Public Works and Government Services Canada

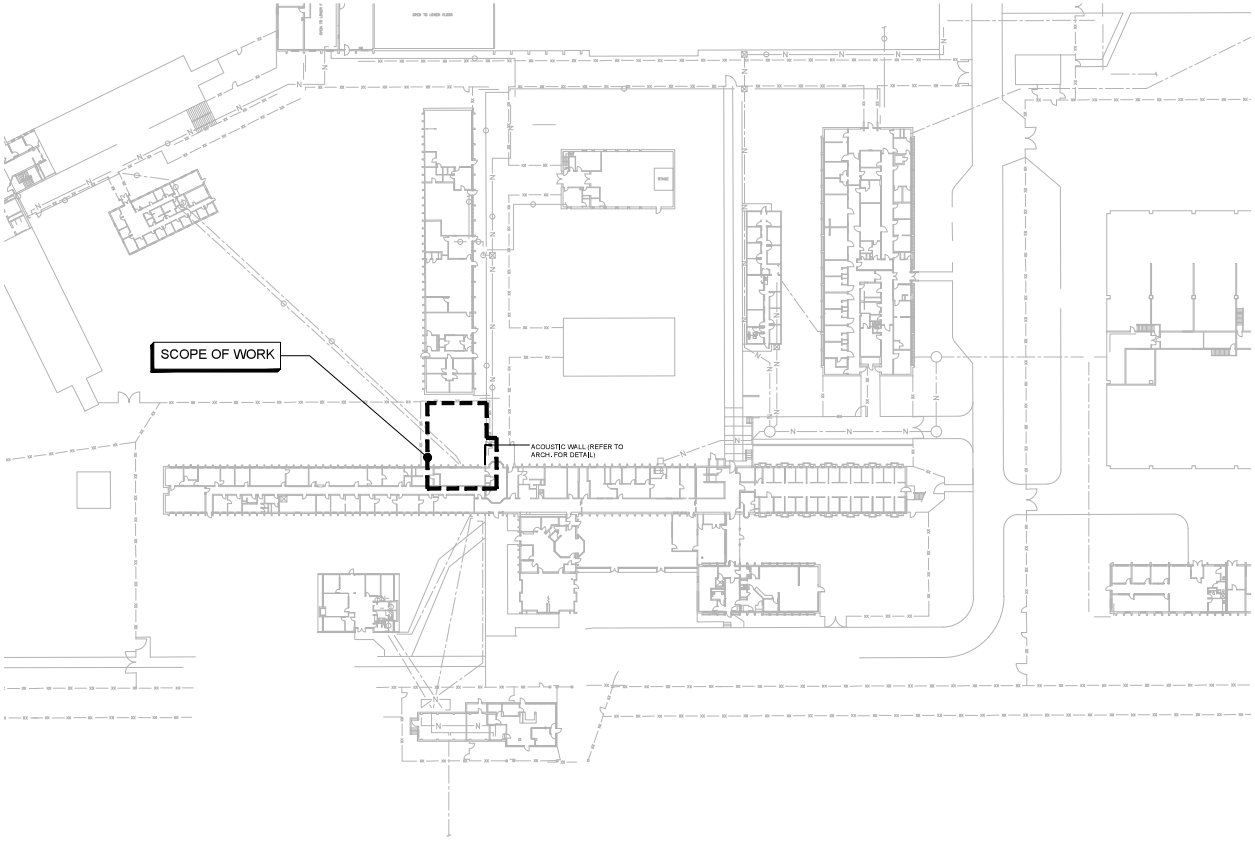
Travaux publics et Services gouvernementaux Canada

CONTRACT NUMBER: R.113047.001

M2A UPGRADE CER COOLING

MATSQUI INSTITUTION ABBOTSFORD, BC 33344 KING ROAD

ARCHITECTURE 49



SITE PLAN
SCALE 1:500

MECHANICAL DRAWING LIST	
SHEET NUMBER	SHEET TITLE
M100	COVER SHEET, SITE PLAN AND DRAWING LIST
M101	DEMOLITION AND NEW COURTYARD & ROOF PLAN
M201	CER HVAC AND PLUMBING PLANS
M301	MECHANICAL SCHEDULES + DETAILS

ELECTRICAL DRAWING LIST	
SHEET NUMBER	SHEET TITLE
E100	SITE PLAN, LEGEND AND DRAWING LIST
E101	ELECTRICAL DEMOLITION AND NEW PLAN
E200	ELECTRICAL PARTIAL SINGLE LINE AND SCHEDULES

STRUCTURAL DRAWING LIST	
SHEET NUMBER	SHEET TITLE
S101	NOTES, PLAN AND DETAILS

ARCHITECTURAL DRAWING LIST	
SHEET NUMBER	SHEET TITLE
A101	PLAN AND DETAIL

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

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

wsp

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA 40033

Revision/ Révision	Description/Description	Date/Date
C	ISSUED FOR TENDER	21-03-31
B	ISSUED FOR 99% CD	21-01-11
A	ISSUED FOR 66% CD	20-12-10

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

MATSQUI INSTITUTION
ABBOTSFORD, BC
33344 KING ROAD

M2A UPGRADE CER COOLING

Consultant Signature Only

Designed by/Concept par
F. HARRI

Drawn by/Dessiné par
RD/RP

PWGSC Project Manager/Administrateur de Projets TPSGC
KEN WENDT

Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architecture et de génie, TPSGC
P. PAUL

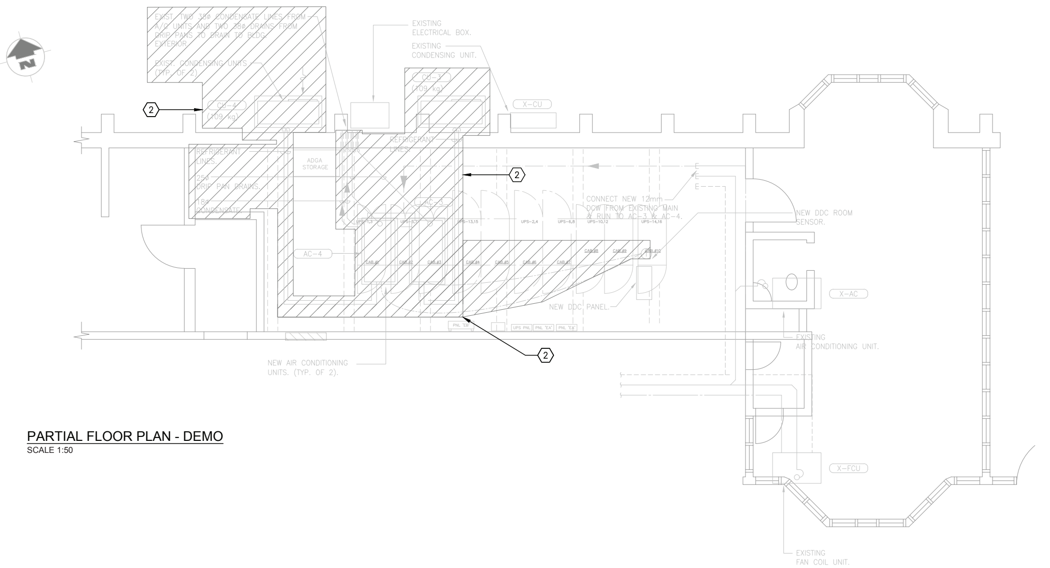
Drawing title/Titre du dessin

COVER SHEET, SITE PLAN AND DRAWING LIST

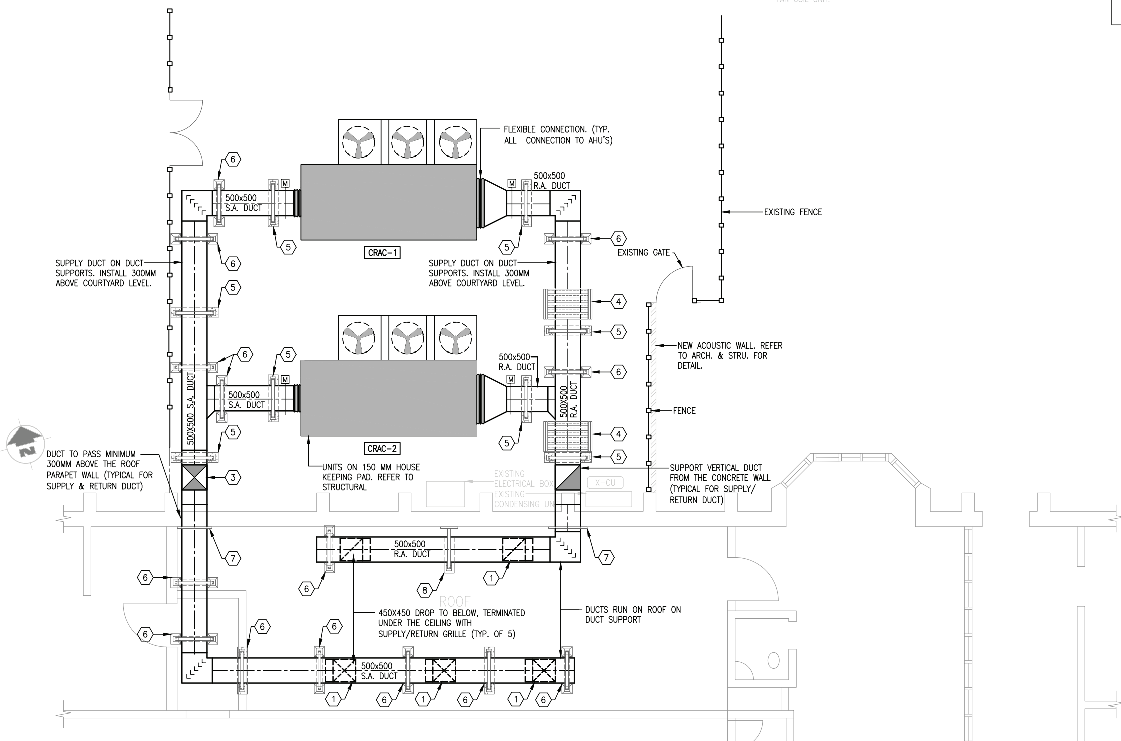
Project No./No. du projet	Sheet/Feuille	Revision no./ Le Révision no.
R.113047.001	M100	

