



Addendum # 1
Bid Opportunity: 24-7512-RFT - Courtland Public
School HVAC Upgrades
Closing Date: Tuesday, April 2, 2024 2:00 PM

The following issued by the Board shall form part of the Bid / Proposal Solicitation document. The revisions and additions noted herein along with any attachments shall be read in conjunction with all other related documents. This Addendum shall, take precedence over the previously issued documents where differences occur. Receipt of this addendum must be acknowledged in the Bidding System, bids&tenders.

If you have already submitted a Bid / Proposal, it will be automatically withdrawn as a result of this addendum. You must resubmit the Bid / Proposal acknowledging all addenda and revising your Bid / Proposal to comply with all addenda.

Question 1:

Please provide a base specification for the new flooring and ceramic tile. Notes on the drawings say to match existing, The flooring contractors need to know what materials to allow for.

Answer 1:

Specification attached for Resilient Flooring. Colour is to match existing flooring.

Question 2:

Will a closing extension be considered on this tender? We have had a huge quantity to bid and are just getting to look at this one now and determining if we have enough time to bid.

Thank you.

Answer 2:

The tender closing date will remain unchanged.

Question 3:

1. All I can see is a rubber base spec, but there is a note on the finish plans that there is to be flooring replacement in every room as well, if so please provide the flooring specification.

Answer 3:

Refer to attached updated finish plans for appropriate amount of flooring to be replaced if damaged. Refer to Resilient Flooring specification.

Question 4:

Library controls and additional electrical scope.

Answer 4:

Refer to Addendum 01 prepared by DEI Consulting Engineers for added electrical scope.

Question 5:

Updated Painting Specification.

Answer 5:

Refer to updated painting specification.

Question 6:

Additional locker updates in first floor corridor.

Answer 6:

Refer to updated plans showing new scope in first floor corridor.

Question 7:

Revised Mechanical scope.

Answer 6:

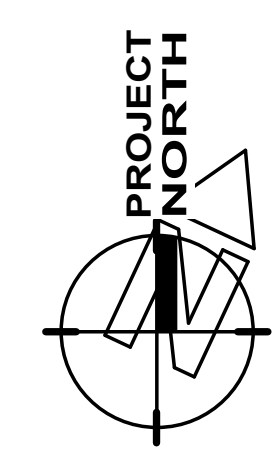
Refer to Addendum 01 prepared by DEI Consulting Engineers for added mechanical scope.

END OF ADDENDUM

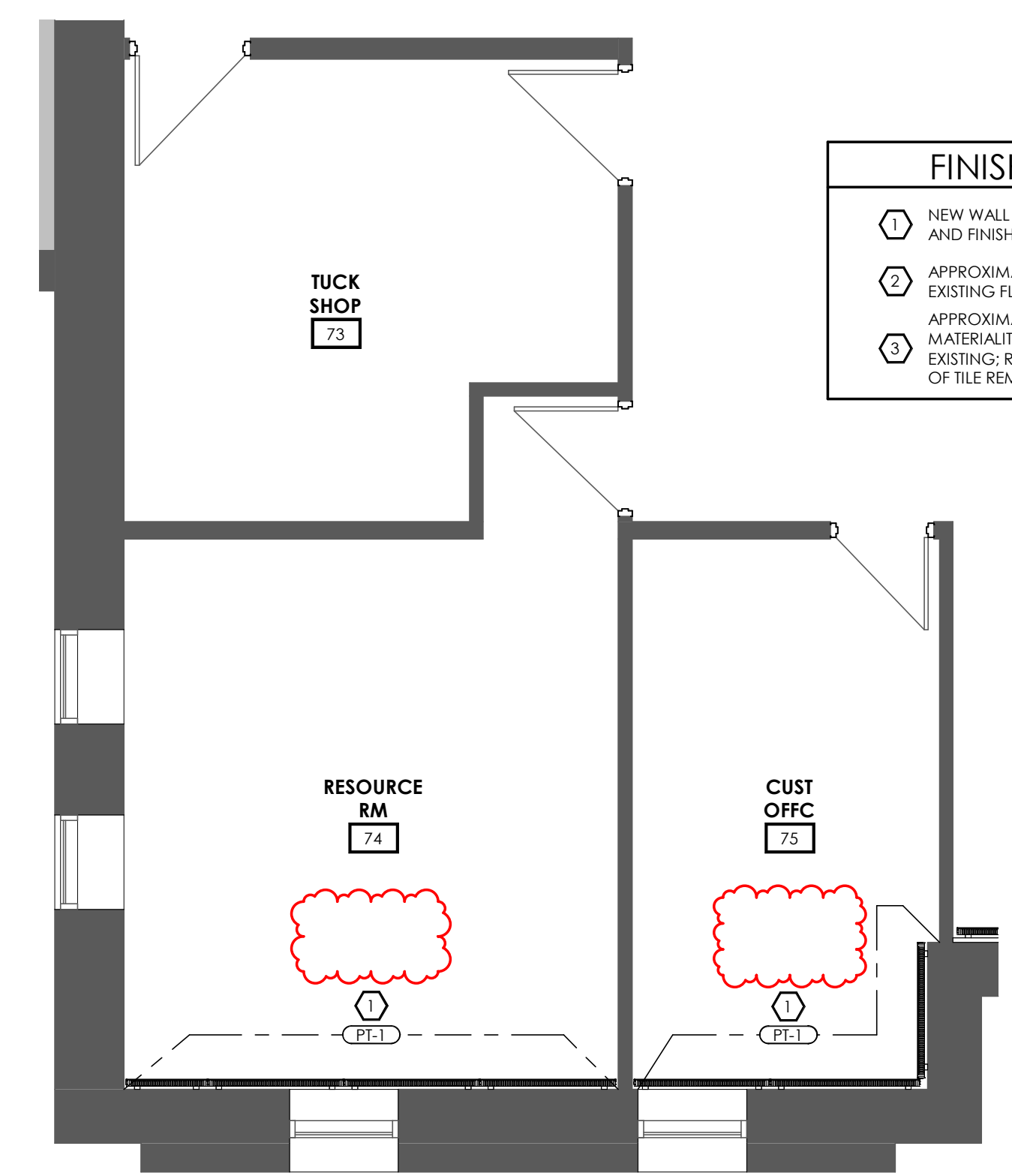
THIS DRAWING IS AN INSTRUMENT OF SERVICE & IS THE PROPERTY OF ABA ARCHITECTS INC. & CANNOT BE MODIFIED AND/OR REPRODUCED WITHOUT THE PERMISSION OF ABA ARCHITECTS INC.
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No.	REVISIONS	DATE
1	AMMENDMENT 01	2024.03.26



GROUND KEY PLAN



- FINISH PLAN KEYNOTES**
- 1 NEW WALL BASE TO BE ADDED TO MATCH MATERIALITY AND FINISH OF EXISTING WALL BASE IN ROOM.
 - 2 APPROXIMATE EXTENT OF NEW FLOORING TO MATCH EXISTING FLOORING.
 - 3 APPROXIMATE EXTENT OF WALL TO BE TILED; TILE MATERIALITY & FINISH AND GROUT COLOUR TO MATCH EXISTING; REFER TO ELEVATION 02/A2.13 FOR DIRECTION OF TILE REMOVED AND REINSTALLED.

1 ROOMS 73, 74, & 75 FINISHES PLAN

1:50

- CEILING ASSEMBLIES**
- CA1 CEILING ASSEMBLY CA1**
 - PRE-ENGINEERED ACOUSTIC TILE CEILING SUSPENSION SYSTEM
 - 610 X 1220 ACOUSTIC TILE
 - CA2 CEILING ASSEMBLY CA2**
 - PRE-ENGINEERED GYPSUM BOARD CEILING SUSPENSION SYSTEM
 - 13 GYPSUM BOARD
 - BLKH1 BULKHEAD ASSEMBLY BLKH1**
 - 13 GYPSUM BOARD TO U/S OF EXISTING CEILING
 - 64 METAL STUDS @ 406 O.C./ PROVIDE BRACING AS REQUIRED
- NOTE:**
 1. REFER TO FINISHES MATERIAL SPECIFICATIONS, ACT-1 FOR ACOUSTIC TILE SIZE, COLOUR, AND STYLE.
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 1. REFER TO FINISH SCHEDULE PT-1 FOR PAINT FINISH
 2. U/S OF BULKHEAD ELEVATION IS TO MATCH ADJACENT CEILING ASSEMBLY UNLESS NOTED OTHERWISE

- FINISHES PLAN LEGEND**
- (PT-X) FINISH TYPE
 - FLOOR TRANSITION
 - FLOORING INSTALLATION DIRECTION
 - - - - - WALL FINISH LOCATION

DRYWALL FINISH LEGEND

LEVEL	DESCRIPTION	KEY NOTE
LEVEL 0	UNFINISHED	NO TAPE REQUIRED
LEVEL 1	TAPE AND JOINT COMPOUND	-
LEVEL 2	UNFINISHED OR TILE FINISH ONLY	-
LEVEL 3	HEAVYWEIGHT FINISHES ONLY	-
LEVEL 4	LIGHTWEIGHT FINISHES ONLY	CLASSIC DRYWALL FINISH
LEVEL 5	FLAT, SEMI-GLOSS, GLOSS FINISHES	HIGHEST POSSIBLE FINISH

PAINT GLOSS LEVEL LEGEND

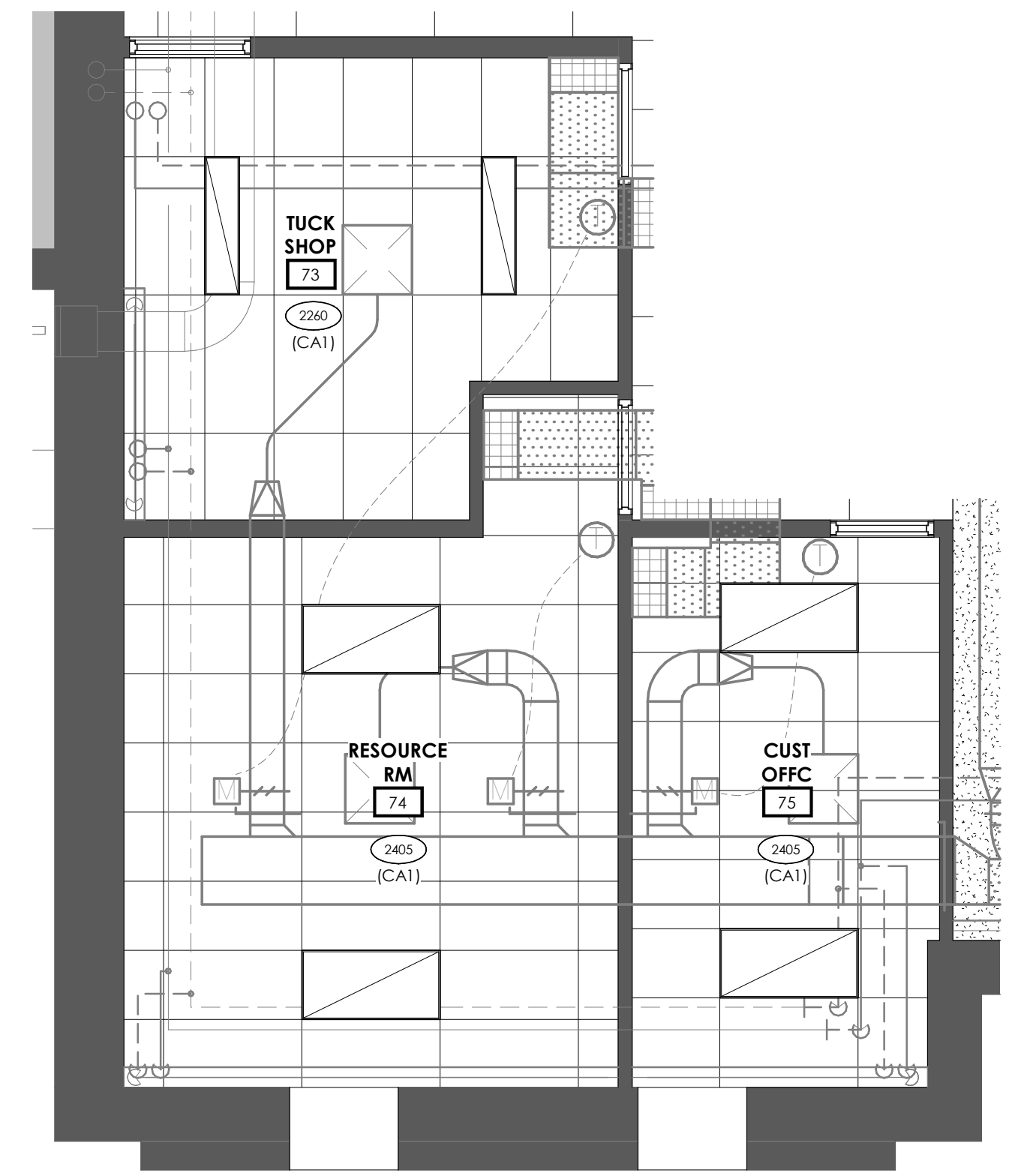
GLOSS LEVEL	FINISH TYPE	GLOSS @ 60°	SHEEN @ 85°
LEVEL G1	MATTE	MAX. 5 UNITS	MAX. 10 UNITS
LEVEL G2	VELVET	MAX. 10 UNITS	10 - 35 UNITS
LEVEL G3	EGSHELL	10 - 25 UNITS	10 - 35 UNITS
LEVEL G4	SATIN	20 - 35 UNITS	MIN. 35 UNITS
LEVEL G5	SEMI-GLOSS	35 - 70 UNITS	-
LEVEL G6	TRADITIONAL GLOSS	70 - 85 UNITS	-
LEVEL G7	HIGH GLOSS	MIN. 85 UNITS	-

- FINISH MATERIAL SPECIFICATIONS**
- PAINT**
 - PT-1** (GENERAL WALL & CEILING COLOUR) BENJAMIN MOORE CC-20, DECORATOR'S WHITE *EGGSHELL FINISH ON WALL APPLICATIONS (GLOSS LEVEL G3) **FLAT FINISH AT CEILING APPLICATIONS (GLOSS LEVEL G1) ***BENJAMIN MOORE PRE-CATALYZED WATERBORNE EPOXY (OR APPROVED ALTERNATE BY DULUX OR SHERWIN WILLIAMS)
 - PT-2** (DOORS & TRIM) DULUX OONN 07/000, DEEP ONYX *SATIN FINISH AT TRIM APPLICATIONS (GLOSS LEVEL G4) **BENJAMIN MOORE PRE-CATALYZED WATERBORNE EPOXY (OR APPROVED ALTERNATE BY DULUX OR SHERWIN WILLIAMS)
 - MELAMINE**
 - MEL-1** (MILLWORK) UNIBOARD, TR COLOUR: 992, HARDROCK MAPLE FINISH: DOLOMITE *VERTICAL GRAIN INSTALLATION ** PROVIDE EDGE-BANDING TO MATCH
 - CEILING TILE**
 - ACT-1** ARSITRONG CORTEGA SQUARE LAY-IN SIZE: 610mm x 1220mm COLOUR: WHITE GRID: 15/16"

- FINISH PLAN NOTES**
- REFER TO DRAWING FOR FLOORING INSTALL DIRECTION.
 - TRANSITION STRIPS REQUIRED ANYWHERE WHERE TWO DIFFERENT FLOORING MATERIALS MEET. CONTRACTOR TO COORDINATE APPROPRIATE PRODUCT/PROFILE WITH DESIGNER BEFORE ORDERING. UNLESS NOTED OTHERWISE, ALL TRANSITIONS TO OCCUR AT CENTERLINE OF DOOR FRAME.
 - PROVIDE SAMPLES OF ALL FINISHES FOR APPROVAL PRIOR TO INSTALLATION.
 - ALTERNATIVES TO BE SUBMITTED TO DESIGNER FOR REVIEW AND APPROVAL BEFORE ORDERING.
 - DOORS AND FRAMES TO BE PAINTED PT-2 (GLOSS LEVEL G4).
 - ALL EXPOSED CEILINGS, DRYWALL CEILINGS AND BULKHEADS TO BE PAINTED PT-1 (GLOSS LEVEL G1), UNLESS NOTED OTHERWISE.
 - ALL COLUMNS AND WALLS TO BE PAINTED PT-1 (GLOSS LEVEL G3), UNLESS NOTED OTHERWISE.
 - ALL EXISTING WINDOW SILLS TO BE PAINTED PT-1 (GLOSS LEVEL G3), UNLESS NOTED OTHERWISE.

- RCP LEGEND**
- 2450 CEILING HEIGHT TAG
 - POT LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
 - SUSPENDED PENDANT LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
 - WALL MOUNTED LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
 - 410x410 AND 610x1220 RECESSED FLUORESCENT LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
 - SUSPENDED LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
 - SUPPLY AIR DIFFUSERS (REFER TO MECHANICAL DWGS.)
 - EXHAUST FAN (REFER TO MECHANICAL DWGS.)
 - RETURN AIR GRILLE (REFER TO MECHANICAL DWGS.)

- RCP NOTES**
- LIGHT FIXTURES ARE TO BE PLACED IN THE CENTRE OF THE SUSPENDED CEILING TILE, GYPSUM BOARD CEILING OR BULKHEAD UNLESS NOTED OTHERWISE.
 - EMERGENCY AND EXIT SIGNS NOT SHOWN. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS AND MOUNTING HEIGHTS. NOTIFY ARCHITECT AND/OR DESIGNER OF ANY CONFLICTS.
 - REFER TO ELECTRICAL DRAWINGS FOR FULL SCOPE OF ELECTRICAL DEVICES AND SPECIFICATIONS. NOTIFY THE ARCHITECT AND/OR DESIGNER OF ANY FOUND DISCREPANCIES AND/OR CONFLICTS.
 - REFER TO MECHANICAL DRAWINGS FOR FULL SCOPE OF MECHANICAL DEVICES AND SPECIFICATIONS. NOTIFY THE ARCHITECT AND/OR DESIGNER OF ANY FOUND DISCREPANCIES AND/OR CONFLICTS.
 - LIGHT FIXTURES AND MECHANICAL DUCTWORK/DIFFUSERS/RETURN AIR GRILLES/EQUIPMENT ARE SHOWN FOR COORDINATION PURPOSES ONLY. NOT ALL FIXTURES MAY BE INDICATED ON THIS PLAN. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPREHENSIVE SCHEDULING OF FIXTURES, DEVICES AND EQUIPMENT/QUANTITY/MOUNTING HEIGHTS/ETC.
 - REFER TO ARCHITECT AND/OR DESIGNER DRAWINGS FOR DIMENSIONAL LOCATION OF CEILING FIXTURES. REFER TO ENGINEERING DRAWINGS FOR SPECIFICATIONS. LOCATION FOR FIXTURES IN CEILING TO BE LAID OUT AND APPROVED ON SITE BY DESIGNER PRIOR TO INSTALLATION.
 - WHEREVER EXISTING FIXTURES ARE DAMAGED OR IN POOR WORKING ORDER, CONTRACTOR TO ALLOW FOR REPLACEMENT WITH NEW FIXTURES TO MATCH EXISTING.
 - REFER TO ENGINEERING DRAWING FOR LIFE SAFETY SYSTEMS.
 - LOCATE DIFFUSERS/GRILLES AND LIGHT FIXTURES WITHIN GRID LINES. CENTRE SPRINKLER HEADS, SPEAKERS, RECESSED FIXTURES, AND SIMILAR CEILING ELEMENTS IN ACOUSTICAL UNITS AND DRYWALL TO CREATE ALIGNMENT, UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO CROSS REFERENCE BETWEEN ARCHITECT AND/OR DESIGNER'S ELECTRICAL DRAWINGS, ENGINEER'S ELECTRICAL DRAWINGS, ENGINEER'S MECHANICAL DRAWINGS AND SITE CONDITIONS. REPORT DISCREPANCIES TO THE ARCHITECT AND/OR DESIGNER FOR CLARIFICATION.
 - CONTRACTOR TO PROVIDE OPENINGS IN DRYWALL CEILING TO ACCOMMODATE EXIT LIGHTS, ACCESS PANELS TO MECHANICAL BOTH NEW AND BASE BUILDING EQUIPMENT. RECESSED DOWN LIGHT AND AIR DIFFUSERS. CONTRACTOR TO REFER TO REFLECTED CEILING PLAN AND ENGINEERING DRAWINGS AND SPECIFICATIONS.
 - ALL POT LIGHTS AND ACCENT LIGHTS TO BE ON DIMMERS UNLESS NOTED OTHERWISE. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION.
 - CONTRACTOR TO PROVIDE AIR TRANSFER DUCTS IN ACCORDANCE ABOVE SUSPENDED CEILING TO U/S OF SLAB.
 - WITH MECHANICAL DRAWINGS WHERE CONSTRUCTION OCCURS
 - UPON COMPLETION OF CONSTRUCTION, CONTRACTOR TO RETURN UNUSED BASE BUILDING FIXTURES TO BUILDING LANDLORD.
 - ALL EXPOSED DUCTWORK TO BE PAINTED, UNLESS NOTED OTHERWISE. REFER TO FINISHES PLAN FOR PAINT COLOUR.



2 ROOMS 73, 74, & 75 REFLECTED CEILING PLAN

1:50

ISSUED FOR BUILDING PERMIT	2024.03.26
CHRONOLOGY	DATE



PROJECT NAME
**COURTLAND PUBLIC SCHOOL
 HVAC UPGRADES**
 107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

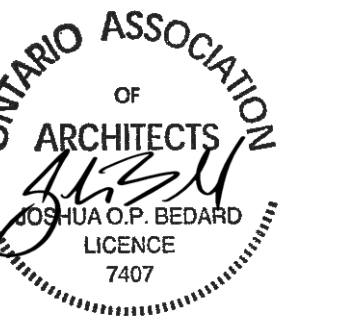
DRAWING TITLE
**ROOMS 73, 74, & 75
 FINISHES & REFLECTED
 CEILING PLANS**

SCALE	DRAWING NUMBER
As indicated	
SHEET SIZE	PROJECT NUMBER
24X36	2023-125

A2.02

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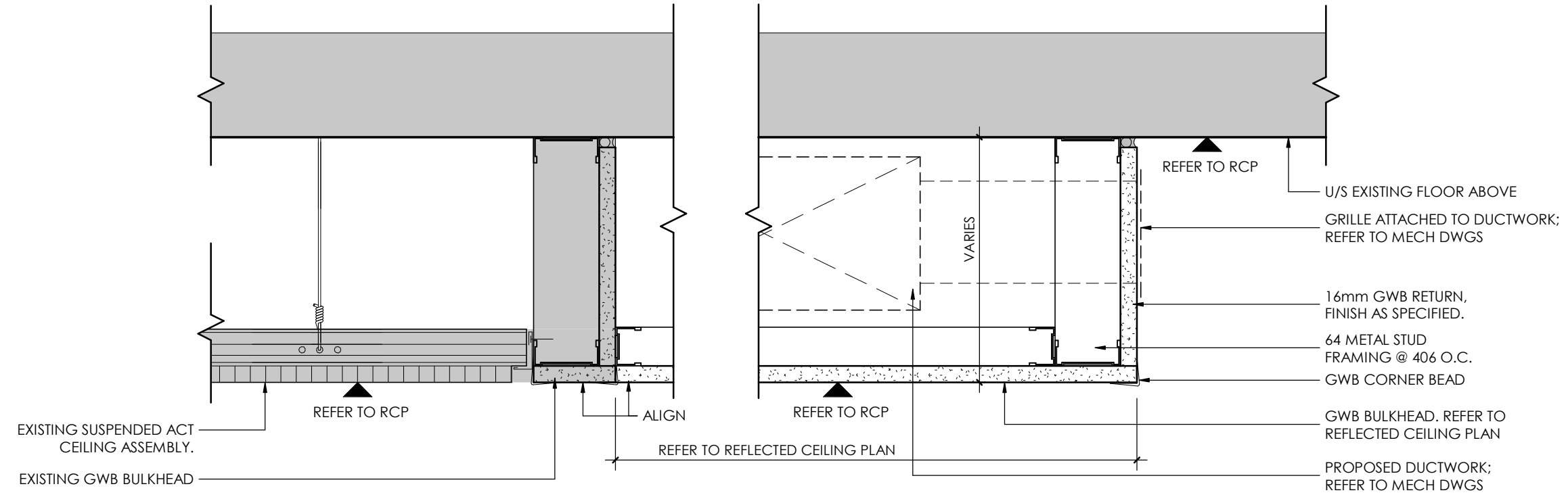
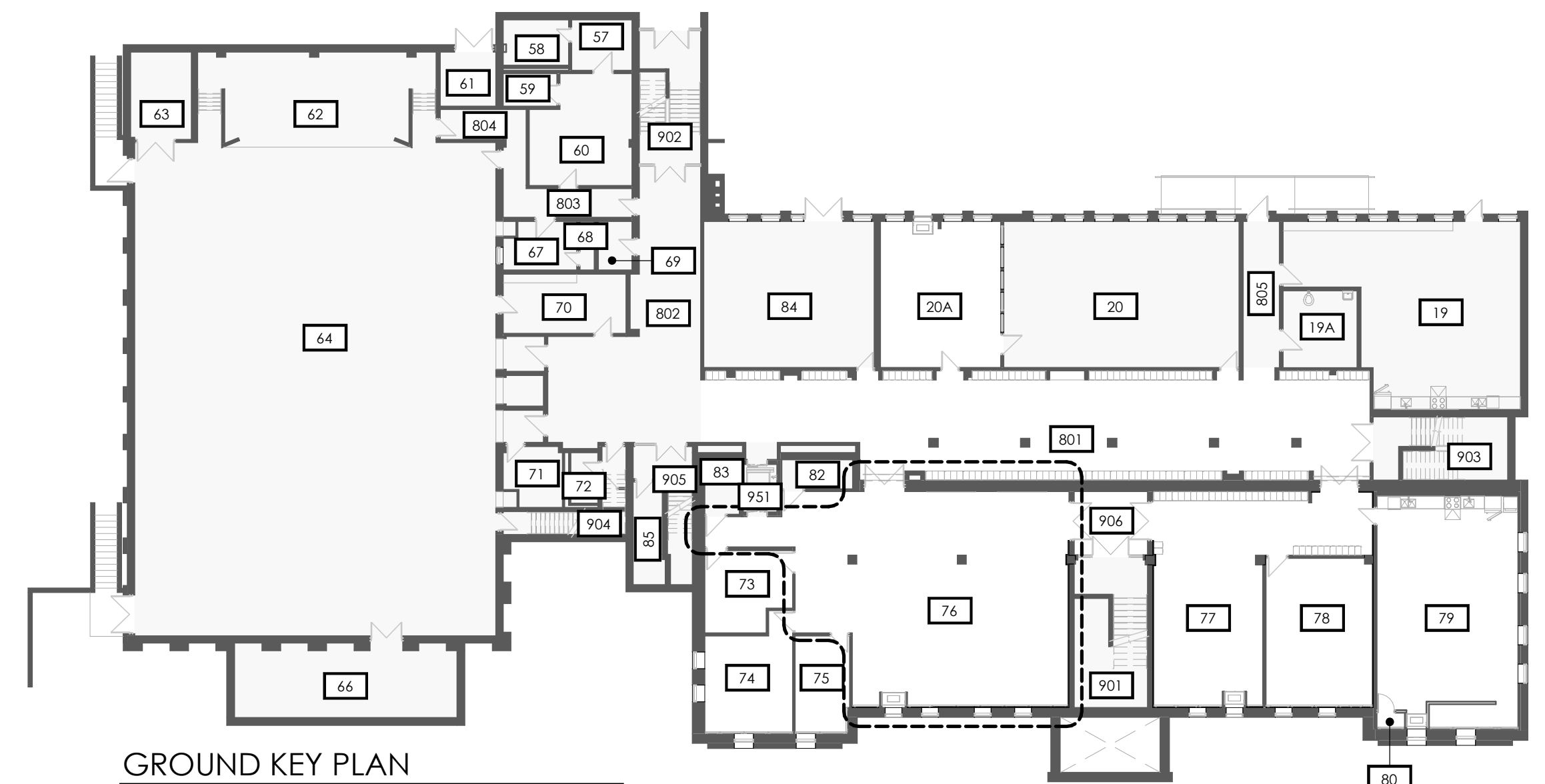
ISSUED FOR BUILDING PERMIT		2024.02.26
CHRONOLOGY		DATE



