Door and Frame Type

Drawing List - Mechanical				
eet Number	Sheet Name			
M100	MECHANICAL LEGEND AND DRAWING LIST			
M200	HVAC DEMOLITION - MAIN ROOF			
M201	HVAC NEW - MAIN ROOF			
M400	MECHANICAL DETAILS			
M500	MECHANICAL SCHEDULE			

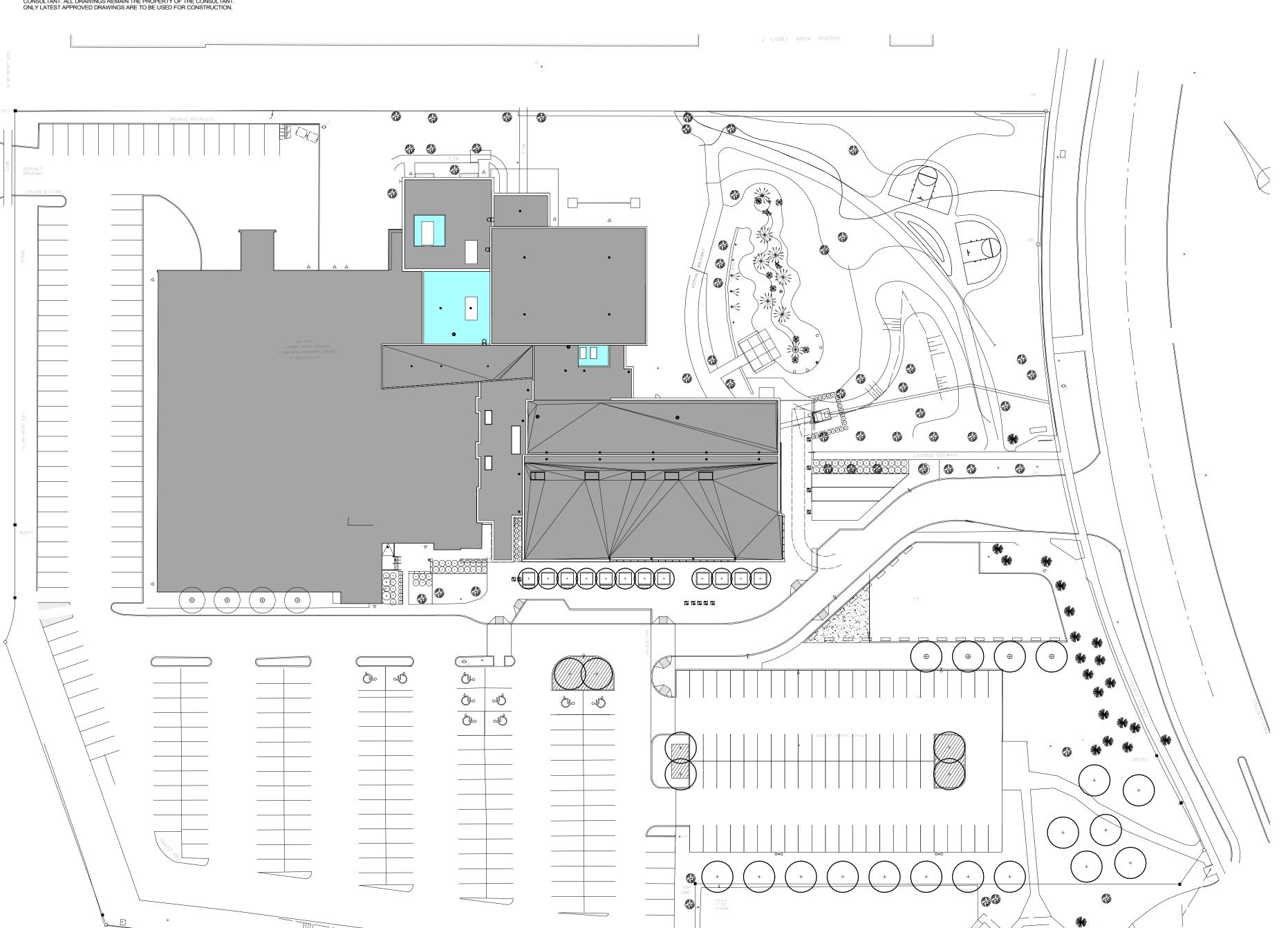
SITE PLAN GENERAL NOTES:

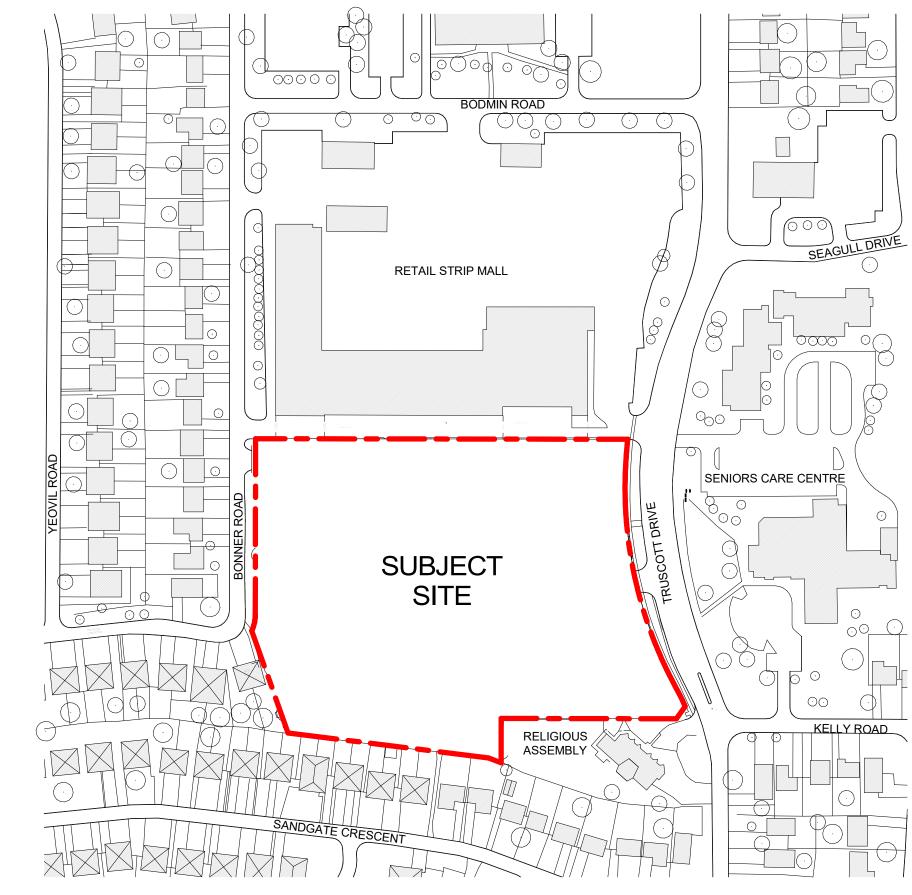
DR-2

- THE CONTRACT CONSISTS OF ALL WORK WITHIN THE 'EXTENT OF CONTRACT' LINE INDICATED ON THE SITE PLAN PLUS ANY WORK SPECIFICALLY NOTED OUTSIDE OF THAT LINE. ALL WORK DONE OUTSIDE OF THESE LIMITS MUST BE EXECUTED IN STRICT ACCORDANCE WITH THE STANDARDS OF THE MUNICIPALITY AND ALL OTHER AUTHORITIES HAVING ALL OUTSIDE OF THE MUNICIPALITY AND ALL OTHER AUTHORITIES HAVING JURISDICTION. MAKE GOOD AT NO ADDITIONAL COST TO THE OWNER OR MUNICIPALITY ANY DAMAGE CAUSED BY THIS CONSTRUCTION TO MATERIALS OR FINISHES BEYOND THE EXTENT OF CONTRACT LINE.
- CONTRACTOR IS TO RESTRICT ALL WORK, EQUIPMENT, AND MATERIALS STORAGE TO AREAS WITHIN 'EXTENT OF CONTRACT' LINE EXCEPT WHERE NOTED OTHERWISE. PRIMARY SITE ACCESS POINT & CONSTRUCTION PARKING IS TO BE CONFIRMED WITH BUILDER. NO PARKING IN MUNICIPALITY DIGIT OF MAY.
- LOCATE EXCAVATED MATERIALS & TOPSOIL PILES AS DIRECTED. AT COMPLETION OF PROJECT ANY EXCESS MATERIAL IS TO BE REMOVED AND AREA MADE GOOD TO ARCHITECT'S SATISFACTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF CONSTRUCTION TO FACILITATE AS-CONSTRUCTED
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL DRAWINGS FROM ALL DISCIPLINES. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED ON THE JOB. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT. ALL DRAWINGS REMAIN THE PROPERTY OF THE CONSULTANT. ONLY LATEST APPROVED DRAWINGS ARE TO BE USED FOR CONSTRUCTION.

SITE PLAN LEG	END:
Ls	POLE MOUNTED LIGHT STANDARD AS PER ELEC. DWGs
	PROPERTY LINE / EXTENT OF CONTRACT
	PART LOT / EASEMENT LINE
CC	BARRIER FREE CUT CURB
	AREA OF ROOFING WORK

ITEM	ONTARIO BUILDING CODE DATA	OBC REFERENCE		
1	BUILDING CLASSIFICATION			
	DESCRIBE EXISTING USE CONSTRUCTION INDEX HAZARD INDEX NOT APPLICABLE			11.2.1. T 11.2.1.1A T 11.2.1.1B TO N
2	ALTERATION TO EXISTING BUILDING IS ■ BASIC RENO □ EXTENSIVE RENO		11.3.3.1. 11.3.3.2.	
3	REDUCTION IN PERFORMANCE LEVEL			11.4.2.
	STRUCTURAL BY INCREASE IN OCCUPANT LOAD BY CHANGE OF MAJOR OCCUPANCY PLUMBING SEWAGE SYSTEM	☐ YES ☐ YES ☐ YES ☐ YES ☐ YES ☐ YES	■ NO ■ NO ■ NO ■ NO ■ NO	11.4.2.1. 11.4.2.2. 11.4.2.3. 11.4.2.4. 11.4.2.5.
4	COMPENSATING CONSTRUCTION STRUCTURAL BY INCREASE IN OCCUPANT LOAD BY CHANGE OF MAJOR OCCUPANCY PLUMBING SEWAGE SYSTEM	☐ YES ☐ YES ☐ YES ☐ YES ☐ YES ☐ YES	NONONONONONO	11.4.3.2. 11.4.3.3. 11.4.3.4. 11.4.3.5. 11.4.3.6.
5	COMPLIANCE ALTERNATIVES PROPOSED	☐ YES	■ NO	11.5.1.

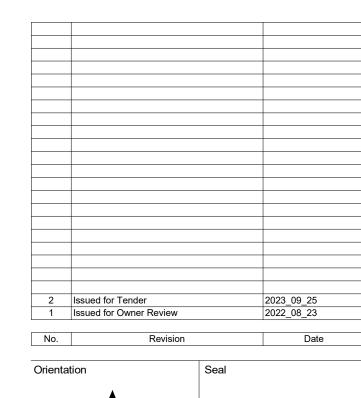




Context Plan

1:2000 A101

> **GENERAL ABBREVIATION LIST:** (NOTE: NOT ALL ABBREVIATIONS ARE USED ON THIS PROJECT) ACOUSTIC CEILING TILE INTUMESCENT COATING ALUMINUM COMPOSITE PANEL ADULT CHANGE STATION IMPREGNATED FIBREBOARD INSULATION ABOVE FINISHED FLOOR ALUMINUM ARCHITECTURAL AIR VAPOUR BARRIER JOINT JANITOR SHELF LIGHT FIXTURE LOW POINT BARRIER FREE BARRIER FREE PUSH BUTTON BLOCK BLOCKING BULLNOSE BOLLARD BRICK/BLOCK MIRROR
> MAXIMUM
> MECHANICAL
> MINIMUM
> MILLIMETERS
> MOP SINK
> METAL STUD
> METAL CEMENT BOARD
> CORNER GUARD
> COAT HOOK
> CAULK
> CEILING
> COLUMN
> CONCRETE
> CONSTRUCTION
> CONTINUOUS
> CARD READER
> COURSE
> CERAMIC TILE
> COMPLETE WITH
> CURTAIN WALL
> COMPOSITE WOOD PANELS NURSE CALL NOT IN CONTRACT NOT TO SCALE NC N.I.C. N.T.S. ON CENTRE OVERHEAD OPEN WEB STEEL JOIST PUSH BUTTON LOCK
> PANIC BUTTON
> PIECES
> PLASTIC LAMINATE
> PLYWOOD (VENEER CORE)
> PREFINISHED
> PREMANUFACTURED
> PRIVACY CURTAIN & ROD
> PULL STATION
> PAINT
> PAPER TOWEL DISPENSER
> PAPER TOWEL DISPENSER & WASTE PBL
> PB
> PCS
> PLAM
> PLY'WD
> PREFIN.
> PREMANL
> PRC
> PS DIAPER CHANGE STATION DIAMETER DIMENSIONS DIVISIONS DOWN DRAWINGS DOOR STOP ELECTRONIC CARD READER
> EMERGENCY CALL STATION
> ELECTRONIC HOLD OPEN
> ELECTRICAL
> EPOXY FLOORING
> EQUAL
> EXPOSED STRUCTURE
> EXTERIOR
> EYE WASH PRESERVATIVE PRESSURE TREATED RADIUS
> RETURN AIR
> ROOF ANCHOR
> ROOM BOOKING SYSTEM
> SHOWER ROD & CURTAIN
> RUBBER COVE BASE
> ROOF DRAIN
> RELOCATED
> REQUIRED
> ROBE HOOK FLOOR DRAIN
> FIRE EXTINGUISHER
> FIRE EXTINGUISHER CABINET
> FINISH
> FLOOR
> FIRE RESISTANCE RATING
> FOUNDATION
> FOLDING SEAT RELIEF SCUPPER DRAIN ROLLER SHADES LIQUID SOAP DISPENSER LIQUID SOAP DISPENSER
> SOAP DISPENSER
> SHOWER HEAD
> SHARPS CONTAINER
> SHOWER CONTROLS
> SHOWER HEAD & CONTROL
> SHOWER VALVE CONTROL BOX
> SANITARY NAPKIN DISPOSAL UNIT
> SPECIFIED GALVANIZED GRAB BAR GYPSUM WALL BOARD HAND DRYER
> HOSE BIBB
> HARDWOOD
> HOLLOW METAL
> HORIZONTAL
> HIGH POINT
> HIGH PRESSURE LAMINATE
> HAND RAIL
> HAIR DRYER
> HAND SANITIZER DISPENSER
> HOLLOW STEEL SECTION
> HEIGHT
> HEADWALL
> HYGENIC WALL CLADDING
> HAND WASH SINK HD
> HB
> HDWD
> HM
> HORIZ.
> HP
> HPL
> HR
> HRD
> HS
> HSS
> HT
> HW
> HWC
> HWS SPECIFIED
> SOLID POLYIMER SURFACE
> STAINLESS STEEL
> STEEL
> STONE
> STRUCTURAL
> SUSPENDED TACK BOARD TELEPHONE TOP OF STRUCTURE TOILET TISSUE HOLDER TOWEL BAR TYPICAL UNLESS NOTED OTHERWISE URINAL UNDERSIDE VAPOUR BARRIER VAPOUR PERMEABLE AIR BARRIER WHITE BOARD
> WHITE BOARD
> WALLTALKER' WHITE BOARD
> WATER CLOSET
> WOOD
> WASHROOM



MISSISSAUGA

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Project Information

Clarkson Community Centre Renewal - Phase 2

2475 Truscott Drive, Mississauga, ON

City of Mississauga

Drawing Title

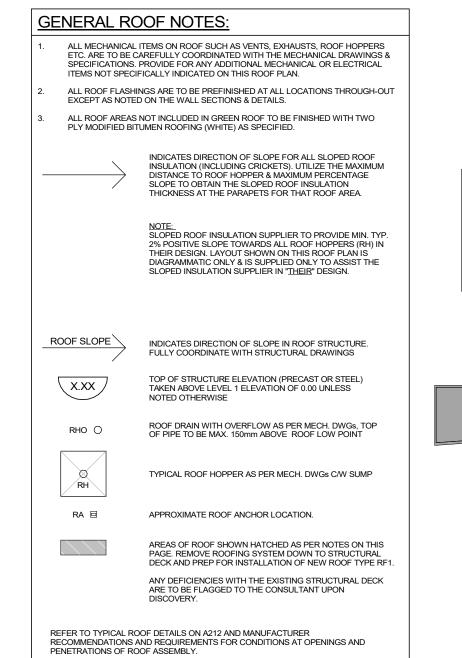
Site Plan

Project No Drawing No 2023_09_25 Drawn by 22015 A101 [^] Author

Site Plan 1:500

> Scale As indicated





GENERAL DEMOLITION NOTES:

ALL EXISTING ITEMS INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND ARE INDICATED AS ACCURATYLE AS POSSIBLE FROM INFORMATION PROVIDED AND OBSERVATIONS ON SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXCAT LOCATIONS OF ALL ITEMS PRIOR TO COMMENCEMENT OF DEMOLITION AND CONSTRUCTION ACTIVITIES.

