



Parks, Forestry and Recreation
Howie Dayton, Acting General Manager

Parks Development & Capital Projects

Memorandum

Cristian Lukaszuk
Senior Project Manager
Tel: 416-392-8156
email: cristian.lukaszuk@toronto.ca

VIA EMAIL

September 15, 2023

(1 of 4 pages)

ADDENDUM No. 3
ROSTER WORK ASSIGNMENT No.: 23-PFR-CAP-GC-008 ROSTER REOI
No.: 3907-19-5003

For: the supply of all materials, equipment, labour and supervision necessary for the project:

Eastville Training Centre – Electrical Upgrades

Please refer to the above Roster Work Assignment Request for Quotation (RFQ) document in your possession, and be advised of the following:

GENERAL:

1. Provide price as listed in the revised pricing form for added mechanical scope of work as per attached Drawing M1 & M2.
2. Electrical Contractor shall provide power connection to outdoor condensing unit, CDU-1 c/w local disconnect switch. Feed from new 30A-2P breaker in Existing Panel P2 and wiring of 2#10 RW90+G in ¾" C. Provide power connections & wiring in ¾" c conduits to indoor AC Units and corresponding condensate pumps from outdoor condensing unit.
3. Revised pricing sheet:



ROSTER WORK ASSIGNMENT REQUEST FOR QUOTATION

REQUEST FOR QUOTATION PRICING FORM

TO: CITY OF TORONTO

RE: _____

Submitted by: (Company) _____

Contact Name: _____

1. PRICING (See Instructions to Bidders, Section 5.0 Submission/Response Requirements)

- .1 The Bidder agrees to supply all labour, materials, products, equipment, tools, machinery and freight to perform the services herein described for the following prices.
- .2 The City of Toronto may, at its discretion, include or exclude items from the Tender, both prior to the issuance of a Purchase Order and during the construction period.
- .3 Contractors are responsible for confirming all quantities.
- .4 The Total Stipulated Price is composed of:

- 1.0 - General Requirements \$ _____
- 2.0 – Fire Alarm System \$ _____
- 3.0 – Emergency Lighting System \$ _____
- 4.0 – Cash Allowance \$ 30,000 _____

Sub Total * \$ _____

**Transfer this amount into the space provided on page 2 of the Request for Quotation*

HST \$ _____

TOTAL STIPULATED PRICE* \$ _____

▪ **Separate Price:**

Refer to attached drawings and specifications Addendum #3

Air conditioning (City to determine if to include/or not). \$ _____

4. Following are answers to questions posed by bidder(s)

Question 1: In order to provide the below mentioned, please let me know the location of Demarcation Box & New Fire Alarm Monitoring Panel.

PROVIDE THREE (3) PAIRS OF FAS90 (MIN. #18AWG) IN 1/2" C TO DEMARCATION BOX (SUPPLIED & INSTALLED AS PER CAN/ULC-561 UNDER THIS CONTRACT) FOR FIRE ALARM MONITORING. CONNECT TO NEW FIRE ALARM MONITORING PANEL TO ULC-S561 & LEVEL 2 SERVICE REQUIRED BY ONTARIO BUILDING CODE (3.2.4.7(4)) AND TO BE PROVIDED BY BUILDING OWNER. PROVIDE DEDICATED 15A, 120VOLT BRANCH CIRCUIT FROM PANEL P2. PROVIDE 1 x CATEGORY 5E FT6 CABLE IN 3/4" C TO TELEPHONE SERVICE AND 1 x CATEGORY 6 FT6 CABLE IN 3/4" C TO DATA RACK IN THE BUILDING. CONFIRM LOCATION ON SITE.

Answer 1: Demarcation Box & New Fire Alarm Monitoring Panel shall be located adjacent to new fire alarm control panel in Electrical Room.

Question 2: As per the below mentioned notes, I don't see any Duct mounted smoke detector, return fans & exhaust fans in the plan.

