

DRAWING NOTES

- LOCATION OF BUILDING E ELECTRICAL ROOM AND PANEL YE.
- LOCATION OF BUILDING G ELECTRICAL ROOM AND PANEL YG.
- LOCATION OF BUILDING F ELECTRICAL EQUIPMENT. SUPPLY AND INSTALL 600A FUSED DISCONNECT. SWBD FFF AND PANEL YF ARE SUPPLIED AND INSTALLED BY OTHERS AS PART OF A PRE-BUILT AND PRE-WIRED ELECTRICAL SYSTEM WALL. COORDINATE LOCATIONS OF 600A FUSED DISCONNECT, TIMER CLOCK AND CONTACTOR BOX WITH OWNER AND BUILDING F CONTRACTOR TO AVOID INTERFERENCE WITH ELECTRICAL SYSTEM WALL INSTALLATION.
- EXISTING CIRCUIT YE-8 AVAILABLE IN HANDHOLE FOR FUTURE USE. EXTEND TO NEW POLE LIGHTING NEAR NEW BUILDING F.
- APPROXIMATE LOCATION OF EXISTING 53mm CONDUIT BURIED FOR FUTURE USE. LOCATE CONDUIT AND EXTEND TO NEW LIGHTING
- DEMOLISH EXISTING WALL PACK FIXTURE. COORDINATE ALL WORK WITH BUILDING G ELECTRICAL CONTRACTOR.
- TYPE M DOWNLIGHTS TO BE INSTALLED IN CANOPY. CONFIRM EXACT PRODUCT AND LOCATIONS WITH BUILDING F ARCHITECT PRIOR TO INSTALLATION.
- ALL NEW TYPE W2 FIXTURES TO MATCH EXISTING. CONNECT TO THE EXISTING CIRCUIT POWERING THE EXISTING TYPE W2 FIXTURES IN FRONT OF BUILDING G2. PERFORM CLAMP-ON LOAD READING OF THIS CIRCUIT TO CONFIRM SUFFICIENT CAPACITY.
- TERMINATE DUCTS AT PROPERTY LINE AND PROVIDE MARKERS. COORDINATE WITH BELL CANADA.

COOPER LIGHTING

ECLIPSE LIGHTING

LITHONIA LIGHTING

WALL PACK

EXTERIOR SCONCE

FLOOD LIGHT

5000

5000

5000

6905

17776

MODEL

EWS3-D-A7-D1-40-1-DKBZ

LRC-6R-B-D-15-WD-SD-CL-MR-T-35-VQ-WR

CNX-LRL3-P2-3M-50-100-L-X-BLK

CNX-LPL-50-150-P2-4-BLK

IST-AF-1200-LED-347-T3-BK-7050

GALILEO MERCURY (MATCH EXISTING)

DSXF3 LED 6 P1 50K WFL 347

MARK

W3

T

 \blacksquare

DRAWING NOTES

- SUPPLY AND INSTALL 2-103mm TELEPHONE DUCTS ENCASED IN CONCRETE. REFER TO DETAIL 3. COORDINATE TERMINATION LOCATION WITH BUILDING F ELECTRICAL CONTRACTOR. COORDINATE EXACT ROUTING WITH OWNER.
- SUPPLY AND INSTALL TX SECONDARY (LOW VOLTAGE) CABLES AND 4-103mm DUCTS ENCASED IN CONCRETE. REFER TO DETAIL 3. COORDINATE TERMINATION LOCATION WITH BUILDING F ELECTRICAL CONTRACTOR. SUPPLY ALL REQUIRED TERMINATION LUGS. COORDINATE EXACT REQUIREMENTS WITH LUSI.



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PROJECT NAME / LOCATION

SMARTCENTRES

COBOURG

Strathy Road, Cobourg, ON

DePALMA DRIV



- 1. CONTRACTOR TO SUPPLY AND INSTALL ALL NEW FIXTURES.
- 2. CONTRACTOR TO SUPPLY AND INSTALL ALL REQUIRED MOUNTING
- 3. ALL FIXTURES TO BE CONTROLLED BY BASE BUILDING EXTERIOR LIGHTING
- 5. ALL FIXTURES ARE NEW UNLESS OTHERWISE NOTED.

GENERAL NOTES

- CONTACTORS
- 4. COORDINATE EXACT LOCATIONS AND HEIGHTS OF ALL EQUIPMENT AND FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION. ALLOW FOR ANY RELOCATIONS WITHIN 5m AT NO ADDITIONAL COST.
- 'EX' DENOTES EXISTING.