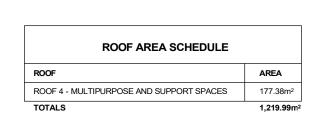
EXISTING ROOF LAYOUTS INCLUDING PENETRATIONS. ANCHORS AND OTHER ROOF MOUNTED EQUIPMENT AND ACCESSORIES ARE TO BE REVIEWED PRIOR TO COMMENCEMENT OF WORK. ITEMS OF CONCERN FOR COORDINATION ARE TO BE RAISED BY THE CONTRACTOR TO THE CONSULTANTS AT THE EARLIEST POSSIBLE DATE.

- THE CONTRACTOR SHALL, TOGETHER WITH ANY OF THE SUBCONTRACTORS INVOLVED IN THE WORK OF THIS CONTRACT, EXAMINE ALL SURFACES OR CONDITIONS RELATING TO THE WORK, IN ORDER TO DETERMINE THE CONDITIONS RELATING TO THE WORK, IN ORDER TO DETERMINE THE ACCEPTABILITY OF SUCH SURFACES OR CONDITIONS FOR THE WORK TO COMMENCE. REPORT IN WRITING TO THE CONSULTANT ANY OBSERVED DEFECTS, OR DEFICIENCIES THAT WOULD ADVERSELY AFFECT THE WORK. COMMENCEMENT OF THE WORK SHALL IMPLY ACCEPTANCE OF ALL SURFACE AND CONDITIONS.
- CUTTING AND PATCHING: INSPECT EXISTING CONDITIONS, INCLUDING ELEMENTS SUBJECT TO DAMAGE OR MOVEMENT DURING CUTTING AND PATCHING. AFTER UNCOVERING, INSPECT ALL CONDITIONS ADDECTING PERFORMANCE OF WORK. BEGINNING OF WORK MEANS ACCEPTANCE OF CONDITIONS. ALL CUTTING AND PATCHING WORK SHALL BE DONE UNDER THE SUPERVISION OF THE CONTRACTOR.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL EXISTING MECHANICAL AND ELECTRICAL SERVICE DISCONNECTIONS, DEMOLITION AND ALTERATIONS.

REMOVED AS REQUIRED TO INSTALL NEW/REMOVE
EXISTING. COORDINATE FULLY WITH WITH STRUCTURAL &
MECHANICAL DRAWINGS. MAKE GOOD ALL WORK.

EXISTING/DEMOLITION NOTES:

- REMOVE SCREEN AND SUPPORTS IN THEIR ENTIRETY AND PATCH TO MATCH EXISTING ROOFING. MAKE GOOD ALL WORK. ALL DIMENSIONS TO BE SITE VERIFIED.
- EXISTING ROOFS TO BE REMOVED IN SCOPE AREA AND REPLACED WITH ROOF TYPE RF1. ALL DIMENSIONS AND AREAS TO BE SITE VERIFIED. ALL MECHANICAL ITEMS ON ROOF, SUCH AS VENTS, EXHAUSTS, ROOF HOPPERS, ROOF DRAINS, ECT TO BE REMOVED AND REPLACED TO MATCH EXISTING.
- EXISTING ROOF TOP UNITS TO BE REMOVED AND REPLACED PER MECH DWGS. HVAC UNIT SUPPORT PER MECH DWGS.
- EXISTING SKYLIGHT TO BE REMOVED ENTIRETY AND REPLACED.

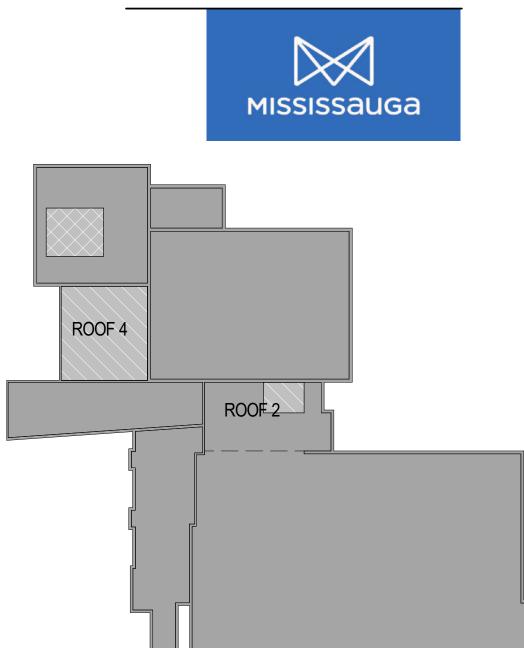


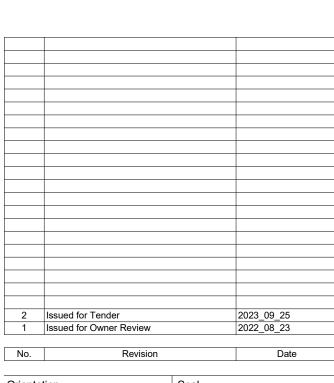
EXISTING ROOF TYPES (TO BE REMOVED) THE EXISTING BUILDING ROOF HAS NOT BEEN VERIFIED THROUGH INTRUSIVE FIELD REVIEW.

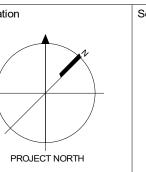
ROOF AREA 4: 4 PLY BUILT-UP ROOFING TAPERED FIBREBOARD 100MM RIGID INSULATION 50MM FIBREBOARD AVB WOOD DECKING

METAL DECKING

ROOF AREA 2: 4 PLY BUILT-UP ROOFING TAPERED FIBERBOARD 100MM RIGID INSULATION AVB 16MM TYPE X GYPSUM BOARD







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Project Information

Clarkson Community Centre Renewal - Phase 2

2475 Truscott Drive, Mississauga, ON

City of Mississauga

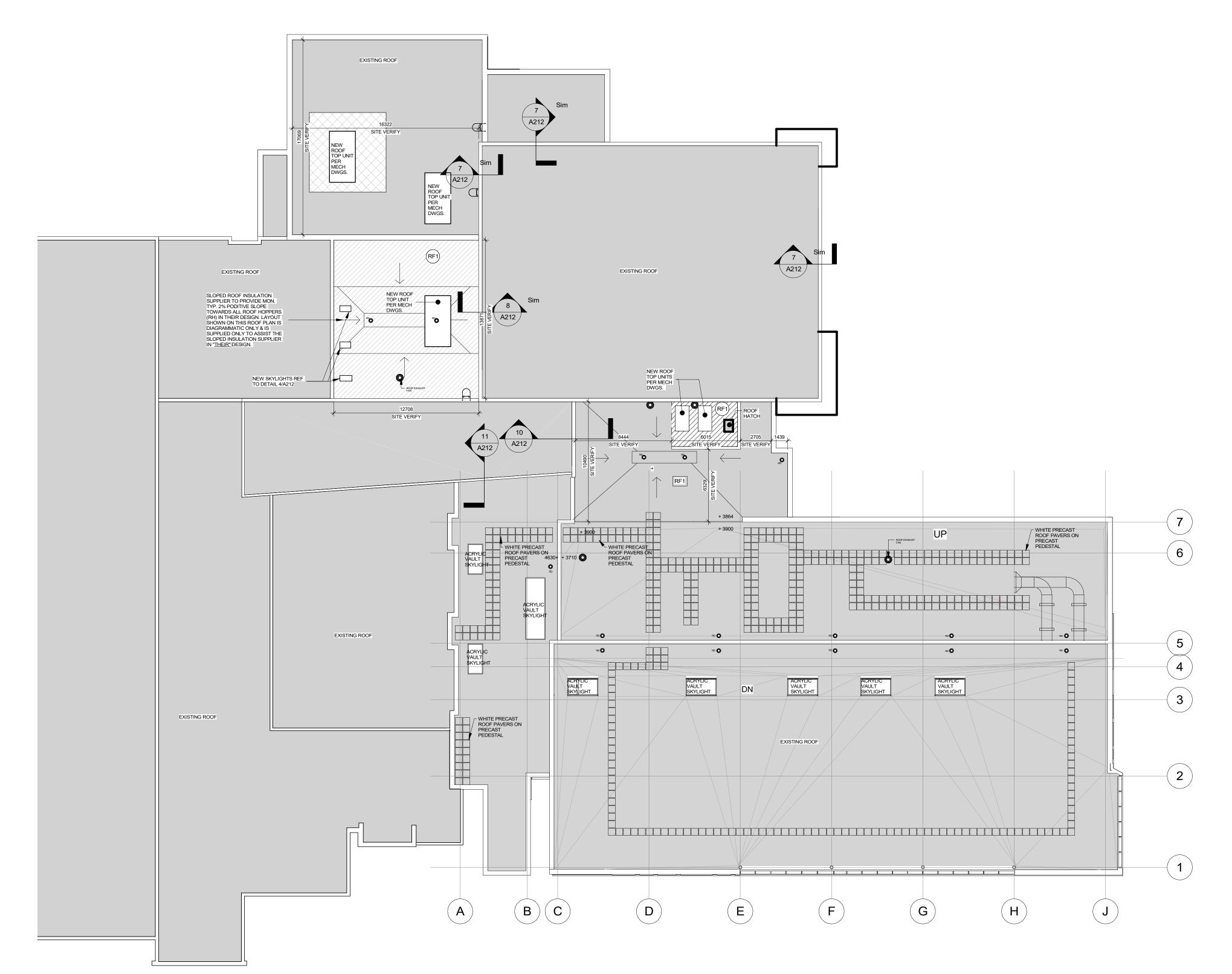
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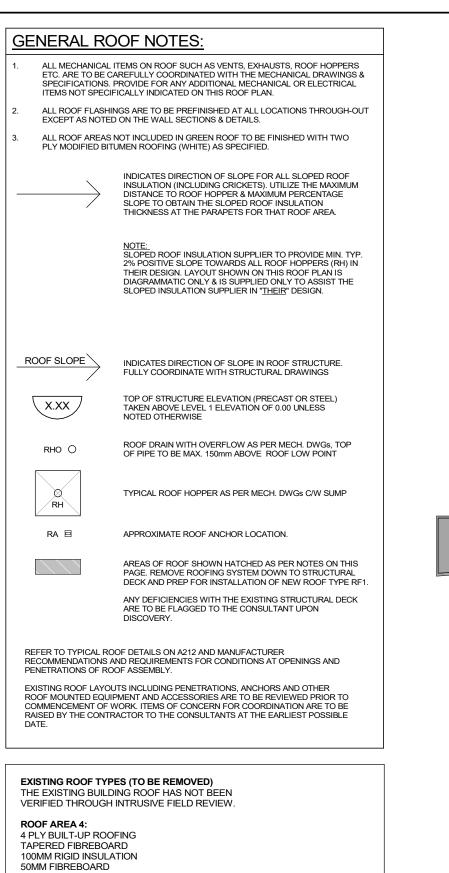
Roof Plan - Demo

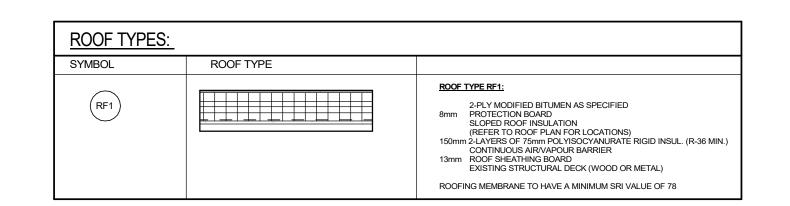
Date	2023_09_25	Project No	I
Drawn by	Author	22015	A
Scale	As indicated		_

As indicated

Roof Plan



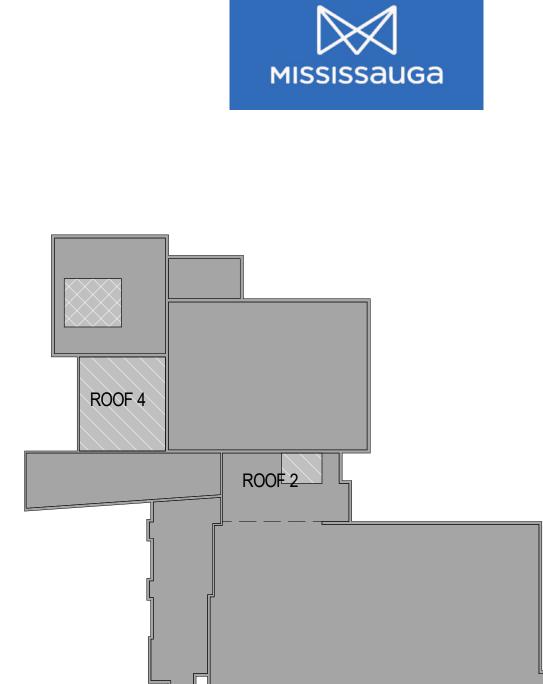


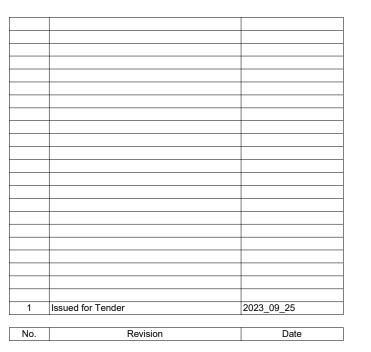


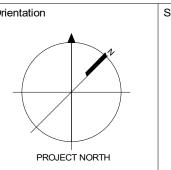
WOOD DECKING

ROOF AREA 2: 4 PLY BUILT-UP ROOFING TAPERED FIBERBOARD 100MM RIGID INSULATION 16MM TYPE X GYPSUM BOARD

METAL DECKING







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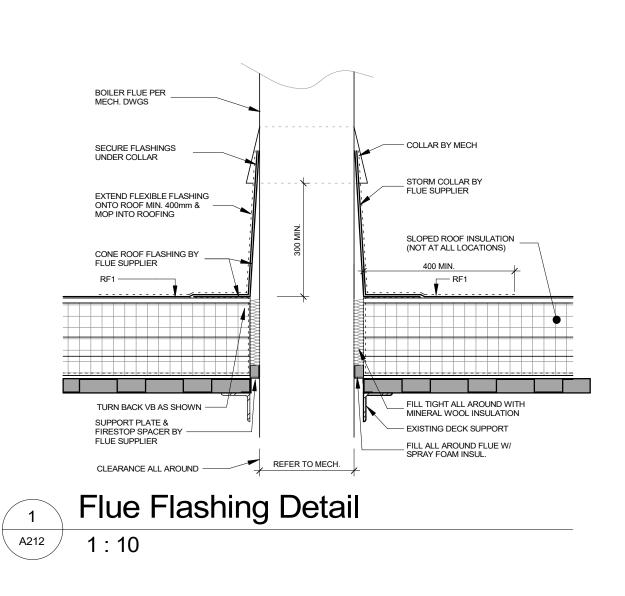
Clarkson Community Centre Renewal - Phase 2

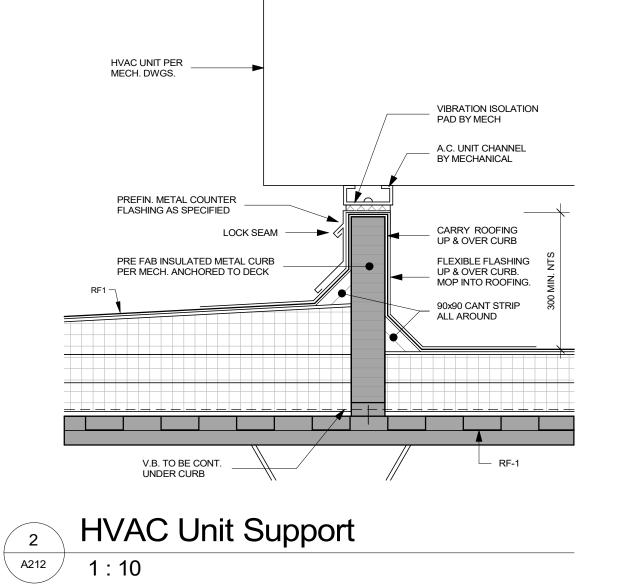
2475 Truscott Drive, Mississauga, ON

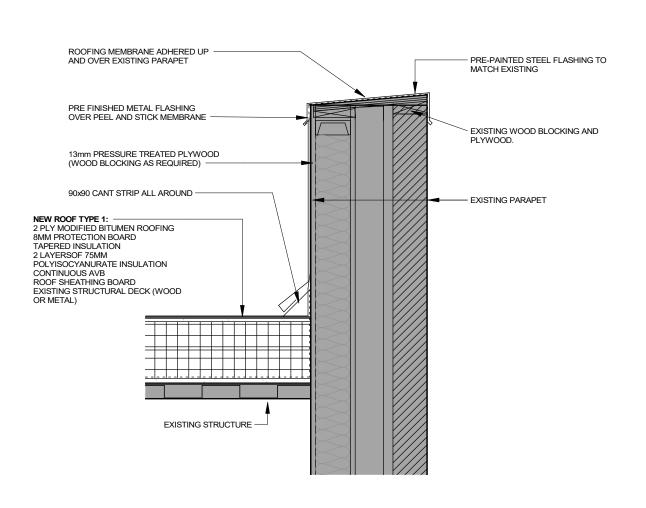
Project No Drawing No 2023_09_25 Drawn by [^] Author Scale

