






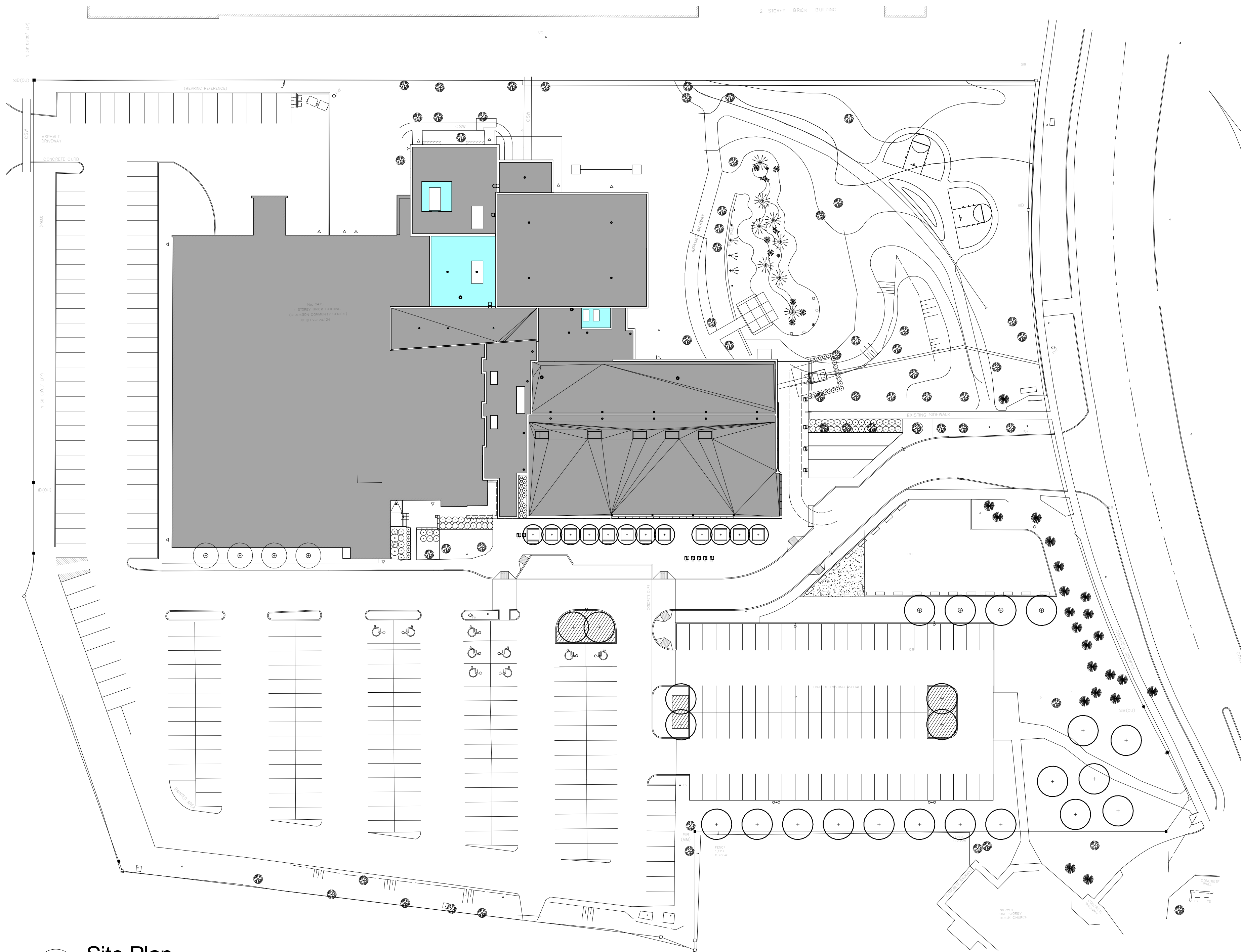
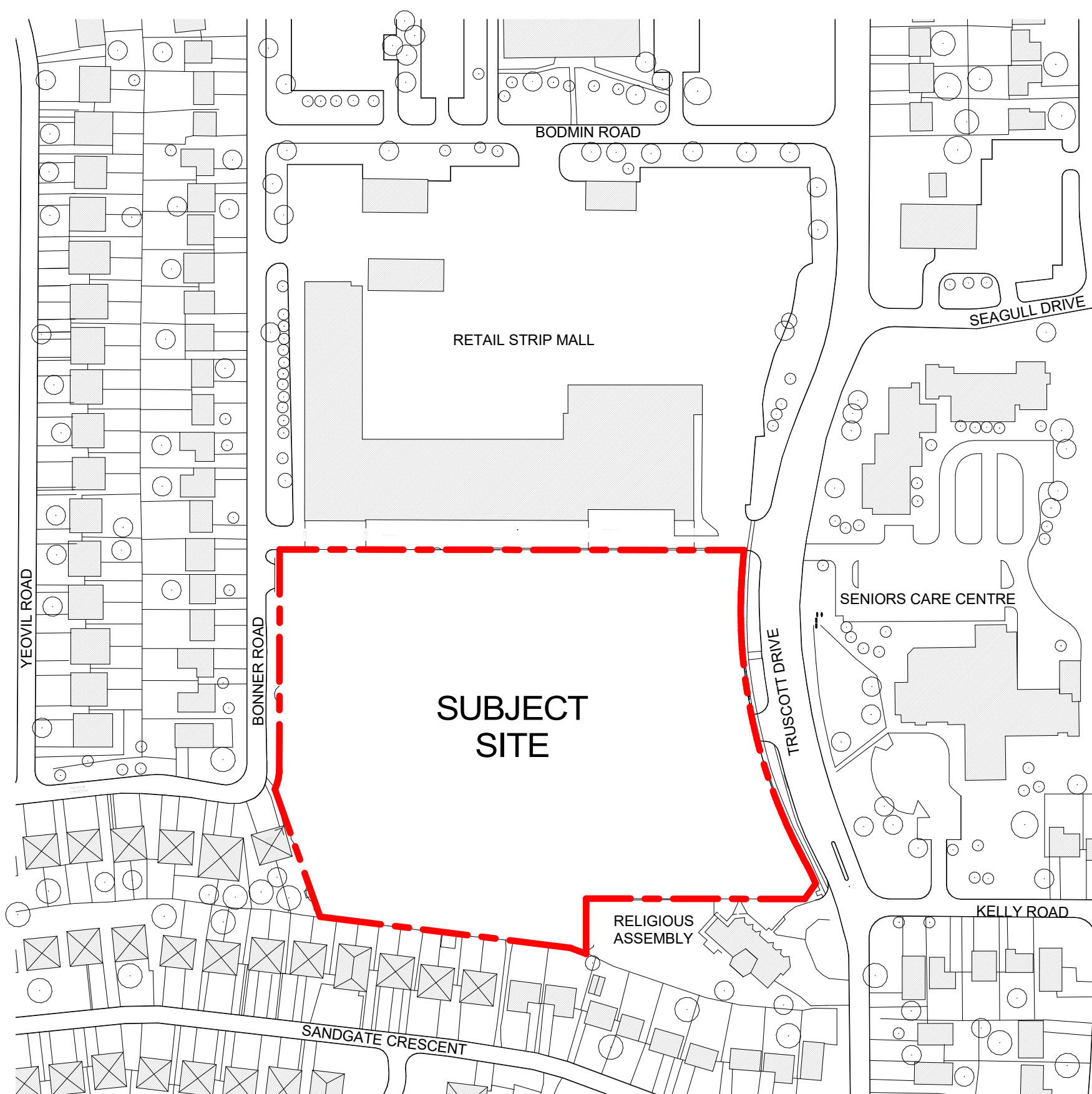
| Drawing List - Mechanical | |
|---------------------------|------------------------------------|
| Sheet Number | Sheet Name |
| M100 | MECHANICAL LEGEND AND DRAWING LIST |
| M200 | HVAC DEMOLITION - MAIN ROOF |
| M201 | HVAC NEW - MAIN ROOF |
| M400 | MECHANICAL DETAILS |
| M500 | MECHANICAL SCHEDULE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

