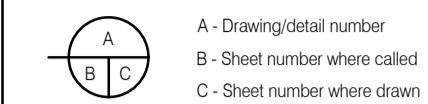


AFFORDABLE HOUSING BUILDING – COUNTY OF HASTINGS

CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS. REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS.



No.	Date	Description	By
1	2024/04/12	ISSUED FOR PERMIT	BV
2	2024/07/30	ISSUED FOR TENDER	BV

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHTING LED LUMINAIRES. SIZE AS SHOWN ON PLANS. GROUND MOUNTED HID LUMINAIRE POLE MOUNTED LUMINAIRE. INCANDESCENT OR LED LUMINAIRE – WALL MOUNTED INCANDESCENT OR LED LUMINAIRE – CEILING MOUNTED OR FLOOR MOUNTED BOLLARDS LUMINAIRES ON EMERGENCY POWER. COVE LIGHTING FIXTURE. 2', 3', 4' LENGTH TO SUIT SPACE. LUMINAIRE DESIGNATOR – LETTER INSIDE DENOTES LUMINAIRE TYPE. REFER TO LUMINAIRE SCHEDULE IN SPECIFICATIONS. TERRANCE LED STRIP LIGHTING		SWITCHING SINGLE POLE, SINGLE THROW TOGGLE SWITCH (3' DENOTES 3-WAY, '4' DENOTES 4-WAY, 'PL' DENOTES PILOT LIGHT, 'LV' DENOTES LOW VOLTAGE, 'K' DENOTES KEY OPERATED). DIMMER SWITCH, DIMMER LIGHT SWITCH (600WATT UNLESS OTHER WISE NOTED:10=1000W, 15=1500W) OCCUPANCY SENSOR, WALL AND CEILING MOUNTED DIMMER/OCCUPANCY SENSOR COMBINATION PHOTOCELL TIME SWITCH PUSHBUTTON POWER DEVICES CIRCUIT BREAKER CIRCUIT BREAKER C/W TRIP SETTING, AMP RATING AND TRIP AS NOTED ON DWG. FUSED DISCONNECT SWITCH UNFUSED DISCONNECT SWITCH FEEDER POWER TRANSFORMER DIGITAL METERING SYSTEM		LIFE SAFETY SYSTEMS FIRE ALARM HORN/STROBE COMBINATION, CEILING/WALL MOUNTED FIRE ALARM MINI HORN, CEILING/WALL MOUNTED FIRE ALARM HORN, CEILING/WALL MOUNTED FIRE ALARM STROBE, CEILING/WALL MOUNTED FIRE ALARM MANUAL PULL STATION. F.A. HEAT DETECTOR (RATE OF RISE) – CEILING OR WALL MOUNTED 120V SMOKE ALARM – CEILING OR WALL MOUNTED F.A. SMOKE DETECTOR – CEILING OR WALL MOUNTED F.A. DUCT SMOKE DETECTOR C/W REMOTE INDICATOR LIGHT MAIN FIRE ALARM CONTROL PANEL FIRE ALARM DATA GATHERING PANEL FIRE ALARM ANNUNCIATOR PANEL C/W GRAPHIC MAP EMERGENCY LIGHTING BATTERY UNIT C/W UNIT MOUNTED LED HEADS. CEILING OR WALL MOUNTED GREEN RUNNING MAN PICTOGRAM EXIT SIGNS, ARROW(S) INDICATE DIRECTION COMBINATION SMOKE ALARM, CARBON MONOXIDE DETECTOR & STROBE. 120V. COMBINATION SMOKE ALARM & STROBE. 120V SMOKE ALARM DETECTOR. 120V CARBON MONOXIDE DETECTOR. 120V WALL MOUNTED OUTDOOR BEACON/STROBE LIGHT		MISCELLANEOUS SYSTEMS U/G DUCT BANK ELECTRIC HEATER CONTROLLER, SUPPLIED BY OTHERS, INSTALLED BY DIVISION 26. ELECTRIC HAND DRYER, SUPPLIED BY OTHERS, INSTALLED AND WIRED BY DIVISION 26. VGA, HDMI MISCELLANEOUS SYSTEMS (DIV. 26 TO PROVIDE EMPTY CONDUITS, PULL WIRES AND OUTLET BACK BOXES ONLY, CABLING AND DEVICES BY SECURITY CONTRACTOR) CARD READER & MOTION SENSOR DOOR RELEASE SECURITY SYSTEM KEY PAD CCTV SURVEILLANCE CAMERA – PAN, TILT, ZOOM. CCTV SURVEILLANCE CAMERA – FIXED SECURITY CAMERA C/W PULL BOX IN CEILING AND 3/4" BACK TO COMMUNICATION ROOM. DOOR HOLDER HANDICAPPED DOOR OPENER HANDICAPPED OPERATOR PUSHBUTTON SECURITY DOOR CONTACT LOCATION SECURITY ELECTRIC STRIKE LOCATION EMERGENCY CALL STATION SECURITY MAGNETIC LOCK LOCATION ENTRANCE PHONE DOOR OPENER SMART ONE ENTERPHONE SMART ONE WALL PAD MISCELLANEOUS LEGEND DENOTES REFER TO NOTE DENOTES REFER TO DETAIL AND DRAWING NUMBER. WT DENOTES WATERTIGHT (CSA ENCLOSURE 4) WP DENOTES WEATHER PROOF (NEMA TYPE 3R) GFI DENOTES GROUND FAULT INTERRUPTER. WG DENOTES WIRE GUARD JB JUNCTION BOX AFF ABOVE FINISHED FLOOR TP TAMPER PROOF ST STOVE MD MOTORIZED DAMPER FR FRIDGE DW DISHWASHER

PANEL AND CIRCUIT NUMBER DESIGNATION

	TYPICAL PANEL NOMENCLATURE DESCRIPTION ARE AS FOLLOWS: CIRCUIT NUMBER LOCATION-FLOOR NUMBER DESIGNATION (A=2=NORMAL POWER EXCEPT E,F,W,Z=EMERGENCY POWER) VOLTAGE (2=208V OR 120/208V, 6=347/600V) PANELBOARD – 'PP' DENOTES POWER PANEL – 'LP' DENOTES LIGHTING PANEL TYPICAL PANEL NOMENCLATURE DESCRIPTION ARE AS FOLLOWS: FLOOR MOUNTED ELECTRICAL EQUIPMENT COMPLETE WITH 103MM HIGH HOUSEKEEPING PAD. LOCATION (1=FIRST FLOOR, 2=SECOND FLOOR) DESIGNATION (A=2=NORMAL POWER) VOLTAGE (2=208V OR 120/208V, 3=347V 1ø, 6=347/600V 3ø) 'DP' DENOTES DISTRIBUTION PANEL, 'MCC' DENOTES MOTOR CONTROL CENTRE, 'MS' DENOTES MAIN SWITCHBOARD, 'TX' DENOTES TRANSFORMER 'W' DENOTES WALL MOUNTED ELECTRICAL EQUIPMENT. 'SP' DENOTES SPLITTER TROUGH C/W ENCLOSURE TO MATCH 'DP' DENOTES DISTRIBUTION PANEL.
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GENERAL NOTES

- THIS IS A MASTER LEGEND. NOT ALL SYMBOLS SHOWN MAY BE USED ON THIS PROJECT.
- THESE DRAWINGS ARE DIAGRAMMATIC ONLY. BEFORE ANY ELECTRICAL EQUIPMENT IS ROUGHED IN, ITS EXACT LOCATION MUST BE DETERMINED FROM THE ARCHITECTURAL PLANS AND INTERIOR DESIGNER DRAWINGS DETAILS AND ELEVATIONS OR DETAILS ON THE ELECTRICAL DRAWINGS. WHERE THIS DETAILED INFORMATION IS NOT SHOWN ON THE DRAWINGS, VERIFY THE EXACT LOCATION ON SITE.
- ALL MEASUREMENTS SHOWN ON THE DRAWINGS ARE IN METRIC MILLIMETRE(S) OTHERWISE INDICATED.
- DETAILS ARE INTENDED TO BE FOR GENERAL ARRANGEMENTS ONLY. THEY DO NOT SHOW ALL NECESSARY COMPONENTS, BUT ARE MERELY A GUIDE AS TO THE ORIENTATION OF EQUIPMENT WHICH IS REQUIRED.
- PROVIDE ALL GROUNDING IN ACCORDANCE WITH THE RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- INDICATION ON SWITCH SAME AS FOR OUTLET(S) IT CONTROLS.
- ARROWHEAD ON CONDUIT INDICATES HOMERUN TO PANEL.
- ON ALL CONDUIT RUNS OF 33M OR MORE, INSTALL PULLBOXES WHERE REQUIRED TO SUIT SITE CONDITIONS.
- WHERE CONDUITS CROSS EXPANSION JOINTS OF BUILDING AS SHOWN ON ARCHITECTURAL DRAWINGS, PROVIDE APPROVED TYPE EXPANSION JOINTS COMPLETE WITH GROUNDING STRAPS AND CLAMPS.
- CO-ORDINATE ALL SWITCH AND RECEPTACLE LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO INSTALLATION.
- INSTALL ALL LIGHTING LUMINAIRES CONDUIT, HEAT DETECTORS ETC., IN MECHANICAL ROOMS, BOILER ROOMS, FAN ROOMS AND MACHINE ROOM AFTER MECHANICAL EQUIPMENT, DUCTS, PIPES, ETC., ARE IN PLACE. LOCATE LUMINAIRE WITH CHAIN HANGERS TO BEST POSSIBLE ADVANTAGE.
- VERIFY EXACT LOCATION OF ALL FLOOR OUTLETS BEFORE INSTALLATION OF CONDUIT
- WHERE SITE CONDITIONS INDICATE CONFLICT BETWEEN THE INSTALLATION OF ELECTRICAL EQUIPMENT AND/OR MECHANICAL EQUIPMENT OR STRUCTURAL MEMBERS, PREPARE COMPLETE INTERFERENCE DRAWINGS FOR DISCUSSION WITH RESPECTIVE CONSULTANTS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF LUMINAIRES, SPEAKER, DETECTORS AND CEILING MOUNTED RECEPTACLES.
- CO-ORDINATE EXACT LOCATION AND RATING OF ALL MOTORS AND STARTERS WITH MECHANICAL TRADE CONTRACTOR PRIOR INSTALLATION OF CONDUIT AND WIRING.
- DIV.26 TO COORDINATE WITH DIV.15 ON SITE FOR THE EXACT LOCATIONS AND INSTALLATION DETAILS FOR ALL DUCT SMOKE DETECTORS PRIOR TO INSTALLATION.
- RECEPTACLES SHALL BE MOUNTED DIRECTLY BELOW PULLSTATION AT EXITS (WHERE SHOWN TOGETHER) AND DIRECTLY BELOW SWITCHES AT ROOM ENTRANCES.
- ALL ELECTRICAL OPENINGS SHOWN ARE MINIMUM SIZE ONLY. ELECTRICAL CONTRACTOR TO DETERMINE, VERIFY AND SUBMIT SCALED ROUGH-IN DRAWINGS FOR ALL ELECTRICAL OPENINGS TO CONSULTANTS FOR REVIEW PRIOR TO CONSTRUCTION.
- AT ALL FLOOR/WALL OPENINGS AND SLEEVES FOR ELECTRICAL USE, DIV. 16 SHALL PROVIDE PROPER RE-ENTRY TYPE FIRE SEALANT/BARRIER MATERIAL AS DEFINED AND SPECIFIED.
- CONDUIT ROUTES ARE DIAGRAMMATIC ONLY. AT EXPOSED PRECAST SLAB RUN CONCEALED IN THE WALLS, DIV. 16 TO REFER TO MECHANICAL DRAWINGS OR CONTRACTOR FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT & DEVICES PRIOR TO ELECTRICAL ROUGHING-IN.
- UNLESS NOTED OTHERWISE, FAN CONTROLS ARE SUPPLIED BY DIVISION 25 AND INSTALLED BY DIVISION 26. DIVISION 26 TO SUPPLY AND INSTALL ALL 120V CONTROLLERS UNLESS OTHERWISE NOTED. DIVISION 25 IS RESPONSIBLE FOR STARTUP AND VERIFICATION OF ALL FAN AND CONTROLS.
- MOUNTING HEIGHTS OF RECEPTACLES, SWITCHES, AND THERMOSTATS ARE TO THE CENTERLINE OF DEVICES.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR REGARDING THE LOCATIONS OF ZONE DAMPERS AND TO PROVIDE POWER FROM THE NEAREST CIRCUIT / JUNCTION BOX.
- ALL MOTOR STARTERS ARE BY DIV. 15. DIV. 16 TO COORDINATE ON SITE FOR EXACT LOCATION OF ALL MOTOR STARTER LOCATION AND RUN POWER WIRING FROM ELECTRICAL PANEL TO STARTER/MAIN DISCONNECT SWITCH & WIRE BACK TO MOTOR (EXHAUST FANS) LOCATION AS REQUIRED TO SUIT. PUMP STARTERS ARE BY DIV. 15. REFER TO DETAILS FOR POWER WIRING REQUIREMENTS TO SUIT.
- DIV. 16 TO ENSURE ALL BRANCH FEEDER TO HAVE NOT MORE THAN 3% VOLTAGE DROP. DO NOT LOOP WIRING AND PROVIDE APPROPRIATE NUMBER OF BRANCH FEEDERS AS REQUIRED TO MEET CODE REQUIREMENT. DIV. 16 TO PROVIDE RAMP SNOW MELTING & C/W REQUIRED CABLE, SUB 14, SENSOR, CONTROLLER, PANEL, CONTACTOR, THERMOSTAT GFI SYSTEM, STRAP, POWER CONNECTION, END SEAL, ETC FOR A COMPLETE INSTALLATION & OPERATION TO SUIT. RAYCHEM, TYCO CONTROLS. DIV. 15 TO SUPPLY AND INSTALL PIPE TRACING SYSTEM (XL TRACE TYPE) AND INSTALLATION C/W ALL REQUIRED APPURTENANCES. DIV. 16 TO PROVIDE PROPER ELECTRICAL CONNECTION AS SHOWN IN ELECT. DWG. PLANS.
- DIV. 16 TO REFER TO ELECTRICAL RISERS & DETAILS DRAWINGS OF ELECTRICAL/MECHANICAL DEVICES INFORMATION FOR INSTALLATION INTENT & PURPOSES.
- DIV. 16 TO PROVIDE COMPLETE SYSTEM C/W WIRING, CABLING AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION AND OPERATION FOR RAMP SNOW MELTING.
- DIV. 16 TO PROVIDE REQUIRED JUNCTION BOXES, CONDUIT, POWER WIRING & CONTROL WIRING C/W PUSHBUTTON FOR HANDICAP AND OVERHEAD DOOR OPERATOR. DIV. 16 SHALL PIPE TRACE THE MECHANICAL PIPES PASSING THROUGHOUT THE UNCONDITIONED SPACE. COORDINATE WITH MECHANICAL DRAWINGS/CONTRACTOR ON SITE FOR EXACT STARTING AND TERMINATION POINTS.
- DIV. 16 TO PROVIDE NECESSARY EMERGENCY LTC, RELAY CONTACTOR /CONTROL UNIT IN ALL EMERGENCY LTC. CIRCUITS IN ORDER TO BYPASS SENSOR SWITCH IN AN EMERGENCY SITUATION. CONNECT RELAY CONTRACTOR TO NEAREST RECEPTACLE 120V NORMAL CIRCUIT OR NORMAL LIGHTING CIRCUIT AND OR FIRE ALARM CONTROL PANEL EMERGENCY RELAY CONTACTOR SHALL BE PROVIDED AS PER CODE REQUIREMENTS.
- DIV. 16 TO PROVIDE ELECTRICAL CONNECTION FROM ELECTRICAL PANEL/CONTROL PANEL TO VARIABLE FREQUENCY DRIVE (VFD) LOCATION. EXACT MOUNTING LOCATION TO BE COORDINATED ON SITE WITH MECHANICAL CONTRACTOR.
- DIV. 16 TO PROVIDE CONTROL WIRING C/W PROPER CONDUIT, WIRING, PUSHBUTTONS, JUNCTION BOXES FROM DOOR OPERATOR TO PUSHBUTTON LOCATION OF ALL EXIT DOOR SYSTEM. REFER TO DRAWING FLOOR PLAN FOR EXACT LOCATION AND QUANTITY.
- DIV. 16 TO COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND PROVIDE NECESSARY ELECTRICAL CONNECTION REQUIREMENT FOR A COMPLETE OPERATION/INSTALLATION AS PER MECHANICAL SCHEDULE.
- DIV. 16 TO COORDINATE WITH ALL ELECTRICAL EQUIPMENT SUPPLIER FOR POWER, PLUG, CONNECTION, BREAKER AND CONTROL WIRING REQUIREMENT AND PROVIDE AS REQUIRED FOR A COMPLETE OPERATION AND INSTALLATION.
- DIV. 16 TO PROVIDE SHUNT RELAY FOR ALL EMERGENCY LIGHTING FIXTURES THAT ARE CONTROLLED BY A SWITCH/SENSOR AND SHALL BE AN APPROVED TYPE, ULC 120/347V, 1P, 15A.

ELECTRICAL DRAWING LIST

DWG No.	DESCRIPTION	DWG No.	DESCRIPTION
E-001	ELECTRICAL LEGEND, GENERAL NOTES & DRAWING LIST	E-900	ELECTRICAL DETAILS
E-002	ELECTRICAL SPECIFICATIONS	E-901	ELECTRICAL DETAILS AND SCHEDULE
E-100	ELECTRICAL SITE PLAN	E-902	ELECTRICAL DETAILS
E-101	ELECTRICAL SITE PLAN DETAILS	E-903	ELECTRICAL DETAILS
E-102	ELECTRICAL SITE PLAN LIGHTING DETAILS		
E-200	ELECTRICAL GROUND FLOOR LIGHTING PLAN		
E-201	ELECTRICAL GROUND FLOOR POWER & SYSTEMS PLAN		
E-300	ELECTRICAL SECOND FLOOR LIGHTING PLAN		
E-301	ELECTRICAL SECOND FLOOR POWER & SYSTEMS PLAN		
E-400	ELECTRICAL THIRD FLOOR LIGHTING PLAN		
E-401	ELECTRICAL THIRD FLOOR POWER & SYSTEMS PLAN		
E-500	ELECTRICAL ROOF FLOOR PLAN		
E-600	SINGLE LINE DIAGRAM		
E-700	ELECTRICAL FIRE DETAILS AND SCHEDULE		
E-800	SECURITY AND COMMUNICATION DETAILS		
E-800A	SECURITY DETAILS		
E-900A	ELECTRICAL PANEL SCHEDULES		
E-900B	ELECTRICAL PANEL SCHEDULES		
E-900C	ELECTRICAL PANEL SCHEDULES		
E-901	ELECTRICAL DETAILS AND SCHEDULE		
E-902	ELECTRICAL DETAILS		
E-903	ELECTRICAL DETAILS		

CONSULTING ENGINEERS LIGHTING - ELECTRICAL
595 CITYVIEW BLVD, SUITE 204/205
VAUGHAN, ONTARIO, CANADA L4H 3M7
Tel: (905) 417-8881 Fax: (905) 417-8882
www.e-lumen.ca



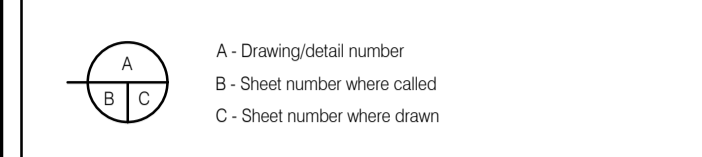
Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
20 SOUTH STREET, TRENTON, ON
City of Quinte West

Sheet Title
ELECTRICAL LEGEND, DRAWING LIST AND GENERAL NOTES

Drawn DD/MU	Checked BV
Date June 2023	Scale N.T.S

Project Number 23-019	Sheet Number E-001
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CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS. REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS.



No.	Date	Description	By
1	2024/04/12	ISSUED FOR PERMIT	BV
2	2024/07/30	ISSUED FOR TENDER	BV

ISSUES/REVISIONS

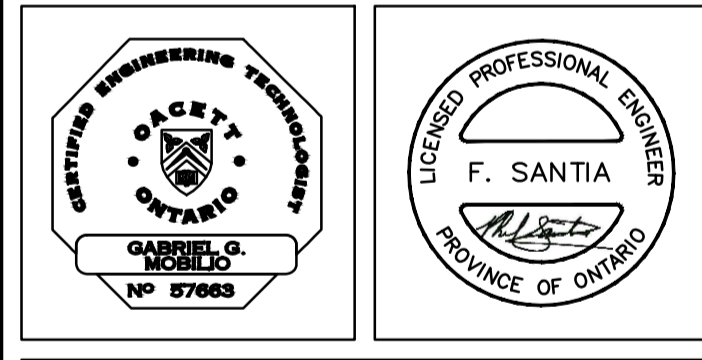
No.	Date	Description	By

PRIOR TO PROJECT CONSTRUCTION COMPLETION!!!

GENERAL CONTRACTOR - MANDATORY DELIVERABLES (WHERE APPLICABLE)

ALL ITEMS LISTED BELOW ARE TO BE DELIVERED TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION FOR THIS BUILDING PERMIT

- ALL OPERATION AND MAINTENANCE MANUALS
- ALL PRODUCT DATA THAT PERTAINS TO ALL FIRESTOPPING MATERIALS USED
- VERIFICATION LETTER BY A CERTIFIED AND LICENSED SPRINKLER AND LIFE SAFETY SYSTEMS CONTRACTOR - LETTER TO VERIFY INSTALLATION AND/OR MODIFICATIONS AND TESTING PERFORMED AND COMPLETED IN ACCORDANCE WITH NFPA 13
- ALL ESA REPORTS, FINAL SIGN OFF AND PERMITS
- VERIFICATION LETTER BY A CERTIFIED AND LICENSED EMERGENCY LIGHTING AND LIFE SAFETY SYSTEMS CONTRACTOR
- CERTIFICATES OF FIRE ALARM VERIFICATION
- HYDRO INSPECTION CERTIFICATES
- EMERGENCY LIGHTING TEST REPORT
- TESTING, AIR BALANCING, ADJUSTING REPORTS FOR ALL HVAC SYSTEMS
- ALL STRUCTURAL, STEEL SHOP DRAWINGS AND ENGINEERING REVIEWS
- ALL SITE VISIT REPORTS PROVIDED BY PROFESSIONAL DISCIPLINES
- OCCUPANCY AND COMPLIANCE LETTERS FROM ALL PROFESSIONAL DISCIPLINES



Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
20 SOUTH STREET,
TRENTON, ON
City of Quinte West