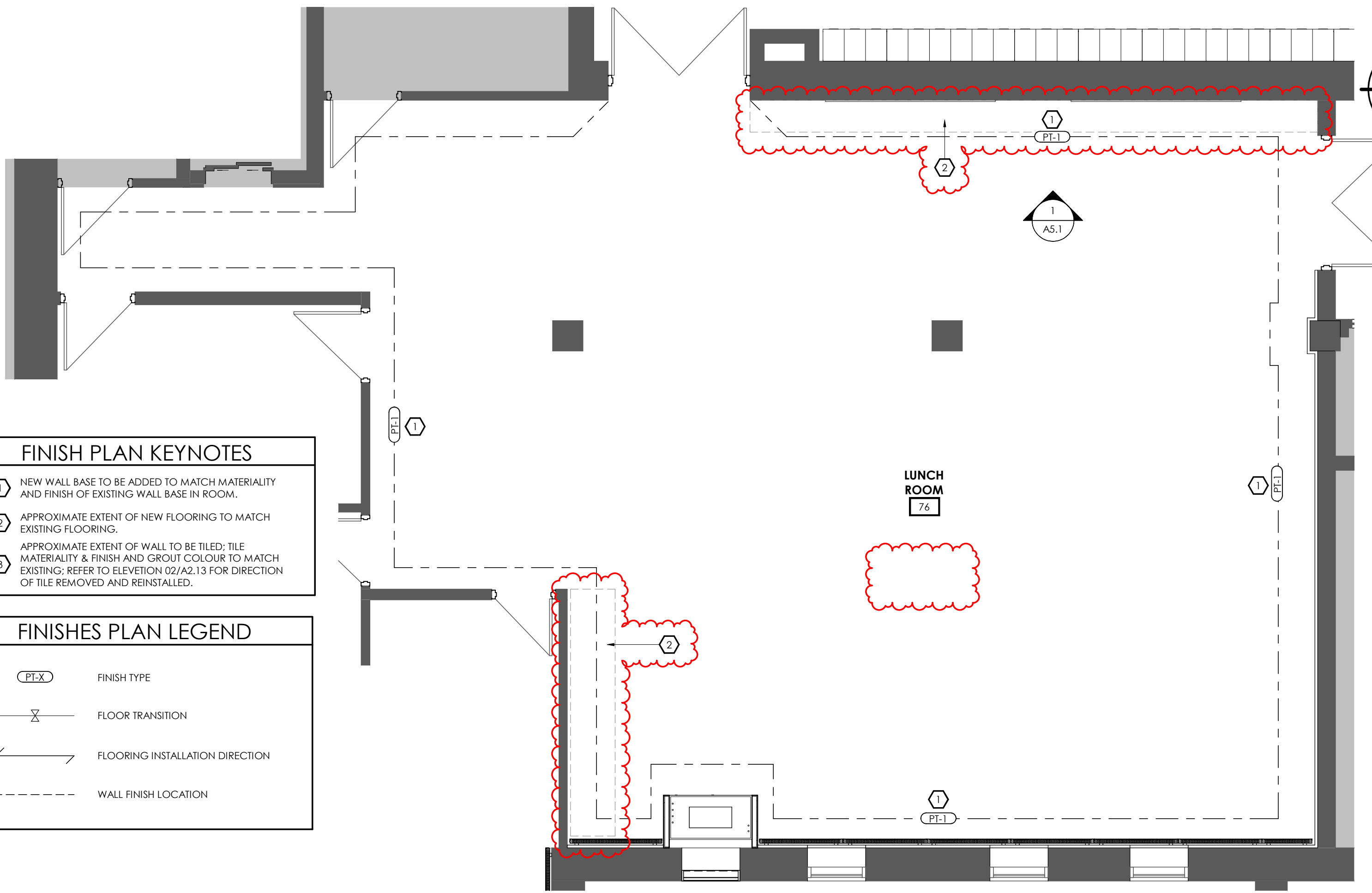
PROJECT NAME
COURTLAND PUBLIC SCHOOL HVAC UPGRADE
 107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

DRAWING TITLE
ROOMS 76 FINISHES & REFLECTED CEILING PLANS

SCALE: As indicated
 SHEET SIZE: 24x36
 PROJECT NUMBER: 2023-125
A2.04



4 TYP. GYP BD BULKHEAD DETAIL
 A2.04 1:5



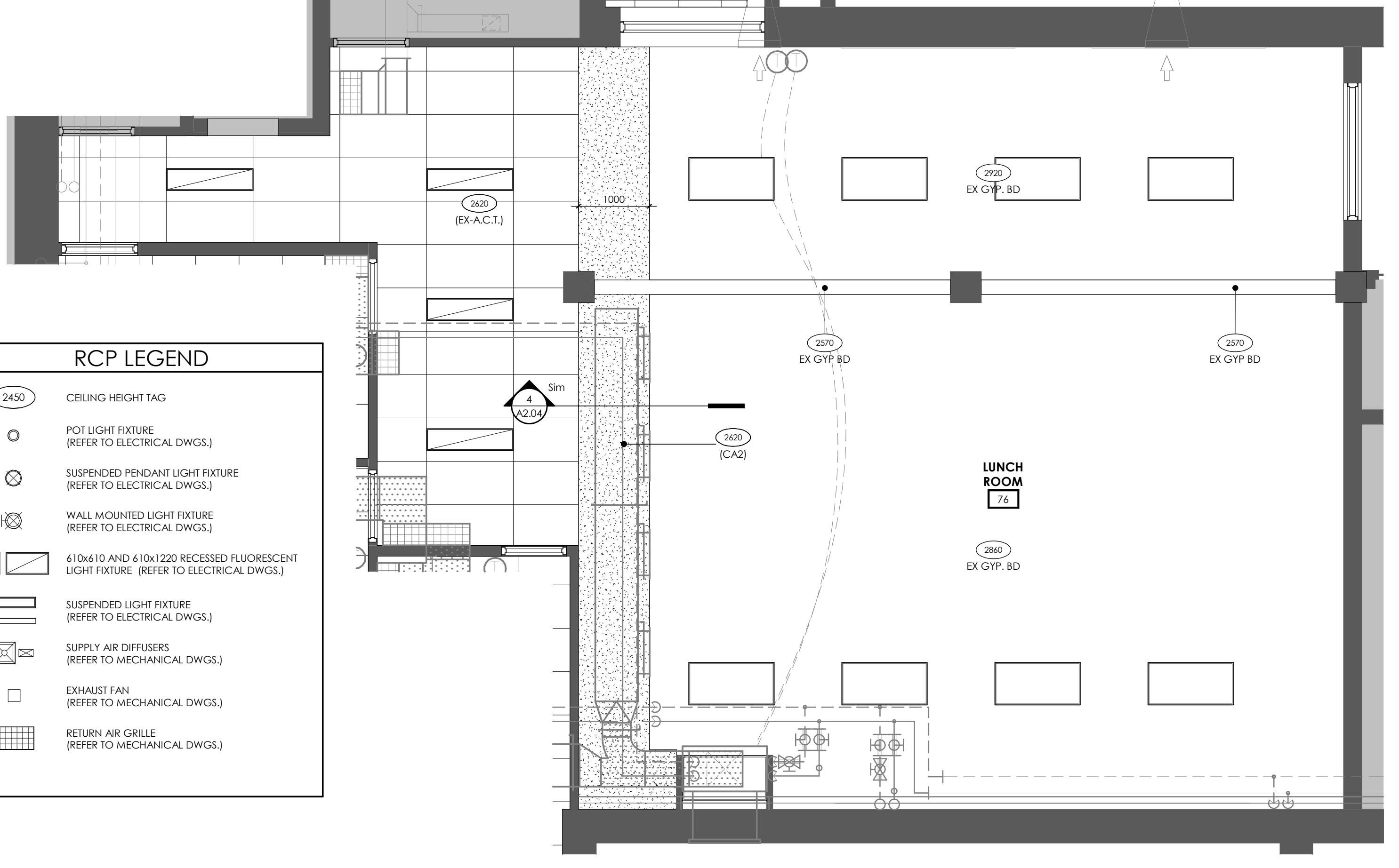
FINISH PLAN KEYNOTES

- 1 NEW WALL BASE TO BE ADDED TO MATCH MATERIALITY AND FINISH OF EXISTING WALL BASE IN ROOM.
- 2 APPROXIMATE EXTENT OF NEW FLOORING TO MATCH EXISTING FLOORING.
- 3 APPROXIMATE EXTENT OF WALL TO BE TILED: TILE MATERIALITY & FINISH AND GROUT COLOUR TO MATCH EXISTING; REFER TO ELEVATION 02/A2.13 FOR DIRECTION OF TILE REMOVED AND REINSTALLED.

FINISHES PLAN LEGEND

- PT-X FINISH TYPE
- FLOOR TRANSITION
- FLOORING INSTALLATION DIRECTION
- WALL FINISH LOCATION

2 ROOM 76 FINISHES PLAN
 A2.04 1:50



RCP LEGEND

- 2450 CEILING HEIGHT TAG
- POT LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- SUSPENDED PENDANT LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- WALL MOUNTED LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- 610x610 AND 610x1220 RECESSED FLUORESCENT LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- SUSPENDED LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- SUPPLY AIR DIFFUSERS (REFER TO MECHANICAL DWGS.)
- EXHAUST FAN (REFER TO MECHANICAL DWGS.)
- RETURN AIR GRILLE (REFER TO MECHANICAL DWGS.)

1 ROOM 76 REFLECTED CEILING PLAN
 A2.04 1:50

FINISH PLAN NOTES

- REFER TO DRAWING FOR FLOORING INSTALL DIRECTION.
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- ALTERNATIVES TO BE SUBMITTED TO DESIGNER FOR REVIEW AND APPROVAL BEFORE ORDERING.
- DOORS AND FRAMES TO BE PAINT PT-2 (GLOSS LEVEL G-4).
- ALL EXPOSED CEILINGS, DRYWALL CEILINGS AND BULKHEADS TO BE PAINTED PT-1 (GLOSS LEVEL G-1), UNLESS NOTED OTHERWISE.
- ALL COLUMNS AND WALLS TO BE PAINTED PT-1 (GLOSS LEVEL G-3), UNLESS NOTED OTHERWISE.
- ALL EXISTING WINDOW SILLS TO BE PAINTED PT-1 (GLOSS LEVEL G-3), UNLESS NOTED OTHERWISE.

DRYWALL FINISH LEGEND

FINISH	DESCRIPTION	KEY NOTE
LEVEL 0	UNFINISHED	NO TAPE REQUIRED
LEVEL 1	TAPE AND JOINT COMPOUND	-
LEVEL 2	UNFINISHED OR TILE FINISH ONLY	-
LEVEL 3	HEAVYWEIGHT FINISHES ONLY	-
LEVEL 4	LIGHTWEIGHT FINISHES ONLY	CLASSIC DRYWALL FINISH
LEVEL 5	FLAT, SEMI-GLOSS, GLOSS FINISHES	HIGHEST POSSIBLE FINISH

PAINT GLOSS LEVEL LEGEND

GLOSS LEVEL	FINISH TYPE	GLOSS @ 60°	SHEEN @ 85°
LEVEL G1	MATTE	MAX. 5 UNITS	MAX. 10 UNITS
LEVEL G2	VELVET	MAX. 10 UNITS	10 - 35 UNITS
LEVEL G3	EGSHELL	10 - 25 UNITS	10 - 35 UNITS
LEVEL G4	SATIN	20 - 35 UNITS	MIN. 35 UNITS
LEVEL G5	SEMI-GLOSS	35 - 70 UNITS	-
LEVEL G6	TRADITIONAL GLOSS	70 - 85 UNITS	-
LEVEL G7	HIGH GLOSS	MIN. 85 UNITS	-

FINISH MATERIAL SPECIFICATIONS

PAINT

- PT-1 (GENERAL WALL & CEILING COLOUR) BENJAMIN MOORE CC-20, DECORATOR'S WHITE *EGSHELL FINISH ON WALL APPLICATIONS (GLOSS LEVEL G3) **FLAT FINISH AT CEILING APPLICATIONS (GLOSS LEVEL G1) ***BENJAMIN MOORE PRE-CATALYZED WATERBORNE EPOXY (OR APPROVED ALTERNATE BY DULUX OR SHERWIN WILLIAMS)
- PT-2 (DOORS & TRIM) DULUX OONN 07/000, DEEP ONYX *SATIN FINISH AT TRIM APPLICATIONS (GLOSS LEVEL G4) **BENJAMIN MOORE PRE-CATALYZED WATERBORNE EPOXY (OR APPROVED ALTERNATE BY DULUX OR SHERWIN WILLIAMS)

MELAMINE

- MEL-1 (MILLWORK) UNIBOARD, TFL COLOUR: 992, HARDROCK MAPLE FINISH: DOLOMITE **VERTICAL GRAIN INSTALLATION ***PROVIDE EDGEBANDING TO MATCH

CEILING TILE

- ACT-1 ACT-1 ARS/ATROHG CORTEGA SQUARE LAY-IN SIZE: 610mm x 1220mm COLOUR: WHITE GRID: 15/16"

CEILING ASSEMBLIES

CA1 CEILING ASSEMBLY CA1

- PRE-ENGINEERED ACOUSTIC TILE CEILING SUSPENSION SYSTEM
- 610 X 1220 ACOUSTIC TILE

NOTE:
 1. REFER TO FINISHES MATERIAL SPECIFICATIONS, ACT-1 FOR ACOUSTIC TILE SIZE, COLOUR, AND STYLE.

CA2 CEILING ASSEMBLY CA2

- PRE-ENGINEERED GYPSUM BOARD CEILING SUSPENSION SYSTEM
- 13 GYPSUM BOARD

NOTE:
 1. REFER TO FINISHES MATERIAL SPECIFICATIONS, ACT-1 FOR ACOUSTIC TILE SIZE, COLOUR, AND STYLE.

BLKH1 BULKHEAD ASSEMBLY BLKH1

- 13 GYPSUM BOARD TO U/S OF EXISTING CEILING
- 64 METAL STUDS @ 406 O.C./ PROVIDE BRACING AS REQUIRED

NOTE:
 1. REFER TO FINISH SCHEDULE PT-1 FOR PAINT FINISH
 2. U/S OF BULKHEAD ELEVATION IS TO MATCH ADJACENT CEILING ASSEMBLY UNLESS NOTED OTHERWISE

RCP NOTES

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- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR TO RETURN UNUSED BASE BUILDING FIXTURES TO BUILDING LANDLORD.
- ALL EXPOSED DUCTWORK TO BE PAINTED. UNLESS NOTED OTHERWISE, REFER TO FINISHES PLAN FOR PAINT COLOUR.

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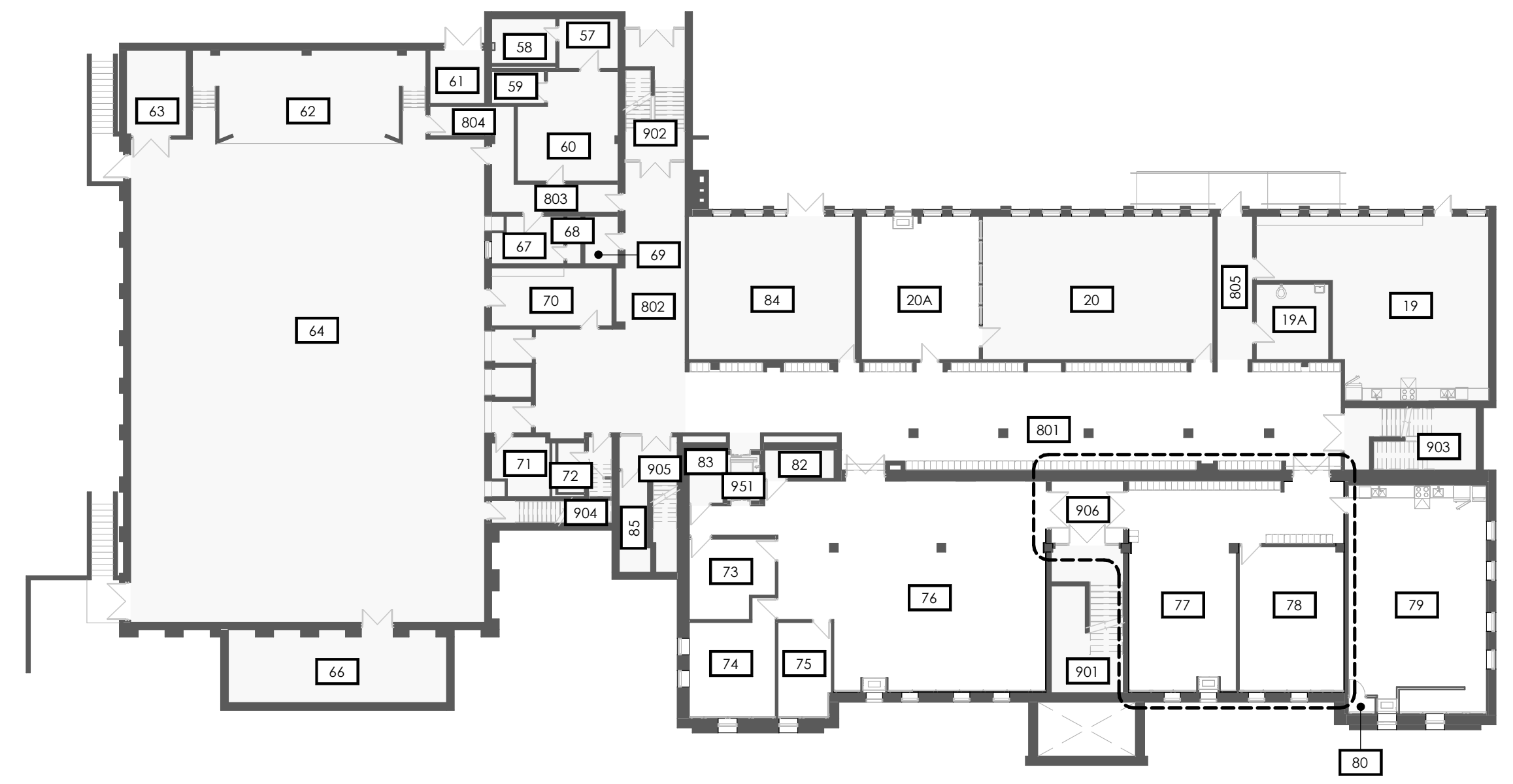
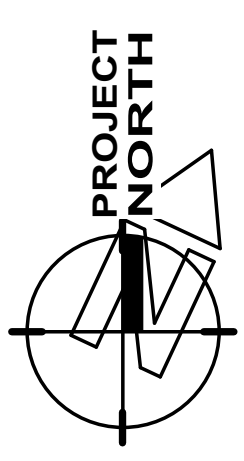


**COURTLAND PUBLIC SCHOOL
HVAC UPGRADE**
107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

**ROOMS 77, 78, &
VESTIBULE FINISHES &
REFLECTED CEILING PLANS**

SCALE	DRAWING NUMBER
As indicated	A2.06

SHEET SIZE
24X36
PROJECT NUMBER
2023-125



GROUND KEY PLAN

CEILING ASSEMBLIES

- CA1** **CEILING ASSEMBLY CA1**
- PRE-ENGINEERED ACOUSTIC TILE CEILING SUSPENSION SYSTEM
- 610 X 1220 ACOUSTIC TILE
- NOTE:**
1. REFER TO FINISHES MATERIAL SPECIFICATIONS, ACT-1 FOR ACOUSTIC TILE SIZE, COLOUR, AND STYLE.
- CA2** **CEILING ASSEMBLY CA2**
- PRE-ENGINEERED GYPSUM BOARD CEILING SUSPENSION SYSTEM
- 13 GYPSUM BOARD
- NOTE:**
1. REFER TO FINISHES MATERIAL SPECIFICATIONS, ACT-1 FOR ACOUSTIC TILE SIZE, COLOUR, AND STYLE.
- BLKHD** **BULKHEAD ASSEMBLY BLKHD1**
- 13 GYPSUM BOARD TO U/S OF EXISTING CEILING
- 64 METAL STUDS @ 406 O.C./ PROVIDE BRACING AS REQUIRED
- NOTE:**
1. REFER TO FINISH SCHEDULE PT-1 FOR PAINT FINISH
2. U/S OF BULKHEAD ELEVATION IS TO MATCH ADJACENT CEILING ASSEMBLY UNLESS NOTED OTHERWISE

FINISHES PLAN LEGEND

- (PT-X) FINISH TYPE
- /— FLOOR TRANSITION
- /— FLOORING INSTALLATION DIRECTION
- - - - - WALL FINISH LOCATION

FINISH PLAN NOTES

- REFER TO DRAWING FOR FLOORING INSTALL DIRECTION.
- TRANSITION STRIPS REQUIRED ANYWHERE WHERE TWO DIFFERENT FLOORING MATERIALS MEET. CONTRACTOR TO COORDINATE APPROPRIATE PRODUCT/PROFILE WITH DESIGNER BEFORE ORDERING, UNLESS NOTED OTHERWISE. ALL TRANSITIONS TO OCCUR AT CENTERLINE OF DOOR FRAME.
- PROVIDE SAMPLES OF ALL FINISHES FOR APPROVAL PRIOR TO INSTALLATION.
- ALTERNATIVES TO BE SUBMITTED TO DESIGNER FOR REVIEW AND APPROVAL BEFORE ORDERING.
- DOORS AND FRAMES TO BE PT-2 (GLOSS LEVEL G4).
- ALL EXPOSED CEILINGS, DRYWALL CEILINGS AND BULKHEADS TO BE PAINTED PT-1 (GLOSS LEVEL G1), UNLESS NOTED OTHERWISE.
- ALL COLUMNS AND WALLS TO BE PAINTED PT-1 (GLOSS LEVEL G3), UNLESS NOTED OTHERWISE.
- ALL EXISTING WINDOW SILLS TO BE PAINTED PT-1 (GLOSS LEVEL G3), UNLESS NOTED OTHERWISE.

RCP LEGEND

- (2450) CEILING HEIGHT TAG
- POT LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- ⊗ SUSPENDED PENDANT LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- ⊗ WALL MOUNTED LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- ⊗ 610x610 AND 610x1220 RECESSED FLUORESCENT LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- ▭ SUSPENDED LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- ⊗ SUPPLY AIR DIFFUSERS (REFER TO MECHANICAL DWGS.)
- EXHAUST FAN (REFER TO MECHANICAL DWGS.)
- ⊗ RETURN AIR GRILLE (REFER TO MECHANICAL DWGS.)

RCP NOTES

- LIGHT FIXTURES ARE TO BE PLACED IN THE CENTRE OF THE SUSPENDED CEILING TILE, GYPSUM BOARD CEILING OR BULKHEAD UNLESS NOTED OTHERWISE.
- EMERGENCY AND EXIT SIGNS NOT SHOWN. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS AND MOUNTING HEIGHTS. NOTIFY ARCHITECT AND/OR DESIGNER OF ANY CONFLICTS.
- REFER TO ELECTRICAL DRAWINGS FOR FULL SCOPE OF ELECTRICAL DEVICES AND SPECIFICATIONS. NOTIFY THE ARCHITECT AND/OR DESIGNER OF ANY FOUND DISCREPANCIES AND/OR CONFLICTS.
- REFER TO MECHANICAL DRAWINGS FOR FULL SCOPE OF MECHANICAL DEVICES AND SPECIFICATIONS. NOTIFY THE ARCHITECT AND/OR DESIGNER OF ANY FOUND DISCREPANCIES AND/OR CONFLICTS.
- LIGHT FIXTURES AND MECHANICAL DUCTWORK/DIFFUSERS/RETURN AIR GRILLES/EQUIPMENT ARE SHOWN FOR COORDINATION PURPOSES ONLY. NOT ALL FIXTURES MAY BE INDICATED ON THIS PLAN. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPREHENSIVE SCHEDULING OF FIXTURES, DEVICES AND EQUIPMENT/QUANTITY/MOUNTING HEIGHTS/ETC.
- REFER TO ARCHITECT AND/OR DESIGNER DRAWINGS FOR DIMENSIONAL LOCATION OF CEILING FIXTURES. REFER TO ENGINEERING DRAWINGS FOR SPECIFICATIONS. LOCATION FOR FIXTURES IN CEILING TO BE LAID OUT AND APPROVED ON SITE BY DESIGNER PRIOR TO INSTALLATION.
- WHEREVER EXISTING FIXTURES ARE DAMAGED OR IN POOR WORKING ORDER, CONTRACTOR TO ALLOW FOR REPLACEMENT WITH NEW FIXTURES TO MATCH EXISTING.
- REFER TO ENGINEERING DRAWING FOR LIFE SAFETY SYSTEMS.
- LOCATE DIFFUSERS/GRILLES AND LIGHT FIXTURES WITHIN GRID LINES. CENTRE SPRINKLER HEADS, SPEAKERS, RECESSED FIXTURES, AND SIMILAR CEILING ELEMENTS IN ACOUSTICAL UNITS AND DRYWALL TO CREATE ALIGNMENT, UNLESS NOTED OTHERWISE.
- CONTRACTOR TO CROSS REFERENCE BETWEEN ARCHITECT AND/OR DESIGNER'S ELECTRICAL DRAWINGS, ENGINEER'S ELECTRICAL DRAWINGS, ENGINEER'S MECHANICAL DRAWINGS AND SITE CONDITIONS. REPORT DISCREPANCIES TO THE ARCHITECT AND/OR DESIGNER FOR CLARIFICATION.
- CONTRACTOR TO PROVIDE OPENINGS IN DRYWALL CEILING TO ACCOMMODATE EXIT LIGHTS, ACCESS PANELS TO MECHANICAL BOTH NEW AND BASE BUILDING EQUIPMENT, RECESSED DOWN LIGHT AND AIR DIFFUSERS. CONTRACTOR TO REFER TO REFLECTED CEILING PLAN AND ENGINEERING DRAWINGS AND SPECIFICATIONS.
- ALL POT LIGHTS AND ACCENT LIGHTS TO BE ON DIMMERS UNLESS NOTED OTHERWISE. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION.
- CONTRACTOR TO PROVIDE AIR TRANSFER DUCTS IN ACCORDANCE WITH MECHANICAL DRAWINGS WHERE CONSTRUCTION OCCURS ABOVE SUSPENDED CEILING TO U/S OF SLAB.
- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR TO RETURN UNUSED BASE BUILDING FIXTURES TO BUILDING LANDLORD.
- ALL EXPOSED DUCTWORK TO BE PAINTED. UNLESS NOTED OTHERWISE, REFER TO FINISHES PLAN FOR PAINT COLOUR.

