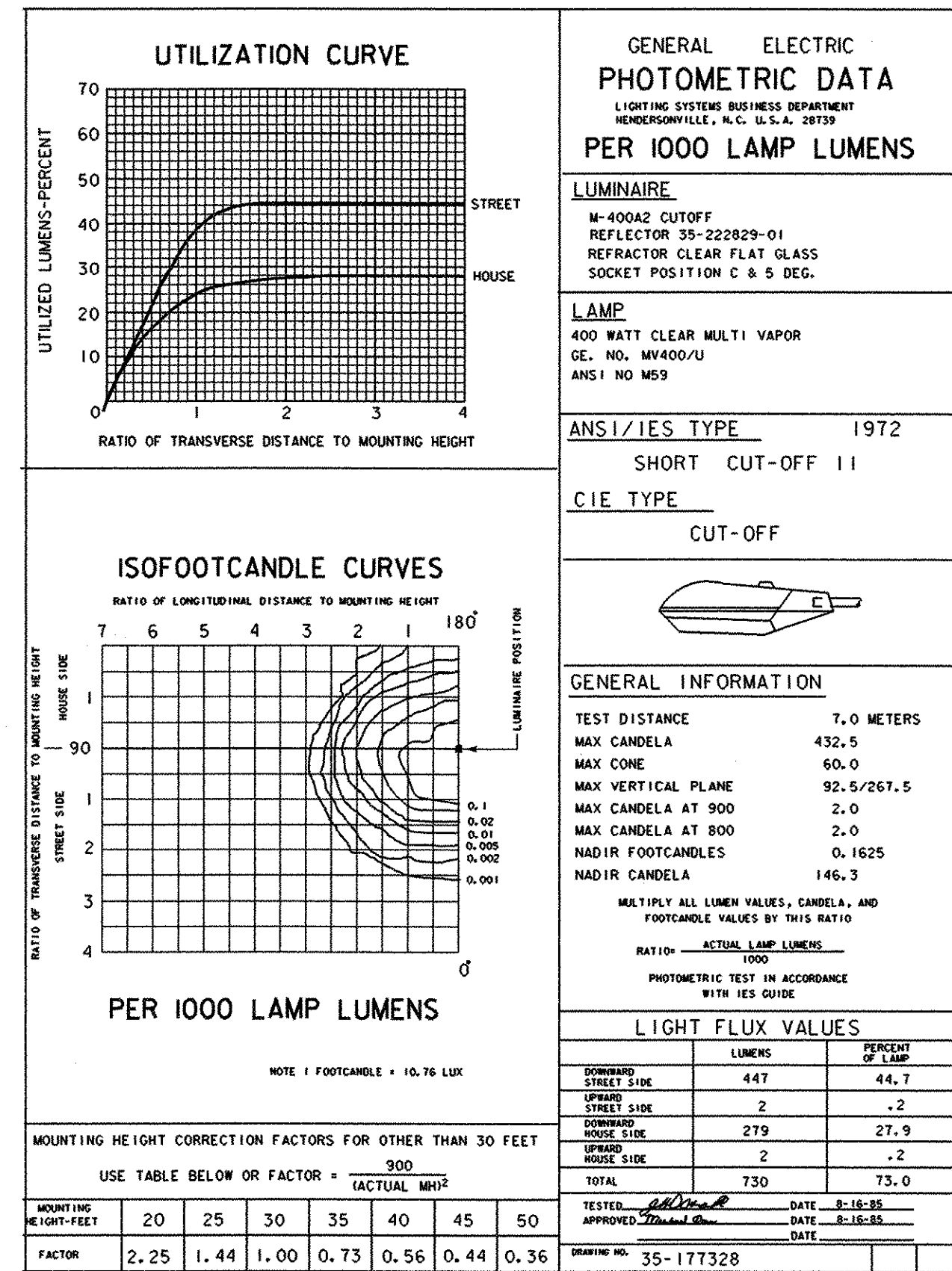


GENERAL STREET LIGHT NOTES



CONCRETE BASES

THE OFFSET FOR CONCRETE BASES (EDGE OF SHOULDER TO CENTER OF CONCRETE BASE) TO BE A MINIMUM OF 1.8 m OR AS OTHERWISE NOTED ON THE PLANS.

