



1 PARTIAL SINGLE LINE DIAGRAM
E4.1 SCALE: NTS

MOTOR SCHEDULE

MOTOR No.	NAME	LOCATION	H.P. (KW)	VOLTS	STARTER & ACC.			CIRCUIT	STARTER LOCATION	FEEDER	FIRE ALARM SHUTDOWN	REMARKS
					MAN	WAG	PL / HDA					
HRU-1	HEAT RECOVERY UNIT	LOWER ROOF	70A MOCF 45.7 FLA	575V 3Ø				CDP-A	NEAR UNIT	3Ø4	N/A	PACKAGED CONTROLS SINGLE POINT CONNECTION.
HRU-2	HEAT RECOVERY UNIT	LOWER ROOF	70A MOCF 45.7 FLA	575V 3Ø				CDP-A	NEAR UNIT	3Ø4	N/A	PACKAGED CONTROLS SINGLE POINT CONNECTION.
IH-39	INFARED HEATER	BUS REPAIR	1 FLA	120V 1Ø	✓			EXST	NEAR UNIT	2Ø12	N/A	THERMOSTAT CONTROL BY MECH. RE-USE EXISTING CIRCUIT.
IH-42	INFARED HEATER	BUS REPAIR	1 FLA	120V 1Ø	✓			EXST	NEAR UNIT	2Ø12	N/A	THERMOSTAT CONTROL BY MECH. RE-USE EXISTING CIRCUIT.
IH-43	INFARED HEATER	BUS REPAIR	1 FLA	120V 1Ø	✓			EXST	NEAR UNIT	2Ø12	N/A	THERMOSTAT CONTROL BY MECH. RE-USE EXISTING CIRCUIT.
IH-44	INFARED HEATER	BUS REPAIR	1 FLA	120V 1Ø	✓			EXST	NEAR UNIT	2Ø12	N/A	THERMOSTAT CONTROL BY MECH. RE-USE EXISTING CIRCUIT.
IH-45	INFARED HEATER	BUS REPAIR	1 FLA	120V 1Ø	✓			EXST	NEAR UNIT	2Ø12	N/A	THERMOSTAT CONTROL BY MECH. RE-USE EXISTING CIRCUIT.
IH-46	INFARED HEATER	BUS REPAIR	1 FLA	120V 1Ø	✓			EXST	NEAR UNIT	2Ø12	N/A	THERMOSTAT CONTROL BY MECH. RE-USE EXISTING CIRCUIT.
IH-47	INFARED HEATER	BUS REPAIR	1 FLA	120V 1Ø	✓			EXST	NEAR UNIT	2Ø12	N/A	THERMOSTAT CONTROL BY MECH. RE-USE EXISTING CIRCUIT.
IH-48	INFARED HEATER	BUS REPAIR	1 FLA	120V 1Ø	✓			EXST	NEAR UNIT	2Ø12	N/A	THERMOSTAT CONTROL BY MECH. RE-USE EXISTING CIRCUIT.
IH-49	INFARED HEATER	BUS REPAIR	1 FLA	120V 1Ø	✓			EXST	NEAR UNIT	2Ø12	N/A	THERMOSTAT CONTROL BY MECH. RE-USE EXISTING CIRCUIT.
IH-50	INFARED HEATER	BUS REPAIR	1 FLA	120V 1Ø	✓			EXST	NEAR UNIT	2Ø12	N/A	THERMOSTAT CONTROL BY MECH. RE-USE EXISTING CIRCUIT.
IH-51	INFARED HEATER	BUS REPAIR	1 FLA	120V 1Ø	✓			EXST	NEAR UNIT	2Ø12	N/A	THERMOSTAT CONTROL BY MECH. RE-USE EXISTING CIRCUIT.
IH-52	INFARED HEATER	BUS REPAIR	1 FLA	120V 1Ø	✓			EXST	NEAR UNIT	2Ø12	N/A	THERMOSTAT CONTROL BY MECH. RE-USE EXISTING CIRCUIT.

GENERAL NOTES

- A. ALL WIRE INSTALLED IN CONDUIT UNLESS NOTED OTHERWISE.
- B. PROVIDE SEPARATE BONDING CONDUCTORS FOR ALL NEW FEEDERS.

KEY NOTES

- 1. PROVIDE NEW CURRENT SENSOR RINGS COMPATIBLE WITH EXISTING EATON ENERGY MANAGEMENT SYSTEM FOR CDP-A FEEDERS. ARRANGE AND PAY EATON FOR RE-PROGRAMMING. COORDINATE REQUIREMENTS WITH MANUFACTURER.
- 2. CABLES SPACED AT LEAST ONE DIAMETER APART ON NEW CABLE TRAY.
- 3. SET LONG TIME AT 70A.
- 4. PROVIDE SURGE PROTECTION DEVICE WITH NEW CDP.

4			
3			
2			
1			
0	ISSUED FOR CONSTRUCTION	AS	07/06/22
NO.	Description	BY	DDMMYY

**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
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Project Title
TRANSIT MAINTENANCE AND REPAIR BUILDING MECHANICAL UPGRADE - WEST HIGH BAY
WINNIPEG MANITOBA

Drawing Title
PARTIAL SINGLE LINE DIAGRAM AND ELECTRICAL SCHEDULE

Drawn By WPD	Checked By CRM	Approved By AS
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