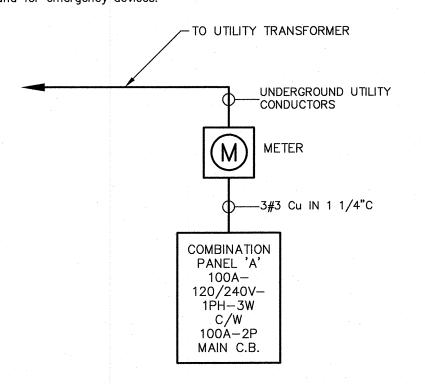
ELECTRICAL SPECIFICATION

- 1. Scope of Work The contract shall include the furnishing of labour, new material, equipment and services necessary and reasonably implied and incidental to the complete installation of the electrical work shown on the plans and specifications. Supply and install all devices required for the complete approved system, operating to the complete satisfaction of the contract administrator.
- 2. Laws, Rules, Ordinances and Inspections The entire electrical installation shall comply with the latest edition of the Canadian Electrical Code and with all provincial and municipal laws; rules and ordinances. Prepare and submit to the proper authorities all necessary permits and pay all permit fees.
- 3. Drawings The Electrical Subcontractor shall carefully examine all drawings relating to the work, to be certain that the work under this contract can be carried out and, prior to the submission of his tender, report at once to the contract administrator any defect, discrepancy, omission or interference affecting the work of this section or the guarantee of same.
- 4. Responsibility Be responsible for any damage caused the City or their contractors by improperly carrying out this contract.
- 5. Identification Install designatory lettering on all electrical equipment.
- 6. Existing Work The Electrical Subcontractor shall take into account items which he/she is responsible for due to the changes and alterations to the existing building and allow for such items that may occur in his/her tendered price.
- 7. Minimum wire size #12 AWG all wiring to be copper.
- 8. Unless otherwise instructed in writing, conceal all wiring.
- 9. Final electrical installation shall conform to electrical subcontractors contractual obligations with respect to this project. Responsible professional engineer is to be notified of any deviations contemplated to the design.
- 10. Owner to pay all utility contribution charges for associated power. Electrical subcontractor to provide trenching and backfilling as required. Coordinate all requirements with utilities prior to tender close to ensure availability and contribution costs of services.
- 11. All electrical outlets and devices to be labeled with circuit number and panel. Use black letters on white background for non emergency devices and black letters on red background for emergency devices.



GARAGE SINGLE LINE DIAGRAM

* SIZE CIRCUIT BREAKER AND WIRING ACCORDING TO THE FINAL NAMEPLATE RATING ON THE EQUIPMENT.

