# STEWART AVENUE PUBLIC SCHOOL
# HVAC RENOVATIONS
# Tender No.: 7269-RW-22

## ARCHITECTURAL:
## WARD99 ARCHITECTS INC.


A0.0 PROJECT INFORMATION AND O.B.C. MATRIX PART 11
A1.1 EXISTING SITE MOBILIZATION, KEY PLAN, AND PARTIAL PROPOSED ROOF PLAN, LEGEND AND NOTES
A2.1 PARTIAL GROUND FLOOR DEMOLITION PLAN AND REFLECTED CEILING DEMOLITION PLAN AND LEGEND
A2.2 PARTIAL PROPOSED GROUND FLOOR PLAN AND REFLECTED CEILING PLAN, LEGEND AND NOTES
A3.1 TYPICAL CLASSROOM INTERIOR ELEVATIONS AND PROPOSED EXTERIOR ELEVATIONS
A4.1 BUILDING SECTIONS AND DETAIL
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## STRUCTURAL:
## VX ENGINEERING INC.


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S2 PART ROOF FRAMING PLAN
S3 UNITS & OPENING FRAMING DETAILS IN EXISTING WOOD DECK ROOF
S4 GENERAL NOTES


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## DEI CONSULTING ENGINEERS


M1.1 KEY PLAN, LEGEND, AND SCHEDULES
M2.1 GROUND FLOOR DEMOLITION
M3.1 GROUND FLOOR RENOVATION AND ROOF PLAN
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## DEI CONSULTING ENGINEERS


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E1.2 ELECTRICAL DEMOLITION AND RENOVATION PLANS
E1.3 SCHEDULE
E2.1 SPECIFICATIONS
E2.2 SPECIFICATIONS



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**Name of Project:**
STEWART AVENUE PUBLIC SCHOOL:
HVAC RENOVATIONS
Waterloo Region District School Board

**Location:** 145 Stewart Avenue, Cambridge ON, N1R 2V5

| | | Ontario 2012 Building Code Data Matrix<br>Part 11 - Renovation of Existing Building | Building Code Reference |
|---|---|---|---|
| 11.0 | Building Code Version: | O. Reg. 332/12 Last Amendment: O Reg. 191/14 | |
| 11.01 | Project Type: | ☐ Addition ☒ Renovation ☐ Addition and Renovation<br>☐ Change of use<br>Description: Interior renovation to portion of existing one storey school building to provide HVAC upgrades to seven classrooms. | [A]1.1.2. |
| 11.02 | Major Occupancy Classification: | Occupancy: Group A, Division 2 Use: Elementary School *Closest Classification: O.B.C. 3.2.2.25. Group A, Division 2, up to 2 storeys | 3.1.2.1.(1) |
| 11.03 | Superimposed Major Occupancies: | ☒ No ☐ Yes<br>Description: | 3.2.2.7 |
| 11.04 | Building Area (m²) | Description: Existing New Total<br>Building Area (m²): 5,155.72 m² 0 m² 5,155.72 m² | [A]1.4.1.2. |
| 11.05 | Building Height | 1 Storey Above Grade 3.75 (m) Above Grade<br>0 Storey Below Grade | [A]1.4.1.2. & 3.2.1.1. |
| 11.06 | Number of Streets/ Firefighter Access | 1 Street(s) | 3.2.2.10. & 3.2.5. |
| 11.07 | Building Size | ☐ Small ☒ Medium ☐ Large ☐ >Large | T.11.2.1.1.B.-N. |
| 11.08 | Existing Building Classification: | Change in Major Occupancy: ☐ Yes ☒ Not Applicable (no change of major occupancy)<br>Construction Index: -<br>Hazard Index: -<br>Importance Category: ☐ Low ☐ Normal ☒ High ☐ Post-disaster<br>*Building is an elementary school. | 11.2.1.1.<br>T 11.2.1.1.A.<br>T 11.2.1.1B TO N<br>4.2.1.(3).<br>5.2.2.1.(2) |
| 11.09 | Renovation Type: | ☐ Basic Renovation ☒ Extensive Renovation | 11.3.3.1.<br>11.3.3.2. |
| 11.10 | Occupant Load: | *No change to occupant load. | 3.1.17.1 |
| 11.11 | Plumbing Fixture Requirement: | Ratio: M/F = 1/1 Except as otherwise noted<br>*No changes to existing plumbing fixtures. | |
| 11.12 | Barrier-free Design: | ☒ Yes ☐ No Explanation: renovation complies with OBC 3.8. | 11.3.3.2 (2) |
| 11.13 | Reduction in Performance Level: | Structural: ☒ No ☐ Yes<br>By Increase in Occupant Load: ☒ No ☐ Yes<br>By Change of Major Occupancy: ☒ No ☐ Yes<br>Plumbing: ☒ No ☐ Yes<br>Sewage-System: ☒ No ☐ Yes<br>Extension of combustible construction: ☒ No ☐ Yes | 11.4.2.1<br>11.4.2.2<br>11.4.2.3<br>11.4.2.4<br>11.4.2.5<br>11.4.2.6 |
| 11.14 | Compensating Construction: | ☒ No ☐ Yes<br>Structural: ☒ No ☐ Yes (explain)<br>Increase in Occupant Load: ☒ No ☐ Yes (explain)<br>Change of Major Occupancy: ☒ No ☐ Yes (explain)<br>Plumbing: ☒ No ☐ Yes (explain)<br>Sewage-System: ☒ No ☐ Yes (explain)<br>Extension of Combustible Construction: ☒ No ☐ Yes (explain) | 11.4.3.1<br>11.4.3.2<br>11.4.3.3<br>11.4.3.4<br>11.4.2.5<br>11.4.3.6<br>11.4.3.7. |
| 11.15 | Compliance Alternatives Proposed: | ☒ No ☐ Yes (list numbers and describe) | 11.5.1 |
| 11.16 | Notes: | Renovations to the existing non-sprinklered school building; closest classification is as follows: O.B.C. Classification: 3.2.2.25. Group A, Division 2, up to 2 Storeys.<br>- The building is permitted to be of non-combustible construction or combustible construction.<br>- Floor assemblies shall have fire separations and if of combustible construction shall have a fire-resistance rating not less than 45 minutes and<br>- Mezzanines if of combustible construction shall have a fire-resistance rating not less than 45 minutes and<br>- Roof assemblies if of combustible construction shall have a fire-resistance rating not less than 45 minutes except that a building not more than 1 storey in height, the fire rating may be waived provided the roof assembly is constructed as a fire-retardant treated wood roof system with exceptions as noted in O.B.C. 3.2.2.25.<br>- All load-bearing walls, columns and arches shall have a fire-resistance rating not less than 45 minutes or be of non-combustible construction.<br><br>*Note: The existing building area of the one storey school exceeds the maximum allowable building area for a one storey school facing 1 street.<br><br>*Note: The existing building classrooms provide for a wood deck at the existing roof assembly. Existing fire-rated ceiling assemblies at the roof level in existing classrooms will remain and will be patched to provide for a 1 hour fire-resistance rating at the roof level where there are roof penetrations.<br><br>3.3.2.5.(3) Corridors: The 1 hour fire resistance rating, for the fire separation required at a corridor, in an assembly occupancy, is permitted to be waived if the floor area in which the corridor is located is sprinklered. *Note: the existing school is not sprinklered and in such a 1 hour F.R.R. is required at the corridor walls. | 11.5.1 |

## PROJECT INFORMATION

PROJECT TITLE:
STEWART AVENUE PUBLIC SCHOOL RENOVATIONS
WATERLOO REGION DISTRICT SCHOOL BOARD

PROJECT ADDRESS:
145 STEWART AVENUE, CAMBRIDGE, ONTARIO N1R 2V5

OWNER:
WATERLOO REGION DISTRICT SCHOOL BOARD

OWNER'S CONTACT INFORMATION:
51 ARDELT AVENUE, KITCHENER, ON N2C 2R5

CONSULTANT:
ward99 architects inc.

CONSULTANT 'S CONTACT INFORMATION:
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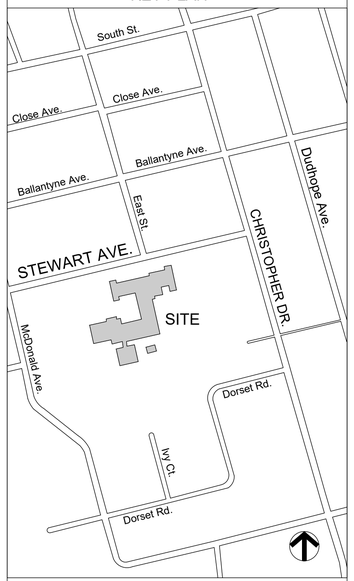
## KEY PLAN




CLOSEST MAIN INTERSECTION:
STEWART AVE. AND CHRISTOPHER DR.