PROVIDE FIRE ALARM SHUTDOWN SIGNAL TO ALL SUPPLY AND RETURN FANS AND EXHAUST FANS SERVING MULTIPLE SPACES UPON GENERAL FIRE ALARM. DRAWING DOES NOT SHOW ALL EQUIPMENT. INCLUDE FOR SHUTDOWN SIGNAL FOR AN ADDITIONAL FIVE (5) SUCH EQUIPMENT.

PROVIDE FIRE ALARM SHUTDOWN SIGNAL TO SUPPLY AIR UNIT UPON ACTIVATION OF DUCT MOUNTED SMOKE DETECTOR AND GENERAL ALARM.

Answer 2: No duct smoke detectors are required for the project. For FA Shutdown Signal, Rooftop AC Unit is located approximately above Main Entry Area 1-02 and two (2) rooftop exhaust fans above Area 1-16 & 1-17.

Question 3: Please confirm that the main electrical room mentioned in below note is same as the Electrical Room shown in the plan.

PROVIDE 15A, 120V, POWER CONNECTION FOR FIRE ALARM CONTROL PANEL FROM EXISTING 15A-1P LOCKABLE BREAKER (PAINTED RED) IN 120/208V DISTRIBUTION PANEL IN MAIN ELECTRICAL ROOM.

Answer 3: Yes, it is the Electrical Room 1-65.

In lieu of 15A,120V power connection from existing 15A-1P lockable breaker, provide power connection for new fire alarm control panel from new dedicated 15A-1P breaker in Existing Panel P2 (Located in Corridor 1-37). For fire alarm monitoring panel provide power connection from new dedicated 15A-1P breaker in Existing Panel P2.

Question 4: Also need this info:

Please provide:

- Ceiling Height?
- Telephone Service location?
- Data Rack location?

Answer 4: Drop ceiling levels vary from 8'-0" AFF to 11'-0" AFF in various areas. The number of areas have no drop ceiling Roof deck levels vary from 10'-0" to 16'-0". Bidder shall review notes from pre-tender walkthrough. Visit site to verify details, prior to bidding as required.

Telephone Service is in Office 1-04.

Wall mounted data cabinet is in Storage 1-49.

Question 5: Who is the base building contractor?

Answer 5: There is no base building contractor.

Question 6: What are the working hours for this project?

Answer 6: Building regular operating hours are from 8:00am to 5:00pm, Monday to Friday. Noisy and other work that interferes with the building operation shall be undertaken after hours. Successful Contractor shall coordinate and cooperate with City staff during construction.

Question 7: Site walk for the electrical contractor was Mandatory? Can we still price this project?

Answer 7: The Mandatory site meeting was set for the specific date/time only. If a bidder was not in attendance for sign in, they may not submit a bid.

Question 8: Is it possible to have a site visit now as the tender closing extended to Sep 7?

Answer 8: If an additional site visit is necessary for a bidder, a request can be made in an addendum.

Question 9: All work will be done during normal operating hours?

Answer 9: See Answer 6.

Question 10: As per specs FACP should be Notifier. Can we price the entire system from the Notifier or are there any alternative manufacturers? (not enough detail on specs for manufacturer).

