

GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.

MECHANICAL DRAWING SYMBOLS LEGEND

	TYPICAL EXISTING
	TYPICAL NEW
	TYPICAL DEMOLITION / REMOVALS
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	HIGH PRESSURE STEAM
	HIGH PRESSURE CONDENSATE
	LOW PRESSURE STEAM
	HIGH PRESSURE CONDENSATE
	VALVE
	DRAIN VALVE
	BALANCING VALVE
	STRAINER
	CAP
	CONTROL VALVE
	PRESSURE REDUCING VALVE
	PIPE UP
	PIPE DOWN
	UNION
	STEAM TRAP
	THERMOSTAT
	AIR VENT
	PRESSURE GAUGE
	CONTROL WIRING
	PRESSURE REDUCING STATION
	UNIT HEATER
	ANALOG INPUT
	ANALOG OUTPUT
	RISER NUMBER XX
	DIGITAL OUTPUT
	REDUCER

ELECTRIC HEATING COIL SCHEDULE

TAG	LOCATION	TOTAL HEATING (kW)	SENSIBLE HEATING (kW)	EDBT (°C)	LDBT (°C)	AIR FLOW (m³/hr)	APD (Pa)	AIR VELOCITY (m/s)	VOLTAGE (V)	AMPS (A)	REMARKS
XX	RM 78	7.5	7.5	15	30	1528	125	6.1	575/1/60	XX	NEW

NOTE:
 1. NEW ELECTRIC HEATING COIL IS BASED ON A THERMOLEK 7.5KW COIL. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

WALL FIN ENCLOSURE AND ELEMENTS SCHEDULE

No.	LEVEL	RISER	ROOM	ROWS	ENCLOSURE HEIGHT (mm)	ENCLOSURE DEPTH (mm)	TUBE LENGTH (mm)	ENCLOSURE LENGTH (mm)	HEATING CAPACITY (kW)
077A	BASEMENT	77	77A	2 (300mm CENTERS)	610	133	1905	2362	3.5
075C	BASEMENT	82	75C	2 (300mm CENTERS)	610	133	1905	2362	3.5
087	BASEMENT	73	87	2 (300mm CENTERS)	610	133	1905	2362	3.5
097-1	BASEMENT	68A	97	2 (300mm CENTERS)	610	133	1905	2362	3.5
097-2	BASEMENT	68A	97	2 (300mm CENTERS)	610	133	1905	2362	3.5
099	BASEMENT	68A	99	2 (300mm CENTERS)	610	133	1905	2362	3.5
101B	BASEMENT	68A	101B	2 (300mm CENTERS)	610	133	1905	2362	3.5

NOTES:
 - BASED ON 65°F EAT, 170°F AVERAGE WATER TEMPERATURE.
 - CABINETS ARE TO BE MOUNTED WITH A MINIMUM 100mm OF BOTTOM CLEARANCE.
 - EQUIPMENT SELECTION, MODEL SIGMA. ENCLOSURE: SWE. ELEMENT TYPE: ELMT-44C075.
 - ENCLOSURE LENGTH IS TO FIT WITHIN THE WINDOW OPENING OF APPROXIMATELY 2362mm.
 - PHYSICAL DIMENSIONS ARE LISTED ON THE SCHEDULE FOR COSTING PURPOSES ONLY. IT SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR TO MEASURE THE AVAILABLE SPACE FOR INTERFERENCES AND PIPING LAYOUT, AND CONFIRM THE SIZE AND SUITABILITY OF ALL ENCLOSURES/ELEMENTS PRIOR TO ORDERING AND INSTALLING.

UNIT HEATERS SCHEDULE

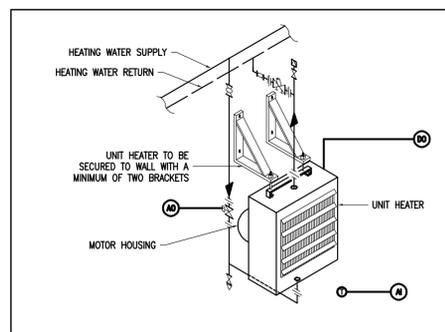
No.	LEVEL	RISER	ROOM	AIRFLOW (L/S)	WATER FLOW (L/S)	CAPACITY (kW)	EWT/LWT (°C)	MOTOR HP	MOTOR RPM	ELECTRICAL V/PH/Hz	MANUFACTURER (SIGMA) / MODEL	NOTES
77UH101A	BASEMENT	68A	101A	1594	0.94	43	82.2/71.1	1/2	850	120/1/60	200H	1
77UH101	BASEMENT	68A	101	1226	0.71	32	82.2/71.1	1/4	1075	120/1/60	133H	1
77UH085	BASEMENT	75	85	1226	0.71	32	82.2/71.1	1/4	1075	120/1/60	133H	1,2
77UH077	BASEMENT	79	77	1226	0.71	32	82.2/71.1	1/4	1075	120/1/60	133H	1

NOTES:
 1. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS
 2. PROVIDE WITH EXPLOSION PROOF MOTOR.

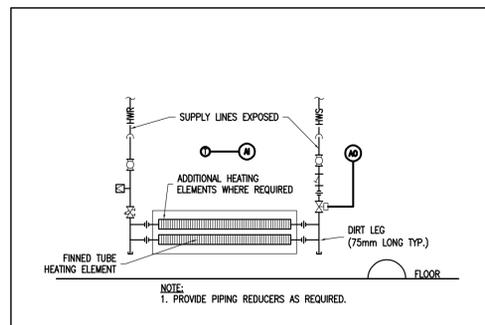
CONTROL VALVES

IDENTIFICATION	LEVEL	RISER	ROOM	DIAMETER (mm)	FLOW (L/S)	SPECIFIC GRAVITY	PRESSURE LOSS (kPa)	Cv	NOTES
77CV077A	BASEMENT	77	77A	15	0.08	1.0	11	1.0	1.2
77CV075C	BASEMENT	82	75C	15	0.08	1.0	11	1.0	1.2
77CV101B	BASEMENT	68A	101B	15	0.08	1.0	11	1.0	1.2
77CV101A	BASEMENT	68A	101A	25	0.94	1.0	31	7.0	1.2
77CV101	BASEMENT	68A	101	25	0.71	1.0	18	7.0	1.2
77CV085	BASEMENT	75	85	25	0.71	1.0	18	7.0	1.2
77CV077	BASEMENT	79	77	25	0.71	1.0	18	7.0	1.2
77CV099	BASEMENT	68A	101B	20	0.32	1.0	9	4.3	1.2