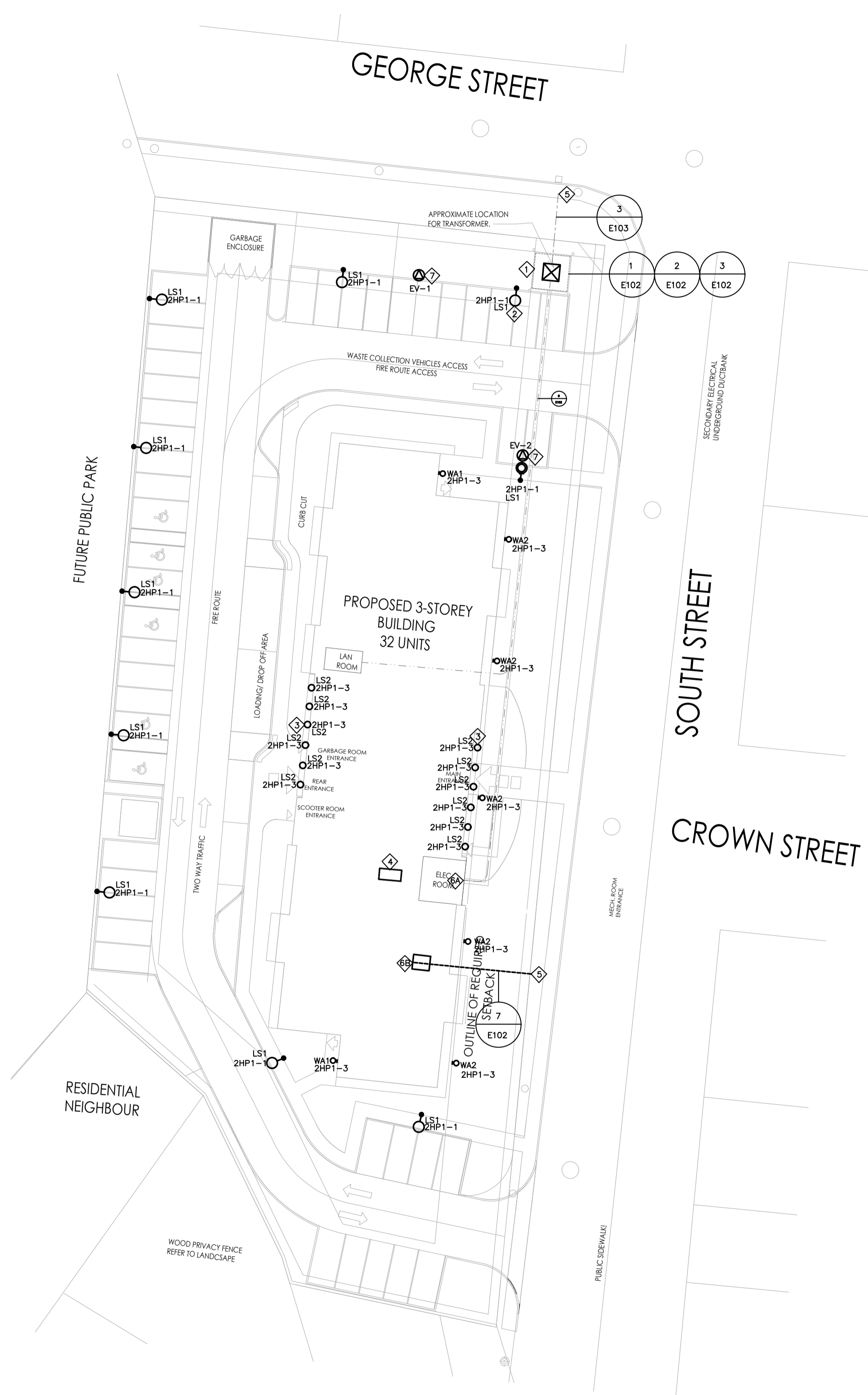
Sheet Title
ELECTRICAL SPECIFICATION

Drawn DD/MU	Checked BV
Date June 2023	Scale N.T.S

Project Number 23-019	Sheet Number E-002
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- CODES & STANDARDS**
 - COMPLETE THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ONTARIO BUILDING CODE, ONTARIO ELECTRICAL SAFETY CODE, C.S.A. STANDARDS, U.L.C., N.F.P.A., O.H.S.A. AND OTHER CODES, AS REQUIRED. COMPLY WITH ELECTRICAL AND BUILDING CODE BULLETINS IN FORCE AT TIME OF BID SUBMISSION, WHILE NOT IDENTIFIED AND SPECIFIED BY NUMBER IN THIS DIVISION, THEY ARE TO BE CONSIDERED AS FORMING PART OF RELATED STANDARDS. ALSO, ALL ELECTRICAL WORK SHALL COMPLY WITH LANDLORD'S REQUIREMENTS AND BASE BUILDING STANDARDS.
- DEFINITIONS**
 - WHEREVER THE WORDS "PROVIDE" OR "SUPPLY AND INSTALL", ARE USED, IT SHALL BE UNDERSTOOD TO MEAN "PROVIDE AND INSTALL, INCLUSIVE OF ALL LABOUR, MATERIALS, INSTALLATION, TESTING, AND CONNECTIONS" FOR THE ITEM TO WHICH IT REFERENCES.
 - WHEREVER THE WORDS "EQUAL", "APPROVED", OR "APPROVED EQUAL" ARE USED, IT SHALL BE UNDERSTOOD TO MEAN "EQUAL", "APPROVED", OR "APPROVED EQUAL" IN THE OPINION OF THE CONSULTANT ONLY.
- MATERIALS AND EQUIPMENT**
 - ALL MATERIALS AND EQUIPMENT SHALL BE NEW, C.S.A. CERTIFIED AND MANUFACTURED TO THE STANDARDS SPECIFIED.
 - WHERE THERE IS NO ALTERNATIVE TO SUPPLYING EQUIPMENT WHICH IS NOT C.S.A. CERTIFIED, OBTAIN SPECIAL APPROVAL FROM THE ELECTRICAL SAFETY AUTHORITY.
- PERMITS AND FEES**
 - THE ELECTRICAL CONTRACTOR SHALL ACT AS THE OWNER'S AGENT IN ACCORDANCE WITH SECTION 2 OF THE O.E.S.C. AND SHALL IMMEDIATELY UPON AWARD OF CONTRACT, SUBMIT TO THE LOCAL ELECTRICAL INSPECTION DEPARTMENT, THE NECESSARY NUMBER OF DOCUMENTS FOR EXAMINATION, SPECIAL INSPECTION AND APPROVAL, PRIOR TO THE COMMENCEMENT OF THE WORK, AND PAY ALL COSTS AND ASSOCIATED FEES, IF REQUIRED, PREPARE ANY ADDITIONAL DRAWINGS/DOCUMENTS REQUIRED BY THE AUTHORITY.
 - THE CONSULTANT WILL PROVIDE UPON REQUEST, AT THE CONTRACTOR'S COST, THE REQUIRED QUANTITY OF DRAWINGS.
 - PROVIDE CERTIFICATE(S) OF ACCEPTANCE FROM THE AUTHORITIES INSPECTION DEPARTMENT, UPON COMPLETION OF WORK.
- INSURANCE**
 - PROVIDE AND MAINTAIN INSURANCE TO PROTECT THE OWNER AND TRADES FROM ALL POSSIBLE CLAIMS. SUBMIT WITH BID FOR AN AMOUNT ACCEPTABLE TO OWNER.
- CONTRACT DOCUMENTS**
 - THE DRAWINGS FOR THE ELECTRICAL WORK ARE DIAGRAMMATIC PERFORMANCE DRAWINGS ONLY, INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT AND APPROXIMATE SIZE AND LOCATION OF ELECTRICAL DETAILS. THE DRAWINGS DO NOT INTEND TO SHOW ARCHITECTURAL, INTERIOR DESIGN, MECHANICAL, STRUCTURAL OR BASE BUILDING DETAILS. BE RESPONSIBLE FOR A THOROUGH KNOWLEDGE OF SAME BEFORE PROCEEDING WITH THE WORK.
 - DO NOT SCALE OR MEASURE DRAWINGS, BUT OBTAIN INFORMATION REGARDING ACCURATE DIMENSIONS FROM THE DIMENSIONS SHOWN ON THE DESIGN CONSULTANT'S/ARCHITECT'S DRAWINGS, OR BY SITE REQUIREMENTS.
 - ANY DISCREPANCIES BETWEEN DRAWINGS AND/OR SPECIFICATIONS MUST BE REFERRED TO THE DESIGN CONSULTANT/ARCHITECT BEFORE ANY WORK AFFECTED IS BEGUN.
 - COOPERATE AND COORDINATE WITH OTHER CONTRACTORS IN LAYING OUT OF WORK SO AS NOT TO CONFLICT WITH THE WORK OF OTHER CONTRACTORS. CARRY OUT WORK PROMPTLY AS PER CONSTRUCTION SCHEDULE AND COORDINATE WITH WORK OF OTHER CONTRACTORS.
 - MAKE, AT NO ADDITIONAL COST, ANY CHANGES OR ADDITIONS TO MATERIALS AND EQUIPMENT NECESSARY TO ACCOMMODATE STRUCTURAL CONDITIONS (OFFSETS AROUND BEAMS, COLUMN, ETC.)
- INTENT**
 - IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT THE CONTRACTOR PROVIDES COMPLETE AND OPERATIONAL SYSTEMS AS REQUIRED, WHERE DIFFERENCES OCCUR, THE MAXIMUM CONDITION SHALL GOVERN.
 - ANY MISCELLANEOUS ITEMS, HARDWARE, DEVICES, WIRING, ETC., NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR THE OPERATION OF THE SYSTEM, MUST BE PROVIDED AND INCLUDED AS PART OF THE BID.
- SHOP DRAWINGS**
 - SUBMIT FOUR (4) COPIES OF SHOP DRAWINGS OF ALL SPECIFIED EQUIPMENT FOR REVIEW AND RECORDS BEFORE COMMENCEMENT OF WORK.
 - CHANGES MADE TO THE SHOP DRAWINGS BY THE CONSULTANT WILL NOT AFFECT THE CONTRACT PRICE.
- INSERTS, HANGERS AND SLEEVES**
 - PROVIDE HANGERS, INSERTS, SLEEVES AND SUPPORTS AS REQUIRED.
 - INSERTS ARE TO BE OF A LEAD SHIELD TYPE.
 - HANGERS MUST NOT BE WELDED TO STRUCTURAL STEEL MEMBERS AND BURNING OF HOLES IN STRUCTURAL STEEL IS PROHIBITED.
 - SLEEVES ARE TO BE OF A TYPE SUITABLE FOR THE APPLICATION AND BE SEALED AND MADE WATERTIGHT. SLEEVES THROUGH CONCRETE SHALL BE SCHEDULE 40 STEEL PIPES, SIZED FOR FREE PASSAGE OF CONDUIT AND INSTALLED FLUSH WITH UNDERSIDE OF CONCRETE SLAB AND EXTEND 100MM (4") ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
 - DO NOT USE ANY BUILDING SUPPORTS OR EQUIPMENT, INCLUDING CEILING SUPPORT SYSTEM.
- CUTTING AND PATCHING**
 - ALL CUTTING AND PATCHING REQUIRED TO THE BUILDING STRUCTURE FOR THE WORK SHALL BE INCLUDED UNDER THIS CONTRACT AND BE ACCEPTABLE TO THE OWNER.
 - WHERE CONDUITS PASS THROUGH FIRE RATED WALLS OR FLOORS, PROVIDE FIRE STOPPING MATERIAL LISTED WITH, AND BEAR LABEL OF CSA AND ULC, AND MAINTAIN SAME FIRE RATING OF BUILDING COMPONENT PENETRATION.
- LOCATION OF OUTLETS**
 - REFER TO DESIGN CONSULTANT'S/ARCHITECT'S DRAWINGS FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES AND WIRING DEVICES.
 - CHANGE LOCATION OF OUTLETS AT NO COST OR CREDIT, PROVIDING DISTANCE DOES NOT EXCEED 3M (10'-0") AND INFORMATION IS GIVEN PRIOR TO INSTALLATION.
 - ALL OUTLETS TO BE MARKED ON JOB SITE FOR APPROVAL BY DESIGN CONSULTANT/ARCHITECT PRIOR TO INSTALLATION.
- PLYWOOD**
 - PROVIDE ALL PLYWOOD BACKBOARDS REQUIRED FOR THE WORK OF THIS DIVISION. PLYWOOD BACKBOARDS SHALL BE 21MM (3/4") THICK, OF HIGHEST QUALITY FIRE RETARDANT FIR. REFER TO DRAWINGS FOR SIZE, PRIME AND PAINT BACKBOARDS WITH FIRE RETARDANT PAINT EQUAL TO CGSB SPEC. #1-GP-151M, OF A COLOUR AS SELECTED BY THE DESIGN CONSULTANT/ARCHITECT.
- ACCESS DOORS**
 - WHEREVER ANY ELECTRICAL EQUIPMENT REQUIRES ACCESSIBILITY, MAINTENANCE OR ADJUSTMENT, PROVIDE ACCESS DOORS APPROVED BY DESIGN CONSULTANT/ARCHITECT AND OWNER. ARRANGE FOR ITS INSTALLATION BY THE DIVISION IN WHOSE WORK IT OCCURS.
- CORE DRILLING**
 - BEFORE CORE DRILLING FLOOR SLAB OR STRUCTURAL WALLS, X-RAY SLAB OR WALLS AND HAVE THE LOCATIONS ACCEPTED BY THE OWNER IN WRITING.
 - ANY BUILDING SERVICE DAMAGED BY CORE DRILLING MUST BE REPAIRED IMMEDIATELY AT NO COST TO THE OWNER.
 - FLOOR DRILLING TO BE CARRIED OUT AT A TIME ACCEPTABLE TO THE OWNER AND ALLOWANCES FOR THIS WORK SHALL BE INCLUDED IN BID PRICE SUBMITTED.
- NOISE AND VIBRATION**
 - ELECTRICAL EQUIPMENT IS TO OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION. IF, IN THE OPINION OF THE CONSULTANT, THE EQUIPMENT OPERATES WITH EXCESSIVE NOISE OR VIBRATION, THEN THE EQUIPMENT MUST BE REPLACED OR NOISE OR VIBRATION ELIMINATED.
 - CONNECTIONS TO NOISE-PRODUCING AND VIBRATING EQUIPMENT MUST BE MADE WITH FLEXIBLE CONDUIT. THIS INCLUDES TRANSFORMERS, DIMMING EQUIPMENT RACKS, AND MOTORS. USE A MINIMUM OF 1M (3 FT) OF FLEXIBLE CABLE WITH SLACK AT EACH DEVICE.
 - VIBRATION ISOLATORS ARE TO BE PROVIDED WHERE INDICATED OR REQUIRED. TRANSFORMERS TO BE ISOLATED FROM THE STRUCTURE, WITH SPRING AND RUBBER ISOLATORS WHEN WALL MOUNTED OR SUSPENDED AND 12MM (1/2") HIGH DENSITY NEOPRENE SANDWICH PADS (TYPE MWP) WHEN FLOOR MOUNTED.
- IDENTIFICATION**
 - PROVIDE LAMACOID NAMEPLATES ON ALL PANELS; DISCONNECT SWITCHES, SPLITTERS, ETC., NAMEPLATES SHALL BE MECHANICALLY ATTACHED TO EQUIPMENT BY MEANS OF RIVETS OR SELF TAPPING SCREWS.
 - PROVIDE TYPEWRITTEN DIRECTORIES FOR ALL PANELS.
 - CLEARLY MARK ALL EXPOSED CONDUIT, PULLBOXES, JUNCTION BOXES, ETC., TO INDICATE THE NATURE OF THE SERVICE TO MATCH BASE BUILDING STANDARDS.
- VALUATION OF CHANGES**
 - PROVIDE COMPLETE BREAKDOWN OF MATERIAL, LABOUR, OVERHEAD, PROFIT, ETC., WHEN SUBMITTING QUOTATIONS FOR CHANGE NOTICES ON THIS PROJECT.
 - THE HOURLY LABOUR RATE SHALL BE INCLUSIVE OF ALL CHARGES FOR SUPERVISION, VARIABLE LABOUR FACTORS, HAND TOOLS, PATROLL BURDENS, HEIGHT FACTORS, WARRANTIES, STORAGE, RENTALS, ADDITIONAL BONDING, PARKING, CLEAN-UP, AS-BUILT DRAWINGS, HOISTING, FREIGHT AND DELIVERY, BUT EXCLUSIVE OF OVERHEAD AND PROFIT.
 - THE LABOUR HOURS SHALL BE BASED ON THE LATEST ISSUE OF THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) LABOUR UNITS, COLUMN ONE NORMAL FOR THE DURATION OF THIS CONTRACT.
 - THE MATERIAL PRICES SHALL BE BASED ON THE CURRENT NATIONAL PRICES SYSTEM (NPS) CATALOGUE LESS APPLICABLE TRADE DISCOUNTS.
- ENGINEERS FINAL INSPECTION**
 - FINAL INSPECTION IS IMPERATIVE. PRIOR TO CLOSING OF CEILING, THIS CONTRACTOR SHALL CONTACT E-LUMEN INTERNATIONAL INC. (905) 417-8881 AND THE OWNER'S REPRESENTATIVE TO PERFORM A FINAL INSPECTION WHEN CEILING TILES HAVE BEEN INSTALLED IT WILL BE NECESSARY FOR THE CONTRACTOR TO REMOVE PORTIONS FOR INSPECTION.
- COMPLETION OF CONTRACT**
 - ALL EQUIPMENT MUST BE CLEANED AND TESTED BEFORE FINAL ACCEPTANCE BY CONSULTANT.
 - FROM THE DATE OF ISSUANCE OF A "CERTIFICATE OF SUBSTANTIAL PERFORMANCE", PROVIDE A WRITTEN GUARANTEE FOR ONE YEAR COVERING ALL EQUIPMENT, MATERIALS AND WORKMANSHIP, OTHER THAN LAMPS, INSERT IN OPERATIONS AND MAINTENANCE MANUAL.
 - DEFECTS AND DEFICIENCIES WHICH ORIGINATE OR BECOME EVIDENT DURING THE WARRANTY PERIOD MUST BE REPAIRED OR REPLACED, AT NO COST.
 - REPLACE, AT NO COST, ALL INCANDESCENT LAMPS BURNED-OUT DURING A THIRTY (30) DAY PERIOD AND ALL BURNED-OUT FLUORESCENT AND HID LAMPS FOR A PERIOD OF NINETY (90) DAYS AFTER DATE OF ISSUANCE OF CERTIFICATE OF "SUBSTANTIAL PERFORMANCE" FOR THE CONTRACT FOR THE WORK.
 - IF, DURING THE WARRANTY PERIOD, TRANSFORMERS, BALLASTS OR OTHER NOISE AND VIBRATION PRODUCING EQUIPMENT ARE CONSIDERED BY THE CONSULTANT TO EXCEED ACCEPTABLE STANDARDS, THEN THESE MUST BE REPLACED WITHOUT DELAY OR ADDITIONAL COST TO THE OWNER. ALL WORK RELATING TO THE REPLACEMENT OF DEFECTIVE ITEMS, MUST BE CARRIED OUT AFTER NORMAL WORKING HOURS AND AT A TIME WHICH IS ACCEPTABLE TO THE OWNER.

- AS-BUILT DRAWINGS**
 - AT THE COMPLETION OF WORK AND BEFORE FINAL ACCEPTANCE, PROVIDE AS-BUILT DRAWINGS OF THE INSTALLATION IN AUTOCAD RELEASE 2013 FORMAT. AN ELECTRONIC COPY (AUTOCAD FORMAT) OF ALL DRAWINGS WILL BE PROVIDED TO THE ELECTRICAL CONTRACTOR BY THE CONSULTANT AT NO COST. THE DRAWINGS WILL REFLECT THE TENDER AND/OR CONSTRUCTION SET OF DRAWINGS. SHOULD THE CONTRACTOR REQUIRE ADDITIONAL ELECTRONIC COPIES DURING CONSTRUCTION, A COST OF \$100.00 PER DRAWING (PLUS HST) WILL BE CHARGED BY THE CONSULTANT.
 - INCORPORATE ALL CHANGES AND DEVIATIONS FROM TENDER DRAWINGS, UTILIZING NORMAL RECOGNIZED DRAFTING PROCEDURES THAT MATCH THE ORIGINAL DRAFTING METHODOLOGY.
 - ALL MAIN BRANCH CONDUIT RUNS, JUNCTION BOX LOCATIONS, CONDUIT RUNS FOR ALL FLOOR OUTLETS, ETC., MUST BE REFLECTED ON THE DRAWINGS.
 - REMOVE THE ELECTRICAL ENGINEER'S STAMP AND COMPANY NAME FROM ALL DRAWINGS.
 - CLEARLY INDICATE THE WORDS "AS-BUILT" IN THE TITLE BLOCK COLUMN OF THE DRAWINGS AS WELL AS THE ELECTRICAL CONTRACTOR'S NAME AND ADDRESS.
 - SUBMIT A PRINT TO CONSULT FOR REVIEW, WHEN FOUND ACCEPTABLE BY THE CONSULTANT, SUBMIT THREE (3) SETS OF PRINTS TOGETHER WITH THE CAD-DISK FOR PRESENTATION TO THE OWNER.
- OPERATION AND MAINTENANCE MANUALS**
 - PROVIDE TWO (2) SETS OF OPERATION AND MAINTENANCE MANUALS SUBMITTED IN HARD COVER 3-RING BINDERS. INCLUDE THE FOLLOWING INFORMATION IN THE OPERATIONS AND MAINTENANCE MANUALS:
 - NAMES AND ADDRESS OF LOCAL SUPPLIERS FOR THE ITEMS INCLUDED.
 - TECHNICAL DATA, PRODUCT DATA, SUPPLEMENTED BY BULLETINS, COMPONENT ILLUSTRATIONS, EXPLODED VIEWS, TECHNICAL DESCRIPTIONS OF ITEMS, AND PARTS LISTS. ADVERTISING OR SALES LITERATURE IS NOT ACCEPTABLE.
 - THE CONSULTANT'S REVIEWED SHOP DRAWINGS.
 - CERTIFICATE(S) OF ACCEPTANCE FROM THE AUTHORITIES INSPECTION DEPARTMENT.
 - VERIFICATION REPORTS AND CERTIFICATE(S) FOR FIRE ALARM SYSTEMS AND MISCELLANEOUS SYSTEMS (I.E. SECURITY, LIGHTING CONTROL, DIGITAL METERING).
 - LOAD BALANCE REPORT.
 - WRITTEN GUARANTEE.
 - REVIEW INFORMATION PROVIDED IN THE MAINTENANCE INSTRUCTIONS AND MANUALS WITH THE OWNER'S OPERATING PERSONNEL TO ENSURE A COMPLETE UNDERSTANDING OF THE ELECTRICAL EQUIPMENT AND SYSTEMS AND THEIR OPERATION.
- MATERIALS AND METHODS**
 - CONDUITS AND CONDUIT FITTINGS**
 - PROVIDE ALL CONDUIT UP TO AND INCLUDING 103MM (4") SIZE, AS EMT THIN WALL WITH STEEL SET SCREW TYPE FITTINGS AND WEATHERPROOF CONNECTORS WITH "O" RINGS IN SPRINKLERED BUILDINGS. BUSHINGS AND CONNECTORS TO BE C/W INSULATED THROAT.
 - PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTORS.
 - INSTALL CONDUITS TO CONSERVE HEADROOM, PARALLEL AND PERPENDICULAR TO BUILDING LINES. DO NOT CADDIE CLIP CONDUITS TO CEILING HANGERS.
 - ALL EMPTY CONDUITS SHALL BE COMPLETE WITH NYLON FISH WIRE.
 - RUN TWO (2) 27MM (1") SPARE CONDUITS UP TO CEILING SPACE FOR EACH RECESSED PANELBOARD. TERMINATE THESE CONDUITS IN A 155MMX155MMX103MM (6"X6"X4") COVERED JUNCTION BOX IN CEILING SPACE.
 - ALL COMMUNICATIONS CONDUIT SHALL BE REAMED AND INSTALLED COMPLETE WITH INSULATED BUSHINGS AT EACH END. THE CONTRACTOR SHALL INFORM THE CONSULTANT OF ANY COMMUNICATIONS CONDUIT LENGTHS IN EXCESS OF 70M (230 FT) PRIOR TO INSTALLATION.
 - ALL COMMUNICATIONS CONDUIT SHALL BE REAMED AND INSTALLED COMPLETE WITH INSULATED BUSHINGS AT EACH END. THE CONTRACTOR SHALL INFORM THE CONSULTANT OF ANY COMMUNICATIONS CONDUIT LENGTHS IN EXCESS OF 70M (230 FT) PRIOR TO INSTALLATION.
 - SPLITTERS, JUNCTION BOXES AND PULL BOXES**
 - SPLITTERS SHALL HAVE SHEET STEEL ENCLOSURE, WITH WELDED CORNERS AND FORMED HINGED COVER SUITABLE FOR LOCKING IN CLOSED POSITION. CONNECTION BARS ARE TO MATCH REQUIRED SIZE AND NUMBER OF INCOMING AND OUTGOING CONDUCTORS AS INDICATED.
 - JUNCTION BOXES AND PULLBOXES SHALL BE SUITABLE FOR SURFACE MOUNTING AND BE OF WELDED STEEL CONSTRUCTION WITH SCREW-ON FLAT COVERS.
 - FOR FLUSH-MOUNTED PULL AND JUNCTION BOXES, PROVIDE COVERS WITH 27MM (1") MINIMUM EXTENSION ALL AROUND.
 - INSTALL JUNCTION AND PULL BOXES IN INCONSPICUOUS BUT ACCESSIBLE LOCATIONS.
 - A MINIMUM OF ONE PULL BOX SHALL BE INSTALLED FOR EVERY 100 FT. (30M) OF CONDUIT. (NOTE: EACH 90 DEG. BEND SHALL EQUATE TO A 30 FT. (9M) LENGTH OF CONDUIT).
 - NO MORE THAN TWO (2) - 90 DEG. BENDS SHALL BE INSTALLED BETWEEN ANY TWO ADJACENT PULL BOXES.
 - OUTLET BOXES**
 - OUTLET BOXES SHALL BE ELECTRO-GALVANIZED STEEL, SIZED AS REQUIRED BY CODE.
 - PROVIDE EACH LIGHT SWITCH, RECEPTACLE, COMMUNICATION AND OTHER OUTLET WITH AN OUTLET BOX. INSTALL PLUMB AND TRUE. PROVIDE 76MM (3") DEEP 100A BOXES FOR DIMMING SWITCHES.
 - ADAPT ALL OUTLET BOXES TO THEIR RESPECTIVE LOCATIONS AND SUPPORT INDEPENDENTLY OF THE CONDUIT. DO NOT CADDIE CLIP TO CEILING HANGERS.
 - PROVIDE BLANK COVERPLATES FOR BOXES WITHOUT WIRING DEVICES.
 - DO NOT INSTALL OUTLET BOXES BACK TO BACK IN PARTITIONS. STAGGER TO PREVENT SOUND TRANSFER.
 - TWO OR MORE OUTLET BOXES THAT OCCUR AT THE SAME LOCATION SHALL BE GANGED TOGETHER IN THE SAME COVERPLATE UNLESS OTHERWISE NOTED.
 - GROUNDING**
 - GROUND ALL EQUIPMENT IN ACCORDANCE WITH LATEST EDITION OF THE ELECTRICAL SAFETY CODE. PROVIDE SEPARATE GREEN INSULATED GROUND CONDUCTOR IN EVERY CONDUIT TO ALL DEVICES, LUMINAIRES AND FEEDERS (PANELBOARDS, SPLITTERS, DISCONNECT SWITCHES, ETC.).
 - WIRE AND CABLE**
 - ALL WIRE AND CABLE SHALL BE COPPER, MINIMUM 12 GAUGE, NO. 12 AND NO. 10 SOLID, NO. 8 AND LARGER STRANDED, WITH RW90 (75°C) INSULATION, 600VOLT RATING.
 - 8X#12 MAY BE USED IN CEILING SPACE FROM CEILING DISTRIBUTION BOX DOWN TO RECEPTACLES IN PARTITIONS. 8X RUN IN CEILING SPACE NO TO EXCEED 3048MM(10'-0") IN LENGTH. DO NOT RUN BX CABLES INTO PANELBOARDS.
 - SIZE ALL WIRE FOR MAXIMUM 2% VOLTAGE DROP.
 - ALL HOME RUNS TO BE IN CONDUIT.
 - LOCAL SWITCHES**
 - PROVIDE SPECIFICATION GRADE LOCAL 20A, 120 VOLT SWITCHES, A.C. TYPE WHITE WITH WHITE MATCHING COVERPLATES:
 - P&S #2621 SERIES C/W SCREWLESS FACEPLATES
 - HUBBELL #HBL2121 SERIES C/W SCREWLESS FACEPLATES
 - LUTRON CLARO SERIES C/W SCREWLESS FACEPLATESREFER TO LEGEND FOR OTHER TYPES.
 - RECEPTACLES**
 - PROVIDE SPECIFICATION GRADE 15A, 120 VOLT, "U" GROUND RECEPTACLES, DUPLEX TYPE WHITE WITH WHITE MATCHING COVERPLATES:
 - P&S #2622 SERIES C/W SCREWLESS FACEPLATES
 - HUBBELL #HBL2152 SERIES C/W SCREWLESS FACEPLATES
 - LUTRON CLARO SERIESREFER TO LEGEND FOR OTHER TYPES.
 - RECEPTACLES ON SEPARATE CIRCUITS ARE TO HAVE CIRCUIT NUMBER IDENTIFIED ON THE WALL PLATE AND FURTHER IDENTIFIED WITH THE EXACT LOCATION LISTED IN THE PANEL DIRECTORY.
 - MECHANICAL TRADE WIRING**
 - UNLESS OTHERWISE NOTED, ALL STARTERS AND CONTROL WIRING TO BE PROVIDED BY DIVISION 15. DIVISION 16 TO RECEIVE, INSTALL STARTERS AND PROVIDE ALL POWER WIRING AND REQUIRED ISOLATING DISCONNECT SWITCHES.
 - CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH DIVISION 15 PRIOR TO INSTALLATION.
 - LUMINAIRES**
 - PROVIDE ALL LUMINAIRES AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THE LUMINAIRE SCHEDULE.
 - ALL LUMINAIRES SHALL BE COMPLETE WITH NEW LAMPS, BALLASTS, ACCESSORIES AND MOUNTING APPURTENANCES.
 - ALL LUMINAIRES TO BE CSA APPROVED.
 - AIM AND ADJUST ALL LUMINAIRES IN PRESENCE OF CONSULTANT.
 - ALL NEW DOWNLIGHTS AND FLUORESCENT LUMINAIRES INSTALLED ON DRYWALL OR T-BAR BUILDING CEILING SHALL BE INDEPENDENTLY SUPPORTED FROM BUILDING STRUCTURE WITH TENSO CHAINS UNLESS OTHERWISE NOTED.
 - COOPERATE WITH ALL OTHER TRADES FOR THE PROPER INSTALLATION OF ALL LUMINAIRES.
 - MEGGERING AND BALANCING**
 - MEGGER ALL POWER CIRCUIT FEEDERS, IF GROUND RESISTANCE ON ANY CIRCUIT IS LESS THAN THAT REQUIRED BY CSA OR OTHER GOVERNING REGULATIONS, SUCH CIRCUITS ARE TO BE CONSIDERED DEFECTIVE AND MUST BE REPLACED.
 - MEASURE PHASE CURRENT TO PANELBOARDS WITH NORMAL LOADS OPERATING AT TIME OF ACCEPTANCE. ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN BEST BALANCE (NOT MORE THAN 10%) OF CURRENT BETWEEN PHASES AND SUBMIT A REPORT FOR INSERTION INTO MANUALS.
 - SERVICE EQUIPMENT**
 - ALL PANELBOARDS SHALL BE WITH COPPER LUGS, DISCONNECT SWITCHES, ETC., TO BE OF ONE MANUFACTURE, UNLESS OTHERWISE NOTED. MOLDED CASE CIRCUIT BREAKERS TO BE BOLT-ON TYPE, MANUFACTURERS: SCHNEIDER, OUTLER-HAMMER AND SIEMENS.
 - DRY TYPE TRANSFORMERS SHALL BE WITH A K FACTOR OF 13 AND WITH ELECTROSTATICALLY SHIELDED COPPER WINDINGS. PROVIDE DOUBLE LUGS ON TRANSFORMER NEUTRALS FOR CONNECTION OF CABLES. MANUFACTURER OF TRANSFORMERS MUST BE: SCHNEIDER DELTA HAMMOND ATLAS.
 - CEILING MOUNT TRANSFORMERS UP TO 45 KVA WITH SUSPENSION RODS AND SPRING ISOLATORS, TRANSFORMERS 75 KVA AND LARGER TO BE FLOOR MOUNTED ON KOPFUNG ISOLATION PADS UNLESS OTHERWISE NOTED.
 - PROVIDE SHORT CIRCUIT PROTECTION AND COORDINATION STUDY OF THE ENTIRE DISTRIBUTION SYSTEM. ENSURE PROPER INFORMATION IS OBTAINED INCLUDING HYDRO TRANSFORMER RATINGS. COORDINATION STUDY SHALL BE SUBMITTED TO CONSULTANT PRIOR TO SHOP DRAWINGS APPROVAL. NO EXTRA CHARGE WILL BE GRANTED FOR ADJUSTMENT TO BREAKER RATINGS OR FEEDER SIZES.
 - LIFE SAFETY SYSTEM**
 - PROVIDE VERIFICATION AND TESTING OF THE F.A SYSTEM COMPONENTS. AND PROVIDE VERIFICATION CERTIFICATE TO OWNER.
 - PROVIDE A COMPLETE AND OPERATIONAL SYSTEM TO SUIT.
 - PROVIDE COMPLETE SHOP DRAWINGS AND RISER DIAGRAM ILLUSTRATING THE SYSTEM INSTALLATION.



