

ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE CONSULTANT AND NO REPRODUCTIONS MAY BE MADE WITHOUT THE CONSENT OF THE CONSULTANT AND ALL REPRODUCTIONS MUST BEAR THE NAME OF THE CONSULTANT.
 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS AND LEVELS NOTED ON THE DRAWINGS WITH THE CONDITIONS ON SITE AND SHALL BE RESPONSIBLE FOR REPORTING ANY ERRORS OR OMISSIONS TO THE ENGINEER FOR ADJUSTMENTS.
 THIS DRAWING SHALL NOT BE SCALED.

WORK IN EXISTING AREA

- A. Refer to electrical, architectural, and mechanical drawings for work involved in existing building.
- B. Examine the site and local conditions affecting the work to establish all information necessary for the installation. No extra compensation will be allowed due to failure to make this examination.
- C. Install, wire and connect all new mechanical equipment as shown or noted on the drawing as specified.
- D. Rewire, alter, modify, divert and extend existing wiring as herein specified and as may be required to provide a complete, approved, and fully operative installation to the satisfaction of the Engineer.
- E. In all areas where existing walls, ceilings, etc. are required to be cut into or removed, or other similar construction or alterations are required, existing wiring in the areas required to remain in use for any reason, this contractor shall reroute, alter, and/or divert all such wiring in these areas in an approved manner, concealed in the building structure where required in such a manner that the original electrical capacity or characteristics of the existing wiring is maintained to the complete satisfaction of the engineer.
- F. Conduits and boxes shall be installed exposed (surface mounted) only in areas specified.
- G. Cutting and patching necessary for conduit work, etc., shall be as specified in another section of this contract. Routes of conduits, etc. shall be coordinated with the owner and engineer in order to keep such cutting and patching to a minimum. All existing wiring that is required to remain in use and required to be diverted and extended to appropriate existing panelboards, etc., shall be installed in conformance with this specification.
- H. Existing branch circuit wiring within the areas of the renovations which are substandard or do not meet normal requirements, shall be noted and owner advised. All existing circuits which are required to be reconnected shall be free from interconnection (cross connected circuits, i.e. accidentally connected to the conductors of another circuit) and shall conform to the installation tests described elsewhere in this section of the specification. The responsibility for existing wiring which is not required to be altered in any way is beyond the area of this contract and is not included in this scope of work unless such wiring is specifically affected due to work carried out in this contract.
- J. Existing branch circuit wiring and outlets, etc. for any electrical systems no longer required to remain in use shall be removed, or if this is not possible, rendered permanently inaccessible and completely disconnected from the electrical distribution system. Existing branch circuit wiring which unnecessarily extends into the construction area shall be terminated (deadened) in an approved manner.
- K. Disconnect and remove all existing lighting fixtures as specified and noted on drawings.
- L. Scheduling work in existing building shall be as arranged with the owners to minimize disruption to owner's operations during normal working hours. Any shutdowns or interruptions to systems or operation shall be at times acceptable to and approved by the owners and architects.
- M. Owners shall remove items such as special equipment, devices, cables, etc., in areas to be renovated prior to commencement of electrical work. Electrical trade shall remove/terminate any branch circuit wiring, etc., no longer required which supplied the above equipment.

