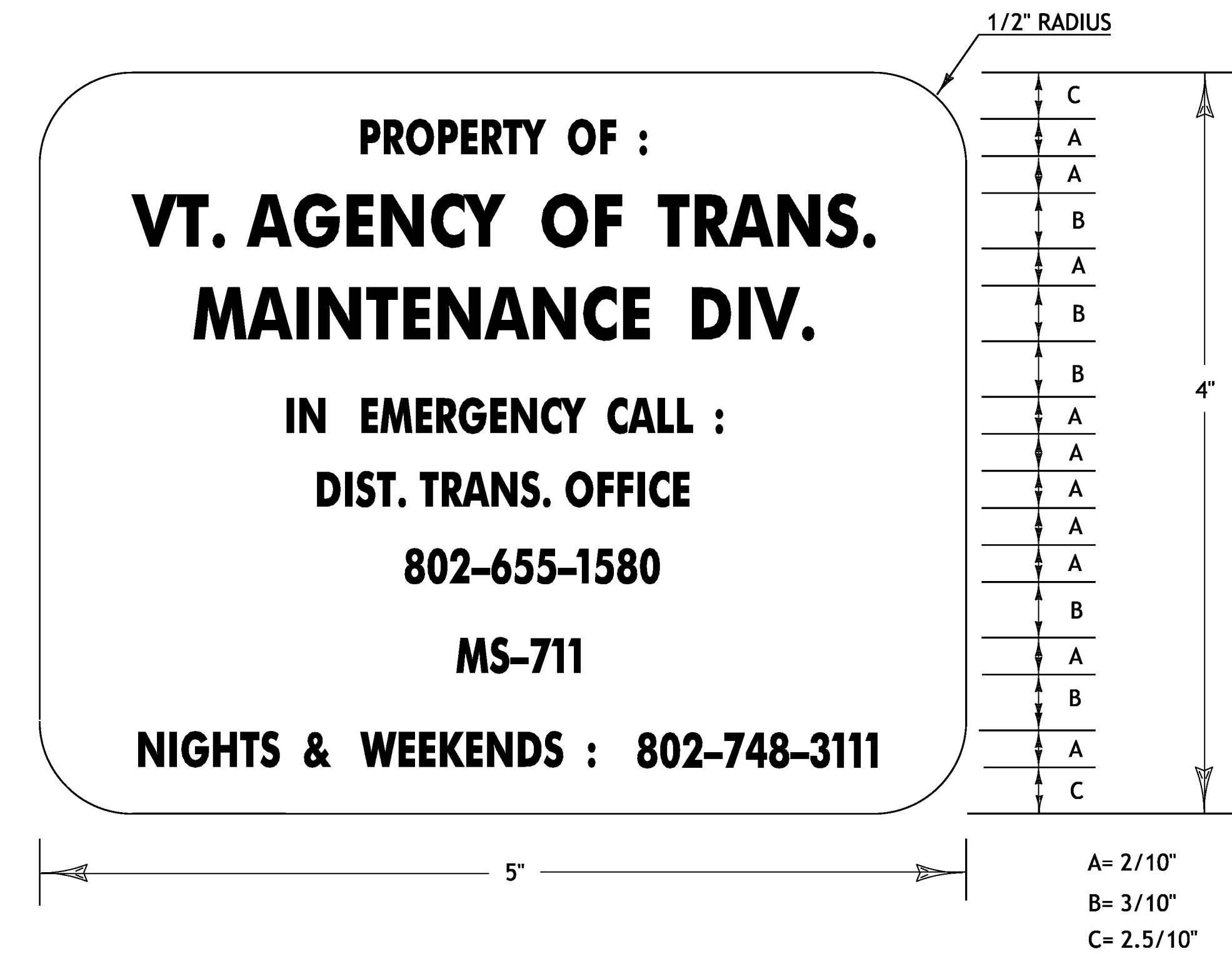


TRAFFIC SIGNAL SYSTEM NOTES

- A. NEW SIGNAL EQUIPMENT**
- ALL SIGNAL HEADS SHALL HAVE 12" POLYCARBONATE. THE SIGNAL HEADS EQUIPMENT SHALL BE FLAT BLACK AND INCLUDE FLAT BLACK VISORS.
 - ALL SIGNAL HEADS SHALL HAVE FLAT BLACK LOUVERED BACK PLATES WITH A 2-INCH RETROREFLECTIVE TAPE BORDER.
 - ALL SIGNAL HEADS SHALL HAVE RED, YELLOW AND GREEN LED. INDICATORS WITH A VISIBLE SPREAD OF 80 DEGREES OFF AXIS.
 - ALL SIGNAL HEADS SHALL BE MOUNTED ON THE BRACKET SUCH THAT THE MIDDLE ONE-THIRD OF THE SIGNAL HEAD ALIGNS WITH THE MAST ARM.
 - THE TRAFFIC SIGNAL CONTROLLER SHALL BE AN ECONOLITE COLBALT (NEMA TS2 TYPE 2) IN A NEMA P44 TRAFFIC SIGNAL CONTROL CABINET WITH A 15-INCH BASE EXTENSION INSTALLED AT THE LOCATION SHOWN ON THE TRAFFIC LAYOUT PLAN. THE CABINET AND BASE EXTENSIONS SHALL BE BLACK.
 - THE TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE ORIENTED SUCH THAT THE DOOR DOES NOT FACE THE ROADWAY.
 - RELATED TRAFFIC SIGNAL EQUIPMENT SUCH AS THE BUS INTERFACE UNIT (BIU) AND THE MALFUNCTION MANAGEMENT UNIT (MMU) SHALL BE ECONOLITE BRAND.
 - ALL SIGNAL EQUIPMENT AND SIGNS MOUNTED ON CANTILEVERED MAST ARM SHALL HAVE SAFETY CABLES.
 - A DISCONNECT BREAKER FOR EACH CIRCUIT SHALL BE INSTALLED IN A RAINPROOF (NEMA 3R), LOCKED CABINET ON A STANCHION NEXT TO OR BELOW THE METER SOCKET. IF STREET LIGHTING IS PRESENT, THE TRAFFIC SIGNAL CIRCUITS MUST BE SEPARATE FROM THE STREET LIGHTING CIRCUITS.
- B. TRAFFIC SIGNAL OPERATION**
- SIGNAL TIMING SHOWN ON THE PLANS MAY REQUIRE FINE-TUNING IN THE FIELD BASED ON TRAFFIC OBSERVATION AND/OR ADDITIONAL FIELD STUDIES.
 - SWITCH-OVER TO INSTALLED SIGNAL SYSTEM SHALL NOT OCCUR DURING PEAK TRAFFIC OPERATING PERIODS. UNIFORMED TRAFFIC OFFICERS SHALL CONTROL TRAFFIC DURING SWITCH-OVER.
 - ALL SIGNALS SHALL DWELL ON THE US ROUTE 5 THRU MOVEMENT.