NOTES:

- ◇ OUTDOOR HYDRO PAD MOUNTED TRANSFORMER
- ◇ POLE LIGHTING STANDARD, TYPICAL
- ◇ RECESSED LED DOWNLIGHT, TYPICAL
- ◇ ROOF MOUNTED EMERGENCY OUTDOOR GENERATOR UNIT.
- ◇ COORDINATE AND TERMINATE DUCTS AS PER UTILITY REQUIREMENT.
- ◇ TERMINATE INCOMING U/G DUCTS TO SWITCHBOARD'S MAIN WIREWAY CELL FOR PROPER CONNECTION TO SUIT.
- ◇ TERMINATE INCOMING U/G DUCTS TO BELL'S PLYWOOD BACKBOARD LOCATION TO SUIT.
- ◇ EV CHARGER (C/W DATA LINE, 1°C UP TO BELL BACKBOARD LOCATION). EXACT LOCATION TO BE COORDINATED ON SITE. CHARGEPOINT, INC. CAT. #CT4000 LEVEL 2 SERIES, CHA CT4021-GW1, DUAL PORT, PEDESTAL MOUNT. PROVIDE ALL REQUIRED CONCRETE FOOTING & C/W ALL MOUNTING ACCESSORIES, ETC. REFER TO PANELBOARD FOR CIRCUITING TO SUIT. PROVIDE 2x(2 #6 + gnd - 1°C)

CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS. REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS.

A - Drawing/detail number
 B - Sheet number where called
 C - Sheet number where drawn

No.	Date	Description	By
1	2024/04/12	ISSUED FOR PERMIT	BV
2	2024/07/30	ISSUED FOR TENDER	BV

PRIOR TO PROJECT CONSTRUCTION COMPLETION!!!

GENERAL CONTRACTOR - MANDATORY DELIVERABLES (WHERE APPLICABLE)

ALL ITEMS LISTED BELOW ARE TO BE DELIVERED TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION FOR THIS BUILDING PERMIT

- ALL OPERATION AND MAINTENANCE MANUALS
- ALL PRODUCT DATA THAT PERTAINS TO ALL FIRESTOPPING MATERIALS USED
- VERIFICATION LETTER BY A CERTIFIED AND LICENSED SPRINKLER AND LIFE SAFETY SYSTEMS CONTRACTOR - LETTER TO VERIFY INSTALLATION AND/OR MODIFICATIONS AND TESTING PERFORMED AND COMPLETED IN ACCORDANCE WITH NFPA 13
- ALL ESA REPORTS, FINAL SIGN OFF AND PERMITS
- VERIFICATION LETTER BY A CERTIFIED AND LICENSED EMERGENCY LIGHTING AND LIFE SAFETY SYSTEMS CONTRACTOR
- CERTIFICATES OF FIRE ALARM VERIFICATION
- HYDRO INSPECTION CERTIFICATES
- EMERGENCY LIGHTING TEST REPORT
- TESTING, AIR BALANCING, ADJUSTING REPORTS FOR ALL HVAC SYSTEMS
- ALL STRUCTURAL STEEL SHOP DRAWINGS AND ENGINEERING REVIEWS
- ALL SITE VISIT REPORTS PROVIDED BY PROFESSIONAL DISCIPLINES
- OCCUPANCY AND COMPLIANCE LETTERS FROM ALL PROFESSIONAL DISCIPLINES

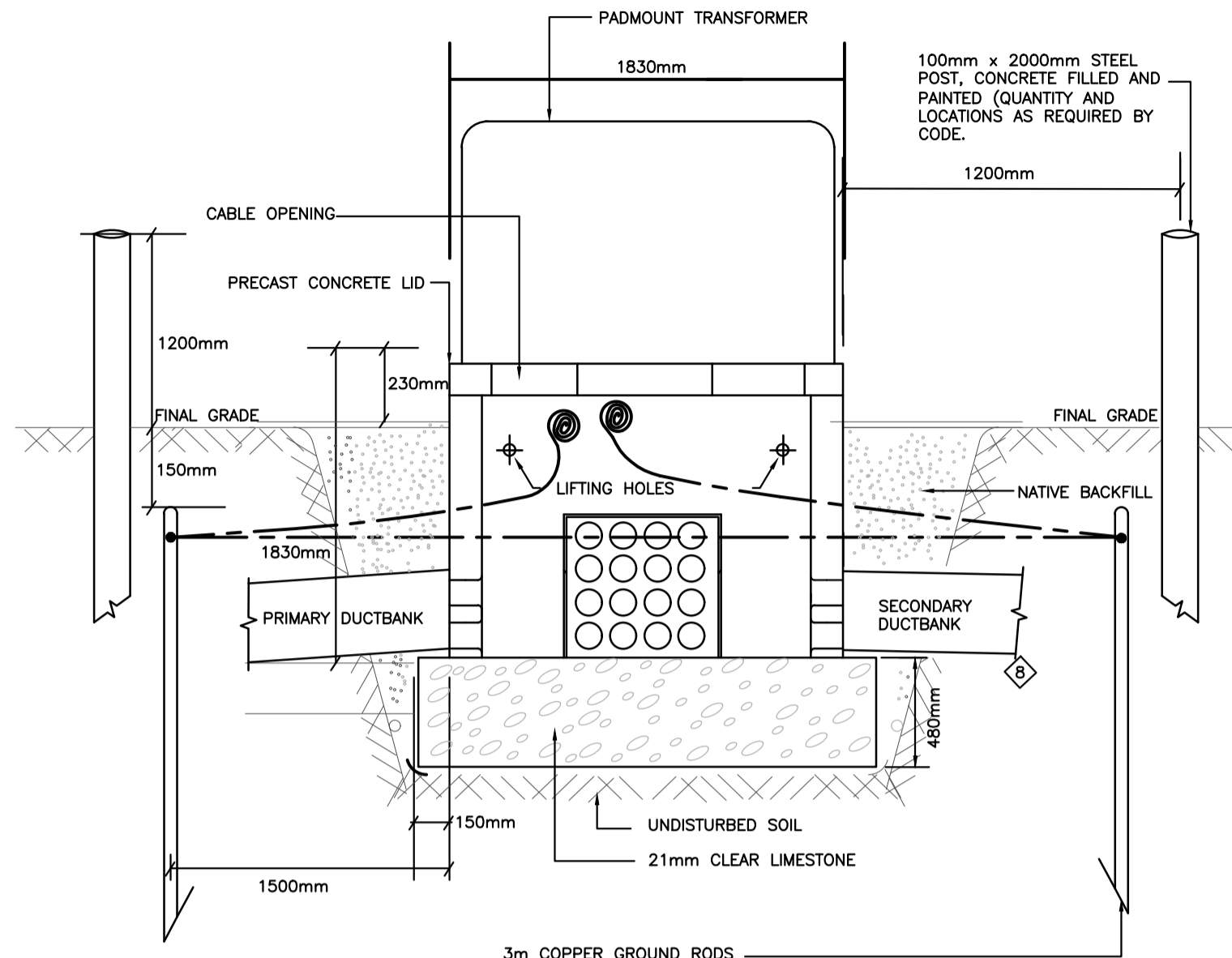
Consulting Engineers Lighting - Electrical
 595 CITYVIEW BLVD, SUITE 204/205
 VAUGHAN, ONTARIO, CANADA L4H 3M7
 Tel: (905) 417-8881 Fax: (905) 417-8882
 www.e-lumen.ca



Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
 20 SOUTH STREET,
 TRENTON, ON
 City of Quinte West

Sheet Title
ELECTRICAL SITE PLAN

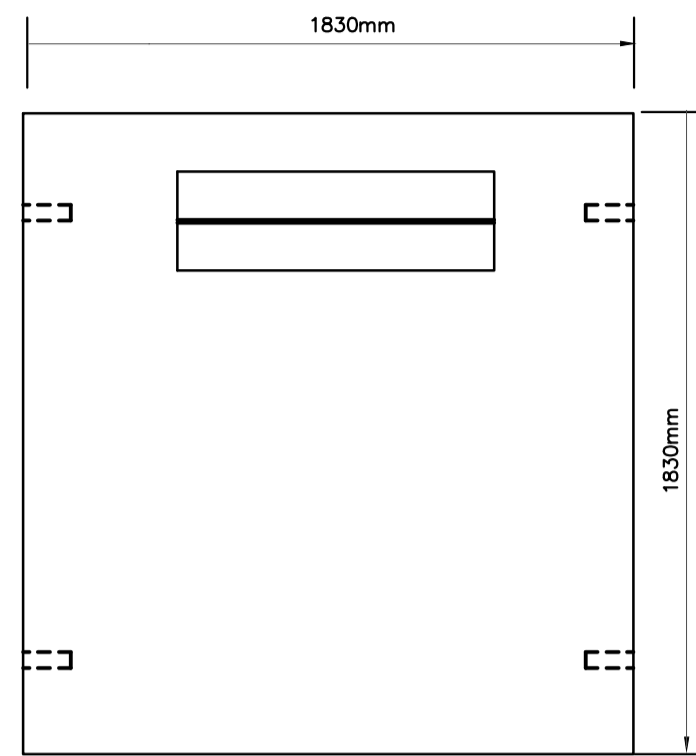
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Date June 2023	Scale 1:300
Project Number 23-019	Sheet Number E-100



NOTES:

- FOUNDATION MUST BE PRECAST, REINFORCED POURED CONCRETE.
- PRECAST LID REQUIRED ON ALL FOUNDATIONS - LIDS MUST HAVE 4 LIFTING HOLES.
- INSTALL 1/16" POLY (BLACK) OVER ALL 4 - CABLE OPENINGS.
- CONCRETE TO BE 32MPa (4500PSI) AIR ENTRAINED, LOW SLUMP.
- REINFORCED WITH No. 6 (21mm) HI-BOND REINFORCING STEEL BARS AT 12".
- MANUFACTURE AND SUPPLIER OF FOUNDATION FOR THREE PHASE TRANSFORMER PAD APPROVED BY HYDRO ONE (TRENTON): ARMED BROOKLIN CONCRETE.
- SUBMIT TRANSFORMER FOUNDATION AND LID SHOP DRAWINGS TO CONSULTANT FOR REVIEW PRIOR TO INSTALLATION.

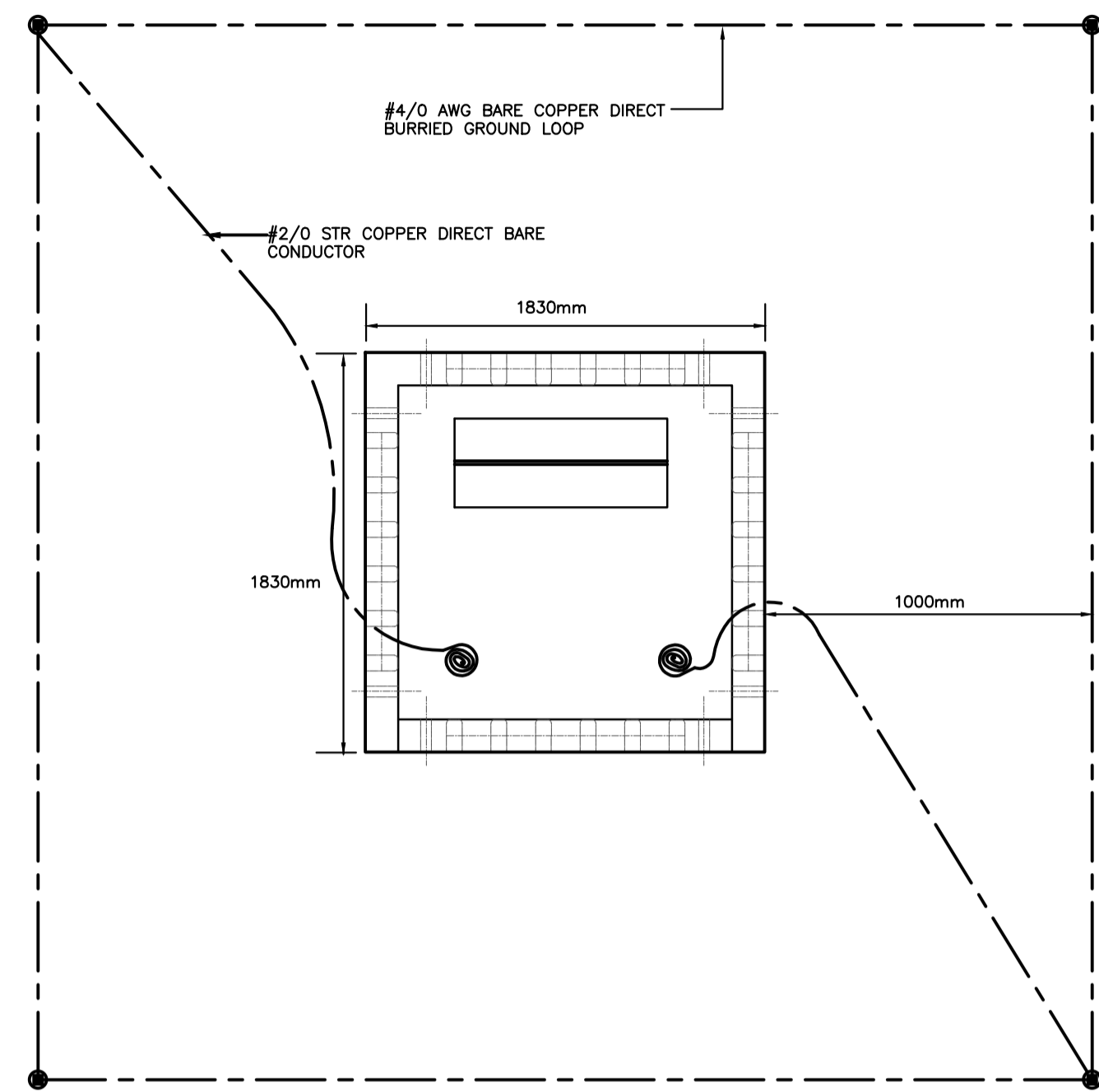
- PROVIDE SOAK AWAY PIT AS PER HYDRO ONE STANDARD. DRILL 4 DRAINAGE HOLES IN BOTTOM OF EACH DUCT. 13mm(1.3cm) DIA AT 50mm(5cm) CENTRES. FILL TO TOP OF DUCTS WITH 19mm(1.9cm) CLEAR STONE. TOP OFF WITH A LAYER OF POLY-FILM, OR STYROFOAM, ETC., AND A FINAL LAYER OF CONCRETE. SOAK AWAY PIT TO BE 1000mm DEEP(100cm) x 305mm (30.5cm) WIDE AND 19mm (1.9cm) CLEAR STONE.



TOP VIEW

NOTES:

- FOUNDATION MUST BE PRECAST, REINFORCED POURED CONCRETE. CONCRETE TO BE 32MPa (4500PSI) MINIMUM STRENGTH, 6-8% AIR ENTRAINMENT. MANUFACTURERS ARE RESPONSIBLE FOR DESIGN & P. ENG CERTIFICATION OF THE LIFTING SYSTEM FOR FOUNDATION AND LID. MANUFACTURERS MUST PROVIDE THIS CERTIFICATION TO HYDRO ONE (BELLEVILLE/TRENTON). REFER TO MATERIAL SPECIFICATION SHEET STOCK CODE FOR HYDRO APPROVED MANUFACTURERS AND CATALOG NUMBERS. PRECAST FOUNDATION MUST MEET HYDRO ONE TRANSFORMER VAULT STANDARD SPECIFICATION & REQUIREMENT. VAULT SIZE TO BE 129'x85'x90'H. SUBMIT SHOP DRAWINGS TO CONSULTANT PRIOR TO ORDERING.



NOTES:

- COIL 3600mm TO 4600mm OF GROUND CONDUCTOR INSIDE PRECAST FOUNDATION.

1 PAD MOUNTED TRANSFORMER DETAIL

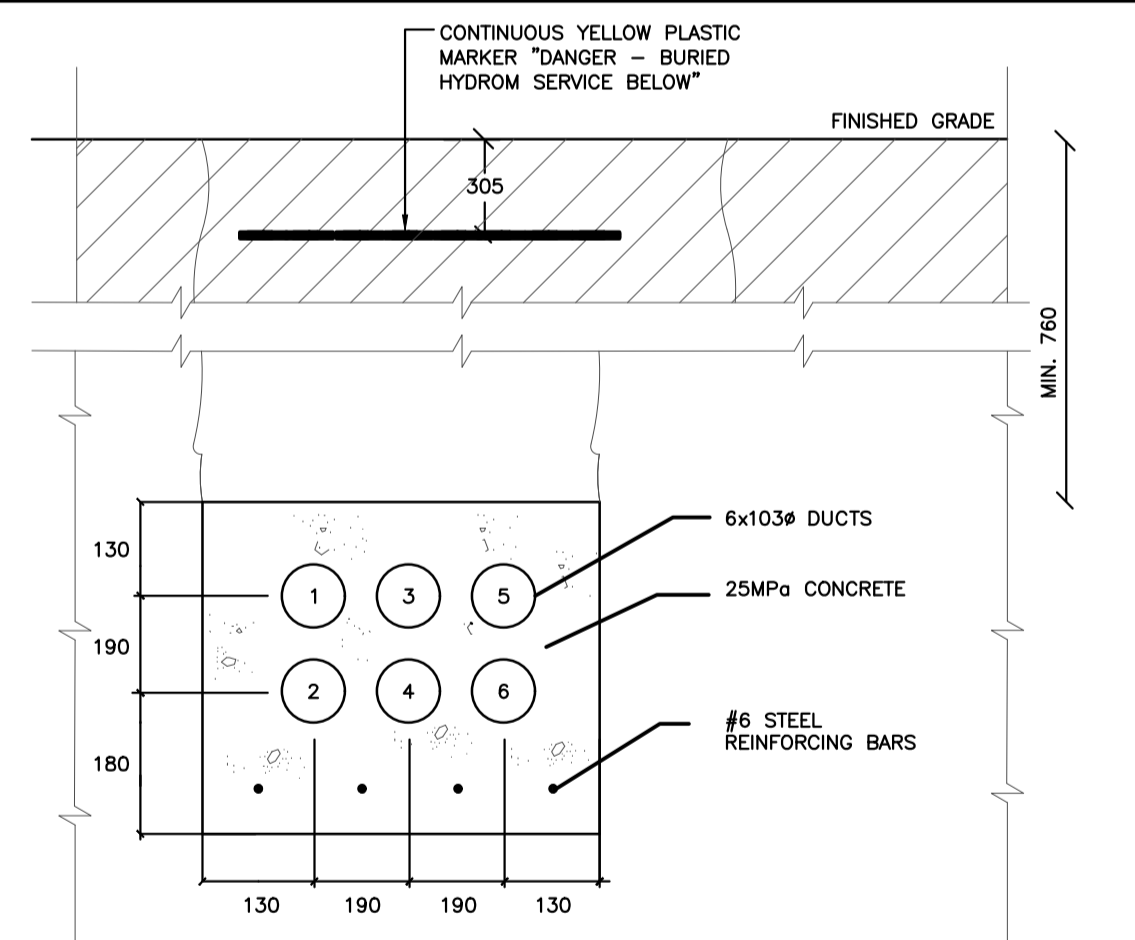
SCALE: N.T.S.

2 TRANSFORMER FOUNDATION LID DETAIL

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3 TRANSFORMER GROUNDING DETAIL

SCALE: N.T.S.

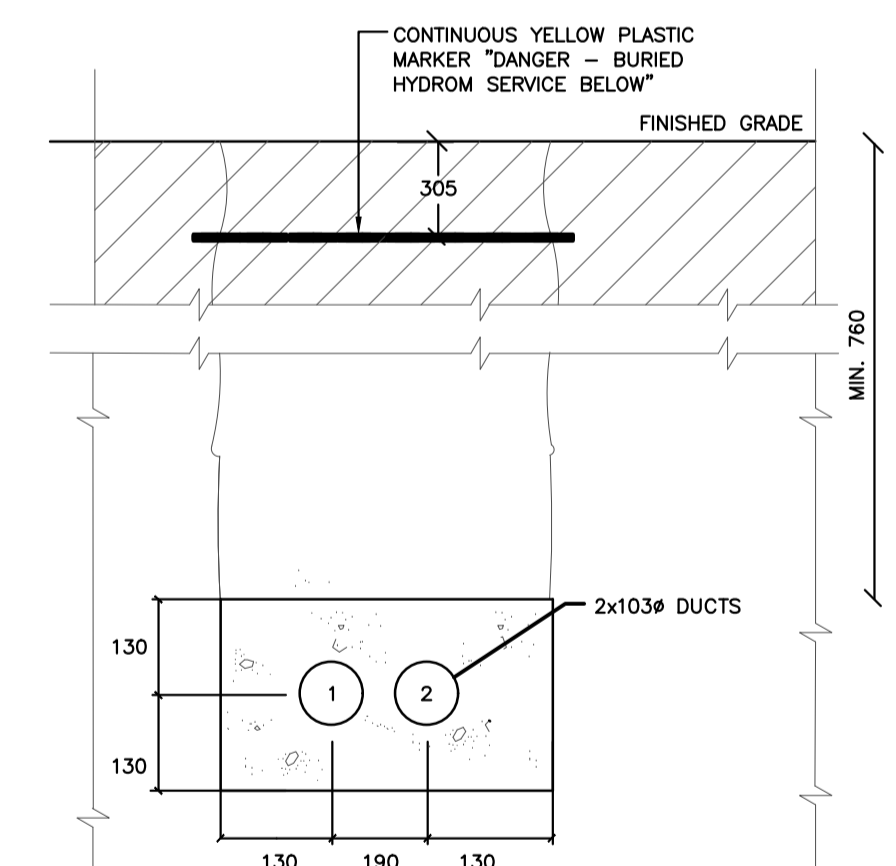


NOTES:

- DUCTBANK TO HAVE A MIN. OF 100MM OF COVER AND TO BE GRADED TOWARDS MANHOLE OR POLE.
- DUCT TO BE 103mm RIGID PVC TYPE 1.
- CONCRETE TO HAVE A MINIMUM OF 25 MPa STRENGTH IN 28 DAYS.
- SPACERS TO BE PLACED UNDER EACH DUCT LAYER ON MAXIMUM CENTRE-TO-CENTRE DISTANCE OF 2m.
- WIRE BANDING SHALL BE BIND DUCT, SPACERS & REINFORCING BAR (IF REQ'D) EVERY 3m.
- DUCT JOINTS TO BE STAGGERED A MIN. OF 150mm AND LOCKED WITH APPROVED COUPLING.
- BELL ENDS ARE TO BE USED FOR EACH DUCT TERMINATION IN A MANHOLE, PULLING PIT OR SLAB ON GRADE.
- REINFORCING BARS ARE REQUIRED AT UNDER-PAVEMENT CROSSINGS & CROSSINGS OF OTHER UTILITIES. BARS ARE TO BE 12.7mm DIA. HI-BOND & SPLICES IN BAR SHALL HAVE MIN. OVERLAP OF 300mm.
- WHERE POURING OF CONCRETE IS INTERRUPTED FOR MORE THAN 1 HOUR, REINFORCING BARS NOT LESS THAN 1.5m IN LENGTH SHALL BE PLACED TO MAINTAIN CONTINUITY.
- EACH DUCT TO BE CLEARED & FINISHED WITH A PULLING CORD AND THEN SEALED WITH A PVC PLUG OR CAP.
- PROVIDE SOAK AWAY PIT OF CRUSHED STONES 900MM DEEP, 300MM LONG, AND FULL WIDTH OF DUCTBANK. LOCATION AS CHOSEN BY UTILITY. DUCTS TO BE SLOPED DOWN PRIOR TO ENTERING THE PERIMETER BLOCKED WALL. PROVIDE NECESSARY HOLES AS REQUIRED TO SUIT.

4 PRIMARY DUCTBANK

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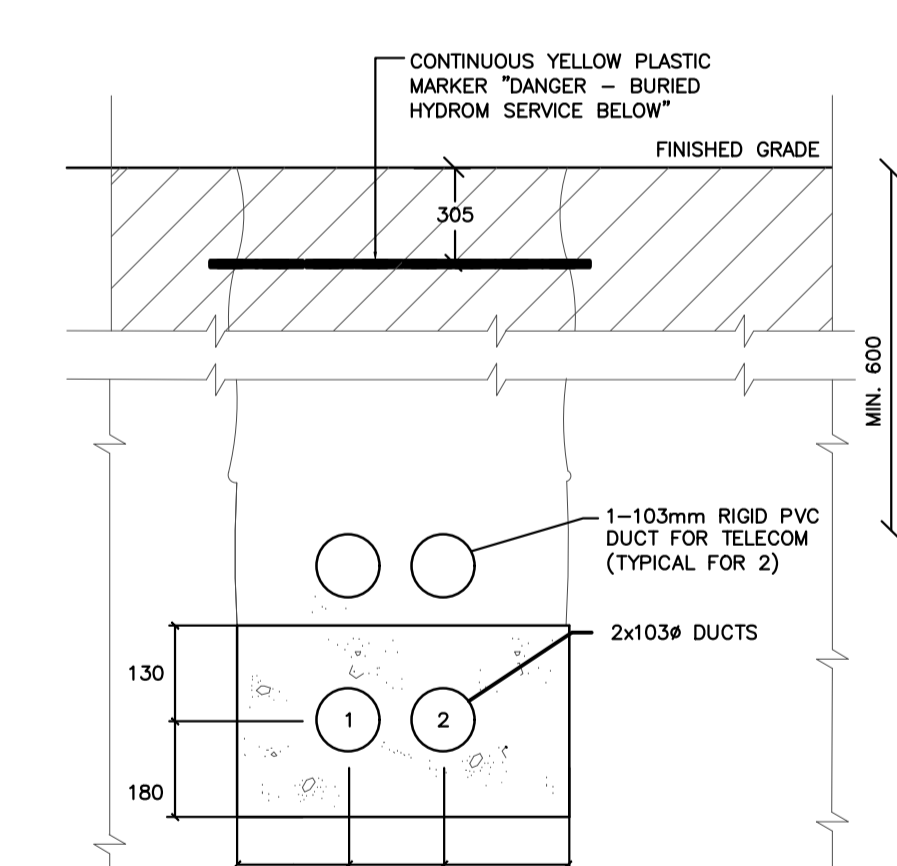


NOTES:

- DUCTBANK TO HAVE A MIN. OF 100MM OF COVER AND TO BE GRADED TOWARDS MANHOLE OR POLE.
- DUCT TO BE 103mm RIGID PVC TYPE 1.
- SPACERS TO BE PLACED UNDER EACH DUCT LAYER ON MAXIMUM CENTRE-TO-CENTRE DISTANCE OF 2m.
- WIRE BANDING SHALL BE BIND DUCT, SPACERS & REINFORCING BAR (IF REQ'D) EVERY 3m.
- DUCT JOINTS TO BE STAGGERED A MIN. OF 150mm AND LOCKED WITH APPROVED COUPLING.
- BELL ENDS ARE TO BE USED FOR EACH DUCT TERMINATION IN A MANHOLE, PULLING PIT OR SLAB ON GRADE.
- EACH DUCT TO BE CLEARED & FINISHED WITH A PULLING CORD AND THEN SEALED WITH A PVC PLUG OR CAP.
- PROVIDE SOAK AWAY PIT OF CRUSHED STONES 900MM DEEP, 300MM LONG, AND FULL WIDTH OF DUCTBANK. LOCATION AS CHOSEN BY UTILITY. DUCTS TO BE SLOPED DOWN PRIOR TO ENTERING THE PERIMETER BLOCKED WALL. PROVIDE NECESSARY HOLES AS REQUIRED TO SUIT.