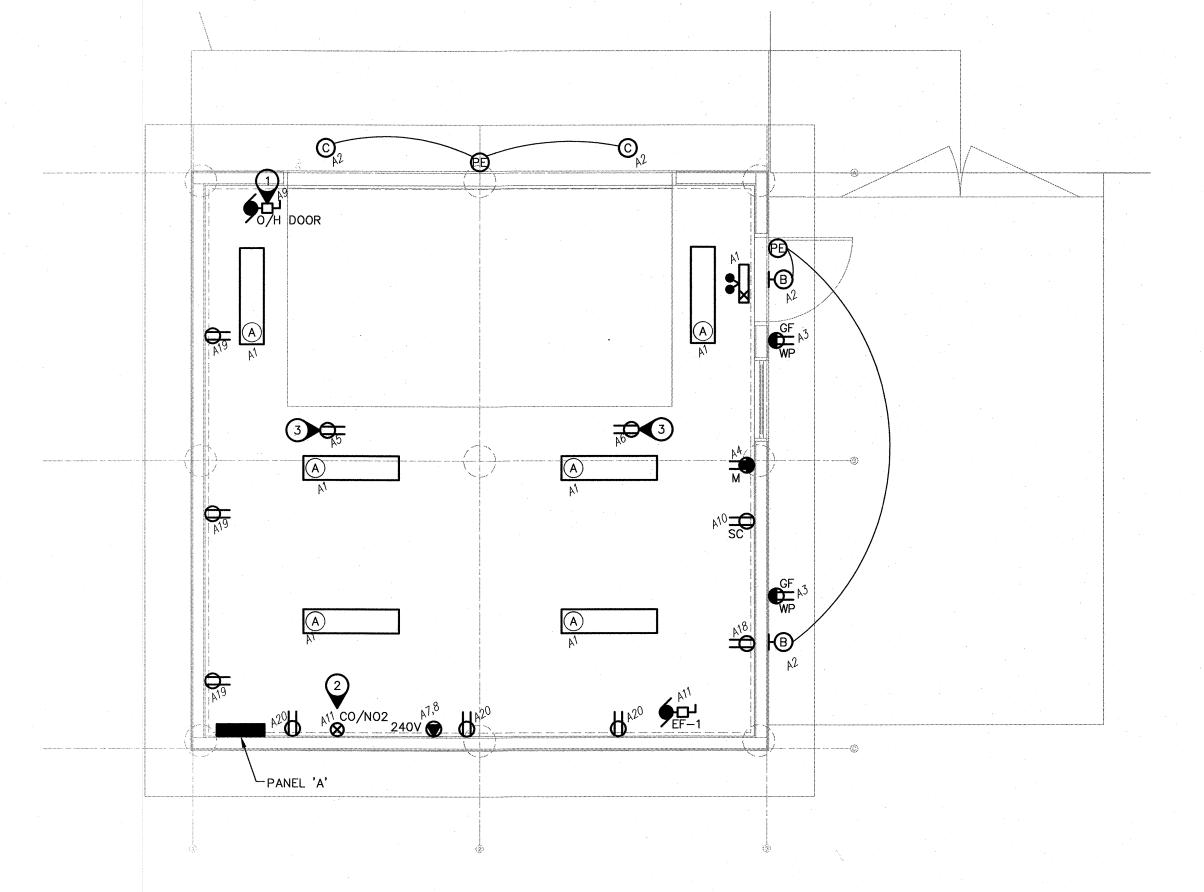
PANEL 'A' MOUNTING SURFACE				TAGE 120/208V-3PH-4W N BUS 100A	
LOCATION GARAGE				REMARKS C/W DOOR	
DESCRIPTION	BKR	CIRCUIT	BKR	DESCRIPTION	
LIGHTING, EMERGENCY LIGHTING	15	1 - 13		SPACE	
EXTERIOR LIGHTING	15	2 -14		SPACE	
WP GF RECEPTACLE	15	315		SPACE	
MICROWAVE T-SLOT RECEPTACLE	20	4 -16	_	SPACE	
CEILING REEL RECEPTACLE	15	517	_	SPACE	
CEILING REEL RECEPTACLE	15	6	15	RECEPTACLE	
AIR COMPRESSOR RECEPTACLE	15	7 — 19	15	RECEPTACLE	
		820	15	RECEPTACLE	
OVERHEAD DOOR OPERATOR	15	9 — 21	_	SPACE	
SC RECEPTACLE	15	1022	_	SPACE	
EF-1, CO/NO2	15	1123	15	SPARE	
SPACE	-	12 24	15	SPARE	

