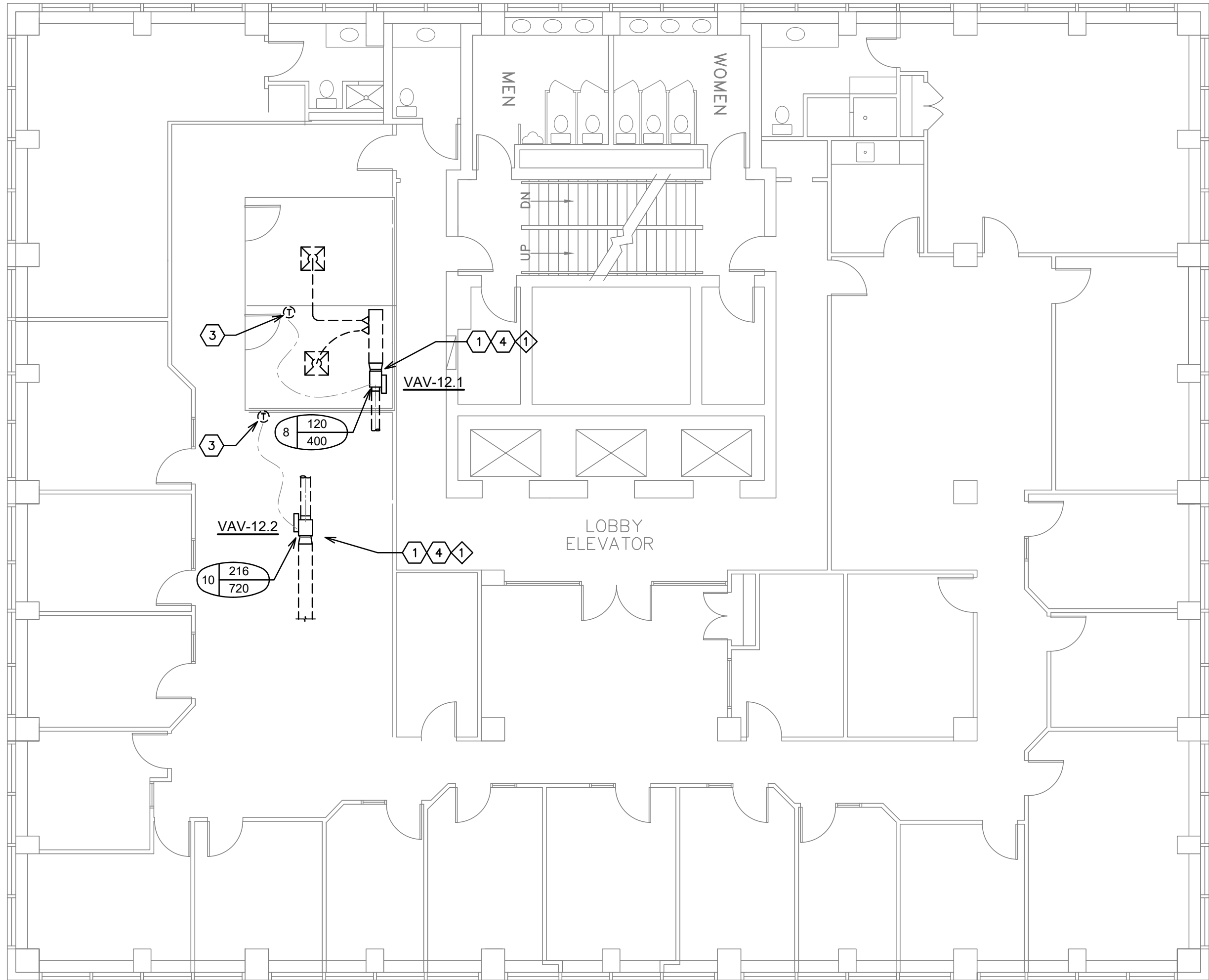
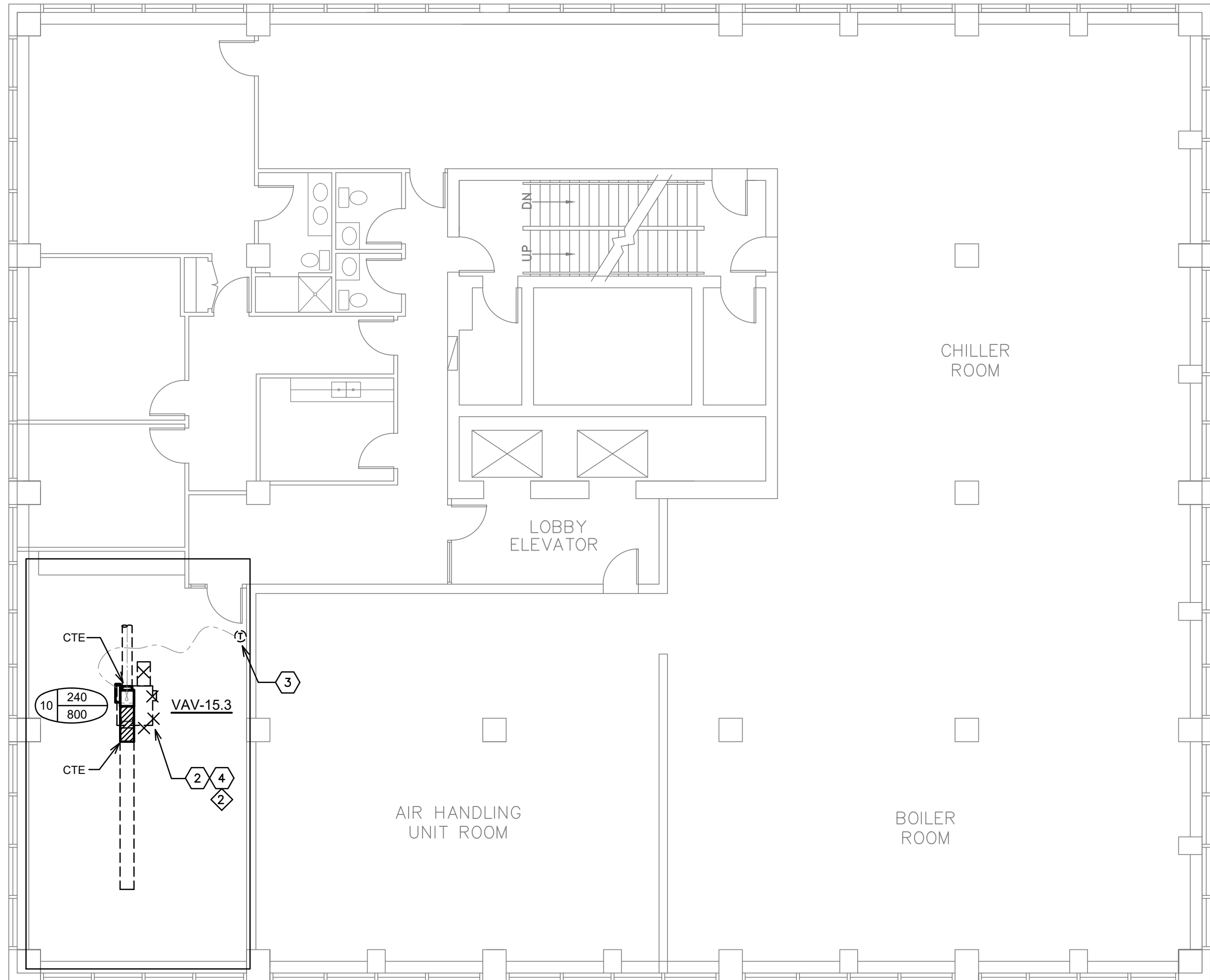