NOTE: THIS DRAWING IS NOT TO BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL SITE DIMENSIONS AND FOR NOTIFYING THE ARCHITECT OF ANY SITE CONDITIONS AND SITE MEASUREMENTS THAT ARE NOT CONSISTENT WITH THE DRAWINGS.

| no. | revision | date |
|---|---|---|

ONTARIO ASSOCIATION OF ARCHITECTS
TINA RANIERI-D'OVIDIO
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5980

| no. | issue | date |
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| 1 | Issued for Schematic Design Report | April 19, 2021 |
| 2 | Issued for Permit and Tender | Jan. 31, 2022 |

project
WRDSB STEWART AVENUE PUBLIC SCHOOL HVAC RENOVATIONS
TENDER #7269-RW-22

WATERLOO REGION DISTRICT SCHOOL BOARD
145 STEWART AVE, CAMBRIDGE N1R 2V5

drawing
PROJECT INFORMATION AND O.B.C. MATRIX PART 11

drawing scale
N/A

ward99 project number
21009 - STEWART

ward99 architects

drawing no.
A0.0


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## ROOF LEGEND AND NOTES

| | |
|---|---|
| EX-GN | EX-GN = EXHAUST GOOSENECK. REFER TO MECHANICAL DRAWINGS. REFER TO ARCHITECTURAL DETAIL 1/A4.2. |
| CU - X | CU - X = OUTDOOR ROOF MOUNTED AIR COOLED CONDENSING UNIT. REFER TO MECHANICAL DRAWINGS. |
| | NEW REFRIGERATOR DOGHOUSE. REFER TO MECHANICAL DRAWINGS. REFER TO ARCHITECTURAL DETAIL 3/A4.2. |
| | 450mm X 450mm PRECAST CONCRETE PAVERS ON RIGID INSULATION. |

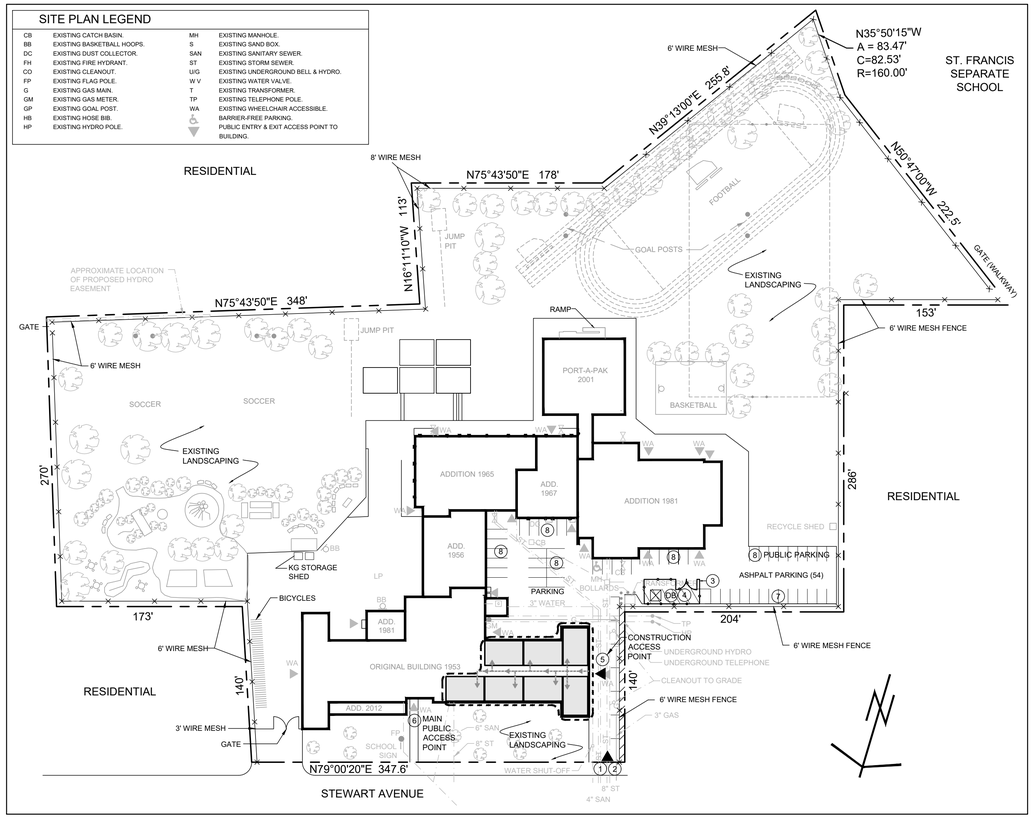
REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

REFER TO ASBESTOS AUDIT REPORTS FOR REQUIRED ABATEMENT AND HAZARDOUS REMOVALS. ALL ABATEMENT AT THE EXISTING ROOFING ASSEMBLY IS INCLUDED IN THE PROJECT BASE BID PRICE.

ROOFING MATERIALS CONTAIN ASBESTOS.

## SITE PLAN LEGEND

| | | | |
|---|---|---|---|
| CB | EXISTING CATCH BASIN. | MH | EXISTING MANHOLE. |
| BB | EXISTING BASKETBALL HOOPS. | S | EXISTING SAND BOX. |
| DC | EXISTING DUST COLLECTOR. | SAN | EXISTING SANITARY SEWER. |
| FH | EXISTING FIRE HYDRANT. | ST | EXISTING STORM SEWER. |
| CO | EXISTING CLEANOUT. | U/G | EXISTING UNDERGROUND BELL & HYDRO. |
| FP | EXISTING FLAG POLE. | W V | EXISTING WATER VALVE. |
| G | EXISTING GAS MAIN. | T | EXISTING TRANSFORMER. |
| GM | EXISTING GAS METER. | TP | EXISTING TELEPHONE POLE. |
| GP | EXISTING GOAL POST. | WA | EXISTING WHEELCHAIR ACCESSIBLE. |
| HB | EXISTING HOSE BIB. | | BARRIER-FREE PARKING. |
| HP | EXISTING HYDRO POLE. | | PUBLIC ENTRY & EXIT ACCESS POINT TO BUILDING. |




1 A1.1 EXISTING SITE MOBILIZATION AND CONSTRUCTION HOARDING PLAN
1:800

## SITE MOBILIZATION, ACCESS & CONSTRUCTION LEGEND

REFER TO SITE MOBILIZATION, ACCESS AND CONSTRUCTION NOTES ON DRAWING A1.1. REFER TO GENERAL FLOOR PLAN NOTES ON DRAWING A2.2.

ACCESS AND EXIT POINTS OF THE BUILDING

PATH TO AREA OF WORK
THE GENERAL CONTRACTOR IS TO CLEAN AND CLEAR THE PATH OF WORK (EXTERIOR AND INTERIOR) OF ANY OBSTRUCTION EVERYDAY AFTER WORK IS FINISHED. AFTER COMPLETION OF CONSTRUCTION, PATCH, REPAIR AND MAKE GOOD ALL SURFACES (EXTERIOR WALKS, DRIVEWAYS, CURBS AND LANDSCAPING AND INTERIOR CEILING, WALL AND FLOOR FINISHES), DOORS, LIGHT FIXTURES AND OTHER ITEMS DAMAGED DURING CONSTRUCTION.

DB TEMPORARY CONSTRUCTION DISPOSAL BIN:
TEMPORARY CONSTRUCTION DISPOSAL BIN IS TO BE LOCATED WITHIN THE MOBILIZATION AREA AT ALL TIMES. REPAIR AND MAKE GOOD ANY AND ALL EXISTING SURFACES DAMAGED DUE TO THE DELIVERY, PLACEMENT AND REMOVAL OF THE DISPOSAL BIN.

1 SITE ENTRY DRIVE:
DURING CONSTRUCTION, THE EXISTING PUBLIC ENTRY DRIVE IS FOR ACCESS BY WRDSB STAFF AND THE GENERAL CONTRACTOR DURING CONSTRUCTION. THE GENERAL CONTRACTOR IS TO KEEP THIS ACCESS DRIVE FREE FROM DEBRIS AT ALL TIMES. ANY DAMAGE TO THIS DRIVE OR TO THE SITE DUE TO THE OCCUPATION AND USE BY THE GENERAL CONTRACTOR AND SUBCONTRACTORS IS TO BE REPAIRED AND MADE GOOD BEFORE CONSTRUCTION IS COMPLETED.

2 DRIVEWAY ACCESS:
THIS EXISTING DRIVEWAY WILL BE USED BY WRDSB STAFF FOR SCHOOL PARKING ACCESS. THE EXISTING DRIVE WILL ALSO BE USED BY THE GENERAL CONTRACTOR FOR CONSTRUCTION ACCESS TO THE REAR MOBILIZATION AND CONSTRUCTION PARKING AREA. THIS ENTRY DRIVE MUST REMAIN CLEAR AND FREE OF DEBRIS, CONSTRUCTION MATERIALS AND CONSTRUCTION VEHICLES AT ALL TIMES TO ENSURE ACCESS IS AVAILABLE BY STAFF.

3 CONSTRUCTION FENCING:
TEMPORARY CONSTRUCTION FENCING IS TO BE ERECTED BY THE GENERAL CONTRACTOR TO ENCLOSE THE CONSTRUCTION MOBILIZATION AREA AND TO KEEP IT SEPARATE FROM THE SITE AND TO PREVENT PUBLIC ACCESS TO THIS AREA. CONSTRUCTION FENCING IS TO REMAIN ON SITE FOR THE DURATION OF THE CONSTRUCTION. THE GENERAL CONTRACTOR IS TO KEEP THIS AREA ORGANIZED AND FREE FROM DEBRIS AT ALL TIMES. ANY DAMAGE TO THE SITE AREA DUE TO ITS OCCUPATION AND USE BY THE GENERAL CONTRACTOR AND SUBCONTRACTORS IS TO BE REPAIRED AND MADE GOOD BEFORE CONSTRUCTION IS COMPLETED.
PROVIDE THE FOLLOWING TEMPORARY CONSTRUCTION FENCING:
- STURDY, HEAVY-DUTY GALVANIZED CHAIN LINK PANELS AND GATES WITH A MINIMUM HEIGHT OF 6'-0" AND SECURED WITH STURDY STEEL GROUND STANDS AND U-CLAMPS.
- CHAIN LINK PANELS MANUFACTURED BY FAST FENCE INC. OR EQUIVALENT MANUFACTURER THAT CAN PROVIDE THE SAME PRODUCT AS INDICATED.

