CLIENT:

Fort Erie International Academy

7 Tait Avenue

Fort Erie, ON L2A 3P1

DRAWING LIST:

Architectural

- A1-1 Overall Reference and Fire Rating Plans
- A2-1 Localized Demolition Plans
- A2-2 Localized Revised Plan and Kitchen Equipment List
- A2-3 Localized Revised Reflected Ceiling Plan and Detail
- A3-1 Elevations, Cross Section and Details
- A4-1 Interior Elevation and Millwork Details
- SC-1 Door, Room Finish Schedules and Specification

Mechanical

- M0.0 Mechanical Legend and Drawing List
- M1.0 Overall Ground and Second Floor Plans
- M1.1 Overall Roof Level Plan
- M2.0 Ground Floor Plumbing, Drainage and HVAC Demolition Plan
- M3.0 Ground Floor New Plumbing and Drainage Plan
- M4.0 Ground Floor New HVAC and Second Floor New Part Plumbing Plan
- M5.0 Mechanical Details
 - 5.1 Mechanical Details
- M6.0 Mechanical Schedules
- ME1.0 Mechanical and Electrical Schedules

Electrical

- E0.0 Electrical Legend and Drawing List
- E1.0 Electrical Specification and Demolition and General Notes
- E2.0 Electrical Ground Floor Overall and Demolition
- E2.1 Electrical Ground Floor Plans New Lighting and Power and Systems
- ME1.0 Mechanical and Electrical Schedules

New Kitchen for

Fort Erie International Academy

7 Tait Avenue

Fort Erie, ON



Project # 2345

Issued for Tender February 8, 2024

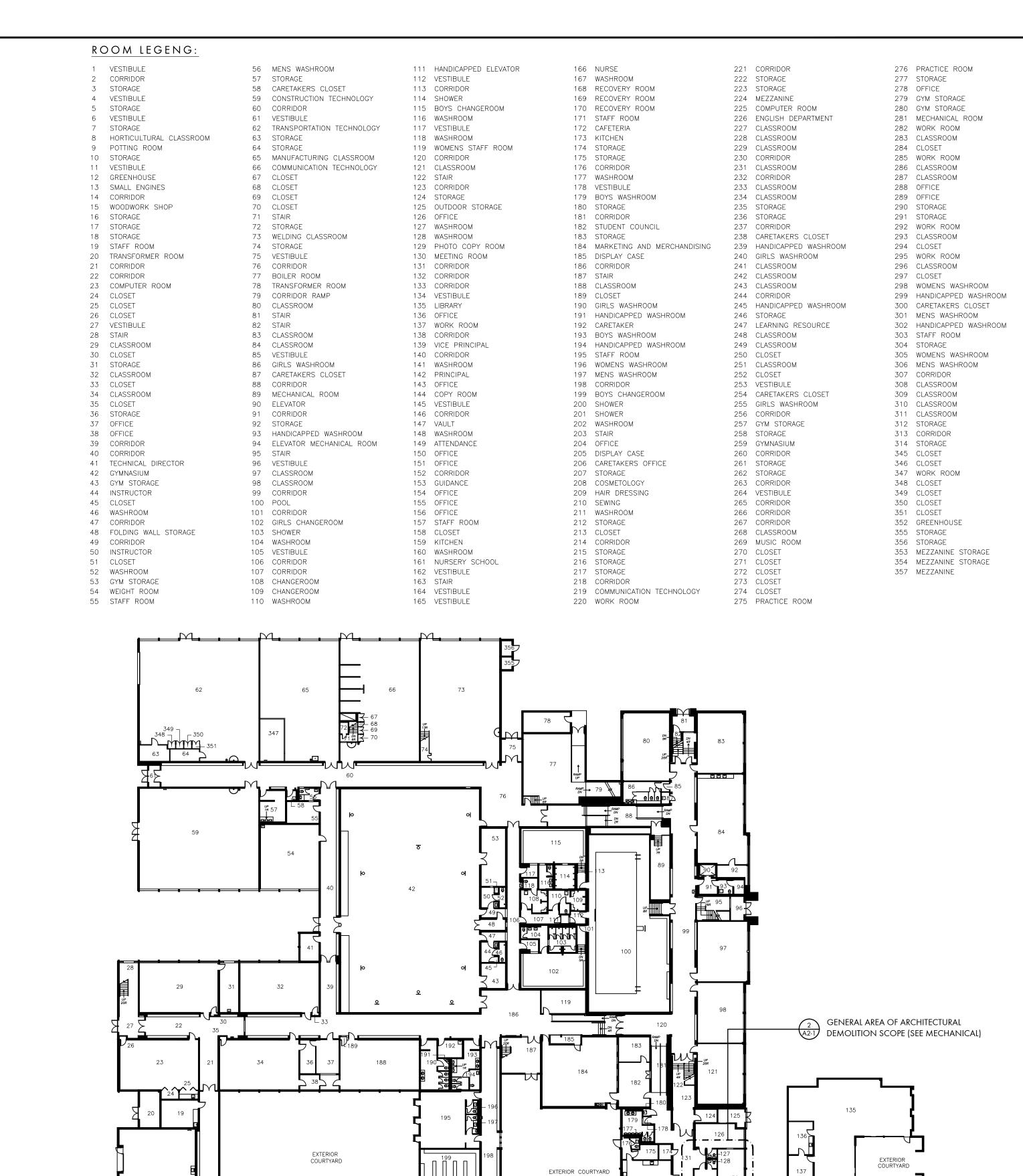
Architects Inc.

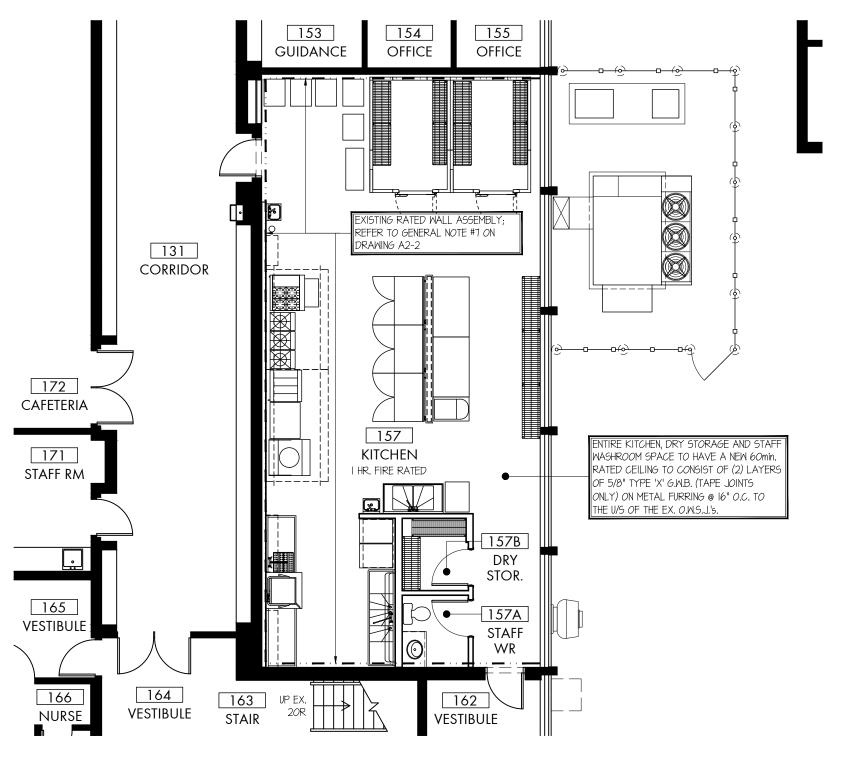
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ST. CATHARINES
ONTARIO L2R 5J5

905-688-6087

admin@whitelinearchitects.com

www.whitelinearchitects.com





LOCALIZED FIRE RATING PLAN: Ground

OVERALL REFERENCE PLAN: Ground

SCALE: 1/32" = 1'-0"

GENERAL AREA OF ARCHITECTURAL RENOVATION SCOPE

(MECHANICAL & ELECTRICAL SCOPE

MAY EXPAND BEYOND THIS AREA)

THESE DRAWINGS ARE NOT TO BE SCALED

ALL DRAWINGS, THE DESIGN, AND THE DETAILS
THESE ON DEMAIN THE PROPERTY OF THE

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THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MUST CONFIRM & CORRELATE ALL DETAILS WITHIN THE FULL DRAWING PACKAGE BEING RESPONSIBLE FOR SAME THROUGHOUT CONSTRUCTION, REPORTING ANY

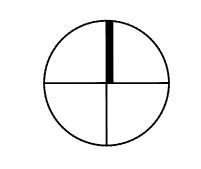
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BY THE ARCHITECT AND NOTED ACCORDINGLY IN THE "ISSUE/REVISIONS" BOX HEREON.

O Permit 2024-01-19

Tender 2024-02-08



PROJECT:
New Kitchen for

Fort Erie International Academy

7 Tait Ave., Fort Erie, ON





Overall Reference and Fire Rating Plans

www@whitelinearchitects.com

S C A L E:
As Noted

D R A W N:
D.V.

D A T E:
November 2023

PROJECT #: 2345

DRAWING #:

PLOTTED 2/8/2024 9:43 AM

SCALE: 1/8" = 1'.0"

GENERAL DEMOLITION NOTES:

INTENDED FINISHED PRODUCT AND RELATED DEMOLITION REQUIREMENTS.

- 1) THE INTENT OF THESE DEMOLITION DRAWINGS IS TO SHOW APPROXIMATE EXTENT AND NATURE OF DEMOLITION REQUIREMENTS ONLY. THE GENERAL CONTRACTOR IS
- RESPONSIBLE TO VERIFY ACTUAL SITE CONDITIONS AS THEY ARE RELATED TO NEW CONSTRUCTION ITEMS, REPORTING DISCREPANCIES TO THE ARCHITECT AS REQUIRED. 13) MAINTAIN EXISTING UTILITIES TO REMAIN OPERATIONAL AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. 2) DEMOLITION DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS & RELATED INFORMATION SHOWN THEREON FOR A COMPLETE UNDERSTANDING OF THE 14) SCHEDULE ALL SERVICE SHUT-DOWN(S) WITH THE OWNER, COORDINATING TIMING, LENGTH & DURATION ACCORDINGLY
- 3) IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO REMOVE & RELOCATE ALL EXISTING F.F.E. (FURNITURE, FIXTURES & EQUIPMENT) ITEMS FROM THE SUBJECT SPACE
- TO OWNER-DESIGNATED STORAGE LOCATIONS (ON-SITE); ITEMS DESIGNATED FOR RE-USE ARE TO BE RELOCATED INTO SUBJECT SPACES FOLLOWING CONSTRUCTION. 4) ITEMS TO BE DEMOLISHED SHALL BE DISPOSED OF LEGALLY OFF THE SITE AND COMPLY WITH ALL LOCAL HAVILING & DISPOSAL REQUIREMENTS AT THE CONTRACTOR'S
- 5) ALL ITEMS DESIGNATED FOR REMOVAL ARE TO BE OFFERED TO BUILDING OWNER FOR FIRST RIGHT TO REFUSAL PRIOR TO DISCARDING AT AN APPROVED LANDFILL SITE OR CONSTRUCTION MATERIALS RECYCLING DEPOT.
- 6) THE GENERAL CONTRACTOR SHALL MAINTAIN A PHYSICAL SEPARATION BETWEEN AREAS WITHIN THE SCOPE OF WORK AND AREAS OUTSIDE OF THE SCOPE OF WORK BY PROVIDING PLASTIC SHEATHING BETWEEN CONTIGUOUS SPACES AND/OR TEMPORARILY TAPING OF JOINTS AND GAPS TO PREVENT DUST MIGRATION.
- WHERE EXISTING CEILING IS AFFECTED CONTRACTOR IS TO TAKE CARE IN REMOVAL TO ACCESS AREAS AND ANY TILES / GRID TO BE REPLACE IF DAMAGED. IT IS THE INTENT IF AREAS OF CEILING ARE TO BE TAKEN DOWN THAT THEY ARE RE-INSTATED TO MATCH EXISTING LAYOUTS, CONTRACTORS TO ALLOW FOR REPLACING
- 8) THE GENERAL CONTRACTOR SHALL CAUSE NO DAMAGE TO EXISTING CONSTRUCTION TO REMAIN WHEREVER POSSIBLE, AND SHALL TAKE SPECIAL CARE NOT TO ENCROACH ON ADJACENT OCCUPIED AREAS OR AREAS NOT WITHIN THE SCOPE OF WORK. PROTECT ALL EXISTING FINISHES, DOORS, FRAMES, ETC. WHICH ARE TO
- 9) THE GENERAL CONTRACTOR SHALL USE ALL MEANS NECESSARY TO ENSURE THE SAFETY OF ADJACENT OCCUPIED AREAS THROUGH THE ERECTION OF CONSTRUCTION
- IO) THE GENERAL CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS & THE REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH SURROUNDING AREAS
- II) PRIOR TO ANY DEMOLITION; COORDINATE WITH THE HAZARDOUS MATERIALS REPORT (BY OTHERS) AS/IF APPLICABLE.

CORRIDOR

164 VESTIBULE

Z-6

163

STAIR

1 LOCALIZED DEMOLITION PLAN: Ground (Kitchen Space and Exterior)
SCALE: 1/4" = 1'-0"

172

CAFETERIA

171

STAFF RM

165 VESTIBUL

166

12) THE ARCHITECT MAKES NO CLAIMS FOR AWARENESS OF ASBESTOS OR ANY OTHER HAZARDOUS MATERIALS ON JOBSITE. REPORT ALL SUSPECTED HAZARDOUS MATERIALS TO THE ARCHITECT PRIOR TO HANDLING ON JOBSITE.

□ □ (W-2)

155 OFFICE

Z-5

154 OFFICE

STAFF ROOM

(C-1) (F-1) (M-4)

WASHROOM

tji tiji t ر آ آنادے کا ا

162

VESTIBULE

(C-4)

(Z-11) (Z-11)

153 GUIDANCE

- 15) REFER TO STRUCTURAL, MECHANICAL & ELECTRICAL DRAWINGS FOR SPECIFIC DEMOLITION NOTES REGARDING THESE DISCIPLINES, INCLUDING REQUIRED EXTENT OF FLOOR TRENCHING FOR NEW ITEMS NOT SPECIFICALLY SHOWN HEREON. ALL TRENCHING IN CONCRETE FLOORS TO BE PATCHED AND REPAIRED AS PER SPECIFICATIONS AND / OR AS REQUIRED FOR NEWLY SPECIFIED FIXTURES.
- 16) UPON COMPLETION, CLEAN THE ENTIRE AREA OF DEMOLITION TO A TIDY, UNIFORM CONDITION, REMOVING ALL DEBRIS, DUST PARTITIONS AND ASSOCIATED MATERIALS USED DURING THE DEMOLITION. CLEAN ALL AREAS IMPACTED BY THE DEMOLITION, INCLUDING BUT NOT LIMITED TO, ADJACENT OCCUPIED AREAS AND AREAS NOT WITHIN
- 17) ABANDONING ITEMS OR UNUSED UTILITIES IN PLACE IS STRICTLY PROHIBITED, UNLESS SPECIFICALLY PERMITTED BY THE OWNER; ENSURE THAT OBSOLETE MECHANICAL & ELECTRICAL ITEMS ARE REMOVED, CAPPED AND OR HANDLED IN FULL ACCORDANCE WITH MECHANICAL & ELECTRICAL SPECIFICATIONS.
- 18) COMPLY WITH ALL STANDARD LOCAL, REGIONAL, PROVINCIAL, AND NATIONAL SAFETY REQUIREMENTS FOR DEMOLITION.
- 19) AT ALL POINTS OF REMOVAL AND/OR REPAIR, MAKE GOOD & PREPARE ALL DISTURBED FINISHES, MATERIALS & SUBSTRATES AS REQUIRED TO ENSURE CLEAN TIE-IN TO NEWLY SPECIFIED MATERIALS THROUGHOUT. PATCH & REPAIR ALL EXISTING ASSEMBLIES WITH MATCHING MATERIALS UNLESS NOTED ØTHERWISE.
- 20) IN AREAS NOTED FOR DEMOLITION, ALL EXISTING SOAP DISPENSERS, PAPER TOWEL DISPENSERS AND OTHER WASHROOM/KITCHEN ACCESSORIES ARE TO BE REMOVED AND TURNED OVER TO OWNER FOR STORAGE.
- 21) AT ALL AREAS WHERE EXISTING WALLS ARE TO BE REMOVED OR PLUMBING IS TO BE REMOVED AND CAPPED, PROVIDE FOR FOR CONCRETE FLOOR REPAIR PRIOR TO
- 22) AT POINTS OF REMOVAL OF EXISTING THROUGH-WALL, FLOOR AND ROOF HVAC, HYDRONIC AND PLUMBING ITEMS (REFER TO MECHANICAL DRAWINGS); CONTRACTOR TO FILL OPENINGS TO MATCH EXISTING ASSEMBLY COMPLETE WITH FINISHES; MAINTAIN ALL FIRE/SMOKE RATING INCLUDING INSULATION AND SEALANT, AS REQUIRED.
- 23) AT POINTS OF REMOVAL/RELOCATION OF EXISTING MECHANICAL AND ELECTRICAL ITEMS (REFER TO MECHANICAL AND ELECTRICAL DRAWINGS); CONTRACTOR IS TO
- PATCH AND REPAIR THE EXISTING WALL CONSTRUCTION AND MATCH EXISTING TYPE AND FINISH.

∠ex. asphalt –

EX. GRASS -TO REMAIN /

X 2

∠EX. GRASS ¬

TO REMAIN ,

24) IN AREAS NOTED FOR DEMOLITION, ALL EXISTING FURNITURE, TACKBOARDS AND ARTWORK ARE TO BE REMOVED AND TURNED OVER TO OWNER FOR STORAGE.

WALL DEMOLITION KEYING

MILWORK DEMOLITION KEYING:

EXISTING FLOOR AND WALL MOUNTED BUILT-IN MILLWORK ITEMS (WITH ALL RELATED MECHANICAL AND ELECTRICAL ITEMS) TO BE REMOVED. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AS REQUIRED.

- EXISTING S.A.T. CEILING TILES, GRID AND ASSOCIATED HANGERS TO BE REMOVED. EXISTING DRYWALL AND PLASTER ABOVE TO BE REMOVED.
- NEMOVE AND REINSTATE EXISTING S.A.T. CEILING TILES AND GRID AS REQUIRED TO FACILITATE THE INSTALLATION AND REMOVED OF C-3 REMOVE AND REINSTATE EXISTING S.A.T. CEILING TILES AND GRID AS REQUIRED.

 SPECIFIED ITEMS. REPAIR/REPLACE THE EXISTING S.A.T. CEILING TILES AND GRID AS REQUIRED.
- REMOVE AND REINSTATE EXISTING CEILING TILES AS REQUIRED TO FACILITATE DEMOLITION OF SPECIFIED ITEMS. REPAIR/REPLACE THE C-4 EXISTING CEILING TILES AS REQUIRED. COORDINATE WITH MECHANICAL.

OFFICE

- EXISTING FLOOR FINISH AND BASE TO BE REMOVED. EXISTING BUILT UP WOOD FLOOR ASSEMBLY CONSISTING OF 2 LAYERS T+G PLYWOOD ON (F-1) 3/4" HARDWOOD ON 2"x4" SLEEPERS @ 16" O.C. TO BE REMOVED DOWN TO THE EXISTING CONCRETE SLAB. REFER TO RELATED DRAWINGS FOR INSTALLATION OF NEW CONCRETE SLAB ON EXISTING CONCRETE SLAB.
- EXISTING CONCRETE SLAB TO BE REMOVED (LOCALLY) AS REQUIRED TO ACCOMMODATE NEWLY SPECIFIED ITEMS; COORDINATE WITH (F-2) MECHANICAL DRAWINGS FOR UNDERGROUND ITEMS AS/IF APPLICABLE, NEW CONCRETE INFILL TO BE FLUSH WITH EXISTING SLAB & CONNECTED W
- EXISTING CONCRETE SLAB BELOW THE REMOVED BUILT-UP WOOD ASSEMBLY TO BE REMOVED (LOCALLY) AS REQUIRED TO ACCOMMODATE F-4 NEWLY SPECIFIED ITEMS; COORDINATE WITH MECHANICAL DRAWINGS FOR UNDERGROUND ITEMS AS/IF APPLICABLE; NEW CONCRETE INFILL TO BE ′FLUSH WITH EXISTING SLAB & CONNECTED W/IOM BARS ® 12" O.C. HORIZONTALLY. NEW CONCRETE SLAB TO BE INSTALLED ON EXISTING SLAB.

MISCELLANEOUS DEMOLITION KEYING:

- (Z-1) REMOVE EXISTING PLUMBING FIXTURE AND RELATED ITEMS. COORDINATE WITH MECHANICAL.
- ALLOW FOR THE REMOVAL OF EXISTING GRASS AS REQUIRED FOR THE INSTALLATION OF THE NEW CONCRETE PADS, GRAVEL FINISH AND CHAIN LINK FENCE ENCLOSURE. REFER TO RELATED DRAWINGS.

(Z-10) REMOVE CONDENSING UNIT AND ASSOCIATED ITEMS. COORDINATE WITH MECHANICAL.

- $(\mathsf{Z} ext{-4})$ Existing appliance and all items to be removed. coordinate with mechanical and electrical.
- $_{\gamma}$ EXISTING WALL FIN COVER AND ALL RELATED MECHANICAL AND ELECTRICAL ITEMS TO BE REMOVED. COORDINATE WITH MECHANICAL AND Z-5 EXISTING WALL FIN COVER AND ALL RELATED PILOTAINION AND ELECTRICAL. PATCH AND REPAIR EXISTING WALL AFFECTED BY THE REMOVAL OF THE WALL FIN.
- (Z-6) REMOVE EXISTING DUCT. COORDINATE WITH MECHANICAL. ENCLOSE THE OPENING IN THE WALL WITH BLOCK. MATCH EXISTING SIZE AND TYPE.

DEMOLITION NOTES:

- (W-1) REMOVE EXISTING STUD WALL ASSEMBLY AND ASSOCIATED ITEMS TO ACCOMMODATE NEWLY SPECIFIED ITEMS.
- (W-2) REMOVE EXISTING WOOD PANEL AND ASSOCIATED ITEMS ABOVE THE EXISTING DOOR TO ACCOMMODATE NEWLY SPECIFIED ITEMS.

DOOR & WINDOW DEMOLITION KEYING:

(D-1) EXISTING DOOR, FRAME AND HARDWARE TO BE REMOVED.

CEILING DEMOLITION KEYING:

- (C-1) REFER TO REFLECTED CEILING FOR FOR NEW CEILING LAYOUT. REFER TO SECTION FOR NEW G.W.B. AT U/S OF STRUCTURE WITHIN ENTIRE KITCHEN SPACE. COORDINATE WITH MECHANICAL AND ELECTRICAL.
- (C-2) REMOVE EXISTING G.W.B. BULKHEAD AND ASSOCIATED FRAMING.

FLOOR DEMOLITION KEYING:

- IOM BARS @ 12" O.C. HORIZONTALLY. REFER TO DETAIL D/A3-1.
- , ALLOW FOR THE EXISTING FLOORING TO BE CUT BACK AND REINSTATED TO FACILITATE THE REMOVAL AND INSTALLATION OF NEWLY SPECIFIED F-3 ALLOW FOR THE EXISTING FLOURING TO DE OUT DACK AND KLINDTAILD TO FROITING THE EXISTING FLOURING TO DE OUT DACK AND KLINDTAILD TO FROITING THE EXISTING FLOURING TO DECEMBER. AFTER FLOORING IS REMOVED, REMOVE ANY EXISTING GLUE/DEBRIS. REPAIR FLOOR AS REQUIRED. MATCH EXISTING SIZE AND TYPE.
- NEW CONC. SLAB TO BE LEVEL WITH THE CORRIDOR. REFER TO DETAIL F/A3-I AND RELATED DRAWINGS.

- (Z-3) REMOVE EXISTING EXTERIOR LOUVER. COORDINATE WITH MECHANICAL.
- REMOVE THE SECTION OF THE EXISTING PRE-FINISHED METAL SIDING ABOVE THE WINDOW TO ACCOMMODATE NEWLY SPECIFIED ITEMS. REFER REMOVE THE SECTION OF THE EXISTING MRE-FINISHED MILITAL SIDING ALOVE THE NILLOWN TO RELATED DRAWINGS FOR INSTALLATION OR REINSTATEMENT OF THE PRE-FINISHED METAL PANEL (MATCH EXISTING PANEL).
- (Z-8) MODIFY EXISTING STUD FRAMING ASSEMBLY ABOVE THE WINDOW TO ACCOMMODATE THE NEW OPENING. COORDINATE WITH MECHANICAL.
- REMOVE THE EXISTING EXHAUST DUCT. COORDINATE WITH MECHANICAL. INFILL THE OPENING FROM THE REMOVED DUCT WITH A NEW STUD FRAMING ASSEMBLY (MATCH EXISTING).
- REMOVE/REINSTATE EXISTING BRICK VENEER TO FACILITATE THE REMOVAL OF THE EXISTING DUCT AND LOUVER. COORDINATE WITH (Z-11) MECHANICAL. REPAIR/REPLACE EXISTING BRICK VENEER AND BLOCK AFFECTED BY DEMOLITION. ENCLOSE OPENING IN THE EXTERIOR WALL WITH NEW BRICK VENEER AND CONC. BLOCK. MATCH EXISTING SIZE AND TYPE.

ABBREVIATIONS

REVERSE

EXISTING

MOOD

TYPICAL

ON CENTRE

WATER CLOSET

MAKE UP AIR UNIT

TOP AND BOTTOM

FIBRE GLASS PANELS

LAVAT*O*RY

EACH WAY

E.W. FRP

COMPLETE WITH

CENTRE TO CENTRE

SUSPENDED ACOUSTIC TILE

BOTH SIDES

TACK BOARD

WHITE BOARD

BARRIER FREE

FLOOR DRAIN

UNLESS NOTED OTHERWISE

GYPSUM WALL BOARD

ABOVE FINISHED FLOOR

FINISHED FLOOR LEVEL

GRAB BAR

TOP OF

MITH

UNDERSIDE

REFERENCE

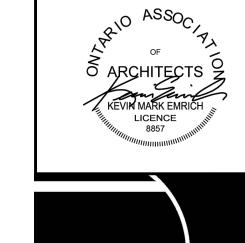
MIRRORED

SIMILAR

TYPICAL

MINIMUM

MAX. MAXIMUM N.I.C. NOT IN CONTRACT



New Kitchen for

Academy

7 Tait Ave.,

Fort Erie, ON

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L DETAILS WITHIN THE FULL DRAWING

PACKAGE BEING RESPONSIBLE FOR SAME

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BY THE ARCHITECT AND NOTED ACCORDINGLY IN

2024-01-19

2024-02-08

THROUGHOUT CONSTRUCTION, REPORTING AN DISCREPANCIES TO THE ARCHITECT PRIOR TO

COMMENCING THE RELEVANT WORK

THE "ISSUE/REVISIONS" BOX HEREON.

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1 Tender

WHITELINE

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DRAWING TITLE:

Localized **Demolition Plans**

As Noted DRAWN:

DATE:

PROJECT #:

November 2023

DRAWING #: A2-1

LEGEND: EXISTING ASSEMBLY TO REMAIN NEW ASSEMBLY - I HR FIRE RATED ASSEMBL

> ---- 8'-0" HIGH STAINLESS STEEL PANELS = = = = = 8'-0" HIGH FRP PANELS 6'-0" CHAIN LINK FENCE

--- EXISTING FEATURE TO BE REMOVED

SOUND PROOF INSULATION DEMOLITION KEY

WALL TYPE AS SPEC'D DOOR TYPE AS SPEC'D

EQUIPMENT TYPE AS SPEC'D

DETAIL # / SECTION #

INTERIOR ELEVATION # FOODSERVICE EQUIPMENT LIST AND SERVICES (Refer to 11400 Food Services Equipment for additional information)

WALL ASSEMBLIES:

• 5/8" ABUSE RESISTANT GYPSUM WALLBOARD

• 5/8" ABUSE RESISTANT GYPSUM WALLBOARD • 3-5/8" METAL STUD FRAMING @ 16" O.C. MAX. • FILL THE STUD CAVITY WITH SOUND PROOF INSULATION AROUND WASHROOM WALLS ONLY

[STUD FRAMING FROM FLOOR LEVEL TO U/S OF RATED CEILING G.N.B. ABOVE (PROVIDE SOLID BLOCKING BETWEEN THE EX. O.W.S.J'S AND THE RATED CEILING G.W.B. TO SECURE THE STUDS). G.W.B. FROM FLOOR LEVEL TO ±3" ABOVE HIGHEST ADJACENT CEILING. SOUND PROOF INSULATION TO BE FROM THE FLOOR LEVEL TO THE U/S OF THE STRUCTURAL ABOVE]

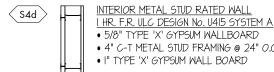
INTERIOR METAL STUD WALL

• 5/8" ABUSE RESISTANT GYPSUM WALLBOARD • 3-5/8" METAL STUD FRAMING @ 16" O.C. MAX.

[STUD FRAMING FROM FLOOR LEVEL TO U/S OF RATED CEILING G.W.B. ABOVE (PROVIDE SOLID BLOCKING BETWEEN THE EX. O.W.S.J'S AND THE RATED CEILING G.W.B. TO SECURE THE STUDS). G.W.B. FROM FLOOR LEVEL TO ±3" ABOVE HIGHEST ADJACENT CEILING]

INTERIOR METAL STUD LOW WALL • 3-5/8" METAL STUD FRAMING @ 16" O.C. MAX.

 5/8" PLYWOOD SHEATHING [FROM FLOOR LEVEL TO 42" ABOVE FINISHED FLOOR]



• 4" C-T METAL STUD FRAMING @ 24" O.C. MAX. • I" TYPE 'X' GYPSUM WALL BOARD

INTERIOR METAL STUD WALL • 5/8" ABUSE RESISTANT GYPSUM WALLBOARD • 6" METAL STUD FRAMING @ 16" O.C. MAX.

• FILL THE STUD CAYITY WITH SOUND PROOF INSULATION AROUND WASHROOM WALLS ONLY • 5/8" ABUSE RESISTANT GYPSUM WALLBOARD

[STUD FRAMING AND G.W.B. FROM T/O FLOOR TO U/S OF RATED CEILING ABOVE]

[STUD FRAMING FROM FLOOR LEVEL TO U/S OF RATED CEILING G.W.B. ABOVE (PROVIDE SOLID BLOCKING BETWEEN THE EX. O.M.S.J'S AND THE RATED CEILING G.M.B. TO SECURE THE STUDS). G.M.B. FROM FLOOR LEVEL TO ±3" ABOVE HIGHEST ADJACENT CEILING. SOUND PROOF INSULATION TO BE FROM THE FLOOR LEVEL TO THE U/S OF THE STRUCTURAL ABOVE]

<u>GENERAL NOTES:</u>

I) ALL WALLS TO BE STRUCTURALLY SUPPORTED AT TOP BY WAY OF STABILIZATION MEMBERS OR

CONTINUATION OF STUDS TO STRUCTURAL SLAB ABOVE. 2) REFER TO FIRE SEPARATION DRAWING FOR RATING LOCATIONS.

3) STEEL STUD IN RATED ASSEMBLIES TO BE MIN. 0.53mm THICK. 4) REFER TO PLAN STAINLESS STEEL AND FRP PANELS LOCATIONS AND HEIGHTS.

5) REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR KITCHEN EQUIPMENT CONNECTIONS AS WELL AS ADDITIONAL ITEMS SUCH AS FAUCETS/DRAINS/ETC.

6) FRP PANELS SHALL BE SERIES 180 (0.060") BY CANADA PLASTICS (OR EQUAL) C/W ALL ACCESSORIES, IN COLOUR BRIGHT WHITE PGB. INSTALL AS PER MANUFACTURES RECOMMENDATIONS.