1 8TH FLOOR PLAN
M-02 1/8"=1'-0"



2 12TH FLOOR PLAN
M-02 1/8"=1'-0"



3 15TH FLOOR PLAN
M-02 1/8"=1'-0"

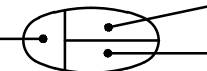
MECHANICAL CONSTRUCTION NOTES:

- 1 TROUBLESHOOT AND REPAIR EXISTING VAV BOXES, INCLUDING THE FOLLOWING:
 1. DETECT AIR FLOW AND TEMPERATURE PROBLEM.
 2. CHECK FLOW PROBLEM BY VERIFYING VELOCITY PRESSURE SENSOR OPERATION.
 3. CHECK FOR INCORRECTLY WIRED SENSOR/THERMOSTAT.
 4. CHECK DAMPER/ACTUATOR OPERATION. REPLACE ACTUATOR IF REQUIRED.
- 2 REMOVE EXISTING FAN POWER BOX, ACTUATOR AND CONTROLS. REPLACE WITH NEW VAV BOX AND ACTUATOR. RECONNECT ALL CONTROLS. RECONNECT DUCTWORK.
- 3 EXISTING THERMOSTAT TO REMAIN. CALBRATE SETTINGS TO SUIT NEW OR REPAIRED VAV BOX. TYPICAL FOR ALL.
- 4 BALANCE AIR QUANTITY OF ALL VAV BOXES AS SHOWN. TYPICAL.
- 5 UPDATE INFORMATION TO THE EXISTING BAS SYSTEM ON ALL CHANGES.
- 6 ALL NOISY WORK TO BE CARRIED IN OFF-OFFICE HOURS OR IN WEEKEND.

ELECTRICAL CONSTRUCTION NOTES:

- 1 CHECK ELECTRICAL POWER SERVING THE EXISTING VAV BOX IN GOOD WORKING CONDITION.
- 2 DISCONNECT POWER CONNECTION FROM EXISTING FAN POWER BOX AND RECONNECT TO NEW VAV BOX. EXTEND WIRING & CONDUIT TO SUIT. 24V TRANSFORMER AND LOW VOLTAGE WRING BY MECHANICAL CONTRACTOR.

VAV TERMINALS SCHEDULE

UNIT SIZE  MIN. AIR FLOW (CFM) SETTING
MAX. AIR FLOW (CFM) SETTING

UNIT SIZE	AIR QUANTITY CFM		MANUFACTURER	BASIS OF DESIGN MODEL	REMARKS
	MIN.	MAX.			
6	66	450	EH PRICE	SDV-8000	C/W INTEGRAL SOUND ATTENUATOR, ACTUATOR.
8	132	800	EH PRICE	SDV-8000	C/W INTEGRAL SOUND ATTENUATOR, ACTUATOR.
10	221	1350	EH PRICE	SDV-8000	C/W INTEGRAL SOUND ATTENUATOR, ACTUATOR.

NOTE: 1. MODEL TO MATCH EXISTING
2. ALTERNATIVES: NAILOR, TITUS.

No	Revisions	Date
4	ISSUED FOR TENDER	OCT.25.2023
3	ISSUED FOR 99% DESIGN SUBMISSION	JUL.14.2023
2	ISSUED FOR 66% DESIGN SUBMISSION	JUN.30.2023
1	ISSUED FOR 33% DESIGN SUBMISSION	JUN.16.2023

Orientation	Seal
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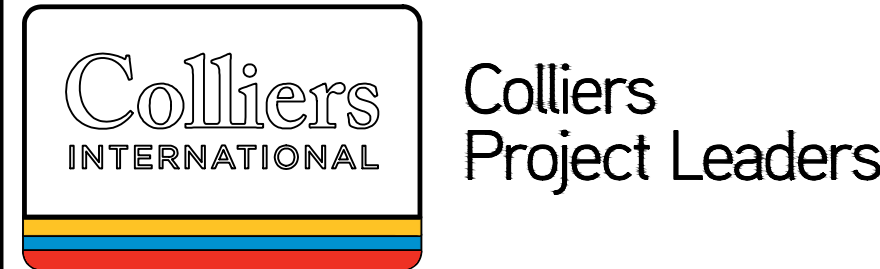
The Contractor shall check and verify all dimensions and report all errors and omissions to the IO-Owner's/MBS Designee (as applicable) for his/her written direction before proceeding with the Work.

