



RAFAT

8850 GEORGE BOLTON PARKWAY, CALEDON, ONTARIO L7E 2Y4

RFI Transmittal No: 159

Project Name:	Renovation of Chris Gibson Recreation Centre Drive	Project No.	T2023-125
		DATE:	22-Jan-2025

RFI No: 159

Title: Duct Size Clarification

To: Patrick Johnson - Contract Administrator (DSA)
Vincent Goetz - Senior Associate (DSA)

Requested by	RAFAT	Sketch Attached	Y	Total # Pages	7
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Description of RFI
Please see attached RFI

Response Required By
29 Jan 2025

Date Responded	Jan. 23, 2025	Sketch Attached		Total # Pages	
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Consultants Response
Please see comments on RFI below.

Approved/Responded by: I. Littley

DSA: see Introba responses noted on following pages of review.

Patrick Johnson / DSA
January 24, 2025



54 Audia Court, Unit 2
Concord, ON L4K 3N5
(905)-738-1400

Request For Information 23-214-015

Jan 21, 2025

Project Name

CHRIS GIBSON REC CENTRE

Project Address

125 McLaughlin Rd N, Brampton, ON, L6X 1N9

To

Name

Ashish Singla

Company

RAFAT GENERAL CONTRACTOR INC.

Email

asingla@corebuildconstruction.com

Address

8850 GEORGE BOLTON PKWY BOLTON, ON L7E 2Y4

From

Name

INZAMAN KHAN

Company

Consult Mechanical Inc.

