

MATSQUI LIVING UNIT 5 UNDERSLAB SUPPLY VENTING

MECHANICAL DEMOLITION AND RENOVATION SCOPE PACKAGE



MECHANICAL LEGEND		MECHANICAL LEGEND	
	EX. DUCTWORK		PUMP
	DUCTWORK		PRESSURE REDUCING VALVE
	EX. FLEXIBLE DUCTWORK		PRESSURE GAUGE
	FLEXIBLE DUCTWORK		THERMOMETER
	SUPPLY DUCT RISER/SECTION		GLOBE VALVE
	RETURN/EXHAUST DUCT RISER/SECTION		ANGLE GLOBE VALVE
	OUTDOOR AIR DUCT RISER/SECTION		STRAINER
	DUCTWORK C/W 50mm THERMAL INSULATION		GATE VALVE
	DUCTWORK C/W 25mm ACOUSTIC INSULATION		PRESSURE SWITCH
	DUCTWORK C/W 50mm ACOUSTIC INSULATION		UNION
	FLEXIBLE DUCT CONNECTOR		CALIBRATED BALANCE VALVE
	ROUND DUCT RISER		CHECK VALVE
	ROUND DUCT DROP		BALANCING VALVE
	VOLUME DAMPER		PIPE CAP
	FIRE DAMPER IN VERTICAL SEPERATION		2-WAY CONTROL VALVE (2 POSITION)
	FIRE DAMPER IN HORIZONTAL SEPERATION		3-WAY CONTROL VALVE (2 POSITION)
	MOTORIZED DAMPER (2 POSITION - OPEN/CLOSE)		EX. HOT WATER SUPPLY
	MOTORIZED DAMPER (MODULATING)		EX. HOT WATER RETURN
	MANUAL WALL SWITCH		HOT WATER RETURN
	MOTION DETECTOR		EQUIPMENT TAG
	CARBON DIOXIDE SENSOR		POINT OF DISCONNECTION
	THERMOSTAT		POINT OF CONNECTION
	DIFFERENTIAL PRESSURE SENSOR		AIR DISTRIBUTION TAG
			PIPE RISER
			PIPE DROP

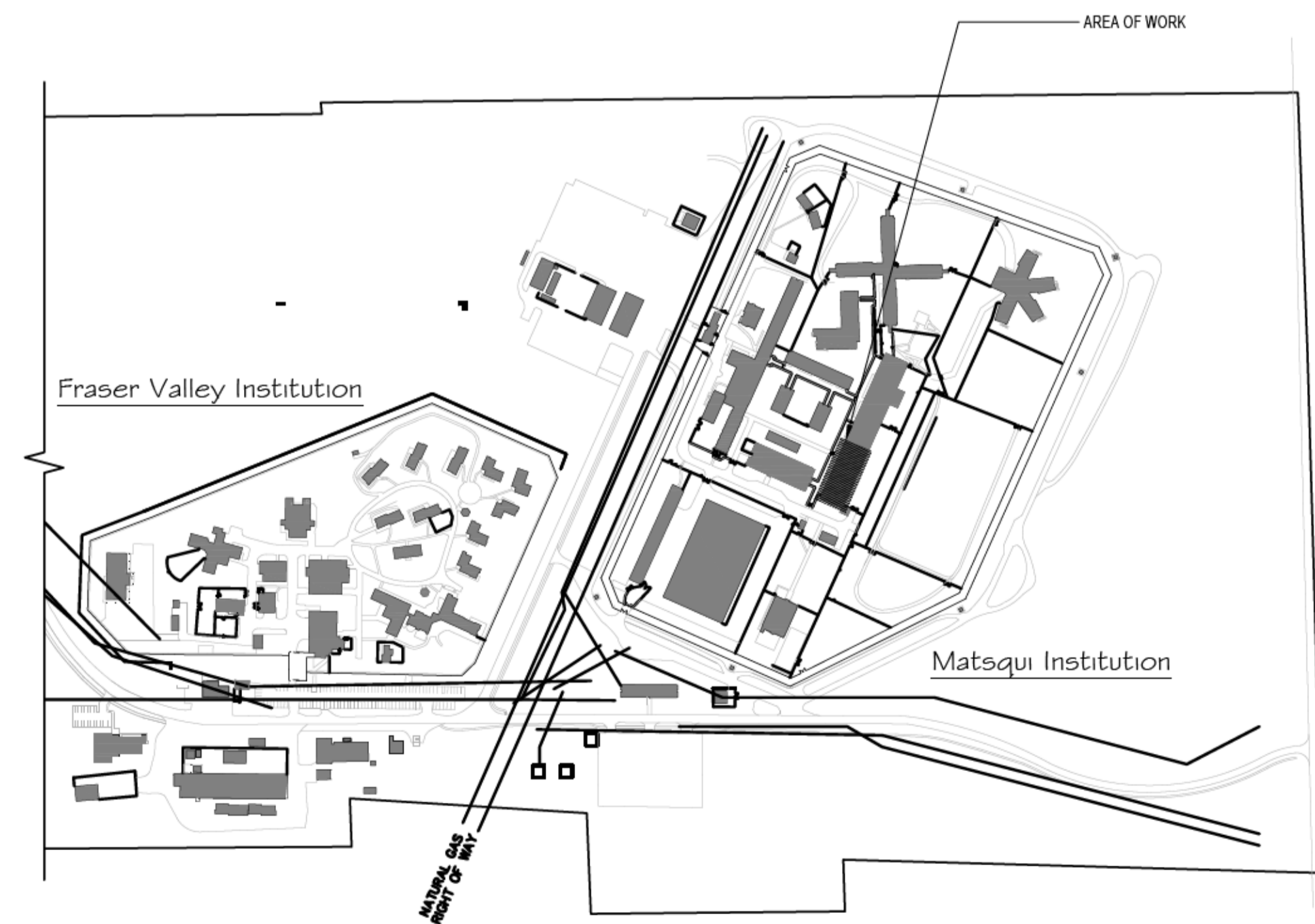
ABBREVIATIONS	
LIST OF GENERAL ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
C/W	COMPLETE WITH
RWL	RAIN WATER LEADER
F/A, T/A	FROM ABOVE, TO ABOVE
F/B, T/B	FROM BELOW, TO BELOW
NTS	NOT TO SCALE
O/A	OUTSIDE AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
S/A	SUPPLY AIR
T.O.D.	TOP OF DUCT
T.O.P.	TOP OF PIPE
U.O.D.	UNDERSIDE OF DUCT
U.O.P.	UNDERSIDE OF PIPE
U/S	UNDERSIDE
DN	DOWN
FRR	FIRE RESISTANCE RATING
U.N.O.	UNLESS OTHERWISE NOTED
CTE	CONNECT TO EXISTING

MECHANICAL DRAWING LIST	
M100	COVER PAGE
M101	MECHANICAL - FIRST AND SECOND FLOOR PLANS - DEMO
M102	MECHANICAL - PHOTOS
M201	MECHANICAL - FIRST AND SECOND FLOOR PLANS - RENO
M202	MECHANICAL - ROOF PLAN - RENO
M203	MECHANICAL - BASEMENT PLAN - DEMO & RENO
M204	MECHANICAL - SECTIONS
M205	MECHANICAL - SCHEMATIC
M206	PLUMBING - RAIN WATER LEADERS & SERVICE CHASES
M207	FIRE PROTECTION - FIRST FLOOR
M208	MECHANICAL - DETAILS
M209	MECHANICAL - DETAILS CONTINUED

STRUCTURAL DRAWING LIST	
S1	GENERAL NOTES
S2	FIRST FLOOR PLAN & DETAILS
S3	SECOND FLOOR PLAN & ROOF PLAN
S4	SECTIONS AND DETAILS

ELECTRICAL DRAWING LIST	
E100	SITE PLAN, LEGEND, DRAWING LIST AND DETAILS
E107	M2d 2ND LEVEL FLOOR PLAN - POWER/LIGHTING LAYOUT
E108	M2c MAIN LEVEL FLOOR PLAN - POWER/LIGHTING LAYOUT
E119	M2c & M2d - PANEL 'EH' SCHEDULES/SINGLE LINE DIAGRAM
E120	M2c/M2d ROOF PLAN - POWER/LIGHTING LAYOUT

ARCHITECTURAL DRAWING LIST	
G000	TITLE SHEET & OVERALL SITE PLAN
G101	ABBREVIATIONS, SYMBOL LEGEND, AND GENERAL NOTES
A101	SECOND FLOOR PLAN AND ROOF
A102	BASEMENT (MECH. ROOM) AND GROUND FLOOR PLAN
A501	DETAILS
A502	DETAILS
A503	DETAILS
A801	EXISTING CONDITION PHOTOGRAPHS
A802	EXISTING CONDITION PHOTOGRAPHS



SITE PLAN
1:4000

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0	50% OF 66% SUBMISSION	2020.03.31

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**ABBOTSFORD, BRITISH COLUMBIA
33344 KING ROAD
MATSQUI INSTITUTION BUILDING LU5
MATSQUI LIVING UNIT 5
UNDERSLAB SUPPLY VENTING**

Consultant Signature Only

Designed by/Concept par
Ivan Nikolic

Drawn by/Dessiné par
Dean Whaley

PWGSC Project Manager/Administrateur de Projets TPSGC
Ken Wendt

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
Frederick Paul

Drawing title/Titre du dessin

COVER PAGE

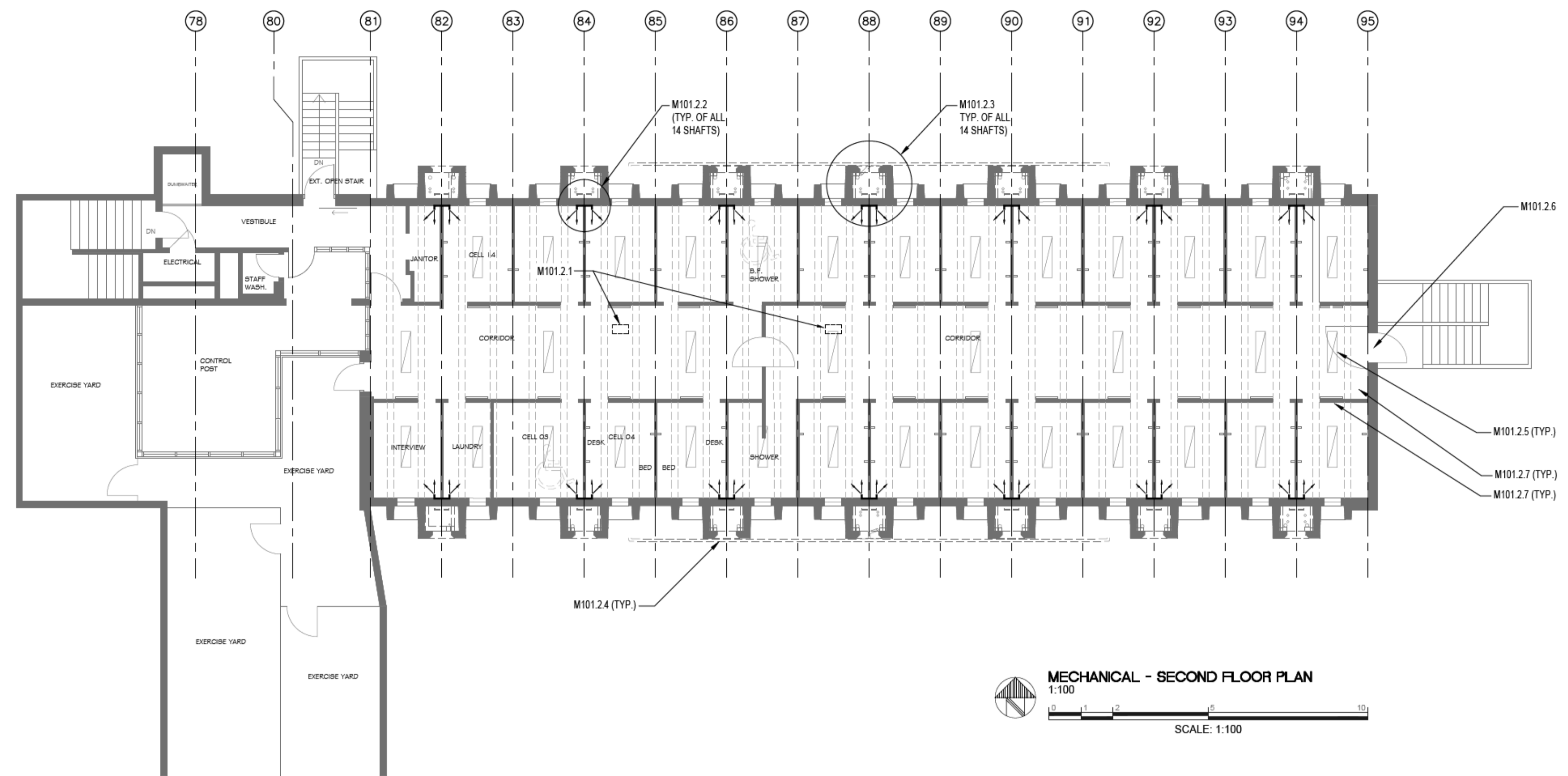
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R.111315.001	M100	5





DRAWING M-101 DEMO NOTES:

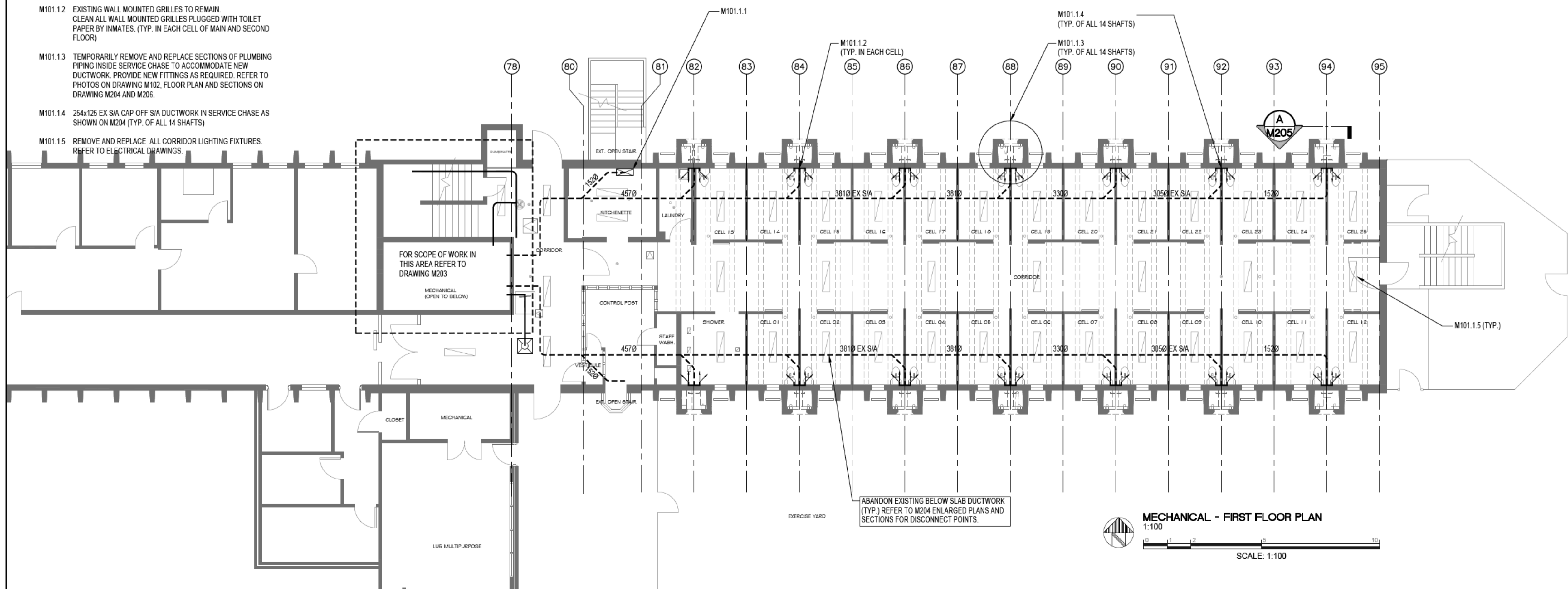
- M101.2.1 PROVIDE STRUCTURAL OPENINGS IN ROOF SLAB. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- M101.2.2 EXISTING WALL MOUNTED GRILLES TO REMAIN. CLEAN ALL WALL MOUNTED GRILLES PLUGGED WITH TOILET PAPER BY INMATES. (TYP.)
- M101.2.3 REMOVE AND REPLACE SECTIONS OF PLUMBING PIPING INSIDE SERVICE CHASE TO ACCOMMODATE NEW DUCTWORK. REFER TO PHOTOS ON DRAWING M102, FLOOR PLAN AND SECTIONS ON DRAWING M204 AND M206.
- M101.2.4 REMOVE EXISTING AND PROVIDE NEW RAINWATER LEADER SECTIONS RUNNING HORIZONTALLY ON SOUTH AND NORTH SIDE. OFFSET HORIZONTAL PIPING AROUND NEW VERTICAL DUCTS ALONG SERVICE CHASE SURFACE. REFER TO DRAWING M206 AND PHOTOS ON SAME DRAWING.
- M101.2.5 REMOVE AND REPLACE ALL CORRIDOR LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS.
- M101.2.6 PROVIDE STRUCTURAL OPENINGS IN EXTERIOR WALL FOR DUCTING.
- M101.2.7 PROVIDE STRUCTURAL OPENING IN CORRIDOR SLAB AND WALLS FOR HYDRONIC HEATING PIPING. REFER TO RENOVATION DRAWINGS FOR PIPING LAYOUT.



MECHANICAL - SECOND FLOOR PLAN
1:100
SCALE: 1:100

DRAWING M-101 DEMO NOTES CONT'S:

- M101.1.1 SEE PHOTO #19 LUIS - KITCHEN FLOOR GRILLE ON DRAWING M102. CAP-OFF FLOOR SUPPLY REGISTER AND PATCH FLOOR. MAKE GOOD FLOOR SURFACE. REFER TO ARCHITECTURAL DRAWINGS.
- M101.1.2 EXISTING WALL MOUNTED GRILLES TO REMAIN. CLEAN ALL WALL MOUNTED GRILLES PLUGGED WITH TOILET PAPER BY INMATES. (TYP. IN EACH CELL OF MAIN AND SECOND FLOOR)
- M101.1.3 TEMPORARILY REMOVE AND REPLACE SECTIONS OF PLUMBING PIPING INSIDE SERVICE CHASE TO ACCOMMODATE NEW DUCTWORK. PROVIDE NEW FITTINGS AS REQUIRED. REFER TO PHOTOS ON DRAWING M102, FLOOR PLAN AND SECTIONS ON DRAWING M204 AND M206.
- M101.1.4 254x125 EX S/A CAP OFF S/A DUCTWORK IN SERVICE CHASE AS SHOWN ON M204 (TYP. OF ALL 14 SHAFTS)
- M101.1.5 REMOVE AND REPLACE ALL CORRIDOR LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS.