5 SECONDARY DUCTBANK

SCALE: N.T.S.

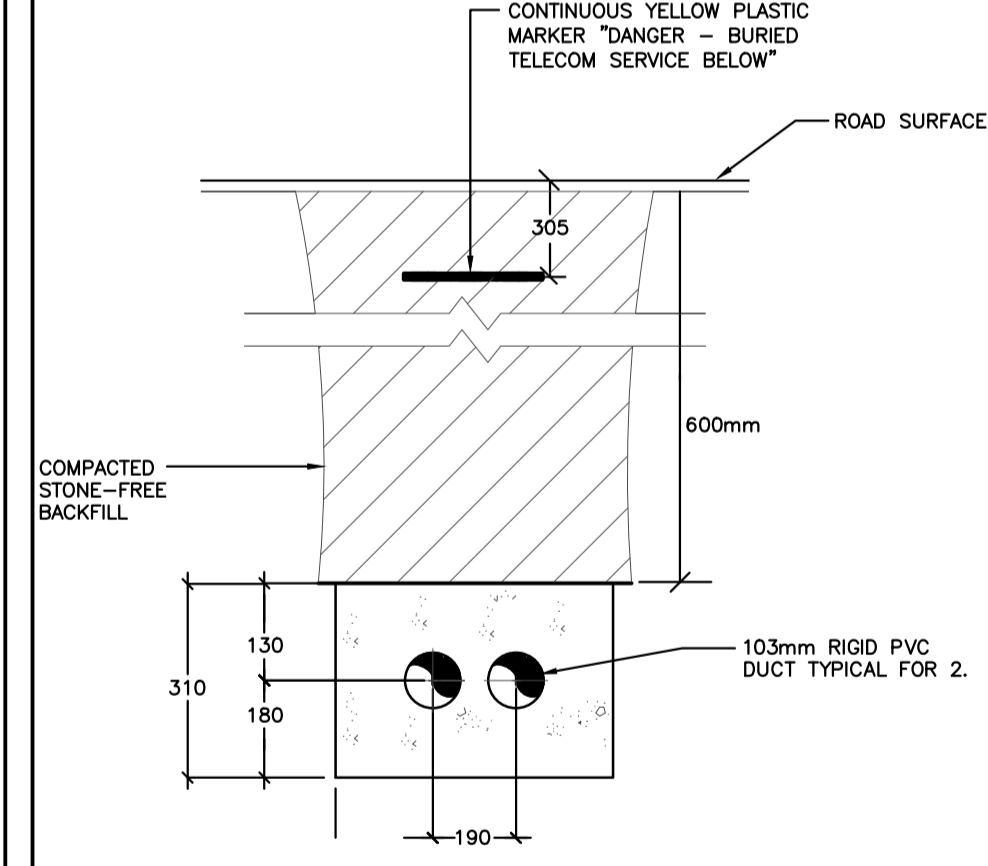


NOTES:

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- DUCT TO BE 103mm RIGID PVC TYPE 1.
- SPACERS TO BE PLACED UNDER EACH DUCT LAYER ON MAXIMUM CENTRE-TO-CENTRE DISTANCE OF 2m.
- WIRE BANDING SHALL BE BIND DUCT, SPACERS & REINFORCING BAR (IF REQ'D) EVERY 3m.
- DUCT JOINTS TO BE STAGGERED A MIN. OF 150mm AND LOCKED WITH APPROVED COUPLING.
- BELL ENDS ARE TO BE USED FOR EACH DUCT TERMINATION IN A MANHOLE, PULLING PIT OR SLAB ON GRADE.
- EACH DUCT TO BE CLEARED & FINISHED WITH A PULLING CORD AND THEN SEALED WITH A PVC PLUG OR CAP.
- PROVIDE SOAK AWAY PIT OF CRUSHED STONES 900MM DEEP, 300MM LONG, AND FULL WIDTH OF DUCTBANK. LOCATION AS CHOSEN BY UTILITY. DUCTS TO BE SLOPED DOWN PRIOR TO ENTERING THE PERIMETER BLOCKED WALL. PROVIDE NECESSARY HOLES AS REQUIRED TO SUIT.

6 SECONDARY DUCTBANK

SCALE: N.T.S.



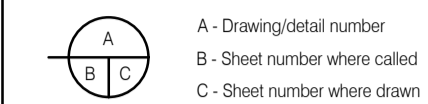
NOTES:

- DUCTBANK TO HAVE A MIN. OF 100MM OF COVER AND TO BE GRADED TOWARDS MANHOLE OR POLE.
- DUCT TO BE 103mm RIGID PVC TYPE 1.
- SPACERS TO BE PLACED UNDER EACH DUCT LAYER ON MAXIMUM CENTRE-TO-CENTRE DISTANCE OF 2m.
- WIRE BANDING SHALL BE BIND DUCT, SPACERS & REINFORCING BAR (IF REQ'D) EVERY 3m.
- DUCT JOINTS TO BE STAGGERED A MIN. OF 150mm AND LOCKED WITH APPROVED COUPLING.
- BELL ENDS ARE TO BE USED FOR EACH DUCT TERMINATION IN A MANHOLE, PULLING PIT OR SLAB ON GRADE.
- EACH DUCT TO BE CLEARED & FINISHED WITH A PULLING CORD AND THEN SEALED WITH A PVC PLUG OR CAP.
- PROVIDE SOAK AWAY PIT OF CRUSHED STONES 900MM DEEP, 300MM LONG, AND FULL WIDTH OF DUCTBANK. LOCATION AS CHOSEN BY UTILITY.

7 COMMUNICATION DUCTBANK

SCALE: N.T.S.

CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS. REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS.



ISSUES/REVISIONS

No.	Date	Description	By
1	2024/04/12	ISSUED FOR PERMIT	BV
2	2024/07/30	ISSUED FOR TENDER	BV

PRIOR TO PROJECT CONSTRUCTION COMPLETION!!!

GENERAL CONTRACTOR - MANDATORY DELIVERABLES (WHERE APPLICABLE)

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CONSULTING ENGINEERS LIGHTING - ELECTRICAL
 595 CITYVIEW BLVD, SUITE 204/205
 VAUGHAN, ONTARIO, CANADA L4H 3M7
 Tel: (905) 417-8881 Fax: (905) 417-8882
 www.e-lumen.ca

ENGINEERING TECHNOLOGIST
 GABRIEL G. NOBILIO
 No. 57668

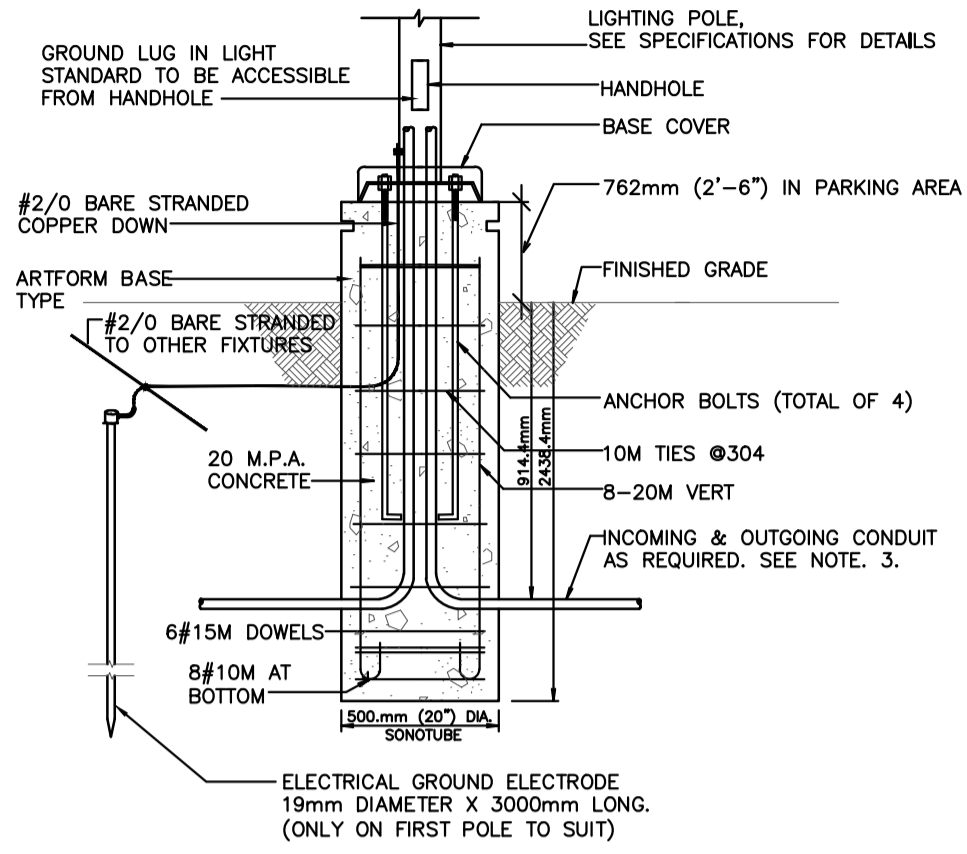
LICENSED PROFESSIONAL ENGINEER
 F. SANTIA
 PROVINCE OF ONTARIO

Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
 20 SOUTH STREET,
 TRENTON, ON
 City of Quinte West

Sheet Title
ELECTRICAL SITE PLAN DETAILS

Drawn DD/MU	Checked BV
Date June 2023	Scale N.T.S.

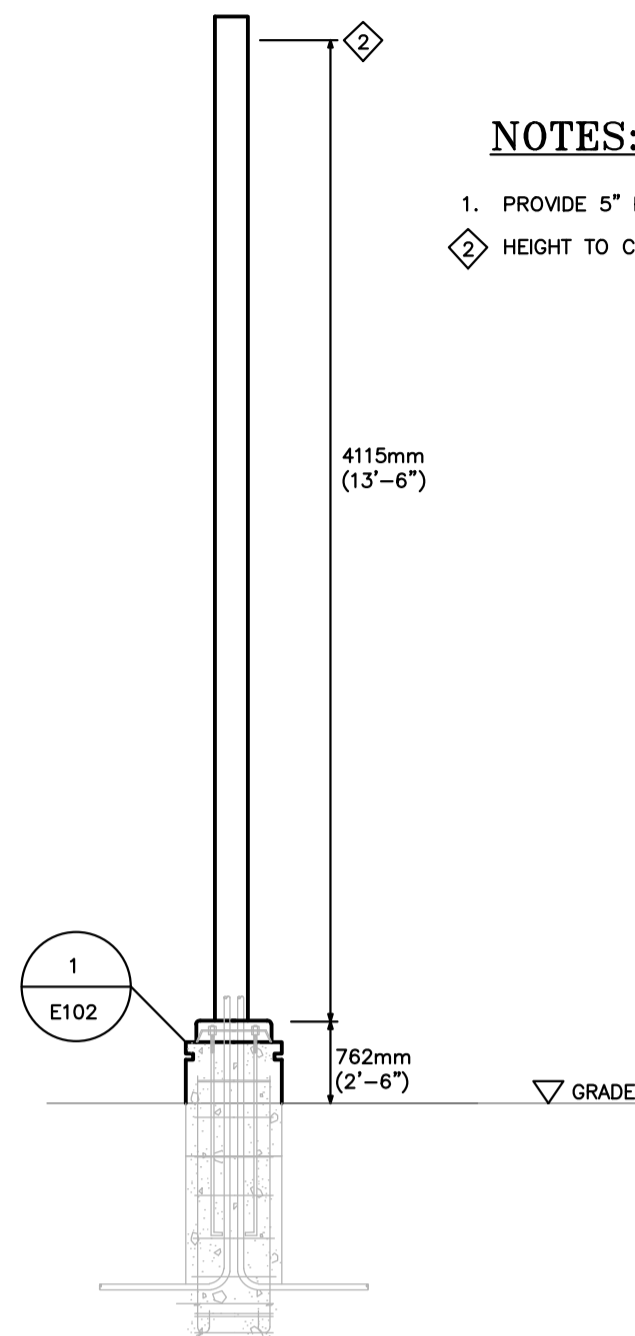
Project Number 23-019	Sheet Number E-101
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NOTES:

1. PROVIDE ALL WORK ASSOCIATED WITH THIS DETAIL. FINISH TO SUIT ARCHITECT'S REQUIREMENTS. EXACT LOCATION OF POLE MOUNTED LUMINAIRES TO BE COORDINATED WITH ARCHITECTURAL SITE PLAN.
2. REFER TO STRUCTURAL CONSULTANT FOR DETAILS OF BASE. THE BASE SHALL BE PROVIDED BY DIVISION 16 IN ACCORDANCE WITH SHOP DRAWINGS, DETAILS AND COORDINATION WITH GENERAL CONTRACTOR AND DIVISION 3.
3. ELECTRICAL CONTRACTOR TO PROVIDE MINIMUM SIZE OF WIRING 2#10+GND IN 1".

1 LIGHTING POLE BASE DETAIL
SCALE: N.T.S.



NOTES:

1. PROVIDE 5" POLE TO SUIT.
- ◇ HEIGHT TO CENTER OF LUMINAIRE OPTICS.

2 POLE DETAIL
SCALE: N.T.S.



3 POLE MOUNTED LUMINAIRE 'LA1'
SCALE: N.T.S.



4 LUMINAIRE TYPE 'LC1'
SCALE: N.T.S.

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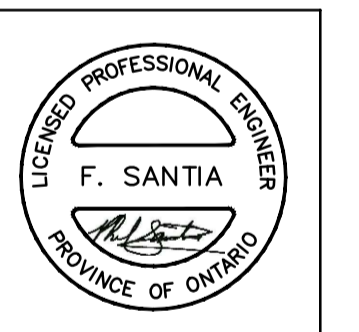
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Consulting Engineers Lighting - Electrical
595 CITYVIEW BLVD, SUITE 204/205
VAUGHAN, ONTARIO, CANADA L4H 3M7
Tel: (905) 417-6881 Fax: (905) 417-6882
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Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
20 SOUTH STREET, TRENTON, ON
City of Quinte West

Sheet Title
ELECTRICAL SITE PLAN LIGHTING DETAILS

Drawn DD/MU	Checked BV
Date June 2023	Scale N.T.S.

Project Number 23-019	Sheet Number E-102
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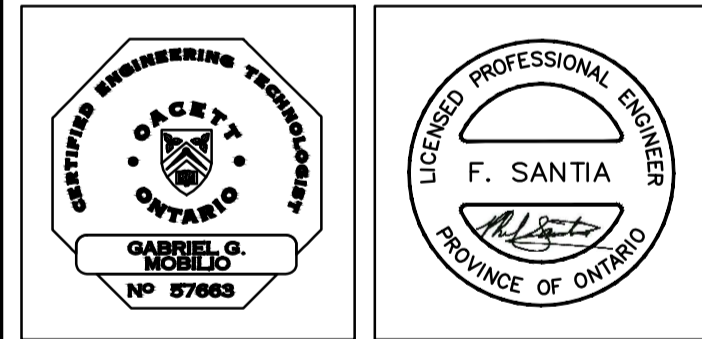
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**CONSULTING ENGINEERS
LIGHTING - ELECTRICAL**

595 CITYVIEW BLVD, SUITE 204/205
VAUGHAN, ONTARIO, CANADA L4H 3M7
Tel: (905) 417-8881 Fax: (905) 417-8882
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Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
20 SOUTH STREET,
TRENTON, ON
City of Quinte West

Sheet Title
ELECTRICAL GROUND FLOOR LIGHTING PLAN

Drawn DD/MU	Checked BV
Date June 2023	Scale 1:100
Project Number 23-019	Sheet Number E-200



COMMUNICATION / SECURITY NOTES:

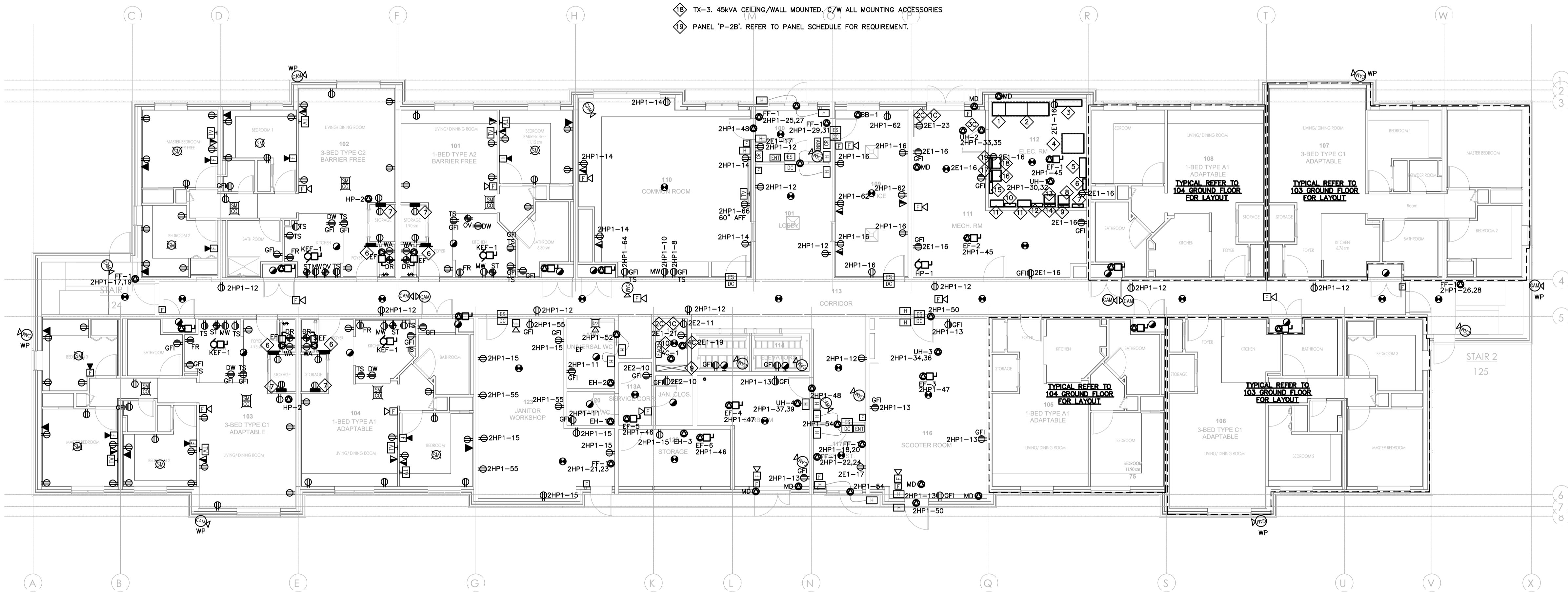
- 1. 4"x8"x3/4" TELEPHONE BACKBOARD. PROVIDE #6 AWG WIRE BACK TO BASE BUILDING GROUNDING SYSTEM AT MAIN ELECTRICAL ROOM.
- 2. DIV. 16 TO TERMINATE INCOMING COMMUNICATION DUCTS AT THIS LOCATION ACCORDINGLY.
- 3. FIRE ALARM CONTROL PANEL. EXACT LOCATION TO BE COORDINATED ON SITE.
- 4. MAIN SECURITY CONTROL PANEL.

ELECTRICAL ROOM NOTES:

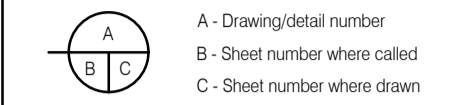
- 1. DIV. 16 TO TERMINATE INCOMING POWER DUCTS AT THIS CELL AND CONNECT ALL CABLING ACCORDINGLY.
- 2. MAIN ELECTRICAL SWITCHBOARD (MS-6AB), 600A, 347/600V, 3PHASE, 4W, 35KVA AND C/W 4" HOUSEKEEPING PAD
- 3. HYDRO METERING CABINET
- 4. TX-1. 250KVA C/W HOUSEKEEPING PAD
- 5. DISTRIBUTION PANEL 'DP-2SD' C/W HOUSEKEEPING PAD
- 6. PANEL 'P-2D1'
- 7. PANEL 'P-6HP1'
- 8. TX-2. 75KVA CEILING/WALL MOUNTED. C/W ALL MOUNTING ACCESSORIES
- 9. PANEL 'P-2HP1'
- 10. PANEL 'P-6EB'
- 11. AT5-1/ATS-2
- 12. PANEL 'P-6E1'
- 13. TX-E1. 30KVA CEILING/WALL MOUNTED. C/W ALL MOUNTING ACCESSORIES
- 14. PANEL 'P-2E1'
- 15. PANEL 'P-6E2'
- 16. TX-E2. 30KVA CEILING/WALL MOUNTED. C/W ALL MOUNTING ACCESSORIES
- 17. PANEL 'P-2E2'
- 18. TX-3. 45KVA CEILING/WALL MOUNTED. C/W ALL MOUNTING ACCESSORIES
- 19. PANEL 'P-2B'. REFER TO PANEL SCHEDULE FOR REQUIREMENT.

GENERAL NOTES:

- 1. ALL RECEPTACLES SHALL BE TAMPER PROOF TYPE.
- 2. PROVIDE ARC TYPE CCT. BREAKERS TO ALL BREAKERS IN PANEL.
- 3. DIV. 16 TO PROVIDE PROPER RECEPTACLE OUTLET CONFIGURATION OR TYPE TO SUIT EQUIPMENT/DEVICE REQUIREMENT AND C/W REQUIRED NUMBER OF WIRES. COORDINATE WITH APPLIANCE SUPPLIER OR SITE SUPERINTENDENT PRIOR TO ROUGHING-IN OF FEEDER AND PROVIDE TO SUIT.
- 4. INTER LOCK EXHAUST FAN TO D/W ON/OFF PUSHBUTTON SUCH THAT EXHAUST FAN TO TURN-ON ONCE THE D/W IS IN OPERATION. PROVIDE REQUIRED RELAY & CONTACTOR TO SUIT. REFER TO PANEL BOARD FOR CIRCUITING.
- 5. DIV. 16 TO INTERCONNECT ALL COMBINATION SMOKE ALARM/CARBON MONOXIDE/STROBE LDEVICES SUCH THAT IN FIRE ALARM CONDITION, ALL DEVICES TO OPERATE PROPERLY (ALARM AND STROBE). PROVIDE APPROPRIATE RELAY CONTACT & WIRING CONTROL TO SUIT.
- 6. SUITE'S ELECTRICAL PANEL BOARD. EXCAT LOCATION TO BE COORDINATED ON SITE.
- 7. SUITE'S COMMUNICATION CONTROL PANEL C/W RECEPTACLE OUTLET.
- 8. DIV. 16 TO COORDINATE ON SITE FOR ALL EXACT LOCATION OF ELECTRICAL AND COMMUNICATION PANELS PRIOR TO ROUGHING IN. ROUTING OF INCOMING ELECTRICAL AND CONDUITS SHALL BE COORDINATED ON SITE TO SUIT SITE CONDITION AND TO MEET CODE REQUIREMENT.
- 9. DUCTS RISER (NORMAL/EMERGENCY) TO RISE UP AT THIS LOCATION. COORDINATE ON SITE FOR ROUTING OF CONDUIT FOR POWER AND SYSTEMS.
- 10. PROVIDE 1" C FROM THIS LOCATION UP INTO THE LIGHT POLE BESIDE THE GAZEBO. COORDINATE ON SITE FOR EXACT TERMINATION POINT.