7) INSPECTION AND REPAIR OF THE EXISTING RATED WALL ASSEMBLY, 1)I) AFTER THE DEMOLITION IS COMPLETE AND THE EXISTING RATED WALL ASSEMBLIES ARE EXPOSED (REFER TO RELATED DEMOLITION DRAWINGS). THE CONTRACTOR IS TO INSPECT THE INTEGRITY OF THE EXISTING RATED ASSEMBLY. IF THE INTEGRITY OF THE EXISTING RATED ASSEMBLY SEEMS COMPROMISED. THE CONTRACTOR IS TO REPORT TO THE ARCHITECT FOR DIRECTION TO REPAIR AND/OR REPLACE THE EXISTING RATED ASSEMBLY. ALLOW FOR MIN. 500 SQ. FT. OF THE EXISTING RATED ASSEMBLY TO BE REPAIRED/REPLACED TO MATCH

ABBREVIATIONS:

REVERSE EXISTING

MOOD

TYPICAL

ON CENTRE

LAVAT*O*RY

EACH WAY

E.W. FRP

WATER CLOSET

MAKE UP AIR UNIT

TOP AND BOTTOM

FIBRE GLASS PANELS

COMPLETE WITH

CENTRE TO CENTRE

SUSPENDED ACOUSTIC TILE

BOTH SIDES

TACK BOARD

WHITE BOARD

GRAB BAR

TOP OF

MITH

UNDERSIDE

REFERENCE

MIRRORED

SIMILAR

TYPICAL

MINIMUM MAX. MAXIMUM
N.I.C. NOT IN CONTRACT

EQUIPMENT TYPE AS SPEC'D

DETAIL # / SECTION #

INTERIOR ELEVATION #

#

UNLESS NOTED OTHERWISE

GYPSUM WALL BOARD

ABOVE FINISHED FLOOR

FINISHED FLOOR LEVEL

BARRIER FREE

FLOOR DRAIN

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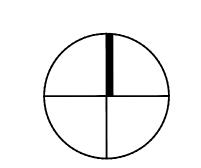
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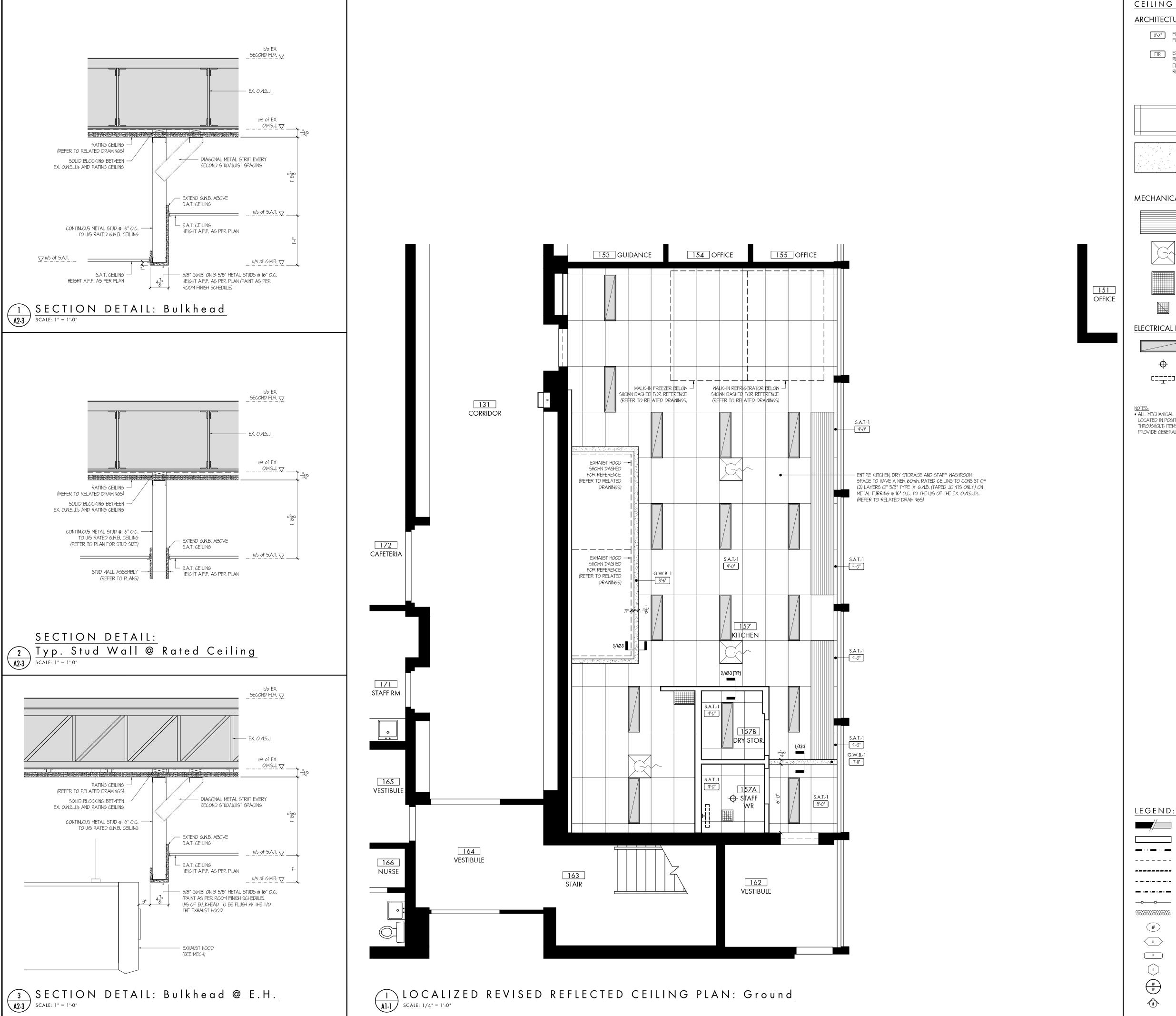
Localized **Revised Plan** and Kitchen **Equipment List**

SCALE:	
As Noted	
DRAWN:	
D.V.	
DATE:	
November 2023	

DRAWING #:

PROJECT #:

A2-2



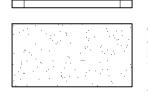
CEILING FEATURES:

ARCHITECTURAL ITEMS:

FINISHED CEILING HEIGHT (TO UNDERSIDE) ABOVE FINISHED FLOOR.

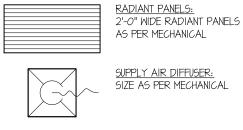
ETR EXISTING CEILING FINISHES TO BE REMOVED AND REINSTATED AS REQUIRED (& RELATED MECH'L & ELECT'L ITEMS AS APPLICABLE) TO REMAIN. REFER TO RELATED DRAWINGS.

REFER TO SPECIFICATIONS.

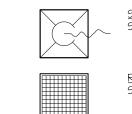


G.W.B.-I (BULKHEADS): GYPSUM WALL BOARD CEILING BULKHEAD 5/8" GWB ON METAL STUDS @ 16" O.C. CONTINUOUS TO STRUCTURE ABOVE. REFER TO RELATED DRAWINGS. PAINT AS PER ROOM FINISH

MECHANICAL ITEMS:



<u>SUPPLY AIR DIFFUSER:</u> SIZE AS PER MECHANICAL



<u>RETURN AIR GRILLE:</u> SIZE AS PER MECHANICAL

EXHAUST FAN and/or GRILLE: SIZE AS PER MECHANICAL

ELECTRICAL ITEMS:

RECESSED 12" x 48" LED LUMINAIRE AS PER ELECTRICAL RECESSED LED POT LIGHT



• ALL MECHANICAL & ELECTRICAL CEILING FEATURES ARE TO BE LOCATED IN POSITIONS SHOWN ON ARCHITECTURAL DRAWINGS THROUGHOUT; ITEMS SHOWN ON MECHANICAL & ELECTRICAL DRAWINGS PROVIDE GENERAL LOCATIONS ONLY.

EXISTING ASSEMBLY TO REMAIN

---- EXISTING FEATURE TO BE REMOVED

====== 8'-0" HIGH STAINLESS STEEL PANELS

NEW ASSEMBLY

= = = = = 8'-0" HIGH FRP PANELS

---- 3'-6" HIGH FRP PANELS

##

SOUND PROOF INSULATION

DEMOLITION KEY

WALL TYPE AS SPEC'D

DOOR TYPE AS SPEC'D

DETAIL # / SECTION #

INTERIOR ELEVATION #

EQUIPMENT TYPE AS SPEC'D

- I HR FIRE RATED ASSEMBLY

AS PER ELECTRICAL

ALL DRAWINGS, THE DESIGN, AND THE DETAILS THEREON REMAIN THE PROPERTY OF THE ARCHITECT AND ARE NOT TO BE ALTERED, RE-USED OR REPRODUCED WITHOUT THE ARCHITECT'S EXPRESS WRITTEN CONSENT.

THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MUST CONFIRM & CORRELATE
ALL DETAILS WITHIN THE FULL DRAWING
PACKAGE BEING RESPONSIBLE FOR SAME

THROUGHOUT CONSTRUCTION, REPORTING ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO

ALL DRAWINGS, DETAILS & SPECIFICATIONS REPRESENTED IN THE DRAWINGS ARE TO BE USED FOR CONSTRUCTION ONLY WHEN ISSUED BY THE ARCHITECT AND NOTED ACCORDINGLY IN

2024-01-19

2024-02-08

COMMENCING THE RELEVANT WORK

0 Permit

1 Tender

PROJECT: **New Kitchen for**

Fort Erie International Academy

7 Tait Ave., Fort Erie, ON





DRAWING TITLE:

ABBREVIATIONS:

REVERSE EXISTING

BOTH SIDES

ON CENTRE

WATER CLOSET

MAKE UP AIR UNIT

TOP AND BOTTOM

FIBRE GLASS PANELS

EACH WAY

E.W. FRP

WOOD TYPICAL COMPLETE WITH

CENTRE TO CENTRE

LAVATORY SUSPENDED ACOUSTIC TILE

TACK BOARD

BARRIER FREE

WHITE BOARD

GRAB BAR

TOP OF

REFERENCE

SIMILAR

TYPICAL

MINIMUM

MAX. MAXIMUM
N.I.C. NOT IN CONTRACT

MIRRORED

MITH

UNDERSIDE

UNLESS NOTED OTHERWISE

GYPSUM WALL BOARD

FINISHED FLOOR LEVEL

ABOVE FINISHED FLOOR

FLOOR DRAIN

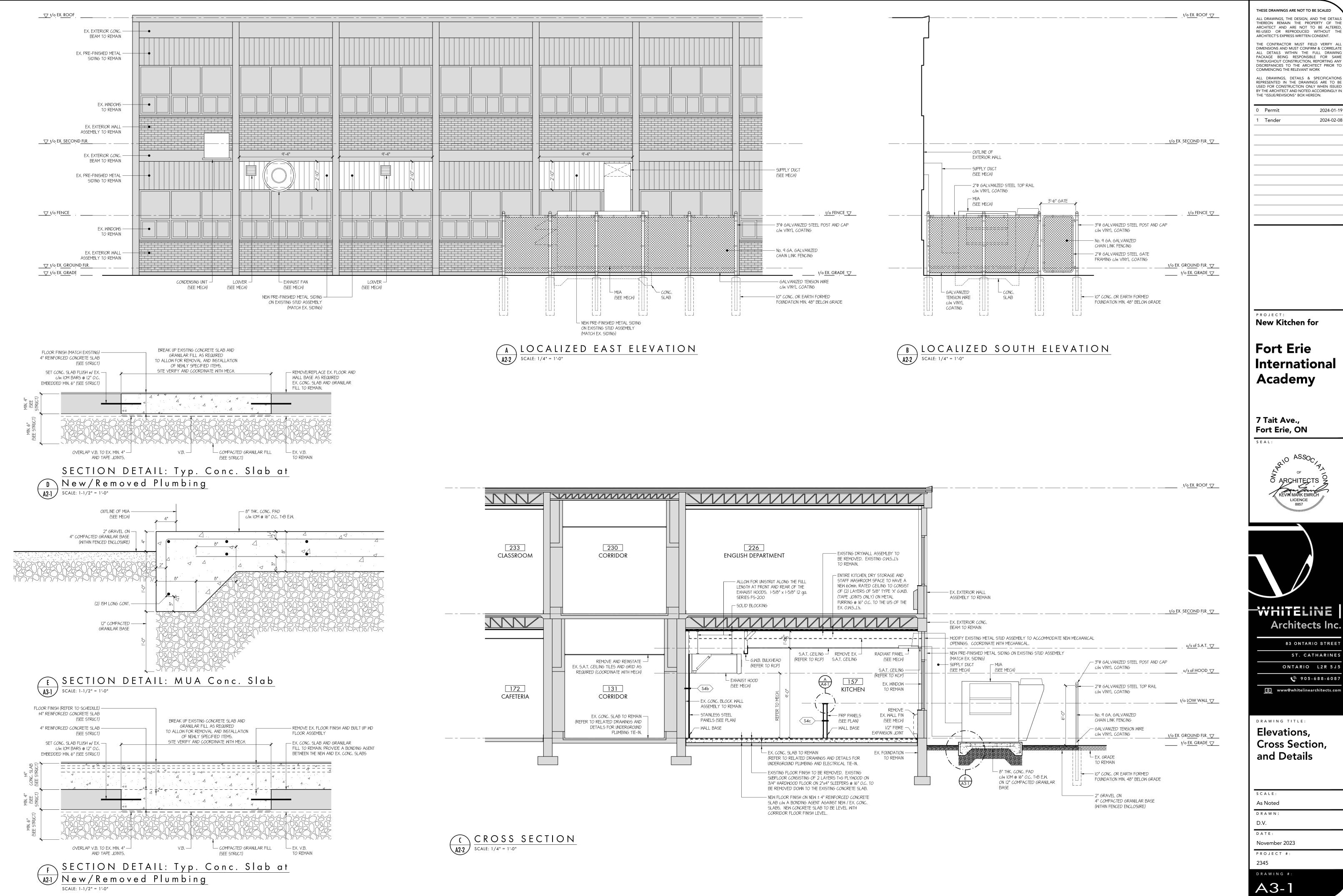
Localized **Revised Reflected** Ceiling Plan and Detail

www@whitelinearchitects.com

SCALE: As Noted DRAWN: D.V. DATE: November 2023

PROJECT #: DRAWING #:

A2-3

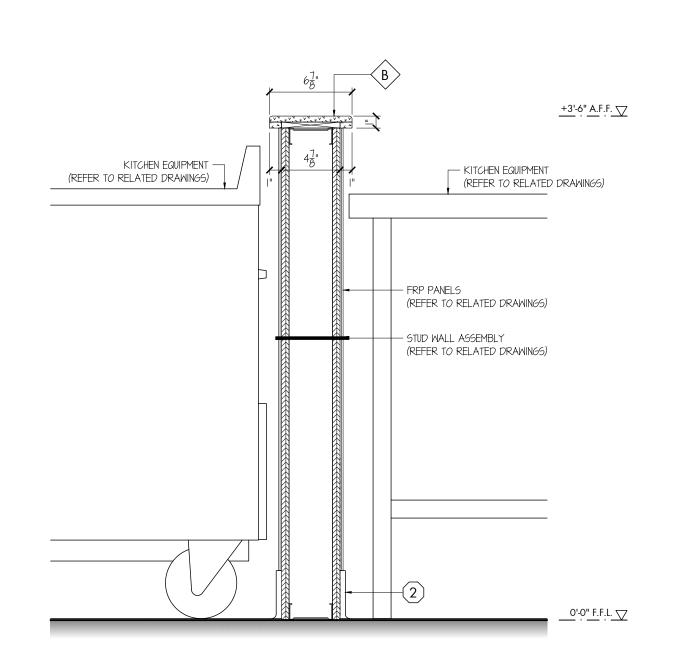


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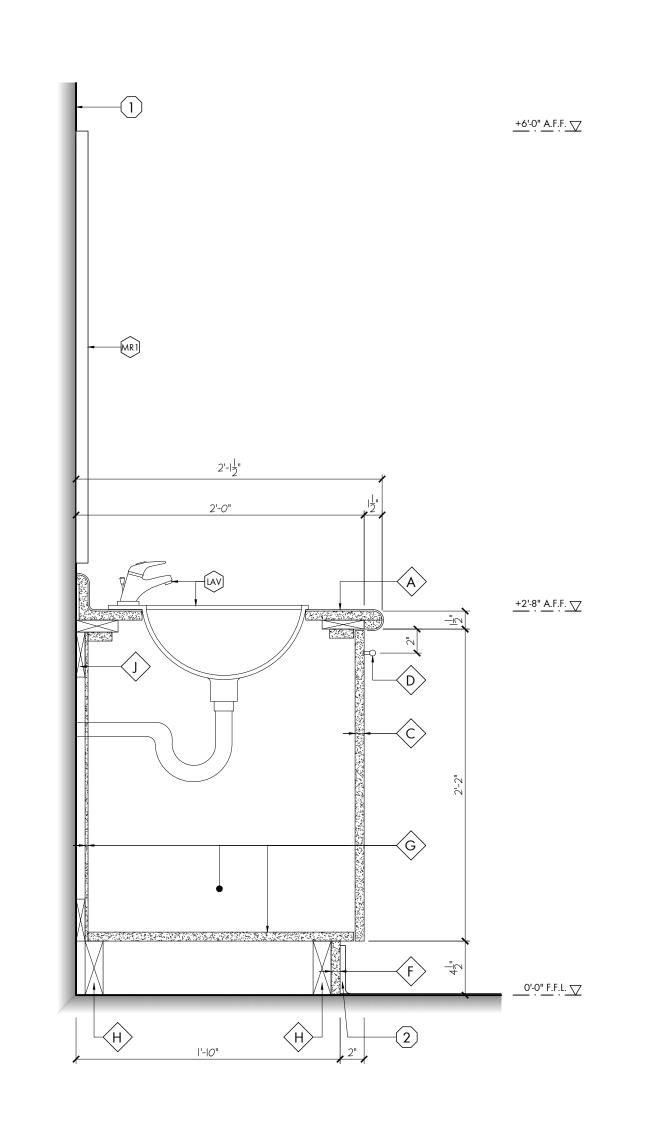
2024-01-19 2024-02-08



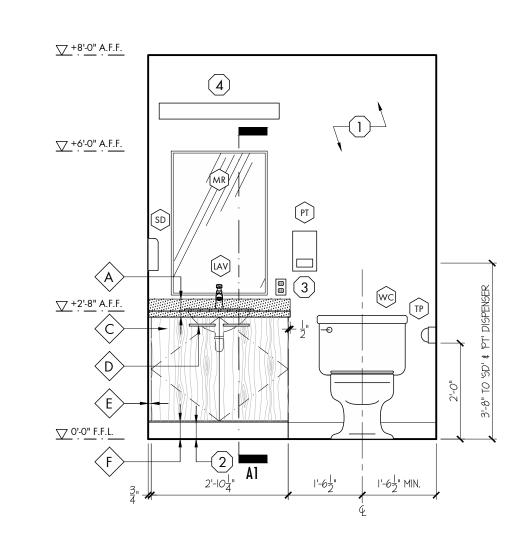




A3-1 SECTION DETAIL: Low Wall



Al SECTION DETAIL: Lower Cabinet



1 INTERIOR ELEVATION: Washroom

SCALE: 1/2" = 1'-0"

MILLWORK KEYING:

- A 180° POST-FORMED COUNTERTOP WITH INTEGRAL BACKSPACE TO BE PLASTIC LAMINATE #I (ARBORITE P-394 VL ARTIC SNOW ON 3/4" PARTICLE BOARD TO SUIT)
- SOLID SURFACE COUNTERTOP TO BE LG HIMACS #QOO3, TERAZZO MODERNA; ½" THICK C/W BUILT-UP NOSING (IN THICKNESS SPECIFIED ON DRAWINGS) WITH PENCIL RADIUS AT ALL OUTSIDE EDGES TO SUIT. CONTINUOUS WOOD SUPPORT RUNNERS BELOW COUNTERTOP TO SUIT.
- ALL EXPOSED CABINET BODIES TO BE MELAMINE FINISH PARTICLE BOARD IN STOCK THICKNESS NOTED C/W 1.5 MM MATCHING PVC EDGEBANDING THROUGHOUT; DOOR FACINGS TO BE 3/4" PARTICLE BOARD; ALL EXPOSED CABINET BODIES TO BE 3/4" PARTICLE BOARD; I/2" BACKING BOARD (WHERE SHOWN)2
- CABINET PULLS TO BE RICHELIEU #BP8160128-195, 6 3/8" LONG x I 3/32" PROCECTION IN #195 BRUSHED NICKEL FINISH; POSITIONING AS PER ELEVATION.
- FILLER STRIPS (IN WIDTHS TO SUIT) TO BE MELAMINE FINISH 3/4" PARTICLE BOARD C/W MATCHING 3MM PVC EDGE BANDING; PROVIDE CONTINUOUS MOUNTING STRIPS TO SUIT; INSTALLED FLUSH WITH ADJACENT CABINET FACES (WHERE APPLICABLE).
- 4 1/2" HIGH x 2" DEEP TOEKICK TO BE 3/4" 'EXTIRA' EXTERIOR-GRADE WATER RESISTANT MDF ON CONCEALED WOOD BLOCKING TO SUIT; FINISH ALL RECESSED TOEKICKS WITH WALL BASE AS PER COLOUR FINISH SCHEDULE.
- CONCEALED CABINET INTERIORS (BEHIND DRAWERS AND DOORS) TO BE WHITE MELAMINE FINISH PARTICLE BOARD C/W MATCHING TAPED EDGEBANDING; 3/4" THICK SHELVES, GABLES AND DRAWER BOXES; 3/8" THICK BACKING BOARD; SHELVES ARE TO BE FINISHED WITH EDGEBANDING ON ALL 6 SIDES; ALL SHELVES ARE TO ADJUSTABLE (U.N.O.) C/W CLEAR ALUMINUM PILASTER STRIPS RECESSED INTO CABINET BODIES; SHELF QUANTITIES TO BE AS SHOWN ON ELEVATIONS (TYP.)
- WOOD SUPPORT BLOCKING (OR CABINET LEVELING LEGS) TO SUIT
- CONTINUOUS WOOD ANCHORING STRIPS (TO SUIT) ANCHORED INTO WALL BEHIND.

EQUIPMENT LIST:

- LAVATORY (SINK AND FAUCET)
 AS PER MECHANICAL
- MR) 24" x 36" MIRROR; BOBRICK MODEL B-1556 2436
- PAPER TOWEL DISPENSER
 PURCHASED BY OWNER INSTALLED BY CONTRACTOR
- SD SOAP DISPENSER PURCHASED BY OWNER INSTALLED BY CONTRACTOR
- TP TOILET PAPER DISPENSER PURCHASED BY OWNER INSTALLED BY CONTRACTOR
- WC WATER CLOSET
 AS PER MECHANICAL

MISCELLANEOUS GENERAL KEYING:

- GYPSUM WALL BOARD FINISH AS PER ROOM FINISH SCHEDULE
- WALL BASE AS PER ROOM FINISH SCHEDULE
- RECEPTACLES, DATA TELECOM OUTLETS, ETC. AS PER ELEC. DRAWINGS

(4) WALL MOUNTED LIGHT FIXTURE AS PER ELEC. DRAWINGS

MILLWORK FABRICATION NOTES:

I. ALL MILLWORK IS TO BE FABRICATED TO AWMAC 'CUSTOM GRADE' STANDARDS THROUGHOUT, AS REFERENCED IN THE MOST RECENTLY PUBLISHED STANDARDS GUIDE.

2. ALL WOOD GRAIN LAMINATE + MELAMINES ARE TO BE INSTALLED IN THE GRAIN ORIENTATIONS ILLUSTRATED ON ARCHITECTURAL DRAWINGS; ENSURE CONTINUITY OF GRAIN BETWEEN VERTICALLY STACKED PANEL FACINGS THROUGHOUT.

THEREON REMAIN THE PROPERTY OF THE ARCHITECT AND ARE NOT TO BE ALTERED, RE-USED OR REPRODUCED WITHOUT THE ARCHITECT'S EXPRESS WRITTEN CONSENT. THE CONTRACTOR MUST FIELD VERIFY ALI DIMENSIONS AND MUST CONFIRM & CORRELATE
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0 Permit 2024-01-19

PROJECT:

New Kitchen for

Fort Erie International Academy

7 Tait Ave., Fort Erie, ON





Architects Inc. 83 ONTARIO STREET

> ST. CATHARINES ONTARIO L2R 5J5

905-688-6087 www@whitelinearchitects.com

DRAWING TITLE: Interior Elevation and Millwork **Details**

SCALE: As Noted DRAWN:

DATE:

November 2023 PROJECT #:

DOOR SCHEDULE													
LOCA	TION	DOOR				FRAME					RATING	DOOR & FRAME GLAZING	
FROM	TO	SIZE	MATERIAL	ELEV.	FINISH	MATERIAL	JAMB	ELEV.	FINISH	DEPTH	FIRE RATING	ТҮРЕ	REMARKS
157	131	EXISTING	EX. H.M.	EX.	PAINT	EX. H.M.	EX	EX.	PAINT	EX.	EX. 3/4 HR.		EXISTING DOOR TO REMAIN. TO BE PAINTED.
157	162	EXISTING	EX. H.M.	EX.	PAINT	EX. H.M.	EX	EX.	PAINT	EX.	EX. 3/4 HR.		EXISTING DOOR TO REMAIN. TO BE PAINTED. PROVIDE CLOSURE.
157	ISTA		H.M.	1	PAINT	H.M.	А	F-I	PAINT	5 7/8"			
157	157B	3'-0" x 7'-0"	H.M.	I	PAINT	H.M.	А	F-I	PAINT	5 7/8"			
	FROM 157 157	157131157162157157A	FROM TO SIZE 157 131 EXISTING 157 162 EXISTING 157 157A 3'-O" x 7'-O"	FROM TO SIZE MATERIAL 157 131 EXISTING EX. H.M. 157 162 EXISTING EX. H.M. 157 157A 3'-0" x 7'-0" H.M.	FROM TO SIZE MATERIAL ELEV. 157 131 EXISTING EX. H.M. EX. 157 162 EXISTING EX. H.M. EX. 157 157A 3'-O" x 7'-O" H.M. I	FROM TO SIZE MATERIAL ELEV. FINISH 157 131 EXISTING EX. H.M. EX. PAINT 157 162 EXISTING EX. H.M. EX. PAINT 157 157A 3'-O" x 7'-O" H.M. I PAINT	FROM TO SIZE MATERIAL ELEV. FINISH MATERIAL 157 131 EXISTING EX. H.M. EX. PAINT EX. H.M. 157 162 EXISTING EX. H.M. EX. PAINT EX. H.M. 157 157A 3'-O" x 7'-O" H.M. I PAINT H.M.	FROM TO SIZE MATERIAL ELEV. FINISH MATERIAL JAMB 157 131 EXISTING EX. H.M. EX. PAINT EX. H.M. EX 157 162 EXISTING EX. H.M. EX. PAINT EX. H.M. EX 157 157A 3'-O" x 7'-O" H.M. I PAINT H.M. A	FROM TO SIZE MATERIAL ELEV. FINISH MATERIAL JAMB ELEV. 157 131 EXISTING EX. H.M. EX. PAINT EX. H.M. EX. EX. 157 162 EXISTING EX. H.M. EX. PAINT EX. H.M. EX. EX. 157 157A 3'-O" x 7'-O" H.M. I PAINT H.M. A F-I	FRAME FRAME FRAME FRAME FRAME FRAME FROM TO SIZE MATERIAL ELEV. FINISH MATERIAL JAMB ELEV. FINISH ELEV. FINISH EX. H.M. EX. EX. PAINT EX. EX. EX. PAINT EX. EX. EX. EX. PAINT EX. EX.	FRAME FRAME FRAME FRAME FRAME FRAME FROM TO SIZE MATERIAL ELEV. FINISH MATERIAL JAMB ELEV. FINISH DEPTH EX. H.M. EX. PAINT EX. H.M. EX. PAINT EX. EX. EX. PAINT EX. EX. EX. PAINT EX. EX. EX. EX. PAINT EX. EX	LOCATION DOOR FRAME FR	LOCATION DOOR FRAME FR

GENERAL NOTES:

FLOORING FINISH SPECIFICATIONS:

SRSL: SLIP-RETARDANT SHEET FLOORING:

HARD-TO-HOLD APPLICATIONS

CONDITIONS

- I. CONTRACTOR TO VERIFY ALL FRAME SIZES (INCLUDING DEPTHS) AND REPORT ANY DISCREPANCIES TO
- THE ARCHITECT FOR FURTHER CLARIFICATION PRIOR TO SHOP DRAWING SUBMISSION. 2. SITE VERIFY ALL OPENING DIMENSIONS PRIOR TO FABRICATION.
- 3. INSTALLATION ORIENTATIONS OF ALL DOOR AND DOOR FRAMES TO BE AS PER FLOOR PLAN. 4. FRAME DIMENSIONS SHOWN INCLUDE DIMENSIONAL ALLOWANCE FOR FRAME WRAP OVER G.W.B. 5. PROVIDE CONTINUOUS SEALANT (C/W BACKER ROD IF REQUIRED) AROUND FULL PERIMETER OF DOOR
- FRAME AT BOTH SIDES BETWEEN FRAME AND WALL TRANSITIONS.

HARDWARE:

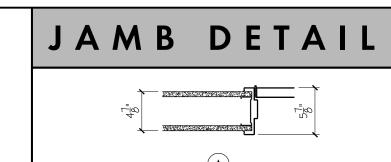
MANUFACTURER: HINGES 5BBI 5x4.5; STAINLESS STEEL FINISH V20-8265-LNL-US; SATIN CHROME FINISH PRIVACY SET SARGENT WALL STOP STANDARD METAL HARDWARE SI23; SATIN STAINLESS STEEL FINISH STANDARD METAL HARDWARE KIOA 7" x 34"; STAINLESS STEEL FINISH

<u>DOOR 157B</u> TYPE: MANUFACTURER: HINGES 5BBI 5x4.5; STAINLESS STEEL FINISH 28-737P-11604 LL; SATIN CHROME FINISH STOREROOM LOCKSET SARGENT WALL STOP STANDARD METAL HARDWARE SI23; SATIN STAINLESS STEEL FINISH

STANDARD METAL HARDWARE KIOA 7" x 34"; STAINLESS STEEL FINISH

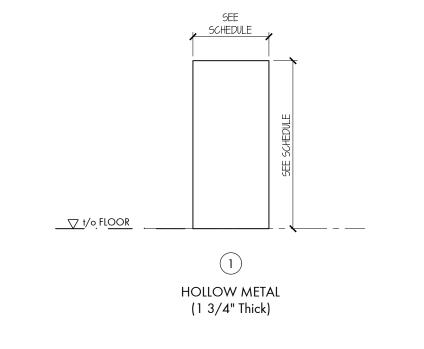
ABBREVIATIONS: UNDERSIDE

HOLLOW METAL

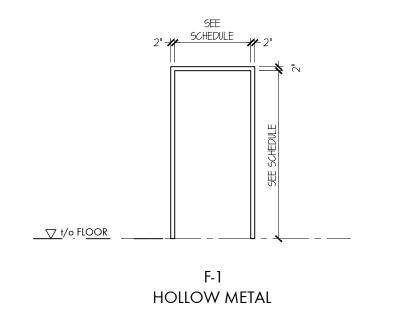


H.M. INTERIOR WRAP

AROUND G.W.B. JAMB



DOOR ELEVATION



DOOR FRAME

COMMENCING THE RELEVANT WORK ALL DRAWINGS, DETAILS & SPECIFICATIONS REPRESENTED IN THE DRAWINGS ARE TO BE USED FOR CONSTRUCTION ONLY WHEN ISSUED BY THE ARCHITECT AND NOTED ACCORDINGLY IN 0 Permit 2024-01-19 2024-02-08

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ROOM	FLOORS		WALLS					CEILING			MILLWORK	GENERAL REMARKS	
NO. NAME	SUBFLOOR	FINISH	BASE	FLOORING NOTES	MATERIAL	FINISH	WALL NOTES	MATERIAL	FINISH	HEIGHT CEILING NOTES			NO.
123 CORRIDOR	EX. CONCRETE	EX. TZ	EX. TZB	FN-I, FN-2	EX.	EX.		EX. S.A.T.	FF	CN-I			123
26 OFFICE	EX. CONCRETE	EX. VT	EX. RB	FN-I, FN-2	EX.	EX.		EX.					126
29 PHOTOCOPY	EX. CONCRETE	EX. VT	EX. RB	FN-I, FN-2	EX.	EX.		EX.					129
30 MEETING	EX. CONCRETE	EX. VT	EX. RB	FN-1, FN-2	EX.	EX.		EX.					130
131 CORRIDOR	EX. CONCRETE	EX. TZ	EX. TZB	FN-2	EX. BV	EX.		EX. S.A.T.	FF	8'-4" CN-I		PAINT EXISTING DOOR AND FRAME TAGGED 157-1	131
32 CORRIDOR	EX. CONCRETE	EX. TZ	EX. TZB	FN-I, FN-2	EX. BV	EX.		EX. S.A.T.	FF				132
53 GUIDANCE	EX. CONCRETE	EX. VT	EX. RB	FN-I, FN-2	EX.	EX.		EX.					153
157 KITCHEN	EX. CONCRETE NEW CONCRETE	SRSF	IFCB	FN-I	EX. BLOCK,	PAINT, S.S. FRP	WN-1, WN-2	5.A.T.#I	FF PAINT	9'-0" VARIFG	MN-I	GN-2	157
57A STAFF WASHROOM	EX. CONCRETE NEW CONCRETE	SRSF	IFCB	FN-I	EX. BLOCK,	PAINT	WN-1, WN-2	5,A.T.#I	FF	8'-0"	MN-I	GN-I, GN-2	157A
DRY STORAGE	EX. CONCRETE NEW CONCRETE	SRSF	IFCB	FN-I	6.M.B.	PAINT	MN-I	S.A.T.#I	FF	8'-0"		GN-2	157B
162 VESTIBULE	EX. CONCRETE	EX. VT	EX. RB	FN-2	EX. BLOCK GWB	PAINT PAINT		EX. CT	FF	8'-0" CN-2		PAINT EXISTING DOOR AND FRAME TAGGED 157-2	162

CEILING ABBREVIATIONS:

C.T. CEILING TILE

CEILING NOTES:

FACTORY FINISH

G.W.B. GYPSUM WALL BOARD (ON METAL STUDS)

S.A.T. # SUSPENDED ACOUSTIC TILE CEILING & GRID SYSTEM

ROOM FINISH SCHEDULE

LOORING ABBREVIATIONS:

- RB RUBBER BASE
- SRSF SLIP RESISTANT SHEET FLOORING
- FCB INTEGRAL FLASH COVE BASE
- TZB TERRAZZO RB RUBBER BASE

Z TERRAZZO

6' WIDE X 0.080" (2.03mm) THICK MANNINGTON ASSURANCE III ROLL

SUPPLIED MATCHING WELDING RODS AT ALL SEAMS; PRODUCT TO

BE INSTALLED IN FULL ACCORDANCE WITH THE MANUFACTURER'S

RECOMMENDATIONS FOR THE INTNEDED APPLCIATION INCLUDING

COMPATIBLE PRODUCTS [INCLUDING ADHESIVES]: ENSURE THAT ALL

USE OF ALL RELATED TOOLS. INSTALLATION TECHNIQUES AND

EXISITING SUB-FLOOR SURFACE CONDITIONS EXHIBIT R H. AND

MOISTURE TOLERANCES SUITABLE FOR INSTALLATION; UTILIZE

MANUFACTURER-RECOMMENDED HIGH R.H. ADHESIVES AS

REQUIRED RELATIVE TO EXISTING SLAB MOISTURE LEVELS

4.375" HIGH JOHNSONITE 'TIGHTLOCK RESILIENT' RUBBER BASE IN COLOUR #20

MATERIAL FOR ONE-PIECE INSTALLATION AROUND OUTSIDE CORNERS; USE

MANUFACTURER-RECOMMENDED ADHESIVES AND/OR CONTACT CEMENT FOR

CHARCOAL; INSTALL PRODUCT IN FULL ACCORDANCE WITH THE MANUFACTURER'S

RECOMMENDATIONS FOR THE INTENDED APPLICATION; RELIEF-CUT REAR SIDE OF

CONCRETE SELF-LEVELLING TOPPING: SELF-LEVELLING TOPPING TO BE CEMENT-BASED OR OTHER NON-GYPSUM BASED

• COMPATIBILITY OF TOPPING THICKNESS CAPABILITIES TO SITE REQUIREMENTS [MIN.