MECHANICAL - FIRST FLOOR PLAN
1:100
SCALE: 1:100

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Project title/Titre du projet
**ABBOTSFORD, BRITISH COLUMBIA
33344 KING ROAD
MATSQUI INSTITUTION BUILDING LU5
MATSQUI LIVING UNIT 5
UNDERSLAB SUPPLY VENTING**

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Designed by/Concept par
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Regional Manager, Architectural and Engineering Services
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Drawing title/Titre du dessin
MECHANICAL - FIRST AND SECOND FLOOR PLANS - DEMO

Project No./No. du projet R.111315.001	Sheet/Feuille M101	Revision no./La Révision no. 5
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#1 - LU5 - NORTH VIEW



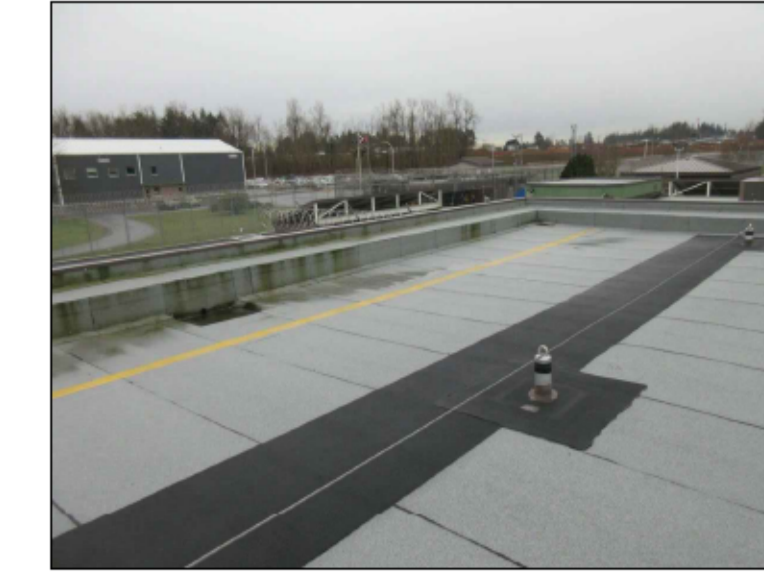
#2 - LU5 - SOUTH VIEW



#3 - LU5 - ROOF 1



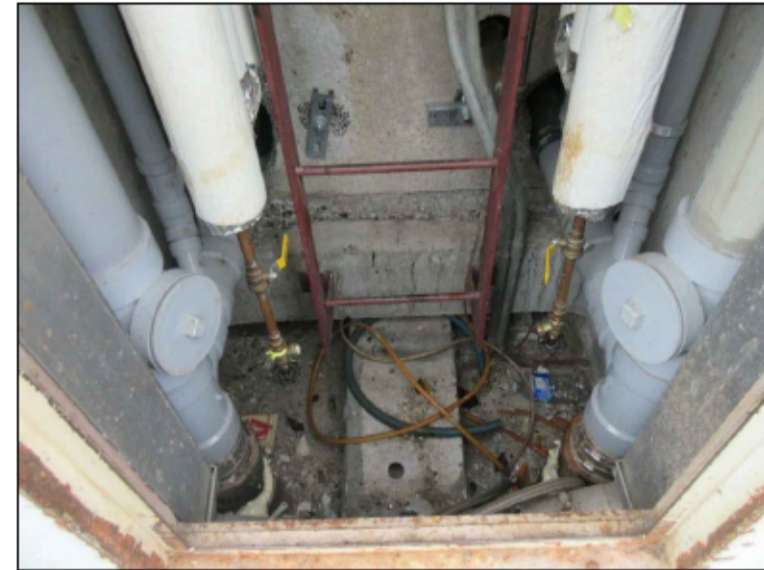
#4 - LU5 - ROOF 2



#5 - LU5 - ROOF 3



#6 LU5 - ROOF DRAIN



#7 - LU5 - SERVICE CHASE 1



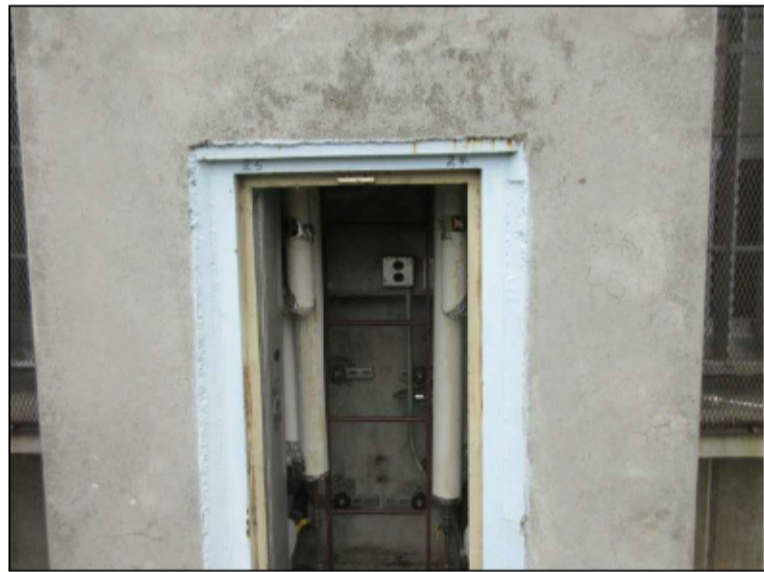
#8 - LU5 - SERVICE CHASE 2



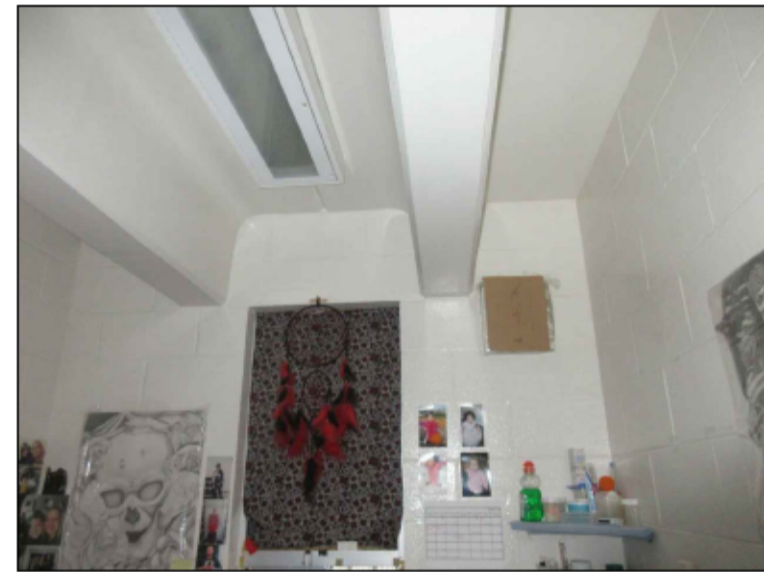
#9 - LU5 - SERVICE CHASE 3



#10 - LU5 - SERVICE CHASE 4



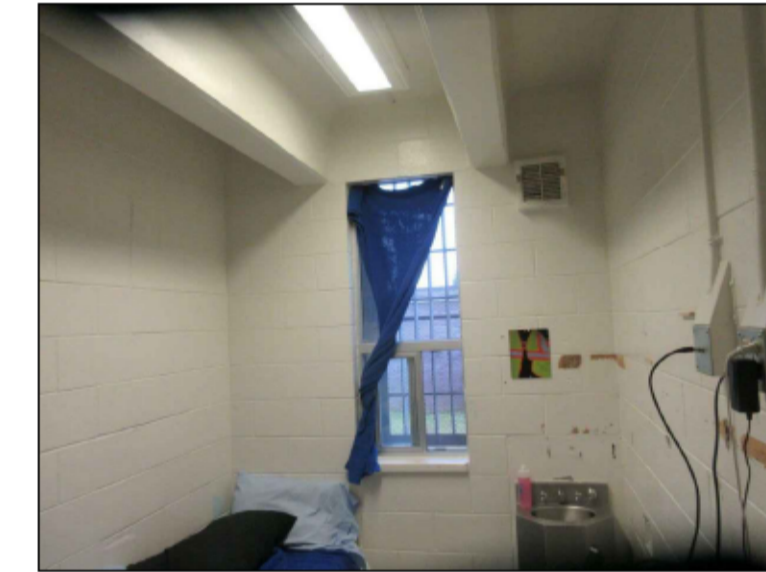
#11 - LU5 - SERVICE CHASE 5



#12 - LU5 - TYPICAL CELL FIRST FLOOR



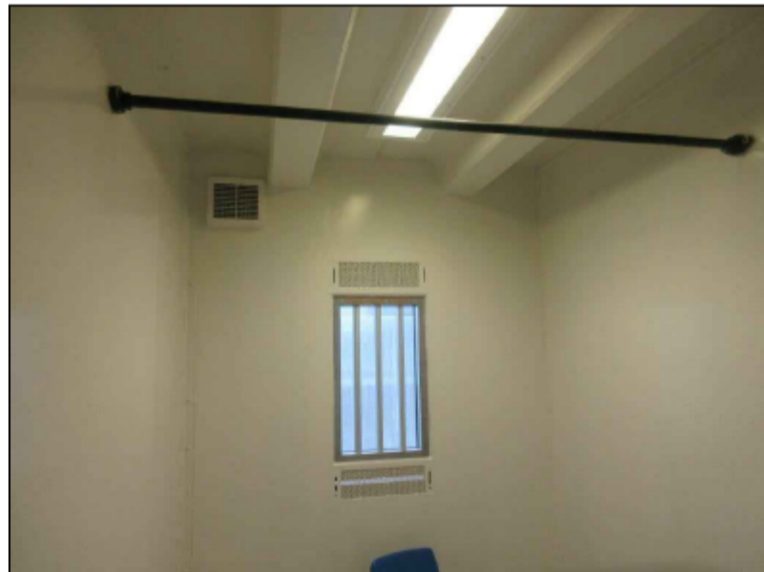
#13 - LU5 - TYPICAL CELL FIRST FLOOR 2



#14 - LU5 - TYPICAL CELL SECOND FLOOR



#15 - LU5 - CORRIDOR FIRST FLOOR



#16 - LU5 - TYPICAL CELL SECOND FLOOR 2



#17 - LU5 - BASEMENT AHU



#18 - LU5 - BASEMENT EXHAUST FAN



#19 - LU5 - KITCHEN FLOOR GRILLE



#20 - LU5 - KITCHEN WALL OUTSIDE



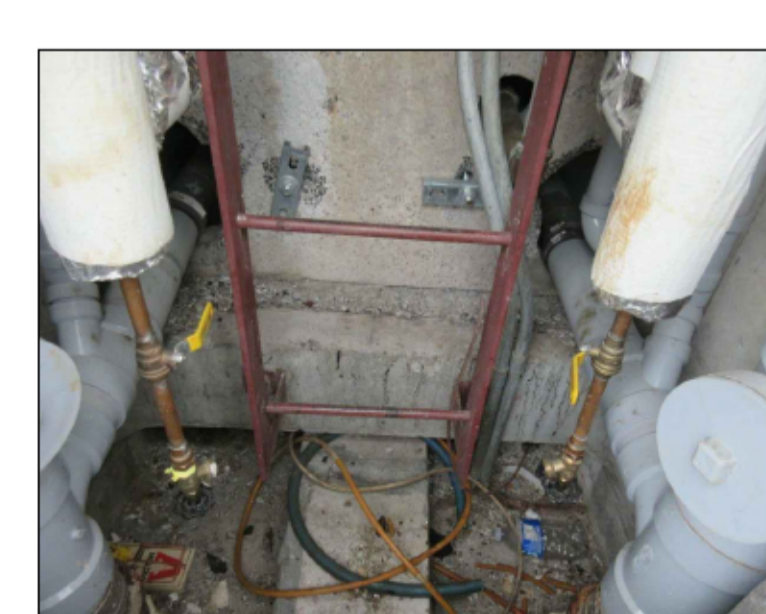
#21 - LU5 - KITCHEN WALL INSIDE - EXHAUST FAN LOCATION



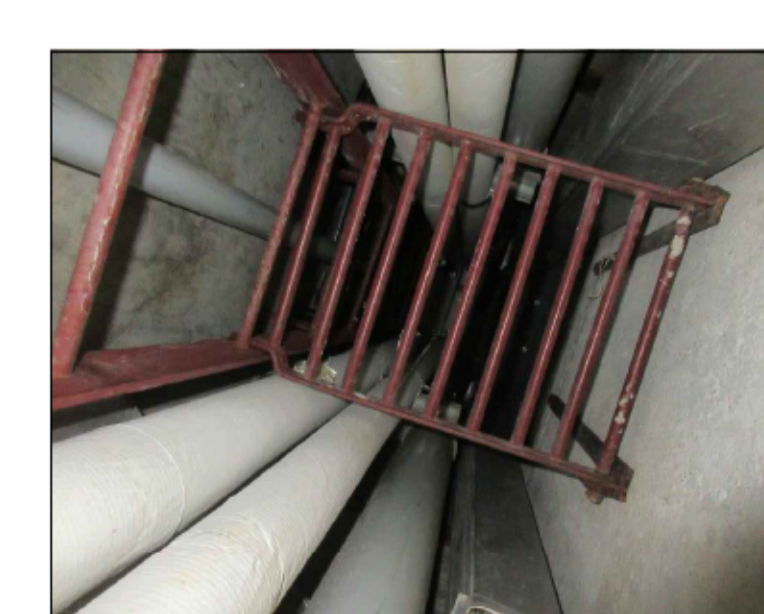
#22 - LU5 - EXAMPLE OF EXHAUST FAN ENCLOSURE



#23 - LU5 - EXISTING AC AND EF



#24 - LU5 - SERVICE CHASE GROUND LEVEL



#25 - LU5 - SERVICE CHASE PLATFORM



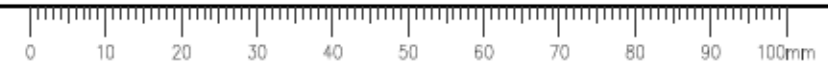
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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet: ABBOTSFORD, BRITISH COLUMBIA 33344 KING ROAD MATSQUI INSTITUTION BUILDING LU5 MATSQUI LIVING UNIT 5 UNDERSLAB SUPPLY VENTING

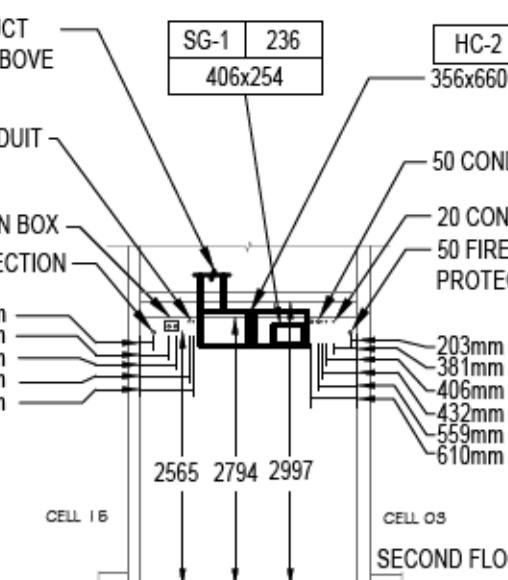
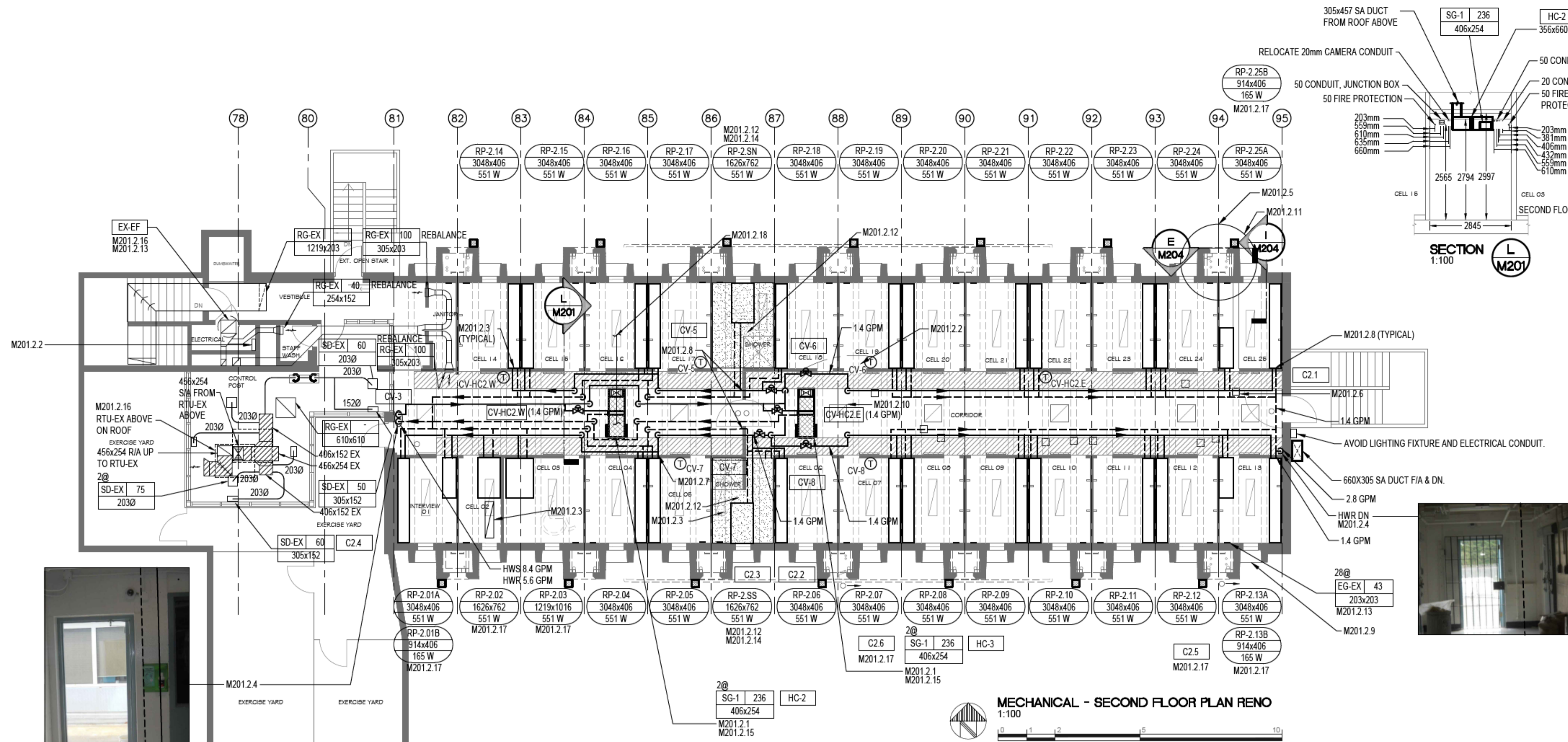
Consultant Signature Only: Designed by/Concept par Ivan Nikolic, Drawn by/Dessiné par Dean Whaley, PWGSC Project Manager/Administrateur de Projets TPSGC Ken Wendt, Regional Manager, Architectural and Engineering Services/Gestionnaire régionale, Services d'architectural et de génie, TPSGC Freeipal Paul, Drawing title/Titre du dessin: PHOTOS

Project No./No. du projet: R.111315.001	Sheet/Feuille: M102	Revision no./La Révision no.: 5
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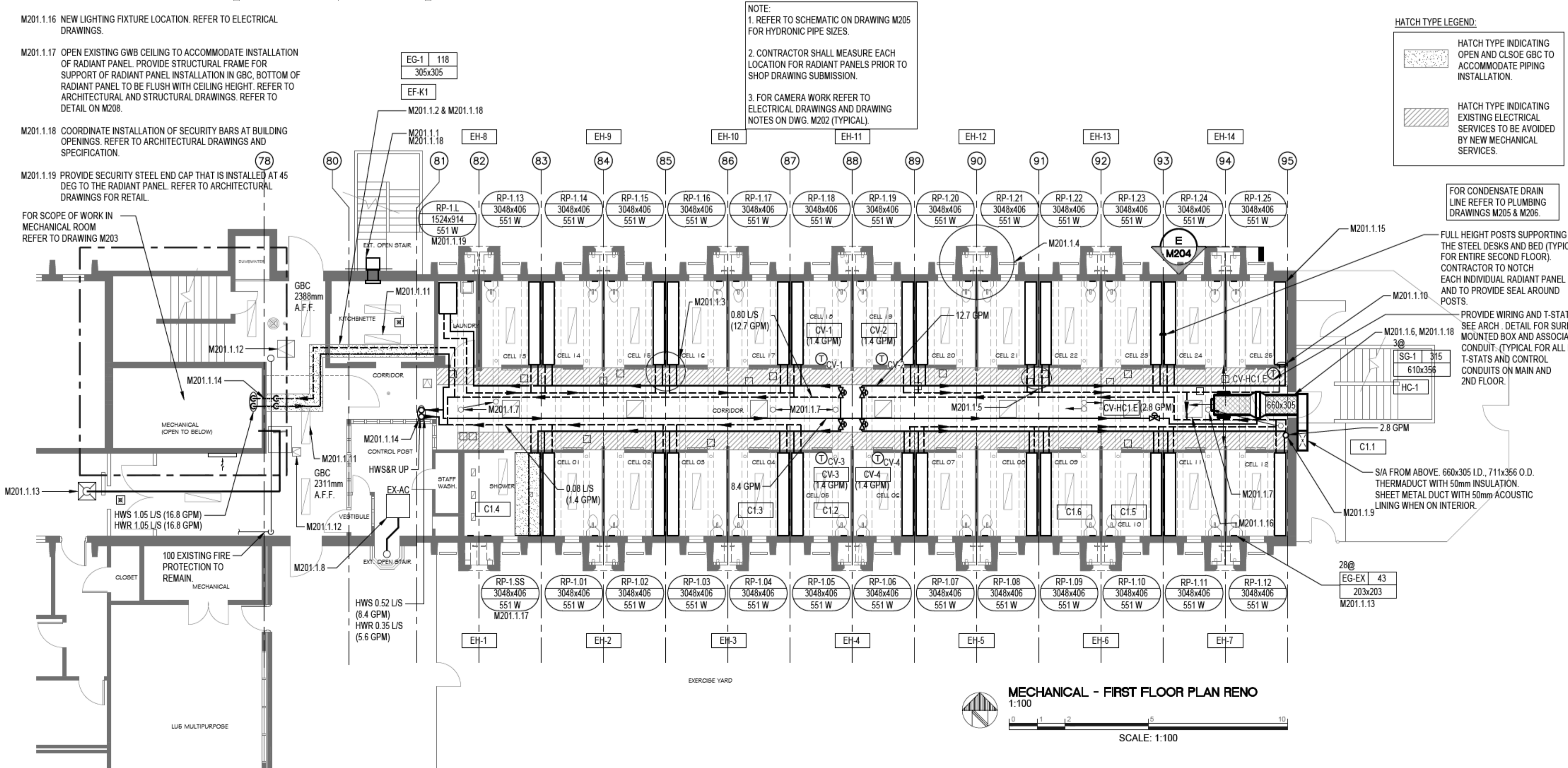
DRAWING M-201.2 RENO NOTES:

- M201.2.1 457x305 (I.D.) DUCT SIA DUCT FROM ABOVE CORE ROOF SLAB. CONNECT TO 660x356 SIA DUCT CW HEATING COIL. HORIZONTAL SECTION IS SHEET METAL DUCT WITH ACOUSTIC LINER (EXPOSED). HEATING COIL TO MATCH DUCT SIZE.
- M201.2.2 NEW DDC CONTROL WIRING (TYPICAL) AND DDC PANELS. NOT ALL CONTROL WIRING SHOWN ON PLAN.
- M201.2.3 NEW LOCATION FOR EXISTING LIGHTING FIXTURE. REFER TO ELECTRICAL DRAWINGS.
- M201.2.4 HWS&R RISERS, PROVIDE NEW ARCHITECTURAL FURRING. REFER TO ARCHITECTURAL DRAWINGS.
- M201.2.5 REFER TO DRAWING M204 FOR ENLARGED FLOOR PLAN AND SECTIONS
- M201.2.6 ELECTRICAL JUNCTION BOX (TYP.)
- M201.2.7 RELOCATE EMERGENCY LIGHT. REFER TO ELECTRICAL DRAWINGS.
- M201.2.8 PIPING THROUGH WALL, MAKE GOOD (TYPICAL).
- M201.2.9 EXISTING BARBED WIRE TO BE REMOVED AND REINSTALLED TO ACCOMMODATE NEW EXPOSED DUCTWORK INSTALLATION. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS. TYPICAL FOR SOUTH SIDE EXPOSURE.
- M201.2.10 NEW LIGHTING FIXTURE LOCATION. REFER TO ELECTRICAL DRAWINGS.
- M201.2.11 FOR PLUMBING SCOPE OF WORK REFER TO DRAWING M206. TYPICAL FOR EACH SERVICE CHASE. APPLICABLE TO EVERY CHASE ON FIRST AND SECOND FLOOR.
- M201.2.12 OPEN EXISTING GWB CEILING TO ACCOMMODATE INSTALLATION OF RADIANT PANEL. REFER TO ARCHITECTURAL DRAWINGS. RELOCATE LIGHTING FIXTURE, REFER TO ELECTRICAL DRAWINGS.
- M201.2.13 EXISTING EXHAUST GRILLE AND DUCTWORK TO REMAIN (TYPICAL). CLEAN EXISTING GRILLES. REBALANCE NEW SYSTEM.
- M201.2.14 PROVIDE STRUCTURAL FRAME FOR SUPPORT OF RADIANT PANEL INSTALLATION IN GBC, BOTTOM OF RADIANT PANEL TO BE FLUSH WITH CEILING HEIGHT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS. REFER TO DETAIL ON M208.
- M201.2.15 COORDINATE INSTALLATION OF SECURITY BARS AT BUILDING OPENINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATION.
- M201.2.16 REBALANCE EXISTING RTU-EX AND EF-EX SYSTEMS. EXISTING RECORD DRAWINGS WILL BE AVAILABLE TO SUCCESSFUL BIDDER.
- M201.2.17 PROVIDE SECURITY STEEL END CAP THAT IS INSTALLED AT 45 DEG TO THE RADIANT PANEL. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.
- M201.2.18 RELOCATE EXISTING CONDUIT SERVING LIGHTING FIXTURE TO ACCOMMODATE MECHANICAL WORK.

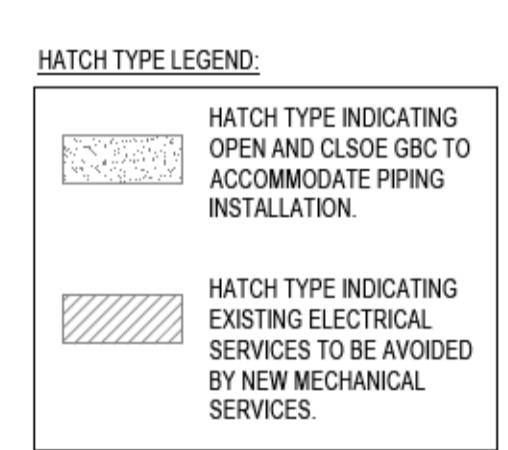


DRAWING M-201.1 RENO NOTES CONTS:

- M201.1.1 118 Ls, 10 ACH, WALL MOUNTED EXHAUST FAN. 305x305 WALL OPENING. GRAVITY B.D.D. IN DUCT SLEEVE. PROVIDE SECURE GRILLE ON INSIDE FACE OF WALL. FAN TO OPERATE WHENEVER HRV-1 & HRV-2 IS OPERATING. PROVIDE POWER (120V, 1PH) AND CONTROL. RELOCATE ELECTRICAL CONDUIT. SEE PHOTOS #21 LUS - KITCHEN WALL INSIDE AND #20 LUS - KITCHEN WALL OUTSIDE ON DRAWING M102 FOR REFERENCE ONLY. PROVIDE ENCLOSURE AROUND FAN. REFER TO PHOTO #22 ON M102 FOR SIMILAR FAN ENCLOSURE ON SOUTH SIDE. REFER TO ARCHITECTURAL DRAWINGS.
- M201.1.2 OPEN EXISTING GWB CEILING TO ACCOMMODATE INSTALLATION OF NEW HYDRONIC PIPING. REFER TO ARCHITECTURAL DRAWINGS.
- M201.1.3 REFER TO SCHEMATIC ON M205 FOR RADIANT PANEL PIPING CONNECTIONS (TYP.) CORE CORRIDOR WALL FOR RADIANT PANEL PIPING (TYP. FOR ALL CELLS). REFER TO ARCH. AND STRUCT. DWGS.
- M201.1.4 REFER TO DRAWING M204 FOR ENLARGED FLOOR PLAN AND SECTIONS FOR HVAC SCOPE OF WORK. REFER TO DRAWING M206 FOR PLUMBING SCOPE OF WORK.
- M201.1.5 AVOID ELECTRICAL CONDUITS AND JUNCTION BOXES. RELOCATE EXISTING JUNCTION BOXES AND CONDUITS ONLY AS REQUIRED. REFER TO ELECTRICAL DRAWINGS TYP.
- M201.1.6 914x406 WALL OPENING. 914x406 HEATING COIL. OFFSET DUCT BELOW STRUCTURAL FLUTE. RE&R 50mm FIRE PROTECTION PIPE, AND ELECTRICAL CONDUIT ON INTERIOR SIDE. REFER TO STRUCTURAL AND ARCHITECTURAL DETAIL FOR WALL PENETRATION. PROVIDE STRUCTURAL REINFORCEMENT AS REQUIRED. RELOCATE LIGHTING FIXTURE TO TWO BAYS WEST AS SHOWN.
- M201.1.7 EXISTING CAMERAS. REFER TO ELECTRICAL DRAWINGS AND DRAWING NOTES ON DWG. M202 RELATED TO CAMERA WORK (TYPICAL).
- M201.1.8 EXISTING AC UNIT WITH 100 O/A DUCT TO REMAIN IN SERVICE.
- M201.1.9 CORE SUSPENDED SLAB TO INSTALL HWR LINE. 25 HW LINE EXPOSED PARALLEL TO EXISTING FIRE PROTECTION TEST/DRAIN LINE.
- M201.1.10 CORE EXISTING C.U.M. BLOCK TO ACCOMMODATE PIPING INSTALLATION SERVING RADIANT PANEL. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWING DETAILS. TYPICAL FOR ALL RADIANT PANELS IN EACH CELL.
- M201.1.11 REMOVE AND REINSTALL EXISTING LIGHTING FIXTURE TO ACCOMMODATE PIPING INSTALLATION. REFER TO ELECTRICAL AND ARCHITECTURAL DRAWINGS.
- M201.1.12 EXISTING ACCESS PANEL IN GWB CEILING TO REMAIN.
- M201.1.13 EXISTING GRILLE AND DUCTWORK TO REMAIN (TYPICAL). CLEAN EXISTING GRILLES. REBALANCE NEW SYSTEM.
- M201.1.14 CORE STRUCTURAL WALL/STRUCTURAL SUSPENDED SLAB TO ACCOMMODATE PIPE INSTALLATION.
- M201.1.15 RADIANT PANEL AS PER DETAIL ON M208 (TYPICAL FOR RADIANT PANELS IN CELLS). REFER TO STRUCTURAL DRAWINGS FOR SUPPORT DETAIL. FOR RADIANT PANELS IN GBC SEE NOTE M201.1.7.



NOTE:
 1. REFER TO SCHEMATIC ON DRAWING M205 FOR HYDRONIC PIPE SIZES.
 2. CONTRACTOR SHALL MEASURE EACH LOCATION FOR RADIANT PANELS PRIOR TO SHOP DRAWING SUBMISSION.
 3. FOR CAMERA WORK REFER TO ELECTRICAL DRAWINGS AND DRAWING NOTES ON DWG. M202 (TYPICAL).



Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
 Pacific Region
SERVICES IMMOBILIERS
 Région de Pacifique

INTEGRAL GROUP
 INTEGRAL GROUP PROJECT NUMBER: 151976.001

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Client/client: **CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet
ABBOTSFORD, BRITISH COLUMBIA
33344 KING ROAD
MATSQUI INSTITUTION BUILDING LUS
MATSQUI LIVING UNIT 5
UNDERSLAB SUPPLY VENTING

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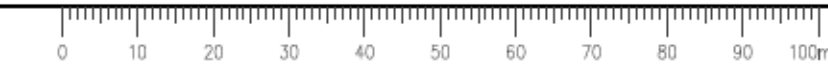
PWSC Project Manager/Administrateur de Projets TPSGC
 Ken Wendt

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 Gestionnaire régionale, Services d'architecture et de génie, TPSGC
 Frédéric Paul

Drawing title/Titre du dessin

MECHANICAL - FIRST AND SECOND FLOOR PLANS - RENO

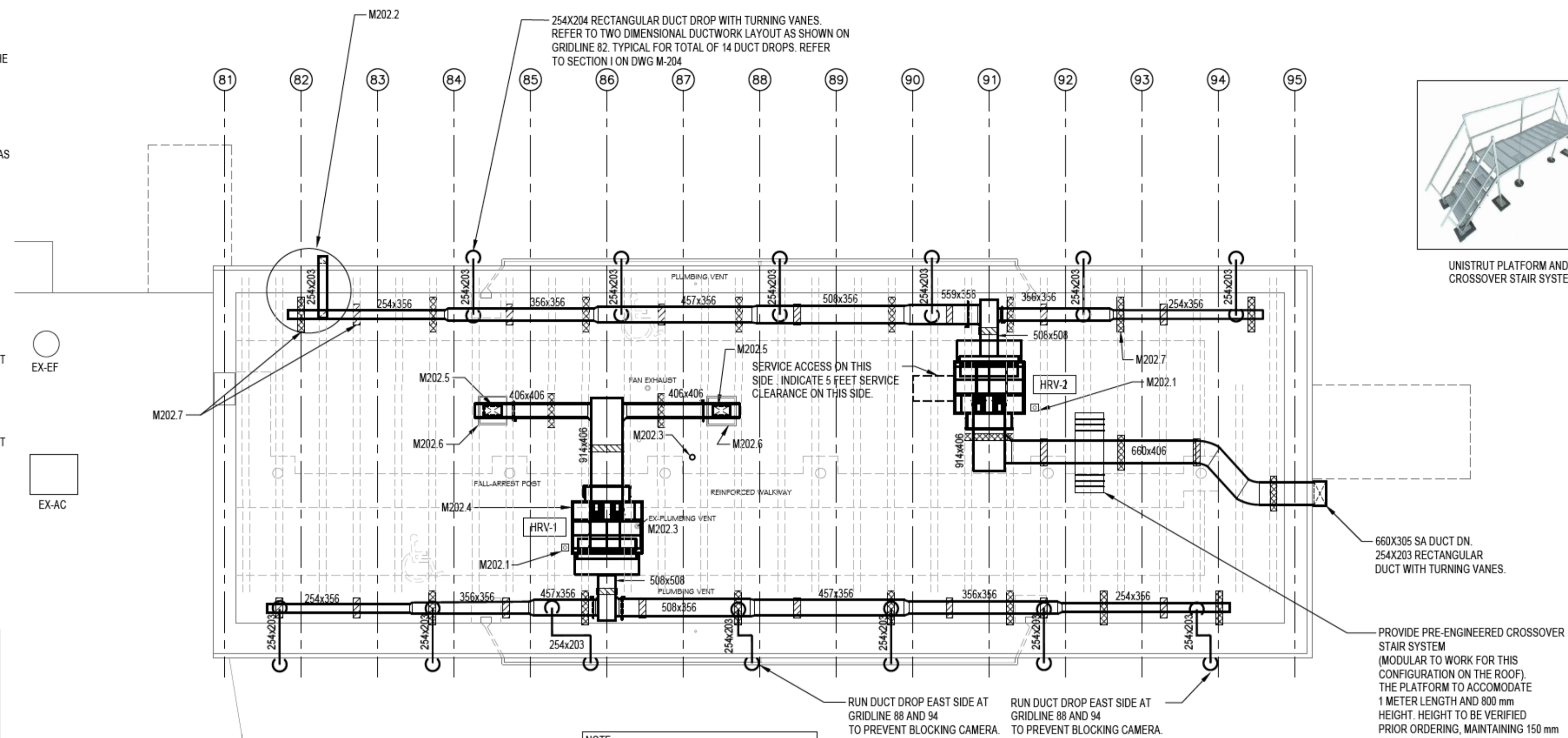
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.111315.001	M201	5



DRAWING M-202 RENO NOTES:

- M202.1 CONDUIT PENETRATION FOR POWER AND CONTROLS. PROVIDE POWER FOR HRV-1 & HRV-2 AS WELL AS SERVICE RECEPTACLE. REFER TO ELECTRICAL DRAWINGS.
 - M202.2 REFER TO DRAWING M204 FOR ENLARGED FLOOR PLAN AND SECTIONS. TYP. OF 14 BRANCHES. THERMADUCT DOWN (TYPICAL).
 - M202.3 RELOCATE PLUMBING VENT AS SHOWN. REFER TO M206 FOR PLUMBING VENT ROUTING ON SECOND FLOOR.
 - M202.4 UNIT TO SIT ON CURB. REFER TO STRUCTURAL AND ARCHITECTURAL DWGS.
 - M202.5 457x305 I.D. THERMADUCT SA DOWN CW INSULATION (ONLY ON DROPS THROUGH CURB). ROOF OPENING 508x356.
 - M202.6 762x762 OD ROOF CURB.
 - M202.7 PROVIDE DUCT SLEEPERS AS SPECIFIED (TYP).
- CAMERA WORK:**
1. REFER TO ELECTRICAL DRAWINGS FOR DETAIL CAMERA WORK.
 2. THERE ARE TOTAL OF TEN (10) EXISTING CAMERAS IN AREA OF WORK.
 3. FOR REMAINING CAMERAS, ALL EFFORTS SHALL BE MADE TO KEEP NEW PIPING AND DUCTWORK AWAY FROM LINE OF SIGHTS
 4. REFER TO ELECTRICAL DRAWING FOR SCOPE OF WORK RELATED TO CAMERA WORK.
 5. GENERAL CONTRACTOR IS RESPONSIBLE FOR CAMERA RELOCATION / NEW CAMERAS AND COORDINATION WITH CAMERA CONTRACTOR. ALL CAMERA WORK TO BE PERFORMED BY SPECIALTY CERTIFIED CONTRACTOR AFTER MECHANICAL WORK IS COMPLETED. GENERAL CONTRACTOR AND CAMERA CONTRACTOR TO ALLOW FOR MIN. TWO (2) SITE VISITS DURING PLANNING LAYOUT FOR DUCTWORK AND PIPING. CAMERA CONTRACTOR WILL BE INVOLVED IN SAFETY MEETINGS ORGANIZED BY GENERAL CONTRACTOR.
 6. GENERAL CONTRACTOR SHALL INCLUDE IN HIS COST WORK RELATED TO COORDINATION AND SITE ACCESS (INCLUDING SECURITY CHECK) WITH CAMERA CONTRACTOR.
 7. PROTECT ALL EXISTING CAMERAS FROM DUST AND VIBRATION DURING CONSTRUCTION.
 8. REMOVE 20MM ELECTRICAL CONDUITS AND CAMERA CABLES TO MORE ACCESSIBLE LOCATION TO ALLOW MORE CLEARANCE FOR MECHANICAL EQUIPMENT, PIPING AND DUCTWORK ON FIRST AND SECOND FLOOR. PROVIDE NEW CONDUITS AT OTHER LOCATIONS AND CABLES WITH CONNECTION TO ALL CAMERAS. THIS IS TYPICAL FOR CONDUITS ON FIRST AND SECOND FLOOR BETWEEN GL 80 AND 95.
 9. UPON COMPLETION OF PROJECT, CAMERA CONTRACTOR SHALL PERFORM COMMISSIONING AND TESTING OF THE SYSTEM.

- CAMERA C1.1:**
RELOCATE EXISTING CAMERA TO NEW LOCATION WEST FROM GL 94. PROVIDE NEW CONDUITS AND CABLES.
- C1.5 & C1.6:**
ADD TWO NEW CAMERAS C1.5 AND C1.6 BETWEEN GL 91 AND 92. PROVIDE NEW CONDUITS AND CABLES CONNECTING TO THE EXISTING SYSTEM.
- CAMERA C1.2 & C1.3:**
EXISTING CAMERAS TO REMAIN.
- CAMERA C1.4:**
EXISTING CAMERA TO BE RELOCATED ONE BAY TO THE EAST AS REQUIRED. PROVIDE NEW CONDUITS AND CABLES.
- CAMERA C2.1:**
EXISTING CAMERA TO REMAIN.
- CAMERA C2.2 & C2.3:**
EXISTING CAMERAS TO REMAIN.
- CAMERA C2.4:**
EXISTING CAMERA TO BE RELOCATED ABOVE THE DOOR. REMOVE JUNCTION BOX AND EXTEND CONDUITS TO ACCOMMODATE NEW MECHANICAL PIPING.
- CAMERA C2.5:**
EXISTING EXTERIOR CAMERA TO BE RELOCATED TO THE RIGHT ON THE EXTERIOR SERVICE CHASE C/W SUPPORT BRACKET. REMOVE JUNCTION BOX AND EXTEND CONDUITS TO ACCOMMODATE NEW DUCTWORK.
- CAMERA C2.6:**
EXISTING EXTERIOR CAMERA TO BE RELOCATED TO THE RIGHT ON THE EXTERIOR SERVICE CHASE C/W SUPPORT BRACKET. REMOVE JUNCTION BOX AND EXTEND CONDUITS TO ACCOMMODATE NEW DUCTWORK.



