TRAFFIC SIGNAL NOTES

A. NEW EQUIPMENT

1. ALL SIGNAL HEADS SHALL BE RIGIDLY MOUNTED ON CANTILEVER ARMS AND SHALL BE BLACK POLYCARBONATE. ALL LENSES SHALL BE LED'S AND ALL SIGNAL HEADS SHALL INCLUDE A TERMINAL COMPARTMENT. AND BACKPLATES SHALL BE INCLUDED AS SPECIFIED ON THE PLANS.

2. THE CONTROLLER SHALL BE ECONOLITE BRAND, MODEL ASC/2S-3100 (TS-2 TYPE 2). THE ECONOLITE GROUND MOUNTED CABINET SHALL BE TYPE P44 WITH A BASE EXTENSION.

3. A DISCONNECT BREAKER FOR EACH CIRCUIT SHALL BE INSTALLED IN A RAINPROOF (NEMA 3R) LOCKED CABINET ON A STANCHION. CONSIDER USING OPTION #2 ON STD. E-175.

4. THE CONTROLLER CABINET SHALL BE EQUIPPED WITH A PULL-OUT SHELF CAPABLE OF SUPPORTING A LAPTOP COMPUTER.

B. SIGNAL OPERATION

1. THE SIGNAL SHALL DWELL ON THE VT.78 MOVEMENT (PHASE 2 & 6).

2. THE VT.78 PHASE (2 & 6) SHALL BE USED FOR THE START-UP PHASE FOLLOWING A FLASH OPERATION, IF USED. ALL PHASES WILL START ON ALL RED INDICATION FOR FIVE SECONDS.

C. JUNCTION / PULL BOXES

1. JUNCTION/PULL BOXES ARE DETAILED ON STD E-173. MINIMUM JUNCTION BOX SIZE SHALL BE 18'' X 12'', OR LARGER AS REQUIRED BY THE ELECTRICAL CODE.
2. THE LOGO ON PULLBOXES/JUNCTION BOXES SHALL BE "SIGNAL".
3. POLYMER CONCRETE & REINFORCED FIBERGLASS UL LISTED PULL BOXES SHALL BE INSTALLED WITH HEAVY DUTY COVERS.

D. TRAFFIC SIGNAL CONDUIT

1. ALL TRAFFIC SIGNAL CONDUIT SHALL BE PVC.
2. MINMUM CONDUIT SIZE SHALL BE.
   1-1/2" FOR INTERCONNECT CABLE AND LOOP WIRE.
   2" FOR SHIELED LEAD-IN CABLE, SIGNAL CABLE, POWER CABLE AND OTHERS, UNLESS SPECIFIED OTHERWISE ON THE PLANS.
   SEE CHART ON STD E-172 FOR DESIGN VALUES.

3. THE OPEN CUT FOR BITUMINOUS CONCRETE PAVEMENT AT 14+50 RT - 14+62.8 LT .SIDE ROAD AT ROBIN HOOD DRIVE AND MISSISOQUI STREET REQUIRED TO PLACE THE 8'' ELECTRICAL CONDUIT SLEEVE SHALL BE PERFORMED USING THE VERMONT STANDARD SHEET D-20. A SAWCUT SHALL BE PERFORMED IN THE EXISTING PAVEMENT SURFACE PRIOR TO EXCAVATION. PAYMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 406.25. THE BITUMINOUS CONCRETE PAVEMENT SHALL BE PLACED SUBSEQUENT TO THE INSTALLATION OF THE 8'' ELECTRICAL SLEEVE AND BACKFILL.

4. WHEN CONDUIT IS PLACED BELOW THE ROADWAY OR ACROSS SIDE ROADS, IT SHALL BE PLACED IN A PVC ELECTRICAL CONDUIT SLEEVE, SIZE AS SHOWN ON THE PLANS (8'' MINIMUM).

E. STREET LIGHTING

1. MAST ARMS #1, #2, #3, #4 SHALL HAVE A 250 WATT HIGH PRESSURE SODIUM LUMINAIRE AS SHOWN ON THE PLANS, INSTALLED WITH A 34' +/- MOUNTING HEIGHT ABOVE THE EDGE OF PAVEMENT WITH 15' ARM. THE LUMINAIRE SHALL HAVE THE MEDIUM CUTOFF DISTRIBUTION SHOWN SHEET 23. ARM ORIENTATION IS SHOWN ON SHEET 18,19.
2. PAYMENT IS INCIDENTAL TO ITEM #678.15

F. VEHICLE LOOP DECTECTORS

1. SEE STANDARD E-172. LOOPS SHALL EXTEND 5 FEET AHEAD OF STOP BAR UNLESS OTHERWISE NOTED ON THE PLANS.

G. GENERAL

1. THE CONTRACTORS SHALL ACQUIRE ALL NECESSARY PERMITS AND MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTILITY COMPANY TO PROVIDE A PERMANENT POWER SUPPLY TO THE SIGNAL AND STREET LIGHTING EQUIPMENT. IF APPLICABLE, THE ROUTING OF POWER TO THE INTERSECTION SHALL BE SUCH THAT THE STATE HAS FULL RESPONSIBILITY FROM THE TRANSFORMER THROUGH THE SIGNAL. NO INTERVENING OWNERSHIP/RESPONSIBLITY SHALL BE ALLOWED.
2. AN ID PLAQUE AS DETAILED ON SHEET 23 SHALL BE AFFIXED TO THE CONTROLLER.