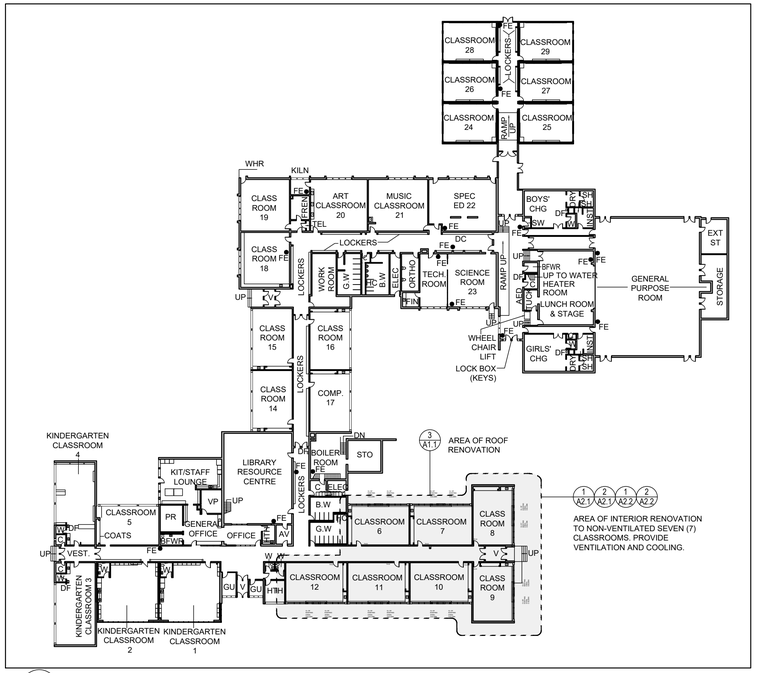
4 TEMPORARY CONSTRUCTION MOBILIZATION AREA:
THIS AREA IS A CONSTRUCTION ZONE FOR USE BY THE GENERAL CONTRACTOR ONLY AS A CONSTRUCTION MOBILIZATION ZONE AND STORAGE FOR LONG TERM DISPOSAL BINS AND FOR ENCLOSED STORAGE CONTAINERS. THE GENERAL CONTRACTOR IS TO PROVIDE STORAGE CONTAINERS AS REQUIRED TO STORE MATERIALS. THIS AREA IS TO BE ENCLOSED WITH PERIMETER CONSTRUCTION FENCING (SEE NOTE 3). PROVIDE CONSTRUCTION GATES AS REQUIRED TO ACCESS THE MOBILIZATION AREA.

5 CONSTRUCTION ACCESS POINT TO THE BUILDING:
THIS EXISTING ENTRY DOOR IS TO BE USED AS THE ONLY DAILY CONSTRUCTION ENTRY POINT TO THE SCHOOL BUILDING BY THE GENERAL CONTRACTOR DURING CONSTRUCTION. ANY HEAVY OR LARGE CONSTRUCTION DELIVERIES INTENDED FOR INSTALLATION IN THE BUILDING CAN ENTER THE BUILDING THROUGH THIS MAIN CONTRACTOR ACCESS POINT. CONSTRUCTION ENTRY POINT TO BE CONFIRMED WITH WRDSB STAFF AT TIME OF AWARD OF CONTRACT.

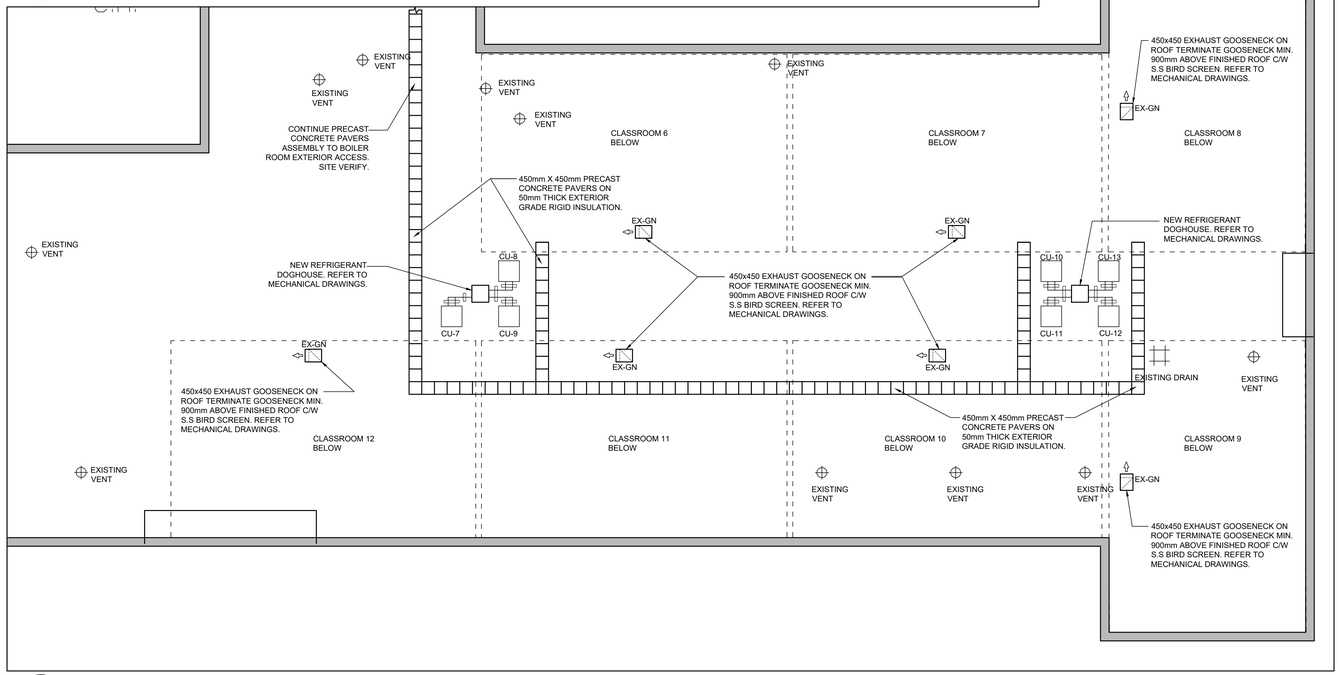
6 MAIN PUBLIC ACCESS POINT TO THE BUILDING:
THIS IS THE MAIN PUBLIC ENTRY POINT TO THE SCHOOL. THIS ACCESS POINT IS FOR USE BY SCHOOL STAFF AND THE PUBLIC. THE GENERAL CONTRACTOR SHALL NOT ACCESS THIS ENTRY POINT FOR CONSTRUCTION USE, UNLESS GIVEN PERMISSION TO DO SO BY WRDSB.

7 CONSTRUCTION PARKING AREA:
THE EXISTING SCHOOL PARKING SPACES TO THE NORTH SIDE OF THE PARKING LOT CAN BE UTILIZED BY CONSTRUCTION PERSONNEL. THE GENERAL CONTRACTOR MUST KEEP THIS AREA CLEAR AND FREE FROM DEBRIS AT ALL TIMES.

8 PUBLIC PARKING AREA:
THE EXISTING SCHOOL PARKING SPACES ALONG THE MAIN DRIVEWAY OF THE SCHOOL ARE PUBLIC PARKING SPACES. THESE SPACES CANNOT BE UTILIZED BY CONSTRUCTION PERSONNEL UNLESS PERMISSION TO DO SO IS GIVEN BY WRDSB. THE GENERAL CONTRACTOR MUST KEEP THIS AREA CLEAR AND FREE FROM DEBRIS AT ALL TIMES.




2 A1.1 GROUND FLOOR KEY PLAN
1:350




3 A1.1 PARTIAL PROPOSED ROOF PLAN
1:100

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project
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TENDER #7269-RW-22

WATERLOO REGION DISTRICT SCHOOL BOARD
145 STEWART AVE, CAMBRIDGE N1R 2V5
drawing EXISTING SITE MOBILIZATION, CONSTRUCTION HOARDING PLAN, KEY PLAN AND PARTIAL PROPOSED ROOF PLAN, LEGEND AND NOTES
drawing scale N/A
ward99 project number 21009 - STEWART


