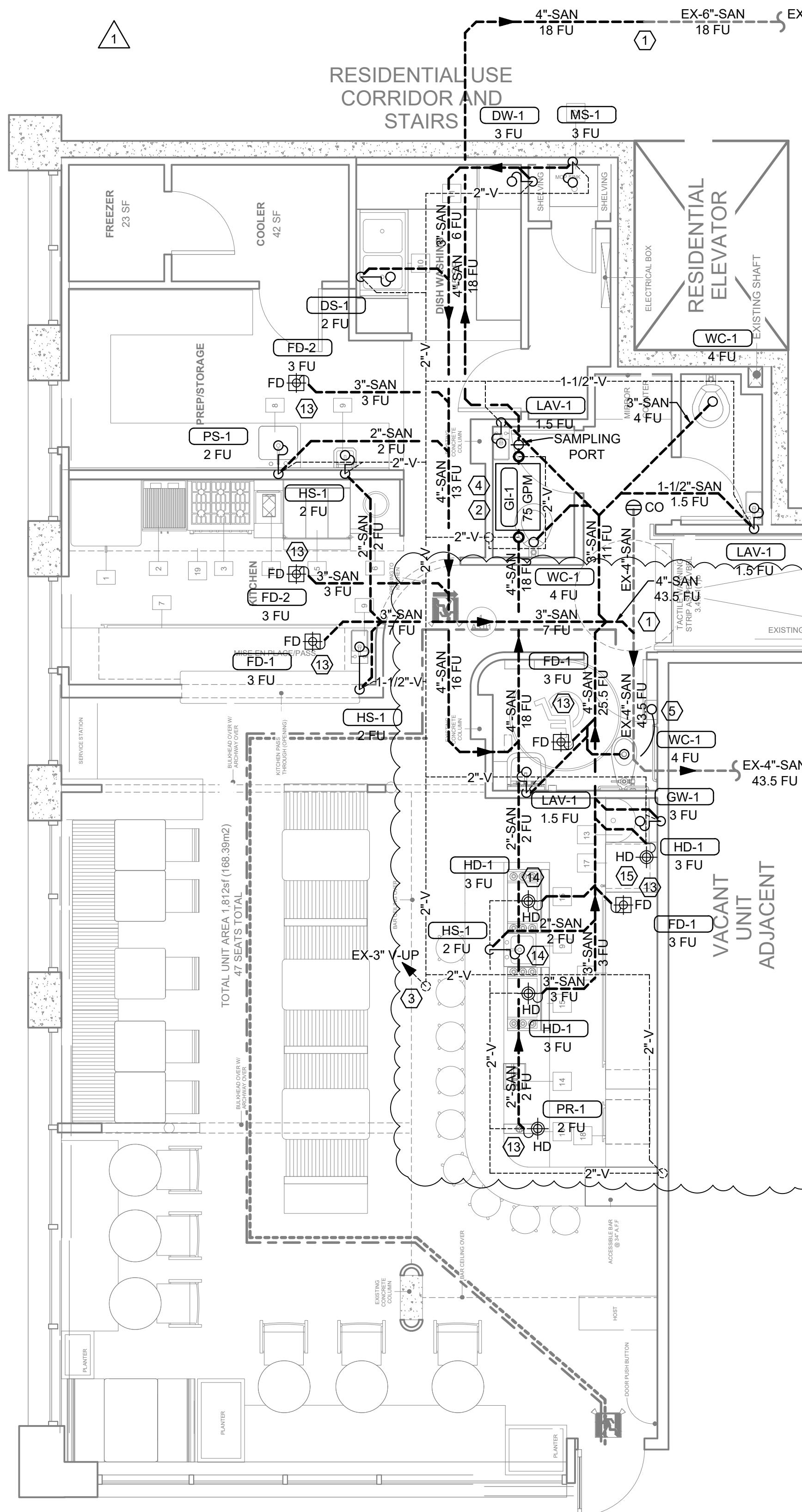
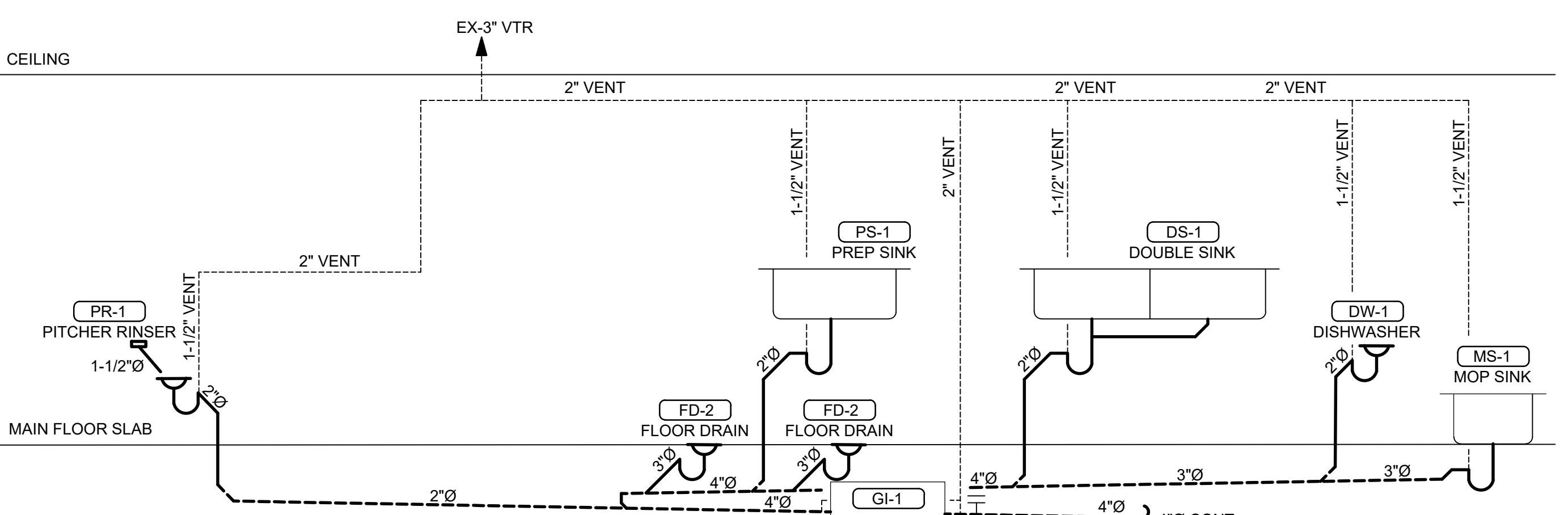
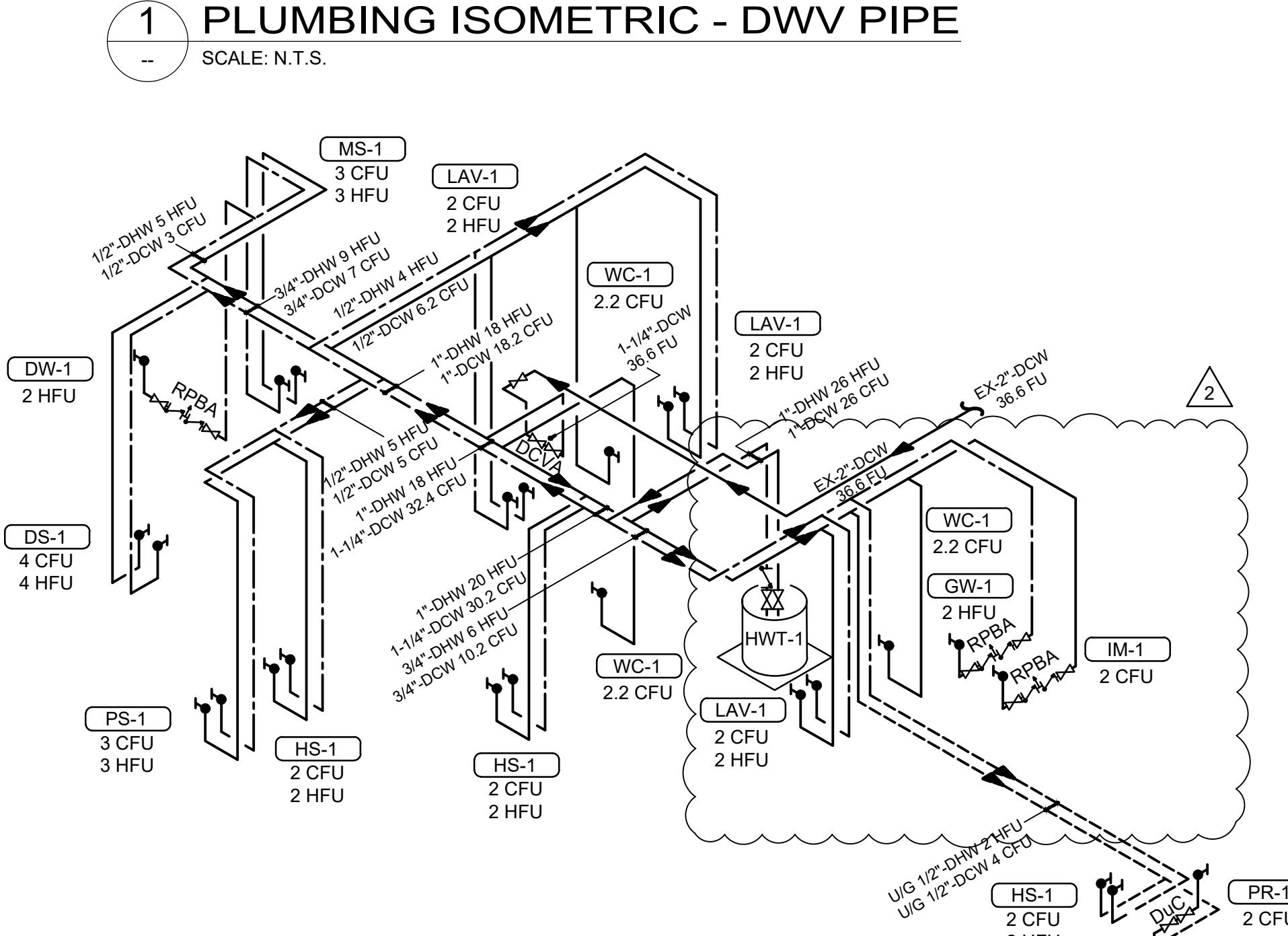
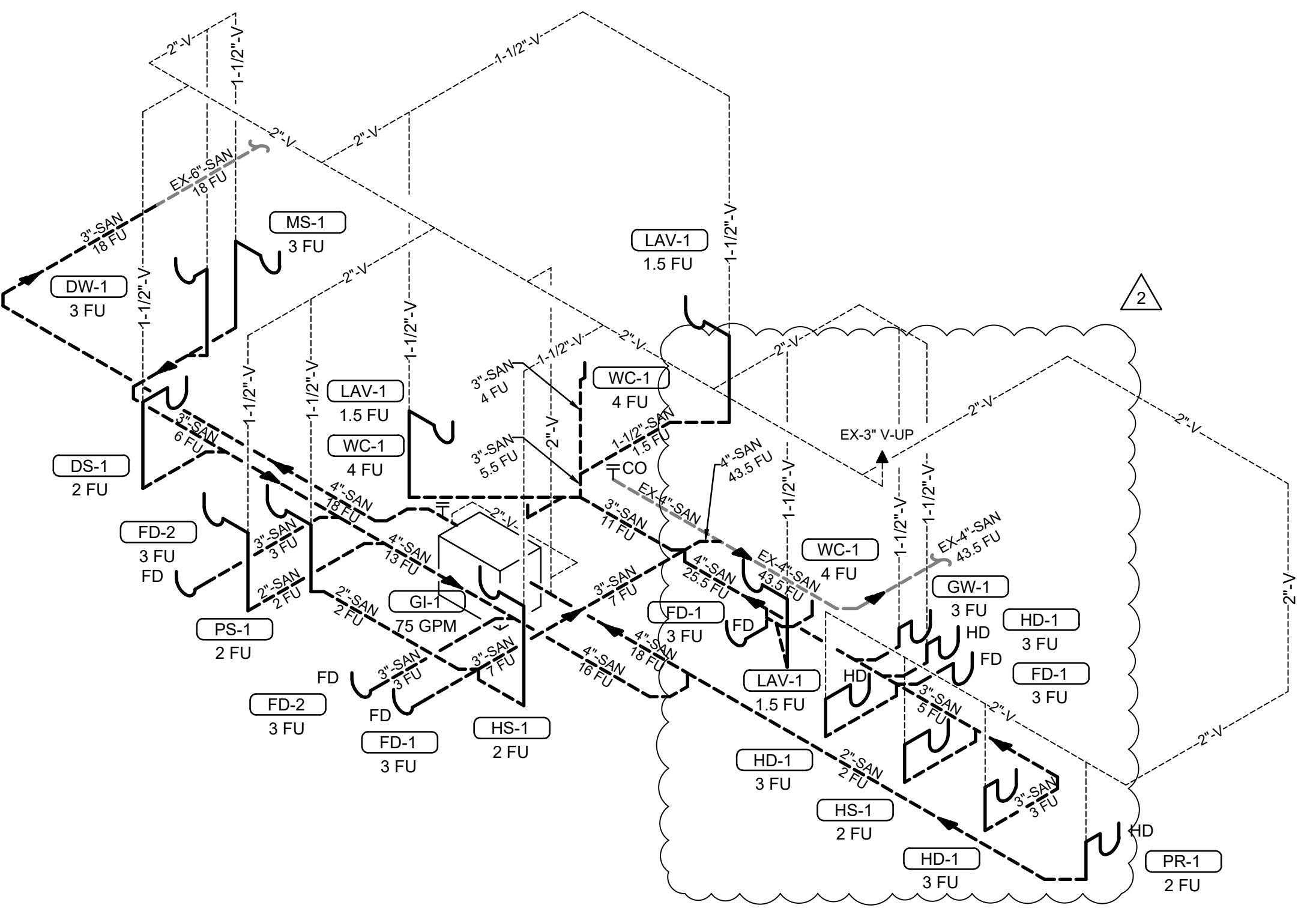


