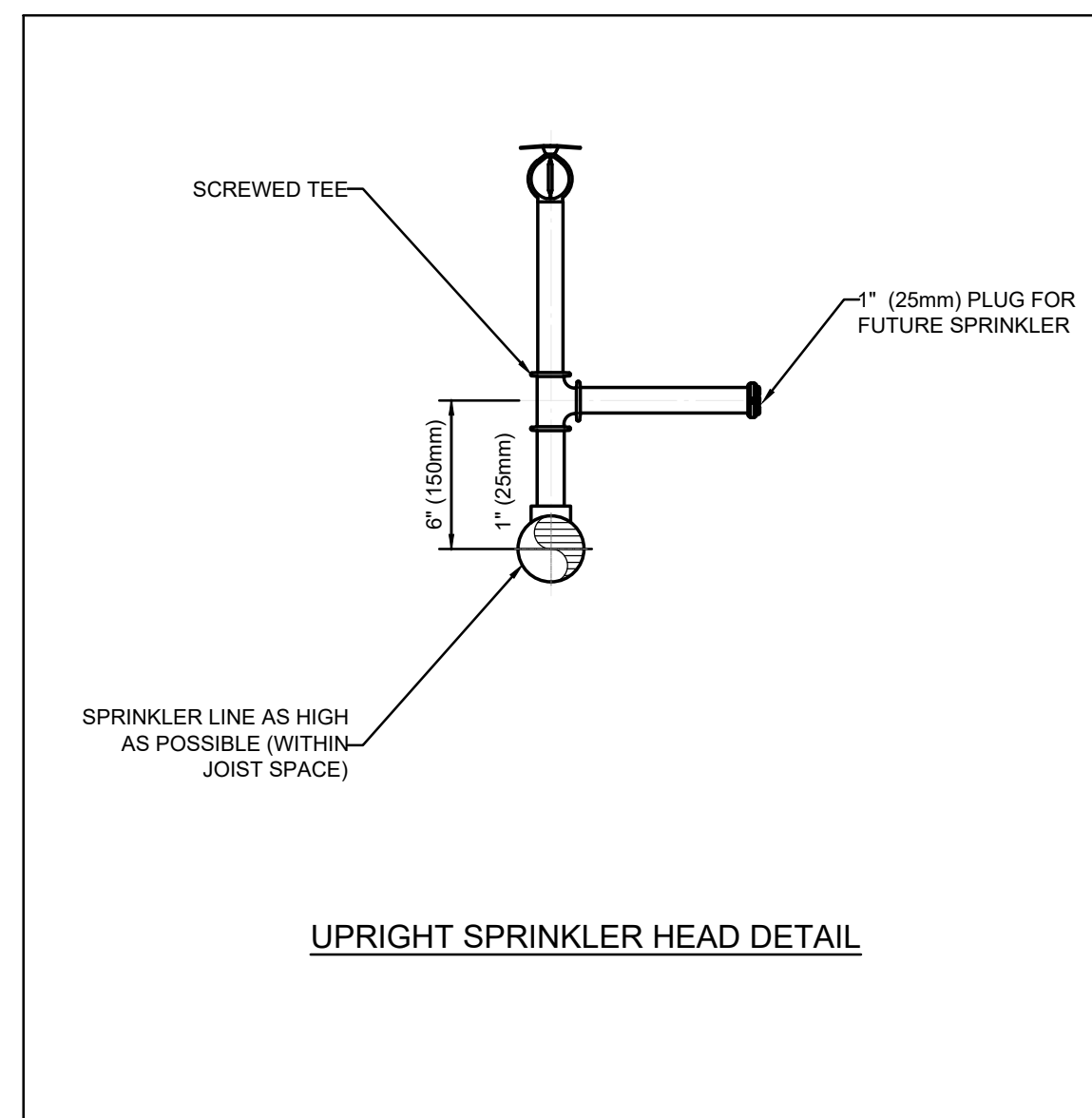
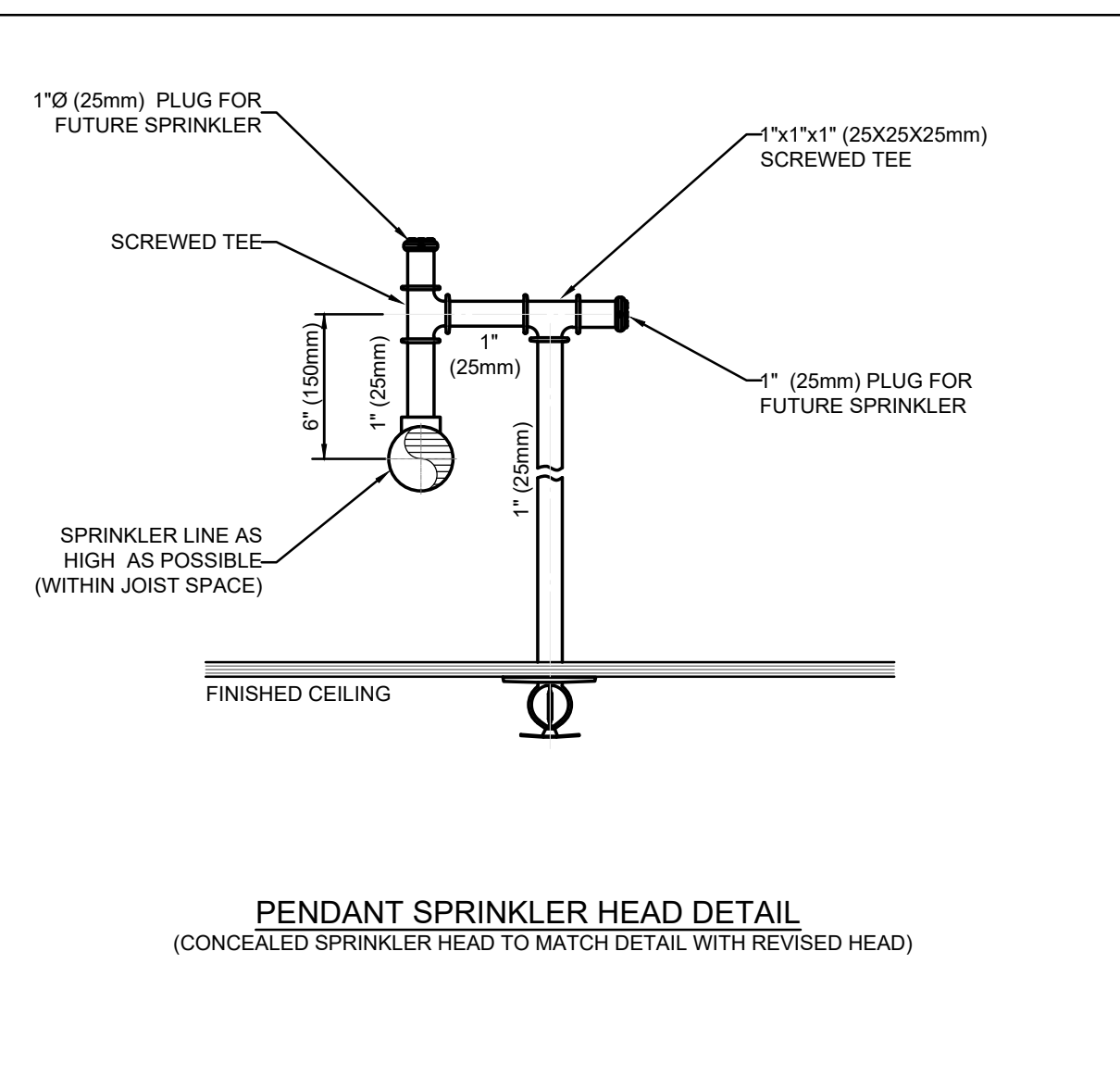