DRYWALL FINISH LEGEND

LEVEL	DESCRIPTION	KEY NOTE
LEVEL 0	UNFINISHED	NO TAPE REQUIRED
LEVEL 1	TAPE AND JOINT COMPOUND	-
LEVEL 2	UNFINISHED OR TILE FINISH ONLY	-
LEVEL 3	HEAVYWEIGHT FINISHES ONLY	-
LEVEL 4	LIGHTWEIGHT FINISHES ONLY	CLASSIC DRYWALL FINISH
LEVEL 5	FLAT, SEMI-GLOSS, GLOSS FINISHES	HIGHEST POSSIBLE FINISH

PAINT GLOSS LEVEL LEGEND

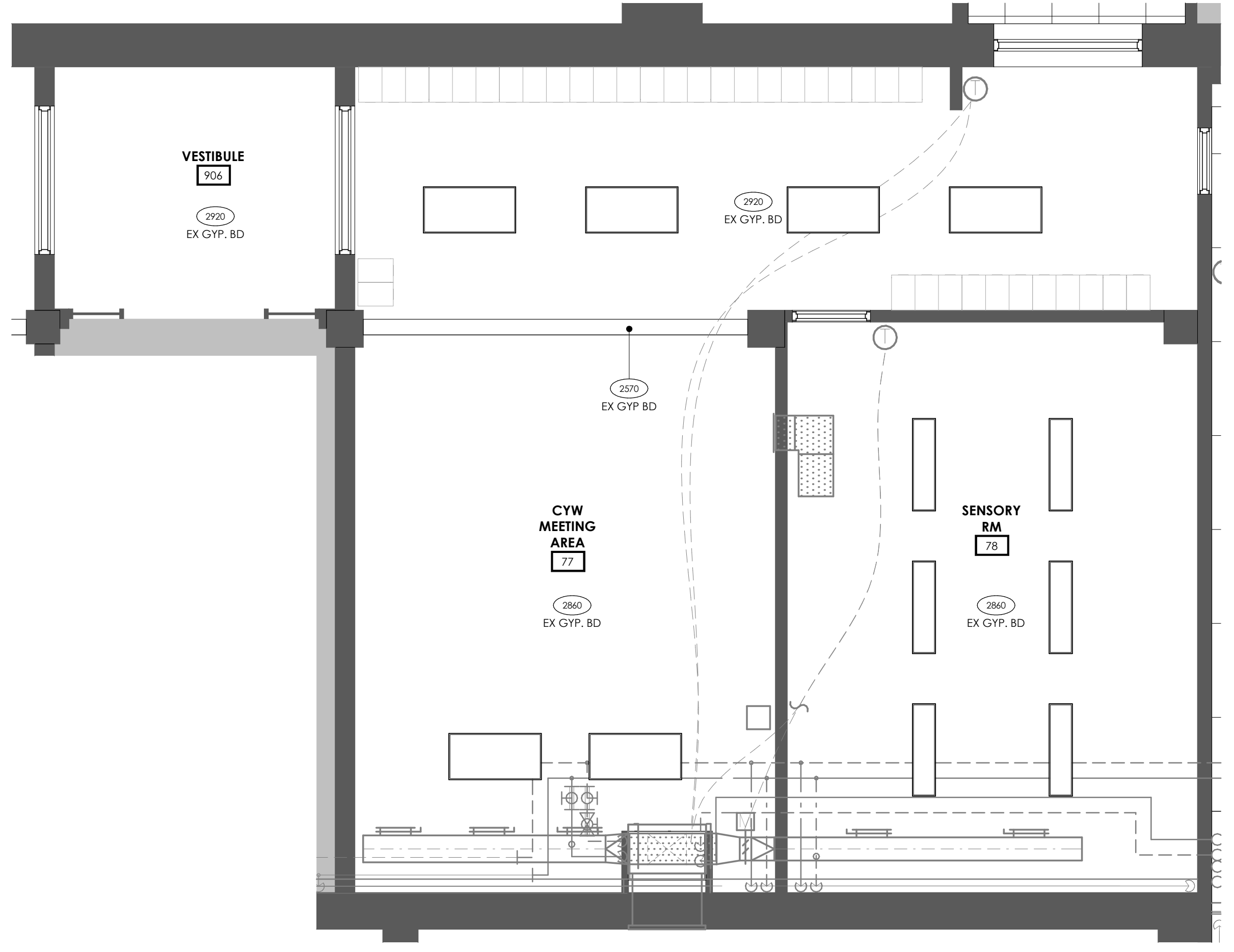
GLOSS LEVEL	FINISH TYPE	GLOSS @ 60°	SHEEN @ 85°
LEVEL G1	MATTE	MAX. 5 UNITS	MAX. 10 UNITS
LEVEL G2	VELVET	MAX. 10 UNITS	10 - 35 UNITS
LEVEL G3	EGSHELL	10 - 25 UNITS	10 - 35 UNITS
LEVEL G4	SATIN	20 - 35 UNITS	MIN. 35 UNITS
LEVEL G5	SEMI-GLOSS	35 - 70 UNITS	-
LEVEL G6	TRADITIONAL GLOSS	70 - 85 UNITS	-
LEVEL G7	HIGH GLOSS	MIN. 85 UNITS	-

FINISH MATERIAL SPECIFICATIONS

- PAINT**
- (PT-1) PT-1 (GENERAL WALL & CEILING COLOUR)
BENJAMIN MOORE
CC-20, DECORATOR'S WHITE
*EGSHELL FINISH ON WALL APPLICATIONS (GLOSS LEVEL G3)
**FLAT FINISH AT CEILING APPLICATIONS (GLOSS LEVEL G1)
***BENJAMIN MOORE PRE-CATALYZED WATERBORNE EPOXY (OR APPROVED ALTERNATE BY DULUX OR SHERWIN WILLIAMS)
- (PT-2) PT-2 (DOORS & TRIM)
DULUX
OONN 07/000, DEEP ONYX
*SATIN FINISH AT TRIM APPLICATIONS (GLOSS LEVEL G4)
**BENJAMIN MOORE PRE-CATALYZED WATERBORNE EPOXY (OR APPROVED ALTERNATE BY DULUX OR SHERWIN WILLIAMS)
- MELAMINE**
- (MEL-1) MEL-1 (MILKWORK)
UNIBOARD, TRL
COLOUR: 992, HARDROCK MAPLE
FINISH: DOLOMITE
*VERTICAL GRAIN INSTALLATION
** PROVIDE EDGEBANDING TO MATCH
- CEILING TILE**
- (ACT-1) ACT-1
ARSTRONG
CORTEGA SQUARE LAY-IN
SIZE: 610mm x 1220mm
COLOUR: WHITE
GRID: 151/6"

- FINISH PLAN KEYNOTES**
- NEW WALL BASE TO BE ADDED TO MATCH MATERIALITY AND FINISH OF EXISTING WALL BASE IN ROOM.
 - APPROXIMATE EXTENT OF NEW FLOORING TO MATCH EXISTING FLOORING.
 - APPROXIMATE EXTENT OF WALL TO BE TILED; TILE MATERIALITY & FINISH AND GROUT COLOUR TO MATCH EXISTING; REFER TO ELEVATION 02/A2.13 FOR DIRECTION OF TILE REMOVED AND REINSTALLED.

ROOMS 77, 78, & VESTIBULE FINISHES PLAN



ROOMS 77, 78, & VESTIBULE REFLECTED CEILING PLAN

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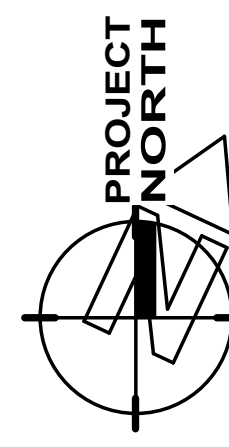
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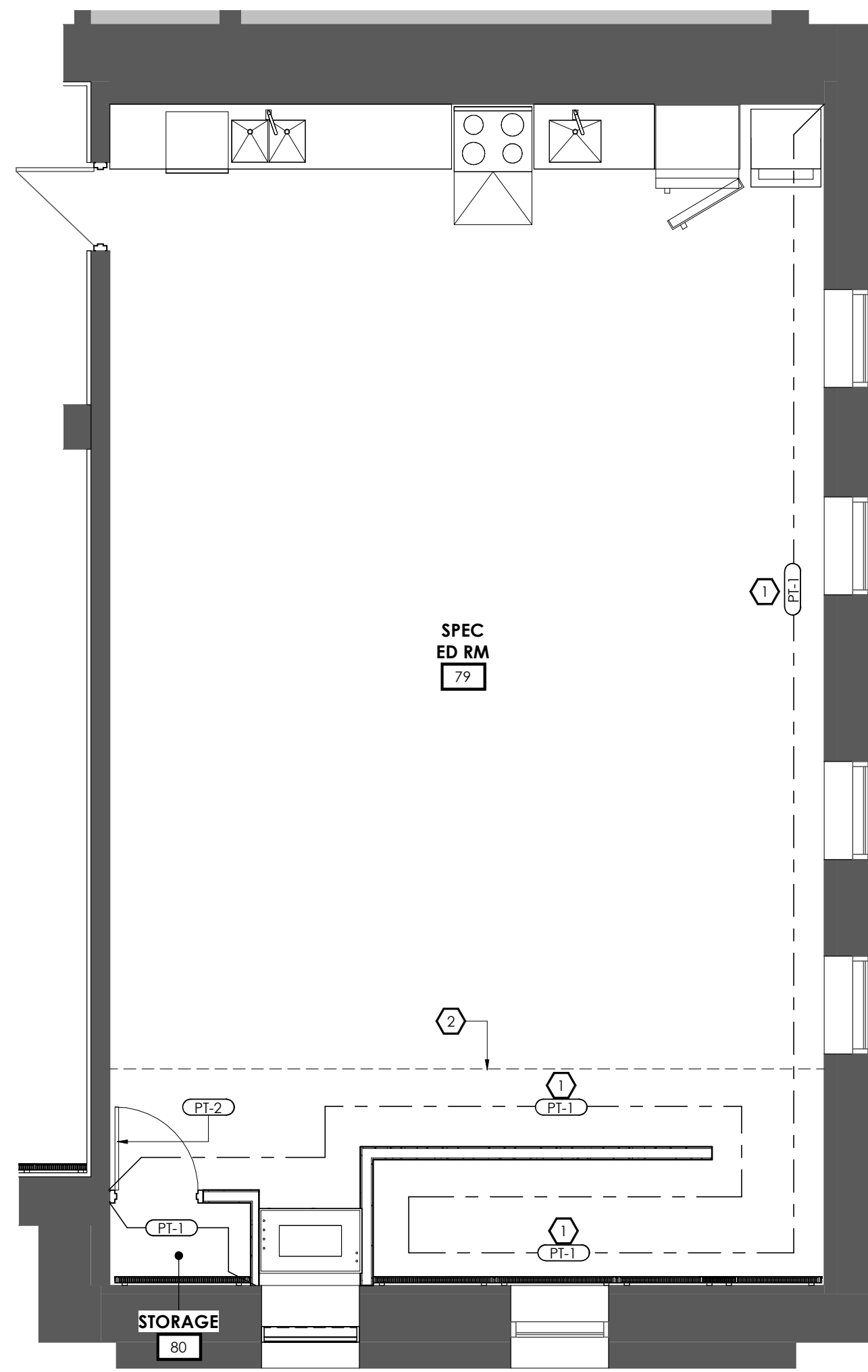
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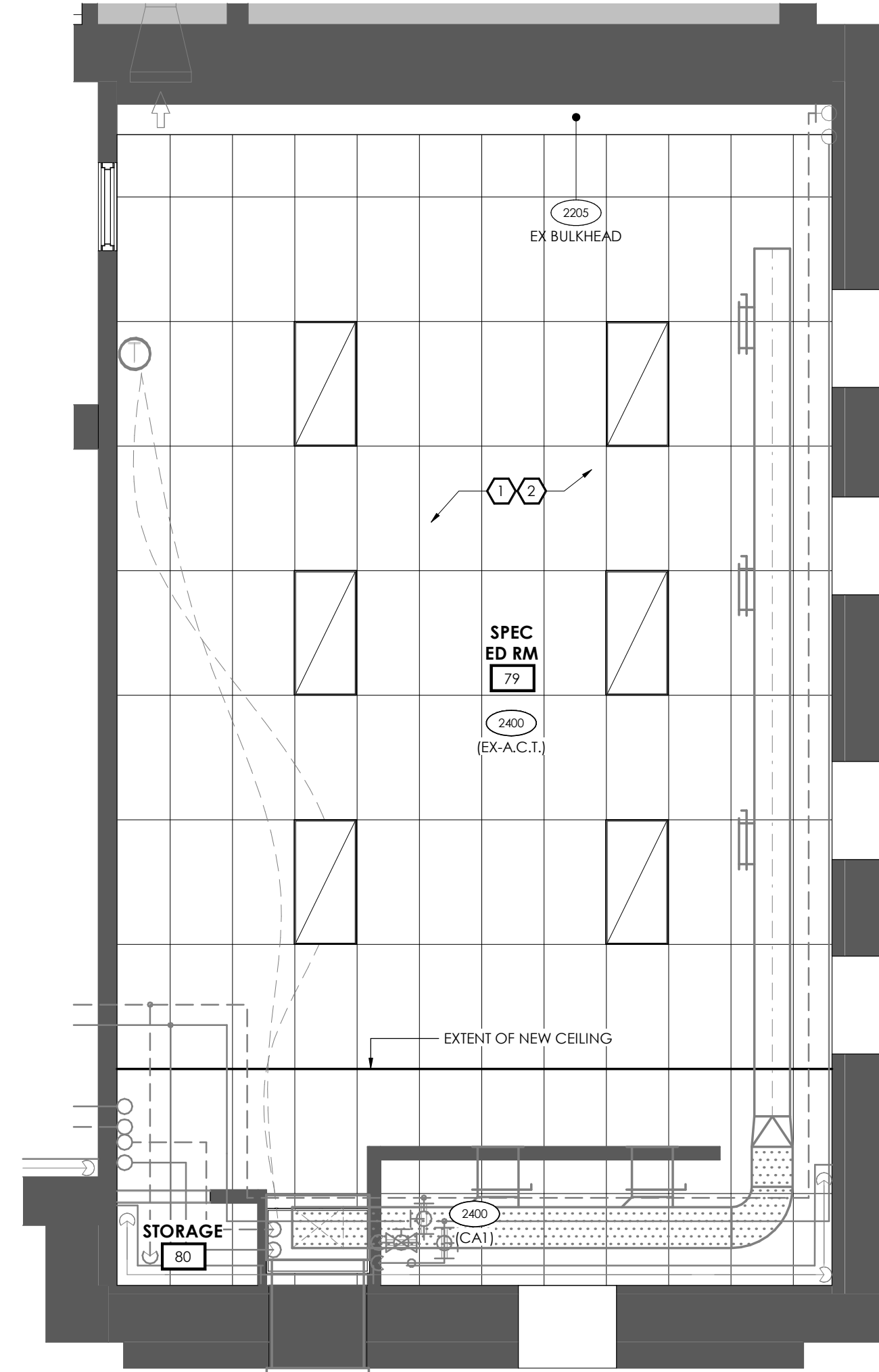
No.	REVISIONS	DATE



GROUND KEY PLAN



1 ROOMS 79 FINISHES PLAN
A2.08 1:50



2 ROOMS 79 REFLECTED CEILING PLAN
A2.08 1:50

FINISH PLAN KEYNOTES

- NEW WALL BASE TO BE ADDED TO MATCH MATERIALITY AND FINISH OF EXISTING WALL BASE IN ROOM.
- APPROXIMATE EXTENT OF NEW FLOORING TO MATCH EXISTING FLOORING.
- APPROXIMATE EXTENT OF WALL TO BE TILED; TILE MATERIALITY & FINISH AND GROUT COLOUR TO MATCH EXISTING; REFER TO ELEVATION (E242) FOR DIRECTION OF TILE REMOVED AND REINSTALLED.

RCP KEYNOTES

- EXISTING SUSPENDED ACOUSTIC CEILING GRID AND TILES TO REMAIN. REMOVE TILE AND DISASSEMBLE GRID TO FACILITATE INSTALLATION OF NEW MECHANICAL HVAC SYSTEM AS REQUIRED. STORE IN SECURE, DRY LOCATION FOR REINSTALLATION LATER. REFER TO MECH AND ELEC DWGS FOR SCOPE IN THIS ROOM.
- REINSTATE EXISTING CEILING GRID ASSEMBLY AND REINSTALL CEILING TILES UPON COMPLETION OF NEW MECHANICAL SCOPE. RE-WORK CEILING AS REQUIRED TO ACCOMMODATE NEW SHAFT WALL; REFER TO MECH AND ELEC DWGS

DRYWALL FINISH LEGEND

FINISH	DESCRIPTION	KEY NOTE
LEVEL 0	UNFINISHED	NO TAPE REQUIRED
LEVEL 1	TAPE AND JOINT COMPOUND	-
LEVEL 2	UNFINISHED OR TILE FINISH ONLY	-
LEVEL 3	HEAVYWEIGHT FINISHES ONLY	-
LEVEL 4	LIGHTWEIGHT FINISHES ONLY	CLASSIC DRYWALL FINISH
LEVEL 5	FLAT, SEMI-GLOSS, GLOSS FINISHES	HIGHEST POSSIBLE FINISH

PAINT GLOSS LEVEL LEGEND

GLOSS LEVEL	FINISH TYPE	GLOSS @ 60°	SHEEN @ 85°
LEVEL G1	MATTE	MAX. 5 UNITS	MAX. 10 UNITS
LEVEL G2	VELVET	MAX. 10 UNITS	10 - 35 UNITS
LEVEL G3	EGSHELL	10 - 25 UNITS	10 - 35 UNITS
LEVEL G4	SATIN	20 - 35 UNITS	MIN. 35 UNITS
LEVEL G5	SEMI-GLOSS	35 - 70 UNITS	-
LEVEL G6	TRADITIONAL GLOSS	70 - 85 UNITS	-
LEVEL G7	HIGH GLOSS	MIN. 85 UNITS	-

FINISH MATERIAL SPECIFICATIONS

PAINT

(PT-1) PT-1 (GENERAL WALL & CEILING COLOUR)
BENJAMIN MOORE
CC-20, DECORATOR'S WHITE
*EGSHELL FINISH ON WALL APPLICATIONS (GLOSS LEVEL G3)
**FLAT FINISH AT CEILING APPLICATIONS (GLOSS LEVEL G1)
**BENJAMIN MOORE PRE-CATALYZED WATERBORNE EPOXY (OR APPROVED ALTERNATE BY DULUX OR SHERWIN WILLIAMS)

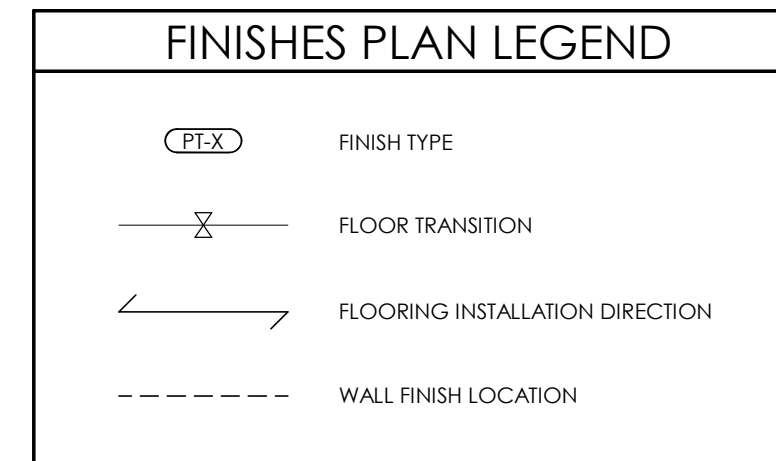
(PT-2) PT-2 (DOORS & TRIM)
DULUX
OONN 07/000, DEEP ONYX
*SATIN FINISH AT TRIM APPLICATIONS (GLOSS LEVEL G4)
**BENJAMIN MOORE PRE-CATALYZED WATERBORNE EPOXY (OR APPROVED ALTERNATE BY DULUX OR SHERWIN WILLIAMS)

MELAMINE

(MEL-1) MEL-1 (MILLWORK)
UNIBOARD, TIL
COLOUR: 992, HARDROCK MAPLE
FINISH: DOLOMITE
** VERTICAL GRAIN INSTALLATION
** PROVIDE EDGE-BANDING TO MATCH

CEILING TILE

(ACT-1) ACT-1
ARSHATROHG
CORTEGA SQUARE LAY-IN
SIZE: 610mm x 1220mm
COLOUR: WHITE
GRID: 1.5/1.6"



- ### FINISH PLAN NOTES
- REFER TO DRAWING FOR FLOORING INSTALL DIRECTION.
 - TRANSITION STRIPS REQUIRED ANYWHERE WHERE TWO DIFFERENT FLOORING MATERIALS MEET. CONTRACTOR TO COORDINATE APPROPRIATE PRODUCT/PROFILE WITH DESIGNER BEFORE ORDERING, UNLESS NOTED OTHERWISE. ALL TRANSITIONS TO OCCUR AT CENTERLINE OF DOOR FRAME.
 - PROVIDE SAMPLES OF ALL FINISHES FOR APPROVAL PRIOR TO INSTALLATION.
 - ALTERNATIVES TO BE SUBMITTED TO DESIGNER FOR REVIEW AND APPROVAL BEFORE ORDERING.
 - DOORS AND FRAMES TO BE PT-2 (GLOSS LEVEL G4).
 - ALL EXPOSED CEILINGS, DRYWALL CEILINGS AND BULKHEADS TO BE PAINTED PT-1 (GLOSS LEVEL G1), UNLESS NOTED OTHERWISE.
 - ALL COLUMNS AND WALLS TO BE PAINTED PT-1 (GLOSS LEVEL G3), UNLESS NOTED OTHERWISE.
 - ALL EXISTING WINDOW SILLS TO BE PAINTED PT-1 (GLOSS LEVEL G3), UNLESS NOTED OTHERWISE.

CEILING ASSEMBLIES

(CAL) CEILING ASSEMBLY CA1

- PRE-ENGINEERED ACOUSTIC TILE CEILING SUSPENSION SYSTEM
- 610 X 1220 ACOUSTIC TILE

NOTE:
1. REFER TO FINISHES MATERIAL SPECIFICATIONS, ACT-1 FOR ACOUSTIC TILE SIZE, COLOUR, AND STYLE.

(CA2) CEILING ASSEMBLY CA2

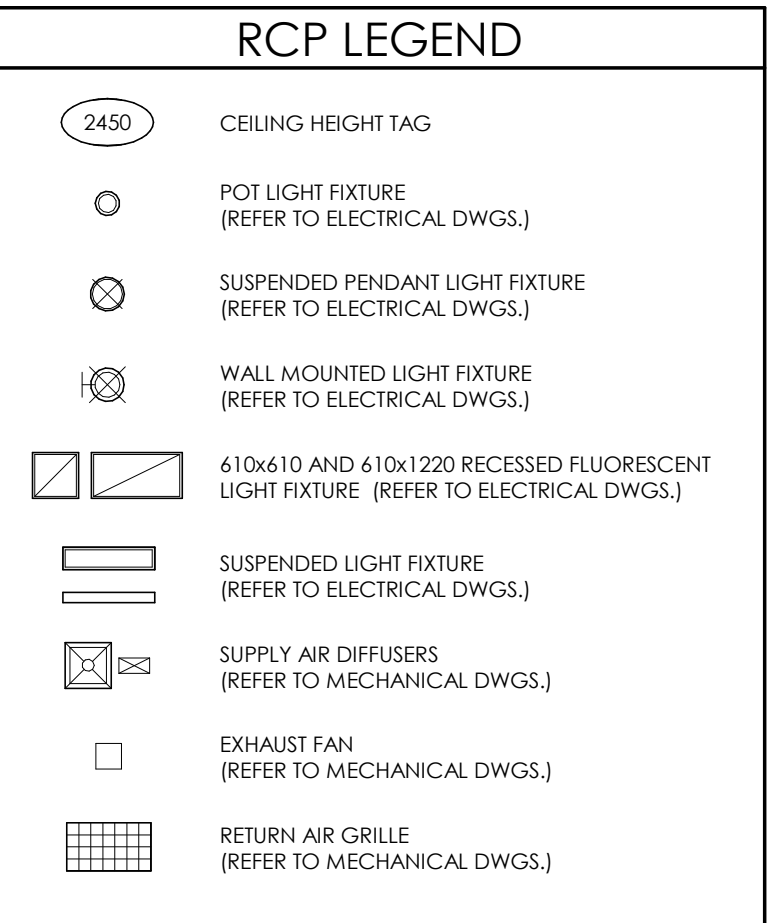
- PRE-ENGINEERED GYPSUM BOARD CEILING SUSPENSION SYSTEM
- 13 GYPSUM BOARD

NOTE:
1. REFER TO FINISHES MATERIAL SPECIFICATIONS, ACT-1 FOR ACOUSTIC TILE SIZE, COLOUR, AND STYLE.

(BLKHD) BULKHEAD ASSEMBLY BLKHD1

- 13 GYPSUM BOARD TO U/S OF EXISTING CEILING
- 64 METAL STUDS @ 406 O.C./ PROVIDE BRACING AS REQUIRED

NOTE:
1. REFER TO FINISH SCHEDULE PT-1 FOR PAINT FINISH
2. U/S OF BULKHEAD ELEVATION IS TO MATCH ADJACENT CEILING ASSEMBLY UNLESS NOTED OTHERWISE



- ### RCP NOTES
- LIGHT FIXTURES ARE TO BE PLACED IN THE CENTRE OF THE SUSPENDED CEILING TILE, GYPSUM BOARD CEILING OR BULKHEAD UNLESS NOTED OTHERWISE.
 - EMERGENCY AND EXIT SIGNS NOT SHOWN, REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS AND MOUNTING HEIGHTS, NOTIFY ARCHITECT AND/OR DESIGNER OF ANY CONFLICTS.
 - REFER TO ELECTRICAL DRAWINGS FOR FULL SCOPE OF ELECTRICAL DEVICES AND SPECIFICATIONS, NOTIFY THE ARCHITECT AND/OR DESIGNER OF ANY FOUND DISCREPANCIES AND/OR CONFLICTS.
 - REFER TO MECHANICAL DRAWINGS FOR FULL SCOPE OF MECHANICAL DEVICES AND SPECIFICATIONS, NOTIFY THE ARCHITECT AND/OR DESIGNER OF ANY FOUND DISCREPANCIES AND/OR CONFLICTS.
 - LIGHT FIXTURES AND MECHANICAL DUCTWORK/DIFFUSERS/RETURN AIR GRILLES/EQUIPMENT ARE SHOWN FOR COORDINATION PURPOSES ONLY. NOT ALL FIXTURES MAY BE INDICATED ON THIS PLAN. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPREHENSIVE SCHEDULING OF FIXTURES, DEVICES AND EQUIPMENT/QUANTITY/MOUNTING HEIGHTS/ETC.
 - REFER TO ARCHITECT AND/OR DESIGNER DRAWINGS FOR DIMENSIONAL LOCATION OF CEILING FIXTURES. REFER TO ENGINEERING DRAWINGS FOR SPECIFICATIONS. LOCATION FOR FIXTURES IN CEILING TO BE LAID OUT AND APPROVED ON SITE BY DESIGNER PRIOR TO INSTALLATION.
 - WHEREVER EXISTING FIXTURES ARE DAMAGED OR IN POOR WORKING ORDER, CONTRACTOR TO ALLOW FOR REPLACEMENT WITH NEW FIXTURES TO MATCH EXISTING.
 - REFER TO ENGINEERING DRAWING FOR LIFE SAFETY SYSTEMS.
 - LOCATE DIFFUSERS/GRILLES AND LIGHT FIXTURES WITHIN GRID LINES, CENTRE SPRINKLER HEADS, SPEAKERS, RECESSED FIXTURES, AND SIMILAR CEILING ELEMENTS IN ACOUSTICAL UNITS AND DRYWALL TO CREATE ALIGNMENT, UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO CROSS REFERENCE BETWEEN ARCHITECT AND/OR DESIGNER'S ELECTRICAL DRAWINGS, ENGINEER'S ELECTRICAL DRAWINGS, ENGINEER'S MECHANICAL DRAWINGS AND SITE CONDITIONS. REPORT DISCREPANCIES TO THE ARCHITECT AND/OR DESIGNER FOR CLARIFICATION.
 - CONTRACTOR TO PROVIDE OPENINGS IN DRYWALL CEILING TO ACCOMMODATE EXIT LIGHTS, ACCESS PANELS TO MECHANICAL BOTH NEW AND BASE BUILDING EQUIPMENT, RECESSED DOWN LIGHT AND AIR DIFFUSERS. CONTRACTOR TO REFER TO REFLECTED CEILING PLAN AND ENGINEERING DRAWINGS AND SPECIFICATIONS.
 - ALL POT LIGHTS AND ACCENT LIGHTS TO BE ON DIMMERS UNLESS NOTED OTHERWISE. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION.
 - CONTRACTOR TO PROVIDE AIR TRANSFER DUCTS IN ACCORDANCE WITH MECHANICAL DRAWINGS WHERE CONSTRUCTION OCCURS ABOVE SUSPENDED CEILING TO U/S OF SLAB.
 - UNUSED BASE BUILDING FIXTURES TO BUILDING LANDLORD.
 - ALL EXPOSED DUCTWORK TO BE PAINTED, UNLESS NOTED OTHERWISE. REFER TO FINISHES PLAN FOR PAINT COLOUR.

