# ELECTRICAL SPECIFICATIONS

1. COMPLY WITH ALL DIVISION 1 GENERAL CONDITIONS.

2. OBTAIN ALL APPROVALS FROM PUBLIC AUTHORITIES HAVING JURISDICTION, BEFORE COMMENCING WORK AND PAY ALL INSPECTION FEES AND ALL PERMITS. COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE APPLICABLE C.S.A. STANDARDS, CANADIAN BUILDING CODE, CANADIAN ELECTRICAL SAFETY CODE, APPLICABLE U.L.C. STANDARDS AND THE OWNERS' REQUIREMENTS. SUBMIT CERTIFICATE OF INSPECTION AND APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION. DO NOT REDUCE THE STANDARDS ESTABLISHED BY THE DRAWINGS AND SPECIFICATIONS BY APPLYING ANY OF THE CODES REFERRED TO HEREIN. PROVIDE ALL NECESSARY DUCTBANKS AS REQUIRED BY HYDRO IN ACCORDANCE WITH THEIR SPECIFICATIONS. SUBMIT ALL NECESSARY DRAWINGS TO HYDRO FOR THEIR APPROVAL.

3. PROVIDE PROOF OF PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE COVERAGE AND AMOUNT. SUBMIT WITH TENDER.

4. DRAWINGS – EXAMINE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS BEFORE PROCEEDING WITH THE WORK.

ANY DISCREPANCIES BETWEEN DRAWINGS AND/OR SPECIFICATIONS MUST BE REFERRED TO THE ARCHITECT BEFORE ANY AFFECTED WORK IS COMMENCED.

REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING LOCATIONS OF ALL LIGHT FIXTURES AND DEVICES.

5. ENSURE THAT ALL ELECTRICAL EQUIPMENT SUPPLIED BY OTHER TRADES IS SUITABLE FOR THE RESPECTIVE VOLTAGE.

CONFIRM POWER REQUIREMENTS OF ALL OWNER SUPPLIED EQUIPMENT.

6. ALL CUTTING AND PATCHING REQUIRED FOR THE WORK OF THIS DIVISION SHALL BE CARRIED OUT BY THIS DIVISION. NO CHASING BLOCKWORK WILL BE ALLOWED.

BE RESPONSIBLE AND PAY FOR ANY DAMAGE TO THE BUILDING INCURRED BY WORK OF THIS DIVISION.

7. SUBMIT 6 COPIES OF SHOP DRAWINGS FOR REVIEW AND RECORDS.

8. ALL MATERIALS USED THROUGHOUT SHALL BE NEW, OF BEST QUALITY C.S.A. APPROVED AND OF ONE MANUFACTURE. WHEREVER TRADE NAMES ARE NOT USED TO DESCRIBE MATERIALS, THESE MATERIALS SHALL BE OF BEST AVAILABLE QUALITY AND MANUFACTURE. OBTAIN AND PAY FOR SPECIAL HYDRO INSPECTION OF SPECIFIED NON-C.S.A. ELECTRICAL EQUIPMENT.

9. PROVIDE ALL CONDUIT, WIRING, BOXES, SWITCHES, OUTLETS, DEVICES, ETC., AS REQUIRED. MAKE FINAL CONNECTIONS TO VIBRATING EQUIPMENT WITH FLEXIBLE CONDUIT.

10. PROVIDE ALL HANGERS, INSERTS AND SUPPORTS OF APPROVED TYPES REQUIRED FOR THE WORK OF THIS DIVISION. PROVIDE CONDUIT FOR ALL SERVICES PENETRATING THE FLOOR SLAB. SEAL ALL PENETRATIONS THROUGH FLOOR SLABS WITH AN APPROVED NON-SHRINK, WATERPROOF AND FIREPROOF SEALANT APPROVED BY ARCHITECT.

11. ALL CONDUIT SHALL BE RIGID STEEL THICK WALLED OR EMT THINWALL WITH STEEL SET SCREW COUPLINGS AND CONNECTORS WITH INSULATED THROATS UNLESS OTHERWISE NOTED. EXPOSED CONDUITS AND WIREMOLD CHANNELS SHALL BE NEAT IN APPEARANCE, RUN PARALLEL TO BUILDING LINES AND CONCENTRIC RIGHT ANGLE BENDS ONLY SHALL BE USED.