WHEN CONCRETE BASES ARE INSTALLED IN SLOPING GROUND, THE GREATEST EXPOSED HEIGHT TO KEEP ALL OF THE TOP ABOVE GROUND MUST BE DOUBLED AND THEN ADDED TO THE MINIMUM DEPTH FOR THE TOTAL BASE DEPTH.

CARE SHOULD BE TAKEN WHERE CONCRETE BASES, DRAINAGE STRUCTURES OR UTILITIES ARE CLOSE TOGETHER.

POLES, ANCHOR BASES AND ARMS

ALUMINUM STREET LIGHT POLE SHAFT WALL THICKNESS SHALL BE AS NOTED IN THE SPEC. BOOK OR ON STANDARD SHEETS OR WILL BE GOVERNED BY MOUNTING HEIGHTS, ARM LENGTH, NUMBER OF ARMS AND LUMINAIRE WEIGHT AND EPA, = EFFECTIVE PROJECTED AREA.
ALL NEW STREET LIGHT POLES AND LUMINAIRE ARMS SHALL BE ALUMINUM IN ACCORDANCE WITH SUBSECTION 753.01 (B).

ALL STREET LIGHT POLES SHALL HAVE A FRANGIBLE OR BREAKAWAY DEVICE (TRANSFORMER BASE, UNLESS OTHERWISE NOTED ON THE PLANS) BETWEEN THE POLE BASE AND CONCRETE BASE.

WHEN A TRANSFORMER BASE IS TO BE INSTALLED AS THE BREAKAWAY FEATURE IT SHALL HAVE EITHER A 3.2 mm THICK PREFORMED FABRIC BEARING PAD OR A COATING OF ALUMINUM IMPREGNATED CAULKING COMPOUND PLACED BETWEEN THE TOP OF THE CONCRETE POLE BASE AND THE BOTTOM OF THE ALUMINUM TRANSFORMER BASE.

LUMINAIRES

INSTALL METAL HALIDE LUMINAIRES AT ALL LOCATIONS. LIGHT DISTRIBUTION IS BASED ON GENERAL ELECTRIC PHOTOMETRIC DATA DRAWINGS #35-177328, SHORT CUT-OFF, TYPE II DISTRIBUTION, DATED 3-26-85, AND #35-177299, SHORT CUT-OFF, TYPE II DISTRIBUTION, DATED 3-26-85.

THE ABOVE PHOTOMETRIC DATA DRAWINGS WERE USED FOR DESIGN PURPOSES ON THIS PROJECT. OTHER MANUFACTURER'S PRODUCTS MAY BE SUBSTITUTED IF THE INSTALLED LUMINAIRE LIGHT UTILIZATION AND MINIMUM LUX ON THE ROADWAY, SHOULDER AND SIDEWALK ARE AT LEAST AS GREAT AS THAT INDICATED BY THE TWO PHOTOMETRICS.

CONDUIT

A 50 mm (I.D.) MINIMUM CONDUIT SHALL BE USED AT ALL LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS, ALL CONDUIT SHALL BE AT LEAST (SCHEDULE 40 P.V.C.) OR RIGID GALVANIZED STEEL ELECTRICAL CONDUIT (AND CONFORM TO THE REQUIREMENTS OF UL-6), TYPE OF CONDUIT (P.V.C. OR STEEL) SHALL BE NOTED ON THE PLANS.

CONDUIT SLEEVE

MINIMUM WALL THICKNESS FOR RIGID PLASTIC PIPE SLEEVES SHALL BE 1/35TH THE DIAMETER. ALL CONDUIT RUNS UNDER THE ROADWAY SHALL BE INSTALLED IN RIGID PLASTIC OR STEEL PIPE SLEEVES. THE SLEEVE SHALL EXTEND TO WITHIN .61 m OF THE SIDE OF A CONCRETE BASE OR PULLBOX. WHERE NO CONCRETE BASE OR PULLBOX IS PRESENT, THE SLEEVE SHALL EXTEND 1.2 m BEYOND THE OUTSIDE EDGE OF SHOULDER OR FACE OF CURB. BACK-FILLING AROUND A SLEEVE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