**1 SCHEMATIC DIAGRAM OF EMERGENCY EYEWASH**  
M000 SCALE: N.T.S



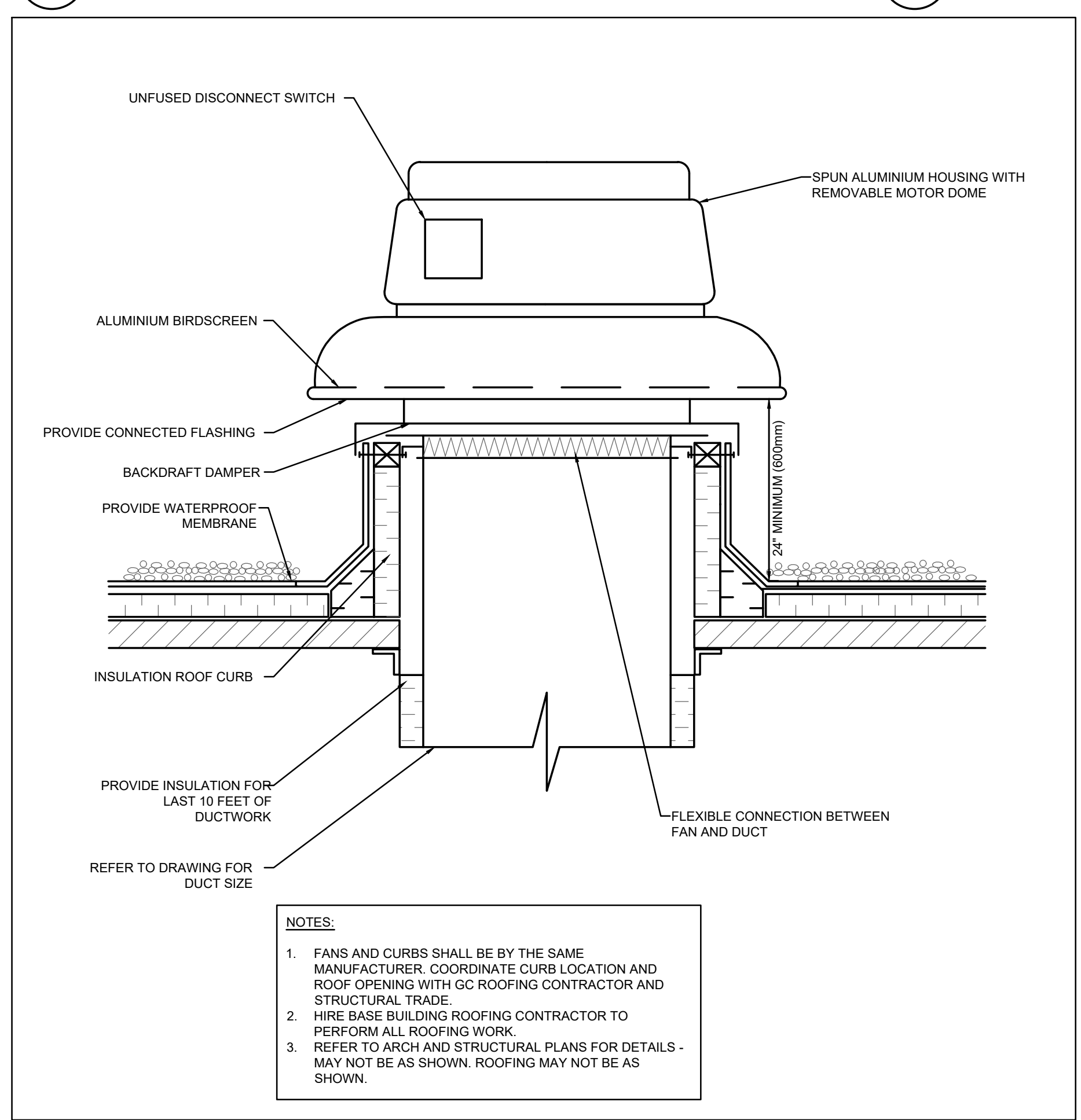
**2 TYPICAL SPRINKLER HEAD INSTALLATION**  
M000 SCALE: N.T.S



**PENDANT SPRINKLER HEAD DETAIL**  
(CONCEALED SPRINKLER HEAD TO MATCH DETAIL WITH REVISED HEAD)

DRAWING No.	DESCRIPTION	SCALE
M000	LEAD SHEET	N.T.S.
M001	SCHEDULES	N.T.S.
M002A	SPECIFICATIONS	N.T.S.
M002B	SPECIFICATIONS	N.T.S.
M100	MECHANICAL FLOOR PLAN - PD	1/4"=1'-0"
M200	MECHANICAL FLOOR PLAN - HVAC	1/4"=1'-0"
M300	MECHANICAL FLOOR PLAN - FP	1/4"=1'-0"
MD100	MECHANICAL DEMOLITION FLOOR PLAN - PD	1/4"=1'-0"
MD101	MECHANICAL DEMOLITION FLOOR PLAN - HVAC	1/4"=1'-0"
MD102	MECHANICAL DEMOLITION FLOOR PLAN - FP	1/4"=1'-0"

LEGEND		
	VALVE	
	HOSE-END DRAIN VALVE	
	CHECK VALVE	
	PRESSURE REDUCING VALVE	
	REDUCER	
	CIRCUIT BALANCING VALVE	
	SAFETY RELIEF VALVE	
	BUTTERFLY VALVE	
	PIPE UP	
	PIPE DOWN	
	DIRECTION OF FLOW	
	CAPPED PIPE	
	UNION	
	STRAINER	
	PUMP	
	PRESSURE GAUGE	
	STARTER	
	FAN SPEED CONTROLLER	
	THERMOMETER	
	METER	
	THERMOSTAT	
	TO DRAIN	
	NEW CONTROL WIRE	
	SUPPLY OR OUTSIDE AIR DUCT	
	RETURN OR EXHAUST AIR DUCT	
	SUPPLY DUCT DOWN	
	RETURN DUCT DOWN	
	SUPPLY AIR GRILL	
	SUPPLY AIR DIFFUSER	
	ROUNDED SUPPLY AIR DIFFUSER	
	SIZE TYPE FLOW (CFM)	
	AIRFLOW	
	MANUAL BALANCING DAMPER	
	HOSE BIB	
	FLOOR DRAIN	
	ROOF DRAIN	
	DRAIN WITH CLEANOUT IN CEILING SPACE	
	DRAIN WITH CLEANOUT UP TO FLOOR	
	DRAIN WITH CLEANOUT UP TO FLOOR	
	P-TRAP	
	UPRIGHT SPRINKLER HEAD	
	CONCEALED SPRINKLER HEAD	
	FIRE EXTINGUISHER	
	NEW DOMESTIC COLD WATER	
	NEW DOMESTIC HOT WATER	
	NEW DOMESTIC HOT WATER RECIRCULATION	
	EXISTING DOMESTIC COLD WATER	
	EXISTING DOMESTIC HOT WATER	
	EXISTING DOMESTIC HOT WATER RECIRCULATION	
	NEW DOMESTIC TEMPERED WATER	
	NEW SANITARY DRAIN	
	EXISTING SANITARY DRAIN	
	DEMO SANITARY DRAIN	
	NEW BURIED SANITARY DRAIN	
	EXISTING BURIED SANITARY DRAIN	
	DEMO BURIED SANITARY DRAIN	
	NEW STORM DRAIN	
	EXISTING STORM DRAIN	
	DEMO STORM DRAIN	
	NEW BURIED STORM DRAIN	
	EXISTING BURIED STORM DRAIN	
	DEMO BURIED STORM DRAIN	
	MECHANICAL DEMOLITION EQUIPMENT	
	MECHANICAL EXISTING EQUIPMENT	
	MECHANICAL NEW EQUIPMENT	



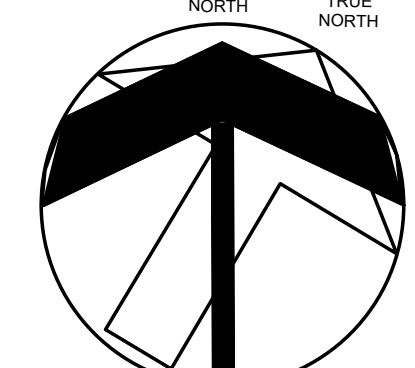
**3 ROOF MOUNTED DOWNBLAST EXHAUST FAN**  
M000 SCALE: N.T.S

