PUMP SCHEDULE

TAG	SERVICE	CAPACITY		TDH		PUMP SPEED	IMPELLER DIA.	SUCTION DIA.	DISCHARGE DIA.	SOLIDS SIZE	MOTOR			POWER		MAKE	MODEL	COMMENTS
		US GPM	L/s	FT WC	m WC	RPM	mm	mm	mm	mm	HP	kW	RPM	VOLTS	PHASE			
P-L01	WASTEWATER PUMP	491	31	62.3	19.0	1200	320	150	100	75	20	14.9	1200	575	3	FLOWSERVE	4MF13C FR4T	PUMPS OPERATED AT FIXED SPEED. DUTY POINT TRIM BY ADJUSTING PUMP SPEED. PUMP PERFORMANCE RATING BASED ON FULL SIZE IMPELLER.
P-L02	WASTEWATER PUMP	491	31	62.3	19.0	1200	320	150	100	75	20	14.9	1200	575	3	FLOWSERVE	4MF13C FR4T	PUMPS OPERATED AT FIXED SPEED. DUTY POINT TRIM BY ADJUSTING PUMP SPEED. PUMP PERFORMANCE RATING BASED ON FULL SIZE IMPELLER.
P-L03	WASTEWATER PUMP	491	31	62.3	19.0	1200	320	150	100	75	20	14.9	1200	575	3	FLOWSERVE	4MF13C FR4T	PUMPS OPERATED AT FIXED SPEED. DUTY POINT TRIM BY ADJUSTING PUMP SPEED. PUMP PERFORMANCE RATING BASED ON FULL SIZE IMPELLER.
P-L04	SUMP PUMP	60	3.8	18.7	5.7	3450	–	N/A	38	19	3/4	0.56	3450	115	1	LIBERTY	293	FULLY ADJUSTABLE WIDE-ANGLE PIGGY-BACK FLOAT SWITCH. TURN ON LEVEL 330 mm (13 in.) TURN OFF LEVEL 178 mm (7 in.)

FAN SCHEDULE

TAG	SERVICE	AIRFLOW		ESP		FAN	DRIVE	MOTOR			POWER		MAKE	MODEL	COMMENTS
		CFM	L/s	IN. W.C.	Pa	RPM		HP	kW	RPM	VOLTS	PHASE			
SF-L64	MAIN FLOOR SUPPLY FAN	700	330	1.25	311.4	2172	BELT DRIVE	0.75	0.56	1725	575	3	GREENHECK	BSQ-90	INLINE FILTER (MERV 8). FAN MOTOR SHALL BE VFD RATED
EF-L65	MAIN FLOOR EXHAUST FAN	700	330	1.0	249	2030	BELT DRIVE	0.5	0.37	1725	575	3	GREENHECK	BSQ-90	FAN MOTOR SHALL BE VFD RATED

AIR CONDITIONING UNIT SCHEDULE

TAG	SERVICE	AIRFLOW		MOTOR		COOLING CAPACITY	HEATING CAPACITY	ELECTRICAL RATINGS			WEIGHT	MAKE	MODEL	COMMENTS
		CFM	L/s	HP	kW	MBH (TONS)	kW	VOLTS	PHASE	MCA	kg			
AC-L68	MAIN FLOOR AIR CONDITIONER	600	283	0.33	0.25	18 (1.5)	5	240	1	30	167.4	BARD	W18AB-A05ZPXXXJ	C/W ECONOMIZER, 2" MERV 8 FILTER, SUPPLY AND RETURN GRILLES, HONEYWELL T6 PRO PROGRAMMABLE THERMOSTAT

UNIT HEATER SCHEDULE

TAG	SERVICE	AIRFLOW		CAPACITY	ELECTRICAL RATINGS		MAKE	MODEL	COMMENTS
		CFM	L/s	kW	VOLTS	PHASE			
UH-L63	MOTOR ROOM	380	180	5	575	3	MODINE	HER-50	WALL MOUNTED THERMOSTAT

DUCT HEATER SCHEDULE

TAG	SERVICE	AIRFLOW		EAT		LAT		CAPACITY	ELECTRICAL RATINGS		SIZE		MAKE	MODEL	COMMENTS
		CFM	L/s	°F	°C	°F	°C	kW	VOLTS	PHASE	INCHES	mm			
HCE-L61	MAIN FLOOR SUPPLY AIR HEATING	700	330	-31	-35	70	21	22	575	3	12x12	305x305	PRICE	DFC100H	OPEN COIL ELEMENT, SCR CONTROL