PRODUCTS. TOPPING TO BE SELECTED TO SUIT THE INTENDED APPLICATION

COMPATIBILITY OF TOPPING WITH APPLICABLE SUBSTRATE MATERIAL AND

USE OF APPROPRIATE AGGREGATES IN TOPPING [IF REQUIRED] TO ACHIEVE

FULL ADHESION BETWEEN TOPPING AND SUBSTRATE

AND MAX. TOPPING THICKNESSES]

HIGH-BUILD THICKNESS REQUIREMENTS

GOODS IN COLOUR 'TAWNY GREY 16351' C/W MANUFACTURER

- VT VINYL TILE
- FN-I PATCH & PREPARE EXISTING CONCRETE SLAB FOR NEW PLUMBING AND ELECTRICAL TIE-IN. FN-2 LOCALIZED REMOVE & REINSTATE EXISTING FLOOR FINISH AND BASE AS REQUIRED.

ABILITY OF TOPPING TO BE FEATHERED OR TAPERED TO 0 AS/IF REQUIRED

- REQUIREMENTS AND ENVIRONMENTAL CONDITIONS PUMPING ABILITY OF TOPPING AS/IF REQUIRED SUITED TO SITE REQUIREMENTS COMPATIBILITY OF TOPPING DRY-TIME WITH PROJECT REQUIREMENTS
- PRIOR TO INSTALLATION OF SELF-LEVELLING TOPPING, ALSO ENSURE USE OF THE FOLLOWING [AS/IF REQUIRED]:
- MANUFACTURER-RECOMMENDED ADHESION PRIMERS MANUFACTURER-RECOMMENDED SUB-FLOOR PATCH MATERIALS. FILL AND CRACK REPAIR AGENTS ETC. AND MISCELLANEOUS ITEMS AS REQUIRED TO ENSURE THE
- INTEGRITY OF THE TOPPING INSTALLATION
- ACCEPTABLE SELF-LEVELLING CONCRETE TOPPINGS INCLUDE ARDEX K16 OR ARDEX K15 OR APPROVED ALTERNATE
- TRANSITION STRIPS: TRANSITION STRIPS ARE TO BE SUPPLIED AND INSTALLED AT ALL FLOORING TRANSITIONS THROUGHOUT WHERE DISSIMILAR FLOORING MATERIALS MEET AND/OR WHERE DISSIMILAR FLOORING MATERIALS OF DIFFERENT THICKNESSES MEET.
- TRANSITION STRIPS SHALL INCLUDE ALL 'REDUCERS', 'ADAPTORS' 'SLIMLINE TRANSITIONS' AND/OR 'WHEELED TRAFFIC TRANSITIONS' AS MANUFACTURED BY TARKETT (UNLESS NOTED OTHERWISE). FLOORING TRADE TO DETERMINE THE REQUIRED PROFILE OF THE TRANSITION STRIPS FOR THE INTENDED APPLICATION, SUPPLYING AND INSTALLING SUITABLE TRANSITIONS STRIPS TO:
- MEDIATE/TRANSITION BETWEEN NEW FLOORING OF DIFFERENT THICKNESSES - MEDIATE/TRANSITION BETWEEN A NEW FLOORING FINISH AND AN ADJACENT EXISTING FLOORING FINISH WHICH IS NOT CO-PLANAR (I.E. WITH A DIFFERENT
- FLOORING TRADE TO SELECT APPROPRIATE PROFILES FROM TARKETT'S FULL PRODUCT RANGE SUITED TO THE INTENDED APPLICATION RELATIVE TO ABUTTING FLOORING TYPES AND THICKNESS, IN COLOUR TO MATCH ONE ABUTTING FLOORING FINISH AND/OR AS SELECTED BY THE ARCHITECTS FROM THE MANUFACTURER'S FULL

<u>WALL NOTES:</u>

 VISCOSITY, FLOW AND SELF-LEVELLING CAPABILITIES OF TOPPING SUITED TO SITE ALL GYPSUM WALL BOARD THROUGHOUT IS TO BE 5/8" THICK GEORGIA-PACIFIC 'DENS ARMOR PLUS ABUSE PRODUCT INHERENTLY MEETS TYPE 'X' FIRE-RATING REQUIREMENTS. BOARD WIDTHS TO BE 4'-0" X EGGSHELL FINISH LONGEST PRACTICAL LENGTHS TO SUIT. ALL INSTALLED BOARDS ARE TO BE COMPOUNED, CORNER-BEADED, TAPED AND MUDDED AS REQUIRED TO PROVIDE A CONISTENT, FULLY-FINISHED FACE NEW CONCRETE BLOCK WALLS - WATERBORNE EPOXY COATING FINISH: SUITABLE FOR FINISH COATING APPLICATION.

WN-2 MULTIPLE WALL TYPES WITHIN ROOM; REFER TO PLANS AND INTERIOR ELEVATIONS.

WN-3 PAINT ALL NEW EXPOSED WALLS. PAINT EXISTING EXPOSED WALLS AFFECTED BY

DEMOLITION AND INSTALLATION. PAINT TO NEAREST CORNER.

COATING SPECIFICATIONS:

MALL ABBREVIATIONS:

CONCRETE MASONRY UNIT

STAINLESS STEEL PANELS

WN-I PAINT ALL NEW AND EXISTING EXPOSED WALLS.

GYPSUM WALL BOARD

FIBRE GLASS PANELS

BRICK VENEER

PREPARATION OF PREVIOUSLY COATED SURFACES:
PAINTING CONTRACTOR TO INVESTIGATE ALL PREVIOUSLY COATED SURFACES TO DETERMINE NECESSARY REQUIREMENTS TO ENSURE PROPER ADHESION AND FORMULATION COMPATIBILITY OF NEWLY SPECIFIED

EXISTING PAINTED SURFACES (SPECIFIED TO BE RE-PAINTED) ARE TO BE TESTED WITH METHYL-HYDRATE TO DETERMINE IF THEY ARE ALKYD OR WATER-BASED MATERIALS TO DETERMINE COMPATIBLE FORMULATION OF NEW PAINT MATERIALS AND PRIMERS, ENSURING PRODUCT SELECTION TO ENSURE

ALL EXISTING COATINGS ARE TO BE PROPERLY CLEANED, SCRAPED AND PREPARED FOR RECOAT TO ENSURE FULL AND LASTING ADHESION OF NEW PAINT FINISH. PREPARATION SHALL INCLUDE ANY FORM OF MECHANICAL ABRASION REQUIRED (SANDING, SCRAPING, SANDBLASTING, SHOT-BLASTING ETC.) TO REMOVE PEELING AND/OR LOOSE PAINT FINISHES TO ENSURE A PROPER AND LASTING BOND OF NEW PAINT FINISH. FILL IRREGULARITIES, HOLES AND VOIDS IN THE SUBSTRATE WITH PERMANENT FILLERS SANDED SMOOTH AND FLUSH WITH ADJACENT SURFACES.

- EXISTING CONCRETE BLOCK WALLS PAINT FINISH: 1 COAT APPROPRIATE BONDING PRIMER
- 2 COATS DULUX "DIAMOND INTERIOR 100% ACRYLIC", SATIN FINISH

CN-I REMOVE AND REINSTATE EXISTING S.A.T. CEILING AS REQUIRED.

CN-2 REMOVE AND REINSTATE EXISTING CEILING TILE AS REQUIRED.

EXISTING CONCRETE BLOCK WALLS - WATERBORNE EPOXY COATING FINISH: - 1 COAT APPROPRIATE BONDING PRIMER RESISTANT INTERIOR PANELS' WITH MOISTURE-RESISTANT CORE FACED IN COATED FIBRE-GLASS MATTS. - 2 COATS DULUX 'PITT-GLAZE WB1' PRE-CATALZYED, MILDEW-RESISTANT WATER BORNE ACRYLIC EPOXY IN

1 COAT SHERWIN WILLIAMS "PREP RITE" BLOCKFILLER, B25 SERIES · 2 COATS DULUX 'PITT-GLAZE WB1' PRE-CATALZYED, MILDEW-RESISTANT WATER BORNE ACRYLIC EPOXY IN EGGSHELL FINISH

EXISTING CONCRETE CEILINGS - PAINT FINISH: 1 COAT APPROPRIATE BONDING PRIMER - 2 COATS DULUX CEILING PAINT, FLAT FINISH

GLOSS FINISH; VOC COMPLIANT

EXISTING GYPSUM WALL BOARD WALLS - PAINT FINISH 1 COAT APPROPRIATE BONDING PRIMER

2 COATS DULUX "DIAMOND INTERIOR 100% ACRYLIC", SATIN FINISH

NEW GYPSUM WALL BOARD WALLS - WATERBORNE EPOXY COATING FINISH: 1 COAT SHERWIN WILLIAMS "PREP RITE 200" PRIMER, B28W200 SERIES

· 2 COATS DULUX 'PITT-GLAZE WB1' PRE-CATALZYED, MILDEW-RESISTANT WATER BORNE ACRYLIC EPOXY IN

NEW GYPSUM WALL BOARD WALLS & BULKHEADS - PAINT FINISH 1 COAT SHERWIN WILLIAMS "PREP RITE 200" PRIMER, B28W200 SERIES

- 2 COATS DULUX 'PITT-GLAZE WB1' PRE-CATALZYED, MILDEW-RESISTANT WATER BORNE ACRYLIC EPOXY IN EGGSHELL FINISH

EXISTING HOLLOW METAL DOORS AND FRAMES: PAINT FINISH:

- 2 COATS SHERWIN WILLIAMS "INDUSTRIAL ENAMEL URETHANE" TOPCOAT (ALKYD), B54W151 SERIES,

SUSPENDED ACOUSTIC TILE SPECIFICATIONS:

MILLWORK NOTES (MN):

MN-I MILLWORK AS PER

ELEVATIONS AND PLANS

ALL S.A.T. IS TO BE SUPPLIED AND INSTALLED IN FULL ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE INTENDED APPLCAITON UTILIZING ALL RELATED INSTALLATION PRODUCTS AND TECHNIQUES TO ENSURE A LEVEL AND TRUE FINISHED INSTALLATION WHICH IS TIGHTLY AND NEATLY FITTED THROUGHOUT. PRODUCT TO BE: TILES: 24" X 48" X 3/4" ROCKFON 'HYGENIC PLUS' #31101 SQUARE LAY-IN TILES WITH NRC = 0.90 IN WHITE FACTORY FINISH GRID: ROCKFON CHICAGO METALLIC 1200 SERIES 15/16" EXPOSED TEE SYSTEM IN WHITE FACTORY FINISH

GENERAL REMARKS (GR):

GR-I WALL-MOUNTED WASHROOM ACCESSORIES AS PER RELATED DRAWINGS.

ALL ITEMS SPECIFIED TO RECEIVE PAINT FINISH ARE TO BE PREPPED & PRIMED AS REQUIRED THROUGHOUT; INCLUDING PATCH AND

. ROOM FINISH SCHEDULE IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS & SPECIFICATIONS TO PROVIDE A COMPLETE

UNDERSTANDING OF PROJECT REQUIREMENTS. IN NO WAY IS THE REQUIRED SCOPE OF WORK LIMITED TO OR FULLY COVERED BY

: ANY ITEMS INSUFFICIENTLY DOCUMENTED HEREIN ARE TO BE REPORTED TO THE ARCHITECT FOR DIRECTION PRIOR TO PROCEEDING

WITH ANY RELATED WORK. ANY SUCH WORK COMPLETED ON SITE WITHOUT THE ARCHITECT'S PRIOR DIRECTION MAY REQUIRE

SUBSEQUENT RECTIFICATION TO THE SATISFACTION OF THE ARCHITECT AT CONTRACTORS EXPENSE.

GR-2 ALL NEW AND EXISTING DOORS AND FRAMES TO BE PAINTED.

REPAIR OF ALL REMOVED ITEMS ON THAT SURFACE.

PROJECT: **New Kitchen for**

Fort Erie International Academy

7 Tait Ave., Fort Erie, ON





DRAWING TITLE:

Door, Room Finish Schedules and Specifications

www@whitelinearchitects.com

As Noted DRAWN: DATE: November 2023

PROJECT #:

F	PIPING LEGEND
	HOT WATER SUPPLY (HWS) (NEW)
	HOT WATER RETURN (HWR) (NEW)
	HOT WATER SUPPLY (HWS) (EXISTING)
	HOT WATER RETURN (HWR) (EXISTING)
	EXISTING HOT WATER PIPE TO BE REMOVED
— s —	SUCTION LINE
<u> — L —</u>	LIQUID LINE
— R —	REFRIGERANT LINE
— RV —	RELIEF VENT
	PIPE ANCHOR
_	PIPE GUIDE OR SLEEVE
	EXPANSION COMPENSATOR c/w GUIDES
+	BOTTOM TAKE-OFF
_ 	TOP TAKE-OFF
φ	ELBOW UP
	ELBOW DOWN
$\overline{}$	VALVE - SEE SPECIFICATIONS
<u> </u>	UNION CONNECTION
<u></u>	PLUG CAP
↑ AV	AIR VENT
↑ AAV	AUTOMATIC AIR VENT
(T) G	THERMOSTAT w/GUARD
	RADIANT PANELS
	REHEAT COILS
AFF	ABOVE FINISHED FLOOR
CBV	CIRCUIT BALANCING VALVE
GPM	GALLONS PER MINUTE
REQ'D	REQUIRED
TCV	THERMOSTATIC CONTROL VALVE
TYP.	TYPICAL
CFH	CUBIC FEET HOUR

VFN	TILATION LEGEND		PLI	
<u> </u>	TID (TION LEGEND			SA
	FLEXIBLE CONNECTION	 		DO
→				DO
X DN X Z	DUCT OFFSET			DO
├	DUCT OFFSET (SINGLE LINE)		-	VE
rrr	TURNING VANES		co I ——	CL
		l ⊩	O FD	FL
BD	BALANCING DAMPER	╽╶╟	• FE	FU FIF
. 60	FIRE DAMPER		■ FB WCT	FIF WA
SD	SPLITTER DAMPER		L INV. ELEV.	LA IN
BDD	BACKDRAFT DAMPER		OBV. ELEV.	OB GA
OBD	OPPOSED BLADE DAMPER		GINT G	GR GA
MD	MOTORIZED DAMPER	╽	— F —	FIF
	SUPPLY DUCT SECTION			DO
			#	KIT
	RETURN DUCT SECTION			SA
[SUPPLY DIFFUSER			EX
	EXHAUST GRILLE			EX
D- XXX	DIFFUSER DESIGNATION AND CFM	╽╶╟		EX VA
G— XXX	GRILLE DESIGNATION AND CFM		<u> </u>	RE
~ □	FLEXIBLE ROUND DUCT			
	CAPPED END DUCT			
	DUCT REDUCER/ENLARGER			
	TRANSITION TO ROUND			
<u> </u>	THERMOSTAT			
(T) _G	THERMOSTAT w/GUARD			
AD	ACCESS DOOR			
AFF CFM	ABOVE FINISHED FLOOR CUBIC FEET PER MINUTE	l ⊩		
EF EF	EXHAUST FAN	▎▕┞		
CH	CABINET HEATER	│		
MUA	MAKE-UP AIR UNIT	▎▕▎		
KEH	KITCHEN EXHAUST HOOD	▎▕▎		
KEF	KITCHEN EXHAUST FAN			
FC	FAN COIL			
CU	CONDENSER UNIT			
FC	FAN COIL			

PLI	JMBING LEGEND
	SANITARY BURIED (NEW)
	DOMESTIC COLD WATER (NEW)
	DOMESTIC HOT WATER (NEW)
	DOMESTIC RECIRCULATED WATER (NEW)
v _	VENT LINE
co I⊢	CLEANOUT
O FD	FLOOR DRAIN
O FFD	FUNNEL FLOOR DRAIN
● FE	FIRE EXTINGUISHER
■FB	FIRE BLANKET
WCT	WATER CLOSET TANK TYPE
L	LAVATORY
INV. ELEV.	INVERT ELEVATION
OBV. ELEV.	OBVERT ELEVATION
— G —	GAS (NEW)
GINT	GREASE INTERCEPTOR
— G —	GAS (EXISTING)
— F —	FIRE LINE (EXISTING)
	DOMESTIC COLD WATER (EXISTING)
	DOMESTIC HOT WATER (EXISTING)
· · · ·	DOMESTIC RETICULATION (EXISTING)_
#	KITCHEN EQUIPMENT DESIGNATION
	SANITARY BURIED (EXISTING)
	EXISTING SANITARY TO BE REMOVED
	EXISTING DOMESTIC PIPE TO BE REMOVED
	EXISTING FIXTURE TO BE REMOVED
\boxtimes	VALVE
	REDUCED/ENLARGER

D	RAWING LIST
DWG No.	DRAWING TITLE
M0.0	MECHANICAL LEGEND & DRAWING LIST
M1.0	OVERALL GROUND & SECOND FLOOR PLANS
M1.1	OVERALL ROOF LEVEL PLAN
M2.0	GROUND FLOOR PLUMBING, DRAINAGE & HVAC DEMOLITION PLAN
М3.0	GROUND FLOOR NEW PLUMBING & DRAINAGE PLAN
M4.0	GROUND FLOOR NEW HVAC & SECOND FLOOR PLUMBING PLAN
M5.0	MECHANICAL DETAILS
M5.1	MECHANICAL DETAILS
M6.0	MECHANICAL SCHEDULES
ME1.0	MECHANICAL & ELECTRICAL SCHEDULES

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3 - ISSUED FOR TENDER- 2024-01-31

2 - ISSUED FOR PERMIT- 2024-01-18

1 - ISSUED FOR COORDINATION- 2024-01-18

P R O J E C T :

Interior Alterations

Fort Erie International Academy

7 Tait Ave., Fort Erie, ON



EXP Services Inc.

t: 905.525.6069 | f: 905.528.7310
1266 South Service Road,
Suite C1-1, Stoney Creek,
ON, L8E 5R9
Canada

www.exp.co



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MECHANICAL LEGEND & DRAWING LIST

S C A L E :

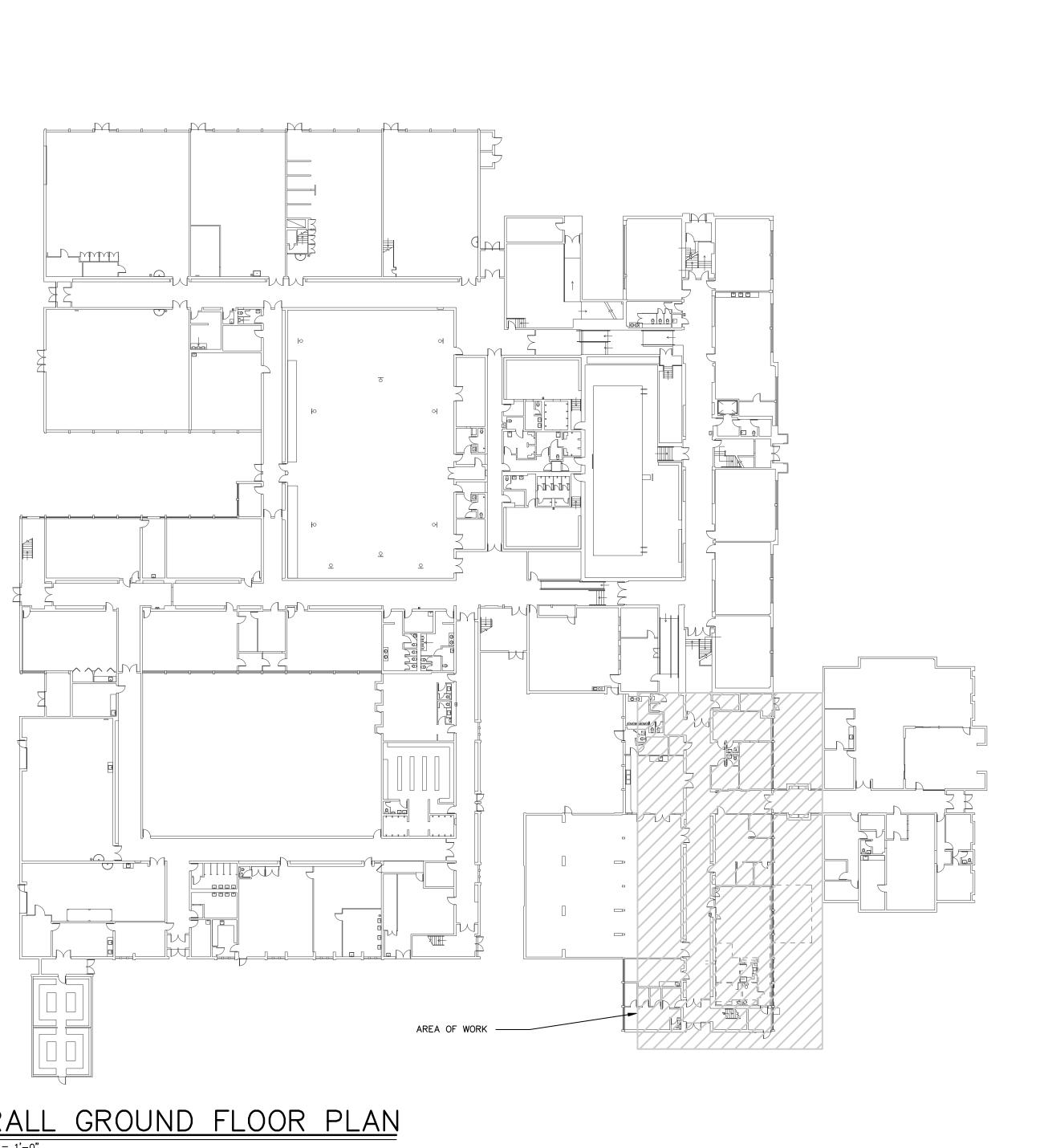
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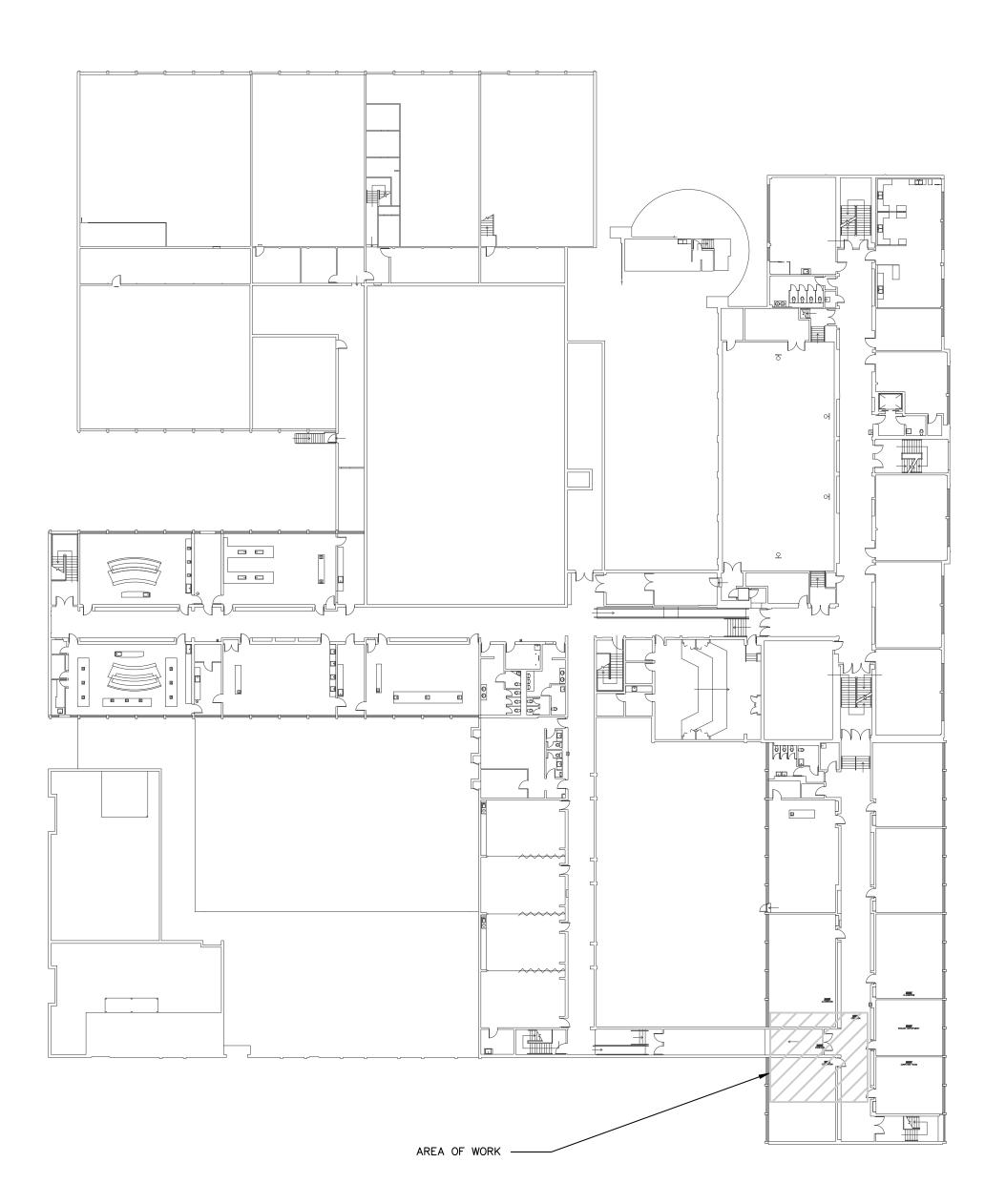
DRAWN:

JL DATE:

DATE: DECEMBER 2023

PROJECT #: ALL-23014405-A0



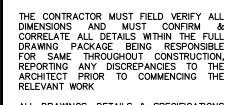


OVERALL GROUND FLOOR PLAN

SCALE- 1/32" = 1'-0" 0 20FT 40FT 60FT 80FT 100FT 120FT 140FT 160FT OVERALL SECOND FLOOR PLAN

SCALE- 1/32" = 1'-0" 0 20FT 40FT 60FT 80FT 100FT 120FT 140FT 160FT

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3 - ISSUED FOR TENDER- 2024-01-31

2 - ISSUED FOR PERMIT- 2024-01-18

- ISSUED FOR COORDINATION- 2024-01-1 PROJECT:

Interior Alterations

International Academy

7 Tait Ave., Fort Erie, ON



EXP Services Inc. t: 905.525.6069 | f: 905.528.7310 1266 South Service Road, Suite C1-1, Stoney Creek, ON, L8E 5R9 Canada



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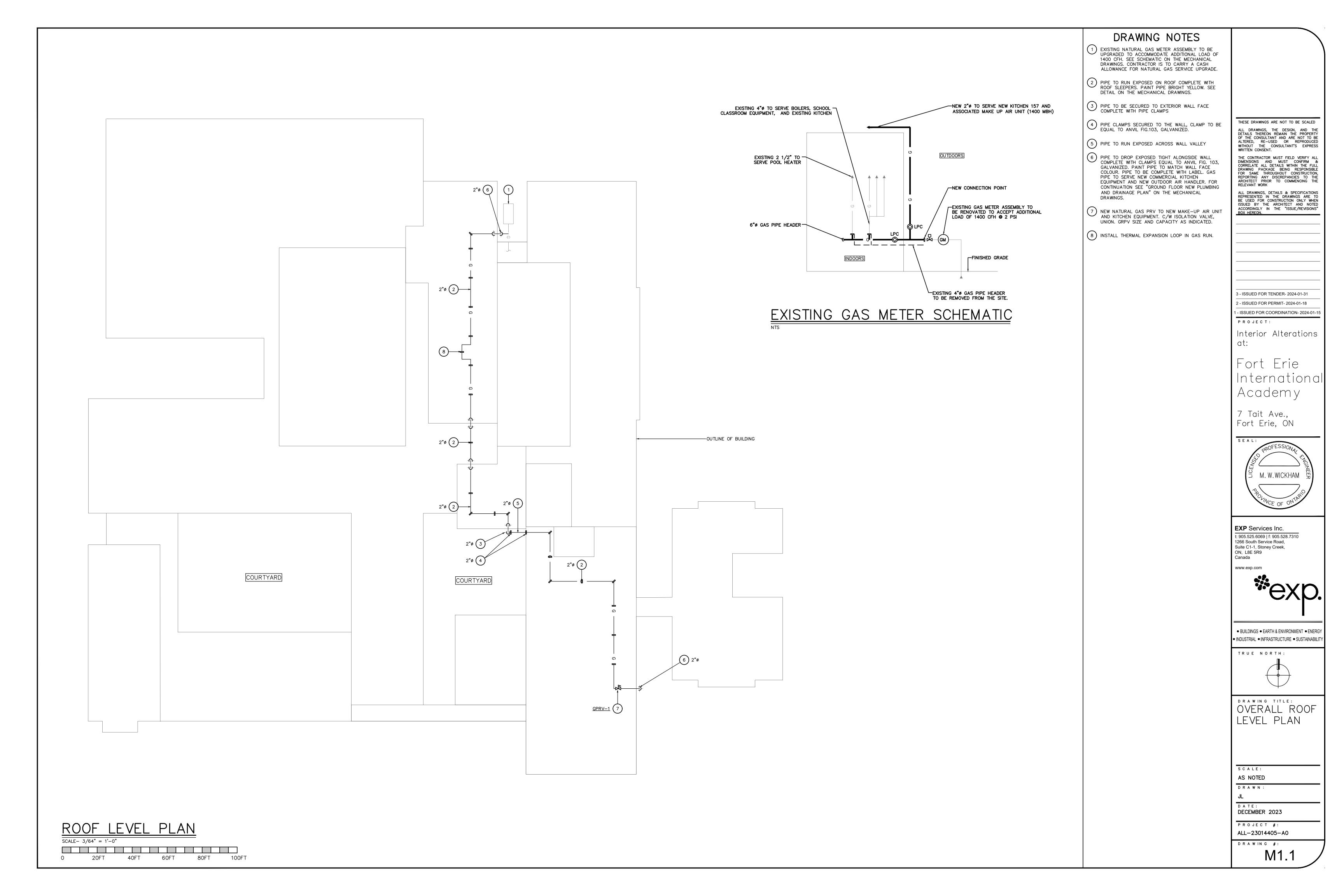
DRAWING TITLE: GROUND & SECOND FLOOR PLANS

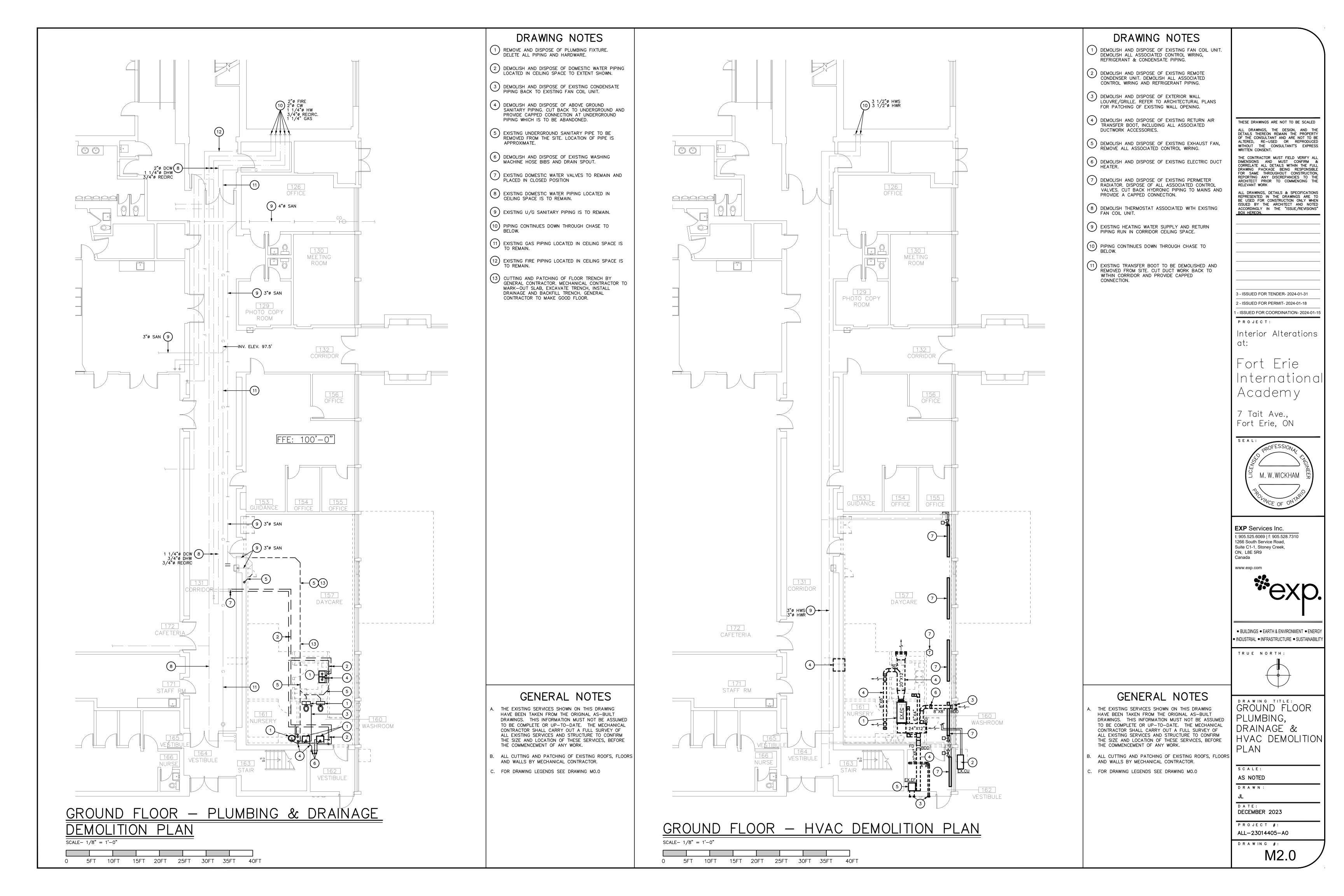
SCALE: AS NOTED

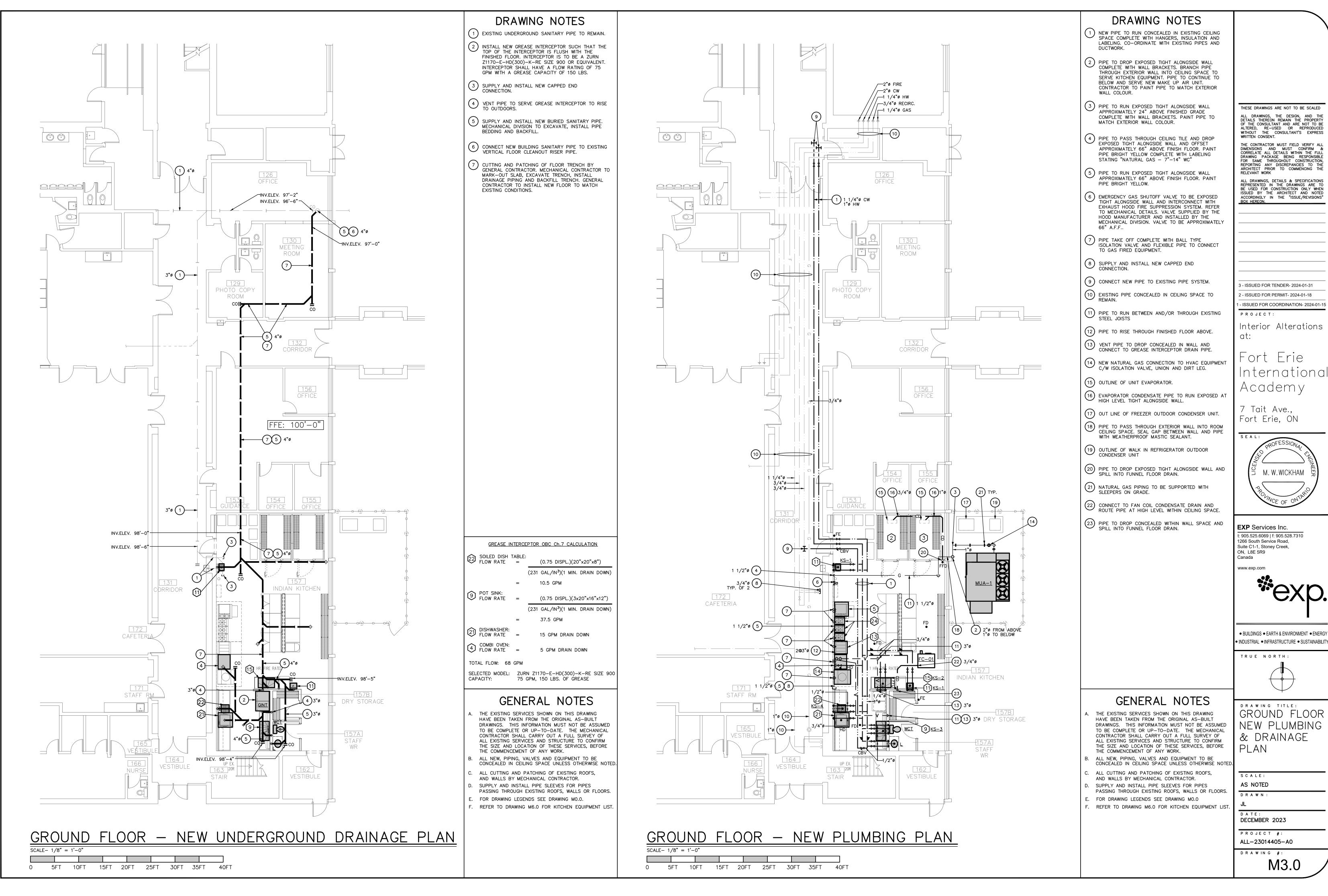
DRAWN:

D A TE: DECEMBER 2023

PROJECT #: ALL-23014405-A0

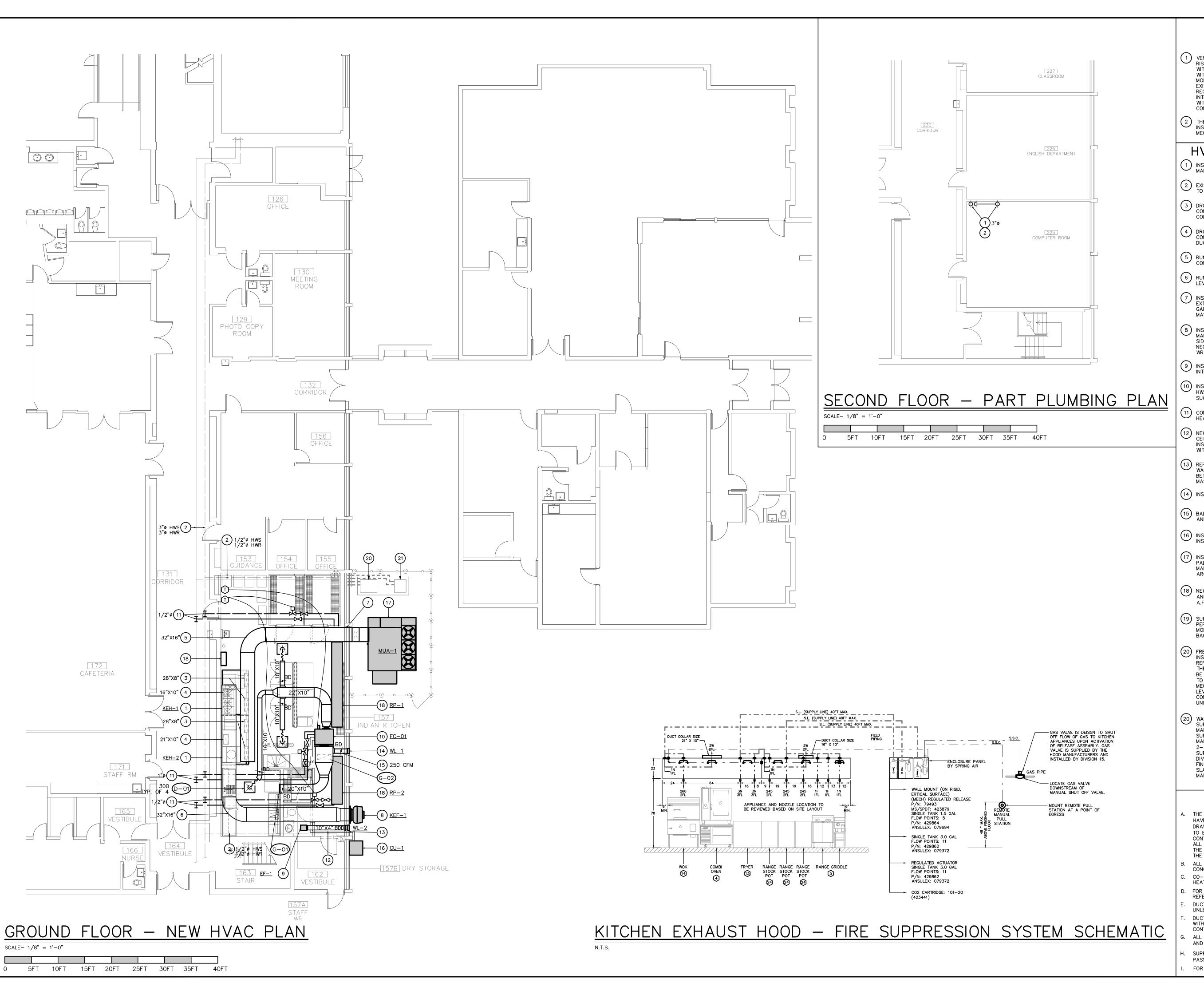












PLUMBING DRAWING NOTES

- VENT PIPING SERVING NEW GREASE INTERCEPTOR, TO RISE TIGHT AGAINST WALL TO OUTDOORS COMPLETE WITH WALL CLAMPS. VENT PIPE TO BE COMPLETE WITH STACK JACK FLASHING EQUAL TO THALER MODEL SJ-38-ALUMINUM. ROUTE PIPING TO AVOID EXISTING EXPOSED CONDUIT AND SURFACE MOUNTED RECEPTACLES WHEREVER POSSIBLE. FOR ANY INTERFERENCES CONTRACTOR TO COORDINATE ONSITE WITH ELECTRICAL DIVISION FOR RELOCATION OF CONDUIT AND ELECTRICAL DEVICES.
- THE GENERAL DIVISION IS TO CONCEAL VENT PIPING INSIDE 18 ga SHEET METAL COVER. REFER TO MECHANICAL DETAILS.

HVAC DRAWING NOTES

- 1 INSTALL KITCHEN EXHAUST HOOD AS PER
- 2 EXISTING HOT WATER SUPPLY AND RETURN PIPING TO REMAIN.
- 3 DROP INSULATED MAKE UP AIR DUCT DOWN AND CONNECT TO KITCHEN EXHAUST HOOD SUPPLY DUCT COLLAR.
- DROP FIRE-WRAPPED EXHAUST AIR DUCT DOWN AND CONNECT TO KITCHEN EXHAUST HOOD EXHAUST DUCT COLLAR.
- The state of the s
- 6 RUN FIRE-WRAPPED EXHAUST AIR DUCT AT HIGH LEVEL CONCEALED IN CEILING SPACE.
- 7 INSULATED MAKE-UP AIR DUCT TO PASS THROUGH EXTERIOR WALL INTO ROOM CEILING SPACE. SEAL GAP BETWEEN WALL AND PIPE WITH WEATHERPROOF MASTIC SEALANT.
- 8 INSTALL KITCHEN EXHAUST FAN AS PER MANUFACTURERS INSTRUCTION COMPLETE WITH SIDEWALL HINGE ADAPTER KIT. PROVIDE ALL NECESSARY DUCT TRANSITIONS TO CONNECT TO FIRE WRAPPED EXHAUST DUCT.
- 9 INSTALL EXHAUST FAN IN WASHROOM CEILING. INTERLOCK WITH ROOM LIGHT SWITCH.
- 10) INSTALL FAN COIL UNIT IN CEILING SPACE. CONNECT HWS/HWR, REFRIGERANT LIQUID AND REFRIGERANT SUCTION LINES.
- CONNECT NEW PIPE TO EXISTING HOT WATER HEATING PIPING.
- NEW REFRIGERANT PIPING RUN CONCEALED IN CEILING SPACE COMPLETE WITH HANGERS, INSULATION AND LABELING. CO-ORDINATE PIPE SIZE WITH MANUFACTURER.
- REFRIGERANT PIPE TO PASS THROUGH EXTERIOR WALL INTO ROOM CEILING SPACE. SEAL GAP BETWEEN WALL AND PIPE WITH WEATHERPROOF MASTIC SEALANT.
- (14) INSTALL NEW WALL LOUVRE IN EXTERIOR WALL.
- BALANCE FRESH AIR DUCT TO AIRFLOW INDICATED AND CONNECT TO FC-01 RETURN AIR PLENUM.
- 16) INSTALL NEW CONDENSER UNIT HANGING FROM WALL. INSTALL AS PER MANUFACTURERS INSTRUCTIONS.
- 17) INSTALL KITCHEN MAKE—UP AIR UNIT ON CONCRETE PAD. UNIT TO BE INSTALLED AS PER MANUFACTURERS INSTRUCTIONS. REFER TO ARCHITECTURAL PLANS FOR PAD DETAILS.
- 18) NEW WET CHEMICAL FIRE SUPPRESSION ENCLOSURE AND CONTROL PANEL TO BE WALL MOUNTED AT 7' A.F.F.. REFER TO SCHEMATIC ON THIS DRAWING.
- 19 SUPPLY AND INSTALL RADIANT CEILING PANELS AS PER MANUFACTURERS INSTRUCTIONS. CONNECT MODULATING CONTROL VALVE TO PANEL AND WIRE BACK TO THERMOSTAT.
- FREEZER OUTDOOR CONDENSER UNIT SUPPLIED AND INSTALLED BY THE FREEZER UNIT MANUFACTURER. REFRIGERANT PIPING SUPPLIED AND INSTALLED BY THE FREEZER MANUFACTURER. CONDENSING UNIT TO BE ON 2-24"X24" CONCRETE PATIO SLABS. SLABS TO BE SUPPLIED AND INSTALLED BY THE MECHANICAL DIVISION. CONCRETE SLABS TO REST ON LEVEL FINISHED GRADE. SECURE CONDENSER TO CONCRETE SLABS. FINAL LOCATION OF CONDENSING UNIT TO BE DETERMINED BY THE MANUFACTURER.
- WALK IN REFRIGERATOR OUTDOOR CONDENSER UNIT SUPPLIED AND INSTALLED BY THE REFRIGERATOR MANUFACTURER. REFRIGERANT PIPING TO BE SUPPLIED AND INSTALLED BY THE REFRIGERATOR MANUFACTURER. CONDENSING UNIT TO REST ON 2-24"X24" CONCRETE PATIO SLABS. SLABS TO BE SUPPLIED AND INSTALLED BY THE MECHANICAL DIVISION. CONCRETE SLABS TO REST ON LEVEL FINISHED GRADE. SECURE CONDENSER TO CONCRETE SLABS. FINAL LOCATION TO BE DETERMINED BY THE MANUFACTURER.

GENERAL NOTES

- THE EXISTING SERVICES SHOWN ON THIS DRAWING
 HAVE BEEN TAKEN FROM THE ORIGINAL AS—BUILT
 DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED
 TO BE COMPLETE OR UP—TO—DATE. THE MECHANICAL
 CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF
 ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM
 THE SIZE AND LOCATION OF THESE SERVICES, BEFORE
- THE COMMENCEMENT OF ANY WORK.

 B. ALL DUCTWORK, PIPING, VALVES AND EQUIPMENT TO BE CONCEALED IN CEILING SPACE UNLESS OTHERWISE NOTE

 C. CO-ORDINATE DUCT RUNS WITH PIPING, PLUMBING,
- HEATING AND ELECTRICAL DIVISIONS.

 D. FOR EXACT LOCATION OF GRILLES AND DIFFUSERS REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.

 E. DUCT RUNOUTS TO MATCH GRILLE/DIFFUSER SIZE
- UNLESS OTHERWISE NOTED.

 DUCTWORK LOCATIONS TO BE FULLY CO-ORDINATED WITH GENERAL, PLUMBING, SPRINKLER AND ELECTRICAL CONTRACTORS PRIOR TO FABRICATION OR INSTALLATION.

 ALL CUTTING AND PATCHING OF EXISTING ROOFS, FLOORS
- AND WALLS BY MECHANICAL CONTRACTOR.

 SUPPLY AND INSTALL PIPE SLEEVES FOR PIPES
 PASSING THROUGH EXISTING ROOFS, WALLS OR FLOORS.
 FOR DRAWING LEGENDS SEE DRAWING MO.0

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- ISSUED FOR TENDER- 2024-01-31

2 - ISSUED FOR PERMIT- 202401-18

- ISSUED FOR COORDINATION- 2024-01-19

PROJECT:

Interior Alterations at:

Fort Erie International Academy

7 Tait Ave., Fort Erie, ON



EXP Services Inc.

t: 905.525.6069 | f: 905.528.7310
1266 South Service Road,
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Canada www.exp.com



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TRUE NORTH:

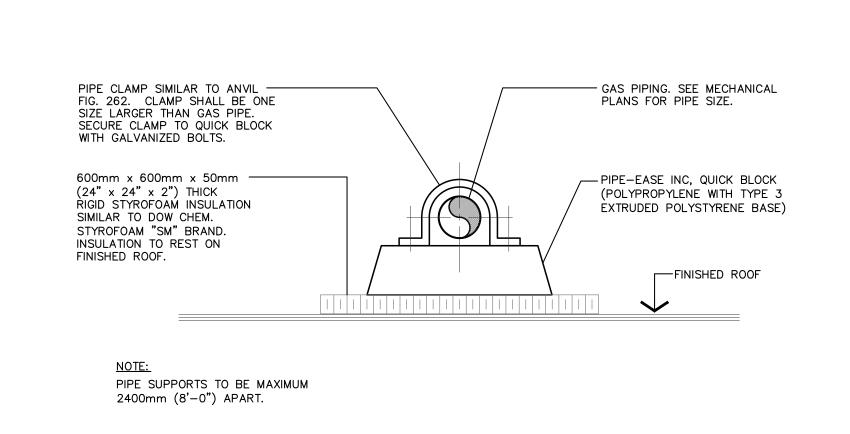


GROUND FLOOR NEW HVAC & SECOND FLOOR PLUMBING PLAN

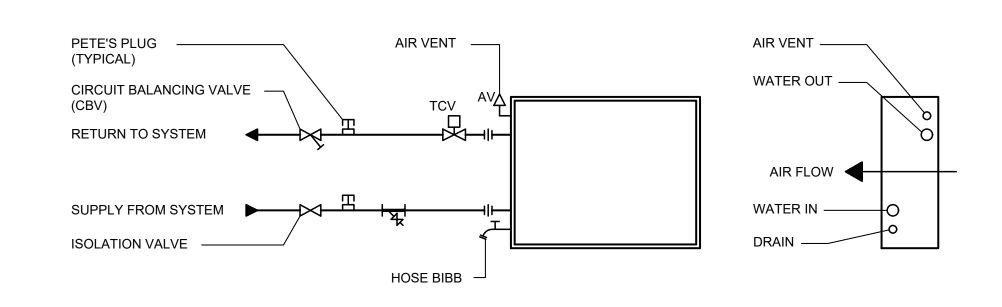
S C A L E :
AS NOTED
D R A W N :

DATE: DECEMBER 2023

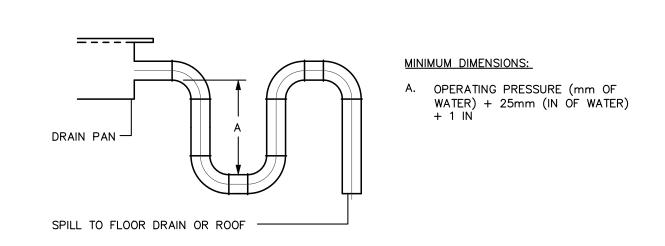
PROJECT #:
ALL-23014405-A0



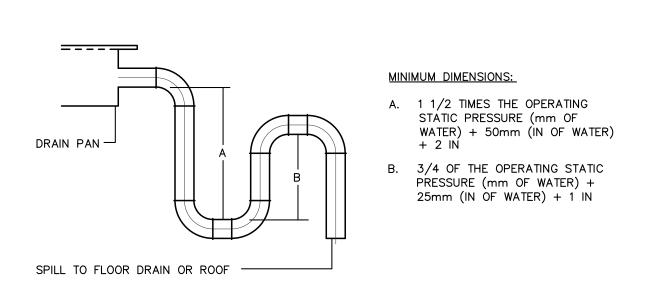
TYPICAL GAS PIPING SUPPORT ON ROOF



FAN COIL UNIT TWO-WAY CONTROL VALVE PIPING SCHEMATIC

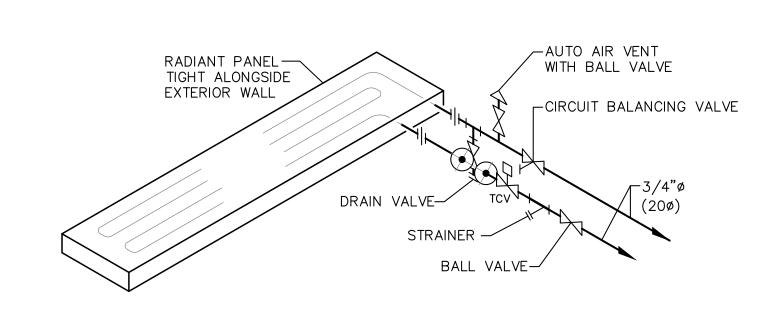


BLOW - THRU SUPPLY AIR UNIT



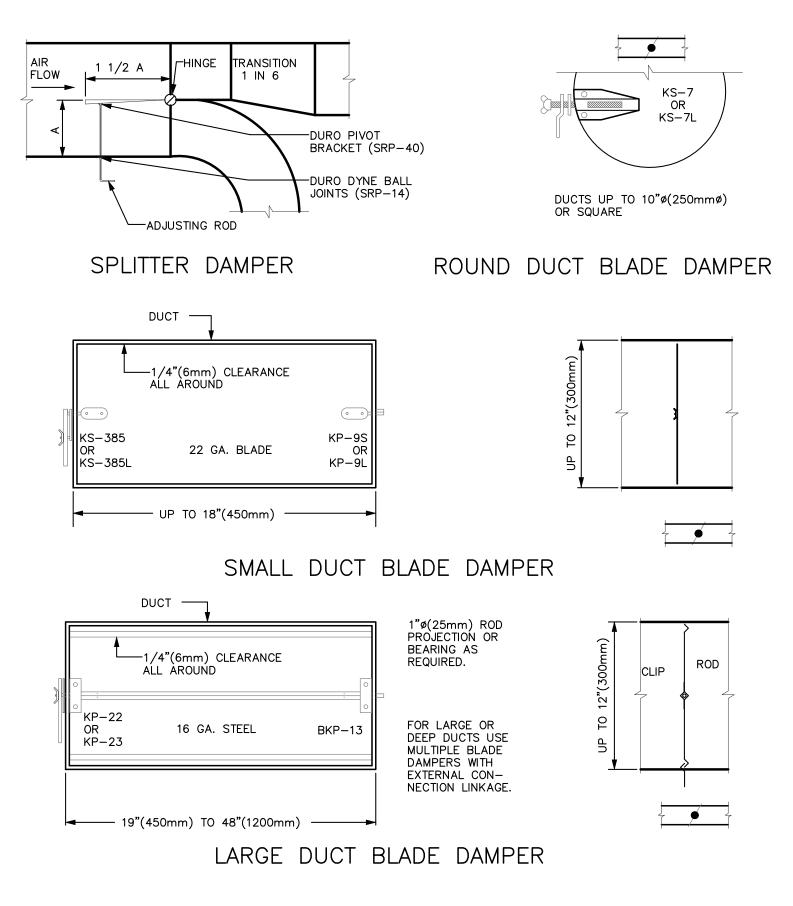
DRAW - THRU SUPPLY AIR UNIT

TYPICAL DRAIN PIPE TRAPS

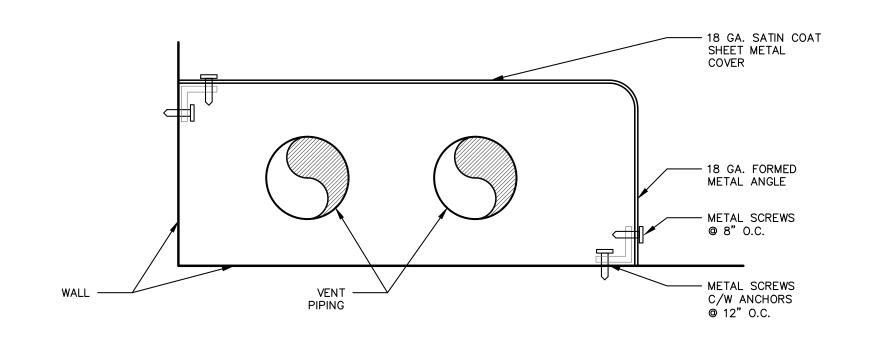


RADIANT CEILING PANEL SCHEMATIC

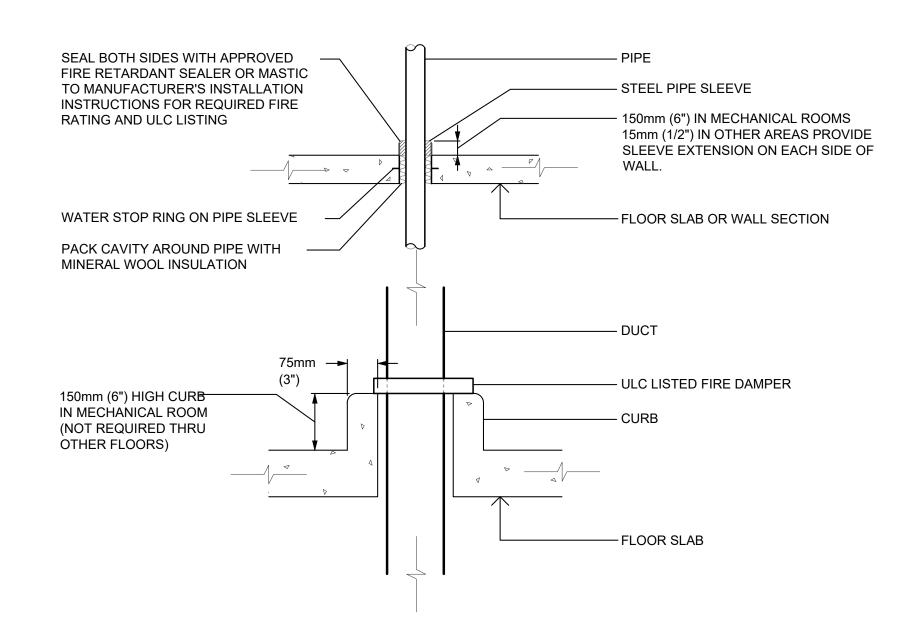
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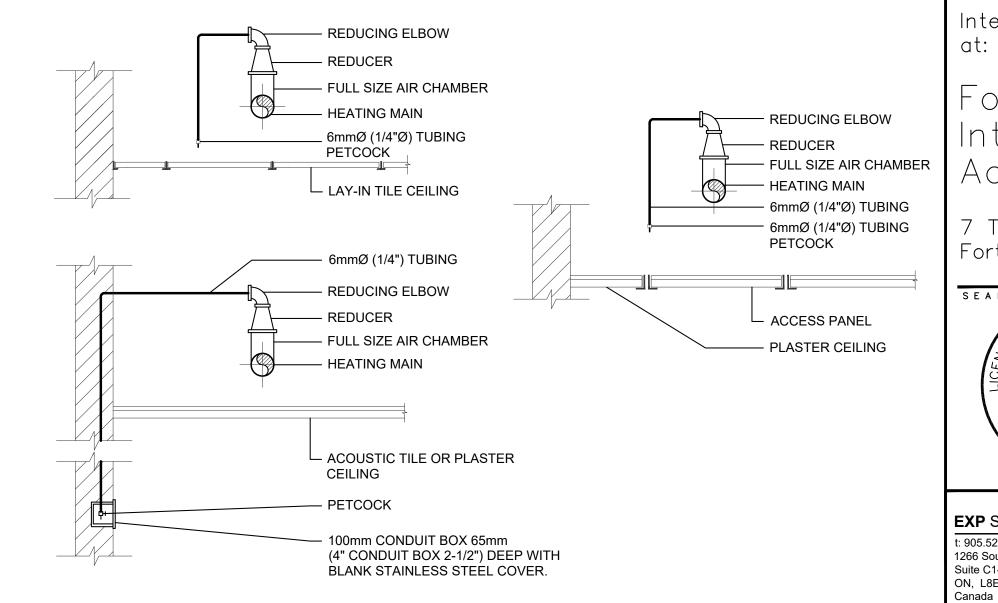
VOLUME DAMPERS



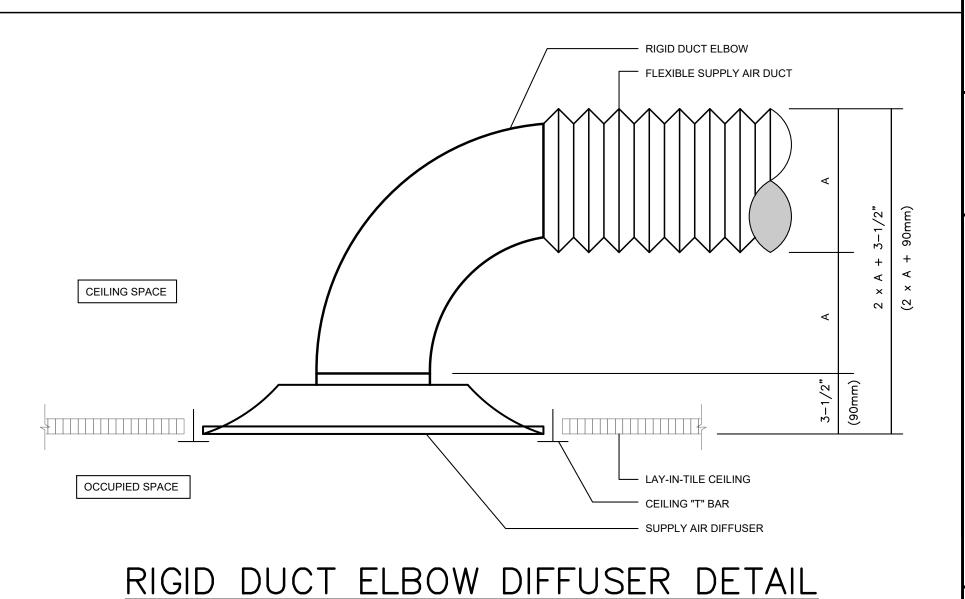
SHEET METAL PIPE ENCLOSURE



TYPICAL FLOOR CURB & SLEEVE DETAILS







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3 - ISSUED FOR TENDER- 2024-01-31 - ISSUED FOR PERMIT- 2024-01-18

PROJECT: Interior Alterations

- ISSUED FOR COORDINATION- 2024-01-

Erie International Academy

7 Tait Ave., Fort Erie, ON



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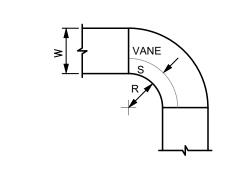
DRAWING TITLE: MECHANICAL **DETAILS**

AS NOTED DRAWN:

DATE: DECEMBER 2023 PROJECT #:

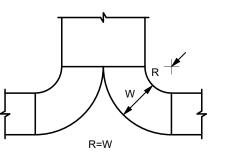
ALL-23014405-A0 DRAWING #:

M5.0

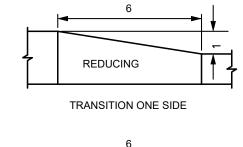


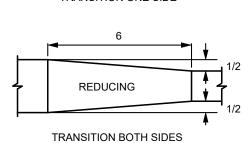
IF 'R' IS LESS THAN 'W' 'S' = 1/3 W

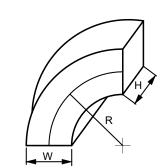
SHORT RADIUS ELBOW - DESIGNATED E3



FULL RADIUS TEE - DESIGNATED T1



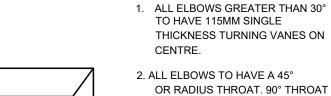




1. H/W AND R/W: 1.0 AND LESS SPLITTER TYPE TURNING VANES MUST BE USED SO THAT 'C' IS LESS THAN 0.15

2. H/W R/W: 1.5 AND LARGE SPLITTER TYPE TURNING VANES ARE NET REQUIRED WHEN 'C' IS LESS THAN 0.15.

FULL RADIUS RECTANGULAR ELBOW -SMACNA 14-10 G ELBOW-DESIGNATED E1



- THICKNESS TURNING VANES ON 2. ALL ELBOWS TO HAVE A 45°
- IS NOT ACCEPTABLE HIGH LOSS. 3. ALL TURNING VANES ARE TO BE ADJUSTED SO THAT THE TRAILING EDGE ARE TANGENT TO THE AIR

STREAM. SMACNA FIG.5-15

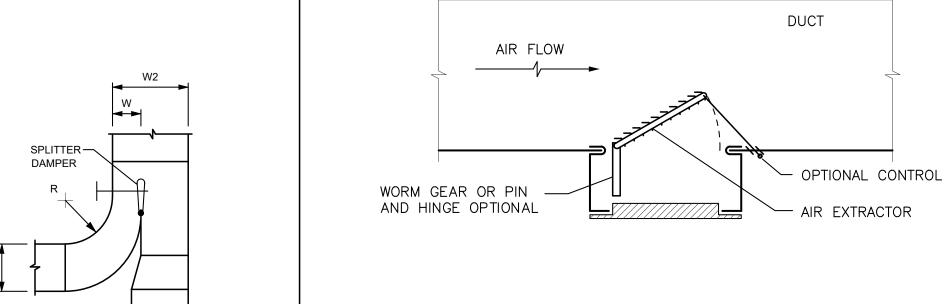
4. DOUBLE THICKNESS TURNING VANES THAT REDUCE THE DUCT AREA MAY NOT BE USED

MITRED RECTANGULAR ELBOW -SMACNA 14-10 D ELBOW-DESIGNATED E2



■ W ▶

- 1. ALL DUCTS AND FITTINGS TO BE CONSTRUCT FABRICATED TO SMACNA H.V.A.C. SYSTEMS DUCT DESIGN 1990 THIRD EDITION LOW FITTING LOSS PRACTICE.
- 2. TRANSITIONS SHALL NOT EXCEED 20° AT VELOCITIES ABOVE 1000/PM.
- 3. R/W EXCEEDING 1.0 SHALL BE USED IN ALL OPEN AREAS.

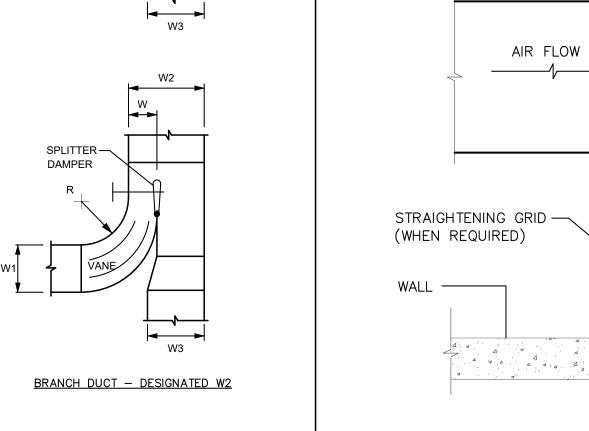


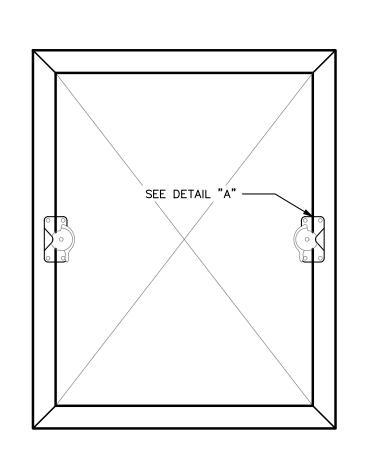
NOTE: REGISTER CONTAINS VOLUME

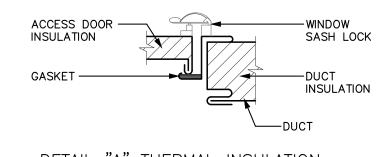
CONTROL AT GRILLE. GRILLE

HAS NO VOLUME CONTROL.

