

October 21, 2024

(17 pages)

ADDENDUM NO. 3**BID CALL NO. T2024-276****ADDITION AND RENOVATION AT BRAMPTON MEMORIAL ARENA**

This Addendum is part of the Bid Document.

1. Pertaining to Specifications and Drawings:

Refer to attached Consultant Addendum No. 3 and 4 (Total 16 pages)

All other terms & conditions remain unchanged.

If you have any questions, please do not hesitate to contact the undersigned.

Bidders are required to acknowledge all Addenda.

Santosh Mishra, CSCMP
Senior Buyer, Purchasing, Corporate Services
Ph: 905-874-3482
Email: santosh.mishra@brampton.ca

ADDENDUM NO.03

The tender and contract documents for the Brampton Memorial Arena Expansion at 69 Elliot Street, Brampton, ON for the City of Brampton, are hereby amended as follows:

1.0 Bid Documents:

1.1 Architectural Drawings

1. **Delete** the previously issued drawings A0.2 and A2.0 to **Add** the attached drawings (Issued for Tender Addendum 3, R10 dated 2024.10.16)

2.0 Bid Questions:

2.1 **Question:** Please can you confirm if Site work under Division 31, 32 & 33 is part of this contract or not.

Answer: Yes, it's a part of this project. For detailed scope of civil work refer to the civil drawing package and specification.

2.2 **Question:** With regard to the stormwater treatment device (EF06 Stormceptor) could you kindly provide the following information:

- i. Stormwater Management Report including appendices with the specified product sizing report.
- ii. Storm sewer design sheet(s) indicating maximum (peak) flow that will convey through the storm treatment unit.
- iii. Environmental Compliance Approval or confirmation that project is under CLI-ECA.

If the specified product sizing report is not available could you please provide the following:

- i. Design area (Ha) and imperviousness for sizing the stormwater treatment unit.
- ii. Upstream flow controls and associated flow rate(s) (if applicable)
- iii. Particle size distribution (PSD) to be used for sizing the stormwater treatment unit.
- iv. Peak design flow and associated design storm (e.g., 5 yr, 10 yr etc.) at the location of the stormwater treatment unit.

Answer:

- i. Included in the FSR Appendix A
- ii. Included in the FSR Appendix B
- iii. Typically, an ECA application is required when we have service connections to municipal. We are not making any new connections. Sanitary and water are being completed internally to the building. Storm is being adjusted within the site area. We have not been requested to submit for ECA during our SPA approval so we believe that this would not be required.

2.3 **Question:** Door#107.2 Turf Storage door

The drawing shows a rolling steel insulated door with a motor operator. The door spec is for a sectional steel overhead door insulated. Please confirm which overhead door is required.

Answer: Refer answer 2.3, Addendum 2, issued October 11th, 2024.

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ADDENDUM NO.03

2.4 **Question:** Drawing A6.1 shows Gypsum Ceiling in BF Washroom A, room schedule on drawing A9.1 shows EXP ceiling. Please clarify. Change Room A on drawing A9.1 is noted to have Gypsum Board Ceiling, drawing A6.1 does not show gypsum ceiling in this room, please clarify.

Answer: Refer architectural drawing A9.2, R9 issued for Tender Addendum 2, October 11th, 2024.

2.5 **Question:**

- On Drawing CV-2 has notes on existing storm line to be abandoned / removed. Please advise if this line should be removed or abandoned as these are two different scopes of work with different costs.
- On drawing CV-2 is there any storm lines connected to MH#5? should they be removed or left in place? should they be capped? please clarify.
- On drawing CV-2, please confirm you require the asphalt in the parking lot area to be removed and reinstalled up to the dashed line to the west of the new addition. (~890 SM) What type / thickness of asphalt should be used there?

Answer:

- This line should be removed as there could be conflicts with the foundation
- Existing MH#5 is being relocated/reused. Line connecting to it can be removed as per dashed line in shown on CV2.
- Asphalt extents would be approximately up to the match existing line. Type and thickness would require confirmation from the geotechnical engineer.

2.6 **Question:** Please confirm the granular under the asphalt does not need to be removed and replaced

1. Per drawing#CV-2

Where the new EF06 Stormceptor to be installed, there was an existing pipe below not sure if this new or existing. Please clarify

2. Per drawing#CV-2

Where the existing sewer pipe is located underneath the existing Garage Enclosure foundation. To be able to re-work the slope of the pipe. We need to know what is the foundation made-up in order to allow the cost to rebuild the foundation. No information provided on the existing garage enclosure.

3. Per drawing#L1

There's no indication on the drawing to shown new asphalt paving. Provide notes or lines to show the new asphalt areas.

Answer: Based on the grading changes and the existing thickness of the asphalt, there may be adjustments required to the granular. I recommend getting the inputs from the Geotech regarding the compaction of the existing granular as it may be disturbed during asphalt removal.