MOTORIZED DAMPER SCHEDULE

TAG	SERVICE	WIDTH		HEIGHT		BLADE	MOUNTING	ACTUATOR			MAKE	MODEL	COMMENTS
		INCHES	mm	INCHES	mm	TYPE		VOLTS	CTRL SIGNAL	FAIL POSITION			
FV-L641	OUTDOOR SUPPLY AIR	12	305	12	305	PB	FLANGE TO DUCT	24 VAC	0-10V	CLOSED	TAMCO	9000	MECHANICAL FAIL SAFE, MODULATING DAMPER ACTUATOR
FV-L642	RETURN AIR	12	305	12	305	OB	FLANGE TO DUCT	24 VAC	0-10V	OPEN	TAMCO	1000	MECHANICAL FAIL SAFE, MODULATING DAMPER ACTUATOR
FV-L651	EXHAUST AIR	12	305	12	305	PB	FLANGE TO DUCT	24 VAC	0-10V	CLOSED	TAMCO	9000	MECHANICAL FAIL SAFE, MODULATING DAMPER ACTUATOR

LOUVER SCHEDULE

TAG	SERVICE	DIMENSIONS			MAKE	MODEL	COMMENTS
		WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)			
GR-L642	OUTDOOR SUPPLY AIR	450 (18")	450 (18")	152 (6")	EH PRICE	DE439	STATIONARY, DRAINABLE AND C/W BIRD SCREEN
GR-L651	EXHAUST FAN DISCHARGE	450 (18")	450 (18")	152 (6")	EH PRICE	DE439	STATIONARY, DRAINABLE AND C/W BIRD SCREEN

FIRE EXTINGUISHER SCHEDULE

TAG	SERVICE	RATING	TYPE	WEIGHT (kg)	COMMENTS
FEX-L67	MAIN FLOOR FIRE EXTINGUISHER	4-A:60-B:C	DRY CHEMICAL	4.5	c/w WALL MOUNTING BRACKET AND IDENTIFICATION
FEX-L672	SUB-LEVEL 2 FIRE EXTINGUISHER	4-A:60-B:C	DRY CHEMICAL	4.5	c/w WALL MOUNTING BRACKET AND IDENTIFICATION

GRILLE SCHEDULE

TAG	SERVICE	FACE SIZE (mm)	COLOR/FINISH	MAKE/MODEL	COMMENTS
GR-L643	SUPPLY AIR GRILLE	200x150 (8"x6")	B15	PRICE/ 610 SERIES	c/w OPPOSED BLADE DAMPERS, ROUND TO SQUARE TRANSITION
GR-L644	SUPPLY AIR GRILLE	200x150 (8"x6")	B15	PRICE/ 610 SERIES	c/w OPPOSED BLADE DAMPERS, ROUND TO SQUARE TRANSITION
GR-L645	SUPPLY AIR GRILLE	200x200 (8"x8")	B15	PRICE/ 610 SERIES	c/w OPPOSED BLADE DAMPERS, ROUND TO SQUARE TRANSITION
GR-L646	SUPPLY AIR GRILLE	200x150 (8"x6")	B15	PRICE/ 610 SERIES	c/w OPPOSED BLADE DAMPERS, ROUND TO SQUARE TRANSITION
GR-L652	EXHAUST AIR GRILLE	300x200 (12"x8")	B15	PRICE/ 610Z SERIES	c/w OPPOSED BLADE DAMPERS, ROUND TO SQUARE TRANSITION
GR-L653	EXHAUST AIR GRILLE	200x150 (8"x6")	B15	PRICE/ 610Z SERIES	c/w OPPOSED BLADE DAMPERS, ROUND TO SQUARE TRANSITION
GR-L654	EXHAUST AIR GRILLE	300x200 (12"x8")	B15	PRICE/ 610Z SERIES	c/w OPPOSED BLADE DAMPERS, ROUND TO SQUARE TRANSITION
GR-L655	EXHAUST AIR GRILLE	300x200 (12"x8")	B15	PRICE/ 610Z SERIES	c/w OPPOSED BLADE DAMPERS, ROUND TO SQUARE TRANSITION

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

B.M.
ELEV.

NO.	REVISIONS	DATE (YY/MM/DD)	BY
A	ISSUED FOR CONSTRUCTION	2023 03 24	

KGS GROUP

DESIGNED BY: K. RADTKE
CHECKED BY:
DRAWN BY: R. PERALTA
APPROVED BY:
SCALE: HORIZONTAL AS SHOWN
VERTICAL
RELEASED FOR CONSTRUCTION
DATE: 2022 07 19
DATE
PLOT DATE: 2023 03 22

ENGINEER'S SEAL
PROVINCE OF MANITOBA
J.V. SMITH
2023-03-22
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER
22-0107-004_M09

BID OPPORTUNITY: 864-2022

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

METCALFE LIFT PUMPING STATION
2022 UPGRADES
MECHANICAL
MECHANICAL EQUIPMENT
SCHEDULES

CITY DRAWING NUMBER 1-0162L-M0009-001
SHEET 80 OF 109

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