ISSUED FOR BUILDING PERMIT	2024.02.26
CHRONOLOGY	DATE



PROJECT NAME
**COURTLAND PUBLIC SCHOOL
HVAC UPGRADES**
107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

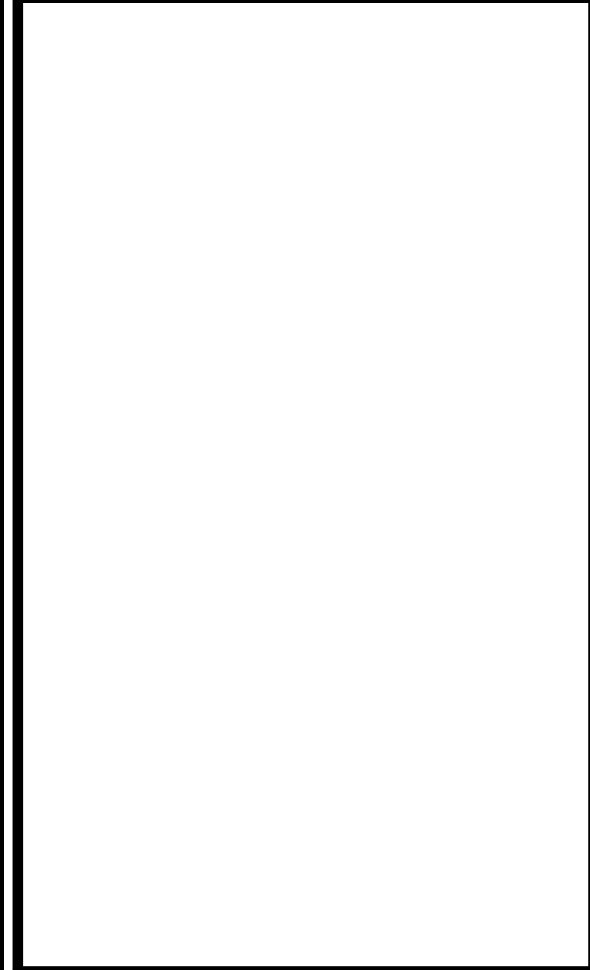
DRAWING TITLE
**ROOMS 79 FINISHES &
REFLECTED CEILING
PLANS**

SCALE As indicated	DRAWING NUMBER A2.08
SHEET SIZE 24X36	PROJECT NUMBER 2023-125

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DRAWINGS ARE NOT TO BE SCALED.



No.	REVISIONS	DATE
1	AMMENDMENT 01	2024.03.26



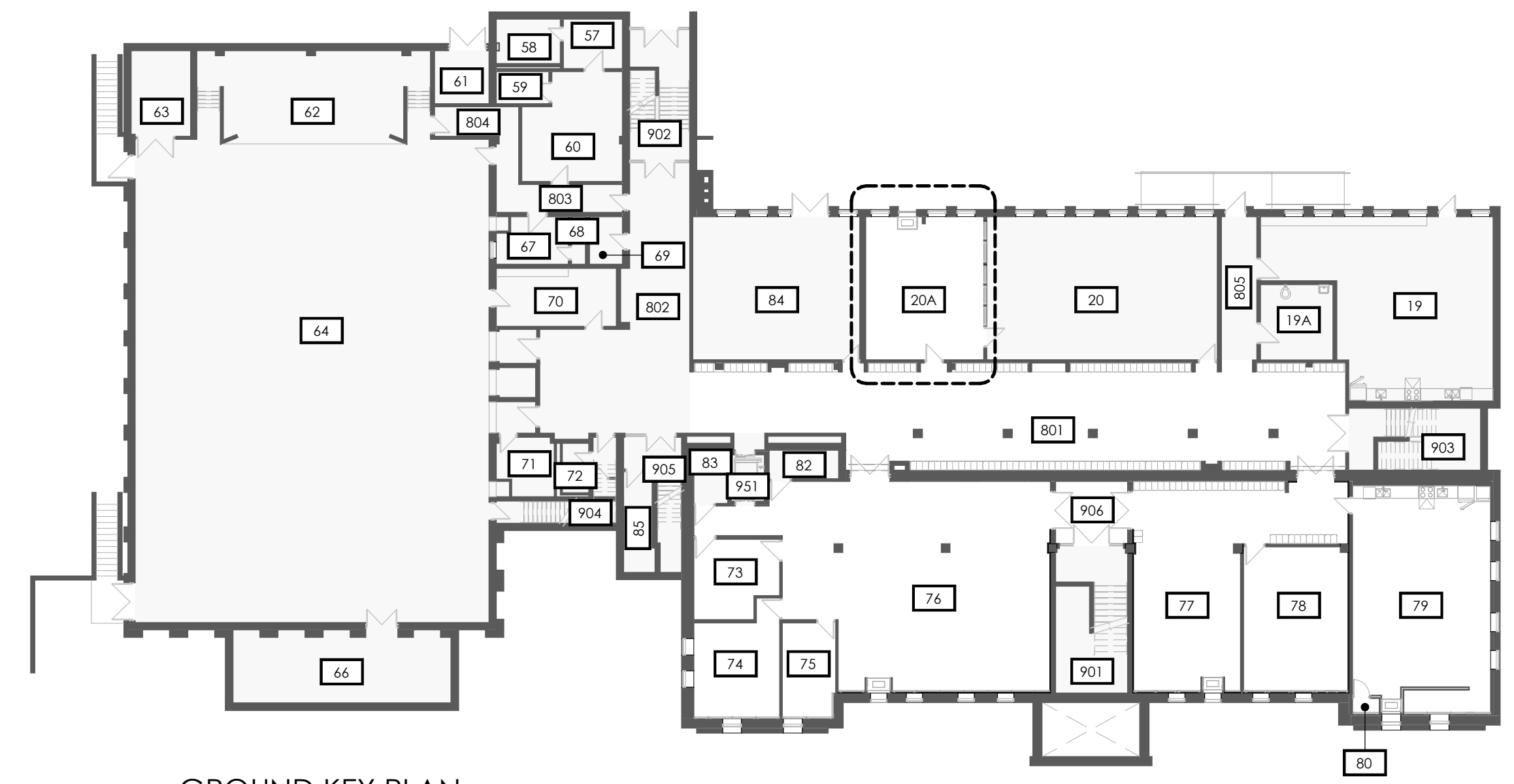
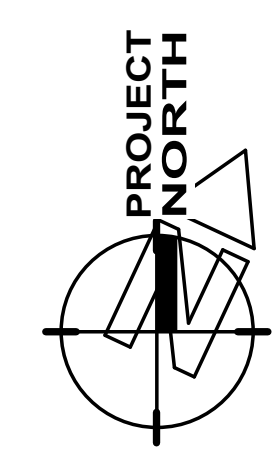
ISSUED FOR BUILDING PERMIT	2024.02.26
CHRONOLOGY	DATE



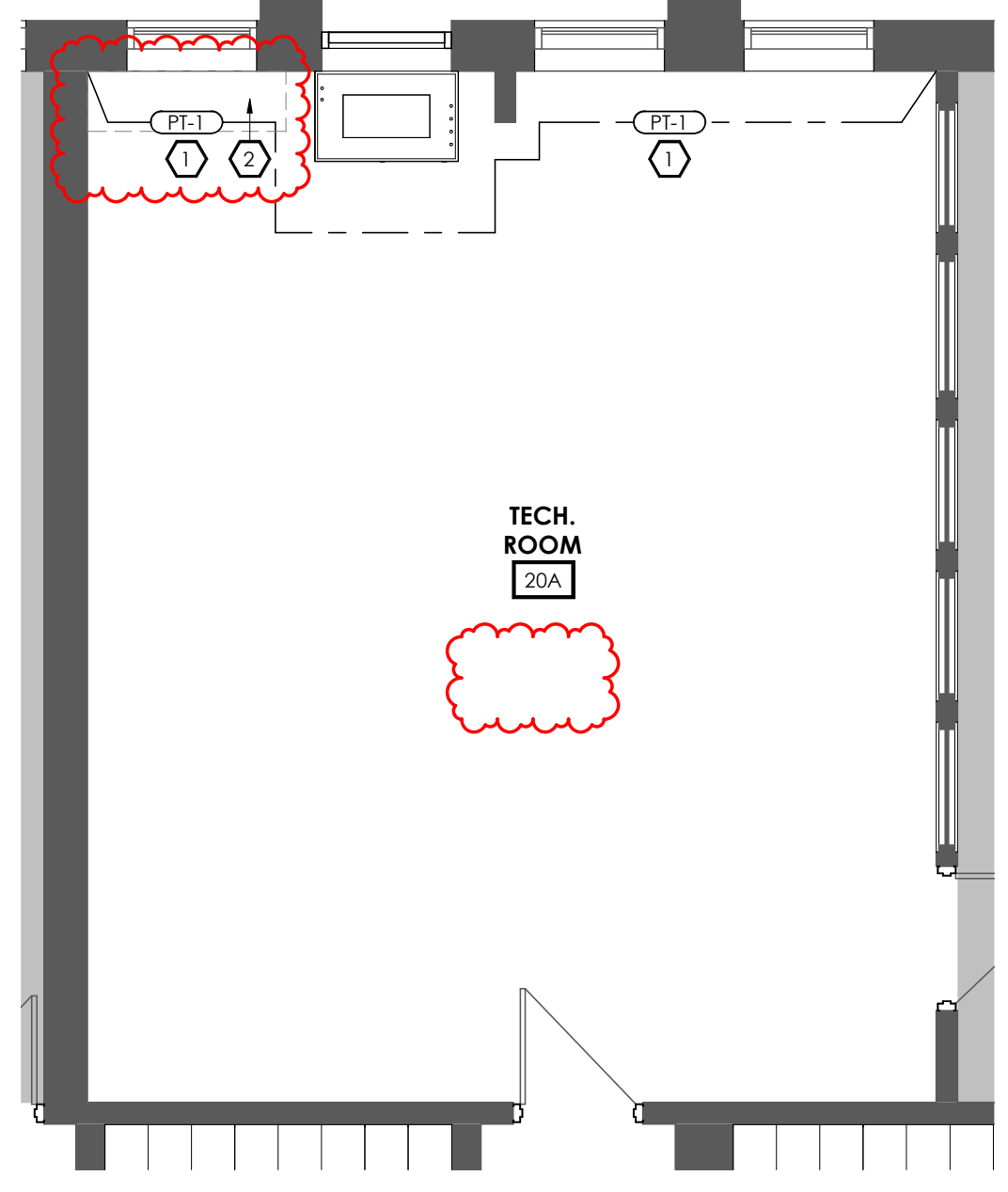
PROJECT NAME
**COURTLAND PUBLIC SCHOOL
HVAC UPGRADES**
107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

DRAWING TITLE
**TECH. ROOM 20A
FINISHES & REFLECTED
CEILING PLANS**

SCALE	As indicated
SHEET SIZE	24X36
PROJECT NUMBER	2023-125
DRAWING NUMBER	A2.10



GROUND KEY PLAN



1 TECH. ROOM 20A FINISHES PLAN

FINISH PLAN KEYNOTES

- NEW WALL BASE TO BE ADDED TO MATCH MATERIALITY AND FINISH OF EXISTING WALL BASE IN ROOM.
- APPROXIMATE EXTENT OF NEW FLOORING TO MATCH EXISTING FLOORING.
- APPROXIMATE EXTENT OF WALL TO BE TILED; TILE MATERIALITY & FINISH AND GROUT COLOUR TO MATCH EXISTING; REFER TO ELEVATION 02/A2.13 FOR DIRECTION OF TILE REMOVED AND REINSTALLED.

1:50

CEILING ASSEMBLIES

CA1 CEILING ASSEMBLY CA1

- PRE-ENGINEERED ACOUSTIC TILE CEILING SUSPENSION SYSTEM
- 610 X 1220 ACOUSTIC TILE

NOTE:
1. REFER TO FINISHES MATERIAL SPECIFICATIONS, ACT-1 FOR ACOUSTIC TILE SIZE, COLOUR, AND STYLE.

CA2 CEILING ASSEMBLY CA2

- PRE-ENGINEERED GYPSUM BOARD CEILING SUSPENSION SYSTEM
- 13 GYPSUM BOARD

NOTE:
1. REFER TO FINISHES MATERIAL SPECIFICATIONS, ACT-1 FOR ACOUSTIC TILE SIZE, COLOUR, AND STYLE.

BLKHD BULKHEAD ASSEMBLY BLKHD1

- 13 GYPSUM BOARD TO U/S OF EXISTING CEILING
- 64 METAL STUDS @ 406 O.C. / PROVIDE BRACING AS REQUIRED

NOTE:
1. REFER TO FINISH SCHEDULE PT-1 FOR PAINT FINISH
2. U/S OF BULKHEAD ELEVATION IS TO MATCH ADJACENT CEILING ASSEMBLY UNLESS NOTED OTHERWISE

FINISHES PLAN LEGEND

- PT-2 FINISH TYPE
- FLOOR TRANSITION
- FLOORING INSTALLATION DIRECTION
- WALL FINISH LOCATION

DRYWALL FINISH LEGEND

FINISH	DESCRIPTION	KEY NOTE
LEVEL 0	UNFINISHED	NO TAPE REQUIRED
LEVEL 1	TAPE AND JOINT COMPOUND	-
LEVEL 2	UNFINISHED OR TILE FINISH ONLY	-
LEVEL 3	HEAVYWEIGHT FINISHES ONLY	-
LEVEL 4	LIGHTWEIGHT FINISHES ONLY	CLASSIC DRYWALL FINISH
LEVEL 5	FLAT, SEMI-GLOSS, GLOSS FINISHES	HIGHEST POSSIBLE FINISH

- FINISH PLAN NOTES**
- REFER TO DRAWING FOR FLOORING INSTALL DIRECTION.
 - TRANSITION STRIPS REQUIRED ANYWHERE WHERE TWO DIFFERENT FLOORING MATERIALS MEET. CONTRACTOR TO COORDINATE APPROPRIATE PRODUCT/PROFILE WITH DESIGNER BEFORE ORDERING, UNLESS NOTED OTHERWISE. ALL TRANSITIONS TO OCCUR AT CENTERLINE OF DOOR FRAME.
 - PROVIDE SAMPLES OF ALL FINISHES FOR APPROVAL PRIOR TO INSTALLATION.
 - ALTERNATIVES TO BE SUBMITTED TO DESIGNER FOR REVIEW AND APPROVAL BEFORE ORDERING.
 - DOORS AND FRAMES TO BE PT-2 (GLOSS LEVEL G4).
 - ALL EXPOSED CEILINGS, DRYWALL CEILINGS AND BULKHEADS TO BE PAINTED PT-1 (GLOSS LEVEL G1), UNLESS NOTED OTHERWISE.
 - ALL COLUMNS AND WALLS TO BE PAINTED PT-1 (GLOSS LEVEL G3), UNLESS NOTED OTHERWISE.
 - ALL EXISTING WINDOW SILLS TO BE PAINTED PT-1 (GLOSS LEVEL G3), UNLESS NOTED OTHERWISE.

PAINT GLOSS LEVEL LEGEND

GLOSS LEVEL	FINISH TYPE	GLOSS @ 40°	SHEEN @ 85°
LEVEL G1	MATTE	MAX. 5 UNITS	MAX. 10 UNITS
LEVEL G2	VELVET	MAX. 10 UNITS	10 - 35 UNITS
LEVEL G3	EGSHELL	10 - 25 UNITS	10 - 35 UNITS
LEVEL G4	SATIN	20 - 35 UNITS	MIN. 35 UNITS
LEVEL G5	SEMI-GLOSS	35 - 70 UNITS	-
LEVEL G6	TRADITIONAL GLOSS	70 - 85 UNITS	-
LEVEL G7	HIGH GLOSS	MIN. 85 UNITS	-

FINISH MATERIAL SPECIFICATIONS

PAINT

PT-1 (GENERAL WALL & CEILING COLOUR)
BENJAMIN MOORE
CC-20, DECORATOR'S WHITE
*EGSHELL FINISH ON WALL APPLICATIONS (GLOSS LEVEL G3)
**FLAT FINISH AT CEILING APPLICATIONS (GLOSS LEVEL G1)
***BENJAMIN MOORE PRE-CATALYZED WATERBORNE EPOXY (OR APPROVED ALTERNATE BY DULUX OR SHERWIN WILLIAMS)

PT-2 (DOORS & TRIM)
DULUX
OONN 07/000, DEEP ONYX
*SATIN FINISH AT TRIM APPLICATIONS (GLOSS LEVEL G4)
**BENJAMIN MOORE PRE-CATALYZED WATERBORNE EPOXY (OR APPROVED ALTERNATE BY DULUX OR SHERWIN WILLIAMS)

MELAMINE

MEL-1 (MILLWORK)
UNIBOARD, TFL
COLOUR: W92 HARDROCK MAPLE
FINISH: DOLOMITE
*VERTICAL GRAIN INSTALLATION
** PROVIDE EDGEBANDING TO MATCH

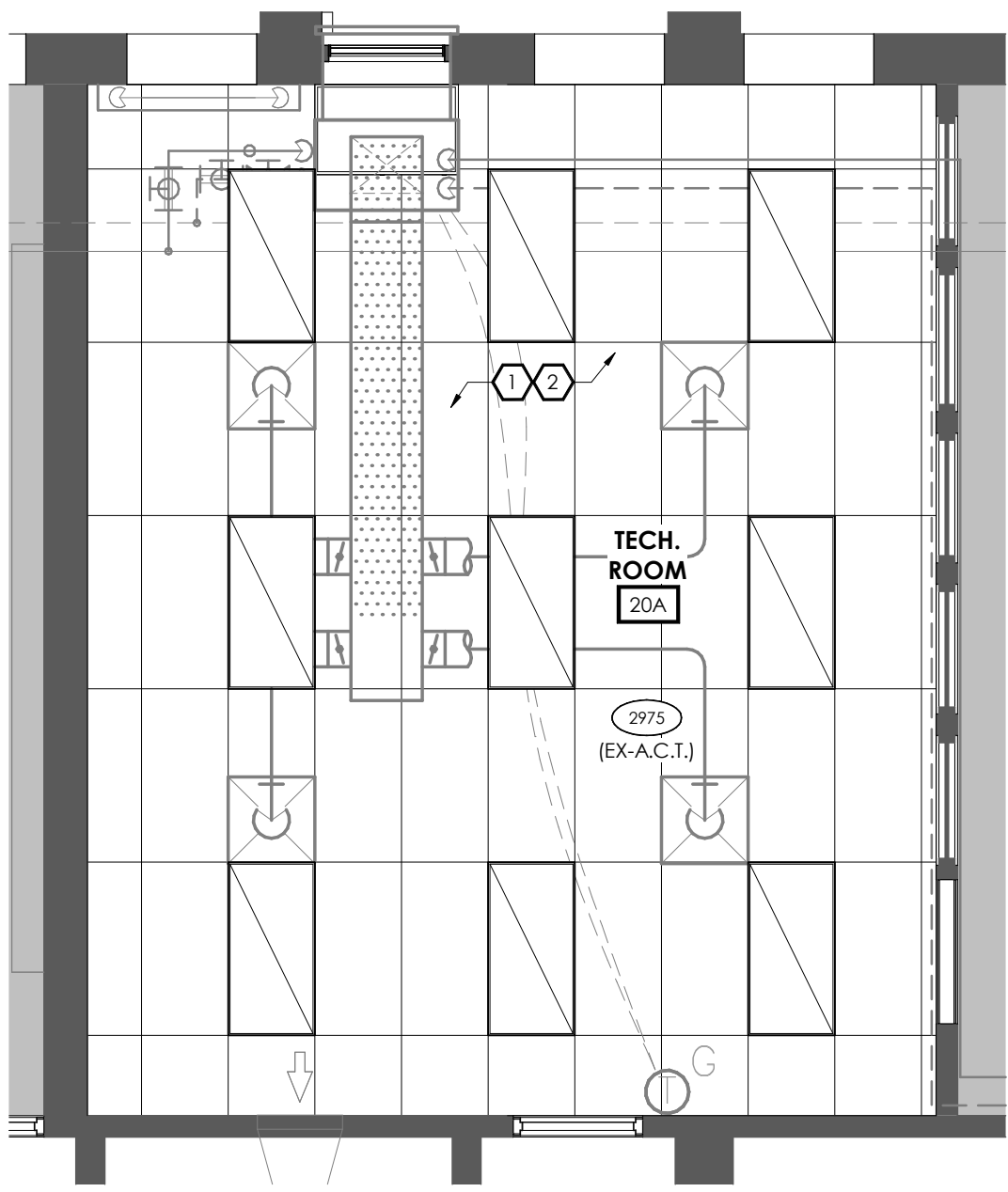
CEILING TILE

ACT-1
ARMSTRONG
CORTEGA SQUARE LAY-IN
SIZE: 610mm x 1220mm
COLOUR: WHITE
GRID: 15/16"

RCP LEGEND

- 2450 CEILING HEIGHT TAG
- POT LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- SUSPENDED PENDANT LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- WALL MOUNTED LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- 610x610 AND 610x1220 RECESSED FLUORESCENT LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- SUSPENDED LIGHT FIXTURE (REFER TO ELECTRICAL DWGS.)
- SUPPLY AIR DIFFUSERS (REFER TO MECHANICAL DWGS.)
- EXHAUST FAN (REFER TO MECHANICAL DWGS.)
- RETURN AIR GRILLE (REFER TO MECHANICAL DWGS.)

- RCP NOTES**
- LIGHT FIXTURES ARE TO BE PLACED IN THE CENTRE OF THE SUSPENDED CEILING TILE, GYPSUM BOARD CEILING OR BULKHEAD UNLESS NOTED OTHERWISE.
 - EMERGENCY AND EXIT SIGNS NOT SHOWN. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS AND MOUNTING HEIGHTS. NOTIFY ARCHITECT AND/OR DESIGNER OF ANY CONFLICTS.
 - REFER TO ELECTRICAL DRAWINGS FOR FULL SCOPE OF ELECTRICAL DEVICES AND SPECIFICATIONS. NOTIFY THE ARCHITECT AND/OR DESIGNER OF ANY FOUND DISCREPANCIES AND/OR CONFLICTS.
 - REFER TO MECHANICAL DRAWINGS FOR FULL SCOPE OF MECHANICAL DEVICES AND SPECIFICATIONS. NOTIFY THE ARCHITECT AND/OR DESIGNER OF ANY FOUND DISCREPANCIES AND/OR CONFLICTS.
 - LIGHT FIXTURES AND MECHANICAL DUCTWORK/DIFFUSERS/RETURN AIR GRILLES/EQUIPMENT ARE SHOWN FOR COORDINATION PURPOSES ONLY. NOT ALL FIXTURES MAY BE INDICATED ON THIS PLAN. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPREHENSIVE SCHEDULING OF FIXTURES, DEVICES AND EQUIPMENT/QUANTITY/MOUNTING HEIGHTS/ETC.
 - REFER TO ARCHITECT AND/OR DESIGNER DRAWINGS FOR DIMENSIONAL LOCATION OF CEILING FIXTURES. REFER TO ENGINEERING DRAWINGS FOR SPECIFICATIONS. LOCATION FOR FIXTURES IN CEILING TO BE LAID OUT AND APPROVED ON SITE BY DESIGNER PRIOR TO INSTALLATION.
 - WHEREVER EXISTING FIXTURES ARE DAMAGED OR IN POOR WORKING ORDER, CONTRACTOR TO ALLOW FOR REPLACEMENT WITH NEW FIXTURES TO MATCH EXISTING.
 - REFER TO ENGINEERING DRAWING FOR LIFE SAFETY SYSTEMS.
 - LOCATE DIFFUSERS/GRILLES AND LIGHT FIXTURES WITHIN GRID LINES, CENTRE SPRINKLER HEADS, SPEAKERS, RECESSED FIXTURES, AND SIMILAR CEILING ELEMENTS IN ACOUSTICAL UNITS AND DRYWALL TO CREATE ALIGNMENT, UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO CROSS REFERENCE BETWEEN ARCHITECT AND/OR DESIGNER'S ELECTRICAL DRAWINGS, ENGINEER'S ELECTRICAL DRAWINGS, ENGINEER'S MECHANICAL DRAWINGS AND SITE CONDITIONS. REPORT DISCREPANCIES TO THE ARCHITECT AND/OR DESIGNER FOR CLARIFICATION.
 - CONTRACTOR TO PROVIDE OPENINGS IN DRYWALL CEILING TO ACCOMMODATE EXIT LIGHTS, ACCESS PANELS TO MECHANICAL BOTH NEW AND BASE BUILDING EQUIPMENT, RECESSED DOWN LIGHT AND AIR DIFFUSERS. CONTRACTOR TO REFER TO REFLECTED CEILING PLAN AND ENGINEERING DRAWINGS AND SPECIFICATIONS.
 - ALL POT LIGHTS AND ACCENT LIGHTS TO BE ON DIMMERS UNLESS NOTED OTHERWISE. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION.
 - CONTRACTOR TO PROVIDE AIR TRANSFER DUCTS IN ACCORDANCE WITH MECHANICAL DRAWINGS WHERE CONSTRUCTION OCCURS ABOVE SUSPENDED CEILING TO U/S OF SLAB.
 - UPON COMPLETION OF CONSTRUCTION, CONTRACTOR TO RETURN UNUSED BASE BUILDING FIXTURES TO BUILDING LANDLORD.
 - ALL EXPOSED DUCTWORK TO BE PAINTED, UNLESS NOTED OTHERWISE. REFER TO FINISHES PLAN FOR PAINT COLOUR.



2 TECH. ROOM 20A REFLECTED CEILING PLAN

RCP KEYNOTES

- EXISTING SUSPENDED ACOUSTIC CEILING GRID AND TILES TO REMAIN. REMOVE TILE AND DISASSEMBLE GRID TO FACILITATE INSTALLATION OF NEW MECHANICAL HVAC SYSTEM AS REQUIRED. STORE IN SECURE, DRY LOCATION FOR REINSTALLATION LATER. REFER TO MECH AND ELEC DWGS FOR SCOPE IN THIS ROOM.
- REINSTATE EXISTING CEILING GRID ASSEMBLY AND REINSTALL CEILING TILES UPON COMPLETION OF NEW MECHANICAL SCOPE. RE-WORK CEILING AS REQUIRED TO ACCOMMODATE NEW SHAFT WALL; REFER TO MECH AND ELEC DWGS

1:50

1 General

1.1 SUMMARY

.1 This Section includes, but is not limited to, the following:

.1 Resilient tile flooring:

.1 Vinyl composition floor tile (VCT).