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CONSULTING ENGINEERS LIGHTING - ELECTRICAL
 595 CITYVIEW BLVD, SUITE 204/205
 VAUGHAN, ONTARIO, CANADA L4H 3M7
 Tel: (905) 417-6881 Fax: (905) 417-6882
 www.e-lumen.ca

Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
 20 SOUTH STREET,
 TRENTON, ON
 City of Quinte West

Sheet Title
ELECTRICAL GROUND FLOOR POWER AND SYSTEMS PLAN

Drawn DD/MU	Checked BV
Date June 2023	Scale 1:100
Project Number 23-019	Sheet Number E-201

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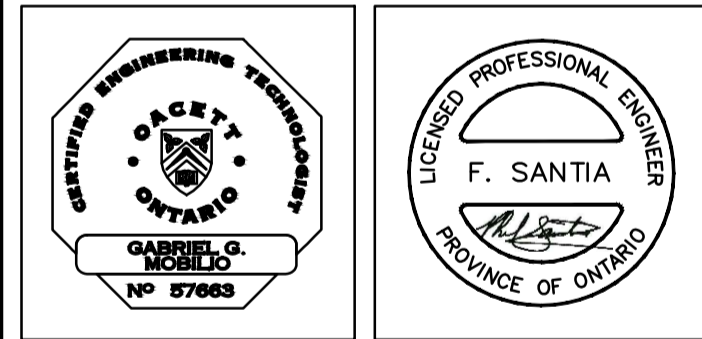
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CONSULTING ENGINEERS LIGHTING - ELECTRICAL

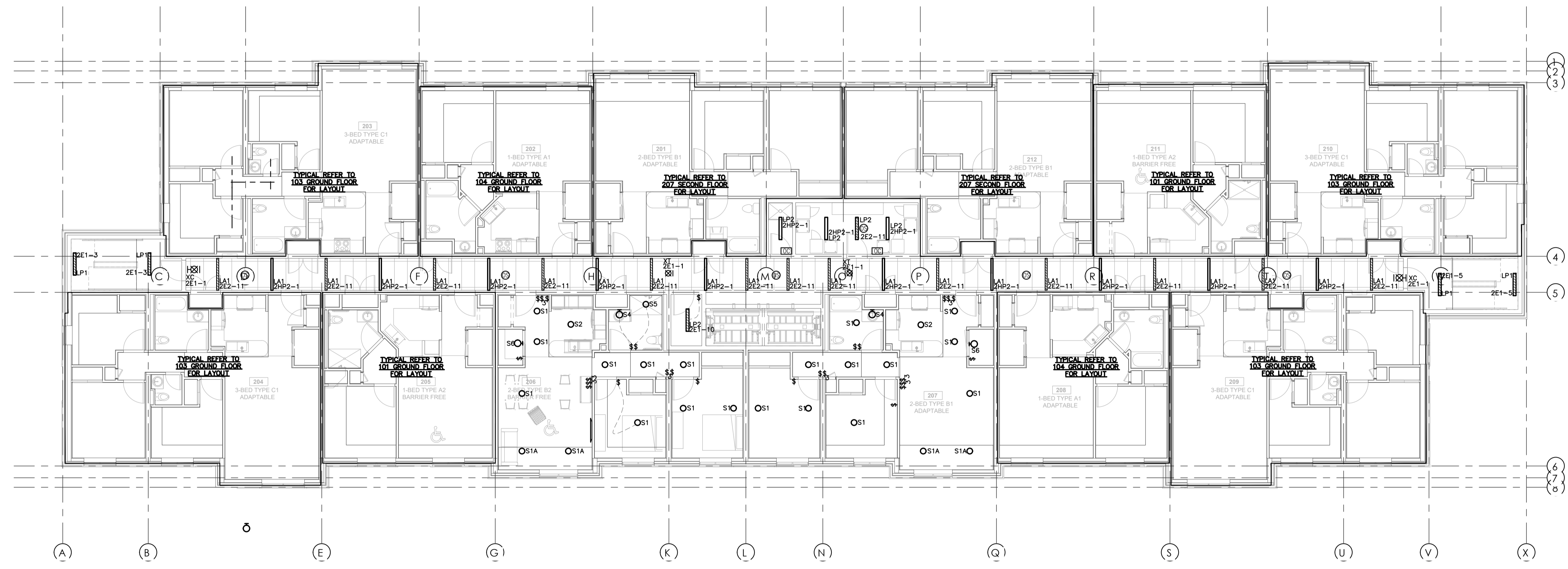
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Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
 20 SOUTH STREET,
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Sheet Title
ELECTRICAL SECOND FLOOR LIGHTING PLAN

Drawn DD/MU	Checked BV
Date June 2023	Scale 1:100
Project Number 23-019	Sheet Number E-300



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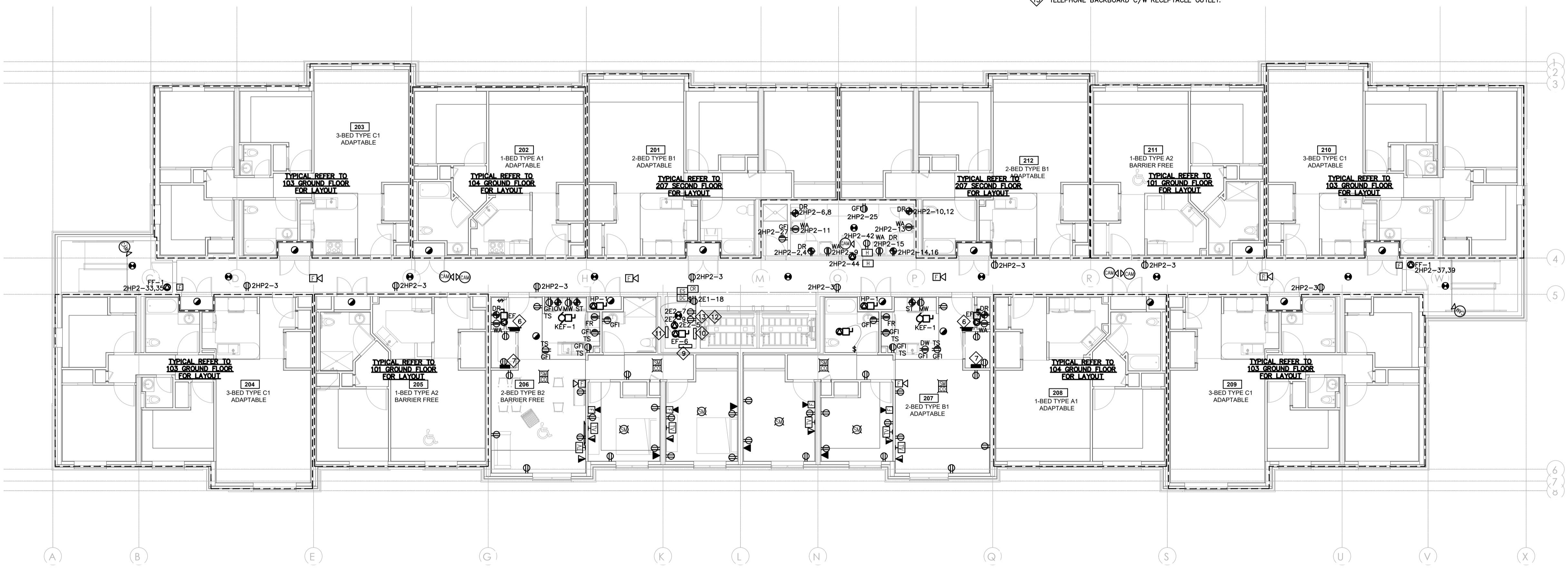
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- ④ SUITE'S ELECTRICAL PANEL BOARD, EXACT LOCATION TO BE COORDINATED ON SITE.
 - ④ SUITE'S COMMUNICATION CONTROL PANEL C/W RECEPTACLE OUTLET.
 - ⑨ PANEL 2D2.
 - ⑩ PANEL 2HP2.
 - ⑪ PANEL 2E2.
 - ⑫ DIV. 16 TO INSTALL EQUIPMENT AS PER CODE REQUIREMENT. COORDINATE ON SITE.
 - ⑬ TELEPHONE BACKBOARD C/W RECEPTACLE OUTLET.



CONSULTING ENGINEERS LIGHTING - ELECTRICAL
 595 CITYVIEW BLVD, SUITE 204/205
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 Tel: (905) 417-8881 Fax: (905) 417-8882
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Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
 20 SOUTH STREET, TRENTON, ON
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Sheet Title
ELECTRICAL SECOND FLOOR POWER AND SYSTEMS PLAN

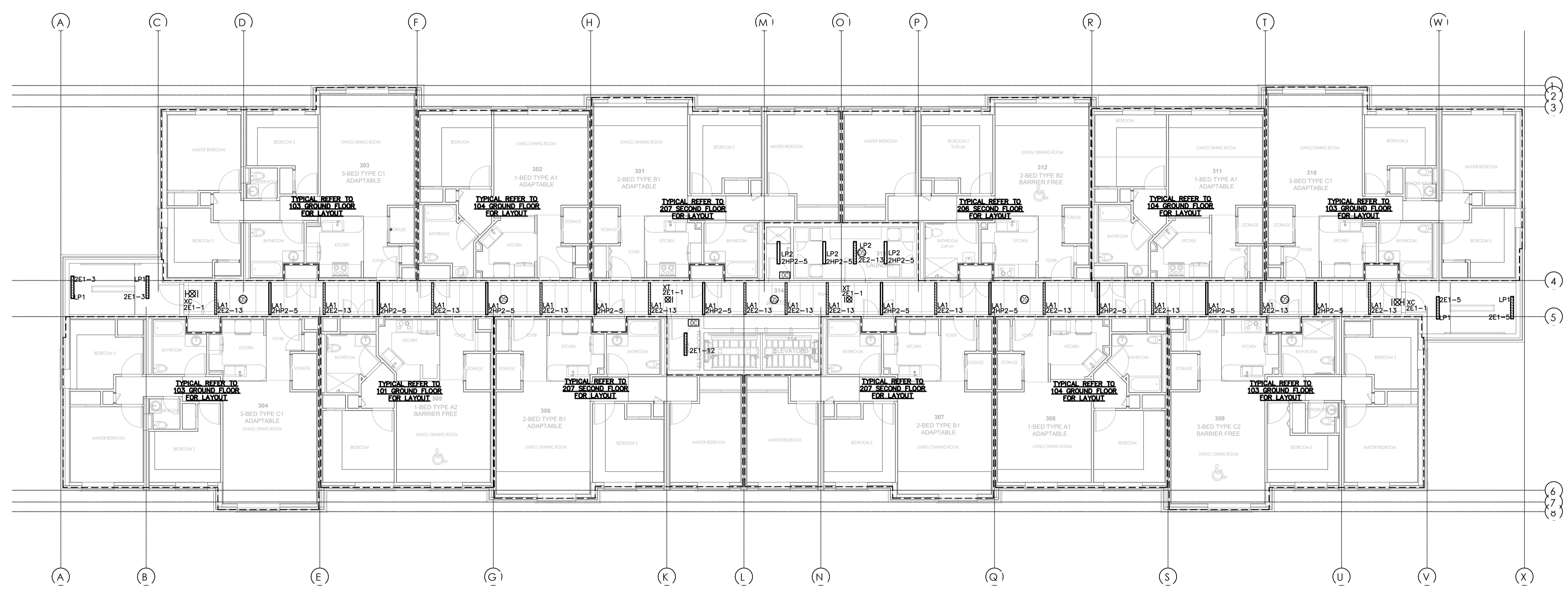
Drawn DD/MU	Checked BV
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Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
 20 SOUTH STREET,
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Sheet Title
ELECTRICAL THIRD FLOOR LIGHTING PLAN

Drawn DD/MU	Checked BV
Date June 2023	Scale 1:100
Project Number 23-019	Sheet Number E-400

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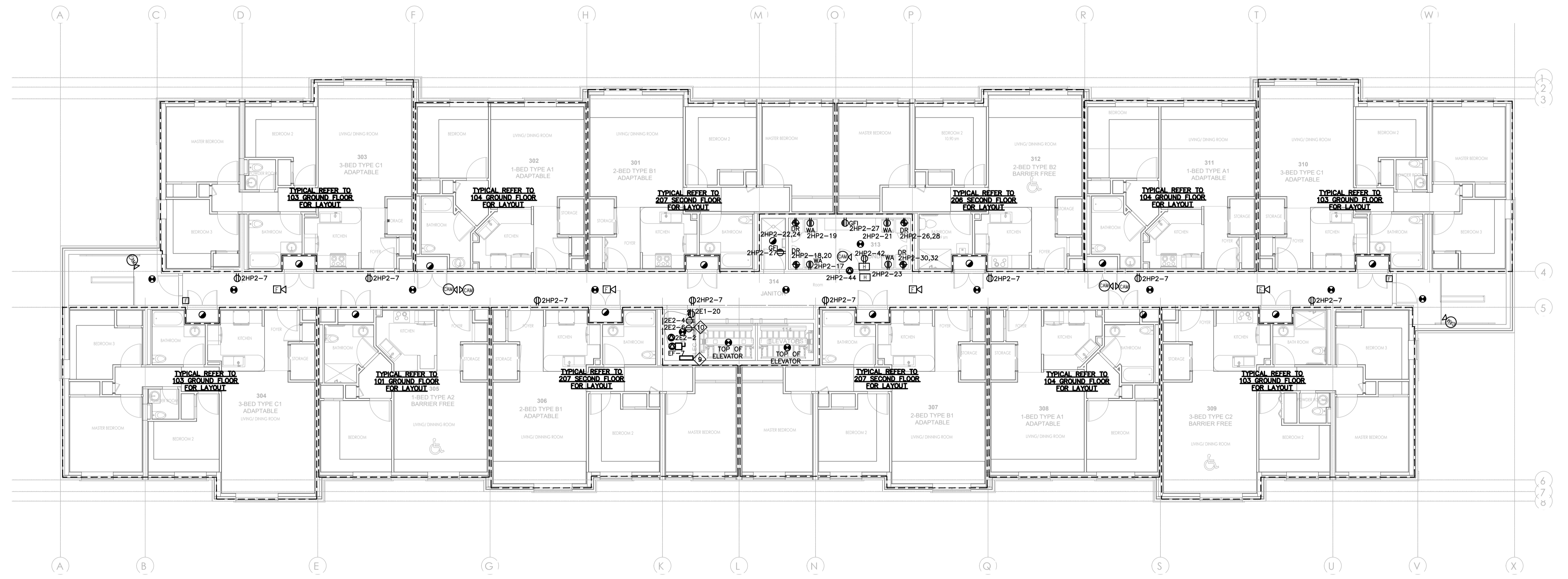
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- 2. PROVIDE ARC TYPE CCT. BREAKERS TO ALL BREAKERS IN PANEL.
- 3. DIV. 16 TO PROVIDE PROPER RECEPTACLE OUTLET CONFIGURATION OR TYPE TO SUIT EQUIPMENT/DEVICE REQUIREMENT AND C/W REQUIRED NUMBER OF WIRES. COORDINATE WITH APPLIANCE SUPPLIER OR SITE SUPERINTENDENT PRIOR TO ROUGHING-IN OF FEEDER AND PROVIDE TO SUIT.
- 4. INTER LOCK EXHAUST FAN TO D/W ON/OFF PUSHBUTTON SUCH THAT EXHAUST FAN TO TURN-ON ONCE THE D/W IS IN OPERATION. PROVIDE REQUIRED RELAY & CONTACTOR TO SUIT. REFER TO PANEL BOARD FOR CIRCUITING.
- 5. DIV. 16 TO INTERCONNECT ALL COMBINATION SMOKE ALARM/CARBON MONOXIDE/STROBE LDEVICES SUCH THAT IN FIRE ALARM CONDITION, ALL DEVICES TO OPERATE PROPERLY (ALARM AND STROBE). PROVIDE APPROPRIATE RELAY CONTACT & WIRING CONTROL TO SUIT.
- 6. SUITE'S ELECTRICAL PANEL BOARD. EXCAT LOCATION TO BE COORDINATED ON SITE.
- 7. SUITE'S COMMUNICATION CONTROL PANEL C/W RECEPTACLE OUTLET.
- 8. DIV. 16 TO COORDINATE ON SITE FOR ALL EXACT LOCATION OF ELECTRICAL AND COMMUNICATION PANELS PRIOR TO ROUGHING IN. ROUTING OF INCOMING ELECTRICAL AND CONDUITS SHALL BE COORDINATED ON SITE TO SUIT SITE CONDITON AND TO MEET CODE REQUIREMENT.
- 9. PANEL 2D3.
- 10. TELEPHONE BACKBOARD C/W RECEPTACLE OUTLET.

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CONSULTING ENGINEERS LIGHTING - ELECTRICAL
 595 CITYVIEW BLVD, SUITE 204/205
 VAUGHAN, ONTARIO, CANADA L4H 3M7
 Tel: (905) 417-8881 Fax: (905) 417-8882
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Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
 20 SOUTH STREET, TRENTON, ON
 City of Quinte West

Sheet Title
ELECTRICAL THIRD FLOOR POWER AND SYSTEMS PLAN

Drawn DD/MU	Checked BV
Date June 2023	Scale 1:100
Project Number 23-019	Sheet Number E-401

GENERAL NOTES:

- 1 APPROXIMATE LOCATION OF ROOF MOUNTED EMERGENCY OUTDOOR GENERATOR UNIT. GENERATOR UNIT SHALL BE C/W VIBRATION ISOLATORS AND REQUIRED 6" HOUSEKEEPING PAD TO SUIT MANUFACTURER REQUIREMENTS. INSTALL GENERATOR TO SUIT SITE CONDITION AND TO MEET CODE REQUIREMENT.
- 2 REFER TO SINGLE LINE AND PANELBOARD FOR ELECTRICAL REQUIREMENT AND CONNECTION.
- 3 EXACT LOCATION TO BE COORDINATED ON SITE TO SUIT SITE CONDITION AND INSTALL ACCORDINGLY.
- 4 TO BE CONTROLLED BY LIGHTING SWITCH LOCATED AT 3RD FLOOR ELECTRICAL FLOOR.

CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS. REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS.

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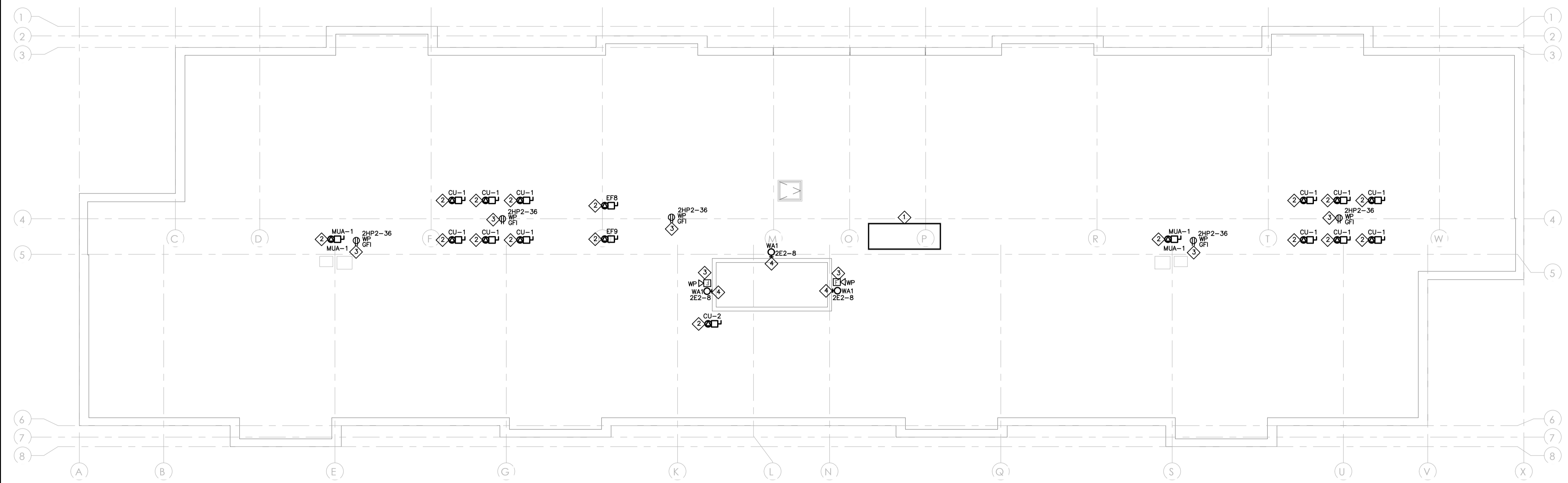
No.	Date	Description	By
1	2024/04/12	ISSUED FOR PERMIT	BV
2	2024/07/30	ISSUED FOR TENDER	BV

PRIOR TO PROJECT CONSTRUCTION COMPLETION!!!

GENERAL CONTRACTOR - MANDATORY DELIVERABLES (WHERE APPLICABLE)

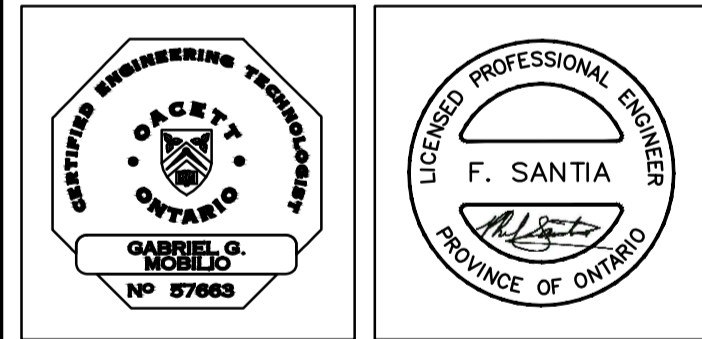
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- ALL OPERATION AND MAINTENANCE MANUALS
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CONSULTING ENGINEERS LIGHTING - ELECTRICAL

595 CITYVIEW BLVD, SUITE 204/205
VAUGHAN, ONTARIO, CANADA L4H 3M7
Tel: (905) 417-6881 Fax: (905) 417-6882
www.e-lumen.ca



Project Title

32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
20 SOUTH STREET,
TRENTON, ON

City of Quinte West

Sheet Title

ELECTRICAL ROOF FLOOR PLAN

Drawn DD/MU	Checked BV
Date June 2023	Scale
Project Number 23-019	Sheet Number E-500

GENERATOR/ATS NOTES:

- ① 100kW/125kVA OUTDOOR NATURAL GAS GENERATOR UNIT C/W 150A-3P (T.D. TYPE), 600V MAIN BREAKER, 347/600V, 4W, 3Φ C/W SOUND ATTENUATED WEATHERPROOF ENCLOSURE, DISTRIBUTION PANEL, 120/208V, 3W, SINGLE PHASE, 125A, 24 CIRCUITS CAPACITY AND C/W 70A-2P MAIN BREAKER, GENERATOR SHALL BE C/W CONTROL PANEL, BATTERY, HEATERS, 125A, 120/208V PANELBOARD, RECEPTACLE OUTLET, LIGHTING LUMINAIRE, VIBRATION ISOLATORS, ETC. PROVIDE 3 #4 + GND - 1" C AT THIS GENERATOR LOCATION UP TO REQUIRED DIST. PANEL LOCATION TO SUIT ELECTRICAL CONNECTION. PROVIDE ADDITIONAL 3-1" C UP TO ELECTRICAL ROOM and to APPROPRIATE LOCATION TO SUIT CODE REQUIREMENT.
- ② 100A-3P, 3PHASE, 4W 600V, 3Φ TRANSFER SWITCH, C/W BY-PASS SWITCH TO SUIT CODE REQUIREMENT.

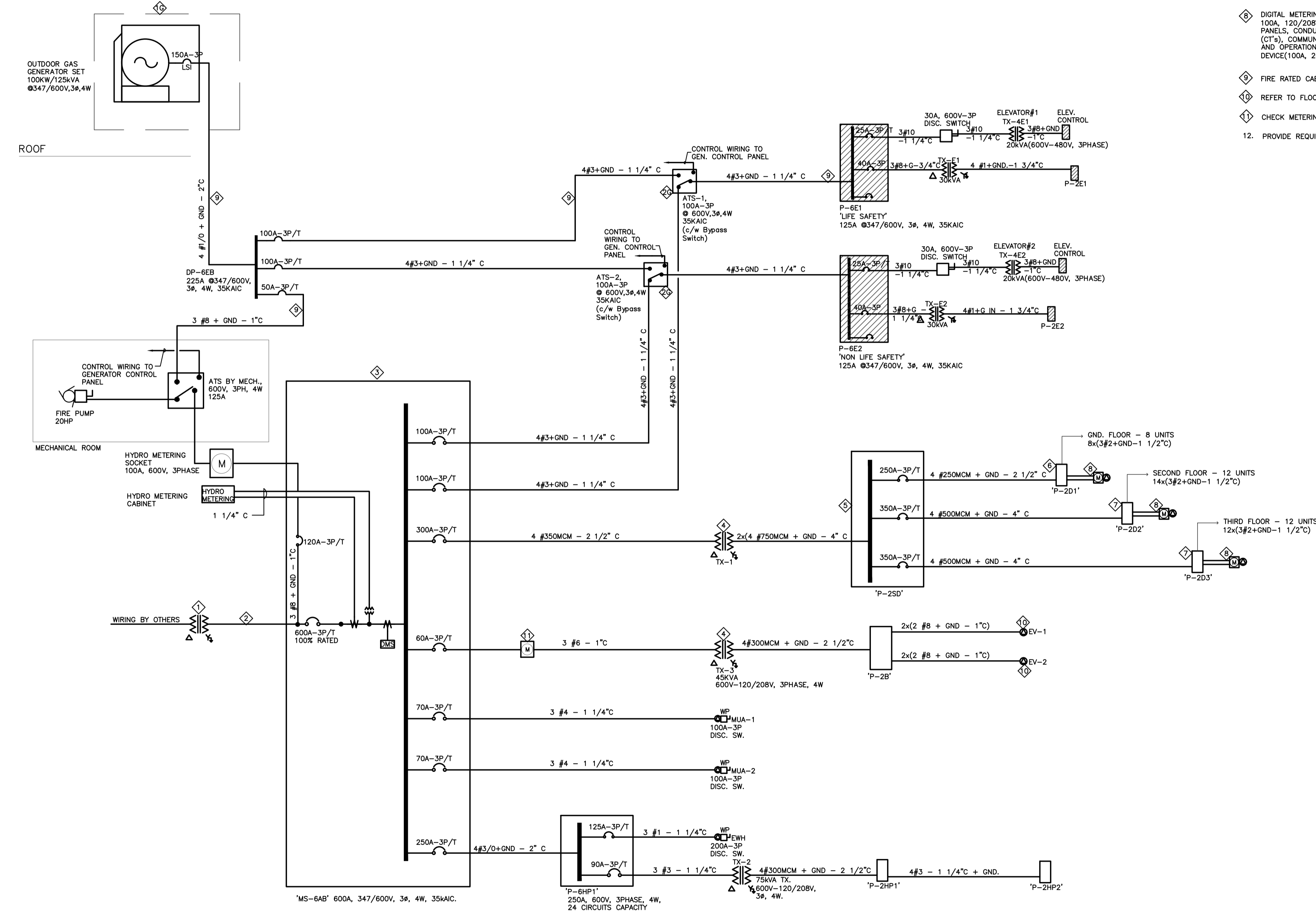
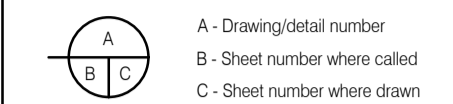


DIAGRAM NOTES:

- ① HYDRO OUTDOOR PAD MOUNTED TRANSFORMER BY OTHERS. REFER TO SITE PLAN FOR DETAILS.
- ② UNDERGROUND SECONDARY WIRING 2x(4#500MCM AL-4" C).
- ③ MAIN SWITCHBOARD 'MS-BAB' 600A, 347/600V, 3Φ, 4W, 35KAIC. REFER TO FLOOR PLAN FOR LAYOUTS.
- ④ TX-1, 250KVA TRANSFORMER 600-120/208V, 3Φ, 4W.
- ⑤ SUITE'S MAIN DISTRIBUTION BOARD, 1000A, 120/208V, 3Φ, 4W, 50KAIC.
- ⑥ 250A, 120/208V, 3Φ, 4W SUITE'S DISTRIBUTION PANELBOARD, 42 CIRCUITS CAPACITY.
- ⑦ 400A, 120/208V, 3Φ, 4W SUITE'S DISTRIBUTION PANELBOARD, 42 CIRCUITS CAPACITY.
- ⑧ DIGITAL METERING SYSTEM QUADLOGIC/CARMA PANEL CONTROL SYSTEM, 100A, 120/208V, 1Φ, 3W SYSTEM, DIVISION 16 TO INSTALL C/W ALL REQUIRED PANELS, CONDUITS, CONTROL WIRING, AC CIRCUITS, CURRENT TRANSFORMERS (CT's), COMMUNICATION AND OTHER ACCESSORIES FOR A COMPLETE INSTALLATION AND OPERATION TO SUIT. ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED AMMETER DEVICE(100A, 208V) SYSTEM WITHIN SUITE'S DISTRIBUTION BOARD.
- ⑨ FIRE RATED CABLE, AS PER CODE REQUIREMENT, 1 HR MIN.
- ⑩ REFER TO FLOOR PLAN FOR LOCATION AND REQUIREMENT TO SUIT.
- ⑪ CHECK METERING, 600V, 100A, 3PHASE.
- 12. PROVIDE REQUIRED COORDINATION AND GROUNDING STUDIES.

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32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
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ELECTRICAL SINGLE LINE DIAGRAM

Drawn DD/MU	Checked BV
Date June 2023	Scale N.T.S
Project Number 23-019	Sheet Number E-600

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PRIOR TO PROJECT CONSTRUCTION COMPLETION!!!!

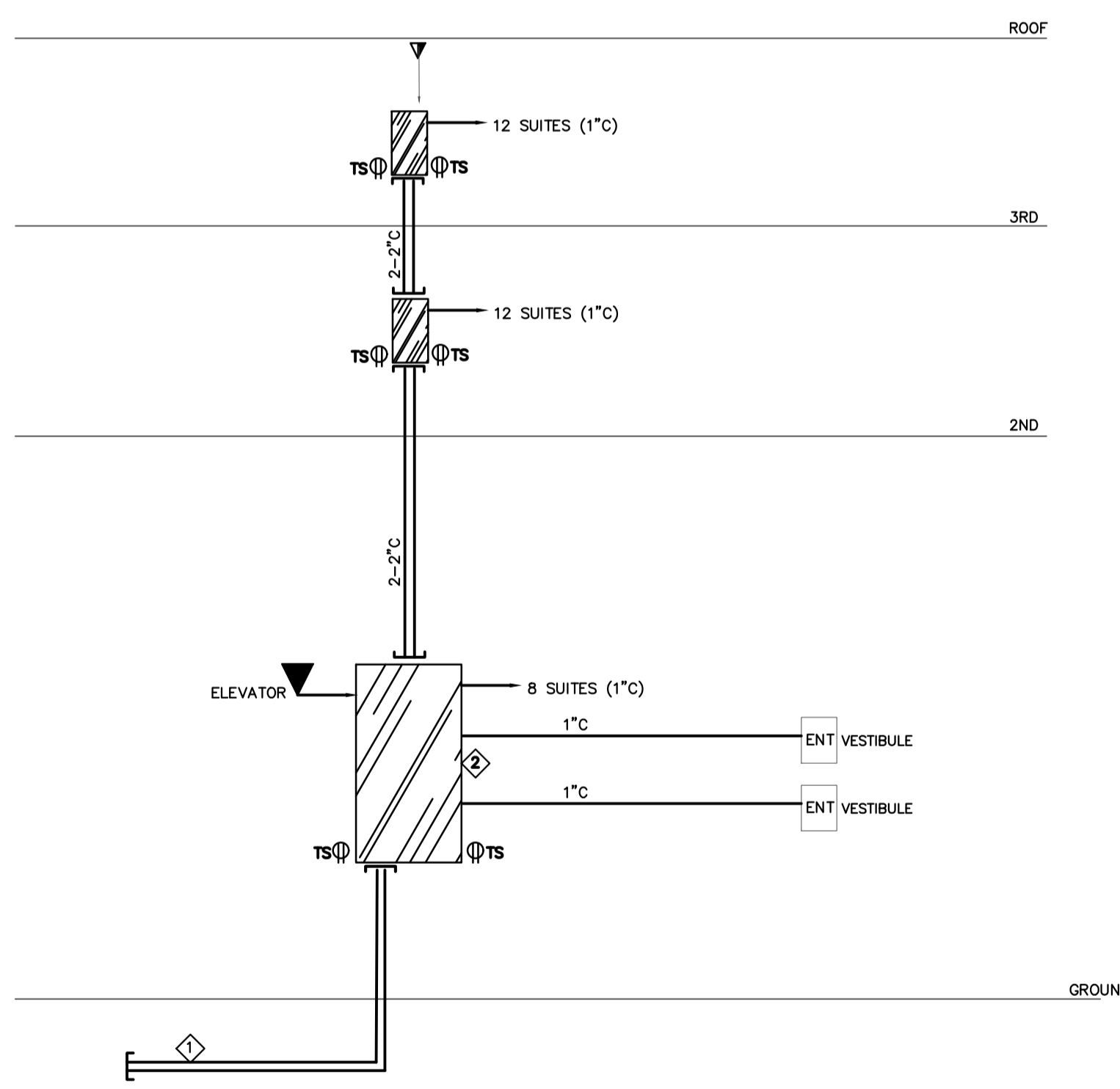
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NOTES:

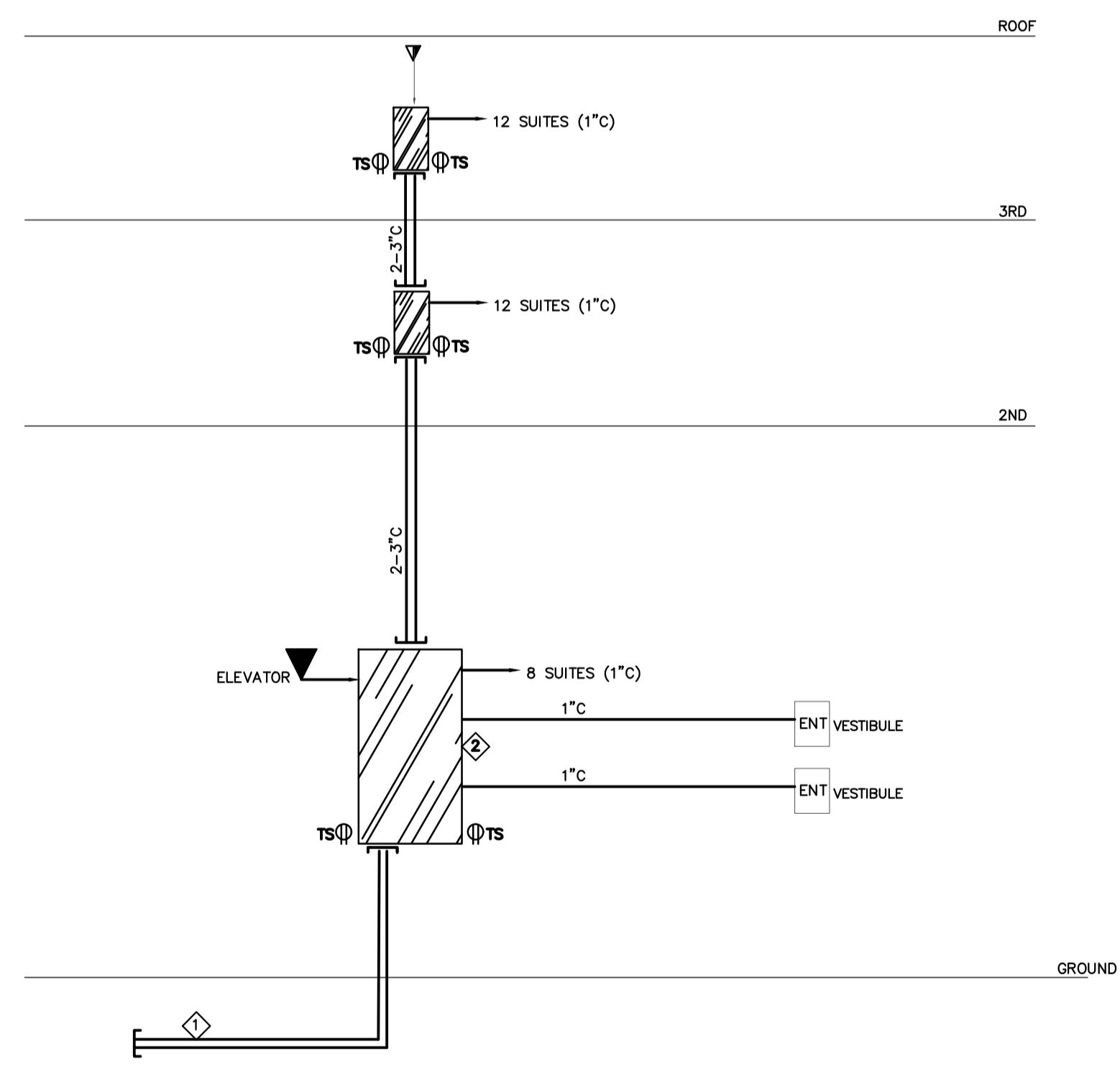
- 1. INCOMING 2-4" C FOR BELL WITHIN PERIMETER OF PROPERTY LINE ACCORDINGLY PROVIDE REQUIRED 24"x24"x12" JUNCTION BOX COMPLETE WITH COVER TO SUIT.
- 2. 4"x8"x3/4" FIRE RATED PLYWOOD BACKBOARD FOR COMMUNICATION, TYPICAL.
- 3. REFER TO PANEL SCHEDULES OR DETAILS OF ROOMS FOR RECEPTACLES POWER CIRCUITING.



1 TELEPHONE RISERS
 E800 SCALE: N.T.S

NOTES:

- 1. INCOMING 2-4" C FOR BELL WITHIN PERIMETER OF PROPERTY LINE ACCORDINGLY PROVIDE REQUIRED 24"x24"x12" JUNCTION BOX COMPLETE WITH COVER TO SUIT.
- 2. 4"x8"x3/4" FIRE RATED PLYWOOD BACKBOARD FOR COMMUNICATION, TYPICAL.
- 3. REFER TO PANEL SCHEDULES OR DETAILS OF ROOMS FOR RECEPTACLES POWER CIRCUITING.



2 CABLE RISERS
 E800 SCALE: N.T.S

**CONSULTING ENGINEERS
 LIGHTING - ELECTRICAL**

595 CITYVIEW BLVD, SUITE 204/205
 VAUGHAN, ONTARIO, CANADA L4H 3M7
 Tel: (905) 417-8881 Fax: (905) 417-8882
 www.e-lumen.ca



Project Title
**32 UNIT AFFORDABLE
 HOUSING APARTMENT
 BUILDING**
 20 SOUTH STREET,
 TRENTON, ON
 City of Quinte West

Sheet Title
**SECURITY AND
 COMMUNICATION RISERS**

Drawn DD/MU	Checked BV
Date June 2023	Scale N.T.S.

Project Number 23-019	Sheet Number E-800
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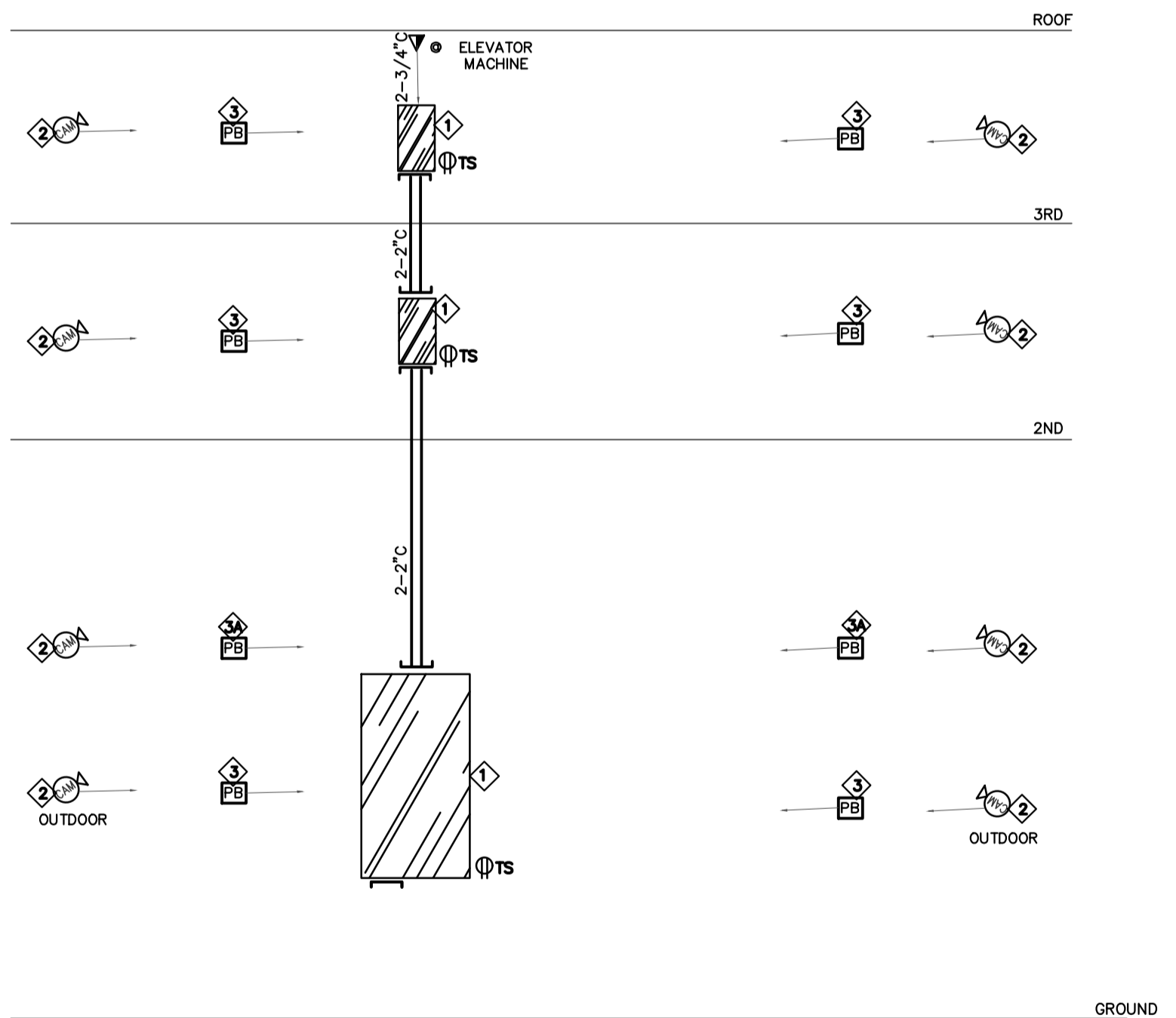
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NOTES:

- 1. SECURITY CONTROLLER. EXACT LOCATION TO BE COORDINATED ON SITE TO SUIT.
- 2. SECURITY CAMERA C/W REQUIRED JUNCTION BOX AND 3/4" C. TERMINATE TO NEAREST PULL BOX LOCATION.
- 3. 10"x10"x6" PULL BOX WITHIN CEILING SPACE C/W REQUIRED COVER AND 1 1/2" CONDUIT SYSTEM AND UP TO SECURITY CONTROLLER PANEL LOCATION TO SUIT.
- 4. 10"x10"x6" PULL BOX WITHIN CEILING SPACE C/W REQUIRED COVER AND 2" CONDUIT SYSTEM AND UP TO SECURITY CONTROLLER PANEL LOCATION TO SUIT.
- 5. CAMERA AND OTHER SECURITY DEVICES C/W WIRING TO PROVIDED BY SECURITY CONTRACTOR. TERMINATION BY SECURITY CONTRACTOR.
- 6. REFER TO FLOOR PLANS FOR EXACT LOCATION OF SECURITY CAMERAS AND COORDINATE ON SITE.
- 7. DIAGRAM SHOWN INTENT ONLY. PROVIDE REQUIRED CONDUIT SYSTEM C/W ALL MOUNTING ACCESSORIES TO SUIT.
- 8. CAMERA WORK BY OWNER'S VENDOR OF RECORD.



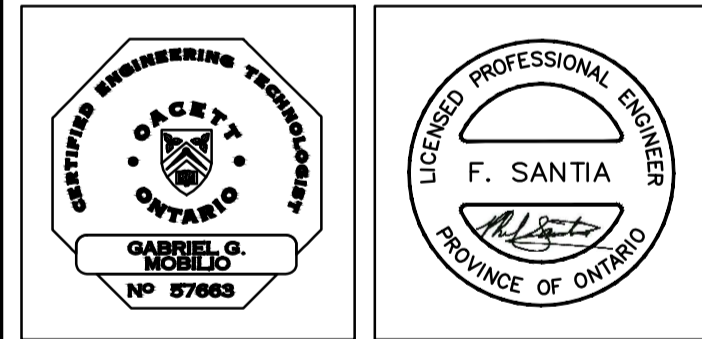
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 595 CITYVIEW BLVD, SUITE 204/205
 VAUGHAN, ONTARIO, CANADA L4H 3M7
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Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
 20 SOUTH STREET,
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 City of Quinte West

Sheet Title
SECURITY DETAILS

Drawn: DD/MU
 Date: June 2023
 Checked: BV
 Scale: N.T.S.

Project Number: 23-019
 Sheet Number: E-800A

1 SECURITY CAMERA DETAIL
 E800A SCALE: N.T.S.

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
OUTDOOR POLE LIGHTS (X10)		20A	1	A	2	20A		CORRIDOR LTG - GND FL
OUTDOOR DOWNLIGHTS (X12)		20A	3	B	4	20A		COMMON RM, OFFICE LTG
GARBAGE, SCOOTER RMS LTG		20A	5	C	6	20A		COMMON RM RECEP (X5)
UNIVERSAL, STAFF WR LTG		20A	7	A	8	20A		ABOVE COUNTER RECEP/RECES COMMON RM (2#12 AWG+G)
JANITOR WS, STORAGE LTG		20A	9	B	10	20A		MICROWAVE OVEN - COMM RM
UNIVERSAL, STAFF WR RECEP (X2)		15A	11	C	12	15A		CORRIDOR RECEPT - GND FL
GARBAGE, SCOOTER RMS RECEPTACLES (X2)		15A	13	A	14	15A		COMMON ROOM RECEP (X5)
JANITOR WS, STORAGE RECEPTACLES (X10)		15A	15	B	16	15A		OFFICE RECEPTACLES (X5)
GROUND FLOOR FF-1		30A	17	C	18	30A		GROUND FLOOR FF-1
GROUND FLOOR FF-1		30A	21	B	22	30A		GROUND FLOOR FF-1
GROUND FLOOR FF-1		30A	25	A	26	30A		GROUND FLOOR FF-1
GROUND FLOOR FF-1		30A	29	C	30	30A		UH-1
UH-2		30A	33	B	34	30A		UH-3
UH-4		30A	37	A	38	15A		SPARE
AC-1		20A	41	C	42	20A		AC-2
2#12 +GND 3/4"C		2P	43	A	44	2P		2#12 +GND 3/4"C
EF-1,2		15A	45	B	46	15A		EF-5,6
EF-3,4		15A	47	C	48	15A		DOOR OPERATOR
HWT CIRCULATING PUMP		15A	49	A	50	15A		UNIVERSAL WASHROOM
MISC. RECEPTACLES		15A	55	A	56	15A		DOOR OPERATOR
SPARE		15A	57	B	58	15A		SPARE
SPARE		15A	59	C	60	15A		SPARE
2HP2		125A	61	A	62	15A		OFFICE RECEPTACLES
		3P	63	B	64	20A		GF RECEPTACLES
		3P	65	C	66	15A		TV RECEPTACLES
P-2HP1		VOLTS: 120/208V		TYPE:				<input type="checkbox"/> FLUSH
		PHASE: 3ø		LOAD(KW):				<input checked="" type="checkbox"/> SURFACE
		WIRE: 4W		LOAD(AMPS):				<input checked="" type="checkbox"/> SPRINKLERPROOF
		MAINS: 400A		LOCATION: GF ELEC RM				<input type="checkbox"/> MAIN BREAKER
		I.C.(KA): 25KA		FED FROM:MS-6AB				<input type="checkbox"/> SPD

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
SPARE		20A	1	A	2	20A		MAIN SECURITY CONTROL- 3F
SPARE		20A	3	B	4	15A		TELEPHONE BACKBOARD-3F
MAIN SECURITY CONTROL- 2F		20A	5	C	6	15A		TELEPHONE BACKBOARD-3F
TELEPHONE BACKBOARD-2F		20A	7	A	8	15A		ROOF LTG
TELEPHONE BACKBOARD-2F		20A	9	B	10	15A		SPARE
CORRIDOR LTG - 2ND FL		20A	11	C	12	15A		SPARE
CORRIDOR LTG - 3RD FL		20A	13	A	14	15A		SPARE
SPARE		15A	15	B	16	15A		SPARE
SPARE		15A	17	C	18	15A		SPARE
SPARE		15A	19	A	20			SPARE
			21	B	22			SPARE
			23	C	24			SPARE
			25	A	26			SPARE
			27	B	28			SPARE
			29	C	30			SPARE
P-2E2		VOLTS: 120/208V		TYPE:				<input type="checkbox"/> FLUSH
		PHASE: 3ø		LOAD(KW):				<input checked="" type="checkbox"/> SURFACE
		WIRE: 4W		LOAD(AMPS):				<input checked="" type="checkbox"/> SPRINKLERPROOF
		MAINS: 125A		LOCATION: 2ND FLOOR				<input type="checkbox"/> MAIN BREAKER
		I.C.(KA): 25KA		FED FROM:DP-6E1				<input type="checkbox"/> SPD

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
ELEVATOR #2		25A	1	A	2	40A		P-2E2
			3	B	4			
			5	C	6			
SPACE			7	A	8			SPACE
			9	B	10			
			11	C	12			
DP-6E2		VOLTS: 347/600V		TYPE:				<input type="checkbox"/> FLUSH
'NON LIFE SAFETY'		PHASE: 3ø		LOAD(KW):				<input checked="" type="checkbox"/> SURFACE
		WIRE: 4W		LOAD(AMPS):				<input checked="" type="checkbox"/> SPRINKLERPROOF
		MAINS: 125A		LOCATION: 2ND FLOOR				<input type="checkbox"/> MAIN BREAKER
		I.C.(KA): 35KA		FED FROM:DP-6EN				<input type="checkbox"/> SPD

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
EXIT SIGNS LTG - GND FL		20A	1	A	2	20A		CORRIDOR LTG - GND FL
EXIT STAIRS LTG (WEST)		20A	3	B	4	20A		MISC. RM LTG - GF
EXIT STAIRS LTG (EAST)		20A	5	C	6	20A		SPARE
VESTIBULE LTG		20A	7	A	8	20A		ELECT/MECH RM GF LTG
ELEVATOR LIGHTING		20A	9	B	10	20A		ELEVATOR LIGHTING
SPARE		15A	11	C	12	20A		ELEVATOR MACHINE RM LTG
SPARE		15A	13	A	14	15A		ELEVATOR CAB CONTROL
ELEVATOR CAB CONTROL		15A	15	B	16	15A		ELEVATOR MACHINE RM RECEPT
VESTIBULE RECEPTACLES		15A	17	C	18	15A		SERV CORR, JAN CLOSET
MAIN SECURITY CONTROL		15A	19	A	20	20A		SERV CORR, JAN CLOSET LTG
TELEPHONE BACKBOARD		15A	21	B	22	15A		ELEVATOR PIT LIGHTING
TELEPHONE BACKBOARD		15A	23	C	24	15A		SPARE
SPARE		15A	25	A	26	15A		SPARE
			27	B	28			SPARE
			29	C	30			SPARE
P-2E1		VOLTS: 120/208V		TYPE:				<input type="checkbox"/> FLUSH
		PHASE: 3ø		LOAD(KW):				<input checked="" type="checkbox"/> SURFACE
		WIRE: 4W		LOAD(AMPS):				<input checked="" type="checkbox"/> SPRINKLERPROOF
		MAINS: 125A		LOCATION: 2ND FLOOR				<input type="checkbox"/> MAIN BREAKER
		I.C.(KA): 25KA		FED FROM:DP-6E1				<input type="checkbox"/> SPD

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
CORRIDOR LTG - 2ND FL		15A	1	A	2	30A		2ND FLOOR LAUNDRY ROOM DRYER
CORRIDOR RECEPT - 2ND FL		15A	3	B	4	2P		2ND FLOOR LAUNDRY ROOM DRYER
CORRIDOR LTG - 3RD FL		15A	5	C	6	30A		2ND FLOOR LAUNDRY ROOM DRYER
CORRIDOR RECEPT - 3RD FL		15A	7	A	8	2P		2ND FLOOR LAUNDRY ROOM DRYER
2ND FLOOR LAUNDRY RM WM		15A	9	B	10	30A		2ND FLOOR LAUNDRY ROOM DRYER
2ND FLOOR LAUNDRY RM WM		15A	11	C	12	2P		2ND FLOOR LAUNDRY ROOM DRYER
2ND FLOOR LAUNDRY RM WM		15A	13	A	14	30A		2ND FLOOR LAUNDRY ROOM DRYER
2ND FLOOR LAUNDRY RM WM		15A	15	B	16	2P		2ND FLOOR LAUNDRY ROOM DRYER
3RD FLOOR LAUNDRY RM WM		15A	17	C	18	30A		3RD FLOOR LAUNDRY ROOM DRYER
3RD FLOOR LAUNDRY RM WM		15A	19	A	20	2P		3RD FLOOR LAUNDRY ROOM DRYER
3RD FLOOR LAUNDRY RM WM		15A	21	B	22	30A		3RD FLOOR LAUNDRY ROOM DRYER
3RD FLOOR LAUNDRY RM WM		15A	23	C	24	2P		3RD FLOOR LAUNDRY ROOM DRYER
2ND FLOOR LAUNDRY RM, JANITOR CLOSET GF RECEPT		15A	25	A	26	30A		3RD FLOOR LAUNDRY ROOM DRYER
2ND FLOOR LAUNDRY RM, JANITOR CLOSET GF RECEPT		15A	27	B	28	2P		3RD FLOOR LAUNDRY ROOM DRYER
2ND FLOOR LAUNDRY RM, JANITOR CLOSET LTG		20A	29	C	30	30A		3RD FLOOR LAUNDRY ROOM DRYER
3RD FLOOR LAUNDRY RM, JANITOR CLOSET LTG		20A	31	A	32	2P		3RD FLOOR LAUNDRY ROOM DRYER
2ND FLOOR FF-1	4000W	30A	33	B	34	15A		EF-7
		2P	35	C	36	15A		ROOF RECEPTACLE
2ND FLOOR FF-1	4000W	30A	37	A	38	15A		LAUNDRY ROOM PRESS. CONTR
		2P	39	B	40	15A		LAUNDRY ROOM PRESS. CONTR
		30A	41	C	42	15A		RECEPTACLES 2ND/3RD LNDRY
LAUNDRY ROOM FAN POWER SUPPLY		43	A	44	15A			DOOR OPERATOR
		3P	45	B	46			
			47	C	48			
			49	A	50			
			51	B	52			
			53	C	54			
			55	A	56			
			57	B	58			
			59	C	60			
			61	A	62			
			63	B	64			
			65	C	66			
P-2HP2		VOLTS: 120/208V		TYPE:				<input type="checkbox"/> FLUSH
		PHASE: 3ø		LOAD(KW):				<input checked="" type="checkbox"/> SURFACE
		WIRE: 4W		LOAD(AMPS):				<input checked="" type="checkbox"/> SPRINKLERPROOF
		MAINS: 225A		LOCATION: GF ELEC RM				<input type="checkbox"/> MAIN BREAKER
		I.C.(KA): 25KA		FED FROM:MS-6AB				<input type="checkbox"/> SPD

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
ELEVATOR #1		25A	1	A	2	40A		P-2E1
			3	B	4			
			5	C	6			
JOCKEY PUMP		15A	7	A	8			SPACE
			9	B	10			
			11	C	12			
DP-6E1		VOLTS: 347/600V		TYPE:				<input type="checkbox"/> FLUSH
'LIFE SAFETY'		PHASE: 3ø		LOAD(KW):				<input checked="" type="checkbox"/> SURFACE
		WIRE: 4W		LOAD(AMPS):				<input checked="" type="checkbox"/> SPRINKLERPROOF
		MAINS: 125A		LOCATION: 2ND FLOOR				<input checked="" type="checkbox"/> MAIN BREAKER
		I.C.(KA): 35KA		FED FROM:DP-6EN				<input type="checkbox"/> SPD