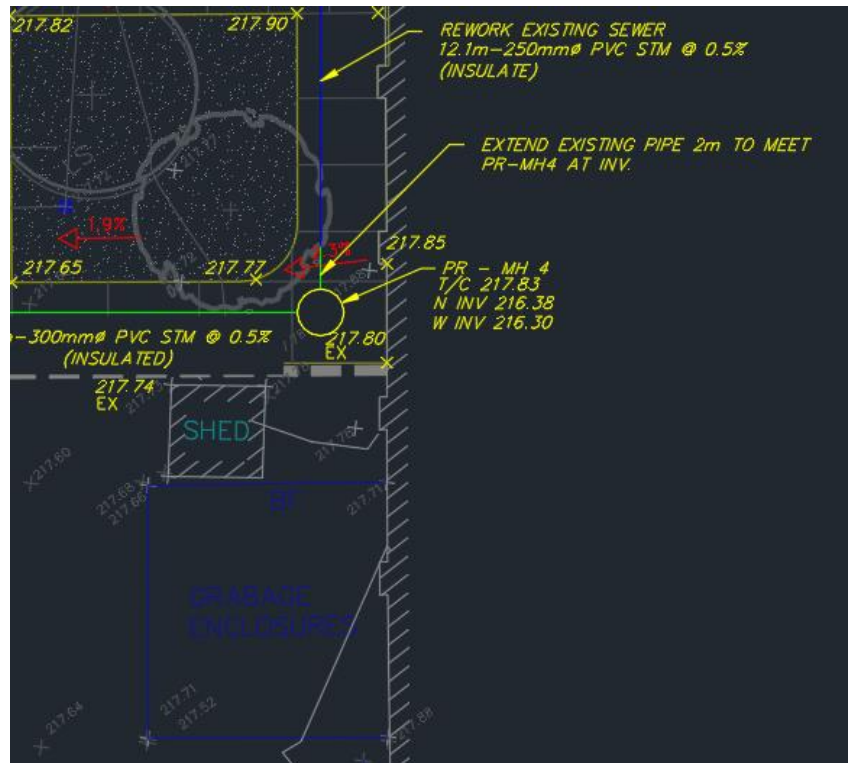
1. The EF06 is to be connected to the existing pipe.
2. There seems to be a linework discrepancy in CV-2. As per the City provided drawings, the existing pipe runs 24m from existing MH#5 and would require a 2m extension towards PR-MH 4. This would not conflict with the garbage enclosure. See sketch below:

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3. As noted on drawing L1, the proponent shall refer to the Civil drawings for the section of existing parking lot to be resurfaced.

- 2.7 **Question:** On drawing L1 says section of existing parking lot to be resurfaced.
But on drawing CV-2 at grading and drainage notes item 7 it says portion of driveway to have 430 mm of granular and 50mm HL8 and 40mm HL3 Please confirm which one we are doing.
Answer: Refer civil drawing CV-2, Note 7 – Contractor to confirm the pavement thickness based on the geotechnical report. The geotechnical report has been included in the tender documents issued.
- 2.8 **Question:** Under Specs 04 22 00 UNIT MASONRY the Adair Limestone by Arriscraft: Dolomitic limestone units, 590 x 90 x 90. Drawing A4.3/6 shows 190mm dimension of the limestone which is inconsistent with the dimensions in the spec. Can you please clarify the dimensions of the limestone.
Answer: The Adair limestone dimensions would be according to the specification 04 22 00 Unit Masonry.
- 2.9 **Question:** Schedule for floor Slab F1 does not indicate any rigid insulation but Details 1-A4.2 and 2-A4.2 show rigid insulation under floor slab? Can you please clarify if this is required and if so is it 2 inches or 4 inches? Is insulation required under concrete sidewalk? if so is it 4inch rigid?
Answer: The floor assembly will have R-7.5 rigid insulation horizontally for 1200mm along the periphery. Refer A0.2 Assembly Type Matrix and A2.0 Foundation Plan, R10 Issued for Tender Addendum 3.

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2.10 **Question:**

1. Please clarify if plastic laminate window sills per Section 06 20 00 Item #3.4 applies to windows W03 on 05/A4.7 & 07/A4.3?
2. Please clarify if benches shown on 3-5/A9.2 in Areas 104 & 110 Change Room A&B to be solid maple slat benches per Section 06 20 00 Item #3.3?
3. The spec book lists general specifications; please provide specific specs (MFR, colour, product code/#) for the plastic laminate & quartz finishes.

Answer:

1. The windows W03 will have plastic laminate windowsill according to specification 06 20 00 finish carpentry.
2. The benches shown in detail 3-5/A9.2 are supplied and installed by the manufacturer. Refer specifications 10 16 50 Athletic Lockers.
3. All selections will be made from acceptable specified manufacturers upon award.

2.11 **Question:** Please clarify if plastic laminate window sills per Section 06 20 00 Item #3.4 applies to windows type W03 on 05/A4.7 & 07/A4.3?

Answer: Refer Part 1, answer 2.7, addendum 3

2.12 **Question:** Please clarify if benches shown on 3-5/A9.2 in Areas 104 & 110 Change Room A&B to be solid maple slat benches per Section 06 20 00 Item #3.3?

Answer: Refer Part 2, answer 2.7, addendum 3

2.13 **Question:** The spec book lists general specifications; please provide specific specs (MFR, colour, product code/#) for the plastic laminate & quartz finishes.

Answer: Refer Part 3, answer 2.7, addendum 3

2.14 **Question:**

Can you please provide clarification on the 'SC' sealed concrete areas on the finish plan. There's no indication on the drawing or the specs as to what product they want here. There's a note (15) on page 11 of the Painting and Finishing spec that calls for painting of exposed sealed concrete floors. Are they just planning to paint the 'SC' areas or seal first then paint? They may have bonding issues with painting sealed slabs unless they plan to shot blast prior to painting.

Answer: Provide the following as the product to be used at all concrete floors noted as 'SC' in the finish plan.

Product: Liquid Curing/Sealing Compound: ASTM C309 Type 1, Class B and CSA A23.1, water based acrylic, "EVERCLEAR VOX" or "DIAMOND CLEAR VOX" by Euclid Chemical Canada Ltd., or "MasterKure CC 200WB" by Master Builders Solutions, "Sika Florseal WB 18 & 25" by Sika Canada Inc., "CIPADECK Cure & Seal WB" by CPD Construction Products or "Sealtight Vocomp-20" by W.R. Meadows of Canada.

INSTALLATION: Curing/sealing of Floors:

Liquid Curing/Sealing Compound: Prior to sawcutting operations cure and seal floor with 1 coat of liquid curing/sealing compound by method and at rate recommended by manufacturer. Apply a coat of liquid dustproofing compound

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ADDENDUM NO.03

28 days following concrete cure.

- 2.15 **Question:** As per notes on drawing E300, the new data cables run via conduit back the main IT room. Can you provide a drawing that shows where the MAIN IT room is in the existing building?

Answer: Refer the drawing E302 in the electrical drawing package issued for tender for the complete routing back to the main reception where the IT rack is located.