SITE PLAN LEGEND:

- [illegible]

- | | |
|---|--|
|  | POLE MOUNTED LIGHT STANDARD AS PER ELEC. DWGS |
|  | PROPERTY LINE / EXTENT OF CONTRACT |
|  | PART LOT / EASEMENT LINE |
|  | BARRIER FREE CUT CURB |
|  | AREA OF ROOFING WORK |

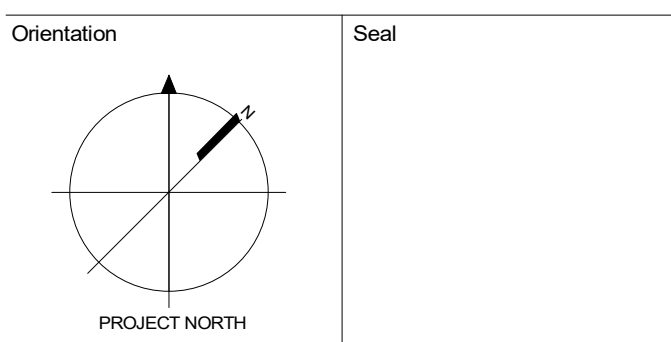
| ITEM | ONTARIO BUILDING CODE DATA MATRIX PART 11 | OBC REFERENCE |
|------|--|--|
| 1 | BUILDING CLASSIFICATION DESCRIBE EXISTING USE CONSTRUCTION INDEX HAZARD INDEX ■ NOT APPLICABLE | 11.2.1 T 11.2.1.1A T 11.2.1.1B TO N |
| 2 | ALTERATION TO EXISTING BUILDING IS ■ BASIC RENO □ EXTENSIVE RENO | 11.3.3.1 11.3.3.2 |
| 3 | REDUCTION IN PERFORMANCE LEVEL STRUCTURAL □ YES ■ NO BY INCREASE IN OCCUPANT LOAD □ YES ■ NO BY CHANGE OF MAJOR OCCUPANCY □ YES ■ NO PLUMBING □ YES ■ NO SEWAGE SYSTEM □ YES ■ NO | 11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 |
| 4 | COMPENSATING CONSTRUCTION STRUCTURAL □ YES ■ NO BY INCREASE IN OCCUPANT LOAD □ YES ■ NO BY CHANGE OF MAJOR OCCUPANCY □ YES ■ NO PLUMBING □ YES ■ NO SEWAGE SYSTEM □ YES ■ NO | 11.4.3 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 |



1 : 2000

GENERAL ABBREVIATION LIST:

| | | | |
|--|---------------------------|----------|------------------------------|
| (NOTE: NOT ALL ABBREVIATIONS ARE USED ON THIS PROJECT) | | | |
| ACI | ACUSTIC CEILING TILE | IFB | INTUMESCENT COATING |
| ALUM | ALUMINUM COMPOSITE PANEL | INSUL | IMPREGNATED FIBERGLASS |
| ARCH | ARCHITECTURAL | ISOL | ISOLATION |
| ASPH | ASPH FLOSHED FLOOR | JT | JOINT |
| AWF | AIR W/POOF BARRIER | JS | JANITOR SHELF |
| BF | BARRIER FEE | LF | LIGHT FIXTURE |
| BF PB | BARRIER FREE PUSH BUTTON | LOW PNT | LOW POINT |
| BL | BLOCK | M | MIRROR |
| BLG | BLOCKING | MAX | MAXIMUM |
| CLG | CEILING | MECH | MACHINE |
| COL | COLUMN | MIN | MINIMUM |
| COLL | BOLLARD | MLT | MLT THERIST |
| CON | CONCRETE | MPS | MOP SINK |
| CBD | CEMENT BOARD | MS | METAL SHELF |
| CHD | CORNER GUARD | MTL | METAL |
| CHD | CHAY GUARD | NC | NURSE CALL |
| CK | CAULK | N.C. | NOT IN CONTRACT |
| CLG | CEILING | N.T.S. | NOT TO SCALE |
| COL | COLUMN | O.C. | ON CENTRE |
| CON | CONCRETE | OH | OVERHEAD |
| CONST | CONSTRUCTION | OWSU | OPEN WEIR STEEL JOIST |
| CONT | CONTINUOUS | PBL | PUSH BUTTON LOCK |
| CR | CORNER | PCS | PANIC BUTTON |
| CR | COURSE | PL | PLYWOOD LAMINATE |
| CR | CERAMIC TILE | PLYWD | PLYWOOD (VENEER CORE) |
| CW | CURTAIN WALL | PREINS | PREINSULATED |
| CW | CURTAIN WALL | PREMANUF | PREMANUFACTURED |
| D | DIAPHER CHANGE STATION | PRC | PRIVATE CURTAIN & ROD |
| DCS | DIAMETER | PS | PULL STATION |
| DEM | DIAMETER | PNT | POINT |
| DIV | DIVISIONS | PTD | PAPER TOWEL DISPENSER |
| DW | DRAWINGS | RDWR | RECYCLED WASTE |
| DWGS | DRAWINGS | RECEP | RECEIPT |
| E | ELECTRICAL | RES | RESERVATIVE PRESSURE TREATED |
| ECR | ELECTRIC CARD READER | R | RADIUS |
| ECH | ELECTRIC LOCK/OPEN | RA | RETURN AIR |
| ELECT | ELECTRICAL | RAO | ROOF ANCHOR |
| ELEV | ELEVATOR | RES | ROOM BOOKING SYSTEM |
| EQ | EQUAL | RFC | ROOM FLOOR CURTAIN |
| ESP | EXPPOSED STRUCTURE | RCB | ROUBER COE BASE |
| EXT | EXTERIOR | REL | RELICATED |
| EXT | EXTERIOR | REQD | REQUIRED |
| FD | FLOOR DRAIN | REC'D | RECEIVED |
| FE | FIRE EXTINGUISHER | ROE | ROOF HOOD |
| FE | FIRE EXTINGUISHER CABINET | RL | RELIEF SUPPLY DRAIN |
| FIN | FINISH | RS | ROOF SHADES |
| FLR | FLOOR | S | LIQUID SOAP DISPENSER |
| FR | FIRE RESISTANCE RATING | SH | SHOWER HEAD |
| FND | FOUNDATION | SHC | SHOWER CONTROL |
| FSD | FOLDING SEAT | SHC | SHOWER CONTROLS |
| G | GALVANIZED | SVC | SANITARY VALVE CONTROL BOX |
| GALV | GALVANIZED | SVC | SANITARY VALVE CONTROL BOX |
| GWS | GYPSSUM WALL BOARD | SPEC | SPECIFIED |
| H | HAND DRYER | SPECD | SPECIFIED |
| H | HOLE BIBB | S.S. | STAINLESS STEEL |
| HDWD | HARDWOOD | STN | STONE |
| HML | HOLLOW METAL | STRCT | STRUCTURAL |
| HORZ | HORIZONTAL | SUSP | SUSPENDED |
| HPT | HIGH POINT | TB | TACK BOARD |
| HPL | HIGH PRESSURE LAMINATE | TELE | TELEPHONE |
| HSD | HOLLOW STEEL | T.O.S. | TOP OF STRUCTURE |
| HSS | HAND SANITIZER DISPENSER | T.O.S. | TOLERANCE HOLDER |
| HGT | HEIGHT | TWN | TOWEL BANNER |
| HWD | HEADWALL | TYP | TYPICAL |
| HWC | HAND WASH CLADDING | U.N.O. | UNLESS NOTED OTHERWISE |
| HWS | HAND WASH SINK | US | UNDERSIDE |
| | | AVB | VAPOR BARRIER |
| | | VERT | VERTICAL |
| | | VEST | VESTIBULE |
| | | VPAB | VAPOR PERMEABLE AIR BARRIER |
| | | WB | WHITE BOARD |
| | | WB | WALL TALK WHITE BOARD |
| | | WC | WATER CLOSET |
| | | WC | WOOD |
| | | WASH | WASH-ROOM |
| | | WPP | Wall Protection Cladding |

