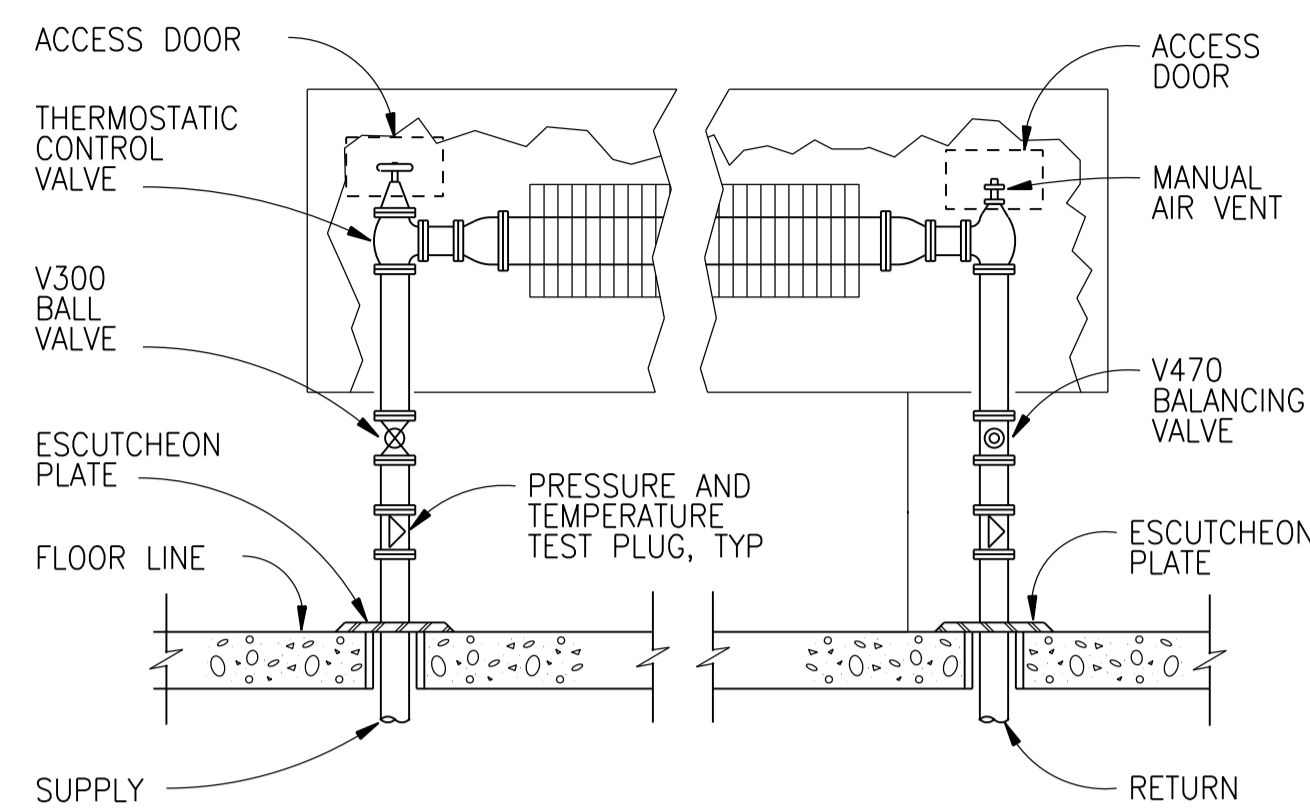


- NOTES:**
1. DETAIL GIVES REQUIRED SEQUENCE OF EQUIPMENT AND VALVES. PIPING ARRANGEMENT MAY VARY TO SUIT FIELD REQUIREMENTS.