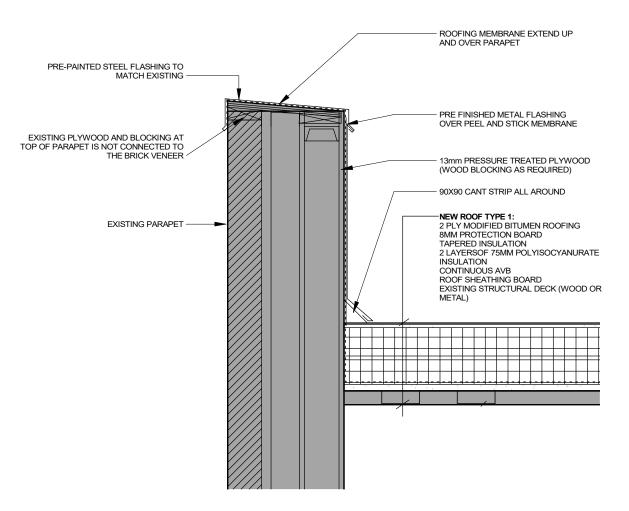
As indicated

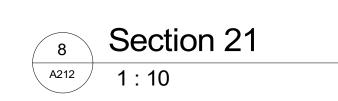


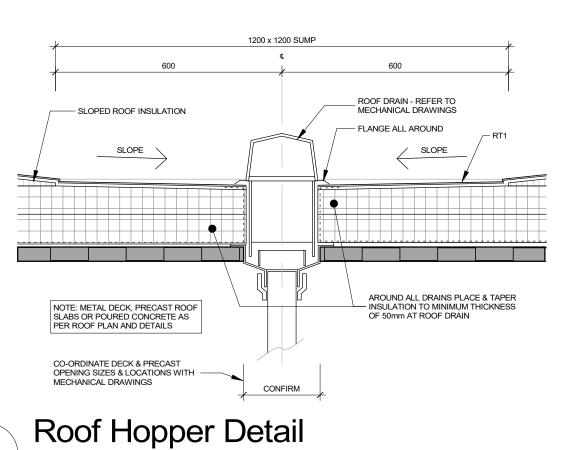


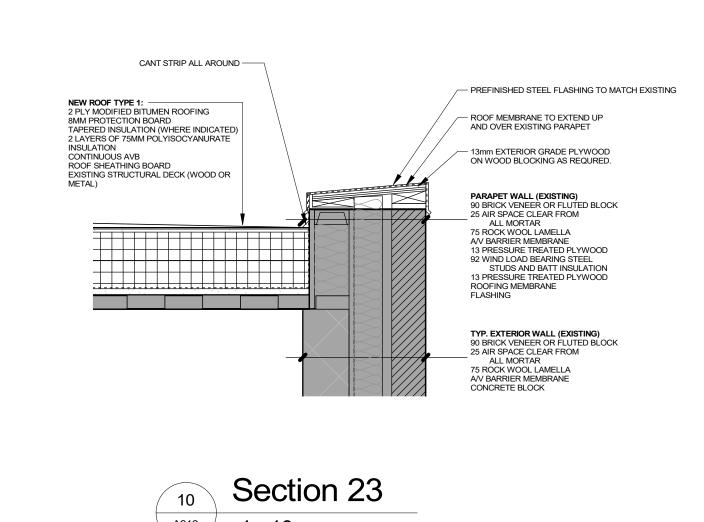


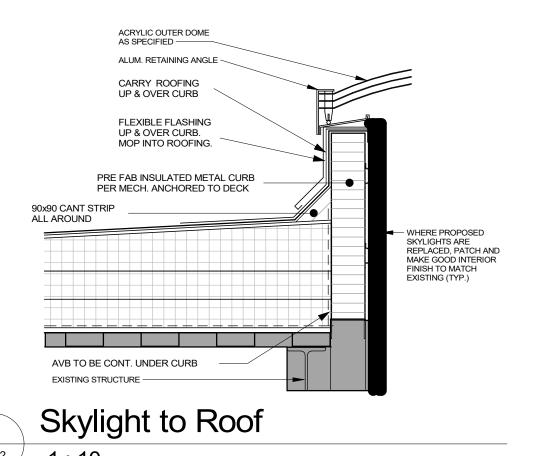




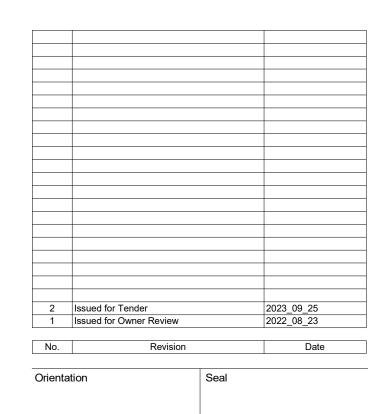








Section 20

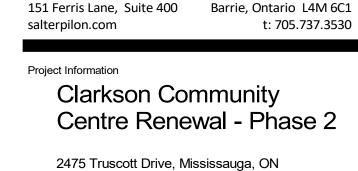


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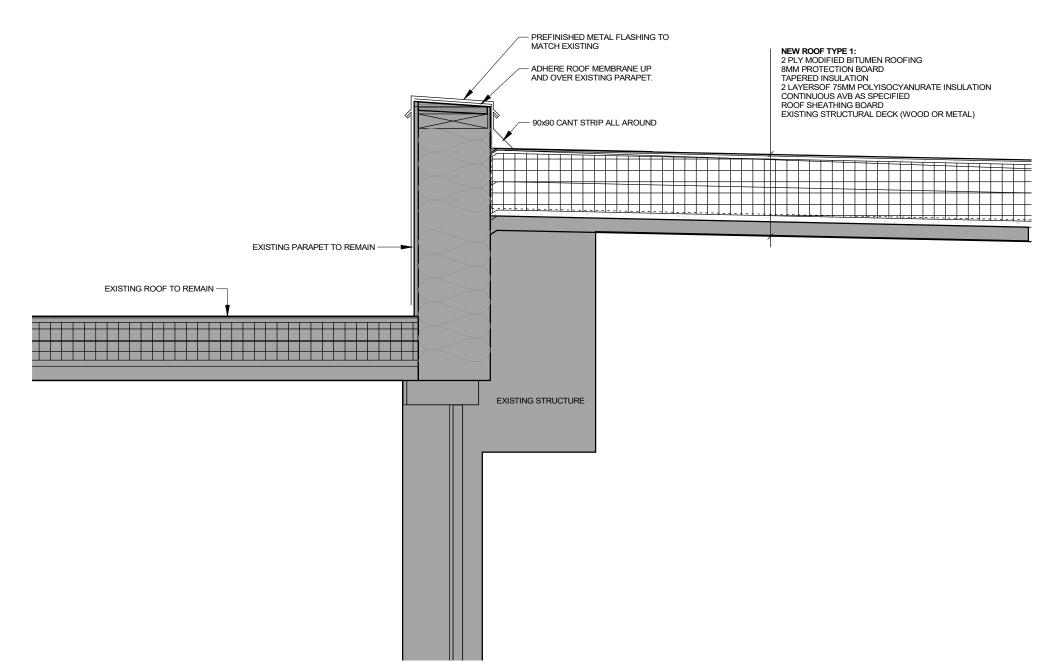
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City of Mississauga

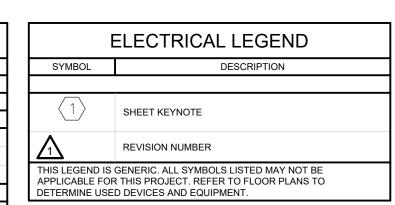
Drawing Title Roof Plan Details

Project No Drawing No 2023_09_25 Drawn by Author Scale 1:10





SYMBOL	DESCRIPTION
	LINETYPES
	- NEW WORK
	- WORK TO BE DEMOLISHED, OR REMOVED - EXISTING MATERIAL/EQUIPMENT/SERVICES TO F
E	ABBREVIATIONS EXISTING TO REMAIN
R ER	EXISTING TO BE DEMOLISHED/REMOVED EXISTING IN RELOCATED POSITION
RR	REMOVE AND RELOCATE
C W	CEILING MOUNTED CONNECTION WALL MOUNTED CONNECTION
F E	FLOOR MOUNTED CONNECTION CENTRE LINE
AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE
O/C	OVER COUNTER
U/C U/F	UNDER CABINET UNDER RAISED FLOOR
CCT CTE	CIRCUIT CONNECT TO EXISTING
AFCI GFCI	ARC FAULT CIRCUIT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
IG TL	ISOLATED GROUND TWIST LOCK
TR WG	TAMPER RESISTANT WIRE GUARD
WP R/I	WEATHER PROOF ROUGH-IN ONLY
NIC	NOT IN CONTRACT
SIM. TYP.	SIMILAR TO TYPICAL
BCBC	ABBREVIATIONS - CODES AND STANDARDS BRITISH COLUMBIA BUILDING CODE
CEC	CANADIAN ELECTRICAL CODE ANNOTATIONS
CL	CLOSET
WR	PLUMBING PLUMBING
PTP PSC	ELECTRONIC TRAP PRIMER PLUMBING SENSOR CONTROL (TOUCHLESS FAU
T	HVAC THERMOSTAT OR TEMPERATURE SENSOR
T	
FFH	ELECTRIC BASEBOARD HEATER (BBH) FORCED FLOW HEATER
ERV HRU	ENERGY RECOVERY VENTILATOR HEAT RECOVERY UNIT
MUA	MAKE-UP AIR UNIT CONDUIT AND BOXES
	CONDUIT WITH END BUSHING
—∘ —∋	CONDUIT UP CONDUIT DOWN
—→ JB	CONDUIT CONTINUES JUNCTION BOX
PB	PULL BOX
НН	HAND HOLE
DW	CONNECTIONS TO EQUIPMENT DISHWASHER
FR MW	FRIDGE
HD	HAND DRYER. ALLOW UP TO 208V-1PH-20A
△	1-PHASE DIRECT CONNECTION OUTLET AS NOT 3-PHASE DIRECT CONNECTION OUTLET AS NOT
\boxtimes	SYSTEM FURNITURE WALL FEED FOR POWER A TELECOMMUNICATIONS UNLESS NOTED OTHER 'C' ADJACENT TO SYMBOL DENOTES CEILING FE
	ADJACENT TO SYMBOL DENOTES FLOOR FEED. ADJACENT TO 3-PHASE DIRECT CONNECTION,
W	DENOTES WALL SYSTEM FURNITURE FEED FOR POWER AND COMMUNICATIONS.
9	CONNECTION TO SINGLE PHASE MOTOR, HP (K) NOTED. PROVIDE LOCAL DISCONNECT. THREE PHASE MOTOR, HP (KW) AS NOTED. PRO
<u>Ф</u>	LOCAL DISCONNECT. CLOCK.
	DISTRIBUTION EQUIPMENT
	TRANSFORMER, PLAN VIEW SURFACE MOUNTED LIGHTING AND RECEPTACE
	PANELBOARD RECESSED RECEPTACLE AND LIGHTING PANEL
	DISTRIBUTION PANELBOARD
다 	DISCONNECT SWITCH FUSED DISCONNECT SWITCH
С	CONTACTOR LOOSE STARTER. COORDINATE STARTING
VED	CHARACTERISTIC WITH EQUIPMENT REQUIREM ADJACENT TO STARTER, DENOTES VARIABLE
VFD	FREQUENCY DRIVE POWER RECEPTACLES AND BOXES
	120V U-GROUND DUPLEX RECEPTACLE.
	120V U-GROUND 20A DUPLEX RECEPTACLE. 120V U-GROUND DUPLEX RECEPTACLE -
-	
-	AUTOMATICALLY CONTROLLED (ASHRAE 90.1-20 8.4.2).
	AUTOMATICALLY CONTROLLED (ASHRAE 90.1-20 8.4.2). 120V U-GROUND DUPLEX RECEPTACLE - HALF CONTROL OF THE PROPERTY OF THE PROPER
₩	AUTOMATICALLY CONTROLLED (ASHRAE 90.1-2: 8.4.2). 120V U-GROUND DUPLEX RECEPTACLE - HALF CRECEPTACLE AUTOMATICALLY CONTROLLED (A 90.1-2013, 8.4.2). MANUALLY CONTROLLED SPLIT RECEPTACLE
-	AUTOMATICALLY CONTROLLED (ASHRAE 90.1-2: 8.4.2). 120V U-GROUND DUPLEX RECEPTACLE - HALF CRECEPTACLE AUTOMATICALLY CONTROLLED (A 90.1-2013, 8.4.2).
⊕	AUTOMATICALLY CONTROLLED (ASHRAE 90.1-20.8.4.2). 120V U-GROUND DUPLEX RECEPTACLE - HALF OR RECEPTACLE AUTOMATICALLY CONTROLLED (A.90.1-2013, 8.4.2). MANUALLY CONTROLLED SPLIT RECEPTACLE. 120V U-GROUND QUAD RECEPTACLE. SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN. 120V U-GROUND DUPLEX RECEPTACLE MOUNTED.
⊕ ⊕ ⊕	AUTOMATICALLY CONTROLLED (ASHRAE 90.1-20 8.4.2). 120V U-GROUND DUPLEX RECEPTACLE - HALF C RECEPTACLE AUTOMATICALLY CONTROLLED (A 90.1-2013, 8.4.2). MANUALLY CONTROLLED SPLIT RECEPTACLE 120V U-GROUND QUAD RECEPTACLE. SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN. 120V U-GROUND DUPLEX RECEPTACLE MOUNTE ABOVE COUNTER TOP OR AS INSTRUCTED ON STRUCTED ON STRUCTED ON STRUCTED IN FLOOR BOX
♣♦♦♦♦	AUTOMATICALLY CONTROLLED (ASHRAE 90.1-20.8.4.2). 120V U-GROUND DUPLEX RECEPTACLE - HALF OR RECEPTACLE AUTOMATICALLY CONTROLLED (A.90.1-2013, 8.4.2). MANUALLY CONTROLLED SPLIT RECEPTACLE. 120V U-GROUND QUAD RECEPTACLE. SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN. 120V U-GROUND DUPLEX RECEPTACLE MOUNTE ABOVE COUNTER TOP OR AS INSTRUCTED ON SINGLE RECEPTACLE IN FLOOR BOX ADJACENT TO RECEPTACLE, INDICATES RECEP
♣♦♦♦♦	AUTOMATICALLY CONTROLLED (ASHRAE 90.1-20 8.4.2). 120V U-GROUND DUPLEX RECEPTACLE - HALF OR RECEPTACLE AUTOMATICALLY CONTROLLED (A 90.1-2013, 8.4.2). MANUALLY CONTROLLED SPLIT RECEPTACLE 120V U-GROUND QUAD RECEPTACLE. SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN. 120V U-GROUND DUPLEX RECEPTACLE MOUNTE ABOVE COUNTER TOP OR AS INSTRUCTED ON SINGURED ON SINGURED ON SINGURANT OR RECEPTACLE IN FLOOR BOX ADJACENT TO RECEPTACLE, INDICATES RECEPTACHE WITH ONE TYPE A AND ONE TYPE COMPLETE WITH ONE TYPE A AND ONE TYPE COMPLETE WITH ORECEPTACLE DENOTES T-SLOT 2 CSA TYPE 5-20R
⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ □ □ □ □ □	AUTOMATICALLY CONTROLLED (ASHRAE 90.1-20 8.4.2). 120V U-GROUND DUPLEX RECEPTACLE - HALF OR RECEPTACLE AUTOMATICALLY CONTROLLED (A 90.1-2013, 8.4.2). MANUALLY CONTROLLED SPLIT RECEPTACLE 120V U-GROUND QUAD RECEPTACLE. SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN. 120V U-GROUND DUPLEX RECEPTACLE MOUNTE ABOVE COUNTER TOP OR AS INSTRUCTED ON SINGURED ON S
⊕ ⊕ ⊕ ⊕ ⊕ ⊕ USB	AUTOMATICALLY CONTROLLED (ASHRAE 90.1-20.8.4.2). 120V U-GROUND DUPLEX RECEPTACLE - HALF OR RECEPTACLE AUTOMATICALLY CONTROLLED (A.90.1-2013, 8.4.2). MANUALLY CONTROLLED SPLIT RECEPTACLE 120V U-GROUND QUAD RECEPTACLE. SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN. 120V U-GROUND DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SIMPLED RECEPTACLE IN FLOOR BOX ADJACENT TO RECEPTACLE, INDICATES RECEPTACHE WITH ONE TYPE A AND ONE TYPE COMPLETE WITH ONE TYPE A AND ONE TYPE COMPLETE WITH ONE TYPE A BOUNTED STANDARD TO RECEPTACLE DENOTES T-SLOT 20 CSA TYPE 5-20R 20A RECEPTACLE, COUNTER MOUNTED



Sheet List Table

ELECTRICAL SINGLE LINE DIAGRAM

ELECTRICAL DETAILS

ELECTRICAL SCHEDULES

E-300

E-400

E-500

ELECTRICAL LEGEND AND DRAWING LIST
POWER & SYSTEMS - DEMOLITION - MAIN ROOF

POWER & SYSTEMS - NEW WORK - MAIN ROOF







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ISSUED 100 % FOR CLIENT REVIEW	MAY.30.2023
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Project Information