[illegible]

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Project Information

Clarkson Community Centre Renewal - Phase 2

2475 Truscott Drive, Mississauga, ON

For
City of Mississauga

Drawing Title

Site Plan

| | | | |
|----------|--------------|------------|------------|
| Date | 2023_09_25 | Project No | Drawing No |
| Drawn by | Author | 22015 | A101 |
| Scale | As indicated | | |



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

| | | | |
|----------|--------------|------------|------------|
| Date | 2023_09_25 | Project No | Drawing No |
| Drawn by | Author | 22015 | A210 |
| Scale | As indicated | | |

1. ALL MECHANICAL ITEMS ON ROOF SUCH AS VENTS, EXHAUSTS, ROOF HOPPERS ETC. ARE TO BE CAREFULLY COORDINATED WITH THE MECHANICAL DRAWINGS & SPECIFICATIONS. PROVIDE FOR ANY ADDITIONAL MECHANICAL OR ELECTRICAL ITEMS NOT SPECIFICALLY INDICATED ON THIS ROOF PLAN.
2. ALL ROOF FLASHINGS ARE TO BE PREFINISHED AT ALL LOCATIONS THROUGHOUT EXCEPT AS NOTED ON THE WALL SECTIONS & DETAILS.
3. ALL ROOF AREAS NOT INCLUDED IN GREEN ROOF ARE TO BE FINISHED WITH TWO PLY MODIFIED BITUMEN ROOFING (WHITE) AS SPECIFIED.

NOTE:
SLOPED ROOF INSULATION SUPPLIER TO PROVIDE MIN. TYP. 2% POSITIVE SLOPE TOWARDS ALL ROOF HOPPERS (RH) IN THEIR DESIGN. LAYOUT SHOWN ON THIS ROOF PLAN IS DIAGRAMMATIC ONLY & IS SUPPLIED ONLY TO ASSIST THE SLOPED INSULATION SUPPLIER IN "THEIR" DESIGN.

RHO ○ ROOF DRAIN WITH OVERFLOW AS PER MECH. DW'GS, TOP OF PIPE TO BE MAX. 150mm ABOVE ROOF LOW POINT

 TYPICAL ROOF HOPPER AS PER MECH. DWG. CW SUMP

RA APPROXIMATE ROOF ANCHOR LOCATION.

AREAS OF ROOF SHOWN HATCHED AS PER NOTES ON THIS PAGE. REMOVE ROOFING SYSTEM DOWN TO STRUCTURAL DECK AND PREP FOR INSTALLATION OF NEW ROOF TYPE RFI

ANY DEFICIENCIES WITH THE EXISTING STRUCTURAL DECK ARE TO BE FLAGGED TO THE CONSULTANT UPON DISCOVERY.

REFER TO TYPICAL ROOF DETAILS ON A212 AND MANUFACTURER
RECOMMENDATIONS AND REQUIREMENTS FOR CONDITIONS AT OPENINGS AND
PENETRATIONS OF ROOF ASSEMBLY.

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.

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

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

[illegible]

| No. | Revision | Date |
|-----|----------|------|
|-----|----------|------|

| No. | Revision | Date |
|-----|----------|------|
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Orientation