12. ALL EMPTY CONDUITS SHALL BE COMPLETE WITH NYLON FISH WIRE.

13. ALL WIRING SHALL BE MINIMUM #12 GAUGE COPPER, EXCEPT AS OTHERWISE NOTED. ALL WIRING SHALL BE 600 VOLT TYPE RW90. BX CABLE MAY BE USED WHERE PERMITTED BY CODE IN CEILING SPACE FOR FINAL CONNECTION TO LIGHT FIXTURE AND FROM CEILING DISTRIBUTION BOXES DOWN PARTITIONS TO RECEPTACLES ONLY. MINIMUM SIZE WIRING FOR DC WIRING SHALL BE #10 GAUGE. MAXIMUM VOLTAGE DROP SHALL NOT EXCEED 2 PERCENT AT ALL FINAL OUTLET LOCATIONS.

14. PROVIDE SEPARATE GROUND WIRES WITH ALL FEEDERS AND CIRCUITS SIZED IN ACCORDANCE WITH APPLICABLE CODES AND HYDRO REQUIREMENTS. PROVIDE ALL REQUIRED BONDING AS REQUIRED BY CODE.

PROVIDE MAIN GROUND TO HYDRO APPROVAL.

MAIN ELECTRICAL ROOM GROUNDING SHALL CONSIST OF MINIMUM 4-3/4" DIAMETER, 10' LONG CU GROUNDING RODS INTERCONNECTED WITH 3/0 BARE COPPER CONDUCTOR. INTERCONNECT MAIN ELECTRICAL ROOM GROUNDING TO THE POWER TRANSFORMER GROUNDING, IF APPLICABLE, WITH 3/0 BARE COPPER CONDUCTOR. CONTRACTOR TO SUPPLY AND INSTALL CU GROUND BUS ON THE WALL AND PROVIDE THE FOLLOWING GROUNDING CONNECTIONS:

* 3/0 CU BARE TO MAIN BOARD OR SWITCH GROUNDING LUGS
* 3/0 CU BARE TO REBAR
* 3/0 CU BARE TO BUILDING STEEL
* 3/0 CU BARE TO MAIN GAS PIPE WITH GROUNDING BRIDGE ACROSS THE GAS METER
* 3/0 CU BARE TO WATER MAIN IF MADE OF METAL
* #6 CU INSULATED TO 12 POSITION GROUND BUS FOR TELEPHONE SERVICE. 12 POSITION GROUND BUS ON INSULATORS TO BE PROVIDED AND INSTALLED BY THIS CONTRACTOR

IN ADDITION, PROVIDE A 3/0 GROUND WIRE THROUGH-OUT BUILDING AT JOIST LEVEL TO TIE IN TENANT SERVICES AS MAY BE REQUIRED BY LOCAL AUTHORITY.

15. CO-ORDINATE WITH OTHER TRADES IN LAYING OUT OF THE WORK SO AS NOT TO CONFLICT WITH THE WORK OF OTHER TRADES. CARRY OUT WORK PROMPTLY WHICH MAY INTERFERE WITH THE WORK SCHEDULE OF OTHER TRADES.

16. MECHANICAL TRADES WIRING: PROVIDE ALL CONDUIT, WIRING, SPLITTERS, OUTLET BOXES AND DISCONNECT SWITCHES AS SHOWN. ALL MOTORS, STARTERS AND CONTROL WIRING PROVIDED UNDER DIVISION 15. INSTALL ALL STARTERS AND WIRE COMPLETE.

17. CLEARLY MARK ALL EXPOSED CONDUIT, PULL BOXES, JUNCTION BOXES, ETC., TO INDICATE THE NATURE OF THE SERVICE.

18. MEDGER ALL LIGHTING AND POWER CIRCUITS TO MEET CODES.

19. PROVIDE LAMACOID NAMEPLATES FOR ALL DISTRIBUTION EQUIPMENT INDICATING SOURCE OF POWER AND EQUIPMENT BEING FED. PROVIDE TYPEWRITTEN DIRECTORIES FOR ALL PANELS.

20. AFTER COMPLETION OF THE WORK, PROVIDE THE LANDLORD AND TENANT WITH A SET OF REPRODUCIBLE "AS-BUILT" RECORD DRAWINGS. INCORPORATE ALL CHANGES WITH RECOGNIZED DRAFTING PROCEDURES.

21. CLEAN AND TEST ALL EQUIPMENT BEFORE FINAL ACCEPTANCE IS GIVEN FOR THE WORK.

22. AFTER THE WORK IS COMPLETED, GIVE A WRITTEN GUARANTEE FOR ONE YEAR COVERING WORKMANSHIP AND MATERIALS. REPAIR OR REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY DEFECTS DUE TO WORKMANSHIP OR MATERIALS WHICH IN THE OWNER'S OPINION, ARE NOT DUE TO MISUSE OR NEGLECT.