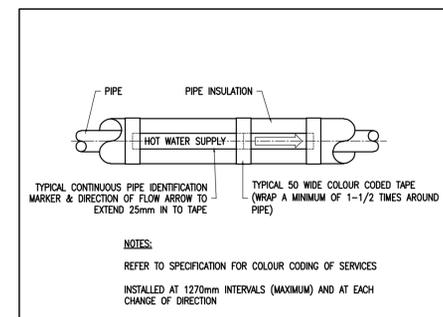
NOTES:
 1. PROVIDE REDUCER AS REQUIRED.
 2. PROVIDED BY DIVISION 25, INSTALLED BY DIVISION 23, WIRED BY DIVISION 25.



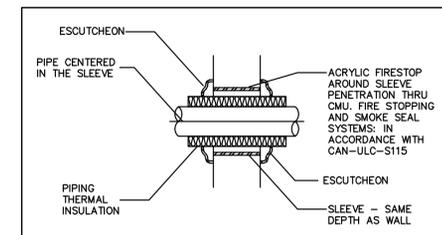
1 HOT WATER UNIT HEATER DETAIL
 MO1 SCALE = NTS



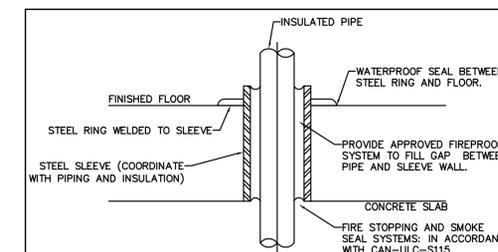
2 WALL FIN ENCLOSURE DETAIL
 MO1 SCALE = NTS



3 PIPE IDENTIFICATION DETAIL
 MO1 SCALE = NTS

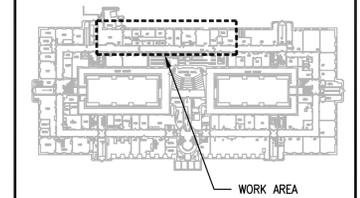


4 WALL SLEEVE
 MO1 SCALE = NTS



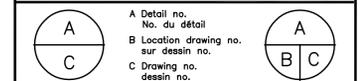
5 FLOOR SLEEVE
 MO1 SCALE = NTS

KEY PLAN PLAN CLÉ



0	JULY 2022	ISSUED FOR TENDER	JWG
No.	Date	Revision	By:

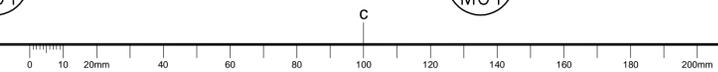
Date Printed: 00 MM YYYY / Date imprimée: _____
 Verify all dimensions and site conditions and be responsible for same / Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



project: S77 STEAM TO HOT WATER CONVERSION RM. 75C, 77, 77A, 85, 87, 97, 99, 101, 101A, 101B

SUSSEX CAMPUS
 drawing: MECHANICAL: LEGEND, EQUIPMENT SCHEDULE, DETAILS, AND CONTROLS

designed	conçu	date	date
ZF/JWG		JULY 2022	
drawn	dessiné	scale	échelle
ZF/SQ		AS NOTED	
checked	vérifié	sheet	feuille
RQC		1 of/de 5	
approved	approuvé	W.O.no.	D.T.no.
ALS		910002748	
dwg.no.			dessin no.
6032-M01			

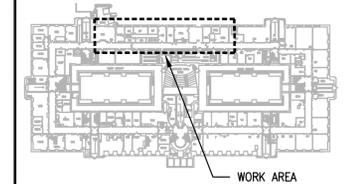




GENERAL NOTES

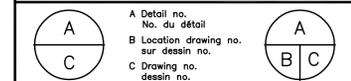
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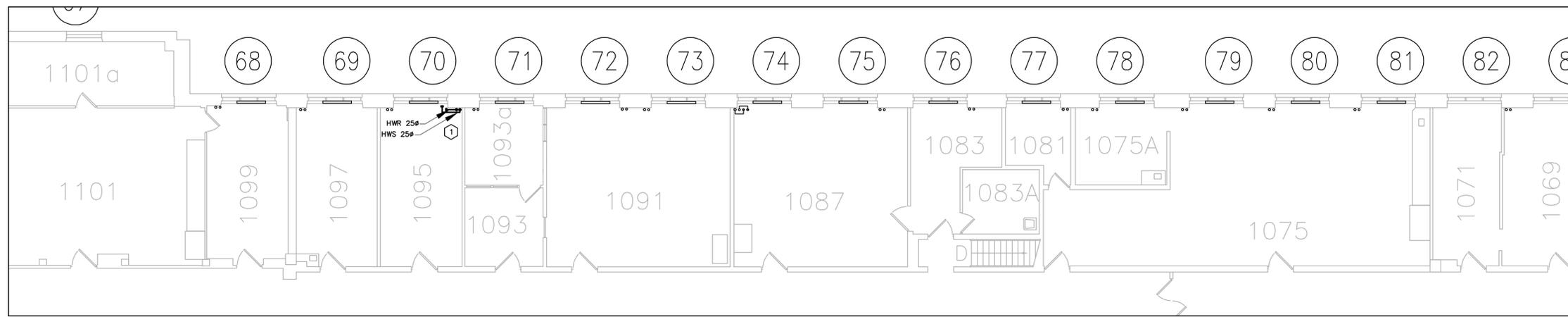