 - THE US ROUTE 5 THRU PHASE SHALL BE USED FOR THE START-UP PHASE FOLLOWING FLASHING OPERATION.
- C. VEHICLE DETECTION**
- ALL VEHICLE DETECTORS SHALL HAVE FLAT BLACK HOUSINGS.
 - STOP BAR VEHICLE DETECTOR LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE MANUFACTURER'S GUIDANCE FOR THE TYPE OF DETECTOR SUPPLIED. THE CONTRACTOR SHALL SUBMIT PROPOSED MOUNTING LOCATIONS AND DOCUMENTATION OF CONFORMANCE WITH THE MANUFACTURER'S GUIDANCE TO THE ENGINEER.
 - ALL VEHICLE DETECTORS SHALL BE PLACED SUCH THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT NEGATIVELY AFFECTED.
 - STOP BAR VEHICLE DETECTION ZONES SHALL EXTEND FIVE FEET PAST THE FINAL, PERMANENT STOP BAR.
 - THERE SHALL BE NO WIRING SPLICES BETWEEN THE VEHICLE DETECTORS AND THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT.
 - VEHICLE DETECTION SYSTEM SHALL BE WAVETRONIX MATRIX/SMART SENSOR BRAND.
 - SEE THE PLANS OR THE SPECIAL PROVISIONS FOR A DETAILED LIST OF EQUIPMENT.
- D. MAST ARM POLE FOUNDATIONS**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOUNDATION DESIGN. FOUNDATIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE MREI 10-01 GUIDELINES. IN ADDITION TO FABRICATION DRAWINGS, THE BORING LOGS DESIGN CRITERIA, AND DESIGN CALCULATIONS SHALL BE SUBMITTED AS WORKING DRAWINGS IN ACCORANCES WITH SECTION 105.03. ADDITIONAL REQUIREMENTS CAN BE FOUND IN THE TRAFFIC SIGNAL GENERAL NOTES IN THIS PLAN SET.
- E. JUNCTION BOXES**
- THE LOGO ON JUNCTION BOXES SHALL BE "TRAFFIC SIGNAL".
- F. TRAFFIC SIGNAL CONDUIT**
- WHEN CONDUIT IS PLACED BELOW THE ROADWAY OR ACROSS SIDE ROADS, IT SHALL BE PLACED IN A STEEL OR HDPE SLEEVE, SIZE AND PAYMENT METHOD AS SHOWN ON THE PLANS.
 - ALL UNUSED CONDUIT SHALL BE FILLED WITH STEEL WOOL PRIOR TO BEING CAPPED.
 - ALL TRAFFIC SIGNAL CONDUIT WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 678.