WHEN JACKING A SLEEVE UNDER A ROADWAY IT SHALL BE STEEL WITH A MINIMUM DIAMETER OF 200 mm AND MINIMUM WALL THICKNESS OF 10 mm. ACTUAL LENGTH TO BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

WIRE

ALL WIRING BETWEEN THE METER AND/OR POWER SOURCE AND THE FIRST POLE AND/OR PULLBOX AND BETWEEN POLES AND/OR PULLBOXES SHALL BE COPPER AND SIZED AS SPECIFIED ON THE PLANS. ALL WIRE SHALL HAVE TYPE XHHW INSULATION OR EQUIVALENT.

GROUNDING

ALL CONDUIT MUST INCLUDE A GROUNDING CONDUCTOR. RIGID STEEL CONDUIT SHALL BE PROPERLY CONNECTED AT THE JOINTS SO AS TO BE WATERTIGHT AND MAINTAIN ELECTRICAL CONTINUITY AND HAVE GROUNDING BUSHINGS SO AS TO ACT AS A GROUND CONDUCTOR.

PULLBOXES

FOR DETAILS SEE STANDARD SHEET E-173M.

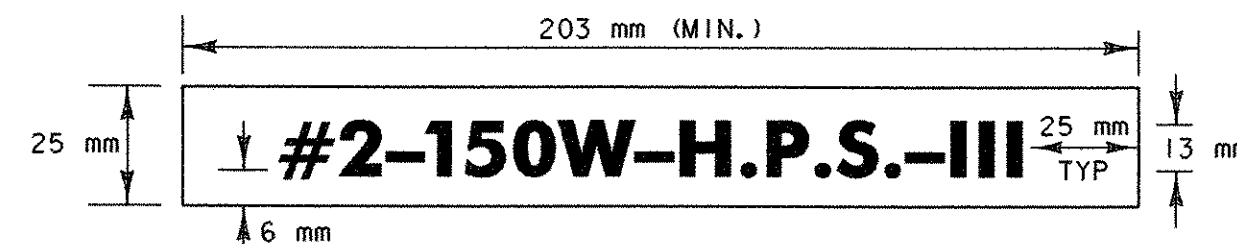
GENERAL

THE LOAD ON EACH BRANCH OF A THREE WIRE CIRCUIT SHALL BE AS BALANCED AS POSSIBLE, LOAD TO NEUTRAL.

THE LAST CONCRETE POLE BASE AT THE END OF EACH CIRCUIT AND SOME PULLBOXES SHALL HAVE A CONDUIT SWEEP WITH CAP INSTALLED FOR FUTURE USE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY ELECTRICAL PERMITS.