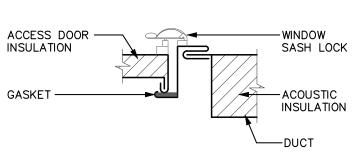
N.T.S.



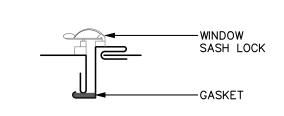




DETAIL "A" THERMAL INSULATION



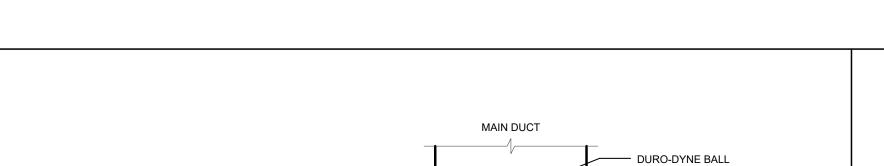
DETAIL "A" ACOUSTIC INSULATION

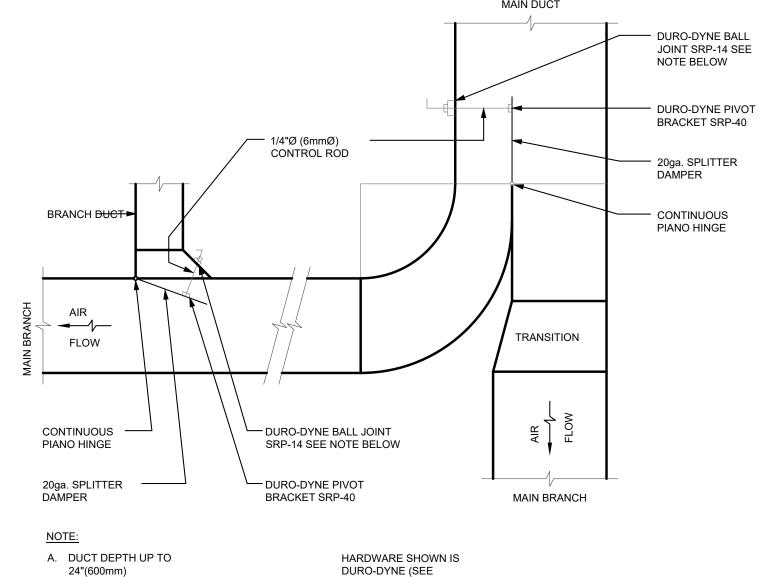


DETAIL "A" NO INSULATION

ACCESS PANEL DETAIL

SQUARE, RADIUS ELBOW AND TRANSITION FITTINGS





2 CONTROL ROD AND BALL JOINTS REQUIRED

1 CONTROL ROD AND

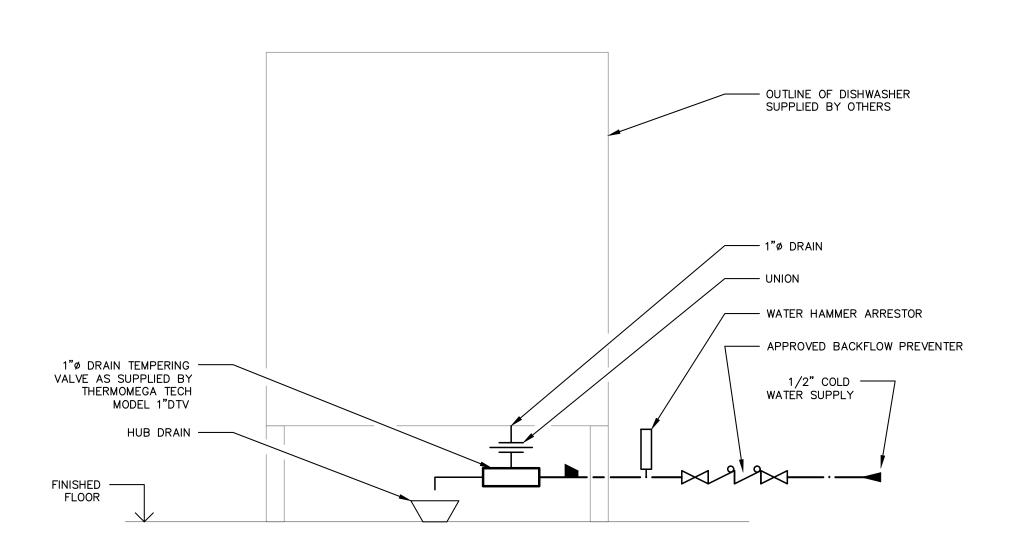
B. DUCT DEPTH OVER

BALL JOINT REQUIRED

TYPICAL DUCT CONNECTION

SPECIFICATIONS FOR

ALTERNATIVES)



DUCT AIR EXTRACTOR DETAIL

DUCT

- AIR EXTRACTOR

- ADJUSTABLE DAMPER

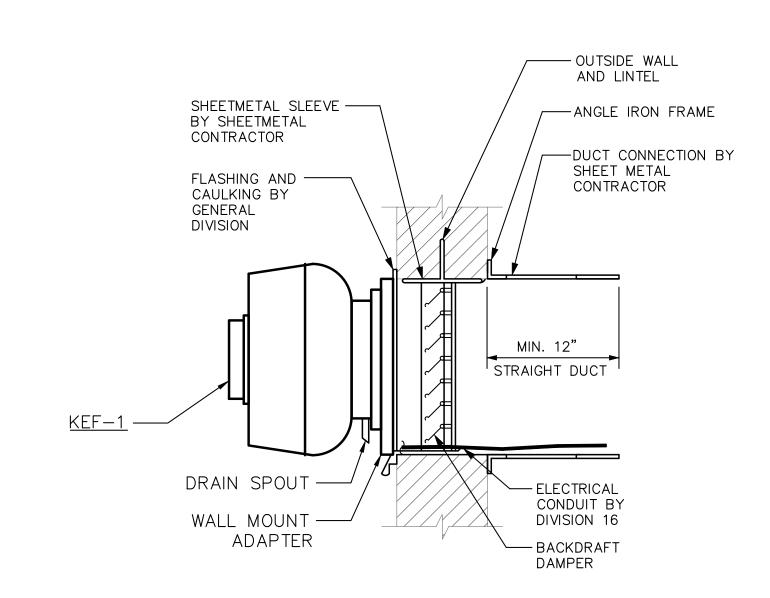
(WHEN REQUIRED)

- SUPPLY REGISTER

GRILLE FLANGES MUST

COVER DUCT FLANGES.

TEMPERING VALVE SCHEMATIC



WALL MOUNTED KITCHEN EXHAUST FAN

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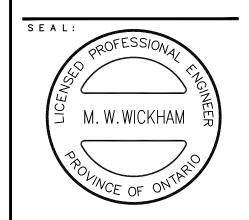
3 - ISSUED FOR TENDER- 2024-01-31

2 - ISSUED FOR PERMIT- 2024-01-18 - ISSUED FOR COORDINATION- 2024-01-1 PROJECT:

Interior Alterations

Fort Erie International Academy

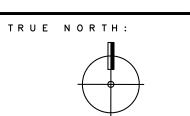
7 Tait Ave., Fort Erie, ON



EXP Services Inc. t: 905.525.6069 | f: 905.528.7310 1266 South Service Road, Suite C1-1, Stoney Creek, ON, L8E 5R9 Canada



● BUILDINGS ● EARTH & ENVIRONMENT ● ENERG • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILIT



DRAWING TITLE: MECHANICAL DETAILS

SCALE: AS NOTED DRAWN:

DATE: DECEMBER 2023

PROJECT #: ALL-23014405-A0 DRAWING #:

JOB NAME:		FORT ERIE INTERNATIONAL A	CA DEM	Y INTE	RIOR RENOV	/ATIONS			JOB No.	ALL-23014405-A0
		MECH	ANICA	L SC	HEDULE	- KITCH	IEN EQUI	PMENT		
DWG.	QUANTITY	DESCRIPTION	1)	WATE	R (IN)	DRA	IN (IN)	GAS (IN)	GAS (MBH)	MECHANICAL REMARKS
DESIGNATION			COLD	НОТ	TEMPERED	DIRECT	INDIRECT	G/ 1.5 (1.1)	S, 10 (111211)	
2	1	WALK-IN FREEZER					3/4"			DRAIN TO GREASE INTERCEPTOR
3	1	WALK-IN REFRIGERATOR					3/4"			DRAIN TO GREASE INTERCEPTOR
4	1	BOILERLESS COMBIOVEN	3/4"				1 1/2"	3/4"	56	DRAIN TO GREASE INTERCEPTOR
5	1	TWO BURNER RANGE/GRIDDLE AND OVEN						3/4"	140	
9	1	POT/DISH SINK	1/2"	1/2"		1 1/2"				DRAIN TO GREASE INTERCEPTOR
11	2	HAND SINK	1/2"	1/2"		1 1/2"				
13	1	FRY ER						1"	110	
14	1	WOK RANGE WITH MANDARIN CHAMBER						3/4"	75	
15	1	TWO COMPARTMENT SINK	1/2"	1/2"		1 1/2"				
21	1	DISHWASHER	3/4"				1"			DRAIN TO GREASE INTERCEPTOR
22	1	SOILED DISH TABLE		1/2"		1 1/2"				DRAIN TO GREASE INTERCEPTOR
24	3	SINGLE STOCKPOT RANGE						3/4"	110	

NOTE: ALL EQUIPMENT BY KITCHEN EQUIPMENT SUPPLIER UNLESS OTHERWISE NOTED. ALL PIPING CONNECTIONS, DRAINS, FLEXIBLE PIPES, ISOLATION

JOB NAME:		FOF	RT ERIE INTER	NATIONAL ACA	DEMY INTERIO	R RENOVATION	ONS		JOB No.	ALL-23014405-A0	
DWG.		MODEL		SIZE (L x W)	NECK SIZE	CF	CFM		IW.G.)	MECHANICAL REMARKS	
DESIGNATION	SERIES FRAME		CORE	(IN)	(IN)	MIN	MIN MAX		MAX	WIECHANICAL REMARKS	
D-01	51400	23	4	24 x 24	10	300	500	0.07	0.15	KRUEGER ALUMINUM SQUARE CONE DIFFUSEI	

ALL GRILLES AND DIFFUSERS TO BE COLOUR WHITE

VALVES, PRESSURE REDUCING DEVICES AND VENTS BY THE DIVISION 15

JOB NAME:		FOR	RT ERIE INTERNATIONAL A C	A DEMY INTERIO	RRENOVATI	ONS		JOB No.	ALL-23014405-A0					
	MECHANICAL SCHEDULE - GRILLES AND REGISTERS													
DWG.		MODEL SIZE (L x W) CFM SP (IN W.G.)		W.G.)	MECHANICAL REMARKS									
DESIGNATION	BORDER	FRAME	CORE	(IN)	MIN	MAX	MIN	MAX	MECHANICAL NEWARRO					
G-01		F22	EGC5	20 x 10	450	1000	0.017	0.083	KRUEGER ALUMINUM EGG CRATE RETURN GRILLE					
G-02		F22	S585	30 x 12	450	1200	0.003	0.019	KRUEGER A LUMINUM RETURN GRILLE, 35 DEG DEFLECTION.					

ALL GRILLES AND DIFFUSERS TO BE COLOUR WHITE

JOB NAME:	FORT ERIE IN	NTERNATIONAL A	VATIONS	ALL-23014405-A0			
DWG.	DWG.	MODEL	AIR FLOW	SIZI	E (IN.)	MECHANICAL REMARKS	
DESIGNATION	NUMBER	MODEL	CFM	WIDTH	HEIGHT	MEGIANICAL NENANO	
WL-1	M4.0	VENTEX 2435	215	12	12	ALUMINUM CONSTRUCTION, 4" DRAINABLE LOUVRE.	
WL-2	M4.0	VENTEX 2435	150	12	12	ALUMINUM CONSTRUCTION, 4" DRAINA BLE LOUVRE.	

JOB NAME:		FOF	RT ERIE INTERNA		JOB No.	ALL-23014405-A0						
DWG.	SYSTEM and	MODEL	SIZE		GPM	PD (FT)	BTWh/FT	OUTPUT	WATER TEMP (°F)		MECHANICAL REMARKS	
DESIGNATION	ROOM	MODEL	LENGTH (FT)	WIDTH (FT)	5 1 III	15(11)		(MBH)	EAT	LAT		
RP-1	INDIA N KITCHEN	ROSEMEX LINEAR CEILING RADIANT PANELS	16	2	1	4.75	393	6.29	180	160	A LUMINUM EXTRUDED RADIANT CEILIGN PANE	
RP-2	INDIA N KITCHEN	ROSEMEX LINEAR CEILING RADIANT PANELS	9	2	0.75	1.53	393	3.54	180	160	ALUMINUM EXTRUDED RADIANT CEILIGN PANE	

NOTES:

1. FIELD VERIFY A CTUAL LENGTH OF PANEL BEFORE COMMENCEMENT OF WORK.

2. PROVIDE A MINMUM OF 0.5 GPM TO EACH TCV (TEMPERATURE CONTROL VALVE) LOOP.

JOB NAME:	FORT ERIE INTERN	ATIONAL ACADEMY IN	ITERIOR RENOVATIONS	JOB No.	ALL-23014405-A0
	MECHAN	ICAL SCHEDULE	- GAS SERVICE PRES	SSURE REDUCING VALVE	E
DWG. DESIGNATION	SYSTEM and ROOM	CAPACTIY (FT³/HR)	INLET PRESSURE (PSIG)	OUTLET PRESSURE (IN W.G)	MECHANICAL REMARKS
GPRV-1	NEW KITCHEN	1400	2	7"-14"	

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3 - ISSUED FOR TENDER- 2024-01-31

2 - ISSUED FOR PERMIT- 2024-01-18 1 - ISSUED FOR COORDINATION- 2024-01-1

PROJECT:

Interior Alterations at:

Fort Erie Internation Academy

7 Tait Ave., Fort Erie, ON



EXP Services Inc.

t: 905.525.6069 | f: 905.528.7310
1266 South Service Road,
Suite C1-1, Stoney Creek,
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TRUE NORTH:



MECHANICAL SCHEDULES

SCALE:

DRAWN:

DATE: DECEMBER 2023

PROJECT #: ALL-23014405-A0

DRAWING #:

M6.0

156.1

(°F)

10

(°F)

49.1

(MBH)

400

(°F)

80.2

(°F)

-1.8

(MBH)

324

15:1

DUTDOOR MAKE UP AIR UNITAIRSOURCE HEATPUMF

INSTALLED DISCONNECT.

KITCHEN HOOD CONTROLLER, CSA CERTIFIED

ITEM: CONTROL PANEL, MODEL: RPD-P11-MW-SW-AS EMC TYPE: REMOTE EXHAUST MOTOR STARTER(S)

HGRH, EC OUTDOOR FAN,MERV 8 FILTERS. C/W FACTORY

HEAINTG/COOLING WITH SECONDARY GAS HEAT. STAINLESS STEEL

HEAT EXCHANGER, INVERTER SCROLL COMPRESSOR, MODULATING

52.7

60

600/3

VFD (D15)

CONTROLLER

JOB NAME:									FO	RT ERIE INTERN	NATIONAL A CA	DEMY INTERIOR	RENOVATION	3							JOB No.	ALL-23014405-A0
										М	ECHANICAL	SCHEDULE	- EXHAUST	HOOD								
DWG.	SVSTEM and BOOM	MODE	EXHAUS	T DUCT CONN	NECTION	SUPPLY	DUCT CONNE	ECTION	HOOD SIZE (L x	C	FM	MAX GREASE EXTRACTOR	WEGHT	MECHANICAL DEMARKS		WIRI	NG FOR MEC	CHANICAL E	QUIPMENT S	SCHEDULE		ELECTRICAL MURING INCTRUCTIONS
DESIGNATION	SYSTEM and ROOM	MODEL	SIZE (L x W) (IN)	STATIC PRESSURE (IN.WC)	QTY	SIZE (L x W) (IN)	STATIC PRESSURE (IN.WC)	QTY	WxH) (IN)	EXHAUST	SUPPLY	RATING (CFM/L.F.)	(LBS)	MECHANICAL REMARKS	MOTOR Wor HP	MCA FLA	МСОР	VACIØ	ROOM STARTER TYPE	REMOTE CONTROL DEVICE	DISC. TYPE	ELECTRICAL WIRING INSTRUCTIONS
KEH-1	KITCHEN EXHAUST	SPRINGA IR FN-B-MB-8.33/4.5	16 x 10	0.64	1	28 x 8	0.2	2	100 x 54 x 23	1674	1591	500	458	DY NAFLOW WALL MOUNTED EXHAUST HOOD, INTEGRAL WET CHEMICAL FIRE PROTECTION SYSTEM, GREASE TRAP, AIR DIFFUSER. LED LIGHTING CIRCUIT	30 W	0.25		120/1	-	KITCHEN HOOD CONTROLLER	-	DIVISION 16 TO WIRE 120/1 TO FAN ON KITCHEN HOOD. ALL CONTROLS WIRING BY KITCHEN HOOD SUPPLIER
KEH-2	KITCHEN EXHA UST	SPRINGA IR FN-B-MB-9.33/4.5	21 x 10	0.62	1	28 x 8	0.2	2	112 x 54 x 23	2174	2071	500	513	DY NA FLOW WALL MOUNTED EXHAUST HOOD, INTEGRAL WET CHEMICAL FIRE PROTECTION SYSTEM, GREASE TRAP, AIR DIFFUSER, LED LIGHTING CIRCUIT	45 W	0.38		120/1	-	KITCHEN HOOD CONTROLLER	-	DIVISION 16 TO WRE 120/1 TO FAN ON KITCHEN HOOD. ALL CONTROLS WRING BY KITCHEN HOOD SUPPLIER

94.5

71.7

162.5

JOB NAME:								FORT	ERIE INTERN	IATIONAL ACAD	EMY INTERIO	OR RENOVATIONS							JOB No.	ALL-23014405-A0
								MECH	ANICAL S	CHEDULE -	FAN COII	LS								
				CF	M		COOLING		HEATING	3				WI	RING FOR M	ECHANICAL	EQUIPMENT S	CHEDULE		
DWG. DESIGNATION	SYSTEM and ROOM	MODEL	SPEC TYPE	SUPPLY	OA	TSP (IN W.G)	TOTAL COOLING (MBH)	TOTAL HEATING (MBH)	FLOW RATE (GPM)	PRESSURE DROP (FT H20)	WEIGHT LBS	MECHANICAL REMARKS	MOTOR W or HP	MCA	МСОР	VAC/ø	ROOM STARTER TYPE	REMOTE CONTROL DEVICE	DISC. TYPE	ELECTRICAL WIRING INSTRUCTIONS
FC-1	KITCHEN	TRANE BCHE036	DX/2 PIPE	1200	215	1.6	38.33	54.8	5.23	8	210	FANCOIL UNIT, MERV 13 FILTER RACK, DX COIL, HW COIL, FACTORY COTNROLS.	668 W	5.75	15	208/3	BIC	T (D15)	C2	DIVISION 16 TO PROVIDE DISCONNECT SWITCH AND WIRE 600V/3 TO UNIT VIA DISCONNECT. ALL CONTROLS WIRING BY DIVISION 15.

(°F)

88.1/74.4

(°F)

47.7/47.7

316

NOTE: 1) ALL CONTROL WIRING ARE TO BE CARRIED OUT IN 2 CORE 16AWG SHIELDING CABLE WITH COLOUR CODING AND TAGGED ID NUMBERS AT 3 METRE INTERVALS AS FOR EASE OF IDENTIFICATION AND MAINTENCE. CONTROL WIRING SHALL NOT BE RUN NEXT TO POWER WIRING. A MINUM SPACE OF 100mm BETWEEN BOTH CONTROL AND POWER CALBES SHALL APPLY

3,655

DRIVE

SUPPLY

JOB NAME:					FORT ERIE	INTERNATIONAL A	CADEMY INTERIOR RENOVATIONS							JOB No.:	ALL-23014405-A0
						MECH	ANICAL SCHEDULE - CONDENSING UNI	TS							
DWG.	EVAPORATOR UNIT			WBGHT	cc	OLING			WIRIN	NG FOR MEC	HANICAL	EQUIPMENT SO	CHEDULE		
DESIGNATION	DESIGNATION	SYSTEM and ROOM	MODEL	(LBS)	AMBIENT (°F)	CAPACITY (Nom. Ton)	MECHANICAL REMARKS	MOTOR W or HP	MCA FLA	МСОР	VAC/ø	ROOM STARTER TYPE	REMOTE CONTROL DEVICE	DISC. TYPE	ELECTRICAL WIRING INSTRUCTIONS
CU-1	FC-1	ROOF	TRANE 4TTA4036A3000A	183	115	3	REMOTE CONDENSER, SPLIT SYSTEM AIR CONDITIONER. COORDIANTE REFRIGERANT PIPE SIZING WITH MANUFACTURER.		12	20	208/3	BIC	FC-1	αR	DIVISION 16 TO PROVIDE DISCONNECT SWTCH AND WIRE 208V/3 TO UNIT VIA DISCONNECT. ALL CONTROLS WIRING BY DIVISION 15.

JOB NAME:			-	-	FOR	T ERIE INTERI	NATIONAL A CA DEMY	INTERIOR RENOVATIONS		-					JOB No.	ALL-23014405-A0
								MECHANICAL SCHEDULE - F	ANS							
											WIRING FO	RMECHANIC	CAL EQUIPMENT SCHE	DULE		
DWG. DESIGNATION	SYSTEM and ROOM	MODEL	FLOW (CFM)	ESP (IN W.G.)	RPM	VFD	WEIGHT LBS	MECHANICAL REMARKS	MOTOR HP or W	FLA	МСОР	VAC/ø	ROOM STARTER TYPE	REMOTE CONTROL DEVICE	DISC. TYPE	ELECTRICAL WIRING INSTRUCTIONS
EF-1	STAFF WASHROOM	PENN BARRY ZJ1	157	0.13	1020	NO	10	LOW PROFILE CEILING FAN, BACK DRAFT DAMPER, ADJUSTABLE MOUNTING FLANGES	125 W			115/1	-	-	SW	DIVISION 16 TO WRE TO ROOM LIGHTING CIRCUIT AND LIGHTING CONTROL. FAN RUNS WHEN LIGHTS ARE TURNED "ON" AND STOPS WHEN LIGHTS ARE TURNED "OFF"
KEF-1	KITCHEN EXHAUST	PENN BARRY FX18BH	3848	1.6	1328	NO		WALL MOUNTED UPBLAST SPUN ALUMINUM EXHAUST FAN, C/W CURB CAP, WALL MOUNTING ADAPTER, HINGED SUB-BASE.	3 HP	2.7		600/3	OUTDOOR COMBO H-O-A PL	KITCHEN HOOD CONTROLLER	C3R	DIVISION 16 TO PROVIDE DISCONNECT SWITCH AND WIRE 600V/3 TO FAN VIA DISCONNECT. ALL CONTROLS WIRING BY DIVISION 15.

WIRING FOR MECHANICAL EQUIPMENT SCHEDULE LEGEND

DUTDOOR ON

GRA DE

VX-212-25A-M-

MUA

3683

MUA-1

- AM ACTUATOR MOTOR
- APS AIR PROVING SWITCH
- CONTROL BY BUILDING AUTOMATION SYSTEM CONTRACTOR
- BIC BUILT IN CONTROLLER
- EEMAC-1 TYPE DISC. SWITCH
- C2 EEMAC-2 TYPE DISC. SWITCH
- C3R EEMAC-3R TYPE DISC. SWITCH C4 - EEMAC-4 TYPE DISC. SWITCH
- C12 EEMAC-12 TYPE DISC. SWITCH
- COMB COMBINATION MAGNETIC STARTER
- CP CONTROL PANEL
- CSR CURRENT SENSING RELAY
- CT CONTROL TRANSFORMER
- CWSV COLD WATER SOLENOID VALVE
- (D15) ITEM ADJACENT IS SUPPLIED, INSTALLED AND WIRED BY MECHANICAL DIVISION.
- (D15A) —ITEM ADJACENT IS SUPPLIED AND INSTALLED BY MECHANICAL DIVISION. ELECTRICAL DIVISION
- (D16) ITEM ADJACENT IS SUPPLIED BY MECHANICAL

DIVISION. ELECTRICAL DIVISION INSTALLS AND

- DISC DISCONNECT
- DM DAMPER MOTOR
- DMSW DAMPER MOTOR SWITCH

WIRES ITEM.

WIRING FOR MECHANICAL EQUIPMENT SCHEDULE LEGEND

- DVR DOUBLE VOLTAGE RELAY
- FA FIRE ALARM SYSTEM CONNECTION
- FAIM ADDRESSABLE FIRE ALARM INPUT MODULE
- FACR ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE
- FL FLOAT SWITCH FLA - FULL LOAD RUNNING AMPERES
- FPU FIELD PROCESSOR UNIT BY DIV. 15900*
- FPU/SS START/STOP CONTROL OUTPUT FROM FPU*
- FPU/ST MOTOR RUNNING STATUS INPUT TO FPU*
- FRAC FRACTIONAL HORSEPOWER FS - FLOW SWITCH
- GSV GAS SOLENOID VALVE
- HOA HAND/OFF/AUTO SWITCH IN STARTER COVER
- HUM HUMIDISTAT HWSV - HOT WATER SOLENOID VALVE
- IRS INFRARED SENSOR
- \mid KMSW KEY OPERATED MOMENTARY CONTACT SWITCH \mid
- KSW/PL KEY SWITCH(15A, 120V,SPST, LOCK TYPE C/W PILOT LIGHT)
- LS LEVEL SWITCH
- LWCO LOW WATER CUT OFF MAG - MAGNETIC STARTER
- LS LEVEL SWITCH
- LWCO LOW WATER CUT OFF

WIRING FOR MECHANICAL **EQUIPMENT SCHEDULE LEGEND**

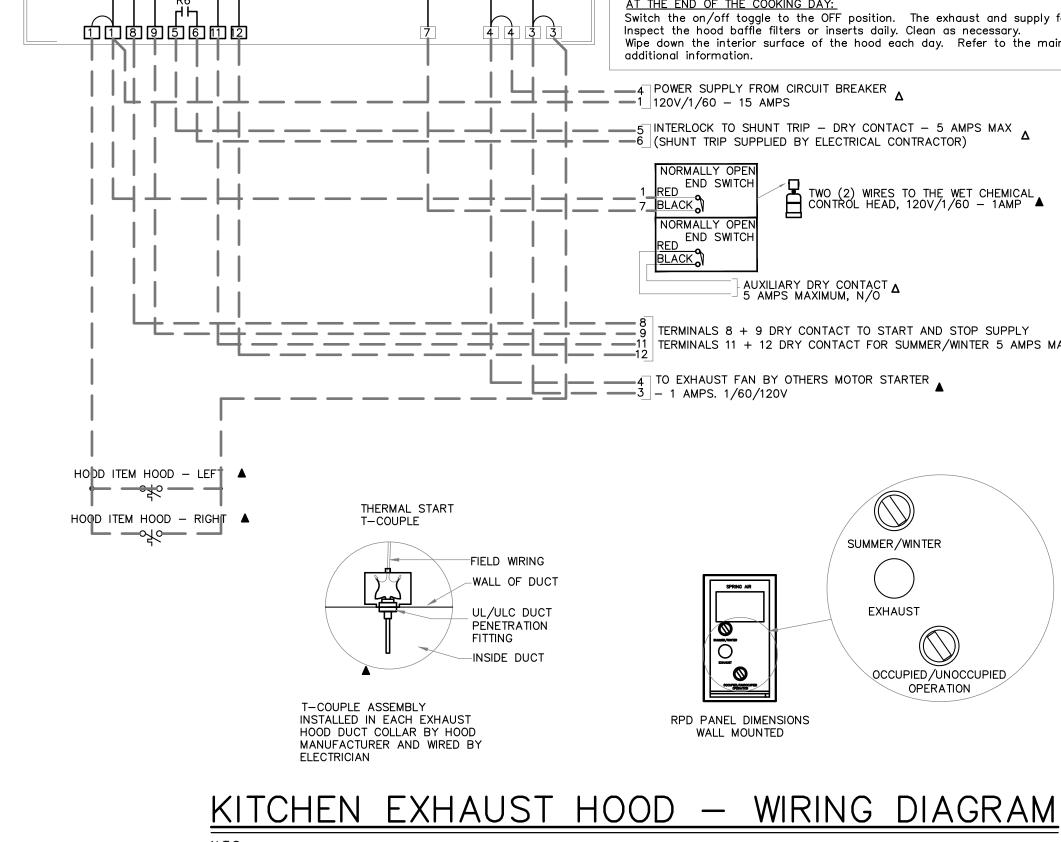
- MAG MAGNETIC STARTER
- MAN MANUAL STARTER
- MCA MINIMUM CIRCUIT AMPS
- MCC MOTOR CONTROL CENTRE
- MFA MAXIMUM FUSE AMPACITY
- MOCP MAXIMUM OVER CURRENT PROTECTION
 - MVS MONITORED VALVE SWITCH ODT - OFF DELAY TIMER
 - PB PUSHBUTTON ON/OFF SWITCH IN STARTER COVER
 - PL PILOT LIGHT IN STARTER COVER
 - PLG 120V RECEPTACLE BY ELECTRICAL DIVISION
 - PS PRESSURE SWITCH
 - RPB REMOTE STOP/START PUSHBUTTON
 - RPL REMOTE PILOT LIGHT
 - SD SMOKE DETECTOR (DUCT TYPE)
 - SS SPEED SWITCH SLS & PL - SELECTOR SWITCH AND PILOT LIGHT
 - SW HP RATED TOGGLE SWITCH
 - TC TEMPERATURE CONTROLLER

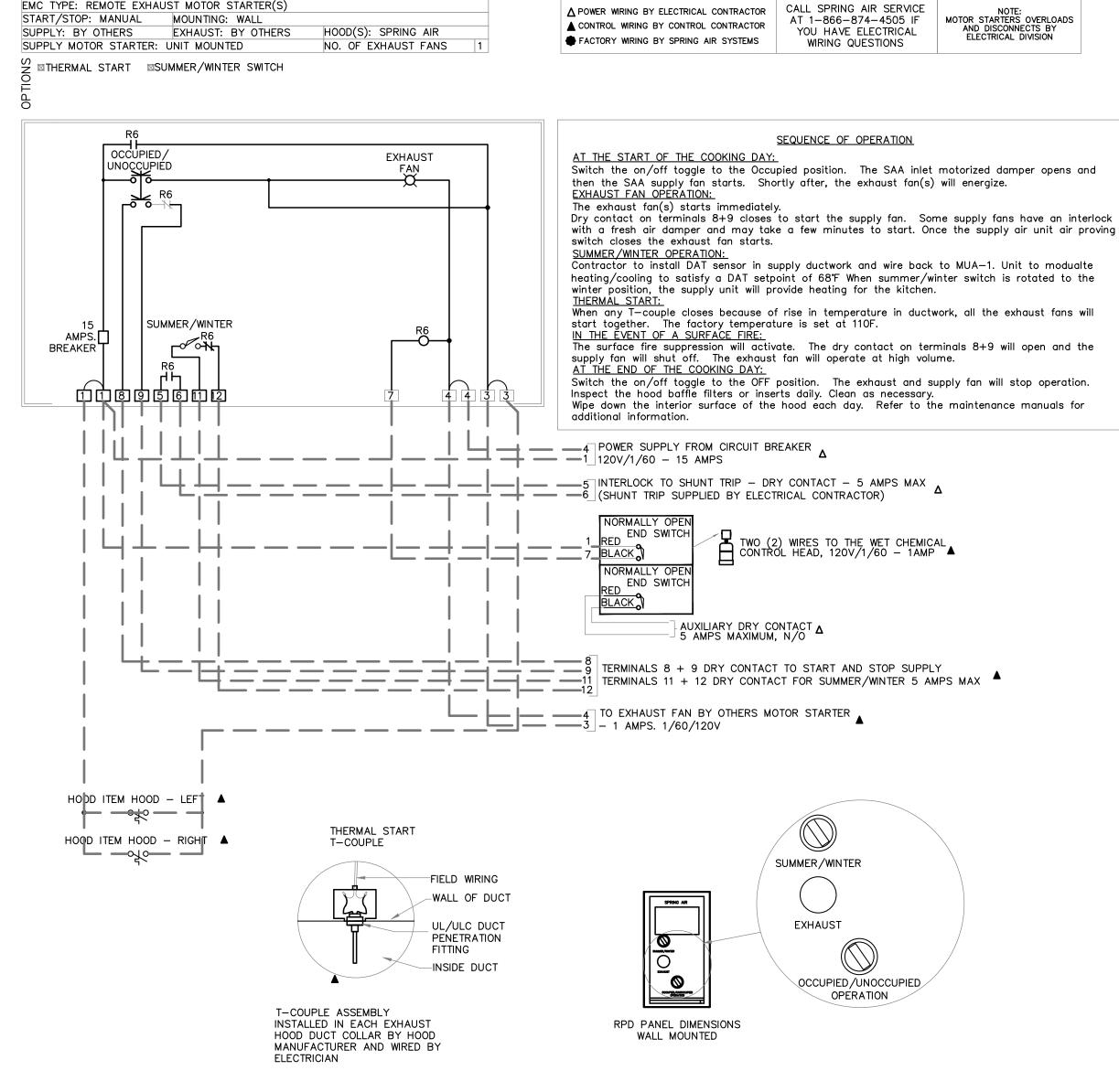
SV - SOLENOID VALVE

- TI TIMER (INTERVAL)
- T7 TIMER (7-DAY)
- TRS THERMOSTAT REVERSING SWITCH

WIRING FOR MECHANICAL EQUIPMENT SCHEDULE LEGEND

- TS THERMOSTAT
- T THERMOSTAT OR TEMPERATURE SENSING UNIT
- VM VALVE MOTOR
- VFD VARIABLE FREQUENCY (OR SPEED) DRIVE
- (VSD)
- TOA TEST/OFF/AUTO SWITCH IN STARTER COVER.





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DIVISION 16 TO PROVIDE DISCONNECT SWITCH

ALL CONTROLS WIRING BY DIVISION 15.