Branch: BUILDING REVIEW BRANCH  
Date: AUG 9, 2023  
Permit #: DB-2023-00887  
Page #: 1 OF 10  
Staff: KRISTA BIRCHAM

ACCEPTED

THE RESPONSIBILITY TO COMPLY WITH THE BY-LAWS AND THE CONDITIONS OF THE PERMIT REMAINS WITH THE OWNER, CONTRACTOR AND DEVELOPER AT ALL TIMES.





**GREASE INTERCEPTOR (GI-1) SIZING CALCULATION**

TAG	Fixture	Length (in)	Width (in)	Depth (in)	Capacity Factor	Capacity (GPM)	Amount	Total (GPM)
DS-1	DOUBLE SINK	2 X 18	18	12	0.75	25.2	1	25.2
DW-1	DISHWASHER	--	--	--	--	8	1	8
PR-1	PITCHER RINSER	--	--	--	--	15.0	1	15.0
PS-1	PREP SINK	18	20	12	0.75	14.0	1	14.0
DRAIN LOAD FOR ONE MINUTE DISCHARGE								
MS-1	MOP SINK	20	16	11	0.75	15.2	1	15.2
FD-2	FLOOR DRAIN	--	--	--	--	37.5	2	75.0
DRAIN LOAD FOR ONE MINUTE DISCHARGE								
SELECTED GREASE INTERCEPTOR (GI-1) SIZE								
75								

NOTES:

1. FLOOR DRAIN DISCHARGE RATE IS CALCULATED PER LINE, NOT PER AMOUNT.
2. MOP SINKS AND FLOOR DRAINS ARE CONSIDERED NON-SIMULTANEOUS FOR THE CALCULATION AND MUST NOT EXCEED THE RATED FLOW OF SELECTED GREASE INTERCEPTOR.
3. TENANT SHALL SUBMIT A REGULAR PLAN FOR GREASE INTERCEPTOR CLEANING TO ENSURE SANITARY DISCHARGED DOES NOT EXCEED CITY'S BYLAW REQUIREMENTS.

**PROPOSED SANITARY LOAD CALCULATION TABLE**

TAG	Fixture	Outlet Pipe Size	Amount	Each Fixture	Total Load	Remarks
DS-1	DOUBLE SINK	2"	1	2	2	NEW, TO GI-1
DW-1	DISHWASHER STANDPIPE W/ P-TRAP	2"	1	3	3	NEW, TO GI-1
MS-1	MOP SINK	3"	1	3	3	NEW, TO GI-1
PS-1	PREP SINK	2"	1	2	2	NEW, TO GI-1
PR-1	DRAIN FOR PITCHER RINSER	2"	1	2	2	NEW, TO GI-1
FD-2	FLOOR DRAIN (KITCHEN)	3"	2	3	6	NEW, TO GI-1
GW-1	GLASS WASHER STANDPIPE W/ P-TRAP	2"	1	3	3	NEW
HD-1	HUB DRAIN FOR ICE MAKER AND ICE WELLS	3"	3	3	9	NEW
HS-1	HAND SINK	2"	3	2	6	NEW
FD-1	FLOOR DRAIN (WASHROOM & COOLERS)	3"	3	3	9	NEW
LAV-1	LAVATORY	1-1/2"	3	1.5	4.5	NEW
WC-1	WATER CLOSET	3"	3	4	12	NEW
TOTAL						61.5

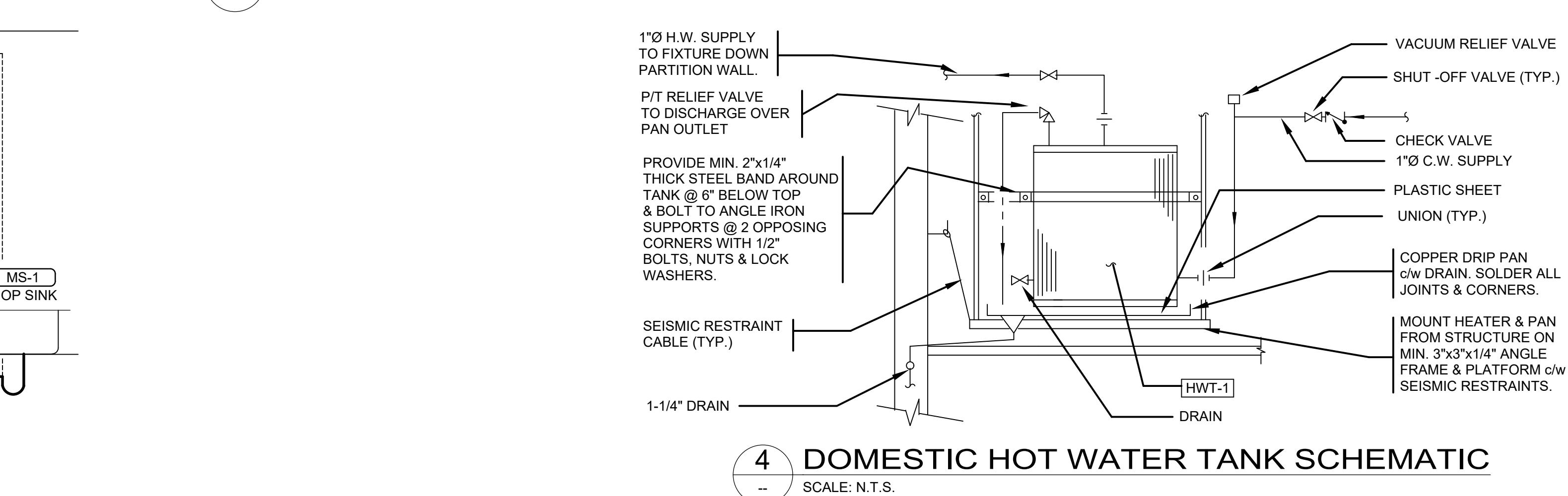
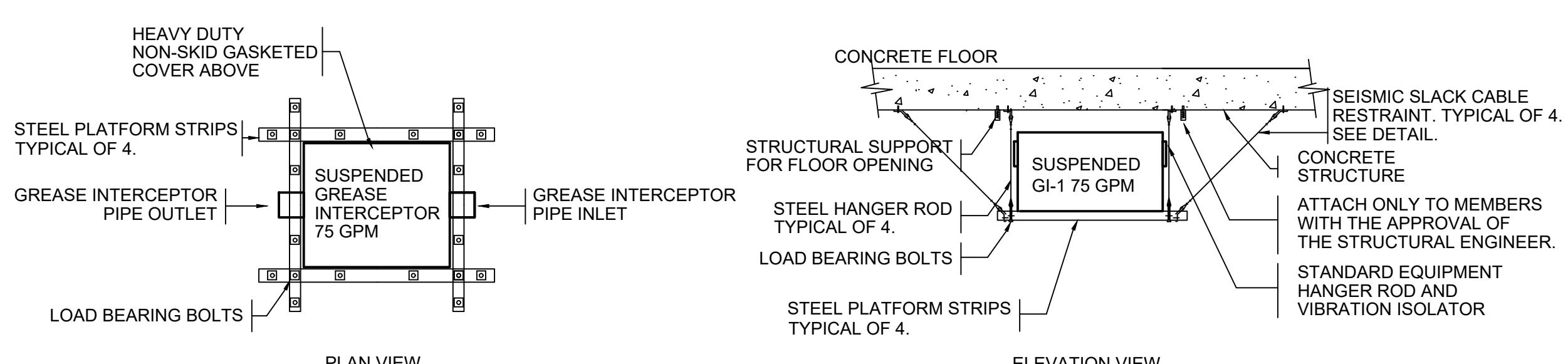
**DOMESTIC WATER LOAD CALCULATION TABLE**