LIO	GHTING FIXTUR	E SCHEDULE	-				
MANUFACTURER	DESCRIPTION	COLOR TEMPERATURE	LUMEN OUTPUT	VOLTAGE (V)	WATTAGE (W)	HEIGHT	COMMENTS
GE CURRENT	WALL PACK	4000	2900	347	28	AS NOTED	
GE CURRENT	DOWNLIGHT	3500	1576	347	13.5	AT CANOPY	PROVIDE GE #93025091-FRAME6R KIT
CONXCORP	POLE LIGHT	5000	20000	347	235	12m	EXISTING POLE FIXTURE
CONXCORP	POLE LIGHT	5000	21750	347	150	12m	MATCH EXISTING

347

347

347

111

5.9m

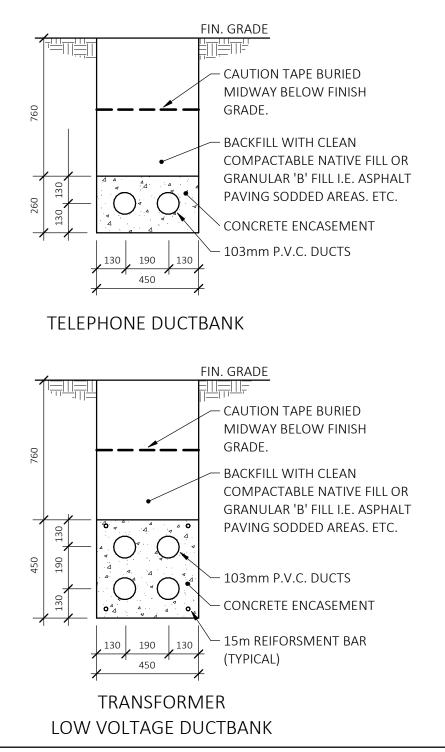
4.1m

1m BELOW

PARAPET

MATCH EXISTING

MATCH EXISTING



SA/BL 06/25/20 ARCH D 1:500 PRAWING TITLE ELECTRICAL SITE PLAN

ISSUED FOR TENDER

RE-ISSUED FOR SPA

SSUED FOR SPA

SUBMISSION RE-ISSUED FOR SPA

SUBMISSION

25-JUN-2020

13-JUL-2020

1-SEP-2020

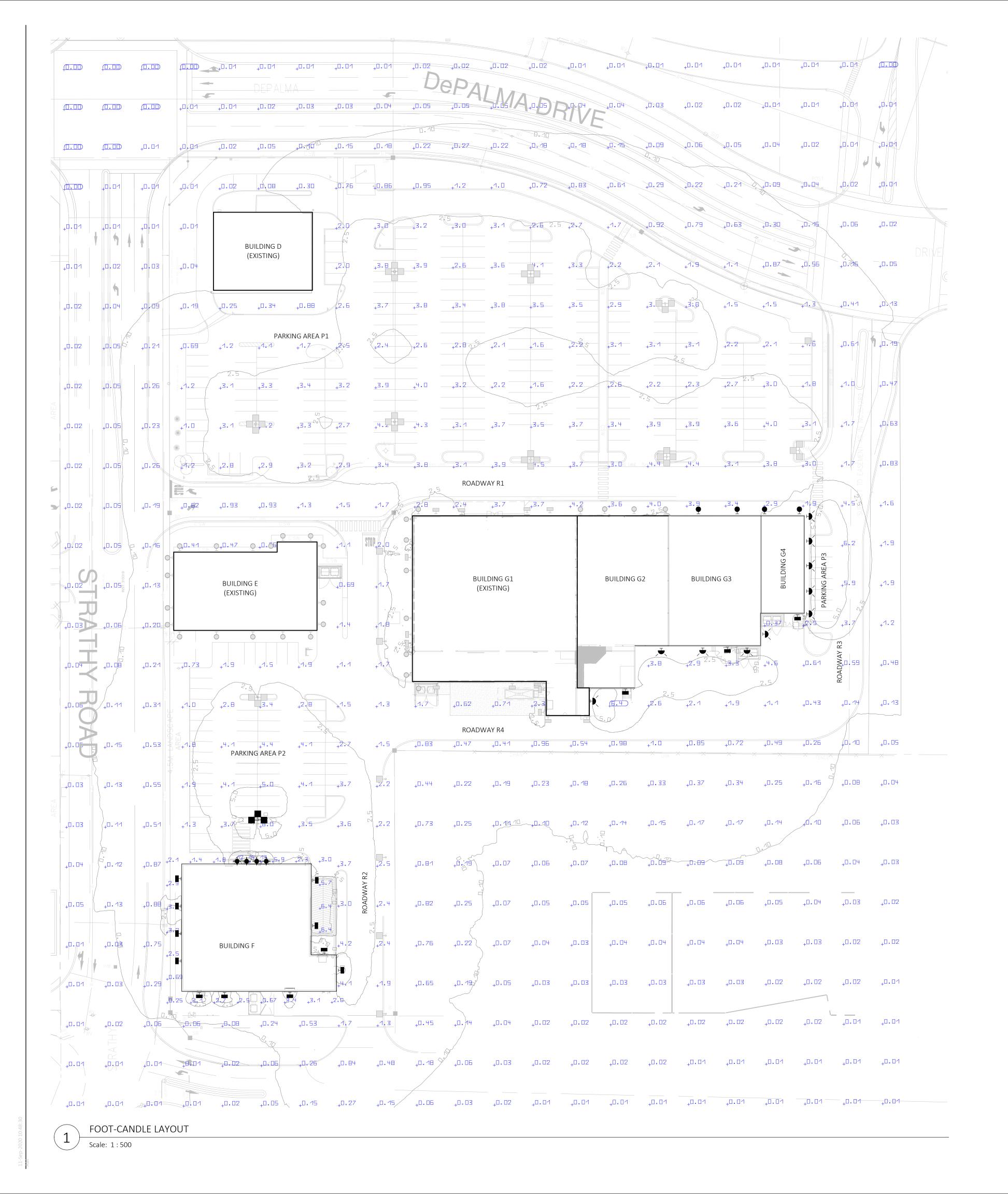
11-SEP-2020

E-101

HEET NUMBER

Scale: 1:500

ELECTRICAL SITE PLAN



LIGHT LOSS FACTOR: 0.72 LIGHTING LEVELS (FOOTCANDLES) SURFACE RESULT AVERAGE AVG/MIN MAX/MIN PARKING AREA P1 5.65 PERPENDICULAR ILLUMINANCE (ADAPTIVE) [FC] 2.81 5.44 10.9 PARKING AREA P2 3.38 3.20 1.06 PERPENDICULAR ILLUMINANCE (ADAPTIVE) [FC] 3 PARKING AREA P3 2.80 5.53 25.4 0.11 PERPENDICULAR ILLUMINANCE (ADAPTIVE) [FC] 4 ROADWAY R1 PERPENDICULAR ILLUMINANCE (ADAPTIVE) [FC] 2.88 0.09 6.08 67.6 5 ROADWAY R2 2.63 6.02 2.41 5.49 1.10 PERPENDICULAR ILLUMINANCE (ADAPTIVE) [FC] 6 ROADWAY R3 3.59 0.51 5.57 7.02 10.9 PERPENDICULAR ILLUMINANCE (ADAPTIVE) [FC] 1.45 7 ROADWAY R4 0.094 8.32 15.5 88.7 PERPENDICULAR ILLUMINANCE (ADAPTIVE) [FC]



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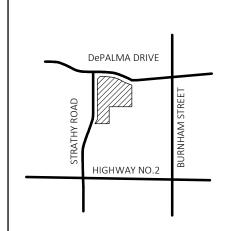
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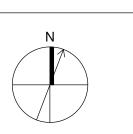
PROJECT NAME / LOCATION

SMARTCENTRES COBOURG

Strathy Road, Cobourg, ON

KEYPLAN





NEV.	DATE	DESCRIPTION
1	25-JUN-2020	ISSUED FOR TENDER
2	13-JUL-2020	ISSUED FOR SPA SUBMISSION
3	1-SEP-2020	RE-ISSUED FOR SPA SUBMISSION
4	11-SEP-2020	RE-ISSUED FOR SPA SUBMISSION