project S77 STEAM TO HOT WATER CONVERSION RM. 75C, 77, 77A, 85, 87, 97, 99, 101, 101A, 101B

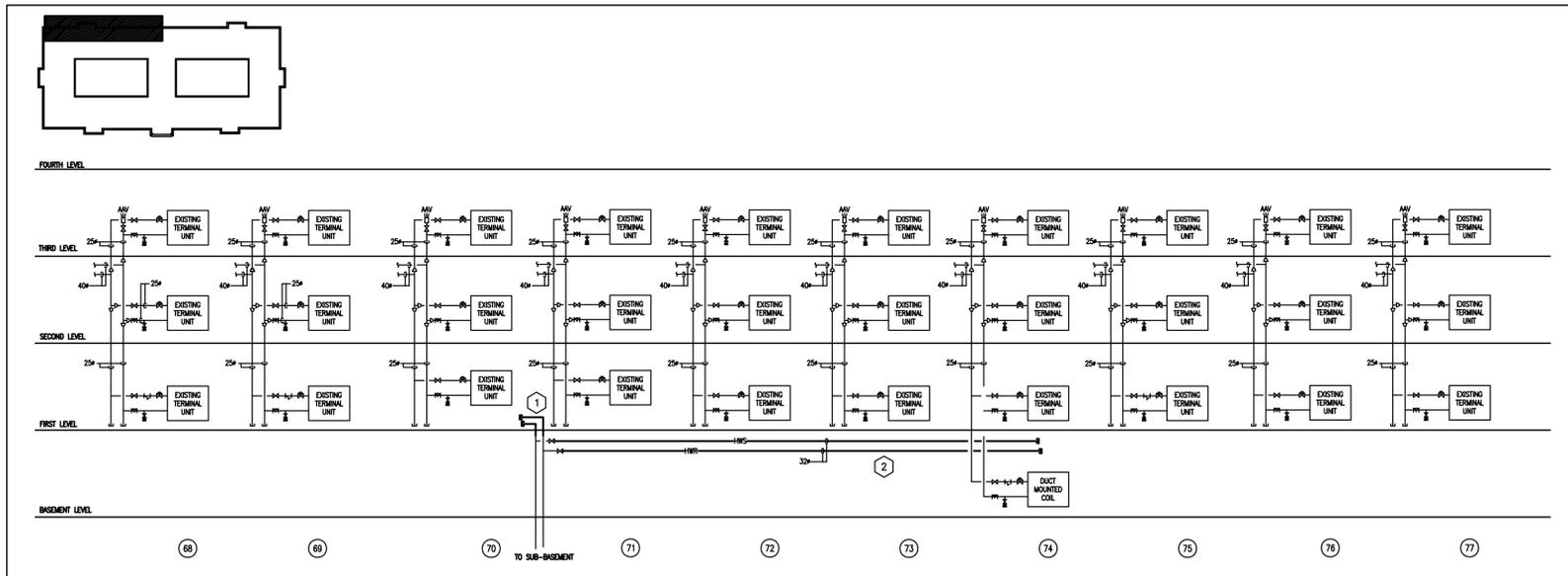
SUSSEX CAMPUS
 drawing MECHANICAL: GROUND FLOORS, AND RISER PIPING DIAGRAMS - PIPING DEMOLITION

designed ZF/JWG	conçu	date JULY 2022	date
drawn ZF/SQ	dessiné	scale AS NOTED	échelle
checked RGC	vérifié	sheet 2 of/de 5	feuille
approved ALS	approuvé	W.O.no. 910002748	D.T.no.

dwg.no. 6032-M02 dessin no.



1 GROUND FLOOR HEATING PIPING - DEMOLITION
 MO2 SCALE = 1:100



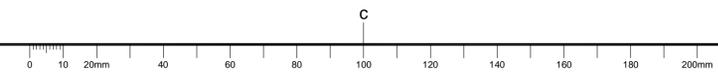
2 HEATING PIPING RISER DIAGRAM - DEMOLITION
 MO2 SCALE = NTS

GENERAL NOTE:

- THE BUILDING'S DESIGNATED SUBSTANCE REPORT WILL BE PROVIDED TO THE CONTRACTOR UPON AWARD OF CONTRACT. CONTRACTOR TO PROVIDE FOR ASBESTOS ABATEMENT DUE TO POTENTIAL PRESENCE IN PIPE THERMAL INSULATION.

DEMOLITION NOTES: (X)

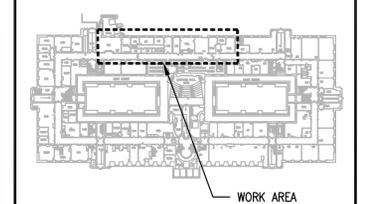
- EXISTING HEATING WATER SUPPLY AND RETURN PIPING TO BE REMOVED AS INDICATED ON DRAWINGS. PIPING PENETRATION THROUGH FLOOR TO BE CAPPED; GRIND ADJACENT AREA TO ALLOW FLUSH INSTALLATION. INFILL PENETRATION TO HILTI FIRESTOP SYSTEM F-A-001.
- EXISTING HEATING WATER SUPPLY AND RETURN PIPING TO BE REMOVED AS INDICATED ON DRAWING. PIPING TO BE CAPPED DOWNSTREAM OF EXISTING ISOLATION VALVES.