1.2 REFERENCE STANDARDS

.1 The latest published edition of a reference shall be applicable to this Project unless identified by a specific edition date.

.2 All reference amendments adopted prior to the bid closing date of this Project shall be applicable to this Project.

.3 All materials, installation and workmanship shall comply with all applicable requirements and standards.

.4 Applicable Standards:

.1 American Society for Testing and Materials (ASTM):

.1 ASTM F1066, Standard Specification for Vinyl Composition Floor Tile

.2 ASTM D2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine

.3 ASTM F137, Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus

.4 ASTM F386, Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces

.5 ASTM F410, Standard Test Method for Wear Layer Thickness of Resilient Floor Coverings by Optical Measurement

.6 ASTM F925, Standard Test Method for Resistance to Chemicals of Resilient Flooring

.7 ASTM F1700, Standard Specification for Solid Vinyl Floor Tile

.8 ASTM F1869, Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

.9 ASTM F1914, Standard Test Methods for Short-Term Indentation and Residual Indentation of Resilient Floor Covering

.10 ASTM F2199, Standard Test Method for Determining Dimensional Stability and Curling Properties of Resilient Flooring after Exposure to Heat

.11 ASTM F2421, Standard Test Method for Measurement of Resilient Floor Plank by Dial Gauge

.12 ASTM F2055, Standard Test Method for Size and Squareness of Resilient Floor Tile by Dial Gauge Method

.2 Canadian General Standards Board (CGSB):

.1 CAN/CGSB-51.34-M, Vapour Barrier, Polyethylene Sheet for Use in Building Construction

1.3 ADMINISTRATIVE REQUIREMENTS

- .1 Pre-Construction Conference: Arrange a site meeting, to coincide with regular bi-weekly site meetings, attended by all relevant personal before commencement of work for this Section.
- .2 Agenda for meeting will include; but not be limited to, the following:
 - .1 Verify project requirements, substrate conditions, patterns, and layouts;
 - .2 Coordination with other Sections affected by work of this Section;
 - .3 Manufacturer's installation instructions and manufacturer's warranty requirements.
- .3 Coordination: Coordinate components of the work of this Section with Work performed by other Sections including; but not limited to, the following:
 - .1 Close spaces to traffic during flooring installation and until time period after installation recommended in writing by manufacturer.
 - .2 Install flooring and accessories after other finishing operations, including painting and ceiling construction have been completed.

1.4 SUBMITTALS

- .1 Provide submittals in accordance with Division 01.
- .2 Action Submittals:
 - .1 Product Data: Submit one copy of product data for each type of product specified.
 - .2 Shop Drawings: Submit shop drawings indicating:
 - .1 Location of seams and edges.
 - .2 Location of columns, doorways, enclosing partitions, built-in furniture, cabinets, and cut-out locations.
 - .3 Samples for Selection: Submit manufacturer's colour charts and samples for initial selection consisting of full range of colours and patterns available for each type of product indicated.
 - .4 Samples for Verification:
 - .1 Resilient Flooring: Submit samples of each different specified product for verification of colour and pattern in manufacturer's standard size, but not less than 150mm x 150mm (6" x 6") in size for tile material.
- .3 Informational Submittals: Provide the following submittals during the course of the work:
 - .1 Site Quality Control Test Results: Submit results or moisture emission testing of concrete subfloors prior to installation of flooring. Results shall include comparison of manufacturer's recommended moisture content to actual moisture vapour emission rate.
- .4 Maintenance Data and Operating Instructions:
 - .1 Operation and Maintenance Data: Submit manufacturer's written instructions for maintenance and cleaning procedures, include list of manufacturers recommended cleaning and maintenance products, and name of original installer and contact information in accordance with Division 01.
- .5 Maintenance Material Submittals:
 - .1 Provide five percent (5%) of each colour and type of resilient flooring specified, boxed and labelled.
 - .2 Store maintenance materials on the premises as directed by the Owner.

1.5 QUALITY ASSURANCE

- .1 Contractor executing work of this Section shall have a minimum of five (5) years continuous experience in successful and installation of work of type and quality shown and specified. Submit proof of experience upon Consultant's request.
- .2 Resilient Flooring Installer:
 - .1 Use an installer having a minimum of five (5) years documented experience in the installation of resilient flooring and seams in accordance with manufacturer's training or certification program.

1.6 SITE CONDITIONS

- .1 Ambient Conditions: Maintain area or room in which Work of this Section is being installed, at a uniform temperature and humidity for 48 hours prior to, during and after installation.
- .2 Concrete floors shall be aged for a minimum of twenty-eight (28) days and shall be dry before application of the resilient flooring.
- .3 Moisture content of floor shall not exceed a maximum of 3 lbs. of water per 1,000 sq. ft. of concrete slab area over a twenty-four (24) hour period as measured by one (1) of the following methods, as approved by Consultant:
 - .1 Rubber Manufacturer's Association (RMA) moisture test using anhydrous calcium chloride.
 - .2 Does not exceed 3% as measured by Calcium Carbide Hygrometer procedure.
 - .3 Does not exceed 5% as measured by normal Protimeter.
- .4 Avoid exposure to high humidity, cold drafts and abrupt temperature changes.

1.7 DELIVERY, STORAGE, HANDLING AND PROTECTION

- .1 Follow packaging, shipping and product handling requirements recommended by the manufacturer, and as indicated in Division 01.
- .2 Coordinate deliveries to comply with Construction Schedule and arrange ahead for off-the-ground, under cover storage location. Do not load any area beyond the design limits.
- .3 Materials shall be carefully checked, unloaded, stored and handled to prevent damage. Protect materials with suitable non-staining waterproof coverings.
- .4 Store material in original, undamaged containers or wrappings with manufacturer's seals and labels intact.
- .5 Restrict traffic by other trades during installation.
- .6 Provide adequate protection of completed tiled surfaces to prevent damage by other trades until final completion of this project. Minimum protection shall consist of kraft paper.

1.8 WARRANTY

- .1 Provide extended warranties in accordance with Division 01.
- .2 Warrant the work of this Section against defects in materials and workmanship in accordance with the General Conditions, but for an extended period of five (5) years commencing at take-over.
- .3 Agree to repair or replace faulty materials or work which become evident during warranty period without cost to the Owner.
- .4 Defects shall include, but not limited to:
 - .1 Bond failure and extensive colour fading.

2 Products

2.1 MANUFACTURERS

.1 Acceptable Materials Manufacturers: Subject to compliance with requirements specified in this Section, manufacturers offering products that may be incorporated into the Work include but are not limited to, the following:

- .1 Armstrong Flooring
- .2 Mannington Commercial

2.2 MATERIALS

.1 Vinyl Composition Floor Tile (VCT): Asbestos free uniform in thickness with uniform colour and pattern through the full thickness, with straight, sharp and square edges and corners, accurately cut to size, conforming to ASTM F1066 and the following:

- .1 Classification: Class 1 – Solid Colour.
- .2 Colour: As selected by the Consulting from manufacturers standard range.
- .3 Thickness: 3mm (1/8”).
- .4 Size 305mm x 305mm (12” x 12”).
- .5 Size, Model, Colour: As selected by the Consulting from the manufacturer’s full product line.

2.3 ACCESSORIES

- .1 Resilient Floor Tile Adhesive: As recommended by luxury vinyl tile manufacturer for substrate conditions.
- .2 Levelling and Patching Compounds: As indicated in Section 03 35 00.
- .3 Fillers and Primers:
 - .1 Types and brands approved, acceptable to flooring material and resilient base manufacturers for the applicable conditions. Use non-shrinking latex compound.

3 Execution

3.1 EXAMINATION

- .1 Testing and Inspections: Test moisture emission rate of concrete subfloor prior to installing flooring, using the calcium chloride test method in accordance with ASTM F1869.
- .2 Examine substrates, areas, and conditions affecting work are in accordance with manufacturer’s requirements, and as follows:
 - .1 Verify that floor surfaces are smooth and flat to plus or minus 3mm over 3m (1/8” over 10’); Notify Consultant in writing where floor tolerances are not within acceptable values.
 - .2 Verify that concrete slabs exhibit normal alkalinity of between 5 and 9 and that they are free of carbonization or dusting deleterious to flooring installation or adhesive bond.
 - .3 Verify that subfloors are free of cracks, ridges, depressions, scale, and foreign deposits that could interfere with flooring installation.

3.2 PREPARATION

- .1 Comply with resilient flooring manufacturer's written installation instructions for preparing substrates indicated to receive flooring.
- .2 Fill cracks, holes, and depressions in substrates using levelling and patching compounds in accordance with manufacturers written instructions, and as indicated in Section 03 35 00.
- .3 Remove coatings from concrete substrates, including curing compounds and other substances that are incompatible with flooring adhesives, and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer; do not use solvents.
- .4 Broom and vacuum clean substrates immediately before installing resilient flooring.

3.3 INSTALLATION

- .1 Comply with resilient flooring manufacturer's written installation instructions.
- .2 Apply adhesive uniformly with an approved notch tooth spreader at the recommended rate. (Mechanical spreader not approved). Do not spread more adhesive than can be covered before initial set takes place. Use waterproof adhesive throughout. Follow manufacturer's instructions.
- .3 Layout tile flooring as follows:
 - .1 Lay tile with joints parallel to building lines or as indicated on drawings to produce a symmetrical tile pattern.
 - .2 Install tile flooring so that perimeter tile width is minimum 1/2 full size.
- .4 Accurately scribe flooring around walls, and other floor conditions.
- .5 Each type of material used shall be from one manufacturer throughout the work and material in each area shall be of same production run.
- .6 Remove and replace loose, damaged and defective tiles where required and as directed by Consultant.

3.4 CLEANING AND PROTECTION

- .1 Cleaning, sealing and finishing of resilient flooring in accordance with the manufacturer's instructions and recommendations.
- .2 Work shall be handed over to the Owner free of blemishes and in perfect condition.

END OF SECTION

1 General

1.1 SUMMARY

- .1 Provide labour, materials, tools and other equipment, services and supervision required to complete interior painting work.
- .2 Surface preparation for this section will be limited to priming and back-priming, and specific pre-treatments noted in this section or as specified in the Master Painters Institute (MPI) Painting Specification Manual.

1.2 RELATED REQUIREMENTS

- .1 Other sections of the specification requiring painting refer to this section. Coordinate requirements of referencing sections.

1.3 REFERENCE STANDARDS

- .1 The latest published edition of a reference shall be applicable to this Project unless identified by a specific edition date.
- .2 All reference amendments adopted prior to the bid closing date of this Project shall be applicable to this Project.
- .3 All materials, installation and workmanship shall comply with all applicable requirements and standards.
- .4 Applicable Standards:
 - .1 Environmental Choice Paints and Surface Coatings, Low VOC Product Listings Program (ECP):
 - .1 Paints and Surface Coatings, Low VOC Product Listings
 - .2 The Master Painters Institute (MPI):
 - .1 New Surfaces: Architectural Painting Specification Manual.
 - .3 The Society for Protective Coatings (SSPC):
 - .1 Coating Materials Guidelines
 - .2 Surface Preparation Guidelines
 - .3 Application, Inspection and Quality Control Guidelines

1.4 DEFINITIONS

- .1 Gloss Levels: Standard coating terms defined by MPI Manual apply to products of this Section as follows:
 - .1 G1: Matte or Flat: Lustreless or matte finish with a gloss range below 10 when measured at 85° to meter and 0 to 5 when measured at 60°.
 - .2 G2: Velvet: Matte to low sheen finish with a gloss range of 10 to 35 when measured at 85° to meter and 0 to 10 when measured at 60°.
 - .3 G3: Eggshell: Low sheen finish with a gloss range of 10 to 35 when measured at 85° to meter and 10 to 25 when measured at 60°.
 - .4 G4: Satin: Low to medium sheen with a gloss range of minimum 35 when measured at 85° to meter and 20 to 35 when measured at 60°.
 - .5 G5: Semi-Gloss: Medium sheen finish with a gloss range of 35 to 70 when measured at 60° to meter.
 - .6 G6: Gloss: High sheen finish with a gloss range of 70 to 85 when measured at 60° to meter.

- .7 G7: High Gloss: Reflective sheen having a gloss range in excess of 85 when measured at 60° to meter.
- .2 Gloss Values: Generally, provide paints and coatings having the following sheens when installed on the following substrates:
 - .1 Walls: Eggshell (G3).
 - .2 Trim and Doors: Satin (G4).
 - .3 Ceilings: Flat (G1).

1.5 SUBMITTALS

- .1 Provide required information in accordance with Division 01.
- .2 Action Submittals: Provide the following submittals before starting any work of this Section:
 - .1 Product Data: Submit list of all painting materials used for the Work to the Consultant for review prior to ordering materials for each paint system indicated, including block fillers and primers.
 - .1 Material List: An inclusive list of required coating materials indicating each material and cross reference specific coating, finish system, and application; identify each material by manufacturer's catalogue number and general classification.
 - .2 Manufacturer's Information: Manufacturer's technical information, including label analysis and instructions for handling, storing, and applying each coating material.
 - .2 Samples: Provide stepped samples, defining each separate coat, including block fillers and primers using representative colours required for the project; label each sample for location and application, and as follows:
 - .1 Drawdown Samples: Provide three (3) drawdown sample charts (cards) for each type, texture and colour of finish specified for verification purposes before ordering paint materials.
 - .3 Informational Submittals: Provide the following submittals when requested by the Consultant:
 - .1 Certification: Submit certification reports for paint products indicating that they meet or exceed low VOC and coloured base requirements listed in this Section.

1.6 PROJECT CLOSEOUT SUBMISSIONS

- .1 Operation and Maintenance Data: Submit copies of paint manufacturer's written maintenance information for inclusion in the operations manual in accordance with Division 01, including specific warning of any maintenance practice or materials that may damage or disfigure the finished Work.
- .2 Maintenance Materials: Deliver maintenance materials to Owner in quantities indicated and in accordance with Division 01, that match products installed; packaged with protective covering for storage, and identified with labels describing contents and building location and as follows:
 - .1 Paints and Coatings: Minimum of 4-4L containers of field colours and 4-1 L containers of each accent colour, and all remnants.

1.7 QUALITY ASSURANCE

- .1 Conform to the standards contained in the MPI Manual for interior work.
- .2 Applicator Qualifications: A firm or individual experienced in applying paints and coatings similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in service performance, and as follows:
 - .1 Have a minimum of five (5) years proven satisfactory experience and shall show proof before commencement of work that he will maintain a qualified crew of painters throughout the duration of the work.
 - .2 When requested provide a list of the last three comparable jobs including, name and location, specifying authority, start and completion dates and cost amount of the painting work.
 - .3 Apprentices may be employed provided they work under the direct supervision of a qualified journeyman in accordance with trade regulations.
- .3 Source Limitations: Obtain block fillers and primers for each coating system from the same manufacturer as the finish coats and as follows:
 - .1 Use only paint manufacturers and products as listed under the Approved Products section of the MPI Manual Architectural Painting Specification Manual.

1.8 DELIVERY, STORAGE, AND HANDLING

- .1 Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 7 deg C (45 deg F).
 - .1 Maintain containers in clean condition, free of foreign materials and residue.
 - .2 Remove rags and waste from storage areas daily.

1.9 FIELD CONDITIONS

- .1 Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 10 and 35 deg C (50 and 95 deg F).
- .2 Maintain temperatures above 10 deg C for 24 hours before, during, and 24 hours after application.
- .3 Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 3 deg C (5 deg F) above the dew point; or to damp or wet surfaces.

1.10 WARRANTY

- .1 Provide upon completion of the work, a Warranty Certificate, in the name of the Owner, stating that the work of this section was performed in accordance with these specifications and the MPI manual (latest edition), and is warranted against defects in material or installation, for a period of two (2) years from Date of Substantial Performance.

2 Products

2.1 MANUFACTURERS

- .1 Subject to compliance with requirements, manufacturers that have attained the prerequisites for ecologically sustainable labelling mark on their products and may be incorporated into the Work include; but are not limited to, the following:
 - .1 Dulux Paints (PPG)
 - .2 Benjamin Moore and Co. Limited
 - .3 Sherwin-Williams LLC

2.2 PAINT, GENERAL

- .1 MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists".
- .2 Material Compatibility:
 - .1 Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - .2 For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
- .3 VOC Content: For field applications, paints and coatings shall comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:
 - .1 Flat Paints and Coatings: 50 g/L.
 - .2 Nonflat Paints and Coatings: 50 g/L.
 - .3 Dry-Fog Coatings: 150 g/L.
 - .4 Primers, Sealers, and Undercoaters: 100 g/L.

2.3 EPOXY PAINT AND SCHEDULE

- .1 Latex Primer:
 - .1 For use on gypsum board surfaces; interior latex primer.
 - .2 For use on wood surfaces; interior acrylic primer sealer.
- .2 Topcoat - Pre-Catalyzed Waterborne Epoxy Paint:
 - .1 Low VOC, durable to allow scrubbing once cured with a high abrasion resistance.
 - .2 Resists water and common cleaning chemicals, and adheres to existing surfaces including existing paint, drywall, primed masonry and primed metal.
 - .3 Basis of Design Materials:
 - .1 Corotech High Performance Pre-Catalyzed Waterborne Epoxy by Benjamin Moore.
 - .2 Pro Industrial Pre-Catalyzed Waterbased Epoxy by Sherwin Williams.
 - .3 Pitt-Glaze Wb1 High-Performance Pre-Catalyzed Waterborne Epoxy by Dulux (PPG).
- .3 Paint Schedule:
 - .1 (PT-1) General Wall and Ceiling Paint Colour and Manufacturer:
 - .1 As indicated in the Finish Material Schedule on the Drawings.
 - .2 (PT-2) Doors and Trim Paint Colour and Manufacturer:
 - .1 As indicated in the Finish Material Schedule on the Drawings.

3 Execution

3.1 EXAMINATION

- .1 Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

- .2 Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - .1 Wood: 15 percent.
 - .2 Gypsum Board: 12 percent.
- .3 Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
- .4 Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
- .5 Proceed with coating application only after unsatisfactory conditions have been corrected.
 - .1 Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- .1 Comply with manufacturer's written instructions and recommendations in "MPI Painting Specification Manual" applicable to substrates and paint systems indicated.
- .2 Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - .1 After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- .3 Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - .1 Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
- .4 Gypsum Wallboard: Repair all surfaces in gypsum wallboard with wallboard joint finishing compound or spackling compound, filled out flush and sanded smooth. Clean all surfaces and taped joints of dust, dirt and other contaminants and be sure they are thoroughly dry before applying paint.
- .5 Mix and prepare paint materials according to manufacturer's written instructions.
 - .1 Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
 - .2 Stir material before application to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into material. If necessary, remove surface film and strain material before using.
 - .3 Use only thinners approved by paint manufacturer and only within recommended limits.

3.3 APPLICATION

- .1 Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual."
 - .1 Use applicators and techniques suited for paint and substrate indicated.
 - .2 Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 - .3 Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
 - .4 Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.

- .5 Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
- .2 Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match colour of topcoat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- .3 Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.
 - .1 The number of coats and film thickness required are the same regardless of application method. Do not apply succeeding coats until previous coat has cured as recommended by manufacturer. If sanding is required to produce a smooth, even surface according to manufacturer's written instructions, sand between applications.
 - .1 Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn-through or other defects due to insufficient sealing.
 - .2 Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
 - .3 If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance. Give special attention to ensure that edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
 - .2 Allow sufficient time between successive coats to permit proper drying. Do not recoat surfaces until paint has dried to where it feels firm, and does not deform or feel sticky under moderate thumb pressure, and until application of another coat of paint does not cause undercoat to lift or lose adhesion.
- .4 Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
 - .1 Spray Equipment (Preferred Method): Use airless spray equipment with orifice size as recommended by manufacturer for material and texture required.
 - .1 Tip range between .015 and .019. Total fluid output pressure at tip should not be less than 2400 psi.
 - .2 Recommended Tip: Fluid Tip E.
 - .2 Brushes: Use brushes best suited for type of material applied. Use brush of appropriate size for surface or item being painted.
 - .3 Rollers: Use rollers of carpet, velvet-back, or high-pile sheep's wool as recommended by manufacturer for material and texture required.
- .5 Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and colour breaks.
- .6 Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:
 - .1 Paint the following work where exposed in equipment rooms and where exposed in occupied spaces:
 - .1 Equipment, including panelboards.
 - .2 Uninsulated metal piping.
 - .3 Uninsulated plastic piping.

- .4 Pipe hangers and supports.
 - .5 Metal conduit.
 - .6 Plastic conduit.
 - .7 Tanks that do not have factory-applied final finishes.
 - .8 Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.
 - .9 Other items as directed by Consultant.
- .7 Paint portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets that are visible from occupied spaces.
- .1 Colour: Flat (gloss level 1), nonspecular, black.

3.4 FIELD QUALITY CONTROL

- .1 Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
 - .1 Contractor shall touch up and restore painted surfaces damaged by testing.
 - .2 If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- .1 At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- .2 After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- .3 Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Consultant, and leave in an undamaged condition.
- .4 At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 INTERIOR PAINTING SCHEDULE

- .1 Wood Substrates: Wood trim, doors and frames, paneling and casework:
 - .1 Prime Coat: Acrylic Primer Sealer.
 - .2 Topcoat: High-Performance Waterborne Epoxy System.
- .2 Gypsum Board Substrates:
 - .1 Prime Coat: Acrylic Primer Sealer.
 - .2 Topcoat: High-Performance Waterborne Epoxy System.

END OF SECTION

March 27, 2024

Client: ABA Architects Inc.
101 Randall Drive, Unit B
Waterloo, ON N2V 1C5

RE: WRDSB Courtland Avenue Public School
Ventilation Upgrades & Renovation
Kitchener, ON

Job #: 23320

Attn: Anne Ceballo

ADDENDUM 01

MECHANICAL

Item 1

- 1.0 Reference Attached Reissued Drawings M1.1 and M3.2
- .1 Minimum outdoor airflow rate for unit ventilators to be revised as indicated.
 - .2 Minimum static pressure for ducted unit ventilators to be revised to 0.5" w.c.
 - .3 Provide CO₂ sensor in return air plenum for monitoring by BAS system.
 - .4 A 'C' in circle (beside a thermostat) represents a wall mount CO₂ sensor.
 - .5 Unit ventilator numbering is to be updated to continue sequentially after existing unit ventilator numbering. Numbering will be updated after award of tender.

Item 2

- 2.0 Reference Attached Reissued Drawings M2.2 and M3.3
- .1 Remove Note 13 from drawing M2.2. No demo work required in BF Washroom 42.
 - .2 No new work required in BF Washroom 42.
 - .3 Condensate for UV-5 and UV-6 to discharge through exterior wall.

Item 3

- 3.0 Reference Attached Reissued Drawings M3.5 and M4.1
- .1 Condensing units to be installed on pavers on high-density styrofoam bases. Elevated snow stands are not to be used.
 - .2 Side connection required to radial slot diffusers D2. Detail provided.
 - .3 Provide system drains at all hydronic system low points. Details updated.

ELECTRICAL

Item 1

- 1.0 Reference Drawing E2.2 and Attached Reissued Drawing E3.2
- .1 Two (2) power poles in the southwest end of the library are to be demolished rather than relocated.
 - .2 Lighting controls for the library to be installed in the new backbox per attached reissued drawing E3.2 (refer to Note 6).



Item 2

2.0 Reference Drawing E3.1

- .1 Supply and install a ceiling-mounted receptacle in the center of Tech Room 20A ceiling for future air cleaner. Provide 15A-1P breaker in panel circ pump for feed.

Item 3

3.0 Reference Drawing E4.1

- .1 Supply and install two (2) 15A-1P breakers in panel circ pump as spare.
- .2 Supply and install two (2) 15A-1P and one (1) 15A-3P breakers in panel R as spare.



Dustin McConkey

Lead Electrical Designer, Associate

23320 Addendum 01 (M&E-Library Lighting)(various reissued dwgs) Mar 27 24
dm/mr/sad/ja



UNIT VENTILATOR SCHEDULE																	CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.				
Item	Type	Capacity		Min. O.A. SP in wc	Size hp	Heating					Cooling			Electrical			Manufacturer	Model	Remarks		
		tons	cfm			Medium	Coil Rows	EWT °F	LWT °F	Cap. MBH	GPM*	Medium	Total Cap. MBH	Sens. Cap. MBH	Voltage	MCA				MOCP	
UV-1	VERTICAL UNIT VENTILATOR	3.0	1000	75*	0.5	1/2	WATER	2	150	130	78.7	8	DX	40.7	28.2	208/1/60	8.3	15	TRANE	FRESHMAN HRA 36 IQ - B	INTEGRAL DX COOLING COIL, REMOTE CONDENSING UNIT, POWER EXHAUST, ECM MOTORS, 2 ROW HEATING COIL, INTEGRAL CONDENSATE PUMP, HEAVY DUTY RETURN GRILLE, DUCTED SUPPLY AIR TOP CONNECTION, 10" REAR PLENUM ENCLOSURE PANELS. INTERLOCK TO JUST COLLECTOR. OPEN O/A DAMPER TO LOCK O/A WHEN DUST COLLECTOR IS ON, MODULATE DAMPER AS REQUIRED FOR MIN 16°C S/A TEMP.
UV-2	VERTICAL UNIT VENTILATOR	5.0	2000	415	0.5	1	WATER	2	150	130	108.3	10.8	DX	65.6	48.2	208/1/60	13.75	20	TRANE	FRESHMAN HRA 60 IQ - C	INTEGRAL DX COOLING COIL, REMOTE CONDENSING UNIT, POWER EXHAUST, ECM MOTORS, 2 ROW HEATING COIL, INTEGRAL CONDENSATE PUMP, HEAVY DUTY RETURN GRILLE, DUCTED SUPPLY AIR TOP CONNECTION, 10" REAR PLENUM ENCLOSURE PANELS.
UV-3	VERTICAL UNIT VENTILATOR	3.0	1200	125	0.5	1/2	WATER	2	150	130	85.5	8.8	DX	46.1	32.5	208/1/60	8.3	15	TRANE	FRESHMAN HRA 36 IQ - B	INTEGRAL DX COOLING COIL, REMOTE CONDENSING UNIT, POWER EXHAUST, ECM MOTORS, 2 ROW HEATING COIL, INTEGRAL CONDENSATE PUMP, HEAVY DUTY RETURN GRILLE, DUCTED SUPPLY AIR TOP CONNECTION, 10" REAR PLENUM ENCLOSURE PANELS.
UV-4	VERTICAL UNIT VENTILATOR	3.0	1000	140	0.5	1/2	WATER	2	150	130	78.7	8	DX	40.7	28.2	208/1/60	8.3	15	TRANE	FRESHMAN HRA 36 IQ - B	INTEGRAL DX COOLING COIL, REMOTE CONDENSING UNIT, POWER EXHAUST, ECM MOTORS, 2 ROW HEATING COIL, INTEGRAL CONDENSATE PUMP, HEAVY DUTY RETURN GRILLE, DUCTED SUPPLY AIR TOP CONNECTION, 10" REAR PLENUM ENCLOSURE PANELS.
UV-5	HORIZONTAL UNIT VENTILATOR	3.0	1000	115	0.0	1/4	WATER	2	150	130	80.1	8.1	DX	32.5	22.3	208/1/60	2.6	15	TRANE	VUVE100 10ZON1DJ	3-SPEED ECM MOTOR, FACE & BYPASS HEATING COIL, 3-WAY VALVE AT HEATING COIL, 250mm INSULATED REAR PIPE CHASE, TOP SUPPLY DISCHARGE HEAD, DIGITAL READY CONTROLS PACKAGE, REAR OA INTAKE DUCT COLLAR, TWO (2) FULL-DEPTH END PANELS (CUT-OUTS TO BE COMPLETED ON SITE TO SUIT DRAFTSTOP DOWNDRAFT PROTECTION FEATURE & PIPING TUNNEL) C/W MOUNTING HARDWARE & KICKPLATE (CONFIRM CUT-OUTS WITH MANUFACTURER), BOTTOM FRONT RA INLET GRILLE & DRAFTSTOP DOWNDRAFT PROTECTION RA INLET, UNIT MOUNTED DISCONNECT (INSIDE ENCLOSURE), HEATING COIL FREEZESTAT (FACTORY INSTALLED & WIRED), ADJUSTABLE LEG LEVELLERS, PUTTY BEIGE CABINET COLOUR (CONFIRM COLOUR WITH ARCH PRIOR TO ORDERING), TAMPER-RESISTANT FASTENERS ON ALL ACCESS DOORS, REPLACEMENT FILTERS C/W ONE EXTRA SET, SECONDARY OVERFLOW DRAIN CONNECTION FOR CONDENSATE PAN, 50mm BASE TO RAISE UNIT, SET FAN TO MEDIUM SPEED. PROVIDE C/W CONDENSATE PUMP.
UV-6	HORIZONTAL UNIT VENTILATOR	3.0	1000	115	0.0	1/4	WATER	2	150	130	80.1	8.1	DX	32.5	22.3	208/1/60	2.6	15	TRANE	VUVE100 10ZON1DJ	3-SPEED ECM MOTOR, FACE & BYPASS HEATING COIL, 3-WAY VALVE AT HEATING COIL, 250mm INSULATED REAR PIPE CHASE, TOP SUPPLY DISCHARGE HEAD, DIGITAL READY CONTROLS PACKAGE, REAR OA INTAKE DUCT COLLAR, TWO (2) FULL-DEPTH END PANELS (CUT-OUTS TO BE COMPLETED ON SITE TO SUIT DRAFTSTOP DOWNDRAFT PROTECTION FEATURE & PIPING TUNNEL) C/W MOUNTING HARDWARE & KICKPLATE (CONFIRM CUT-OUTS WITH MANUFACTURER), BOTTOM FRONT RA INLET GRILLE & DRAFTSTOP DOWNDRAFT PROTECTION RA INLET, UNIT MOUNTED DISCONNECT (INSIDE ENCLOSURE), HEATING COIL FREEZESTAT (FACTORY INSTALLED & WIRED), ADJUSTABLE LEG LEVELLERS, PUTTY BEIGE CABINET COLOUR (CONFIRM COLOUR WITH ARCH PRIOR TO ORDERING), TAMPER-RESISTANT FASTENERS ON ALL ACCESS DOORS, REPLACEMENT FILTERS C/W ONE EXTRA SET, SECONDARY OVERFLOW DRAIN CONNECTION FOR CONDENSATE PAN, 50mm BASE TO RAISE UNIT, SET FAN TO MEDIUM SPEED. PROVIDE C/W CONDENSATE PUMP.

