

# TRAFFIC SIGNAL NOTES

## A. NEW SIGNAL EQUIPMENT

1. ALL SIGNAL HEADS SHALL HAVE POLYCARBONATE SECTIONS AND LENSES. THE SIGNAL HEADS SHALL HAVE FLAT BLACK HOUSINGS AND VISORS.
2. ALL SIGNAL HEADS SHALL HAVE BLACK LOUVERED BACK PLATES.
3. THE TRAFFIC SIGNAL CONTROLLER AND RELATED EQUIPMENT SHALL BE MANUFACTURED BY ECONOLITE CONTROL PRODUCTS, INC. OR NAZTEC, INC. CONTROLLER SHALL BE (NEMA TS2) IN A NEMA P44 TRAFFIC CONTROL CABINET WITH BASE EXTENSION INSTALLED AT THE LOCATION SHOWN ON TRAFFIC LAYOUT SHEET.
4. ALL SIGNAL HEADS SHALL HAVE RED, YELLOW AND GREEN LED SIGNALS WITH A VISIBLE BEAM SPREAD OF 80 DEGREES OFF AXIS.

## B. SIGNAL OPERATION

1. SWITCH-OVER TO NEW SIGNAL SYSTEM SHALL NOT BE DONE DURING PEAK TRAFFIC PERIODS. UNIFORMED TRAFFIC OFFICERS SHALL CONTROL TRAFFIC DURING SWITCH-OVER.
2. ALL SIGNALS SHALL DWELL ON THE US ROUTE 2 THRU MOVEMENT.
3. THE US ROUTE 2 THRU PHASE SHALL BE USED FOR THE START-UP PHASE FOLLOWING FLASHING OPERATION.
4. SIGNAL TIMING SHOWN ON THE PLANS MAY REQUIRE FINE-TUNING IN THE FIELD BASED ON TRAFFIC OBSERVATION AND/OR ADDITIONAL FIELD STUDIES.

## C. PULLBOXES AND JUNCTION BOXES

1. PULLBOXES AND JUNCTION BOXES ARE DETAILED ON STANDARD E-173. MINIMUM JUNCTION BOX SIZE SHALL BE 450MM x 300MM x 300MM, OR LARGER AS REQUIRED BY THE ELECTRICAL CODE.
2. THE LOGO ON PULLBOXES / JUNCTION BOXES SHALL BE "TRAFFIC SIGNAL"

## D. TRAFFIC SIGNAL CONDUIT

1. ALL TRAFFIC SIGNAL CONDUIT SHALL BE SCHEDULE 80 PVC.

## E. VIDEO DETECTION CAMERAS

1. VIDEO VEHICLE DETECTORS SHALL BE PLACED SO THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.
2. VIDEO VEHICLE DETECTION AREAS SHALL EXTEND 1.5M PAST THE STOP BAR.
3. VIDEO VEHICLE DETECTION SYSTEM SHALL BE ECONOLITE AUTOSCOPE SOLO TERRA OR ITERIS VERSICAM OR TRAFICON VIP SERIES OR APPROVED EQUAL.
4. SEE THE SPECIAL PROVISIONS FOR A DETAILED LIST OF EQUIPMENT.

## F. FIRE PREEMPTION SYSTEM

1. THE FIRE PREEMPTION EQUIPMENT TO BE INSTALLED INSIDE THE CABINET: A WALL CUBE POWER SUPPLY, YAGI ANTENNA, 8.5DB, 900MHZ, LMR400 COAXIAL CABLE, CB-1055, LIGHTING PROTECTION, 1.8M RF JUMPER CABLE, AND A TRANSRECEIVER, SHELF MOUNT.
2. THE FIRE PREEMPTION EQUIPMENT TO BE INSTALLED INSIDE THE FIRE STATION: A WALL CUBE POWER SUPPLY, YAGI ANTENNA, 8.5DB, 900MHZ, LMR400 COAXIAL CABLE, CB-1055, LIGHTING PROTECTION, 1.8M RF JUMPER CABLE, AND A TRANSRECEIVER, MASTER ACTIVATION UNIT 1 SINGLE PUSH BUTTON.
3. THE FIRE PREEMPTION EQUIPMENT SHALL BE PAID FOR UNDER ITEM 678.15 TRAFFIC CONTROL SIGNAL SYSTEM, INTERSECTION, FOR A LIST OF EQUIPMENT SEE TRAFFIC LAYOUT SHEET.
4. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