Email

inzaman@consultmechanical.com

Address

54 Audia Court, Unit 2 Concord, ON L4K 3N5

Title

Duct Size Clarification

SCHEDULE IMPACT

Probable

COST IMPACT

No

RETURN BY

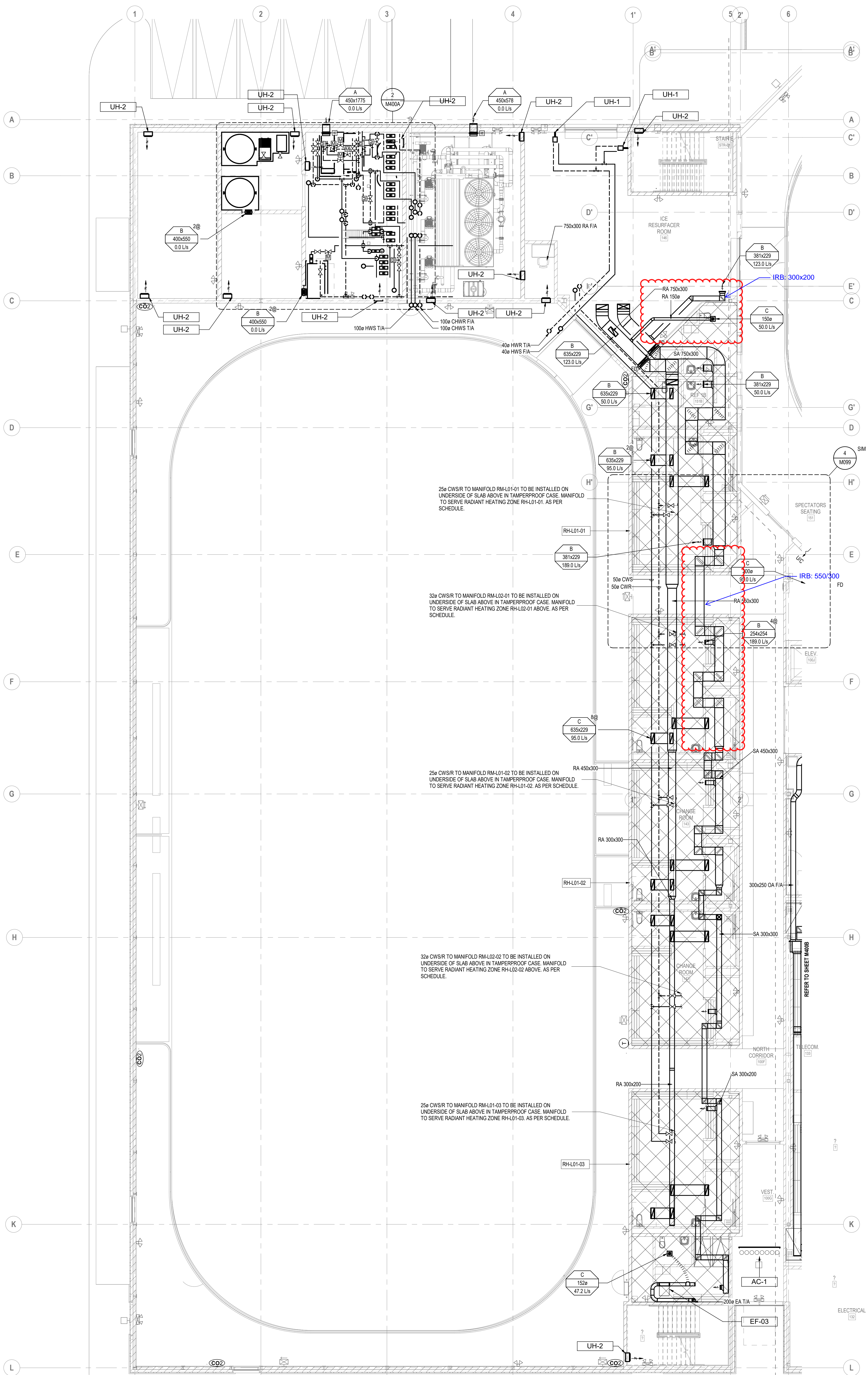
Jan 24, 2025

Information Requested

Please refer to the attached drawings and confirm all the missing sizes clouded in the drawings.

Attachments

1. [Extracted-pages-from-Chris-Gibson-IFCs-mechanical.pdf](#)