AS PROJECT NUMBER

AS 19083

CKED BY DATE

SA/BL 06/25/20

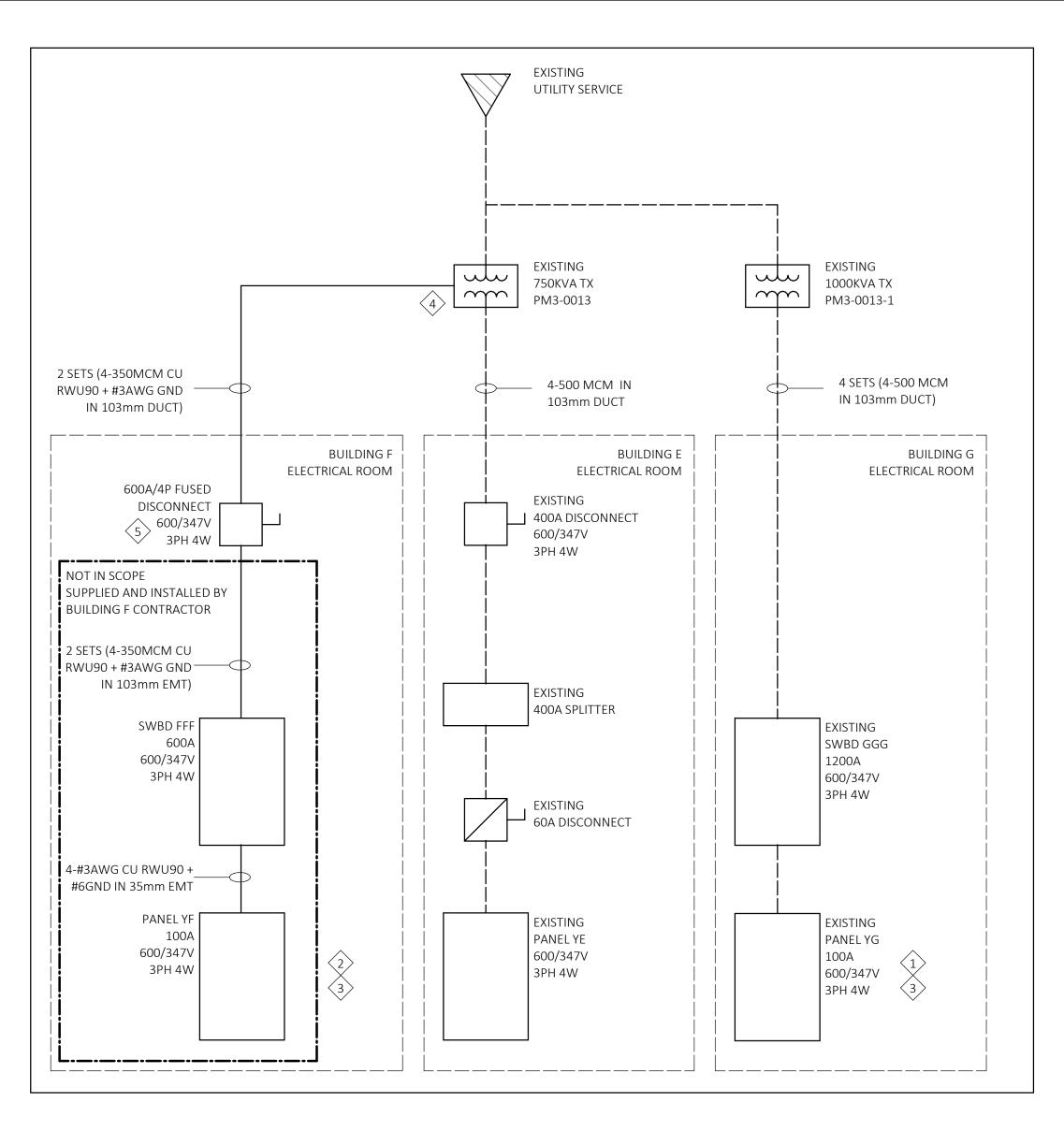
ET SIZE SCALE

ARCH D 1:500

FOOT-CANDLE LAYOUT

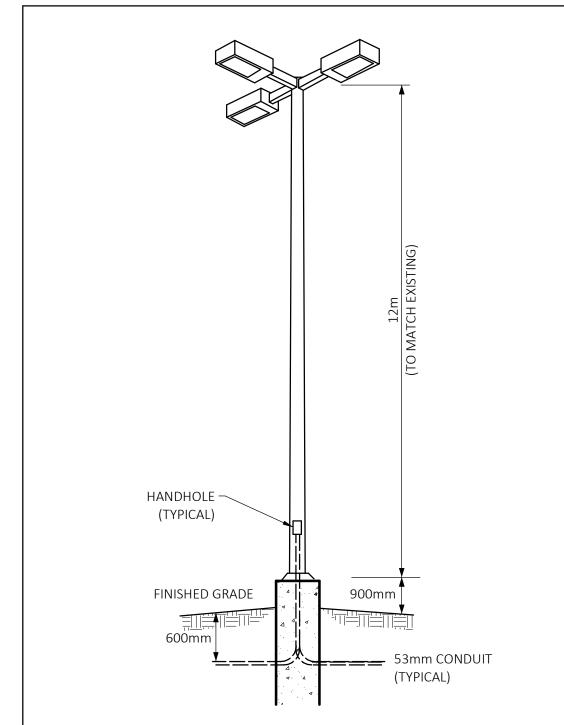
SHEET NUMBER

E-102





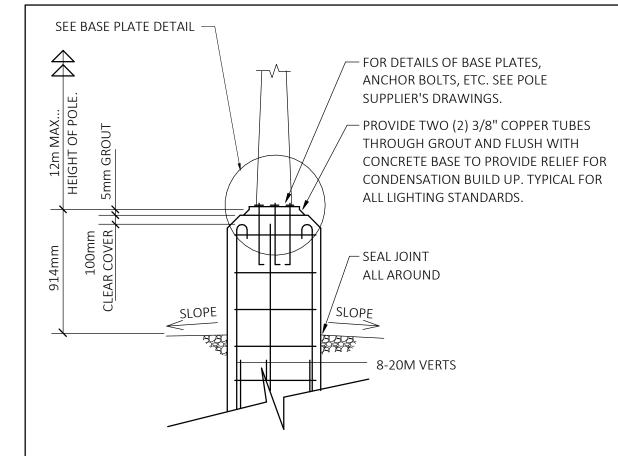
		C	CONTACTOR SCH	IEDULE			
PANEL NAME	CONTACTOR	ITEMS CONTROLLED	CIRCUITS CONTROLLED	VOLTAGE (V)	MINIMUM NUMBER OF SPARE	RATING (A)	REMARKS
YG	C1	SITE LIGHTING	YG-1,7,11,13	347V	0	20A	PC-ON, TS-OFF
YG	C2	SITE LIGHTING	YG-3,5,9,15	347V	0	20A	PC-ON, TS-OFF
YG	C3	PYLON SIGNS	YG-2,4,6	347V	0	20A	PC-ON, TS-OFF
YG	C4	MORALITY LIGHTING	YG-8,10	347V	0	20A	PC-ON, PC-OFF
YG	C5	SITE LIGHTING	YG-17	347V	3	20A	PC-ON, TS-OFF
YE	C1	SITE LIGHTING	YE-4,6,8	347V	1	20A	PC-ON, PC-OFF
YF	C1	SITE LIGHTING	YF-1	347V	3	20A	PC-ON, TS-OFF
YF	C2	CANOPY LIGHTING	YF-3	347V	3	20A	PC-ON, PC-OFF