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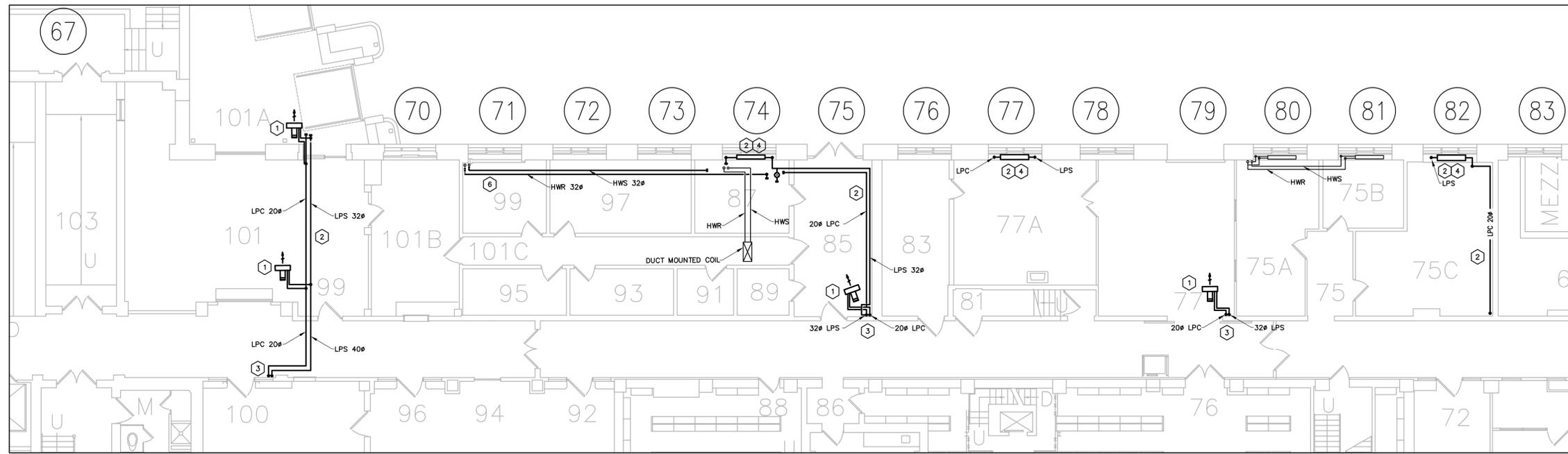
Date Printed: 00 MM YYYY / Date imprimée: _____

A	A Detail no. / No. du détail	A
B	B Location drawing no. / sur dessin no.	B
C	C Drawing no. / dessin no.	C

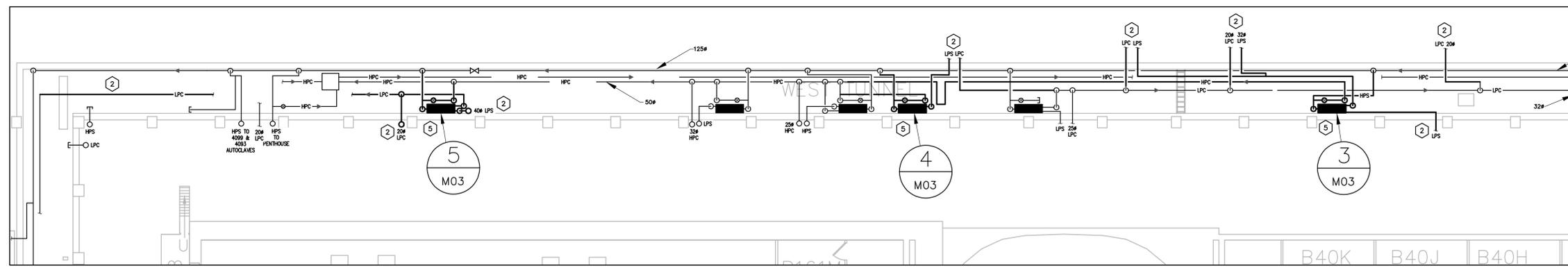
project: S77 STEAM TO HOT WATER CONVERSION RM. 75C, 77, 77A, 85, 87, 97, 99, 101A, 101B / projet

SUSSEX CAMPUS / drawing: MECHANICAL: BASEMENT AND SUB-BASEMENT FLOORS - PIPING DEMOLITION / dessin

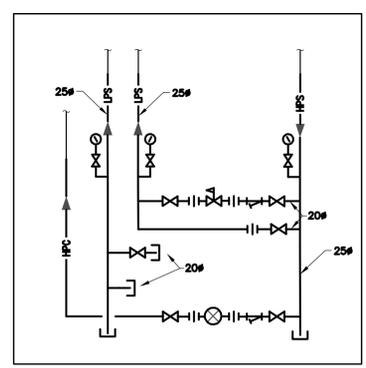
designed / conçu	ZF/JWG	date / date	JULY 2022
drawn / dessiné	ZF/SQ	scale / échelle	AS NOTED
checked / vérifié	RGC	sheet / feuille	3 of/de 5
approved / approuvé	ALS	W.O.no. / D.T.no.	910002748
dwg.no. / dessin no.	6032-M03		