TAG	Fixture	Supply Pipe Size	Amount	Each Fixture			Total Load			Remarks
				COLD	HOT	TOTAL	COLD	HOT	TOTAL	
DS-1	DOUBLE SINK	1/2"	1	4	4	4	4	4	4	NEW
DW-1	DISHWASHER	1/2"	1	0	2	2	0	2	2	PROVIDE RPBA, NEW
GW-1	GLASS WASHER	1/2"	1	0	2	2	0	2	2	PROVIDE RPBA, NEW
HS-1	HAND SINK	1/2"	3	2	2	2	6	6	6	NEW
PS-1	PREP SINK	1/2"	1	3	3	3	3	3	3	NEW
IM-1	ICE MAKER	1/2"	1	2	0	2	2	0	2	PROVIDE RPBA, NEW
PR-1	PITCHER RINSER	1/2"	1	2	2	2	2	2	2	PROVIDE DuC, NEW
MS-1	MOP SINK	1/2"	1	3	3	3	3	3	3	NEW
LAV-1	LAVATORY	1/2"	3	2	2	2	6	6	6	NEW
WC-1	WATER CLOSET	1/2"	3	2.2	--	2.2	6.6	--	6.6	NEW
TOTAL						32.6	26	36.6		

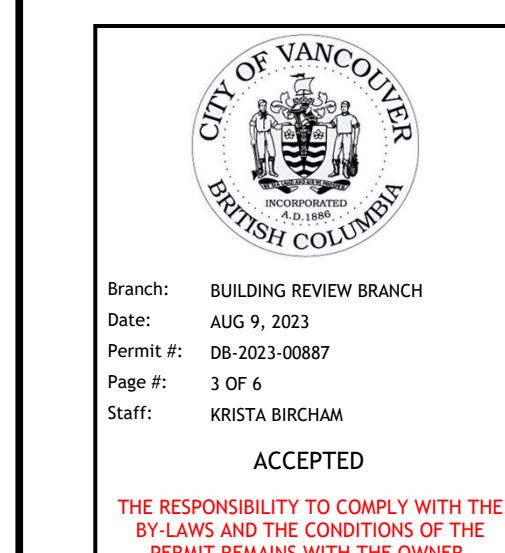
**DOMESTIC HOT WATER TANK SCHEDULE**

TAG	MANUFACTURER	MODEL	TYPE	LOCATION	NOMINAL CAPACITY (gal)	DIMENSIONS		LOWER ELEMENT SIZE (W)	UPPER ELEMENT SIZE (W)	RECOVERY RATE (gal/hr)	ELECTRICAL (V/ph/Hz)	SHIPPING WEIGHT (lbs)	REMARKS
						HEIGHT (in)	DIAMETER (in)						
HWT-1	BRADFORD	LE250L3	ELECTRIC	CEILING	47	34	26	6,000	6,000	18	208/1/60	140	NEW

1. PROVIDE BACKFLOW PREVENTOR ASSEMBLY VALVE, ISOLATION VALVE ON INLET LINE. PROVIDE PRESSURE RELIEF VALVE, AND DRAIN VALVE ON THE TANK.  
2. CONTRACTOR TO PROVIDE SEISMIC SUPPORT TO FIRMLY MOUNT THE TANK.



**PLUMBING PLAN**  
- ISOMETRICS  
- SCHEMATICS  
- SCHEDULES



THE RESPONSIBILITY TO COMPLY WITH THE BY-LAWS AND THE CONDITIONS OF THE PERMIT REMAINS WITH THE OWNER, CONTRACTOR AND DEVELOPER AT ALL TIMES.

 REVISION 2 FOR BUILDING PERMIT, THE FOLLOWING CHANGES ARE AS SUCH:  
 1. UPDATED ARCHITECTURAL BACKGROUNDS.  
 2. UPDATED UNIVERSAL WASHROOM PLUMBING.  
 3. REVISED BAR AREA PLUMBING.

REVISION	NO.	DATE	DESCRIPTION
6	JUL. 10, 2023	REV2 FOR BUILDING PERMIT	
5	APR. 10, 2023	REV1 FOR BUILDING PERMIT	
4	FEB. 14, 2023	ISSUED FOR BUILDING PERMIT	
3	JAN. 13, 2023	ISSUED FOR REVIEW	
2	JAN. 06, 2023	ISSUED FOR REVIEW	
1	DEC. 21, 2022	ISSUED FOR REVIEW	

PROJECT

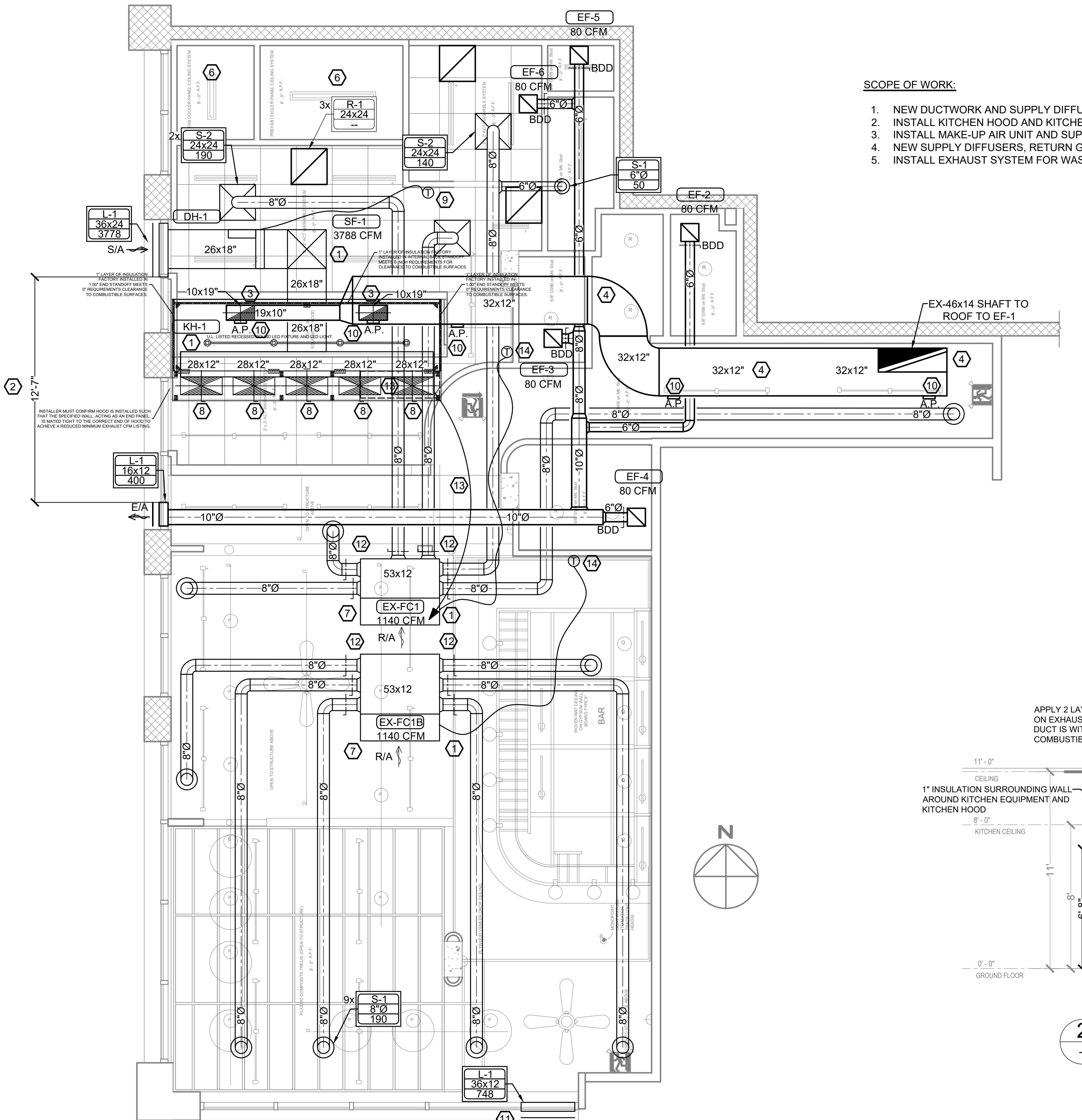
RESTAURANT - TENANT IMPROVEMENT

SHEET TITLE

 HVAC PLAN  
 - FLOOR  
 - SECTION

ADDRESS	SHEET NO.	
2101 E HASTINGS STREET, VANCOUVER, BC		
SCALE AS INDICATED		
DATE OCT. 31, 2022		
DESIGNED BY J.S.		
CHECKED BY X.T.		
PROJECT NO. X2218		