PANEL MOUNTING LOCATION	'A' SURFACE MECH/ELEC ROOM	VOLTAGE MAIN BUS REMARKS	120/240V-1PH-3W 200A EXISTING
6	WASHROOM EXHAUST FANS	15 1	2 15 BATHROOM LIGHTS
6	OUTSIDE CANOPY LIGHTING	15 3	4 30 RELOCATED UTILITY ROOM UNIT HEATER
6	MAIN HALL PLUGS	15 5	6 6 BATHROOM HEATERS
6	VENDING MACHINE PLUG (HALLWAY RECEPTACLE)	15 7	8 20 BATHROOM HEATERS
6	CENTRE ROW LIGHTS	15 9	10 20 HOT WATER TANK
6	OUTER ROW LIGHTS	15 11	12 20 FRONT WEST WALL HEATERS
6	VENDING MACHINE PLUG (DOOR OPERATOR)	15 13	14 20 BASEBOARD HEATERS
6	UTILITY ROOM LIGHTS	15 15	16 30 UTILITY ROOM UNIT HEATER
6	VENDING MACHINE PLUG (DOOR OPERATORS)	15 17	18 20 BASEBOARD HEATERS
6	VENDING MACHINE PLUG (F WATER FOUNTAIN RECEPTACLE)	15 19	20 20 UTILITY ROOM UNIT HEATER
6	MACHINE SHED POLE SECURITY LIGHT	30 21	22 20 BASEBOARD HEATERS
7	WASHROOM BASEBOARD HEATERS	15 25	26 20 WELL PUMP MOTOR (NEW HRV-1)
7	HC-1 (3KW)	20 29	30 15 COUNTER PLUG
7	HC-2 (1KW)	15 33	34 15 TIMER FOR OUTSIDE WATER TAP
7	SPACE	35	36 15 CISTERN PUMP
7	RECEPTACLE UNDER PANEL	15 37	38 15 SPACE
7	RECEPTACLE UNDER PANEL	15 39	40 -

LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	MOUNTING	CATALOG NUMBER	LAMPS
A1	VANDAL RESISTANT LINEAR LED FIXTURE	SURFACE MOUNTED	LUMINAIRE LED VPF44-25W 4000K CP	27W LED
A2	VANDAL RESISTANT LINEAR LED FIXTURE C/W OCCUPANCY SENSOR	SURFACE MOUNTED	LUMINAIRE LED VPF44-25W 4000K CP OCCBT	27W LED
B	8' LED STRIP LIGHT	SURFACE MOUNTED	LITHONIA TZL1N-L96-10000LM-FST-MVOLT -40K-80CRI	68W LED
E	EXISTING LIGHTING FIXTURE	-	-	-

LUMINAIRE SCHEDULE NOTES:
 1. ALL FLUORESCENT BALLAST TO BE ELECTRONIC.
 2. UNLESS OTHERWISE NOTED, ALL FLUORESCENT LAMPS TO BE 3500K & 85 CRI, ALL LEDS TO BE 4000K & 80 CRI.
 3. PROVIDE PHOTOCCELL CONTROL FOR ALL OUTDOOR LUMINAIRES.
 4. ALL LUMINAIRES TO BE MB HYDRO "POWER SMART" APPROVED.

MOTOR SCHEDULE								
NO.	DESCRIPTION	LOCATION	VOLTAGE	HP/W/MCA	C.B.	COND.	STARTER	NOTES
HWT-1	EXISTING HOT WATER TANK	MECH/ELEC ROOM	240V-1PH	2.5KW	20A-2P	#12	-	1
HRV-1	NEW HEAT RECOVERY VENTILATOR	MECH/ELEC ROOM	120V-1PH	FRAC.	15A-1P	#12	-	1
HC-1	HEATING COIL	MECH/ELEC ROOM	240V-1PH	3KW	20A-2P	#12	-	1
HC-2	HEATING COIL	MECH/ELEC ROOM	120V-1PH	1KW	15A-1P	#12	-	1

