

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					HP	kW	RPM	VOLTS	PHASE			
P-L01	WASTEWATER PUMP	491	31	64.3	19.6	1136	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	64.3	19.6	1136	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	64.3	19.6	1136	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 RPM	DRIVE	MOTOR			POWER		MAKE	MODEL	COMMENTS
		CFM	L/s	IN. W.C.	Po			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				
AC-L68	MAIN FLOOR AIR CONDITIONER	600	283	0.33	0.25	18 (1.5)	5	240	1	30	167.4	BARD	W18AB-A052PXXXJ	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
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 TYPE	MOUNTING	ACTUATOR			MAKE	MODEL	COMMENTS
		INCHES	mm	INCHES	mm			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")	102 (4")	EH PRICE	DE439	STATIONARY, DRAINABLE AND C/W BIRD SCREEN
GR-L651	EXHAUST FAN DISCHARGE	450 (18")	450 (18")	102 (4")	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



NO.	REVISIONS	DATE	BY
1	RE-ISSUED FOR CONSTRUCTION	2023 04 12	
0	ISSUED FOR CONSTRUCTION	2023 03 24	JVS

<b>KGS GROUP</b>	
DESIGNED BY: K. RADTKE	CHECKED BY:
DRAWN BY: R. PERALTA	APPROVED BY:
SCALE: AS SHOWN	RELEASED FOR CONSTRUCTION:
HORIZONTAL DATE: 2022 07 19	DATE:
VERTICAL DATE:	DATE:

ENGINEER'S SEAL
CONSULTANT DRAWING NUMBER: 22-0107-004_M09

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
ENGINEERING DIVISION

**METCALFE LIFT PUMPING STATION  
2022 UPGRADES  
MECHANICAL  
EQUIPMENT  
SCHEDULES**

CITY DRAWING NUMBER: **1-0162L-M0009-001**

SHEET **80** OF **109**