M-1


 1 HVAC FLOOR PLAN  
 SCALE: 1/4"=1"

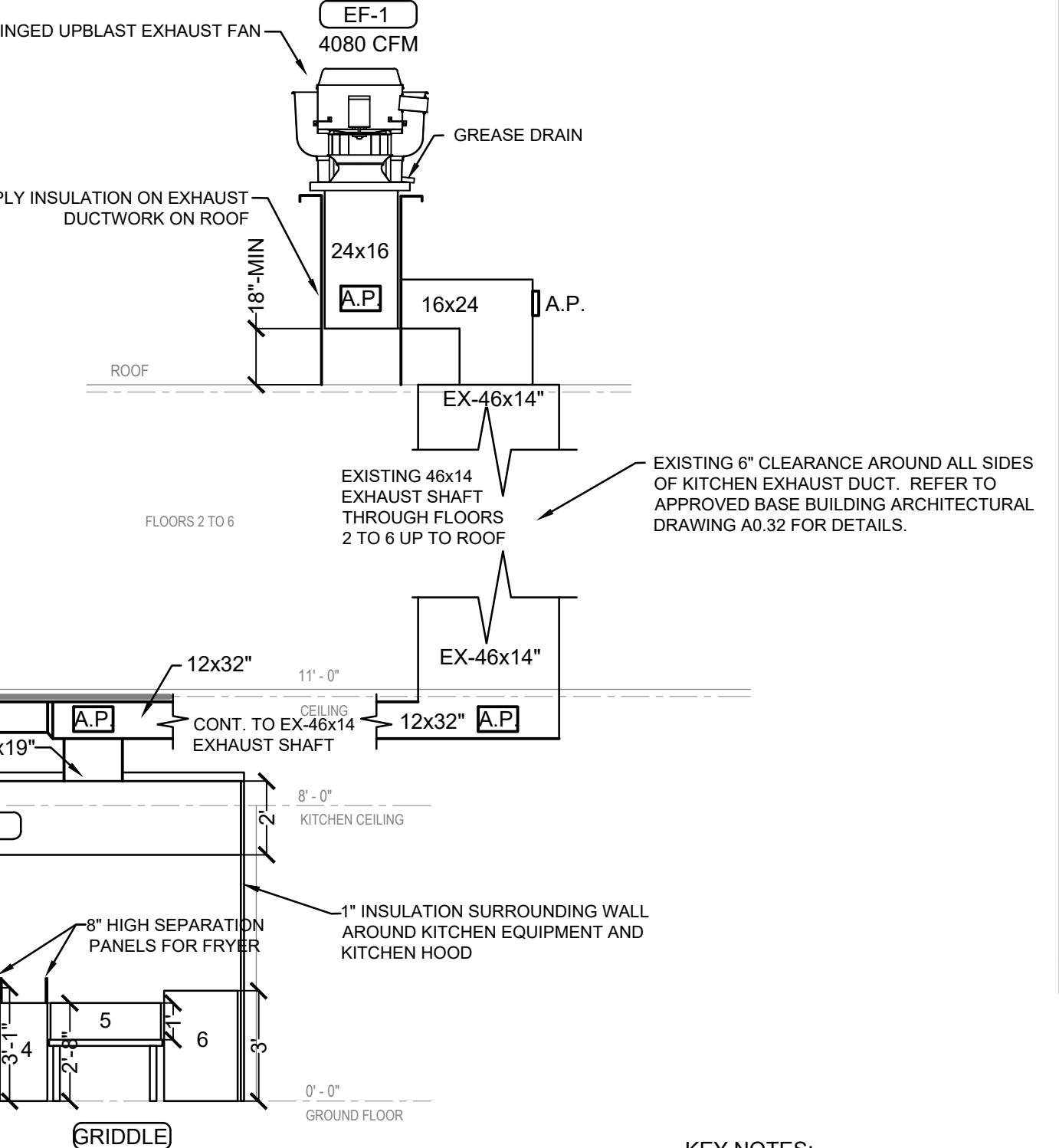
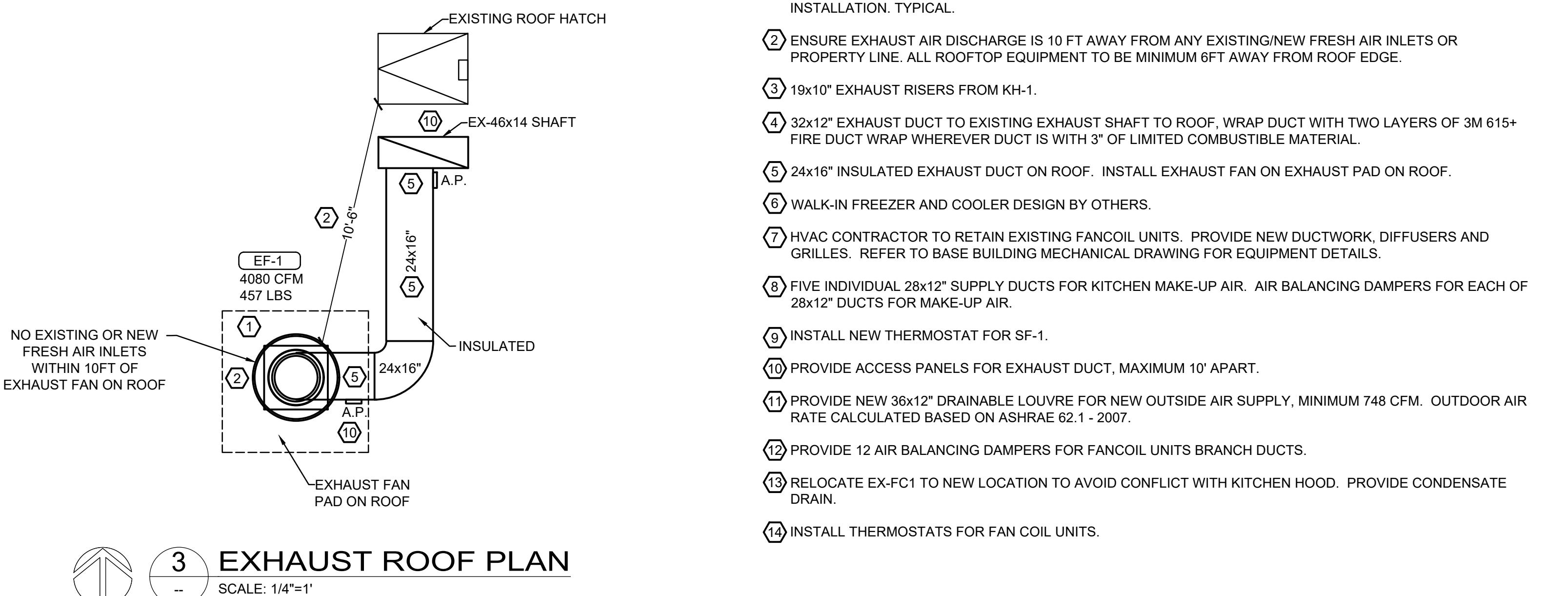
Mechanical HVAC Design (Energy)	
Vancouver Building ByLaw:	2019
HVAC Design:	
Energy Standard/Code:	ASHRAE 90.1-2016
Compliance Path:	Prescriptive
Design Method:	HVAC Simplified
In accordance with:	Section 6 (NC or First TI)
Climate Zone:	4C
Ventilation:	Res: 62-2001 (except addendum n)
If Mixed Use:	N/A

## SCOPE OF WORK:

1. NEW DUCTWORK AND SUPPLY DIFFUSERS FOR EXISTING FAN COIL UNITS. RELOCATED EXISTING FC1.
2. INSTALL KITCHEN HOOD AND KITCHEN EXHAUST DUCTWORK.
3. INSTALL MAKE-UP AIR UNIT AND SUPPLY DUCTWORK.
4. NEW SUPPLY DIFFUSERS, RETURN GRILLES, AND LOUVRES.
5. INSTALL EXHAUST SYSTEM FOR WASHROOMS, MOP ROOM, AND DISHWASHING ROOM.

## HVAC SYSTEM CONTROL SEQUENCE

1. NORMAL MODE:
  - 1.1. UNDER NORMAL OPERATION CONDITION
  - 1.1.1. SEQUENCE OF OPERATION NON-FIRE CONDITIONS. THE FOLLOWING ARE INTERLOCKED: SF-1 AND EF-1 SO THAT THEY OPERATE TOGETHER. IF APPLICABLE, INTERLOCK SF-1 AND EF-1 SO THE HEATER CAN ONLY OPERATE IF THE EXHAUST IS ON [ULC-S647-05 6.5. B149.1-05 7.20.3 (B)]. INTERLOCK EF-1 AND COOKING APPLIANCES SO EXHAUST TURNS ON WHEN COOKING EQUIPMENT IS TURNED ON. START-UP SEQUENCE WILL BE AS FOLLOWS, WITH SHUT-DOWN IN REVERSE ORDER: I) SUPPLY (MAKE-UP) AIR UNIT FAN, II) EXHAUST FAN, III) SUPPLY (MAKE-UP) AIR UNIT HEATER, IV) COOKING EQUIPMENT.
  - 1.1.2. EF-1 FAN IS ACTIVATED WHEN DUCT-MOUNTED TEMPERATURE SENSOR EXCEEDS 50°C (ADJUSTABLE) MANUALLY OVERRIDE BY OPERATOR.
  - 1.1.3. SF-1 FAN IS TURNED ON WHEN EF-1 IS ON. DH-1 HEATER IS TURNED ON WHEN OUTDOOR AIR TEMPERATURE IS LOWER THAN 15°C (ADJUSTABLE). MANUALLY OVERRIDE BY OPERATOR.
  - 1.1.4. EF-1 FAN IS ACTIVATED WHEN DUCT-MOUNTED TEMPERATURE SENSOR EXCEEDS 50°C (ADJUSTABLE) MANUALLY OVERRIDE BY OPERATOR.
2. FIRE MODE:
  - 2.1. WHEN FIRE ALARM IS ACTIVATED, EITHER MANUALLY TRIGGERED OR BY LOCAL FIRE ALARM SYSTEM.
  - 2.1.1. SHUT DOWN ROOFTOP UNIT
  - 2.1.2. HOOD EXHAUST FAN EF-1 KEEPS RUNNING.
  - 2.1.3. SHUT OFF ELECTRICAL POWER TO HOOD LIGHTINGS.
  - 2.1.4. SHUT OFF SUPPLY (MAKE-UP) AIR UNIT SF-1.