GENERAL UNIT VENTILATOR NOTES:
1. ACCEPTABLE MANUFACTURERS: DAIKIN, CHANGE AIR, ENGINEERED AIR, AIRDALE, TRANE

AIR COOLED CONDENSING UNIT SCHEDULE																	CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
Item	Type	Service	Tons	Capacity MBH	Compressor				Electrical			Manufacturer	Model	Remarks					
					Type	No.	No. Stages	Refrig.	No. of Cond. Fans	Voltage	MCA				MOCP				
CU-1	OUTDOOR ROOF MOUNTED	-	3	36	SCROLL	1	2	R410A	1	208/3/60	15	25	TRANE	4TTA7036A	PROVIDE SUITABLE ZERO PENETRATION ROOF STAND PER DETAILS TO ELEVATE UNIT 450mm. CONNECT TO UV-1.				
CU-2	OUTDOOR ROOF MOUNTED	-	5	60	SCROLL	1	2	R410A	1	208/3/60	22	35	TRANE	4TTA7060A	PROVIDE SUITABLE ZERO PENETRATION ROOF STAND PER DETAILS TO ELEVATE UNIT 450mm. CONNECT TO UV-2.				
CU-3	OUTDOOR ROOF MOUNTED	-	3	36	SCROLL	1	2	R410A	1	208/3/60	15	25	TRANE	4TTA7036A	PROVIDE SUITABLE ZERO PENETRATION ROOF STAND PER DETAILS TO ELEVATE UNIT 450mm. CONNECT TO UV-3.				
CU-4	OUTDOOR ROOF MOUNTED	-	3	36	SCROLL	1	2	R410A	1	208/3/60	15	25	TRANE	4TTA7036A	PROVIDE SUITABLE ZERO PENETRATION ROOF STAND PER DETAILS TO ELEVATE UNIT 450mm. CONNECT TO UV-4.				
CU-5	OUTDOOR ROOF MOUNTED	-	3	36	SCROLL	1	2	R410A	1	208/3/60	15	25	TRANE	4TTA7036A	PROVIDE SUITABLE ZERO PENETRATION ROOF STAND PER DETAILS TO ELEVATE UNIT 450mm. CONNECT TO UV-5.				
CU-6	OUTDOOR ROOF MOUNTED	-	3	36	SCROLL	1	2	R410A	1	208/3/60	15	25	TRANE	4TTA7036A	PROVIDE SUITABLE ZERO PENETRATION ROOF STAND PER DETAILS TO ELEVATE UNIT 450mm. CONNECT TO UV-6.				

GENERAL CONDENSING UNIT NOTES:
1. CONDENSING UNIT SUCTION TEMPERATURE MUST BE COORDINATED WITH APPLICABLE FAN COIL UNIT PER MANUFACTURER'S RECOMMENDATIONS.

CONDENSATE PUMP SCHEDULE							CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
Item	Type	GPH	Head ft	Motor		Manufacturer	Description		
				hp	Voltage				
P-1	CONDENSATE PUMP	50	5'	bhp	120/1/60	LITTLE GIANT VCMA-15	CONDENSATE PUMP C/W 15' 120V PLUG.		
P-2	CONDENSATE PUMP	50	5'	bhp	120/1/60	LITTLE GIANT VCMA-15	CONDENSATE PUMP C/W 15' 120V PLUG.		

FAN SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
Item	Type	Capacity cfm	ESP in wc	Fan Speed rpm	hp	Motor Voltage	Acceptable Manufacturer	Description				
									EF-1	ROOF EXHAUST FAN (LIBRARY)	500	0.5

GENERAL FAN NOTES:
1. ACCEPTABLE MANUFACTURERS: GREENHECK, PENN-BARRY, COOK, CARNES, ACME, TWIN CITY, JENCO, BUFFALO.
2. PROVIDE 24" TALL PREFABRICATED, INSULATED ROOF CURB FOR ALL ROOF MOUNTED FANS.

GRILLE SCHEDULE							CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
Item	Type	Equalizing Grid	Volume Damper	Acceptable Manufacturer	Description				
						D1	SQUARE CEILING DIFFUSER	YES	NONE
D2	RADIAL SLOT DIFFUSER	NO	NONE	EH PRICE RSD	RADIAL SLOT DIFFUSER, 24x24, HIGH INDUCTION SWIRL PATTERN (SQUARE ARRAY), INTEGRATED PLENUM WITH SIDE INLET CONNECTION, SUITABLE FOR LAY-IN T-BAR CEILING.				
S1	SUPPLY GRILLE (SURFACE & DUCT CONFIGURATIONS)	NO	NONE, YES*	EH PRICE 22	DOUBLE DEFLECTION, 3/4" SPACING, ALUMINUM AIRFOIL BLADES PARALLEL TO LONG DIMENSION, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING. * C/W INTEGRAL BALANCE DAMPER FOR SPIRAL DUCT INSTALLATION.				
S2	LINEAR BAR GRILLE (PENCIL GRILLE, RAD COVER)	NO	NONE	EH PRICE LBP-25C	PRESSED CORE ALUMINUM LINEAR BAR GRILLE, 3/16" BARS, 7/16" BLADE SPACING, WIDTH TO SUIT DETAIL, LENGTH TO SUIT SITE CONDITION.				
R1	CEILING RETURN GRILLE (DUCTED)	NO	NONE	EH PRICE 80	1/2x1/2x1/2 ALUMINUM EGGRATE CORE, C/W CHANNEL BORDER FOR LAY-IN T-BAR CEILING.				
R2	LINEAR BAR GRILLE (PENCIL GRILLE, RAD COVER)	NO	NONE	EH PRICE LBP-25C	PRESSED CORE ALUMINUM LINEAR BAR GRILLE, 3/16" BARS, 7/16" BLADE SPACING, WIDTH TO SUIT DETAIL, LENGTH TO SUIT SITE CONDITION.				
E1	EXHAUST GRILLE (DUCTED)	NO	NONE	EH PRICE 80	1/2x1/2x1/2 ALUMINUM EGGRATE CORE, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.				
L1	EXTERIOR LOUVER	NO	NONE	PER SPECIFICATIONS	2" DEEP EXTRUDED ALUMINUM STORMPROOF LOUVER MINIMUM 45% FREE AREA AT SPECIFIED SIZE, RATED FOR NO WATER PENETRATION AT SPECIFIED AIRFLOW, PROVIDE INSULATED BLANK-OFF PANELS FOR ALL UNUSED PORTIONS OF LOUVER.				

GENERAL DIFFUSER/GRILLE NOTES:
1. ACCEPTABLE MANUFACTURERS: EH PRICE, NAILOR, TITUS, KRUEGER, CARNES, METALAIR, TUTTLE & BAILEY
2. GRILLE COLOURS ARE SELECTED BY ARCHITECT FROM STANDARD COLOUR CHART, UNLESS OTHERWISE NOTED.
3. PAINT INTERIOR OF DUCTWORK BEHIND GRILLE MATT BLACK (WHERE VISIBLE THRU GRILLE).

HYDRONIC HEATING COMPONENT SCHEDULE					CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
Item	Type	Acceptable Manufacturer	Description				
				H1	RADIATION (CABINET ONLY)	ENG-A ONLY) WF-1A (CABINET	WALL HUNG, 16ga STEEL CABINET WITH ALL MOUNTING HARDWARE, CORNERS, LAP PIECES, END CAPS ETC. PROVIDE STAMPED GRILLE ON SLOPED TOP, OPEN BOTTOM, 24" HIGH CABINET. PROVIDE CABINET ONLY, EXISTING ELEMENTS TO REMAIN.

GENERAL HEATING COMPONENT NOTES:
1. ACCEPTABLE MANUFACTURERS: ENGINEERED AIR, SIGMA, RITTLING, SLANT-FIN, ROSEMEX, DUNHAM-BUSH
2. TEMPERATURE RATINGS: EWT-150°F, LWT-120°F, EAT-68°F
3. SIZES & HEAT CAPACITIES ARE NOTED ON THE FLOOR PLANS
4. RAD, CONVECTOR, & CABINET HEATER CABINET FINISHES ARE TO BE FACTORY PAINTED SELECTED FROM STANDARD MANUFACTURER'S COLOURS TO SUIT ARCHITECTURAL.

MECHANICAL LEGEND			
Item	Description	Item	Description
-----	ITEM TO BE REMOVED	AD	ACCESS DOOR
---	CUT EXISTING & CONNECT NEW PIPING	SA	SUPPLY AIR DUCT
→	FLOW DIRECTION	RE	RETURN/EXHAUST AIR DUCT
HWS	HEATING WATER SUPPLY	FD	FIRE DAMPER
HWR	HEATING WATER RETURN	BD	BALANCING DAMPER
RL	REFRIGERANT LIQUID	G	THERMOSTAT (WITH GUARD WHERE INDICATED)
RS	REFRIGERANT SUCTION	G	CO2 SENSOR (WALL MOUNT, W/ GUARD WHERE INDICATED)
CD	CONDENSATE DRAIN	G	CO2 SENSOR (RETURN DUCT/PLENUM MOUNT)
BV	BALANCING VALVE		ACOUSTIC DUCT LINING
BV	BALL VALVE		RECTANGULAR DUCTWORK
←	VALVE ON RISER	←→	BRANCH LINE SPIN-IN COLLAR C/W BALANCING DAMPER
T	TEE CONNECTION	---	RIGID ROUND DUCT
e	PIPE DOWN	---	FLEXIBLE ROUND DUCT
o	PIPE UP	o	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)

GENERAL NOTES

- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- CONTRACTOR TO KEEP CURRENT AS-BUILT REDLINES ON SITE AS THE PROJECT PROGRESSES. PROVIDE COMPLETE AS-BUILT DRAWINGS TO CONSULTANT BEFORE SUBSTANTIAL COMPLETION FOR CONVERSION TO CAD.
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED, CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MIN 14"-0" FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
- WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCT(S) BETWEEN OWSJ.
- CO-ORDINATE WITH THE GENERAL CONTRACTOR ANY OWSJ BRIDGING/CROSS BRACING RELOCATION OR REMOVAL/REPLACEMENT REQUIRED FOR INSTALLATION OF DUCTWORK.
- CONTRACTOR TO LOCATE ISOLATION VALVES / FREEZE PIPING / OR OTHERWISE DRAIN SYSTEMS TO ALLOW PROPOSED WORK TO PROCEED. REFILL SYSTEMS AS INDICATED.

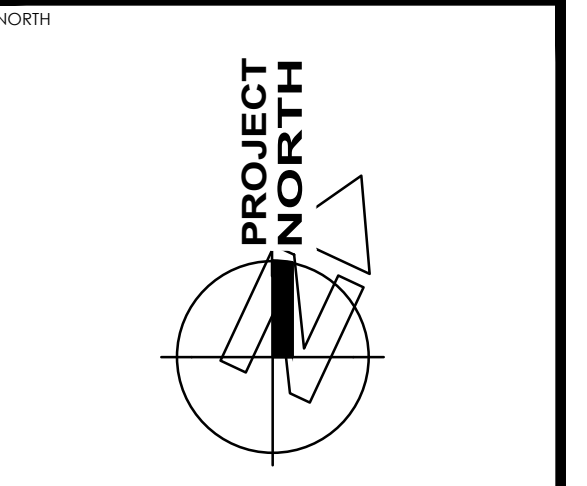
ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

WT CONTROL DAMPER SCHEDULE							CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
Item	Type	Design	Min. Vent	Capacity (cfm)					
				Heating	Cooling				
WT-20.1	SINGLE TERMINAL CONTROL BOX	250	60	75	425	75	425		
WT-20.2	SINGLE TERMINAL CONTROL BOX	250	60	75	425	75	425		
WT-20.3	SINGLE TERMINAL CONTROL BOX	250	60	75	425	75	425		
WT-30.1	SINGLE TERMINAL CONTROL BOX	400	150	120	680	120	680		

GENERAL WT NOTES:
CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing.
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No.	REVISIONS	DATE



ISSUED FOR	DATE
ISSUED FOR ADDENDUM	2024.03.26
ISSUED FOR TENDER	2024.03.05
ISSUED FOR PERMIT	2024.02.23

CHRONOLOGY DATE

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waukegan, ON N2V 1Y8
Phone: 519-735-3555
Website: deiconsultants.ca
Project Number: 2330

aba architects inc.
101 Ronald Drive, Unit 8, Waukegan, ON, N2V 2T1 | www.abaarchitects.ca

CLIENT

PROJECT NAME
COURTLAND PUBLIC SCHOOL MECH UPGRADES
107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

DRAWING TITLE
LEGEND AND SCHEDULES

SCALE: AS NOTED
SHEET SIZE: 24x36
PROJECT NUMBER: 22320
DRAWING NUMBER: **M1.1**

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
 The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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 Project Number: 23320

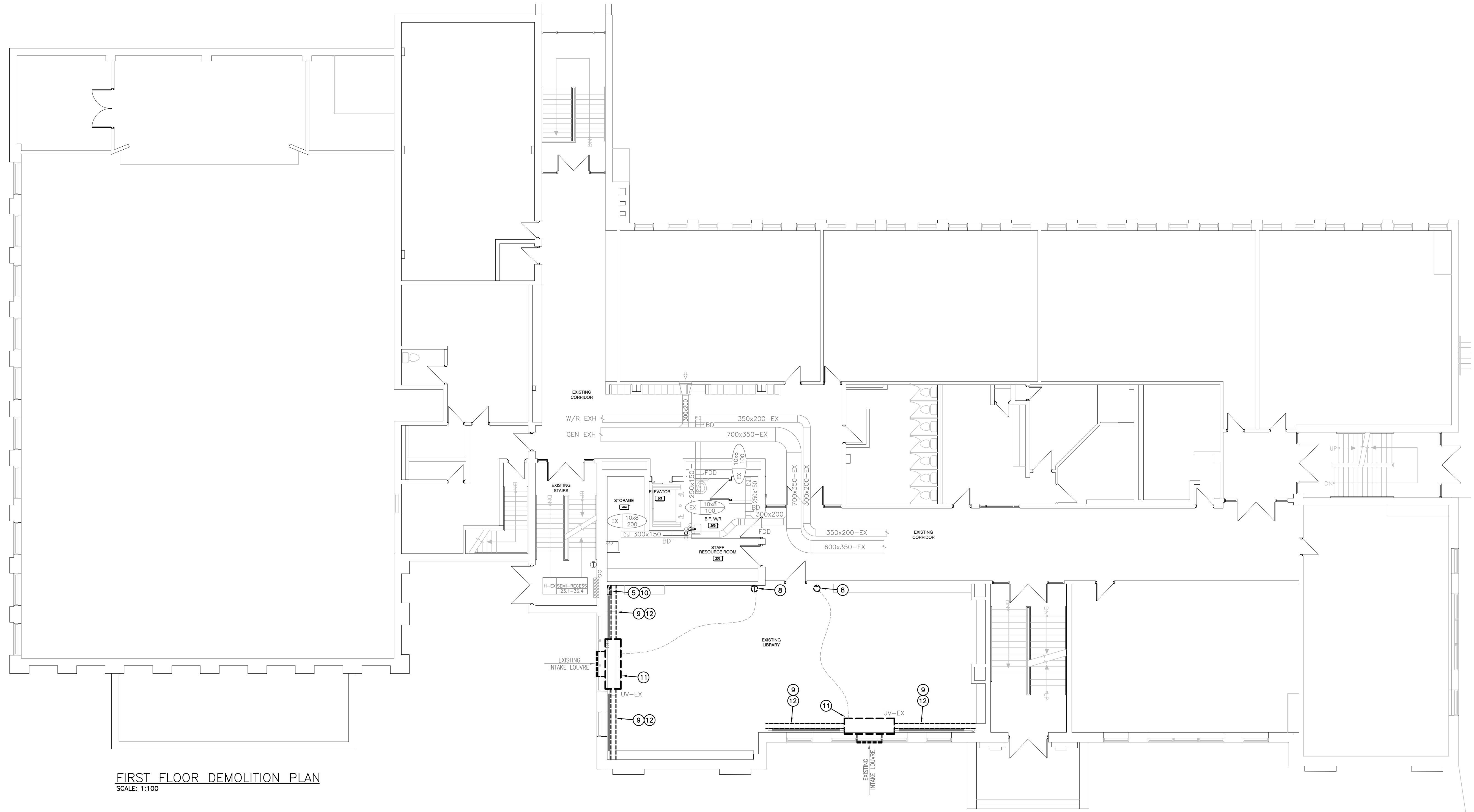
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 101 Ronald Drive, Unit 8, Waterloo, ON, N2L 2T1 | www.abaarchitects.com

CLIENT

PROJECT NAME
**COURTLAND PUBLIC SCHOOL
 MECH UPGRADES**
 107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

DRAWING TITLE
**FIRST FLOOR
 DEMOLITION PLAN**

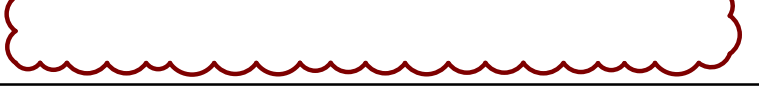
SCALE	DRAWING NUMBER
AS NOTED	M2.2
SHEET SIZE	
PROJECT NUMBER	
24x36	
22320	

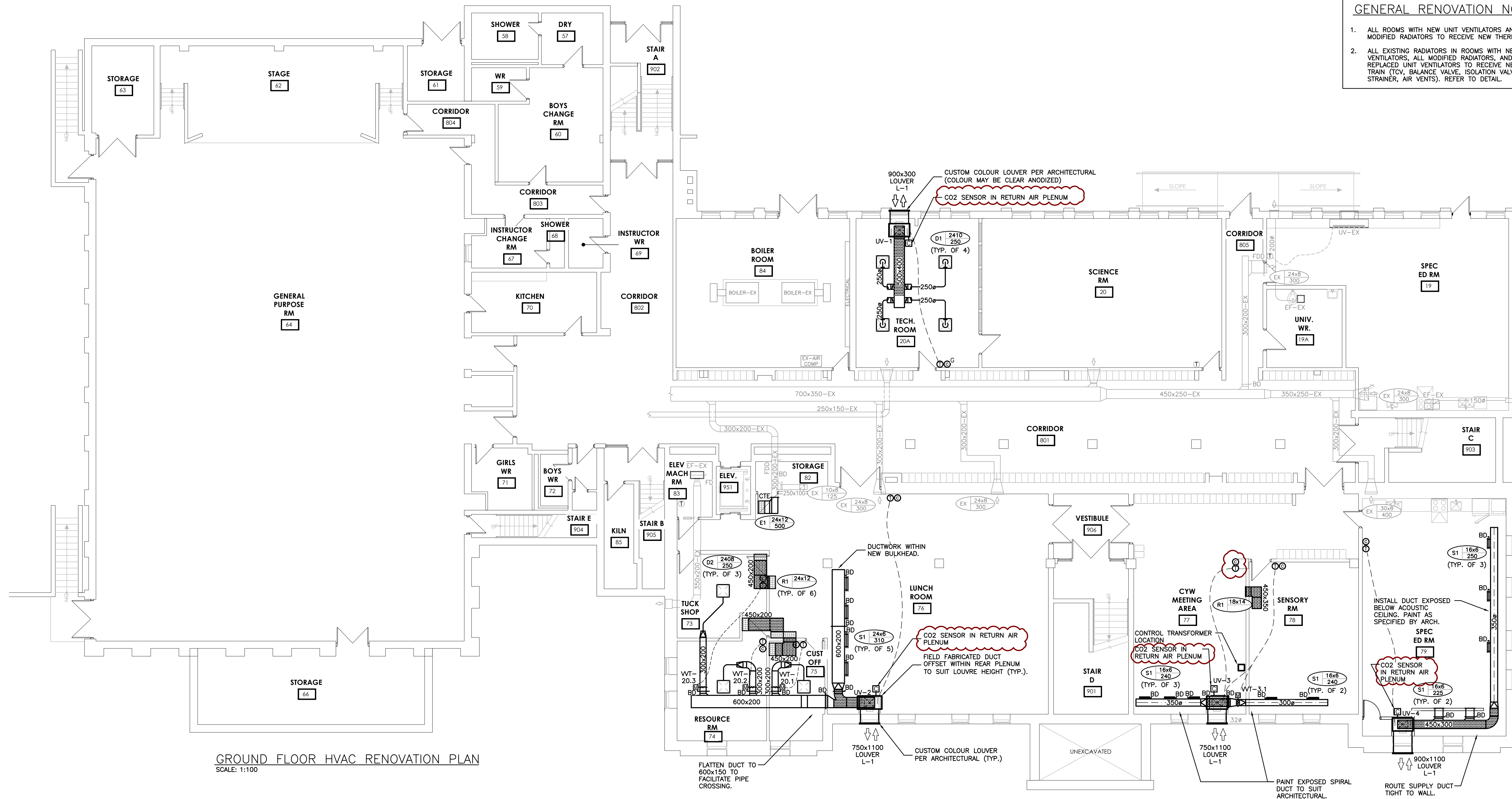


FIRST FLOOR DEMOLITION PLAN
 SCALE: 1:100

SPECIFIC DEMOLITION NOTES

5. REMOVE EXISTING CONTROL, BALANCE, AND ISOLATION VALVE, ETC. FOR REPLACEMENT WITH NEW.
8. REMOVE EXISTING THERMOSTAT FOR REPLACEMENT WITH NEW WHERE EXISTING THERMOSTATS ARE PNEUMATIC. PROPERLY CAP PNEUMATIC LINES. NEW THERMOSTATS TO BE DIGITAL.
9. CLEAN EXISTING RADIATOR TUBES AND FINS.
10. CUT BACK EXISTING RAD AS INDICATED TO FACILITATE INSTALLATION OF CHASE WALL.
11. REMOVE EXISTING UNIT VENTILATOR COMPLETE.
12. MILLWORK IN FRONT OF EXISTING RAD IS BEING REMOVED FOR REPLACEMENT WITH NEW. REMOVE EXISTING PENCIL GRILLE COMPLETE.





GROUND FLOOR HVAC RENOVATION PLAN
SCALE: 1:100

GENERAL RENOVATION NOTES

- ALL ROOMS WITH NEW UNIT VENTILATORS AND/OR MODIFIED RADIATORS TO RECEIVE NEW THERMOSTAT.
- ALL EXISTING RADIATORS IN ROOMS WITH NEW UNIT VENTILATORS, ALL MODIFIED RADIATORS, AND ALL REPLACED UNIT VENTILATORS TO RECEIVE NEW VALVE TRAIN (COV, BALANCE VALVE, ISOLATION VALVES, STRAINER, AIR VENTS). REFER TO DETAIL.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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Phone: 519-745-3555
Website: deiassociates.ca
Project Number: 2330

aba architects inc.
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CLIENT

PROJECT NAME

**COURTLAND PUBLIC SCHOOL
MECH UPGRADES**

107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

DRAWING TITLE

**GROUND FLOOR
HVAC RENOVATION
PLAN**

SCALE	DRAWING NUMBER
AS NOTED	M3.2
SHEET SIZE	
PROJECT NUMBER	

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
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GENERAL RENOVATION NOTES

1. ALL ROOMS WITH NEW UNIT VENTILATORS AND/OR MODIFIED RADIATORS TO RECEIVE NEW THERMOSTAT.
2. ALL EXISTING RADIATORS IN ROOMS WITH NEW UNIT VENTILATORS, ALL MODIFIED RADIATORS, AND ALL REPLACED UNIT VENTILATORS TO RECEIVE NEW VALVE TRAIN (TCV, BALANCE VALVE, ISOLATION VALVES, STRAINER, AIR VENTS). REFER TO DETAIL.