**GENERAL CONDITIONS:**

- BE ADVISED THAT THE REMOVAL OF ALL REDUNDANT ELECTRICAL EQUIPMENT AND ASSOCIATED COMPONENTS SHALL BE INCLUDED IN THE CONTRACT. CONFIRM IN ADVANCE OF REMOVAL WITH THE CONSULTANT ANY COMPONENT THAT CONTRACTOR HAS CONCERN OR QUESTIONS AS TO ITS STATUS AND OR CONDITION.
- BASE BUILDING TRADE TO BE CARRIED FOR THERMOSTAT RELOCATIONS, VAV BOX / AIR BALANCING: HONEYWELL MOISES ASENCIO - MOISES.ASENCIO@HONEYWELL.COM OR AYUSH SAXENA AYUSH.SAXENA@HONEYWELL.COM
- SENECA REQUIRES THE AS-BUILT DRAWINGS IN THE FOLLOWING FORMATS, ONE SET IN AUTOCAD FORMAT AND ONE PDF SET SAVED ON A USB.
- HOT WORK PERMIT FORM TO BE SUBMITTED TO SENECA 48 HOURS PRIOR TO THE FOLLOWING WORK BEING COMPLETED: SPRINKLER DRAIN DOWN, SMOKE ALARM BYPASS, SHUT OFF ISOLATION VALVE, FIRE STANDPIPE DRAIN DOWN OR OTHER.
- WET SPRINKLER GENERAL NOTES:**
  - THE BUILDING IS SPRINKLERED. CONTRACTOR TO ADD AND/OR RELOCATE SPRINKLER HEADS WHERE REQUIRED OR AS PER DRAWINGS TO SUIT NEW CEILING AND PARTITION LAYOUTS.
  - FOR SPRINKLER RELOCATIONS, REUSE EXISTING SPRINKLER PIPES WHERE APPLICABLE AND PROVIDE NEW SPRINKLER HEADS AT NEW LOCATIONS. DO NOT REUSE SPRINKLER HEADS AT NEW LOCATIONS.
  - ALL IN THE TENDER PRICE SPRINKLER HEAD VARIANCE OF UP TO (10) (WILL VARY DEPENDING ON PROJECT) HEADS. THE PROPOSED SPRINKLER LAYOUT SHOWN ON THIS DRAWING IS FOR GENERAL INTENT AND PRICING ONLY. IT IS THE RESPONSIBILITY OF THE SUCCESSFUL CONTRACTOR TO DESIGN AND BUILD A COMPLETE SPRINKLER SYSTEM TO SUIT THE NEW LAYOUT AND COMPLY WITH THE REQUIREMENTS OF THE NFPA-13 LATEST EDITION.
  - HYDRAULIC CALCULATIONS ARE REQUIRED FOR THE PROJECT.
  - CONTRACTOR SHALL READ THIS DRAWING THOROUGHLY AND IN CONJUNCTION WITH ALL OTHER DRAWINGS, ESPECIALLY ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS. ADD LOCATE HEADS AS REQUIRED TO SUIT SITE CONDITIONS AND/OR INTERIOR DESIGN FEATURES. SUBMIT ALL CHANGES AND / OR EXTRAS WITH MARKED-UP DRAWINGS FOR REVIEW PRIOR TO STARTING THE WORK. IF NO CHANGES ARE SUBMITTED, THE CONTRACTOR IS ACKNOWLEDGING THE SPRINKLER TENDER LAYOUT IS PROPER AND WILL BUILD THE SYSTEM ACCORDINGLY. NO EXTRAS WILL BE ENTERTAINED AFTER THE WORK IS STARTED. IF CONTRACTOR MUST MODIFY THE WORK AS DEEMED NECESSARY BY THE INSPECTOR DURING FINAL INSPECTIONS THIS SHALL BE COMPLETED AT NO EXTRA COST TO SENECA.
  - ALL SPRINKLER WORK MUST BE PERFORMED BY THE BASE BUILDING SPRINKLER CONTRACTOR.
  - SPRINKLER CONTRACTOR TO PROVIDE STAMPED COMPLETION CERTIFICATE AFTER COMPLETION OF THE WORK TO THE SATISFACTION OF THE FIRE MARSHAL AND LOCAL AUTHORITIES HAVING JURISDICTION. INCLUDE FOR ALL NECESSARY HYDRAULIC CALCULATIONS.
- CLOSE OUT DOCUMENTATION REQUIRED BY THE CLIENT:
  - PROVIDE THE FOLLOWING DOCUMENTATION TO SENECA, GC AND ENGINEER UPON COMPLETION OF THE PROJECT.
  - ONE PDF AND CAD FILE OF "AS-BUILT" DRAWINGS.
  - WRITTEN GUARANTEE.
- MANDATORY TRADES TO BE ENGAGED
  - BASE BUILDING CONTROLS, SPRINKLER, FIRE ALARM - EACH SITE HAS DIFFERENT VENDORS CHECK WITH SENECA PROJECT MANAGER FOR COMPANY AND CONTACT.

**GENERAL NOTES:**

- ALL DEMOLITION SHALL BE IN ACCORDANCE WITH BASE BUILDING STANDARDS.
- REFER TO RFP DOCUMENTS & ISSUED FOR TENDER DRAWING SET DURING THE TENDERING PROCESS PRIOR TO SUBMITTING BID. INCLUDE ALL REQUIREMENTS AS REQUESTED.
- REFER TO ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR FURTHER PROJECT SCOPE NOTES.
- COORDINATE MECHANICAL SCOPE WITH ALL OTHER DISCIPLINES PRIOR TO COMMENCING INSTALLATION. MECHANICAL SHALL TAKE LEAD ROLLS ON PREPARING COORDINATION DRAWINGS WITH ALL OTHER DISCIPLINES.
- THESE DRAWINGS ARE NOT INTENDED TO DEPICT ALL EXISTING CONDITIONS. NOT ALL EXISTING INFORMATION HAS BEEN SHOWN FOR CLARITY PURPOSES. SITE VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS AND INCLUDE IN BID ALL MATERIAL AND LABOUR REQUIRED TO SUIT EXISTING CONDITIONS.
- NOTIFY ENGINEER/ TENANT OF ANY DEFICIENCIES IN EXISTING SYSTEMS PRIOR TO COMMENCING WORK.
- ALL EXISTING BASE BUILDING SYSTEMS WHICH ARE NOT INCLUDED IN THE SCOPE OF WORK SHALL REMAIN AS IS AND BE PROTECTED FROM DAMAGE FOR THE DURATION OF THE CONSTRUCTION.
- THE MECHANICAL CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID AND INCLUDE FOR MATERIAL AND LABOR AS REQUIRED TO PROVIDE A CODE COMPLIANT SYSTEM.
- THE SPRINKLER CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID AND INCLUDE FOR MATERIAL AND LABOR AS REQUIRED TO PROVIDE A FULLY NFPA 13 CODE COMPLIANT SPRINKLER SYSTEM AS PART OF THEIR SCOPE OF WORK. THE SCOPE OF WORK SHOWN IS SCHEMATIC IN NATURE AND DOES NOT DEPICT ALL EXISTING CONDITIONS. THE SPRINKLER ENGINEER SHALL PROVIDE AN NFPA 13 SIGN OFF LETTER AT THE COMPLETION OF THE PROJECT.
- MAKE ALL PENETRATION WATER TIGHT. WHERE PENETRATING A FIRE RATED SEPARATION, FIRE PROOF THE SEPARATION TO MATCH THE EXISTING SEPARATION RATING. PROVIDE ALL PLUMBING SYSTEMS IN ACCORDANCE WITH LOCAL PLUMBING CODES AND BY LAWS.
- HIRE BASE BUILDING SPRINKLER CONTRACTOR TO PERFORM ALL WORK. INCLUDE THEIR COST IN MECHANICAL BID.
- PROVIDE FULL SCOPE AND LOCATE INCLUDING CONDITION AUDIT OF EXISTING SANITARY PIPING WITHIN THE SCOPE OF WORK AREA NOTING ANY DEFECTIVE PIPING OR AREAS OF RATING. INCLUDE FOR FLUSH OF THE SYSTEM TO REMOVE ALL DEBRIS.
- MAKE GOOD ALL MATERIALS, AND FINISHES WHERE DISTURBED AND WHERE ALTERATIONS OCCUR REFER TO ALL DRAWINGS FOR FULL EXTENT OF WORK REQUIRED. NOTE THAT MAKING GOOD INCLUDES WORK ASSOCIATED WITH THE INSTALLATION OF SERVICES ETC. SHOWN ON ALL DRAWINGS. REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL FOR ALL ASSOCIATED DEMOLITION WORK.
- ALL WORK AFFECTING ADJACENT TENANTS SHALL BE DONE AFTER HOURS.
- COORDINATE TIMING OF ALL DEMOLITION ON SITE WITH OWNER AND GENERAL CONTRACTOR. ALLOW FOR ANY/ALL DEMOLITION TO BE COMPLETED AFTER HOURS IF REQUIRED.
- ALL EXISTING BASE BUILDING SYSTEMS WITHIN THE SPACE SHALL REMAIN AS IS AND BE PROTECTED FROM DAMAGE FOR THE DURATION OF THE CONSTRUCTION.
- PROVIDE ALL AS-BUILT AND CLOSE OUT INFORMATION TO THE CLIENT FOR RECORD PURPOSE.