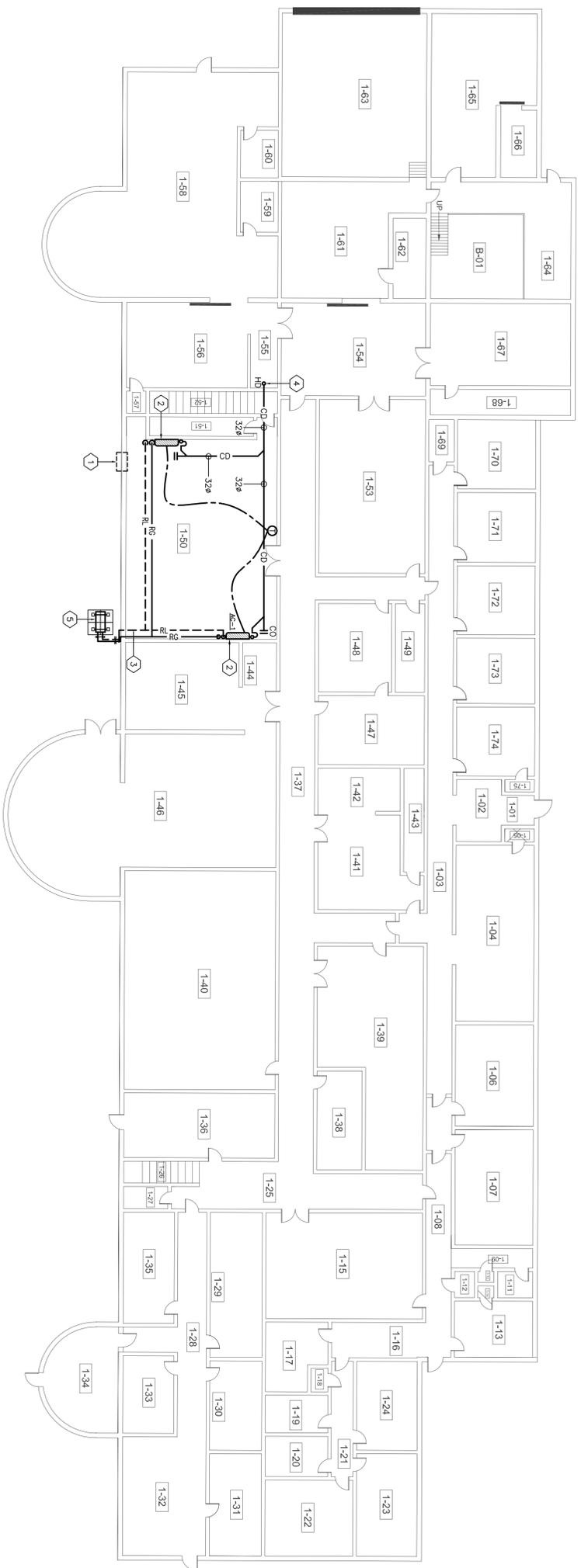
Answer 10: Equal or better product from alternative manufacturer Simplex and Mircom will be considered acceptable.

Should you have any technical questions regarding this Addendum, contact Cristian Lukaszuk at email: cristian.lukaszuk@toronto.ca

Attach this Addendum to your RFQ document for your records and be governed accordingly.

Bidders must acknowledge receipt of all Addenda in their quotation, in the space provided on page 2 of the RFQ Submission Form. All other aspects of the RFQ remain the same.

Cristian Lukaszuk, Senior Project Manager Parks
Development & Capital Projects Section Parks,
Forestry & Recreation
City of Toronto



- BEARING NOTES:**
- REMOVE THE EXISTING WINDOW AC UNIT. DISPOSE OF THE UNIT OFF SITE. MAKE GOOD EXISTING WINDOW OPENING AND PROVIDE GLASS PANE TO MATCH EXISTING.
 - PROVIDE NEW HI-WALL AC UNITS AS SCHEDULED C/W INTEGRAL CONDENSATE PUMPS MOUNTED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE NEW CONDENSATE PIPING. PROVIDE NEW REFRIGERANT PIPING AS SHOWN. COORDINATE EXACT LOCATION ON SITE WITH USER GROUP.
 - PROVIDE NEW REFRIGERANT PIPING TO THE OUTDOOR GRADE MOUNTED CONDENSING UNIT. PROVIDE INSULATION AND WHITE PVC COVER OVER THE PIPING. COORDINATE WITH EXISTING FINISHERS AND SERVICES.
 - PROVIDE NEW CONDENSATE DRAIN TO NEW HUB DRAIN AT HIGH LEVEL. IN OUTDOOR GRADE SPACE FROM HUB DRAIN PROVIDE 32# PIPE DOWN, THROUGH WALL AND CONNECT TO PIPING UPSTREAM OF P-TRAP SERVING THE SINK. ALLOW FOR BRILING THROUGH CABINETS AT HIGH LEVEL AND MTLWORK AND ADDITIONAL 10'-0" OF PIPING THAN SHOWN.
 - PROVIDE A NEW GRADE MOUNTED CONDENSING UNIT AS SCHEDULED. MOUNT UNIT ON NON-PENETRATING EQUIPMENT SUPPORT MOUNTED ON 4 NOS. OF 24"x24" CONCRETE PAVERS SECURE UNIT TO PAVERS. COMPACT GRADE UNDER THE PAVERS AND PROVIDE MINIMUM OF 12" DEEP GRAVEL BASE UNDER THE PAVERS.
 - PROVIDE NEW AC UNITS CONTROLLER.
 - ALL REFRIGERANT AND CONDENSATE PIPING SHALL BE ROUN CONCEALED AND ABOVE DRAIN CEILING WHERE POSSIBLE. REFRIGERANT PIPING SHALL BE ROUN CONCEALED AND ABOVE DRAIN CEILING WHERE POSSIBLE. CONDENSATE PIPING SHALL BE INSTALLED IN PVC W/REFRIG. RUN ALL PIPING IN STRAIGHT AND ESTHETIC MANNER. SHALL BE INSTALLED IN PVC W/REFRIG. RUN ALL PIPING IN STRAIGHT AND ESTHETIC MANNER.