 2 KITCHEN HOOD SECTION  
 SCALE: 1/4"=1"

 3 EXHAUST ROOF PLAN  
 SCALE: 1/4"=1"



MECHANICAL SPECIFICATIONS (HVAC and PLUMBING)		Architectural Description and Permits																																																																																															
<p><b>1. GENERAL</b></p> <p><b>1.1 INTENT</b></p> <p>.1 The intent of this specification and the drawings is to provide a complete and fully operating mechanical system in complete accord with applicable codes. The Mechanical Contractor shall make provisions for labour, material, and equipment necessary to complete the mechanical work.</p> <p>.2 Drawings and specifications are complementary to each other and what is called for in one is binding as if called for by both. Should any discrepancy appear between drawings and specifications that leaves doubt as to the true intent and meaning, obtain a ruling from the Engineer ten (10) days before submitting tender. Failing this, allow for most expensive alternative.</p> <p>.3 Contract documents are diagrammatic only. They are to establish scope, material and quality. They are not detailed installation drawings. Minor details usually not shown or specified and any incidental accessories required for proper installation of the system are to be included in the work.</p> <p>.4 Contractor is to ensure that all intended equipment will fit within given spaces. Make reference to the electrical, mechanical, architectural and structural drawings, when setting out work and before ordering equipment.</p> <p>.5 The Contractor shall visit the site prior to tender and verify existing conditions. New piping, ductwork and insulation standards shall at least match the existing installation or be higher if specified herein.</p> <p><b>1.2 CODE COMPLIANCE</b></p> <p>.1 All work shall conform to current edition of Vancouver Building Bylaw 2019 and ASHRAE 90.1 - 2016, and will meet the requirements of Authorities Having Jurisdiction.</p> <p><b>1.3 LIABILITY</b></p> <p>.1 Assume responsibility for layout of work; and for any damage caused to the Owner or other Tenants by improper execution of work.</p> <p>.2 Protect finished and unfinished work from damage.</p> <p>.3 Take responsibility for condition of materials and equipment supplied and protect until work is completed and accepted. Coordinate deliveries with the general contractor.</p> <p><b>1.4 CERTIFICATES</b></p> <p>.1 Give notices, obtain permits and approvals, and pay fees so work specified may be carried out. Furnish certificates if requested, as evidence that work conforms with laws and regulations of the authorities having jurisdiction.</p> <p><b>1.5 CUTTING AND PATCHING</b></p> <p>.1 All work shall be coordinated with other trades especially that related to cutting and patching of required openings, and locations and installation of sleeves, inserts, support, curbs, frames and access doors.</p> <p>.2 Obtain approval from structural and electrical engineers before drilling and coring of existing structure.</p> <p>.3 Provide X-ray of all required penetrations of the floor. X-ray use for locating in floor rebar and conduit to be done after normal working hours. Take necessary precautions to protect computer equipment when X-raying floors. Coordinate with Owner.</p> <p><b>1.6 ALTERNATIVE MATERIALS AND EQUIPMENT</b></p> <p>.1 Contract price shall be based on materials and equipment specified. Approval by Engineer of equipment submitted by the mechanical trade as equal to that specified does not relieve the mechanical trade of any responsibility.</p> <p>.2 Revisions required to adapt accepted equals and alternatives shall be included in the contract price. No increase in the contract price will be considered to accommodate the use of equipment other than that specified.</p> <p>.3 Certain items of equipment and items of work (such as balancing, water treatment) may not have an approved equal due to the need to have a consistent type or source of maintenance. Refer to specific clauses in this specification.</p> <p><b>1.7 SHOP DRAWINGS</b></p> <p>.1 Submit shop drawings in PDF format to Engineer for all equipment specified in the specification or drawings for Engineer's review. Do not order equipment or materials until Engineer has reviewed shop drawings.</p> <p><b>1.8 GUARANTEE</b></p> <p>.1 Provide the Owner with a written guarantee that the equipment installed and work performed shall remain in serviceable condition for a period of one (1) year from the date of final acceptance by the Owner. The warranty shall cover material as well as labour.</p> <p><b>1.9 STANDARD OF MATERIALS AND WORKMANSHIP</b></p> <p>.1 Make and quality of materials used are subject to approval by the Engineer. Remove unacceptable materials and install suitable materials in their place.</p> <p>.2 Materials shall be new and of uniform pattern throughout, unless noted otherwise.</p> <p>.3 Employ only tradesmen properly licensed to perform the specific work.</p> <p><b>1.10 NOT IN USE</b></p> <p><b>1.11 RECORD DRAWINGS</b></p> <p>.1 Keep on site an extra set of white prints and specifications, recording changes and deviations daily.</p> <p>.2 Upon completion of work, submit final record drawings to the Engineer. These must be submitted within two (2) weeks after acceptance of work. Failure to submit drawings will result in the work being done by the Owner and the cost deducted from the final payment.</p> <p>.3 At substantial completion, employ a competent (CAD) drafts person to transfer all deviations, including those called up by addenda, revisions, clarifications, shop drawings, and change orders, on a copy of tender CAD files. From these files plot a set of as-built drawings. Drafting quality shall be same as original drawings.</p> <p>.4 The CAD files may be borrowed from the Engineer. Each "as-built" drawings shall bear the Contractor's identification, the date of record and the notation "We hereby certify that these drawings represent the As-Built Record of Construction." The Contractor's signature and company seal shall be placed below that notation.</p> <p><b>1.12 SUBSTANTIAL COMPLETION INSPECTION</b></p> <p>.1 Advise Engineer five (5) days prior to the date inspection is desired. All systems to be fully operational and any deficiencies should be noted to the Engineer.</p> <p>.2 All deficiencies shall be completed within two (2) weeks after substantial completion and letter submitted to Engineer within that time advising that the work is complete. Failure to complete work will result in work being done by the Owner and the costs deducted from final payment.</p> <p><b>1.13 EXAMINATION OF WORK</b></p> <p>.1 This project involves renovations to existing building, therefore, examine the site and local conditions to determine the difficulties in carrying out the work indicated and specified prior to submitting final price. Extras will not be considered based on the grounds of differences on site.</p> <p><b>1.14 COORDINATION WITH ELECTRICAL DIVISION</b></p> <p>.1 Contractor shall review all equipment requiring electrical hook-up with Electrical Contractor and electrical drawings prior to ordering equipment. Ensure proper electrical characteristics are determined for all affected and related work.</p> <p><b>1.15 COORDINATION OF SERVICES</b></p> <p>.1 Coordinate with proper utilities for services such as water, sewer, natural gas, and assume all charges.</p> <p><b>1.16 PERFORMANCE TESTS</b></p> <p>.1 Operate each mechanical system after mechanical and electrical work has been completed, to demonstrate that each system fulfils the requirements of the contract and operates satisfactorily. These are performance tests and must be completed before work can be finally accepted.</p> <p><b>1.17 OPERATION AND MAINTENANCE MANUALS</b></p> <p>.1 Provide four (4) copies of manuals prepared by qualified and experienced personnel for use by Owner. Manuals form part of the contract and must be delivered to the Engineer before work will be considered complete. Each manual shall provide the following:</p> <ul style="list-style-type: none"> <li>a) Layman's description of all mechanical systems including operating maintenance and lubrication instructions,</li> <li>b) Certification of all equipment where required by local codes and authorities,</li> <li>c) Shop drawings and maintenance bulletins,</li> <li>d) List address and telephone numbers of all equipment suppliers and contractors.</li> <li>e) Performance details for all equipment including curves for fans and pumps with actual operating points noted.</li> </ul> <p><b>1.18 BALANCING</b></p> <p>.1 Balance terminal boxes, exhaust fans, and air outlets to air quantities indicated on the drawings and in this specification. Where outlet quantities are not indicated, divide box capacity equally among all outlets.</p> <p>.2 Completely balance the hot water recirculation system including pump.</p> <p>.3 Submit two (2) copies of the report to Engineer within two (2) weeks after substantial completion. Failure to submit the report within the specified time will result in the work being done by the Owner and the costs deducted from final payment.</p> <p>.4 Balancing shall be performed to the following accuracies:</p> <ul style="list-style-type: none"> <li>a) Air-Terminal Outlets <math>\pm 10\%</math></li> <li>b) Air-Central Equipment <math>\pm 5\%</math></li> <li>c) Hydronic-Terminals <math>\pm 10\%</math></li> <li>d) Hydronic-Pumps and Central Equipment <math>\pm 5\%</math></li> </ul> <p><b>1.19 COOPERATE WITH THE BALANCING AGENCY AS FOLLOWS</b></p> <p>.1 Make corrections as required by Balancing Agency.</p> <p>.2 Allow Balancing Agency free access to site during construction phase. Inform Balancing Agency of any major changes made to systems during construction and provide a complete set of record drawings for their use.</p> <p>.3 Operate automatic control system and verify set points during balancing.</p> <p>.4 Provide Balancing Agency a complete set of mechanical drawings and specifications.</p> <p><b>1.20 BALANCING VALVES AND DAMPERS</b></p> <p>.1 Provide and install balancing valves, dampers, and other materials requested by the Balancing Agency and/or necessary to properly adjust or correct the systems to design flows, without additional cost to Owner.</p> <p><b>1.21 SYSTEM CLEANING</b></p> <p>.1 Flush and disinfect all domestic cold, hot and re-circulation water systems.</p> <p><b>1.22 PAINTING AND IDENTIFICATION</b></p> <p>.1 Paint all exposed ducts and pipes with colors to match interior finishes or in colors to match existing piping and ductwork systems.