- G. SIGNAL STRUCTURE FOUNDATIONS**
- FOUNDATIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE MREI 10-01 GUIDELINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOUNDATION DESIGN. IN ADDITION TO FABRICATION DRAWINGS, THE BORING LOGS, DESIGN CRITERIA, AND DESIGN CALCULATIONS SHALL BE SUBMITTED AS WORKING DRAWINGS IN ACCORDANCE WITH SECTION 105.03. ADDITIONAL DESIGN REQUIREMENTS CAN BE FOUND IN THE TRAFFIC SIGNAL GENERAL NOTES IN THIS PLAN SET. FOUNDATIONS FOR DUAL USE OVERHEAD STRUCTURES FOR RAILROAD AND TRAFFIC SIGNALS SHALL BE DRILLED SHAFT TO AVIOD EXISTING UNDERGROUND UTILITIES.
- H. GENERAL**
- A UNIFORMED TRAFFIC OFFICER WITH A BLUE LIGHT SHALL BE PRESENT DURING ALL LANE CLOSURES.
 - 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, IF APPLICABLE. THE ROUTING OF POWER TO THE INTERSECTION SHALL BE SUCH THAT THE AGENCY OF TRANSPORTATION HAS FULL RESPONSIBILITY FROM THE TRANSFORMER THROUGH THE TRAFFIC SIGNAL SYSTEM. NO INTERVENING OWNERSHIP OR RESPONSIBILITY SHALL BE ALLOWED.
 - THE CONTRACTOR SHALL RETURN ANY SALVAGED SIGNS TO THE VAOT DISTRICT 7 OFFICE PRIOR TO PROJECT COMPLETION. COORDINATE THROUGH KEVIN GADAPEE AT 802-748-6670.
 - ALL ELECTRICAL WIRING SHALL BE DONE BY A LICENSED ELECTRICIAN AND OVERSEEN BY A MASTER ELECTRICIAN.



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

CONTROLLER IDENTIFICATION PLAQUE

CONTROLLER IDENTIFICATION PLAQUE NOTES

- 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.
- THE LETTERS SHALL BE PUNCHED OR STAMPED, SUCH STAMPING SHALL PENETRATE AT LEAST 1/2 THE BASE MATERIAL THICKNESS.
- THE BASE MATERIAL FOR THE PLAQUE SHALL BE BRASS OR ALUMINUM WITH A MINIMUM THICKNESS OF 0.100 INCHES.

CLD 13-0194



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PROJECT NUMBER:	STPG SGNL(48)
FILE NAME:	z16d054trf.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	P. KONIECZKA
TRAFFIC SIGNAL SYSTEM NOTES	
PLOT DATE:	1/9/2017
DRAWN BY:	S. GOODWIN
CHECKED BY:	L. GREER
SHEET	13 OF 18