A	A Detail No
B	B Sheet No where detailed



Vancouver Calgary
Edmonton Dauphin
Winnipeg Toronto
Thunder Bay
Ottawa Moncton
Saint John Truro
Halifax

Queen's Quay Terminal
207 Queen's Quay West, Suite 615
Toronto, Ontario, M5J 1A7
Tel: 416-598-2920
Fax: 416-598-5394
www.mcw.com



AMIS N B

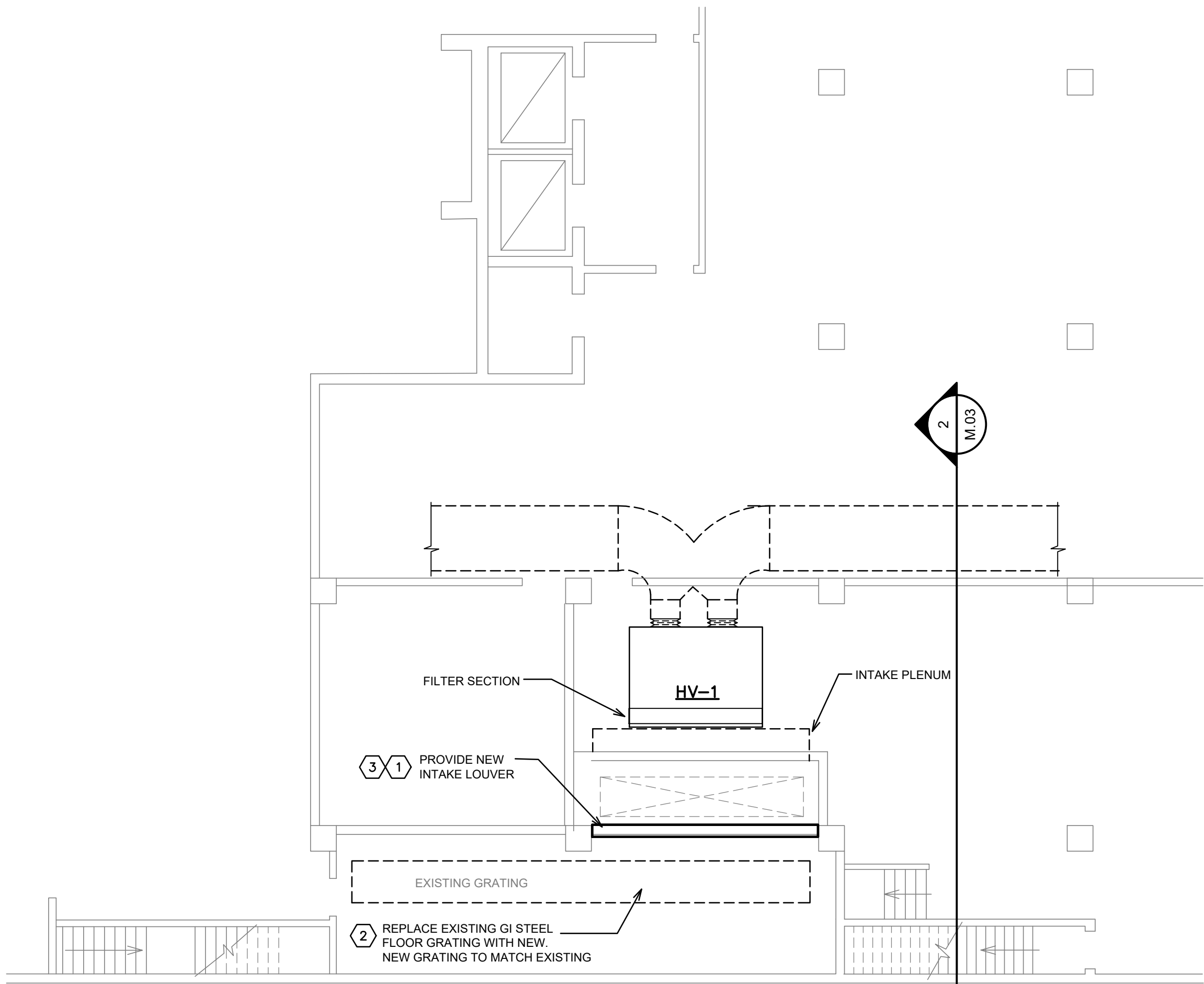
Project
REPAIR VAV & AHU

Location
**135 ST. CLAIR AVE. WEST
TORONTO, ONTARIO**

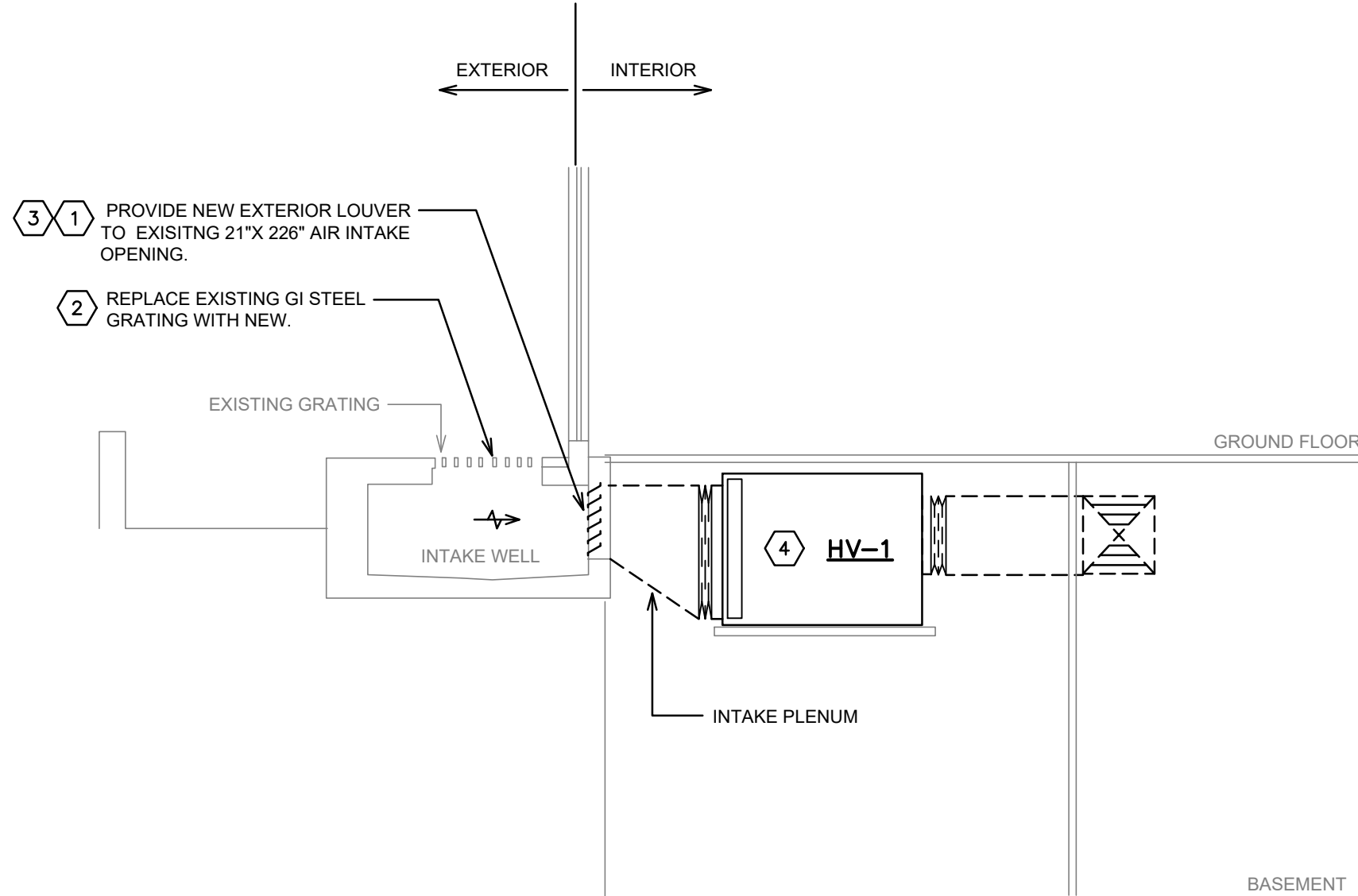
IO Project No 1064989 Site No N00394 Building No B17461

Client
COLLIERS PROJECT LEADERS

Drawing Title MECHANICAL FLOOR PLANS VAV BOXES REPLACEMENT	
Scale 1/8" = 1'-0"	Date JUNE, 2023
Drawn by E.T./M.F.	Substantial Performance Date 20201130
Designed by E.T./M.F.	Drawing No M-02
Approved by A.B./C.L.	CADD File NAME



1 BASEMENT MECHANICAL ROOM PART PLAN
M-03 1/8"=1'-0"



2 BASEMENT MECHANICAL ROOM SECTION
M-03 1/8"=1'-0"

MECHANICAL CONSTRUCTION NOTES:

- EXTERIOR LOUVER TO BE PROVIDED TO EXISTING AIR INTAKE OPENING, RE-USE EXISTING SUPPORT STEEL FRAME. 50% FREE AREA LOUVER C/W BUG SCREEN. LOUVER TO BE RUSKIN STATIONARY LOUVER MODEL ELF375XH OR EQUIVALENT. CONTRACTOR TO MEASURE LOUVER DIMENSIONS PRIOR TO ORDER. REFER TO PHOTOS ON DRAWING M-04.