PROJECT NORTH TRUE NORTH


NO	REVISIONS	DATE
4	ISSUED FOR TENDER	04/12/2024
3	ISSUED FOR PERMIT	04/03/2024
2	ISSUED FOR COORDINATION	04/01/2024
1	ISSUED FOR COORDINATION	03/27/2024
NO	ISSUED	DATE

**SENECA ENGINEERING LAB AT NH K3170**


SENECA COLLEGE, NEWNHAM CAMPUS  
1750 FINCH AVE E., TORONTO



**LEAD SHEET**



**HAMMERSCHLAG & JOFFE INC.**  
43 Lesmill Road, Toronto, Ontario  
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F: (416) 444-3463  
E: dwg@hamjof.com



**ARTIFACT**  
DESIGN + DEVELOPMENT

31 PLYMBOURGE CRESCENT, TORONTO, ON M2P 1P4	TEL: 416-414-7095
SCALE AS INDICATED	PROJECT
DATE: 03/22/2024	24-018-007
DRAWN BY: A.N.-T.M.M.	DRAWING
CHECKED BY: D.J.	M000

AIR TERMINAL SCHEDULE									
ITEM	MANUFACTURER	TYPE	MODEL	SIZE	MOUNTING	FINISH	FRAME/BORDER	COMMENTS	
A	E.H. PRICE	ROUND CONE DIFFUSER	RCD	AS NOTED	DUCT	WHITE POWDER FINISH	N/A		
B	E.H. PRICE	EGGRATE FACE RETURN	80SR	600MMx600MM	T-BAR	WHITE POWDER FINISH	SURFACE		

NOTES: - VERIFY QUANTITY AND ADDITIONAL SIZE INFORMATION ON DRAWINGS  
 - ALL FINISHING AND MOUNTINGS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.  
 - ALL SCREW HOLES WHERE APPLICABLE TO BE COUNTER SUNK

FAN SCHEDULE																			
ITEM	SERVICE	LOCATION	MANUFACTURER	MODEL	TYPE	CAPACITY		EXTERNAL STATIC PRESSURE		MOTOR POWER		FAN	VFD	VARIABLE FLOW	ELECTRICAL	WEIGHT		CONTROLS	COMMENTS
						(CFM)	(L/S)	(IN.H2O)	(PA)	(HP)	(KW)					(LBS)	(KG)		
EF-1	CAPSTONES & MAKER SPACES	ROOF	COOK	101C17D (VF)	ACE-D	650	307	0.50	124.42	0.13	0.1	1641	N	N	120/1/60	53	24	TIED INTO BAS	C/W GALVANIZED STEEL ROOF CURB

NOTES: - PROVIDE LOCAL DISCONNECTS AND STARTERS FOR ALL FANS.  
 - FANS TO BE COMPLETE WITH BACKDRAFT DAMPERS.  
 - PROVIDE ALL SUPPORTS FOR INDOOR FANS AS REQUIRED INCLUDING VIBRATION ISOLATION.

**model 7360BT-7460BT**  
ANION® MSB Wall Mount Eye/Face Wash

**FEATURES & BENEFITS**

**QUALITY CONTROL**  
Eye/face wash and valve assembly is pre-built and fully water/pressure tested to ensure no leaks and proper function which ultimately reduces installation time and gives the end customer an added peace of mind. Unit also ships with pre-assembled cast aluminum wall bracket to assist in the installation process.

**BOWL**  
The 11" (27.9 cm) round stainless steel receptor is supplied with a No. 20 finish brush on its exterior.

**BALL VALVE**  
Valve is designed to make the flushing of fluid occur with the push of a stainless steel ball and is equipped with a stainless steel ball and stem to provide added protection against corrosion and leakage.

**INLINE FILTER**  
Chrome-plated brass in-line 50 x 50 mesh water strainer prevents debris from reaching the eyes/wash so the unit stays functioning at its best. Strainer is easily removable.

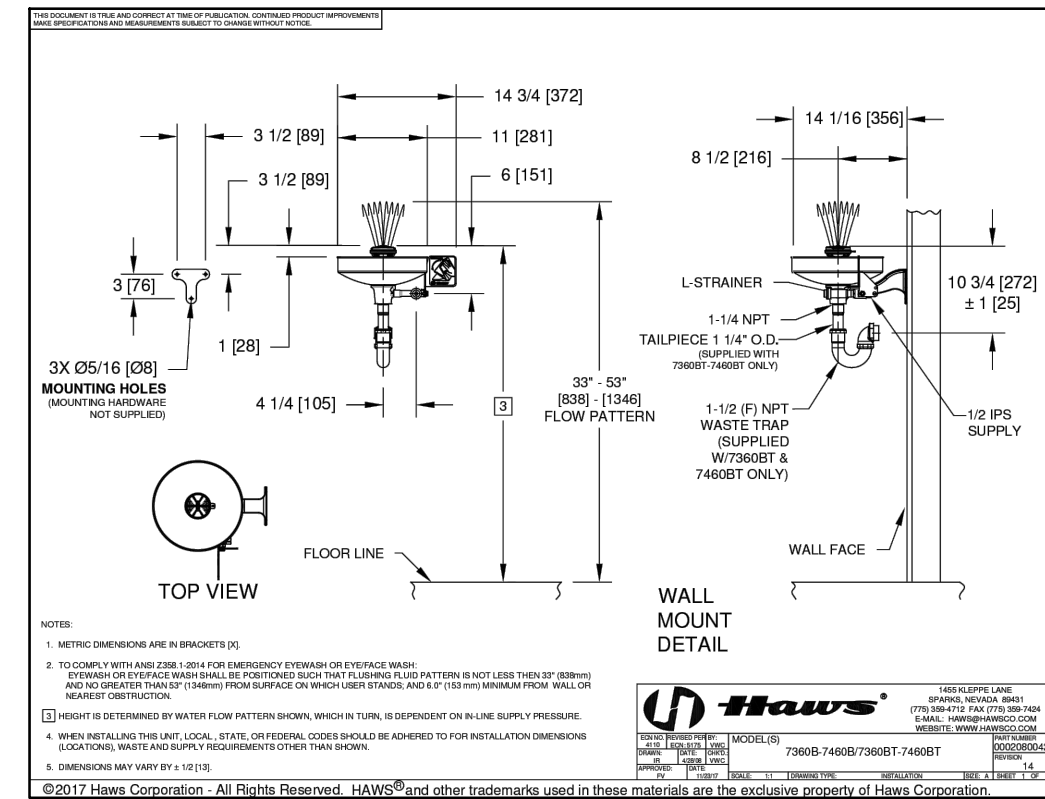
**EYE/FACE WASH HEAD**  
ANION® MSB eye/face wash head uses an inverted directional laminar flow to avoid contaminants away from the vulnerable head cavity.

**DETECTION/INSPECTION**  
7" x 10-1/2" (20.3 x 27.3 cm) universal emergency sign make the unit easily detected in an emergency. Test card to reveal wash checks helps maintain the units best working quality.

**OPTIONS**

- Solid Protect Bleed Valve: Model 19127A, stainless steel used protection bleed valve. Automatic thermal actuator bleed valve opens when internal water temperature reaches 99°F (36°C) and closes at 95°F (35°C).
- Thermostatic Mixing Valve: Model 9001S, 1.2" 120 VAC emergency alarm and light system. Heater and flaring light are activated by a 1.2" 120 VAC double pole, double throw flow switch.
- Dual Cover: Model 1102 is a stainless steel cover that protects the eyes/wash heads as well as the bowl.

For more information, visit [www.haws.com](http://www.haws.com) or call (888) 640-4297.



**model TWBS.EWE**  
ANION® Thermostatic Mixing Valves

**FEATURES & BENEFITS**

**HAWS ORIGINAL**  
Designed and manufactured with domestic and foreign parts in the US by Haws.

**BYPASS**  
Bypass provides cold water bypass flow (80% of rated tempered water flow) means confined protection under adverse conditions.

**POSITIVE SHUT OFF**  
Actively suspends hot water flow when cold water supply is lost to protect against scalding.

**PRESSURE DROP**  
Lowest internal pressure drop for this valve class - essential where supply pressure is low.

**OPERATING RANGE**  
Minimal outlet temperature variation is achieved by having the best minimum flow rate in the industry.

**SHUTLE DESIGN**  
Superior shuttle design combined with premium material selection eliminates valve binding and reduces maintenance costs.

**MIXING CHAMBER**  
Innovative funnel design generates turbulent flow to ensure consistent temperature blending across entire flow range.

**LOW LEAD DESIGN**  
Certified to NSF61 and California Health and Safety Code 116875 (AB 193-2006).

**FLOW RATE**  
Flow range of 1 to 12 GPM (4.5 L) provides service for one or two safety eye-washes to reduce hardware costs.