KITCHEN HOOD C3R (D15A) AND WIRE 600V/3 TO FAN VIA DISCONNECT.

THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MUST CONFIRM & CORRELATE ALL DETAILS WITHIN THE FULL DRAWING PACKAGE BEING RESPONSIBLE FOR SAME THROUGHOUT CONSTRUCTION, REPORTING ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING THE DELEVANT MORE RELEVANT WORK

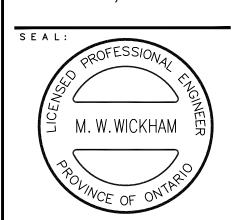
ALL DRAWINGS, DETAILS & SPECIFICATIONS REPRESENTED IN THE DRAWINGS ARE TO BE USED FOR CONSTRUCTION ONLY WHEN ISSUED BY THE ARCHITECT AND NOTED ACCORDINGLY IN THE "ISSUE/REVISIONS"

1 - ISSUED FOR PERMIT- 2024-01-18

2 - ISSUED FOR TENDER- 2024-01-31

PROJECT: Interior Alterations

7 Tait Ave., Fort Erie, ON



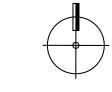
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 ■ BUILDINGS
 ■ EARTH & ENVIRONMENT
 ■ ENERG INDUSTRIAL ● INFRASTRUCTURE ● SUSTAINABILIT

TRUE NORTH:



DRAWING TITLE: MECHANICAL & ELECTRICAL SCHEDULES

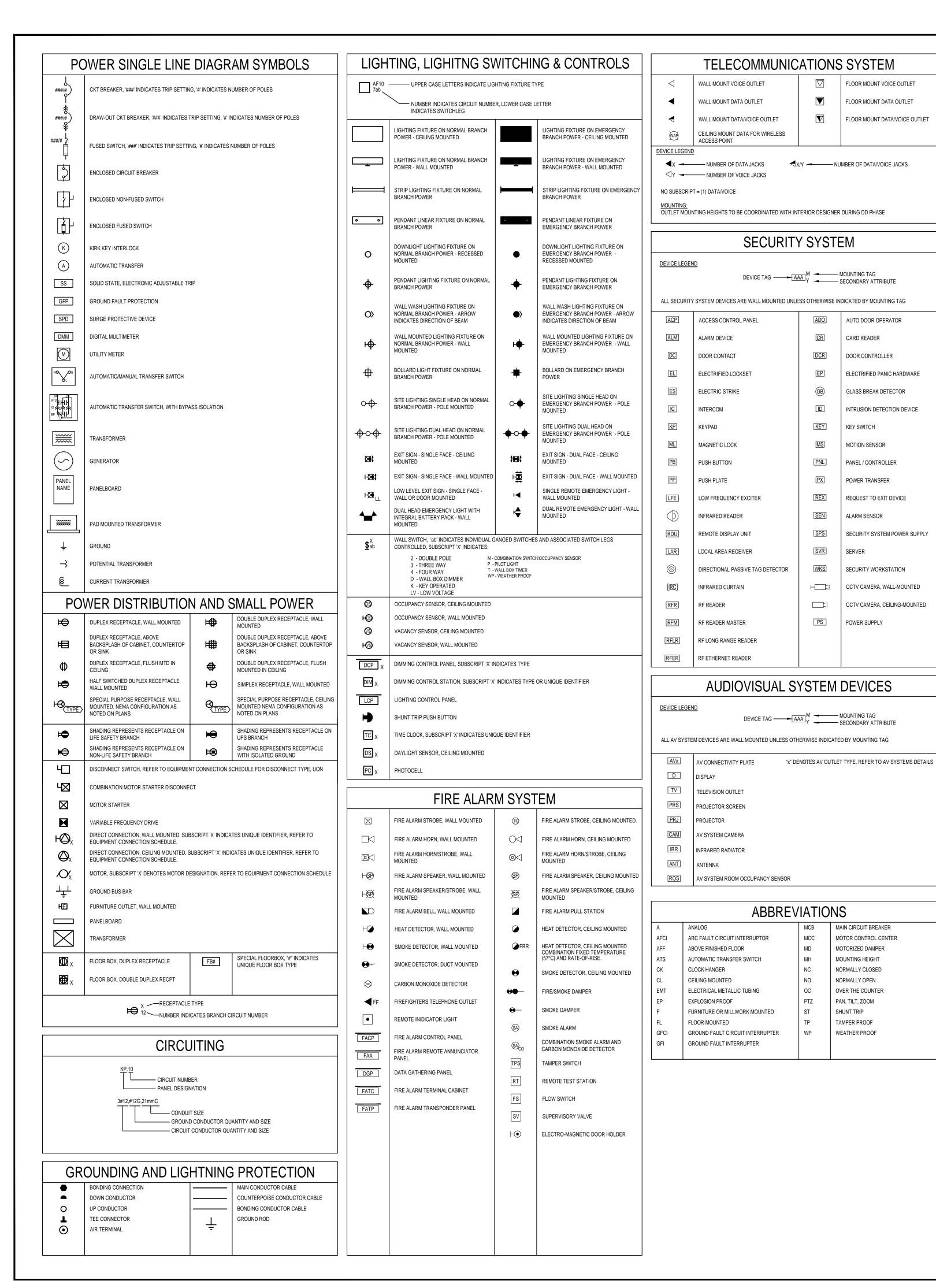
SCALE: AS NOTED

DECEMBER 2023

DRAWN:

PROJECT #:

ALL-23014405-A0



AUDIOVISUAL SYSTEM DEVICES (CONTINUED) PS AV SYSTEM PARTITION SENSOR LS PHOTOMETRIC SENSOR BN BACnet INTERFACE TO AV SYSTEM LIGHTING INTERFACE TO AV SYSTEM SI SHADE/DRAPE INTERFACE TO AV SYSTEM MIC MICROPHONE TS TOUCH SCREEN RSP ROOM SCHEDULING PANEL RSS ROOM SCHEDULING SIGN BP BUTTON PANEL S AV SYSTEM SPEAKER SUB SUBWOOFER SPEAKER LCR LOCAL CREDENZA RACK AVR AV RACK FBx "x" DENOTES TYPE. REFER TO AV SYSTEMS DETAILS FLOOR BOX PTx POKE THROUGH "x" DENOTES TYPE. REFER TO AV SYSTEMS DETAILS TBx "x" DENOTES TYPE. REFER TO AV SYSTEMS DETAILS TABLE BOX MISCELLANEOUS DEVICES JB JUNCTION BOX, WALL MOUNTED JUNCTION BOX, CEILING MOUNTED CONTACTOR, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER CONTROL RELAY & REQUIRED INPUT/OUTPUT MODULE **DEMOLITION** EXISTING TO BE REMOVED < R > EXISTING TO BE RELOCATED < RL > EXISTING TO REMAIN < EX > < NL > **EXISTING - NEW LOCATION**

TAGS AND CALL OUT SYMBOLS

- — — DEMOLITION CONDUIT

DEMOLITION EQUIPMENT

— EXISTING TO REMAIN CONDUIT

EXISTING TO REMAIN EQUIPMENT

SECTION CALLOUT

DETAIL CALLOUT

REVISION CALLOUT

1 SECTION DESIGNATION

A DETAIL DESIGNATION

E3.1 SHEET NUMBER

E3.1 SHEET NUMBER

DRAWING LIST

- E0.0 ELECTRICAL LEGEND & DRAWINGS LIST
- 2. E1.0 ELECTRICAL SPECIFICATION & DEMOLITION & GENERAL NOTES
- 3. E2.0 ELECTRICAL GROUND FLOOR OVERALL & DEMOLTION PLANS
- 4. E2.1 ELECTRICAL GROUND FLOOR PLANS NEW LIGHITNG & POWER & SYSTEMS
- 5. ME1.0 MECHANICAL & ELECTRICAL SCHEDULES

ALL DRAWINGS, THE DESIGN, AND THE DETAILS THEREON REMAIN THE PROPERTY OF THE CONSULTANT AND ARE NOT TO BE ALTERED, RE-USED OR REPRODUCED WITHOUT THE CONSULTANT'S EXPRESS WEITTEN CONSENT. WRITTEN CONSENT.

THESE DRAWINGS ARE NOT TO BE SCALED

THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MUST CONFIRM & CORRELATE ALL DETAILS WITHIN THE FULL DRAWING PACKAGE BEING RESPONSIBLE FOR SAME THROUGHOUT CONSTRUCTION, REPORTING ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING THE RELEVANT WORK ALL DRAWINGS, DETAILS & SPECIFICATIONS REPRESENTED IN THE DRAWINGS ARE TO BE USED FOR CONSTRUCTION ONLY WHEN ISSUED BY THE ARCHITECT AND NOTED ACCORDINGLY IN THE "ISSUE/REVISIONS"

3 - ISSUED FOR TENDER - 2024-01-31

2 - ISSUED FOR PERMIT - 2024-01-18 1 - PROGRESS SET - 2023-11-29

PROJECT:

Interior Alterations

Fort Erie Internationa Academy

7 Tait Ave., Fort Erie, ON



EXP Services Inc. t: 905.525.6069 | f: 905.528.7310 1266 South Service Road, Suite C1-1, Stoney Creek, ON, L8E 5R9

Canada



 ■ BUILDINGS
 ■ EARTH & ENVIRONMENT
 ■ ENERG NDUSTRIAL ● INFRASTRUCTURE ● SUSTAINABILIT



DRAWING TITLE:

TRUE NORTH:

ELECTRICAL Legend & Drawing List

SCALE: AS NOTED

DRAWN:

DECEMBER 2023

PROJECT #: ALL-23014405-A0

DRAWING #:

E0.0

ELECTRICAL SPECIFICATIONS

RELATED INSTRUCTIONS

- 1.1. THIS SPECIFICATION SHALL APPLY TO AND GOVERN ALL WORK BY DIVISION 16.
- FURNISH ALL LABOUR, MATERIAL, TOOLS, EQUIPMENT, ETC., REQUIRED TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED THE WORK SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS OF ALL AUTHORITIES HAVING LEGAL JURISDICTION OVER THE WORK. PROVIDE ANY SMALL ITEMS OF WORK NOT SPECIFICALLY CALLED FOR BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATION.
- THE WORK OF THE ELECTRICAL DIVISION SHALL BE COORDINATED WITH THE WORK OF OTHER DIVISIONS TO AVOID INTERFERENCE. COORDINATE THE WORK TO ENSURE THE BEST INSTALLATION.
- 1.4. REMOVE ALL DEBRIS AND WASTE MATERIALS FROM THE SITE CAUSED BY THIS CONTRACTOR IN THE PERFORMANCE OF THE ELECTRICAL WORK.
- 1.5. THIS DIVISION SHALL CARRY OUT ANY CUTTING. DRILLING. CORING. PATCHING NECESSARY FOR THE ELECTRICAL WORK. PROVIDE APPROVED ULC FIRE STOP CONDUITS PENETRATING FIRE—RATED ASSEMBLIES.

2. LIABILITY INSURANCE

OBTAIN AND CARRY PROPER INSURANCE TO FULLY PROTECT BOTH THE OWNER AND HIMSELF FROM ANY AND ALL CLAIMS DUE TO ACCIDENTS, MISFORTUNES, ACTS OF GOD, ETC.

3. CODES, PERMITS AND INSPECTION

- 3.1. BUILDING PERMIT SHALL BE OBTAINED BY OWNER.
- 3.2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR, AND OBTAIN ALL OTHER PERMITS, INSPECTIONS, VERIFICATIONS, ETC., AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION OVER THIS WORK AND PAY FOR ALL FEES RELATED TO SAME.
- 3.3. DELIVER ALL PERMITS TO THE OWNER AS SOON AS THEY BECOME AVAILABLE
- 3.4. AT THE CONCLUSION OF THE PROJECT, SUBMIT TO THE OWNER, THE ELECTRICAL SAFETY AUTHORITY FINAL ACCEPTANCE CERTIFICATE.

. DRAWINGS

- 4.1. DO NOT SCALE THE DRAWINGS ANY INFORMATION INVOLVING ACCURATE MEASUREMENTS SHALL BE OBTAINED FROM THE BUILDING.
- 4.2. THE DRAWINGS INDICATE THE GENERAL LOCATION AND ROUTE OF THE CONDUITS, WIRING DEVICES, EQUIPMENT, ETC. AND ARE SHOWN DIAGRAMMATICALLY ONLY CHANGE LOCATION OF ANY DEVICE/FOUIPMENT WITHIN 3M OF INDICATED LOCATION AT NO ADDITIONAL COST TO OWNER PROVIDED INSTRUCTIONS ARE RECEIVED PRIOR TO COMMENCING ROUGH-IN

 12. OUTLET, PULL AND JUNCTION BOXES WORK. PRIOR TO COMMENCING ANY ROUGH-IN OR INSTALLATION WORK VISIT SITE, MEET WITH THE OWNERS REPRESENTATIVE AND CONFIRM EXACT LOCATION OF ALL DEVICES.
- 4.3. WHERE INCONSISTENCIES OCCUR, NOTIFY THE CONSULTANT/OWNER IMMEDIATELY AND DO NOT PROCEED WITH THE WORK UNTIL WRITTEN INSTRUCTIONS ARE RECEIVED FROM CONSULTANT/OWNER.

5. RECORD DRAWINGS AND EQUIPMENT MANUALS

- 5.1. AS THE PROJECT PROGRESSES, RECORD, ON A SET OF WHITE PRINTS, ALL ADDENDA. CHANGES TO AND DEVIATIONS FROM THE PLANS MADE DURING THE CONSTRUCTION PERIOD. ALSO, RECORD THE LOCATION OF ALL 12.4. ALL OUTLET BOXES SHALL BE SUPPORTED INDEPENDENTLY OF THE LIGHT FIXTURES AND OTHER ELECTRICAL EQUIPMENT AND WIRING FOR
- MAKE THESE PROGRESS RECORD DRAWING WHITE PRINTS AVAILABLE TO 5.2. THE CONSULTANTS FOR THEIR REVIEW AT ALL TIMES DURING THE CONSTRUCTION PERIOD
- 5.3. AT THE CONCLUSION OF THE PROJECT, TRANSFER ALL RECORD DRAWING INFORMATION TO A UNIVERSAL SERIAL BUS (USB).
- THE CONSULTANT SHALL PROVIDE TO THE CONTRACTOR AN ELECTRONIC REPRESENTATION OF THE DRAWINGS. COMPLETE AND RETURN THE RELEASE FORM "TRANSFER OF FILES ON ELECTRONIC MEDIA" IN ORDER TO RECEIVE AND USE THE ELECTRONIC FILES. (SAMPLE OF THE FORM CAN BE PROVIDED ON REQUEST).
- 5.5. BEFORE SUBSTANTIAL PERFORMANCE OF THE CONTRACT, COMPLY WITH THE FOLLOWING:
- 4.5.1. PROVIDE A USB CONTAINING ALL UPDATED RECORD DRAWING INFORMATION AS SPECIFIED HEREIN.
- 4.5.2. PROVIDE TWO (2) SETS OF EQUIPMENT DATA SHEETS AND/OR MANUFACTURER'S MAINTENANCE MANUALS COVERING EACH SYSTEM AND ITS COMPONENTS IN ACCORDANCE WITH REQUIREMENTS OF EACH APPROPRIATE SECTION. THESE SETS ARE TO BE IN GOOD QUALITY BINDERS EQUAL TO VYN-L-LINE #VL-3096-B 2", (51mm) RINGS. THE BINDER IS TO BE DIVIDED INTO SECTIONS WITH TABS CLEARLY MARKED INDICATING THE SYSTEMS, ETC.

6. EQUIPMENT AND MATERIAL

6.1. ALL EQUIPMENT AND MATERIAL, UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL MATERIAL AND EQUIPMENT SHALL BEAR ULC. OR CSA LABELS.

. ACCESSIBILITY

7.1. INSTALL ALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION

. RESPONSIBILITY

8.1. BE RESPONSIBLE FOR WORK UNTIL COMPLETION AND FINAL ACCEPTANCE, FOR REPLACING ANY ITEM THAT MAY BE DEFECTIVE, DAMAGED, LOST OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY TO THE COMPLETION OF THE PROJECT.

9. CONDUIT, AND WIRING

- 9.1. USE EMT CONDUIT FOR ALL WIRING UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL BE INSTALLED PARALLEL TO BUILDING LINES AND SECURELY FASTENED.
- 9.2. UNLESS NOTED OTHERWISE, CONDUITS SHALL BE CONCEALED ABOVE FINISHED CEILING, OR IN WALL PARTITIONS. EMT COMPLETE WITH STEEL SET SCREW TYPE CONNECTORS AND COUPLINGS.
- 9.3. MINIMUM SIZE TRADE CONDUIT IS 16MM. MINIMUM SIZE TRADE CONDUIT FOR COMMUNICATIONS IS 27MM. MINIMUM SIZE TRADE CONDUIT FOR SECURITY AND CCTV IS 21MM.
- 9.4. DO NOT RUN CONDUITS IN FIRE RATED CEILING SPACES.
- 9.5. FLEXIBLE CONDUIT SUITABLE FOR THE SPECIFIC APPLICATION AS PER OESC, AND NOT EXCEEDING 5 FEET IN LENGTH, SHALL BE USED FOR FINAL SHORT CONNECTIONS TO MOTORS, TRANSFORMERS AND SIMILAR EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION. FIXTURES AND SWITCH LEGS IN WOODEN, BLOCK OR STEEL PARTITIONS, SHALL NO EXCEED 10 FEET IN LENGTH
- 9.6. CONDUIT AND CABLES SHALL BE INSTALLED TO AVOID PROXIMITY TO WATER AND HEATING PIPES, EXCEPT WHERE CROSSINGS ARE UNAVOIDABLE.
- 9.7. CONDUIT AND CABLES MUST NOT PASS THROUGH STRUCTURAL STEEL MEMBERS, CONCRETE BEAMS OR COLUMNS, WITHOUT PERMISSION FROM THE ENGINEER.

- 9.8. SURFACE RACEWAY SYSTEM WITH WIRING LAID IN SHALL BE ACCEPTABLE BUT KEPT TO A MINIMUM IN AREAS WHERE EMT CONDUIT CAN NOT BE CONCEALED. TWO PIECE STEEL ASSEMBLY MANUFACTURED AS LAY-IN TYPE RACEWAY C/W TEES, ELBOWS AND HANGER FITTING AND SUPPORTS REQUIRED FOR A COMPLETE SYSTEM - WIREMOLD OR APPROVED EQUAL.
- 9.9. ALL CONDUCTORS, UNLESS NOTED OTHERWISE. SHALL BE INSTALLED IN CONDUIT.
- 9.10. ALL CONDUCTORS SHALL BE COPPER, RW90 XLPE #12 AWG MINIMUM UNLESS NOTED OTHERWISE. WHERE THE DISTANCE FROM THE PANELBOARD TO THE LAST OUTLET EXCEEDS 50', #10 AWG CONDUCTOR MUST BE USED FOR THE FULL LENGTH OF THE CIRCUIT
- 9.11. THE USE OF FLEXIBLE METALLIC-SHEATHED AC90 (BX) CABLES AS BRANCH WIRING SHALL BE LIMITED TO DRYWALL WALL DROPS TO SWITCHES, RECEPTACLES AND POWER OUTLETS THROUGH WALL CAVITIES OR TO WIRING FROM JUNCTION BOXES IN DROP CEILING TO LIGHTING FIXTURES AND BETWEEN LIGHTING FIXTURES. SUPPORT BX DROPS INDEPENDENTLY. DO NOT LAY BX CABLES ON SUSPENDED CEILING. MAXIMUM RUN DISTANCE SHALL BE 10 FEET.

10. COLOUR CODING

- 10.1. PROVIDE COLOUR CODING MARKINGS USING MATERIALS SUITABLE FOR THE OPERATING ENVIRONMENT OR EQUIPMENT, CONDUIT AND CABLES.
- 10.2. COLOUR CODING, TO CONFORM TO CANADIAN AND ONTARIO ELECTRICAL CODES, SHALL BE:
 - PHASE A. RED PHASE B: BLACK PHASE C: BLUE GROUND - GREEN
- NEUTRAL:- WHITE 10.1. PROVIDE COLOUR CODED WIRES FOR FIRE ALARM CABLES, MATCH
- 10.2. PROVIDE COLOUR CODED WIRES FOR COMMUNICATION CABLES, MATCH EXISTING

11. GROUNDING AND BONDING

EXISTING.

- 11.1. THE GROUNDING AND BONDING OF THE ELECTRICAL SYSTEM IN ALL CASED SHALL CONFORM TO THE INSPECTION AUTHORITY HAVING JURISDICTION.
- 11.2. ALL FLEXIBLE CONDUIT SHALL BE PROPERLY BONDED.
- 11.3. ALL CONDUIT SHALL INCLUDE A BOND WIRE, SIZED TO OESC.

- 12.1. ALL LIGHTING FIXTURES, RECEPTACLES AND OTHER WIRING DEVICES FOR ANY CONDUIT SYSTEM SHOWN ON THE DRAWINGS IN WALLS, CEILINGS OR FLOOR, SHALL BE PROVIDED WITH AN OUTLET BOX AS SPECIFIED BELOW.
- 12.2. ALL OUTLET BOXES SHALL BE MANUFACTURED OF GAUGE GALVANIZED STEEL UNLESS SPECIFIED OTHERWISE AND SHALL BE SIZED FOR THE NUMBER OF WIRES ENTERING A BOX AS REQUIRED BY THE LOCAL
- 12.3. CEILING BOXES SHALL BE FOUR INCHES OCTAGON OR SQUARE COMPLETE WITH FITTINGS WHERE REQUIRED TO SUPPORT FIXTURES.
- 12.5. PULL BOXES SHALL BE INSTALLED IN CONDUIT RUNS WHERE REQUIRED TO
- FACILITATE THE PULLING IN OF CABLE. 12.6. WHERE EMPTY CONDUIT ONLY IS TO BE INSTALLED FOR COMMUNICATIONS PATHWAYS, PULL BOXES SHALL BE INSTALLED ON STRAIGHT SECTIONS OF
- BE PULLED THROUGH MORE THAN TWO 90 DEGREE BENDS. 12.7. JUNCTION AND PULL BOXES SHALL BE LOCATED SO AS TO BE ACCESSIBLE AT ALL TIMES. WHEN INSTALLED IN CEILING SPACE, LOCKABLE ACCESS HATCHES MUST BE PROVIDED UNLESS CEILING TILE IS TO BE OF THE LAY-IN OR SNAP-IN STYLE.

CONDUIT RUNS AND AT INTERVALS SUCH THAT NO CABLE WILL HAVE TO

13. WIRING DEVICES

- 13.1. SWITCHES: RATED 125VAC, 20 AMPERES AND LOW VOLTAGE IVORY TOGGLE 17. PANELBOARDS TYPE COMPATIBLE WITH EXISTING.
- 13.2. INSTALL SINGLE THROW SWITCHES WITH HANDLE IN "UP" POSITION WHEN SWITCH CLOSED (ON).
- 13.3. INSTALL SWITCHES IN GANG-TYPE OUTLET BOX AT 1100mm ABOVE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
- 13.4. 125V SWITCHES AS SHOWN SHALL BE LOW VOLTAGE COMPLETE WITH TRANSFORMERS AND CONTROL RELAYS LOCATED CONCEALED IN CEILING
- 13.6. INSTALL RECEPTACLES IN GANG-TYPE OUTLET BOX AT 450mm ABOVE

13.5. RECEPTACLES: 3-WIRE, U-GROUND TYPE GENERAL PURPOSE, HEAVY DUTY,

FINISHED FLOOR UNLESS NOTED OTHERWISE. 13.7. ONE PIECE GANG PLATES SHALL BE USED IN LOCATIONS WHERE MORE THAN ON DEVICES IS TO BE MOUNTED.

13.8. DO NOT INSTALL OUTLETS BACK-TO-BACK, STAGGER OUTLETS IN THE

STUD CAVITIES TO REDUCE POSSIBILITY OF SOUND TRANSMISSION. 13.9. NEW RECEPTACLES SHALL MATCH EXISTING IN COLOUR.

13.10. COVERPLATES:

- 13.10.1. PROVIDE No.301 STAINLESS STEEL, BRUSHED COVERPLATES C/W PROTECTIVE PLASTIC FILM UNTIL PAINTING AND OTHER WORK IS FINISHED FOR ALL WIRING DEVICES MOUNTED IN A FLUSH MOUNTED OUTLET BOX. PROVIDE COMMON COVERPLATE WHEN WIRING DEVICES ARE GROUPED TOGETHER.
- 13.10.2. PROVIDE FITTING SHEET METAL (CAST) COVERPALTES FOR WIRING DEVICES MOUNTED IN SURFACE FS OR FD TYPE CONDUIT BOXES.
- 13.10.3. DO NOT USE COVERPLATES MEANT FOR FLUSH OUTLET BOXES ON SURFACE MOUNTED BOXES.
- 13.11. ACCEPTABLE MANUFACTURERS ARE:
- 13.11.1. HUBBELL
- 13.11.2. LEVITON 13.11.3. LEGRAND
- 13.11.4. COOPER 13.11.5. OR OTHER APPROVED EQUALS

14. DISCONNECT SWITCHES

- 14.1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY WITH OPERATING HANDLE INTERLOCKED WITH THE SWITCH COVER.
- 14.2. DISCONNECT SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK, 600 VOLT WITH ARC QUENCHER AND SHALL BE HORSEPOWER RATED. PROVISION SHALL BE MADE FOR PADLOCKING IN EITHER THE "ON" OR "OFF" POSITION WITH UP TO 3 PADLOCKS.

- 14.3. DISCONNECT SWITCH BLADES SHALL BE FULLY VISIBLE WHEN IN
- 14.4. PREVENT DOOR FROM BEING OPENED WHEN SWITCH IS CLOSED. PROVISION SHALL BE MADE TO DEFEAT THIS INTERLOCK WITH A SCREWDRIVER.

19.2.1. PROVIDE VERIFICATION THAT THE SPD COMPLIES WITH THE REQUIRED

LABORATORIES (UL) OR OTHER NATIONALLY RECOGNIZED TESTING

LABORATORY (NRTL). COMPLIANCE MAY BE IN THE FORM OF A FILE

INFORMATION AT A MINIMUM: MODEL NUMBER, SPD TYPE, SYSTEM

ELECTRICAL ASSEMBLY), ELECTRICAL/MECHANICAL DRAWINGS SHOWING

UNIT DIMENSIONS, WEIGHTS, INSTALLATION INSTRUCTION DETAILS, AND

VOLTAGE, PHASES, MODES OF PROTECTION, VOLTAGE PROTECTION

NUMBER THAT CAN BE VERIFIED ON UL'S WEBSITE OR ON ANY OTHER

NRTL'S WEBSITE. AS LONG AS THE WEBSITE CONTAINS THE FOLLOWING

ANSI/UL 1449 LATEST EDITION LISTING BY UNDERWRITERS

RATING (VPR), AND NOMINAL DISCHARGE CURRENT (IN).

19.3. WHERE APPLICABLE THE FOLLOWING ADDITIONAL INFORMATION SHALL BE

19.4. OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED WITH EACH

19.5. MANUFACTURERS: EATON YALE COMPANY, ERICO (CRITEC) INTERNATIONAL,

ACCEPTANCE OF THEIR PRODUCTS THAT DO NOT MEET THE SPECIFIED

NOT RELIEVED FROM MEETING THESE SPECIFICATIONS IN THEIR ENTIRETY

RATINGS, FEATURES, AND FUNCTIONS. MANUFACTURERS LISTED ABOVE ARE

19.6. THE LISTING OF SPECIFIC MANUFACTURERS ABOVE DOES NOT IMPLY

20.2. INSTALLATION OF ALL LIGHTING FIXTURES SHALL COMPLY WITH THE

CLEAN AND COMPLETE WITH ALL ACCESSORIES.

20.4. INDEPENDENT SUPPORT OF FIXTURES IN T-BAR CEILING.

MANUFACTURER INSTALLATION RECOMMENDATIONS AND THE OESC

20.3. AT THE COMPLETION OF THE WORK. ALL LIGHTING FIXTURES SHALL BE

21.1. ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH THE EXISTING

INFORMATION FROM THE SYSTEM MAINTENANCE COMPANY. TEST AND

21.2. UPGRADE, RE-PROGRAM EXISTING CONTROL PANEL AND ALL REMOTE

DEVICES AND NEW INITIATING ZONES TO THE EXISTING.

21.4.1. AUDIBLE SIGNAL APPLIANCES STANDARD ULC-S525

21.4.3. SYSTEM INSTALLATION STANDARD CAN/ULC-S524

21.4.4. SYSTEM VERIFICATION STANDARD CAN/ULC-S537

21.4.2. SMOKE DETECTORS STANDARD ULC-S529

SIMPLEX 4100ES FIRE ALARM CONTROL UNIT

COLOR ES TOUCH SCREEN DISPLAY

INTERNAL AND EXTERNAL CARD ADDRESSES

ACCESS

FIRE ALARM SYSTEM CONTROL. CONTRACTOR SHALL OBTAIN ADDITIONAL

VERIFY SYSTEM UPON COMPLETION AND SUBMIT REPORT TO CONSULTANTS.

ANNUNCIATOR PANELS AS REQUIRED TO ACCOMMODATE NEW DEVICES AND

INITIATING ZONES AS INDICATED ON PLANS FOR THE ADDITION OF NEW

21.3. UNLESS INDICATED OTHERWISE ON PLANS, WIRE NEW DEVICES TO EXISTING

LOCAL FIRE ALARM INITIATING ZONE AND NEW SPEAKERS TO EXISTING

CAPACITY FOR UP TO 1000 ADDRESSABLE IDNET POINTS, UP TO 127 VESDA

CPU ASSEMBLY INCLUDES DEDICATED COMPACT FLASH MEMORY FOR ON-SITE

8 A POWER SUPPLY WITH UP TO 2 A OF AUXILIARY POWER AND BATTERY

SYSTEM INFORMATION STORAGE AND CONVENIENT ETHERNET SERVICE PORT

CAPACITY FOR UP TO 110 AH BATTERIES (UL) OR UP TO 50 AH BATTERIES

4100-0650 BATTERY SHELF IN TWO-BAY CONTROL CABINET

(ULC), 33 AH MAX IN SINGLE BAY CONTROL CABINET 50 AH MAXIMUM WITH

FOUR ONBOARD CLASS A OR B, 3 A NOTIFICATION APPLIANCE CIRCUITS

IDNET ADDRESSABLE DEVICE COMMUNICATIONS THAT SUPPORT TRUEALARM

DEVICES WITH AN ELECTRICALLY ISOLATED OUTPUT CHANNEL ALLOWING USE WITH

EITHER SHIELDED OR UNSHIELDED, TWISTED OR UNTWISTED SINGLE PAIR WIRING;

48 LED PANEL MOUNT ANNUNCIATION PROVIDES 40 RED AND 8 YELLOW

.1 PERFORM SYSTEM TESTING AND VERIFICATION AND SUBMIT

22.1. REMOVE ALL DEBRIS AND WASTE MATERIALS FROM THE SITE CAUSED BY

THIS CONTRACTOR IN THE PERFORMANCE OF THE ELECTRICAL WORK.

22.2. ALL EQUIPMENT SHALL BE CLEANED AND VACUUMED OUT PRIOR TO FINAL

REMOTE ANNUNCIATOR MODULE SUPPORT WITH REMOTE UNIT INTERFACE (RUI)

ANALOG SENSORS AND IDNET COMMUNICATIONS MONITORING AND CONTROL

AND PROVIDING DUAL SHORT CIRCUIT ISOLATING OUTPUT LOOPS

COMMUNICATIONS PORT, EITHER CLASS B OR CLASS A OPERATION

PLUGGABLE LEDS (SELECT MODELS)

21.1. TESTING AND VERIFICATION

22. CLEANING

REPORT TO CONSULTANTS.

ACCEPTANCE OF THE WORK.

AND ONE PROGRAMMABLE AUXILIARY RELAY OUTPUT RATED FOR 2 A AT 32 VDC

AIR ASPIRATION POINTS, UP TO 2000 POINTS OF ANNUNCIATION, AND UP TO 20

19.2.2. FOR SIDEMOUNT APPLICATIONS (SPD MOUNTED EXTERNAL TO

WIRING CONFIGURATION.

SUBMITTED TO THE ENGINEER:

SCHNEIDER ELECTRIC CANADA, MERSEN

20.1. REFER TO LIGHTING FIXTURE SCHEDULE.

19.3.1. DESCRIPTIVE BULLETINS

19.3.2. PRODUCT SHEETS

21. FIRE ALARM SYSTEM

LOCAL SIGNAL CIRCUITS.