23. TELEPHONE SYSTEM

SUPPLY AND INSTALL THE REQUIRED DUCTBANK, AN EMPTY RACEWAY SYSTEM COMPLETE WITH CONDUITS, PULLBOXES, PANELS, OUTLET BOXES, COVER PLATES, SUITABLE FOR THE INSTALLATION OF TELEPHONE CABLES AND TELEPHONE EQUIPMENT, BY THE TELEPHONE COMPANY. THE COMPLETE CONDUIT INSTALLATION SHALL MEET ALL TELEPHONE COMPANY REQUIREMENTS.

RACEWAYS SHALL BE RIGID, GALVANIZED STEEL CONDUIT WHERE EXPOSED TO MECHANICAL INJURY. IN ALL OTHER LOCATIONS, EMT MAY BE USED.

PVC DUCT SHALL BE USED FOR UNDERGROUND SERVICE ENTRANCE.

PROVIDE A 110 VOLT POWER OUTLET ADJACENT TO THE TELEPHONE EQUIPMENT LOCATION FOR TELEPHONE COMPANY'S STEP DOWN TRANSFORMER.

UNLESS OTHERWISE SHOWN, STEEL PULLBOXES SHALL BE INSTALLED EVERY 100 FEET OR LESS OF STRAIGHT CONDUIT RUN; EVERY 75 FEET OR LESS OF STRAIGHT CONDUIT RUN AND ONE 90 DEG. BEND OR EQUIVALENT; EVERY TWO 90 DEG. BENDS OR EQUIVALENT.

A #6 GROUND WIRE SHALL BE RUN FROM THE TELEPHONE SERVICE PANEL TO SERVICE GROUND TO PROVIDE A GROUND FOR THE TELEPHONE SYSTEM.

24. DISTRIBUTION: FEEDERS SHALL BE SIZED AS DETAILED. SUBSTITUTION OF FEEDERS EITHER IN MATERIAL OR ROUTING WILL NOT BE PERMITTED UNLESS ENGINEER'S WRITTEN APPROVAL IS OBTAINED. FEEDERS SHALL HAVE MAXIMUM VOLTAGE DROP OF 3% AT FULL LOAD AT THE PANELS SUPPLIED. ALL FEEDERS SHALL BE BALANCED UNDER FULL LOAD CONDITIONS TO WITHIN 5% BETWEEN PHASES. ALL PHASES AND NEUTRALS SHALL BE IDENTIFIED AND MAINTAINED IN THEIR CORRECT ORDER WHEN READING LEFT TO RIGHT THROUGHOUT THE BUILDING.

25. EACH PANEL BOARD SHALL BE COMPLETE WITH A DIRECTORY GIVING THE NUMBER AND DESCRIPTION OF EACH CIRCUIT CONTROLLED. THE DIRECTORIES SHALL BE CLEARLY TYPED, LEGIBLE AND OF AMPLE SIZE AND SHALL BE MOUNTED IN A METAL FRAME WITH A CLEAR PLASTIC COVER ON THE INSIDE OF THE DOOR. THE CIRCUIT BREAKERS SHALL BE CONNECTED TO THE PANEL BY BOLTED CONNECTIONS. ALL BUS BARS, LUGS AND BREAKER TERMINALS SHALL BE SILVER PLATED AT CONNECTION POINTS. THE INTERRUPTING CAPACITY OF EACH BOARD SHALL BE DETERMINED BY THE CO-ORDINATION STUDY OR AS PER DRAWINGS, MINIMUM 10 KA FOR 208 VOLT PANELS AND 14 KA FOR 347/600 VOLT PANELS. ALLOW TO PROVIDE A COORDINATION AND SHORT CIRCUIT STUDY WITH THE SHOP DRAWINGS. OBTAIN DETAILS FROM SITE HV CONTRACTOR TO INCLUDE IN STUDIES.

ALL TWO OR THREE POLE BREAKERS SHALL OPERATE WITH A COMMON TRIP AND WITH A SINGLE HANDLE. TWO POLE CIRCUIT BREAKERS CONSISTING OF TWO SINGLE POLE BREAKERS WITH A TIE HANDLE, TWIN BREAKERS AND SERIES RATED BREAKERS WILL NOT BE ACCEPTED. ALL PANELBOARDS SHALL BE SPRINKLERPROOFED AS REQUIRED TO MEET LOCAL AND HYDRO CODES. ALL PANELS SHALL BE C/W LOCKABLE DOOR.