PWGSC – A1 – 841X594

0 10 20 30 40 50 60 70 80 90 100mm



PARTIAL FLOOR PLAN - DEMO
SCALE 1:50



COURTYARD AND ROOF PLAN
SCALE 1:50

MECHANICAL LEGEND

X1-1
- EQUIPMENT TYPE ABBREVIATION
- ENERGY CENTRE
- EQUIPMENT DESIGNATION { EDH – ELECTRIC DUCT HEATER
- EQUIPMENT TAG

DIFFUSER/GRILLE DESIGNATION

EG-1 | 38 | 250x250
- DIFFUSER/GRILLE TYPE. (SEE SPEC.)
- AIRFLOW (L/S)
- DIFFUSER/GRILLE DESCRIPTOR (SIZE, LENGTH, NECK DIA., ETC. IN mm)

- KEYNOTE
- T – TEMPERATURE SENSOR
- S – SPEED CONTROLLER OR FAN SWITCH
- TH – COMBINATION TEMPERATURE AND HUMIDITY SENSOR
- F/A – FROM ABOVE
- F/B – FROM BELOW
- S/A – SUPPLY AIR
- O/A – OUTDOOR AIR
- R/A – RETURN AIR
- E/A – EXHAUST AIR
- c/w – COMPLETE WITH
- FD – FIRE DAMPER
- CE – CONNECT TO EXISTING
- SUPPLY DUCT DOWN
- SUPPLY DUCT UP
- RETURN OR EXHAUST DUCT DOWN
- RETURN OR EXHAUST DUCT UP
- SUPPLY DIFFUSER
- RETURN OR EXHAUST GRILLE
- U/C – DOOR UNDERCUT BY GENERAL CONTRACTOR.
- DG – DOOR GRILLE
- INTERNALLY ACOUSTIC LINED DUCT (25mm THICK)
- INTERNALLY ACOUSTIC LINED DUCT (50mm THICK)
- WIRE MESH SCREEN
- M – AUTOMATIC DAMPER (SEE SPECS).
- FLEXIBLE DUCT CONNECTION
- S/B – SECURITY BAR GRILLE
- ELBOW WITH TURNING VANES
- BALANCING DAMPER
- BDD – BACKFLOW DRAFT DAMPER
- F/D – FIRE DAMPER
- DUCT TRANSITION FROM RECTANGULAR TO ROUND
- OUTDOOR AIR OR SUPPLY AIR DUCT SECTION
- RETURN, EXHAUST OR RELIEF DUCT SECTION

GENERAL NOTES:

1. THE SITE CONDITION WILL NOT ALLEVIATE THE CONTRACTORS FROM THEIR RESPONSIBILITY TO EXECUTE THE CONTRACT DOCUMENTS TO THEIR FULL INTENT.
2. CONTRACTOR TO CONFIRM AND VERIFY EXISTING CONDITION, LOCATIONS, SIZES OF ALL MECHANICAL, ELECTRICAL, AND GENERAL CONTRACT WORK, PRIOR TO START OF WORK.
3. REMOVE AND RECONNECT ANY EXISTING PIPING, EQUIPMENT, ELECTRICAL, CONTROLS, ETC. TO COMPLETE NEW WORK.
4. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS. INSTALL UNITS PLUMB AND LEVEL, FIRMLY ANCHORED IN LOCATIONS INDICATED AND MAINTAIN MANUFACTURE'S RECOMMENDED CLEARANCES.
5. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
6. PROVIDE CORING, SCANNING, CUTTING AND PATCHING TO PERFORM WORK. PATCH AND MAKE GOOD ALL WORK. PRIOR TO CUTTING AND CORING, REQUIRES APPROVAL FROM STRUCTURAL ENGINEER.
7. THE DRAWINGS INDICATE THE GENERAL ROUTING OF THE SYSTEMS AND ARE DIAGRAMMATIC IN NATURE. THEY ESTABLISH SCOPE, MATERIAL AND INSTALLATION QUALITY AND ARE NOT DETAILED INSTALLATION INSTRUCTIONS. THE EXACT ROUTING OF ALL PIPING SYSTEMS IS TO BE COORDINATED ON SITE TO AVOID CONFLICTS WITH THE WORK OF OTHER DISCIPLINES.
8. DEMOLITION DRAWINGS ARE BASED ON THE RECORD DRAWINGS. ACTUAL DIMENSIONS AND LOCATIONS MAY BE DIFFERENT FROM WHAT IS SHOWN ON THESE DRAWINGS. CONTRACTOR TO ALLOW FOR SUCH VARIANCES IN THE TENDER PRICE.
9. LEGALLY DISPOSE OF ALL DEMOLISHED AND UNUSED MATERIALS SUCH AS DUCTWORK, PIPING, EQUIPMENT, ETC. TURN OVER ANY RE-USEABLE MATERIALS AT OWNER'S DISCRETION AND DECISION.
10. ALL OUTDOOR INSTALLED DUCTWORK SHALL BE "THERMADUCT" OR APPROVED EQUAL, SUPPORTED ON DUCT SUPPORTS IN ACCORD WITH THE SUPPLIER INSTALLATION REQUIREMENTS.
11. USE STANDARD RADIUS ROUND ELBOWS OR SQUARE ELBOWS WITH DOUBLE DEFLECTION TURNING VANES.

KEYED NOTES:

1. 450X450MM WELDED FLANGED DUCT SLEEVE FROM 4.8MM SHEET METAL, WITH 2X16ø BARS WELDED HORIZONTALLY & VERTICALLY TO SIDE WALLS, C/W TWO COATS OF ANTI-RUST PAINT & MOISTURE RESISTANT FINAL PAINT.
2. DEMOLISH THE EXISTING MECHANICAL EQUIPMENT, REFRIGERANT PIPING AND CONTROL SYSTEM. DEMOLISHING OF THE AC-3, AC-4, CU-3 AND CU-4 SHOULD BE DONE AFTER THE NEW HVAC SYSTEM HAS BEEN INSTALLED, TESTED, COMMISSIONED AND OPERATIONAL FOR ONE WEEK.
3. THE VERTICAL DUCT RISER AND THE TWO ELBOWS SHALL BE INTERNALLY LINED WITH STAINLESS STEEL LINER BY THE DUCT SUPPLIER, SPECIFICALLY DESIGNED FOR STEAM DISPERSION TUBE INSTALLATION. PROVIDE 20MM DRAIN CONNECTION AT THE BOTTOM OF THE LOWER ELBOW (BY THE DUCT MANUFACTURER) AND PIPE THRU A 75MM DEEP COPPER P-TRAP.
4. PROVIDE A 600MM WIDE BY 800MM LONG BRIDGE-STEP MADE FROM HOT DEEP GALVANIZED STEEL WITH ALUMINUM CHECKER PLATE ON THE BRIDGE AND HAND RAILS, TO BE USED FOR PASSING OVER THE DUCTWORK.
5. DUCT SUPPORT SYSTEM WITH HOT DEEP GALVANIZED BASE AND STRUCTURAL MEMBERS FOR SEISMICALLY RESTRAINING THE SUPPORT SYSTEM TO THE SLAB CONCRETE, PER OUTDOOR DUCT MANUFACTURER REQUIREMENT.
6. DUCT SUPPORT SYSTEM WITH POLYCARBONATE BASE AND HOT DEEP GALVANIZED STRUCTURAL MEMBERS PER OUTDOOR DUCT MANUFACTURER REQUIREMENT.
7. SEISMICALLY SUPPORT THE DUCT ON THE ROOF PARAPET WALL WITH HOT DEEP GALVANIZED STRUCTURAL MEMBERS.
8. SEISMICALLY SUPPORT THE DUCT ON THE ROOF PARAPET WALL WITH HOT DEEP GALVANIZED STRUCTURAL MEMBERS IN ONE SIDE AND POLYCARBONATE BASE ON OTHER SIDE SITTING ON THE ROOF. PROVIDE SUPPORT PADS UNDER THE BASE FOR ALL POLYCARBONATE BASES ON THE ROOF.