Clarkson Community Centre Renewal

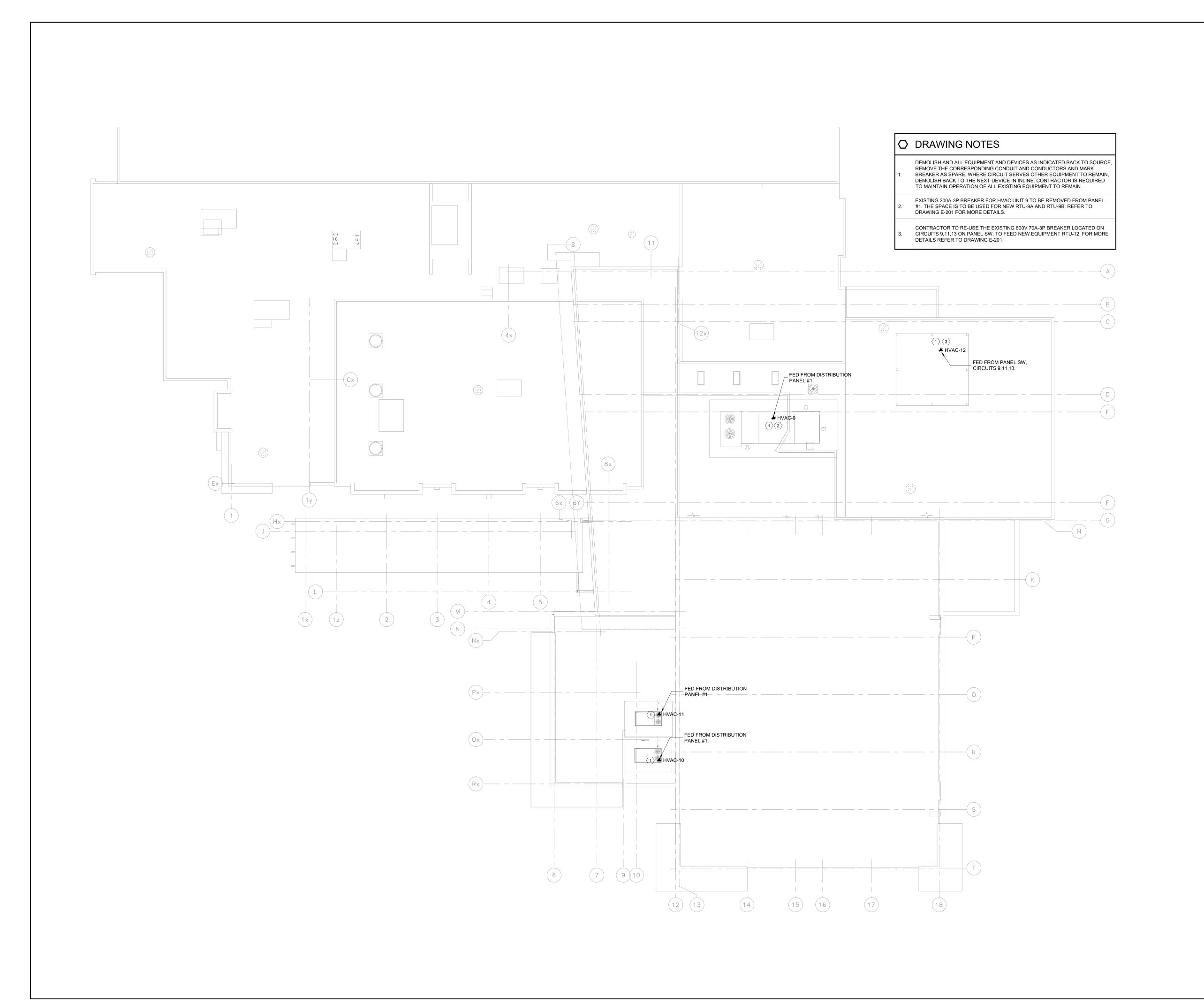
2475 Truscott Drive, Mississauga, ON

City of Mississauga

Drawing Title

ELECTRICAL LEGEND AND DRAWING LIST

Date M	IAY.30.2023	Project No	Drawing No
Drawn by	ZH	CM-22-127	E-001
Scale AS	S SHOWN		







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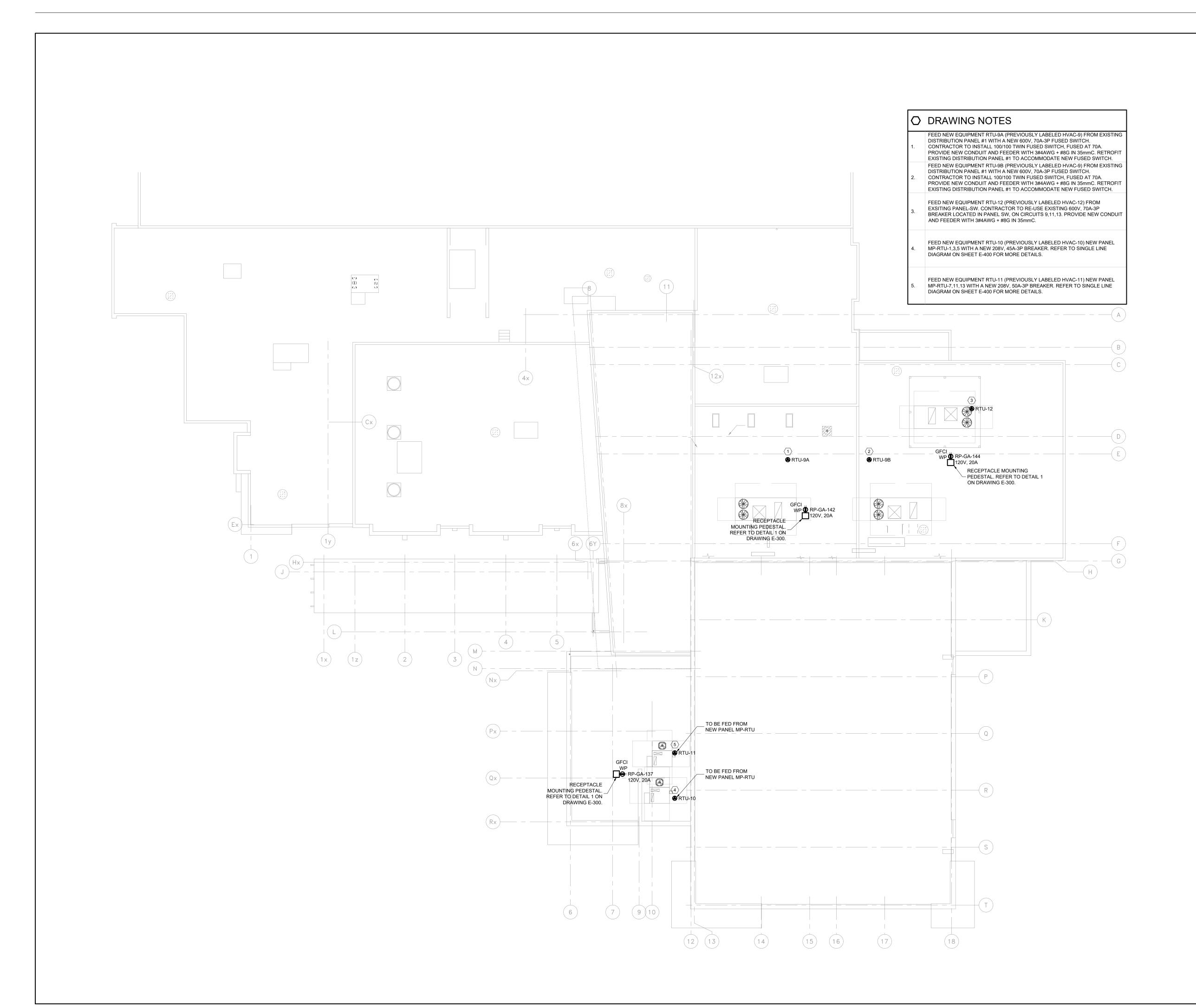
City of Mississauga

