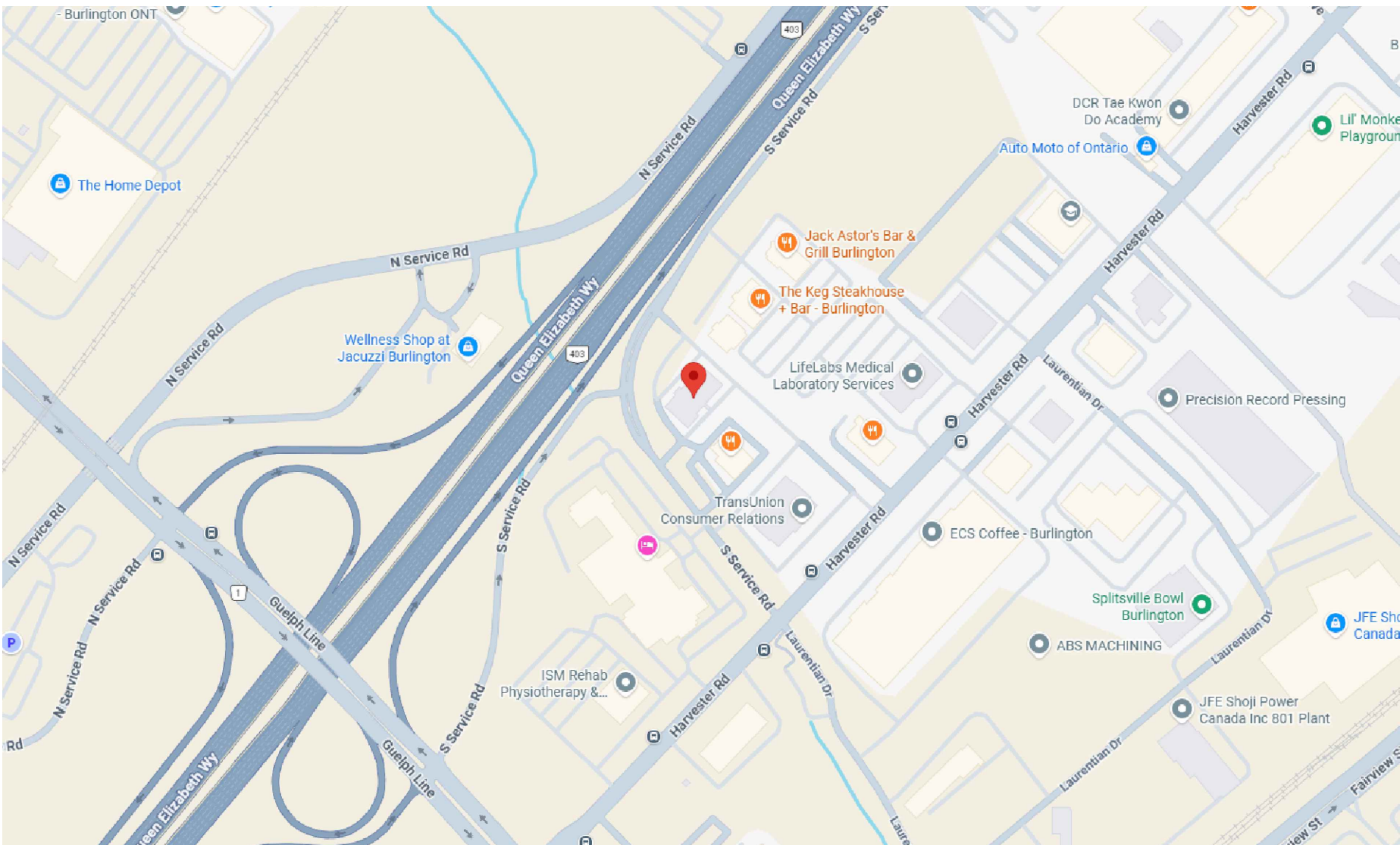


# OUTDOOR LIGHTING PHOTOMETRIC LAYOUT FOR PROPOSED DATA CENTER LOCATED AT 3110 S SERVICE ROAD, BURLINGTON



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MARKHAM, L3R 6G2    (647) 877 4787

PROJECT LOCATION MAP



**IMPORTANT NOTES:**

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CONTRACTOR TO CAREFULLY EXAMINE SITE AS WELL AS EXISTING SERVICES (IF ANY) AND NOTIFY DESIGNER ABOUT ANY CHANGES AND/OR DISCREPANCIES BEFORE INSTALLATION.