</p> <p>.2 Wrap-Around Plastic Identification:</p> <ul style="list-style-type: none"> <li>a) All plumbing/mechanical piping identification shall adhere to ANSI A13.1 latest edition.</li> <li>b) Exterior piping in exposed locations such as manholes/tunnels, at pad mounted chillers etc., shall utilize Seton "Ultra-Mark" or equal pipe markers.</li> <li>c) All pipe markers shall be snap around whenever possible. Markers shall be located at each wall, floor or ceiling penetration, whether exterior or interior, and every 50 ft. thereafter.</li> <li>d) Markers shall be fully legible from floor level showing medium contained in pipe, and directional arrows. Provide 3/4" diameter brass tags, secure to valve stems with key chain. Provide typed valve directories.</li> <li>e) Identify electric starting switches, thermostats controlling motors and equipment supplied under this division with lamacoid plates having 1/4" minimum letter size.</li> </ul> <p><b>1.23 FIRE-STOPPING</b></p> <p>.1 Fire-stop all pipe and duct penetrations through floors and walls, designated as fire and/or smoke separated.</p> <p>.2 Fire-stopping materials to meet ULC CAN 2S115. Acceptable Materials: by "Tremco" or "National Firestopping".</p> <p>.3 Preparation of surfaces and installation of fire-stopping materials shall be carried out as per manufacturer's instructions.</p> <p><b>1.24 SEISMIC CONTROL</b></p> <p>.1 Provide seismic restraint on all piping, ductwork and equipment to satisfy all codes and authorities having jurisdiction.</p> <p>.2 Submit shop drawings of all seismic restraint details prepared and sealed by a professional engineer. Prior to substantial completion, this professional engineer for seismic design shall visit the site to verify seismic restraint installation and provide a letter of conformance in accordance with the applicable Building Code.</p> <p>.3 Piping ductwork and equipment shall be restrained in accordance with the latest edition of the Seismic Restraints Manual for Mechanical Systems produced by SMACNA, and the latest edition of the ASHRAE Application Handbook Chapter 49, Seismic Restraints.</p> <p>.4 The contractor shall obtain approval for the location of all restraint fixing points from the structural engineer, on site, prior to installation.</p> <p>.5 Where equipment is mounted on spring or R.I.S. mounts for vibration isolation it shall be the responsibility of the manufacturer of the mount to incorporate seismic restraint.</p> <ul style="list-style-type: none"> <li>a) These restraints shall be multi-directional as described in the guidelines specified above.</li> <li>b) Provide steel frame bases where necessary to achieve this and also avoid overturning.</li> <li>c) The manufacturer shall supply certificates, signed by a Professional Engineer registered within the jurisdiction, verifying the design of the seismic restraints in accordance with this section.</li> </ul> <p>.6 Where equipment is located without vibration isolation fittings all such equipment shall be rigidly fixed with holding down bolts of sufficient strength to restrain seismic action.</p> <ul style="list-style-type: none"> <li>a) Holding down bolts shall be packed within slots to prevent movement prior to restraint commencing.</li> <li>b) Bolts shall be of sufficient strength to withstand overturning of the equipment during seismic disturbance.</li> </ul> <p><b>3. PIPING</b></p> <p><b>3.1 PIPE MATERIAL</b></p> <p>.1 Sanitary and Storm Drainage, and Vent (above grade) Material: Cast Iron.</p> <p>.2 Domestic Water Material: All domestic water shall be WIRS BRO PEX pipe.</p> <p>.3 Natural Gas; Propane (above ground): Steel Schedule 40, A53 Grade B.</p> <p>.4 Service: Refrigerant: Material: ACR Copper</p> <p><b>3.2 PIPE HANGERS AND SUPPORTS</b></p> <p>.1 All piping shall be firmly supported and securely braced. Provide copper plated hangers and supports for copper piping and galvanized hangers and supports for galvanized piping.</p> <p>.2 Use of perforated straps is not permitted for pipe hangers.</p> <p>.3 Provide ring type hangers for piping up to 1 1/2" and clevis type hangers for piping over 1 1/2".</p> <p><b>3.3 PIPE SUPPORT SPACING</b></p> <table border="1"> <thead> <tr> <th colspan="5">PIPE SUPPORT SPACING</th> </tr> <tr> <th>PIPE SIZE (INCH)</th> <th>FOR BARE PEX PIPE</th> <th>FOR PEX PIPE W/ PIPE SUPPORT</th> <th>FOR COPPER PIPE</th> <th>FOR PP-R (AQUATHERMAL PIPE)</th> </tr> </thead> <tbody> <tr> <td>1/2</td> <td>2'-8"</td> <td>6'-0"</td> <td>6'-0"</td> <td>4'-0"</td> </tr> <tr> <td>3/4</td> <td>2'-8"</td> <td>6'-0"</td> <td>6'-0"</td> <td>4'-0"</td> </tr> <tr> <td>1</td> <td>2'-8"</td> <td>8'-0"</td> <td>8'-0"</td> <td>4'-0"</td> </tr> <tr> <td>1 1/4</td> <td>2'-8"</td> <td>8'-0"</td> <td>8'-0"</td> <td>4'-0"</td> </tr> <tr> <td>1 1/2</td> <td>2'-8"</td> <td>8'-0"</td> <td>8'-0"</td> <td>4'-0"</td> </tr> <tr> <td>2</td> <td>2'-8"</td> <td>8'-0"</td> <td>8'-0"</td> <td>4'-6"</td> </tr> <tr> <td>3</td> <td>2'-8"</td> <td>8'-0"</td> <td>10'-0"</td> <td>5'-2"</td> </tr> <tr> <td>4</td> <td>NA</td> <td>NA</td> <td>12'-0"</td> <td>6'-6"</td> </tr> </tbody> </table> <p><b>4. VALVES</b></p> <p><b>4.1 DOMESTIC HOT AND COLD WATER SYSTEM VALVES</b></p> <ul style="list-style-type: none"> <li>.1 Ball valves up to 2"; bronze body, chrome plated, bronze ball, threaded or solder ends, TFE seat and packing. 600 psi non shock W.O.G. rating, Jenkins Fig. 901A, 902A.</li> <li>.2 Globe valves up to 2" shall be bronze composition disc type fitted with No. 294-S disc for cold water; and No. 110 disc for hot water service. Jenkins Fig. 106B for threaded ends; and Fig. 106BP for solder ends.</li> </ul> <p><b>5. HOT WATER SPECIALTIES</b></p> <p><b>5.1 MANUAL AIR VENTS</b></p> <ul style="list-style-type: none"> <li>.1 Provide manual air vents from short vertical section of line diameter pipe to form air chamber. Provide 1/8" brass needle valve at top of chamber.</li> </ul> <p><b>5.2 RELIEF VALVES</b></p> <ul style="list-style-type: none"> <li>.1 Provide ASME rated direct spring-loaded type, lever operated non-adjustable factory set, discharge pressure as indicated.</li> </ul> <p><b>6. INSULATION</b></p> <p><b>6.1 DUCT AND BREECHING INSULATION</b></p> <ul style="list-style-type: none"> <li>.1 All insulation on ductwork shall comply with ASHRAE 90.1-2013 standard.</li> </ul> <table border="1"> <thead> <tr> <th>Minimum Duct Insulation</th> <th>R value and Thickness</th> </tr> </thead> <tbody> <tr> <td>Supply Duct and Return Duct</td> <td>R-3.5 1.0 Inch</td> </tr> <tr> <td>Outside Air Intake</td> <td>R-3.5 1.0 Inch</td> </tr> <tr> <td>Exhaust duct with 10 feet of exterior wall or opening</td> <td>R-3.5 1.0 Inch</td> </tr> <tr> <td>Acoustic Lining</td> <td>1.0 Inch</td> </tr> </tbody> </table> <p><b>6.2 PIPING INSULATION</b></p> <ul style="list-style-type: none"> <li>.1 All cold piping to be insulated with fine fibrous glass insulation with factory applied vapour barrier jacket, moulded to conform to piping, "K" value at 75°F maximum 0.24 btu.in/ft<sup>2</sup> hr.°F. Recover with ULC labeled thermocanvas or Equivalent insulation material approved by Engineer.</li> <li>.2 All hot piping to be insulated with fine fibrous glass insulation with factory applied general purpose jacket, moulded to conform to piping, "K" value at 75°F maximum 0.24 btu.in/ft<sup>2</sup> hr.°F. Recover with ULC labeled thermocanvas or Equivalent insulation material approved by Engineer</li> </ul> <table border="1"> <thead> <tr> <th>Piping to be Insulated</th> <th>Pipe Size</th> <th>Insulation Thickness (in)</th> </tr> </thead> <tbody> <tr> <td>Domestic Cold Water</td> <td>to 40 mm 1 1/2"</td> <td>1/2</td> </tr> <tr> <td></td> <td>50mm 2" &amp; Over</td> <td>1</td> </tr> <tr> <td>Domestic Hot and Recirc.</td> <td>40mm 1 1/2"</td> <td>1</td> </tr> <tr> <td></td> <td>50mm 2" &amp; Over</td> <td>1 1/2</td> </tr> </tbody> </table> <p><b>7. PLUMBING</b></p> <p><b>7.1 PLUMBING GENERAL</b></p> <ul style="list-style-type: none"> <li>.1 Install vacuum breakers, trap primers and backflow preventers on plumbing lines as required by code.</li> <li>.2 Check invert elevations prior to sanitary and drainage connections.</li> <li>.3 Grade drainage lines 2% per foot, unless noted otherwise.</li> <li>.4 Plumbing fixtures shall be specified by the tenant. These specified plumbing fixture shall have CSA certificate and meeting water saving requirement as per building code.</li> </ul> <p><b>8. CONTROLS</b></p> <p>Mechanical contractor tender shall include pricing of controls of HVAC units.</p> <p><b>REVISION</b></p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>JUL. 10, 2023</td> <td>REV2 FOR BUILDING PERMIT</td> </tr> <tr> <td>5</td> <td>APR. 10, 2023</td> <td>REV1 FOR BUILDING PERMIT</td> </tr> <tr> <td>4</td> <td>FEB. 14, 2023</td> <td>ISSUED FOR BUILDING PERMIT</td> </tr> <tr> <td>3</td> <td>JAN. 13, 2023</td> <td>ISSUED FOR REVIEW</td> </tr> <tr> <td>2</td> <td>JAN. 06, 2023</td> <td>ISSUED FOR REVIEW</td> </tr> <tr> <td>1</td> <td>DEC. 21, 2022</td> <td>ISSUED FOR REVIEW</td> </tr> </tbody> </table> <p><b>PROJECT</b></p> <p><b>RESTAURANT - TENANT IMPROVEMENT</b></p> <p><b>SHEET TITLE</b></p> <p><b>MECHANICAL SPECIFICATION (HVAC AND PLUMBING)</b></p> <p><b>ADDRESS</b></p> <p>2101 E HASTINGS STREET, VANCOUVER, BC</p> <p><b>SCALE AS INDICATED</b></p> <p><b>DATE OCT. 31, 2022</b></p> <p><b>DESIGNED BY J.S.</b></p> <p><b>CHECKED BY X.T.</b></p> <p><b>PROJECT NO. X2218</b></p> <p><b>M-3</b></p>		PIPE SUPPORT SPACING					PIPE SIZE (INCH)	FOR BARE PEX PIPE	FOR PEX PIPE W/ PIPE SUPPORT	FOR COPPER PIPE	FOR PP-R (AQUATHERMAL PIPE)	1/2	2'-8"	6'-0"	6'-0"	4'-0"	3/4	2'-8"	6'-0"	6'-0"	4'-0"	1	2'-8"	8'-0"	8'-0"	4'-0"	1 1/4	2'-8"	8'-0"	8'-0"	4'-0"	1 1/2	2'-8"	8'-0"	8'-0"	4'-0"	2	2'-8"	8'-0"	8'-0"	4'-6"	3	2'-8"	8'-0"	10'-0"	5'-2"	4	NA	NA	12'-0"	6'-6"	Minimum Duct Insulation	R value and Thickness	Supply Duct and Return Duct	R-3.5 1.0 Inch	Outside Air Intake	R-3.5 1.0 Inch	Exhaust duct with 10 feet of exterior wall or opening	R-3.5 1.0 Inch	Acoustic Lining	1.0 Inch	Piping to be Insulated	Pipe Size	Insulation Thickness (in)	Domestic Cold Water	to 40 mm 1 1/2"	1/2		50mm 2" & Over	1	Domestic Hot and Recirc.	40mm 1 1/2"	1		50mm 2" & Over	1 1/2	NO.	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ARCHITECT: **ARCUS CONSULTING LTD.**  
#900-1200 W.73rd Ave., Vancouver, BC V6P 6G5  
Direct 604-264-1436  
Office 604-264-1450 ext.105  
Email: mark@arcus.ca