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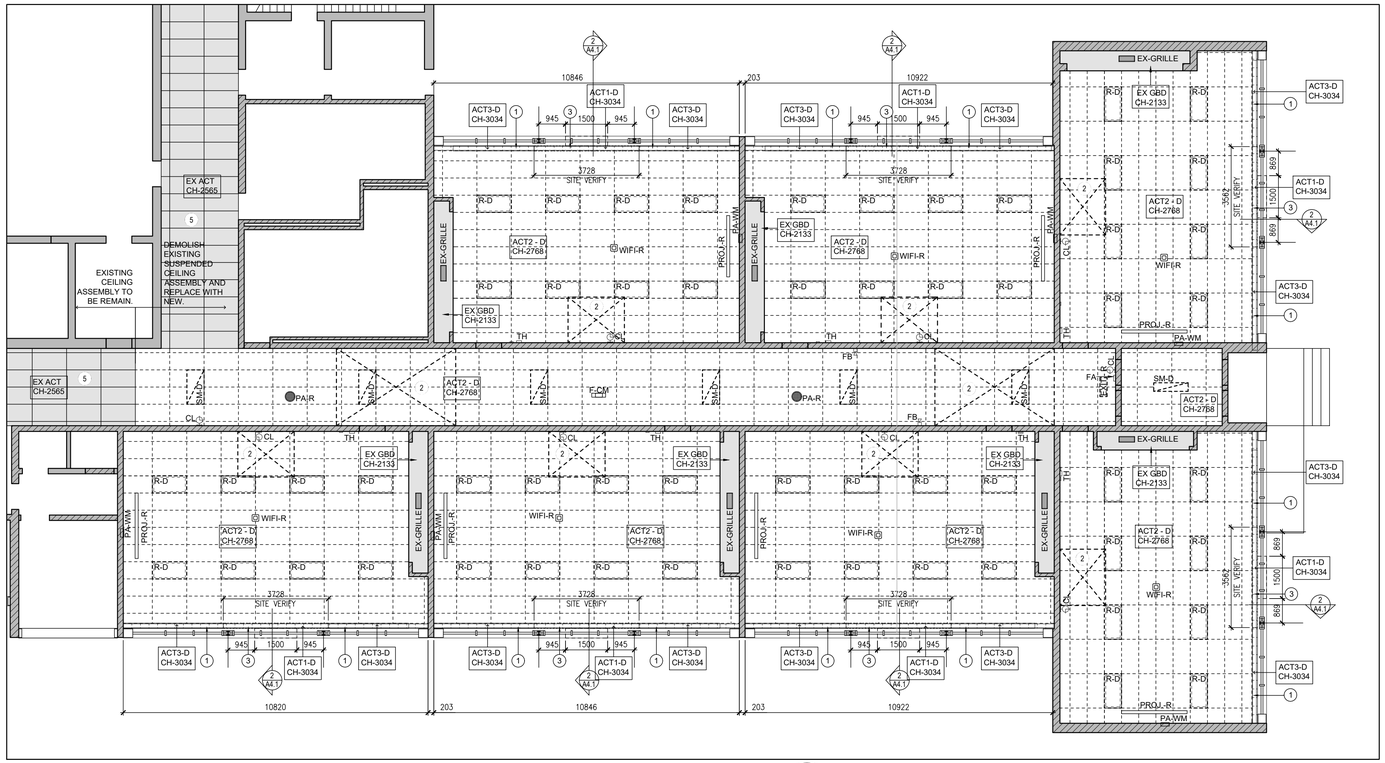
drawing no. A1.1

## REFLECTED CEILING PLAN DEMOLITION NOTES

(#) — DEMOLITION PLAN NOTE
REFER TO EXISTING REFLECTED CEILING PLAN DEMOLITION DRAWINGS 2/A2.1.

1. DEMOLISH PORTION OF EXISTING CONCEALED CEILING ASSEMBLY ABOVE 305mm X 1220mm SUSPENDED CEILING ASSEMBLY, EXCEPT WHERE NOTED OTHERWISE ON THE DRAWINGS. THE EXISTING CONCEALED CEILING IS COMPRISED OF 305mm X 305mm ACOUSTIC CEILING TILES ON 13mm GYPSUM BOARD FINISH. DEMOLISH PORTIONS OF THE EXISTING CONCEALED CEILING ASSEMBLY WERE REQUIRED TO COMPLETE MECHANICAL, ELECTRICAL AND STRUCTURAL WORKS. PATCH, REPAIR AND MAKE GOOD EXISTING CONCEALED CEILINGS ASSEMBLY WITH TWO LAYERS OF TYPE X 16mm GYPSUM BOARD, WHERE REQUIRED.
2. DEMOLISH EXISTING CONCEALED CEILING ASSEMBLY ABOVE 305mm X 1220mm SUSPENDED CEILING ASSEMBLY, AS REQUIRED TO ACCOMMODATE NEW STRUCTURAL ANGLE ASSEMBLIES TO SUPPORT THE NEW CONDENSING UNITS, AT THE NEW EXHAUST GOOSENECK AND AT THE NEW MECHANICAL DOG HOUSE. THE EXISTING DEMOLISHED CONCEALED CEILING IS COMPRISED OF 305mm X 305mm ACOUSTIC CEILING TILES ON 13mm GYPSUM BOARD FINISH. PATCH, REPAIR AND MAKE GOOD EXISTING CONCEALED CEILING ASSEMBLIES WITH TWO LAYERS OF TYPE X 16mm GYPSUM BOARD AS REQUIRED TO ENSURE THE EXISTING WOOD ROOD DECK REMAINS CONCEALED. REFER TO TYPICAL SECTION DETAIL 1/A4.2 AT EXHAUST GOOSENECK PENETRATION AND 3/A4.2 AT MECHANICAL DOG HOUSE. REFER TO STRUCTURAL DRAWINGS FOR ALL ROOF PENETRATIONS AND SUPPORTS AT NEW CONDENSING UNITS.
3. DEMOLISH EXISTING CONCEALED CEILING ASSEMBLY AND ASSOCIATED WOOD TRIM BOX AS REQUIRED TO ACCOMMODATE NEW GYPSUM BOARD FINISHED BULKHEAD ABOVE NEW MILLWORK AND NEW MECHANICAL UNIT VENTILATOR. REFER TO TYPICAL DEMOLITION SECTION DETAIL 2/A4.1.
4. REFER TO GENERAL DEMOLITION NOTES ON DRAWING A2.1.
5. REMOVE EXISTING SUSPENDED ACOUSTIC CEILING ASSEMBLIES AS REQUIRED TO COMPLETE NEW STRUCTURAL, MECHANICAL, ELECTRICAL WORK AS REQUIRED. REINSTATE EXISTING CEILING ASSEMBLIES IN THEIR ORIGINAL CONDITION AFTER WORK IS COMPLETE. REPAIR, MAKE GOOD OR REPLACE EXISTING CEILING ASSEMBLIES AS REQUIRED. WHERE WORK IS TO OCCUR ABOVE EXISTING GYPSUM BOARD FINISHES CEILINGS, REMOVE PORTIONS OF THE EXISTING 13mm THICK GYPSUM BOARD CEILING AND ASSOCIATED FRAMING AS REQUIRED TO TO COMPLETE THE WORK. PATCH, REPAIR AND MAKE GOOD EXISTING GYPSUM BOARD FINISHED CEILINGS WITH NEW 13mm GYPSUM BOARD, UNLESS NOTED OTHERWISE ON THE DRAWINGS, AND PATCH, MAKE GOOD, FLUSH AND PAINT TO MATCH EXISTING.

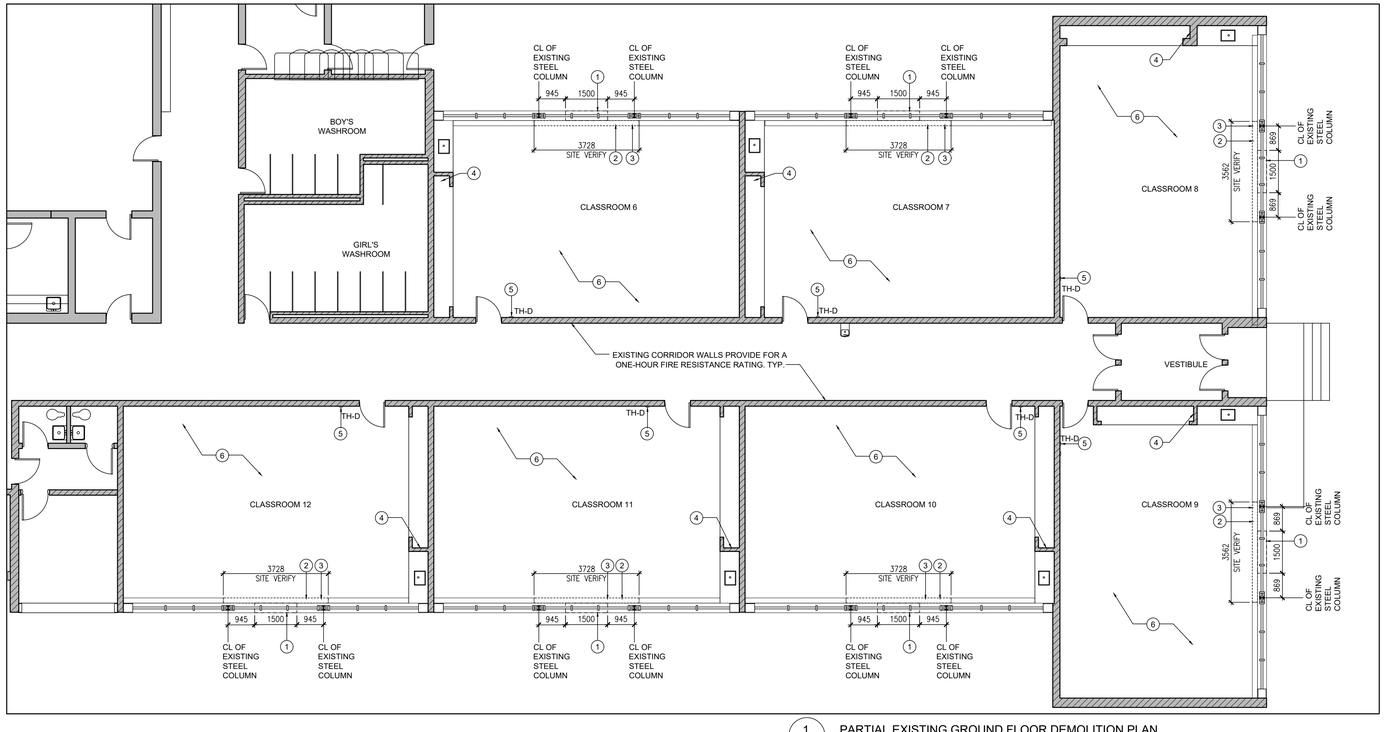



2 / A2.1 PARTIAL EXISTING GROUND FLOOR REFLECTED CEILING DEMOLITION PLAN
1:100

## GROUND FLOOR PLAN DEMOLITION NOTES

(#) — DEMOLITION PLAN NOTE
REFER TO EXISTING GROUND FLOOR PLAN DEMOLITION DRAWING 1/A2.1.