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
COMMUNICATION RECEPTACLE OUTLET		15A	1	A	2	15A		KITCHEN LIGHTING/KITCHEN EXHAUST FAN (KEF-1)
LIVING/DINING RM. RECEPTACLES/LIGHTING		15A	3	B	4	20A		ABOVE COUNTER RECEPTACLES (2#12 AWG+G)
FOYER/CORRIDOR RECEPT/LTG., COMBI SMOKE ALARMS/STROBES, SMOKE/CARBON MONOXIDE		15A	5	A	6	20A		ABOVE COUNTER RECEPTACLES (2#12 AWG+G)
BATHROOM RM. GF RECEPTACLE/LIGHTING/EF		15A	7	B	8	15A		FRIDGE
BEDROOM RM. GF RECEPTACLE/LIGHTING/EF		15A	9	A	10	15A		DISHWASHER
ERV-1		15A	11	B	12	15A		MICROWAVE
(MASTER BEDRM. RECEPTACLE/LIGHTING) 2BEDRM.		15A	13	A	14	15A		HP-1
SPARE		15A	15	B	16	2P		
SPACE			17	A	18	40A		STOVE (4#8 AWG WIRING)
SPACE			19	B	20	2P		
SPACE			21	A	22	15A		SPARE
SPACE			23	B	24	15A		SPARE
PANEL "S1"		VOLTS: 120/208V		TYPE:				<input checked="" type="checkbox"/> FLUSH
(TYPICAL FOR 1BR, 2BR SUITES)		PHASE: 3ø		LOAD(KW):				<input type="checkbox"/> SURFACE
		WIRE: 4W		LOAD(AMPS):				<input type="checkbox"/> SPRINKLERPROOF
		MAINS: 125A		LOCATION: SUITE SPACE				<input checked="" type="checkbox"/> MAIN BREAKER (100A-2P)
		I.C.(KA): 25KA		FED FROM:2D1/2/3				<input type="checkbox"/> TVSS

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
COMMUNICATION RECEPTACLE OUTLET		15A	1	A	2	15A		KITCHEN LIGHTING/KITCHEN EXHAUST FAN (KEF-1)
LIVING/DINING RM. RECEPTACLES/LIGHTING		15A	3	B	4	20A		ABOVE COUNTER RECEPTACLES (2#12 AWG+G)
FOYER/CORRIDOR RECEPT/LTG., COMBI SMOKE ALARMS/STROBES, SMOKE/CARBON MONOXIDE		15A	5	A	6	20A		ABOVE COUNTER RECEPTACLES (2#12 AWG+G)
BATHROOM RM. GF RECEPTACLE/LIGHTING/EF		15A	7	B	8	15A		FRIDGE
BEDROOM RM. GF RECEPTACLE/LIGHTING/EF		15A	9	A	10	15A		DISHWASHER
ERV-1		15A	11	B	12	15A		MICROWAVE
(MASTER BEDRM. RECEPTACLE/LIGHTING) 2BEDRM.		15A	13	A	14	15A		HP-1
(MASTER BEDRM. RECEPTACLE/LIGHTING) 3BEDRM.		15A	15	B	16	2P		
SPACE			17	A	18	40A		STOVE (4#8 AWG WIRING)
SPACE			19	B	20	2P		
SPACE			21	A	22	15A		SPARE
SPACE			23	B	24	15A		SPARE
PANEL "S2"		VOLTS: 120/208V		TYPE:				<input checked="" type="checkbox"/> FLUSH
(TYPICAL FOR 3BR SUITES)		PHASE: 3ø		LOAD(KW):				<input type="checkbox"/> SURFACE
		WIRE: 4W		LOAD(AMPS):				<input type="checkbox"/> SPRINKLERPROOF
		MAINS: 125A		LOCATION: SUITE SPACE				<input checked="" type="checkbox"/> MAIN BREAKER (100A-2P)
		I.C.(KA): 25KA		FED FROM:2D1/2/3				<input type="checkbox"/> TVSS

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
ELEVATOR #1		25A	1	A	2	40A		P-2E1
			3	B	4			
			5	C	6			
JOCKEY PUMP		15A	7	A	8			SPACE
			9	B	10			
			11	C	12			
DP-6E1		VOLTS: 347/600V						

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
			1	A	2			
			3	B	4			
			5	C	6			
			7	A	8			
			9	B	10			
			11	C	12			
			13	A	14			
			15	B	16			
			17	C	18			
P-2HP1	60KW	90A	19	A	20	125A	90KW	DHWT
			21	B	22			
			23	C	24			

VOLTS: 600V
 PHASE: 3 ϕ
 WIRE: 4W
 MAINS: 250A
 I.C.(KA): 35KA
 TYPE:
 LOAD(KW):
 LOAD(AMPS):
 LOCATION: MAIN ELECT. RM.
 FED FROM: MSB-6AB
 FLUSH
 SURFACE
 SPRINKLERPROOF
 MAIN BREAKER
 SPD

NOTES:
 1. PROVIDE DOUBLE SIZED NEUTRAL BUS.
 2. THE MAINS SHALL BE COPPER AND SUITABLE FOR BOLT-ON BREAKERS.
 3. COMPLETE CIRCUIT DIRECTORY WITH TYPED LEGEND SHOWING LOCATION OF EACH CIRCUIT.
 4. CIRCUIT NUMBER FOR GROUPING PURPOSE ONLY.
 5. PANEL SHALL BE WITH ISOLATED GROUND BAR.
 6. ** DENOTES LOCK TYPE BREAKER

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
SUITE 1 (FLOOR 1)		100A	1	A	2	100A		SUITE 2 (FLOOR 1)
			3	B	4			
SUITE 3 (FLOOR 1)		100A	5	C	6	100A		SUITE 4 (FLOOR 1)
			7	A	8			
SUITE 5 (FLOOR 1)		100A	9	B	10	100A		SUITE 6 (FLOOR 1)
			11	C	12			
SUITE 7 (FLOOR 1)		100A	13	A	14	100A		SUITE 8 (FLOOR 1)
			15	B	16			
			17	C	18			
			19	A	20			
			21	B	22			
			23	C	24			
			25	A	26			
			27	B	28			
			29	C	30			
			31	B	32			
			33	C	34			
			35	A	36			
			37	B	38			
			39	C	40			
			41	A	42			

VOLTS: 120/208V
 PHASE: 3 ϕ
 WIRE: 4W
 MAINS: 250A
 I.C.(KA): 25KA
 TYPE:
 LOAD(KW):
 LOAD(AMPS):
 LOCATION: 2ND FLOOR
 FED FROM: DP-6E1
 FLUSH
 SURFACE
 SPRINKLERPROOF
 MAIN BREAKER
 SPD

NOTES:
 1. PROVIDE DOUBLE SIZED NEUTRAL BUS.
 2. THE MAINS SHALL BE COPPER AND SUITABLE FOR BOLT-ON BREAKERS.
 3. COMPLETE CIRCUIT DIRECTORY WITH TYPED LEGEND SHOWING LOCATION OF EACH CIRCUIT.
 4. CIRCUIT NUMBER FOR GROUPING PURPOSE ONLY.
 5. PANEL SHALL BE WITH ISOLATED GROUND BAR.
 6. ** DENOTES LOCK TYPE BREAKER

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
SUITE 21 (FLOOR 3)		100A	1	A	2	100A		SUITE 22 (FLOOR 3)
			3	B	4			
SUITE 23 (FLOOR 3)		100A	5	C	6	100A		SUITE 24 (FLOOR 3)
			7	A	8			
SUITE 25 (FLOOR 3)		100A	9	B	10	100A		SUITE 26 (FLOOR 3)
			11	C	12			
SUITE 27 (FLOOR 3)		100A	13	A	14	100A		SUITE 28 (FLOOR 3)
			15	B	16			
SUITE 29 (FLOOR 3)		100A	17	C	18	100A		SUITE 30 (FLOOR 3)
			19	A	20			
SUITE 31 (FLOOR 3)		100A	21	B	22	100A		SUITE 32 (FLOOR 3)
			23	C	24			
			25	A	26			
			27	B	28			
			29	C	30			
			31	B	32			
			33	C	34			
			35	A	36			
			37	B	38			
			39	C	40			
			41	A	42			

VOLTS: 120/208V
 PHASE: 3 ϕ
 WIRE: 4W
 MAINS: 400A
 I.C.(KA): 25KA
 TYPE:
 LOAD(KW):
 LOAD(AMPS):
 LOCATION: 2ND FLOOR
 FED FROM: DP-6E1
 FLUSH
 SURFACE
 SPRINKLERPROOF
 MAIN BREAKER
 SPD

NOTES:
 1. PROVIDE DOUBLE SIZED NEUTRAL BUS.
 2. THE MAINS SHALL BE COPPER AND SUITABLE FOR BOLT-ON BREAKERS.
 3. COMPLETE CIRCUIT DIRECTORY WITH TYPED LEGEND SHOWING LOCATION OF EACH CIRCUIT.
 4. CIRCUIT NUMBER FOR GROUPING PURPOSE ONLY.
 5. PANEL SHALL BE WITH ISOLATED GROUND BAR.
 6. ** DENOTES LOCK TYPE BREAKER

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
EV-1(2#6+GND - 1" C)		90A	1	A	2	90A		EV-2(2#8+GND - 1" C)
			3	B	4			
EV-1(2#6+GND - 1" C)		90A	5	C	6	90A		EV-2(2#8+GND - 1" C)
			7	A	8			
			9	B	10			
			11	C	12			
			13	A	14			
			15	B	16			
			17	C	18			
			19	A	20			
			21	B	22			
			23	C	24			

VOLTS: 120/208V
 PHASE: 3 ϕ
 WIRE: 4W
 MAINS: 225A
 I.C.(KA): 20KA
 TYPE:
 LOAD(KW):
 LOAD(AMPS):
 LOCATION: MAIN ELECT. RM.
 FED FROM: MSB-6AB
 FLUSH
 SURFACE
 SPRINKLERPROOF
 MAIN BREAKER
 SPD

NOTES:
 1. PROVIDE DOUBLE SIZED NEUTRAL BUS.
 2. THE MAINS SHALL BE COPPER AND SUITABLE FOR BOLT-ON BREAKERS.
 3. COMPLETE CIRCUIT DIRECTORY WITH TYPED LEGEND SHOWING LOCATION OF EACH CIRCUIT.
 4. CIRCUIT NUMBER FOR GROUPING PURPOSE ONLY.
 5. PANEL SHALL BE WITH ISOLATED GROUND BAR.
 6. ** DENOTES LOCK TYPE BREAKER

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
SUITE 9 (FLOOR 2)		100A	1	A	2	100A		SUITE 10 (FLOOR 2)
			3	B	4			
SUITE 11 (FLOOR 2)		100A	5	C	6	100A		SUITE 12 (FLOOR 2)
			7	A	8			
SUITE 13 (FLOOR 2)		100A	9	B	10	100A		SUITE 14 (FLOOR 2)
			11	C	12			
SUITE 15 (FLOOR 2)		100A	13	A	14	100A		SUITE 16 (FLOOR 2)
			15	B	16			
SUITE 17 (FLOOR 2)		100A	17	C	18	100A		SUITE 18 (FLOOR 2)
			19	A	20			
SUITE 19 (FLOOR 2)		100A	21	B	22	100A		SUITE 20 (FLOOR 2)
			23	C	24			
			25	A	26			
			27	B	28			
			29	C	30			
			31	B	32			
			33	C	34			
			35	A	36			
			37	B	38			
			39	C	40			
			41	A	42			

VOLTS: 120/208V
 PHASE: 3 ϕ
 WIRE: 4W
 MAINS: 400A
 I.C.(KA): 25KA
 TYPE:
 LOAD(KW):
 LOAD(AMPS):
 LOCATION: 2ND FLOOR
 FED FROM: DP-6E1
 FLUSH
 SURFACE
 SPRINKLERPROOF
 MAIN BREAKER
 SPD

NOTES:
 1. PROVIDE DOUBLE SIZED NEUTRAL BUS.
 2. THE MAINS SHALL BE COPPER AND SUITABLE FOR BOLT-ON BREAKERS.
 3. COMPLETE CIRCUIT DIRECTORY WITH TYPED LEGEND SHOWING LOCATION OF EACH CIRCUIT.
 4. CIRCUIT NUMBER FOR GROUPING PURPOSE ONLY.
 5. PANEL SHALL BE WITH ISOLATED GROUND BAR.
 6. ** DENOTES LOCK TYPE BREAKER

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH	CCT NO.	BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
SUITE 21 (FLOOR 3)		100A	1	A	2	100A		SUITE 22 (FLOOR 3)
			3	B	4			
SUITE 23 (FLOOR 3)		100A	5	C	6	100A		SUITE 24 (FLOOR 3)
			7	A	8			
SUITE 25 (FLOOR 3)		100A	9	B	10	100A		SUITE 26 (FLOOR 3)
			11	C	12			
SUITE 27 (FLOOR 3)		100A	13	A	14	100A		SUITE 28 (FLOOR 3)
			15	B	16			
SUITE 29 (FLOOR 3)		100A	17	C	18	100A		SUITE 30 (FLOOR 3)
			19	A	20			
SUITE 31 (FLOOR 3)		100A	21	B	22	100A		SUITE 32 (FLOOR 3)
			23	C	24			
			25	A	26			
			27	B	28			
			29	C	30			
			31	B	32			
			33	C	34			
			35	A	36			
			37	B	38			
			39	C	40			
			41	A	42			

VOLTS: 120/208V
 PHASE: 3 ϕ
 WIRE: 4W
 MAINS: 400A
 I.C.(KA): 25KA
 TYPE:
 LOAD(KW):
 LOAD(AMPS):
 LOCATION: 2ND FLOOR
 FED FROM: DP-6E1
 FLUSH
 SURFACE
 SPRINKLERPROOF
 MAIN BREAKER
 SPD

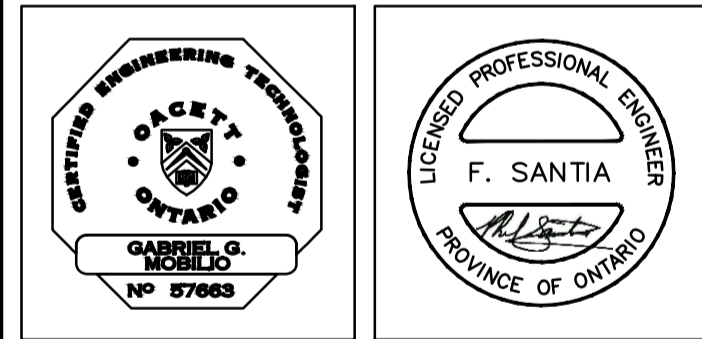
NOTES:
 1. PROVIDE DOUBLE SIZED NEUTRAL BUS.
 2. THE MAINS SHALL BE COPPER AND SUITABLE FOR BOLT-ON BREAKERS.
 3. COMPLETE CIRCUIT DIRECTORY WITH TYPED LEGEND SHOWING LOCATION OF EACH CIRCUIT.
 4. CIRCUIT NUMBER FOR GROUPING PURPOSE ONLY.
 5. PANEL SHALL BE WITH ISOLATED GROUND BAR.
 6. ** DENOTES LOCK TYPE BREAKER

CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS. REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS.

No.	Date	Description	By
1	2024/04/12	ISSUED FOR PERMIT	BV
2	2024/07/30	ISSUED FOR TENDER	BV

PRIOR TO PROJECT CONSTRUCTION COMPLETION!!!
 GENERAL CONTRACTOR - MANDATORY DELIVERABLES (WHERE APPLICABLE)
 ALL ITEMS LISTED BELOW ARE TO BE DELIVERED TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION FOR THIS BUILDING PERMIT:
 - ALL OPERATION AND MAINTENANCE MANUALS
 - ALL PRODUCT DATA THAT PERTAINS TO ALL FIRESTOPPING MATERIALS USED
 - VERIFICATION LETTER BY A CERTIFIED AND LICENSED SPRINKLER AND LIFE SAFETY SYSTEMS CONTRACTOR - LETTER TO VERIFY INSTALLATION AND/OR MODIFICATIONS AND TESTING PERFORMED AND COMPLETED IN ACCORDANCE WITH NFPA 13
 - ALL ESA REPORTS, FINAL SIGN OFF AND PERMITS
 - VERIFICATION LETTER BY A CERTIFIED AND LICENSED EMERGENCY LIGHTING AND LIFE SAFETY SYSTEMS CONTRACTOR
 - CERTIFICATES OF FIRE ALARM VERIFICATION
 - HYDRO INSPECTION CERTIFICATES
 - EMERGENCY LIGHTING TEST REPORT
 - TESTING, AIR BALANCING, ADJUSTING REPORTS FOR ALL HVAC SYSTEMS
 - ALL STRUCTURAL STEEL SHOP DRAWINGS AND ENGINEERING REVIEWS
 - ALL SITE VISIT REPORTS PROVIDED BY PROFESSIONAL DISCIPLINES
 - OCCUPANCY AND COMPLIANCE LETTERS FROM ALL PROFESSIONAL DISCIPLINES

CONSULTING ENGINEERS LIGHTING - ELECTRICAL
 595 CITYVIEW BLVD, SUITE 204/205
 VAUGHAN, ONTARIO, CANADA L4H 3M7
 Tel: (905) 417-6881 Fax: (905) 417-6882
 www.e-lumen.ca



Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
 20 SOUTH STREET, TRENTON, ON
 City of Quinte West

Sheet Title
ELECTRICAL PANEL SCHEDULES

Drawn DD/MU	Checked BV
Date June 2023	Scale N.T.S.
Project Number 23-019	Sheet Number E-900B

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH NO.	CCT BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
			1	A	2		
			3	B	4		
			5	C	6		
			7	A	8		
			9	B	10		
			11	C	12		
			13	A	14		
			15	B	16		
			17	C	18		
P-2HP1	60KW	90A	19	A	20	125A	90KW DHWT
			21	B	22		
			23	C	24		

P-6HP1	VOLTS: 600V	TYPE:	<input type="checkbox"/> FLUSH
	PHASE: 3Ø	LOAD(KW):	<input checked="" type="checkbox"/> SURFACE
	WIRE: 4W	LOAD(AMPS):	<input checked="" type="checkbox"/> SPRINKLERPROOF
	MAINS: 250A	LOCATION: MAIN ELECT. RM.	<input type="checkbox"/> MAIN BREAKER
	I.C.(KA): 35ka	FED FROM: MSB-6AB	<input type="checkbox"/> SPD

- NOTES:
1. PROVIDE DOUBLE SIZED NEUTRAL BUS.
 2. THE MAINS SHALL BE COPPER AND SUITABLE FOR BOLT-ON BREAKERS.
 3. COMPLETE CIRCUIT DIRECTORY WITH TYPED LEGEND SHOWING LOCATION OF EACH CIRCUIT.
 4. CIRCUIT NUMBER FOR GROUPING PURPOSE ONLY.
 5. PANEL SHALL BE WITH ISOLATED GROUND BAR.
 6. ** DENOTES LOCK TYPE BREAKER

LOAD DESCRIPTION	LOAD (W)	BRKR SIZE	CCT NO.	PH NO.	CCT BRKR SIZE	LOAD (W)	LOAD DESCRIPTION
EXIT SIGNS LTG - GND FL		20A	1	A	2	20A	2ND FLOOR LTG.
EXIT SIGNS LTG - GND FL		20A	3	B	4	20A	3RD FLOOR LTG.
		20A	5	C	6	20A	SPARE
		20A	7	A	8	20A	SPARE
		15A	9	B	10	15A	
		15A	11	C	12	15A	SPARE
SPARE		15A	13	A	14	15A	SPARE
SPARE		15A	15	B	16	15A	SPARE
SPARE		15A	17	C	18	15A	SPARE
SPARE		15A	19	A	20	15A	SPARE
SPARE		15A	21	B	22	15A	SPARE
SPARE		15A	23	C	24	15A	SPARE
SPARE		15A	25	A	26	15A	SPARE
SPARE		15A	27	B	28	15A	SPARE
SPARE		15A	29	C	30	15A	SPARE

P-2E2	VOLTS: 120/208V	TYPE:	<input type="checkbox"/> FLUSH
	PHASE: 3Ø	LOAD(KW):	<input checked="" type="checkbox"/> SURFACE
	WIRE: 4W	LOAD(AMPS):	<input checked="" type="checkbox"/> SPRINKLERPROOF
	MAINS: 125A	LOCATION: 2ND FLOOR	<input type="checkbox"/> MAIN BREAKER
	I.C.(KA): 25ka	FED FROM: DP-6E1	<input type="checkbox"/> SPD

- NOTES:
1. PROVIDE DOUBLE SIZED NEUTRAL BUS.
 2. THE MAINS SHALL BE COPPER AND SUITABLE FOR BOLT-ON BREAKERS.
 3. COMPLETE CIRCUIT DIRECTORY WITH TYPED LEGEND SHOWING LOCATION OF EACH CIRCUIT.
 4. CIRCUIT NUMBER FOR GROUPING PURPOSE ONLY.
 5. PANEL SHALL BE WITH ISOLATED GROUND BAR.
 6. ** DENOTES LOCK TYPE BREAKER

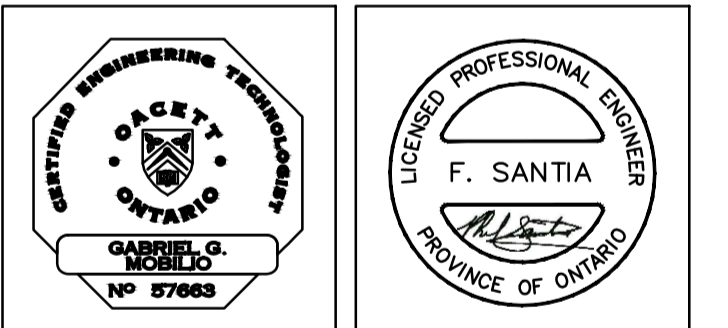
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Lumen CONSULTING ENGINEERS
LIGHTING - ELECTRICAL
595 CITYVIEW BLVD, SUITE 204/205
VAUGHAN, ONTARIO, CANADA L4H 3M7
Tel: (905) 417-6861 Fax: (905) 417-6862
www.e-lumen.ca



Project Title
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING
20 SOUTH STREET,
TRENTON, ON
City of Quinte West

Sheet Title
ELECTRICAL PANEL SCHEDULES

Drawn DD/MU	Checked BV
Date June 2023	Scale N.T.S.
Project Number 23-019	Sheet Number E-900C

LUMINAIRE SCHEDULE

TYPE	LAMP	DESCRIPTION	MANUFACTURER	ALTERNATE
LS1	25W, 90CR1,3500°K, 50,000HRS,120V	SITE POLE MOUNTED LUMINAIRE C/W GLASS DIFFUSER, 16" HIGH, 5"W ALUMINUM POLE AND TO OPERATE AT 120V C/W ALL MOUNTING ACCESSORIES	CAT: P15 SERIES GARDCO	
LC1	15W, 90CR1,3500°K, 50,000HRS,120V	4" DIAMETER RECESSED MOUNTED LUMINAIRE DOWNLIGHT AT 120V C/W 0-10V DIMMING DRIVER AND C/W ALL MOUNTING ACCESSORIES, LENS AND GASKETTED	PRESCOLITE CAT # LBRP-RD SERIES(SL MODULE)	
S1	2 X 7W LED A19 LAMP	SURFACE MOUNTED LUMINAIRE IN CORRIDORS, BEDROOM, ETC. TO OPERATE AT 120V. 8" DIAMETER C/W GLASS DIFFUSER.	CAT: AFX SERIES ROUND OMNILLUMEN	
S2	3 X 9W LED A19 LAMP	SURFACE MOUNTED LUMINAIRE IN KITCHEN AREA TO OPERATE AT 120V. 15" DIAMETER C/W GLASS DIFFUSER.	CAT: AFX SERIES ROUND OMNILLUMEN	
S3	2 X 7W LED A19 LAMP	SURFACE MOUNTED LUMINAIRE IN KITCHEN AREA TO OPERATE AT 120V. 12" DIAMETER C/W GLASS DIFFUSER.	CAT: AFX SERIES ROUND OMNILLUMEN	
S4	23W LED	BATH AND VANITY WALL SCONCE LED LIGHT TO OPERATE AT 120V. SURFACE MOUNTED C/W GLASS DIFFUSER & ALL MOUNTING ACCESSORIES. 36" LENGHT	CAT: CADET BFP LED TLJ	
SS	12W LED, 120V	4" DIAMETER RECESSED SHOWER LUMINAIRE LED LIGHT TO OPERATE AT 120V C/W GLASS COVER & GASKET	PEERLESS CAT #	
S6	1 LED LAMP, 9W	UTILITY SURFACE MOUNTED GLOBE LUMINAIRE C/W BRACKET, GUARD & GLASS DIFFUSER.	PEERLESS CAT #	
LA1	10W, 90CR1,3500°K, 50,000HRS,120V	4" LENGTH, 1"W, 0.5"H RECESSED MOUNTED T-BAR LUMINAIRE DOWNLIGHT AT 120V C/W 0-10V DIMMING DRIVER AND C/W ALL MOUNTING ACCESSORIES	PEERLESS CAT # LBRP-RD SERIES(ML MODULE)	
LC1	25W, 90CR1,3500°K, 50,000HRS,120V	4" DIAMETER RECESSED MOUNTED LUMINAIRE DOWNLIGHT AT 120V C/W 0-10V DIMMING DRIVER AND C/W ALL MOUNTING ACCESSORIES	PRESCOLITE CAT # LBRP-RD SERIES(ML MODULE)	
LC2	30W, 90CR1,3500°K, 50,000HRS,120V	4" DIAMETER RECESSED MOUNTED LUMINAIRE DOWNLIGHT AT 120V C/W 0-10V DIMMING DRIVER AND C/W ALL MOUNTING ACCESSORIES	PRESCOLITE CAT # ARC LUX SERIES	
WA1	15W, 90CR1,3500°K, 50,000HRS,120V	WALL MOUNTED SCONCE LUMINAIRE, TYPE III AT 120V C/W 0-10V DIMMING DRIVER AND C/W ALL MOUNTING ACCESSORIES	TERON LIGHTING CAT # CADDY SERIES	
WA2	15W, 90CR1,3500°K, 50,000HRS,120V	WALL MOUNTED SCONCE LUMINAIRE, TYPE II AT 120V C/W 0-10V DIMMING DRIVER AND C/W ALL MOUNTING ACCESSORIES	TERON LIGHTING CAT # CADDY SERIES	
LP1	30W, 90CR1,4000°K, 50,000HRS,120V	4" LENGTH, NARROW STRIP LIGHT SURFACE MOUNTED LUMINAIRE C/W LENS AT 120V C/W 0-10V DIMMING DRIVER AND C/W ALL MOUNTING ACCESSORIES	COLUMBIA CAT # LCL SERIES	
LP2	40W, 90CR1,4000°K, 50,000HRS,120V	4" LENGTH, NARROW STRIP LIGHT SURFACE MOUNTED LUMINAIRE C/W LENS AT 120V C/W 0-10V DIMMING DRIVER AND C/W ALL MOUNTING ACCESSORIES	COLUMBIA CAT # LCL SERIES	
LT1	15 W LED, 90CR1, 400°K, 50,000 HRS, 120V	WALL MOUNTED ELEVATOR PIT LED LIGHTING C/W GLOBE GLASS AND GUARD 120V	PEERLESS CAT #	
XC	COMBINATION EXIT SIGN/EMERGENCY BATTERY UNIT C/W DOUBLE LED 7W MR16 HEADS AND ULTRA BRIGHT LED EXIT SIGN	GREEN PICTOGRAM EXIT COMBO C/W MR-16 LED HEADS IN ALUMINUM HOUSING TO OPERATE AT 120V/347V.	STANPRO CAT. #PRMXL SERIES	
XT	ULTRA BRIGHT LED EXIT SIGN, ARROW(S) INDICATE DIRECTION OF EXIT (EGRESS)TRAVEL	GREEN PICTOGRAM EXIT SIGN, ALUMINUM HOUSING, DIRECTIONAL FACES AS PER DRAWINGS FLOOR PLAN, UNIVERSAL MOUNTING. VOLTAGE TO MATCH EXISTING BASE BUILDING VOLTAGE. ELECTRICAL CONTRACTOR TO VERIFY. SINGLE, DOUBLE & UNIVERSAL FACES. 120/347V. SELF POWERED(120MIN).	STANPRO CAT. #RMXL SERIES	
EM1	REMOTE EMERGENCY BATTERY 1 HEAD	LED REMOTE EMERGENCY HEADS. SINGLE AND DOUBLE HEADS AS NOTED ON DRAWINGS.	STANPRO CAT. #RMXL SERIES	
EM2	REMOTE EMERGENCY BATTERY 2 HEADS			
BU	EMERGENCY BATTERY UNITS (BU1, BU2)	EMERGENCY LIGHTING BATTERY UNIT, 24 VOLT BATTERY WITH PULSE SWITCHING CHARGER, TOP MOUNTED HEADS, CONSTRUCTED WITH 20 GAUGE STEEL CABINET, WHITE FINISH TO OPERATE AT 120/347V. 360W CAPACITY.	STANPRO CAT. #SL SERIES	