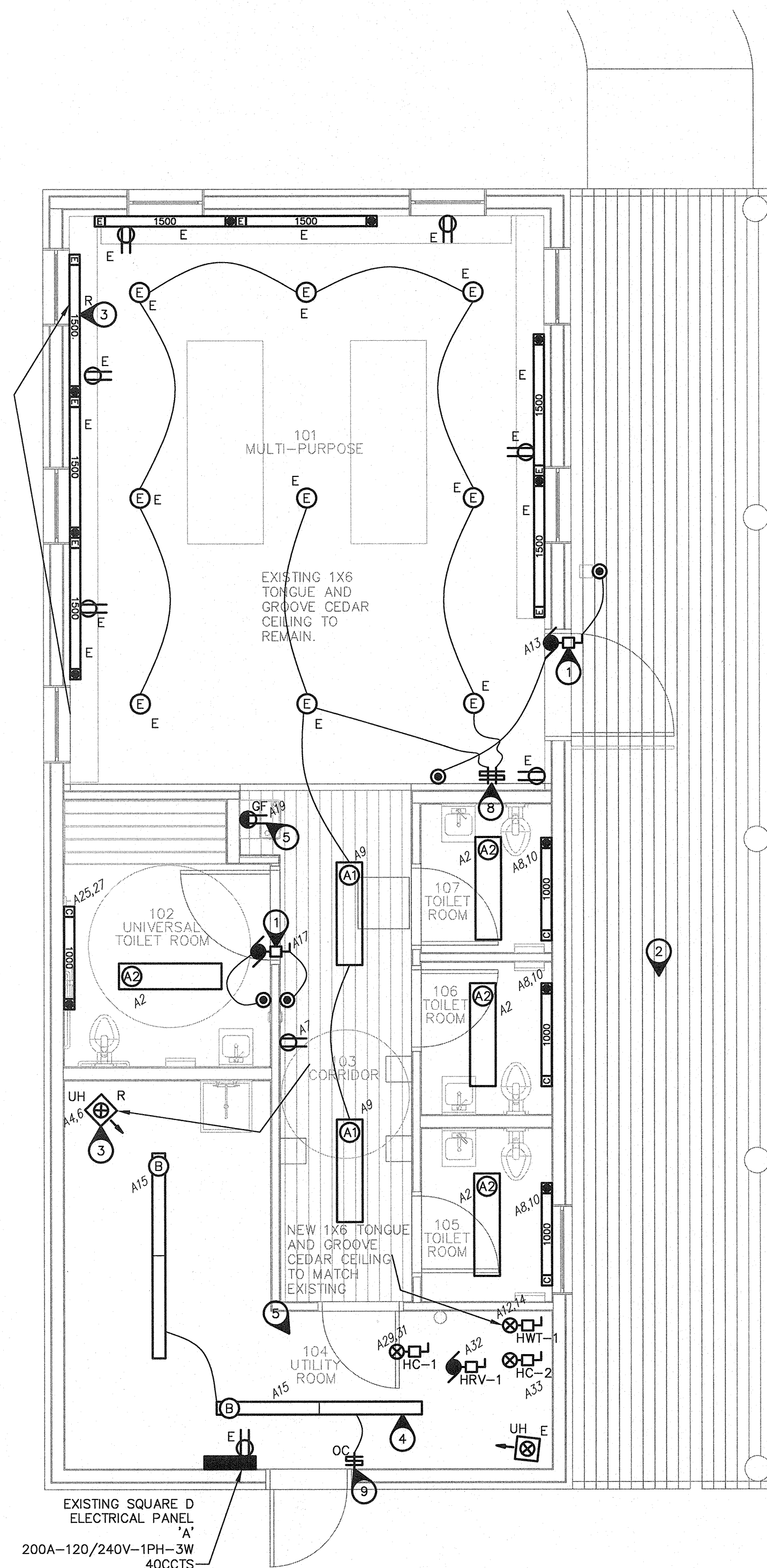
SPECIFIC NOTES:
 1. WIRE AND CONNECT AS REQUIRED. REFER TO MECHANICAL.
 2. MAGNETIC STARTER BY ELECTRICAL CONTRACTOR.
 3. MANUAL STARTER BY ELECTRICAL CONTRACTOR.
 4. COORDINATE INSTALLATION OF PATHWAYS TO PIT FOR SUMP PUMP WIRING.

GENERAL NOTES:
 A. MANUAL STARTERS TO BE C/W OVERCURRENT PROTECTION.
 B. ALL DISCONNECT SWITCHES TO BE SUPPLIED BY ELECTRICAL CONTRACTOR.
 C. ELECTRICAL CONTRACTOR TO PROVIDE CIRCUIT BREAKERS AND WIRING ACCORDING TO THE FINAL NAMEPLATES OF ALL THE MECHANICAL EQUIPMENT.
 D. ALL LOW VOLTAGE CONTROL WIRING BY MECHANICAL CONTRACTOR.
 E. ALL LINE VOLTAGE CONTROL WIRING BY ELECTRICAL CONTRACTOR - REFER TO MECHANICAL SECTION. CO-ORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.