MECHANICAL ENGINEER: **XT ENGINEERING LTD.**  
100 - 10551 SHELLBRIDGE WAY, RICHMOND, BC  
WEBSITE: www.xtengineering.com  
PHONE: 778-706-5858  
EMAIL: tan@xtengineering.com

EGBC PERMIT TO PRACTICE NO: 1000162  
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Permit to Practice No: 1000162  
X TAN #36565  
2023-07-12

Branch: BUILDING REVIEW BRANCH  
Date: AUG 9, 2023  
Permit #: DB-2023-00887  
Page #: 5 of 6  
Staff: KRISTA BIRCHAM  
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PROJECT

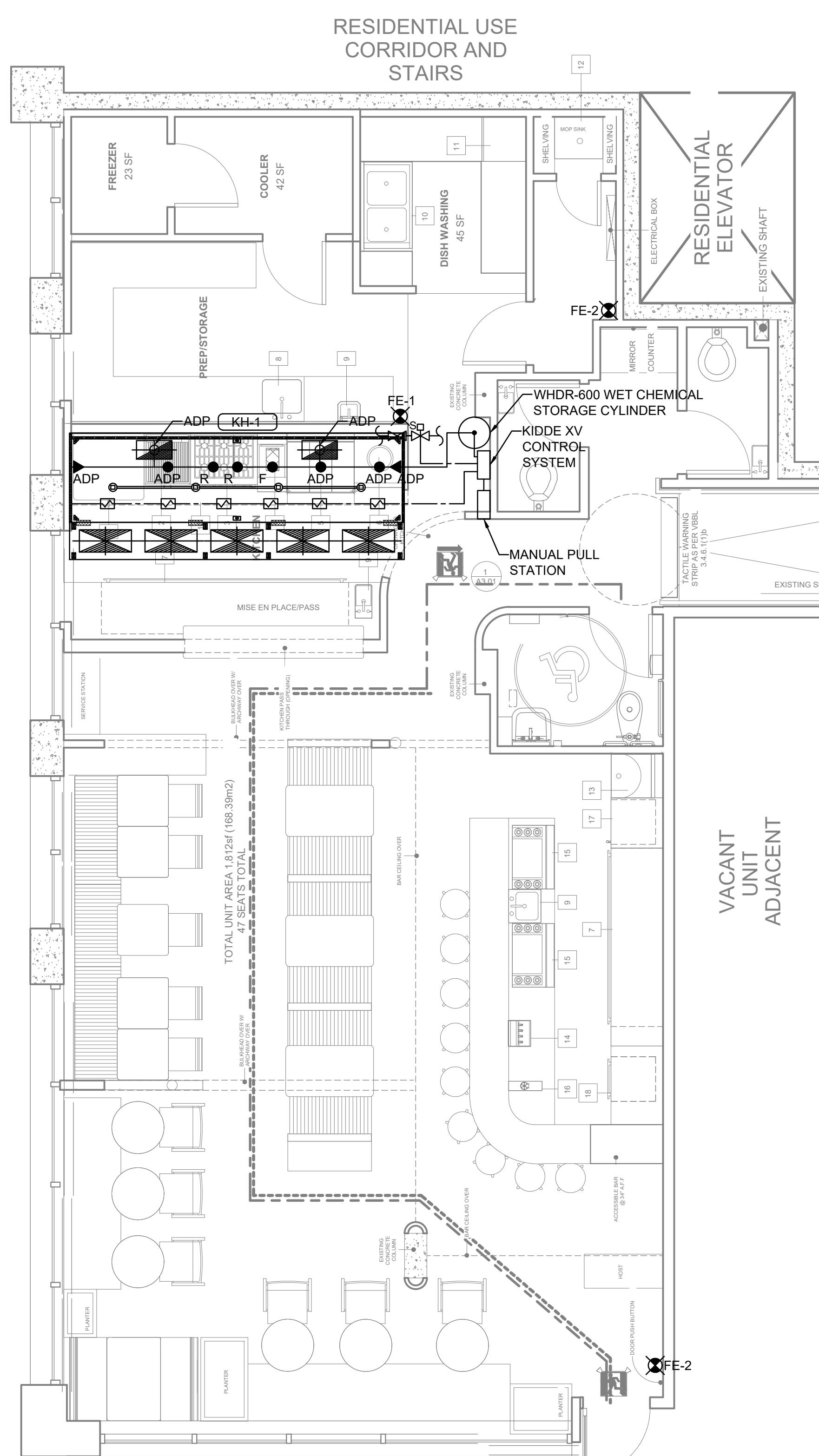
RESTAURANT - TENANT IMPROVEMENT

SHEET TITLE

MECHANICAL SPECIFICATION (HVAC AND PLUMBING)

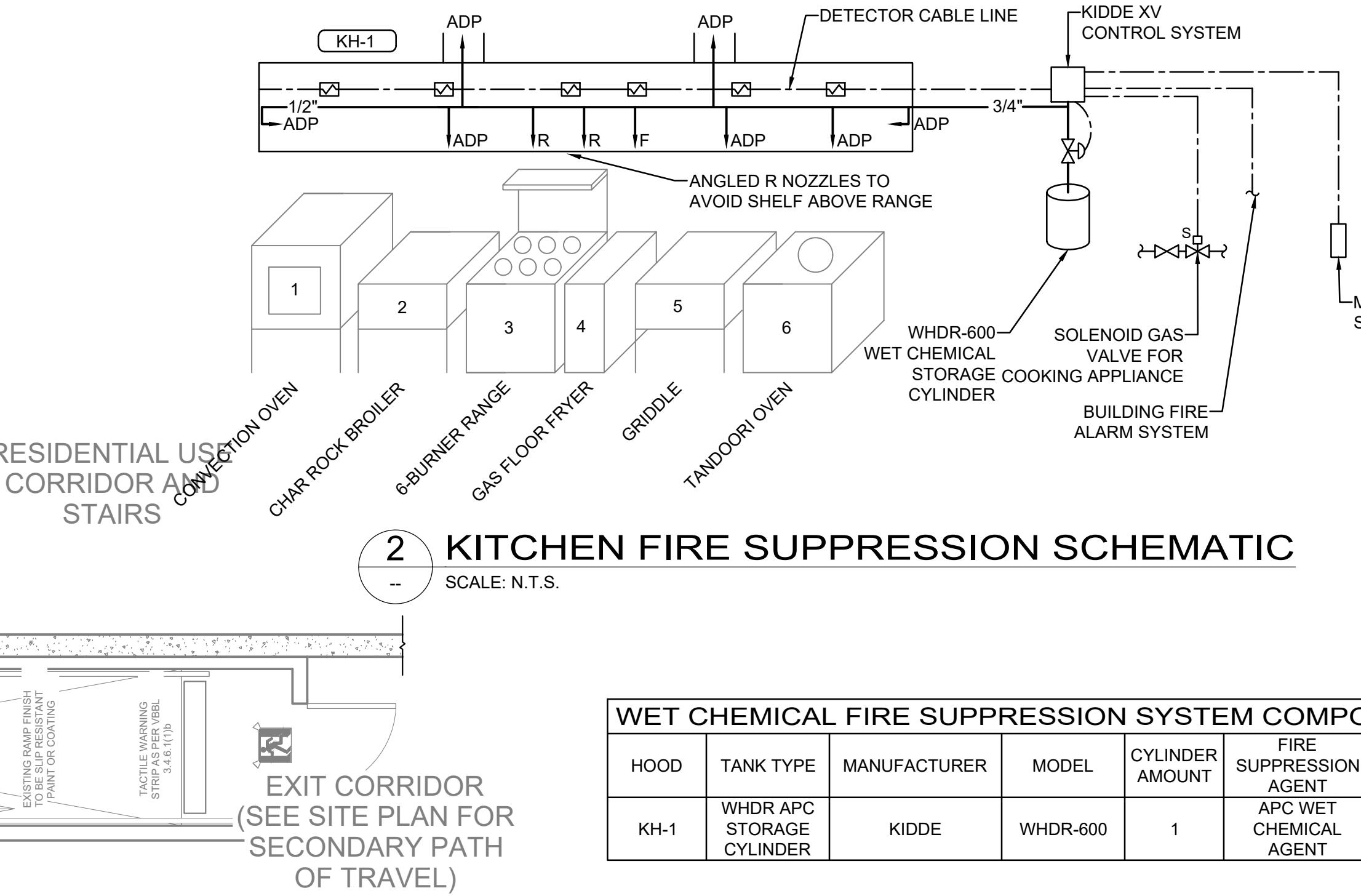
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M-3