- 2.16 **Question:** Can the non-thermally broken frames be 5 3/4 inch with the standard unequal rabbet rather than 5 1/2 inch with the equal rabbet?

Answer: We require the 5 1/2" non-thermally broken frames to align with the 140mm concrete block.

END OF ADDENDUM 3

EXTERIOR WALL			INTERIOR WALL			FLOOR TYPES			ROOF TYPES		
TYPE	DESIGN	CONSTRUCTION	TYPE	DESIGN	CONSTRUCTION	TYPE	DESIGN	CONSTRUCTION	TYPE	DESIGN	CONSTRUCTION
EW1		REINFORCED POURED CONC. FOUNDATION. 75mm RIGID INSULATION. REFER TO STRUCTURAL DRAWINGS.	CB1		90 CONCRETE BLOCK 1-HOUR F.R.R. AS PROTECTION TO STEEL COLUMNS; O.B.C. SB-2 TABLE 2.6.1.A.	F1		FLOOR FINISH 150mm CAST IN PLACE FIBER REINFORCED CONCRETE SLAB ON GRADE 15 MIL VAPOUR BARRIER R-7.5 RIGID INSULATION HORIZONTALLY FOR 1200mm ALONG THE PERIPHERY COMPACTED GRANULAR 'A' CRUSHED STONE	R1		AGGREGATE SURFACING 4-PLY BUILT-UP ROOF 25mm FIBREBOARD TAPERED INSULATION (AS REQUIRED) 150mm RIGID INSULATION VAPOUR RETARDER 13mm EXTERIOR BOARD UNDERLAY 38mm STEEL DECK
EW2		REINFORCED POURED CONC. FOUNDATION. REFER TO STRUCTURAL DRAWINGS.	CB2		140 CONCRETE BLOCK MEETS OR EXCEEDS 1-HOUR F.R.R.; O.B.C. SB-2 TABLE 2.1.1.				R2		2-PLY MODIFIED BITUMEN C/W SANDED CAP SHEET 16mm EXTERIOR GRADE PLY SHEATHING 38mm STEEL DECK STRUCTURAL STEEL FRAMING 19mm T&G CLEAR CEDAR SOFFIT ON METAL STUD FRAMING
EW3		90mm MASONRY VENEER C/W THERMALLY BROKEN TIES & WEEPS AS PER O.B.C. 25mm MINIMUM AIR SPACE 65mm CLOSED CELL SPRAY FOAM INSULATION (AIR BARRIER MEMBRANE SYSTEM) 190mm CONCRETE BLOCK BACK-UP	CB3		190 CONCRETE BLOCK MEETS OR EXCEEDS 1-HOUR F.R.R.; O.B.C. SB-2 TABLE 2.1.1.						
EW4		25mm METAL PANELS W/ CONCEALED FASTENERS & THERMALLY BROKEN SUPPORT GIRTS 25mm MINIMUM AIR SPACE 65mm CLOSED CELL SPRAY FOAM INSULATION (AIR BARRIER MEMBRANE SYSTEM) 190mm CONCRETE BLOCK BACK-UP									
EW5											

01 ASSEMBLY TYPES MATRIX
A0.2 1:10

NO.	DATE	PARTICULAR
03	2024.05.14	ISSUED FOR CLIENT REVIEW
04	2024.07.11	ISSUED FOR 75% REVIEW & HERITAGE PERMIT
05	2024.07.26	ISSUED FOR 90% COMPLETE
06	2024.08.26	ISSUED FOR TENDER & PERMIT
07	2024.09.20	RE-ISSUED FOR TENDER
09	2024.10.10	ISSUED FOR TENDER ADDENDUM 2
10	2024.10.16	ISSUED FOR TENDER ADDENDUM 3

NOTES:

KEY PLAN:

CLIENT:
CITY OF BRAMPTON
2 WELLINGTON STREET WEST
BRAMPTON, ON
L6Y 4R2

PROJECT:
22344
BRAMPTON MEMORIAL ARENA EXPANSION
ADDITION TO EXISTING HERITAGE BUILDING

69 ELLIOT STREET
BRAMPTON, ON
L4Y 1W2

ORIGINAL PAGE SIZE ARCH E1 - 30" x 42"
KEY TO DETAIL LOCATION:
A - DETAIL NO.
B - DETAIL NO. ORIGIN

+VVG ARCHITECTS
THE VENITIN GROUP LTD



A0.2

DRAWN BY: ?

CHECKED BY: ?

SCALE:

ASSEMBLY TYPES MATRIX

All dimensions and measurements must be checked and verified by the General Contractor. Reproduction of drawings and related documents in whole or in part is forbidden without written permission of the Venin Group.

Plot Date: Oct 16, 2024 - 2:38pm By: sgill. Filename: Z:\22344 - Brampton Memorial Arena Expansion\DRAWINGS\Current\22344 - A4 - Dlls.dwg

ADDENDUM NO.04

The tender and contract documents for the Brampton Memorial Arena Expansion at 69 Elliot Street, Brampton, ON for the City of Brampton, are hereby amended as follows:

1.0 Bid Documents:

1.1 Mechanical Drawings

Delete the previously issued mechanical drawings M250, M251, M252, M450 and M900 to **Add** the attached mechanical drawings (Issued for Mechanical Addendum M01, 2024.10.18)

2.0 Bid Questions:

2.1 Question:

- Fraser-Johnson RTU-1 and RTU-2 are not available for purchase in Canada. The closest supplier is in Buffalo, United States.
- Can we submit alternate because they are not available for delivery in Canada.

Answer:

- Basis of design for roof top units is Johnsons Control. These units are available in Canada and the contact details for Johnson Control: Isaac Mui, 416-938-9464, Issa.Mui@jci.com
- Alternate acceptable manufacturers are Lennox, Trane and Daikin

2.2 Question: The sprinkler trades are asking where to tie in the new sprinkler system. Will there be a new run from the mechanical room with a dedicated valve? What will be the length of this run? Please clarify.