DETAIL NOTES:

- SUPPLY AND INSTALL POLES AND FIXTURES AND ALL REQUIRED HARDWARE
- COORDINATE BASES PLATE & ANCHOR BOLT INSTALLATION
- POLE BASES SHALL BE PAINTED SAFETY YELLOW

PARKING LOT LIGHTING STANDARDS



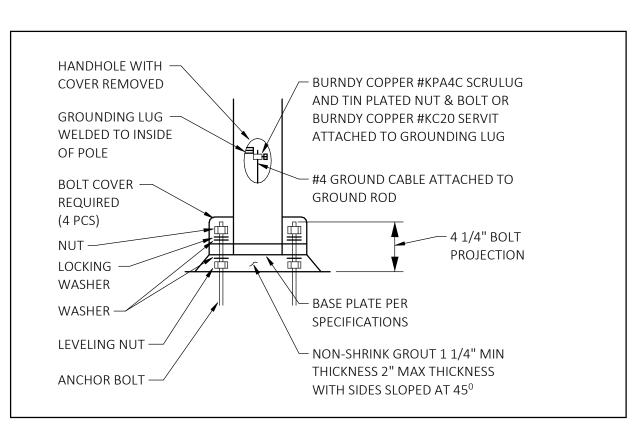
DETAIL NOTES:

- CONTRACTOR TO PROVIDE REINFORCED POLE BASES

- INCLUDE COST FOR HIRING OF STRUCTURAL ENGINEER WHO SHALL DESIGN, REVIEW AND APPROVE CONCRETE BASES FOR PARKING LOT LIGHTING STANDARDS PRIOR TO INSTALLATION