1. DEMOLISH THE WALL ASSEMBLY BELOW THE EXISTING WINDOW TO ACCOMMODATE THE NEW EXTERIOR LOUVRE FOR THE NEW HORIZONTAL UNIT VENTILATOR. REFER TO DEMOLITION SECTION DRAWING 2/A4.1 FOR DEMOLITION OF EXTERIOR WALL ASSEMBLY. NEW EXTERIOR WALL OPENING TO BE 1500mm WIDE X 300mm HIGH TO ACCOMMODATE A NEW STEEL LINTEL AND A 1200mm WIDE X 300mm HIGH LOUVRE. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR LOUVRE SIZE AND TYPE.
2. DEMOLISH A PORTION OF EXISTING RADIATOR TO ACCOMMODATE NEW HORIZONTAL UNIT VENTILATOR AND NEW LOW MILLWORK COUNTER/CHASE. REFER TO MECHANICAL DRAWINGS.
3. DEMOLISH PORTION OF EXISTING RUBBER WALL BASE BELOW DEMOLISHED RADIATOR. EXISTING FLOOR MASTICS CONTAIN ASBESTOS. REFER TO ASBESTOS AUDIT REPORT IN PROJECT MANUAL. ANY REQUIRED ABATEMENT IS TO BE INCLUDED IN BASE BID PRICE.
4. REFER TO MECHANICAL DRAWINGS FOR REPLACEMENT OF VALVES IN EXISTING MILLWORK AND PARTITIONS. REPLACEMENT IS TO BE ACCESSED THROUGH EXISTING ACCESS BY PROVIDING NEW MILLWORK ACCESS PANELS.
5. TH-D = DEMOLISH EXISTING THERMOSTAT AND REPLACE WITH NEW THERMOSTAT. REFER TO MECHANICAL DRAWINGS.
6. ALL EXISTING CONCRETE BLOCK WALLS AND GYPSUM BOARD WALLS AND BULKHEADS ARE TO BE PAINTED. EXISTING TACKBOARDS, WHITEBOARDS, BLACKBOARDS AND MILLWORK ARE TO REMAIN IN PLACE. PAINTING IS TO OCCUR AROUND ALL EXISTING WALL MOUNTED FITMENTS AND MILLWORK. TEMPORARILY REMOVE EXISTING WALL MOUNTED DEVICES, LIKE CLOCKS, TO COMPLETE PAINTING AND REINSTALL DEVICES IN THEIR ORIGINAL LOCATION ONCE PAINTING IS COMPLETE. PAINT ALL WALL MOUNTED CONDUITS. PAINT EXISTING WALL MOUNTED RADIATORS TO REMAIN. PAINT EXISTING STEEL DOORS AND FRAMES (BOTH SIDES TYP.). CONTRACTOR IS RESPONSIBLE TO REVIEW THE EXISTING CONDITIONS AND LAYOUT OF ALL ROOMS TO DETERMINE THE EXTENT OF PAINTING WORK TO BE COMPLETED. A MINIMUM OF TWO PAINT COLOURS FOR ROOM WALLS (ONE FIELD PAINT COLOUR AND ONE ACCENT PAINT COLOUR) WILL BE SELECTED. CONTRACTOR IS RESPONSIBLE TO TEMPORARILY REMOVE LOOSE FURNITURE TO ACCOMMODATE PAINTING AND TO REINSTATE FURNITURE AFTER PAINTING IS COMPLETE.




1 / A2.1 PARTIAL EXISTING GROUND FLOOR DEMOLITION PLAN
1:100

## REFLECTED CEILING PLAN DEMOLITION LEGEND

| | |
|---|---|
| HD | HD = UNINSTALL, STORE AND PROTECT, EXISTING HEAT DETECTOR, AS REQUIRED TO COMPLETE DEMOLITION AND NEW WORK. REINSTATE THE DEVICE ONCE WORK IS COMPLETED. REFER TO ELECTRICAL DRAWINGS. DEMOLISH HD DEVICES WHERE NOTED ON ELECTRICAL DRAWINGS. |
| EXH-WM | DEMOLISH EXISTING EXHAUST FAN MOUNTED IN WINDOW ASSEMBLY. REFER TO MECHANICAL DRAWINGS. DEMOLISH EXISTING INSULATED METAL PLAN IN EXISTING ALUMINUM FRAMED WINDOW AND REPLACE WITH NEW INSULATED ALUMINUM PANEL WITH ANODIZED FINISH TO MATCH ANODIZED ALUMINUM WINDOW FRAME. SITE VERIFY PANEL SIZE. |
| EX-GRILLE | EXISTING AIR GRILLE TO REMAIN. REFER TO MECHANICAL DRAWINGS. |
| SD | EXISTING SURFACE MOUNTED FIRE ALARM SMOKE DETECTOR. REFER TO ELECTRICAL DRAWINGS. |
| SD-R | SD-R = UNINSTALL, STORE AND PROTECT, EXISTING SURFACE MOUNTED FIRE ALARM SMOKE DETECTOR, AS REQUIRED TO COMPLETE DEMOLITION AND NEW WORK. REINSTATE THE DEVICE ONCE WORK IS COMPLETE. REFER TO ELECTRICAL DRAWINGS. |
| R-D | R-D = DEMOLISH EXISTING RECESSED LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS. |
| | EXISTING RECESSED POT LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS. |
| R | R = EXISTING RECESSED LIGHT FIXTURE TO REMAIN. REFER TO ELECTRICAL DRAWINGS. |
| SM-E | EXISTING SURFACE MOUNTED LIGHT FIXTURE TO REMAIN. REFER TO ELECTRICAL DRAWINGS. |
| SM-D | DEMOLISH EXISTING SURFACE MOUNTED LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS. |
| EXIT-R | UNINSTALL EXISTING RUNNING PERSON EXIT LIGHT AND PROTECT AND STORE FOR REINSTALLATION ON NEW FINISHED CEILING ASSEMBLY. REFER TO ELECTRICAL DRAWINGS. |
| EML / EML | EXISTING CEILING MOUNTED EMERGENCY LIGHT FIXTURE TO REMAIN. REFER TO ELECTRICAL DRAWINGS. |
| EML-D | EML-D = DEMOLISH EXISTING CEILING MOUNTED EMERGENCY LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS. |
| PA | PA = EXISTING PUBLIC ADDRESS. REFER TO ELECTRICAL DRAWINGS. |
| PA-R | PA-R = RELOCATE EXISTING PUBLIC ADDRESS. REFER TO ELECTRICAL DRAWINGS. |
| PA-WM | PA-WM = EXISTING WALL MOUNTED PUBLIC ADDRESS PANEL TO REMAIN. |
| WIFI-R | WIFI-R = UNINSTALL EXISTING CEILING MOUNTED WIFI DEVICE AND HAND OVER TO OWNER. REINSTALL ONTO NEW CEILING ASSEMBLY. REFER TO ELECTRICAL DRAWINGS. |
| PROJ - R | PROJ - R = UNINSTALL EXISTING CEILING MOUNTED PROJECTOR SCREEN ASSEMBLY AND HAND OVER TO OWNER. REINSTALL ONTO NEW CEILING ASSEMBLY |
| CL | EXISTING WALL MOUNTED CLOCK TO REMAIN. TEMPORARILY REMOVE FOR COMPLETION OF PAINTING WORK. REFER TO ELECTRICAL DRAWINGS. |
| MS | EXISTING WALL MOUNTED MOTION SENSOR TO REMAIN. REFER TO ELECTRICAL DRAWINGS. |
| MS-R | MS - R = RELOCATE EXISTING CEILING MOUNTED MOTION SENSOR. REFER TO ELECTRICAL DRAWINGS. |
| FB | EXISTING WALL MOUNTED FIRE BELL TO REMAIN. REFER TO ELECTRICAL DRAWINGS. |
| | EXISTING GYPSUM BOARD FINISHED STEEL FRAMED HEADER ABOVE EXISTING WALL OPENING TO REMAIN. |
| | EXISTING MASONRY HEADER ABOVE EXISTING WALL OPENING TO REMAIN. |
| | DEMOLISH EXISTING SUSPENDED ACOUSTIC CEILING TILE ASSEMBLY INCLUDING T-BAR GRID SYSTEM IN IT'S ENTIRETY. SIZE: 610mm X 1220mm ±. REMOVE EXISTING ELECTRICAL AND MECHANICAL FIXTURES AND FITMENTS FROM EXISTING CEILING ASSEMBLY AS REQUIRED TO COMPLETE DEMOLITION OF ASSEMBLY AND AS NOTED ON THE DRAWINGS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS. |
| | DEMOLISH EXISTING SUSPENDED ACOUSTIC CEILING TILE ASSEMBLY INCLUDING T-BAR GRID SYSTEM IN IT'S ENTIRETY. SIZE: 610mm X 1220mm ±. REMOVE EXISTING ELECTRICAL AND MECHANICAL FIXTURES AND FITMENTS FROM EXISTING CEILING ASSEMBLY AS REQUIRED TO COMPLETE DEMOLITION OF ASSEMBLY AND AS NOTED ON THE DRAWINGS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS. |
| ACT3-D CH-0000 | RETAIN EXISTING CONCEALED ACOUSTIC CEILING TILE ASSEMBLY ABOVE; COMPRISED OF THE FOLLOWING: 305mm X 305mm ACOUSTIC CEILING TILES ADHERED TO 13mm THICK GYPSUM BOARD ON METAL FRAMING SYSTEM TO UNDERSIDE OF EXISTIND ROOF JOISTS. HEIGHT OF CEILING ASSEMBLY IS 3096mm FROM FINISHED FLOOR TO UNDERSIDE OF CEILING ASSEMBLY. DEMOLISH ONLY PORTIONS OF EXISTING CONCEALED CEILING ASSEMBLY AS REQUIRED TO COMPLETE STRUCTURAL, MECHANICAL AND ELECTRICAL WORKS. |
| ACT3-D CH-0000 | DEMOLISH PORTION OF EXISTING SUSPENDED CONCEALED CEILING ASSEMBLY COMPRISED OF ACOUSTIC TILE (305mm X 305mm) ON 13mm GYPSUM BOARD FINISH ON METAL FRAMING SECURED TO UNDERSIDE OF EXISTING STEEL ROOF JOISTS. REFER TO DETAIL 2/A 1. CH = HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF EXISTING FINISHED CEILING. |
| ACT1-D CH-0000 | DEMOLISH A PORTION OF THE EXISTING SUSPENDED TRIM BOX AND CONCEALED CEILING ASSEMBLY COMPRISED OF ACOUSTIC TILE (305mm X 305mm) ON 13mm GYPSUM BOARD FINISH ON METAL FRAMING SECURED TO UNDERSIDE OF EXISTING STEEL ROOF JOISTS) AS REQUIRED TO ACCOMMODATE NEW GYPSUM BOARD FINISHED BULKHEAD ABOVE NEW MILLWORK AND NEW UNIT VENTILATOR. REFER TO DETAIL 2/A4.1. CH = HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF EXISTING FINISHED CEILING. |
| EX GBD CH-0000 | EXISTING GYPSUM BOARD FINISHED CEILING AND/OR BULKHEAD TO REMAIN. CH = HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF EXISTING FINISHED CEILING. |
| EX ACT CH-0000 | EXISTING SUSPENDED ACOUSTIC CEILING TILE AND T-BAR GRID SYSTEM TO BE REMAIN. TEMPORARILY REMOVE, PROTECT AND STORE TO COMPLETE THE WORK AS REQUIRED TO COMPLETE THE WORK, INCLUDING TO ACCOMMODATE STRUCTURAL, MECHANICAL AND ELECTRICAL REMOVALS AND NEW WORK. TEMPORARILY REMOVE EXISTING MECHANICAL AND ELECTRICAL DEVICES AND LIGHT FIXTURES AS REQUIRED TO ACCOMMODATE STRUCTURAL, MECHANICAL AND ELECTRICAL REMOVALS AND NEW WORK. REINSTATE IN ORIGINAL CONDITION ONCE WORK IS COMPLETE. CH = HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF EXISTING FINISHED CEILING. |
| GBD - D CH-0000 | DEMOLISH EXISTING GYPSUM BOARD FINISHED CEILING. CH = HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF EXISTING FINISHED CEILING. |