FIRE SUPPRESSION LEGEND SYMBOLS		DESCRIPTION
□		FUSIBLE LINK PIPE RISE
○		PIPE DROP
—○—		PIPE TOP TAKE-OFF
—○—		PIPE BOTTOM TAKE-OFF
—□—		PIPE CAP
—□—		PIPE CONTINUATION
—□—		SHUT OFF VALVE
—○—		SOLENOID VALVE
—○—		DIRECTION OF FLOW
—○—		WET CHEMICAL LINE
—○—		PIPE EXTINGUISHER
—○—		UP DISCHARGE NOZZLE
—○—		DOWN DISCHARGE NOZZLE
—○—		SIDE DISCHARGE NOZZLE
—○—		EQUIPMENT TYPE
—○—		KEYNOTE DESIGNATOR
—○—		REVISION DESIGNATOR
ABBREVIATIONS		
R		RANGE
ADP		APPLIANCE DUCT PLENUM
GRW		GAS RADIANT/WOK
F		FRYER
NOTE: NOT ALL SYMBOLS USED ON THESE DRAWINGS		

WET CHEMICAL FIRE SUPPRESSION SYSTEM SEQUENCE OF OPERATIONS			
TAG	COVERED EQUIPMENT	DETECTOR	ACTION UNDER FIRE (OR)
3	CONVECTION OVEN	ALLOY FUSIBLE LINK	BREAK LINK
4	CHAR ROCK BROILER	ALLOY FUSIBLE LINK	BREAK LINK
5	36 IN RANGE	ALLOY FUSIBLE LINK	BREAK LINK
6	FRYER	ALLOY FUSIBLE LINK	BREAK LINK
7	GRIDDLE	ALLOY FUSIBLE LINK	BREAK LINK
8	TANDOORI OVEN	ALLOY FUSIBLE LINK	BREAK LINK
	DUCT AND HOOD OR		
	MANUAL PULL STATION	MANUAL OPERATION	PULL OFF
	MANUAL PULL STATION	MANUAL OPERATION	PULL OFF



FIRE EXTINGUISHER SCHEDULE					
TAG	MANU.	APPLICATION	CAPACITY	REMARKS	
FE-1	KIDDE	CLASS K - COMMERCIAL KITCHEN	6 L (1.6 GAL.)	ULC LISTED, MEET NFPA-96 AND NFPA-10 REQUIREMENTS	
FE-2	KIDDE	CLASS ABC - COMMERCIAL CUSTOMER AREA	5.5 LBS	ULC LISTED, MEET NFPA-10 REQUIREMENTS	

WET CHEMICAL FIRE SUPPRESSION SYSTEM COMPONENT SCHEDULE - CONTROL					
HOOD	EQUIPMENT	MANUFACTURER	REMARKS		
KH-1	REMOTE MANUAL PULL STATION	KIDDE	MOUNTED 48" ABOVE FINISHED FLOOR		

WET CHEMICAL FIRE SUPPRESSION SYSTEM COMPONENT SCHEDULE - NOZZLES					
HOOD	COVERED EQUIPMENT	NOZZLE TYPE	MANU.	AMT.	FLOW NUMBER
KH-1	EXHAUST PLENUM	ADP	KIDDE	2	2
KH-1	EXHAUST DUCT	ADP	KIDDE	2	2
KH-1	CHAR ROCK BROILER	ADP	KIDDE	1	1
KH-1	36 IN RANGE	R	KIDDE	2	2
KH-1	FRYER	F	KIDDE	1	2
KH-1	GRIDDLE	ADP	KIDDE	1	1
KH-1	TANDOORI OVEN	ADP	KIDDE	1	1
TOTAL				10	11

WET CHEMICAL FIRE SUPPRESSION SYSTEM COMPONENT SCHEDULE - STORAGE					
HOOD	TANK TYPE	MANUFACTURER	MODEL	CYLINDER AMOUNT	REMARKS
KH-1	WHDR APC STORAGE CYLINDER	KIDDE	WHDR-600	1	APC WET CHEMICAL AGENT INCLUDE AUTOMATIC SHUTOFF VALVE WITH MANUAL RESET, C/W APPROVED BRACKET MOUNTED ON WALL IN KITCHEN

**KIDDE WHDR WET CHEMICAL FIRE SUPPRESSION SYSTEM FOR COOKING OPERATIONS**

- 1. GENERAL**
  - The system shall be a pre-engineered, fixed pipe, automatic wet chemical agent fire suppression system for protection of all hazard areas associated with cooking operations, including exhaust hoods, plenums, ductwork and cooking appliances.
  - The system shall be a Kidde Fire Systems, Model WHDR Wet Chemical Fire Suppression System, manufactured by Kidde Fire Systems, 400 Main Street, Ashland, Massachusetts. The manufacturer shall be ISO 9001:2015 certified.
  - All requirements outlined in this specification shall be completed in their entirety. These requirements, combined with good engineering practices must be followed in order to produce a safe and effective fire protection and suppression system.
- 2. CODES & STANDARDS COMPLIANCE**
  - The design, installation, testing and maintenance of the system shall be in accordance with the following codes and standards as applicable:
    - UL 300, Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment
    - UL1254, Standard for Pre-Engineered Dry Chemical Extinguishing System Units
    - ULC/ORD-C1254.6, Fire Testing of Restaurant Cooking Area Fire Extinguishing System Units
    - NFPA 17A: Standard for Wet Chemical Extinguishing Systems
    - NFPA 70: National Electrical Code® (NEC)
    - NFPA 72: National Fire Alarm and Signaling Code
    - NFPA 96: Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations
    - Kidde Fire Systems WHDR Wet Chemical Fire Suppression System Design, Installation, Operation and Maintenance (DIOM) Manual, part number 87-122000-001 and all applicable addenda & technical bulletins, as identified by Underwriters Laboratories and Underwriters Laboratories Canada, File No. EX3559
    - All applicable insurance company requirements
    - All applicable local and state codes and standards
    - Requirements of the Local Authorities Having Jurisdiction (AHJ)
  - The wet chemical system shall have the following listings and approvals as applicable:
    - Underwriters Laboratories (UL), per Test Standard UL 300
    - Underwriters Laboratories Canada (ULC), per Standard ULC/ORD-C1254.6
    - Fire Department, City of New York, Certificate of Approval
  - The manufacturer shall meet ISO 9001 requirements for the design, production and distribution of the wet chemical suppression systems for cooking operations.
- 3. SYSTEM DESCRIPTION**
  - All wet chemical suppression equipment and accessories must be manufactured and/or supplied by Kidde Fire Systems, 400 Main Street, Ashland, MA 01721, USA, Telephone 508.881.2000, [www.kiddefiresystems.com](http://www.kiddefiresystems.com).
  - The manufacturer shall warranty all WHDR Wet Chemical Fire Suppression System products for three (3) years from the date of purchase.
  - The system shall be supplied and installed by factory authorized, Kidde Fire Systems distributor. The organization and installer shall be trained by the manufacturer to design, install, test and maintain the WHDR Wet Chemical Fire Suppression System and shall be able to produce a certificate stating such upon request.
  - The wet chemical fire suppression system for the cooking appliances and ventilation shall be a pre-engineered modular Kidde model WHDR.
  - The system shall consist of Kidde WHDR Series Cylinder & Valve Assemblies, Kidde actuation hardware and Kidde distribution nozzles attached to a fixed pipe network.
  - The system shall use Kidde APC wet chemical agent, a potassium salt solution fire suppression agent. This agent works by producing a synthetic cellular mass (saponification) on the surface of hot or burning grease. This foam layer acts to smother a fire, and serves to prevent re-flash until the grease cools.
- 4. COMPONENTS**
  - 4.1 WHDR Series Cylinder & Valve Assembly**
    - Kidde APC wet chemical agent shall be contained in one or more stored pressure DOT/TC rated steel cylinder and valve assemblies. Cylinders requiring an external source to pressurize the cylinder shall not be acceptable.
    - Sufficient cylinder quantities and sizes to protect the entire hazard area shall be provided in accordance with the Kidde WHDR DIOM Manual and filled with the required amount of APC wet chemical agent.
    - The cylinder(s) shall have a tin-nickel alloy plated brass valve, with visual pressure gauge. Agent cylinders without pressure gauges shall not be acceptable. The valve shall contain a check stem which is operated by the stroke of the actuating assembly. Agent cylinders utilizing a burst disc as a means of sealing the discharge outlet shall not be acceptable.
- 5. SYSTEM INSTALLATION AND COMMISSIONING**
  - 5.1 Kidde WHDR Wet Chemical Fire Suppression System Equipment**
    - A factory authorized Kidde Fire Systems distributor shall install and commission the system in accordance with the Kidde WHDR DIOM Manual.
  - 5.2 Training Requirements**
    - The installer shall be trained and certified by Kidde Fire Systems on design, installation, testing and maintenance of the Kidde WHDR Wet Chemical Fire Suppression System.
  - 5.3 Routine Maintenance**
    - Routine maintenance shall be performed by an authorized Kidde Fire Systems distributor, and in accordance with the Kidde WHDR DIOM Manual, NFPA 96, NFPA 17A, all applicable local codes and standards, and requirements of the local Authority Having Jurisdiction.

ARCHITECT:  
**ARCUS CONSULTING LTD.**  
#900-1200 W.73rd Ave.,  
Vancouver, BC V6P 6G5  
Direct 604-264-1436  
Office 604-264-1450 ext.105  
Email: [mark@arcus.ca](mailto:mark@arcus.ca)

MECHANICAL ENGINEER:  
**XT ENGINEERING LTD.**  
100 - 10551 SHELLBRIDGE WAY,  
RICHMOND, BC  
WEBSITE: [www.xtengineering.com](http://www.xtengineering.com)  
PHONE: 778-706-5858  
EMAIL: [tan@xtengineering.com](mailto:tan@xtengineering.com)

**XT ENGINEERING LTD.**  
EGBC PERMIT TO PRACTICE NO:  
1000162  
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PROFESSIONAL  
CITY OF VANCOUVER  
BRITISH COLUMBIA  
Branch: BUILDING REVIEW BRANCH  
Date: AUG 9, 2023  
Permit #: DB-2023-00867  
Page #: 6 of 6  
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PROJECT

RESTAURANT - TENANT IMPROVEMENT

SHEET TITLE

WET CHEMICAL KITCHEN FIRE SUPPRESSION PLAN

ADDRESS  
2101 11 HASTINGS STREET,  
VANCOUVER, BC  
SCALE  
AS INDICATED  
DATE  
OCT. 31, 2022  
DESIGNED BY  
J.S.  
CHECKED BY  
X.T.  
PROJECT NO.  
X2218

**F-1**