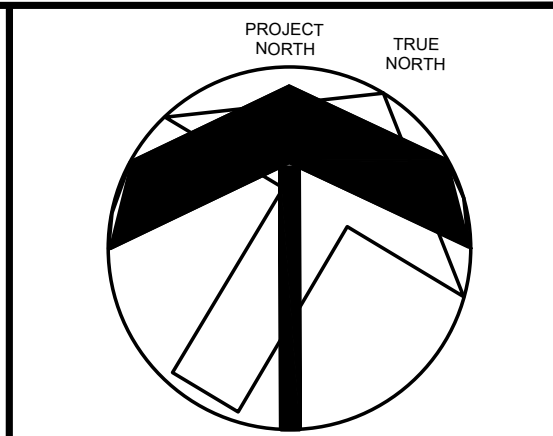
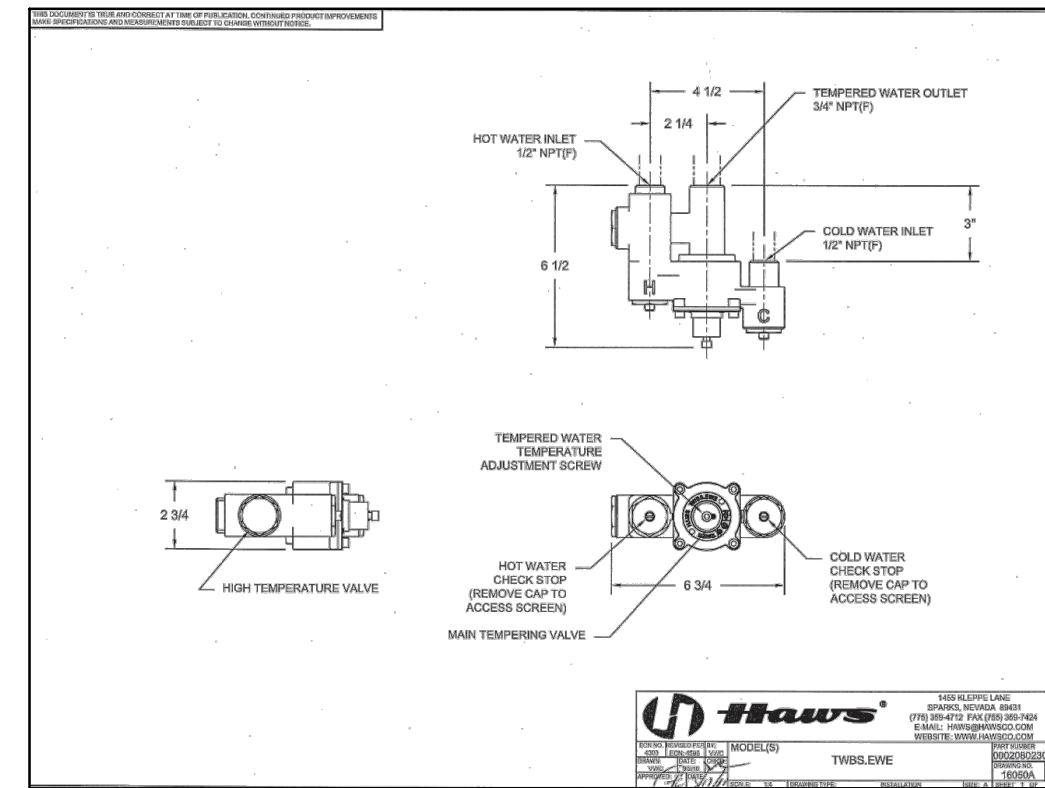
**ANTI-SCALD PROTECTION**  
Redundant anti-scald protection with internal cold water bypass anti-scald protection. Main tempering valve provides primary protection while backup shutoff valve provides secondary high-temp protection. Internal cold water bypass supplies cold water if hot water supply or main tempering valve fails.

**MEDICALLY SUPERIOR RESPONSE**  
ANION® superior design and technology provide a complete safety solution for increased victim comfort.

**EXTENDED WARRANTY**  
Superior product warranty based on superior engineering and best-in-class material selection means reliable protection you can trust for the long term.

**LOW CAPACITIES**

MODEL	INLET	OUTLET	INTERNAL FLOW WATER BY PASS PRESSURE					PRESSURE DROP									
			1	2	3	4	5	1	2	3	4	5					
TWBS.EWE	1/2"	1/2"	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
			1	2	3	4	5	1	2	3	4	5	1	2	3	4	5



NO	REVISIONS	DATE
4	ISSUED FOR TENDER	04/12/2024
3	ISSUED FOR PERMIT	04/03/2024
2	ISSUED FOR COORDINATION	04/01/2024
1	ISSUED FOR COORDINATION	03/27/2024
NO	ISSUED	DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANT'S BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

**SENECA ENGINEERING LAB AT NH K3170**

SENECA COLLEGE, NEWNHAM CAMPUS  
1750 FINCH AVE. E., TORONTO



SCHEDULES

**h HAMMERSCHLAG & JOFFE INC.**  
 43 Lesmill Road, Toronto, Ontario  
 Canada M3B 2T8  
 T: (416) 444-9263  
 F: (416) 444-1463  
 E: [edwg@hamjoff.com](mailto:edwg@hamjoff.com)

**ARTIFACT DESIGN + DEVELOPMENT**

31 PLYMBOURGE CRESCENT, TORONTO, ON M2P 1P4  
 TEL: 416-414-7095  
 EMAIL: [DIANAG@ARTIFACTDEVELOPMENT.CA](mailto:DIANAG@ARTIFACTDEVELOPMENT.CA)

SCALE AS INDICATED	PROJECT
DATE: 03/22/2024	24-018-007
DRAWN BY: A.N.-T.M.M.	DRAWING
CHECKED BY: D.J.	M001

MECHANICAL SPECIFICATION

1. GENERAL
1.1. COMPLY WITH ALL REQUIREMENTS OF DIVISION 1, OWNER, PROJECT MANAGER AND/OR CONSTRUCTION MANAGER.
1.2. PERFORM ALL MECHANICAL WORK DETAILED ON THESE DRAWINGS IN ACCORDANCE WITH THE MOST STRINGENT INDUSTRY STANDARDS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM TO THE SATISFACTION OF THE OWNER AND/OR MECHANICAL CONSULTANT.

1. DEMOLITION
1.1. COMPLY WITH THE REQUIREMENTS OF DIVISION 01, THE OWNER/LANDLORD, PROJECT MANAGER AND CONSTRUCTION MANAGER WITH ALL REGARDS TO DEMOLITIONS.
1.2. INCLUDE FOR ALL PERMITS AND FEES TO PERFORM THE EXTENT OF THE DEMOLITION WORK IN THESE DOCUMENTS, INCLUDING FEES AND TAXES ASSOCIATED WITH THE DISPOSAL OF HAZARDOUS SUBSTANCES, ARRANGE AND PAY FOR A WASTE GENERATION NUMBER FOR THE PROPERTY TO ALLOW FOR THE REMOVAL OF SAID ITEMS.

HVAC
1. GENERAL
1.1. COMPLY WITH ALL REQUIREMENTS OF DIVISION 1, OWNER, PROJECT MANAGER AND/OR CONSTRUCTION MANAGER.
1.2. COORDINATE THE WORK OF THIS TRADE WITH ALL OTHER TRADES, INCLUDE FOR ALL MATERIAL AND LABOUR TO INSTALL THESE SYSTEMS TO SUIT THE EXISTING AND NEW SYSTEMS OF OTHER TRADES.

2.10. FIRE DAMPERS SHALL BE INSTALLED IN ALL DUCTWORK PASSING THROUGH FIRE RATED PARTITIONS. DAMPERS SHALL BE CURTAIN BLADE TYPE, DYNAMIC CALIBRATED STEEL FUSIBLE LINK DAMPERS, ULC CLASSIFIED TO STANDARD CANULC-S112 AND IN ACCORDANCE WITH NFPA 90A.
2.11. DAMPERS SHALL BE OUT OF STREAM TYPE UNLESS SIZE OR LOCATIONS DICTATES THE USE OF IN STREAM DAMPERS.

1. EXHAUST FANS
GENERAL
1.1. SUBMIT SHOP DRAWINGS FOR ALL FANS LISTED ON THESE DRAWINGS INCLUDING ALL DIMENSIONS, FAN CURVES, ELECTRICAL PERFORMANCE, AND OPTIONS.

PLUMBING AND DRAINAGE
1. GENERAL
1.1. PROVIDE ALL PLUMBING AND DRAINAGE SYSTEMS COMPLETE WITH ALL EQUIPMENT, PIPING, CONNECTIONS, SUPPORTS, HANGERS AND ACCESSORIES TO PROVIDE A FULLY COMPLETE AND FUNCTIONAL SYSTEM.

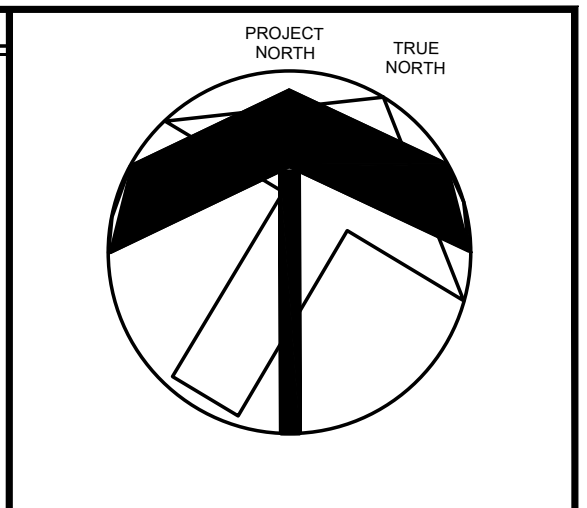


Table with 3 columns: NO, REVISIONS, DATE. It lists revision 4: ISSUED FOR TENDER (04/12/2024), revision 3: ISSUED FOR PERMIT (04/03/2024), revision 2: ISSUED FOR COORDINATION (04/01/2024), and revision 1: ISSUED FOR COORDINATION (03/27/2024).