Drawing Title

POWER & SYSTEMS -**DEMOLITION - MAIN ROOF**

Date MAY.30.2023 Project No Drawing No

AS SHOWN







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Project Information

Clarkson Community Centre Renewal

2475 Truscott Drive, Mississauga, ON

City of Mississauga

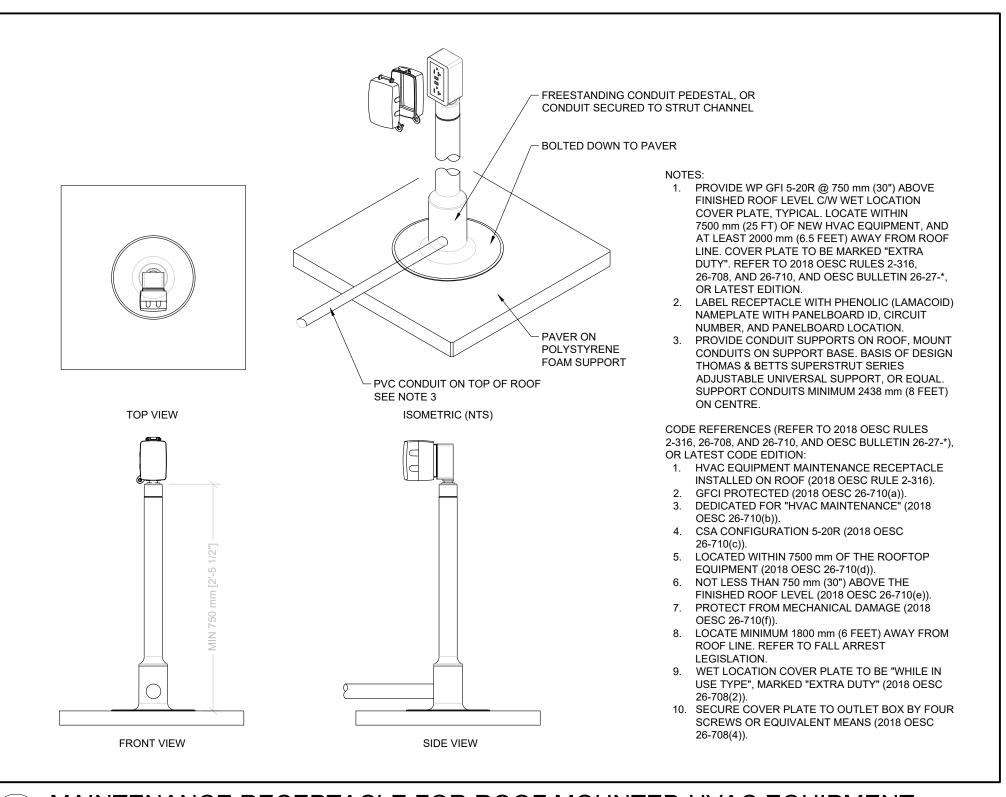
Drawing T

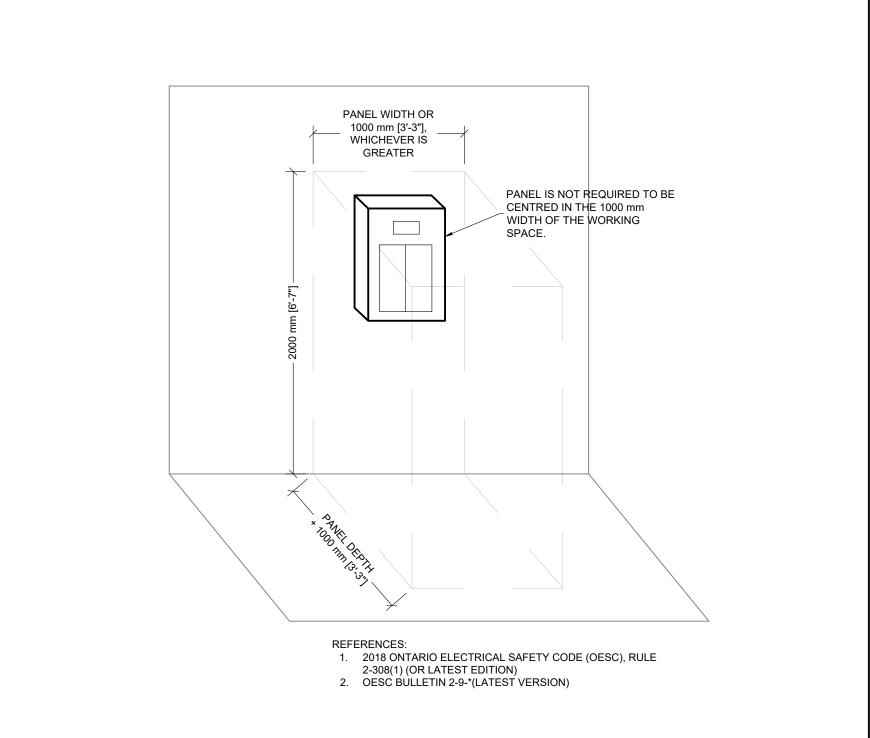
POWER & SYSTEMS -NEW WORK - MAIN ROOF

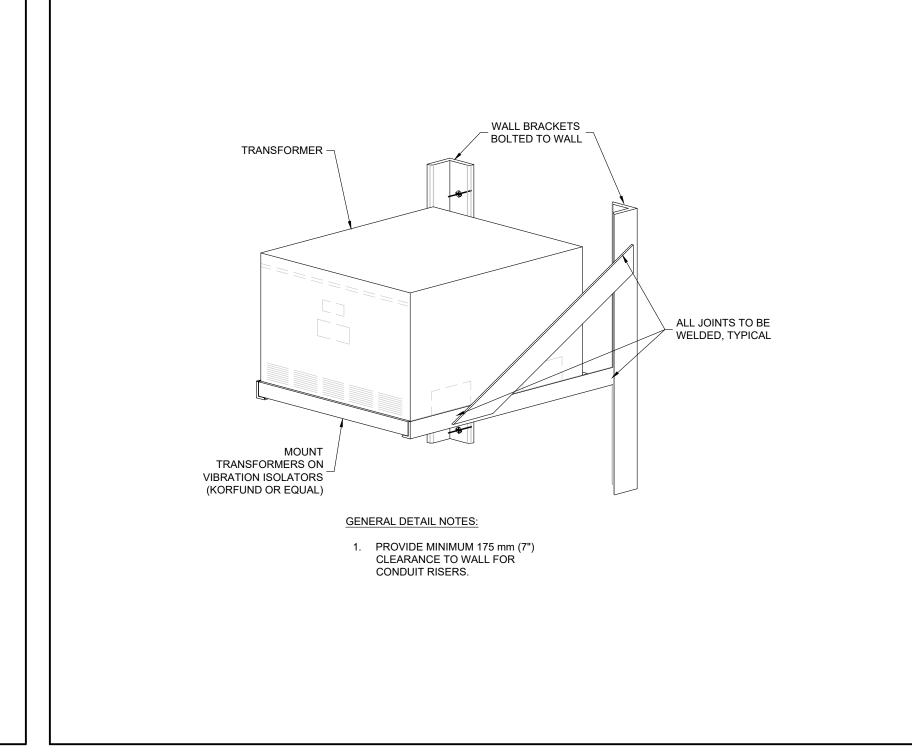
Date MAY.30.2023 Project No Drawing No

Drawn by ZH
--- CM-22-127 E-201

Scale AS SHOWN







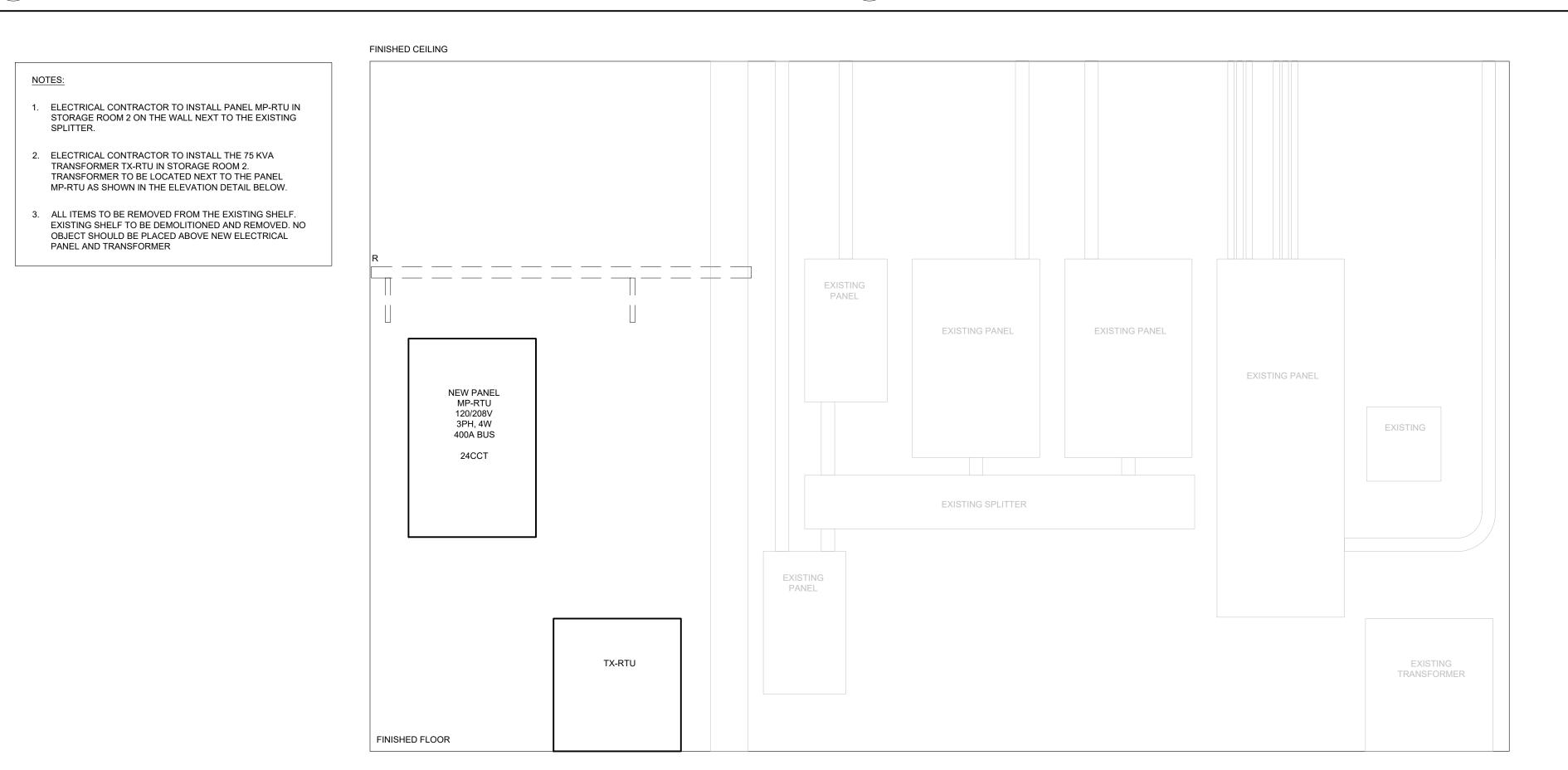




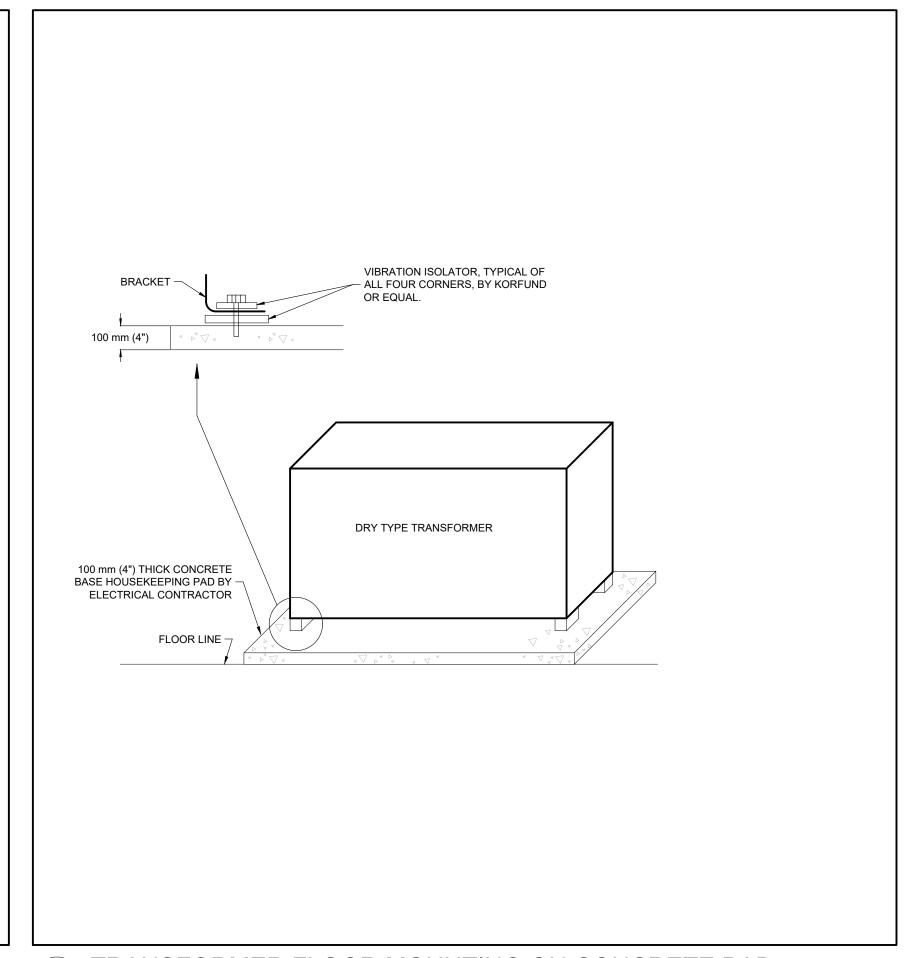
905-507-0800 WEB: WWW.QUASARCG.COM

MAINTENANCE RECEPTACLE FOR ROOF MOUNTED HVAC EQUIPMENT SCALE: N.T.S.

CLEAR SPACE PANELBOARDS SCALE: N.T.S.



TRANSFORMER WALL MOUNTING SCALE: N.T.S.



TRANSFORMER FLOOR MOUNTING ON CONCRETE PAD SCALE: 1:50

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Orientat	ion	Seal	

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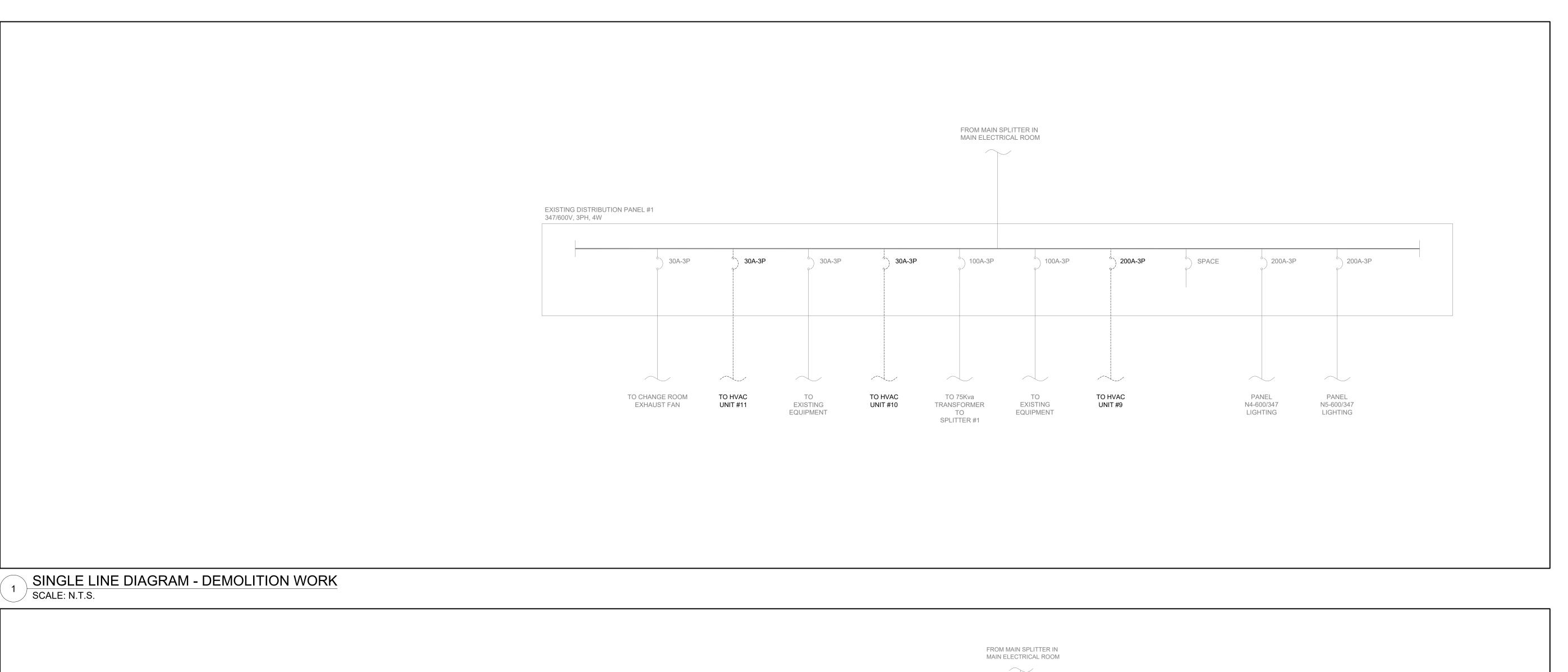
City of Mississauga

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ELECTRICAL DETAILS

Date MAY.30.2023	Project No Drawing No
Drawn by ZH	CM-22-127 E-300
Scale AS SHOWN	

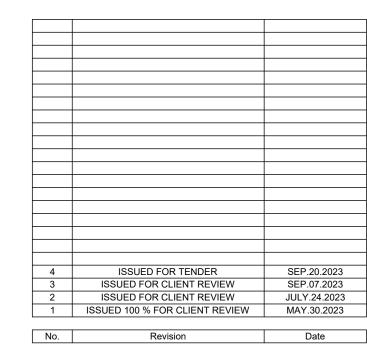
STORAGE 2 WALL ELEVATION LAYOUT SCALE: N.T.S.







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Orientation

Seal

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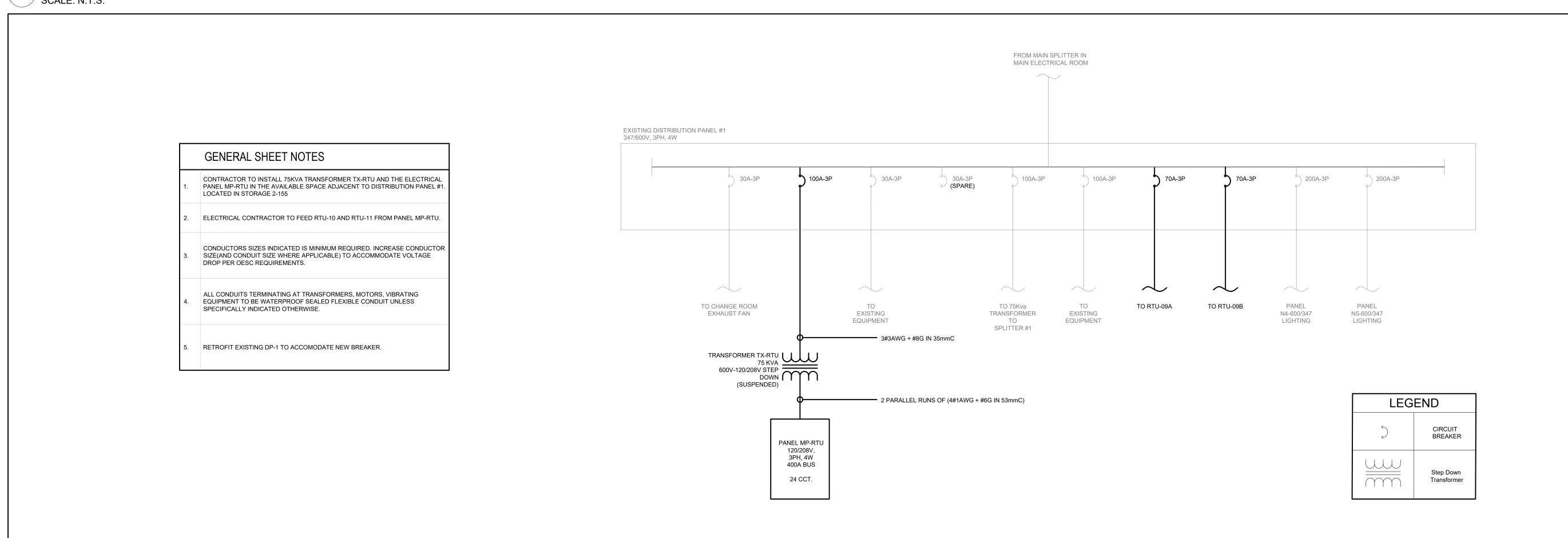
City of Mississauga

Drawing Title

ELECTRICAL SINGLE LINE

DIAGRAM

Date	MAY.30.2023	Project No	Drawing No
Drawn b	y ZH	OM 00 407	L 100
		CIVI-22-127	L-400
Scale			
	AS SHOWN		



2 SINGLE LINE DIAGRAM - NEW WORK SCALE: N.T.S.

	PANEL ID: MP-F	RTU		V	OLTS: 12	20/208	3V		LOCAT	ION: STO	ORAGE ROOM 2-155	
	MAIN BUS:				PHAS	E: 3				FED	FROM:	
	MAIN BREAKER: 1	NONE			WIRE	≣: 4						
	TYPE:			MOL	JNTING:	SURF	ACE			FE	EDER:	
	INTERRUPTING CAI	PACITY:		ENC	CLOSURI	E RAT	ING:			REI	MARKS:	
CIR		WATTAGE BRK			BRK	WATTAGE						
NO.	DESCRIPTION	ØA	ØB	ØC	R	Ø	R	ØA	ØB	ØC	DESCRIPTION	
1		0	-	-		Α		0	-	-		
3	RTU-10	-	0	-	45A	В		-	0	-		
5		-	-	0		С		-	-	0		
7		0	-	-		Α		0	-	-		
9	RTU-11	-	0	-	50A	В		-	0	-		
11		-	-	0		С		-	-	0		
13		0	-	-		Α		0	-	-		
15		-	0	-		В		-	0	-		
17		-	-	0		С		-	-	0		
19		0	-	-		Α		0	-	-		
21		-	0	-		В		-	0	-		
23		-	-	0		С		-	-	0		
25		0	-	-		Α		0	-	-		
27		-	0	-		В		-	0	-		
29		-	-	0		С		-	-	0		
31		0	-	-		Α		0	-	-		
33		-	0	-		В		-	0	-		
35		-	-	0		С		-	-	0		
37		0	-	-		Α		0	-	-		
39		-	0	-		В		-	0	-		
41		-	-	0		С		-	-	0		
		T	OTAL ØA	v:W	, TOTAI	ØB:	W ,	TOTAL	ØC:	W		
NOTES): -											

CIRCUIT NUMBERS ARE GIVEN FOR GROUPING ONLY. SITE VERIFY AVAILABLE CIRCUIT BREAKER SPACES IN PANELS DURING TENDER WALKTHROUGH.







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City of Mississauga

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ELECTRICAL SCHEDULES

Date	MAY.30.2023	Project No	Drawing No
Drawn by	ZH 	CM-22-127	E-500
Scale	AS SHOWN		

MECHANICAL SYMBOLS **GENERAL** SYMBOL DESCRIPTION EXISTING TO REMAIN EXISTING TO BE DEMOLISHED R R CTE EXISTING TO BE REMOVED FOR RELOCATION EXISTING RELOCATED IN NEW WORK NEW WORK CONNECT TO EXISTING AIRFLOW / PIPE FLOW DIRECTION PIPE TURNING DOWN PIPE TURNING UP PRESSURE REDUCING VALVE \bigcirc ROOM THERMOSTAT $oldsymbol{\Theta}$ ROOM HUMIDISTAT AUTOMATIC CONTROL VALVE - TWO WAY AUTOMATIC CONTROL VALVE - THREE WAY \bowtie ISOLATION VALVE BALANCING VALVE CHECK VALVE $\overline{\triangleright}$ STRAINER - OVER 50MM WITH VALVED FLUSHING DRAIN PIPE BRANCH OFF TOP PIPE BRANCH OFF BOTTOM RELIEF VALVE (PIPE TO DRAIN) PRESSURE GUAGE THERMOMETER CAP

MECHANIC	AL SYMBOLS
VENTILATION	
SYMBOL	DESCRIPTION
FD FD	FUSIBLE LINK FIRE DAMPER (DOUBLE LINE)
FD	FUSIBLE LINK FIRE DAMPER (SINGLE LINE)
SD	SMOKE DAMPER (DOUBLE LINE)
SD SD	SMOKE DAMPER (SINGLE LINE)
SFD	COMBINATION SMOKE/FIRE DAMPER (DOUBLE LINE)
1 SFD	COMBINATION SMOKE/FIRE DAMPER (SINGLE LINE)
BDD	· · · ·
BDD	BACK DRAFT DAMPER (DOUBLE LINE)
BD BD	BACK DRAFT DAMPER (SINGLE LINE)
₹ ₽BD	BALANCING DAMPER (DOUBLE LINE)
2 + 2	BALANCING DAMPER (SINGLE LINE)
600x300	RECTANGULAR DUCTWORK - DIMENSION AS SHOWN
- 	ROUND DUCTWORK - DIMENSION AS SHOWN
2 600x300 2	DUCTWORK (SINGLE LINE) - DIMENSION AS SHOWN
	SUPPLY DUCT UP
	EXHAUST/RETURN DUCT UP SUPPLY DUCT DOWN
	EXHAUST/RETURN DUCT DOWN
	MITRED ELBOW WITH AIR TURNING VANES
 	DUCT RISE (DOUBLE LINE)
<u> </u>	DUCT RISE (SINGLE LINE)
MD \\ \frac{\fir}}}}}}}{\firac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir\f{\frac{\fir}}}}}}{\frac{\frac{\frac{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\	MOTORIZED DAMPER SUPPLY GRILLE - DIMENSIONS SHOWN ON SCHEDULE
——————————————————————————————————————	EXHAUST/RETURN GRILLE - DIMENSIONS SHOWN ON SCHEDULE
3	CEILING SUPPLY AIR DIFFUSER - DIMENSIONS SHOWN ON SCHEDULE
	SUPPLY AIR LINEAR SLOT DIFFUSER - DIMENSIONS SHOWN ON SCHEDULE
	CEILING EXHAUST/RETURN GRILLE - DIMENSIONS SHOWN ON SCHEDULE
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT (DOUBLE LINE)
ِي _ّ ِي	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT (SINGLE LINE)
O.E.D.	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH. DIRECTION AS SHOWN (DOUBLE LINE)
€ O.E.D.	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH. DIRECTION AS SHOWN (SINGLE LINE)
	FLEXIBLE DUCT CONNECTION
A-200Ø-100 AIRFLOW IN L/s	DIFFUSER TAG
TYPE A-100 AIRFLOW IN L/s	GRILLE TAG
<u></u>	ACOUSTICALLY LINED DUCTWORK (DOUBLE LINE)
<u> </u>	ACOUSTICALLY LINED DUCTWORK (SINGLE LINE)
	SILENCER (ATTENUATOR)
	FLEXIBLE DUCT (DOUBLE LINE)
	FLEXIBLE DUCT (SINGLE LINE) RETURN AIR OPENING IN WALL ABOVE FINISHED CEILING
R.A.O.	FLEXIBLE DUCT CONNECTION WITH BALANCING DAMPER ON TAKE-OFF
	DUCT MOUNTED HEATING COIL (DOUBLE LINE)
	DUCT MOUNTED HEATING COIL (SINGLE LINE)
₹ <u>8// 111</u> →	VARIABLE AIR VOLUME BOX C/W REHEAT COIL. 8 DENOTES SIZE, 111 DENOTES AIR QUANTITY IN LITRES/SEC.
	DUCT TRANSITION FROM RECTANGULAR TO ROUND
-	RECTANGULAR DUCT BREAK
	ROUND DUCT BREAK
\$	SINGLE LINE DUCT BREAK