## GENERAL FLOOR PLAN DEMOLITION NOTES

1. DEMOLITION DRAWINGS ON A2.1 SHALL BE READ IN CONJUNCTION WITH ALL OTHER ARCHITECTURAL DRAWINGS AND ALL OTHER STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION, DETAILS, NOTES AND DIMENSIONS.
2. ROOM TITLE:
   1XXX — ROOM NAME
   ROOM — ROOM NUMBER
   AREA = — AREA IN SQUARE METRES.
3. WHERE WALL DEVICES ARE REMOVED AS NOTED ON ELECTRICAL AND MECHANICAL DRAWINGS, AND NO DEVICES ARE REINSTATED IN THEIR PLACE, PROVIDE RECEPTACLE COVERS.
4. TEMPORARILY REMOVE WINDOW SHADES AND ASSOCIATED CHAIN FASTENERS AT ALL WINDOWS IN ALL ROOMS AS REQUIRED TO COMPLETE THE WORK. REINSTALL WINDOW SHADES AND ASSOCIATED FASTENERS AFTER ALL WORK IS COMPLETE.
5. PIPE INSULATION AT ALL EXISTING PIPING AND FITTINGS CONTAINS ASBESTOS AND CAN BE FOUND IN ALL ROOMS WHERE WORK IS TO OCCUR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS WHERE ADDITIONAL WORK IS OCCURRING. ABATEMENT IS REQUIRED TO COMPLETE THE WORK AND IS INCLUDED IN THE BASE BID CONTRACT. REFER TO THE ASBESTOS AUDIT INCLUDED IN THE PROJECT MANUAL.
6. LEAD PAINT EXISTS THROUGHOUT THE RENOVATION AREA. FOLLOW HAZARDOUS ASSESSMENT AND REMOVAL PROCEDURES AS DESCRIBED IN THE PROJECT MANUAL AND AS REQUIRED TO COMPLETE NEW WORK. ALL ASSOCIATED WORK IS INCLUDED IN THE BASE BID PRICE.

NOTE: THIS DRAWING IS NOT TO BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL SITE DIMENSIONS AND FOR NOTIFYING THE ARCHITECT OF ANY SITE CONDITIONS AND SITE MEASUREMENTS THAT ARE NOT CONSISTENT WITH THE DRAWINGS.

| no. | revision | date |
|---|---|---|

ONTARIO ASSOCIATION OF ARCHITECTS
TINA RANIERI-D'OVIDIO
LICENCE
5980

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project
WRDSB STEWART AVENUE PUBLIC SCHOOL HVAC RENOVATIONS
TENDER #7269-RW-22

WATERLOO REGION DISTRICT SCHOOL BOARD
145 STEWART AVE, CAMBRIDGE N1R 2V5

drawing
PARTIAL GROUND FLOOR DEMOLITION PLAN AND REFLECTED CEILING DEMOLITION PLAN AND LEGEND

drawing scale
AS NOTED

ward99 project number
21009 - STEWART


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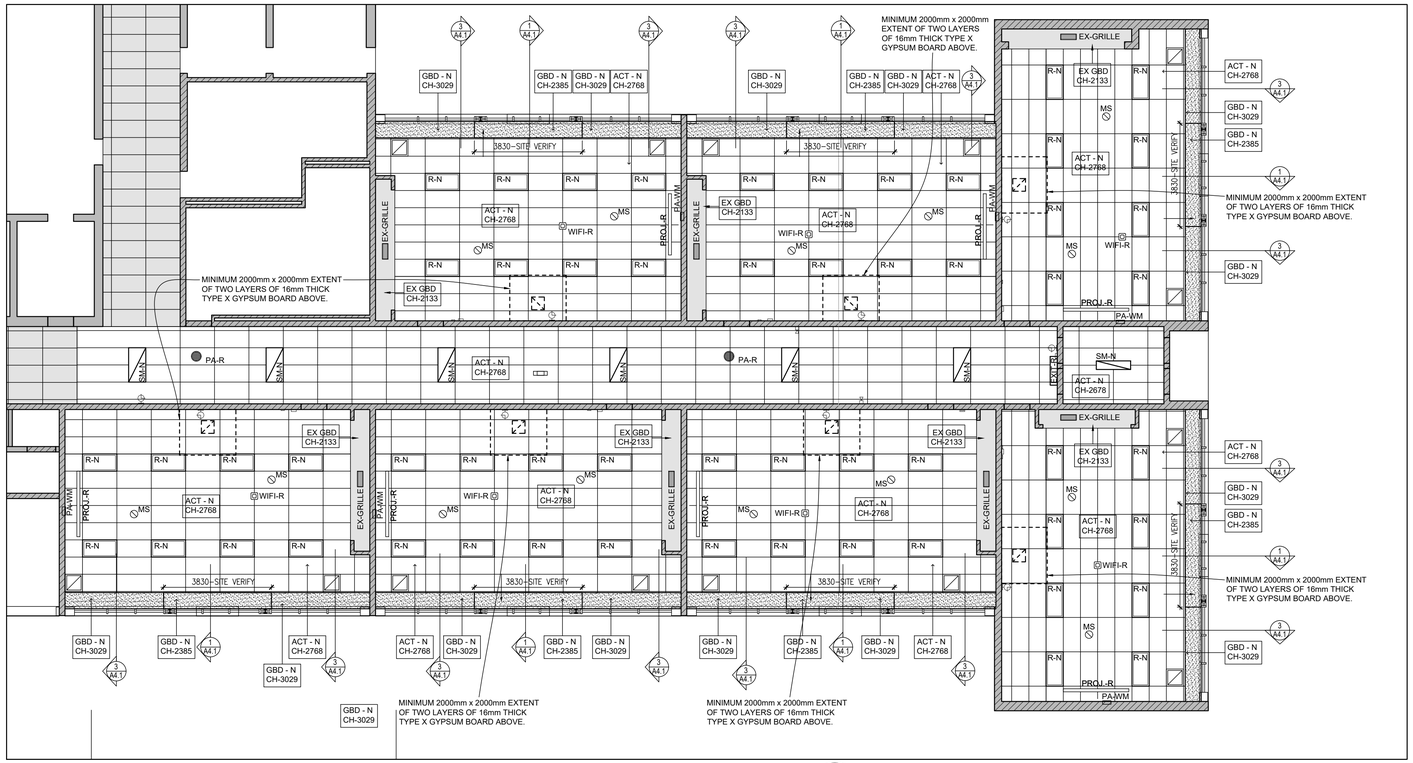
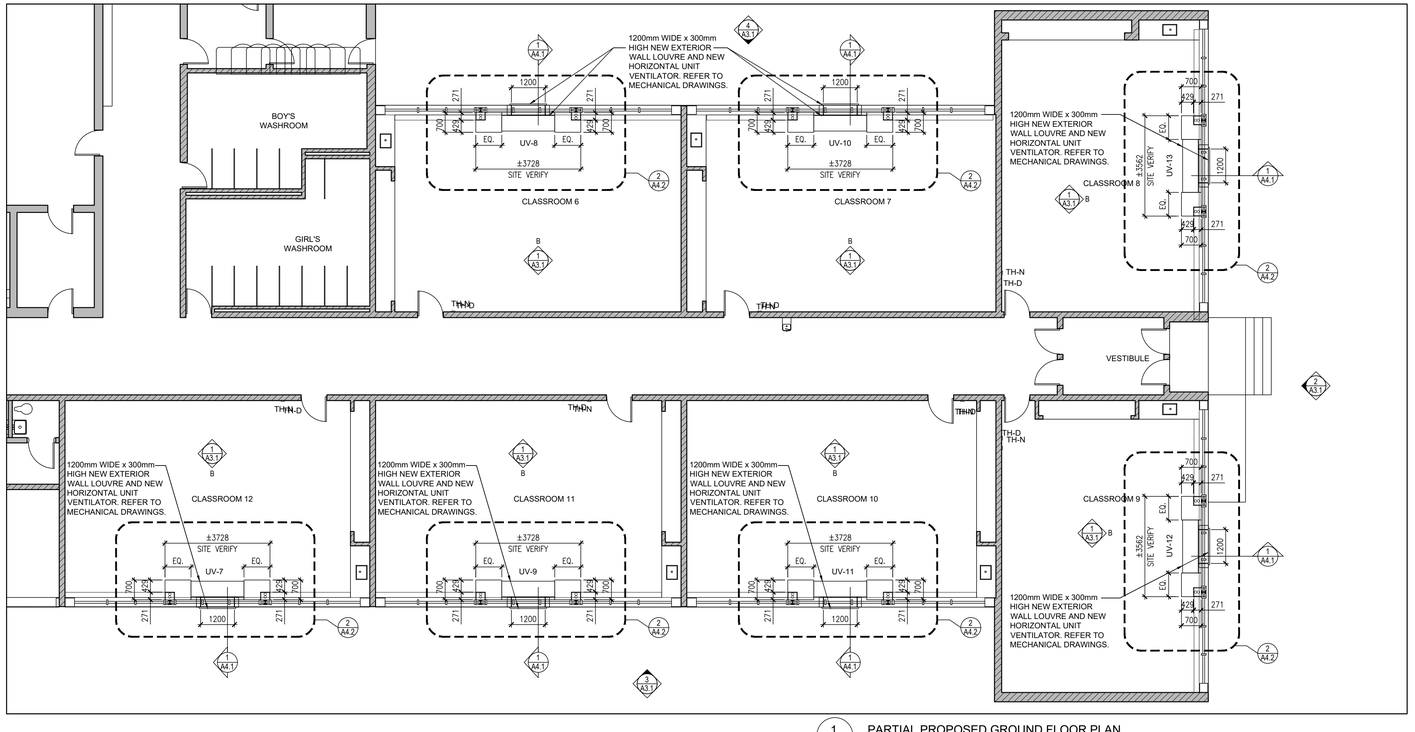
drawing no.
A2.1