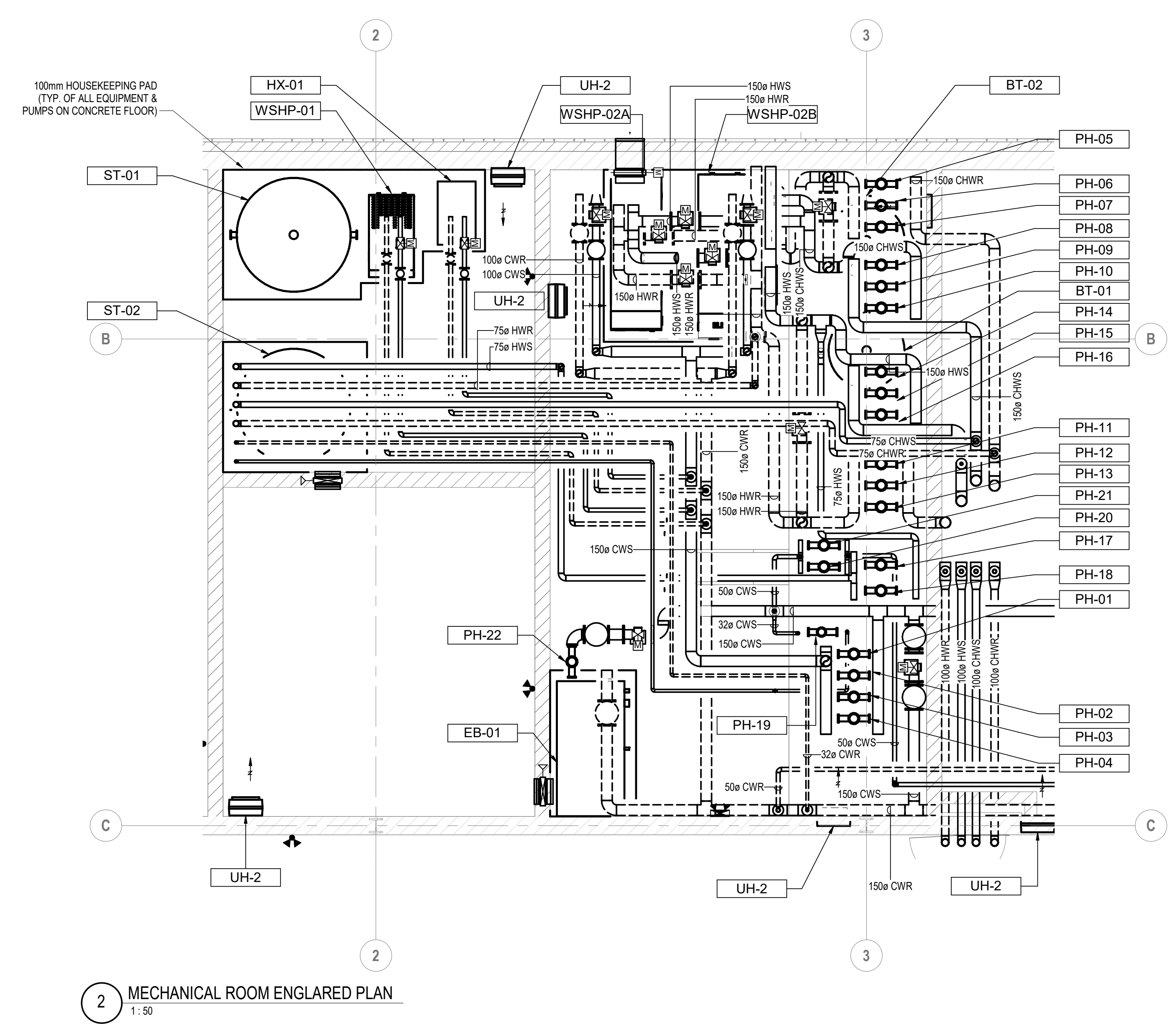


Radiant Slab Heating Manifold Schedule

Manifold	Zone	Area	Load			Fluid			Flow	WPD	EWT			LWT	Notes
			m2	(kW)	(BTU/h)	(GPM)	(kg/s)	(°C)			(°F)	(°F)			
RM-L01-01	RH-L01-01	89.2	960	10.1	34,570	30% P.G.	0.23	3.6	37.7	12.6	42.2	108	30.5	86.9	1, 2, 3, 4, 5
RM-L01-02	RH-L01-02	149.4	1608	17.0	57,886	30% P.G.	0.38	6.1	51.7	17.3	42.2	108	30.5	86.9	1, 2, 3, 4, 5
RM-L01-03	RH-L01-03	75.9	817	8.6	29,419	30% P.G.	0.20	3.1	52.3	17.5	42.2	108	30.5	86.9	1, 2, 3, 4, 5
RM-L02-01	RH-L02-01	131.7	1418	15.6	53,175	30% P.G.	0.47	7.5	16.4	5.5	42.2	108	33.5	92.2	1, 2, 3, 4, 5
RM-L02-02	RH-L02-02	131.9	1420	15.6	53,250	30% P.G.	0.47	7.5	16.4	5.5	42.2	108	33.5	92.2	1, 2, 3, 4, 5

Notes:

1. P.G. = Propylene Glycol
2. Maximum Pressure Drop per Circuit is 10 ft. w.c.
3. 15.8mm dia. Pipe Diameter
4. 225mm pipe spacing on centre
5. Refer to specifications for pressure testing and warranty requirements.
6. Refer to details for installation requirements and minimum concrete cover



UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO CENTERLINE OF PIPING UNLESS NOTED OTHERWISE. DIMENSIONS ON EXTENSION FACE OF CAST-IRON EQUIPMENT.

VERIFY ALL DIMENSIONS, ELEVATIONS AND SIZES BEFORE AND/OR DURING CONSTRUCTION.

REFER TO ALL DRAWINGS.

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ISSUED

No.	Date	Description
1	2020-12-14	ISSUED FOR 60% DD
2	2021-03-26	ISSUED FOR 100% DD
3	2021-06-17	ISSUED FOR 90% CD REVIEW
4	2021-09-24	ISSUED FOR 90% CD
5	2021-11-01	ISSUED FOR REVIEW
6	2021-11-10	ISSUED FOR 100% CD
7	2022-02-18	ISSUED FOR TENDER
8	2022-04-03	ISSUED FOR BUILDING PERMIT
9	2022-07-20	RESUBMITTED FOR PERMIT
10	2022-08-05	RESUBMITTED FOR PERMIT
11	2022-10-05	RESUBMITTED FOR PERMIT
12	2023-03-31	ISSUED FOR TENDER
13	2023-05-02	ADDENDUM M-1
14	2023-09-08	ISSUED FOR CONSTRUCTION