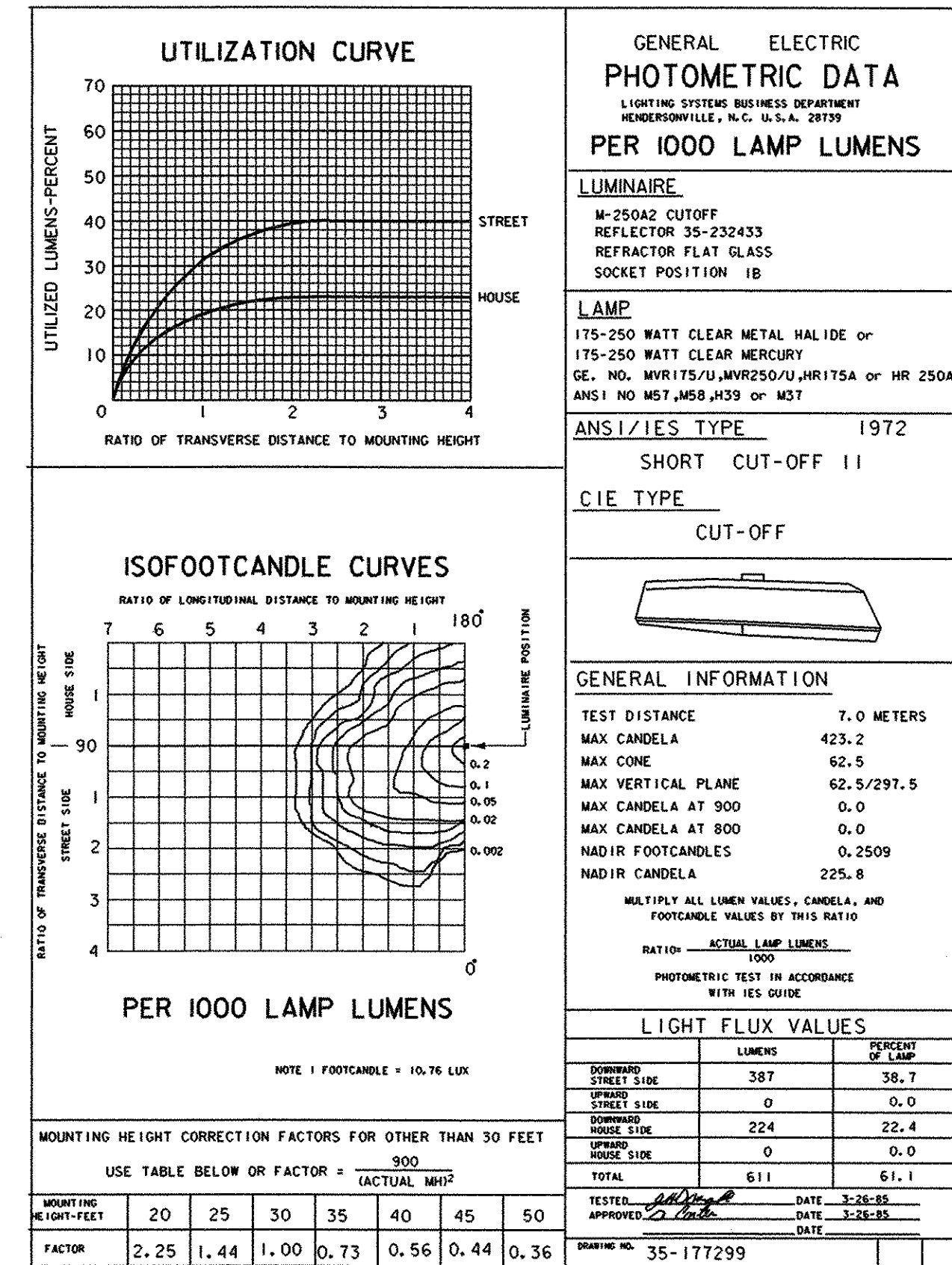
DETAILS FOR TAGS ATTACHED TO STREET LIGHT POLES



LEGEND: BLACK OR WHITE (NON-REFL.)-STAMPED PRIOR TO PRINTING/PAINTING.
BACKGROUND: NATURAL ALUMINUM OR FLAT BLACK SURFACE, SAME AS POLE FINISH.

NOTES:

1. THE TAG SHALL BE MOUNTED ON ALL STREET LIGHT POLES IN SUCH A MANNER AS NOT TO BE EASILY REMOVED, SUCH AS WELDED, RIVETED, OR BOLTED WITH VANDAL PROOF BOLTS.
2. THE LETTERS SHALL BE PUNCHED, STAMPED, ENGRAVED, OR PHOTO-ETCHED. PUNCHING, STAMPING OR ENGRAVING SHALL PENETRATE AT LEAST 1/2 THE BASE MATERIAL THICKNESS.
3. THE BASE MATERIAL FOR THE TAG SHALL BE ALUMINUM WITH A MINIMUM THICKNESS OF 2.54 mm.
4. THE TAG SHALL BE ATTACHED TO THE POLE ABOVE THE HANDHOLE, 150mm MAXIMUM. IF THE POLE HAS A TRANSFORMER BASE, ATTACH TAG TO COVER.



DATUM
VERTICAL _____
HORIZONTAL _____

PROJECT: BRATTLEBORO	PROJECT NO.: NH 2000(18)
DESIGN FILE NAME: <i>zsdg293d91zdd91tr2.dgn</i>	PLOT DATE: 8-APR-1999
IPARM FILE NAME: <i>dd91sllj</i>	SURVEY DATE:
SQUAD LEADER: MENARD	DRAWN BY: SQUAD_C
SHEET: 48 OF 67	