HEATING SCHEDULE							
TYPE	WATTS	VOLTAGE	VOLTAGE	DESCRIPTION	MANUFACTURER	CATALOGUE NO.	NOTES
C	1000	120	240	BASEBOARD	OUELLET	OFM100	1

SPECIFIC HEATING NOTES:
 1. C/W BUILT-IN THERMOSTAT OR WIRED TO REMOTE THERMOSTAT AS SHOWN ON DRAWINGS.
 2. RECESSED UNLESS OTHERWISE INDICATED. C/W BUILT-IN THERMOSTAT UNLESS OTHERWISE INDICATED.
 3. C/W BUILT-IN THERMOSTAT. MOUNT SECURELY WHERE INDICATED TO THE SATISFACTION OF THE ENGINEER.

GENERAL HEATING NOTES:
 A. VOLTAGE TO BE AS INDICATED ABOVE UNLESS OTHERWISE NOTED ON DRAWINGS.



ELECTRICAL RENOVATION LAYOUT
 SCALE: 1/4" = 1'-0"

SPECIFIC ELECTRICAL NOTES

- 1 WIRE AND CONNECT DOOR OPERATOR AND ASSOCIATED CONTROLS AS REQUIRED.
- 2 EXTERIOR LIGHTING IS EXISTING TO REMAIN.
- 3 RELOCATE EXISTING ELECTRICAL DEVICE AS SHOWN. EXTEND/REROUTE WIRING AS REQUIRED.
- 4 WIRE AND CONNECT NEW UTILITY ROOM LIGHTING FIXTURES TO EXISTING LIGHTING CONTROLS. UTILIZE EXISTING LIGHTING CIRCUIT FOR NEW FIXTURES.
- 5 EXISTING ELECTRICAL DEVICES IN MECH/ELEC ROOM NOT INTERFERING WITH RENOVATION ARE EXISTING TO REMAIN.
- 6 UTILIZE EXISTING CIRCUIT BREAKER FOR NEW/RENOVATED ELECTRICAL DEVICES.
- 7 PROVIDE NEW MATCHING CIRCUIT BREAKER.
- 8 SWITCHES TO HAVE LOCKABLE COVERPLATE.
- 9 DISCONNECT EXISTING LIGHTING CONTROLS AND REPLACE WITH NEW OCCUPANCY SENSOR SWITCH TO CONTROL UTILITY ROOM LIGHTING.

NOTE:
 ALL DIMENSIONS TAKEN TO FACE OF STUD UNLESS OTHERWISE NOTED

NOVA 3 ENGINEERING LTD.
 PROFESSIONAL ENGINEERS
 201-120 FORT STREET TEL: (204) 943-6142
 WINNIPEG, MANITOBA R3C 1C7 FAX: (204) 942-1276
 WWW.NOVA3.CA IN: 59-078
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Revisions
 19/07/29 Issued for Tender, Permit, and Construction
 Date Revision

Northern Sky Architecture Inc.
 100-128 James Avenue
 Winnipeg, Manitoba, Canada
 R3B 0N8
 contact@nso.ca
 Fax 204.956.7979
 204.943.6767

Stamp
PEGM
 Certificate of Authorization
 Nova 3 Engineering Ltd.
 No. 962 Date: 2019-07-29

Stamp
PROVINCE OF MANITOBA
SWINTAK
 Member
 REGISTERED ENGINEER

Project City of Winnipeg
 Little Mountain Park
 Washroom/Change Building
 64093 Klmpke Road
 Winnipeg, Manitoba
 drawing title
ELECTRICAL RENOVATION LAYOUT AND SCHEDULES
 scale as noted designed by ITS
 date 2019-07-29 drawn by CL
 project no. 19,166 reviewed by DZ
 reference no. sheet E2.0 REV.