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Project North True North

Chris Gibson Recreation Centre
Renovation and Addition

125 McLaughlin Road North
Scarborough, ON
M1A 1Y7

LEVEL 01 - NORTH HVAC PLAN

Scale: As indicated
Project No: 210205
Date: 2022-04-06

M400A

BIM: 2023-09-27 3:35:09 PM

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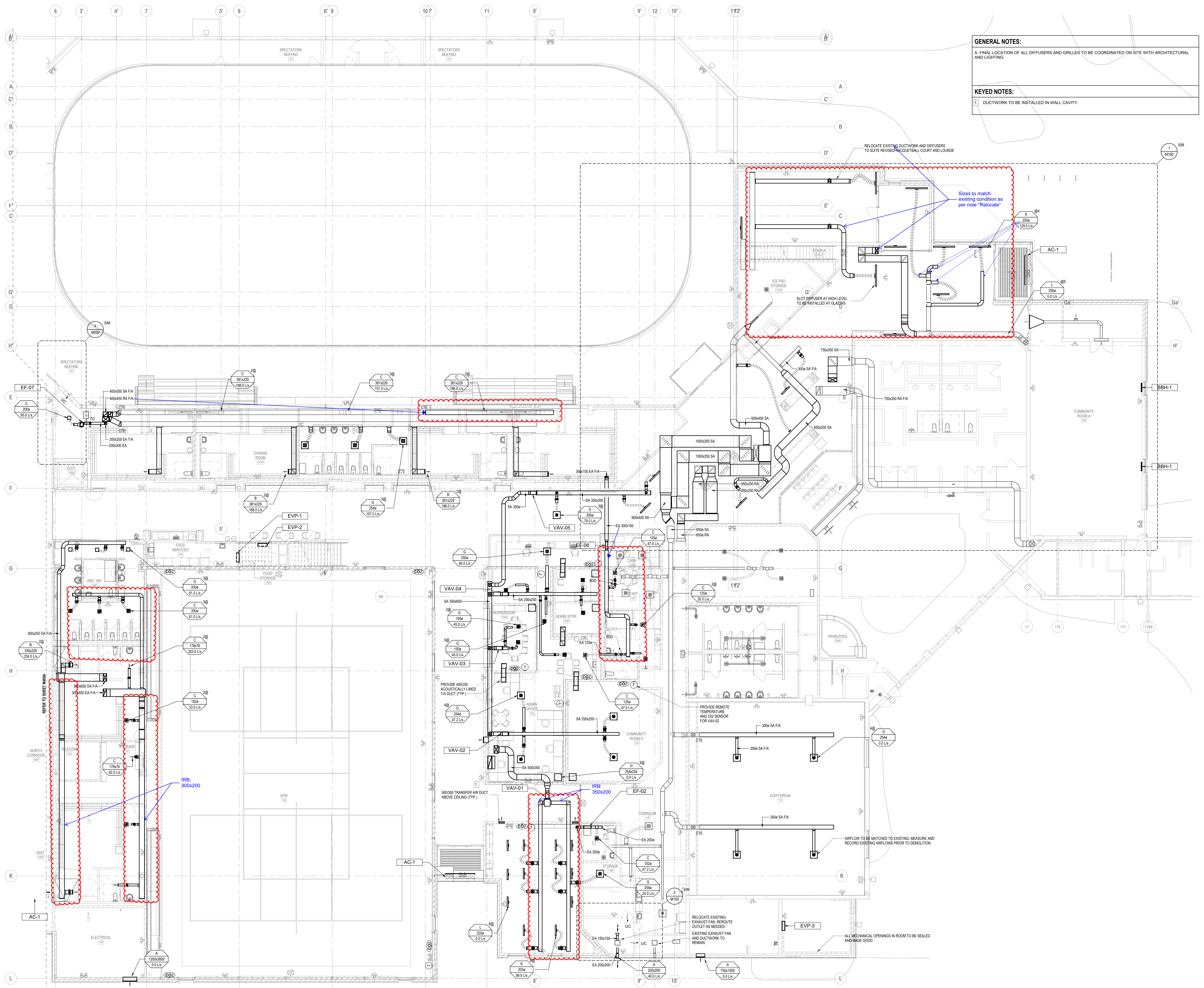
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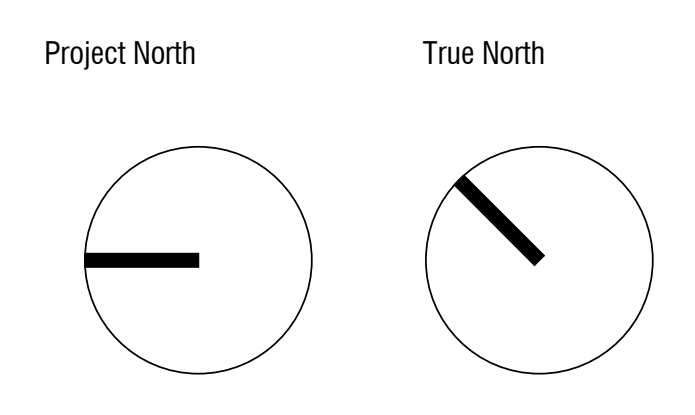
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6	2021-11-19	ISSUED FOR 100% CD
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8	2022-06-03	ISSUED FOR BUILDING PERMIT
9	2022-02-29	RESUBMITTED FOR PERMIT
10	2022-08-05	RESUBMITTED FOR PERMIT
11	2023-03-31	ISSUED FOR TENDER
12	2023-05-02	ADDENDUM #1
13	2023-09-08	ISSUED FOR CONSTRUCTION

GENERAL NOTES:
 A. FINAL LOCATION OF ALL DIFFUSERS AND GRILLES TO BE COORDINATED ON SITE WITH ARCHITECTURAL AND LIGHTING.