SPECIFIC ELECTRICAL NOTES

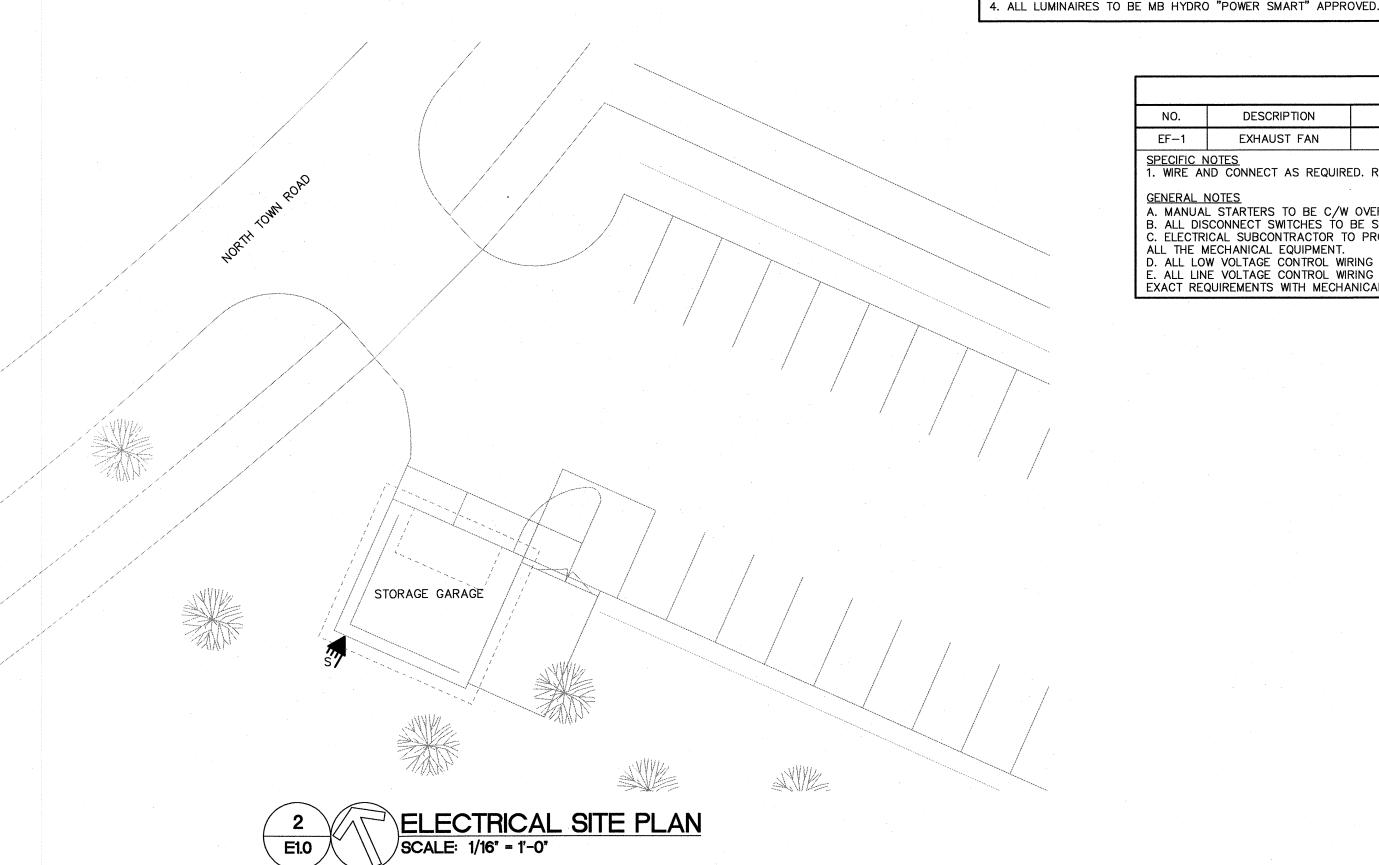
WIRE AND CONNECT OVER HEAD DOOR AND ALL ASSOCIATED CONTROLS AS PER MANUFACTURERS RECOMMENDATIONS.

WIRE AND CONNECT CO/NO2 ALARM AS PER MANUFACTURERS RECOMMENDATIONS. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL SUBCONTRACTOR.

3 RECEPTACLE MOUNTED ON CEILING.







SYMBOL SCHEDULE

Linear luminaire, 'B1-a' denotes panel circuit # and switch.

Ceiling mounted luminaire.

Wall mounted luminaire. 'A' denotes type.

Single pole switch. Single pole switches in multiple.

Photocell by electrical contractor c/w occupancy sensor. Sensorswitch SBOR 6 ODP VLP TBD

Duplex receptacle.