Seal

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Project Information

Clarkson Community
Centre Renewal - Phase 2

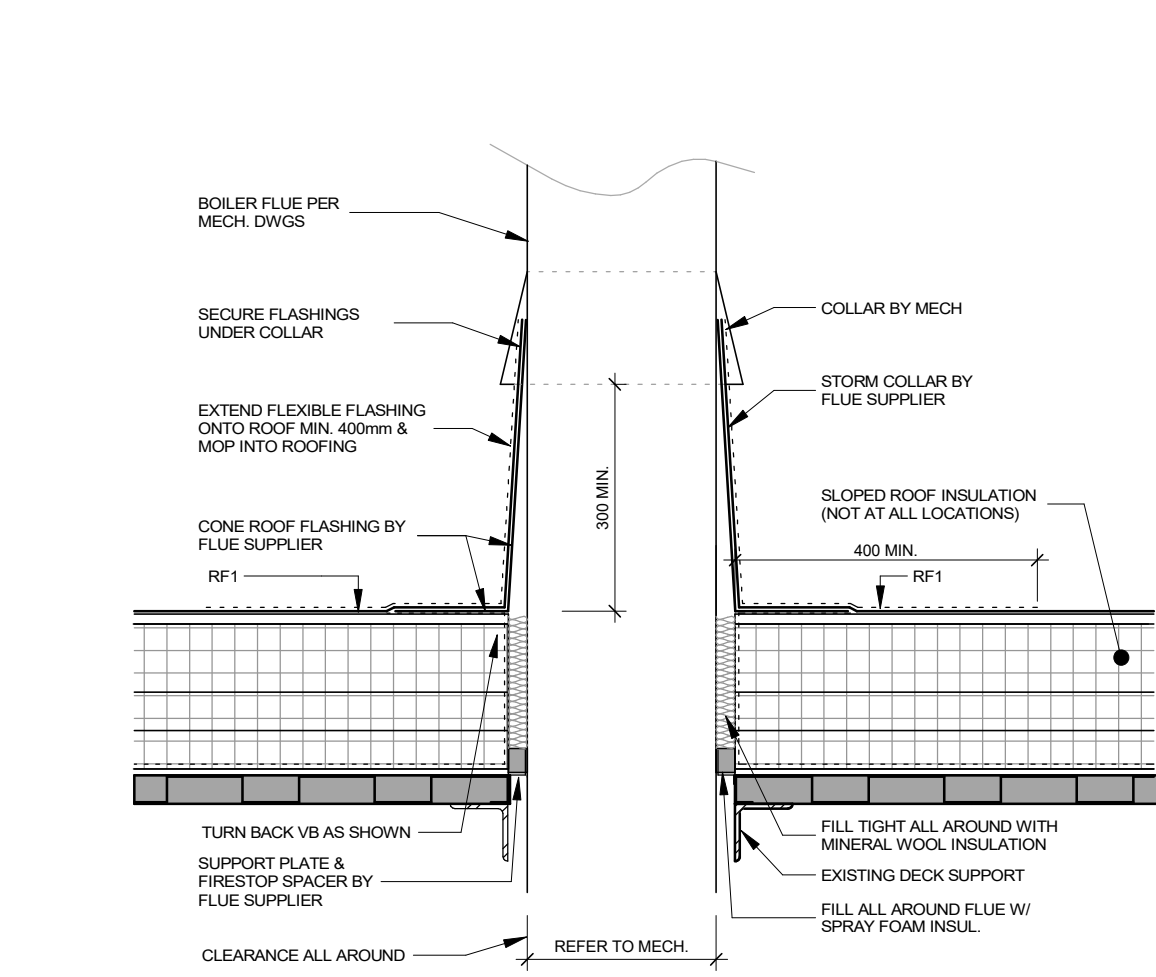
2475 Truscott Drive, Mississauga, ON

For
City of Mississauga

Drawing Title

Roof Plan

| | | | |
|----------|--------------|------------|------------|
| Date | 2023_09_25 | Project No | Drawing No |
| Drawn by | Author | 22015 | A211 |
| Scale | As indicated | | |



Technical cross-section diagram of a roof assembly showing HVAC unit penetration details. The diagram illustrates the following components and specifications:

- HVAC UNIT PER MECH. DWGS.**: Points to the HVAC unit above the roof.
- VIBRATION ISOLATION PAD BY MECH**: A pad supporting the HVAC unit.
- A.C. UNIT CHANNEL BY MECHANICAL**: A channel supporting the vibration pad.
- PREFIN. METAL COUNTER FLASHING AS SPECIFIED**: The main counter-flashing layer.
- LOCK SEAM**: The joint between the counter-flashing and the curb.
- PRE FAB INSULATED METAL CURB PER MECH. ANCHORED TO DECK**: The curb supporting the counter-flashing.
- RF-1**: The waterproofing membrane on the deck.
- CARRY ROOFING UP & OVER CURB**: The main roof decking.
- FLEXIBLE FLASHING UP & OVER CURB. MOIP INTO ROOFING.**: A secondary flashing layer.
- 90/90 CANT STRIP ALL AROUND**: A cant strip at the curb edge.
- 300 MIN. NTS**: Minimum 300mm dimension for the curb height.
- V.B. TO BE CONT. UNINTERRUPTED**: Vertical break line indicating the curb continues.
- RF-1**: The waterproofing membrane on the curb.

Diagram illustrating the cross-section of a roof assembly, showing existing structure and new construction details.

Existing Structure (Right Side):

- PRE-PAINTED STEEL FLASHING TO MATCH EXISTING
- EXISTING WOOD BLOCKING AND PLYWOOD
- EXISTING PARAPET

New Construction Details (Left Side):

- ROOFING MEMBRANE ADHERED UP AND OVER EXISTING PARAPET
- PRE FINISHED METAL FLASHING OVER PEEL AND STICK MEMBRANE
- 13mm PRESSURE TREATED PLYWOOD (WOOD BLOCKING AS REQUIRED)
- 50/50 CANT STRIP ALL AROUND

NEW ROOF TYPE 1:

- 2 PLY ADHESED BETWEEN ROOFING
- BMM PROTECTION BOARD
- TAPERED INSULATION
- 2 LAYERS OF 75MM POLYSTYRENE INSULATION
- CONTINUOUS A/B
- ROOF SHEATHING BOARD
- EXISTING STRUCTURAL DECK (WOOD OR METAL)

EXISTING STRUCTURE (Bottom Left)

PRE-PAINTED STEEL FLASHING TO MATCH EXISTING

EXISTING PLYWOOD AND BLOOMING AT TOP OF PARAPET IS NOT CONNECTED TO THE BRICK VENEER

EXISTING PARAPET

ROOFING MEMBRANE EXTEND UP AND OVER PARAPET

PRE-FINISHED METAL FLASHING OVER PEEL AND STICK MEMBRANE

13mm PRESSURE TREATED PLYWOOD (WOOD BLOOMING AS REQUIRED)

90X90 CANT STRIP ALL AROUND

NEW ROOF TYPE 1:
 2 PLY MODIFIED BITUMEN ROOFING
 8MM PROTECTION BOARD
 TAPERED INSULATION
 2 LAYERS OF 75MM POLYSTYRENE INSULATION
 CONTINUOUS AVB
 ROOF SHEATHING BOARD
 EXISTING STRUCTURAL DECK (WOOD OR METAL)

600 1200 x 1200 SUMP 600

SLOPED ROOF INSULATION

ROOF DRAIN - REFER TO MECHANICAL DRAWINGS

FLANGE ALL AROUND

RT1

SLOPE

NOTE: METAL DECK, PRECAST ROOF SLABS OR POURED CONCRETE AS PER ROOF PLAN AND DETAILS

AROUND ALL DRAINS PLACE & TAPER INSULATION TO MINIMUM THICKNESS OF 50mm AT ROOF DRAIN

CO-ORDINATE DECK AND PRECAST OPENING SIZES & LOCATIONS WITH MECHANICAL DRAWINGS

CONFIRM

CANT STRIP ALL AROUND

NEW ROOF TYPE 1
 2 PLY MODIFIED BITUMEN ROOFING
 8MM PROTECTION BOARD
 1/2" (12.5MM) POLYSTYRENE INSULATION
 2 LAYERS OF 75MM POLYISOCYANURATE INSULATION
 CONTINUOUS AVB
 ROOF SHEETING BOARD
 EXISTING STRUCTURAL DECK (WOOD OR METAL)

PREFINISHED STEEL FLASHING TO MATCH EXISTING

ROOF MEMBRANE TO EXTEND UP AND OVER EXISTING PARAPET

13mm EXTERIOR GRADE PLYWOOD ON WOOD BLOCKING AS REQUIRED.