NOTE:

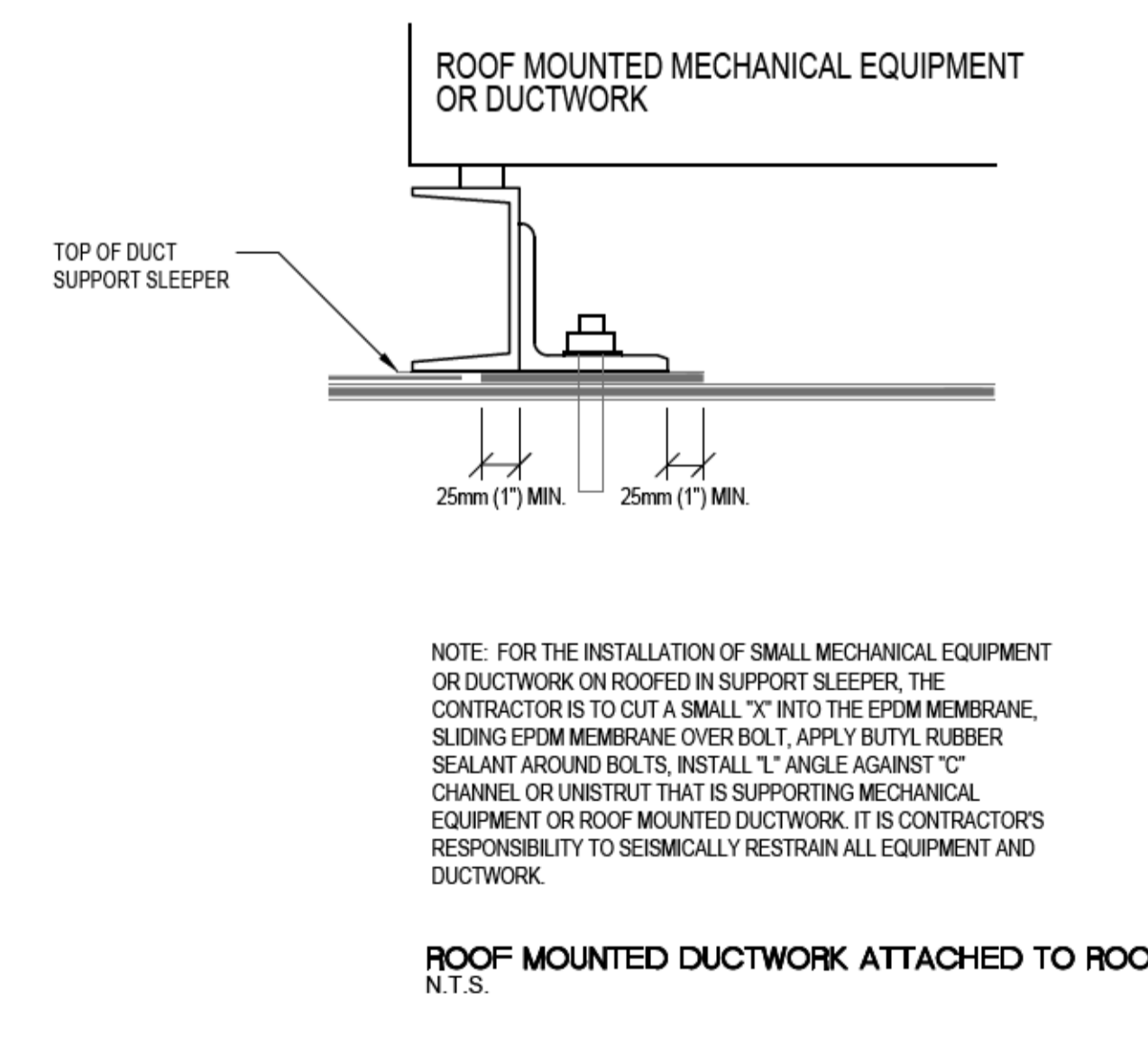
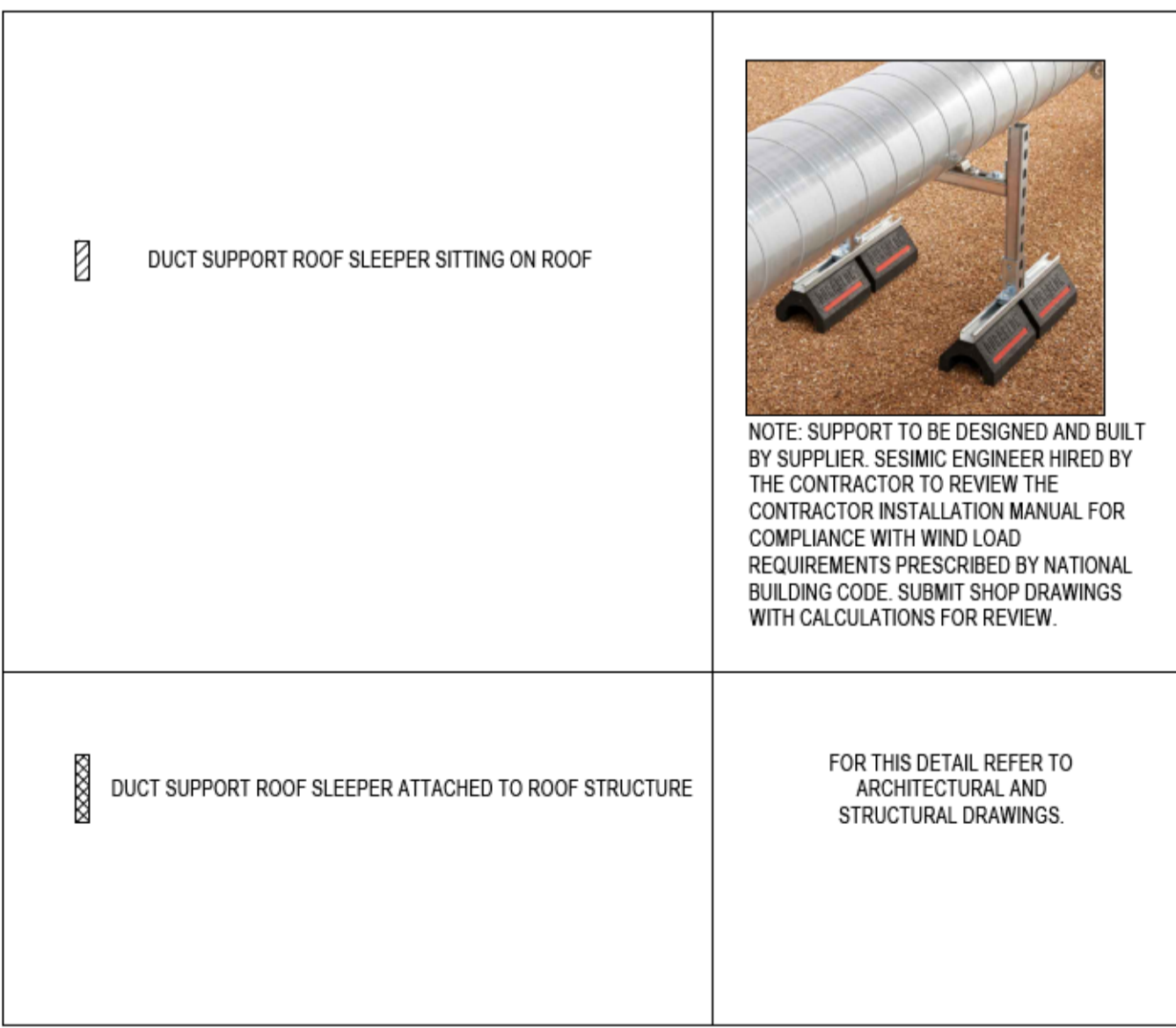
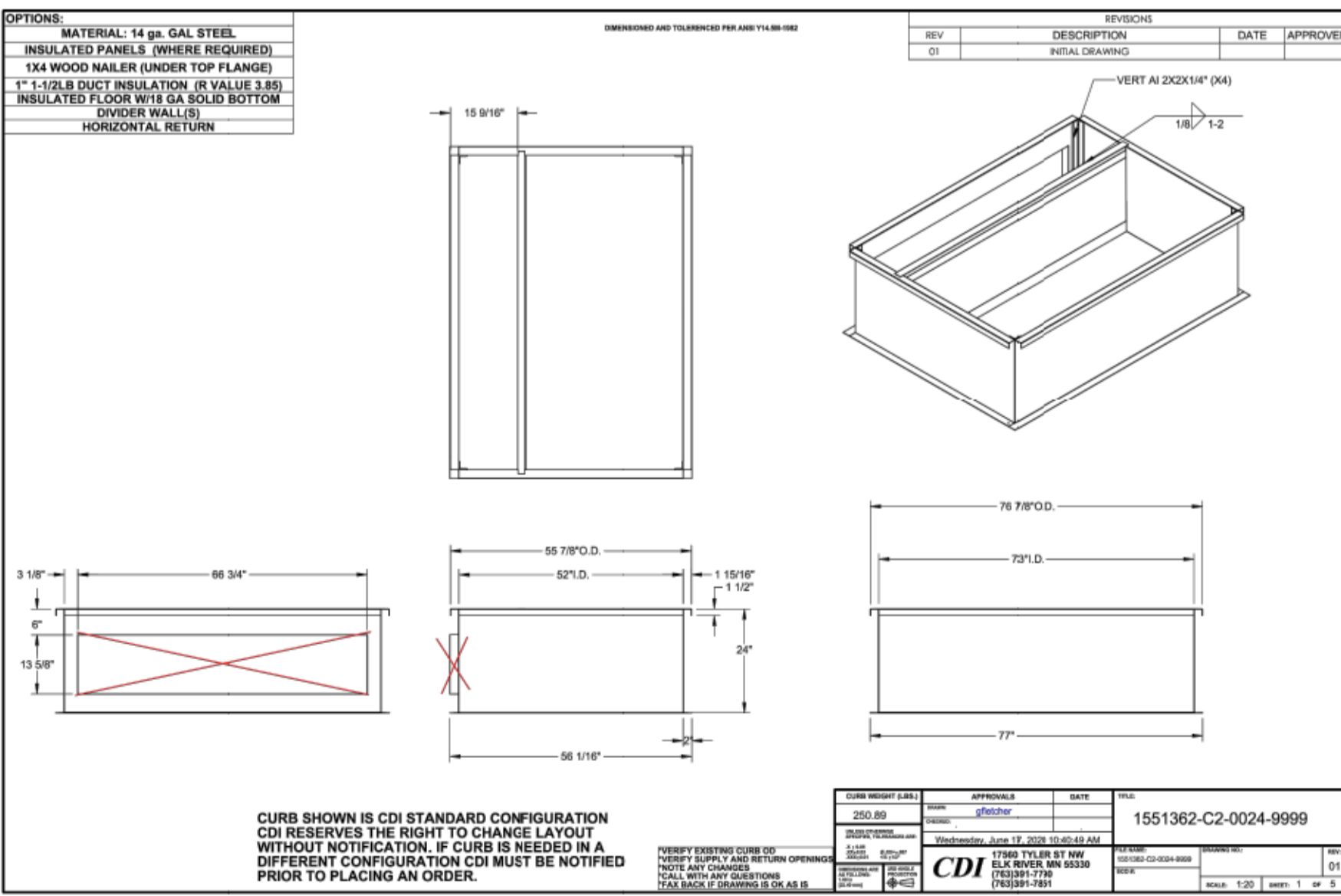
1. ALL EXPOSED DUCTWORK ON THE ROOF AND VERTICAL EXPOSED DUCTWORK DROPS TO BE THERMADUCT 50mm INSULATION APPROPRIATE FOR APPLICATION OUTDOORS, WITH DUCT SUPPORTS, WITH MAXIMUM SPAN ALLOWED, END COVERS, ETC.
2. ALL DUCT DIMENSIONS ARE INSIDE DIMENSIONS.
3. ALL NEW DUCT MAINS AND ELBOWS WILL BE WITH LONG RADIUS ELBOWS OR TURNING VANES.

MECHANICAL - ROOF FLOOR PLAN RENO
1:100
SCALE: 1:100



UNISTRUT PLATFORM AND CROSSOVER STAIR SYSTEM

HRV-1 & HRV-2 CURB:



Public Works and Government Services / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

INTEGRAL GROUP
INTEGRAL GROUP PROJECT NUMBER: 151976.001

PROFESSIONAL ENGINEER
L. NIKOLIC
#33435
2020-12-14

Revision	Description/Description	Date/Date
5	RE-ISSUED FOR TENDER	2020.12.14
4	ISSUED FOR TENDER	2020.11.18
3	ISSUED FOR 99% SUBMISSION	2020.10.02
2	ISSUED FOR 99% REVIEW	2020.09.24
1	ISSUED FOR REVIEW	2020.09.15
0	50% OF 66% SUBMISSION	2020.03.31

CORRECTIONAL SERVICE CANADA

Project Title/Titre du projet
ABBOTSFORD, BRITISH COLUMBIA
33344 KING ROAD
MATSQUI INSTITUTION BUILDING LU5
MATSQUI LIVING UNIT 5
UNDERSLAB SUPPLY VENTING

Consultant Signature Only

Designed by/Concept par
Ivan Nikolic

Drawn by/Dessiné par
Dean Whaley

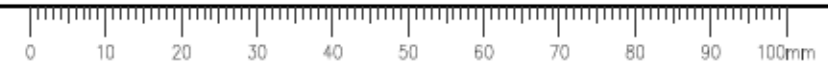
PWSC Project Manager/Administrateur de Projets TPSGC
Ken Wendt

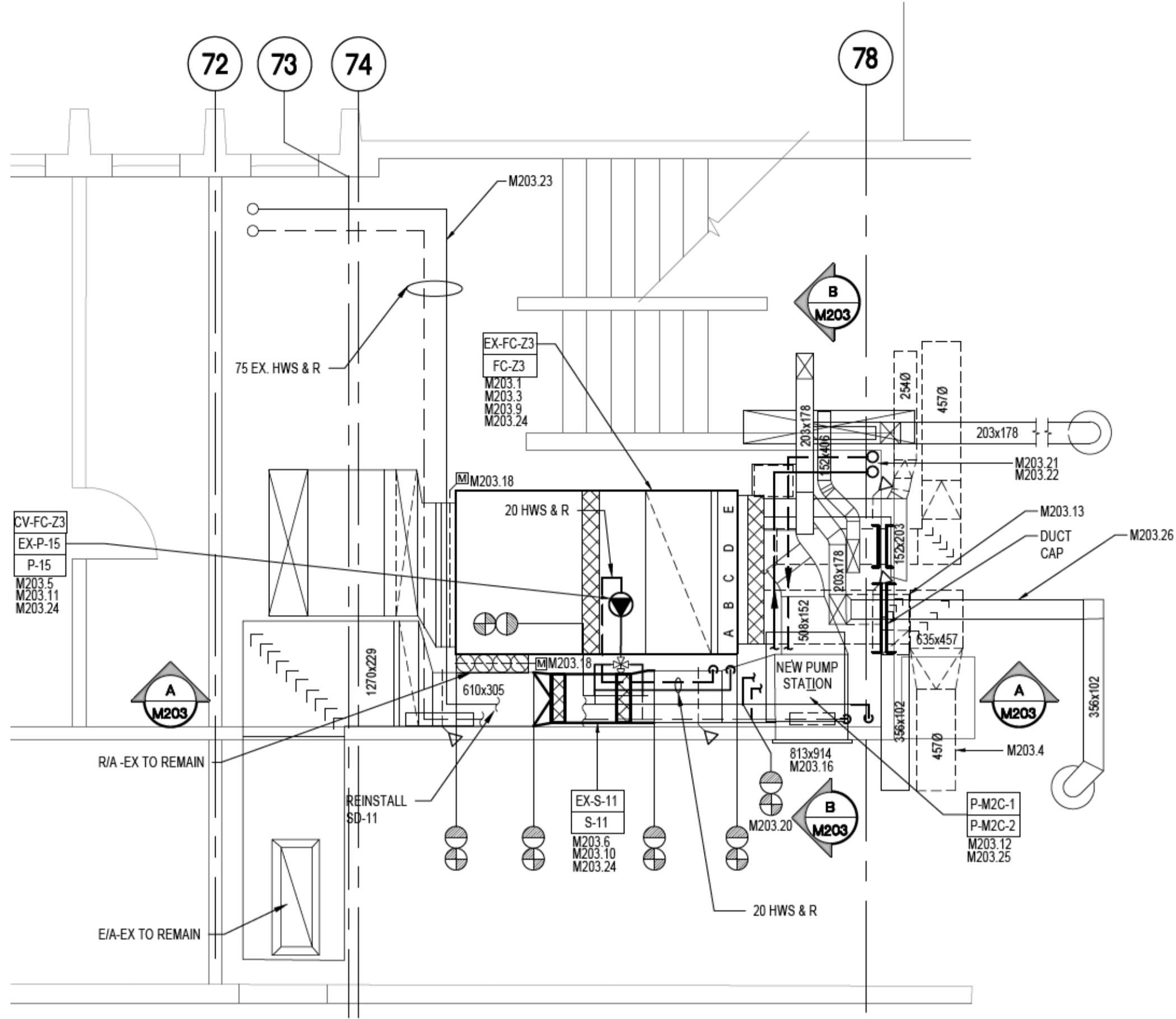
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
Frederic Paul

Drawing Title/Titre du dessin

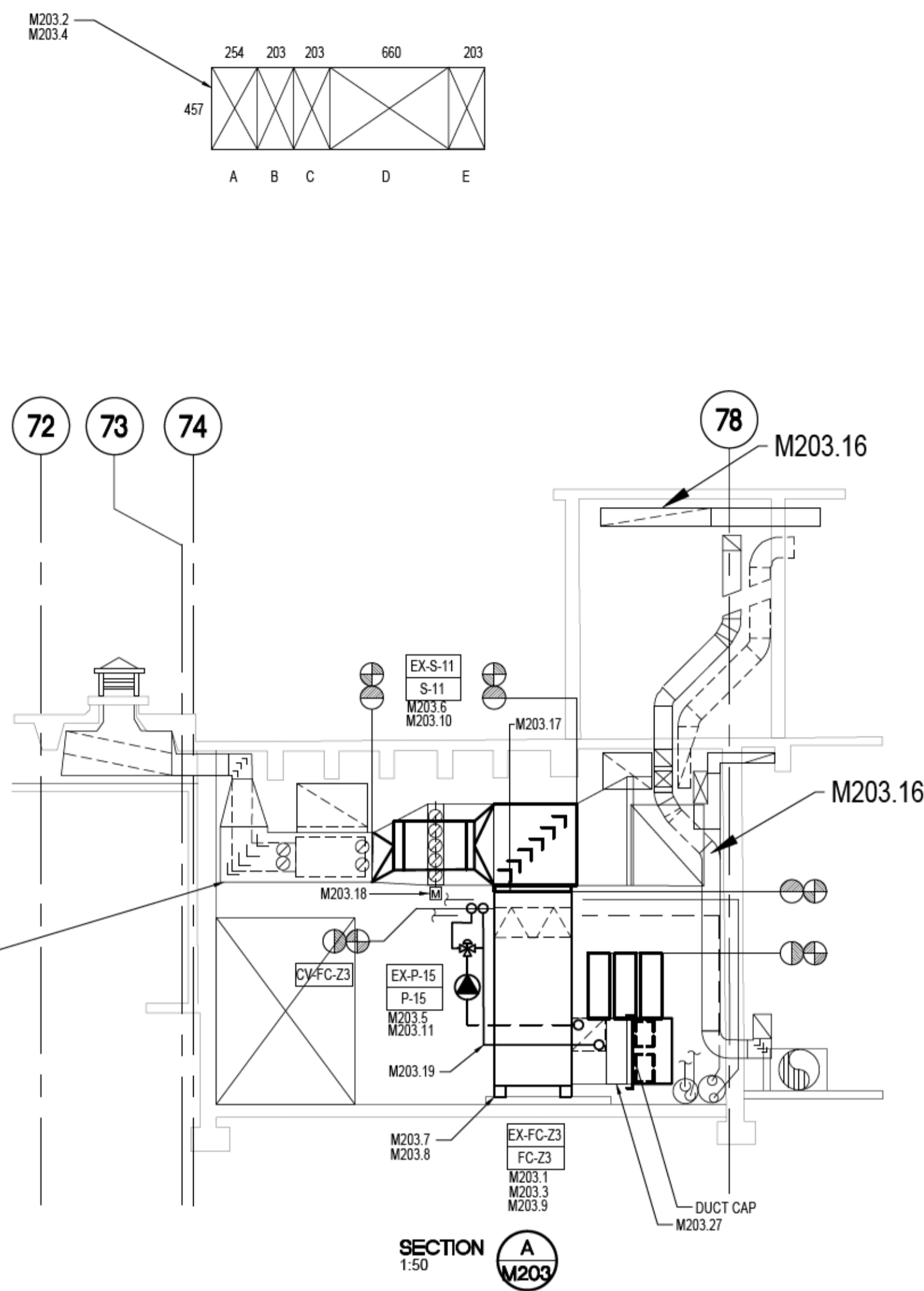
MECHANICAL - ROOF PLAN - RENO

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.111315.001	M202	5

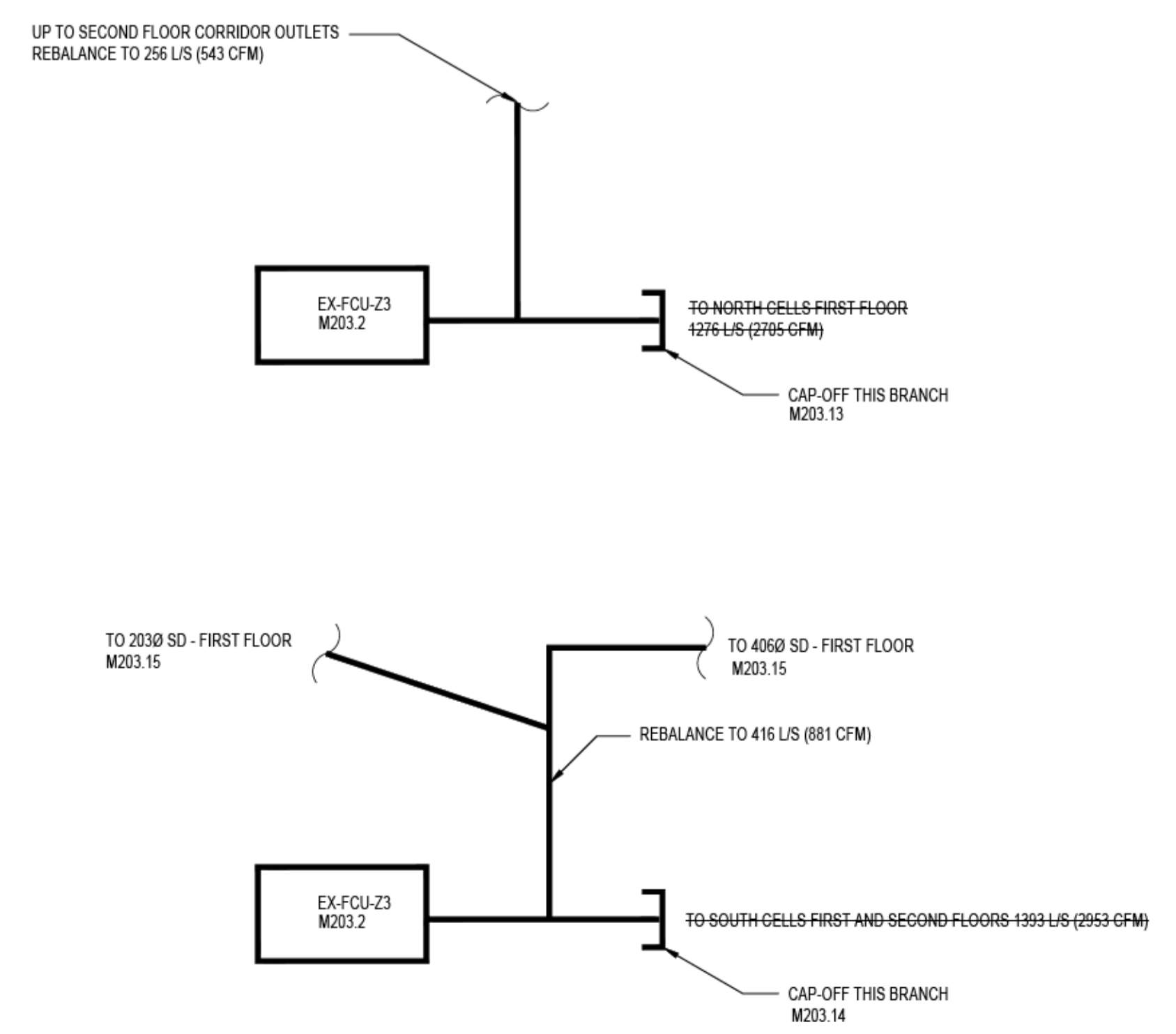




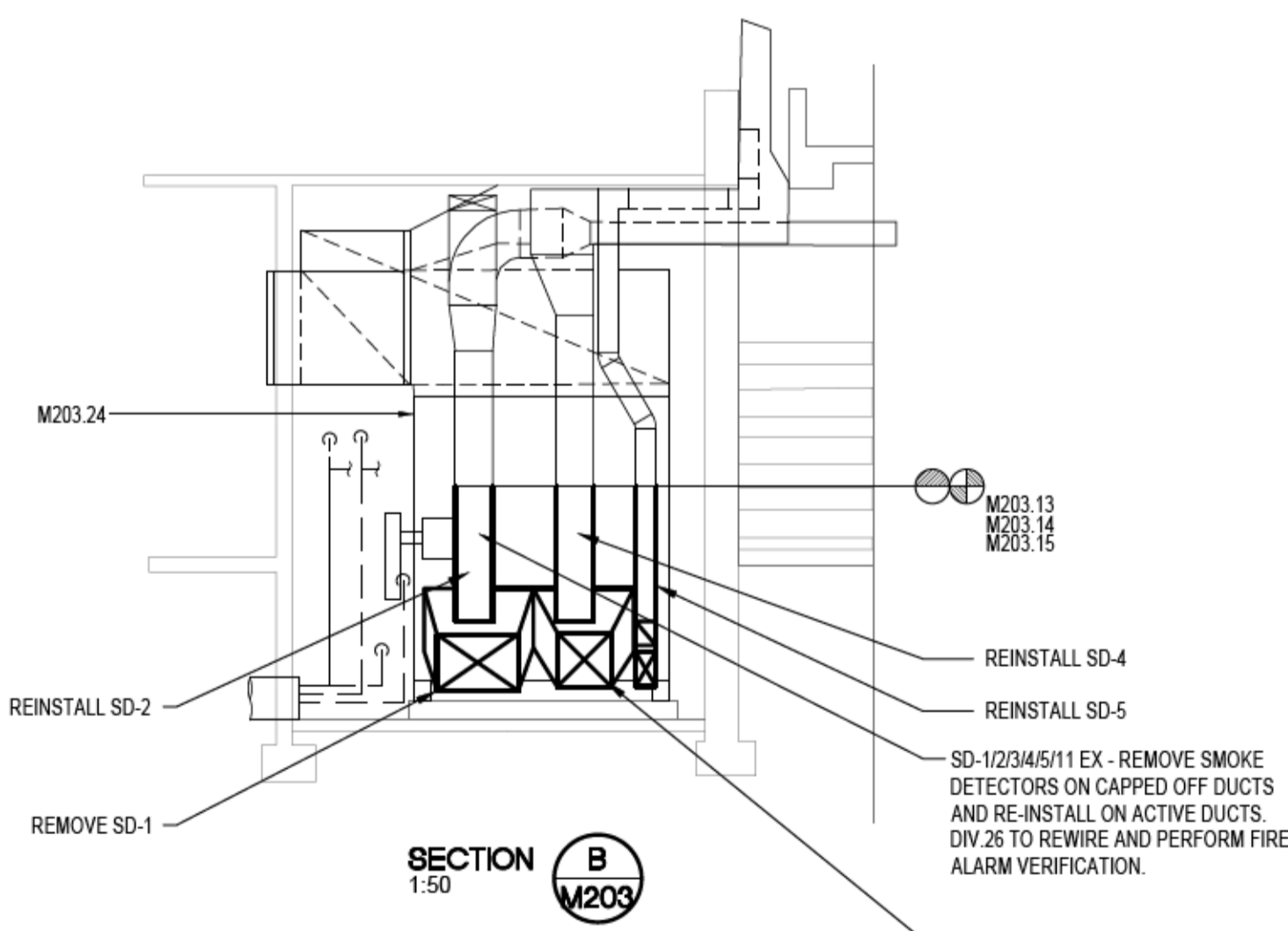
MECHANICAL - BASEMENT FLOOR PLAN DEMO + RENO
1:50
SCALE: 1:50



SECTION A
1:50
M203



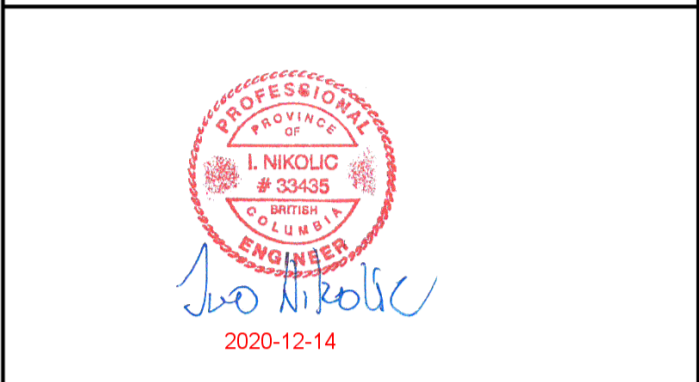
FCU-EX AIR FLOW SCHEMATIC



SECTION B
1:50
M203

DRAWING M203 NOTES:

- M203.1 REMOVE EXISTING MULTIZONE FAN COIL UNIT FCU-Z3 AND ASSOCIATED HEATING COIL, ZONE DAMPERS, AND ELECTRONIC ACTUATORS.
- M203.2 CONTRACTOR TO HIRE BALANCING CONTRACTOR TO TRACE ALL EXISTING SIA AND RIA DUCTWORK RELATED TO FC-Z3-EX AND S-11-EX SYSTEMS. CONTRACTOR TO UTILIZE SMOKE TRACING FOR EACH DUCT ZONE INDIVIDUALLY OF THE MULTIZONE UNIT PERFORM THIS WORK PRIOR TO PROCEEDING WITH DEMOLITION. PROVIDE SKETCH DRAWING AND SUBMIT TO THE DEPARTMENTAL REPRESENTATIVE. INDICATE DUCTWORK SCHEMATIC FOR ALL AREAS EXCEPT BELOW SLAB SIA DUCTWORK SERVING THE CELLS. [GENERAL NOTE]
- M203.3 REMOVE EXISTING FC-Z3-EX (SERVICE M2C, LOCATION MECH. RM. 3, CONFIGURATION VERTICAL, 3 ZONE, EAT 13C, LAT 54C, HWS FLOW 1.1 L/S, EWT 93C, LWT 66C, AIR FLOW 2567 L/S, ESP 249 PA, MOTOR 7.5 HP, 208/3/60, MANUFACTURER SSM, MODEL H060).
- M203.4 TEMPORARILY REMOVE TOTAL OF 5 ZONE SIA DUCT SMOKE DETECTORS (BRANCH TO SRD IN CORRIDOR 1ST FLOOR, BRANCH TO SD IN CORRIDOR ENTRY 1ST FLOOR AND BRANCH TO TWO SR'S ON 2ND FLOOR) SMOKE DETECTOR IN RIA DUCT TO REMAIN. COORDINATE MODIFICATION OF THE EXISTING FIRE ALARM PANEL WITH DIV. 26. UPDATE ZONE NUMBERING.
- M203.5 REMOVE EXISTING P-15-EX (CAPACITY 1.07 L/S, 1/6 HP, 120/1/60, ARMSTRONG S-35, S SERIES).
- M203.6 REMOVE EXISTING S-11-EX (AXIAL, 2171 L/S, 62 PA ESP, MOTOR 1/4 HP, 208/3/60)
- M203.7 PROVIDE C200 CHANNEL STRUCTURAL SUPPORT FOR NEW FC-Z3.
- M203.8 PROVIDE SEISMIC ENGINEER SCHEDULE B AND SCHEDULE C-B FOR INSTALLATION OF ALL EQUIPMENT, DUCTWORK AND PIPING (TYPICAL).
- M203.9 PROVIDE NEW UNIT FC-Z3. 1420 CFM, 1.25' ESP, VFD.
- M203.10 PROVIDE NEW EXHAUST FAN S-11. 1420 CFM. (208V, 1PH, 3/4 HP)
- M203.11 PROVIDE NEW PUMP P-15 AS SPECIFIED. (120/1/60).
- M203.12 PROVIDE TWO NEW PUMPS P-M2C-1&2 (DUTY/STAND-BY ARRANGEMENT), REFER TO SCHEMATIC ON M205 FOR ALL VALVES AND CONNECTIONS.
- M203.13 CAP-OFF EXISTING SIA DUCT BRANCH 508X457 SERVING NORTH CELLS FIRST AND SECOND FLOOR (EAST WALL IN MECH. ROOM 3). SIZE OF THE EXISTING DUCTWORK TO BE CONFIRMED.
- M203.14 CAP-OFF EXISTING SIA DUCT BRANCH 660X457 SERVING SOUTH CELLS FIRST AND SECOND FLOOR (EAST WALL IN MECH. ROOM 3). SIZE OF THE EXISTING DUCTWORK TO BE CONFIRMED.
- M203.15 MAINTAIN THE EXISTING SIA BRANCH SERVING SRD IN CORRIDOR 1ST FLOOR, BRANCH TO SRD IN CORRIDOR ENTRY 1ST FLOOR AND BRANCH TO TWO SR'S ON 2ND FLOOR).
- M203.16 MAINTAIN THE EXISTING RIA BRANCH SERVING RG ON 1ST FLOOR AND RG ON 2ND FLOOR.
- M203.17 MODIFY THE EXISTING RIA TOP DUCTWORK CONNECTION TO NEW FC-Z3. MODIFY EXISTING SIA SIDE DISCHARGE SIA CONNECTION TO REMAINING SIA BRANCHES. PROVIDE ACOUSTICAL LINER AND EXTERIOR THERMAL INSULATION ON ALL NEW SIA AND RIA DUCTWORK.
- M203.18 EXISTING MOTORIZED DAMPERS TO REMAIN.
- M203.19 PROVIDE NEW HYDRONIC HEATING PIPING CONNECTION TO THE HEATING COIL AT FC-Z3. REFER TO PIPING SCHEMATIC.
- M203.20 PROVIDE POINT OF CONNECTION FOR NEW HYDRONIC HWS&R PIPING TO THE EXISTING 75MM HWS&R-EX TO SERVE RADIANT PANELS IN CELL BLOCK AND THREE (3) ZONE COILS. RUN PIPING TO PUMP STATION AND FROM PUMP STATION TO HYDRONIC HEATING DISTRIBUTION SYSTEM. PROVIDE 50mm HWS&R ISOLATION VALVES. PROVIDE 50mm BALANCING VALVE (VALVAES NOT SHOWN ON PLAN).
- M203.21 PROVIDE 50MM HWS&R PIPING SERVING NEW RADIANT PANELS AND ZONE COILS.
- M203.22 PROVIDE THERMAL INSULATION ON ALL NEW HYDRONIC HEATING PIPING.
- M203.23 PROVIDE THERMAL INSULATION ON ALL EXISTING HYDRONIC HEATING PIPING.
- M203.24 MAINTAIN ALL EXISTING CONTROL POINTS RELATED TO THE EXISTING SYSTEMS (FC-Z3, S-11, P-15) AND ADD NEW AS REQUIRED. PROVIDE NEW WIRING AND COMMISSIONING AS REQUIRED.
- M203.25 PROVIDE NEW CONTROL POINTS FOR ALL ADDITIONAL EQUIPMENT AND SYSTEMS. RADIATION CONTROL VALVES, ZONE CONTROL VALVES, P-M2C-1&2, HRV-1&2, ETC.). EXPAND EXISTING CONTROL PANEL AS REQUIRED. ALL CONTROL WORK TO BE PERFORMED BY JOHNSON CONTROLS.
- M203.26 PERFORM COMMISSIONING AND BALANCING OF ALL MODIFIED MECHANICAL SYSTEMS AND THE EXISTING/NEW EQUIPMENT (TYPICAL).
- M203.27 SIA DUCTWORK TO BE EXTENDED TO THE EXISTING DUCT.



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Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**ABBOTSFORD, BRITISH COLUMBIA
33344 KING ROAD
MATSQUI INSTITUTION BUILDING LU5
MATSQUI LIVING UNIT 5
UNDERSLAB SUPPLY VENTING**

Consultant Signature Only

Designed by/Concept par
Ivan Nikolic
Drawn by/Dessiné par
Dean Whaley
PWGSC Project Manager/Administrateur de Projets TPSGC
Ken Wendi

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
Frederick Paul

Drawing title/Titre du dessin
MECHANICAL - BASEMENT PLAN - DEMO & RENO

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.111315.001	M203	5





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CORRECTIONAL SERVICE CANADA

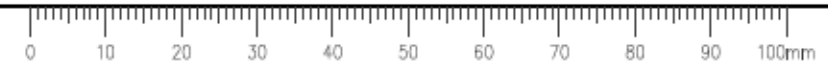
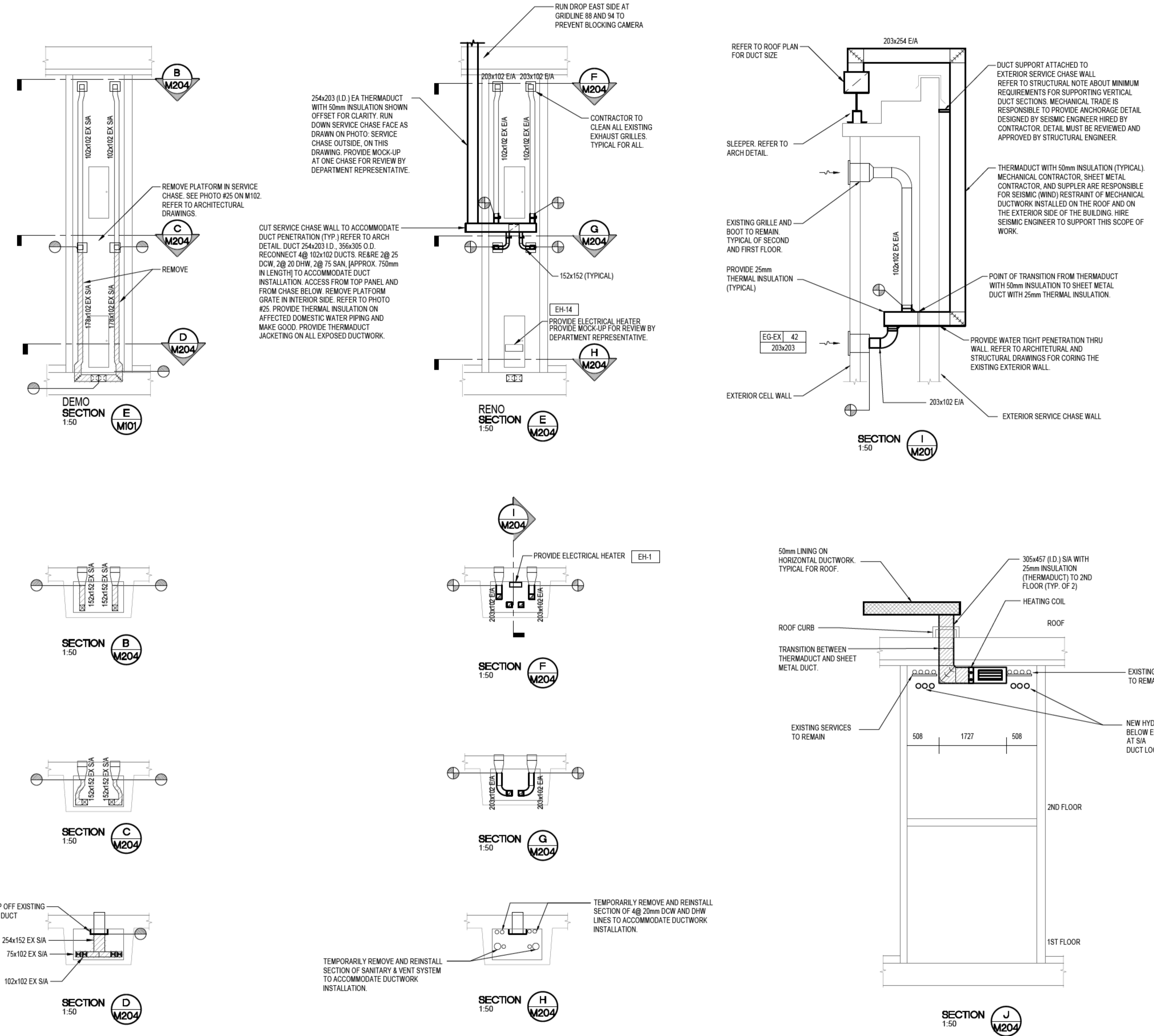
Project title/Titre du projet
**ABBOTSFORD, BRITISH COLUMBIA
33344 KING ROAD
MATSQUI INSTITUTION BUILDING LU5
MATSQUI LIVING UNIT 5
UNDERSLAB SUPPLY VENTING**

