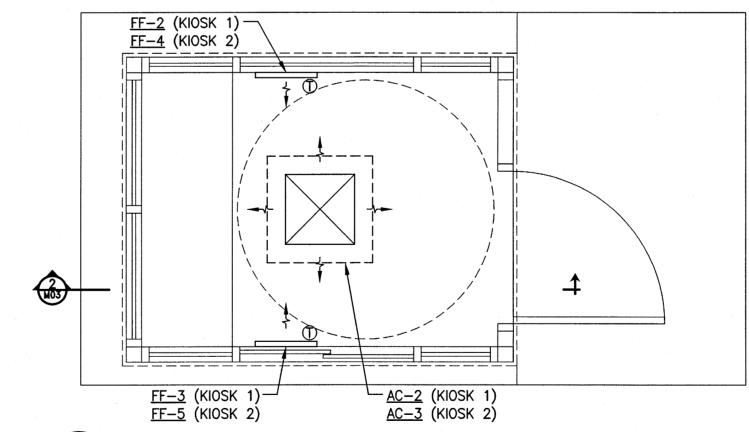


GENERAL NOTES:

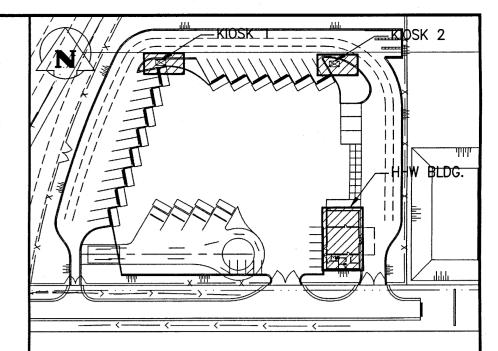
- 1. PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- 2. EQUIPMENT LOCATIONS AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM IN THE FIELD. REROUTE PIPING AS REQUIRED TO ELIMINATE FIELD INTERFERENCES, WITH BUILDING STRUCTURES, ELECTRICAL, ETC.. CONFIRM CHANGES WITH CONTRACT ADMINISTRATOR. CO-ORDINATE WORK WITH ALL SUBTRADES. WHERE DIMENSIONS ARE INDICATED FOR PIPING EQUIPMENT SIZES, ETC. THESE ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING EQUIPMENT AND COMMENCING INSTALLATION WITHOUT EXTRA CHARGES TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT, DUCTWORK AND PIPING FITS IN THE SPACE AVAILABLE AND TO MAINTAIN THE GENERAL DESIGN INTENT FOR THE
- 3. PROVIDE ALL WALL PENETRATIONS. PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE SEALED.
- 4. CONFORM TO SMACNA STANDARDS FOR SUPPLY AND INSTALLATION OF DUCTWORK. SEAL ALL DUCT JOINTS.
- 5. MOUNT THERMOSTATS AT 1200mm ABOVE FINISHED FLOOR.

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	0	RILLE	SCHEDULE	<b>\</b>
GRILLE No.	DESCRIPTION	MAKE	MODEL	APPROVED EQUIVALENTS
G1	SQUARE CONE DIFFUSER	PRICE	100/300x300/SCD/31/3C/B12	TITUS, NAILOR
G2	EGG CRATE GRILLE	PRICE	150x100/80/TB/B12	TITUS, NAILOR
G3	DOUBLE DEFLECTION SUPPLY GRILLE	PRICE	300x200/520D/SDF/S/B12	TITUS, NAILOR
G4	LOUVERED FACE RETURN GRILLE	PRICE	300x200/510ZD/SDF/S/B12	TITUS, NAILOR
G5	TRANSFER AIR GRILLE	PRICE	300x300/STG1/BF/B15	TITUS, NAILOR