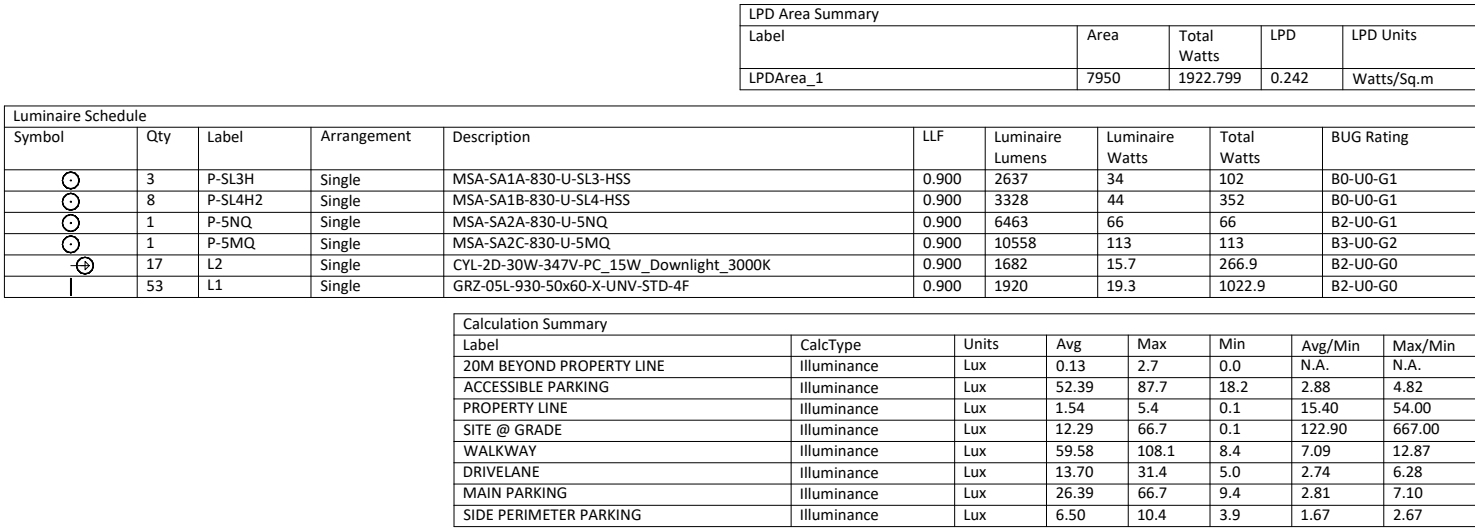
DRAWINGS ARE NOT TO BE SCALED; REFER TO ARCHITECTURAL DRAWINGS FOR ALL MEASUREMENTS.

LOCATION OF EQUIPMENT ARE APPROXIMATE AND MUST COORDINATED WITH OTHER TRADES, OWNER, BUILDER, AND ARCHITECT BEFORE INSTALLATION.

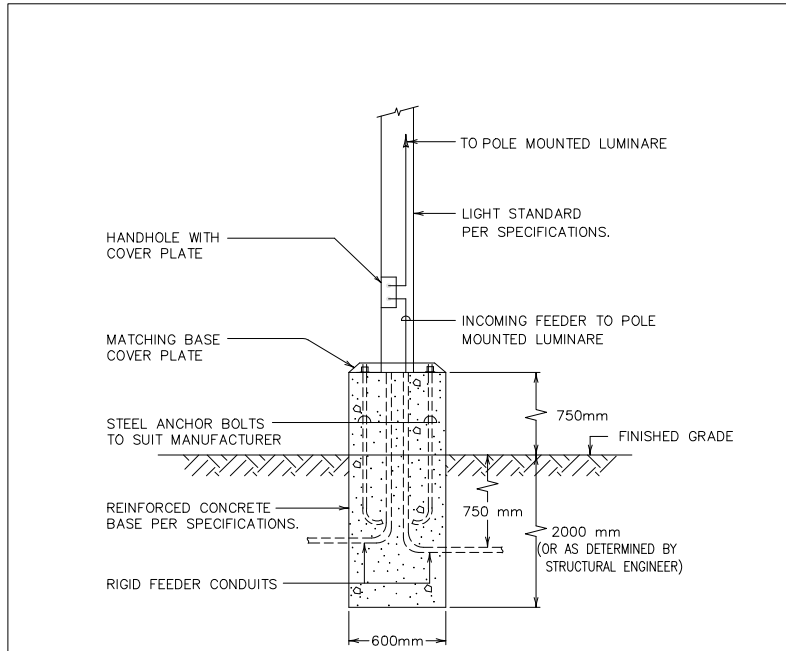
ALL EQUIPMENT AND MATERIALS USED SHALL MEET THE REQUIREMENTS OF ONTARIO BUILDING CODE, ONTARIO ELECTRICAL SAFETY CODES, AND ALL OTHER APPLICABLE CODES AND STANDARDS.

ALL INSTALLATION TO COMPLY WITH ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE CODES AND STANDARDS.

| DRAWING LIST |                                     |
|--------------|-------------------------------------|
| DWG NO.      | DRAWING NAME                        |
| E-01         | SITE PLAN - OUTDOOR LIGHTING LAYOUT |



**PROPOSED POLE HEIGHT FROM GRADE TO THE LIGHT FIXTURE = 6.4M**



- NOTES:
1. ALL CONDUITS SHALL BE 35 MM RIGID PVC
  2. PROVIDE PHOTOCELL ON TOP OF LIGHTING FIXTURE
  3. CONCRETE STRENGTH 20 MPa
  4. PLACE CONCRETE IN PRE AUGURED HOLES

LIGHTING POLE BASE DETAILS  
N.T.S.