Answer: The new 100mm main sprinkler line runs from the existing mechanical room to the new addition (Approximate 70-meter length main pipe) c/w flow switch and temper switch zone valve. Refer updated mechanical drawing set issued as tender addendum M01.

2.3 Question: Please provide larger print size or drawing scale of the Mechanical Drawings since symbols and notes are not clearly legible (ie: M-252).

Please provide alternate manufacturers that are acceptable for the pump and split system. Only one manufacturer listed.

Answer:

- Refer updated mechanical drawing set issued as tender addendum M01
- Alternate Manufacture: Split system: Daikin, LG

2.4 Question:

- What is the existing Intrusion system in the Brampton Memorial?
- What is the existing alarm panel model, is there any space to add these new zones on it

Answer:

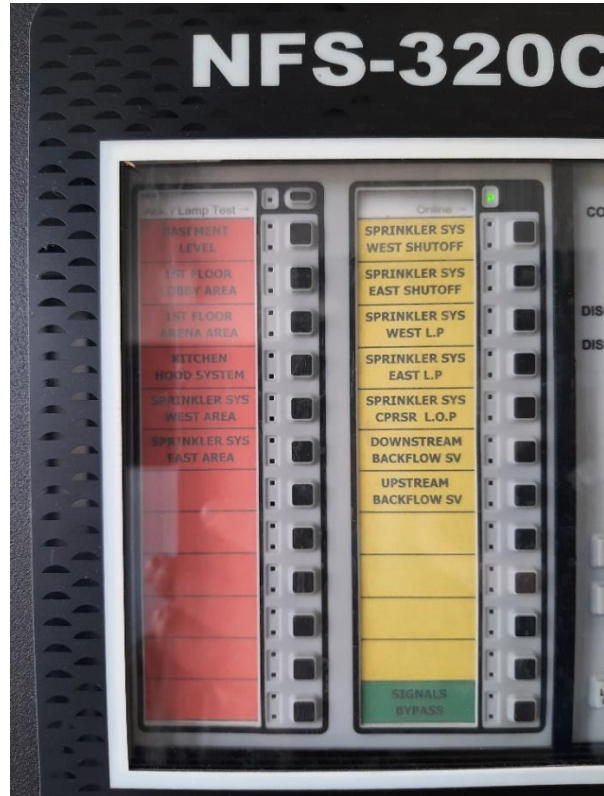
- For the scope of this project, only the raceways and boxes for the intrusion system were accounted for.
- This is noted in the drawings refer electrical drawing E40 issued for tender. And refer to the attached pictures for additional information.

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ADDENDUM NO.04



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ADDENDUM NO.04

2.5 **Question:**

As per notes on drawing E300, the new data cables run via conduit back the main IT room.

Can you provide a drawing that shows where the MAIN IT room is in the existing building?

Answer: Refer the drawing E302 in the electrical drawing package issued for tender for the complete routing back to the main reception where the IT rack is located.

END OF ADDENDUM 4

Project Name:	Brampton Memorial Arena	Date Issued:	October 18, 2024
Quasar Project #:	CM-23-121		
Client Project #:	T2024-276		

Distribution

Company	Name	Email
Quasar Consulting Group	Bryan Humber	Bryan.humber@quasarcg.com
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+VG Architects	Sara Gill	sgill@plusvg.com
+VG Architects	Chris Hall	chall@plusvg.com

Addendum #:	M01
Revision #:	1

This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

This addendum includes modifications to the drawings as summarized below. Unless otherwise noted, all drawings listed below are attached herewith.

Changes to Specifications:

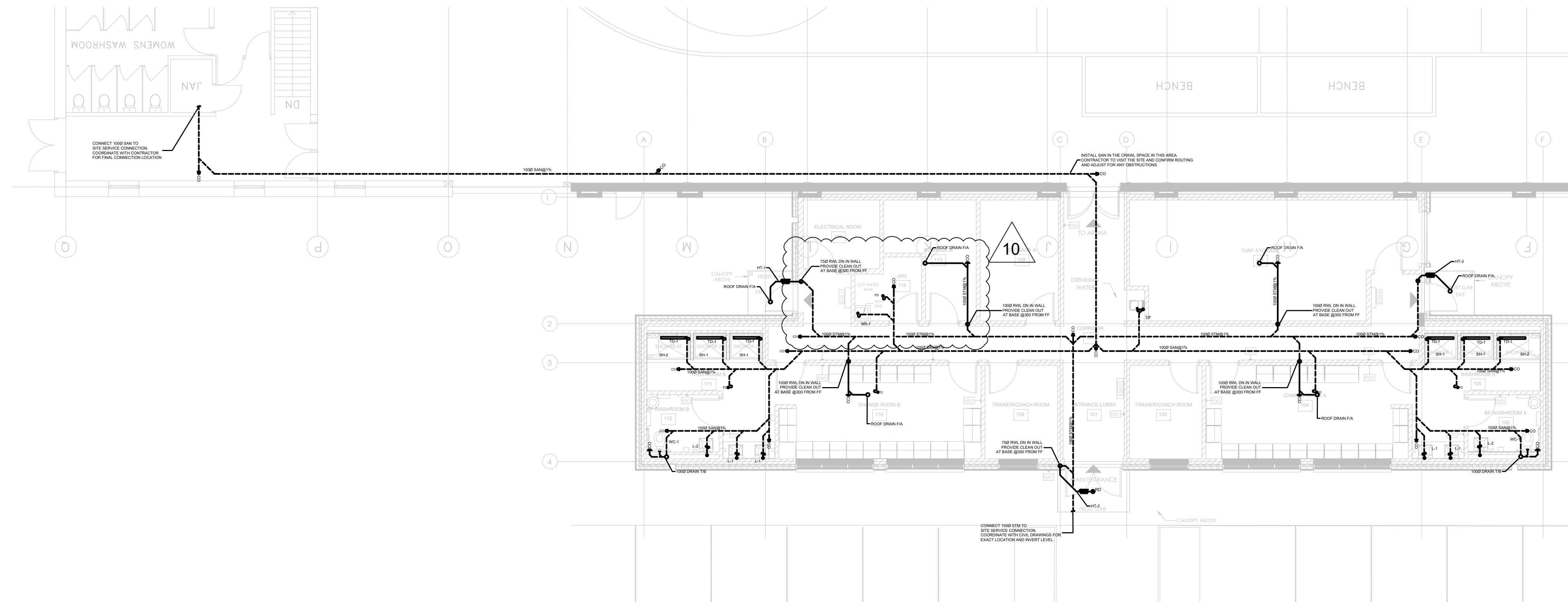
1. No Changes to the Specifications required.