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

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

wsp

Revision/Revision	Description/Description	Date/Date
C	ISSUED FOR TENDER	21-03-31
B	ISSUED FOR 99% CD	21-01-11
A	ISSUED FOR 66% CD	20-12-10

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
MATSQUI INSTITUTION
ABBOTSFORD, BC
33344 KING ROAD

M2A UPGRADE CER COOLING

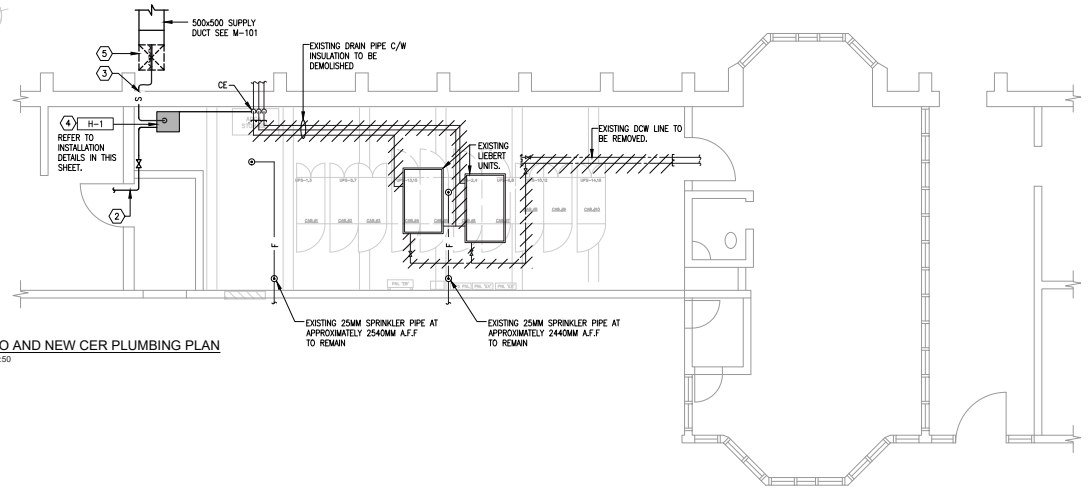
Consultant Signature Only

Designed by/Concept par: F. HARIRI
Drawn by/Dessine par: RD/RP
PWGSC Project Manager/Administrateur de Projets TPSGC: KEN WENDT
Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSGC: P. PAUL

Drawing title/Titre du dessin
DEMOLITION AND NEW COURTYARD AND ROOF PLAN

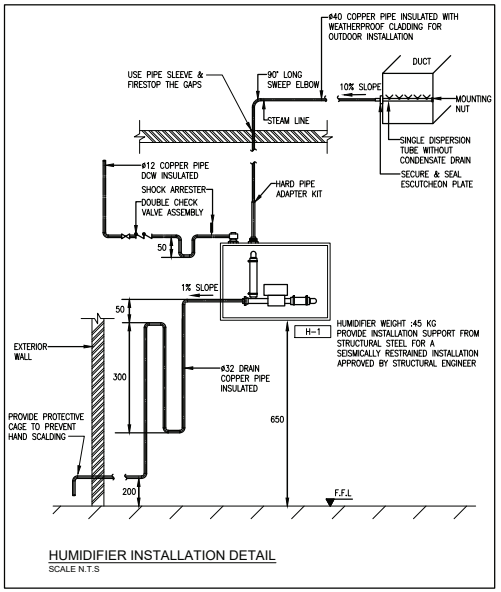
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.113047.001	M101	

PWGSC – A1 – 841X594



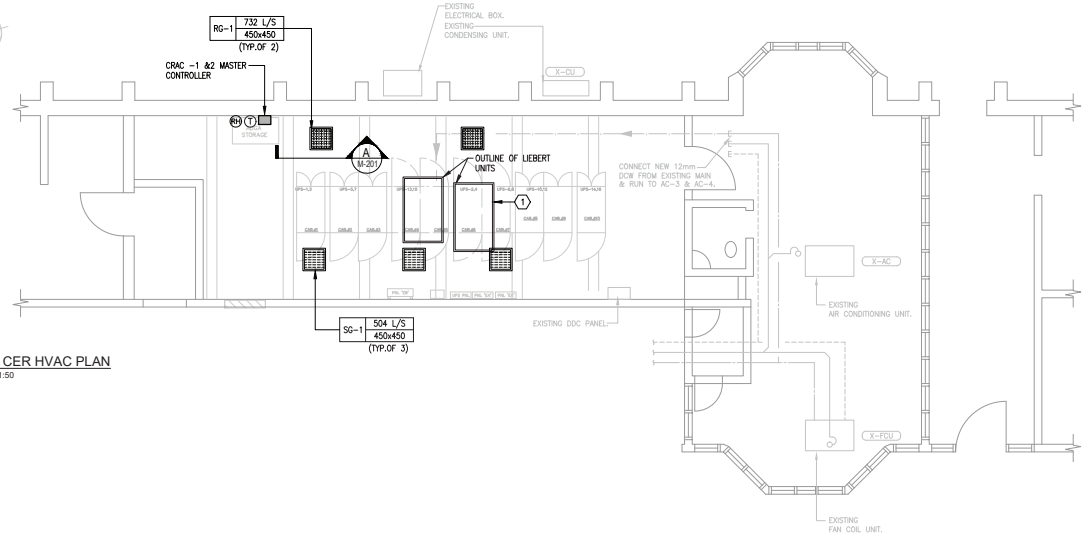
DEMO AND NEW CER PLUMBING PLAN

SCALE 1:50



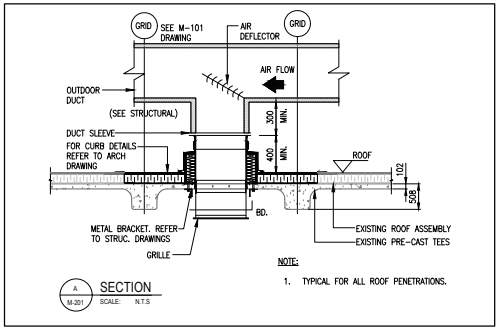
HUMIDIFIER INSTALLATION DETAIL

SCALE N.T.S



NEW CER HVAC PLAN

SCALE 1:50



KEYED NOTES:

1. DEMOLISH EXISTING LIEBERT UNITS AFTER NEW SYSTEM HAS BEEN INSTALLED, AND COMMISSIONED.
2. 12 MM NEW DCW FOR HUMIDIFIER H-1, TAKEN FROM WATER SUPPLY TO LAVATORY IN WASHROOM #116.
3. 40MM COPPER STEAM PIPE WITH 50MM INSULATION, WITH WEATHER RESISTANT JACKET, 10% SLOPED TOWARD HUMIDIFIER.
4. INSTALL AND PROVIDE DRAIN PIPING PER MANUFACTURER REQUIREMENTS. PIPE DRAIN TO OUTSIDE OF ROOM.
5. INSTALL STEAM DISPERSION TUBE IN THE SPECIAL VERTICAL STAINLESS STEEL-LINED-DUCT AS LOW AS POSSIBLE TO ALLOW FOR 10% STEAM PIPE SLOPE TOWARDS THE HUMIDIFIER, AND A MINIMUM OF 1500MM DISPERSION LENGTH BEFORE THE DUCT ELBOW DOWNSTREAM OF THE DUCT.

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

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

wsp

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA 43053 ENGINEER

Revision/ Revision	Description/Description	Date/Date
C	ISSUED FOR TENDER	21-03-31
B	ISSUED FOR 99% CD	21-01-11
A	ISSUED FOR 66% CD	20-12-10

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

MATSQUI INSTITUTION
ABBOTSFORD, BC
33344 KING ROAD

M2A UPGRADE CER COOLING

Consultant Signature Only

Designed by/Concept par
F. HARRI

Drawn by/Dessine par
RD/RP

PWGSC Project Manager/Administrateur de Projets TPSGC
KEN WENDT

Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architecture et de génie, TPSGC
P. PAUL

Drawing title/Titre du dessin

CER HVAC AND PLUMBING PLANS

Project No./No. du projet	Sheet/Feuille	Revision no./ Le Révision no.
R.113047.001	M201	

PWGSC – A1 – 841X594

0 10 20 30 40 50 60 70 80 90 100mm

SELF-CONTAINED PACKAGE UNIT								
Unit Tag	MANUFACTURER / MODEL NUMBER	UNIT LEVEL OPTIONS				CONTROLS AND VFD/STARTER		
		PRODUCT GROUP	ACTUAL AIRFLOW	UNIT SIZE	INTEGRAL BASE FRAME	FACTORY CONTROLS PACKAGE	CONTROLLER MOUNTING	CONTROLLER TYPE
			L/s	Tons				
CRAC-1	AAON/ RN 011 OR APPROVED EQUAL	OUTDOOR UNIT	1510	10	6IN. INTEGRAL BASE FRAME	VARIABLE VOLUME	UNIT MOUNTED	DDC WITH BACNET INTERFACE
CRAC-2	AAON/ RN 011 OR APPROVED EQUAL	OUTDOOR UNIT	1510	10	6IN. INTEGRAL BASE FRAME	VARIABLE VOLUME	UNIT MOUNTED	DDC WITH BACNET INTERFACE

SELF-CONTAINED PACKAGE UNIT										
FAN SECTION										
FAN APPLICATION	MOTOR HORSEPOWER PER FAN	TOTAL BRAKE HORSEPOWER	MOTOR VOLTAGE	DRIVE SERVICE FACTOR	OVERALL ESP	FAN TYPE	FAN SIZE AND TYPE	FAN QUANTITY	MOTOR INTERFACE OPTIONS	FAN WHEEL BALANCE
		kW	V/ph/Hz		Pa					
SUPPLY FAN	5 HP	2	208/3/60	DIRECT DRIVE	400	PLENUM	27IN. DD PLENUM, FULL	1	FACTORY INSTALLED VFD	INVERTER BALANCE WITH SHAFT GROUNDING
SUPPLY FAN	5 HP	2	208/3/60	DIRECT DRIVE	400	PLENUM	27IN. DD PLENUM, FULL	1	FACTORY INSTALLED VFD	INVERTER BALANCE WITH SHAFT GROUNDING