PARAPET WALL (EXISTING)
 90 BRICK VOWER ON FLUTED BLOCK
 25 AIR SPACE CLEAR FROM ALL MORTAR
 75 ROCK WOOL LAMELLA
 AVB BARRIER MEMBRANE
 13 PRESSURE TREATED PLYWOOD
 92 WIND LOAD BEARING STEEL STUDS AND BATT INSULATION
 13 PRESSURE TREATED PLYWOOD ROOFING MEMBRANE FLASHING

TYP. EXTERIOR WALL (EXISTING)
 90 BRICK VOWER ON FLUTED BLOCK
 25 AIR SPACE CLEAR FROM ALL MORTAR
 75 ROCK WOOL LAMELLA
 AVB BARRIER MEMBRANE
 CONCRETE BLOCK

ACRYLIC OUTER DOME
AS SPECIFIED

ALUM. RETAINING ANGLE

CARRY ROOFING UP
& OVER CURB

FLEXIBLE FLASHING
UP & OVER CURB,
MOP INTO ROOFING

PRE FAB INSULATED METAL CURB
PER MECH. ANCHORED TO DECK

K90 CANT STRIP
1/2" AROUND

WHERE PROPOSED
SKYLIGHTS ARE
REPLACED, PATCH AND
MAKE GOOD INTERIOR
FINISH TO MATCH
EXISTING (TYP.)

AVB TO BE CONT. UNDER CURB

EXISTING STRUCTURE

EXISTING ROOF TO REMAIN

EXISTING PARAPET TO REMAIN

EXISTING STRUCTURE

90/90 CANT STRIP ALL AROUND

ADHERE ROOF MEMBRANE UP AND OVER EXISTING PARAPET.

PREFINISHED METAL FLASHING TO MATCH EXISTING

NEW ROOF TYPE 1:
 2 PLY MODIFIED BITUMEN ROOFING
 8MM PROTECTION BOARD
 TAPERED INSULATION
 2 LAYERS OF 50MM POLYISOCYANURATE INSULATION
 CONTINUOUS AIR BARRIER AS SPECIFIED
 ROOF SHEATHING BOARD
 EXISTING STRUCTURAL DECK (WOOD OR METAL)

11
A212

| | | | |
|----------|------------|------------|------------|
| Date | 2023_09_25 | Project No | Drawing No |
| Drawn by | Author | 22015 | A212 |
| Scale | 1 : 10 | | |



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| 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 |

| | |
|-------------|------|
| Orientation | Seal |
|-------------|------|



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Project Information

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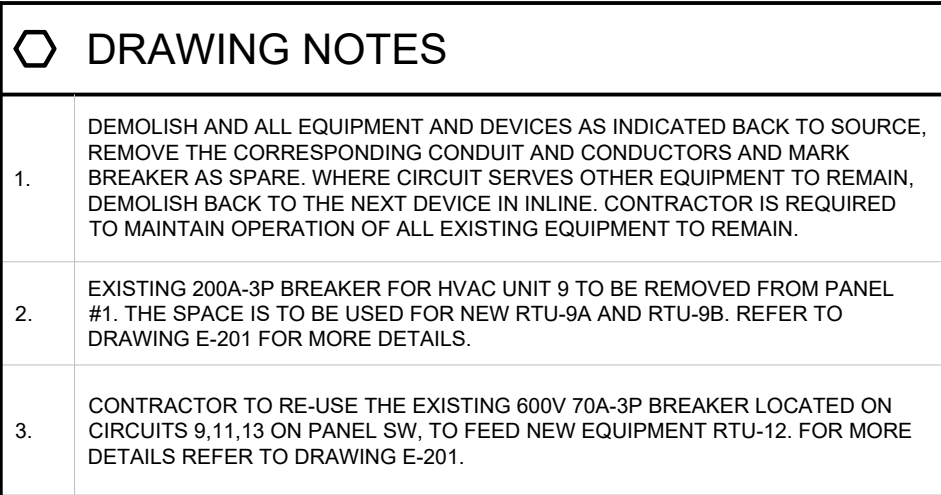
For
City of Mississauga

| | | | |
|----------|-------------|------------|------------|
| Date | MAY.30.2023 | Project No | Drawing No |
| Drawn by | ZH | | |
| Scale | AS SHOWN | | |

| ELECTRICAL LEGEND | |
|---|--|
| SYMBOL | DESCRIPTION |
|  | SHEET KEYNOTE |
|  | REVISION NUMBER |
| <p>THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.</p> | |
| Sheet List Table | |
| Sheet Number | Sheet Title |
| E-001 | ELECTRICAL LEGEND AND DRAWING LIST |
| E-200 | POWER & SYSTEMS - DEMOLITION - MAIN ROOF |
| E-201 | POWER & SYSTEMS - NEW WORK - MAIN ROOF |
| E-300 | ELECTRICAL DETAILS |
| E-400 | ELECTRICAL SINGLE LINE DIAGRAM |
| E-500 | ELECTRICAL SCHEDULES |

Sheet List Table

| Sheet Number | Sheet Title |
|--------------|--|
| E-001 | ELECTRICAL LEGEND AND DRAWING LIST |
| E-200 | POWER & SYSTEMS - DEMOLITION - MAIN ROOF |
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| E-400 | ELECTRICAL SINGLE LINE DIAGRAM |
| E-500 | ELECTRICAL SCHEDULES |

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| No. | Revision | Date |
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| | |
|-------------|------|
| Orientation | Seal |
|-------------|------|

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Project Information

Clarkson Community
Centre Renewal

2475 Truscott Drive, Mississauga, ON

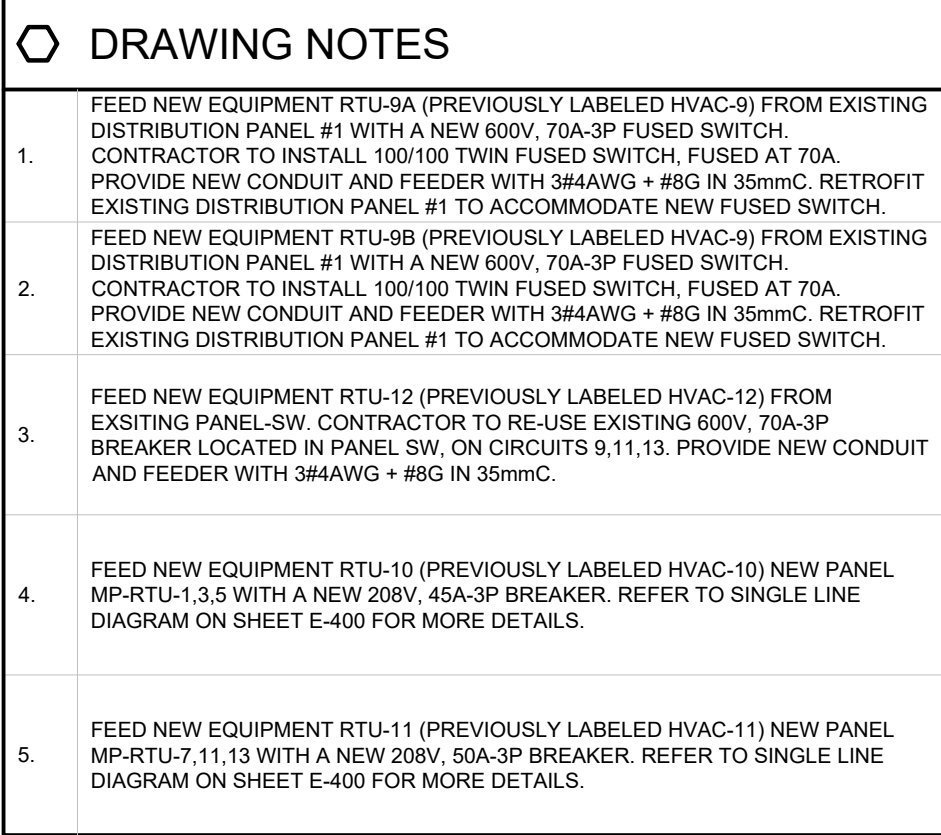
For _____
City of Mississauga

Drawing Title

POWER & SYSTEMS -
DEMOLITION - MAIN ROOF

| | | | |
|----------|-------------|------------|------------|
| Date | MAY.30.2023 | Project No | Drawing No |
| Drawn by | ZH | | |
| Scale | AS SHOWN | | |