- REPLACE EXISTING GI STEEL FLOOR MOUNTED STEEL GRATING. OVERALL GRATING DIMENSION 16'-5" X 3'-3". THE GRATING INCLUDES FIVE (5) PIECES 3' X 3'-3" AND ONE (1) PIECE 1'-5" X 3'-3" GRATINGS. REFER TO PHOTOS ON DRAWING M-04.
- PRE-BALANCE AHU AIR FLOW AND RECORD AIR QUANTITIES. RE-BALANCE AIR QUANTITIES AFTER EXTERIOR LOUVERS COMPLETE.
- THOROUGHLY CLEAN THE INTERIOR CASING OF THE AHU, REMOVING RUST, SCALE AND DEBRIS. PROVIDE COMPLETE INTERIOR COATING OF AHU

No	Revisions	Date
4	ISSUED FOR TENDER	OCT.25.2023
3	ISSUED FOR 99% DESIGN SUBMISSION	JUL.14.2023
2	ISSUED FOR 66% DESIGN SUBMISSION	JUN.30.2023
1	ISSUED FOR 33% DESIGN SUBMISSION	JUN.16.2023

Orientation	Seal
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The Contractor shall check and verify all dimensions and report all errors and omissions to the IO-Owner's/MBS Designee (as applicable) for his/her written direction before proceeding with the Work.