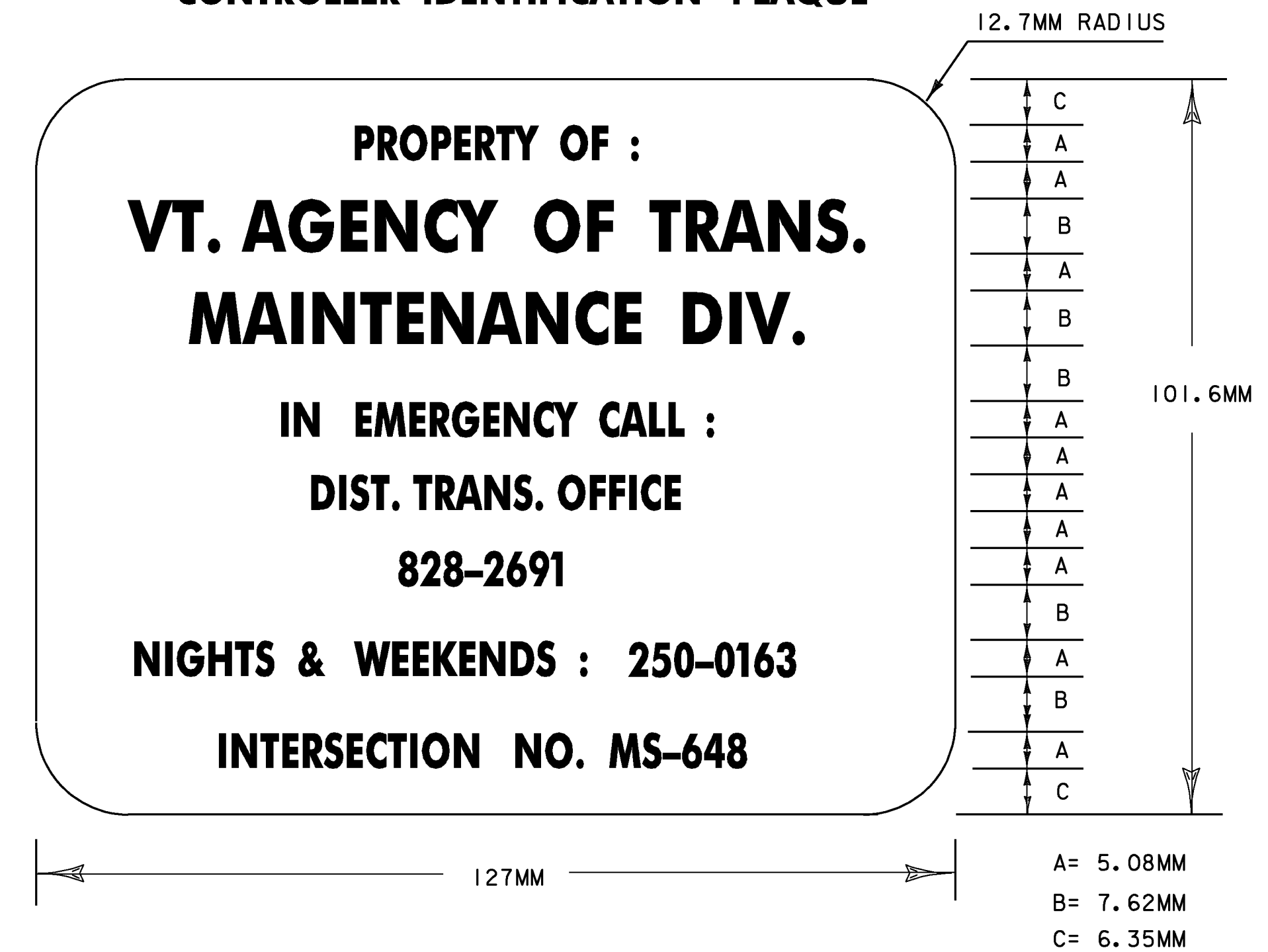
## G. MAST ARM FOUNDATIONS

1. FOUNDATIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE MRE1 10-01 GUIDELINES. THE CONTRACTOR WILL BE RESPONSIBLE FOR SOIL BORINGS AND FOUNDATION DESIGN. IN ADDITION TO FABRICATION DRAWINGS, THE BORING LOGS, DESIGN CRITERIA, AND DESIGN CALCULATIONS SHALL BE SUBMITTED AS WORKING DRAWINGS IN ACCORDANCE WITH SUBSECTION 105.03.

## H. GENERAL

1. A UNIFORMED TRAFFIC OFFICER SHALL DIRECT TRAFFIC WHEN ONE-WAY TRAFFIC EXISTS ON ANY APPROACH.
2. THE CONTRACTOR SHALL ACQUIRE ALL THE NECESSARY PERMITS AND MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTILITY COMPANY TO PROVIDE A PERMANENT POWER SUPPLY TO THE TRAFFIC SIGNAL EQUIPMENT. 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/RESPONSIBILITY SHALL BE ALLOWED.
3. SEE THE PROJECT SPECIAL PROVISIONS FOR INFORMATION AND REQUIREMENTS FOR SALVAGED MATERIALS
4. ALL SIGNAL POLES, PEDESTRIAN POLES, AND CONTROLLER CABINET SHALL BE BLACK FINISH.

## CONTROLLER IDENTIFICATION PLAQUE



LEGEND: - BLACK (NON-REFL.) - STAMPED PRIOR TO PAINTING  
 BACKGROUND: NATURAL ALUMINUM OR BRASS SURFACE

### NOTES:

- 1.) THE PLAQUE SHALL BE MOUNTED ON ALL TRAFFIC SIGNAL CONTROLLER CABINETS. IT SHALL BE FASTENED TO THE CONTROLLER CABINET IN SUCH A MANNER AS TO BE NOT EASILY REMOVED, SUCH AS WELDED, RIVETED OR BOLTED WITH VANDAL PROOF BOLTS.
- 2.) THE LETTERS SHALL BE PUNCHED OR STAMPED, SUCH STAMPING SHALL PENETRATE AT LEAST 1#2 THE BASE MATERIAL THICKNESS.
- 3.) THE BASE MATERIAL FOR THE PLAQUE SHALL BE BRASS OR ALUMINUM WITH A MINIMUM THICKNESS OF 2.54MM.

PROJECT NAME: EAST MONTPELIER  
 PROJECT NUMBER: STPG 028 - 3(35)S

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 TRAFFIC SIGNAL NOTES

PLOT DATE: 22-MAR-2010  
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