"THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-344-7233 PRIOR TO ANY EXCAVATION AT LOCATIONS WHICH MAY BE IN THE IMMEDIATE VICINITY OF UNDERGROUND UTILITIES"

SIGNAL LEGEND

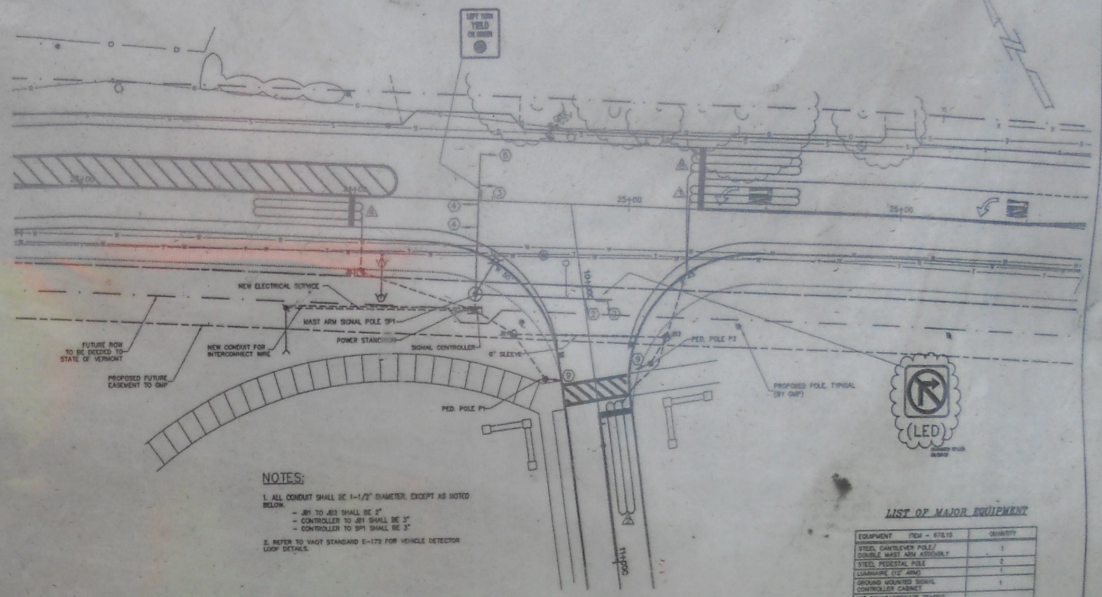
- PVC CONDUIT
- PVC CONDUIT W/ 6" SLEEVE
- PULL BOX / JUNCTION BOX
- TRAFFIC SIGNAL CONTROLLER
- POWER STANCHION
- TRAFFIC SIGNAL HEAD
- MAST ARM SIGNAL POLE
- PEDESTAL POLE
- LUMINAIRE
- QUADRUPOLE VEHICLE DETECTOR LOOP
- RECTANGULAR VEHICLE DETECTOR LOOP

VEHICLE LOOP DETECTORS – ROUTE 2/ELM STREET

LANE	LOOP #	SIZE	TYPE	# TURNS	CHL PHASE	MODE	AMP	LEADING DIRECTION	RESISTANCE (OHM) CALC	RESISTANCE (OHM) MEAS	INDUCTANCE (mH) CALC	INDUCTANCE (mH) MEAS	LEAKAGE TO GROUND (m-Ohm)
NB	A	6x40	QUAD	3	5	PRES	NON-DELAY		384		0.80		
NB-LT	B	6x40	QUAD	3	3+6	PRES	NON-DELAY	333	389		0.85		
SB	A	6x40	QUAD	3	4+6	PRES	NON-DELAY		353		0.75		
SB	B	6x40	QUAD	3	4+6	PRES	NON-DELAY		372		0.90		

NOTES:

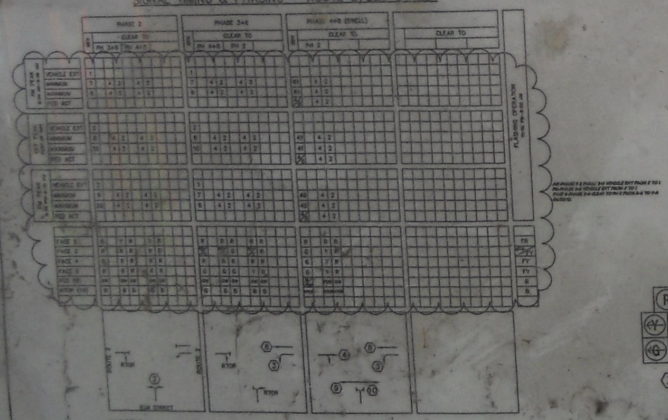
1. ALL CALCULATED VALUES ARE AT THE CONTROLLER.
2. MEASURED VALUES MUST BE FILLED IN PRIOR TO TEST PERIOD.