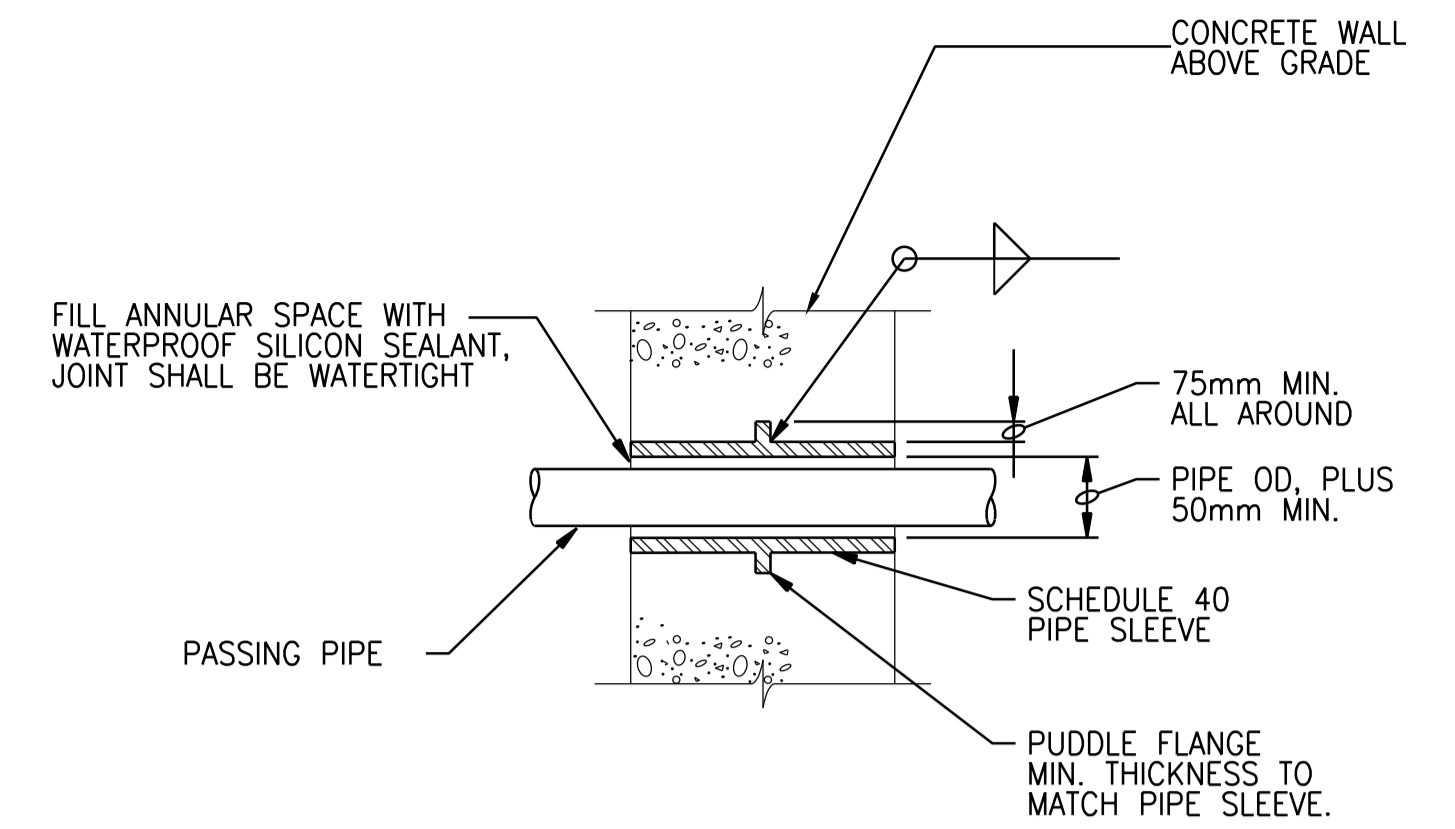
**HORIZONTAL UNIT HEATER CONNECTION**  
NTS