SUBMIT ENGINEER STAMPED COPY OF APPROVED POLE BASE DRAWINGS FOR RECORDS





ELECTRICAL SPECIFICATIONS

- 1.1 PROVIDE ALL EQUIPMENT, MATERIALS, LABOUR AND SERVICES TO COMPLETE THE ELECTRICAL INSTALLATION AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS. WHERE THERE IS A
- CONFLICT, THE SPECIFICATIONS SHALL TAKE PRECEDENCE. 1.2 BEFORE FINAL PAYMENT IS MADE AN UNCONDITIONAL PROVINCIAL INSPECTION DEPARTMENT CERTIFICATE SHALL BE GIVEN TO THE OWNER, INDICATING THAT ALL PARTS OF THE ELECTRICAL
- SYSTEM MEET WITH LAKEFRONT UTILITIES SERVICES INC. AND ESA APPROVAL. 1.3 EXCAVATION, TRENCHING, BACKFILLING AND CONCRETE WORK REQUIRED FOR THE
- INSTALLATION OF ELECTRICAL WORK SHALL BE BY SITE SERVICES ELECTRICAL CONTRACTOR. 1.4 PROVIDE FOR ALL REQUIRED CONCRETE CORING AND FIRE STOPPING. COORDINATE WITH OWNER FOR ALLOWED WORKING HOURS FOR ALL NOISY WORK.
- 2.0 REGULATIONS
- 2.1 ALL WORK SHALL CONFORM TO APPLICABLE CODES, LAWS AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, CSA CODE, ESA CODE, AND LOCAL MUNICIPAL AND PROVINCIAL LAW AND
- 2.2 COMPLY WITH ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION (AHJ).
- 3.0 PERMITS, FEES AND INSPECTIONS
- 3.1 APPLY AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS BY AHJ.
- 4.1 ELECTRONICALLY SUBMIT SHOP DRAWINGS OF EACH EQUIPMENT PRIOR TO PURCHASE AND
- 5.0 INSTRUCTIONS AND DATA BOOKS
- 5.1 PROVIDE THE SERVICES OF COMPETENT PERSONNEL TO INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF THE EQUIPMENT.
- 5.2 SUBMIT TO OWNER ONE (1) BINDER CONTAINING ONE (1) PRINTED COPY OF EACH SHOP DRAWING, MAINTENANCE MANUAL, AND OPERATING MANUAL OF EACH EQUIPMENT. SUBMIT TO OWNER AND ENGINEER AN ELECTRONIC COPY OF THE SAME.
- 6.1 MAINTAIN SUCH INSURANCE AS WILL FULLY PROTECT BOTH THE OWNER AND ENGINEER FROM ANY
- AND ALL CLAIMS UNDER THE WORKMEN'S COMPENSATION ACT. 6.2 MAINTAIN ALL NECESSARY INSURANCE TO PROTECT THE OWNER, ENGINEER, AND THE TRADES OF THE DIVISION FROM ALL POSSIBLE CLAIMS.
- 7.1 CONTRACTOR SHALL WARRANTY ALL WORK FOR ONE (1) YEAR FROM THE DATA OF ISSUE OF THE SUBSTANTIAL COMPLETION CERTIFICATE. DURING THE WARRANTY PERIOD, THE CONTRACTOR SHALL REPAIR ANY AND ALL WORK TO THE SATISFACTION OF THE OWNER IN A TIMELY MANNER
- 8.0 IDENTIFICATION
- 8.1 SUPPLY AND INSTALL BLACK LAMACOID NAMEPLATES WITH WHITE LETTERING TO IDENTIFY ALL ELECTRICAL EQUIPMENT AND BREAKERS.
- 9.1 ALL EQUIPMENT SHALL BE CLEANED DURING CONSTRUCTION AND THOROUGHLY CLEANED ON COMPLETION OF THE CONTRACT.
- 10.0 COORDINATION
- 10.1 COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO PURCHASE AND INSTALLATION.
- 11.0 TEMPORARY OR TRIAL USAGE
- 11.1 THE OWNER RESERVES THE RIGHT OF TEMPORARY OR TRIAL USAGE PRIOR TO ACCEPTING THE
- 12.0 EXISTING CONDITTIONS
- 12.1 PERFORM A SITE INSPECTION OF EXISTING CONDITIONS AFFECTING THE WORK PRIOR TO
- SUBMITTING PRICING. 12.2 BEFORE COMMENCING THE WORK, EXAMINE THE WORK OF OTHER TRADES AND IMMEDIATELY REPORT ANY DEFECTS OR INTERFERENCE AFFECTING THE CONTRACTOR'S WORK.