A	A Detail No
B	B Sheet No where detailed

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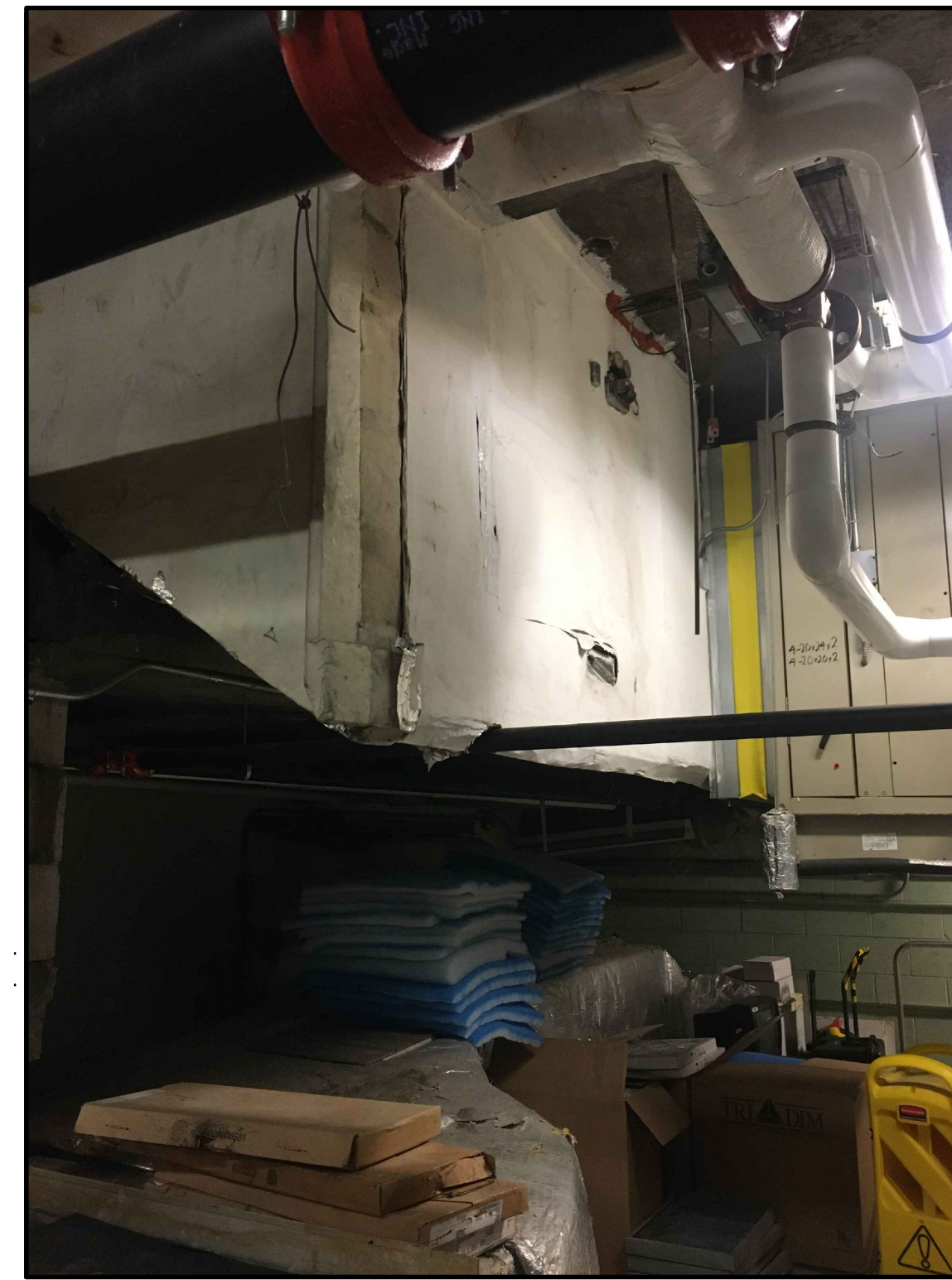
Queen's Quay Terminal
207 Queen's Quay West, Suite 615
Toronto, Ontario, M5J 1A7
Tel: 416-598-2920
Fax: 416-598-5394
www.mcw.com

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AMIS		N	B	
Project REPAIR VAV & AHU				
Location 135 ST. CLAIR AVE. WEST TORONTO, ONTARIO				
IO Project No 1064989		Site No N00394		Building No B17461
Client COLLIERS PROJECT LEADERS				
Drawing Title MECHANICAL PLANS AND DETAILS AHU REPAIR				
Scale 1/8" = 1'-0"		Date JUNE, 2023		
Drawn by E.T./M.F.		Substantial Performance Date 20201130		
Designed by E.T./M.F.		Drawing No M-03		
Approved by A.B./C.L.				
CADD File NAME				



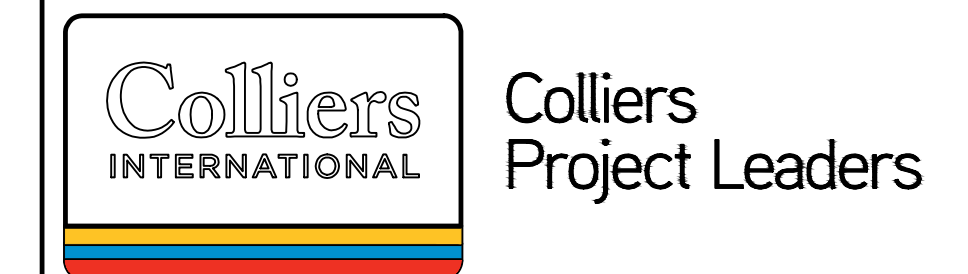
4	ISSUED FOR TENDER	OCT.25.2023
3	ISSUED FOR 99% DESIGN SUBMISSION	JUL.14.2023
2	ISSUED FOR 66% DESIGN SUBMISSION	JUN.30.2023
1	ISSUED FOR 33% DESIGN SUBMISSION	JUN.16.2023
No	Revisions	Date

Orientation	Seal
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The Contractor shall check and verify all dimensions and report all errors and omissions to the IO-Owner's/MBS Designee (as applicable) for his/her written direction before proceeding with the Work.