21.4. CODES AND STANDARDS

- 14.5. DISCONNECT SWITCHES SHALL BE SPRINKLER PROOF IN INDOOR SPRINKLERED AREAS, NEMA 3R IN WET LOCATIONS.
- 14.6. A DISCONNECT SWITCH SHALL BE INSTALLED AHEAD OF ALL MOTORS STARTERS AND ELECTRICAL DEVICES WHERE REQUIRED TO MEET CODE REGULATIONS, WHERE THE DEVICE IS INSTALLED UNDER THE ELECTRICAL DIVISION OR ANY OTHER DIVISION.
- 14.7. DISCONNECT ACCEPTABLE MANUFACTURERS ARE:
- 14.7.1. SCHNEIDER

14.7.2. EATON

14.7.3. SIEMENS

15. WIRING FOR MECHANICAL EQUIPMENT

- 15.1. SUPPLY AND INSTALL ALL STARTERS, DISCONNECTS, RELAYS, WIRING, ETC., TO ACCOMMODATE THE COMPLETE MECHANICAL SYSTEM, UNLESS NOTED
- 15.2. OTHER DIVISIONS SUPPLYING MOTOR-DRIVEN EQUIPMENT SHALL SUPPLY AND INSTALL ALL NECESSARY MOTORS WITH SUCH EQUIPMENT. ALL INTERNAL CONTROL WIRING IN SUCH EQUIPMENT SHALL BE FACTORY INSTALLED, OR SHALL BE SUPPLIED AND INSTALLED BY THOSE SUPPLYING
- 15.3. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS DURING TENDERING 20. LIGHTING AND CONSTRUCTION TO ENSURE ENTIRE MECHANICAL EQUIPMENT WIRING SCOPE OF WORK IS UNDERSTOOD.
- 15.4. THIS DIVISION IS RESPONSIBLE FOR THE FOLLOWING:
- 15.4.1. SUPPLY AND INSTALLATION OF ALL STARTERS, DISCONNECT SWITCHES.PUSHBUTTON STATIONS. SPLITTER TROUGHS. JUNCTION BOXES AND TIME SWITCHES, ETC., AS NOTED ON DRAWING.
- 15.4.2. INSTALLATION AND WIRING OF ALL SEPARATELY MOUNTED THERMOSTATS, MOTOR CONTROLLERS AND CONTROL UNITS WHICH ARE SUPPLIED BY MECHANICAL.
- 15.4.3. SUPPLY AND INSTALLATION OF ALL POWER WIRING AND CONDUITS FROM THE DISTRIBUTION PANEL THROUGH THE STARTER AND
- DISCONNECT SWITCH ONTO THE MOTOR (OR EQUIPMENT). 15.4.4. SUPPLY AND INSTALLATION OF ALL CONTROL WIRING FROM REMOTE SWITCHES OR PUSHBUTTON STATIONS TO CONTROL STARTERS.
- 15.4.5. SUPPLY AND INSTALLATION OF ALL WIRING TO PROVIDE INTERLOCKING BETWEEN STARTERS COMPLETE WITH NECESSARY DOUBLE VOLTAGE
- 15.4.6. SUPPLY AND INSTALLATION OF TRANSIENT (SURGE) SUPPRESSERS ON HOLDING COILS OF MAGNETIC STARTERS, RELAYS, ETC., WHERE INDICATED FOR PROTECTION TO SOLID STATE EQUIPMENT THAT IS SENSITIVE TO SURGES, SPIKES, ETC

16. MOTOR STARTERS

- 16.1. MANUAL STARTER SHALL HAVE QUICK-MAKE, QUICK-BREAK, SWITCHING MECHANICAL COMPLETE WITH OVERLOAD HEATERS, MANUAL RESET, TRIP INDICATING HANDLE, AND LOCKING TAB TO PERMIT PADLOCKING IN "ON" OR "OFF" POSITION.
- 16.2. MAGNETIC AND COMBINATION MOTOR STARTERS TO BE MINIMUM SIZE TYPE, 21.5. PRODUCTS AND RATING TO SUIT MOTOR LOAD. C/W CONTROL TRANSFORMER CONTACTOR SOLENOID OPERATED, MOTOR OVERLOAD PROTECTIVE DEVICE IN EACH PHASE, MANUALLY RESET, POWER AND CONTROL TERMINALS, PUSHBUTTONS AND SELECTOR SWITCHES, TWO N/O AND TWO N/C AUXILIARY CONTACTS, PROVISION FOR PREVENTING SWITCHING TO "ON" POSITION WHILE ENCLOSURE DOOR IS OPEN.

17.1. PANELBOARDS: TO CSA C22.2, NO. 29.

IDENTIFICATION AS TO CIRCUIT NUMBER.

- 17.2. PANELBOARDS ARE TO BE THE PRODUCT OF ONE (1) MANUFACTURER. 17.3. PANELS SHALL BE SPRINKLER PROOF IN INDOOR SPRINKLERED AREAS, NEMA 3R IN WET LOCATIONS. ALL ENCLOSURES IN PUBLIC SPACES SHALL
- 17.4. PANELBOARDS: BUS AND BREAKERS RATED FOR MINIMUM 14,000A (SYMMETRICAL) INTERRUPTING CAPACITY AT SYSTEM VOLTAGE OR AS INDICATED ON THE DRAWINGS.

BE COMPLETE WITH ANTI-TAMPER LOCKABLE DOORS.

17.5. SEQUENCE PHASE BUSSING WITH ODD NUMBERED BREAKERS ON LEFT AND EVEN ON RIGHT, WITH EACH BREAKER IDENTIFIED BY PERMANENT NUMBER

17.6. PANELBOARDS:

- 17.6.1. COPPER MAINS, NUMBER OF CIRCUITS, AND NUMBER AND SIZE OF BRANCH CIRCUIT BREAKERS AS INDICATED.
- 17.6.2. TWO (2) KEYS FOR EACH PANELBOARD AND KEY PANELBOARDS ALIKE. 17.6.3. COPPER BUS WITH FULL SIZE NEUTRAL.
- 17.6.4. MAINS FOR BOLT-ON BREAKERS. 17.6.5. FINISH TRIM AND DOOR BAKED GREY ENAMEL. PAINT TUB SAME AS
- 17.6.6. COMPLETE CIRCUIT DIRECTORY WITH TYPEWRITTEN LEGEND SHOWING LOCATION AND LOAD OF EACH CIRCUIT UNDER PLASTIC COVER.
- 17.7. MINIMUM PANEL SIZE SHALL BE 42 CIRCUITS. ALL PANELS SHALL HAVE MINIMUM OF 25% SPACE CAPACITY, AND 10% SPARE BRANCH BREAKERS.
- 17.8. ALL PANELS SHALL BE PROVIDED WITH EXTERNALLY MOUNTED SURGE
- 17.9. MANUFACTURERS: EATON, SCHNEIDER, SIEMENS.

18. REVISIONS TO EXISTING PANEL BOARDS

18.1. ALL EXISTING PANEL BOARDS ON DRAWINGS TO REMAIN AND BE REUSED TO FEED NEW DEVICES. FOR IDENTIFIED PANELBOARDS WHERE APPLICABLE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL NEW BRANCH AND FEEDER BREAKERS, TYPE, QUANTITY AND CAPACITY AS IDENTIFIED ON DRAWING AND INSTALL IN EXISTING PANEL. ON EACH PANEL BOARD MODIFIED PROVIDE REVISED AND UPDATED PANEL BOARD SCHEDULE TO REFLECT NEW LOADS. RE-USE ALL SPARE BREAKERS MADE REDUNDANT IN DEMOLITION PHASE AND UPDATE PANEL BOARD SCHEDULES TO REFLECT ALL NEW AND REVISED CIRCUITS.

19. SURGE PROTECTION DEVICE

PROTECTION DEVICES.

- 19.1. SPD UNITS AND ALL COMPONENTS SHALL BE DESIGNED, MANUFACTURED, AND TESTED IN ACCORDANCE WITH THE LATEST APPLICABLE UL STANDARD (ANSI/UL 1449).
- 19.2. SUBMITTALS FOR REVIEW/APPROVAL. THE FOLLOWING INFORMATION SHALL BE SUBMITTED TO THE ENGINEER:

ELECTRICAL GENERAL **DEMOLITION NOTES**

- THE ELECTRICAL CONTRACTOR SHALL, AS PART OF HIS WORK, PERFORM ALL RELATED DEMOLITION, MODIFICATIONS, RELOCATION OF ELECTRICAL DISTRIBUTION AND OTHER EQUIPMENT AND RELATED WORK, INCLUDING NEW WORK NECESSARY TO COMPLETE THE PROJECT
- THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BIDS. REFER TO EXISTING DRAWINGS AND VISIT THE SITE TO DETERMINE THE EXTENT OF THE DEMOLITION AND NEW WORK
- THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL TECHNICAL DETAILS OF EQUIPMENT TO BE REMOVED. WHERE THERE IS A DISCREPANCY WITH THE TENDER DOCUMENTS, CONTRACTOR SHALL ENGAGE CONSULTANTS FOR DIRECTIONS. ELECTRICAL CONTRACTOR SHALL MAKE A LIST OF ALL EQUIPMENT TO BE REMOVED. THIS LIST SHALL BE WITH ALL FOLLOWING INFORMATION. MAKE/MODEL#
- ** MANUFACTURER ** TECHNICAL DETAILS ** LOCATION THIS LIST SHALL BE SUBMITTED TO THE OWNER FO
- THE FLECTRICAL CONTRACTOR SHALL NOT DISCONNECT EQUIPMENT AND ELECTRICAL CIRCUITS IN THE RENOVATION AREA OR ANY PART OF THE BUILDING WITHOUT PRIOR NOTIFICATION AND PERMISSION FROM THE OWNER. EXTREME
- ITEMS REMOVED AND NOT SCHEDULED TO BE RELOCATED SHALL BE OFFERED TO THE OWNER FOR THEIR USE AND IF NOT ACCEPTED BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF THE MATERIAL FROM THE SITE IN ACCORDANCE WITH LOCAL REGULATIONS, THE ELECTRICAL CONTRACTOR SHALL DELIVER ITEMS ACCEPTED BY THE OWNER TO THE DESIGNATED LOCATIONS AS DIRECTED BY THE OWNER.
- 6. IN ALL CASES WHERE WORK IS REMOVED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR TO SUSTAIN OPERATION OF ALL PARTS F THE SYSTEMS CONNECTING TO OR FROM THE PART REMOVED, COMPLETING ALL WORK IN STRICT ACCORDANCE WITH
- ALL WIRING, CABLES AND FEEDERS INCLUDING BOTH REMOVED BACK TO THEIR SOURCES. UNLESS NOTED OTHERWISE, CONDUITS AND/OR WIRING SHALL, WHERE NECESSARY, BE RE-CIRCUIT AROUND THE REMOVED PART,
- 8. ALL EXISTING CONDUITS WHICH HAVE BEEN ABANDONED OR
- PROVIDE BLANK METAL COVER PLATES FOR ALL JUNCTION/DEVICE BOXES NO LONGER IN USE THAT ARE EMBEDDED IN FLOOR SLAB OR MASONRY WALLS, PROVIDE PLUGS FOR ALL PANELS WHERE CONDUIT HAS BEEN REMOVED.
- 10. WHERE REQUIRED COORDINATE WITH THE CONSULTANTS/OWNER FOR EXISTING PARTITIONS TO BE REMOVED TO FACILITATE WORK. DISCONNECT EXISTING BRANCH CIRCUITS SERVICING DEVICES IN PARTITIONS TO BE REMOVED. MAINTAIN CONTINUIT OF CIRCUITS SERVICING EXISTING DEVICES IN OTHER AREAS TO
- CONTROL WHEN THE FIXTURE TO BE REMOVED IS SERVED BY A CIRCUIT, THAT SUPPLIES FIXTURES IN OTHER, AREAS THAT ARE TO REMAIN, THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING FIXTURES.

12. POWER RECEPTACLES: REMOVE RECEPTACLES. WHEN THE

RECEPTACLE TO BE REMOVED IS SERVED BY A CIRCUIT THAT

EXISTING FIRE ALARM SYSTEM SPECIFICALLY AS IT RELATES TO

ADJACENT AREAS WHICH ARE NOT INCLUDED IN THE SCOPE OF

- 13. FIRE ALARM SYSTEM: COORDINATE AND CONSULT WITH CURRENT F/A SYSTEM SERVICE CONTRACTOR OR THEIR QUALIFIED REPRESENTATIVE FOR ALL FIRE ALARM DEMOLITION
- 5. FOR EXISTING DEVICES/CIRCUITRY THAT ARE INDICATED TO BE REMOVED BACK TO POINT OF ORIGIN-THESE ITEMS ARE TO BE REMOVED BACK TO POINT OF ORIGIN UNLESS THERE WILL BI EXISTING DEVICES ON THE SAME CIRCUIT THAT ARE LOCATED OUTSIDE AREA OF WORK THAT ARE TO REMAIN IN THAT CASE, REMOVE THE EXISTING DEVICES/CIRCUITRY IN AREA OF WORK BACK TO THESE EXISTING DEVICES TO REMAIN. ALL DEVICES/CIRCUITRY IN SURROUNDING AREAS THAT ARE TO REMAIN ARE TO BE KEPT ENERGIZED, FOR REMOVAL OF CONDUIT AND WIRING OUTSIDE OF AREA OF WORK COORDINATE AND SCHEDULE WITH OWNER PRIOR TO PERFORMING WORK.

GENERAL NOTES

CEILING SPACE.

- A. PRIOR TO BIDDING, ELECTRICAL CONTRACTOR SHALL VISIT SITE AND BE FAMILIAR WITH ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO EQUIPMENT LOCATIONS AND OTHER POSSIBLE INSTALLATION DIFFICULTIES. PAY AND OBTAIN ANY PERMITS REQUIRED INCLUDING ESA
- B. ALL CONDUIT ROUTES SHOWN ON DRAWINGS ARE APPROXIMATE AND NOT FINAL. CONTRACTOR SHALL VERIFY ROUTES AND DO A WALKTHROUGH BEFORE BID. CONTRACTOR SHALL ACCOUNT FOR POSSIBLE DAMAGE AND REPAIR TO EXISTING CEILING AND LIGHT FIXTURES. ALL MAIN CONDUIT RUNS SHALL BE IN CORRIDOR
- C. EXTEND/PROVIDE NEW WIRING/CONDUIT FOR ALL DEVICES THAT ARE D. ALL NEW RECEPTACLES IN THE SCHOOL SHALL BE TAMPER
- E. REMOVE AND RE-INSTATE ALL REQUIRED T-BAR OR DRY TYPE CEILINGS TO FACILITATE ELECTRICAL INSTALLATIONS. ANY DAMAGES TO T-BAR SHALL BE RE-INSTATED. UNLESS OTHERWISE NOTED WITH A CIRCUIT NUMBER, RE-USE EXISTING CIRCUIT BREAKERS THAT HAD BECOME SPARE FROM THE DEMOLITION TO FEED NEW RECEPTACLES. MAXIMUM 6 DUPLEX RECEPTACLES PER CIRCUIT UNLESS OTHERWISE NOTED.
- H. UNLESS NOTED OTHERWISE, EVERY CONDUIT CONTAINING 120V OR GREATER WIRING SHALL CONTAIN A SEPARATE INSULATED GROUND FOR EACH PANEL BOARD, PROVIDE AN UPDATED, TYPE WRITTEN DIRECTORY INDICATING ROOM AND ROOM NUMBER, EQUIPMENT

G. ALL I.T. CABLES SHALL BE PLENUM RATED.

- IDENTIFICATIONS, SPARE OR SPACE AS APPLICABLE. DIRECTORY SHALL BE MOUNTED INSIDE PANEL BOARD. ALL EMPTY CONDUITS SHALL CONTAIN PULL WIRES K. EQUIPMENT OR DEVICES THAT ARE LOCATED ABOVE OPENINGS SUCH AS DOORS, LOUVERS, ETC., SHALL BE CENTERED ABOVE OPENING. THIS NOTE REFERS TO, BUT IS NOT LIMITED TO EXIT LIGHTS, EXTERIOR LIGHT FIXTURES, ETC.
- CONCEAL ALL CONDUIT IN FINISHED SPACES, IN UNFINISHED SPACES, ALL OUTLET BOXES SHALL BE RECESSED, AND ALL CONDUIT SHALL BE CONCEALED TO THE HIGHEST EXTENT POSSIBLE M. PROVIDE CONDUIT BUSHINGS FOR ALL CONDUIT NIPPLES, SLEEVES, AND STUBS FROM WALL BOXES TO ABOVE CEILING. N. FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR ALL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT TRANSFORMERS AND LIGHT FIXTURES, THE MAXIMUM ALLOWABLE LENGTH IS 3' FOR MOTORS /TRANSFORMERS AND 4' FOR LIGHT FIXTURE WHIPS. PVC JACKETED FLEX SHALL BE USED IN OUTDOOR AND POTENTIALLY WET LOCATION AREAS. THE USE OF FLEXIBLE
- ** USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120-VOLT,

LONG RUNS, HIGH AMBIENT TEMPERATURES AND MULTIPLE

. MINIMUM CONDUCTOR SIZE SHALL BE INCREASED AS REQUIRED FOR

CONDUCTORS IN A RACEWAY, FOR VOLTAGE DROP, INCREASE THE

FROM CIRCUIT BREAKER TO LAST DEVICES OR LIGHT FIXTURE IN

** USE #10 AWG CONDUCTORS FOR 20 AMPERE, 277-VOLT, BRANCH

. CONDUIT INSTALLATION SHALL BE PARALLEL TO BUILDING LINES. NO

MINIMUM CONDUCTOR SIZES AS FOLLOWS (FOR ENTIRE CIRCUIT

** USE #8 AWG CONDUCTORS FOR 20 AMPERE, 120-VOLT, BRANCH CIRCUITS LONGER THAN 120 FEET

BRANCH CIRCUITS LONGER THAN 75 FEET.

- CIRCUITS LONGER THAN 130 FEET P. THE USE OF FLEXIBLE NONMETALLIC CONDUIT IS PROHIBITED UNLESS PRIOR APPROVAL IS OBTAINED.
 - BRANCH CIRCUIT CONDUIT WILL BE INSTALLED UNDER ON GRAD/FLOOR SLABS. JUNCTION BOXES IN I INACCESSIBLE SPACES WILL BE PROHIBITED, UNLESS SPECIFICALLY INDICATED OTHERWISE.

THE CONTRACTOR MUST FIELD VERIFY ALI

THESE DRAWINGS ARE NOT TO BE SCALED

DIMENSIONS AND MUST CONFIRM & CORRELATE ALL DETAILS WITHIN THE FULL DRAWING PACKAGE BEING RESPONSIBLE FOR SAME THROUGHOUT CONSTRUCTION, REPORTING ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING THE ALL DRAWINGS, DETAILS & SPECIFICATIONS REPRESENTED IN THE DRAWINGS ARE TO BE USED FOR CONSTRUCTION ONLY WHEN

ISSUED BY THE ARCHITECT AND NOTED

ACCORDINGLY IN THE "ISSUE/REVISIONS"

3 - ISSUED FOR TENDER - 2024-01-31

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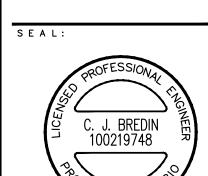
PROJECT:

Internationa

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TRUE NORTH:

DRAWING TITLE: **ELECTRICAL SPECIFICATIONS** AND DEMOLITION

SCALE: AS NOTED

DRAWN:

DECEMBER 2023

PROJECT #: ALL-23014405-A0

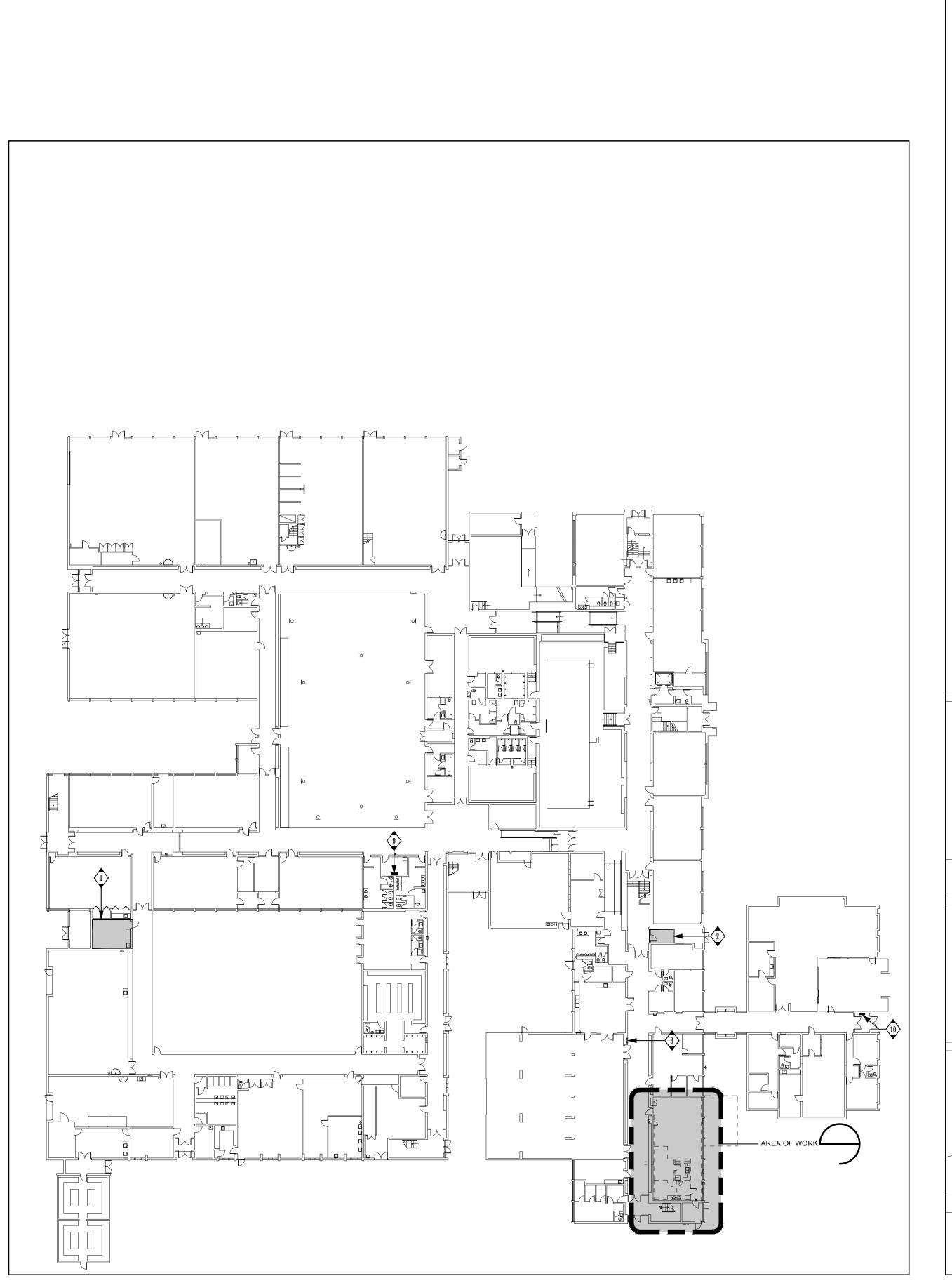
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RECORD PURPOSES

CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO THE SURROUNDING AREA.

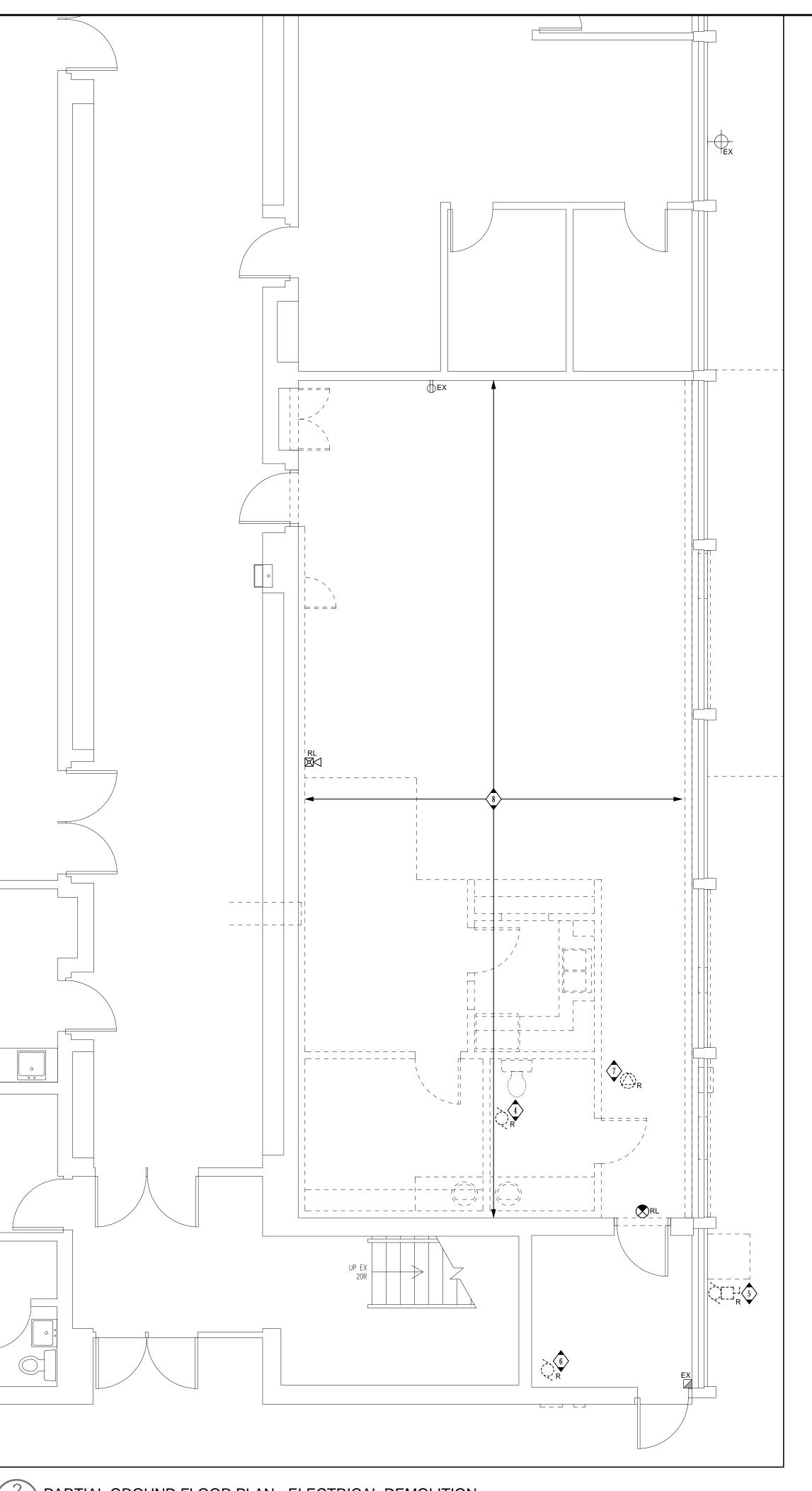
- APPLICABLE CODES.
- CONNECTED TO DEVICES AND EQUIPMENT TO BE DEMOLISHED AND EXISTING THAT WERE ABANDONED IN PLACE SHALL BE KEEPING OCCUPIED PARTS OF THE BUILDING SYSTEM IN FULL
- ARE UNUSED SHALL BE REMOVED.
- COVER PLATES SHALL BE PAINTED TO MATCH EXISTING
- 11. LIGHTING FIXTURES: REMOVE LIGHTING FIXTURES AND SWITCH
- SUPPLIES RECEPTACLES IN OTHER AREAS, THAT ARE TO REMAIN, THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING RECEPTACLES.
- THIS PROJECT. 14. ELECTRICAL CONTRACTOR SHALL PROVIDE UPDATED TYPE WRITTEN PANEL DIRECTORIES FOR ALL PANELS AFFECTED BY THE DEMOLITION AND/OR NEW WORK. CIRCUIT BREAKERS NOT USED FOR NEW WORK SHALL BE LABELED AS SPARE.

DRAWINGS, THE DESIGN, AND THE DETAILS THEREON REMAIN THE PROPERTY OF THE CONSULTANT AND ARE NOT TO BE ALTERED, RE-USED OR REPRODUCED WITHOUT THE CONSULTANT'S EXPRESS WRITTEN CONSENT.



OVERALL GROUND FLOON PLAN

SCALE - 1/32" : 1'-0"



DRAWING NOTES

MAIN ELECTRICAL ROOM 1011.

IN EXISTING SIEMENS MODEL FC1, 347/600V-302-4W, 600A, 42kA SCCR DISTRIBUTION PANET ADD ONE (1)-60A-3P BREAKER IN AVAILABLE SPACE AND CONNECT TO NEW MAKE-UP AIR

UNIT MUA-1 WITH 3#6+G IN 35mm CONDUIT. PROVIDE NEW LAMACOID NAMEPLATE MATCHING EXISTING NAMEPLATES WITH THE INSCRIPTION "NEW INDIAN KITCHEN MUA-1". REFER TO GROUND FLOOR PLAN - POWER AND SYSTEMS AND DRAWING NOTE No.11 ON DRAWING E2.1.

ADD ONE (1)-15A-3P BREAKER IN AVAILABLE SPACE AND CONNECT TO NEW KITCHEN EXHAUST FAN KEF-1 WITH 3#12+G IN 21mm CONDUIT. PROVIDE NEW LAMACOID NAMEPLATE MATCHING EXISTING NAMEPLATES WITH THE INSCRIPTION " NEW INDIAN KITCHEN KEF-1". REFER TO GROUND FLOOR PLAN - POWER AND SYSTEMS AND DRAWING NOTE No.12 ON DRAWING E2.1.

2 ELECTRICAL ROOM AREA #2, ROOM No.1073. ADD NEW OR REUSE SPARE BREAKERS IN EXISTING ELECTRICAL PANELS IN THIS ROOM AS LISTED BELOW. ALL NEW BREAKERS TO MATCH ALL CHARACTERISTICS OF EXISTING BREAKERS. REFER TO FIRST FLOOR PLAN - POWER AND SYSTEMS PLAN ON DRAWING E2.1 FOR DETAILS.

<u>IN EXISTING SIEMENS TYPE 1, 120/208V-3/0-4W, 25/0A PANEL "EMC"</u>

ADD THREE (4)-15A-1P BREAKERS IN AVAILABLE SPACES CIRCUITS NUMBERS Nos. 21, 25, 25 AND 27 AND CONNECT TO KITCHEN WALKTOP FREEZER EQUIPMENT No.7, WALKTOP REFIRGERATORS EQUIPMENT No.8, WALK-IN FREEZER EVAPORATOR COIL AND DRAIN LINE HEATER, EQUIPMENT Nos. 2A AND 2B AND WALK-IN COOLER EVAPORATOR COIL EQUIPMENT No.3A. UPDATE CIRCUIT DIRECTORY TO REFLECT ADDITION ON NEW EQUIPMENT.

ADD ONE(1)-15A-2P BREAKER IN AVAILABLE SPACES CIRCUITS NUMBERS Nos. 28 AND 30 AND CONNECT TO WALK-IN COOLER CONDENSER EQUIPMENT No.17. UPDATE CIRCUIT DIRECTORY TO REFLECT ADDITION ON NEW EQUIPMENT. ADD ONE (1)-20A-2P BREAKER IN AVAILABLE SPACES CIRCUITS NUMBERS Nos. 24

AND 26 AND CONNECT TO KITCHEN WALK-IN FREEZER CONDESER EQUIPMENT

No.12. UPDATE CIRCUIT DIRECTORY TO REFLECT ADDITION ON NEW EQUIPMENT.

<u>IN EXISTING SIEVENS "208N3" 120/208V-30/4W, 800A DISTRIBUTION PANEL</u> REUSE EXISTING 150A SPARE BREAKER AND FEED NEW KITCHEN PANEL "KP" IN NEW INDIAN KITCHEN 157 WITH 4-1/0+G IN 53mm CONDUIT. REMOVE EXISTING "SPARE" LAMACOID NAMEPLATE AND REPLACE WITH NEW NAMEPLATE, MATCHING EXISTING WITH THE INSCRIPTION "INDIAN KITCHEN PANEL KP".

EXISTING PANEL "1S", SIEMENS TYPE "PZ", 250A MAIN, 120/208V-30/4WFED FROM PANEL "208-N3" IN SECONDARY ELECTRICAL ROOM 1073.

DISCONNECT & DEMOLISH EXISTING FAN COIL WIRING FROM SOURCE PANEL AND MAKE IT SAFE FOR REMOVAL.

DISCONNECT & DEMOLISH EXISTING REMOTE CONDENSER UNIT WIRING FROM SOURCE PANEL AND MAKE IT SAFE FOR REMOVAL.

DISCONNECT & DEMOLISH EXISTING EXHAUST FAN WIRING FROM SOURCE PANEL AND MAKE IT SAFE FOR REMOVAL.

7) DISCONNECT & DEMOLISH EXISTING ELECTRIC DUCT HEATER WIRING FROM SOURCE PANEL AND MAKE IT SAFE FOR REMOVAL.

8 UNLESS INDICATED OTHERWISE, DISCONNECT, REMOVE AND DISCARD ALL EXISTING ELECTRICAL DEVICES, LIGHTING FIXTURES WITHIN THIS SPACE. PROTECT AND MAINTAIN EXISTING NORMAL AND EMERGENCY LIGHTING AND EXIT

SIGNS BRANCH CIRCUITS FOR REUSE IN RENOVATION. CONTRACTOR SHALL REVIEW AND CONFIRM ON SITE THE EXTENT OF THE ELECTRICAL DEMOLITION SCOPE AND INCLUDE ALL ASSOCIATED COSTS IN HIS TENDER PRICE. 9 EXISTING EDWARDS FIRE ALARM SYSTEM CONTROL PANEL. MODIFY, UPGRADE PANEL AS REQUIRED TO ACCOMODATE NEW DEVICES FIRE ALARM INITIATING

ZONES AND CONTROL RELAYS AS INDICATED ON THE DRAWINGS. ALL NEW DEVICES SHALL BE COMPATIBLE WITH THIS PANEL. COORDINATE ALL REQUIREMENTS WITH PANEL MANUFACTURER AND INCLUDE ALL ASSOCIATED COSTS IN TENDER PRICE.

EXISTING FIRE ALARM SYSTEM ANNUNCIATOR PANEL. MODIFY, UPGRADE PANEL AS REQUIRED TO ACCOMODATE NEW DEVICES FIRE ALARM INITIATING ZONES COORDINATE ALL REQUIREMENTS WITH PANEL MANUFACTURER.

THESE DRAWINGS ARE NOT TO BE SCALED ALL DRAWINGS, THE DESIGN, AND THE DETAILS THEREON REMAIN THE PROPERTY OF THE CONSULTANT AND ARE NOT TO BE ALTERED, RE-USED OR REPRODUCED WITHOUT THE CONSULTANT'S EXPRESS WRITTEN CONSENT.

THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MUST CONFIRM & CORRELATE ALL DETAILS WITHIN THE FULL DRAWING PACKAGE BEING RESPONSIBLE FOR SAME THROUGHOUT CONSTRUCTION, REPORTING ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING THE RELEVANT WORK

ALL DRAWINGS, DETAILS & SPECIFICATIONS REPRESENTED IN THE DRAWINGS ARE TO BE USED FOR CONSTRUCTION ONLY WHEN ISSUED BY THE ARCHITECT AND NOTED ACCORDINGLY IN THE "ISSUE/REVISIONS" BOX HEREON.