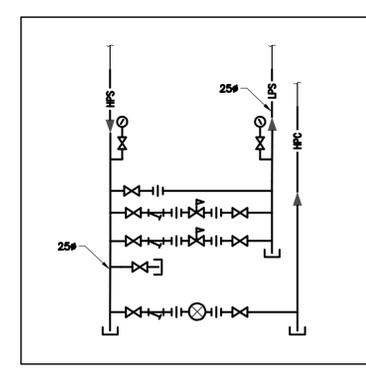
1 BASEMENT FLOOR HEATING PIPING - DEMOLITION / **M03** SCALE = 1:100



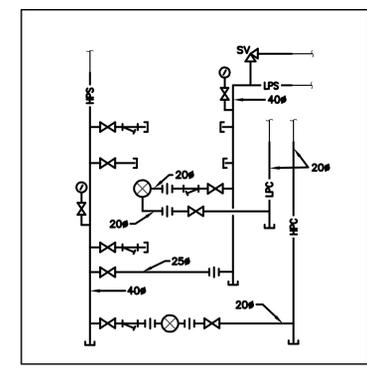
2 SUB-BASEMENT FLOOR HEATING PIPING - DEMOLITION / **M03** SCALE = 1:125



3 STEAM PRV STATION DETAIL / **M03** SCALE = NTS

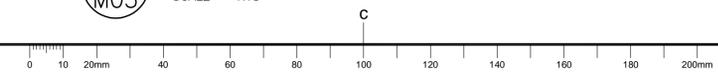


4 STEAM PRV STATION DETAIL / **M03** SCALE = NTS



5 STEAM PRV STATION DETAIL / **M03** SCALE = NTS

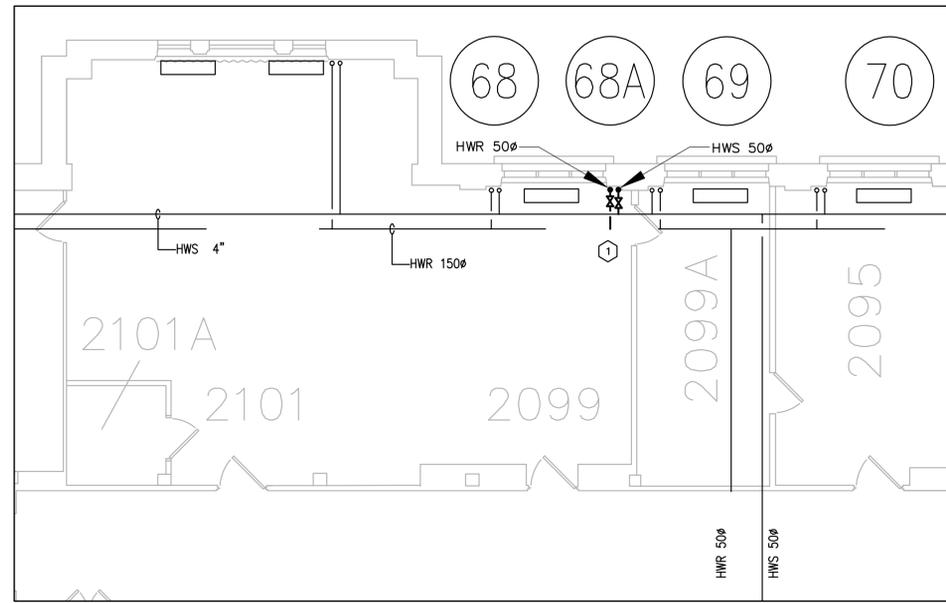
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- DEMOLITION NOTES:**
- EXISTING UNIT HEATER TO BE REMOVED AS INDICATED ON DRAWINGS ALONG WITH SUPPORTS, VALVES, ACCESSORIES, AND CONTROLS.
 - EXISTING LOW PRESSURE STEAM AND CONDENSATE PIPING, ALONG WITH SUPPORTS, TO BE REMOVED AS INDICATED ON DRAWINGS. PIPING TO BE CAPPED AT THE SUB-BASEMENT LEVEL.
 - EXISTING STEAM AND CONDENSATE PIPING DOWN TO THE SUB-BASEMENT TO BE REMOVED. FLOOR PENETRATION TO BE CAPPED, GRAND ADJACENT AREA TO ALLOW FLUSH INSTALLATION. INFILL PENETRATION TO HLTI FIRESTOP SYSTEM F-A-0001.
 - EXISTING STEAM RADIATOR TO BE REMOVED ALONG WITH ASSOCIATED SUPPORTS, PIPING, AND VALVES.
 - EXISTING STEAM PRV STATIONS TO BE REMOVED IN THE SUB-BASEMENT LEVEL. REFER TO DETAIL 3, 4, AND 5 ON THE PRESENT DRAWING.
 - EXISTING SUPPLY AND RETURN HEATING PIPING TO BE REMOVED AS INDICATED ON DRAWINGS. PIPING TO BE CAPPED DOWNSTREAM OF EXISTING ISOLATION VALVES.