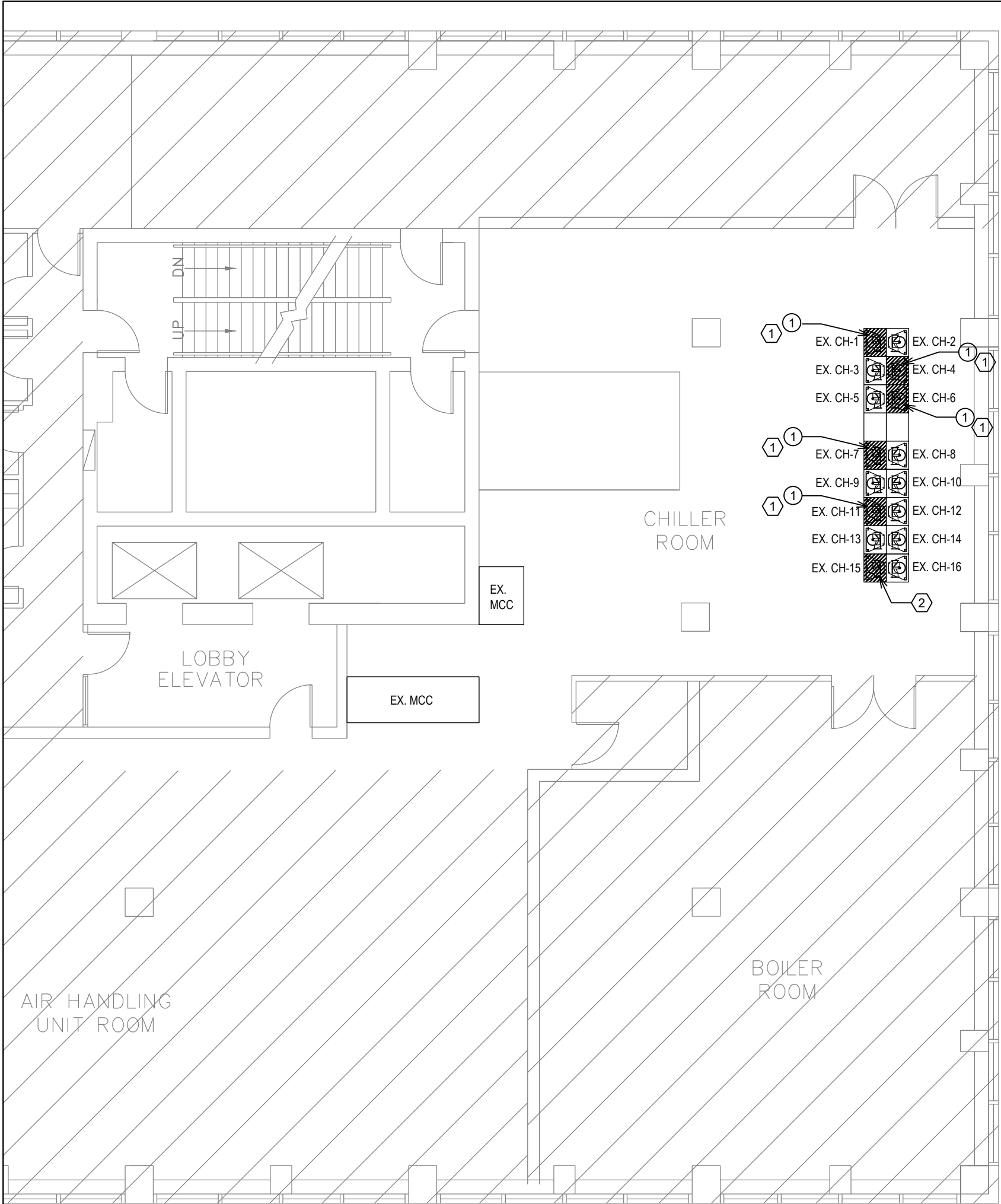
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B Sheet No where detailed