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

SENECA ENGINEERING LAB AT NH K3170

SENECA COLLEGE, NEWHAM CAMPUS 1750 FINCH AVE. E, TORONTO



SENECA COLLEGE, NEWHAM CAMPUS 1750 FINCH AVE. E, TORONTO

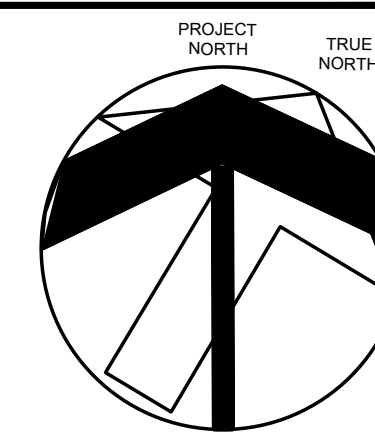
SPECIFICATIONS

SCALE AS INDICATED
DATE 03/22/2024
DRAWN BY A.N.-T.M.M.
CHECKED BY D.J.

PROJECT 24-018-007
DRAWING M002A

31 PLYMBOURGE CRESCENT, TORONTO, ON M2P 1P4
TEL: 416-414-7095
EMAIL: DIANA@ARTIFACTDEVELOPMENT.CA





NO	REVISIONS	DATE
4	ISSUED FOR TENDER	04/12/2024
3	ISSUED FOR PERMIT	04/03/2024
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**SENECA  
ENGINEERING LAB  
AT NH K3170**

SENECA COLLEGE, NEWNHAM CAMPUS  
1750 FINCH AVE. E., TORONTO



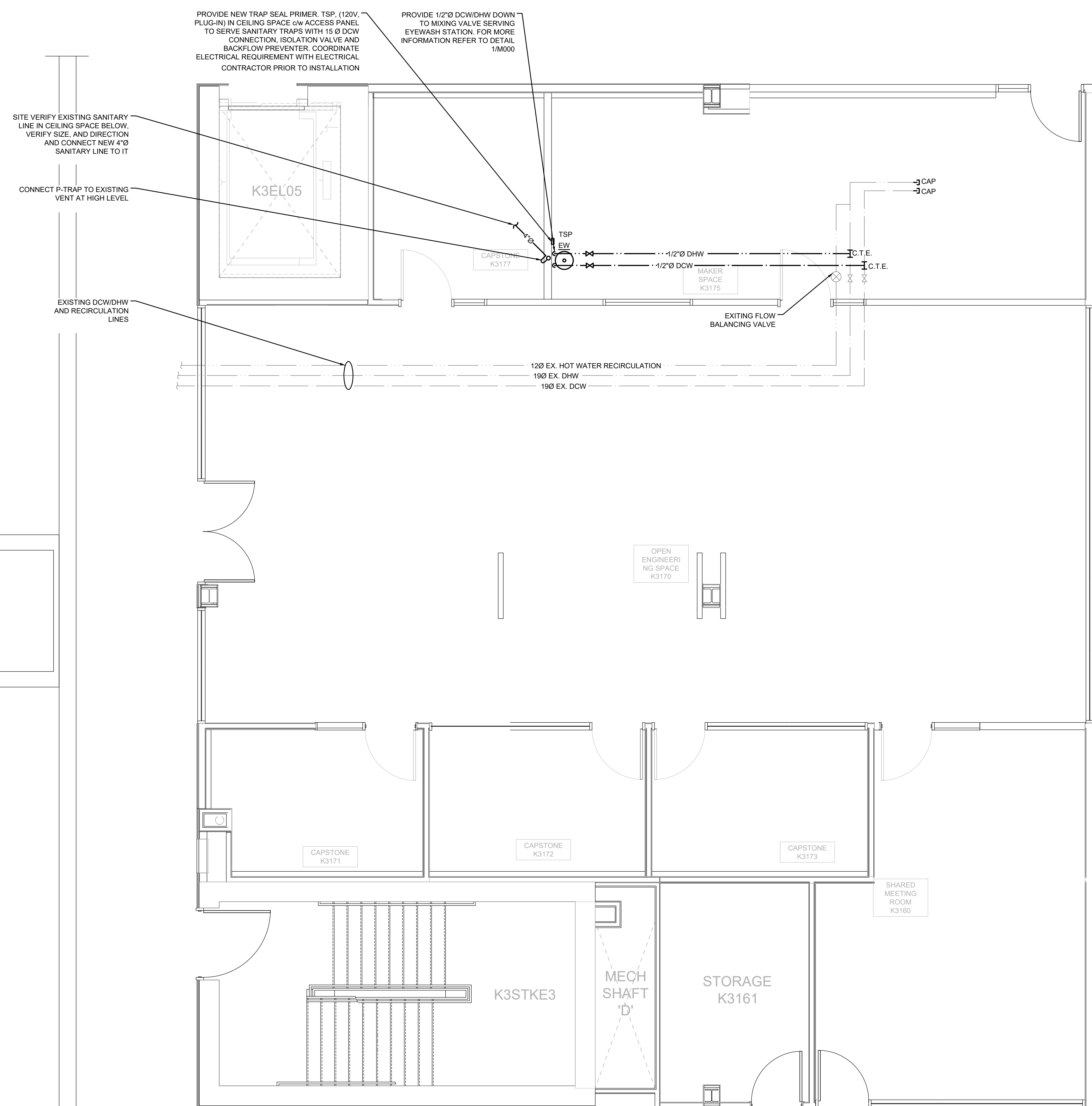
**MECHANICAL  
FLOOR PLAN - PD**

**h** Hammerschlag & Joffe Inc.  
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Canada M3B 2T8  
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E: djwg@hamjof.com

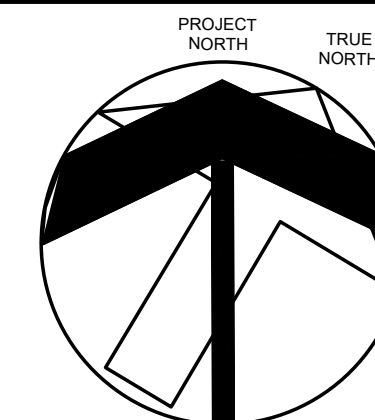


31 PLYMBOURGE CRESCENT, TORONTO, ON M2P 1P4  
TEL: 416-414-7095  
EMAIL: DIANA@ARTIFACTDEVELOPMENT.CA

SCALE AS INDICATED	PROJECT 24-018-007
DATE 03/22/2024	
DRAWN BY A.N.-T.M.M.	DRAWING
CHECKED BY D.J.	M100



**1** MECHANICAL FLOOR PLAN - PD  
M100 SCALE: 1/4"=1'-0"



NO	REVISIONS	DATE
4	ISSUED FOR TENDER	04/12/2024
3	ISSUED FOR PERMIT	04/03/2024
2	ISSUED FOR COORDINATION	04/01/2024
1	ISSUED FOR COORDINATION	03/27/2024
NO	ISSUED	DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANT'S BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