KEYED NOTES:
 1. DUCTWORK TO BE INSTALLED IN WALL CAVITY.



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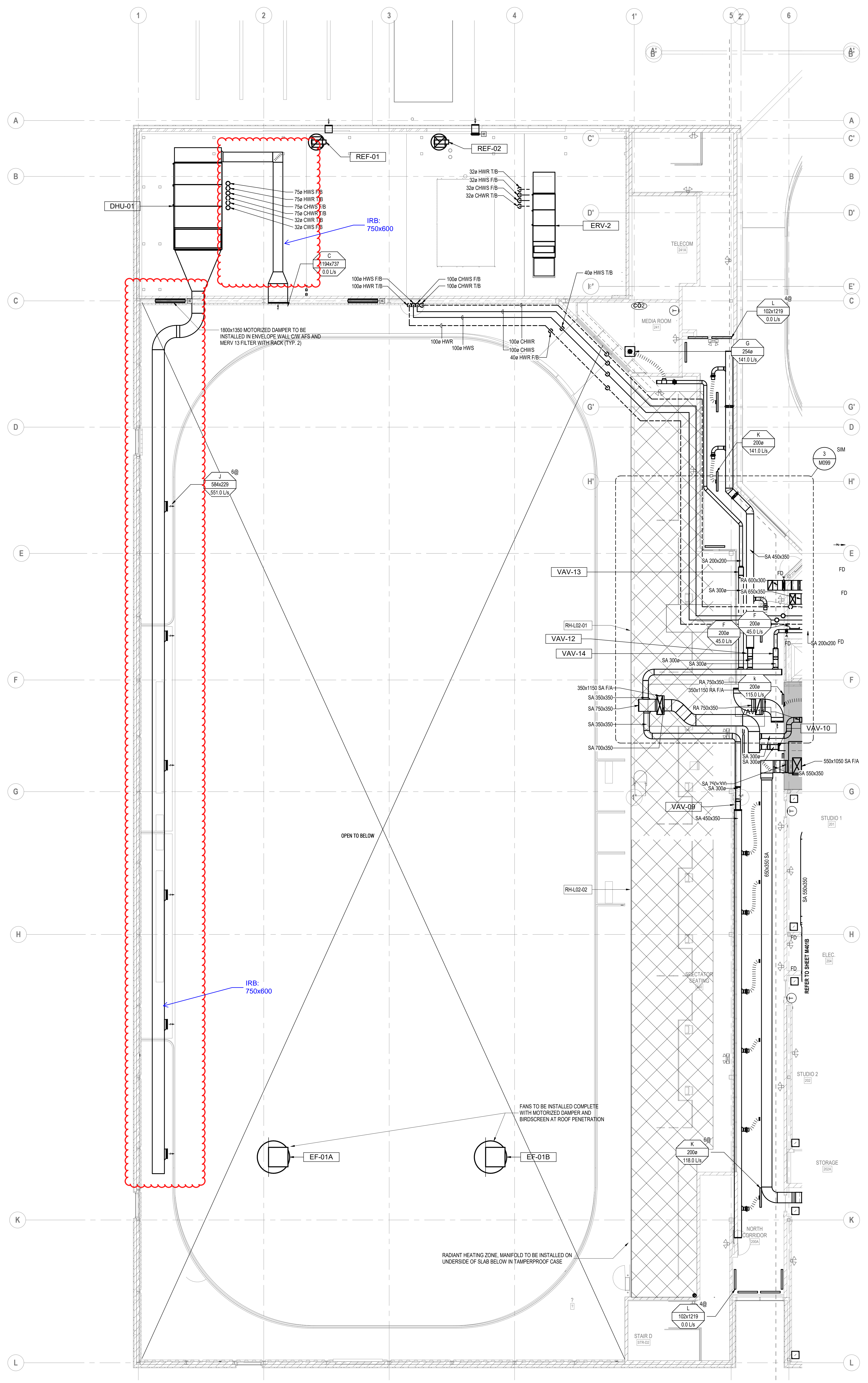


Chris Gibson Recreation Centre
 Renovation and Addition

125 McLaughlin Road North
 Brampton, ON
 L6R 1Y7

LEVEL 01 - SOUTH HVAC PLAN

Scale: 1" = 10'
 Project No: 210300
 Date: 2022-04-06



GENERAL NOTES:

A. FINAL LOCATION OF ALL DIFFUSERS AND GRILLES TO BE COORDINATED ON SITE WITH ARCHITECTURAL AND LIGHTING.

B. ALL IN-SLAB HEATING MANIFOLDS TO BE INSTALLED AT UNDERSIDE OF LEVEL 2 SLAB AT ARENA VIEWING AREA IN TAMPER-PROOF CASES.