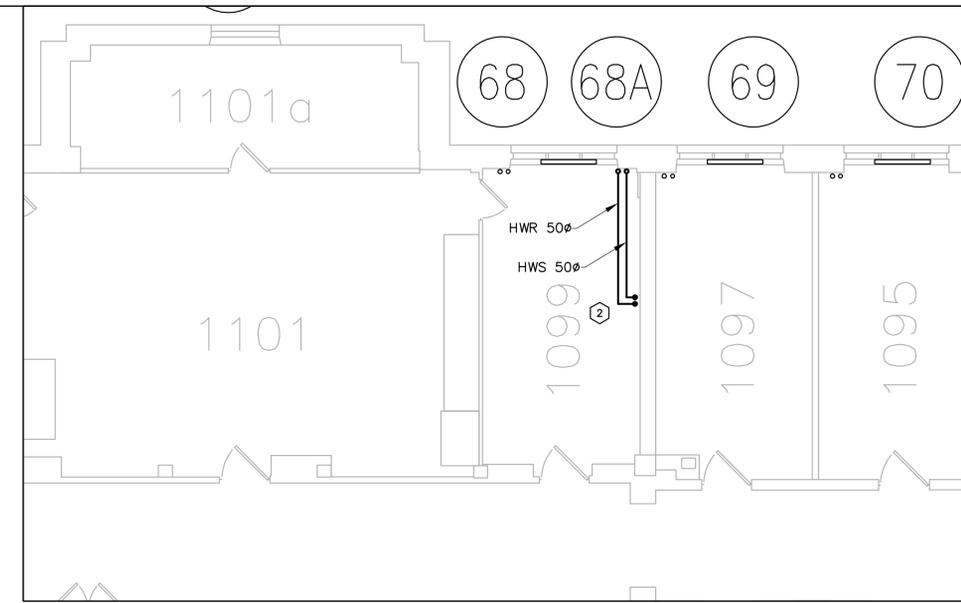


GENERAL NOTES

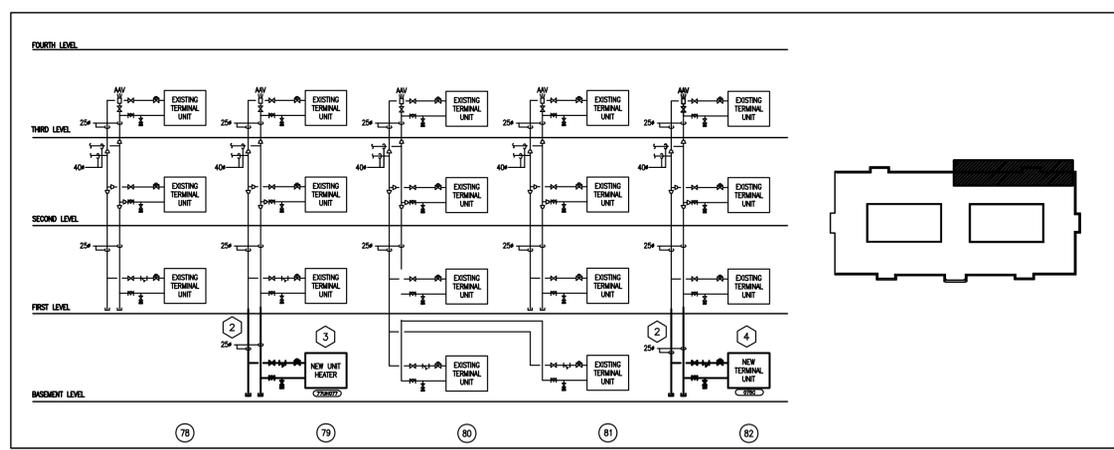
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1 2ND FLOOR HEATING PIPING - NEW LAYOUT
 MO4 SCALE = 1:75



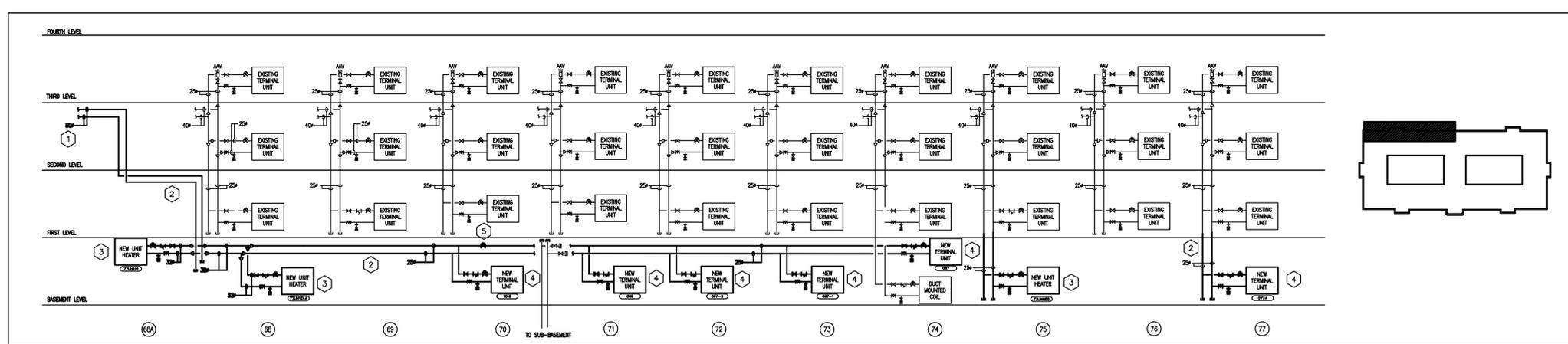
2 GROUND FLOOR HEATING PIPING - NEW LAYOUT
 MO4 SCALE = 1:75



3 HEATING RISER PIPING DIAGRAM - NEW LAYOUT
 MO4 SCALE = NTS

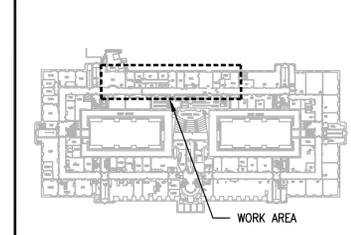
NEW WORK NOTES: (X)

- PROVIDE NEW SUPPLY AND RETURN PIPING CONNECTIONS ON 2ND FLOOR LEVEL AS INDICATED ON DRAWING. PROVIDE ISOLATION VALVES FOR NEW SUPPLY AND RETURN RISERS.
- PROVIDE NEW SUPPLY AND RETURN PIPING AS INDICATED ON DRAWING ALONG WITH SUPPORTS AND INSULATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS. PROVIDE NEW SLEEVE FOR PENETRATIONS THROUGH THE FLOOR SLAB (SEE DETAIL 5 ON DRAWING 6032-M01). CAULK AROUND ALL PENETRATIONS. STANDARD OF ACCEPTANCE: HILTI CP 606 ACRYLIC FIRESTOP SEALANT OR APPROVED EQUAL.
- PROVIDE NEW UNIT HEATER AS PER DRAWINGS ALONG WITH SUPPORTS. REFER TO EQUIPMENT SCHEDULE ON DRAWING 6032-M01 AND SPECIFICATIONS FOR ADDITIONAL DETAILS.
- PROVIDE NEW WALL FIN ENCLOSURE AND HEATING ELEMENTS AS INDICATED ON DRAWINGS. REFER TO EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL DETAILS. PHYSICAL DIMENSIONS OF NEW ENCLOSURES ARE LISTED ON THE SCHEDULE FOR COSTING PURPOSES ONLY. IT SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR TO MEASURE THE AVAILABLE SPACE FOR INTERFERENCES AND PIPING LAYOUT, AND CONFIRM THE SIZE AND SUITABILITY OF ALL WALL FIN ENCLOSURES PRIOR TO ORDERING AND INSTALLING.
- PROVIDE NEW CONTROL VALVE CONTROLLING WALL FINS IN THE CHEMICAL STORAGE AREA (RM. 087, 097, 099). CONTROL VALVE TO MODULATE AND MAINTAIN HIGHEST HEATING DEMAND FOR ALL ROOMS.