26. COVER PLATES:

COVER PLATES FOR RECEPTACLES, SWITCHES, PILOT LIGHTS, TELEPHONE OUTLETS AND OTHER DEVICES REQUIRING COVER PLATES FOR FLUSH MOUNTED BOXES SHALL BE METAL, STAINLESS STEEL #18-8,TYPE 302.

WEATHERPROOF COVER PLATES SHALL BE DIECAST CORROSION RESISTANT ALUMINUM TYPE WITH TWO SEPARATE LIDS FOR DUPLEX RECEPTACLES SUITABLE FOR MOUNTING ON F.S. TYPE BOXES. ALL WEATHERPROOF COVER PLATES SHALL HAVE RUBBER OR NEOPRENE GASKETS.

PLATES FOR SURFACE MOUNTED CAST BOXES SHALL BE GALVANIZED FORMED STEEL TYPE.

COVER PLATES FOR FLUSH MOUNTED EQUIPMENT SHALL BE SUPPLIED OF QUALITY AND PERFORMANCE SPECIFIED BY THE MANUFACTURER OF THE EQUIPMENT.

COVER PLATES SHALL NOT CARRY MANUFACTURER'S NAME.

COVER PLATES OF QUALITY SPECIFIED SHALL BE PASS & SEYMOUR, BRYANT LEVITON, SMITH & STONE OR HARVEY HUBBELL.

27. LIGHT SWITCHES:

SWITCHES SHALL BE, UNLESS OTHERWISE INDICATED, BRYANT QUIET TYPE WITH WHITE SPECIFICATION GRADE FOR 120V AND HEAVY DUTY GRADE FOR 347V.

LIGHT SWITCHES OF QUALITY AS MANUFACTURED BY BRYANT, P & S, ARROW HART, LEVITON AND HUBBELL SHALL BE CONSIDERED AS ACCEPTABLE AS SPECIFIED ALTERNATES.

DIMMERS SHALL BE LUTRON SPECIFICATION GRADE OR APPROVED ALTERNATE.

28. RECEPTACLES:

RECEPTACLES SHALL BE, UNLESS OTHERWISE INDICATED, U GROUND TYPE, WHITE SCREW TERMINAL TYPE.

RECEPTACLES SHALL BE SPECIFICATION GRADE.

29. AUTOMATIC CONTROL OF EXTERIOR LIGHTS.

CONTACTORS, PHOTO-ELECTRIC CONTROLS AND TIME SWITCHES SHALL BE USED TO CONTROL THE EXTERIOR LIGHTS.

IF THE PHOTOCELL IS NOT INDICATED ON THE DRAWINGS, OBTAIN THE LOCATION FROM THE CONSULTANT.

THE PHOTO-ELECTRIC CELL AND TIME CLOCKS SHALL BE WIRED SO AS TO CONTROL A MAGNETIC CONTACTOR. EACH CONTACTOR SHALL HAVE AN "ON-OFF-AUTO" SWITCH TO PERMIT MANUAL OPERATION OF THE INDIVIDUAL CONTACTOR. CONTACTORS TO BE MINIMUM 20 AMP HID LIGHTING DUTY. TIME CLOCKS TO BE DIGITAL WITH 96 HOUR SPRING CARRYOVER.

CONTACTORS SHALL HAVE LAMACOID NAMEPLATES INDICATING THAT CONTROL CIRCUIT IS SUPPLIED FROM A DIFFERENT SOURCE.

30. SERVICE ENTRANCE BOARD

THE SERVICE ENTRANCE BOARD SHALL CONSIST OF A COMPLETELY METAL ENCLOSED FREE-STANDING STRUCTURE CONSISTING OF A MAIN SWITCH COMPARTMENT, HYDRO METERING AS REQUIRED, METERING PANEL DISTRIBUTION SECTIONS. DETAILS OF MAIN INCOMING 600V SERVICE TO BE VERIFIED WITH HYDRO.

BUSWORK SHALL BE BRACED TO WITHSTAND AVAILABLE SHORT CIRCUIT ON THE SYSTEM AND BREAKERS AND FUSES SHALL HAVE ADEQUATE INTERRUPTING CAPACITY AND SHALL BE FULLY CO-ORDINATED WITH OTHER EQUIPMENT ON THE LOAD AND LINE SIDE.

