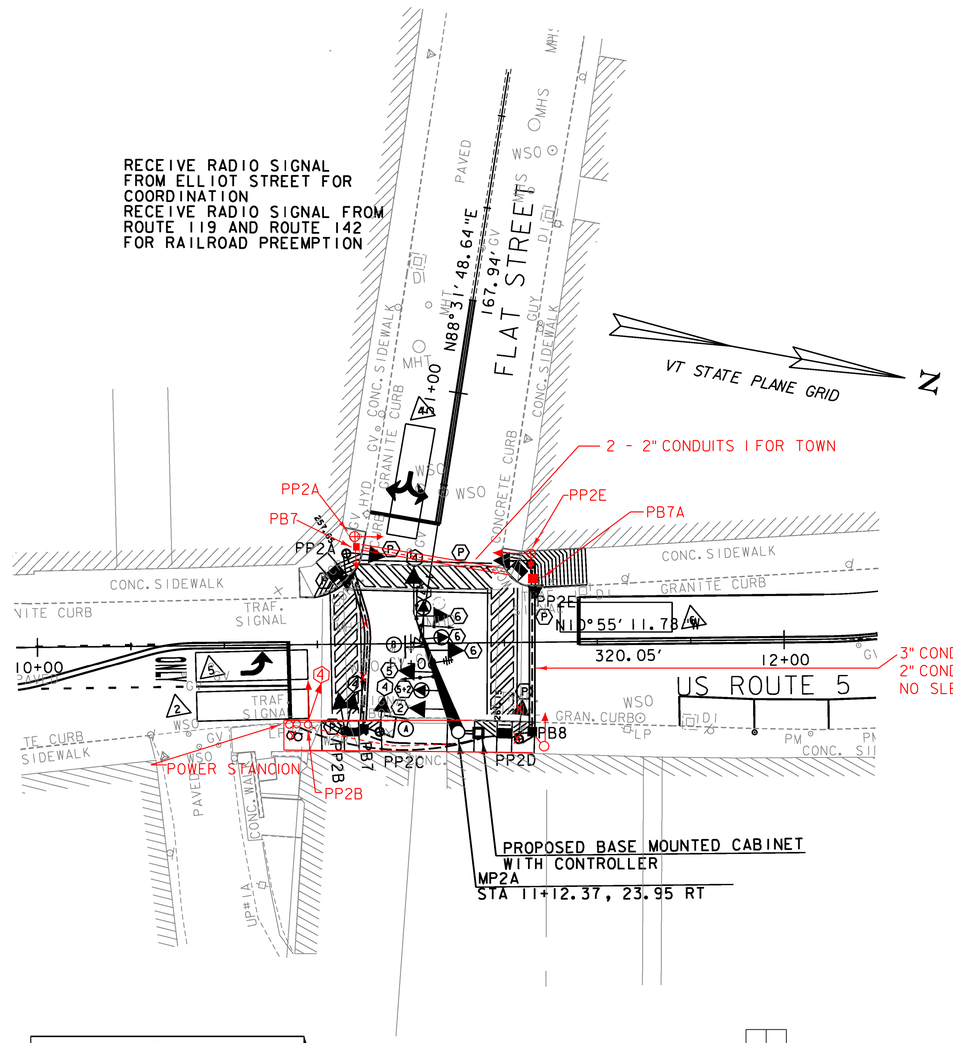


RAILROAD PRE-EMPTION SIGN DETAIL

MATERIALS: SEE STD. E-144
COLORS: TEXT & BORDER - BLACK
BACKGROUND - WHITE (REFL. ENCAPSULATED LENS)
NOT TO SCALE
Ⓐ
NOTE: SEE SIGNING SHEETS FOR ALL OTHER SIGNS.

Ⓑ
NOTE: SEE SIGNING SHEETS FOR ALL OTHER SIGNS.