C. COORDINATE INSTALLATION OF IN SLAB HEATING PIPING ON SITE WITH OTHER TRADES. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.

KEYED NOTES:

[I] RESERVED.

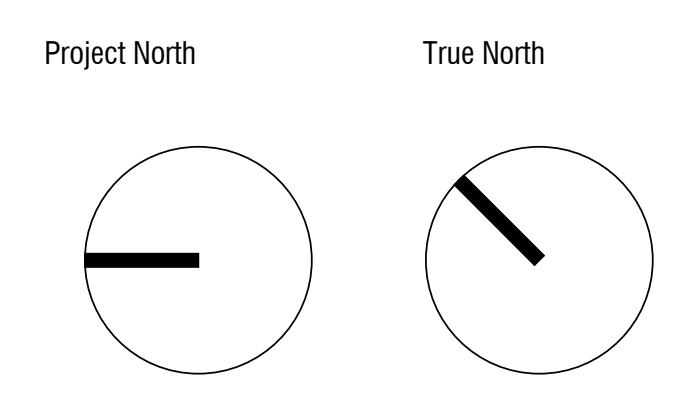
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**Chris Gibson Recreation Centre
Renovation and Addition**

125 McLaughlin Road North
Brampton, ON
L6R 1Y7

LEVEL 02 - NORTH HVAC PLAN

Scale: 1:100
Project No: 210305
Date: 2022-04-06

M401A

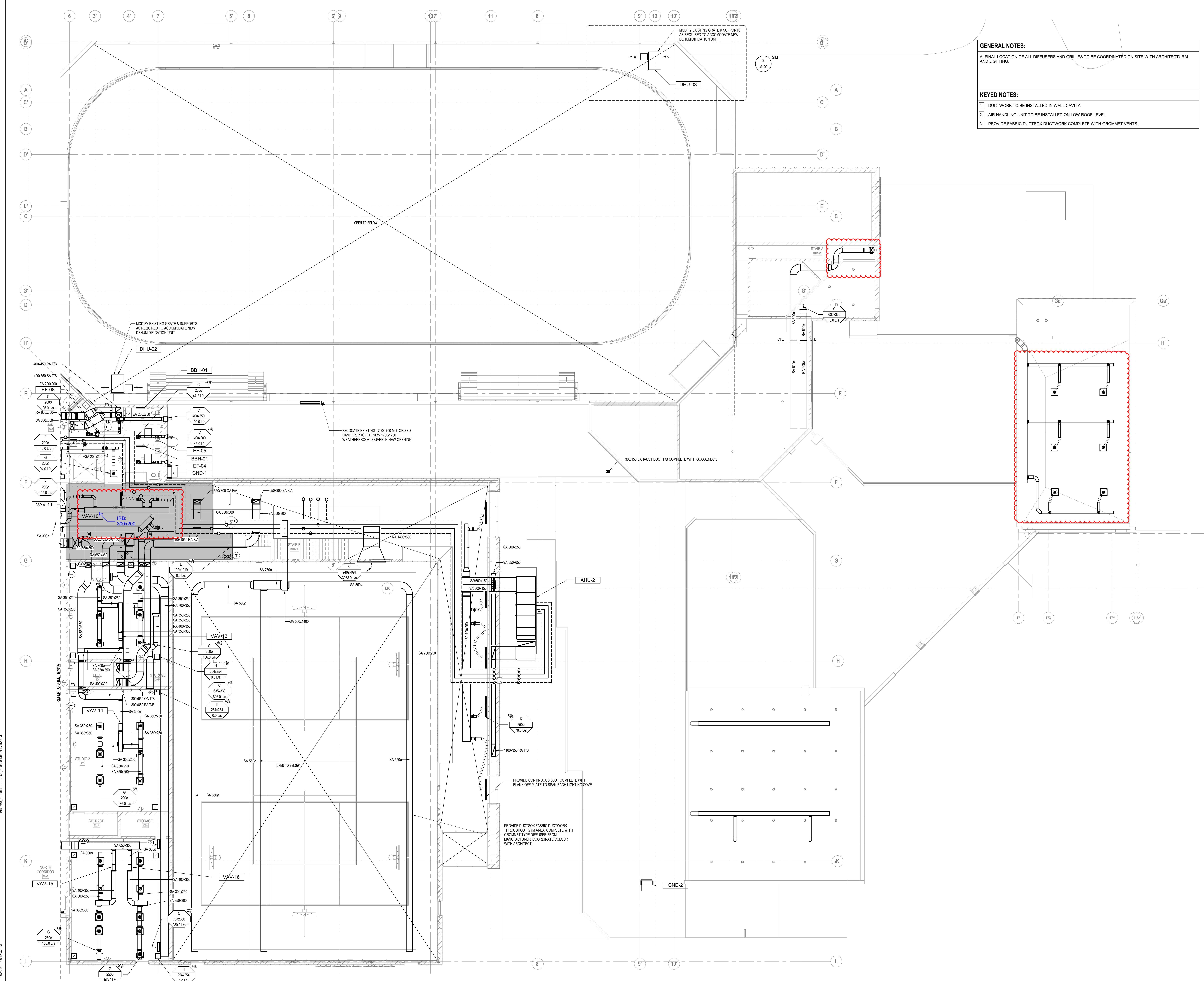
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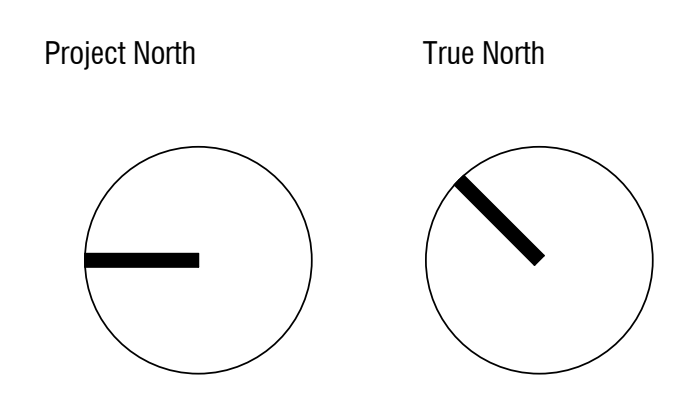
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12	2023-09-08	ISSUED FOR CONSTRUCTION