CM-22-127 E-200

[illegible]

| | | |
|-----|----------|------|
| No. | Revision | Date |
|-----|----------|------|

| | |
|-------------|------|
| Orientation | Seal |
|-------------|------|

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Clarkson Community Centre Renewal

2475 Truscott Drive, Mississauga, ON

For _____
City of Mississauga

Drawing Title

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 | | |



TRANSFORMER

WALL BRACKETS BOLTED TO WALL

MOUNT TRANSFORMERS ON VIBRATION ISOLATORS ON (KORFUND OR EQUAL)

ALL JOINTS TO BE WELDED, TYPICAL

GENERAL DETAIL NOTES:

1. PROVIDE MINIMUM 175 mm (7") CLEARANCE TO WALL FOR CONDUIT RISERS.

PANEL WIDTH OR
1000 mm [3'-3"]
WHICHEVER IS
GREATER

2000 mm [6'-7"]

PANEL IS NOT REQUIRED TO BE
CENTRED IN THE 1000 mm
WIDTH OF THE WORKING
SPACE.

PANEL DEPTH
+ 1000 mm [3'-3"]

REFERENCES:

1. 2018 ONTARIO ELECTRICAL SAFETY CODE (OESC), RULE 2-308(1) (OR LATEST EDITION)
2. OESC BULLETIN 2-9-(LATEST VERSION)

ISOMETRIC (NTS)

FRONT VIEW

SIDE VIEW

TOP VIEW

MIN 750 mm [2' 5 1/2"]

FREESTANDING CONDUIT PEDESTAL OR CONDUIT SECURED TO STRUT CHANNEL

BOLTED DOWN TO PAVER

PAVER ON POLYSTYRENE FOAM SUPPORT

PVC CONDUIT ON TOP OF ROOF SEE NOTE 3

NOTES:

1. PROVIDE WP GFI 5-20R @ 750 mm (30") ABOVE FINISHED ROOF LEVEL CW WET LOCATION COVER PLATE. TYPICAL. LOCATE WITHIN 7500 mm (25 FT) OF NEW HVAC EQUIPMENT, AND AT LEAST 2000 mm (6.5 FEET) AWAY FROM ROOF LINE. COVER PLATE TO BE MARKED "EXTRA DUTY". REFER TO 2018 OESC RULES 2-316, 26-708, AND 26-710, AND OESC BULLETIN 26-27*, OR LATEST EDITION.
2. LABEL RECEPTACLE WITH PHENOLIC (LAMACOID) NAMEPLATE WITH PANELBOARD ID, CIRCUIT NUMBER, AND PANELBOARD LOCATION.
3. PROVIDE CONDUIT SUPPORTS ON ROOF: MOUNT CONDUITS ON SUPPORT BASE, BASIS OF DESIGN THOMAS & BETTS SUPERSTRUT SERIES ADJUSTABLE UNIVERSAL SUPPORT, OR EQUAL. SUPPORT CONDUITS MINIMUM 2438 mm (8 FEET) ON CENTRE.

CODE REFERENCES (REFER TO 2018 OESC RULES 2-316, 26-708, AND 26-710, AND OESC BULLETIN 26-27*), OR LATEST CODE EDITION:

1. HVAC EQUIPMENT MAINTENANCE RECEPTACLE INSTALLED ON ROOF (2018 OESC RULE 2-316).
2. GFCI PROTECTED (2018 OESC 26-710(a)).
3. DEDICATED FOR "HVAC MAINTENANCE" (2018 OESC 26-710(b)).
4. CSA CONFIGURATION 5-20R (2018 OESC 26-710(c)).
5. LOCATED WITHIN 7500 mm OF THE ROOFTOP EQUIPMENT (2018 OESC 26-710(d)).
6. NOT LESS THAN 750 mm (30") ABOVE THE FINISHED ROOF LEVEL (2018 OESC 26-710(e)).
7. PROTECT FROM MECHANICAL DAMAGE (2018 OESC 26-710(f)).
8. LOCATE MINIMUM 1800 mm (6 FEET) AWAY FROM ROOF LINE. REFER TO FALL ARREST LEGISLATION.
9. WET LOCATION COVER PLATE TO BE "WHILE IN USE TYPE", MARKED "EXTRA DUTY" (2018 OESC 26-708(2)).
10. SECURE COVER PLATE TO OUTLET BOX BY FOUR SCREWS OR EQUIVALENT MEANS (2018 OESC 26-708(4)).

BRACKET

100 mm (4")

VIBRATION ISOLATOR, TYPICAL OF ALL FOUR CORNERS, BY KORFUND OR EQUAL.

100 mm (4") THICK CONCRETE BASE HOUSEKEEPING PAD BY ELECTRICAL CONTRACTOR

FLOOR LINE

DRY TYPE TRANSFORMER

The diagram illustrates the installation of a dry type transformer. A 3D perspective view shows the transformer resting on a concrete base. A detailed cross-section view shows the transformer's base supported by four vibration isolators, which are mounted on a 100 mm (4") thick concrete base. A bracket is shown supporting the transformer's top. The floor line is indicated below the concrete base.

NOTES:

1. ELECTRICAL CONTRACTOR TO INSTALL PANEL MP-RTU IN STORAGE ROOM 2 ON THE WALL NEXT TO THE EXISTING SPLITTER.
2. ELECTRICAL CONTRACTOR TO INSTALL THE 75 KVA TRANSFORMER TX-RTU IN STORAGE ROOM 2. TRANSFORMER TO BE LOCATED NEXT TO THE PANEL MP-RTU AS SHOWN IN THE ELEVATION DETAIL BELOW.
3. ALL ITEMS TO BE REMOVED FROM THE EXISTING SHELF. EXISTING SHELF TO BE DEMOLITIONED AND REMOVED. NO OBJECT SHOULD BE PLACED ABOVE NEW ELECTRICAL PANEL AND TRANSFORMER

FINISHED CEILING

FINISHED FLOOR

NEW PANEL
MP-RTU
120/208V
3PH, 4W
400A BUS
24CCT

TX-RTU

EXISTING PANEL

EXISTING SPLITTER

EXISTING TRANSFORMER

EXISTING

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| Orientation | Seal |
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Project Information

