

STREET LIGHTING GENERAL NOTES

A. CONCRETE BASES

1. 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.
2. CARE SHOULD BE TAKEN WHERE CONCRETE BASES, DRAINAGE STRUCTURES OR UTILITIES ARE CLOSE TOGETHER.
3. THE OFFSET FOR CONCRETE BASES (FACE OF CURB OR EDGE OF PAVEMENT TO CENTER OF CONCRETE BASE) SHALL BE A MINIMUM OF 2'-6" OR AS OTHERWISE NOTED ON THE PLANS.

B. POLES, ANCHOR BASES AND ARM

1. ALL NEW STREET LIGHTING EQUIPMENT SHOULD BE ALUMINUM, PAINTED FLAT BLACK TO MATCH THE TRAFFIC SIGNAL EQUIPMENT.
2. ALL STREET LIGHT POLES SHALL HAVE A FRANGIBLE OR BREAKAWAY DEVICE (TRANSFORMER BASE, UNLESS NOTED ON THE PLANS).
3. UTILIZE APPROVED DUAL-RATED PARALLEL TAP CONNECTOR WITH INSULATING COVER TO TAPS AT POLE BASES.

C. LUMINAIRES

1. LUMINAIRES SHALL BE L.E.D. TYPE.
2. POLE-MOUNTED LUMINAIRES SHALL BE ONE OF THE FOLLOWING:
 - BETA LEDWAY IP SERIES
 - HOLOPHANE LEDgends SERIES
 - LRL LED #SAT-96M SERIES
3. ALL POLE-MOUNTED LUMINAIRES SHALL BE SAME, A MIX OF FIXTURES WILL NOT BE ALLOWED. NO LUMINAIRE SUBSTITUTIONS SHALL BE ALLOWED.
4. ALL POLE-MOUNTED LUMINAIRES MUST BE EQUIPPED WITH BIRD SPIKES ON THE TOP.
5. ALL LUMINAIRE HOUSINGS SHALL BE PAINTED FLAT BLACK.

D. WIRE

1. 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 SIZE AS SPECIFIED ON THE PLANS. ALL WIRE SHALL HAVE TYPE XHHW INSULATION OR EQUIVALENT.
2. CIRCUIT CONDUCTORS SHALL BE CLEARLY IDENTIFIED BY CORROSION RESISTANT TAGS INDICATING CIRCUIT NUMBER AND PANEL SOURCES AT EVERY POLE BASE AND HANDHOLE.

F. GROUNDING

1. ALL CONDUITS 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 GROUNDING CONDUCTOR.
2. THE GROUNDING CONDUCTOR SHALL BE CONTINUOUS.
3. ALUMINUM WIRE SHALL NOT BE USED FOR GROUND WIRE.

G. PULLBOXES AND HANDHOLES

1. POLYMER CONCRETE AND REINFORCED FIBERGLASS U.L. LISTED PULLBOXES AND HANDHOLES SHALL BE INSTALLED WITH HEAVY DUTY COVERS.
2. ALL CONNECTIONS IN HANDHOLES SHALL BE MADE WITH INSULATED WATERPROOF MECHANICAL SCREW-TYPE CONNECTOR SUITABLE FOR DIRECT BURIAL. NO BARE OR COMPRESSION TYPE CONNECTORS MAY BE USED.
3. THE LOGO ON PULLBOX COVER SHALL BE "LIGHTING".