2380-436



**FINNED TUBE CONVECTOR CONNECTION**  
NTS

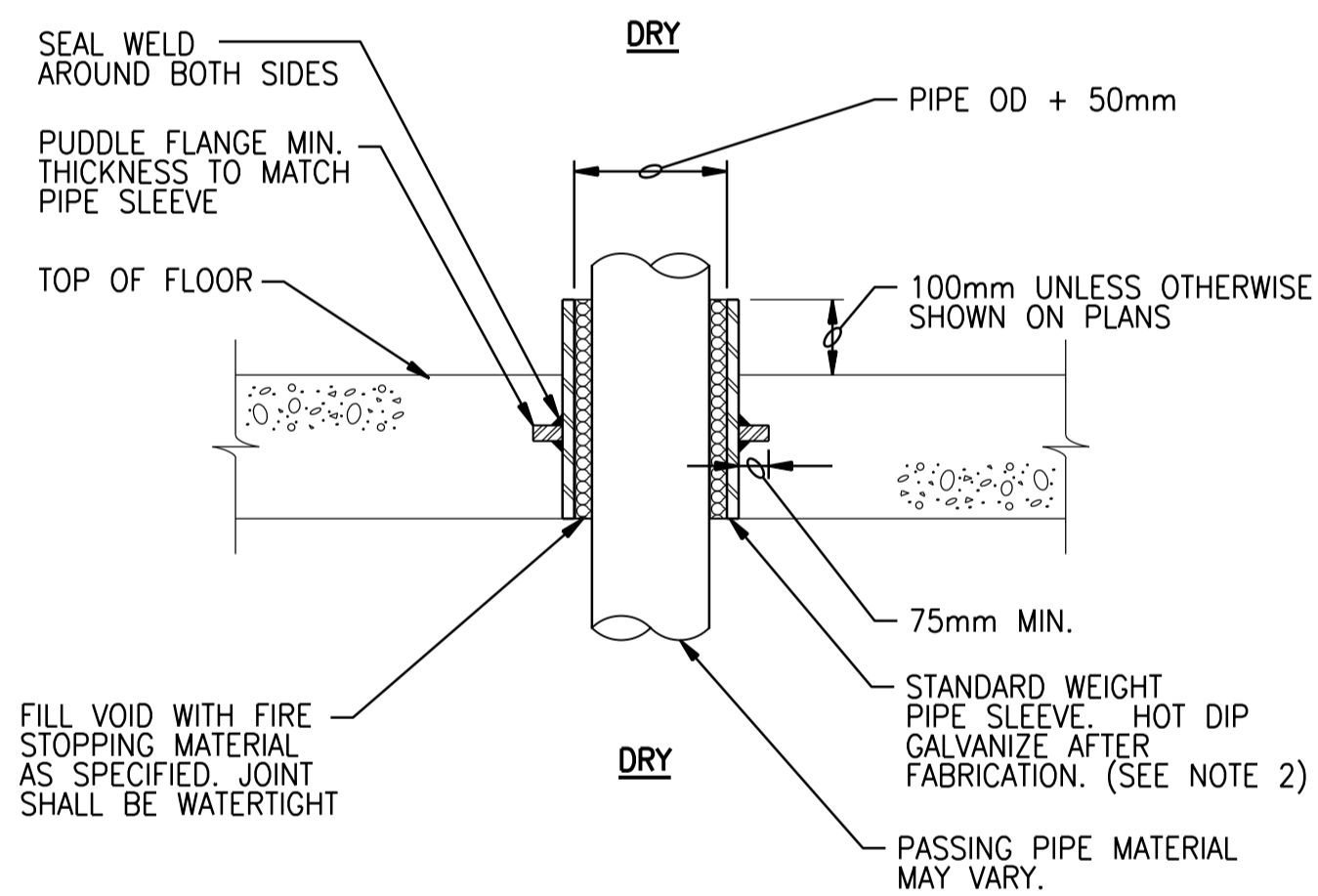
2380-501



- NOTES:**
1. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
  2. DO NOT USE WHERE SUBJECT TO HYDROSTATIC PRESSURE. PAINT ENTIRE SLEEVE AND PUDDLE FLANGE AS SPECIFIED, PRIOR TO CONCRETE PLACEMENT.
  3. ALL PIPE SUPPORT COMPONENTS SHALL BE DESIGNED AND FABRICATED FROM STAINLESS STEEL MATERIAL, UNLESS NOTED OTHERWISE.
  4. SEE ALSO ARCHITECTURAL DETAIL 4 ON DWG. 1-0102-BDTL-A003.
  5. USE STAINLESS STEEL 316L PIPE SLEEVE FOR STAINLESS STEEL PIPES.
  6. USE CARBON STEEL EPOXY COATED FOR ALL OTHERS PIPE MATERIALS.
  7. REFER TO ARCHITECTURAL DETAILS FOR PENETRATION OF FINISHED WALL.