SELF-CONTAINED PACKAGE UNIT											
COIL SECTION							AIR-COOLED CONDENSING SECTION			AIR MIXING SECTION	
SYSTEM TYPE	ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	NET TOTAL CAPACITY	NET SENSIBLE CAPACITY	REFRIGERANT	NO. OF CIRCUITS	COMPRESSORS	CONDENSER FANS	FILTER 1	FILTER 2
	C	C	C	kW	kW					PLEATED MEDIA	PLEATED MEDIA
DX	24.1	19.4	9.6	33	23.5	R-410A	2	1 VARIABLE 1 ON/OFF	2 FANS WITH ECM	50 MM MERV 8	100 MM MERV 14
DX	24.1	19.4	9.6	33	23.5	R-410A	2	1 VARIABLE 1 ON/OFF	2 FANS WITH ECM	50 MM MERV 8	100 MM MERV 14

ACCESSORIES:
1- ENTHALPY CONTROLLED ECONOMIZER WITH MODULATING DAMPERS.
2- 21 KW HOT GAS REHEAT COIL.
3- CLOGGED FILTER SWITCH.
4-SINGLE POINT POWER DISCONNECT SWITCH.
5- ECM CONDENSER FAN HEAD PRESSURE CONTROL.
6- END RETURN, END DISCHARGE.
7- DOUBLE WALL CONSTRUCTION WITH R-13 FOAM INSULATION.
8-FULLY INTEGRAL CONTROLLER WITH BACNET INTERFACE.
9-MASTER CONTROLLER WITH KEYPAD, REMOTELY INSTALLED.
10-C/W ALL SENSORS.
11-FACTORY WIRED.
12-FACTORRY PROGRAMMED CONTROL SYSTEM.

STEAM HUMIDIFIER SCHEDULE														
EQUIPMENT TAG	QTY	MODEL	CAPACITY	AIR VOLUME	POWER INPUT	VOLTS/ PHASE/ HZ	STEAM DISPERSION MODEL	NON WETTING DISTANCE/ THROW	ENTERING AIR CONDITIONS	LEAVING AIR CONDITIONS	DUCT DIMENSION W X H	HEAT GAIN FROM ASSEMBLY & STEAM	WEIGHT	REMARKS
			KG/HR (LBS/HR)	L/S (CFM)	KW			MM (INCHES)	°C/%RH (°F/%RH)	°C/%RH (°F/%RH)	MM (INCHES)	°C (°F)	KG (LB)	
H-1	1	DRISTEEM VAPORMIST VM-12 OR APPROVED EQUAL	16.3 (36)	1510 (3200)	12	208/3/60	SINGLE DISPERSION TUBE-38MM (1.5") WITHOUT DRAIN	711 (28)	10.44/50% (50.8/50%)	10.80/73% (51.45/73%)	500 X 500 (20"X20")	0.36 (0.65)	63 (139)	C/W DISCONNECT SWITCH, INTEGRAL ELECTROIC CONTROLLER WITH REMOTE SET-POINTS INPUT, ALARM OUTPUT AND BACNET INTERFACE.

GRILLES, DIFFUSERS, & LOUVRES				
TAG No.	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES
SG	SUPPLY GRILLE	EH-PRICE	610	Aluminum, Adjustable 3/4" spacing single blades parallel to long dimension, duct mounted with flange
RG	RETURN GRILLE	EH-PRICE	80	Egg-Crate, Aluminum 0 degree 1/2" x1/2" x1/2" core, exposed duct boarder with duct mounting frame.

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

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

wsp

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — 43053 — 2021-03-31

Revision/ Revision	Description/Description	Date/Date
C	ISSUED FOR TENDER	21-03-31
B	ISSUED FOR 99% CD	21-01-11
A	ISSUED FOR 66% CD	20-12-10

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
MATSQUI INSTITUTION
ABBOTSFORD, BC
33344 KING ROAD

M2A UPGRADE CER COOLING

Consultant Signature Only

Designed by/Concept par
F. HARRI

Drawn by/Dessine par
RD/RP

PWGSC Project Manager/Administrateur de Projets TPSGC
KEN WENDT

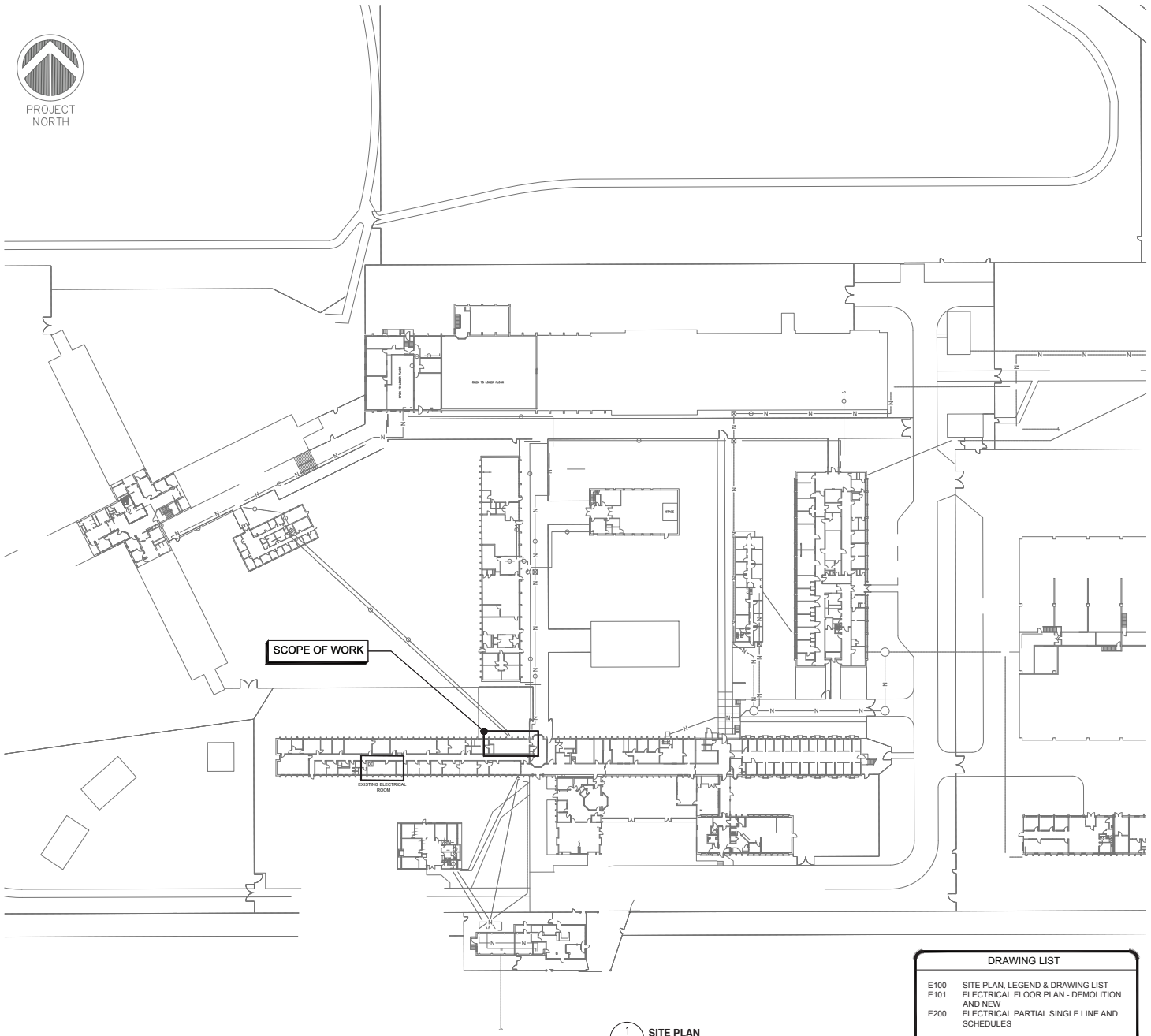
Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architecture et de génie, TPSGC
P. PAUL

Drawing title/Titre du dessin
MECHANICAL SCHEDULES + DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ Le Révision no.
R.113047.001	M301	