THE MAIN SWITCH COMPARTMENT SHALL CONTAIN BREAKER OF TYPE, FRAME AND SIZE OR FUSED DISCONNECT SWITCH WITH FUSES OF TYPE AND SIZE AS INDICATED. THE MAIN SWITCH COMPARTMENT SHALL HAVE DOOR WITH HINGE AND THE SWITCH HANDLE SHALL PROTRUDE THROUGH AN OPENING IN THE DOOR. THE DOOR SHALL HAVE PROVISIONS FOR PADLOCKING.

MAIN SWITCH OR BREAKER SHALL BE EQUIPPED WITH GROUND FAULT RELAY AND ALL ASSOCIATED EQUIPMENT.

THE CURRENT TRANSFORMER COMPARTMENT WHERE REQUIRED SHALL HAVE A REMOVABLE STEEL MOUNTING PLATE AND SHALL BE EQUIPPED WITH ALL HARDWARE AND BUS DUCT TO RECEIVE THE LOCAL UTILITIES CURRENT AND POTENTIAL TRANSFORMERS. CURRENT TRANSFORMERS SHALL BE OBTAINED FROM THE UTILITY AND INSTALLED IN THE COMPARTMENT BY THE SERVICE ENTRANCE BOARD MANUFACTURER OR AS PER UTILITIES STANDARD REQUIREMENTS.

THE ENTIRE PANEL, BUSWORK AND CONNECTIONS SHALL BE TO THE UTILITIES APPROVAL. OBTAIN THEIR REQUIREMENTS PRIOR TO INSTALLATION.

SWITCHBOARD SHALL BE SPRINKLERPROOFED AS REQUIRED TO MEET LOCAL AND HYDRO CODES. PROVIDE A LOCKABLE HINGED FUSE CABINET IN EACH ELECTRICAL ROOM. PROVIDE A MINIMUM OF 3 SPARE FUSES OF EACH SIZED USED. PROVIDE AN INVENTORY MOUNTED ON THE INSIDE OF THE CABINET.

**PROVIDE A 2" HOUSEKEEPING PAD.**

31. DRY TYPE DISTRIBUTION TRANSFORMERS SHALL BE INDOOR AIR COOLED TYPE RATED THREE PHASE 60 CYCLE, OF KVA RATING SHOWN ON THE DRAWINGS, 600-208Y/120 VOLTS, 1.2 KV CLASS, AND CAPABLE OF WITHSTANDING A 10 KV BASIC IMPULSE LEVEL (BIL). THEY SHALL HAVE STANDARD PRIMARY TAPS. THE TRANSFORMER SHALL BE DESIGNED WITH A CLASS B OR H INSULATION SYSTEM TO MEET REQUIREMENT OF CSA 802.

THE SOUND LEVEL IN DECIBELS SHALL BE IN ACCORDANCE WITH NEMA TR CURRENT STANDARDS. THE TRANSFORMER SHALL BE EQUIPPED WITH TERMINAL BOARDS, TAP CHANGING LINKS, SUITABLE SOLDERLESS CONNECTORS AND SHALL HAVE A VENTILATED CODE GAUGE STEEL ENCLOSURE COMPLETE WITH HINGED REMOVABLE EXPANDED METAL SIDE PANELS AND MOUNTING BRACKETS FOR FLOOR OR WALL MOUNTING AS SHOWN. MOUNT ALL TRANSFORMERS 75KVA AND UNDER AT HIGH LEVEL IN LOCATION SHOWN UNLESS OTHERWISE NOTED.

THE COMPLETED ASSEMBLY SHALL BE PAINTED WITH A PRIMER COAT AND A FINISH COAT OF ASA #61 GRAY. THE TRANSFORMER SHALL CONFORM TO CSA – C9, NEMA TR1 AND CEMA L2 CURRENT STANDARDS EXCEPT WHERE NOTED AND SHALL BE APPROVED TO CSA CODE PART 2 SPECIFICATION C22.2 NO. 47 WHERE APPLICABLE.

TRANSFORMERS SHALL BE SPRINKLERPROOFED AS REQUIRED TO MEET LOCAL AND HYDRO CODES.

32. METERING CABINETS SHALL BE OF SIZE SHOWN ON DRAWING OR AS REQUIRED WITH REMOVABLE STEEL METER MOUNTING PLATE, TWO DOORS AND SEALING HASPS TO UTILITY APPROVAL.

THE CABINET SHALL BE MOUNTED ON THE WALL AS SHOWN ON THE DRAWINGS AND TO THE SATISFACTION OF THE LOCAL UTILITY.

33. CONFIRM ALL LOCATIONS AND OUTLETS PRIOR TO INSTALLATION. ALLOW TO RELOCATE ANY OUTLET WITHIN 10' OF SPECIFIED LOCATION, PRIOR TO INSTALLATION.

34. PROVIDE ALL CONCRETE WORK REQUIRED FOR ELECTRICAL WORK IN ACCORDANCE WITH ARCHITECTURAL DIVISION OF SPECIFICATION.

35. SUPPLY AND INSTALL ALL UNDERGROUND DUCTS WHERE INDICATED. THESE SHALL BE INSPECTED AND APPROVED BY ALL LOCAL AUTHORITIES AS REQUIRED. AFTER COMPLETION OF INSTALLATION DUCTS SHALL BE CLEANED AND ENDS PLUGGED WITH DUCT PLUGS. ALL EXCAVATION AND BACKFILLING SHALL BE CARRIED OUT IN ACCORDANCE WITH ARCHITECTURAL DIVISION OF SPECIFICATION.

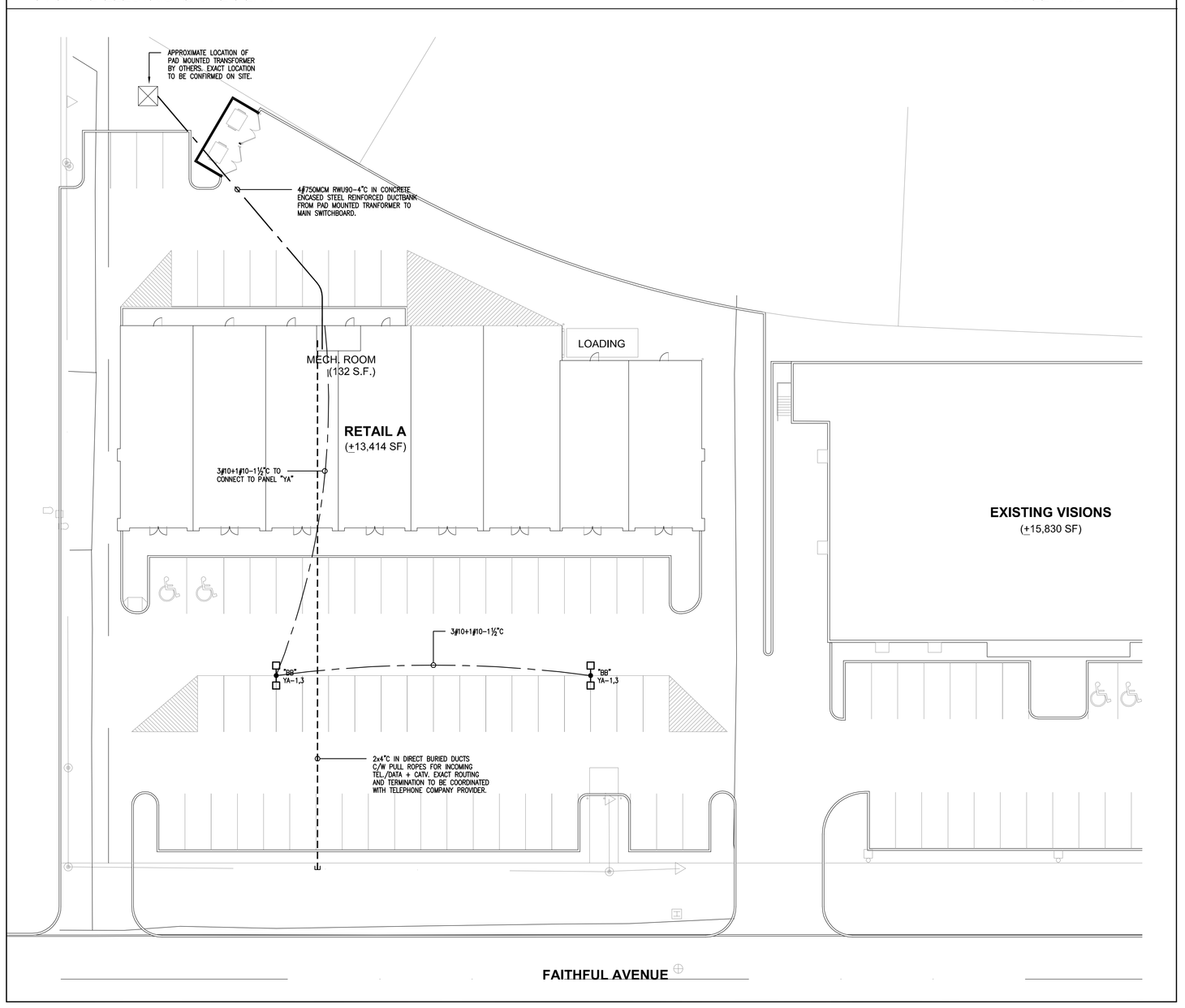
DUCTS TO BE PVC TYPE II CSA APPROVED AND TO BE SLOPED FROM BUILDING TO STREET.

36. ALLOW TO PROVIDE A COORDINATION AND SHORT CIRCUIT STUDY WITH THE SHOP DRAWINGS FOR ALL EQUIPMENT.

37. ALL FLUORESCENT FIXTURES TO BE SUPPLIED SHALL BE COMPLETE WITH IN LINE DISCONNECT SWITCHES TO MEET CURRENT CODE REQUIREMENT.

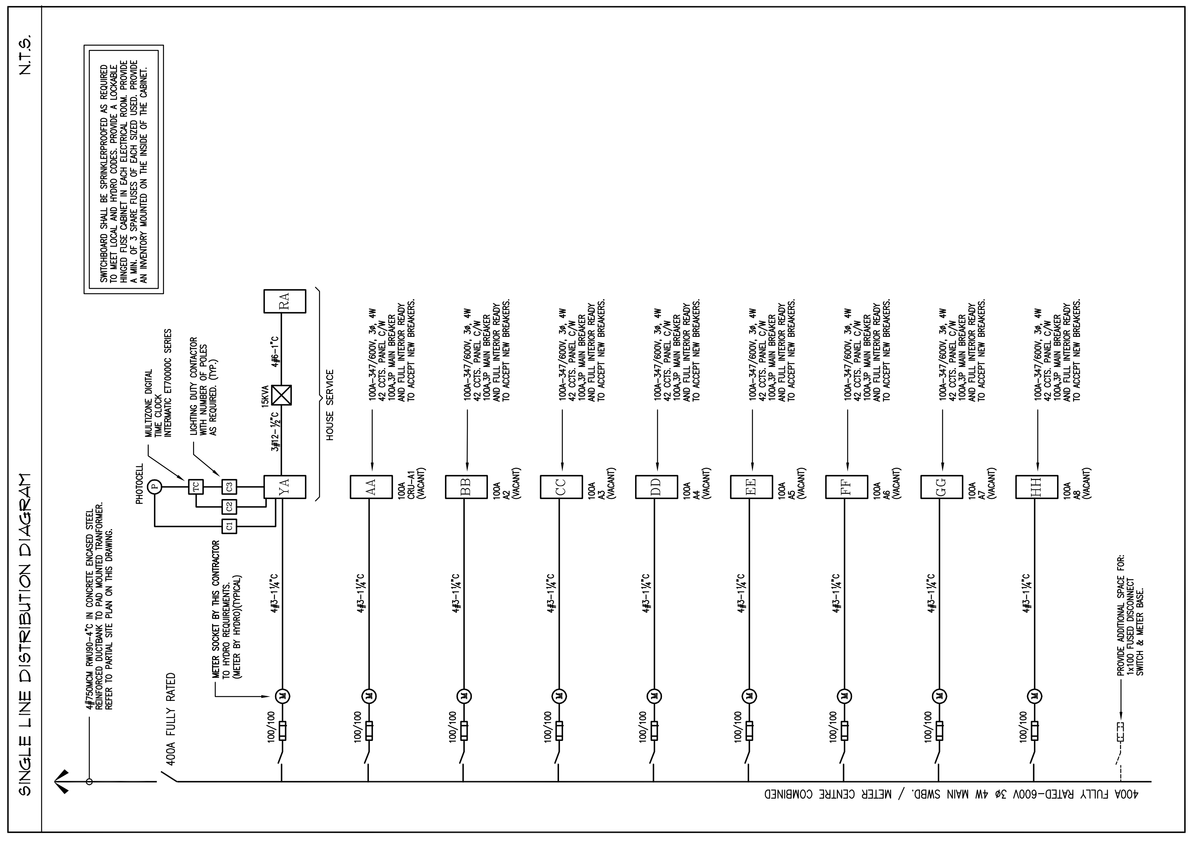
# PARTIAL ELECTRICAL SITE PLAN

SCALE: 1/20"=1'-0"




# SINGLE LINE DISTRIBUTION DIAGRAM

N.T.S.




