

1
M0003
MECHANICAL HVAC SCHEMATIC DIAGRAM
N T S

MECHANICAL SYMBOLS	
	RECTANGULAR DUCT
	ROUND DUCT
	SQUARE ELBOW TURN (SUPPLY UP/DOWN) SQUARE ELBOW TURN (RETURN UP/DOWN) SQUARE ELBOW TURN (EXHAUST UP/DOWN)
	ELBOW, ROUND, SMOOTH RADIUS (UP/DOWN)
	TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH, SQUARE TO ROUND
	ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (1.5 R/W DEFAULT) ELBOW, ROUND, SMOOTH RADIUS (1.5 R/W DEFAULT)
	ELBOW, RECTANGULAR, MITERED WITH TURNING VANES
	ELBOW, 90 DEG., RECTANGULAR WYE
	TRANSITION, RECTANGULAR, PYRAMIDAL (30° CONTRACTUAL ANGLE DEFAULT) TRANSITION, RECTANGULAR, SIDE (30° CONTRACTUAL ANGLE DEFAULT)
	THERMOSTAT
	SWITCH
	GRILLES (RETURN / SUPPLY)
	AIR FLOW ARROWS
	BALANCING DAMPER
	HORIZONTAL UNIT HEATER (REFER TO SCHEDULE)
	AIRFLOW TAG (REFER TO SCHEDULE)
	QUANTITY TYPE (REFER TO SCHEDULE)
	EQUIPMENT TAG
	BACK DRAFT DAMPER
	MOTORIZED DAMPER
	NATURAL GAS
	PIPE BREAK
	FLOW ARROW
	PIPING ELBOW DOWN
	PIPING ELBOW UP
	PIPING TEE UP
	PIPING TEE DOWN
	PIPING TEE
	GATE VALVE
	SWING GATE CHECK VALVE
	BALL VALVE
	BALANCING VALVE
	RELIEF (R) OR SAFETY (S) VALVE
	PUMP
	3-WAY CONTROL VALVE
	2-WAY CONTROL VALVE
	THERMOMETER
	PRESSURE GAUGE
	SLAB TEMPERATURE SENSOR
	SNOW/ICE SENSOR
	TEMPERATURE SENSOR

WARNING
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 140/92 FOR DETAILS

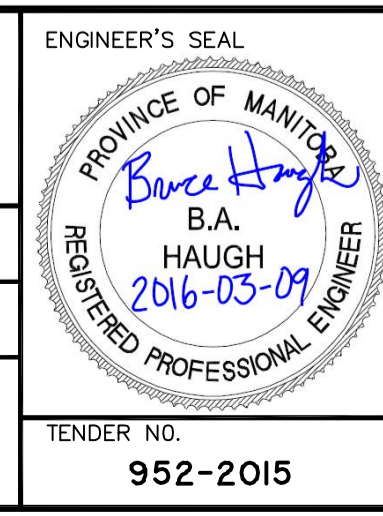
METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. ELEV.
SUPV. U/G STRUCTURES COMMITTEE	DATE	
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 OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.		
NO.	REVISIONS	DATE BY
3	ISSUED FOR TENDER	16.03.09 B.H.
2	ISSUED FOR TENDER REVIEW	16.03.07 B.H.
1	ISSUED FOR 95% REVIEW	16.01.29 B.H.

Stantec
500-311 Portage Ave, Winnipeg MB Canada
www.stantec.com

DESIGNED BY	G.V.	CHECKED BY	B.H.
DRAWN BY	G.V.	APPROVED BY	S.K.B.
HOR. SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION:	
VERTICAL:		DATE	2016.01.12.



THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

Winnipeg

NORTH END SEWAGE TREATMENT PLANT (NEWPC) HAULED LIQUID WASTE FACILITY PHASE II UPGRADE

HAULED WASTEWATER BLDG. NO.2 MECHANICAL HVAC SCHEMATIC DIAGRAM

TENDER NO.	952-2015	CITY DRAWING NUMBER	I-010IX-M0003-001	SHEET	3	OF	4
------------	----------	---------------------	-------------------	-------	---	----	---

V:\1112\active\111216000\0300_drawing\0302_sheet_files\07_mechanical\1-010IX-M0003-001-00.dwg
2016/03/09 11:18 AM By: S.K.B. - Owner