Changes to Drawings:

1. Roof drain drop downs relocated to match architectural changes. See M250.
2. Scupper Drains added on roof plan. See M251.
3. See updated text size on Sheet M252
4. New notes added to M450 to address sprinkler line from existing buildings mechanical room.
5. See updated schedule on M900 for RTU's. Units are available in Canada please contact Issac Mui (Isaac.Mui@jci.com) for further assistance ordering.

Quasar Consulting Group
Bryan Humber, EIT

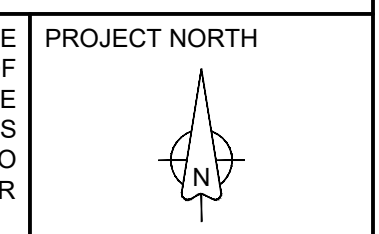
Mechanical Designer



No.	DATE	DESCRIPTION	CH'D
10	2024-10-18	ISSUED FOR MECH ADDENDUM M01	GM
9	2024-09-24	RE-ISSUED FOR TENDER	AZ
8	2024-09-19	RE-ISSUED FOR TENDER	AZ
7	2024-08-26	ISSUED FOR PERMIT & TENDER	TS
6	2024-08-08	ISSUED FOR 90% CD - R1	AZ
5	2024-07-25	ISSUED FOR 90% CD	AZ
4	2024-05-15	ISSUED FOR 50% CD	GM
3	2024-03-20	ISSUED FOR 100% DD	GM
2	2024-02-21	ISSUED FOR PRELIMINARY SPA REVIEW	GM
1	2024-02-05	ISSUED FOR PROGRESS REVIEW	GM

REVISIONS

THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.





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LICENSED PROFESSIONAL ENGINEER

Z. N. HASHMI

100177060



PROVINCE OF ONTARIO

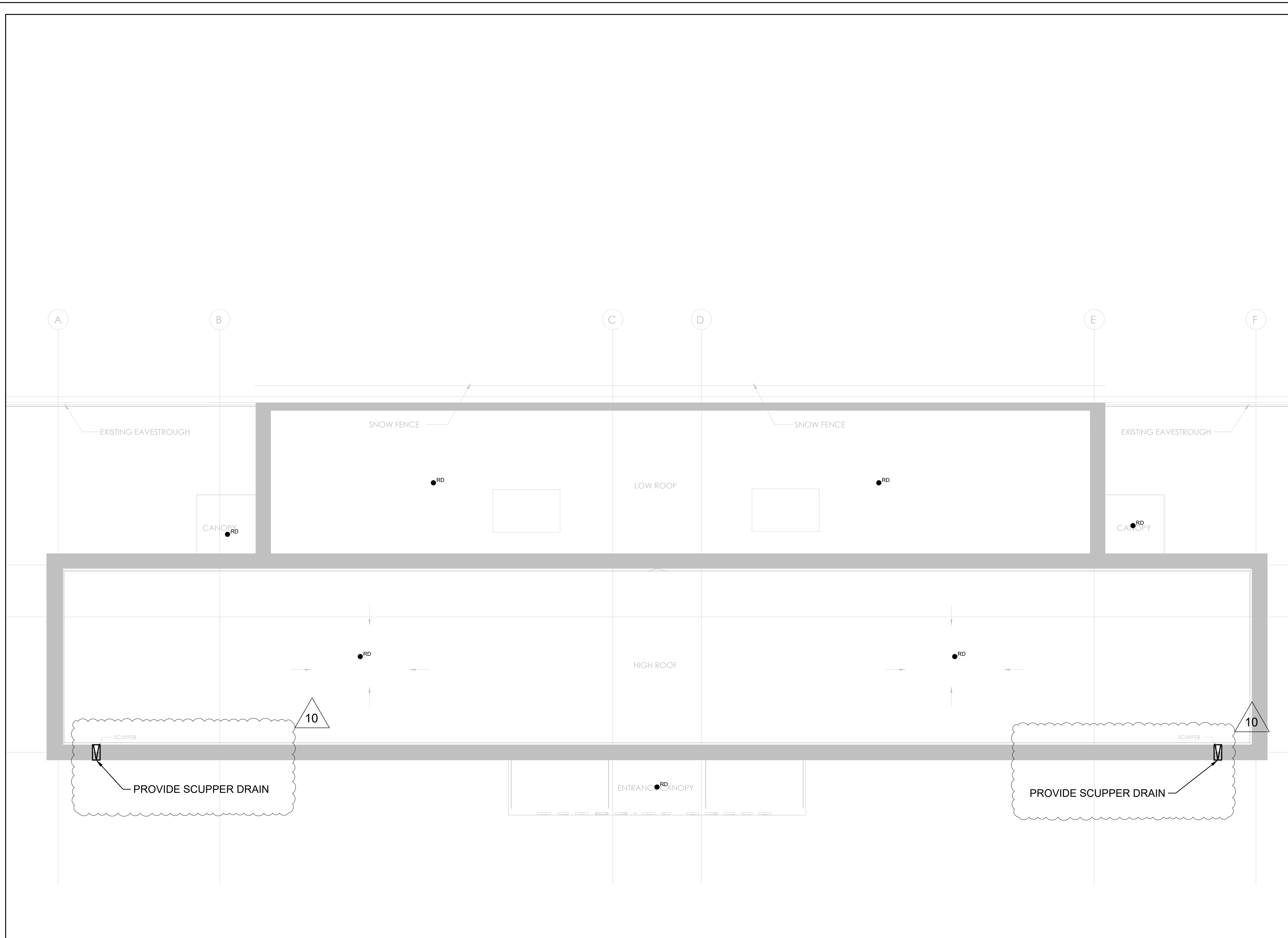
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: CM-23-121@QUASARCG.COM