	SHEET LIST TABLE
Sheet Number	Sheet Title
M-100	MECHANICAL LEGEND AND DRAWING LIST
M-200	HVAC DEMOLITION - MAIN ROOF
M-201	HVAC NEW - MAIN ROOF
M-400	MECHANICAL DETAILS
M401	MECHANICAL CONTROL SEQUENCE
M-500	MECHANICAL SCHEDULE





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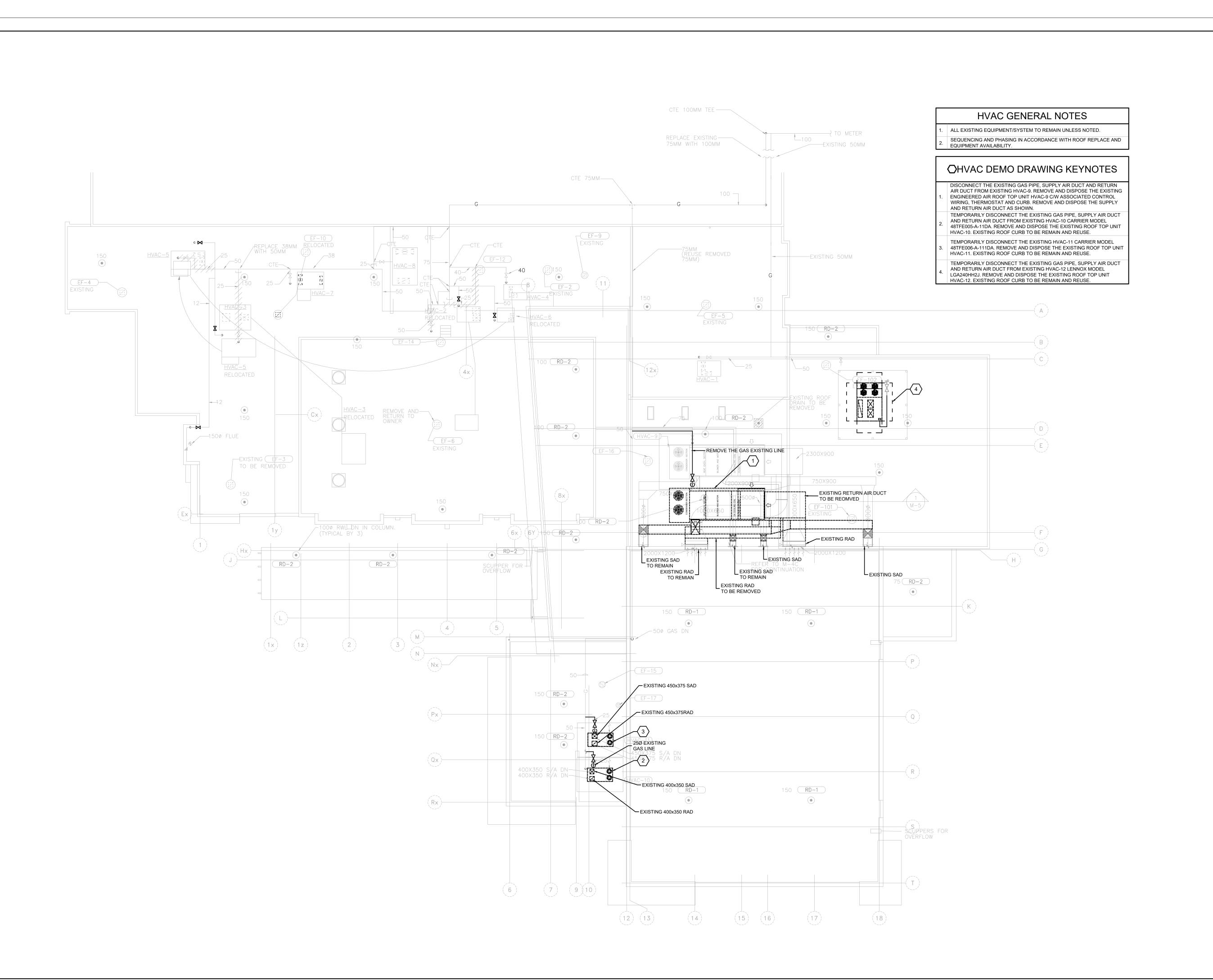
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City of Mississauga

Drawing Title

MECHANICAL LEGEND AND DRAWING LIST

Date	MAY.30.2023	Project No	Drawing No
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Scale	AS SHOWN		







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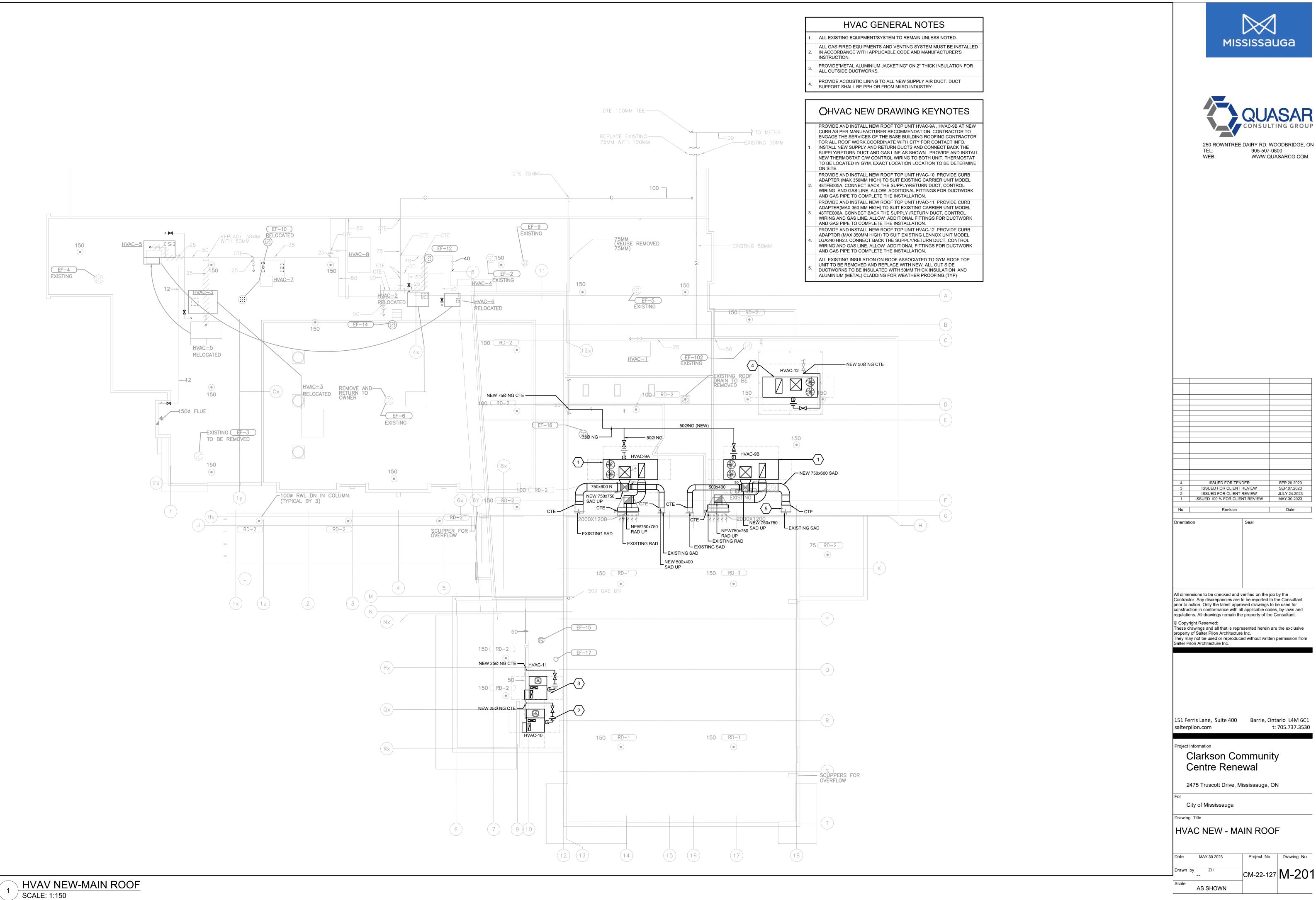
City of Mississauga

AS SHOWN

Drawing

HVAC DEMOLITION - MAIN ROOF

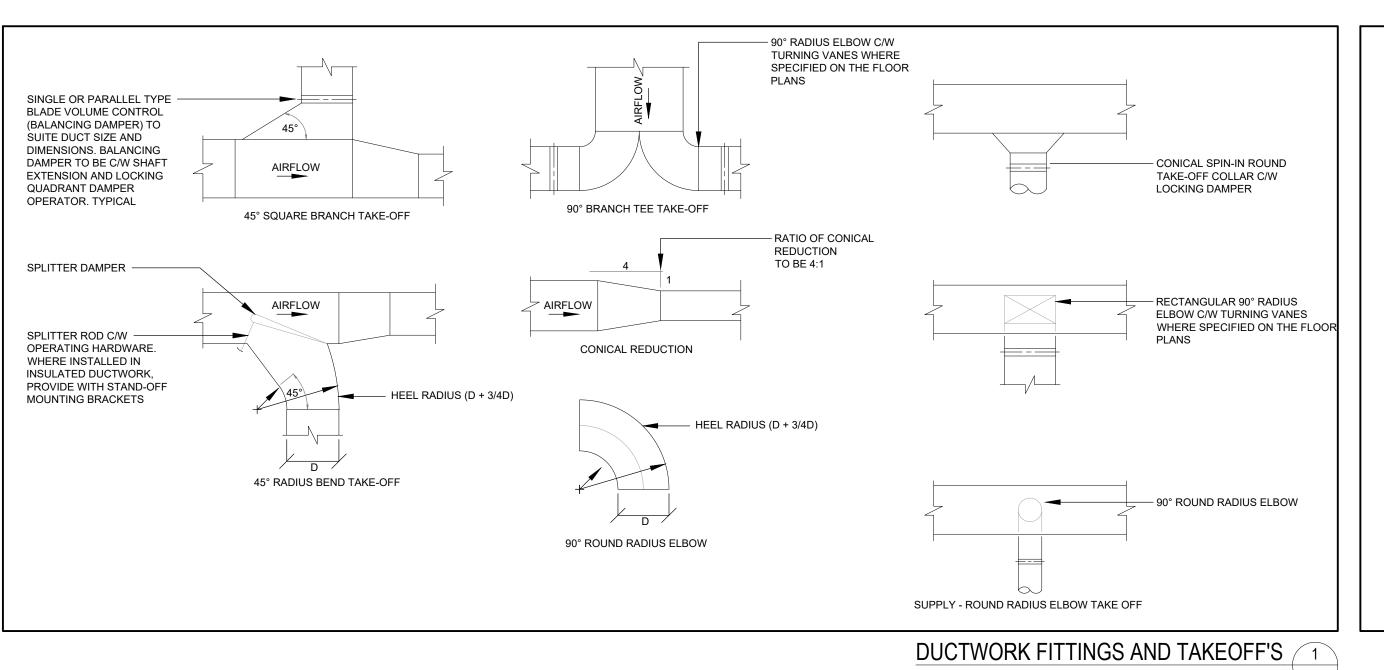
Project No Drawing No awn by ZH CM-22-127 M-200



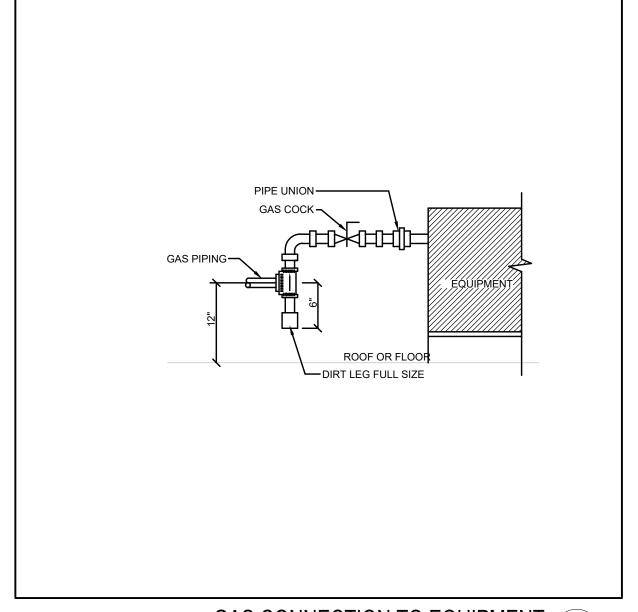


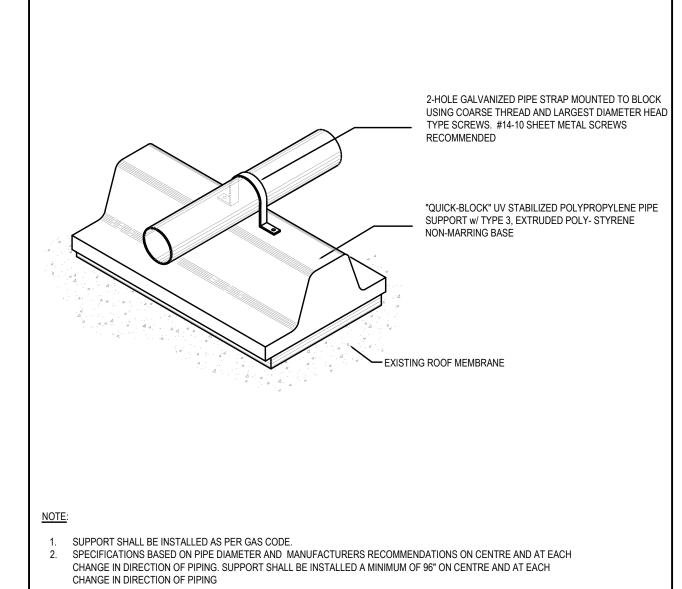


Project No Drawing No CM-22-127 M-201



WEATHER RESISTANT ROOF -



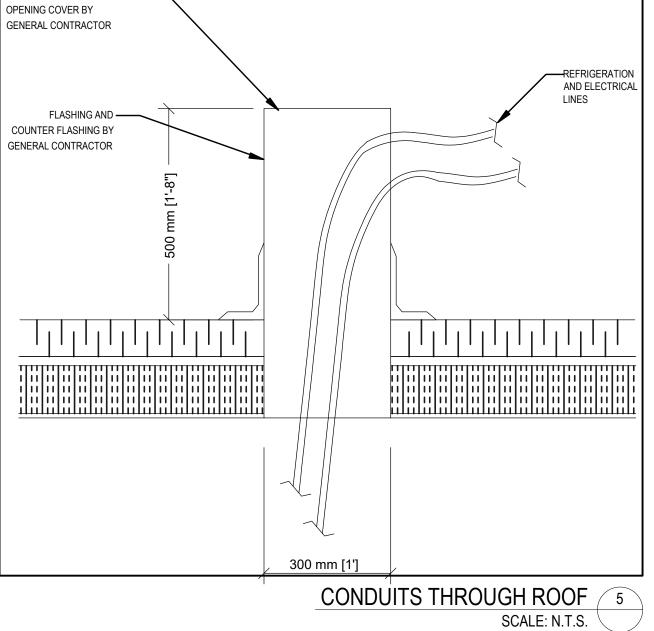


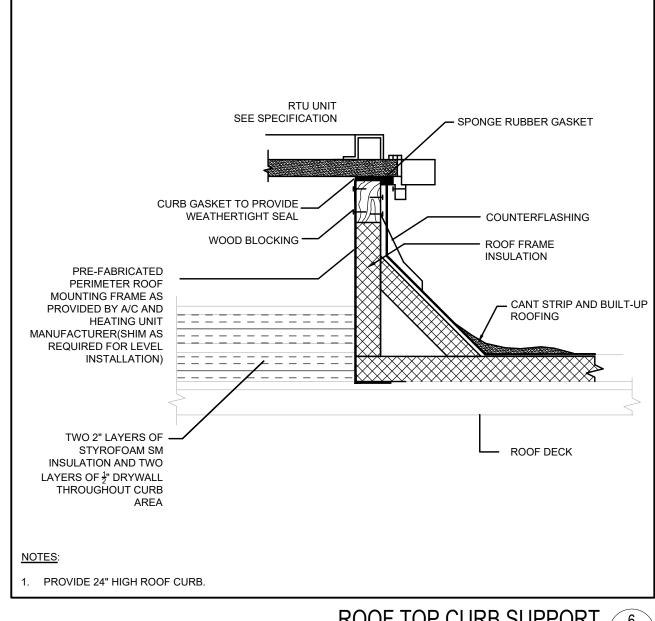


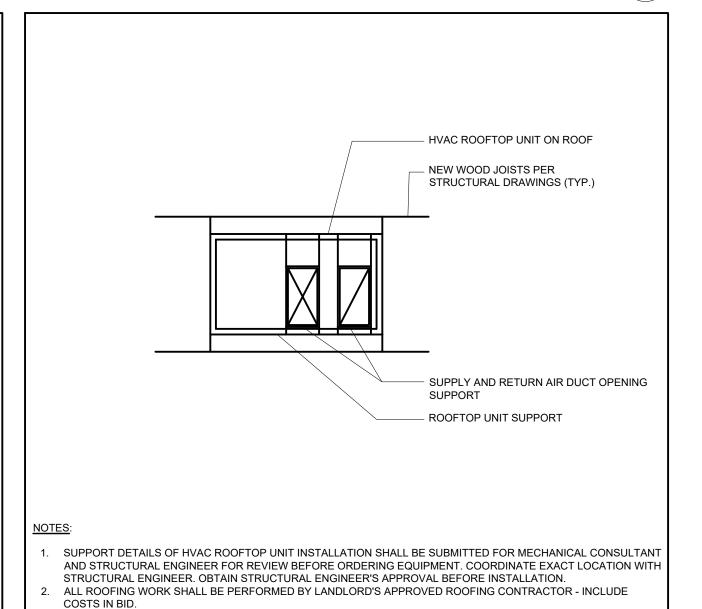


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GAS SUPPORT ON ROOF







ROOF TOP UNIT SUPPORT 7 SCALE: N.T.S.