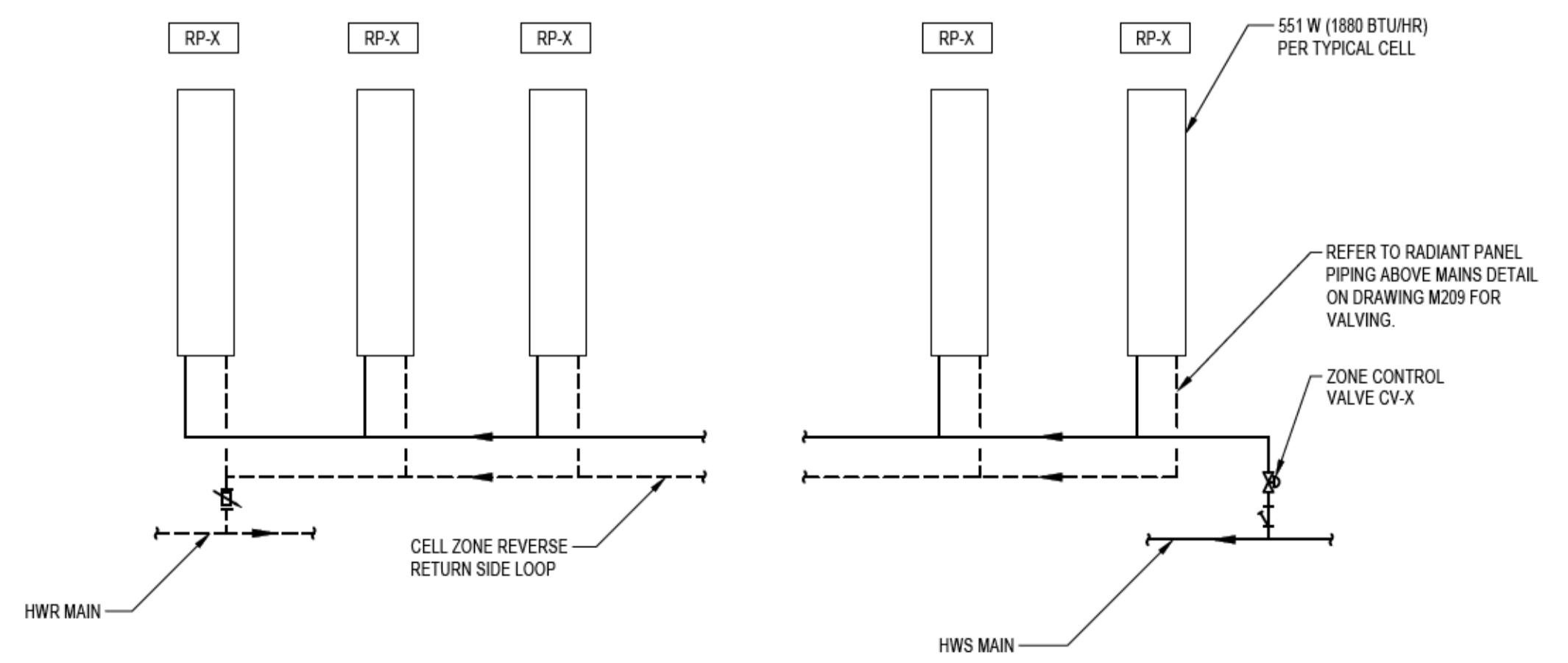
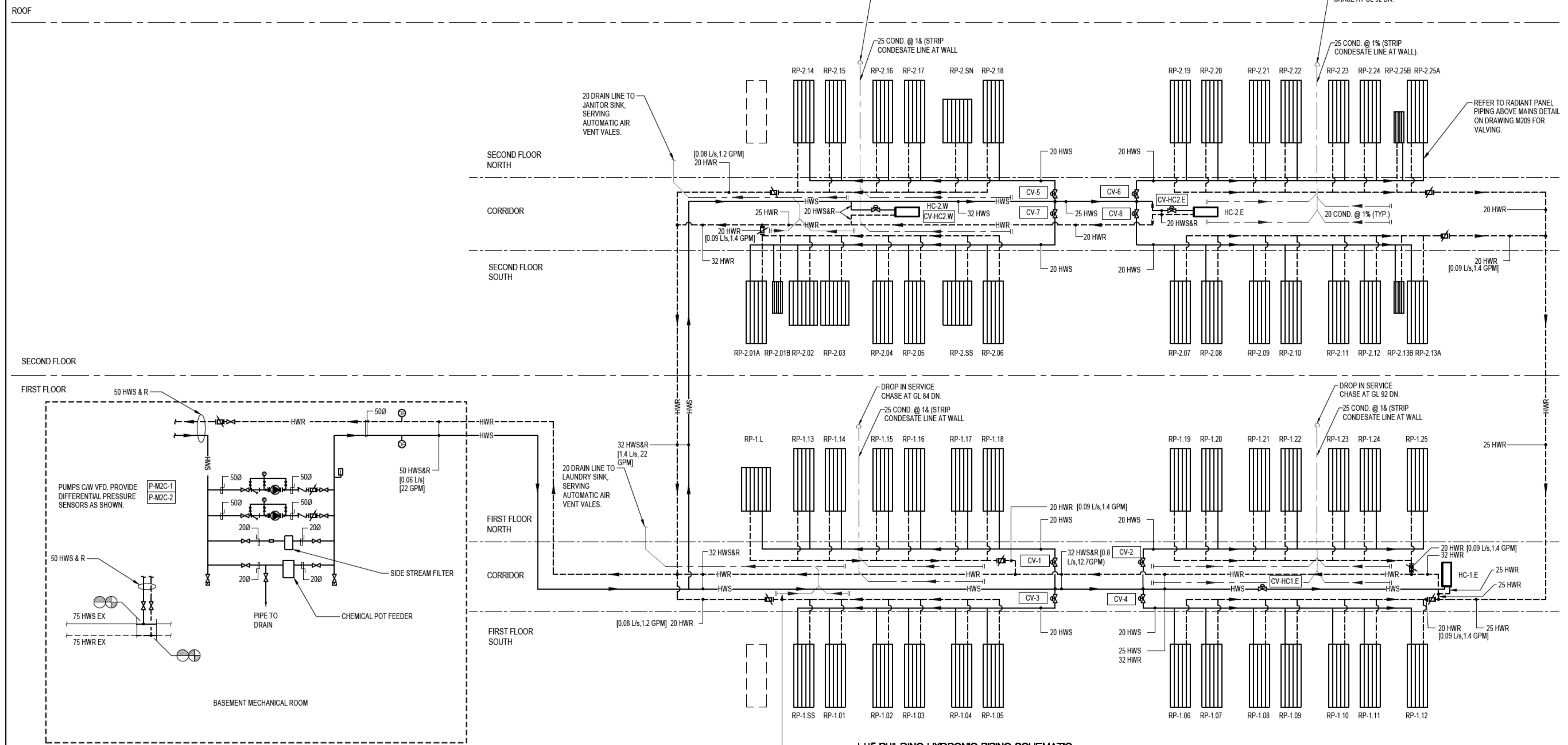
Consultant Signature Only
Designed by/Concept par
Ivan Nikolic
Drawn by/Dessiné par
Dean Whaley
PWGSC Project Manager/Administrateur de Projets TPSGC
Ken Wendt
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
Frederick Paul
Drawing title/Titre du dessin
MECHANICAL - SECTIONS

Project No./No. du projet R.111315.001	Sheet/Feuille M204	Revision no./La Révision no. 5
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SERVICE CHASE OUTSIDE





Revision/Revision	Description/Description	Date/Date
5	RE-ISSUED FOR TENDER	2020.12.14
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Client/client
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**ABBOTSFORD, BRITISH COLUMBIA
33344 KING ROAD
MATSQUI INSTITUTION BUILDING LU5
MATSQUI LIVING UNIT 5
UNDERSLAB SUPPLY VENTING**

Consultant Signature Only
Designed by/Concept par
Ivan Nikolic
Drawn by/Dessiné par
Dean Whaley
PWSC Project Manager/Administrateur de Projets TPSGC
Ken Wendt
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
Frederick Paul

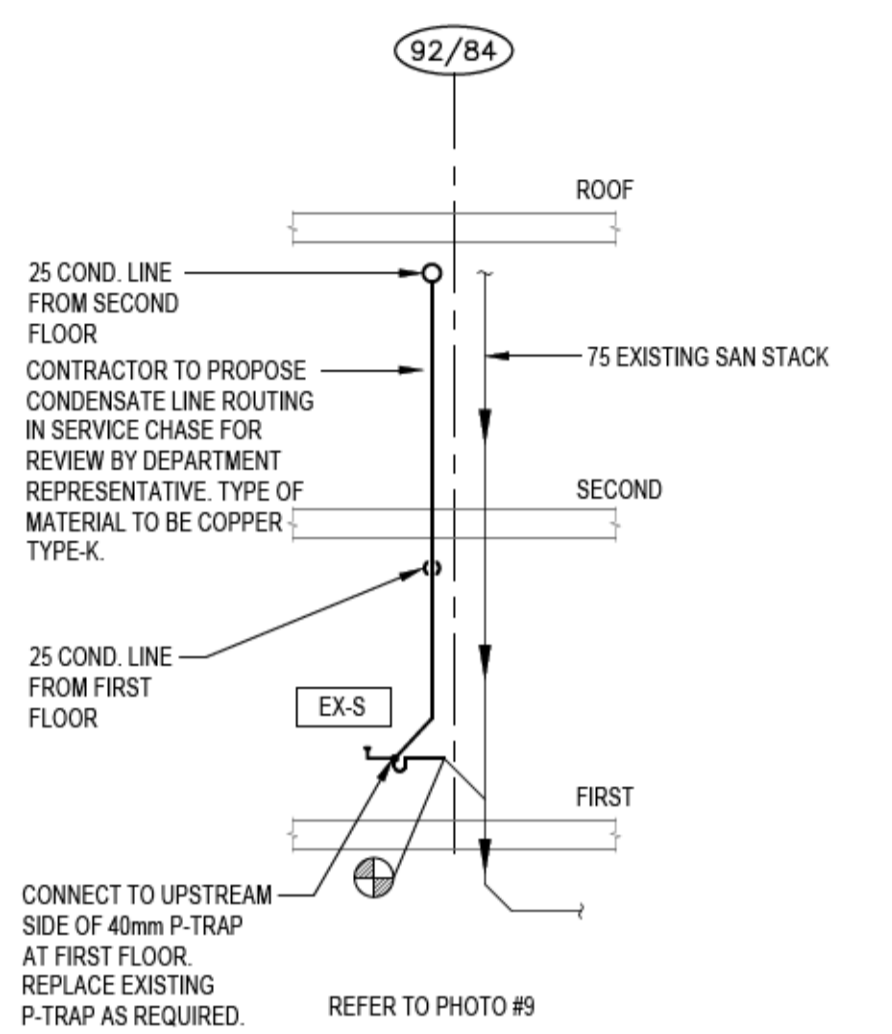
Drawing title/Titre du dessin
MECHANICAL - SCHEMATIC

Project No./No. du projet R.111315.001	Sheet/Feuille M205	Revision no./La Révision no. 5
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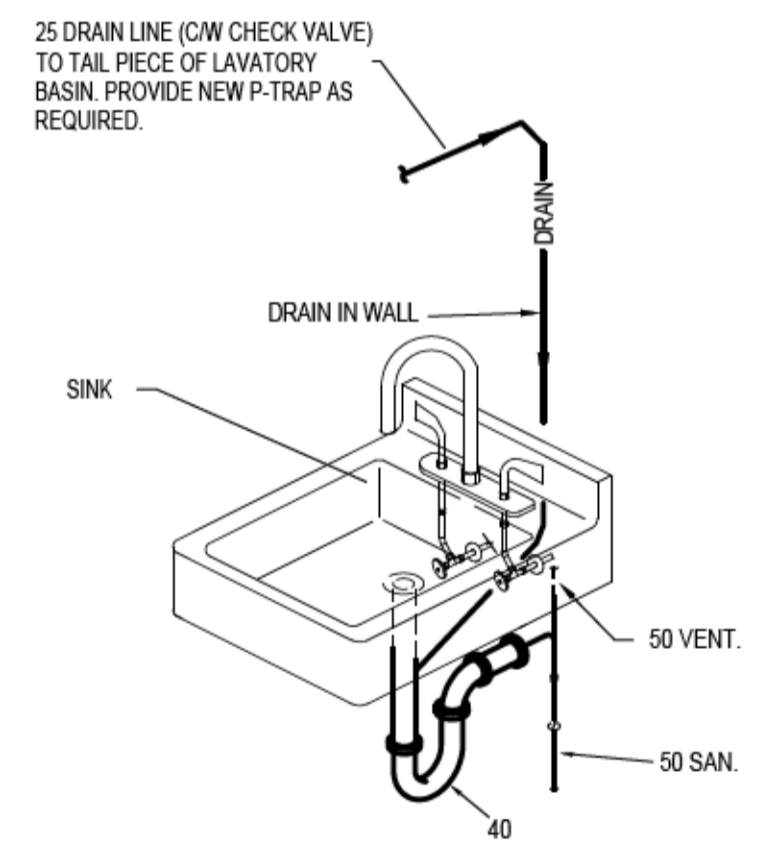




PLUMBING RAIN WATER LEADERS - NORTH N.T.S.



CONDENSATE DRAIN LINE CONNECTION SCHEMATIC N.T.S.



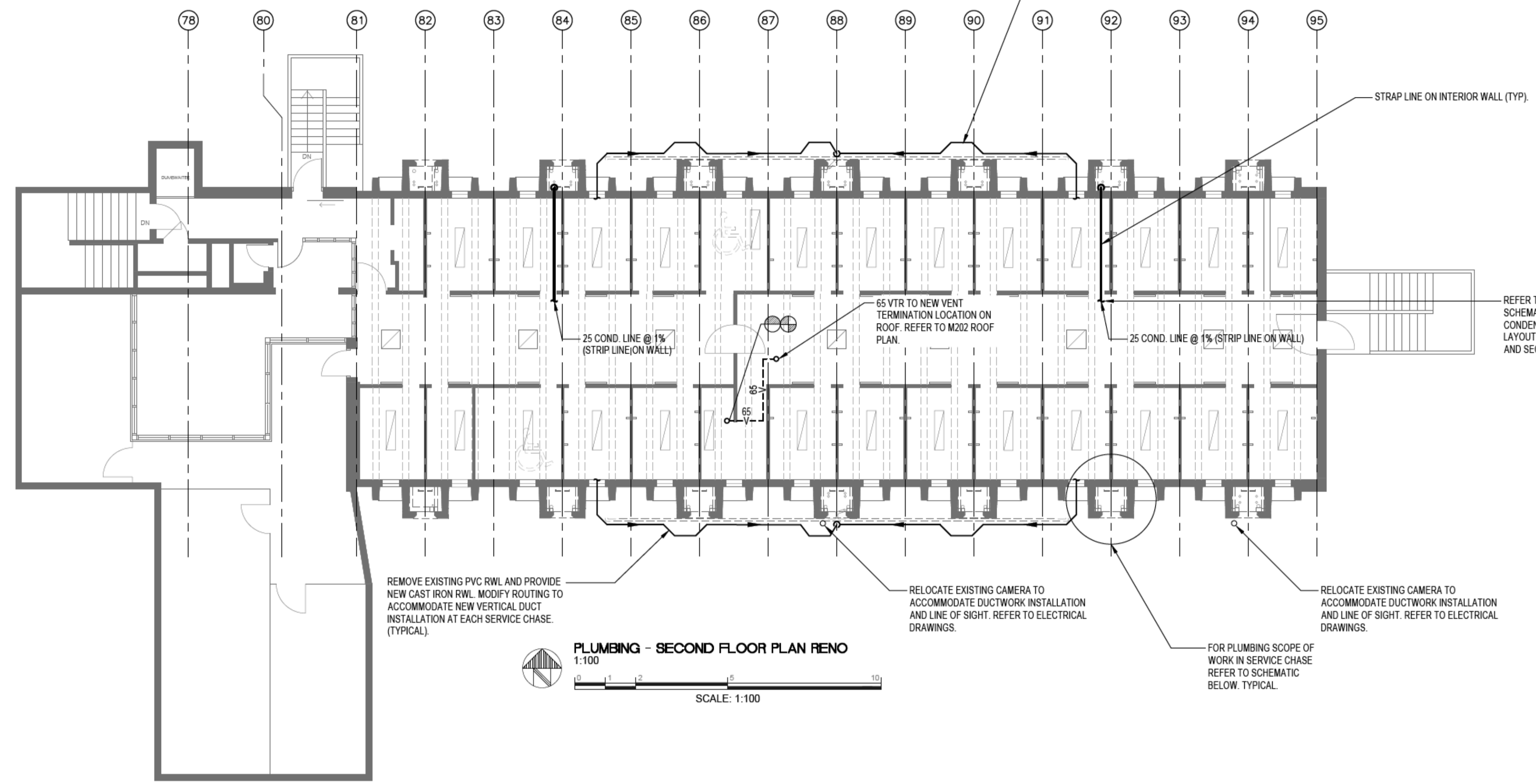
CONDENSATE DRAIN TO LAV. BASIN DETAIL



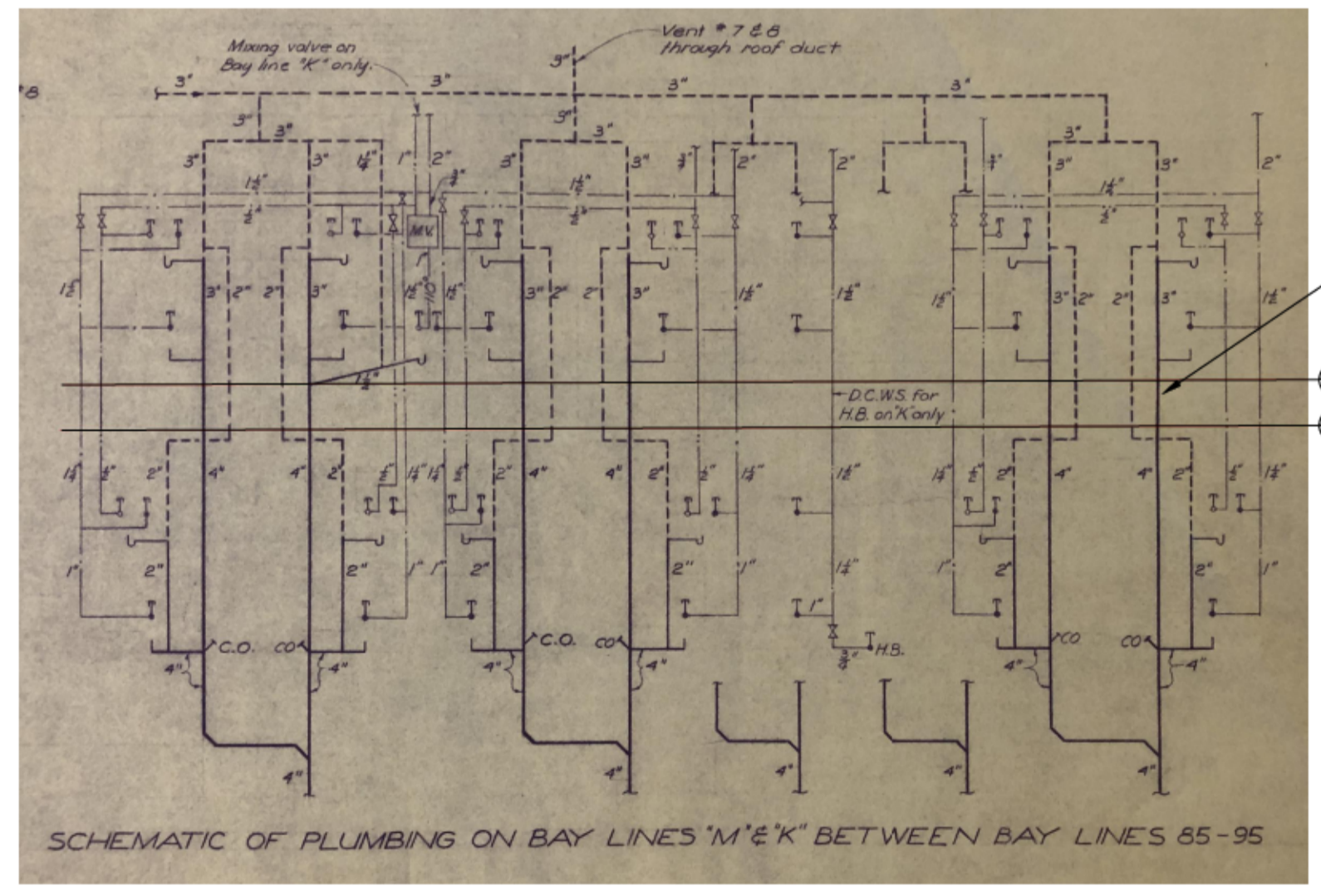
PLUMBING RAIN WATER LEADERS - SOUTH-WEST N.T.S.