H. GENERAL

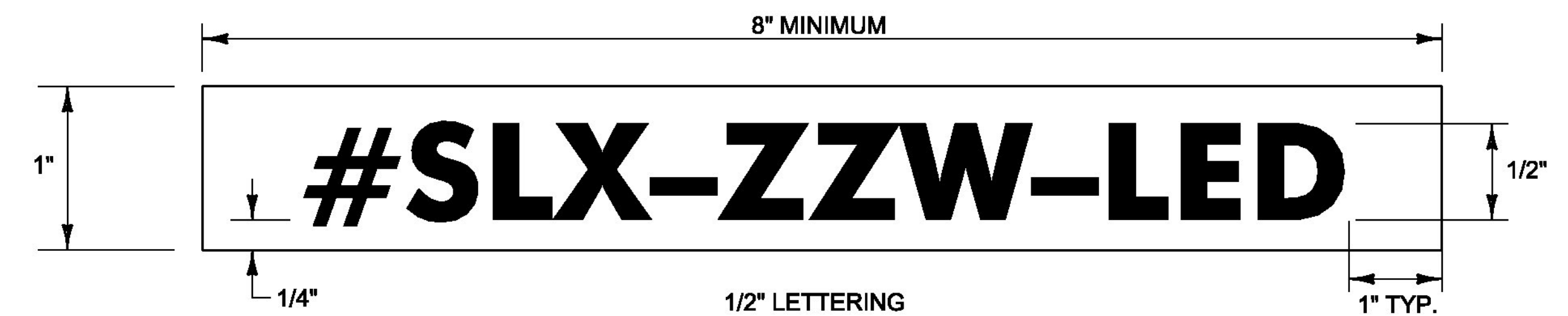
1. THE LOAD ON EACH BRANCH OF A THREE WIRE CIRCUIT SHALL BE AS BALANCED AS POSSIBLE. LOAD TO NEUTRAL.
2. THE CONTRACTOR SHALL ACQUIRE ALL NECESSARY PERMITS AND MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTILITY COMPANY TO PROVIDE A PERMANENT POWER SUPPLY TO THE STREET LIGHTING SYSTEM. IF APPLICABLE, THE ROUTING OF POWER TO THE SYSTEM SHALL BE SUCH THAT THE AGENCY OF TRANSPORTATION HAS FULL RESPONSIBILITY FROM THE TRANSFORMER THROUGH THE LIGHTING SYSTEM. NO INTERVENING OWNERSHIP OR RESPONSIBILITY SHALL BE ALLOWED.
3. ALL CONNECTING HARDWARE (NUTS, BOLTS, ETC.) SHALL BE STAINLESS STEEL UNLESS REQUIRED TO BE OTHERWISE BY CODE.
4. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS' LABORATORIES AND SHALL BE INSTALLED IN ACCORDANCE WITH SUCH LISTINGS.
5. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL CODES, REGULATIONS AND REQUIREMENTS OF ALL MUNICIPAL, STATE, FEDERAL AND OTHER PUBLIC OR PRIVATE AUTHORITIES WHICH HAVE JURISDICTION. IN EACH CASE, CODES ARE MINIMUM REQUIREMENTS.

I. ILLUMINATION REQUIREMENTS

1. AT INTERSECTIONS, LIGHTING LEVELS AS MEASURED AT THE ROADWAY SURFACE SHALL HAVE AN AVERAGE MAINTAINED ILLUMINANCE OF 1.3 FOOT-CANDLES.

J. POWER CYCLES AND PHOTOELECTRICS

1. EACH STREET LIGHT SHALL BE CONTROLLED BY A SINGLE PHOTOEYE.



LEGEND: BLACK OR WHITE (NON-REFLECTIVE) - STAMPED PRIOR TO PRINTING/PAINTING. BACKGROUND: NATURAL ALUMINUM OR FLAT BLACK SURFACE, THE 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 0.10 INCHES.
4. THE TAG SHALL BE ATTACHED TO THE POLE ABOVE THE HANDHOLE, 6 INCHES MAXIMUM, IF THE POLE HAS A TRANSFORMER BASE, ATTACH TAG TO COVER.
5. FIXTURE TAG CHARACTER "X" SHALL BE THE DESIGNATED SL NUMBER AS SHOWN ON THE LIGHTING PLANS.
6. FIXTURE TAG CHARACTER "ZZ" SHALL BE THE WATTAGE OF THE LUMINAIRE

DETAIL FOR TAGS ATTACHED TO STREET LIGHT POLES

NOT TO SCALE

PROJECT NAME: FERRISBURGH
PROJECT NUMBER: NHG SCNL(42)

FILE NAME: t13b016frm.dgn PLOT DATE: 3/2/2016
PROJECT LEADER: I. DEGUTIS DRAWN BY: I. DEGUTIS
DESIGNED BY: I. DEGUTIS CHECKED BY: P. COBURN
STREET LIGHTING DETAILS & NOTES SHEET 22 OF 22