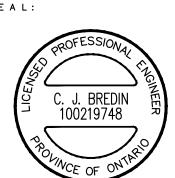
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TRUE NORTH:



DRAWING TITLE: ELECTRICAL Ground Floor Overall & Demolition Plans

SCALE: AS NOTED

DATE: DECEMBER 2023

DRAWN:

PROJECT #: ALL-23014405-A0

> DRAWING #: E2.0

PARTIAL GROUND FLOOR PLAN - ELECTRICAL DEMOLITION E2.0 SCALE - 1/4" : 1'-0"

DRAWING NOTES

EXTEND EXISTING EXIT SIGN BRANCH CIRCUIT AND CONNECT TO NEW EXIT SIGNS

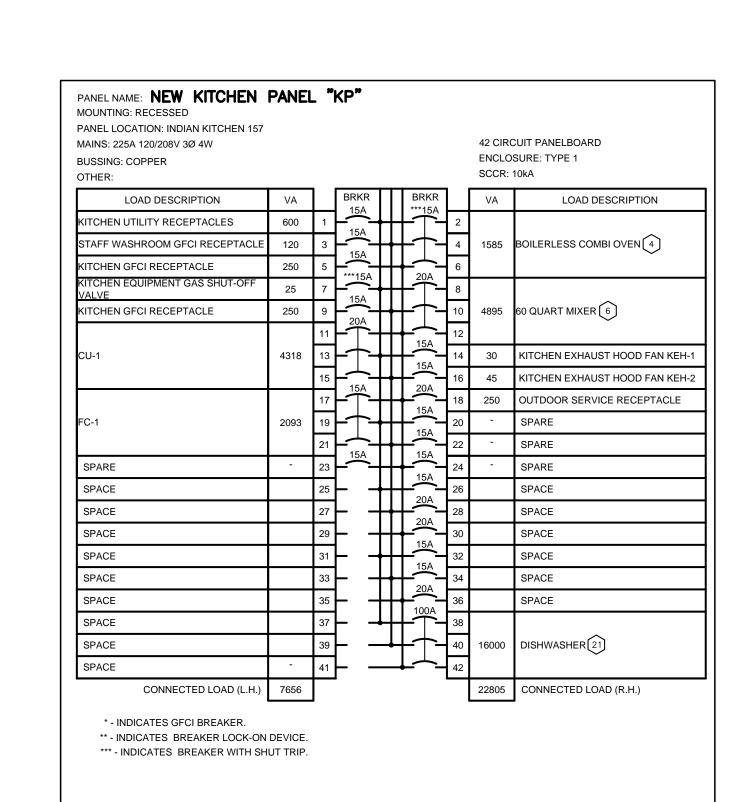
IN THE RENOVATION AREA. SEE DRAWING NOTE NO.8 ON DRAWING E2.0.

- FIRE SUPPRESSION SYSTEM PULL RING FIRE STATION BY KITCHEN EQUIPMENT SUPPLIER, DIVISION 16 TO PROVIDE A RECESSED JUNCTION BOX AND WIRE EXTEND EXISTING BRANCH CIRCUIT AND CONTROL WIRING IN SURFACE THROUGH FIRE SUPPRESSION AUXILIARY CONTACT FOR MANUAL ACTIVATION OF FIRE SUPPRESSION SYSTEM AND INITIATION OF FIRE ALARM SYSTEM. NEW FIXTURE. COORDINATE INSTALLATION AND WIRING WITH KITCHEN EQUIPMENT SUPPLIER.
- T EXTEND EXISTING NORMAL AND EMERGENCY POWER LIGHTING BRANCH
 CIRCUITS WITHIN THE PENOVATED AREAS AND CONNECT TO NEW NORMAL PROVIDE BRANCH CIRCUIT BREAKER WITH SHUNT TRIP WIRED TO THE FIRE CIRCUITS WITHIN THE RENOVATED AREAS AND CONNECT TO NEW NORNAL SUSPRESSION SYSTEM FOR AUTOMATIC POWER SHUT-OFF UPON FIRE POWER AND EMERGENCY LIGHTING FIXTURES VIA NEW LIGHTING CONTROL SUPRESSION ACTIVATION. SWITCHES. SEE DRAWING NOTE NO.8 ON DRAWING E2.0.
- $\langle 4 \rangle$ CONNECT TO EXISTING LOCAL FIRE ALARM SIGNALLING CIRCUITS.
- $\langle 5 \rangle$ CONNECT TO EXISTING LOCAL FIRE ALARM INITIATING ZONE.

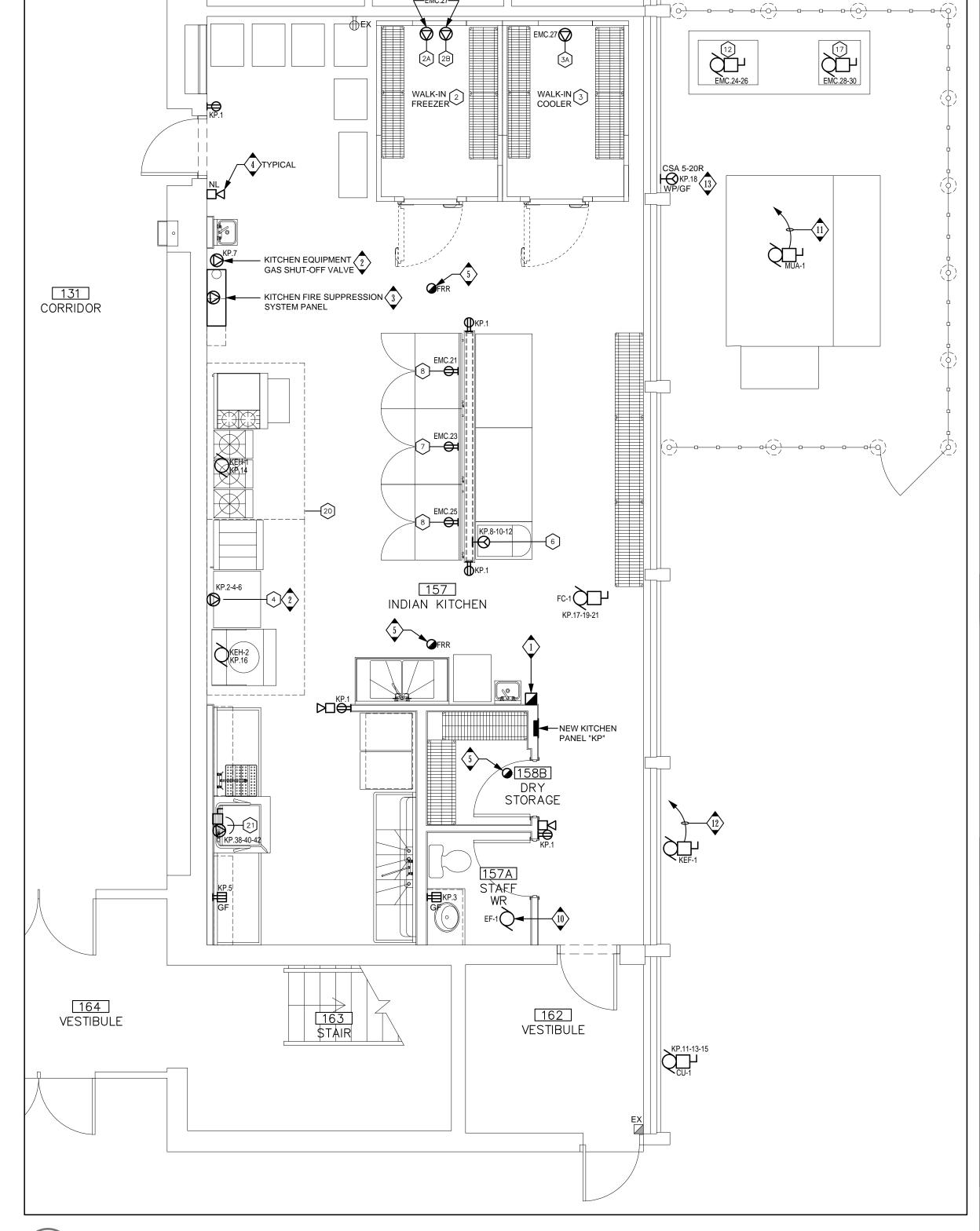
(3) CONNECT TO A NEW FIRE ALARM INTIATING ZONE.

- 9 FOR COOLER AND FREEZER LIGHTING: MOUNT ON WALL AT THE SAME HEIGHT AS THE EXISTING LIGHT FIXTURE AND EXTEND EXISTING. UNSWITCHED NORMAL POWER LIGHTING BRANCH CIRCUIT WITHIN THE RENOVATED AREAS AND CONNECT TO WIRING INTEGRAL TO COOLER GALVANIZED STEEL CONDUIT FROM EXISTING LIGHT FIXTURE AND CONNECT TO OR FREEZER LIGHTING CONTROL WIRING IN JUNCTION BOX #1 AND RUN 2#12 + GND IN CONDUIT FROM JUNCTION BOX #1 TO JUNCTION BOX #2 AND CONNECT TO WIRING INTEGRAL TO COOLER OR FREEZER IN JUCTION BOX #2. SEE DRAWING
 - COOLER AND FREEZER LIGHTING CONTROL SWITCHES, LIGHTING FIXTURES AND INTEGRAL WIRING BETWEEN SWITCHES AND JUNCTION BOX #1 AND BETWEEN LIGHTING FIXTURES AND JUCTION BOX #2 ARE SUPPLIED AND INSTALLED BY COOLER AND FREEZER MANUFACTURER.
 - PROVIDE A TIME DELAY RELAY ("OFF "DELAY) IN NEAREST ACCESSIBLE CEILING \$\langle 10 \rangle SPACE AND WIRING EXHAUST FAN TO WASHROOM LIGHTING BRANCH CIRCUIT AND CONTROL SO THAT FAN AUTOMATICALLY STARTS WHEN ROOM LIGHTING IS TURNED "ON" AND AUTOMATICALLY STOPS FIVE (5) MINUTES AFTER ROOM LIGHTING IS TURNED "OFF".
 - FEED FROM NEW 60A-3P BREAKER IN EXISTING MAIN DISTRIBUTION PANEL 600-N1 IN EXISTING MAIN ELECTRICAL ROOM 1011. NEW BREAKER TO MATCH ALL CHARACTERISTICS OF EXISTING BREAKERS. REFER TO OVERALL GROUND FLOOR PLAN AND DRAWING NOTE No.1 ON DRAWING E2.0.
 - FEED FROM NEW 15A-3P BREAKER IN EXISTING MAIN DISTRIBUTION PANEL 600-N1 IN EXISTING MAIN ELECTRICAL ROOM 1011. NEW BREAKER TO MATCH ALL CHARACTERISTICS OF EXISTING BREAKERS. REFER TO OVERALL GROUND FLOOR PLAN AND DRAWING NOTE No.1 ON DRAWING E2.0.
 - MOUNT AT 600mm ABOVE FINISHED GROUND COMPLETE COMPLETE WITH "IN-USE" WEATHERPROOF COVER.

		FOODSERVICE EQUIPMENT LIST AND	SERVICES (REFER	TO 11400 FOOD SE	ERVICE	S EQI	UIPME	NT FOR ADDITIONAL INFORM	MATION)	
					ELE	CTRIC	CAL			
۱o.	Q'TY	DESCRIPTION	MANUFACTURER	MODEL	SINGL			CONNECTION TYPE	SUPPLIED BY	INSTALLED BY
					120V	208V	208V			
2	1	WALK IN FREEZER	CURTIS	CF4-9138WW	-	-	-	-	KITCHEN EQUIPMENT	GENERAL
2A	1	WALK IN FREEZER EVAPORATOR COIL	CURTIS			0.8A		15A DIRECT CONNECTION	KITCHEN EQUIPMENT	GENERAL
2B	1	WALK IN FREEZER DRAIN LINE HEATER	CURTIS		1.0A			15A DIRECT CONNECTION	KITCHEN EQUIPMENT	GENERAL
2C	1	WALK IN FREEZER LIGHTING JUNCTION BOX #1	CURTIS		0.5A			15A DIRECT CONNECTION	KITCHEN EQUIPMENT	GENERAL
2D	1	WALK IN FREEZER LIGHTING JUNCTION BOX #2			-			15A DIRECT CONNECTION	KITCHEN EQUIPMENT	GENERAL
3	1	WALK IN COOLER	CURTIS	CF4-9138WW	-	-	-	-	KITCHEN EQUIPMENT	GENERAL
3A	1	WALK IN COOLER EVAPORATOR COIL	CURTIS			1.3A		15A DIRECT CONNECTION	KITCHEN EQUIPMENT	GENERAL
3B	1	WALK IN COOLER LIGHTING JUNCTION BOX #1	CURTIS		0.5A			15A DIRECT CONNECTION	KITCHEN EQUIPMENT	GENERAL
3C	1	WALK IN COOLER LIGHTING JUNCTION BOX #2	CURTIS		-			15A DIRECT CONNECTION	KITCHEN EQUIPMENT	GENERAL
4	1	BOILERLESS COMBI OVEN	VULCAN	TCM 61G	-		4.4 A	15A DIRECT CONNECTION	KITCHEN EQUIPMENT	GENERAL
6	1	60 QUART MIXER	ESTELLA	348SM60			13.6 A	NEMA 6-20R RECEPTACLE	KITCHEN EQUIPMENT	GENERAL
7	1	WORKTOP FREEZER	TRUE	TWT-48F	6.1 A			NEMA 5-15R RECEPTACLE	KITCHEN EQUIPMENT	MECHANICAL
8	2	WORKTOP REFRIDGERATOR	TRUE	TWT-48	5.0 A			NEMA 5-15R RECEPTACLE	KITCHEN EQUIPMENT	MECHANICAL
2	1	WALK IN FREEZER CONDENSER	CURTIS			12.4A		20A DIRECT CONNECTION	KITCHEN EQUIPMENT	GENERAL
17	1	WALK IN COOLER CONDENSER	CURTIS			7.9A		15A DIRECT CONNECTION	KITCHEN EQUIPMENT	GENERAL
20	1	EXHAUST HOOD	CAPTIVEAIR	SEE MECHANICAL				15A DIRECT CONNECTION	KITCHEN EQUIPMENT	MECHANICAL
21	1	DISHWASHER	CHAMPION	DH6000		77 A		100A DIRECT CONNECTION	KITCHEN EQUIPMENT	MECHANICAL
	1	FIRE SUPPRESSION SYSTEM			5.0 A			15A DIRECT CONNECTION	KITCHEN EQUIPMENT	GENERAL
	1	GAS SOLENOID VALVE			0.4A			15A DIRECT CONNECTION	MECHANICAL	MECHANICAL



TYPE	DESCRIPTION
D10	 4" DIAMETER RECESSED LED DOWNLIGHT 120V, 1500LM, 4000K, 80+CRI, 7.6W 0-10V DIMMING DRIVER SEMI SPECULAR REFRLECTOR MEDIUM DISTRIBUTION WHITE FLANGE CURRENT - PRESCOLITE LFR-R4D SERIES
R12	 12" x 24" VOLUMETRIC RECESSED LED TROFFER 120V, 2580LM, 4000K, 80+CRI, 7.6W 0-10V DIMMING DRIVER CURVED SHEILDING WHITE FINISH CURRENT - COLUMBIA LCAT14 SERIES
S10	 4' LONG SURFACE MOUNTED LED STRIPLIGHT 120V, 4400LM, 4000K, 80CRI, 32.5W 0-10V DIMMING DRIVER WHITE ROUND FROSTED LENS WHITE FINISH CURRENT - COLUMBIA LIGHTING CSL SERIES
V10	- 3' LONG SURFACE MOUNTED LED VANITY FIXTURE - 120V, 2854LM, 4000K, 80CRI, 18.2W - 0-10V DIMMING DRIVER - SQUARE FROSTED ACRYLIC LENS - WHITE FINISH - CURRENT - COLUMBIA LIGHTING WALL3 SERIES
W10	- SURFACE MOUNTED LED WALLPAK - 120V, 5619LM, 4000K, 80CRI, 40W - TYPE 4 DISTRIBUTION - BOROSILICATE GLASS LENS - WET LOCATION RATED - BRONZE FINISH - CURRENT - EXO LIGHTING WGH1 SERIES
X10	EXIT SIGN - SINGLE FACE, SELF POWERED - UNIVERSAL MOUNTING - 120V, 2 WATTS - DIRECTIONAL ARROW AS INDICATED ON PLAN - ABB EMERGI-LITE X10 LED SERIES



CORRIDOR 8 TYPICAL 157 7 INDIAN KITCHEN 1 HR. FIRE R*A* 158B DRY 157A M STAFF WR

163 STAIR

[162] VESTIBULE

GROUND FLOOR PLAN - LIGHTING SCALE - 1/4" : 1'-0"

164 VESTIBULE

GROUND FLOON PLAN - POWER AND SYSTEMS E2.1 SCALE - 1/4" : 1'-0"

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3 - ISSUED FOR TENDER - 2024-01-31 2 - ISSUED FOR PERMIT - 2024-01-18

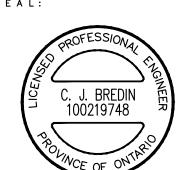
1 - PROGRESS SET - 2023-11-29 PROJECT:

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7 Tait Ave., Fort Erie, ON

SEAL:

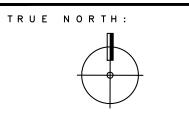


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DRAWING TITLE: ELECTRICAL Ground Floor Plan New Power & Systems & Lighting

SCALE: AS NOTED DRAWN:

DATE: DECEMBER 2023

PROJECT #: ALL-23014405-A0

DRAWING #: E2.1

INSTALLED DISCONNECT.

KITCHEN HOOD CONTROLLER, CSA CERTIFIED

START/STOP: MANUAL MOUNTING: WALL

SUPPLY MOTOR STARTER: UNIT MOUNTED

ITEM: CONTROL PANEL, MODEL: RPD-P11-MW-SW-AS EMC TYPE: REMOTE EXHAUST MOTOR STARTER(S)

SUPPLY: BY OTHERS EXHAUST: BY OTHERS

HOOD(S): SPRING AIR

NO. OF EXHAUST FANS

JOB NAME:									FC	ORT ERIE INTERN	IATIONAL ACA	DEMY INTERIOR	RENOVATION	S							JOB No.	ALL-23014405-A0
										М	ECHANICAL	SCHEDULE	- EXHAUS1	T HOOD								
DWG.	avatar i pagu	***	EXHAUS	ST DUCT CON	ECTION	SUPPL	Y DUCT CONN	ECTION	HOOD SIZE (L x	CI	FM	MAX GREASE EXTRACTOR	WEGHT	MECHANICAL PERMARKS		WIRI	NG FOR MEC	HANICAL E	QUIPMENT S	SCHEDULE		T FOTBOAL MICHOLINOTPHOTONO
DESIGNATION	SYSTEM and ROOM	MODEL	SIZE (L x W) (IN)	STATIC PRESSURE (IN.WC)	QTY	SIZE (L x W) (IN)	STATIC PRESSURE (IN.WC)	QTY	WxH) (IN)	EXHAUST	SUPPLY	RATING (CFM/L.F.)	(LBS)	MECHANICAL REMARKS	MOTOR W or HP	MCA FLA	МСОР	VAC/ø	ROOM STARTER TYPE	REMOTE CONTROL DEVICE	DISC. TYPE	ELECTRICAL WIRING INSTRUCTIONS
KEH-1	KITCHEN EXHAUST	SPRINGA IR FN-B-MB-8.33/4.5	16 x 10	0.64	1	28 x 8	0.2	2	100 x 54 x 23	1674	1591	500	458	DY NAFLOW WALL MOUNTED EXHAUST HOOD, INTEGRAL WET CHEMICAL FIRE PROTECTION SYSTEM, GREASE TRAP, AIR DIFFUSER, LED LIGHTING CIRCUIT	30 W	0.25		120/1	-	KITCHEN HOOD CONTROLLER	-	DIVISION 16 TO WIRE 120/1 TO FAN ON KITCHEN HOOD. ALL CONTROLS WIRING BY KITCHEN HOOD SUPPLIER
KEH-2	KITCHEN EXHA UST	SPRINGA IR FN-B-MB-9.33/4.5	21 x 10	0.62	1	28 x 8	0.2	2	112 x 54 x 23	2174	2071	500	513	DY NAFLOW WALL MOUNTED EXHAUST HOOD, INTEGRAL WET CHEMICAL FIRE PROTECTION SY STEM, GREASE TRAP, AIR DIFFUSER LED LIGHTING CIRCUIT	45 W	0.38		120/1	ŧ	KITCHEN HOOD CONTROLLER	8-	DIVISION 16 TO WIRE 120/1 TO FAN ON KITCHEN HOOD. ALL CONTROLS WIRING BY KITCHEN HOOD SUPPLIER.

JOB NAME:								FORT	ERIE INTERN	ATIONAL ACAD	EMY INTERIO	OR RENOVATIONS							JOB No.	ALL-23014405-A0
								MECH	ANICAL S	CHEDULE -	FAN COIL	LS								
				CF	M		COOLING		HEATING	;				WI	RING FOR MI	ECHANICAL	EQUIPMENT S	CHEDULE		
DWG. DESIGNATION	SYSTEM and ROOM	MODEL	SPEC TYPE	SUPPLY	OA	TSP (IN W.G)	TOTAL COOLING (MBH)	TOTAL HEATING (MBH)	FLOW RATE (GPM)	PRESSURE DROP (FT H20)	WEIGHT LBS	MECHANICAL REMARKS	MOTOR W or HP	МСА	МСОР	VACIØ	ROOM STARTER TYPE	REMOTE CONTROL DEVICE	DISC. TYPE	ELECTRICAL WIRING INSTRUCTION
FC-1	KITCHEN	TRANE BCHE036	DX/2 PIPE	1200	215	1.6	38.33	54.8	5.23	8	210	FANCOIL UNIT, MERV 13 FILTER RACK, DX COIL, HW COIL, FACTORY COTNROLS.	668 W	5.75	15	208/3	BIC	T (D15)	C2	DIVISION 16 TO PROVIDE DISCONNEC SWITCH AND WIRE 600V/3 TO UNIT VI DISCONNECT. ALL CONTROLS WIRING BY DIVISION 15.

JOB NAME:					FORT ERIE	INTERNATIONAL A	A CA DEMY INTERIOR RENOVATIONS							JOB No.:	ALL-23014405-A0
						MECH	HANICAL SCHEDULE - CONDENSING UN	ITS							
DWG	D/ADODA TODUMT			WEGUT	cc	OLING			WIRI	NG FOR MEC	HANICAL	EQUIPMENT S	CHEDULE		
DWG. DESIGNATION	EVAPORATOR UNIT DESIGNATION	SYSTEM and ROOM	MODEL	(LBS)	AMBIENT (°F)	CAPACITY (Nom. Ton)	MECHANICAL REMARKS	MOTOR W or HP	MCA FLA	МСОР	VAC/ø	ROOM STARTER TYPE	REMOTE CONTROL DEVICE	DISC. TYPE	ELECTRICAL WIRING INSTRUCTIONS
CU-1	FC-1	ROOF	TRANE 4TTA4036A3000A	183	115	3	REMOTE CONDENSER, SPLIT SY STEM A IR CONDITIONER. COORDIANTE REFRIGERANT PIPE SIZING WITH MANUFACTURER.		12	20	208/3	BIC	FC-1	C3R	DIVISION 16 TO PROVIDE DISCONNECT SWITCH AND WIRE 208V/3 TO UNIT VIA DISCONNECT. ALL CONTROLS WIRING BY DIVISION 15.

JOB NAME:					FOR	T ERIE INTERI	NATIONAL A CADEMY	INTERIOR RENOVATIONS							JOB No.	ALL-23014405-A0
								MECHANICAL SCHEDULE - F	ANS							
											WIRING FO	RMECHANIC	CAL EQUIPMENT SCHE	DULE		
DWG. DESIGNATION	SYSTEM and ROOM	MODEL	(CFM)	ESP (IN W.G.)	RPM	VFD	WEIGHT LBS	MECHANICAL REMARKS	MOTOR HP or W	FLA	МСОР	VAC/ø	ROOM STARTER TYPE	REMOTE CONTROL DEVICE	DISC. TYPE	ELECTRICAL WIRING INSTRUCTIONS
EF-1	STAFF WASHROOM	PENN BARRY ZJ1	157	0.13	1020	NO	19	LOW PROFILE CEILING FAN, BACK DRAFT DAMPER, A DJUSTABLE MOUNTING FLANGES	125 W			115/1	-	-	SW	DIVISION 16 TO WRE TO ROOM LIGHTING CIRCUI AND LIGHTING CONTROL. FAN RUNS WHEN LIGHTS ARE TURNED "ON" AND STOPS WHEN LIGHTS ARE TURNED "OFF"
KEF-1	KITCHEN EXHAUST	PENN BARRY FX18BH	3848	1.6	1328	NO	142	WALL MOUNTED UPBLAST SPUN ALUMINUM EXHAUST FAN, C'W CURB CAP, WALL MOUNTING ADAPTER, HINGED SUB-BASE.	3 2 HP	2.7		600/3	OUTDOOR COMBO H-O-A PL	KITCHEN HOOD CONTROLLER	C3R	DIVISION 16 TO PROVIDE DISCONNECT SWITCH AND WIRE 600V/3 TO FAN VIA DISCONNECT. ALL CONTROLS WIRING BY DIVISION 15.

WIRING FOR MECHANICAL EQUIPMENT SCHEDULE LEGEND

- AM ACTUATOR MOTOR
- APS AIR PROVING SWITCH
- CONTROL BY BUILDING AUTOMATION SYSTEM CONTRACTOR
- BIC BUILT IN CONTROLLER
- EEMAC-1 TYPE DISC. SWITCH
- C2 EEMAC-2 TYPE DISC. SWITCH
- C3R EEMAC-3R TYPE DISC. SWITCH
- C4 EEMAC-4 TYPE DISC. SWITCH
- C12 EEMAC-12 TYPE DISC. SWITCH COMB - COMBINATION MAGNETIC STARTER
- CP CONTROL PANEL
- CSR CURRENT SENSING RELAY
- CT CONTROL TRANSFORMER
- CWSV COLD WATER SOLENOID VALVE (D15) - ITEM ADJACENT IS SUPPLIED, INSTALLED
- AND WIRED BY MECHANICAL DIVISION. (D15A) -ITEM ADJACENT IS SUPPLIED AND INSTALLED
- BY MECHANICAL DIVISION. ELECTRICAL DIVISION
- (D16) ITEM ADJACENT IS SUPPLIED BY MECHANICAL DIVISION. ELECTRICAL DIVISION INSTALLS AND WIRES ITEM.
- DISC DISCONNECT
- DM DAMPER MOTOR
- DMSW DAMPER MOTOR SWITCH

WIRING FOR MECHANICAL EQUIPMENT SCHEDULE LEGEND

WIRING SHALL NOT BE RUN NEXT TO POWER WIRING. A MINUM SPACE OF 100mm BETWEEN BOTH CONTROL AND POWER CALBES SHALL APPLY

- DVR DOUBLE VOLTAGE RELAY
- FA FIRE ALARM SYSTEM CONNECTION
- FAIM ADDRESSABLE FIRE ALARM INPUT MODULE
- FACR ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE
- FL FLOAT SWITCH FLA - FULL LOAD RUNNING AMPERES
- FPU FIELD PROCESSOR UNIT BY DIV. 15900*
- FPU/SS START/STOP CONTROL OUTPUT FROM FPU*
- FPU/ST MOTOR RUNNING STATUS INPUT TO FPU* FRAC - FRACTIONAL HORSEPOWER
- FS FLOW SWITCH
- GSV GAS SOLENOID VALVE
- HOA HAND/OFF/AUTO SWITCH IN STARTER COVER
- HUM HUMIDISTAT
- HWSV HOT WATER SOLENOID VALVE IRS - INFRARED SENSOR
- \mid KMSW KEY OPERATED MOMENTARY CONTACT SWITCH \mid
- KSW/PL KEY SWITCH(15A, 120V,SPST, LOCK TYPE C/W PILOT LIGHT)
- LS LEVEL SWITCH
- LWCO LOW WATER CUT OFF MAG - MAGNETIC STARTER
- LS LEVEL SWITCH
- LWCO LOW WATER CUT OFF

WIRING FOR MECHANICAL **EQUIPMENT SCHEDULE LEGEND**

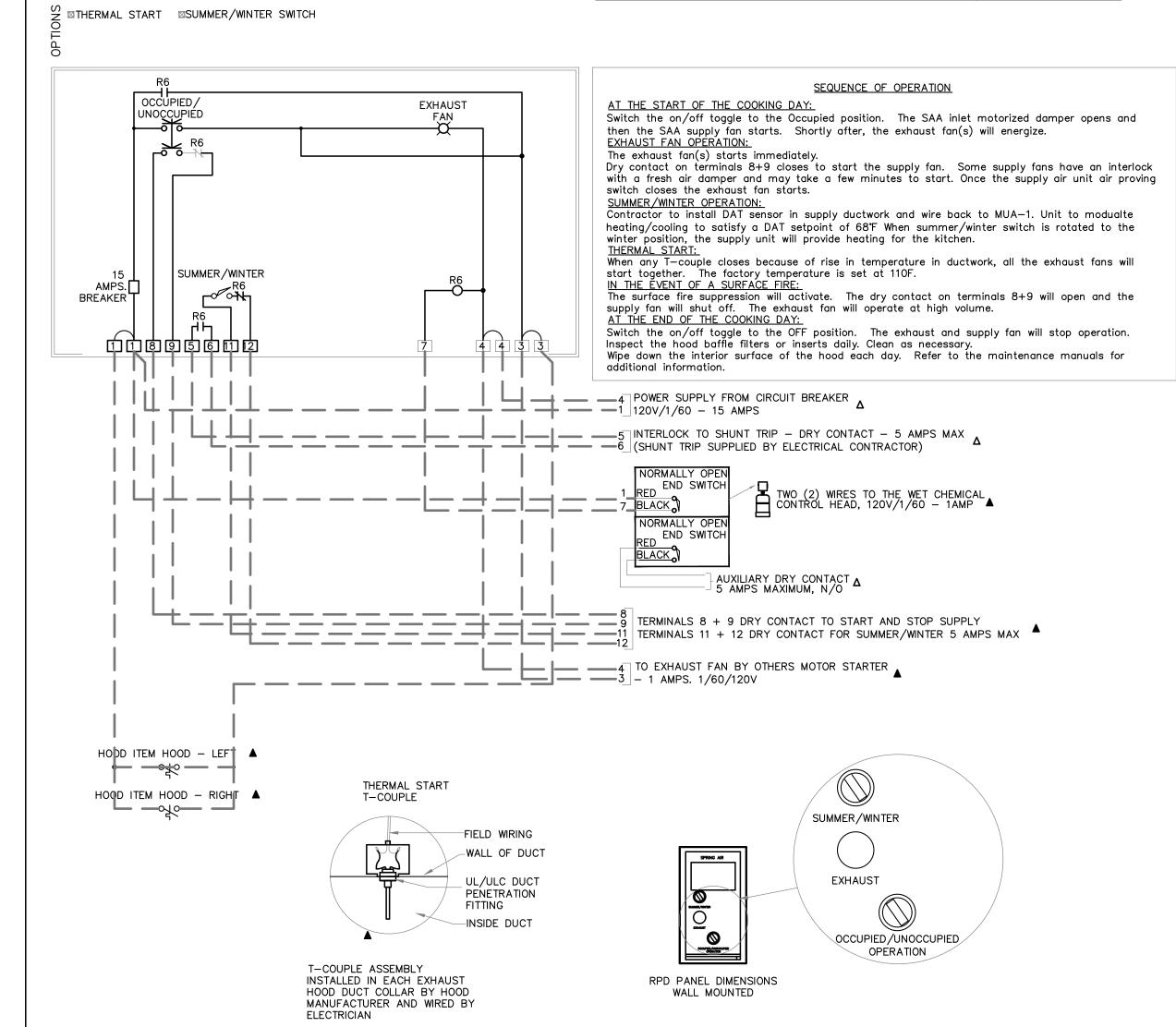
- MAG MAGNETIC STARTER
- MAN MANUAL STARTER
- MCA MINIMUM CIRCUIT AMPS
- MCC MOTOR CONTROL CENTRE
- MFA MAXIMUM FUSE AMPACITY
- MOCP MAXIMUM OVER CURRENT PROTECTION
 - MVS MONITORED VALVE SWITCH ODT - OFF DELAY TIMER
 - PB PUSHBUTTON ON/OFF SWITCH IN STARTER COVER
 - PL PILOT LIGHT IN STARTER COVER
 - PLG 120V RECEPTACLE BY ELECTRICAL DIVISION
 - PS PRESSURE SWITCH
 - RPB REMOTE STOP/START PUSHBUTTON
 - RPL REMOTE PILOT LIGHT SD - SMOKE DETECTOR (DUCT TYPE)
 - SS SPEED SWITCH
 - SLS & PL SELECTOR SWITCH AND PILOT LIGHT
 - SV SOLENOID VALVE
 - SW HP RATED TOGGLE SWITCH TC - TEMPERATURE CONTROLLER
 - TI TIMER (INTERVAL)
 - T7 TIMER (7-DAY)
 - TRS THERMOSTAT REVERSING SWITCH

WIRING FOR MECHANICAL EQUIPMENT SCHEDULE LEGEND

TS - THERMOSTAT

- T THERMOSTAT OR TEMPERATURE SENSING UNIT
- VM VALVE MOTOR
- VFD VARIABLE FREQUENCY (OR SPEED) DRIVE
- (VSD)

TOA - TEST/OFF/AUTO SWITCH IN STARTER COVER.



<u>KITCHEN EXHAUST HOOD - WIRING DIAGRAM</u>

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▲ CONTROL WIRING BY CONTROL CONTRACTOR

FACTORY WIRING BY SPRING AIR SYSTEMS

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AT 1-866-874-4505 IF
MOTOR STARTERS OVERLOADS

YOU HAVE ELECTRICAL

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1 - ISSUED FOR PERMIT- 2024-01-18

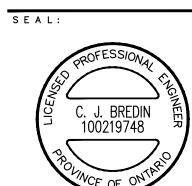
2 - ISSUED FOR TENDER- 2024-01-31

PROJECT: Interior Alterations

Internationa

Academy

7 Tait Ave., Fort Erie, ON



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DRAWING TITLE: MECHANICAL & ELECTRICAL SCHEDULES

SCALE: AS NOTED

DRAWN:

DECEMBER 2023 PROJECT #:

ALL-23014405-A0 DRAWING #: