

FORM "M" MECHANICAL SUBTRADE LIST

CONTRACTOR

PROJECT: Expand Existing Biomass Heat System from Whitehorse Corrections Centre to Two Nearby Buildings

Mechanical contractors are to complete the following subtrade list and include a copy of it within the main envelope submitted through the Bid Depository. The list represents the Contractor and subcontractors that will be used to complete various portions of the Mechanical work on the project.

All Divisions and sections taken from Tender Specification Documents.

Each line is to be filled out with either the name of the Contractor or subcontractor to be used, or with an N/A (not applicable).

At the bottom of form M is the list of exclusions that are not the responsibility of the mechanical contractor. The work or services excluded below only apply for the purposes of the Bid Depository process, and do NOT apply to the procurement by the Owner. General Contractors are still solely responsible for and must include the full cost and price of such work or services into its Bid or Proposal for the Owner.

TABLE "A"

	Name of Contractor	Subcontractor	Own Forces (if contractor will also be General Contractor. Indicate all employees of General Contractor who will be performing work with their corresponding certification number)
DIVISION 23 – HEATING, VENTILATION AND AIR CONDITIONING (HVAC)			
23 05 00 Common Work Results for HVAC			
23 05 02 Pipework Testing			
23 05 03 Mechanical Start-Up			
23 05 13 Common motor requirements for hvac equipment			

23 05 15 Common Installation Requirements for HVAC Pipework			
23 05 19.13 Thermometers and pressure gauges -piping systems			
23 05 23.01 Valves -Bronze			
23 05 23.02 Valves -Cast Iron			
23 05 23.05 Valves -Butterfly			
23 05 29 Hangers and Supports for HVAC Piping and Equipment			
23 05 48 Vibration and Seismic Controls for HVAC			
23 05 53 Identification for HVAC Piping and Equipment			
23 05 93 Testing, Adjusting and Balancing for HVAC			
23 07 19 HVAC Piping Insulation			
23 08 02 Cleaning and Start-up of Mechanical Piping Systems			
23 08 13 Performance Verification for HVAC Systems			
23 21 13.01 Hydronic Systems: Copper			

23 21 13.02 Hydronic Systems: Steel			
23 21 14 Hydronic Specialties			
23 21 23 Hydronic pumps			
23 25 00 HVAC Water Treatment			
23 57 00 Heat Exchangers for HVAC			
DIVISION 25 Integrated Automation			
SECTION 25 05 01 EMCS: General Requirements			
SECTION 25 01 12 EMCS: Training			
SECTION 25 05 01 EMCS: General Requirements			
SECTION 25 05 02 EMCS: Submittals & Review Process			
SECTION 25 05 03 EMCS: Project Record Documents			
SECTION 25 05 54 EMCS: Identification			
SECTION 25 08 20 EMCS: Warranty and Maintenance			

SECTION 25 10 01 EMCS: Local Area Network (LAN)			
SECTION 25 10 02 EMCS: Operator Work Station (OWS)			
SECTION 25 30 01 EMCS: Building Controllers			
SECTION 25 30 02 Field control devices			
SECTION 25 90 01 Site requirements, applications and systems sequences of operation			

COMMON EXCLUSIONS FOR ALL TRADE SECTIONS AND DIVISIONS

- temporary power, heat, water, sanitation, barriers
- heating and hoarding
- onsite first aid
- final cleaning
- initial removal of snow and ice
- fees or cash allowances for service connections unless specified in the trade section
- on site security, if specified
- testing unless specified in the trade section
- provision of gridlines and benchmarks on each level
- repairs to damage by others after completion and acceptance of the work
- temporary lighting unless specifically detailed on the electrical drawings that are part of the *Bid* for Division 2 work
- provision of garbage/refuse/recyclable containers and their removal (including disposal fees), except the *Trade Contractor* shall be responsible for removal from the site of demolition materials, hazardous materials and drywall
- cost for a reasonable number of copies of all *Project Documents* where not provided by the *Owner*
- temporary dust control and/or ventilation systems required as a project specified environmental condition for the entire project. Note: where it is a requirement to meet the needs of one specific *Trade Contractor* and specified thus, then that *Trade Contractor* shall be responsible to include for the cost of this work.

DIVISION 1 – MECHANICAL (and related Sections/Divisions)

- outside service piping not shown or specified in the Division 1 plans or specifications, fittings, precast concrete and related
- work beyond one meter of the building, with the exception of gas line from the gas meter to the building
- excavation, compaction, backfilling, dewatering (except where required for geothermal heat pump systems)
- line voltage wiring or control (over 24 volt) unless specified in this section
- painting when specified in Section 09900 Painting
- pipe bollards
- asbestos abatement unless specified in this section
- asbestos abatement when also specified in another section
- cutting, patching unless due to error by this trade (except in-ground coring or drilling for geothermal heat pump systems)
- concrete work
- furring and backing
- filter fabric and drain rock
- weeping tile and/or footing drains and their cleanout risers including the cleanout
- seismic restraint, seismic restraint design, approval or seals unless specified in this section
- thermal concrete used for duct insulation (zonolytic concrete)
- buried corrugated metal culvert piping or tanks constructed of corrugated metal culvert
- non-plumbing pipe rain water leaders such as hollow steel sections (hss)
- removal of existing outside site service piping and underground piping except petroleum fuel pipes and tanks when specified in this division
- perforated piping/weeping tile drainage systems (such as for playing fields)
- x-rays for cutting, coring, patching unless due to error by this trade