2 A2.2 PARTIAL PROPOSED GROUND FLOOR REFLECTED CEILING PLAN
1:100




1 A2.2 PARTIAL PROPOSED GROUND FLOOR PLAN
1:100

## REFLECTED CEILING PLAN LEGEND

| | |
|---|---|
| EX-GRILLE | EXISTING CEILING MOUNTED GRILLE TO REMAIN IN GYPSUM BOARD BULKHEAD. |
| R-N | R-N = NEW RECESSED LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS. |
| SM-N | SM-N = NEW SURFACE MOUNTED LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS. |
| MS | MS = NEW CEILING MOUNTED MOTION SENSOR. REFER TO ELECTRICAL DRAWINGS. |
| WIFI-R | WIFI-R = UNINSTALL EXISTING CEILING MOUNTED WIFI DEVICE AND HAND OVER TO OWNER. REINSTALL ONTO NEW CEILING ASSEMBLY. REFER TO ELECTRICAL DRAWINGS. |
| PA-R / PA-WM | PA-R = EXISTING PUBLIC ADDRESS,UNINSTALL AND PROTECT AND STORE. REINSTALL ONTO NEW CEILING ASSEMBLY. REFER TO ELECTRICAL DRAWINGS.<br>PA-WM = EXISTING WALL MOUNTED PUBLIC ADDRESS PANEL TO REMAIN. REFER TO ELECTRICAL DRAWINGS. |
| PROJ - R | PROJ - R = UNINSTALL EXISTING CEILING MOUNTED PROJECTOR SCREEN ASSEMBLY AND HAND OVER TO OWNER. REINSTALL ONTO NEW CEILING ASSEMBLY. |
| | EXISTING GYPSUM BOARD FINISHED STEEL FRAMED HEADER ABOVE EXISTING WALL OPENING TO REMAIN. |
| | EXISTING MASONRY HEADER ABOVE EXISTING WALL OPENING TO REMAIN. |
| CL | EXISTING WALL MOUNTED CLOCK TO REMAIN. REFER TO ELECTRICAL DRAWINGS. |
| EXIT - R | UNINSTALL EXISTING WALL MOUNTED EMERGENCY EXIT LIGHT FIXTURE AND HAND OVER TO OWNER. REINSTALL ONTO WALL ASSEMBLY. REFER TO ELECTRICAL DRAWINGS. |
| TH | TH = EXISTING THERMOSTAT TO REMAIN. REFER TO MECHANICAL DRAWINGS. |
| FB | EXISTING WALL MOUNTED FIRE BELL TO REMAIN. REFER TO ELECTRICAL DRAWINGS. |
| FA | EXISTING WALL MOUNTED FIRE ALARM TO REMAIN. REFER TO ELECTRICAL DRAWINGS. |
| | NEW SUSPENDED ACOUSTIC CEILING TILE ASSEMBLY (SUSPENDED T-BAR AND ACOUSTICAL CEILING TILE PANELS) AND ASSOCIATED FRAMING ASSEMBLY. PROVIDE COLD-FORMED STEEL CHANNELS WHERE REQUIRED FOR INTERMEDIATE SUPPORT OF CEILING ASSEMBLY.<br>SIZE: 610mm X 1220mm. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PROVISION OF NEW LIGHT FIXTURES, GRILLES AND DEVICES. PROVIDE NEW ACOUSTIC CEILING ASSEMBLY AS INDICATED ON PROPOSED REFLECTED CEILING PLAN LAYOUT. |
| EX ACT CH-0000 | EXISTING SUSPENDED ACOUSTIC CEILING TILE AND T-BAR GRID SYSTEM TO BE REMAIN. TEMPORARILY REMOVE, PROTECT AND STORE TO COMPLETE THE WORK AS REQUIRED TO COMPLETE THE WORK, INCLUDING TO ACCOMMODATE STRUCTURAL, MECHANICAL AND ELECTRICAL REMOVALS AND NEW WORK. TEMPORARILY REMOVE EXISTING MECHANICAL AND ELECTRICAL DEVICES AND LIGHT FIXTURES AS REQUIRED TO ACCOMMODATE STRUCTURAL, MECHANICAL AND ELECTRICAL REMOVALS AND NEW WORK.<br>REINSTATE IN ORIGINAL CONDITION ONCE WORK IS COMPLETE. CH = HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF EXISTING FINISHED CEILING. |
| ACT - N CH-0000 | NEW SUSPENDED ACOUSTIC CEILING TILE AND T-BAR GRID SYSTEM. CH = HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF EXISTING FINISHED CEILING. |
| GBD - N CH-0000 | NEW GYPSUM BOARD FINISHED CEILING AND/OR BULKHEAD. CH = HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF EXISTING FINISHED CEILING. |
| EX GBD CH-0000 | EXISTING GYPSUM BOARD FINISHED CEILING AND/OR BULKHEAD TO REMAIN. CH = HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF EXISTING FINISHED CEILING. |
| | NEW RETURN AIR GRILLE. REFER TO MECHANICAL DRAWINGS. |
| | NEW 450X450 EXHAUST DUCT ABOVE. REFER TO MECHANICAL DRAWINGS. |

NOTE: PROVIDE PAINT FINISH AT ALL GYPSUM BOARD FINISHED CEILINGS AND BULKHEADS.

## GENERAL REFLECTED CEILING PLAN NOTES

1. REFER TO REFLECTED CEILING PLANS ON ARCHITECTURAL DRAWINGS 2/A2.2.
2. AT AREAS WHERE EXISTING CEILINGS AND ASSOCIATED ASSEMBLIES ARE IDENTIFIED TO REMAIN, THE EXISTING CEILINGS AND ASSOCIATED ASSEMBLIES ARE TO BE TEMPORARILY REMOVED, STORED AND THEN REINSTALLED AS REQUIRED TO ACCOMMODATE NEW ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL WORK. EXISTING CEILING FINISHES AND ASSOCIATED FRAMING ARE TO BE ADJUSTED AS REQUIRED TO ACCOMMODATE NEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL WORK. PROVIDE NEW MATCHING CEILING ASSEMBLY TO REPLACE EXISTING AS REQUIRED TO COMPLETE THE WORK. REPAIR AND MAKE GOOD ALL EXISTING CEILING FINISHES AND ASSEMBLIES REQUIRED TO BE REMOVED, REVISED AND OR ADJUSTED TO ACCOMMODATE DEMOLITION AND NEW WORK. REINSTALL CEILING ASSEMBLIES ONCE DEMOLITION AND NEW WORK IS COMPLETE. REPLACE EXISTING CEILING ASSEMBLIES WITH NEW CEILINGS TO MATCH EXISTING AS REQUIRED TO ACCOMMODATE DEMOLITION AND NEW WORK.
3. REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR COORDINATION AND ADDITIONAL INFORMATION AND NOTES.
4. PROVIDE PAINT FINISH TO ALL EXPOSED MECHANICAL AND ELECTRICAL PIPES AND CONDUITS AND ASSOCIATED MECHANICAL AND ELECTRICAL COMPONENTS (NEW AND EXISTING).
5. ALL CEILING MOUNTED COMPONENTS AND EQUIPMENT ARE TO BE MOUNTED IN THE CENTRE OF ACOUSTIC CEILING TILES, UNLESS NOTED OTHERWISE. EXISTING CEILING MOUNTED DEVICES AND FIXTURES ARE TO BE TEMPORARILY REMOVED AND THEN REINSTALLED AS REQUIRED TO COMPLETE THE WORK.
6. PAINT ALL NEW AND EXISTING GYPSUM BOARD FINISHED CEILINGS.