			~~~~
-	}		
LOUVRE No.	SIZE	MAKE/MODEL	APPROVED EQUIVALENTS
L1	750x750	PRICE/DE439	VENTEX
L2	300x300	PRICE/DE439	VENTEX
L3	500x500	PRICE/DE439	VENTEX)



KIOSK - FLOOR PLAN (TYP. OF KIOSK 1 & 2) SCALE: 1:25



KEYPLAN: N.T.S.

LEGEND:

---- NEW EQUIPMENT/DUCTWORK

E/A EXHAUST AIR

O/A OUTSIDE AIR <u>UH</u># UNIT HEATER

PTAC-# PACKAGED TERMINAL AIR CONDITIONER

<u>BH—</u># BASEBOARD HEATER AC-# AIR CONDITIONING UNIT

<u>CU-</u># CONDENSING UNIT FF-# FORCE FLOW HEATER

SF-# SUPPLY FAN

<u>EF-</u># EXHAUST FAN

<u>DH</u># DUCT HEATER

<u>ERV</u># ENERGY RECOVERY VENTILATOR ---- AIRFLOW DIRECTION

EXTERNAL DUCT INSULATION

REFRIGERANT PIPING

BALANCE DAMPER

BACKDRAFT DAMPER

THERMOSTAT

CARBON MONOXIDE SENSOR

(NO₂) NITROGEN DIOXIDE SENSOR MD-# MOTORIZED DAMPER

EXHAUST AIR

G# GRILLE NO.

-x- NECK SIZE - L/s ___AIR FLOW RATE

LOUVER NO.

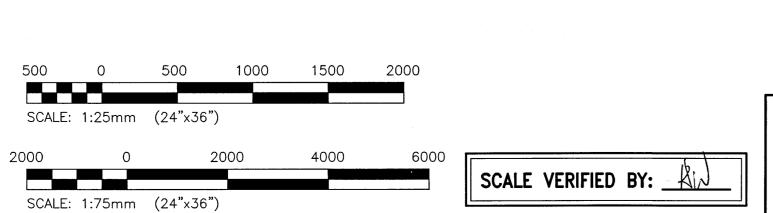
_x___LOUVER SIZE

- L/s AIR FLOW RATE **KEYNOTES:**

- INSTALL NEW WALL MOUNTED EXHAUST FAN (EF-2). INSTALL U/S OF FAN AT 3150mm ABOVE FLOOR.
- (2) INSTALL GRILLES AT 45° DOWN FROM HORIZONTAL. (TYP.)
- HANG UNIT HEATERS FROM CEILING WITH THREADED RODS.
- HANG AT 2400mm FROM FLOOR TO U/S OF HEATER. (TYP.) INSTALL CONDENSING UNIT (CU-1). PROVIDE WALL BRACKET SUPPORTS. SUPPLY AND INSTALL INSULATED
- REFRIGERANT PIPING ACCORDING TO MANUFACTURERS INSTALLATION INSTRUCTIONS.
- 5 INSTALL NEW ENERGY RECOVERY VENTILATOR (ERV-1) IN CEILING SPACE. RUN CONDENSATE DRAIN LINES TO FLOOR DRAIN IN HWT ROOM. (ERV-1) SHALL BE SUPPLIED BY THE CITY.
- 6 INSTALL PACKAGED TERMINAL AIR CONDITIONING UNITS (PTAC-1 & PTAC-2) BELOW WINDOW. MOUNT U/S OF UNIT AT 350mm ABOVE FLOOR. (TYP.)
- MOUNT INDOOR AIR CONDITIONING UNIT ON WALL IN I.T. CLOSET. RUN CONDENSATE LINE TO FLOOR DRAIN IN HWT ROOM.
- 8 INSTALL NEW ELECTRIC BASEBOARD HEATERS (BH-1 TO BH-3) C/W LINE VOLTAGE TURBURGET / BH-3) C/W LINE VOLTAGE THERMOSTAT (THERMOSTATS SUPPLIED BY MECHANICAL, INSTALLED BY ELECTRICAL).
- 9 INSTALL NEW ELECTRIC FORCE FLOW HEATER (FF-1) C/W LINE VOLTAGE THERMOSTAT. (THERMOSTATS SUPPLIED BY MECHANICAL, INSTALLED BY ELECTRICAL).
- MAINTAIN 500mm DISTANCE FROM DUCT HEATER (DH-2) FROM MOTORIZED DAMPER (MD-3) AND SUPPLY FAN
- RUN U/S OF NEW SUPPLY AIR DUCT HEADER AT 3150mm ABOVE FLOOR.

THE CITY OF WINNIPEG

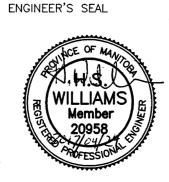
WATER AND WASTE DEPARTMENT



APEGN
Certificate of Authorization
KGS Group
No. 245

LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. ELEV.		
SUPV. U/G STRUCTURES DATE				
COMMITTEE				
NOTE:				
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION				
AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR				
THAT THE GIVEN LOCATIONS ARE EXACT.				
CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE	1	RE-ISSUED FOR TENDER		
BTAINED FROM THE INDIVIDUAL UTILITIES EFORE PROCEEDING WITH CONSTRUCTION.	0	ISSUED FOR TENDER		
BEFORE PROCEEDING WITH CONSTRUCTION.	NO.	REVISIONS		

B.M. ELEV.			KGS			ENGINEER'S SEAL	
-				GROU CONSULTII ENGINEE	P		DE OF MANUTO
				DESIGNED BY	MAP	CHECKED BY	WILLIAMS Member
				DRAWN BY	EAG	APPROVED BY W.	AND ESSION
	1 RE-ISSUED FOR TENDER 0 ISSUED FOR TENDER	17/04/24	N.A	HOR. SCALE: VERTICAL:	AS NOTED AS NOTED	RELEASED FOR CONSTRUCTION:	CONSULTANT DRAWING
N	O. REVISIONS	DATE	BY	DATE	16/08/17	DATE	16-0107-01



Winnipeg PROJECT TITLE

4R WINNIPEG DEPOT EAST WINNIPEG COMMUNITY RESOURCE RECOVERY CENTRE

HHW BUILDING HVAC PLAN

SHEET OF 23 41 COMPUTER FILE NAME 16-0107-010 CITY DRAWING NUMBER M02