Duplex receptacle on separate circuit. Provide lamacoid label indicating "SC".

20A T-slot receptacle for microwave mounted above counter. Verify location before

Duplex receptacle mounted above counter level. (See architectural elevations.)

Duplex receptacle weather proof.

Ground fault duplex receptacle.

Special outlet to match owners equipment. Confirm voltage, amperage, poles and configuration prior to installation.

Motor. Refer to mechanical for exact location. For roof mounted equipment, supply and install wire and connect a separate circuit GFI receptacle in accordance with C.E.C. rule

Fusible disconnect switch to suit application. By electrical contractor.

LUMINAIRE SCHEDULE

LOCATION

GARAGE

MOUNTING

SURFACE

SURFACE

RECESSED IN SOFFIT

DESCRIPTION

EXHAUST FAN

ALL THE MECHANICAL EQUIPMENT.

SPECIFIC NOTES

1. WIRE AND CONNECT AS REQUIRED. REFER TO MECHANICAL.

EXACT REQUIREMENTS WITH MECHANICAL SUBCONTRACTOR.

D. ALL LOW VOLTAGE CONTROL WIRING BY MECHANICAL SUBCONTRACTOR.

. UNLESS OTHERWISE NOTED, ALL FLUORESCENT LAMPS TO BE 3500K & 85 CRI, ALL LEDS TO BE 4000K & 80 CRI.

Junction box.

DESCRIPTION

4' LED VAPOR PROOF

LED EXTERIOR WALL PACK

6" ROUND LED DOWN LIGHT

. ALL FLUORESCENT BALLAST TO BE ELECTRONIC.

. PROVIDE PHOTOCELL CONTROL FOR ALL OUTDOOR LUMINAIRES.

NO.

EF-1

LUMINAIRE SCHEDULE NOTES:

Combination LED pictogram exit sign/emergency double head fixture c/w two(2) 6W (540 lumen) LED lamps and integral battery backup (minimum 30 minutes). Aimlite.

Underground service point. Co—ordinate location with Manitoba Hydro prior to rough—in. Run main feeders to utility preferred location. Provide adequate clearance from grade. Provide all necessary mounting attachments, trench, backfilling, mechanical protection, etc.

CATALOG NUMBER

LITHONIA FEM L48 4000LM IMAFL MD 120 GZ10 40K 80CRI

LITHONIA DSXW1 10C 350 40K T4M 120 DMG TBD

LITHONIA LDN6 40/05 LO6AR LSS 120 GZ10 WL

| VOLTAGE | HP/W/MCA | C.B. | COND. | STARTER | NOTES

MOTOR SCHEDULE

GENERAL NOTES

A. MANUAL STARTERS TO BE C/W OVERCURRENT PROTECTION.

B. ALL DISCONNECT SWITCHES TO BE SUPPLIED BY ELECTRICAL SUBCONTRACTOR.

C. ELECTRICAL SUBCONTRACTOR TO PROVIDE CIRCUIT BREAKERS AND WIRING ACCORDING TO THE FINAL NAMEPLATES OF

E. ALL LINE VOLTAGE CONTROL WIRING BY ELECTRICAL SUBCONTRACTOR - REFER TO MECHANICAL SECTION. CO-ORDINATE

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JN.: 39128E

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Revisions

LAMPS

31W LED

13W LED

7.6W LED

Nov, 28, 2019 Issued for construction Sept, 26, 2019 Issued for 99% review Sept. 04, 2019 Issued for 95% review

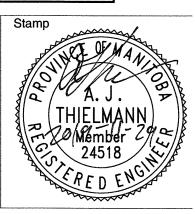
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Nova 3 Engineering Ltd. No. 962 Date: 2019-11-29



Project

City of Winnipeg Bridgwater Storage Garage

> 200 North Town Road Winnipeg, Manitoba

MAIN FLOOR PLAN ELECTRICAL as noted designed by drawn by August, 2019 project no. reviewed by 19.236 reference no. sheet

E1.0