PLUMBING RAIN WATER LEADERS - SOUTH-EAST N.T.S.



PLUMBING - SECOND FLOOR PLAN RENO 1:100



TYPICAL FOR ALL CHASES BETWEEN GRIDLINE 81 AND 95.

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33344 KING ROAD
MATSQUI INSTITUTION BUILDING LU5
MATSQUI LIVING UNIT 5
UNDERSLAB SUPPLY VENTING**

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Ivan Nikolic

Drawn by/Dessine par
Dean Whaley

PWGSC Project Manager/Administrateur de Projets TPSGC
Ken Wendt

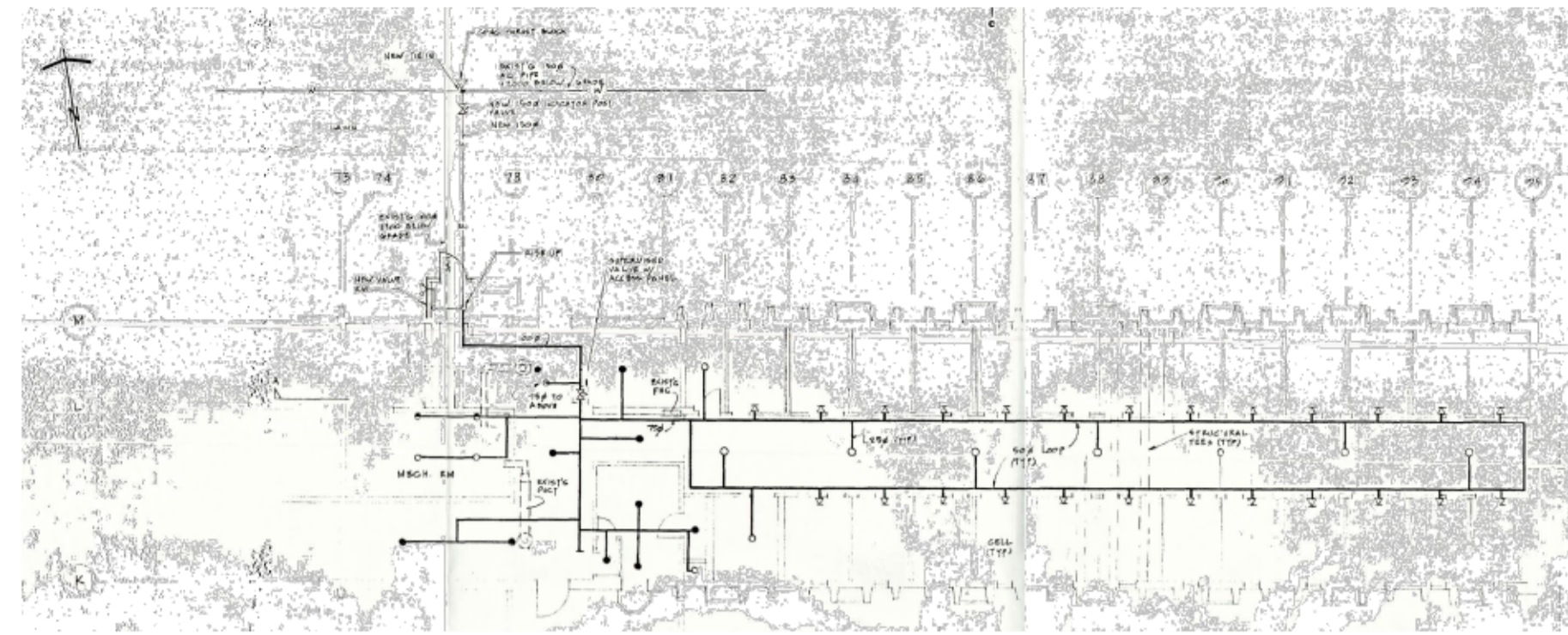
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
Paul Freestrip

Drawing title/Titre du dessin

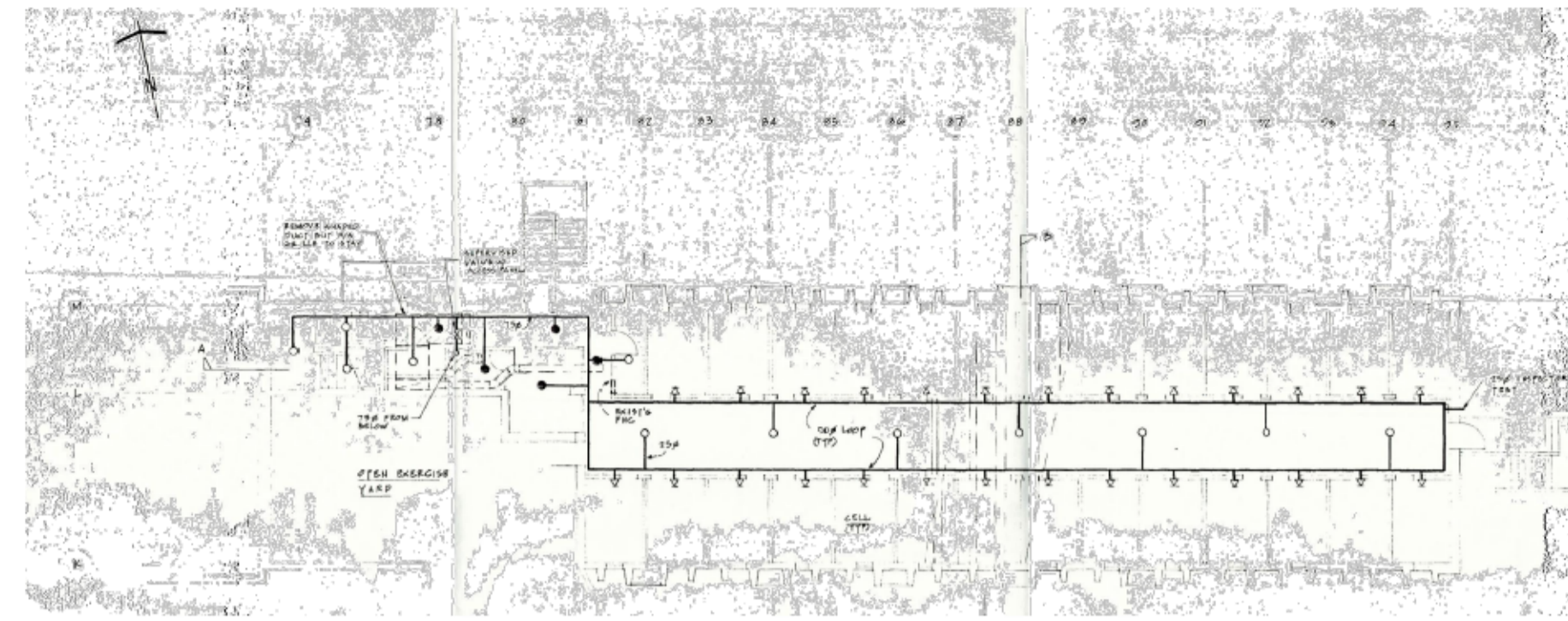
PLUMBING - RAIN WATER LEADERS & SERVICE CHASE

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.111315.001	M206	5

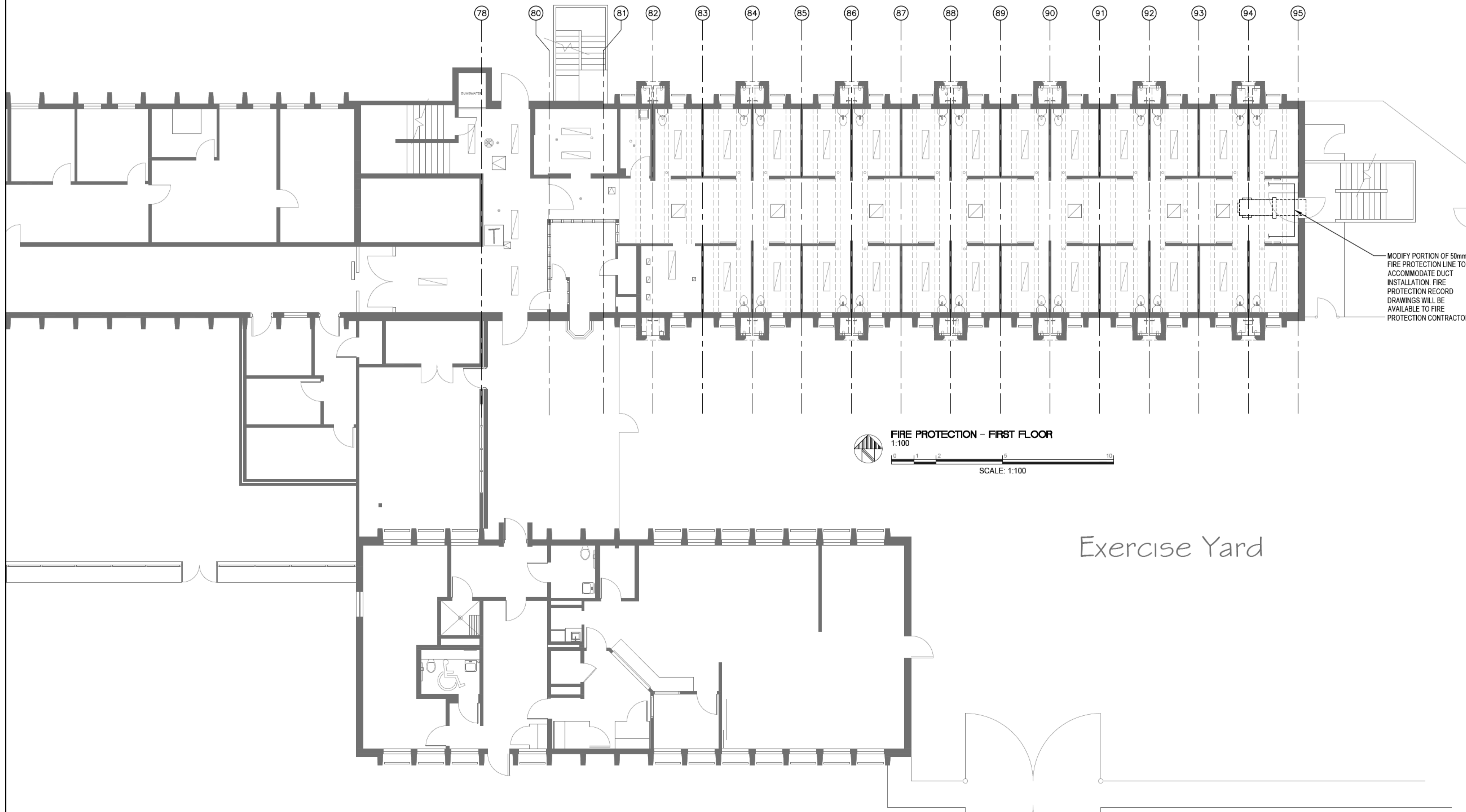




RECORD DRAWING - FIRE PROTECTION - FIRST FLOOR
N.T.S.



RECORD DRAWING - FIRE PROTECTION - SECOND FLOOR
N.T.S.



FIRE PROTECTION - FIRST FLOOR
1:100
SCALE: 1:100



Revision/	Description/Description	Date/Date
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Client/client
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33344 KING ROAD
MATSQUI INSTITUTION BUILDING LU5
MATSQUI LIVING UNIT 5
UNDERSLAB SUPPLY VENTING**

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Ivan Nikolic
Drawn by/Dessiné par
Dean Whaley
PWGSC Project Manager/Administrateur de Projets TPSGC
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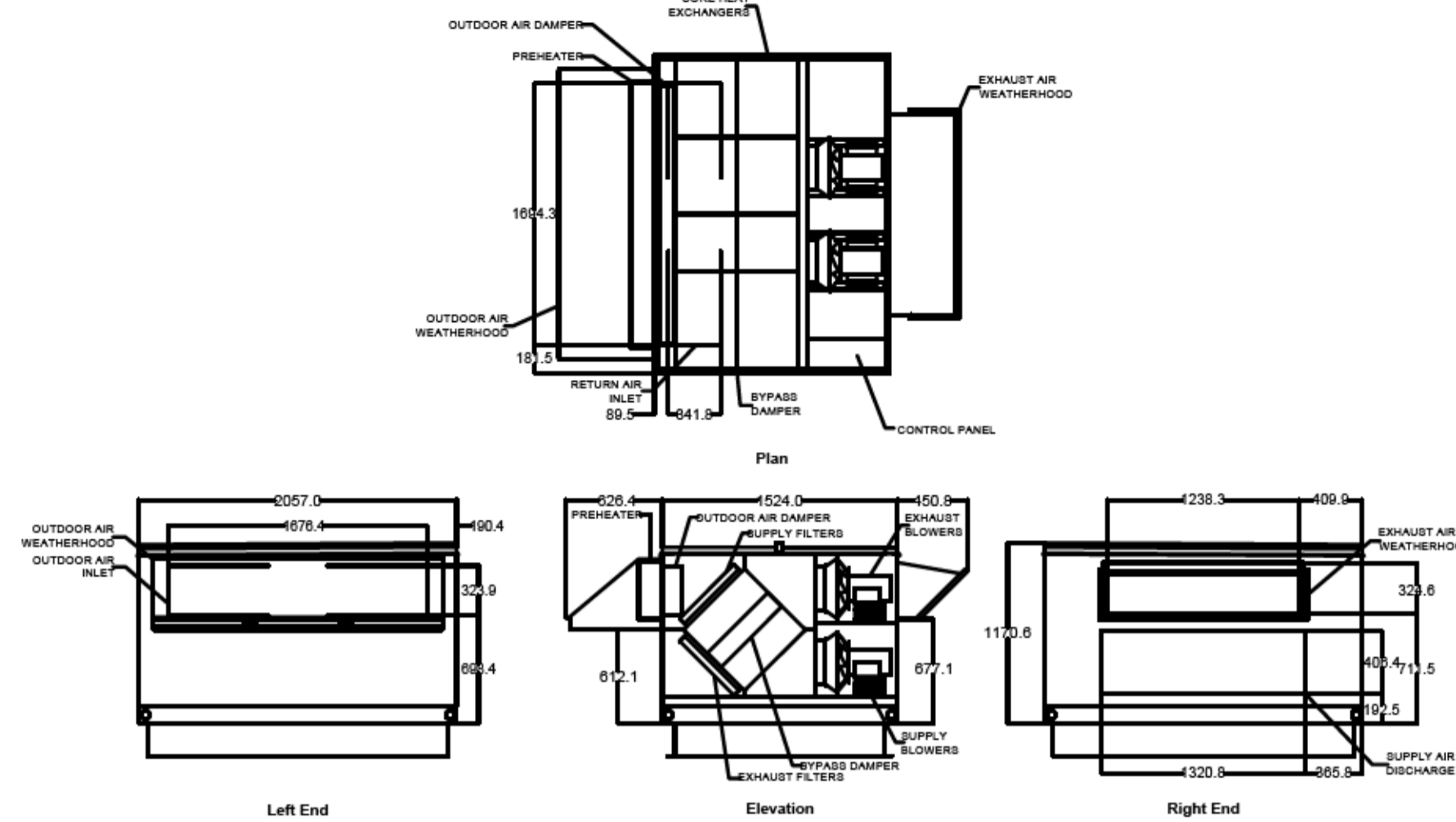
Drawing title/Titre du dessin
FIRE PROTECTION - FIRST FLOOR

Project No./No. du projet R.111315.001	Sheet/Feuille M207	Revision no./La Révision no. 5
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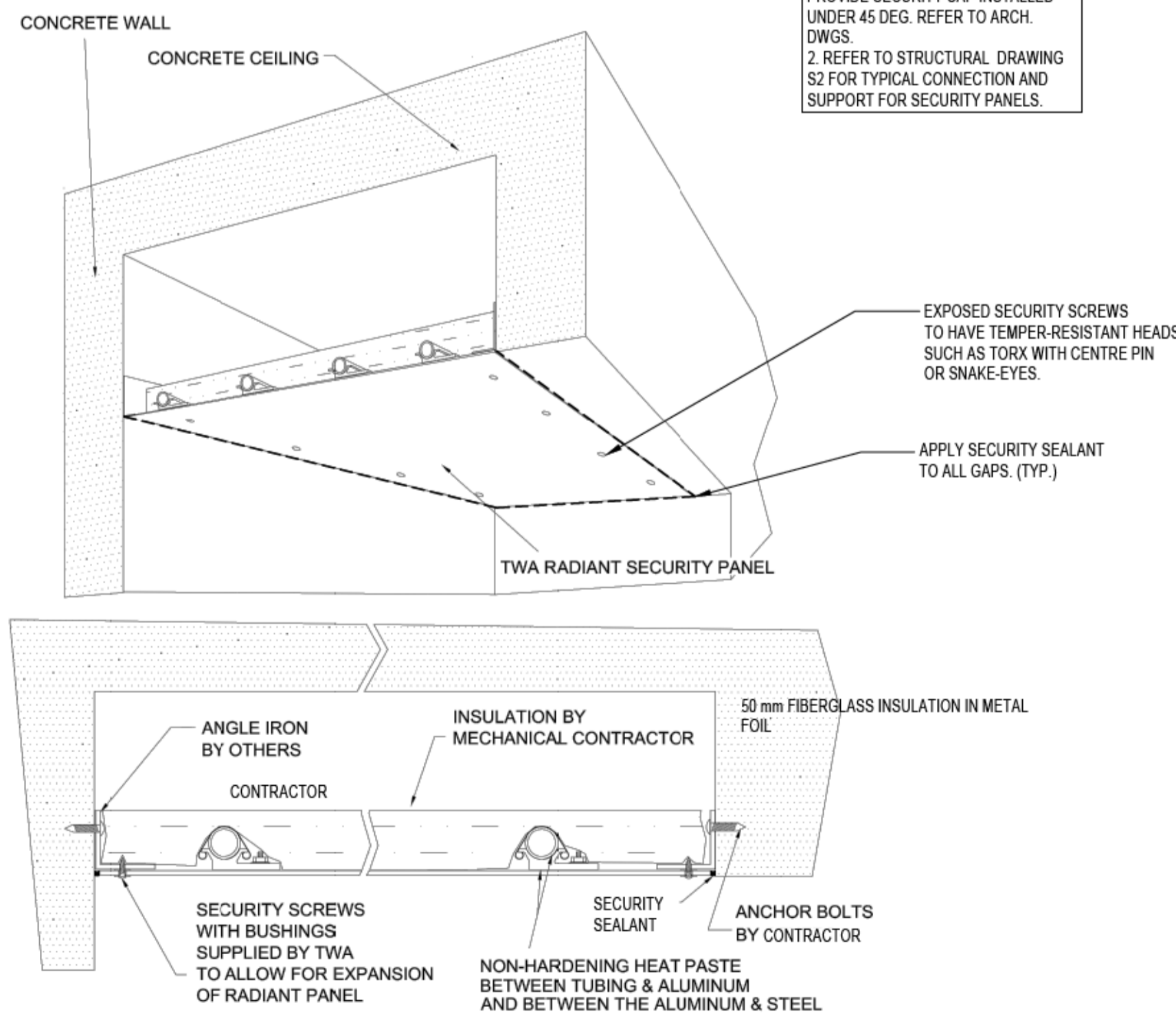