1 TRAINING ROOM - SPLIT A/C UNIT ADDITION

M2 SCALE: 3/32"=1'-0"

INDOOR AIR CONDITIONING UNIT SCHEDULE

EQUIPMENT DESIGNATION	MANUFACTURER	MODEL NO.	UNIT WEIGHT (KG)	TOTAL GRN (LOW/HIGH)	AREA SERVED	HEATING CAPACITY	COOLING CAPACITY	GAS PIPE SIZE	LIQUID PIPE SIZE	CONDENSATE PIPE SIZE	CONTROLLED BY	VOLTAGE MOCP
AC-1	MITSUBISHI OR APPROVED EQUAL	PKY-F181MUU-E-TH	12.9	360/438	TRAINING ROOM	-	18.0 MBH	-	-	1/8"	BAS	208V-240V/1/9/60
AC-2	MITSUBISHI OR APPROVED EQUAL	PKY-F181MUU-E-TH	12.9	360/438	TRAINING ROOM	-	18.0 MBH	-	-	1/8"	BAS	208V/1/9/60 15A

- NOTES:**
- ALL UNITS ARE TO BE CONNECTED TO THE NEW OUTDOOR CONDENSING UNIT, CDU-1.
 - UNITS ARE TO BE OPERATED ONLY IN THE COOLING MODE.
 - CONDENSATE PUMP SHALL BE PROVIDED AND CONTROLLED VIA AN ELECTRONIC EXPANSION VALVE.
 - ALL UNITS ARE TO HAVE A RESIN NET, WASHABLE FILTER AND INTEGRAL CONDENSATE PUMP (POWERED FROM THE AC UNIT POWER SUPPLY, NOT A DEDICATED POWER SUPPLY).
 - NOTE THAT FOR THE AC SYSTEM, RG/RL PIPE SIZING SHALL BE OBTAINED FROM THE MANUFACTURER OF THE SELECTED SYSTEM AT THE TIME OF PRICING AND ALL COSTS AND ACCESSORIES REQUIRED FOR A FULLY OPERATIONAL SYSTEM SHALL BE INCLUDED FOR IN THE BASE TENDER PRICE.
 - IN THE TRAINING ROOM, PROVIDE A WALL-MOUNTED MANUFACTURER'S AC THERMOSTAT/CONTROLLER (SUPPLIED BY THE MANUFACTURER).
 - INSTALL EACH UNIT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR MOUNTING ON THE WALL. USE ONLY THE MANUFACTURER-APPROVED MOUNTING HARDWARE.