PROJECT
+VG ARCHITECTS
 Brampton Memorial Arena Expansion
 69 Elliot St,
 Brampton, ON
 L6Y1W2, Canada

TITLE
PLUMBING GROUND FLOOR (DRAINAGE)

CHECKED **ZH** PROJECT No. **CM-23-121**

SCALE **AS SHOWN** DRAWING No. **M250**

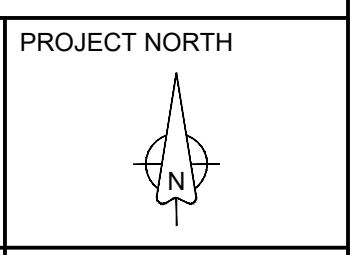


1 PLUMBING ROOF PLAN (DRAINAGE)
SCALE: 1:50

No.	DATE	DESCRIPTION	CH'D
10	2024-10-18	ISSUED FOR MECH ADDENDUM M01	GM
9	2024-09-24	RE-ISSUED FOR TENDER	AZ
8	2024-09-19	RE-ISSUED FOR TENDER	AZ
7	2024-08-26	ISSUED FOR PERMIT & TENDER	TS
6	2024-08-08	ISSUED FOR 90% CD - R1	AZ
5	2024-07-25	ISSUED FOR 90% CD	AZ
4	2024-05-15	ISSUED FOR 50% CD	GM
3	2024-03-20	ISSUED FOR 100% DD	GM
2	2024-02-21	ISSUED FOR PRELIMINARY SPA REVIEW	GM
1	2024-02-05	ISSUED FOR PROGRESS REVIEW	GM

REVISIONS

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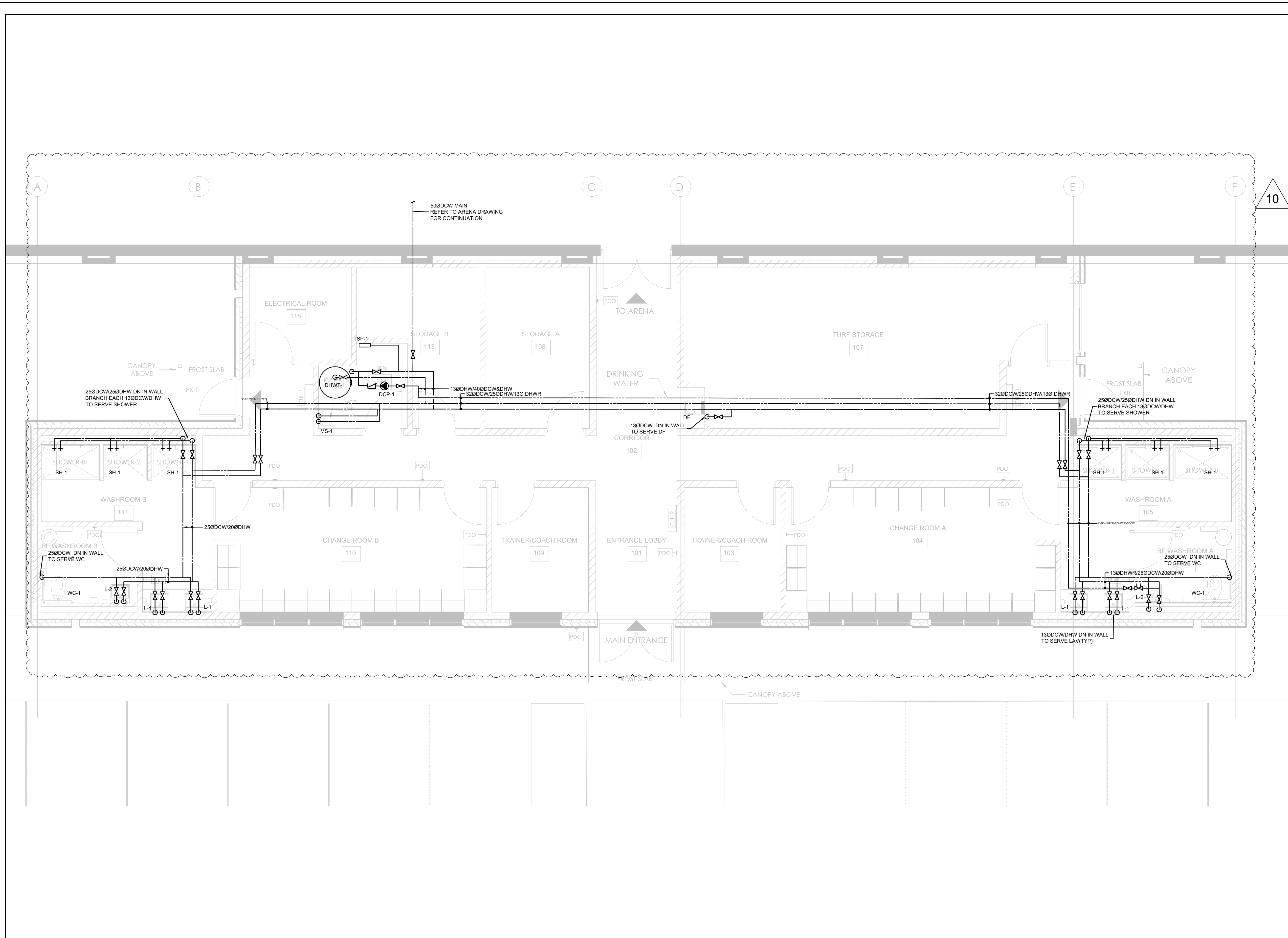
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: CM-23-121@QUASARCG.COM