Clarkson Community
Centre Renewal

2475 Truscott Drive, Mississauga, ON

For _____
City of Mississauga

Drawing Title

ELECTRICAL DETAILS

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



250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
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| CIR NO. | DESCRIPTION | WATTAGE | | | BRK R | Ø | BRK R | WATTAGE | | | DESCRIPTION | CIR NO. |
|---------|-------------|---------|----|----|-------|---|-------|---------|----|----|-------------|---------|
| | | ØA | ØB | ØC | | | | ØA | ØB | ØC | | |
| 1 | RTU-10 | 0 | - | - | | A | | 0 | - | - | | 2 |
| 3 | | - | 0 | - | 45A | B | | - | 0 | - | | 4 |
| 5 | | - | - | 0 | | C | | - | - | 0 | | 6 |
| 7 | RTU-11 | 0 | - | - | | A | | 0 | - | - | | 8 |
| 9 | | - | 0 | - | 50A | B | | - | 0 | - | | 10 |
| 11 | | - | - | 0 | | C | | - | - | 0 | | 12 |
| 13 | | 0 | - | - | | A | | 0 | - | - | | 14 |
| 15 | | - | 0 | - | | B | | - | 0 | - | | 16 |
| 17 | | - | - | 0 | | C | | - | - | 0 | | 18 |
| 19 | | 0 | - | - | | A | | 0 | - | - | | 20 |
| 21 | | - | 0 | - | | B | | - | 0 | - | | 22 |
| 23 | | - | - | 0 | | C | | - | - | 0 | | 24 |
| 25 | | 0 | - | - | | A | | 0 | - | - | | 26 |
| 27 | | - | 0 | - | | B | | - | 0 | - | | 28 |
| 29 | | - | - | 0 | | C | | - | - | 0 | | 30 |
| 31 | | 0 | - | - | | A | | 0 | - | - | | 32 |
| 33 | | - | 0 | - | | B | | - | 0 | - | | 34 |
| 35 | | - | - | 0 | | C | | - | - | 0 | | 36 |
| 37 | | 0 | - | - | | A | | 0 | - | - | | 38 |
| 39 | | - | 0 | - | | B | | - | 0 | - | | 40 |
| 41 | | - | - | 0 | | C | | - | - | 0 | | 42 |

NOTES:

- * - PROVIDE LOCKABLE BREAKER
- ** - PROVIDE GFI TYPE BREAKER
- *** - COORDINATE EXACT BREAKER SIZE WITH EQUIPMENT SHOP DRAWINGS
- R - RECEPTACLE
- L - LIGHTING

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

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| 4 | ISSUED FOR TENDER | SEP 26 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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Project Information

Clarkson Community Centre Renewal

2475 Truscott Drive, Mississauga, ON

For
City of Mississauga

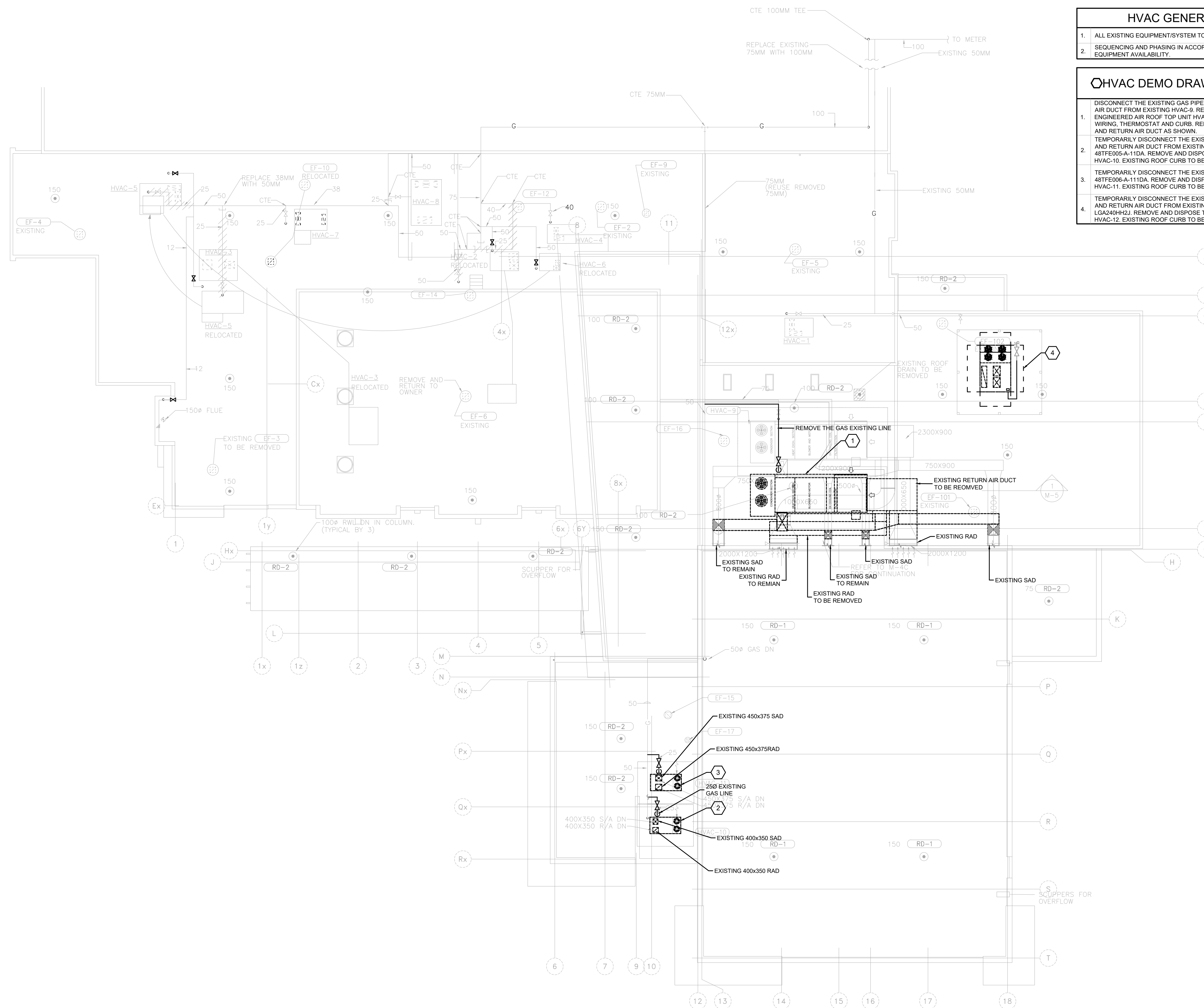
Drawing Title

ELECTRICAL SCHEDULES

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| Date | MAY.30.2023 | Project No | Drawing No |
| Drawn by | ZH | | |
| Scale | AS SHOWN | | |

CM-22-127

E-500



HVAC GENERAL NOTES

- | | |
|----|--|
| 1. | ALL EXISTING EQUIPMENT/SYSTEM TO REMAIN UNLESS NOTED. |
| 2. | SEQUENCING AND PHASING IN ACCORDANCE WITH ROOF REPLACE AND EQUIPMENT AVAILABILITY. |