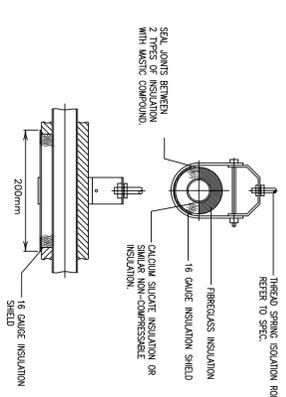
CONDENSING UNIT SCHEDULE

EQUIPMENT DESIGNATION	MANUFACTURER	MODEL NO.	UNIT SIZE	UNIT WEIGHT	UNIT TYPE	NO. OF MODULES	COOLING CAPACITY	HEATING CAPACITY	EEF	OPERATES WITH	COOLING REFRIGERANT	VOLTAGE MOCP
CDU-1	MITSUBISHI OR APPROVED EQUAL	PVY-438MK47	1,050 W. X 355 D X 1,338 H	121 KG	HEAT PUMP	1	36,000 BTU/HR	-	-	AC-1, AC-2	R410A	208V-240V/1/9/60 1 X 30A-2P

- NOTES:**
- COMPRESSOR STAGE FOR THE UNIT SHALL BE INVERTER.
 - CONTROL PAGES SHALL BE 1/32" THICK.
 - ALL PIPING SHALL BE DONE BY THE MANUFACTURER AT THE TIME OF SHOP DRAWING SUBMISSION. PROVIDE A COPY OF THE PIPE SIZING BASED ON THE DESIGN LAYOUT FOR THE CONSULTANT'S RECORDS. PIPE SIZE NOTED IN THE SCHEDULE ONLY REFERS TO THE CONNECTION SIZE TO EACH CONDENSING UNIT.
 - THE UNIT IS TO OPERATE ONLY IN THE COOLING MODE. UNIT WILL NOT BE USED FOR HEATING.
 - PROVIDE A NON-PENETRATING, EQUIPMENT SUPPORT WHICH MAINTAINS THE HEIGHT OF THE CONDENSING UNIT 450mm ABOVE THE GRADE LEVEL (MEASURED TO THE BOTTOM OF THE UNIT). SUPPORT SHALL BE FROM THE NEW AC SYSTEM. REFRIGERANT PIPING SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND AS NECESSARY FOR A FULLY OPERATIONAL SYSTEM.
 - ALL NECESSARY COMPONENTS (VALVES, FILTER DRYER, SIGHT GLASS, ETC.) AND INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND AS NECESSARY FOR A FULLY OPERATIONAL SYSTEM.

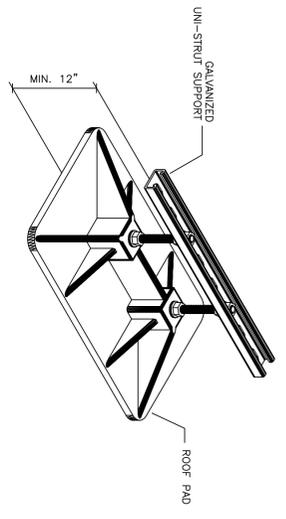
2 PIPE HANGER DETAIL

M2 SCALE: N.T.S.



3 PIPE & CONDUIT SUPPORT DETAIL

M2 SCALE: N.T.S.



VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN SHALL BE THE USER'S RESPONSIBILITY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.

No.	REVISION	DATE
1	ISSUED WITH ADDENDUM #1	AUG. 30, 23

Contractors shall verify all dimensions of the job.



Electrical Consultant
SURI & ASSOCIATES LTD.
 ENGINEERING CONSULTANTS

321 LAKESHORE ROAD WEST
 PO BOX 59522
 MISSISSAUGA, ONTARIO
 L4W 1G9
 T (905)-290-7861



Project
EASTVILLE TRAINING CENTRE
 1 EASTVILLE AVENUE,
 TORONTO, ONTARIO.

EMERGENCY LIGHTING & FIRE
 ALARM SYSTEM UPGRADE

NEW MECHANICAL WORK PLAN

Checked:	AB	Date:	AUG. 2023
Drawn:	SS	Scale:	
File Number:		Dwg Number:	M2 of 2