# LEGEND

| | |
|---|---|
| | LIGHT FIXTURE, TYPE AS SHOWN |
| $ | LIGHT SWITCH |
| | DUPLEX RECEPTACLE IG=ISOLATED GROUND. |
| | ELECTRICAL OUTLET (DIRECT CONNECTION). |
| | DISCONNECT SWITCH |
| | MECHANICAL EQUIPMENT. |
| ▼ | TELEPHONE OUTLET |
| A | AC UNIT TYPE AS SHOWN. |
| | ELECTRIC HEATER AS NOTED. |
| | EMERGENCY BATTERY UNIT SHALL BE PLUG-IN TYPE (120VAC-12VDC) (72W CAPACITY OR UNLESS OTHERWISE NOTED) LUMACELL "RO-25" SERIES OR EQUAL. |
| | EMERGENCY LIGHTING REMOTE HEADS, DOUBLE HEADS C/W 12W-12VDC QUARTZ HALOGEN LAMP. LUMACELL CAT.# MQT OR MQ2 (SINGLE OR DOUBLE HEAD) OR EQUAL (TYPICAL). |

# NOTES

1. ALL TENANT SERVICE SIZES AND LOCATIONS ARE TO BE CONFIRMED PRIOR TO INSTALLATION
2. ALL EMERGENCY LIGHTING SYSTEM INSTALLATIONS UNLESS NOTED OTHERWISE, SHALL BE BY INDIVIDUAL TENANT TO MEET CODE REQUIREMENTS.
3. ALL DISTRIBUTION AND PANEL BOARDS TO BE SPRINKLER PROOF.
4. NO TENANT SERVICES ARE TO BE INSTALLED WITHOUT PRIOR APPROVAL OF OWNER.
5. ALL DUCTS AND TENANT CONDUITS TO BE C/W PULL ROPES.
6. ALL SERVICES TO BE RUN OVERHEAD, UNLESS NOTED OTHERWISE.
7. NO LIGHTING TO BE HUNG DIRECTLY FROM ROOF DECK. PROVIDE UNISTRUT SUPPORTS TO STRUCTURAL ENGINEERING REQUIREMENTS AND APPROVAL.

# LIGHT FIXTURE SCHEDULE

| | |
|---|---|
| BB | LUMINARE/POLE ASSEMBLY CONSISTING OF A TWO (2) 400 WATT PULSE START METAL HALIDE LUMINARES WITH A TYPE V DISTRIBUTION PATTERN, 347V OUTDOOR USE BALLAST ON A STRAIGHT ARM, ON A 27'-0" SQUARE STEEL POLE WITH POLE BASE COVER ON 36" CONCRETE BASE. COLOUR OF FINISH OF POLE AND HEAD TO MATCH EXISTING ON SITE. LAMPS SHALL BE SUPPLIED WITH THE FIXTURE. VISIONAIRE LIGHTING CAT.# 2-AME-2-T5-400-PMH-347V-HLFG-BOA10-XX (FLAT GLASS). |
| C | 4'-2 LAMP FLUORESCENT STRIP LIGHT C/W 120V ELECTRONIC BALLAST, WIREGUARD AND 2x32 T8 LAMPS. VOLTAGE AS REQUIRED. HEMILUMS CAT.# 78-232-WG11-EB2-120V. PROVIDE COLD START (HO) BALLAST IN GARBAGE ROOM. |
| D | DECORATIVE FIXTURE TO BE SUPPLIED BY OWNER BUT INSTALLED AND WIRED BY THIS ELECTRICAL CONTRACTOR. |
| F | WALLPACK FIXTURE TO BE SUPPLIED BY OWNER BUT INSTALLED AND WIRED BY THIS ELECTRICAL CONTRACTOR. |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CERTIFICATE OF AUTHORIZATION
HAMMERSCHLAG & JOFFE INC.
NUMBER 7-14
PERMISSION TO CONSULTANT TO HELD BY:
DISCIPLINE: ELECTRICAL SIGNATURE
SUBD. 7630

| Issue: | Rev: | Date: | Issue / Revision: | By: |
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| 1 | | AUG.19/2010 | ISSUED FOR BUILDING PERMIT | M.H |

PROFESSIONAL ENGINEER
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Project :

FAITHFULL AVENUE

SASKATOON, REGINA

Drawing Name :

LEGEND, SPECIFICATION AND DETAILS

| | | | |
|---|---|---|---|
| Proj. no. : | 10-296 | Date : | AUGUST 2010 |
| Drawn by : | J.S | Scale : | N.T.S |
| Checked by : | M.H | | |

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