HVAC DEMO DRAWING KEYNOTES

1. DISCONNECT THE EXISTING GAS PIPE. SUPPLY AIR DUCT AND RETURN AIR DUCT FROM EXISTING HVAC-9. REMOVE AND DISPOSE THE EXISTING ENGINEERED AIR ROOF TOP UNIT HVAC-9 GWS ASSOCIATED CONTROL WIND WALL COMBUST. REMOVE AND DISPOSE THE EXISTING GAS PIPE AND RETURN AIR DUCT AS SHOWN.
2. TEMPORARILY DISCONNECT THE EXISTING GAS PIPE. SUPPLY AIR DUCT AND RETURN AIR DUCT FROM EXISTING HVAC-10. REMOVE AND DISPOSE THE EXISTING ROOF TOP UNIT HVAC-10. EXISTING ROOF CURB TO BE REMAIN AND REUSE.
3. TEMPORARILY DISCONNECT THE EXISTING HVAC-11 CARRIER MODEL 48TFF005-1A. REMOVE AND DISPOSE THE EXISTING ROOF TOP UNIT HVAC-11. EXISTING ROOF CURB TO BE REMAIN AND REUSE.
4. TEMPORARILY DISCONNECT THE EXISTING GAS PIPE. SUPPLY AIR DUCT AND RETURN AIR DUCT FROM EXISTING HVAC-12 LENOXO MODEL L0A24H02J. REMOVE AND DISPOSE THE EXISTING ROOF TOP UNIT HVAC-12. EXISTING ROOF CURB TO BE REMAIN AND REUSE.

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Project Information

**Clarkson Community
Centre Renewal**

2475 Truscott Drive, Mississauga, ON

For
City of Mississauga

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| Drawing Title |
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HVAC DEMOLITION - MAIN ROOM

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| Date | MAY.30.2023 | Project No | Drawing No |
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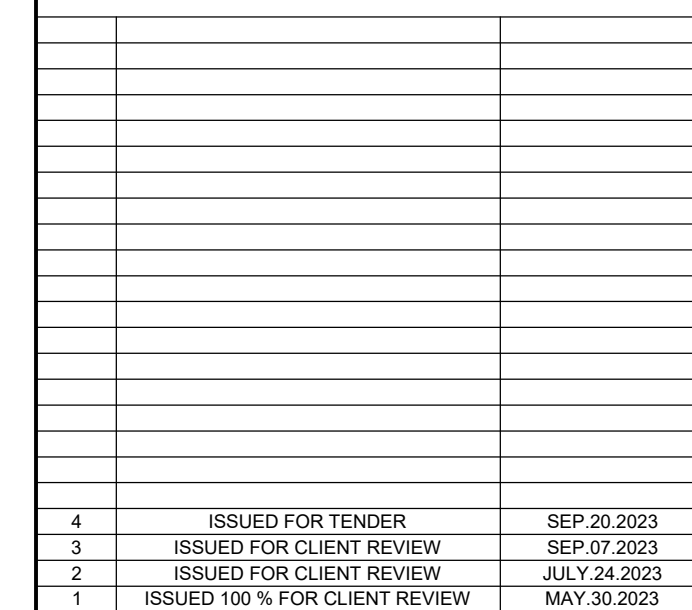
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| CM-22-127 | M-20 |
| Scale | |



| HVAC GENERAL NOTES | |
|--------------------|--|
| 1. | ALL EXISTING EQUIPMENT/SYSTEM TO REMAIN UNLESS NOTED. |
| 2. | ALL GAS FIRED EQUIPMENTS AND VENTING SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODE AND MANUFACTURER'S INSTRUCTION. |
| 3. | PROVIDE METAL ALUMINIUM JACKETING" ON 2" THICK INSULATION FOR ALL OUTSIDE DUCTWORKS. |
| 4. | PROVIDE ACOUSTIC LINING TO ALL NEW SUPPLY AIR DUCT. DUCT SUPPORT SHALL BE PPH OR FROM MIRO INDUSTRIY. |

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| 1. | <p>PROVIDE AND INSTALL NEW ROOF TOP UNIT HVAC-9A, HVAC-9B AT NEW CURBS AS PER MANUFACTURER RECOMMENDATION, CONTRACTOR TO ENGAGE THE SERVICES OF THE BASE BUILDING ROOFING CONTRACTOR TO DO ALL ROOF WORK REQUIRED.</p> <p>2. INSTALL NEW SUPPLY AND RETURN DUCTS AND CONNECT BACK THE SUPPLY/RETURN DUCT AND GAS LINE AS SHOWN. PROVIDE AND INSTALL NEW EXHAUST AT THE EXISTING EXHAUST LOCATION. PROVIDE AND INSTALL TO BE LOCATED IN GYM, EXACT LOCATION/LOCATION TO BE DETERMINE ON SITE.</p> <p>3. PROVIDE AND INSTALL NEW ROOF TOP UNIT HVAC-10, PROVIDE CURB ADAPTER (MAX 350MM HIGH) TO SUIT EXISTING CHARGIO UNIT MODEL 48TFE05GA. CONNECT BACK THE SUPPLY/RETURN DUCT, CONTROL WIRING AND GAS LINE. ALLOW ADDITIONAL FITTINGS FOR DUCTWORK AND GAS PIPE TO COMPLETE THE INSTALLATION.</p> <p>4. PROVIDE AND INSTALL NEW ROOF TOP UNIT HVAC-11, PROVIDE CURB ADAPTER (MAX 350MM HIGH) TO SUIT EXISTING CHARGIO UNIT MODEL 48TFE05GA. CONNECT BACK THE SUPPLY/RETURN DUCT, CONTROL WIRING AND GAS LINE. ALLOW ADDITIONAL FITTINGS FOR DUCTWORK AND GAS PIPE TO COMPLETE THE INSTALLATION.</p> <p>5. PROVIDE AND INSTALL NEW ROOF TOP UNIT HVAC-12, PROVIDE CURB ADAPTER (MAX 350MM HIGH) TO SUIT EXISTING LENNOX UNIT MODEL LG240 DHQ3. CONNECT BACK THE SUPPLY/RETURN DUCT, CONTROL WIRING AND GAS LINE. ALLOW ADDITIONAL FITTINGS FOR DUCTWORK AND GAS PIPE TO COMPLETE THE INSTALLATION.</p> <p>6. ALL EXISTING INSULATION ON ROOF ASSOCIATED TO GYM ROOF TOP UNIT TO BE REMOVED AND REPLACE WITH NEW, ALL OUT SIDE DUCTWORKS TO BE NEW INSULATION AND ALUMINUM (METAL) CLADDING FOR WEATHER PROOFING (TYP)</p> |
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Project Information

Clarkson Community Centre Renewal

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City of Mississauga

Drawing Title

HVAC NEW - MAIN ROOF

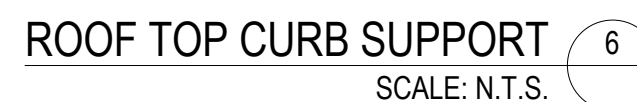
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CM-22-127

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Project Information

Clarkson Community Centre Renewal

2475 Truscott Drive, Mississauga, ON

City of Mississauga

MECHANICAL DETAILS

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| Date | MAY.30.2023 | Project No | Drawing No |
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MECHANICAL SCHEDULE

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