NOTES:

1. ALL CONDUIT SHALL BE 1-1/2" DIAMETER, EXCEPT AS NOTED BELOW.
   - JB1 TO JB3 SHALL BE 2"
   - CONTROLLER TO JB1 SHALL BE 3"
   - CONTROLLER TO SP1 SHALL BE 3"
2. REFER TO VAOT STANDARD E-172 FOR VEHICLE DETECTOR LOOP DETAILS.

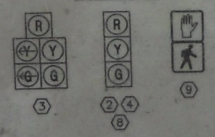
SIGNAL TIMING & PHASING – ROUTE 2/ELM STREET



NOTES:

1. SHOWN (SAME) FLASH/FLASHING DON'T WALK (FLASHING HAND), SHOW DON'T WALK (HAND), B=BLANK.
2. ALL PEDESTRIAN INDICATIONS WILL BE ON WHEN NO PEDESTRIAN ACTUATION.
3. FINAL FIRE PRE-EMPTION SETTINGS TO BE ESTABLISHED IN THE FIELD, IN CONJUNCTION WITH TOWN FIRE DEPARTMENT.
4. NO TURN ON RED SIGN SHALL ILLUMINATE ON ELM STREET CONCURRENTLY WITH PEDESTRIAN SIGNALS.

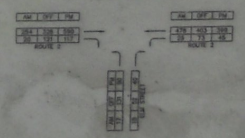
SIGNAL HEADS



NOTES:

1. ALL SIGNAL LAMPS SHALL BE LED (RED, YELLOW, & GREEN).
2. INSTALL BACKPLATES ON ALL SIGNAL HEADS.

2001 AVERAGE VOLUMES ROUTE 2 / ELM STREET



LIST OF MAJOR EQUIPMENT

EQUIPMENT	FDM – 670.15	QUANTITY
STEEL CANTILEVER POLE/ DOUBLE MAST ARM ASSEMBLY		1
STEEL PEDESTAL POLE		1
LUMINAIRE (12' ARM)		1
GROUND MOUNTED SIGNAL CONTROLLER CABINET		1
12" POLYCARBONATE TRAFFIC SIGNAL HEADS WITH TUNNEL VISORS & MOUNTING HARDWARE		
3 SECTION		5
5 SECTION		1
TWO SECTION WALK/DON'T WALK PEDESTRIAN HEADS WITH VISORS & MOUNTING HARDWARE *		2
PEDESTRIAN PUSH BUTTON ASSEMBLY		2
FIRE PREEMPTION DETECTORS		2
PREEMPTION CONFIRMATION STROBE		1
POWER STANCHION		1
LEFT TURN YIELD ON GREEN SIGN		1
NO TURN ON RED SIGN (LED)		1
WIRE, HARDWARE, EQUIPMENT, ETC. TO COMPLETE INSTALLATION		**

* USE 3" LETTERS (3" STANDARD) FOR PHASE 2B/ WIDE OR LESS. USE 4-1/2" LETTERS (3" STANDARD) FOR PHASES OVER 30' WIDE.

** THE QUANTITIES LISTED ABOVE ARE APPROXIMATE AND ARE FURNISHED FOR INFORMATION ONLY. WIRING, HARDWARE CONDUIT WIRE, SIGNAL HARDWARE ETC. ARE REQUIRED TO ENSURE THE A FUNCTIONAL TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE NUMBER OF ITEMS AND THE TYPES OF EQUIPMENT REQUIRED.

RECEIVED
[illegible] – 3 '001
Engineering Construction, Inc.
Colchester, VT 05446

Scale 1" = 20'

DATE	VERSION	REVISED PER VAOT FINAL SIGNAL COMMENTS	BY
06/05/01			JPK
[illegible]	REVISED PER SIGN & [illegible]		[illegible]

DATE	VERSION	REVISED PER VAOT PRELIMINARY COMMENTS	BY
06/06/01		ADDED SIGNAL TIMING & GENERAL REVISIONS	JPK
12/18/00		REVISED PER VAOT FINAL COMMENTS	JPK
10/17/00		REVISED SEWER CROSSING & RELATED MODIFICATIONS	JPK
09/01/00		GENERAL REVISIONS	JPK
[illegible]		REVISED PER VAOT PRELIMINARY COMMENTS	JPK

CLIENT: STARWOOD–CERUZZI, LLC
1720 POST ROAD
FAIRFIELD, CT 06430

PROJECT TITLE: MAPLE TREE PLACE
VT ROUTE 2
PROPOSED IMPROVEMENTS

STATE OF VERMONT — No. 7201 — PROFESSIONAL ENGINEER

DRAWING TITLE: SIGNAL LAYOUT & TIMING PLAN
ROUTE 2 / ELM STREET
~FINAL~

Survey: MRM
Design: JPK
Drawn: RGS/JPK
Checked: RPB
Date: 06/06/01

Donald L. Hamlin Consulting Engineers, Inc.
130 Pearl Street
Essex Junction, Vermont

Scale: 1" = 20'
Job: 99-021
File:
Drawing: S/G-1
ROUTE 2