PWGSC – A1 – 841X594

0 10 20 30 40 50 60 70 80 90 100mm



LEGEND

SYMBOL	DESCRIPTION
	LUMINAIRE – 1' x 4' (305mm x 1220mm)
	LUMINAIRE – 2' x 4' (610mm x 1220mm)
	LUMINAIRE – 2' x 2' (610mm x 610mm)
	LUMINAIRE – 1/2' x 4' (152mm x 1220mm)
	TRACK LIGHTING
	LUMINAIRE – CONNECTED TO EMERGENCY POWER CIRCUIT
	LUMINAIRE – UNSWITCHED
	CEILING OR PENDANT MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED STEP LIGHT
	EXIT SIGN FIXTURE – WALL MOUNTED SINGLE FACE
	EXIT SIGN FIXTURE – WALL MOUNTED SINGLE FACE WITH DIRECTION AS INDICATED
	EXIT SIGN FIXTURE – WALL MOUNTED DOUBLE FACE WITH DIRECTIONS AS INDICATED
	EXIT SIGN FIXTURE – CEILING MOUNTED SINGLE FACE
	EXIT SIGN FIXTURE – CEILING MOUNTED SINGLE FACE WITH DIRECTION AS INDICATED
	EXIT SIGN FIXTURE – CEILING MOUNTED DOUBLE FACE WITH DIRECTIONS AS INDICATED
	EMERGENCY BATTERY PACK C/W RECEPTACLE
	EMERGENCY LIGHTING REMOTE HEADS
	LIGHTING POLE C/W 1 HEADS
	LIGHTING POLE C/W 2 HEADS
S	SINGLE POLE TOGGLE SWITCH
S^K	SINGLE POLE TOGGLE SWITCH, KEY OPERATED
S^P	SINGLE POLE TOGGLE SWITCH C/W PILOT LIGHT
S^3	SINGLE POLE TOGGLE SWITCH, 3 WAY
S^D	SINGLE POLE DIMMER SWITCH
S^{LV}	SINGLE POLE LOW VOLTAGE SWITCH
S^M	SINGLE POLE SWITCH C/W MOTION DETECTOR
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
R^R	REFRIGERATOR RECEPTACLE
R^R	RANGE RECEPTACLE
	15/20A RECEPTACLE
	DUPLEX RECEPTACLE SURGE SUPPRESSION
	DUPLEX RECEPTACLE ISOLATED GROUND
	DUPLEX RECEPTACLE SPLIT CIRCUIT
	DUPLEX RECEPTACLE – FLOOR MOUNTED
	SPECIAL PURPOSE OUTLET ((X) HARD WIRED)
	TELEPHONE OUTLET
	COMPUTER / DATA OUTLET
	COMBINATION TELEPHONE & DATA OUTLET C/W 1 TELEPHONE AND 1 DATA DROP UNLESS NOTED OTHERWISE FOR EXAMPLE: 2D = 2 DATA DROPS; 1T = 1 TELEPHONE DROP
	WALL MOUNTED TELEPHONE HANDSET
	CATV OUTLET
	TELEPHONE OUTLET – MOUNTED IN FLOOR BOX ASSEMBLY
F	FIRE ALARM BREAK GLASS STATION
ELR	END OF LINE RESISTOR
H	HEAT DETECTOR – RATE OF RISE AND FIXED TEMPERATURE
H^C	HEAT DETECTOR – RATE OF RISE AND FIXED TEMPERATURE CRAWLSPACE OR CEILING PLENUM SPACE
G	FIRE ALARM GONG
V	FIRE ALARM VISUAL SIGNAL STROBE LIGHT
V	FIRE ALARM VISUAL & AUDIO SIGNAL & STROBE LIGHT
P	PUBLIC ADDRESS SPEAKER – CEILING MOUNTED
P	PUBLIC ADDRESS SPEAKER – WALL MOUNTED
VC	SPEAKER VOLUME CONTROL
S	SMOKE DETECTOR – IONIZATION TYPE
S^R	SMOKE DETECTOR C/W RELAY CONTACT
	MOTOR STARTER – MAGNETIC
S^M	MOTOR STARTER – MANUAL
	MOTOR
	FUSED DISCONNECT SWITCH UNLESS NOTED OTHERWISE
??-??	MECHANICAL EQUIPMENT IDENTIFICATION TAG
J	JUNCTION BOX
	CLOCK
??	LUMINAIRE IDENTIFICATION TAG – LETTER DENOTES FIXTURE TYPE
PC	PHOTOCELL SENSOR (TYPE 1 OR AS INDICATED)
	PANELBOARD
	ELECTRIC RELAY PANEL
T	THERMOSTAT
	BASEBOARD OR RADIANT HEATER
D	MAGNETIC DOOR HOLDER – WALL / FLOOR MOUNTED
	SPRINKLER LOW PRESSURE SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	SPRINKLER ALARM VALVE
RP	EXISTING DEVICE TO BE RELPACE
CO	CONDUIT ONLY
AC	INDICATES DEVICE IS ABOVE COUNTER
WP	INDICATES DEVICE IS WEATHER PROOF
EXP	INDICATES DEVICE IS EXPLOSION PROOF
E	EXISTING DEVICE TO REMAIN
RM	EXISTING DEVICE TO BE REMOVED
REL	EXISTING DEVICE TO BE RELOCATED

DRAWING LIST

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

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

wsp

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA
SANJOT CHEEMA
29528
2021-03-31

Revision/ Révision	Description/Description	Date/Date
C	ISSUED FOR TENDER	21-03-31
B	ISSUED FOR 99% CD	21-01-13
A	ISSUED FOR 66% CD	20-12-10

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

MATSQUI INSTITUTION
ABBOTSFORD, BC
33344 KING ROAD

M2A UPGRADE CER COOLING

Consultant Signature Only
NOT APPLICABLE

Designed by/Concept par
SANJOT CHEEMA

Drawn by/Dessiné par
THANG CAO

PWGSC Project Manager/Administrateur de Projets TPSGC
KEN WENDT

Regional Manager, Architectural and Engineering Services/Gestionnaire régionale, Services d'architecture et de génie, TPSGC
P. PAUL

Drawing title/Titre du dessin

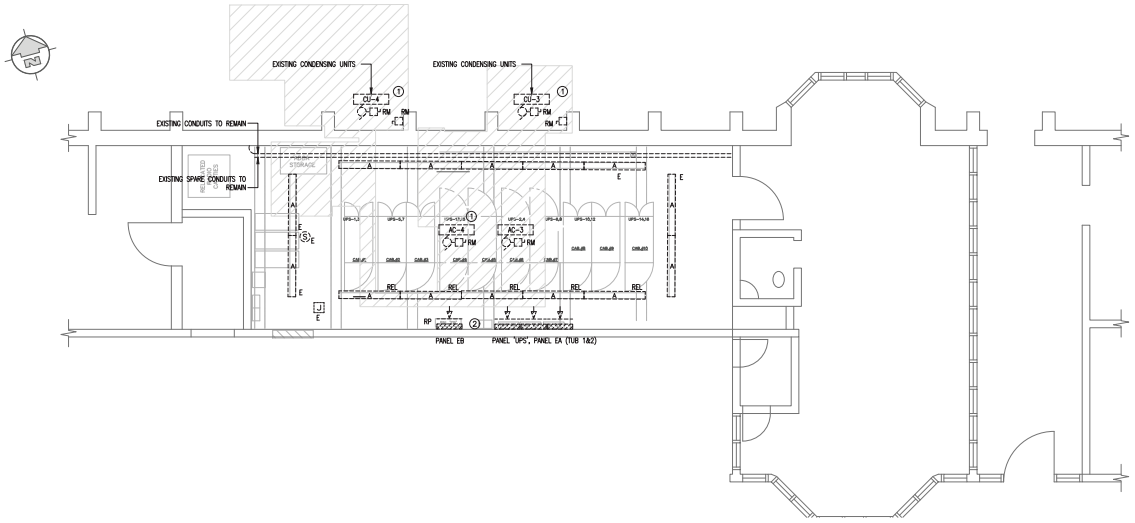
SITE PLAN, LEGEND AND DRAWING LIST

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.113047.001	E100	

181-09918-06_E100 / 3/31/2021 10:45 AM

PWGSC – A1 – 841X594

0 10 20 30 40 50 60 70 80 90 100mm



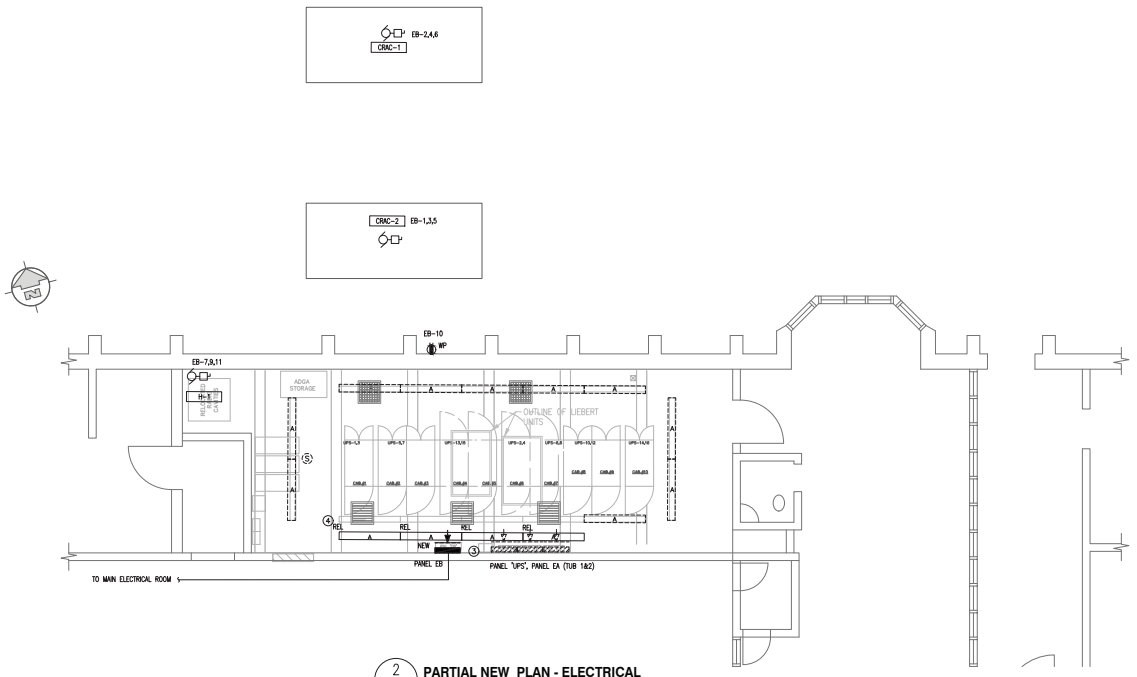
1 E101 **PARTIAL DEMOLITION PLAN - ELECTRICAL**
SCALE 1:50