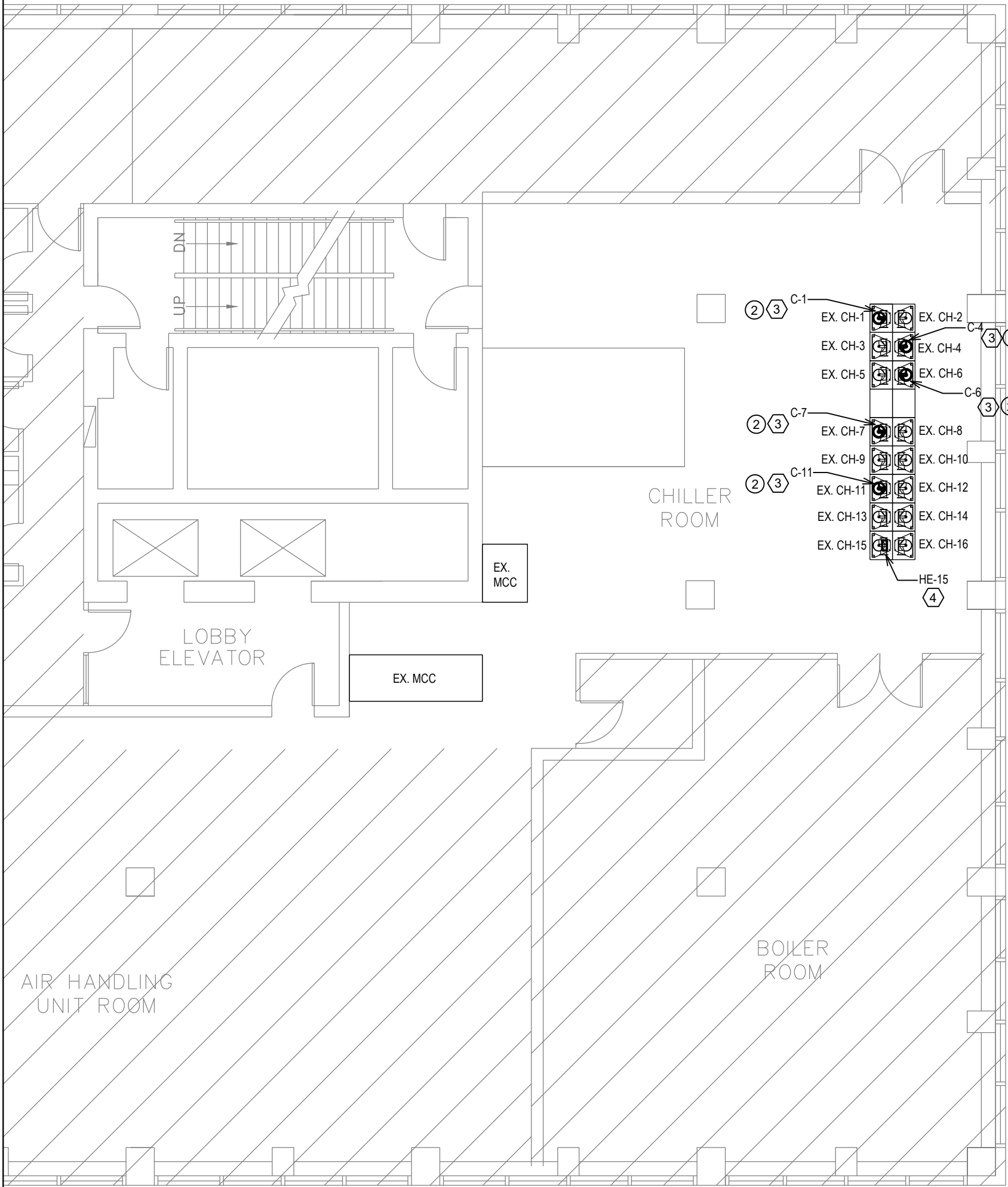


AMIS	N	B
Project		
REPAIR VAV & AHU		
Location		
135 ST. CLAIR AVE. WEST TORONTO, ONTARIO		
IO Project No	Site No	Building No
1064989	N00394	B17461
Client		
COLLIERS PROJECT LEADERS		

Drawing Title	
MECHANICAL SITE PHOTOS	
Scale 1/8" = 1'-0"	Date JUNE, 2023
Drawn by E.T./M.F.	Substantial Performance Date 20201130
Designed by E.T./M.F.	Drawing No M-04
Approved by A.B./C.L.	



1
ME-01
DEMOLITION PLAN
1/8"=1'-0"



2
ME-01
CONSTRUCTION PLAN
1/8"=1'-0"

GENERAL NOTES:	
NOTE:	DESCRIPTION:
1.	THIS DRAWING SET SHALL BE READ IN CONJUNCTURE WITH THE MECHANICAL SPECIFICATIONS PROVIDED.
2.	DO NOT SCALE DRAWINGS. LOCATIONS OF ITEMS ARE APPROXIMATE AND ARE INTENDED TO BE USED FOR COORDINATION. EXACT LOCATIONS AND DIMENSIONS ARE DEPENDENT UPON SITE CONDITIONS. REVIEW ANY REVISIONS WITH CONSULTANT.
3.	CO-ORDINATE EXACT TIE-IN AND SHUT DOWN DATES WITH OWNER. PROVIDE A MINIMUM OF ONE WEEK WRITTEN NOTICE PRIOR TO ANY SERVICE INTERRUPTIONS OR SHUT DOWNS.
4.	ALL EXISTING EQUIPMENT SHALL BE INSPECTED AND TESTED FOR PROPER OPERATIONS. REPORT RESULTS ON INSPECTION AND TESTING TO CONSULTANT.

ELECTRICAL KEYNOTES:	
KEYNOTE:	DESCRIPTION:
①	DISCONNECT POWER SUPPLY FROM REDUNDANT COMPRESSORS SERVING CHILLERS, CH-1, CH-4, CH-6, CH-7 AND CH-11.
②	RECONNECT POWER SUPPLY FOR NEW COMPRESSORS. EXTEND WIRING AND CONDUIT TO SUIT. TYPICAL FOR 5.

MECHANICAL KEYNOTES:	
KEYNOTE:	DESCRIPTION:
①	EXISTING COMPRESSORS SERVING CHILLERS, CH-1, CH-4, CH-6, CH-7 AND CH-11 TO BE REMOVED. CONTRACT TO ENSURE COORDINATION WITH LANDLORD REGARDING SHUT-DOWN PERIOD.
②	REMOVE HEAT EXCHANGER SERVING CH-15.
③	PROVIDE NEW CHILLER COMPRESSOR AS PER SCHEDULE ON ME-01. TYPICAL FOR 5. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
④	PROVIDE NEW HEAT EXCHANGER AS PER SCHEDULE ON ME-01. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.