PROJECT
+VG ARCHITECTS
Brampton Memorial Arena Expansion
69 Elliot St,
Brampton, ON
L6Y1W2, Canada

TITLE
PLUMBING ROOF PLAN (DRAINAGE)

CHECKED ZH PROJECT No. CM-23-121

SCALE AS SHOWN DRAWING No. M251

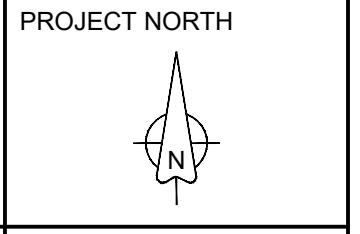


1 PLUMBING GROUND FLOOR (WATER SUPPLY)
SCALE: 1:50

No.	DATE	DESCRIPTION	CH'D
10	2024-10-18	ISSUED FOR MECH ADDENDUM M01	GM
9	2024-09-24	RE-ISSUED FOR TENDER	AZ
8	2024-09-19	RE-ISSUED FOR TENDER	AZ
7	2024-08-26	ISSUED FOR PERMIT & TENDER	TS
6	2024-08-08	ISSUED FOR 90% CD - R1	AZ
5	2024-07-25	ISSUED FOR 90% CD	AZ
4	2024-05-15	ISSUED FOR 50% CD	GM
3	2024-03-20	ISSUED FOR 100% DD	GM
2	2024-02-21	ISSUED FOR PRELIMINARY SPA REVIEW	GM
1	2024-02-05	ISSUED FOR PROGRESS REVIEW	GM

REVISIONS

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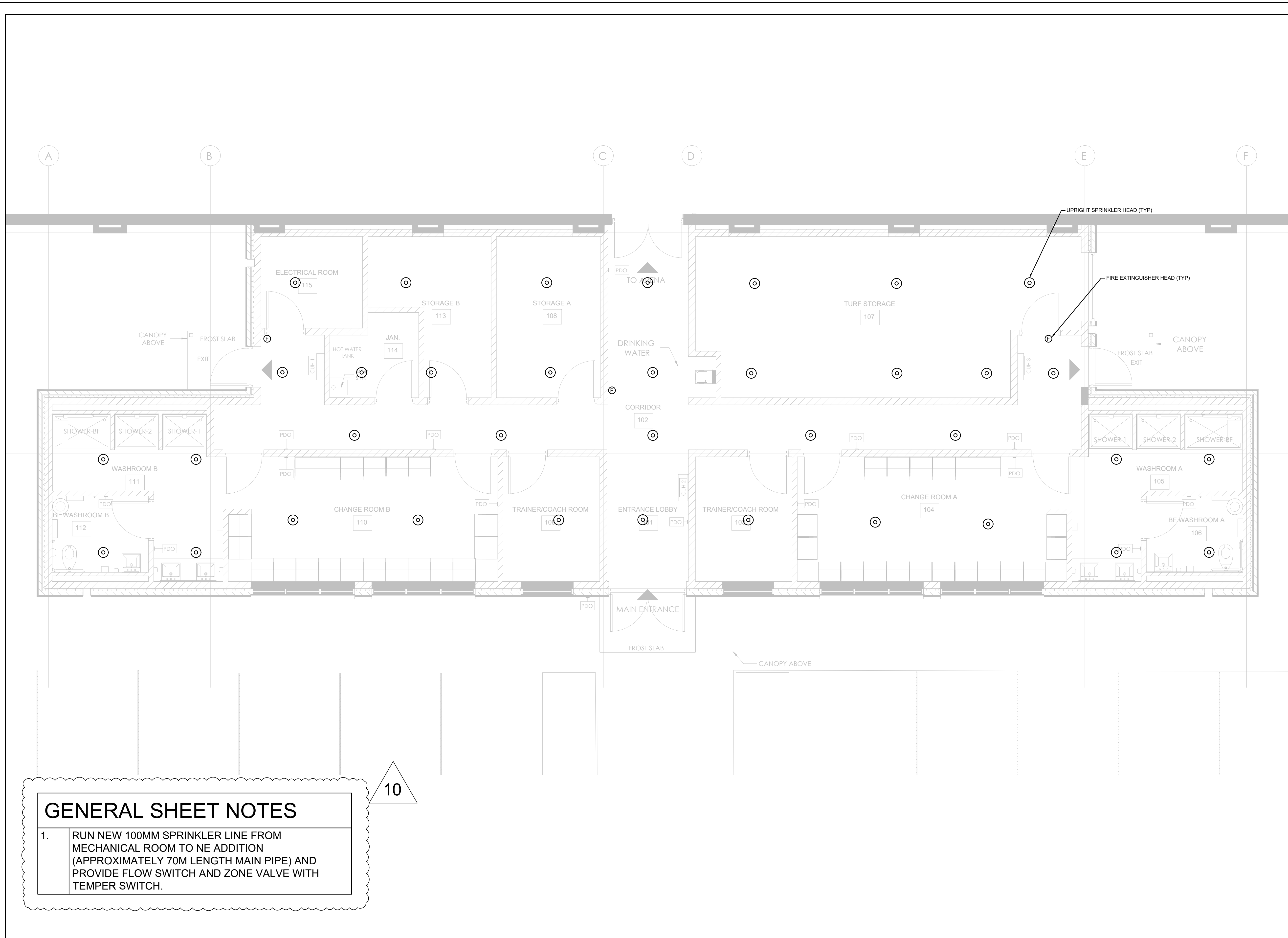
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: CM-23-121@QUASARCG.COM

PROJECT
+VG ARCHITECTS
Brampton Memorial Arena Expansion
69 Elliot St,
Brampton, ON
L6Y1W2, Canada

TITLE
PLUMBING GROUND FLOOR (WATER SUPPLY)

CHECKED **ZH** PROJECT No. **CM-23-121**

SCALE **AS SHOWN** DRAWING No. **M252**



GENERAL SHEET NOTES

1. RUN NEW 100MM SPRINKLER LINE FROM MECHANICAL ROOM TO NE ADDITION (APPROXIMATELY 70M LENGTH MAIN PIPE) AND PROVIDE FLOW SWITCH AND ZONE VALVE WITH TEMPER SWITCH.

