FORM "M" MECHANICAL SUBTRADE LIST

CONTRACTOR

PROJECT: CARMACKS ARENA AND REC CENTRE

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 21 – FIRE SUPPRESSION			
21 12 10 Portable Fire Extinguishers			
DIVISION 22 - PLUMBING			
22 05 00 - Common Work Results For Plumbing			
22 05 15 - Plumbing Specialties And Accessories			

22 10 10 - Plumbing Pumps		
22 11 16 - Domestic Water Piping		
22 13 16.16 - Sanitary Waste And		
Vent Piping - Plastic		
22 15 00 - General Service		
Compressed Air Systems		
22 33 00 - Domestic Water Heaters		
22 42 10 - Plumbing		
22 42 13 - Commercial Water		
Closets, Urinals, And Bidets		
22 42 16 - Commercial Lavatories		
And Sinks		
22 42 19 - Commercial Bathtubs		
And Showers		
DIVISION 23 – HEATING,		
VENTILATION AND AIR CONDITIONING (HVAC)		
23 05 00 - Common Work Results		
For HVAC		
23 05 10 - Mechanical General		
23 03 10 - Wicchamear General		
23 05 13 - Common Motor		
Requirements For HVAC		
Equipment		

23 05 15 - Common Installation Requirements For HVAC Pipework		
23 05 19 - Meters And Gauges For HVAC Piping		
23 05 19.13 - Thermometers And Pressure Gauges - Piping Systems		
23 05 29 - Hangers And Supports For HVAC Piping And Equipment		
23 05 48 - Vibration And Seismic Controls For HVAC		
23 05 50 - Identification		
23 05 90 - Testing, Adjusting and Balancing (TAB)		
23 07 10 - Thermal Insulation for Piping		
23 07 13 - Thermal Insulation for Ducting		
23 07 15 - Thermal Insulation for Equipment		
23 07 19 - HVAC Piping Insulation		
23 08 00 - Commissioning of HVAC Systems		
23 08 13 - Performance Verification HVAC Systems		
23 08 16 - Cleaning And Start-Up Of HVAC Piping Systems		

23 11 13 - Facility Fuel Oil Piping		
23 20 20 - Heating		
23 21 13.02 - Hydronic Systems:		
Steel		
23 21 16 - Hydronic Piping		
Specialties		
22 21 22 H-J: Dyman		
23 21 23 - Hydronic Pumps		
23 25 00 - HVAC Water Treatment		
23 31 13.01 - Metal Ducts: Low		
Pressure To 500 Pa		
23 33 00 - Air Duct Accessories		
23 33 10 - Ventilation		
23 33 10 Ventuation		
23 33 14 - Dampers: Balancing		
23 33 15 - Dampers: Operating		
25 55 15 Sumpers. Sperunng		
23 33 16 - Dampers: Fire And		
Smoke		
23 33 46 - Flexible Ducts		
20.20.70		
23 33 53 - Acoustic Duct Lining		1

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23 34 00 - HVAC Fans	I		
	I		
23 35 16 - Engine Exhaust Systems			
23 33 10 - Eligine Exhaust Systems	I		
	I		
23 37 13 - Diffusers, Registers And			
Grilles	I		
23 37 20 - Louvres, Intakes And	 		
Vents	I		
25.51.00	 		
23 51 00 - Breeching, Chimneys	I		
And Stacks	I		
23 52 00 - Heating Boilers			
23 32 00 - Heating Doners	I		
	I		
23 57 00 - Heat Exchangers For			
HVAC	I		
	_		
23 60 00 - Ice Plant	I		
	I		
22.72.00 A: T. Air France			
23 72 00 - Air-To-Air Energy	I		!
Recovery Equipment	I		!
23 82 36 - Finned Tube Radiation			
Heaters	I		
23 82 39 - Unit Heaters			
	I		
22.22.22			
23 83 00 - Hydronic Radiant	I		
Heating Units	I		
DIVISION 25 – INTEGRATED			
AUTOMATION	I		
ACTOMATION	I		
25 01 11 - EMCS: Start-Up,			
Verification And Commissioning	I		
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25 01 12 - EMCS: Training		
	1	
25.25.21 EMGG G		
25 05 01 - EMCS: General		
Requirements		
25 05 02 - EMCS Submittals and	1	
Review Process	1	
Review 1 10ccss		
25 05 03 - EMCS : Project Record		
Documents		
25 05 10 - Controls		
25 05 54 - EMCS: Identification	1	
25 05 54 EMCS. Identification		
25 05 60 - EMCS: Field Installation		
	1	
25 10 02 FMCC O / W 1		
25 10 02 - EMCS: Operator Work	1	
Station (Ows)	1	
25 30 01 - EMCS: Building	1	
Controllers	1	
25 30 02 - EMCS: Field Control	1	
Devices	1	
25 90 01 - EMCS: Site		
Requirements, Applications And	1	
Systems Sequences Of Operation	1	
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	1	
	1	

COMMON EXCLUSIONS FOR ALL TRADE SECTIONS AND DIVISIONS

- temporary power, heat, water, sanitation, barriers
- heating and hoardingonsite 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