No.	REVISIONS	DATE

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ISSUED FOR ADDENDUM	2024.03.26
ISSUED FOR TENDER	2024.03.05
ISSUED FOR PERMIT	2024.02.23
CHRONOLOGY	DATE

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 Project Number: 2320

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 101 Ronald Drive, Unit 8, Waterloo ON, N2L 1R4 211 www.abarchitects.com

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PROJECT NAME

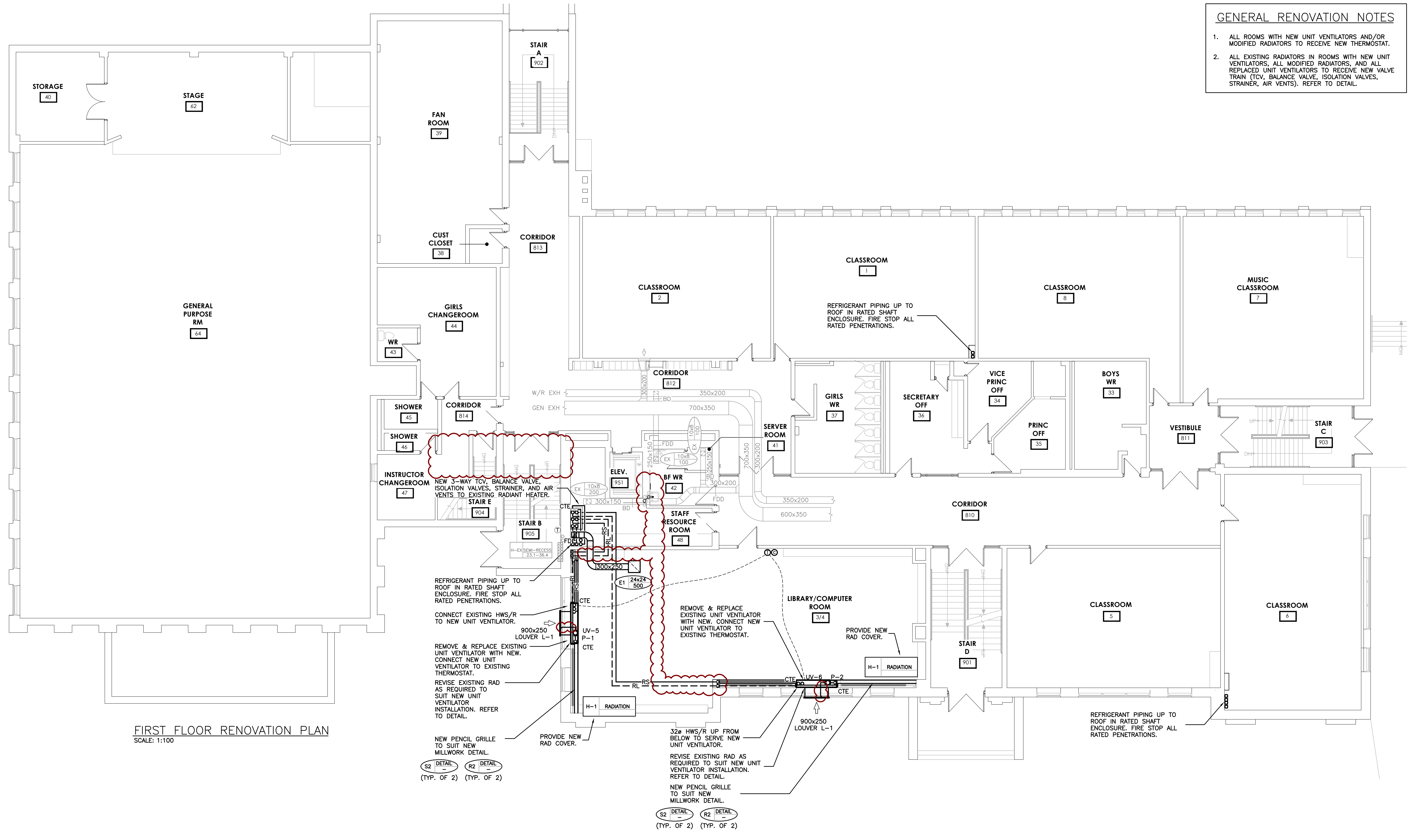
**COURTLAND PUBLIC SCHOOL
 MECH UPGRADES**

107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

DRAWING TITLE

**FIRST FLOOR
 RENOVATION PLAN**

SCALE	DRAWING NUMBER
AS NOTED	M3.3
SHEET SIZE	
PROJECT NUMBER	



FIRST FLOOR RENOVATION PLAN
 SCALE: 1:100

S2 DETAIL (TYP. OF 2) R2 DETAIL (TYP. OF 2)

S2 DETAIL (TYP. OF 2) R2 DETAIL (TYP. OF 2)

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 Project Number: 22320

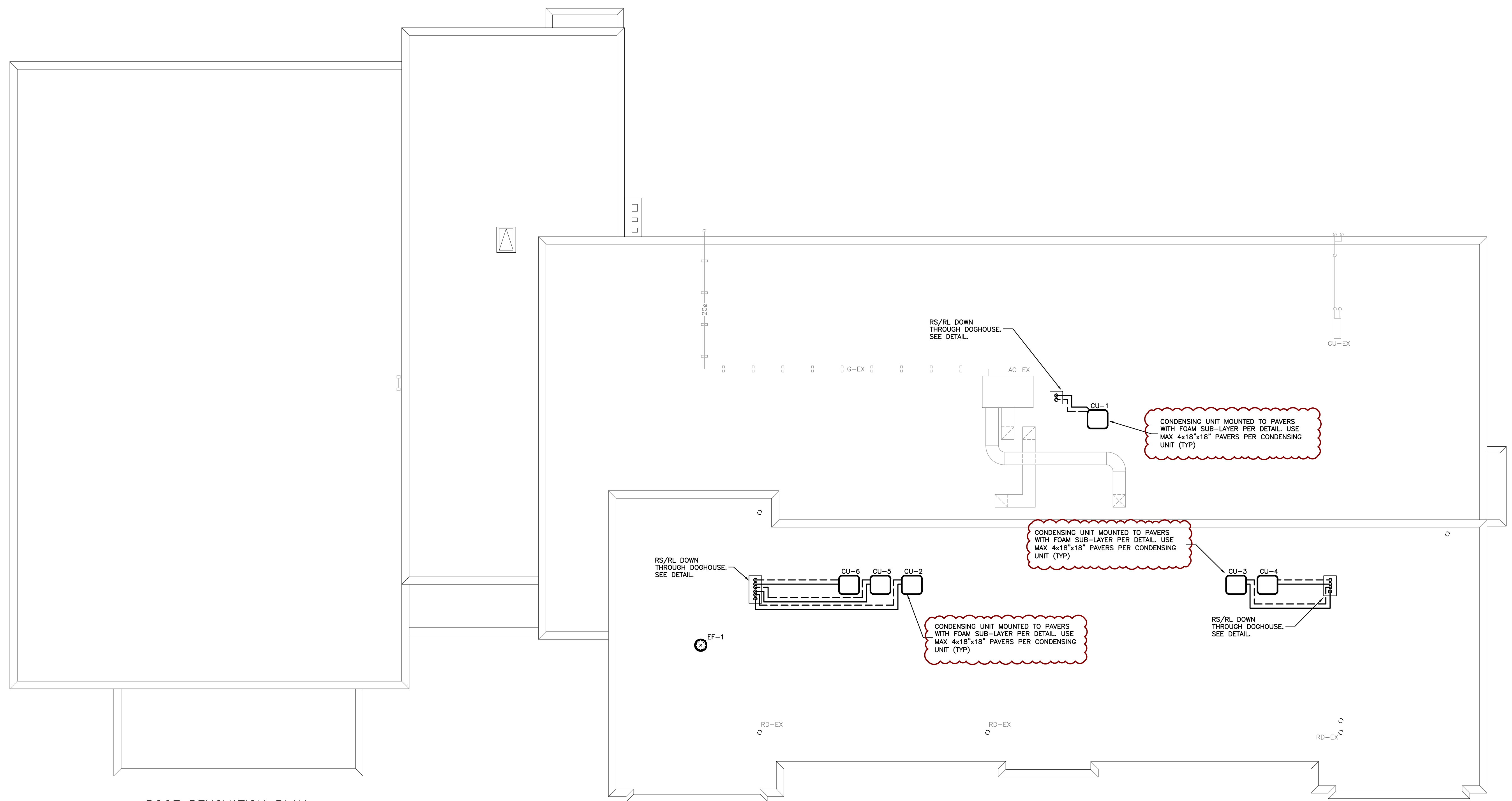
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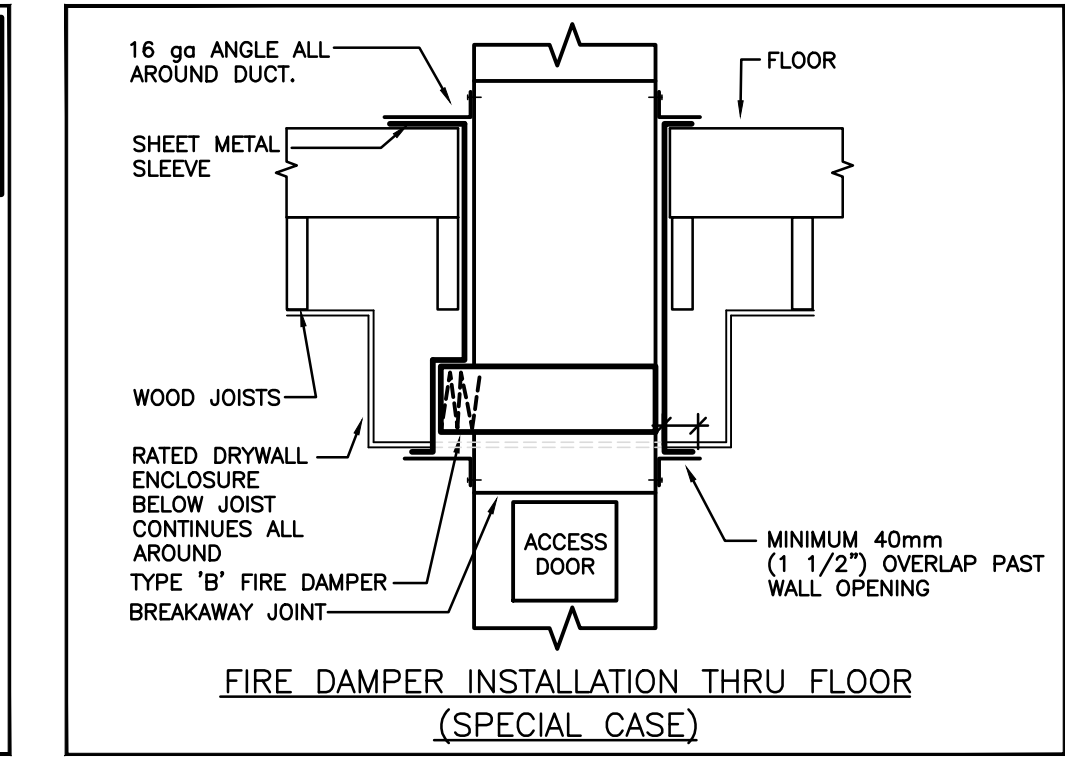
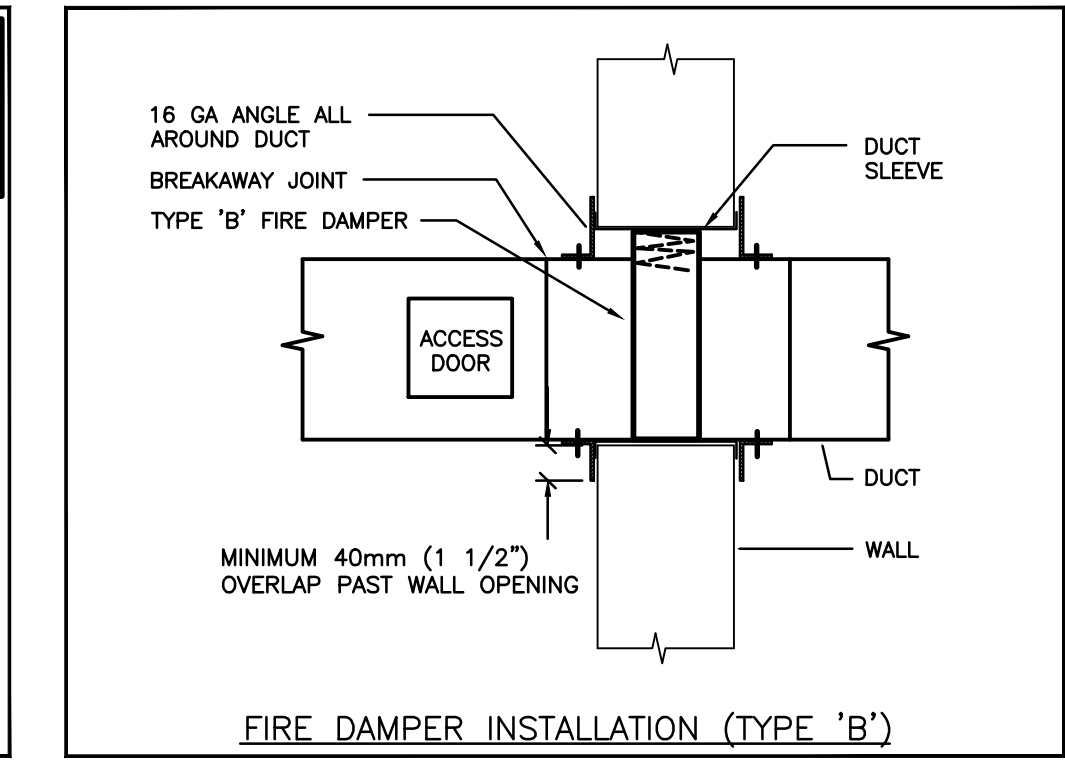
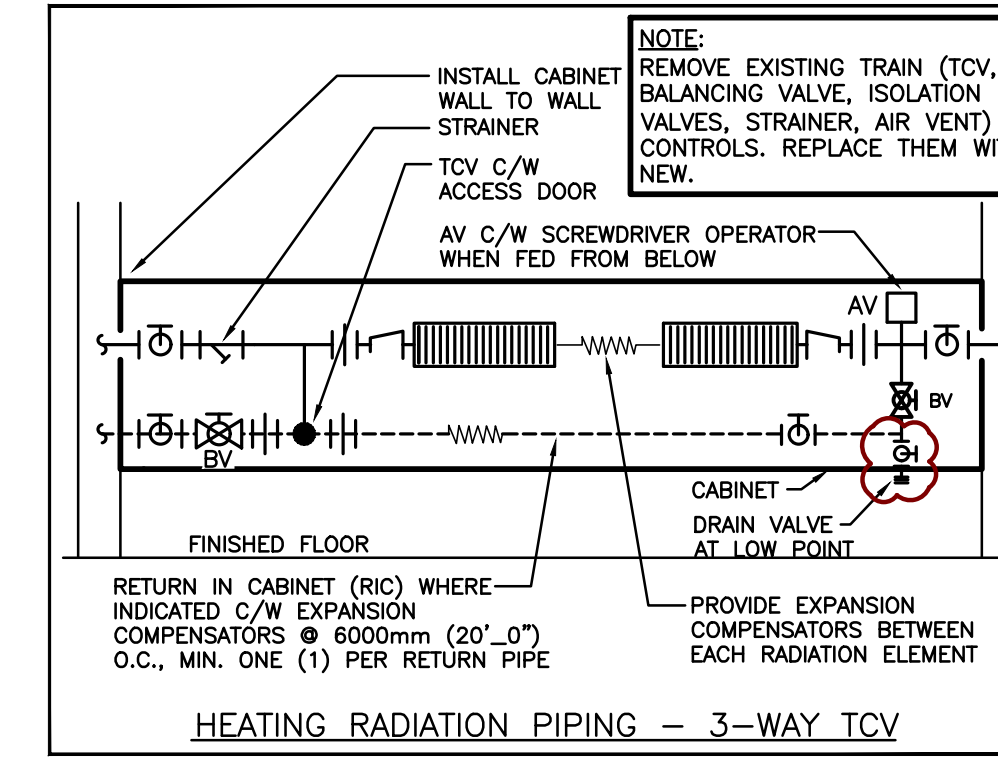
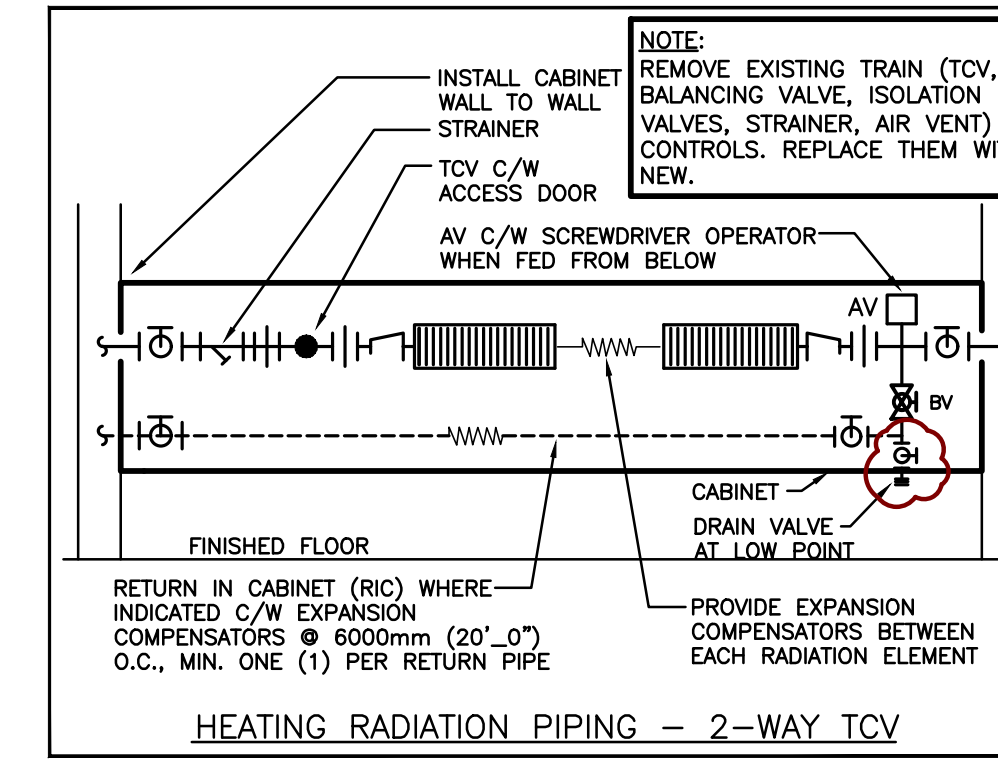
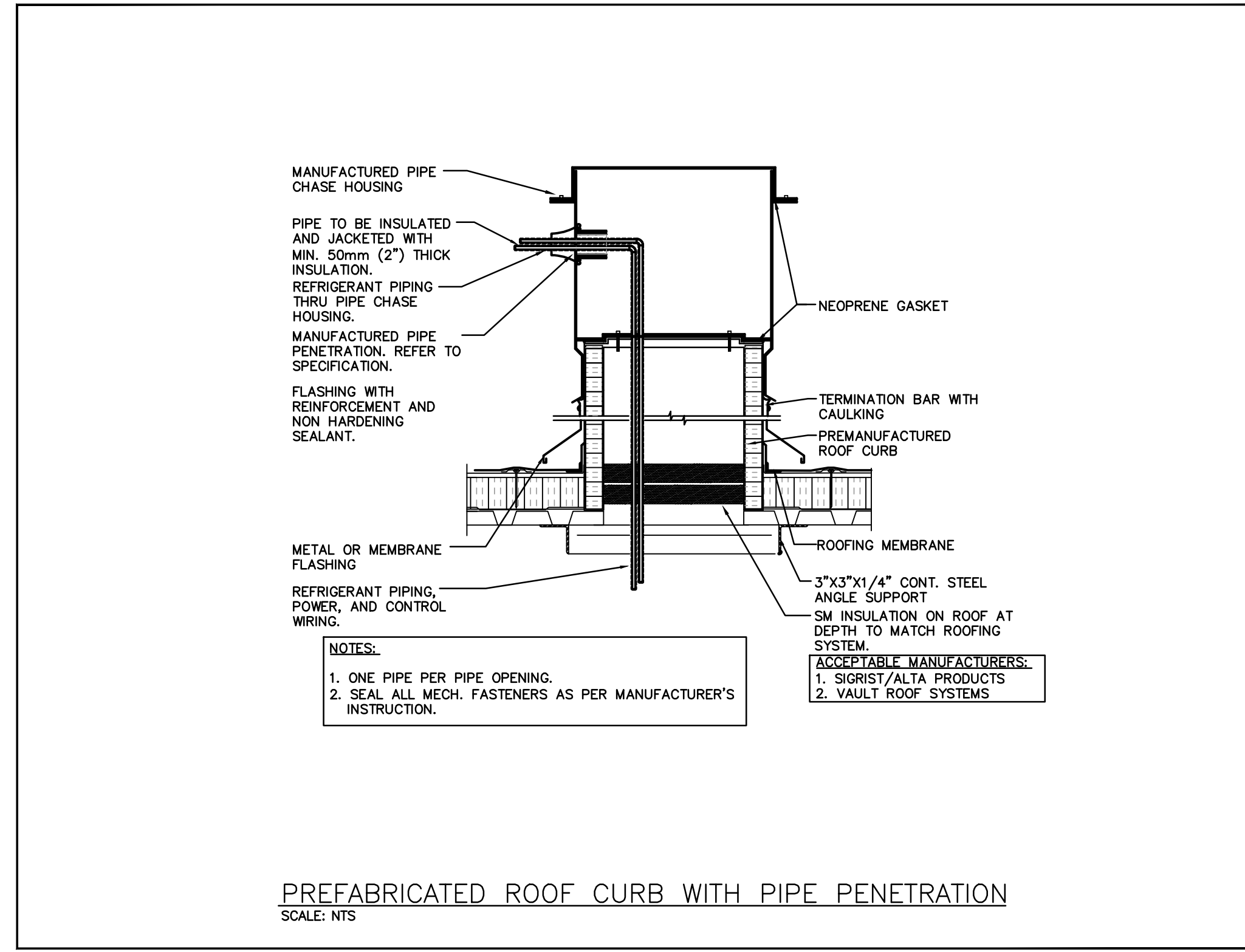
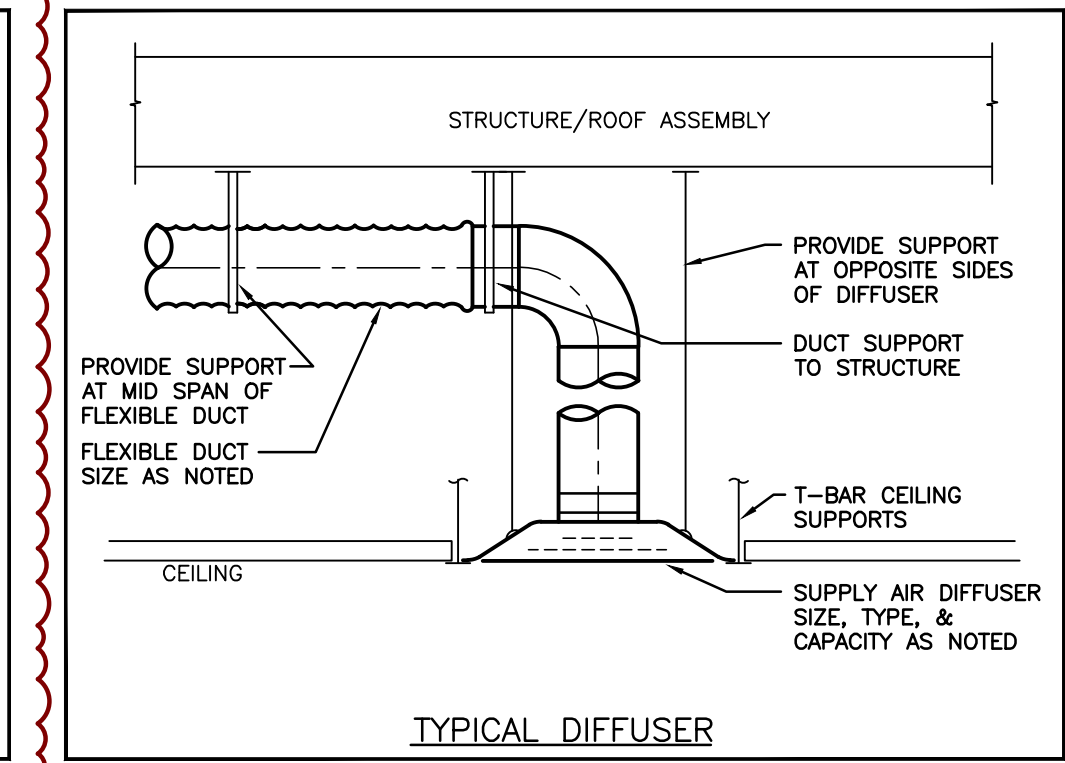
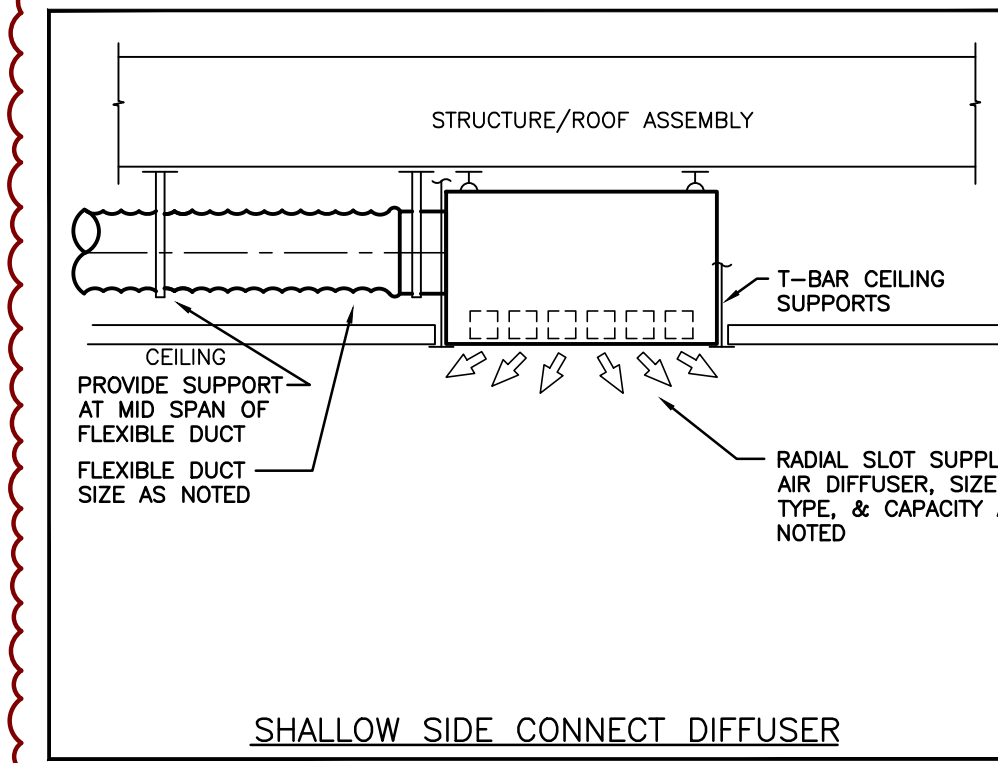
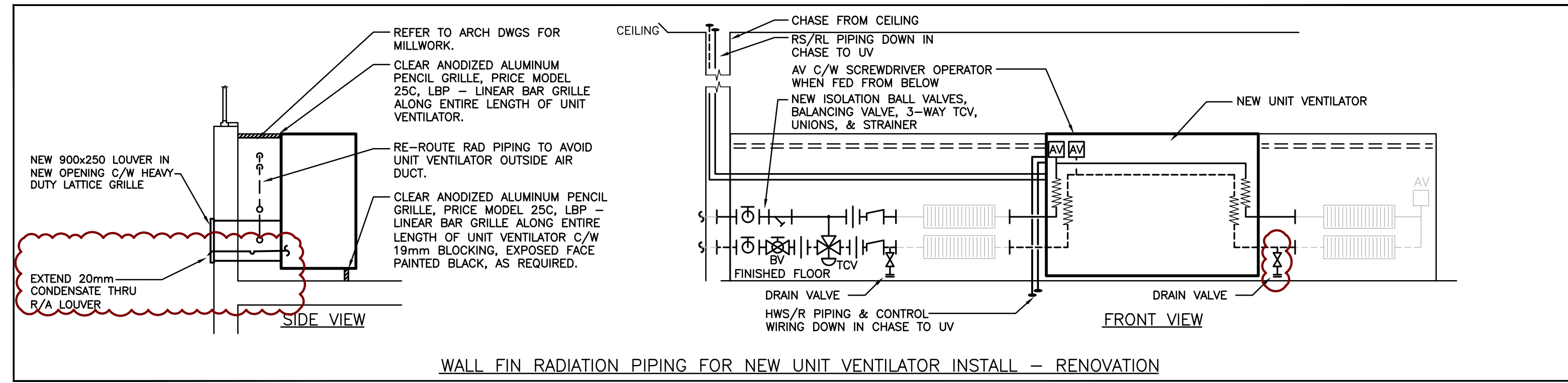
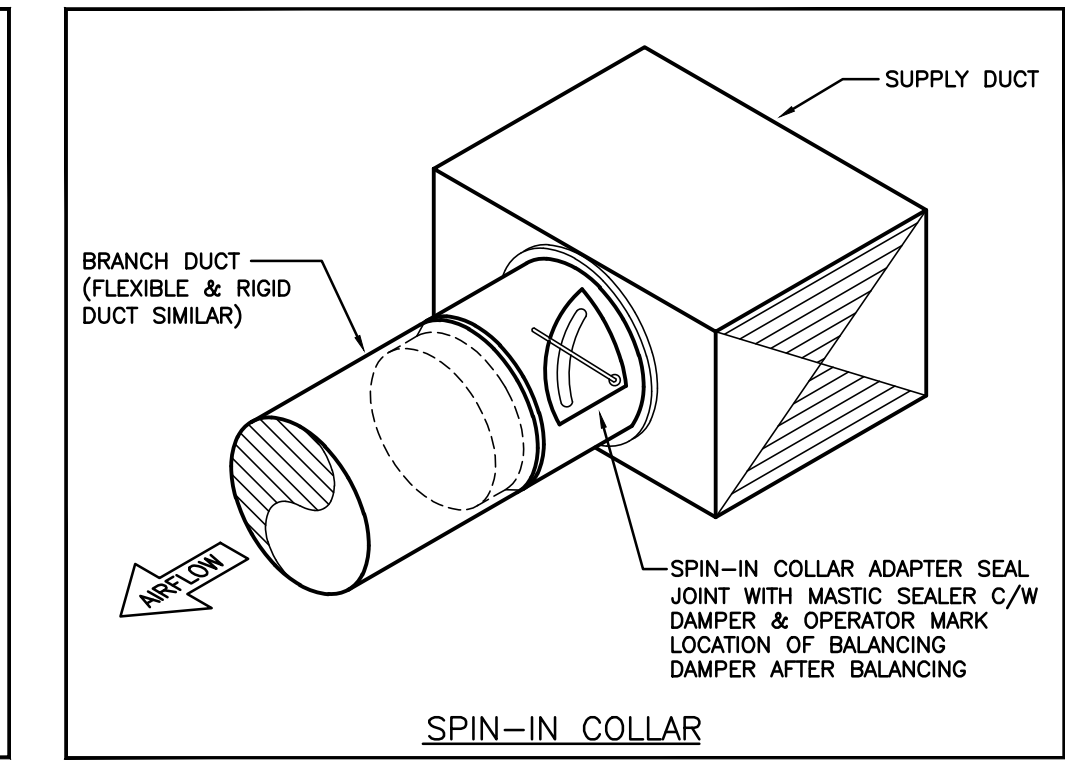
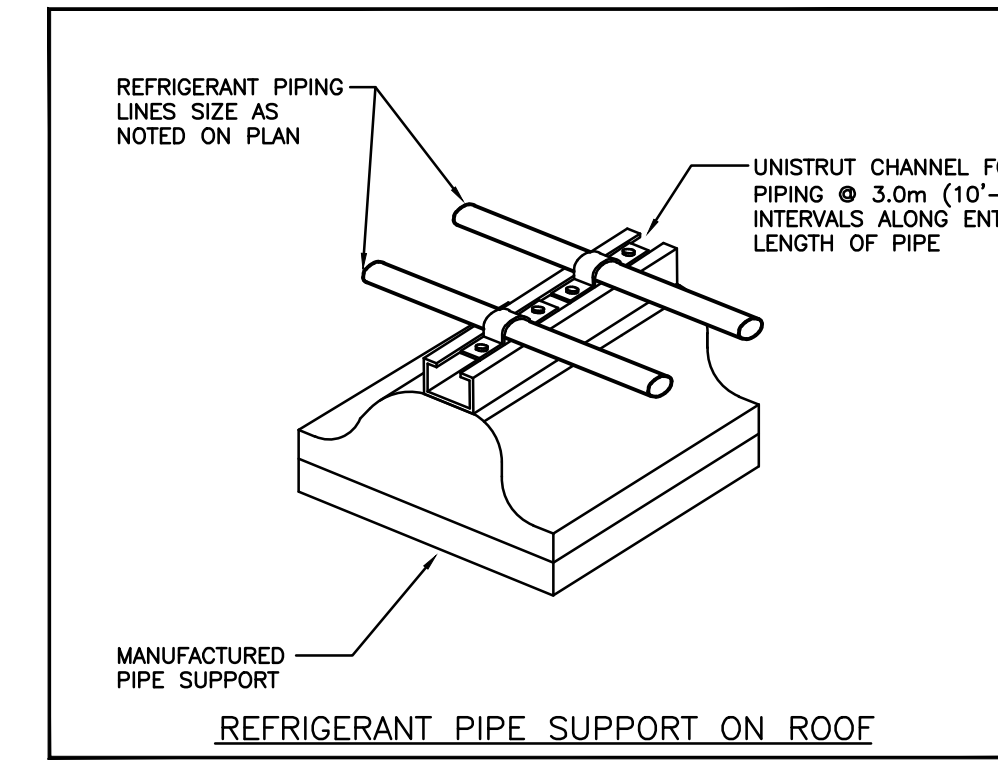
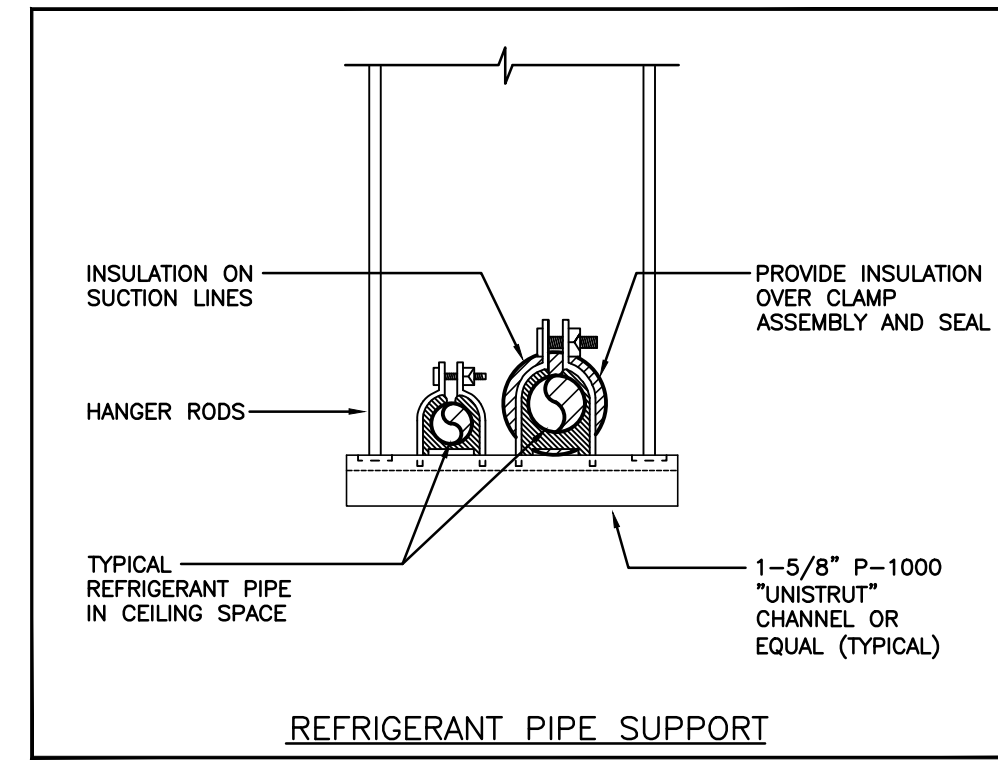
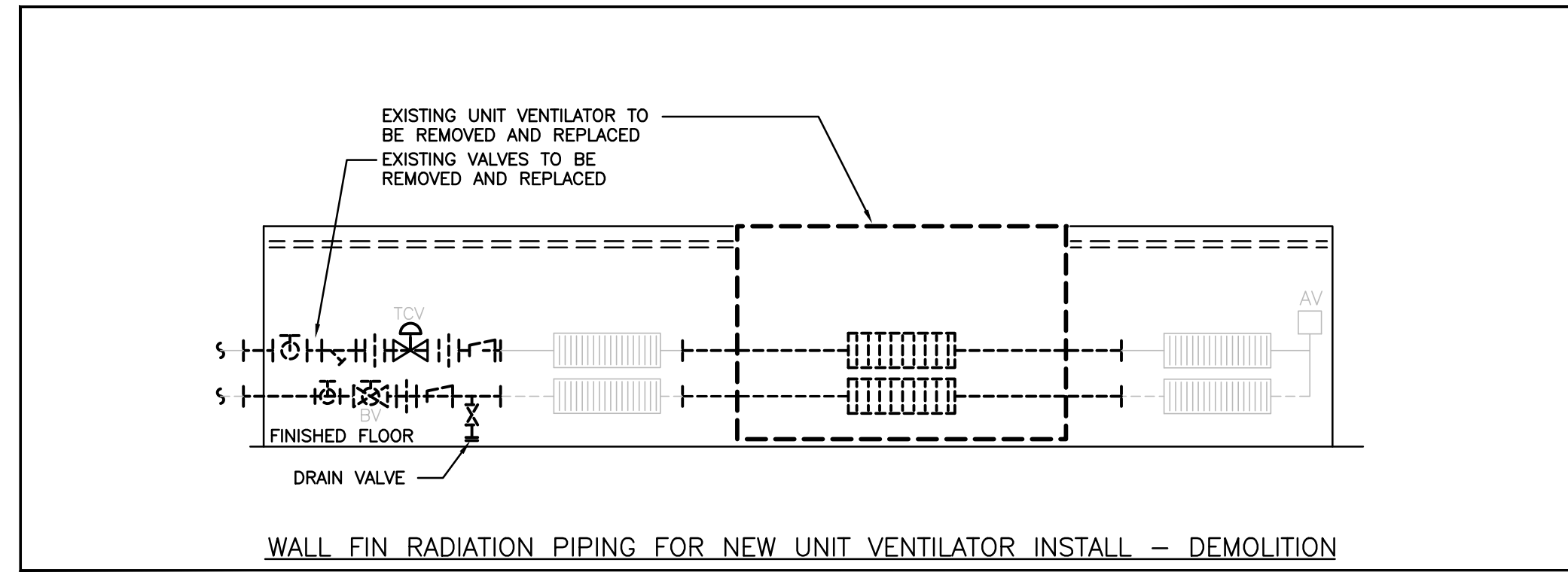
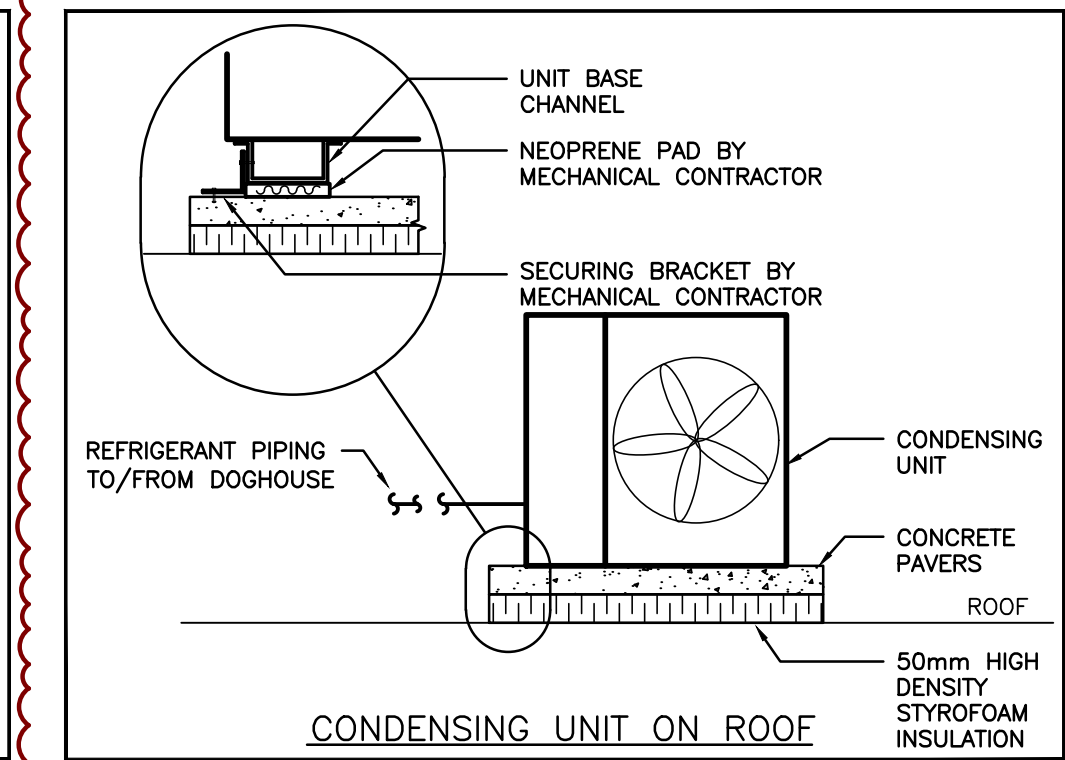
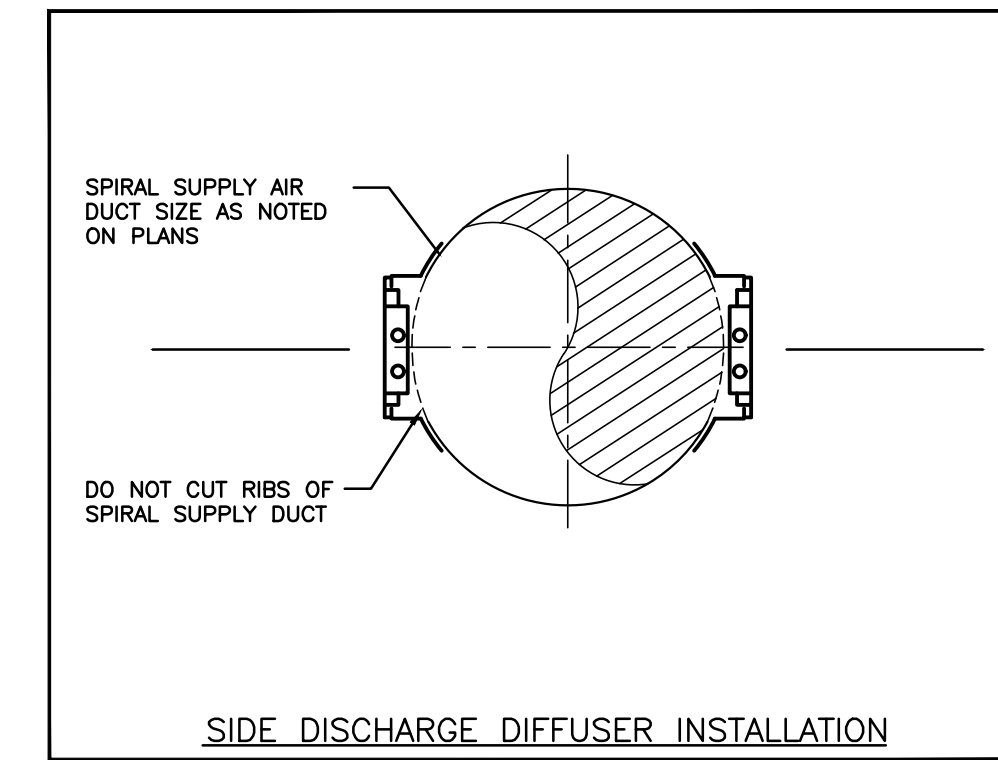
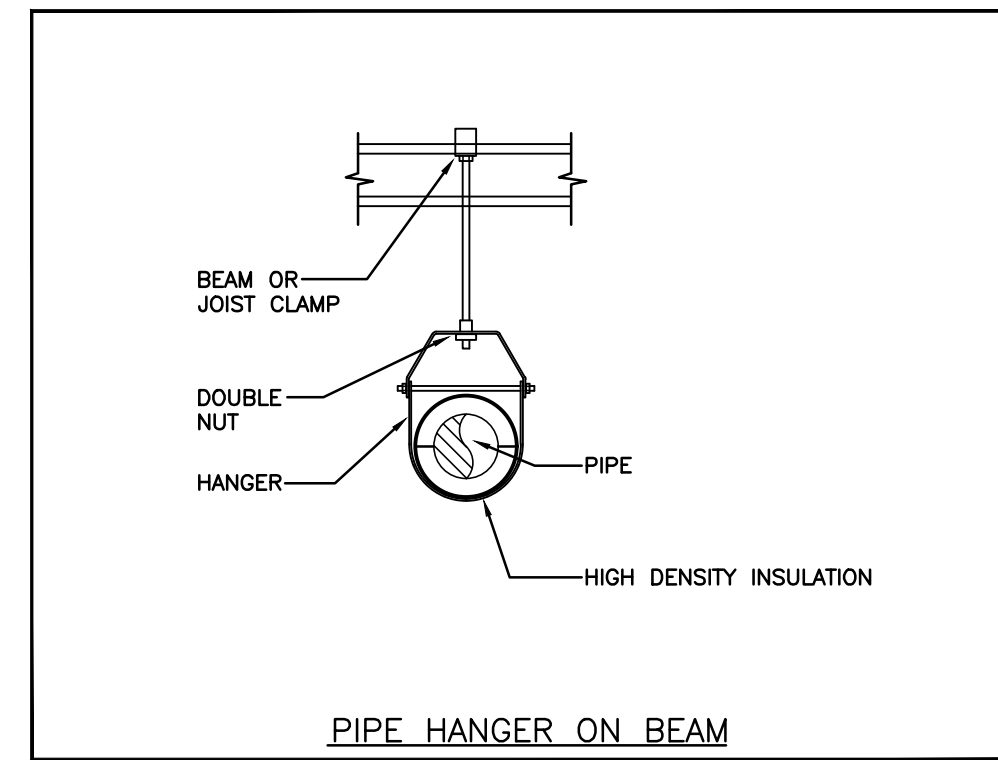
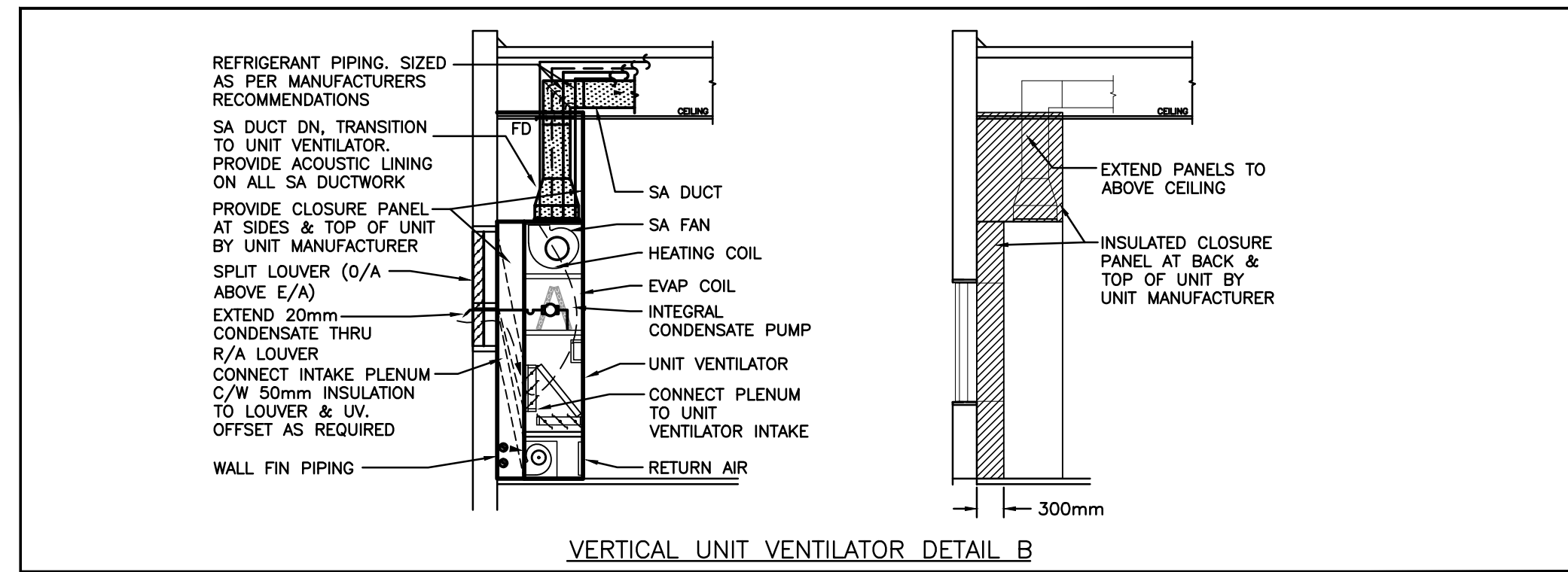
PROJECT NAME
**COURTLAND PUBLIC SCHOOL
 MECH UPGRADES**
 107 COURTLAND AVE. E., KITCHENER, ON. N2G 2T9