REFERENCED NOTES:

1. DISCONNECT DEVICES INDICATED "RM" AND REMOVE ASSOCIATED RACEWAY, ALL ASSOCIATED CABLING, WIRING, CONNECTORS, DEVICES, WHIPS, MOUNTING HARDWARE ETC. BACK TO SOURCE AND MAKE SAFE..
2. DISCONNECT AND REMOVE EXISTING 'PANEL EB' COMPLETE WITH FEEDER CABLE FROM PANEL EA.
3. PROVIDE NEW 'PANEL EB' 225A-120/208V, 3PH, 4W, 60HZ C/W WITH 150A MAIN BREAKER AND INSTALLED AT THE SAME LOCATION, SUPPLIED WITH A RATED FEEDER FROM THE MAIN DISTRIBUTION BOARD. RELOCATE EXISTING LOADS TO NEW REPLACED PANEL AS INDICATED IN PANEL SCHEDULE.
4. DISCONNECT DEVICES INDICATED "REL" AND RELOCATE ASSOCIATED EXISTING LUMINAIRES ACCORDINGLY TO NEW LOCATION TO ACCOMMODATE NEW MECHANICAL INSTALLATION AND TO MAINTAIN LIGHTING LEVEL. (TYPICAL)

GENERAL NOTES:

1. EXTEND THE EXISTING CIRCUITS OVER TO THE NEW LOCATION.
2. PROTECT ALL EXISTING FIRE ALARM, POWER AND LIGHTING DEVICES TO REMAIN. BAG ALL SMOKE DETECTORS IN CEILING. PROVIDE ZONE ISOLATION FOR WORK DURING THE CONSTRUCTION PERIOD. DO NOT LEAVE AREA UNPROTECTED AND RESET BYPASS EACH AND EVERY NIGHT.
3. ALL SHUT DOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
4. ITEMS REMOVED SHALL BE TAKEN DOWN, WRAPPED AND STORED WITH ALL COMPONENTS ON SITE IN SPACE TO BE IDENTIFIED BY THE DEPARTMENTAL REPRESENTATIVE OTHERWISE ELECTRICAL CONTRACTOR SHALL DISPOSE OF THE MATERIAL FROM THE SITE IN ACCORDANCE WITH E.P.A. REGULATIONS.
5. PROVIDE APPROPRIATELY RATED FIRESTOP AT ANY LOCATIONS WHERE CABLES PASS THROUGH FIRE RATED STRUCTURES. PROVIDE THE MANUFACTURER'S INFORMATION ON THE FIRESTOPPING MATERIAL BEING USED AND THE APPROPRIATED CUL/UL INSTALLATION DRAWING USED FOR THE INSTALLATION. PROVIDE FIRESTOPPING INFORMATION LABEL NEAR FIRESTOPPED OPENING.
6. ALL INSTALLATIONS SHALL CONFORM TO THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE, B.C. BUILDING CODE.
7. COORDINATE LUMINAIRE INSTALLATION WITH MECHANICAL DRAWINGS. REFER TO MECHANICALS DRAWINGS FOR ELEVATION AND SECTION DETAILS.
8. COORDINATE LUMINAIRE INSTALLATION WITH THE INSTALLATIONS OF OTHER DISCIPLINES (ARCHITECTURAL, MECHANICAL, ETC.) ON SITE.
9. PROVIDE NEW PRINTED PANEL SCHEDULE WITH NEW ADDITIONS AS REQUIRED ON EXISTING PANELS.
10. PROVIDE ALL EXTERIOR ELECTRICAL DEVICES DISCONNECT SWITCHES, ETC SHALL BE RATED AS NEMA 4X.



2 E101 **PARTIAL NEW PLAN - ELECTRICAL**
SCALE 1:50

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

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

wsp

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA SANJOT CHEEMA 33528

2021-03-31

Revision/ Révision	Description/Description	Date/Date
C	ISSUED FOR TENDER	21-03-31
B	ISSUED FOR 99% CD	21-01-13
A	ISSUED FOR 66% CD	20-12-10

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
MATSQUI INSTITUTION
ABBOTSFORD, BC
33344 KING ROAD

M2A UPGRADE CER COOLING

Consultant Signature Only
NOT APPLICABLE

Designed by/Concept par
SANJOT CHEEMA

Drawn by/Dessiné par
THANG CAO

PWGSC Project Manager/Administrateur de Projets TPSGC
KEN WENDT

Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architecture et de génie, TPSGC
P. PAUL

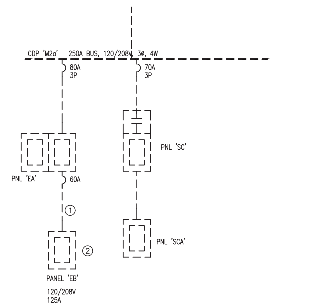
Drawing title/Titre du dessin
ELECTRICAL DEMOLITION AND NEW PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.113047.001	E101	

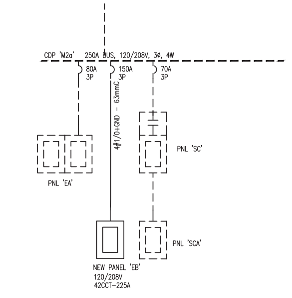
181-08918-06_E101_ / 3/31/2021 10:45 AM

PWGSC – A1 – 841X594

0 10 20 30 40 50 60 70 80 90 100mm



1 E200 EXISTING PARTIAL SINGLE LINE DIAGRAM
SCALE 1:50



1 E200 NEW PARTIAL SINGLE LINE DIAGRAM
SCALE 1:50

REFERENCED NOTES:

1. DISCONNECT AND REMOVE EXISTING CONNECTION FROM PANEL EA AND PANEL EB. REMOVE ALL THE ASSOCIATED JUNCTION BOXES, CONDUITS AND CABLES.
2. REMOVE EXISTING PANEL EB AND REPLACE WITH NEW PANEL.

NEW SURFACE MOUNTED PANEL EB

120/208V 3PH 4 W

MOUNTING: SURFACE	C/W 150A MAIN BREAKER									MAINS:225A
DESCRIPTION	BRK	#	LOAD	PHASE			LOAD	#	BRK	DESCRIPTION
				A	B	C				
CRAC-1	70A	1	6605				6605	2	70A	CRAC-2
		3	6605				6605	4		
		5	6605				6605	6		
H-1	40A	7	4000				1000	8	15A	HEAT TARCE
		9	4000				500	10	20A	MAINT. REC
		11	4000					12	20A	SPARE
SPARE	15A	13						14	15A	SPARE
SPARE	15A	15						16	15A	SPACE
SPARE	15A	17						18	15A	SPACE
SPARE	15A	19						20	15A	SPACE
SPACE	15A	21						22	15A	SPACE
SPACE	15A	23						24	15A	SPACE
SPACE	15A	25						26	15A	SPACE
SPACE	15A	27						28	15A	SPACE
SPACE	15A	29						30	15A	SPACE
SPACE	15A	31						32	15A	SPACE
SPACE	15A	33						34	15A	SPACE
SPACE	15A	35						36	15A	SPACE
SPACE	15A	37						38	15A	SPACE
SPACE	15A	39						40	15A	SPACE
SPACE	15A	41						42	15A	SPACE
TOTAL LOAD-WATT			31815				20815			TOTAL LOAD

MECHANICAL MOTORLIST

EQUIPMENT	QTY	DESCRIPTION	LOCATION	HP	LOAD kW	F.L.A. Amps	MCA	MOP	KVA	Volts	Ph.	CABLE/CONDUIT	DEVICE Supply	DEVICE Install	DEVICE Connect	STARTER Supply	STARTER Install	STARTER Connect	STARTER Type	DISC. SW. Supply	DISC. SW. Install	DISC. SW. Connect	CONTROL Supply	CONTROL Install	CONTROL Connect	CONTROL Type
AIR CONDITION UNIT																										
CRAC-1	1	OUTDOOR UNIT	OUTSIDE			55	59	70		208	3	3c#4 AWG+Gin 41mm	M	M	E	M	M	E	N-BUILT	M	M	E	M	M	M	DDC
CRAC-2	1	OUTDOOR UNIT	OUTSIDE			55	59	70		208	3	3c#4 AWG+Gin 41mm	M	M	E	M	M	E	N-BUILT	M	M	E	M	M	M	DDC
HUMIDIFIER UNIT																										
H-1	1	INSIDE	CRAC ROOM		12			40		208	3	3c#8AWG+G in 27mm	M	M	E	M	M	E	MAN	E	E	E	M	M	M	DDC

DEFINITIONS:
TC=TIME CLOCK
MAN = MANUAL STARTER
MAG = MAGNETIC STARTER C/W AUX STATUS CONTACTS
INT = CONTROL IS INTEGRAL TO UNIT (BY MANUFACTURER)
SW = WIRED TO SWITCH/STARTER
RSTAT = REVERSE ACTING THERMOSTAT
TSTAT = CONTROLLED BY THERMOSTAT
VFD = VARIABLE FREQUENCY DRIVE