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City of Mississauga

MECHANICAL DETAILS

Project No Drawing No CM-22-127 M-400 AS SHOWN

25 x 25 x 3 MM ANGLE CLIPS USED AS SUPPORT AT BOTH ENDS OF VANE AND RIVETED TO RUNNER PLATE OR VANES WELDED DIRECTLY USE GALVANIZED VANES FOR -TO PLATE WITHOUT CLIPS. GALVANIZED OR ALUMINUM DUCT SIZE TYPE -A- VANE USED IN DUCT OVER 24" SQ., SAME GAUGE THICKNESS OVER 600 x 600 PLATE SAME GAUGE THICKNESS AS DUCT RIVET EDGE AS DUCT VANES PRE-ASSEMBLED ON **RUNNER PLATES** TACK WELD TO 50 VANE (TYP.) TYPE -A- VANE SQUARE ELBOW WITH TYPE -A-CONSTRUCTION DOUBLE THICKNESS VANES

FINISHED ROOF LEVEL

INSULATE AND WEATHER PROOF

BY PAINTING WITH TWO (2)

— DUCT FULLY

WEATHER-PROOFED.

4"x8"x(WIDTH OF DUCT)

— 18"x47"x1/2" LEXSUCO

HOT MOP TO ROOF

├─12" **─**∤

DUCT SUPPORT ON ROOF 4
SCALE: N.T.S.

18"

24"

30"

48"

WIDTH OF DUCTWORK HEIGHT (H)

HEAVY COATS OF BITUMASTIC PAINT. SLOPE (2%) DUCT

CREOSOTE WOOD SLEEPERS

FLEX-MAT MOPPED TO NEW

REMOVE GRAVEL. PROVIDE 2 NEW LAYERS OF FELT AND

FELTS, RE-GRAVEL EXPOSED

SEE DETAIL

ROOF CURB BY -

SHEET METAL DUCT -

WELDED TO SUPPORTS

WELD 4"x4" PLATE TO

ANGLE IRON & LAG BOLT

2"x2" ANGLE IRON SUPPORT ----

├─12" **─**∤

UP TO 24"

25" TO 36"

37" TO 48"

49" TO 60"

61" AND WIDER

SUPPORTS TO BE PLACED AT EVERY 6'-0" (MINIMUM). REFER TO ROOF PLAN FOR DUCT ROUTING.

FRAME MOUNTED ON 3" PIPE

OTHERS

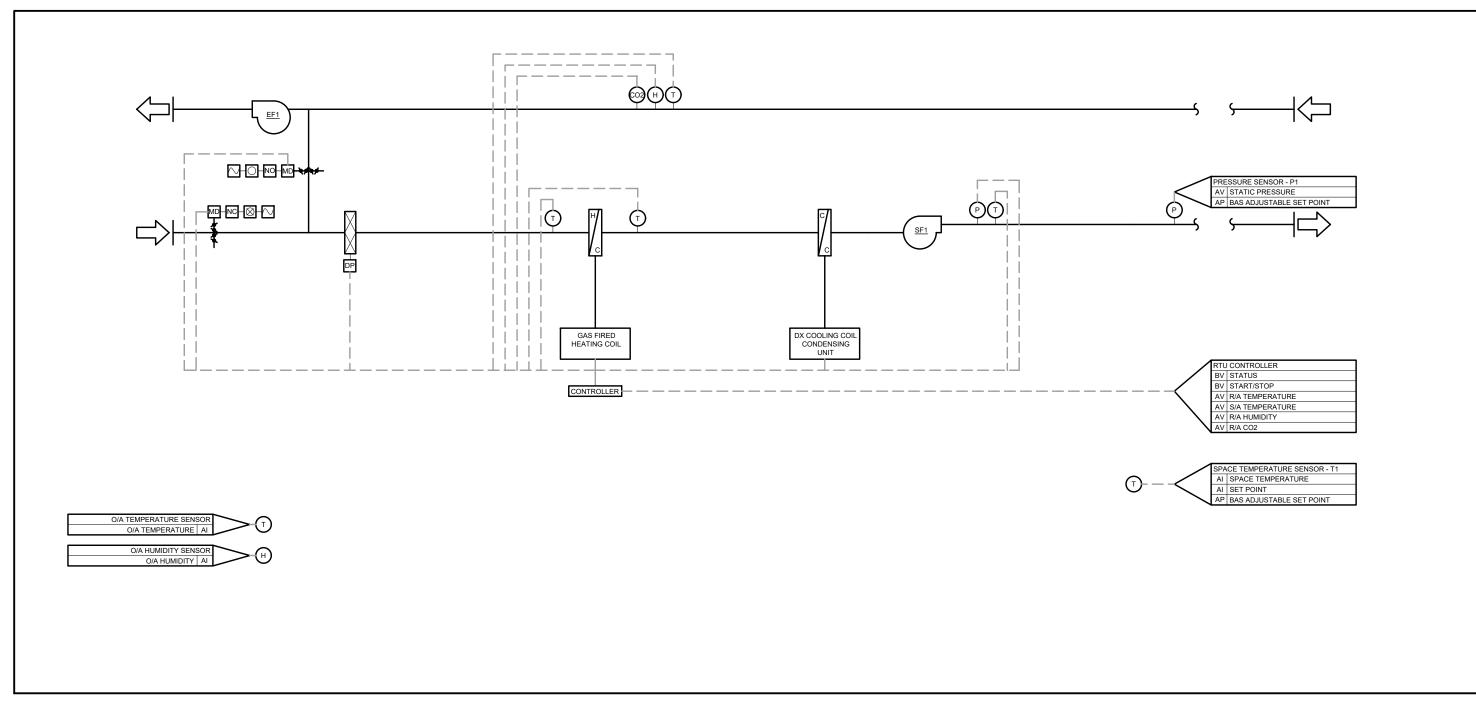
GAS CONNECTION TO EQUIPMENT 2

ROOF TOP CURB SUPPORT 6

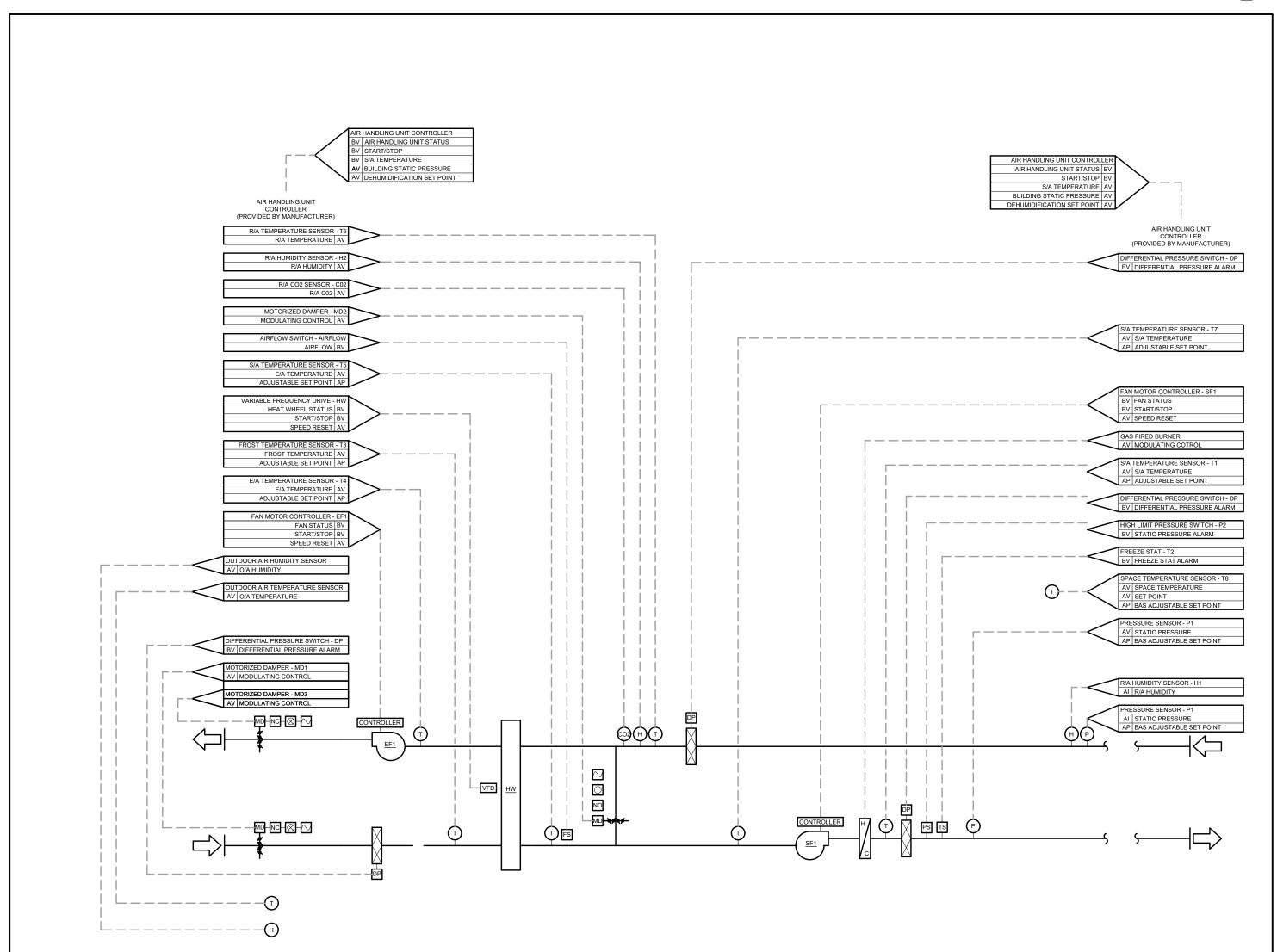
SCALE: N.T.S.

SQUARE ELBOW WITH TURNING VANES 8 SCALE: N.T.S.

MAY.30.2023



PACKAGED ROOF TOP UNIT 1



PACKAGED ROOF TOP UNIT WITH HEAT RECOVERY WHEEL 2

SCALE: N.T.S.

1.1 SINGLE ZONE ROOF TOP UNITS 9A,9B RTU-10, RTU-11 AND RTU-12

THE MUST PROVIDES HEATING, COOLING AND VENTILATION AIR TO THE SPACE.

THE UNIT CONSISTS OF A SUPPLY FAN, AN EXHAUST FAN, ECONOMIZER, HEAT RECOVERY WHEEL, A GAS FIRED BURNER AND A DX COOLING (HEAT PUMP).

.1 THE EMCS SHALL ENABLE THE ROOFTOP UNIT FAN TO START WHEN COMMANDED ON THROUGH EITHER MSOSX OR OTHER SPECIFIED MODES OF OPERATION. .2 WHEN COMMANDED ON, THE EMCS SHALL START THE SUPPLY FAN FIRST FOLLOWED BY RETURN FAN. ONCE FAN STATUS IS PROVEN THE EMCS SHALL ALLOW APPLICATION OF THE SPECIFIED HEATING/COOLING/VENTILATION SEQUENCES. (NOTE: WHERE FANS ARE HARD WIRE INTERLOCKED - BOTH SHALL BE STARTED SIMULTANEOUSLY). .3 WHEN THE RTU IS COMMANDED ON IN OCCUPIED MODE, THE FANS SHALL OPERATE EITHER CONTINUOUSLY OR AUTOMATICALLY (DUTY CYCLE) WITH HEATING, COOLING, OR ECONOMIZER COOLING TO MAINTAIN THE OCCUPIED SET POINTS. THE SELECTION OF CONTINUOUS OR AUTO FAN MODE SHALL BE GRAPHICALLY DISPLAYED AND SELECTABLE BY THE FACILITY OPERATOR.

4 DURING UNOCCUPIED OPERATION, THE FAN SHALL REMAIN OFF UNLESS CALLED ON TO SATISFY UNOCCUPIED HEATING/COOLING SET POINTS OR FOR NIGHT PURGE/MORNING WARM-UP MODE.

.5 IF THE "ON" STATUS IS NOT VERIFIED 30 SECONDS (ADJUSTABLE) AFTER FAN IS ENABLED, THE DAMPERS SHALL CLOSE TO FULL RECIRC AND A MAINTENANCE ALARM SHALL BE GENERATED. .6 WHEN THE EMCS SEND THE SIGNAL TO STOP; ALL FANS SHALL STOP, MIXED AIR DAMPERS SHALL CLOSE TO FULL RE-CIRCULATION, HEATING AND COOLING SHALL REMAIN OFF.

.3 HEATING/COOLING/VENTILATION CONTROL

.1 (FULL ECONOMIZER CONTROL - CONTRACTOR TO SITE VERIFY) DURING OCCUPIED OPERATION OF THE UNIT THE EMCS SHALL MODULATE THE MIXED AIR DAMPERS (MADMPR_MOD) BETWEEN MINIMUM VENTILATION, 100% OUTSIDE AIR IN SEQUENCE WITH STAGES OF HEATING AND COOLING TO MAINTAIN OCCUPIED HEATING AND COOLING SET POINTS. .2 THE MIXED AIR TEMPERATURE SHALL BE USED AS A MIXED AIR LOW LIMIT TO OVERRIDE THE MINIMUM POSITION

.2 (ALT - MINIMUM FA DAMPER CONTROL) 1 DURING OCCUPIED OPERATION OF THE UNIT THE EMCS SHALL ENABLE THE ECONOMIZER (ECONDIS_CMD=OFF) ALLOWING THE MIXED AIR DAMPERS TO MODULATE ON THEIR OWN BETWEEN MINIMUM VENTILATION AND 100% OUTSIDE AIR IN SEQUENCE WITH STAGES OF HEATING AND COOLING TO MAINTAIN OCCUPIED HEATING AND COOLING SET POINTS.

3 HEATING AND COOLING DEMAND SHALL BE DETERMINED BY THE ROOM TEMPERATURE SETPOINT (RM### RMT SP). THERE SHALL BE A FLAT PLATE SENSOR(S) TO MONITOR ROOM TEMPERATURE. THE EMCS SHALL PROVIDE AN ADJUSTABLE DEAD-BAND FOR BOTH HEATING AND COOLING. THE RMT. SP AND HEATING COOLING STALL PAGE AS A COMBINED STHALL ALL BE ADJUSTABLE THROUGH THE SYSTEM SETTINGS PAGE. EACH RTU WILL HAVE ITS OWN SETTINGS PAGE AS WELL AS A COMBINED SUMMARY SETTINGS PAGE FOR ALL RTUS SERVING THE FACILITY. INITIAL STAGES OF HEATING AND COOLING SETPOINTS SHALL BE BASED ON A DEAD-BAND OF SETPOINT +/ - 1 °C(ADJUSTABLE VIA SETTING PAGE).

.1 FOR COOLING, WHEN THE ROOM TEMPERATURE RISES TO RMT_SP + 1°C (ADJUSTABLE DEAD-BAND), THE FIRST STAGE OF COOLING SHALL BE ENERGIZED.

.2 THE EMCS SHALL SEND A SIGNAL TO THE FRESH AIR DAMPERS TO OPERATE BETWEEN THE LOW MINIMUM AND MAX MINIMUM BASED ON CO2.

.2 WHEN THE ROOM TEMPERATURE REACHES RMT_SP+2 °C (ADJUSTABLE DEAD BAND) THE SECOND STAGE OF COOLING SHALL BE ENERGIZED (WHERE APPLICABLE).

3 THE SECOND STAGE OF COOLING SHALL BE DEACTIVATED WHEN THE ROOM TEMPERATURE REACHES RMT_SP+0.5°C AND THE FIRST STAGE OF COOLING SHALL BE DISABLED WHEN THE ROOM TEMPERATURE = RMT_SP.