DRAWING TITLE
**ROOF RENOVATION
 PLAN**

SCALE	DRAWING NUMBER
AS NOTED	M3.5
SHEET SIZE	
PROJECT NUMBER	



ROOF RENOVATION PLAN
 SCALE: 1:100



The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

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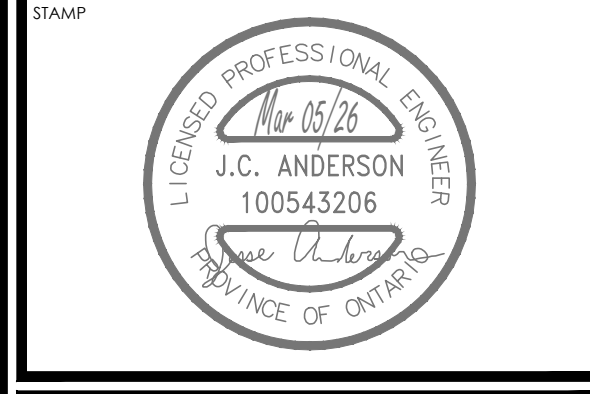
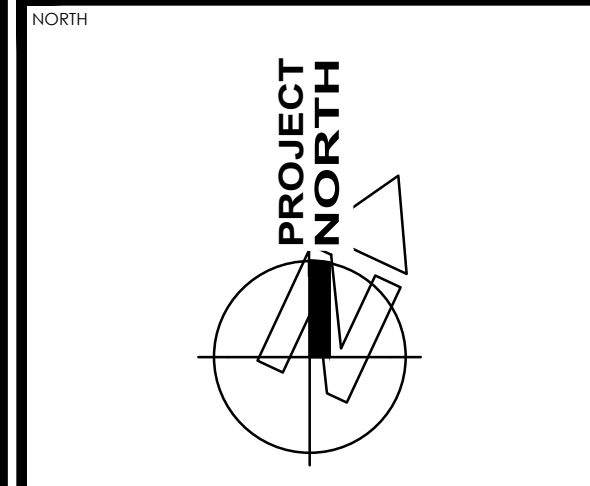
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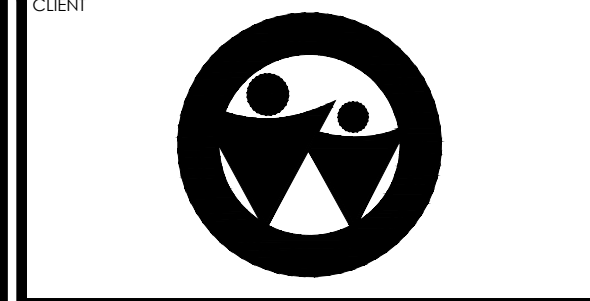


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PROJECT NAME
**COURTLAND PUBLIC SCHOOL
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DRAWING TITLE
**MECHANICAL
 DETAILS**

SCALE	DRAWING NUMBER
AS NOTED	
SHEET SIZE	
PROJECT NUMBER	

24x36
 22320

M4.1

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GENERAL RENOVATION NOTES

- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

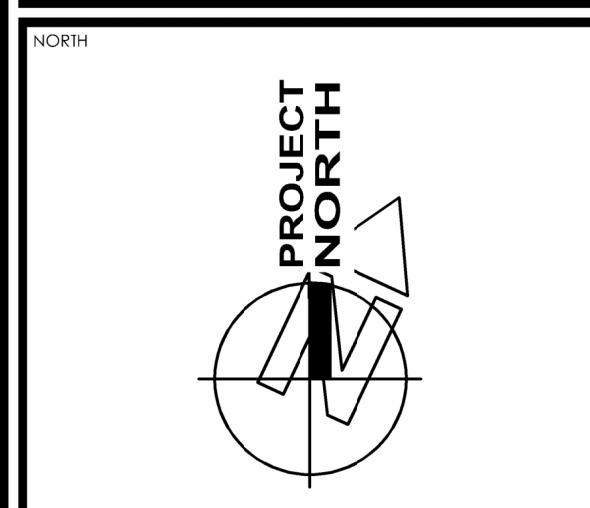
SPECIFIC RENOVATION NOTES

- 1 INDICATES APPROXIMATE LOCATION OF NEW FIRE RATED SHAFT. ALL EXISTING ELECTRICAL DEVICES ARE TO BE RELOCATED TO SUIT. EXTEND ALL EXISTING CONDUIT FEEDS THROUGH THIS AREA AS REQUIRED. INCLUDE FOR 1 DAY LABOUR AT EACH FLOOR.
- 2 CONNECT FIXTURES WITHIN THIS AREA TO LIGHTING CIRCUIT MADE AVAILABLE DURING DEMOLITION AND EXTEND EXISTING CIRCUITS AS REQUIRED. RUN NEW CONTROL WIRING AS PER RENOVATION PLANS.
- 3 INDICATES DIGITAL ROOM CONTROLLER(S) INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED OCCUPANCY SENSOR(S). REFER TO LIGHTING CONTROL DETAILS.
- 4 MOUNT NEW DIGITAL LIGHTING SWITCH IN EXISTING BACKBOX MADE AVAILABLE DURING DEMOLITION. PROVIDE CUSTOM COVER PLATE AS REQUIRED.

EXISTING LOCATION OF PANEL IS TO BE CONFIRMED WITH SCHOOL BOARD REPRESENTATIVE PRIOR TO INSTALLATION.

INDICATES NEW DIGITAL LIGHTING SWITCHES IN NEW BACKBOX. FISH WALL FOR INSTALLATION, IF WALL CANNOT BE FISHED, SUPPLY AND INSTALL SURFACE MOUNT WIREMOLD PER SPECIFICATIONS.

NO.	REVISIONS	DATE
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 Website: deiassociates.ca
 Project Number: 23320

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PROJECT NAME
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DRAWING TITLE
**FIRST FLOOR -
 RENOVATION**

SCALE	DRAWING NUMBER
AS NOTED	
SHEET SIZE	
PROJECT NUMBER	

E3.2



FIRST FLOOR PLAN – RENOVATION
 SCALE: 1:100