**PIPE SLEEVE THRU EXTERIOR CONCRETE WALLS ABOVE GRADE**  
NTS

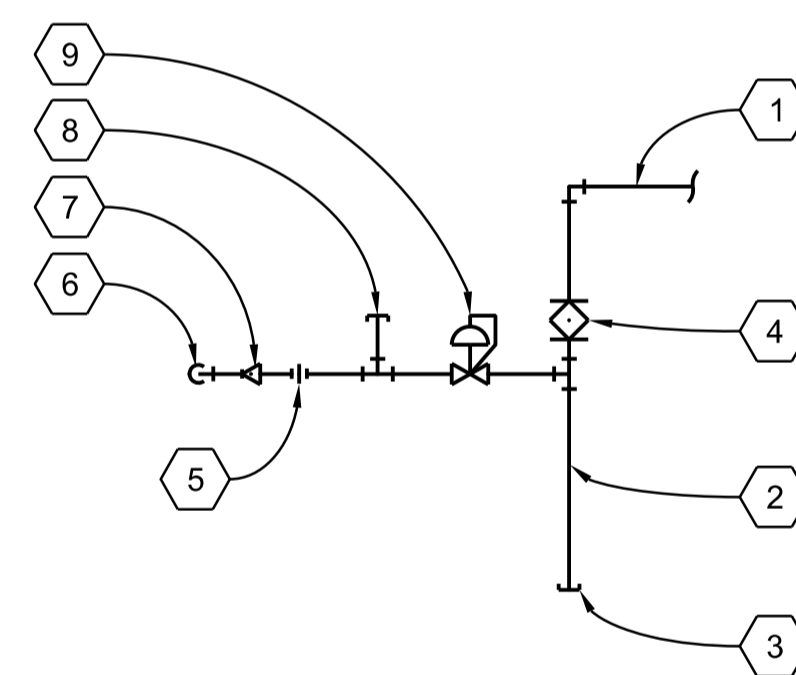
4027-604



- NOTES:**
1. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
  2. COAT FLOOR SLEEVE WITH SPECIFIED PAINT SYSTEM PRIOR TO CONCRETE PLACEMENT.
  3. ALL PIPE SUPPORT COMPONENTS SHALL BE DESIGNED AND FABRICATED FROM STAINLESS STEEL MATERIAL, UNLESS NOTED OTHERWISE.