LOCATION	WIRED CONDUIT 1½"	WIRED CONDUIT 2"	WIRED CONDUIT 2½"	ELECTRICAL CONDUIT 2"	ELECTRICAL CONDUIT 2½"	DESCRIPTION
POLE @ STA.14+58 RT. TO STANCHION	-	9	-	-	-	POWER •
STANCHION - JBI(2)	-	10	-	-	-	POWER •
JBI(2) - PED. POST 1	-	17	-	-	-	POWER - PED. POST 1
JBI(2) - JB4 (8" PVC ELEC. CONDUIT SLEEVE)	80	80	-	-	-	POWER • LOOP 8
JB4 - MA4	-	15	-	-	-	POWER - SIGNAL
JBI(2) -JB2(2) (8" PVC ELEC. CONDUIT SLEEVE)	73	73	-	-	-	POWER - LOOPS 8 6 1
ER - JB4	8	-	-	-	-	LOOP 8
JBI(2) - MA1	-	5	-	-	-	POWER - SIGNAL
JB2(2) - PED. POST 3	-	5	-	-	-	POWER - PED. POST 3
PED. POST 3 - PED. POST 2	-	23	-	-	-	POWER - PED. POST 2
JB2(2) - CONTROLLER	-	12	-	-	-	POWER •
JB2(2) - CONTROLLER	12	-	-	-	-	LOOPS, 8 6 14R 4 5 2
CONTROLLER - MA2	-	14	-	-	-	POWER - SIGNAL
ER - JBI	5	-	-	-	-	LOOPS 1 6
JB2(2) - JB3 (8" PVC ELEC. CONDUIT SLEEVE)	71	71	-	-	-	POWER LOOPS 2 5
ER - JB2(2)	5	-	-	-	-	LOOPS 4R 4
JB3 - PED. POST 4	-	23	-	-	-	POWER - PED. POST 4
ER - JB3	10	-	-	-	-	LOOP 2 5
JB3 - MA3	-	5	-	-	-	POWER - SIGNAL
FIRE STATION - JBI (PREEMP TO SIGNAL)	-	475	-	-	-	POWER - PREEMPTING
JBI(2) - JB2(2) (PREEMP TO SIGNAL)	-	73	-	-	-	POWER - PREEMPTING
JB2 - CONTROLLER (PREEMP TO SIGNAL)	-	12	-	-	-	POWER - PREEMPTING
SUBTOTALS	264	922	-			
ROUNDING	36	28	-			
TOTALS	300	950	-	-		

NOTE: ER=EDGE OF ROAD
JB= JUNCTION BOX,

EQUIPMENT	ITEM NO.	UNIT	QUANTITY	
ELECTRICAL CONDUIT (2''), PVC	678.21	FT	50	EST.
VEHICLE LOOP DETECTORS	678.22	FT	1150	
WIRED CONDUIT (1-1/2''), PVC	678.23	FT	300	
WIRED CONDUIT (2''), PVC	678.23	FT	950	
ELECTRICAL WIRING	678.24	FT	100	
JUNCTION BOX	678.26	EA	6	
ELECTRICAL CONDUIT SLEEVE (8'')	678.30	FT	250	

LIST OF MAJOR EQUIPMENT	
EQUIPMENT ITEM - 678.15	QUANTITY
SIGNAL POLES W/MAST ARM	4
POWER DROP STANCHION	1
NEW 12" TRAFFIC SIGNAL HEADS W/ TUNNEL VISORS, MOUNTING HARDWARE	
A. ONE-WAY 3-SEC.	7
B. ONE-WAY 3-SEC.W/ARROWS	2
C. ONE-WAY 5-SEC.	1
MISCELLANEOUS EQUIPMENT,HARDWARE, ECT. TO COMPLETE INSTALLATION	
PEDESTRIAN POSTS	4
ADA PEDESTRIAN PUSH BUTTON/SIGN ASSEMBLY	4
PEDESTRIAN AUDIO	4
WALK / DON'T WALK PEDESTRIAN HEAD WITH RELATED MOUNTING HARDWARE	
PED. POST MOUNTED	4
INTERSECTION CONTROLLER/CABINET	1
PRE-EMPTION EQUIPMENT	1
LUMINAIRE & BRACKET ARM (EACH)	3
BACKPLATES	10

NOTE: Back plates to be installed on all heads

TRAFFIC SHEET

PROJECT NAME: SWANTON
PROJECT NUMBER: STPG ST 036-1(11)

FILE NAME: /traf/00bl50/tbl05signal.dgn
PROJECT LEADER: B. NYQUIST
DESIGNED BY: TRAFFIC DESIGN
tbl50slgs5.1

PLOT DATE: 19-APR-2006
DRAWN BY: TRAFFIC DESIGN
CHECKED BY: TRAFFIC DESIGN
SHEET 21 OF 45