2 E200 MECHANICAL SCHEDULE
SCALE N.T.S.

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

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

wsp

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — S. K. CHEEMA # 48528

2021-03-31

Revision/Révision	Description/Description	Date/Date
C	ISSUED FOR TENDER	21-03-31
B	ISSUED FOR 99% CD	21-01-13
A	ISSUED FOR 66% CD	20-12-10

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
MATSQUI INSTITUTION
ABBOTSFORD, BC
33344 KING ROAD

M2A UPGRADE CER COOLING

Consultant Signature Only
NOT APPLICABLE

Designed by/Concept par
SANJOT CHEEMA

Drawn by/Dessine par
THANG CAO

PWGSC Project Manager/Administrateur de Projets TPSGC
KEN WENDT

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
P. PAUL

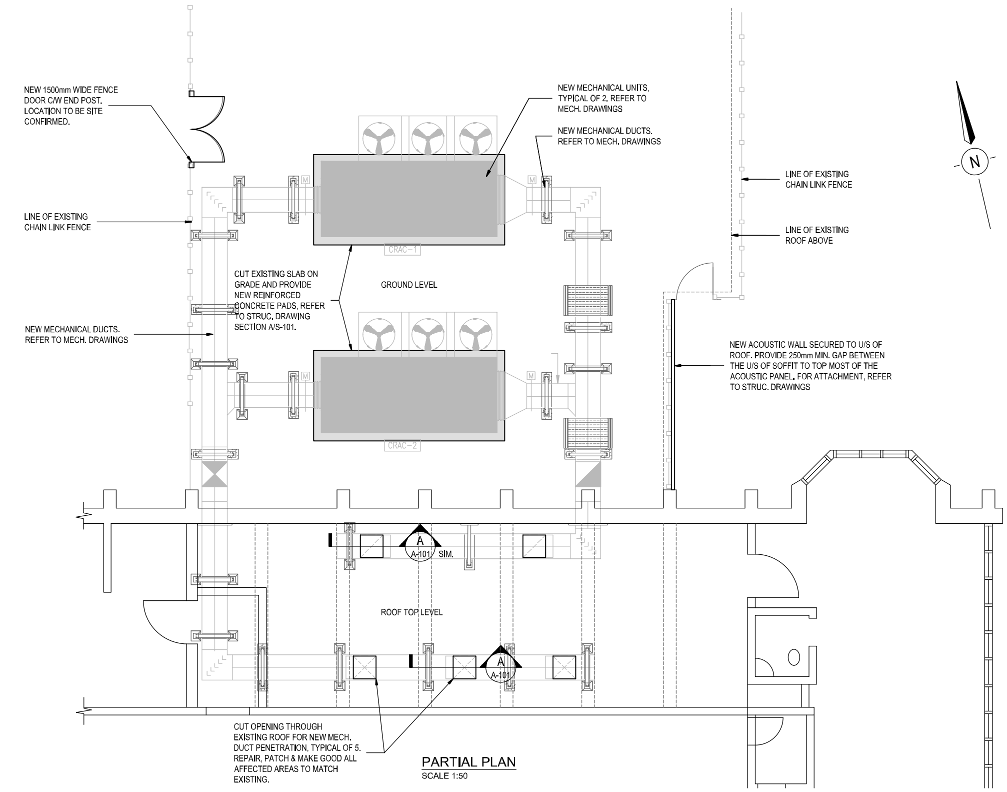
Drawing title/Titre du dessin
ELECTRICAL PARTIAL SINGLE LINE AND SCHEDULES

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.113047.001	E200	

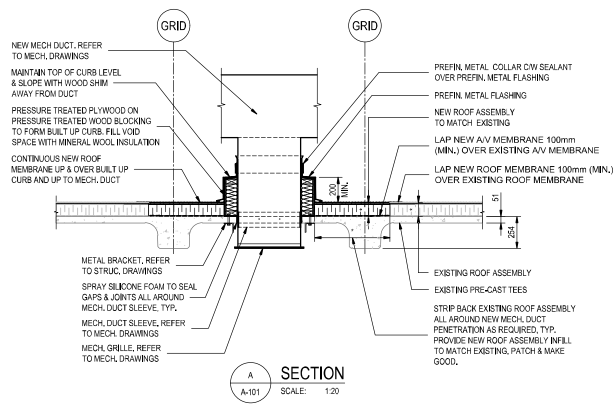
181-06918-06_E200 / 2/26/2021 5:16 PM

PWGSC – A1 – 841X594

0 10 20 30 40 50 60 70 80 90 100mm



PARTIAL PLAN
SCALE 1:50



A / A-101 SECTION
SCALE: 1:20

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

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

wsp

ARCHITECTURE 49

270-1075 WEST GEORGIA
VANCOUVER, BRITISH COLUMBIA, CANADA V6E 3C9
TEL: 1-604-736-5329 | WWW.ARCHITECTURE49.COM

REGISTERED ARCHITECT STELLA NICOLET BRITISH COLUMBIA
2021-03-31

SCALE 1:10
200 0 200 400 600
SCALE IN MILLIMETRES

SCALE 1:20
500 0 500 1000
SCALE IN MILLIMETRES

SCALE 1:50
1000 0 1000 2000 3000
SCALE IN MILLIMETRES

Revision/Révision	Description/Description	Date/Date
C	ISSUED FOR TENDER	21-03-31
B	ISSUED FOR 99% CD	21-01-11
A	ISSUED FOR 66% CD	20-12-10

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
MATSQUI INSTITUTION
ABBOTSFORD, BC
33344 KING ROAD
M2A UPGRADE CER COOLING

Consultant Signature Only

Designed by/Concept par
F. HARIRI

Drawn by/Dessiné par
RD/RP/LU

PWGSC Project Manager/Administrateur de Projets TPSGC
KEN WENDT

Regional Manager, Architectural and Engineering Services
P. PAUL

Drawing title/Titre du dessin
PLAN AND DETAIL

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.113047.001	A101	

PWGSC - A1 - 841X594

0 10 20 30 40 50 60 70 80 90 100mm

GENERAL

1. THIS IS A METRIC PROJECT. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS.
2. PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR COMPLETION OF THE WORK.
3. PRIOR TO CONSTRUCTION, REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH DRAWINGS PROVIDED BY ALL OTHER CONSULTANTS, AND WITH EXISTING CONDITIONS.
4. REPORT DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
5. VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.
6. DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.
7. DO NOT SCALE THESE DRAWINGS.
8. ALL SECTIONS, DETAILS, AND STATEMENTS NOTED AS "TYPICAL" APPLY TO LIKE/SIMILAR CONDITIONS IN THE STRUCTURE.
9. DRAWINGS SHOW COMPLETED STRUCTURE ONLY. THEY DO NOT SHOW TEMPORARY WORKS FOR WHICH THE CONTRACTOR IS RESPONSIBLE AND WHICH MAY BE REQUIRED FOR EXECUTION OF THE PROJECT. THE CONTRACTOR TO ESTABLISH CONSTRUCTION PROCEDURE AND SEQUENCE TO ENSURE SAFETY OF THE WHOLE STRUCTURE AND ALL ITS COMPONENTS DURING ERECTION.
10. MAKE ADEQUATE PROVISIONS FOR ALL LOADS ACTING ON THE STRUCTURE DURING ERECTION. PROVIDE TEMPORARY SHORING AND BRACING TO KEEP THE STRUCTURE PLUMB AND IN TRUE ALIGNMENT DURING CONSTRUCTION.
11. DESIGN OF ALL TEMPORARY WORKS TO BE CARRIED OUT BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN THE PLACE WHERE THE PROJECT IS LOCATED.
12. DESIGN OF NON-STRUCTURAL AND SECONDARY STRUCTURAL ELEMENTS (SUCH AS MISCELLANEOUS STEEL STAIRS, RAILINGS AND GUARDRAILS ETC.) IS THE RESPONSIBILITY OF SPECIALTY PROFESSIONAL ENGINEERS ENGAGED BY THE CONTRACTOR OR THE SUPPLIERS; IT IS NOT WITHIN THE SCOPE OF SERVICES PROVIDED BY DEPARTMENTAL REPRESENTATIVE AND WILL NOT BE REVIEWED BY DEPARTMENTAL REPRESENTATIVE.
13. CONSTRUCTION LOADS ON COMPLETED STRUCTURE NOT TO EXCEED DESIGN LOADS INDICATED ON DRAWINGS. FULL DESIGN LOADS MAY ONLY BE APPLIED AFTER THE CONCRETE REACHES ITS DESIGN STRENGTH.
14. STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH OTHER CONTRACT DOCUMENTS INCLUDING SPECIFICATIONS