.5 ECONOMIZER MODE (FULL DAMPER CONTROL):

.1 WHEN THE OUTDOOR AIR TEMPERATURE IS 0.5°C BELOW THE ECONOMIZER SET POINT (ECON_SP) OF 14.5°C (ADJUSTABLE), MECHANICAL COOLING SHALL BE LOCKED OUT AND THE ECONOMIZER COOLING BE UTILIZED. ON A CALL FOR COOLING THE EMCS SHALL MODULATE THE MIXED AIR DAMPERS BETWEEN THE MINIMUM VENTILATION SETTING AND 100% OPEN TO SATISFY A SAT_SP OF 13°C. .2 POWER EXHAUST OF THE RTU X_EFAN_CMD SHALL BE ENABLED WHENEVER THE MIXED AIR DAMPERS ARE GREATER THAN 50% OPEN (ADJUSTABLE) AND SHALL BE DISABLED WHEN THE DAMPERS CLOSE BELOW 48% (ADJUSTABLE). .6 ECONOMIZER MODE (ALT - MIN FA DAMPER CONTROL)

.1 WHEN THE OUTDOOR AIR TEMPERATURE IS 0.50C BELOW THE ECONOMIZER SET POINT (ECON_SP), MECHANICAL COOLING SHALL BE LOCKED OUT AND THE ECONOMIZER COOLING BE UTILIZED. THE ON-BOARD RTU OEMASC WILL DETERMINE IF THE OUTDOOR TEMPERATURE IS BELOW ECONOMIZER SETPOINT (FREE COOLING MODE), OR IF MECHANICAL COOLING (DX COOLING), STAGING SHALL BE ENERGIZED TO SATISFY THE COOLING REQUIREMENTS.

7. MIXED AIR LOW LIMIT .1 A MIXED AIR LOW LIMIT SET-POINT (MAT-LL) SHALL BE USED TO OVERRIDE THE MIXED AIR DAMPER TO MAINTAIN A MINIMUM TEMPERATURE OF 6.60C (ADJUSTABLE)

.2 IF THE MIXED AIR TEMPERATURE FALLS BELOW THE MIXED AIR LOW LIMIT, THE EMCS SHALL GENERATE AN ENVIRONMENTAL ALARM.

.3 IF THE MIXED AIR LOW LIMIT REQUIRES THE DAMPERS TO BE BELOW THE MINIMUM VENTILATION POSITION FOR MORE THAN 2 MINUTES (ADJUSTABLE), THE EMCS SHALL GENERATE A MAINTENANCE ALARM .4 IF THE MAT-LL REQUIRES THE DAMPERS TO BE BELOW THE MINIMUM VENTILATION SETTING FOR MORE THAN 2 MINUTES (ADJUSTABLE) THE EMCS SHALL GENERATE A MAINTENANCE ALARM.

.4 HEATING MODE:

.1 HEATING SHALL ONLY BE ENABLED WITH THE OAT IS BELOW THE HEATING LOCK-OUT TEMPERATURE OF 18°C (ADJUSTABLE). .2 WHEN THE ROOM TEMPERATURE FALLS TO RMT SP -1°C (ADJUSTABLE DEAD-BAND), THE FIRST STAGE OF HEATING SHALL BE ENABLED. IF RMT SP FALLS TO -2 °C(ADJUSTABLE), THE SECOND STAGE OF HEATING SHALL BE ENABLED.

.3 WHEN THE ROOM TEMPERATURE REACHES RMT_SP-0.5°C, THE SECOND STAGE OF HEATING SHALL BE DEACTIVATED. WHEN THE ROOM TEMPERATURE = RMT_SP THE FIRST STAGE OF HEATING SHALL BE DEACTIVATED. (ALL DEAD-BANDS SHALL BE .5 MINIMUM VENTILATION AND CO2 CONTROL

.1 EACH UNIT SHALL HAVE A MINIMUM VENTILATION SETTING WITH UPPER AND LOWER MINIMUM VENTILATION SETTINGS. A CO2 SENSOR SHALL BE USED TO RESET THE MINIMUM VENTILATION BETWEEN THE "UPPER" AND A "LOWER" MINIMUM VENTILATION LIMIT (ADJUSTABLE LIMITS VIA ASSOCIATED SETTINGS PAGES .2 THE EMCS SHALL MONITOR RETURN AIR CO2 LEVELS WILL LOWER THE ACTIVE MINIMUM VENTILATION SETTING IN 2% INCREMENTS EVERY 30SECONDS FROM THE UPPER LIMIT OF 25% DOWN TO LOWER LIMIT OF 10% BASED ON MAINTAINING A MAXIMUM CO2 LEVEL OF 1000PPM (ADJUSTABLE).

.3 WHEN THE RA CO2< 900 PPM, THE EMCS SHALL REDUCE THE ACTIVE MINIMUM VENTILATION SETTING BY 2% EVERY MINUTE FROM THE UPPER LIMIT UNTIL REACHING LOWER LIMIT OR UNTIL THE RA CO2>1000PPM. .4 WHEN THE RA CO2>1000PPM THE EMCS SHALL INCREASE THE ACTIVE MINIMUM DAMPER POSITION IN 2% INCREMENTS EVERY 30 SECONDS UNTIL REACHING THE (MAXIMUM) MINIMUM VENTILATION SETTING.

.1 DURING OCCUPIED OPERATION OF THE FAN SYSTEM THE EMCS WILL LOOK AT THE STATUS OF OCCUPANCY SENSORS IN THE GYM TO DETERMINE OF THE SPACE HAS IS VACANT. WHEN THE LAST DETECTED OCCUPANCY IS MORE THAT 10 MINUTES (ADJUSTABLE) THEN THE EMCS SHALL ADJUST THE HEATING AND COOLING DEAD-BAND A FURTHER +/-1°C (ADJUSTABLE) FROM THE OCCUPIED HEATING/COOLING DEAD BAND AND THE MINIMUM VENTILATION POSITION SHALL BE 0% OUTSIDE AIR. .2 WHEN OCCUPANCY IS DETECTED, THE FAN SYSTEM SHALL IMMEDIATELY RETURN TO OCCUPIED SETTINGS.

.7 ENERGY RECOVERY WHEEL(RTU 9A, 9B AND 12) .1 HEAT WHEEL IS ENABLED WHEN:

ROOF TOP UNIT IS IN OPERATION AND ECONOMIZER (FREE COOLING) CONTROL IS NOT REQUIRED OR AVAILABLE.

.8 UNOCCUPIED/NIGHT-SET-BACK MODE

.1 DURING UNOCCUPIED OPERATION, THE EMCS SHALL LOOK AT THE SPACE TEMPERATURE AND COMPARE IT TO THE NIGHT SETBACK TEMPERATURE SETPOINT (NSB_SP) TO DETERMINE IF HEATING IS REQUIRED. UNOCCUPIED HEATING SET-POINT SHALL BE 18°C (ADJUSTABLE).

2 WHEN THE SPACE TEMPERATURE FALLS TO NSB_SP - ENABLED IN FULL RECIRCULATION MODE WITH 1 STAGE OF HEATING ENABLED UNTIL THE SPACE TEMPERATURE REACHES NSB_SP THEN SHUT OFF THE HEATING AND AFTER A 2 MINUTE DELAY (ADJUSTABLE) THEN FAN WILL SHUT OFF UNTIL THE NEXT CYCLE. .3 (ALT - MINIMUM FA DAMPER CONTROL)

.1 DURING UNOCCUPIED AND NIGHT SET-BACK MODES, THE FRESH AIR DAMPERS WILL BE COMMANDED TO 0% OA AND THE ECONOMIZER WILL BE COMMANDED "OFF" (ECONDIS_CMD). .9 SAFETIES

.1 MECHANICAL COOLING LOCK OUT (LOW AMBIENT). WHEN OUTDOOR TEMPERATURE IS LESS THAN ON BOARD RTU AMBIENT COOLING LOCK-OUT SET POINT (TYPICALLY 12°C), THE COMPRESSOR SHALL NOT BE ALLOWED TO RUN. .2 ANTI-SHORT CYCLE TIMER. MINIMUM RUN TIMES FOR THE COOLING SHALL BE PROVIDED TO PREVENT SHORT CYCLING AND AVOID COMPRESSOR FAILURE.

.3 HIGH TEMPERATURE PROTECTION CONTROL: IF HIGH TEMPERATURE LIMIT LOCATED IN THE RETURN AIR DUCT RISES ABOVE THE SETTING OF 60OC THE SUPPLY AND RETURN FANS SHALL SHUT DOWN AND A MAINTENANCE ALARM WILL BE GENERATED. ONCE THE HIGH TEMPERATURE PROTECTION CONTROL HAS BEEN MANUALLY RESET, THE UNIT WILL RETURN TO NORMAL CONTROL. .4 FIRE ALARM FAN SHUTDOWN: THE FIRE ALARM SYSTEM SHALL SHUT DOWN ALL FANS ON A FIRE ALARM CONDITION. UPON CLEARING ALL FIRE ALARMS, THE EMCS SHALL START ALL THE FANS IN A STAGGERED MANNER TO PREVENT EXCESSIVE POWER

.10 ALARMS

.1 LOW ROOM TEMP (RMT<14°C WHEN OAT<5°)

.1 CRITICAL

.2 ENVIRONMENTAL .1 FAN STATUS ON AND COMMAND OFF

.2 FAN STATUS OFF AND COMMAND ON 3 SUPPLY MIXED RETURN AIR HIGH AND LOW LIMITS (ADJUSTABLE)

.5 RA CO2 LEVEL ALARM [RA CO2< 900 PPM (ADJUSTABLE)]

 $. 1 \quad {\tt DISCHARGE\ AIR\ GREATER\ THAN\ 3°C\ (ADJUSTABLE)\ ABOVE\ SETPOINT\ FOR\ MORE\ THAN\ 2\ MINUTES\ (ADJUSTABLE).}$ 2 SUPPLY AIR TEMPERATURE < 8°C (ADJUSTABLE) WHEN OAT<5°C FOR MORE THAN 2 MINUTES (ADJUSTABLE</p>

.3 MIXED AIR DAMPERS OPERATING ABOVE THE MINIMUM SETTING FOR MORE THAN 2 MINUTES (ADJUSTABLE). .5 FAN FAIL ALARM

.4 ROOM TEMPERATURE AND HUMIDITY HIGH AND LOW LIMITS

.6 COOLING FAILURE .7 BURNER FAILURE

> .8 HUMIDITY SENSOR DEVIATION [10% RH (ADJUSTABLE)] .9 HEATING STAGE ENABLED AND SAT IS BELOW 250C (ADJUSTABLE) FOR 5 MINUTES (ADJUSTABLE) .4 ENERGY ALARMS

> .10 ENERGY WHEEL .11 DIRTY FILTERS

.4 ENERGY ALARMS .1 FAN STATUS ON FOR MORE THAN 2 HOURS CUMULATIVELY (ADJUSTABLE) DURING UNOCCUPIED (NSB) OPERATION.

.2 FAN SYSTEM OPERATING IN OCCUPIED MODE OUTSIDE OF ORIGINALLY SCHEDULED MSOSX

.5 THE INITIAL SET UP VALUES FOR ALL ALARMS SHALL BE ESTABLISHED DURING THE COMMISSIONING PROCESS. 11. ADJUSTABLE POINTS (TO BE DISPLAYED ON THE SYSTEM SETTINGS PAGE)

.1 CALENDAR OPERATING SCHEDULE (MSOS) .2 ROOM TEMPERATURE SET POINT (RMT_SP)

.3 OCCUPIED, UNOCCUPIED, VACANCY MODES HEATING/COOLING DEAD-BANDS AND STAGING LIMITS

.4 CO2 SETPOINT AND STAGING LIMITS .5 SUPPLY AIR, MIXED AIR, RETURN AIR, HIGH AND LOW LIMIT .6 MIXED AIR DAMPER MIN POSITION

.7 ROOM/RETURN AIR HUMIDITY SETPOINT, SUPPLY AIR HUMIDITY HIGH LIMIT .8 ALARM SETTINGS - (SETPOINTS AND TIME DELAY PARAMETERS AS NOTED IN 2.3.9 ALARMS) .9 ERW COOLING ENABLE TEMPERATURE

.10 ERW HEATING ENABLE TEMPERATURE





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		1
4	ISSUED FOR TENDER	SEP.20.2023
3	ISSUED FOR CLIENT REVIEW	SEP.07.2023
2	ISSUED FOR CLIENT REVIEW	JULY.24.2023
1	ISSUED 100 % FOR CLIENT REVIEW	MAY.30.2023

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Clarkson Community Centre Renewal

2475 Truscott Drive, Mississauga, ON

City of Mississauga

MECHANICAL CONTROL SEQUENCE

Date	MAY.30.2023	Project No	Drawing No
Drawn I	oy ZH 	CM-22-127	M-401
Scale	AS SHOWN		

				ROOFTOP UNIT	AIR SOURCE	E HEAT PUMP	WITH A	AUXILIARY NAT.GAS HEA	·Τ
			CAPACITY (COOLING/HEATING)	GAS HEATING	SUPPLY FAN	POWER EXHAUST	FRESH AIR	HEAT F	RECOV
N 4 A 1 / E	MADE	0000 400					I I I L CI I / III I		

					CAPACITY (COC	OLING/HEATING)			GAS HEATIN	G	SUPP	LY FAN	POWER	REXHAUST	HEAT RECOVERY FRESH AIR				El	_ECTRIC <i>A</i>	AL		WEIGHT	AIR OPENING LOCATION		
UNIT TAG	MAKE	MODEL	SERVING AREA	NOMINAL (TON)	TOTAL COOLING (MBH) @°F 95 AAT	SENSIBLE (MBH) @95°F AAT	HEATING (MBH) @10°F AAT	INPUT(MBH)	OUTPUT (MBH) MODULATION	E.S.P. (in.wg	AIR FLOW (CFM)	E.S.P. (in.wg	AIR FLOW (CFM)		OA (EDB/EWB)°F	OA (LDB / LWB)°F	RETURN AIR (DB/WB)°F	EFFECTIVENESS TOTAL / SENS. (%)	POWER (V/PH/HZ)			EER	(LBS)	SUPPLY / RETURN	RENARKS
RTU-09A	DAIKIN	DPS020A	GYMNASIUM	20.0	242.6	200.48	135.07	450	360	12:1	1.50	8000	0.50	8000	2000	88.0 /74.0 SUMMER -4 / -5 WINTER	79.2 /67.3 SUMMER 49.2/40.6 WINTER	75.0/62.0 SUMMER 72.0/54.0 WINTER	61.09 / 67.77 SUMMER 69.11 / 69.94 WINTER	575/3/60	52.4	70	10.7	4463	HORIZONTAL	HEAT RECOVERY
RTU-09B	DAIKIN	DPS020A	GYMNASIUM	20.0	242.6	200.48	135.07	450	360	12:1	1.50	8000	0.50	8000	2000	88.0 /74.0 SUMMER -4 / -5 WINTER	79.2 /67.3 SUMMER 49.2/40.6 WINTER	75.0/62.0 SUMMER 72.0/54.0 WINTER	61.09 / 67.77 SUMMER 69.11 / 69.94 WINTER	575/3/60	52.4	70	10.7	4463	HORIZONTAL	HEAT RECOVERY
RTU-10	DAIKIN	DPS004A	ADMINISTRATION AREA	4.0	48.4	40.02	23.83	120	96	2 STAGE	0.50	1600	0.50	1600	400					208/3/60	35.7	45	11.8	1387	воттом	
RTU-11	DAIKIN	DPS005A	ADMINISTRATION AREA	5.0	66.6	52.35	30.43	120	96	2 STAGE	0.50	2000	0.50	2000	400					208/3/60	39.1	50	12.5	1427	воттом	
RTU-12	DAIKIN	DPS020A	YOUTH AND SENIOR RM	20.0	242.6	200.48	135.07	450	360	12:1	1.50	8000	0.50	8000	2000	88.0 /74.0 SUMMER -4 / -5 WINTER	79.2 /67.3 SUMMER 49.2/40.6 WINTER	75.0/62.0 SUMMER 72.0/54.0 WINTER	61.09 / 67.77 SUMMER 69.11 / 69.94 WINTER	575/3/60	52.4	70	10.7	4463	ВОТТОМ	HEAT RECOVERY

NOTE: UNIT TO BE COMPLETE WITH

1.WEATHER PROOF NON-FUSED DISCONNECT SWITCH AND FIELD POWERED 115V GFI OUTLET

2.STAINLESS STEEL HEAT EXCHANGER

3.CURB ADAPTOR TO SUIT EXISTING ROOF CURB FOR RTU-10,11 AND 12. 4.RTU-9A AND RTU-9B TO BE COMPLETE WITH NEW ROOF CURB

5.2" MERV8 & 4" MERV14 FILTERS

6.OUTDOOR AIR HOOD, 0-100% ECONOMIZER WITH ENTHALPY CONTROL, POWER EXHAUSTER, OUTSIDE AIR DAMPER, CONDENSATE P-TRAP AND PROGRAMMABLE THERMOSTAT

7.PROVIDE .TERMINAL STRIP FOR BAS INTEGRATION.

8.PROVIDE SEPARATE PRICE FOR 5 YEARS MANUFACTURER MAINTENANCE WARRANTY (COMPLETE PARTS AND LABOUR)





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No.	Revision	Date

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Project Information

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2475 Truscott Drive, Mississauga, ON

City of Mississauga

MECHANICAL SCHEDULE

Date	MAY.30.2023	Project No	Drawing No
Drawn by	/ ZH	CM-22-127	M-500
Scale	AS SHOWN		