### OUTDOOR LIGHTING GENERAL NOTES

- ALL EXTERIOR LUMINAIRES SHALL BE FULL-OUT (DARK-SKY COMPLIANT) AND BE FULLY SHIELDED TO PREVENT LIGHT SPILL, IN ACCORDANCE WITH IESNA RP-33 AND APPLICABLE MUNICIPALITY ORDINANCES.
- LIGHTING DESIGN CONSULT WITH LOCAL MUNICIPALITY DESIGN GUIDELINES TO DETERMINE THE BEST LIGHTING SOLUTIONS FOR THE PROJECT, INCLUDING IESNA RP-33 (ROADWAY AND PARKING AREA LIGHTING).
- AVERAGE HORIZONTAL LUMINANCE LEVELS AND UNIFORMITY RATIO SHALL BE DETERMINED BY THE CONSULTANT AND PROVIDED AS RECOMMENDATIONS FOR SAFETY AND VISIBILITY.
- ALL FIXTURES SHALL BE HIGH-EFFICIENCY LED, MINIMUM 80 CRI, WITH A MINIMUM LUMEN OUTPUT OF 100 LM/W. THE CONSULTANT SHALL PROVIDE TO REDUCE BLUE LIGHT EMISSIONS.
- ALL EXISTING AND NEWLY MOUNTED EXTERIOR LIGHTS SHALL NOT EXCEED THE MUNICIPAL ZONING REQUIREMENTS.
- FIXTURES SHALL BE ORIENTED AND SHIELDED TO PREVENT LIGHT SPILL ONTO ADJACENT PROPERTIES AND ROADWAYS.
- ALL LUMINAIRES SHALL BE CONTROLLED BY PHOTOCELLS AND/or TIME CLOCKS TO ENSURE OPERATION ONLY DURING DESIRED HOURS OF DARKNESS.
- EMERGENCY AND SECURITY LIGHTING, WHERE REQUIRED, SHALL CONFORM TO THE ONTARIO BUILDING CODE (OBC), ELECTRICAL SAFETY AUTHORITY (ESA) AND ALL APPLICABLE MUNICIPALITY ORDINANCES.
- CONTRACTOR SHALL VERIFY ALL FIXTURE LOCATIONS, MOUNTING HEIGHTS, AND CLEARANCES WITH SITE CONDITIONS AND UNDERGROUND UTILITIES PRIOR TO INSTALLATION.

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DRAWINGS ARE NOT TO BE SCALED; REFER TO ARCHITECTURAL DRAWINGS FOR ALL MEASUREMENTS.

LOCATION OF EQUIPMENT ARE APPROXIMATE AND MUST BE COORDINATED WITH OTHER TRADES, OWNER, BUILDING DEPARTMENT AND BEFORE FINAL INSTALLATION.

ALL DUCTWORK RUNNING IN UNOCCUPIED SPACES SHALL BE INSULATED WITH MIN R-12.

FOR ROOMS WITHOUT RETURN GRILLE, INTERIOR DOORS SHALL BE UNLOCKED.

ALL DUCTWORK SHALL BE SEALED USING APPROVED DUCT SEALER.

ALL EQUIPMENT AND MATERIALS USED SHALL MEET THE REQUIREMENTS OF ONTARIO BUILDING CODE, ONTARIO ELECTRICAL SAFETY CODE, AND ALL OTHER APPLICABLE CODES AND STANDARDS.

ALL INSTALLATION TO COMPLY WITH ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE CODES AND STANDARDS.

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ARCHITECT

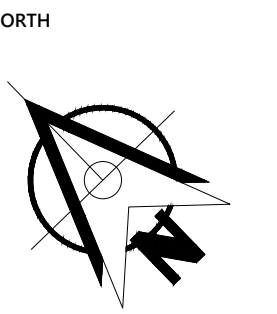
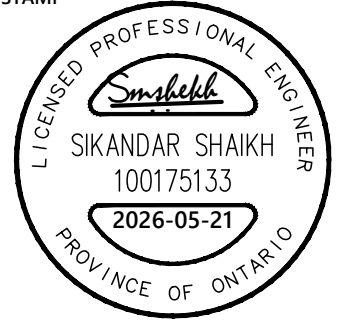


MECHANICAL ENGINEER



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STAMP



**DRAWING TITLE:**

## SITE PLAN - OUTDOOR LIGHTING LAYOUT

PROJECT ADDRESS:

3110 S SERVICE ROAD -  
BURLINGTON

PROJECT NUMBER:

2603203E

DESIGNED BY

**S.S.**

**SCALE: 1:250**

## E-01