### SENECA ENGINEERING LAB AT NH K3170

SENECA COLLEGE, NEWNHAM CAMPUS  
1750 FINCH AVE. E., TORONTO



### MECHANICAL FLOOR PLAN - HVAC

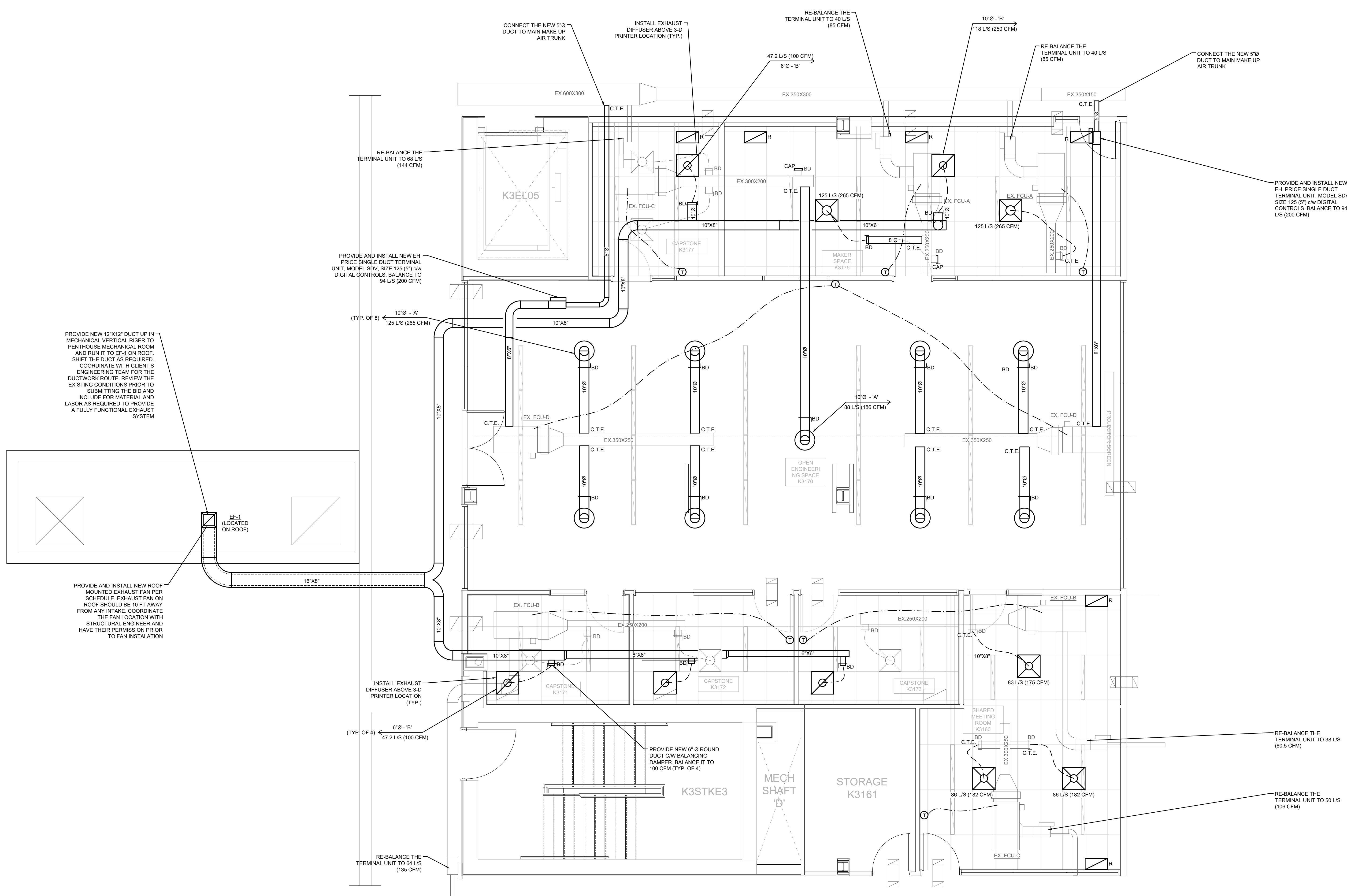
**h** HAMMERSCHLAG & JOFFE INC.  
43 Lesmill Road, Toronto, Ontario  
Canada M3B 2T8  
T: (416) 444-9263  
F: (416) 444-3463  
E: dwg@hampj.com



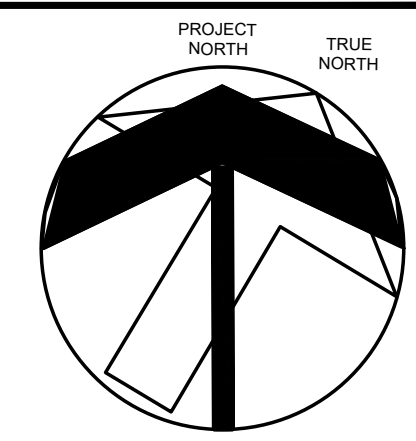
31 PLYMBOURGE CRESCENT, TORONTO, ON M2P 1P4  
TEL: 416-414-7095  
EMAIL: DIANA@ARTIFACTDESIGN.COM

SCALE	PROJECT
AS INDICATED	24-018-007
DATE	03/22/2024
DRAWN BY	A.N.-T.M.M.
CHECKED BY	D.J.
	M200

DRAWING NOTES:  
REQUIRED EXHAUST/FILTRATION SYSTEM FOR LABS/WORKSHOP SPECIFIC TOOLS WILL BE PROVIDED AND INSTALLED BY THE CLIENT.







NO	REVISIONS	DATE
4	ISSUED FOR TENDER	04/12/2024
3	ISSUED FOR PERMIT	04/03/2024
2	ISSUED FOR COORDINATION	04/01/2024
1	ISSUED FOR COORDINATION	03/27/2024
NO	ISSUED	DATE

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### SENECA ENGINEERING LAB AT NH K3170

SENECA COLLEGE, NEWNHAM CAMPUS  
1750 FINCH AVE E., TORONTO



### MECHANICAL DEMOLITION PLAN - PD

**h** HAMMERSCHLAG & JOFFE INC.  
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31 PLYMBRIDGE CRESCENT, TORONTO, ON M2P 1P4  
TEL: 416-414-7095  
EMAIL: DIANA@ARTIFACTDEVELOPMENT.CA

SCALE AS INDICATED	PROJECT 24-018-007
DATE 03/22/2024	DRAWN BY A.N.-T.M.M.
CHECKED BY D.J.	DRAWING MD100

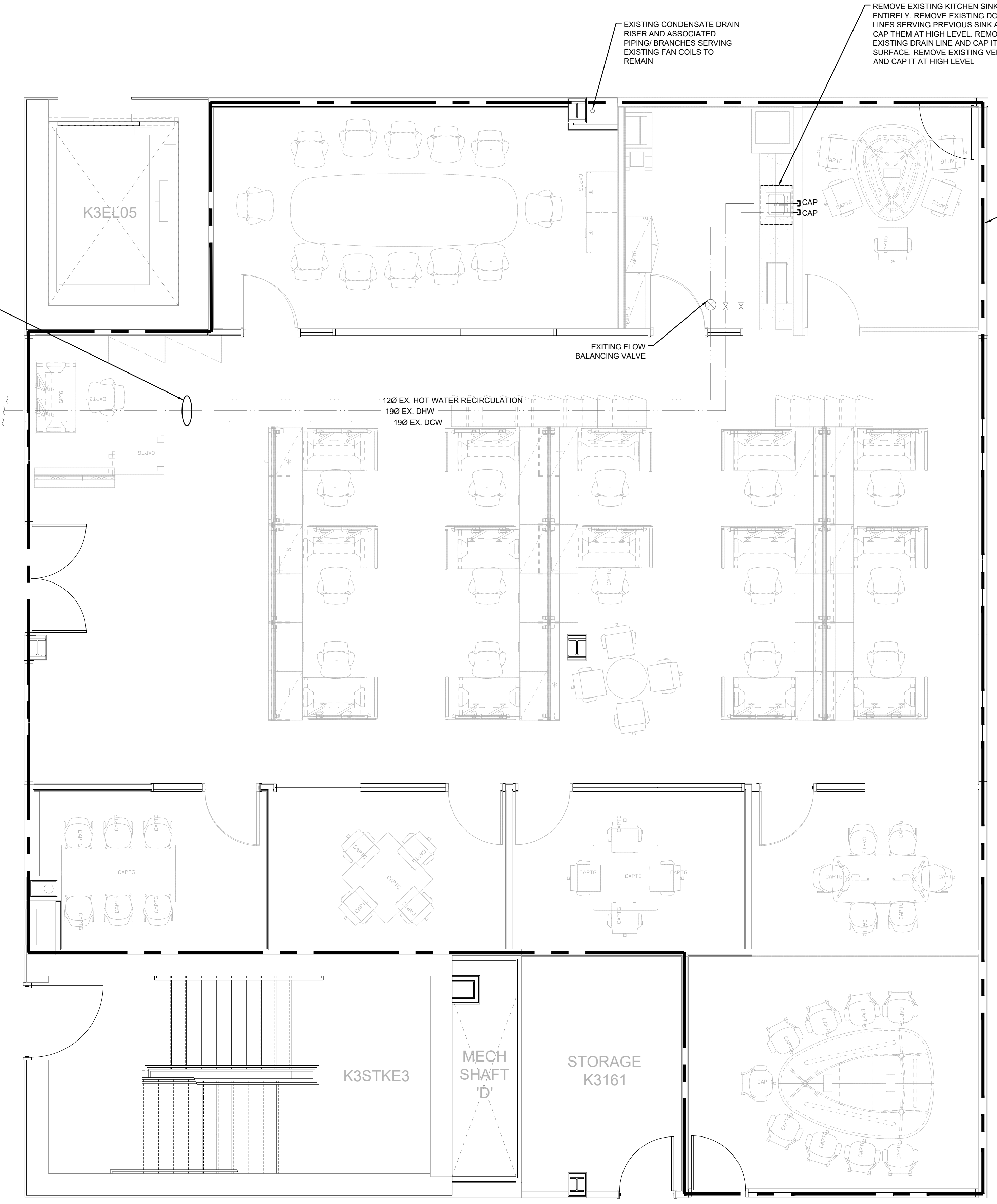
EXISTING CONDENSATE DRAIN RISER AND ASSOCIATED PIPING/ BRANCHES SERVING EXISTING FAN COILS TO REMAIN