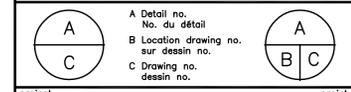
4 HEATING RISER PIPING DIAGRAM - NEW LAYOUT
 MO4 SCALE = NTS

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Date Printed / DO MM YYYY		Date imprimée	

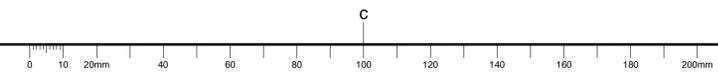
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project / projet
 S77 STEAM TO HOT WATER CONVERSION RM. 75C, 77, 77A, 85, 87, 97, 99, 101, 101A, 101B

SUSSEX CAMPUS
 drawing / dessin
 MECHANICAL: 2ND, GROUND FLOORS, AND RISER
 PIPING DIAGRAMS - PIPING NEW LAYOUT

designed / conçu	date	date
ZF/SG	JULY 2022	
drawn / dessiné	scale	échelle
ZF/SG	AS NOTED	
checked / vérifié	sheet / de	feuille
RQC	4	5
approved / approuvé	W.O.no.	D.T.no.
ALS	910002748	
dwg.no.	dessin no.	
6032-M04		

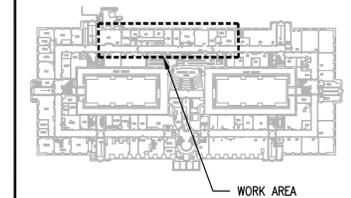




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- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.

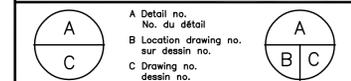
KEY PLAN / PLAN CLÉ



0	JULY 2022	ISSUED FOR TENDER	JWG
No.	Date	Revision	By:

Date Printed: 00 MM YYYY / Date imprimée

- Verify all dimensions and site conditions and be responsible for same.
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.

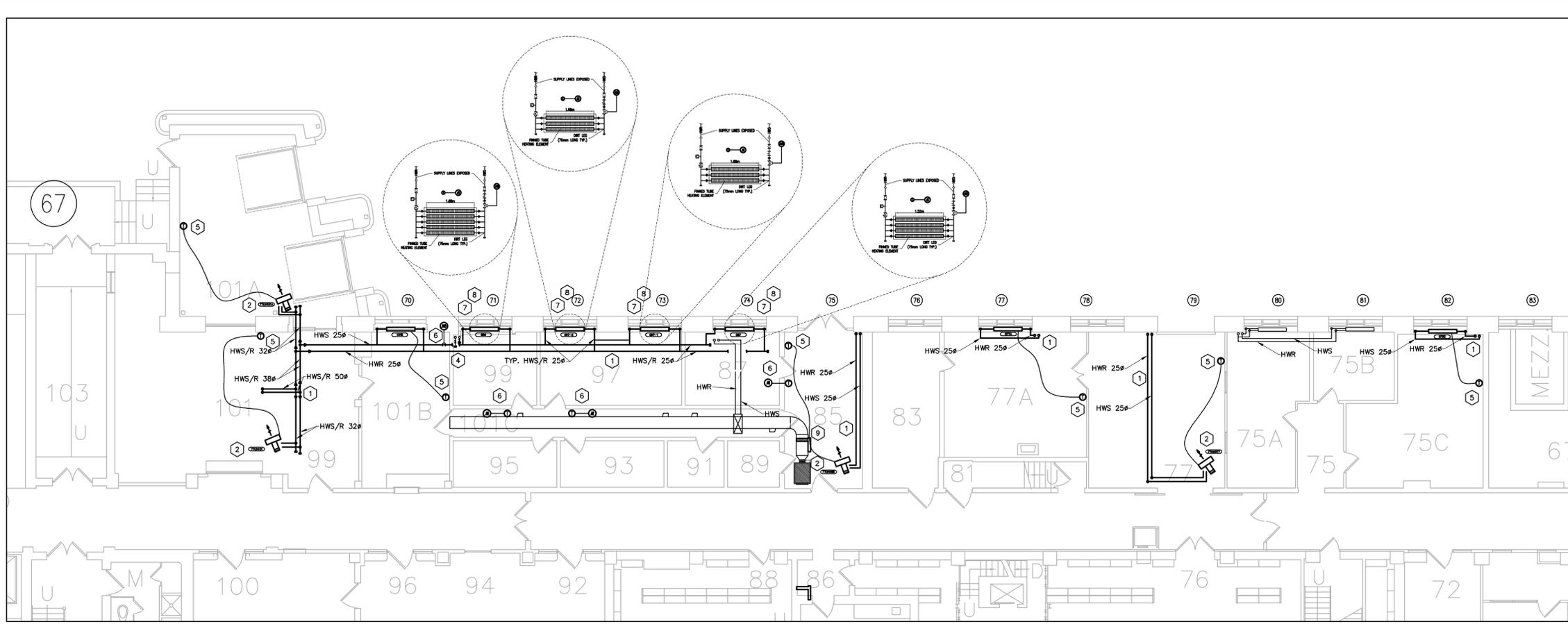


project: S77 STEAM TO HOT WATER CONVERSION RM. 75C, 77, 77A, 85, 87, 99, 101, 101A, 101B

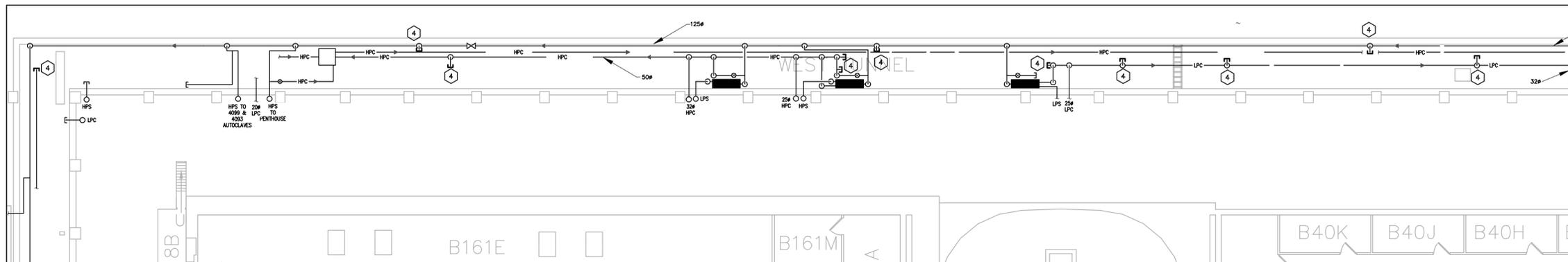
SUSSEX CAMPUS
 MECHANICAL: BASEMENT AND SUB-BASEMENT FLOORS - PIPING NEW LAYOUT

designed	conçu	date	date
ZF/JWG		JULY 2022	
drawn	dessiné	scale	échelle
ZF/SQ		AS NOTED	
checked	vérifié	sheet	feuille
RQC		5 of/de 5	
approved	approuvé	W.O.no.	D.T.no.
ALS		910002748	
dwg.no.	dessin no.		