- GENERAL NOTES:**
- A. FINAL LOCATION OF ALL DIFFUSERS AND GRILLES TO BE COORDINATED ON SITE WITH ARCHITECTURAL AND LIGHTING.
- KEYED NOTES:**
1. DUCTWORK TO BE INSTALLED IN WALL CAVITY.
 2. AIR HANDLING UNIT TO BE INSTALLED ON LOW ROOF LEVEL.
 3. PROVIDE FABRIC DUCTSOX DUCTWORK COMPLETE WITH GROMMET VENTS.



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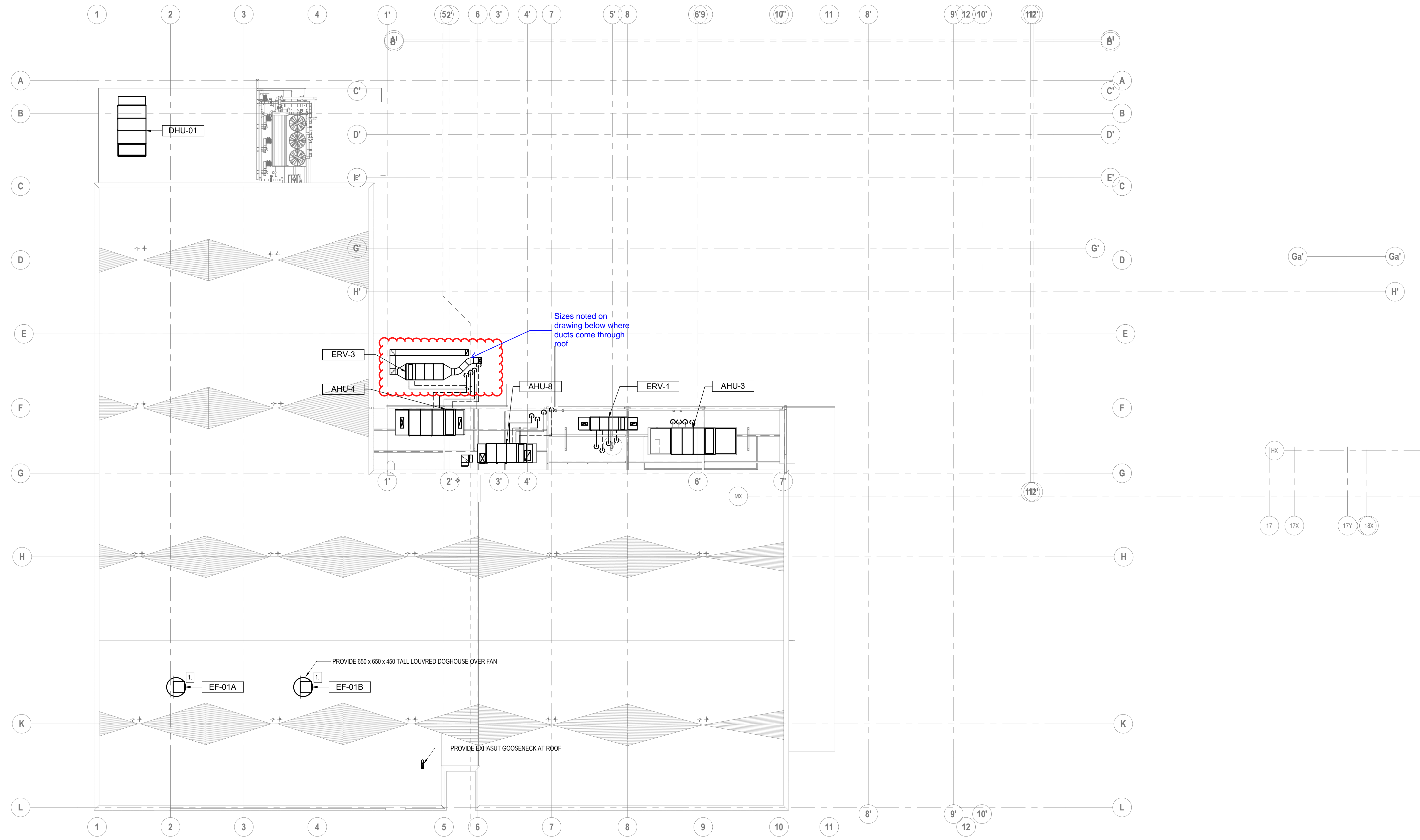