Unit Performance

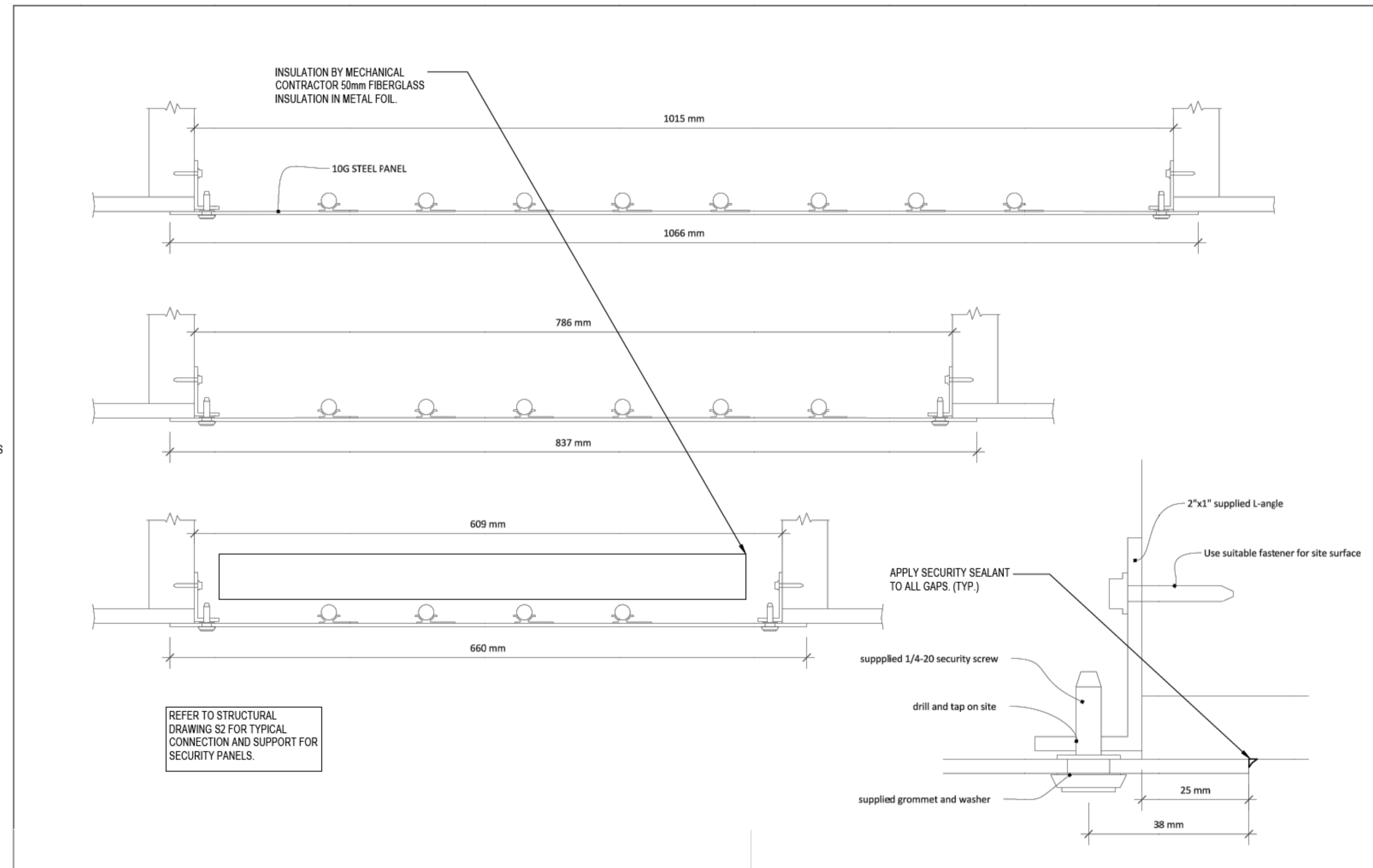
Design Conditions							
Elevation (ft)	Summer		Winter DB (F)	Outdoor Air (CFM)	Exhaust Air (CFM)		
	DB (F)	WB (F)					
194	84.0	68.0	11.0	2,100	2,650		
Unit Specifications							
Qty	Weight (lb)	Unit Installation		Unit ETL Listing			
1	1,101 (+/- 5%)	Outdoor		UL 1812			
Configuration							
Outdoor Air		Discharge		Exhaust Air			
Intake	End	End	Bottom	End	End		
Energy Recovery Performance							
Design Condition	Temperature (F)						Capacity Reduction (BTU/h)
	Outdoor Air		Supply Air		Return Air		
	DB	WB	DB	WB	DB	WB	
Summer	84.0	68.0	77.5	64.6	75.0	62.5	25,515.0
Winter	11.0	8.6	55.2	43.6	72.0	55.8	101,081.0
Air Performance							
Type	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	FRPM	Fan		Drive-Type
Supply	2,100	1.15	1,708	2038	Qty	Type	Direct
Exhaust	2,650	1.25	2,366	2425	2	Mixed Flow	Direct
Motor Specifications							
Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM	
Supply	2	0.62	1	ODP	PE	1725	
Exhaust	2	1.23	2	ODP	PE	1725	
Electrical Specifications							
Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)				
Unit	208/60/3	44.5	45.0				



HRV-1 + HRV-2 DIMENSIONS
N.T.S.



FLUSH MOUNTED SECURITY RADIANT PANEL BETWEEN CONCRETE FLUTES
N.T.S.



FLUSH MOUNTED SECURITY RADIANT PANEL - SUPPORT IN GYPSUM BOARD CEILING
N.T.S.



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Client/client
CORRECTIONAL SERVICE CANADA

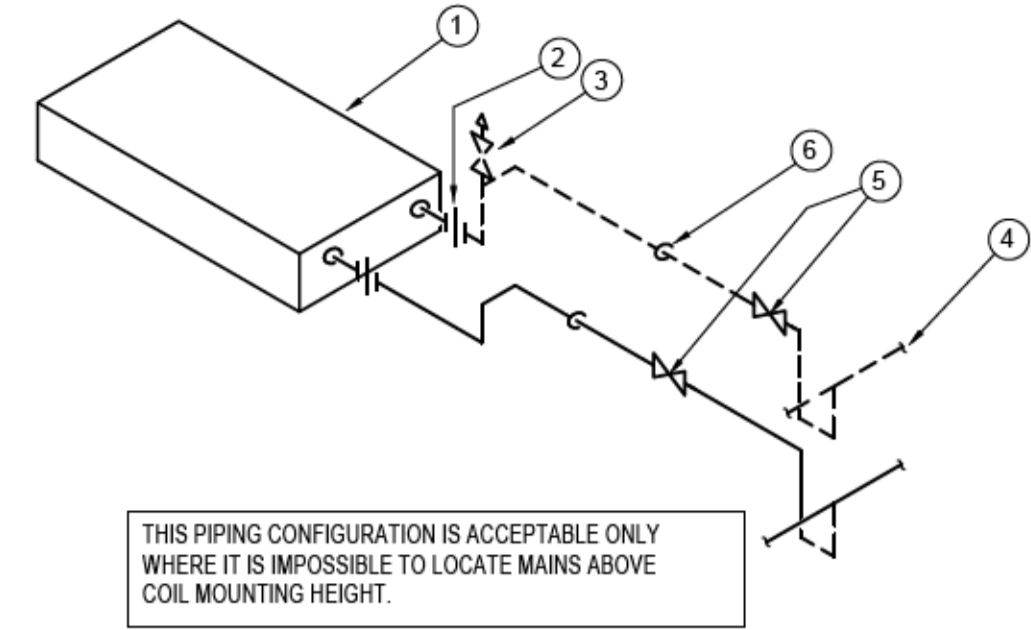
Project title/Titre du projet
**ABBOTSFORD, BRITISH COLUMBIA
33344 KING ROAD
MATSQUI INSTITUTION BUILDING LU5
MATSQUI LIVING UNIT 5
UNDERSLAB SUPPLY VENTING**

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Drawn by/Dessiné par
Dean Whaley
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MECHANICAL - DETAILS

Project No./No. du projet R.111315.001	Sheet/Feuille M208	Revision no./La Révision no. 5
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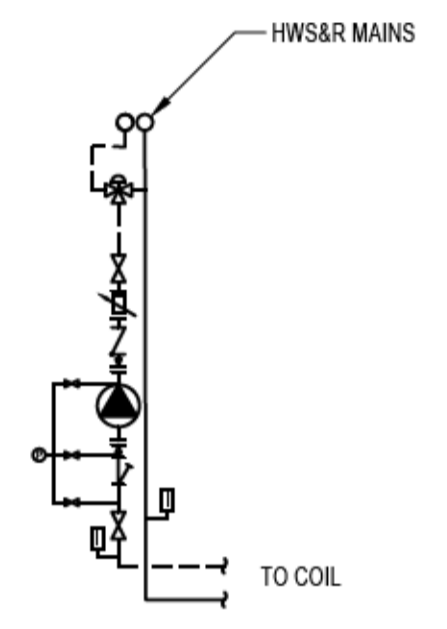




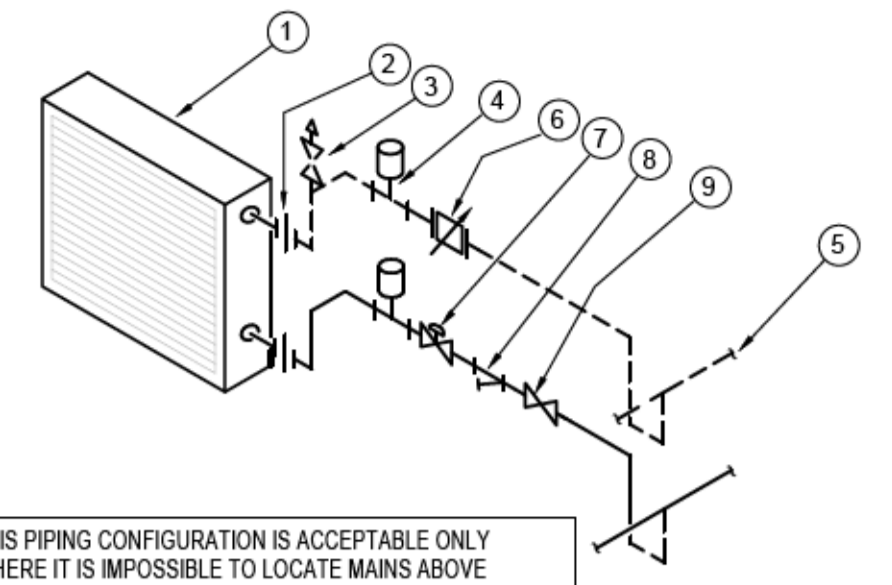
1. RADIANT PANEL
2. UNION
3. AUTOMATIC AIR VENT PIPE TO MAIN DRAIN LINE IN CORRIDOR. REFER TO SCHEMATIC M205 FOR ROUTING
4. HEATING MAINS
5. ISOLATION VALVE
6. WALL PENETRATION

THIS PIPING CONFIGURATION IS ACCEPTABLE ONLY WHERE IT IS IMPOSSIBLE TO LOCATE MAINS ABOVE COIL MOUNTING HEIGHT.

RADIANT PANEL PIPING ABOVE MAINS
N.T.S.



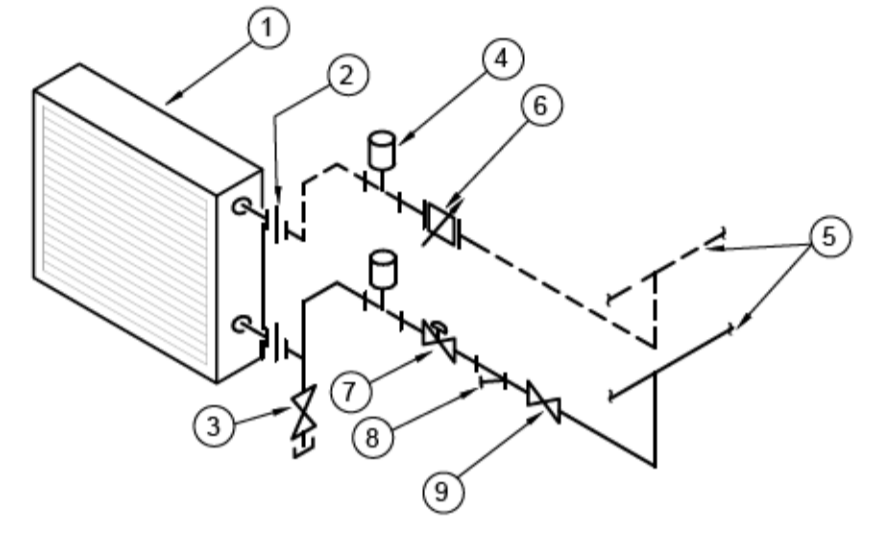
FCZ3 COIL PIPING DETAIL
N.T.S.



1. COIL
2. UNION
3. AUTOMATIC AIR VENT PIPE TO FLOOR DRAIN
4. PETE'S PLUG
5. HEATING MAINS
6. FLOW MEASUREMENT VALVE
7. CONTROL VALVE AS SCHEDULED
8. STRAINER
9. ISOLATION VALVE

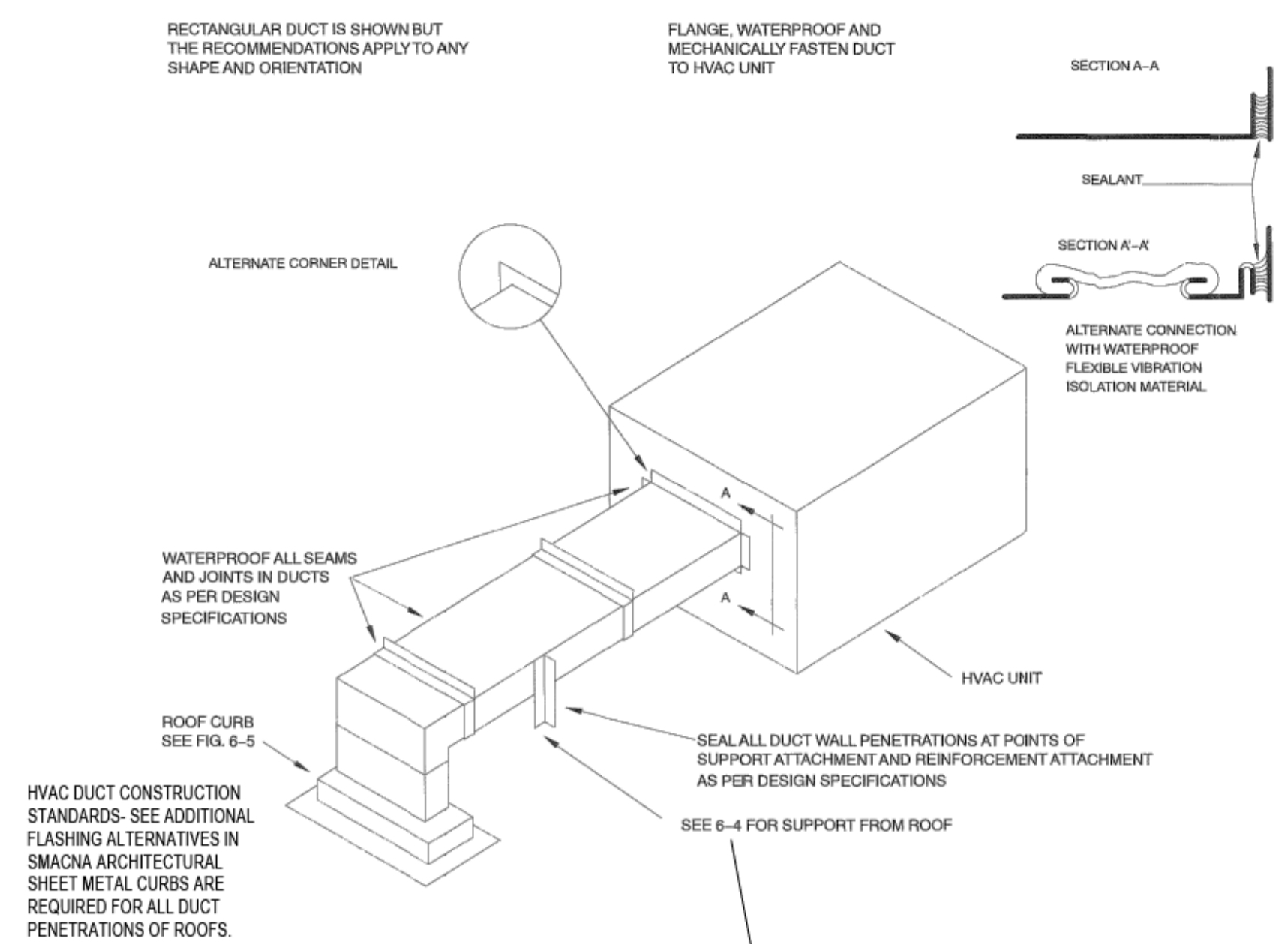
THIS PIPING CONFIGURATION IS ACCEPTABLE ONLY WHERE IT IS IMPOSSIBLE TO LOCATE MAINS ABOVE COIL MOUNTING HEIGHT.

ZONE COIL PIPING ABOVE MAINS
N.T.S.



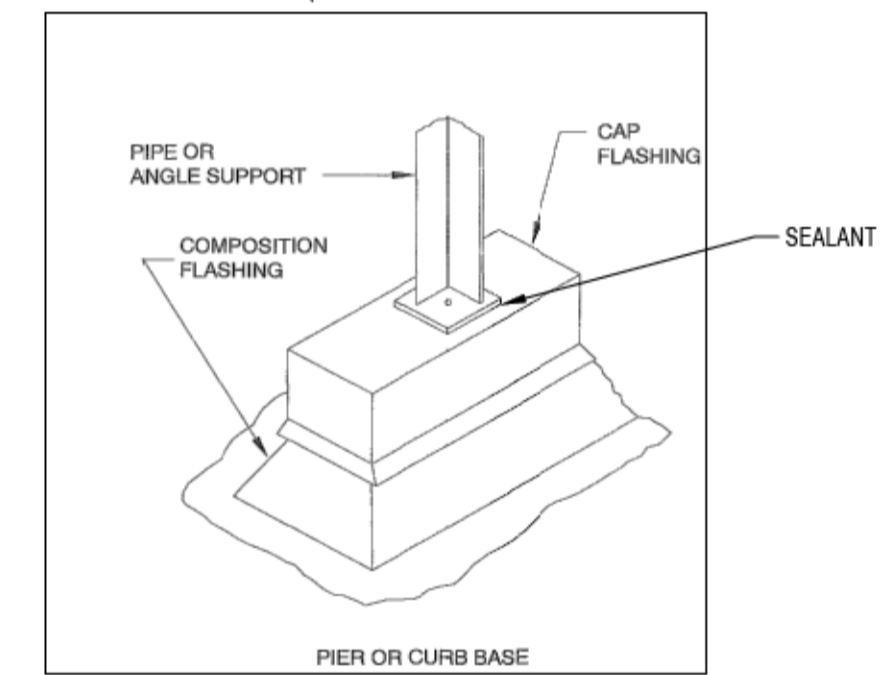
1. COIL
2. UNION
3. DRAIN COCK C/W CAP, CHAIN FASTENED TO PIPING
4. PETE'S PLUG
5. HEATING MAINS
6. FLOW MEASUREMENT VALVE
7. CONTROL VALVE AS SCHEDULED
8. STRAINER
9. ISOLATION VALVE

ZONE COIL PIPING BELOW MAINS
N.T.S.



HVAC DUCT CONSTRUCTION STANDARDS- SEE ADDITIONAL FLASHING ALTERNATIVES IN SMACNA ARCHITECTURAL SHEET METAL CURBS ARE REQUIRED FOR ALL DUCT PENETRATIONS OF ROOFS.

DUCT PENETRATION THROUGH ROOF- ISOMETRIC
N.T.S.



5	RE-ISSUED FOR TENDER	2020.12.14
4	ISSUED FOR TENDER	2020.11.18
3	ISSUED FOR 99% SUBMISSION	2020.10.02
2	ISSUED FOR 99% REVIEW	2020.09.24
1	ISSUED FOR REVIEW	2020.09.15
0	50% OF 66% SUBMISSION	2020.03.31
Revision/	Description/Description	Date/Date

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
**ABBOTSFORD, BRITISH COLUMBIA
33344 KING ROAD
MATSQUI INSTITUTION BUILDING LU5
MATSQUI LIVING UNIT 5
UNDERSLAB SUPPLY VENTING**

Consultant Signature Only

Designed by/Concept par
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MECHANICAL - DETAILS CONTINUED

Project No./No. du projet R.111315.001	Sheet/Feuille M209	Revision no./La Révision no. 5
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