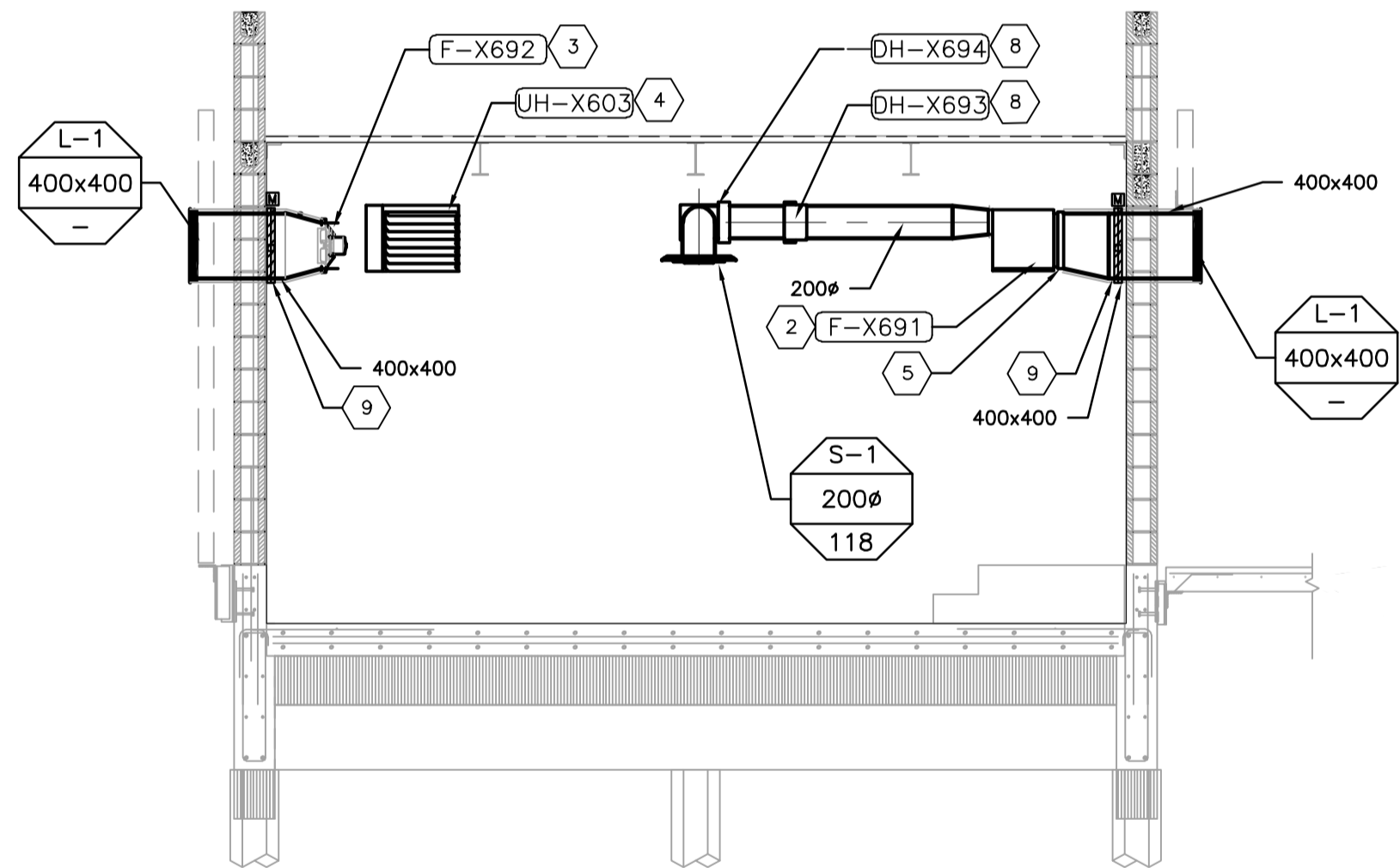


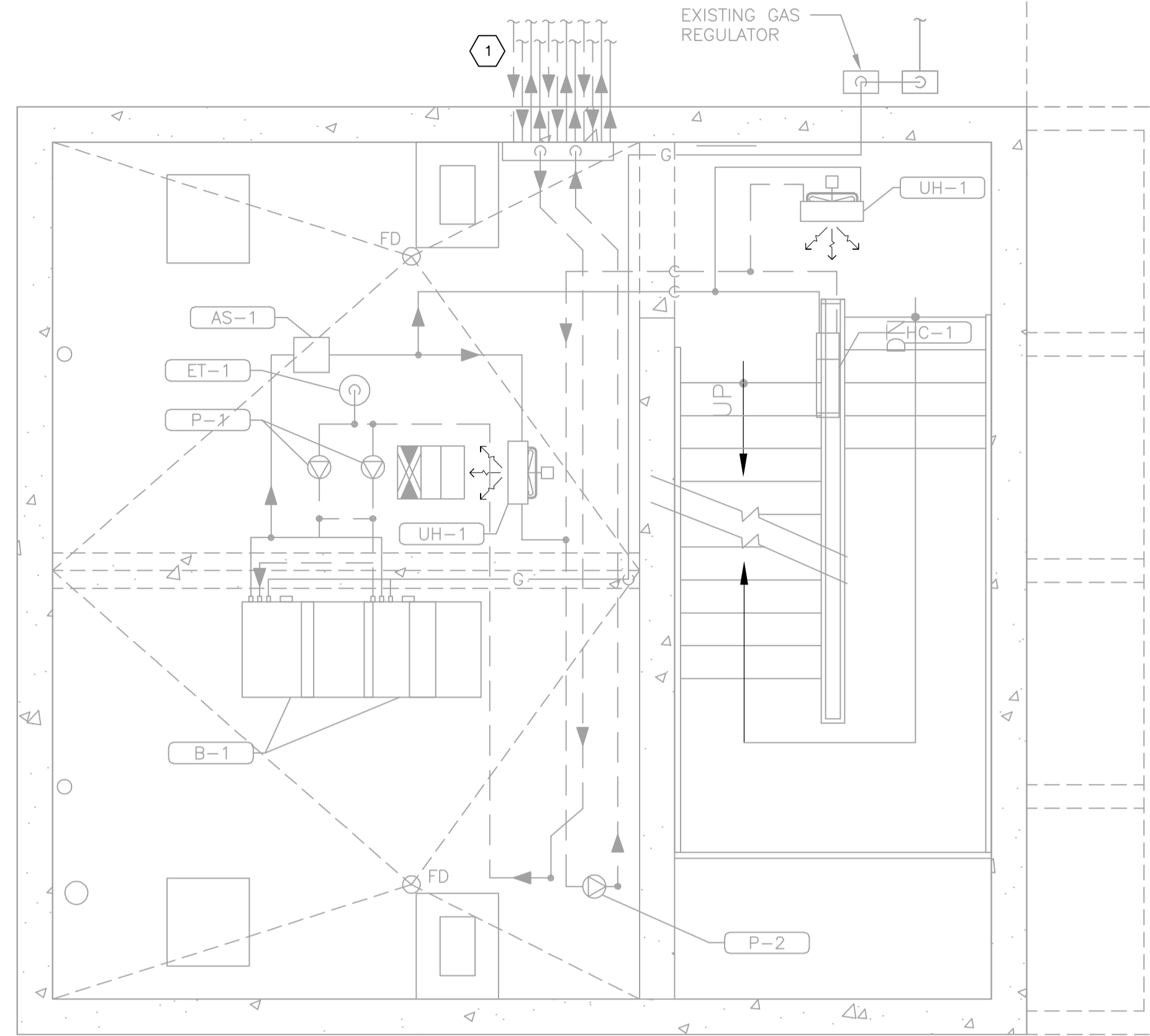
1 PROPOSED LEACHATE SAMPLING BUILDING  
MECHANICAL HVAC PLAN

M0002 1:40



2 PROPOSED LEACHATE SAMPLING BUILDING  
MECHANICAL HVAC SECTION

M0002 1:40



3 EXISTING HAULED WASTEWATER BLDG. No. 2  
(FORMERLY LEACHATE RECEIVING BLDG.)  
MECHANICAL HVAC CONNECTION PLAN

M0002 1:40

CONSTRUCTION NOTES:

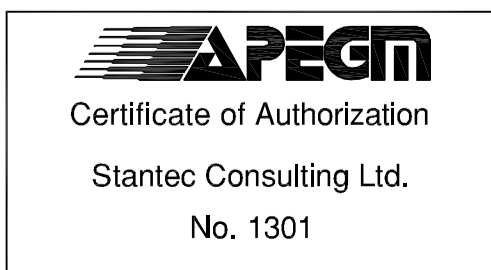
- 1 INSTALL AND CONNECT INSULATED TUBING, TO MH-7 SLAB CONNECTION VAULT AND "HAULED WASTEWATER BUILDING No.2" CONNECTION, FORMERLY CONNECTED TO MH-5 SLAB. SEE MECHANICAL HVAC SCHEMATIC DIAGRAM FOR MORE DETAILS.
- 2 NEW SUPPLY FAN. INSTALL PER MANUFACTURER'S RECOMMENDATION. REFER TO EQUIPMENT SCHEDULE AND SPECIFICATION.
- 3 NEW EXHAUST FAN. INSTALL PER MANUFACTURER'S RECOMMENDATION. REFER TO EQUIPMENT SCHEDULE AND SPECIFICATION.
- 4 NEW UNIT HEATER. INSTALL PER MANUFACTURER'S RECOMMENDATION. REFER TO EQUIPMENT SCHEDULE AND SPECIFICATION.
- 5 25MM (1") MERV 8 PLEATED FILTER AND FILTER HOLDER.
- 6 THERMOSTAT FOR UNIT HEATER (UH-X603). PROVIDE 50mm RIGID INSULATION TO BETWEEN EXTERIOR WALL.
- 7 SWITCH TIMER FOR SUPPLY FAN (F-X691) AND EXHAUST FAN (F-X692).
- 8 NEW ELECTRIC DUCT HEATER WITH BUILT-IN SCR CONTROLS. INSTALL PER MANUFACTURER'S RECOMMENDATION. REFER TO EQUIPMENT SCHEDULE AND SPECIFICATION.
- 9 400x400 THERMALLY BROKEN MOTORIZED DAMPER W/ END SWITCH.

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)
	QUANTITY TYPE SIZE (mm) VOLUME (L/s) AIRFLOW TAG (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

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.

B.M. ELEV.	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: DATE
VERTICAL: DATE 2016.01.12.	DATE

ENGINEER'S SEAL  
PROVINCE OF MANITOBA  
B.A. HAUGH  
2016-03-07  
REGISTERED PROFESSIONAL ENGINEER

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

Winnipeg

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

LEACHATE SAMPLING AND HAULED WASTEWATER BUILDING 2  
MECHANICAL HVAC FLOOR PLAN

TENDER NO. 952-2015  
CITY DRAWING NUMBER I-O10IX-M0002-001  
SHEET 2 OF 4

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