- 12.3 NO ALLOWANCE WILL BE ALLOWED LATER DUE TO THE FAILURE TO EXAMINE AND REPORT EXISTING CONDITIONS.
- 13.0 RECORD DRAWINGS
- 13.1 PROVIDE, AT CONTRACTOR'S EXPENSE, A FULL SIZE COPY OF RECORD DRAWINGS ON SITE.
- 13.2 CLEARLY MARK-UP ON THE RECORD DRAWINGS ALL CHANGES MADE BY CHANGE ORDERS. 13.3 CLEARLY MARK-UP ON THE RECORD DRAWINGS ALL AS-BUILT INFORMATION INCLUDING
- CONDUIT AND WIRE SIZE AND ROUTING. LOCATE ALL BURIED AND CONCEALED SERVICES. PULL BOXES, JUNCTION BOXES, ETC FOR ALL SYSTEMS WITH DIMENSIONS TO THE BUILDING GRID. 13.4 OBTAIN CAD FILES FROM THE ENGINEER AND UPDATE ALL AS-BUILT INFORMATION IN THE CAD FILE.
- SUBMIT ELECTRONIC AS-BUILT DRAWINGS TO ENGINEER. 13.5 PROVIDE THREE (3) PRINTED COPIES OF THE AS-BUILT DRAWINGS AND THE ORIGINAL MARKED-UP DRAWING TO THE OWNER.
- 14.0 TESTING AND COMMISSIONING
- 14.1 ALL SYSTEMS, EQUIPMENT AND INSTALLATION SHALL BE INSPECTED, TESTED, ADJUSTED AND COMMISSIONED TO ENSURE COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS, AND REQUIREMENTS OF THE AHJ.
- 15.0 SCHEDULE
- 15.1 ADHERE TO THE SCHEDULE PROVIDED BY THE OWNER. IMMEDIATELY NOTIFY THE OWNER OF ANY DELAYS AFFECTING THE SCHEDULE.
- 16.0 MATERIALS
- 16.1 ALL MATERIALS USED SHALL BE NEW AND FREE FROM DEFECTS. ALL MATERIALS SHALL BE OF THE TYPE SPECIFIED OR AN APPROVED EQUIVALENT. ALL MATERIALS SHALL BE CSA APPROVED.
- 16.2 ALL WORK SHALL BE NEATLY PERFORMED TO THE SATISFACTION OF THE OWNER.
- 16.3 ALL CONDUCTORS FOR SITE LIGHTING SHALL BE TYPE RWU90 WITH 1000V INSULATION. 16.4 ALL CONDUCTORS TO BE COLOUR CODED AND IDENTIFIED AT ALL LIGHTING STANDARDS AND
- PULL BOXES.
- 16.5 ALL INDOOR CONDUIT TO BE ELECTRIC METALLIC TUBE (EMT) TYPE WITH SET-SCREW FITTINGS. 16.6 ALL OUTDOOR EXPOSED CONDUIT TO BE RIGID METALLIC CONDUIT (RMC) TYPE WITH COMPRESSION FITTINGS.
- 16.7 ALL UNDERGROUND AND UNDER-SLAB CONDUIT TO BE DB2 PVC TYPE. MAKE ALL CONNECTIONS WATERTIGHT.
- 16.8 PROVIDE MINIMUM #6AWG BARE COPPER GROUND WIRE IN ALL UNDERGROUND DUCT. 16.9 CONTRACTOR TO ENSURE ALL CONDUITS ARE OF ADEQUATE SIZE SUCH THAT ALL REQUIRED CONDUCTORS CAN BE PULLED WITHOUT STRAIN OR DAMAGE. USE CSA APPROVED LUBRICATED AS
- 16.10 PROVIDE SLEEVES FOR ALL PVC CONDUIT PENETRATING FOUNDATION WALLS. PROVIDE RIGID
- ELBOW FITTINGS FOR ALL PVC CONDUIT STUB UPS AT CONCRETE SLAB. 16.11 TEST EACH INSTALLED DUCT BY PULLING A STEEL WIRE BRUSH AND CONDUIT MANDREL
- THROUGH THE ENTIRE LENGTH. REMOVE ANY AND ALL OBSTRUCTIONS. 16.12 PROVIDE 9MM POLYETHYLENE PULL ROPE IN EACH DUCT. PLUG BOTH ENDS OF EACH DUCT. 16.13 THE SITE SERVICES ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE DUCT BANKS INSPECTED AND APPROVED BY THE APPROPRIATE AUTHORITY BEFORE THE CONCRETE
- SURROUNDING THEM IS POURED. 16.14 BOTH ENDS OF EACH DUCT SHALL BE PLUGGED.
- 16.15 COORDINATE WORK WITH LAKEFRONT UTILITIES SERVICES INC. AND INSTALL ALL COMPONENTS IN ACCORDANCE WITH AND TO COMPLETE SATISFACTION OF LAKEFRONT UTILITIES SERVICES INC, AND ESA.
- 17.0 GROUNDING
- 17.1 PROVIDE GROUNDING FOR THE COMPLETE INSTALLATION AS REQUIRED BY APPLICABLE CODES AND AHJ.

DRAWING NOTES

- SUPPLY AND INSTALL ONE (1) 4-POLE LIGHTING CONTACTOR C5 IN EXISTING BUILDING G LIGHTING CONTACTOR BOX FOR NEW CIRCUIT YG-17. TIE INTO EXISTING PHOTOCELL AND TIMER SIGNALS.
- SUPPLY AND INSTALL TWO (2) 4-POLE 20A CONTACTORS COMPLETE WITH ELECTRICAL BOX IN ELECTRICAL ROOM NEAR PANEL YF. SUPPLY AND INSTALL ONE (1) PHOTOCELL AND ONE (1) INTERMATIC T101 TIMER COMPLETE WITH BYPASS CAPABILITY. CONFIRM EXACT LOCATIONS WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION. TIE IN PHOTOCELL AND TIMER SIGNALS TO BOTH CONTACTORS. CONNECT 20A LIGHTING CIRCUIT FROM CONTACTOR C1 TO BUILDING F WALL PACKS. CONNECT 20A LIGHTING CIRCUIT FROM CONTACTOR C2 TO BUILDING F CANOPY FIXTURES. BUILDING F ELECTRICAL CONTRACTOR TO PROVIDE 20A CIRCUITS FROM PANEL YF TO CONTACTORS.
- (3) IF LIGHTING CONTACTORS ARE DELETED FROM SCOPE, CONTRACTOR SHALL PROVIDE 10m SLACK FOR ALL BRANCH WIRING AND COIL IN ELECTRICAL ROOM FOR FUTURE CONNECTION BY OTHERS.
- 4 SUPPLY AND INSTALL LOW VOLTAGE CABLES IN DUCTBANK FROM EXISTING 750KVA TX TO BUILDING F. COORDINATE EXACT REQUIREMENTS WITH LUSI AND PROVIDE ALL REQUIRED COMPONENTS. COORDINATE TRANSFORMER CABLE LUG SPACES AND SIZES WITH LUSI.
- 5 SUPPLY AND INSTALL 600A 4-POLE FUSED DISCONNECT WITH SWITCHED NEUTRAL. COORDINATE EXACT LOCATION WITH BUILDING F CONTRACTOR. PRODUCT TO BE EATON OR SQUARE D OR SIEMENS. PROVIDE FOUR (4) 600A FUSES IN THE DISCONNECT AND PROVIDE A WALL-MOUNTED BOX CONTAINING FOUR (4) SPARE 600A FUSES.



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HECKED BY

SHEET SIZE

RAWING TITLE

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SUED FOR TENDER

JED FOR SPA

-ISSUED FOR SPA

RE-ISSUED FOR SPA

06/25/20

N.T.S.