10

1 SPRINKLER LAYOUT-GROUND FLOOR
SCALE: 1:50

No.	DATE	DESCRIPTION	CH'D
10	2024-10-18	ISSUED FOR MECH ADDENDUM M01	GM
9	2024-09-24	RE-ISSUED FOR TENDER	AZ
8	2024-09-19	RE-ISSUED FOR TENDER	AZ
7	2024-08-26	ISSUED FOR PERMIT & TENDER	TS
6	2024-08-08	ISSUED FOR 90% CD - R1	AZ
5	2024-07-25	ISSUED FOR 90% CD	AZ
4	2024-05-15	ISSUED FOR 50% CD	GM
3	2024-03-20	ISSUED FOR 100% DD	GM
2	2024-02-21	ISSUED FOR PRELIMINARY SPA REVIEW	GM
1	2024-02-05	ISSUED FOR PROGRESS REVIEW	GM

REVISIONS

THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.

PROJECT NORTH

QUASAR
CONSULTING GROUP

250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
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Z.N. HASHMI
100177060
PROVINCE OF ONTARIO

FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:
CM-23-121@QUASARG.COM

PROJECT

+VG ARCHITECTS
Brampton Memorial Arena Expansion
69 Elliot St,
Brampton, ON
L6Y1W2, Canada

TITLE

SPRINKLER GROUND FLOOR

CHECKED **ZH** PROJECT No. **CM-23-121**

SCALE **AS SHOWN** DRAWING No. **M450**

ASHP ELECTRIC BACKUP ROOFTOP UNIT

Table with columns: TAG, MAN., MODEL, QTY, SERVICE, SUPPLY FAN (TOTAL AIRFLOW, E.S.P, OUTDOOR AIR), CAPACITY (TOTAL, SENSIBLE), COOLING (LEAVING AIR, LEAVING AIR - W.B, ENTERING AIR - W.B, CAPACITY), HEATING PERFORMANCE (LEAVING AIR - D.B, ENTERING AIR - D.B, CAPACITY), EFFICIENCY (EER, SEER, MCA, MOC), ELECTRICAL (V/PH/Hz, MCA, MOC, P/PH/Hz), WEIGHT (KG).

NOTES: 1. WEATHER PROOF DISCONNECT SWITCH. 2. STAINLESS STEEL HEAT EXCHANGER. 3. 14" HIGH DOWN FLOW INSULATED ROOF CURBS. 4. MERV 8 PRE AND MERV 13 FINAL FILTERS. 5. OUTDOOR AIR HOOD, ECONOMICIZER, BAROMETRIC RELIEF AIR DAMPER, CONDENSATE P-TRAP AND PROGRAMMABLE THERMOSTAT 6. COZ DUCT MOUNTED SENSORS

Split A/C Condensing Units table with columns: Tag, Manufacturer, Model, Cooling Capacity, Heating Capacity, Refrigerant Type, Electrical, Weight.

GRILLES AND DIFFUSERS table with columns: TAG, TYPE, MANUFACTURER, MODEL, SIZE.

TRAP SEAL PRIMER table with columns: TAG, SYSTEM SERVED, MANUFACTURER, MODEL, ELECTRICAL, AMPS, NOTES.

SPLIT A/C INDOOR UNIT table with columns: TAG, MANUFACTURER, MODEL, COOLING CAPACITY, HEATING CAPACITY, REFRIGERANT TYPE, ELECTRICAL, EFFICIENCY, WEIGHT.

EXPANSION TANK SCHEDULE table with columns: TAG, SERVICING, MAKE, MODEL, FLUID, TANK SIZE, MAX WORKING PRESSURE, MAX/MIN TEMPERATURE.

EXHAUST FAN table with columns: TAG, SERVICE, LOCATION, MANUFACTURER, MODEL, AIRFLOW, E.S.P, POWER, BHP, MOTOR RPM, V/PH/Hz, SPEED CONTROL, SOUND POWER, Weight.

HEAT TRACING SCHEDULE table with columns: TAG, SYSTEM SERVED, POWER, LENGTH, V/PH/Hz, NOTES.

Electric Heaters table with columns: Tag, Type, Manufacturer, Model, Location, Capacity, Airflow, Electrical, Notes.

DOMESTIC HOT WATER RECIRCULATION PUMP SCHEDULE table with columns: TAG, DESCRIPTION, LOCATION, MAKE, MODEL, WATER FLOW RATE, PUMP DESIGN HEAD, WORKING FLUID, POWER, NOTES.

DOMESTIC HOT WATER TANK table with columns: TAG, MANUFACTURER, MODEL, SERVICE, INPUT, NOMINAL STORAGE CAPACITY, RECOVERY AT 100°F RISE, COP, ELECTRIC, HEIGHT, DIA, WEIGHT.

PLUMBING FIXTURE table with columns: TAG, DESCRIPTION, SAN, VENT, DCW, DHW, TRAP, NOTES. Includes entries for WC-1, SH-1, MS-1, L-1, L-2, DF-1, TD-1.

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Revision table with columns: No., DATE, DESCRIPTION, CH'D.

REVISIONS section containing project logo (QUASAR CONSULTING GROUP), project name (PROJECT NORTH), and contact information (250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARGC.COM).

FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: CM-23-121@QUASARGC.COM

PROJECT section with project name (+VG ARCHITECTS), location (Brampton Memorial Arena Expansion, 69 Elliot St, Brampton, ON L6Y1W2, Canada), and title (EQUIPMENT SCHEDULES). Includes a scale of AS SHOWN and drawing number M900.