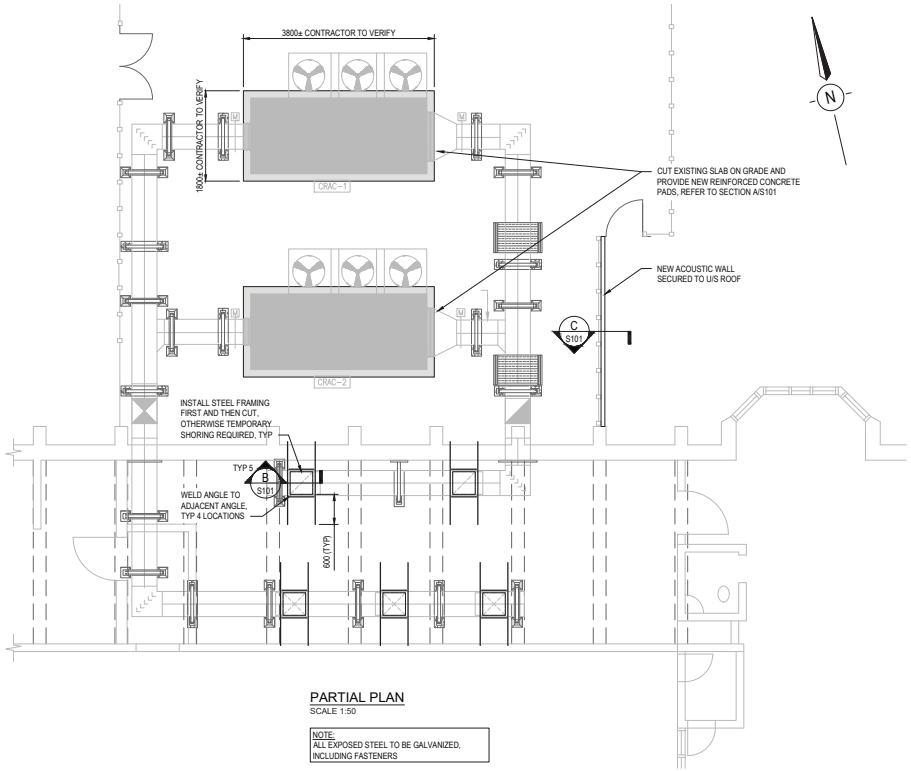
DESIGN CRITERIA

1. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2018 BRITISH COLUMBIA BUILDING CODE (BCBC AND 2015 NATIONAL BUILDING CODE), SUPPLEMENTED BY THE 2015 NATIONAL BUILDING CODE OF CANADA STRUCTURAL COMMENTARY.
2. ALL REFERENCED STANDARDS SHALL BE THE CURRENT EDITION UNLESS DIFFERENT EDITION IS REFERENCED BY THE APPLICABLE BUILDING CODE NOTED ABOVE.
3. THE VALUES FOR CLIMATIC DATA USED IN THE DETERMINATION OF DESIGN LOADS HAVE BEEN OBTAINED FROM THE 2018 BCBC AND THE 2015 NATIONAL BUILDING CODE FOR THE SPECIFIC LOCATION OF ABBOTSFORD.
4. BASED ON THE USE AND OCCUPANCY, THE BUILDING IS DESIGNED TO THE REQUIREMENTS OF A NORMAL IMPORTANCE CATEGORY.
5. SELF WEIGHT (SWT) IS DUE TO THE WEIGHT OF THE STRUCTURE ITSELF.
6. SUPERIMPOSED DEAD LOADS (SDL) ARE NON-STRUCTURAL DEAD LOADS DUE TO NON-STRUCTURAL TOPPINGS, FINISHES, SUSPENDED EQUIPMENT, PAVERS, SOIL ETC.
7. DEAD LOAD (DL) IS THE SELF WEIGHT OF THE STRUCTURE PLUS THE SUPERIMPOSED DEAD LOAD.
8. UNLESS OTHERWISE NOTED, DESIGN LOADS SHOWN ON DRAWINGS ARE SPECIFIED (UNFACTORED) LOADS, TO BE USED FOR ULS DESIGN. FOR SLS DESIGN, THESE LOADS CAN BE REDUCED BY MULTIPLYING WITH THE RATIO OF APPROPRIATE IMPORTANCE FACTORS Ie(SLS) / Ie(ULS) GIVEN BELOW.
9. IF ONLY ONE VALUE IS GIVEN FOR A LOAD, CONSIDER IT LIVE LOAD.
10. SNOW: Ss = 2.0 kPa; Sr = 0.3 kPa; Is (ULS) = 1.0; Is (SLS) = 0.9
    MINIMUM UNFACTORED SNOW LOAD = 1.90 kPa x Is
11. LATERAL LOADS IN THIS STRUCTURE DETERMINED BASED ON THE WIND AND SEISMIC DATA BELOW.
12. WIND : q50 = 0.44 kPa; Iw (ULS) = 1.0; Iw (SLS) = 0.75
    TERRAIN TYPE: ROUGH
13. SEISMIC (PARTS LOADING ONLY)

Sa (0.2) = 0.701	Cp = 1.0	IeFaSa(0.2) = 0.701
Sa (0.5) = 0.597	Ar = 2.5	
Sa(1.0) = 0.350	Rp = 2.5	
Sa(2.0) = 0.215	Ie = 1.0	
PGA = 0.306	SITE CLASSIFICATION = D (ASSUMED)	

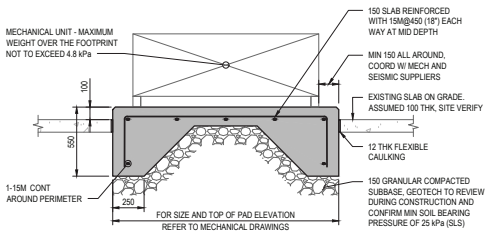
FOUNDATIONS

1. FOUNDATION DESIGN BASED ON ASSUMED BEARING PRESSURE OF 38 kPa AT ULS AND 25 kPa AT SLS.
2. GEOTECHNICAL ENGINEER TO BE RETAINED BY THE CONTRACTOR TO REVIEW GROUND CONDITIONS AND CONFIRM BEARING CAPACITY AND FROST PROTECTION.



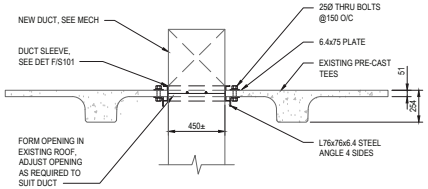
PARTIAL PLAN
SCALE 1:50

NOTE:
ALL EXPOSED STEEL TO BE GALVANIZED, INCLUDING FASTENERS

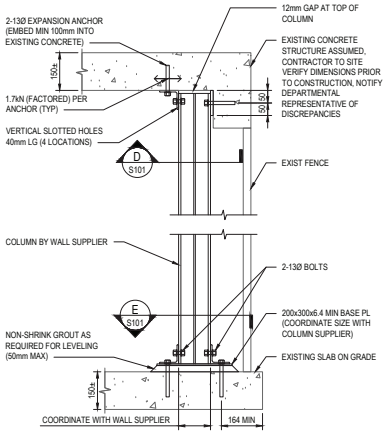


A S101 TYPICAL SECTION
SCALE: 1:20

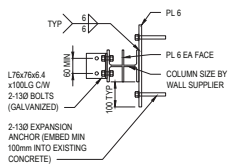
NOTE:
1. ALL REINFORCING EPOXY COATED
2. ALTERNATIVE FROST HEAVE PROTECTION MAY BE ACCEPTABLE IF SPECIFIED BY GEOTECHNICAL CONSULTANT



B S101 SECTION
SCALE: 1:20

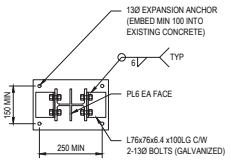


C S101 SECTION
SCALE: 1:10

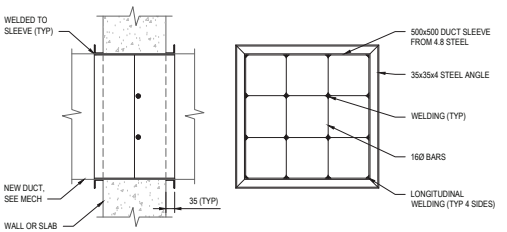


D S101 SECTION
SCALE: 1:10

NOTE:
ALL EXTERIOR STEEL TO BE GALVANIZED OR STAINLESS STEEL, INCLUDING FASTENERS



E S101 SECTION
SCALE: 1:10



F S101 SECTION
SCALE: 1:10

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

wsp
840 HOWE STREET, SUITE 1000
VANCOUVER BRITISH COLUMBIA CANADA V6Z 2M1
TEL.: 604-685-9381 | FAX: 604-683-8655 | WSP.COM

PROVINCE OF BRITISH COLUMBIA
R. MASTSCHUCH
PROFESSIONAL ENGINEER
22158
STRUCTURAL ENGINEER
2021.03.31

SCALE 1:10
0 200 400 600
200 SCALE IN MILLIMETRES

SCALE 1:20
0 500 1000
500 SCALE IN MILLIMETRES

SCALE 1:50
0 1000 2000 3000
1000 SCALE IN MILLIMETRES

Revision/ Emission	Description/Description	Date/Date
C	ISSUED FOR TENDER	21-03-31
B	ISSUED FOR 99% CD	21-01-11
A	ISSUED FOR 66% CD	20-12-11

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
MATSQUI INSTITUTION
ABBOTSFORD, BC
33344 KING ROAD

M2A UPGRADE CER
CER COOLING

Consultant Signature Only
NOT APPLICABLE

Designed by/Concept par
RM

Drawn by/Dessine par
PB

PWGSC Project Manager/Administrateur de Projets TPSGC
KEN WENDT

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

Drawing title/Titre du dessin
NOTES, PLAN, AND DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ Le Révision no.
R.113047.001	S101	

PWGSC – A1 – 841X594

0 10 20 30 40 50 60 70 80 90 100mm