Chris Gibson Recreation Centre
 Renovation and Addition

125 McLaughlin Road North
 Brampton, ON
 L6Y 1Y7

LEVEL 02 - SOUTH HVAC PLAN

Scale: 1:100
 Project No: 210305
 Date: 2022-04-06



GENERAL NOTES:
 A. ROOF TOP DUCTWORK INSTALLATION TO BE PHASED AND COORDINATED WITH STRUCTURAL SCREENING AND KICKERS. REFER TO STRUCTURAL DRAWINGS.

KEYED NOTES:
 [1] PROVIDE GOOSENECK AT ROOF ABOVE FAN MOUNTED IN ROOF. REFER TO DETAILS.

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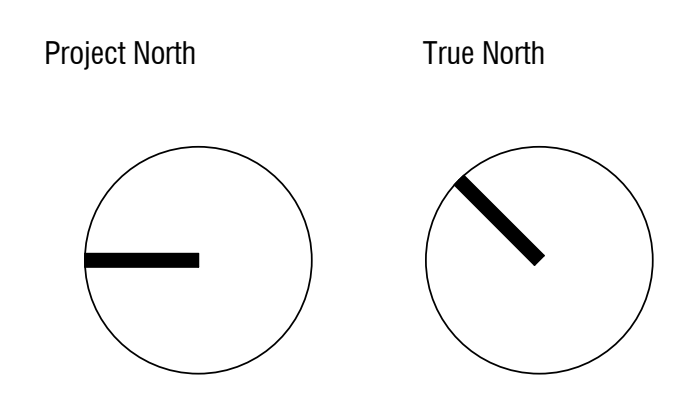
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ROOF - MECHANICAL PLAN
 1:200

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Chris Gibson Recreation Centre
 Renovation and Addition

125 McLaughlin Road North
 Brampton, ON
 L6R 1Y7

ROOF - OVERALL HVAC PLAN

Scale: 1:200
 Project No: 218305
 Date: 2022-04-06

M402

BM: 392 / 201911-12-09-13-00-14-00-15-00-16-00-17-00-18-00-19-00-20-00-21-00-22-00-23-00-24-00-25-00-26-00-27-00-28-00-29-00-30-00-31-00-32-00-33-00-34-00-35-00-36-00-37-00-38-00-39-00-40-00-41-00-42-00-43-00-44-00-45-00-46-00-47-00-48-00-49-00-50-00-51-00-52-00-53-00-54-00-55-00-56-00-57-00-58-00-59-00-60-00-61-00-62-00-63-00-64-00-65-00-66-00-67-00-68-00-69-00-70-00-71-00-72-00-73-00-74-00-75-00-76-00-77-00-78-00-79-00-80-00-81-00-82-00-83-00-84-00-85-00-86-00-87-00-88-00-89-00-90-00-91-00-92-00-93-00-94-00-95-00-96-00-97-00-98-00-99-00-100-00