RECEIVE RADIO SIGNAL FROM ELLIOT STREET FOR COORDINATION
RECEIVE RADIO SIGNAL FROM ROUTE 119 AND ROUTE 142 FOR RAILROAD PREEMPTION



SEE SHEET 157 FOR MAST ARM CROSS SECTION

SEE SHEETS 26-66 FOR PAVEMENT MARKINGS

SEE SHEETS 136-140 FOR SIGNING LAYOUT

ALL SIGNALS WITHIN THE MAIN STREET SIGNAL SYSTEM ARE COORDINATED AND A PART OF THE WIRELESS RADIO INTERCONNECT. SEE SHEETS 150, 152, 153 - TRAFFIC SIGNAL SHEETS NO. 1, 3 AND 4 FOR THE OTHER LOCATIONS.

US 5 (MAIN STREET) @ FLAT STREET

ELECTRICAL CONDUIT SLEEVE (8") (PVC)
PB7A-~~PP2A~~ TO PB7 - ~~46~~'40'
~~PP2E TO PB8 - 48~~'

WIRED CONDUIT (2½") (PVC)
CONTROLLER TO MP2A - ~~10~~'13'
CONTROLLER TO MP2A - ~~10~~'13'

WIRED CONDUIT (2") (PVC)
PB7A
PB7 TO ~~PP2A~~ - ~~50~~'54'
PB7A-~~PB8~~ TO PP2E - ~~47~~' 8'
PB8 TO PP2D - 8'52'
CONTROLLER TO POWER STANCHION ~~54~~'
WIRED CONDUIT (3") (PVC)
PB8 TO PB7A - 45'

WIRED CONDUIT (2") (PVC)
PB2C
CONTROLLER TO ~~PB7~~ - ~~34~~'32'
CONTROLLER TO PB8 - ~~15~~' 26'
PB7 TO PP~~2C~~2A - ~~8~~' 12'
~~PB7~~ TO PP2B - ~~8~~'45'
CONTROLLER POWER STAN TO LIGHT POLE - 37'

0 20 40
SCALE IN FEET

	MID	PM	AM
	60	53	27
	55	50	52

FLAT STREET - 2025

MID	PM	AM
33	22	23
559	604	406

ROUTE 5 - MAIN STREET 2025

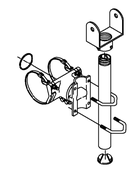
AM	PM	MID
27	27	27
400	569	495

ROUTE 5 - MAIN STREET 2025

2025 HOURLY VOLUMES

CAMERA EXTENSION BRACKET FOR MAST ARM AND MONOTUBE SIGN BRIDGE

N.T.S.



TWO PIECE CAMERA MOUNT
TUBE LENGTHS: 23", 37", 46", OR 74"
BAND LENGTHS: 29", 36", 42", 48", OR 56"

Notes:
All assemblies shall have steel fasteners and stainless steel clamp screw kits.
1 or 2 piece bracket mounts shall be specified for camera type.

EXISTING	NEW	LEGEND
		MAST ARM POLE (MP)
		STRAIN POLE (SP)
		CONTROLLER CABINET
		PULLBOX (PB)/ JUNCTION BOX (JB)
		SIGNAL HEAD
		CONDUIT
		PEDESTAL POST (PP)
		MAST ARM MOUNTED SIGN
		STANCHION
		VIDEO DETECTOR
		VIDEO DETECTION AREA
		OPTICAL DETECTOR
		REMOTE RADIO

PROJECT NAME: BRATTLEBORO
PROJECT NUMBER: STP 2000(24)

FILE NAME: z08d044trfbdr.dgn
PROJECT LEADER: KEN UPMAL
DESIGNED BY: V. KACOYANNAKIS
TRAFFIC SIGNAL SHEET 2

PLOT DATE: 6/27/2011
DRAWN BY: T. BIGELOW
CHECKED BY: J. SOBEL
SHEET 151 OF 163