SCALE

SINGLE LINE DIAGRAM

AND DETAILS

ARCH D

UBMISSION

SUBMISSION

SMARTCENTRES COBOURG

Strathy Road, Cobourg, ON

SITE LIGHTING NOTES

- 1. ALL POLES AND POLE BASES SHALL MATCH EXISTING ON SITE.
- POLES: ONE PIECE, 12.00 M LONG, ROUND, TAPERED AT 3.6 MM PER FOOT, SINGLE, UNIFORM THICKNESS, U.S. DOMESTIC STEAL HAVING A GUARANTEED MINIMUM YIELD STRENGTH OF 55,000 PSI AFTER FABRICATION COMPLYING WITH ASTM A 595, GRADE A, STEEL WITH SEAMLESS APPEARING LONGITUDINAL WELD. ERECTED POLES AND ANCHOR BOLTS SHALL BE CAPABLE OF SUPPORTING MAXIMUM VERTICAL AND HORIZONTAL LOADS EXERTED ON THE COMPLETED STRUCTURE IN ACCORDANCE WITH THE LATEST AASHTO EDITION MEETING THE REQUIREMENTS OF 198 KM/H WINDS WITH A 1.3 GUST FACTOR. THE POLE SHALL HAVE A 102MM X 152MM REINFORCED HAND HOLE LOCATED APPROXIMATELY 458MM ABOVE BASE PLATE CND GROUNDING LUG WELDED TO INTERIOR OF POLE OPPOSITE HAND HOLE. FABRICATED POLES DELIVERED TO THE JOB SITE SHALL BE FACTORY PAINTED BOTH INSIDE AND OUT. THE INSIDE SHALL BE PAINTED WITH A RED OXIDE RUST-INHIBITIVE ALKYD PRIMER TO A DRIED FILM THICKNESS OF 1.0 MILA. THE EXTERIOR SHALL BE COATED WITH A POLYESTER BLACK SG139 POWDER TO A MINIMUM DRY FILM THICKNESS OF 3.0 MILS. AN ALIPHATIC POLYURETHANE #D1016 (#B07 FOR BRONZE) TOUCH-UP KIT SHALL BE INCLUDED TO FINISH ANY SCRATCHED COATINGS.
- POLE BASE PLATES: THE BASE PLATE SHALL BE FABRICATED FROM A COMMERCIAL QUALITY, HOT-ROLLED CARBON STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A36 HAVING A MINIMUM YIELD STRENGTH OF 240 MPA. THE BASE PLATE SHALL TELESCOPE THE POLES SHAFT AND BE CIRCUMFERENTIALLY WELDED TOP AND BOTTOM. THE BASE PLATE SHALL BE SLOTTED TO ACCOMMODATE A 3MM VARIATION IN THS NOMINAL BOLT
- ANCHOR BOLT: SUPPLY 4 ANCHOR BOLTS WITH EACH POLE. ANCHOR BOLTS SHALL BE 25MM MINIMUM DIAMETER HOT—ROLLED DOMESTIC STEEL BAR COMPLYING WITH ASTM A36 (MODIFIED) AND HAVE MINIMUM GUARANTEED YIELD STRENGTH OF 367MPA AND SHALL BE 914MM LONG WITH ADDITIONAL 102MM HOOK AT 90 DEGREE TOTALLY GALVANIZED. EACH ANCHOR BOLT SHALL BE SUPPLIED WITH 2 GALVANIZED HEX-NUTS PER ASTM A 307, TWO GALVANIZED FLAT WASHERS, ONE GALVANIZED LOCK WASHER AND ONS DIE-CAST NUT COVER WITH A 6MM STAINLESS STEEL, HEX-HEAD, SELF TAPPING SCREW.
- FIXTURES: FABRICATE FIXTURES FROM FORMED OR EXTRUDED ALUMINUM ONLY. ASSEMBLE TO FORM WEATHERPROOF AND BUG-PROOF UNIT. EACH FIXTURE SHALL BEAR THE UL LABEL FOR WET LOCATION AND SHALL HAVE AN ARCHITECTURAL CLASS I ANODIZED FINISH OR AN OWNER APPROVED BAKED—ON POLYESTER FINISH. COLOR SHALL BE #DU313 DORK BRONZE OR #DU314 BLACK. INJECTED SILICON USED AS A WEATHERPROOFING SEAL SHALL NOT BE DIRECTLY EXPOSED TO SUNLIGHT AND SHALL NOT BE THE SOLE MEANS TO PREVENT WATER INTRUSION. LENS FRAME SHALL BE MITERED. EXTRUDED ANODIZED ALUMINUM WITH STAINLESS STEEL SPRING LOADED LATCHES AND HINGE PINS. TOOL-LESS ACCESS IS REQUIRED TO OPTIC CHAMBER AND BALLAST. LENS DOOR FRAME SHALL BE ESSENTIALLY WATERTIGHT WITH A MEMORY RETENTIVE EXTRUDED SILICON RUBBER
- LENS SHALL BE HEAT TEMPERED GLASS OR POLYCARBONATE MATERIAL, BOLTS SHALL BE HARDENED DOMESTIC STEAL. FIXTURE ARM SHALL HAVE AN INTERNAL EXTRUDED BOLT CHANNEL GUIDE AND AN INTEGRAL HAND HOLD WITH A COVER FOR THE FIELD WIRING CONNECTIONS.