1 LUMINARIES SCHEDULE
E-901 SCALE: N.T.S.

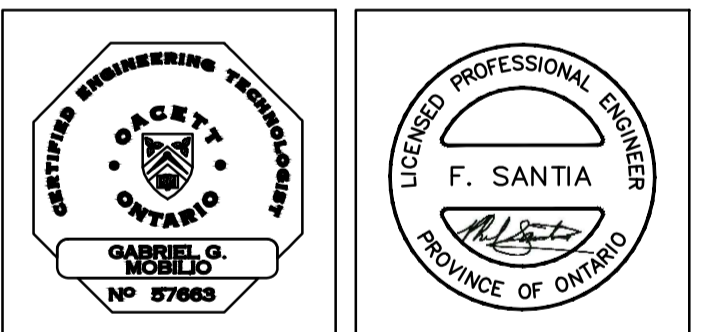
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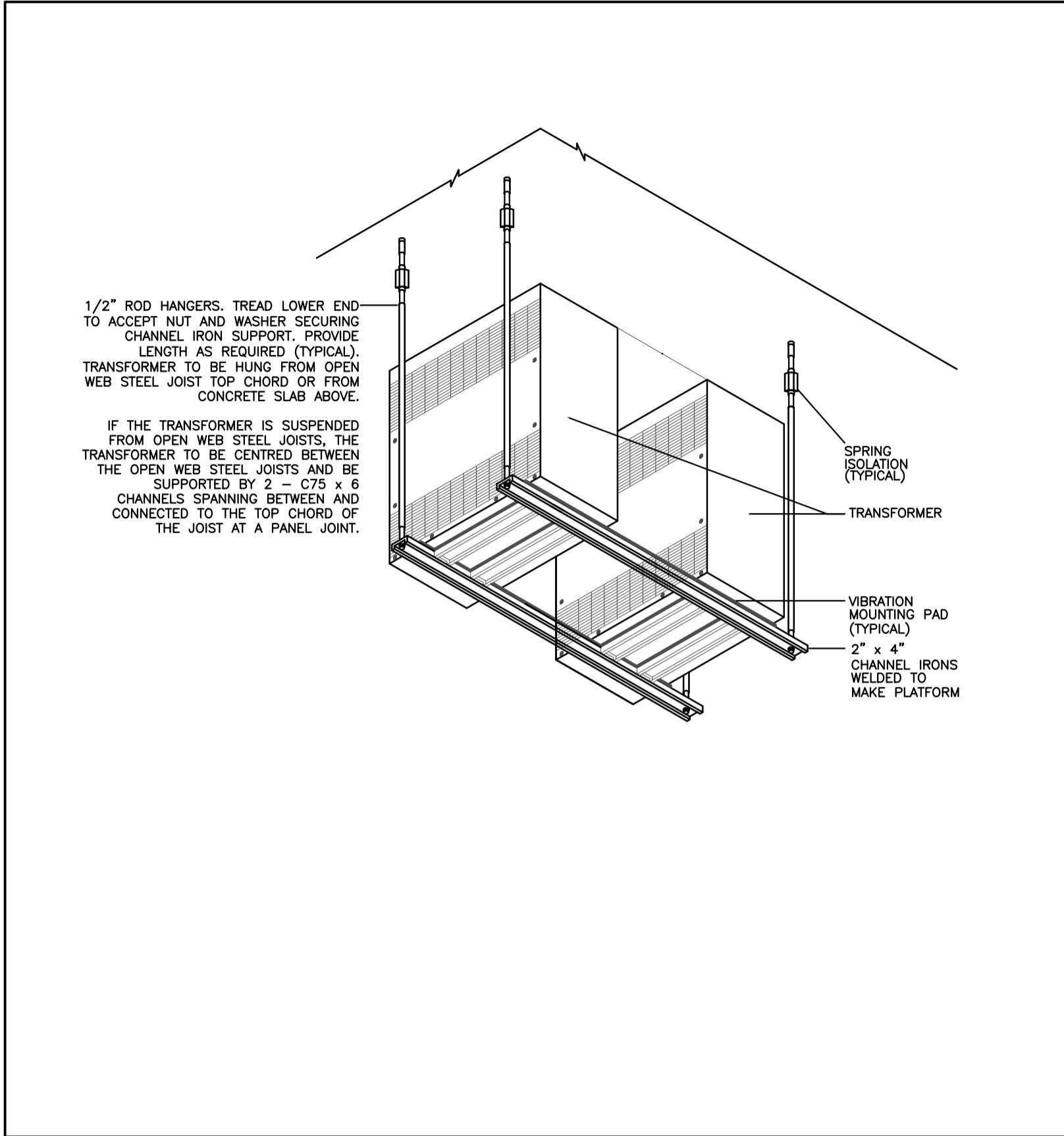
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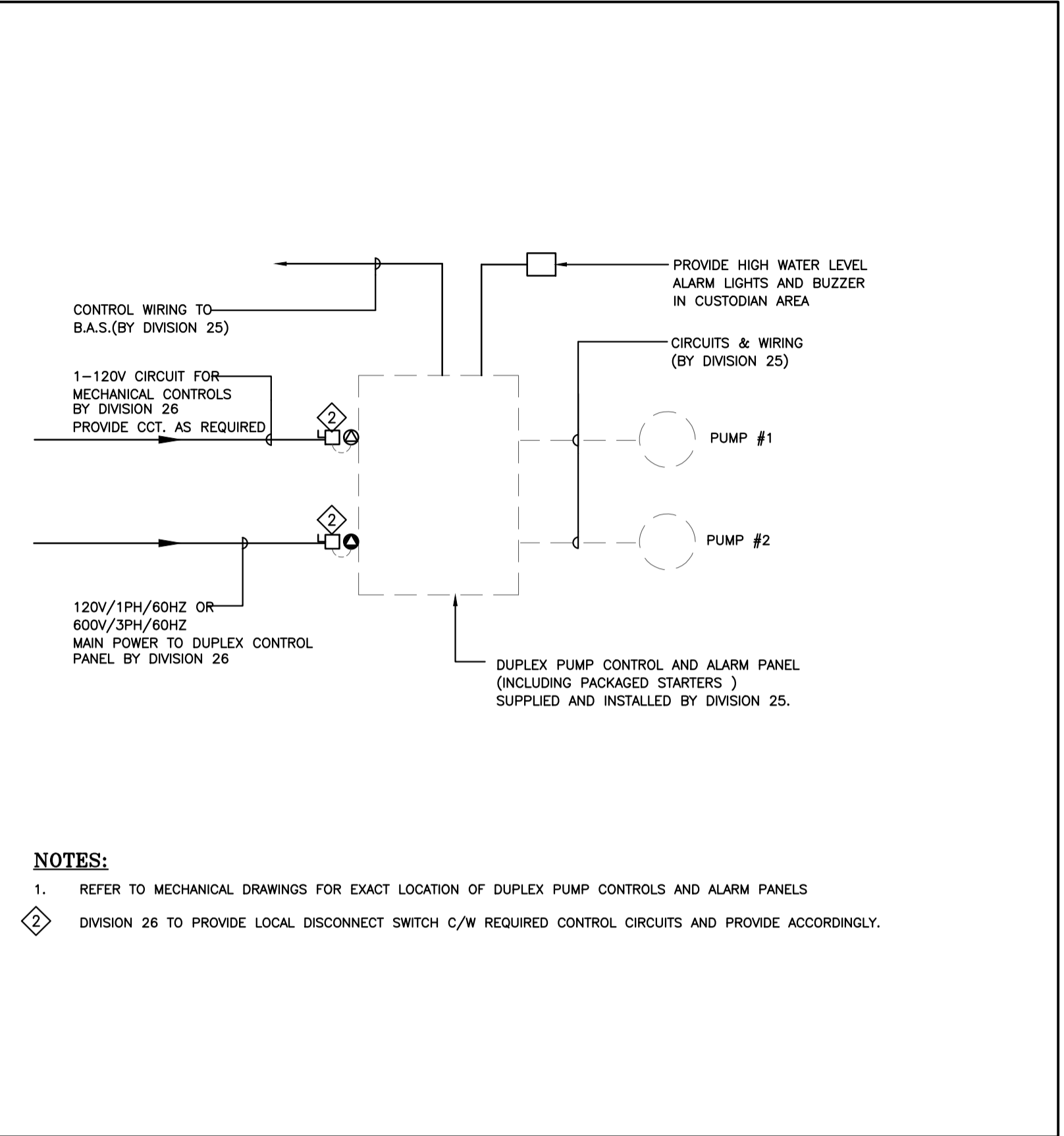
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**32 UNIT AFFORDABLE
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20 SOUTH STREET,
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City of Quinte West

Sheet Title
**ELECTRICAL LUMINAIRES
DETAILS**

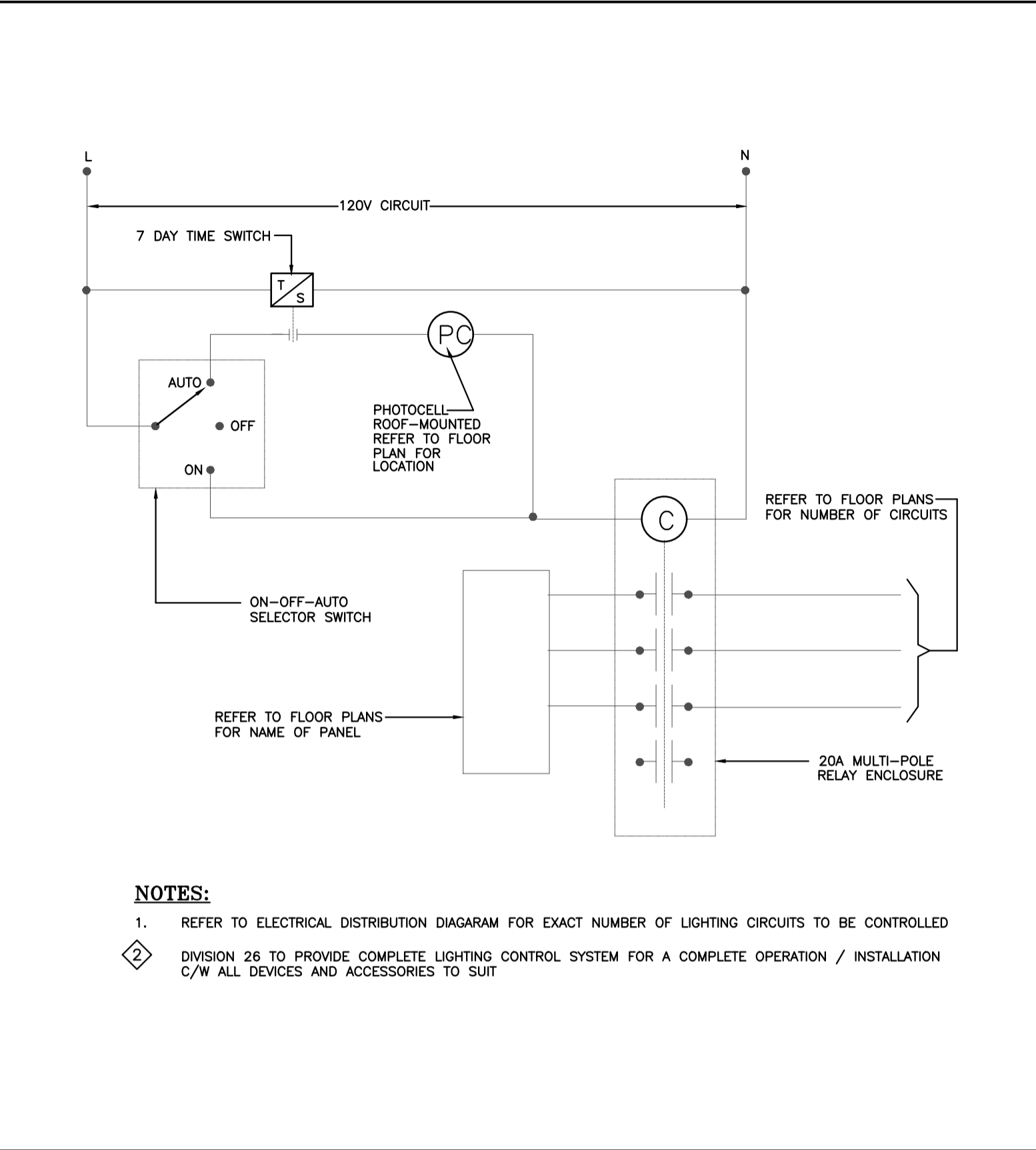
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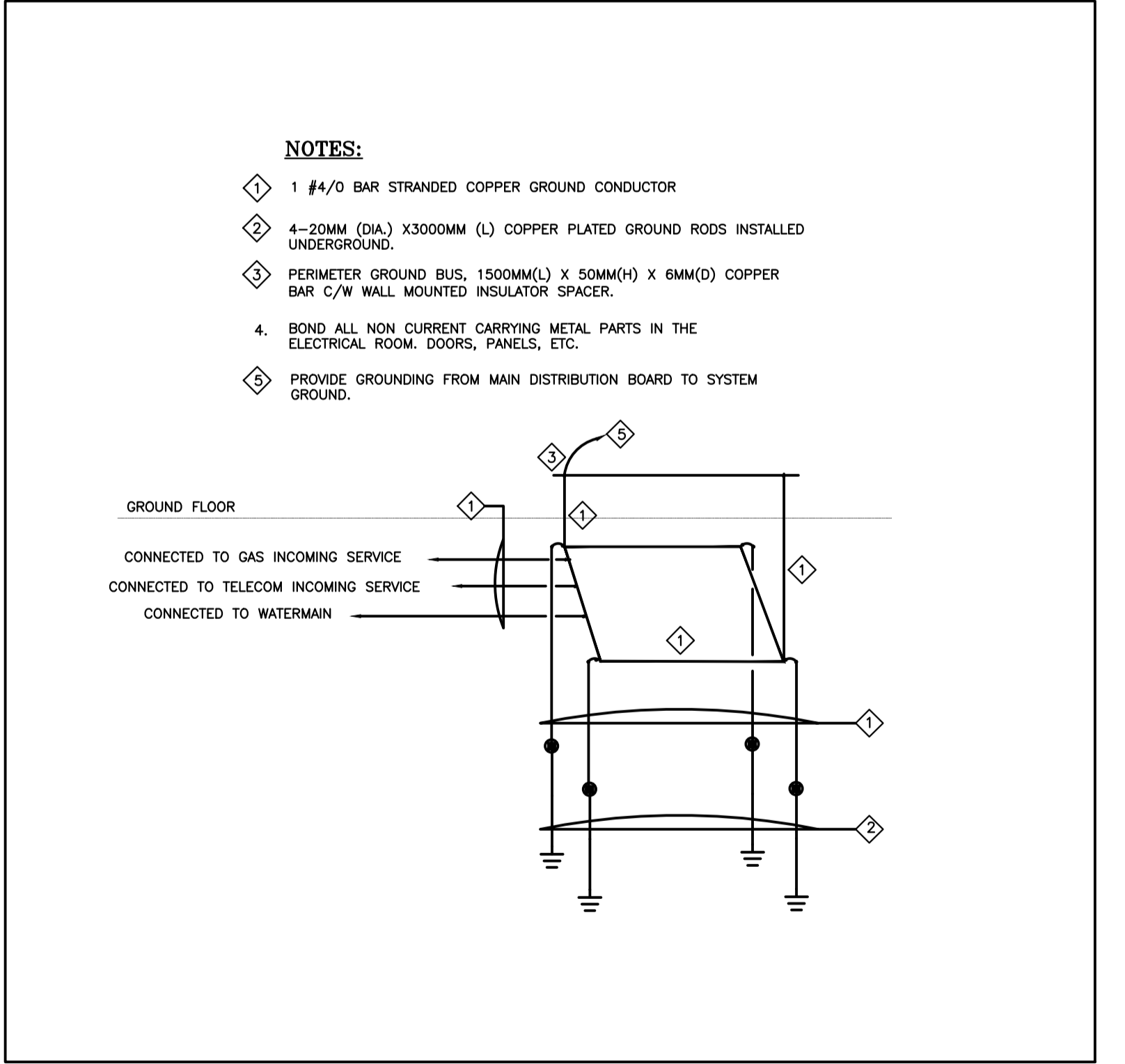
1 TRANSFORMER MOUNTING DETAIL
E-902 SCALE: N.T.S.



2 POWER WIRING SCHEMATIC FOR DUPLEX PUMP SYSTEM
E-902 SCALE: N.T.S.



3 TYPICAL EXTERIOR LIGHTING CONTROL DIAGRAM
E-902 SCALE: 1:50



4 ELECTRICAL ROOM GROUNDING DETAIL
E-902 SCALE: N.T.S.

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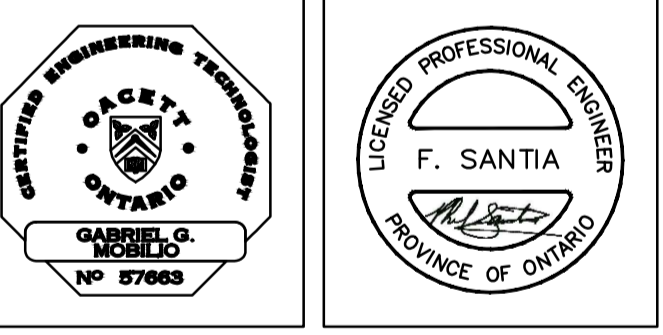
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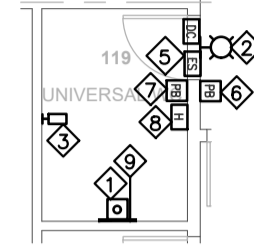
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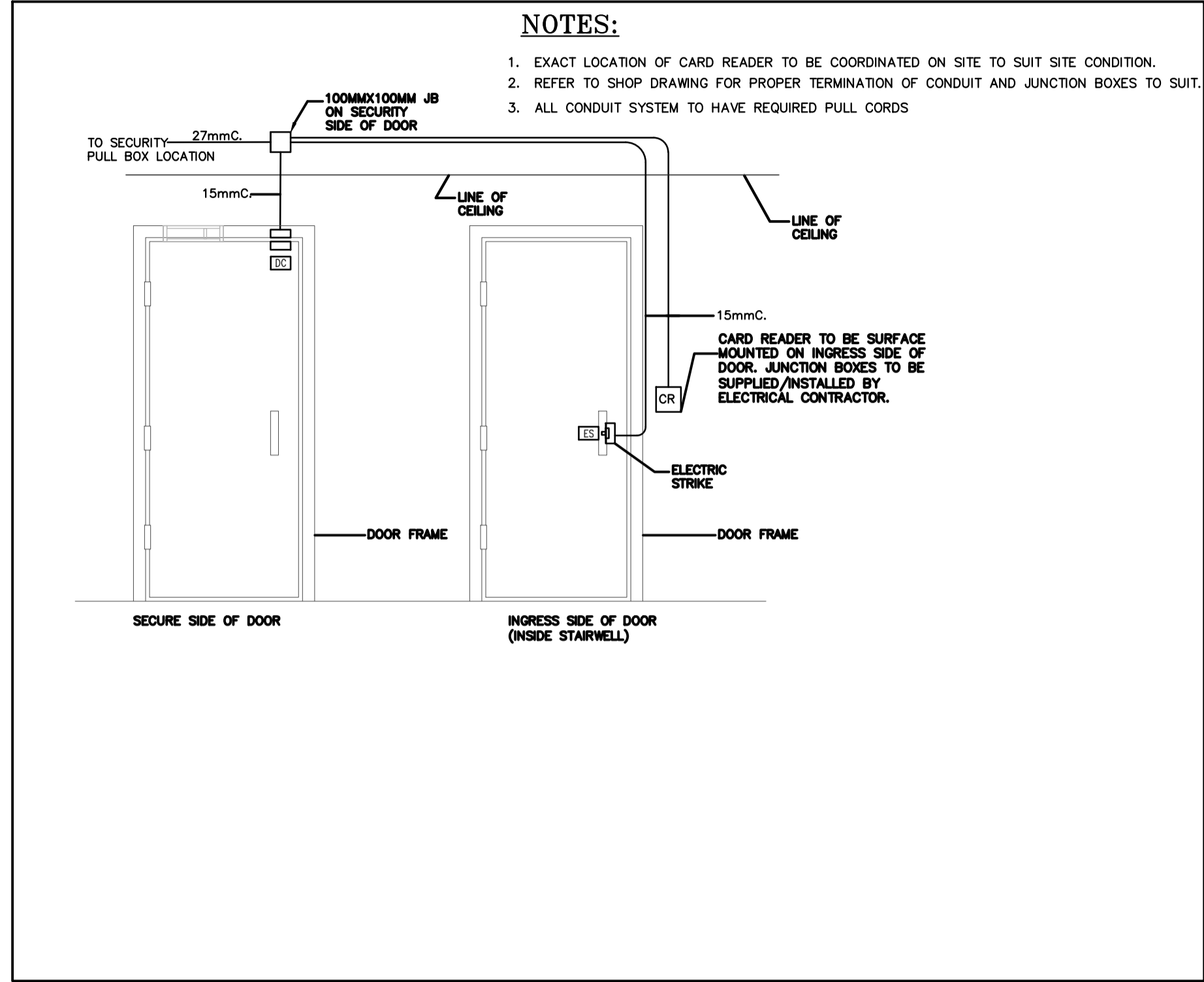
Sheet Title

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Drawn	DD/MU	Checked	BV
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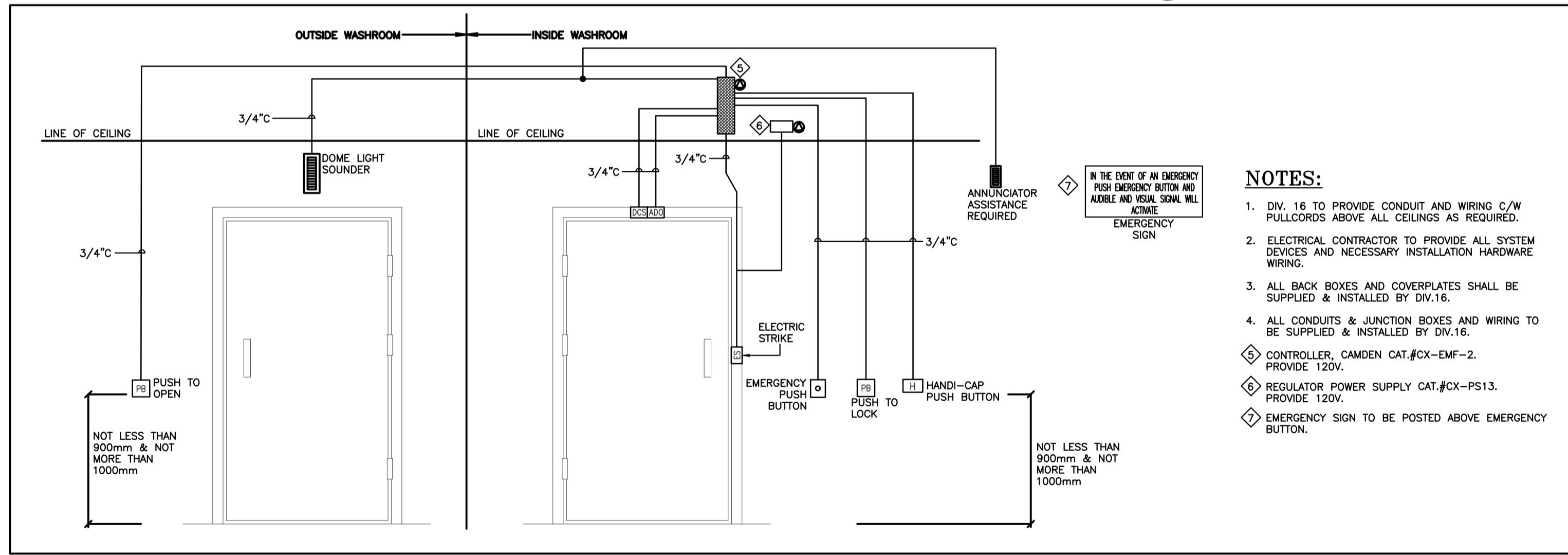


- NOTES:**
- 1. MUSHROOM PUSH BUTTON: "PRESS FOR EMERGENCY ASSISTANCE" REF 2012 OBC, DIV B, 3.8.3.12.(2)(a) CAMDEN DOOR CONTROLS CM-450R/12
 - 2. SINGLE GANG DOME LIGHT, WITH SOUNDER INSTALLED ABOVE DOOR REF 2012 OBC, DIV B, 3.8.3.12.(1)(b) CAMDEN DOOR CONTROLS CM-AF140S0
 - 3. SINGLE GANG ANNUNCIATOR, WITH SOUNDER "ASSISTANCE REQUESTED" REF 2012 OBC, DIV B, 3.8.3.12.(2)(a) CAMDEN DOOR CONTROLS CM-AF501S0
 - 4. POWERED DOOR CONTACT SWITCH PROVIDE 120 VOLT CIRCUIT. CAMDEN CAT.# CX-MDS.
 - 5. ELECTRIC STRIKE INTERLOCKED WITH POWERED DOOR OPERATOR AND EMERGENCY CALL SYSTEM. CAMDEN CAT.#CX-EU2018/2015. REF 2012 OBC, DIV B, 3.8.3.12.(1)(b).
 - 6. PUSH TO OPEN BUTTON. CAMDEN CAT.#CM-45/3GRSEI.
 - 7. PUSH TO LOCK BUTTON. CAMDEN CAT.#CM-45/8GRSEI.
 - 8. ALL-ACTIVE PUSH BUTTON. CAMDEN CAT.#CM-SERIES.
 - 9. SIGN ABOVE PUSH BUTTON: "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE" REF 2012 OBC, DIV B, 3.8.3.12.(2)(b) CAMDEN DOOR CONTROLS CM-SE21A.
 - 10. PROVIDE TRANSFORMER AND RECTIFIER TO SUIT. ENSURE ALL OTHER REQUIRED ASSOCIATED COMPONENTS ARE PROVIDED TO SUIT PRIOR TO INSTALLATION.



1 UNIVERSAL WASHROOM CALL SYSTEM DETAIL FLOOR PLAN
E-903 SCALE: 1:100

2 TYPICAL DOOR SECURITY DETAIL
E-903 SCALE: 1:50



3 UNIVERSAL WASHROOM CALL SYSTEM DETAIL
E-903 SCALE: N.T.S

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