REMOVE EXISTING KITCHEN SINK IN ITS ENTIRELY. REMOVE EXISTING DCW/DHW LINES SERVING PREVIOUS SINK AND CAP THEM AT HIGH LEVEL. REMOVE EXISTING DRAIN LINE AND CAP IT BELOW SURFACE. REMOVE EXISTING VENT PIPE AND CAP IT AT HIGH LEVEL

ALL EXISTING BASE BUILDING DUCTWORKS AND PIPING TO REMAIN

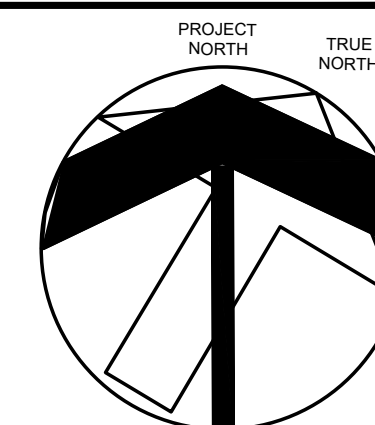
EXISTING DCW/DHW AND RECIRCULATION LINES TO REMAIN

EXITING FLOW BALANCING VALVE



1 MECHANICAL DEMOLITION FLOOR PLAN - PD  
MD100 SCALE: 1/4"=1'-0"





NO	REVISIONS	DATE
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**SENECA  
ENGINEERING LAB  
AT NH K3170**

SENECA COLLEGE, NEWNHAM CAMPUS  
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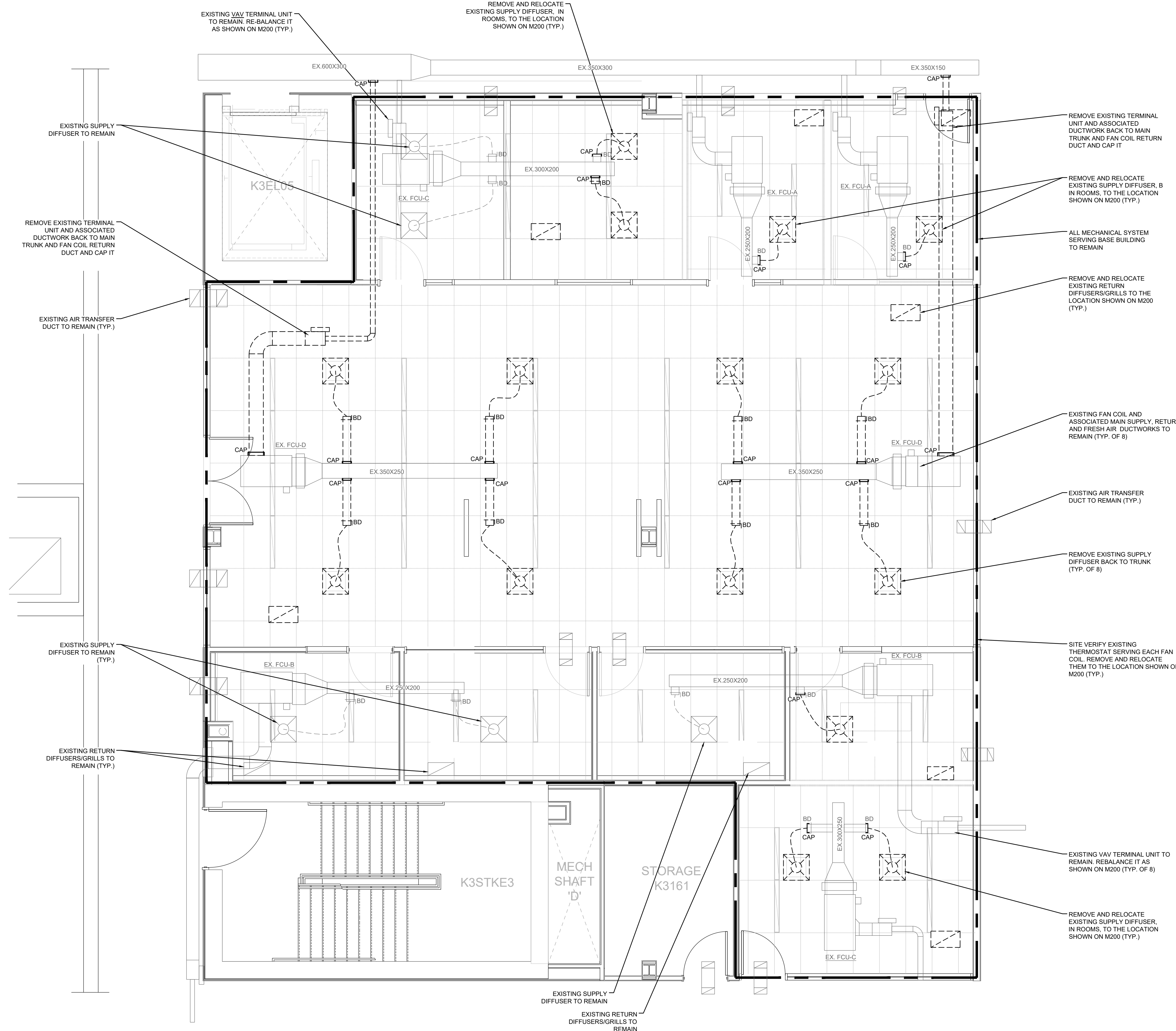
**MECHANICAL  
DEMOLITION PLAN  
- HVAC**

**h** **HAMMERSCHLAG & JOFFE INC.**  
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31 PLYMBOURGE CRESCENT, TORONTO, ON M2P 1P4  
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SCALE AS INDICATED	PROJECT 24-018-007
DATE 03/22/2024	DRAWING A.N.-T.M.M.
DRAWN BY A.N.-T.M.M.	CHECKED BY D.J.
	<b>MD101</b>



**1 MECHANICAL DEMOLITION FLOOR PLAN - HVAC**  
MD101 SCALE: 1/4"=1'-0"



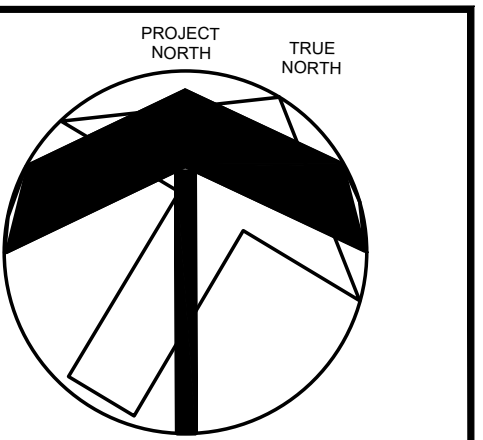
1 MECHANICAL DEMOLITION FLOOR PLAN - FP  
MD102 SCALE: 1/4"=1'-0"

IN LOCATIONS WHERE THE CEILING IS INTENDED TO REMAIN, EXISTING SPRINKLER HEAD TO REMAIN AS LONG AS SUIT NEW FLOOR PLAN AND PROVIDE AN NFPA 13 COMPLIANT SYSTEM FOR THE SPACE

REMOVE EXISTING SPRINKLER HEADS

IN LOCATIONS WHERE THE CEILING IS INTENDED TO REMAIN, EXISTING SPRINKLER HEAD TO REMAIN AS LONG AS SUIT NEW FLOOR PLAN AND PROVIDE AN NFPA 13 COMPLIANT SYSTEM FOR THE SPACE

REMOVE EXISTING SPRINKLER HEADS



NO	REVISIONS	DATE
4	ISSUED FOR TENDER	04/12/2024
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**SENECA**  
**ENGINEERING LAB**  
**AT NH K3170**  
SENECA COLLEGE, NEWNHAM CAMPUS  
1750 FINCH AVE E., TORONTO



**MECHANICAL**  
**DEMOLITION PLAN**  
**- FP**

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**A**  
**ARTIFACT**  
DESIGN • DEVELOPMENT  
31 PLYMBRIDGE CRESCENT, TORONTO, ON M2P 1P4  
TEL: 416-414-7095  
EMAIL: DIANA@ARTIFACTDEVELOPMENT.CA

SCALE AS INDICATED	PROJECT
DATE 03/22/2024	24-018-007
DRAWN BY A.N.-T.M.M.	DRAWING
CHECKED BY D.J.	<b>MD102</b>