**FLOOR SLEEVE (DRY)**  
NTS

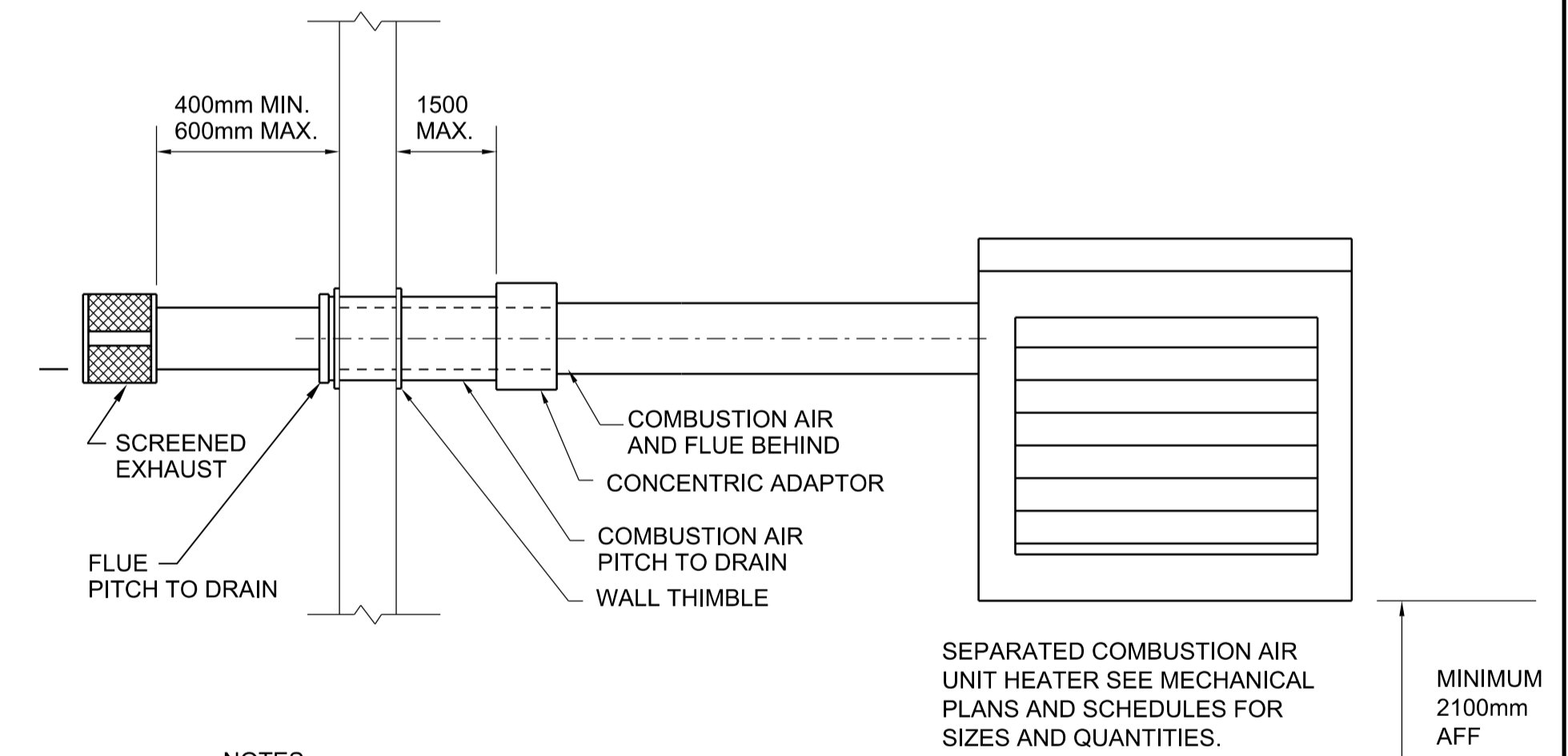
4027-620



1. FROM NATURAL GAS DISTRIBUTION SYSTEM, SIZE AS SHOWN ON PLANS
2. 6" LONG DIRT LEG LOCATED AS CLOSE TO INLET OF EQUIPMENT AS POSSIBLE.
3. REMOVABLE CAP
4. PLUG VALVE V420, LOCATED CLOSE TO INLET SIDE OF DIRT LEG TEE
5. GROUND JOINT UNION
6. CONNECT TO EQUIPMENT GAS TRAIN, INCLUDING 316 SST FLEXIBLE CONNECTOR OR RIGID PIPE FOR 1" DIA AND LARGER CONNECTIONS, TYP
7. TRANSITION TO UNIT CONNECTION SIZE AS REQUIRED
8. 1/8" NPT PLUGGED TAPPING ACCESSIBLE FOR TEST GAUGE CONNECTION
9. GAS PRESSURE REGULATOR

**GAS FIRED EQUIPMENT CONNECTION**  
NTS

2210-801



- NOTES:**
1. PROVIDE DRIP LEG ON GAS SUPPLY LINE AND SHUT-OFF BALL VALVE FOR GAS SERVICE
  2. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL SUPPORT OF UNIT HEATERS IN PROCESS TREATMENT BUILDING.
  3. PROVIDE DRIP LEG ON COMBUSTION AIR AND EXHAUST AIR LOW POINT WHEN UNIT HEATER COMBUSTION AIR/ EXHAUST HOOKUP ELEVATION IS LOWER THAN THE COMBUSTION AIR/ EXHAUST PIPE AT WALL PENETRATION.

**GAS FIRED UNIT HEATER DETAIL**  
NTS

2355-426



NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER - B.O. 899-2015	01/2016	K.F.	J.C.

**CH2MHILL**  
SNC-LAVALIN

DESIGNED BY: D. LE  
DRAWN BY: K. FONG  
SCALE: NTS  
DATE: 2016/01/29

CHECKED BY: T. TRAN  
APPROVED BY: H.T. FREIHAMMER  
ISSUED FOR CONSTRUCTION BY: T. TURZAK  
DATE: 2016/01/29

CONSULTANT NO.: 474248

ENGINEER'S SEAL

PROVINCE OF MANITOBA  
REGISTERED PROFESSIONAL ENGINEER  
D.H. LE  
Member  
31604

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

SOUTH END WATER POLLUTION CONTROL CENTRE  
SEWPPC UPGRADE/EXPANSION PROJECT  
MECHANICAL  
HVAC  
STANDARD DETAILS (4)

CITY DRAWING NUMBER: 1-0102-MDTL-A008  
SHEET: 00  
REV: A1  
SIZE: A1