6032-M05



1 BASEMENT FLOOR HEATING PIPING - NEW LAYOUT
 M05 SCALE = 1:100



2 SUB-BASEMENT FLOOR HEATING PIPING - NEW LAYOUT
 M05 SCALE = 1:125

NEW WORK NOTES: (X)

- PROVIDE NEW SUPPLY AND RETURN PIPING CONNECTIONS AS INDICATED ON DRAWING. REFER TO THE SPECIFICATIONS FOR PIPING AND INSULATION REQUIREMENTS. EXTEND EXISTING RISERS DOWN TO THE BASEMENT LEVEL AS INDICATED ON DRAWING. REFER TO DETAILS ON DRAWING 6032-M01 FOR PIPING PENETRATION DETAILS.
- PROVIDE NEW UNIT HEATER AS PER DRAWINGS ALONG WITH SUPPORTS. REFER TO EQUIPMENT SCHEDULE ON DRAWING 6032-M01 AND SPECIFICATIONS FOR ADDITIONAL DETAILS. REFER TO DETAIL 1 ON DRAWING 6032-M01 FOR PIPING CONNECTIONS AND ACCESSORIES.
- PROVIDE NEW WALL FIN ENCLOSURE AND HEATING ELEMENTS AS INDICATED ON DRAWINGS. REFER TO EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL DETAILS. PHYSICAL DIMENSIONS OF NEW ENCLOSURES ARE LISTED ON THE SCHEDULE FOR COSTING PURPOSES ONLY. IT SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR TO MEASURE THE AVAILABLE SPACE FOR INTERFERENCES AND PIPING LAYOUT, AND CONFIRM THE SIZE AND SUITABILITY OF ALL WALL FIN ENCLOSURES PRIOR TO ORDERING AND INSTALLING. REFER TO DETAIL 2 ON DRAWING 6032-M01 FOR PIPING CONNECTIONS AND ACCESSORIES.
- EXISTING PIPING TO BE CAPPED AT THIS LOCATION.
- PROVIDE NEW WALL MOUNTED THERMOSTAT AS INDICATED ON DRAWING, ALONG WITH WIRING AND CONNECTIONS TO THE BAS SYSTEM. REFER TO DETAILS 1 AND 2 ON DRAWING 6032-M01 AND SPECIFICATIONS FOR ADDITIONAL DETAILS. ALL CONTROLS WORK IS TO BE PERFORMED BY ANSWORTH. CONTACT AARON DOBSON AT 613-247-7938. FINAL/EXACT LOCATION OF THERMOSTAT TO BE COORDINATED ON SITE. ALL NEW THERMOSTATS TO BE INSTALLED IN THE CHEMICAL STORAGE AREA (RM. 087, 097, 099) TO BE EXPLOSION PROOF.
- PROVIDE NEW CONTROL VALVE CONTROLLING WALL FIN IN THE CHEMICAL STORAGE AREA (RM. 087, 097, 099). CONTROL VALVE TO MODULATE AND MAINTAIN HIGHEST HEATING DEMAND FOR ALL ROOMS.

- PROVIDE NEW WALL MOUNTED THERMOSTAT C/W REMOTE PROBE INTO SPACE, MOUNTED OUTSIDE THE ROOM. THERMOSTAT MOUNTING HEIGHT SHALL BE A MINIMUM OF 1676MM (66IN) ABOVE FLOOR LEVEL TO AVOID POTENTIAL DAMAGE FROM MOVING CARTS. PROBE SHALL MEASURE TEMPERATURE AT 1220MM (48IN) ABOVE FLOOR LEVEL.
- PROVIDE HEATING ELEMENTS AS INDICATED ON DRAWINGS. REFER TO EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL DETAILS. PHYSICAL DIMENSIONS OF NEW HEATING ELEMENTS ARE LISTED ON THE SCHEDULE FOR COSTING PURPOSES ONLY. IT SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR TO MEASURE THE AVAILABLE SPACE FOR INTERFERENCES AND PIPING LAYOUT, AND CONFIRM THE SIZE AND SUITABILITY OF ALL HEATING ELEMENTS PRIOR TO ORDERING AND INSTALLING. REFER TO DETAIL 2 ON DRAWING 6032-M01 FOR PIPING CONNECTIONS AND ACCESSORIES.
- PROVIDE NEW 38MMx38MMx6MM (1.5IN X1.5IN X1/4IN) STEEL ANGLE FRAME AND PERFORATED STEEL COVER (COLD ROLLED STEEL, 0.06IN THICK, 3/16IN HOLES) FOR NEW FIN TUB ELEMENTS. SIZE IS DETERMINED AND MEASURED ON SITE. ALL MATERIAL TO BE FASTENED USING STAINLESS STEEL HARDWARE. ALL CONNECTIONS TO BUILDING STRUCTURE SHALL BE REVIEW AND APPROVED BY NRC REPRESENTATIVE.
- PROVIDE NEW 7.5kW ELECTRIC HEATING COIL C/W DUCT MOUNTED CONTROLLER AS PER SCHEDULE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. NEW RE-HEAT COIL SHALL ONLY OPERATE WHEN ROOM TEMPERATURES IN ROOMS 087, 097 AND 099 AVERAGE BELOW 15°C AS DETERMINED BY THE BAS. ONCE ROOM TEMPERATURE IS GREATER THAN 18°C ELECTRIC HEATING COIL SHALL SHUT DOWN. COORDINATE WITH CONTROLS CONTRACTOR FOR REQUIRED CONNECTION POINTS.