NEW COMPRESSOR SCHEDULE									
TAG	DESCRIPTION	SERVING	MODEL #	MANUFACTURER	CAPACITY (BTU)	ELECTRICAL			REMARKS
						VOLTS	PHASE	HZ	
C-1	SCROLL HERMETIC TYPE COMPRESSOR	CH-1	ZR300KCE	COPELAND	300000	208-230	1	60	
C-4	SCROLL HERMETIC TYPE COMPRESSOR	CH-4	ZR300KCE	COPELAND	300000	208-230	1	60	
C-6	SCROLL HERMETIC TYPE COMPRESSOR	CH-6	ZR300KCE	COPELAND	300000	208-230	1	60	
C-7	SCROLL HERMETIC TYPE COMPRESSOR	CH-7	ZR300KCE	COPELAND	300000	208-230	1	60	
C-11	SCROLL HERMETIC TYPE COMPRESSOR	CH-11	ZR300KCE	COPELAND	300000	208-230	1	60	

NEW HEAT EXCHANGER SCHEDULE					
TAG	DESCRIPTION	SERVING	MODEL #	MANUFACTURER	REMARKS
HE-15	BRAZED PLATE -TYPE HEAT EXCHANGER	CH-15	DV-200	SWEP	SIZE, MATERIAL AND CONNECTION TYPE TO BE CONFIRMED BY CONTRACTOR PRIOR TO ORDERING.



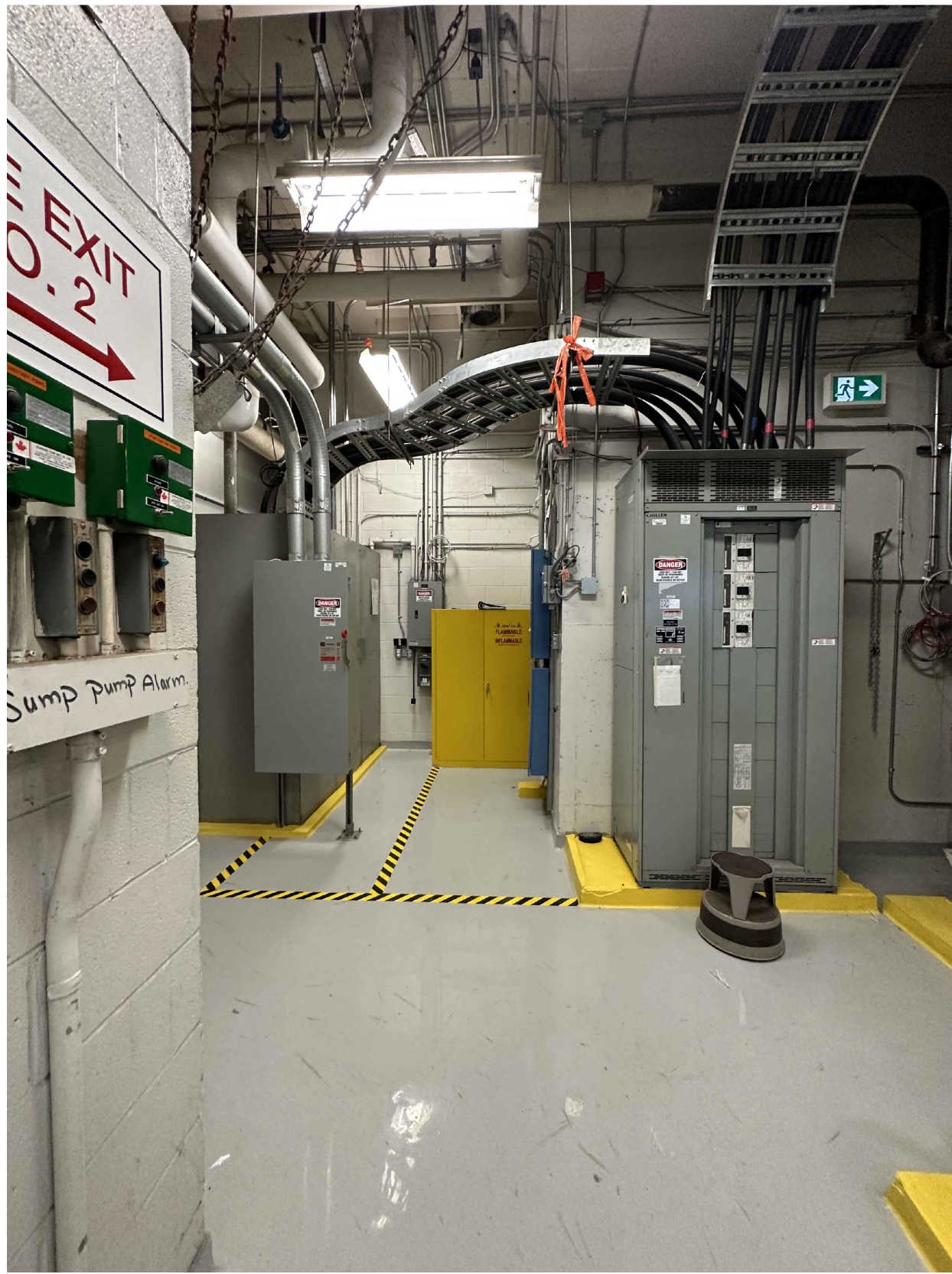
EXISTING MULTI-STACK CHILLER SETUP.



EXISTING ELECTRICAL MCC PANEL, MCC.



EXISTING CHILLER COMPRESSORS CH-11, CH-13 AND CH-15.



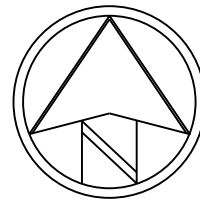
EXISTING ELECTRICAL SETUP.

23144-01

SEAL:

PERMIT:

KEY PLAN:



03	ISSUED FOR TENDER	2023-10-25
02	ISSUED FOR 99% REVIEW	2023-10-13
01	ISSUED FOR 66% REVIEW	2023-09-22
No.	Issuance	Date

COLLIERS		
COMPRESSOR REPLACEMENT - 135 ST. CLAIR AVE W		
PROJECT NO:	23144-01	DRAWN:
SCALE:	AS INDICATED	CW
ISSUED:	13 OCTOBER, 2023	AB

SHEET NAME:	
15TH FLOOR CHILLER ROOM	
SHEET NUMBER:	
ME-01	