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TINA RANIERI-D'OVIDIO
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5980

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project
WRDSB STEWART AVENUE PUBLIC SCHOOL HVAC RENOVATIONS
TENDER #7269-RW-22

WATERLOO REGION DISTRICT SCHOOL BOARD
145 STEWART AVE, CAMBRIDGE N1R 2V5

drawing PARTIAL PROPOSED GROUND FLOOR PLAN AND REFLECTED CEILING PLAN, LEGEND AND NOTES

drawing scale
AS NOTED

ward99 project number
21009 - STEWART

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7500 Highway 27, Unit 27B
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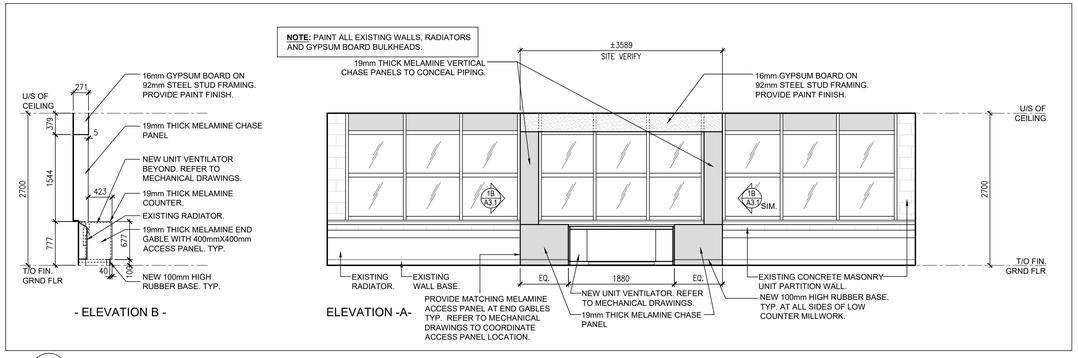
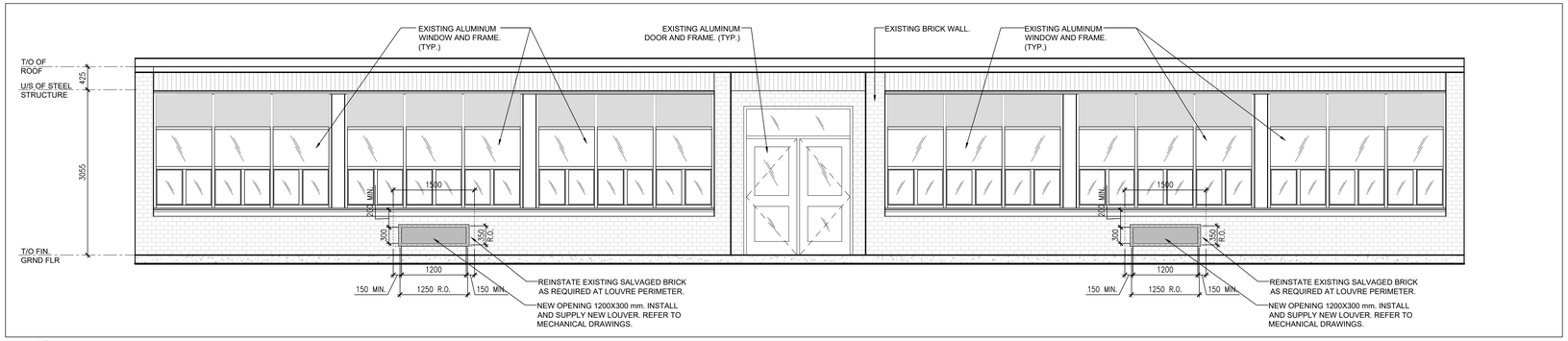
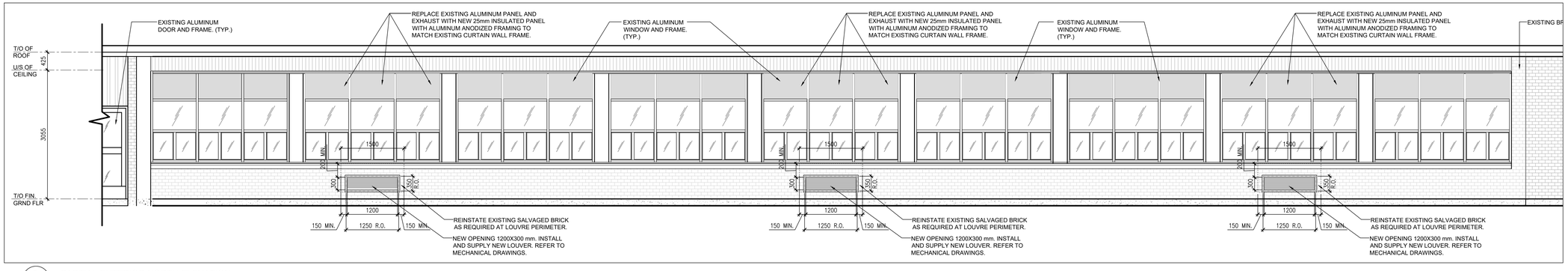
drawing no.
A2.2



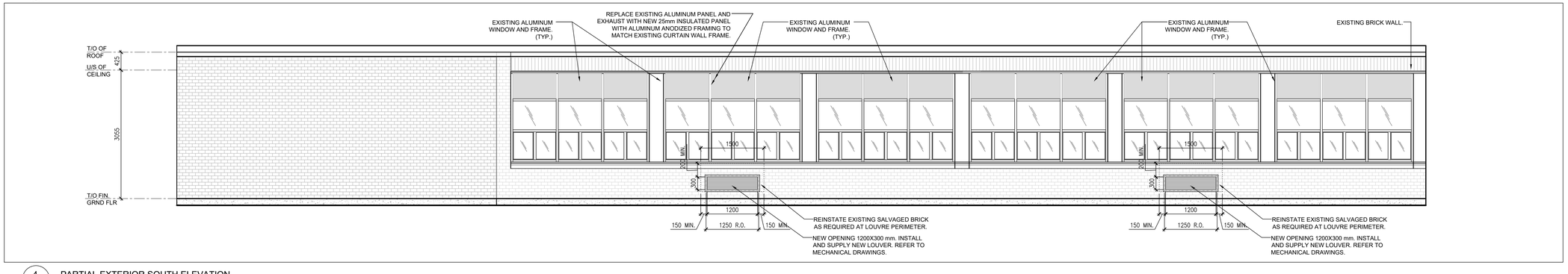

1 / A3.1 TYPICAL INTERIOR CLASSROOM ELEVATIONS
(FOR CLASSROOMS 6, 7, 8, 9, 10, 11, & 12) 1:50




2 / A3.1 PARTIAL EXTERIOR WEST ELEVATION
1:50




3 / A3.1 PARTIAL EXTERIOR NORTH ELEVATION
1:50




4 / A3.1 PARTIAL EXTERIOR SOUTH ELEVATION
1:50

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project
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TENDER #7269-RW-22

WATERLOO REGION DISTRICT SCHOOL BOARD
145 STEWART AVE, CAMBRIDGE N1R 2V5

drawing
TYPICAL CLASSROOM INTERIOR ELEVATIONS AND PROPOSED EXTERIOR ELEVATIONS

drawing scale
1:50

ward99 project number
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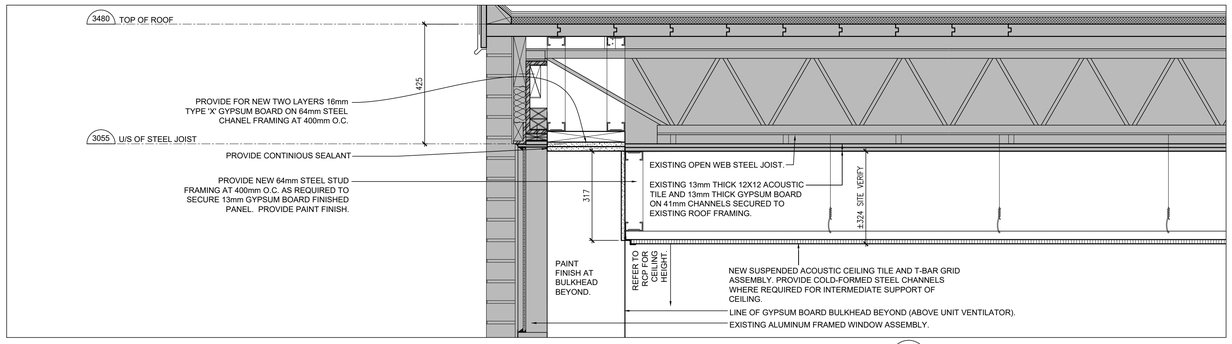
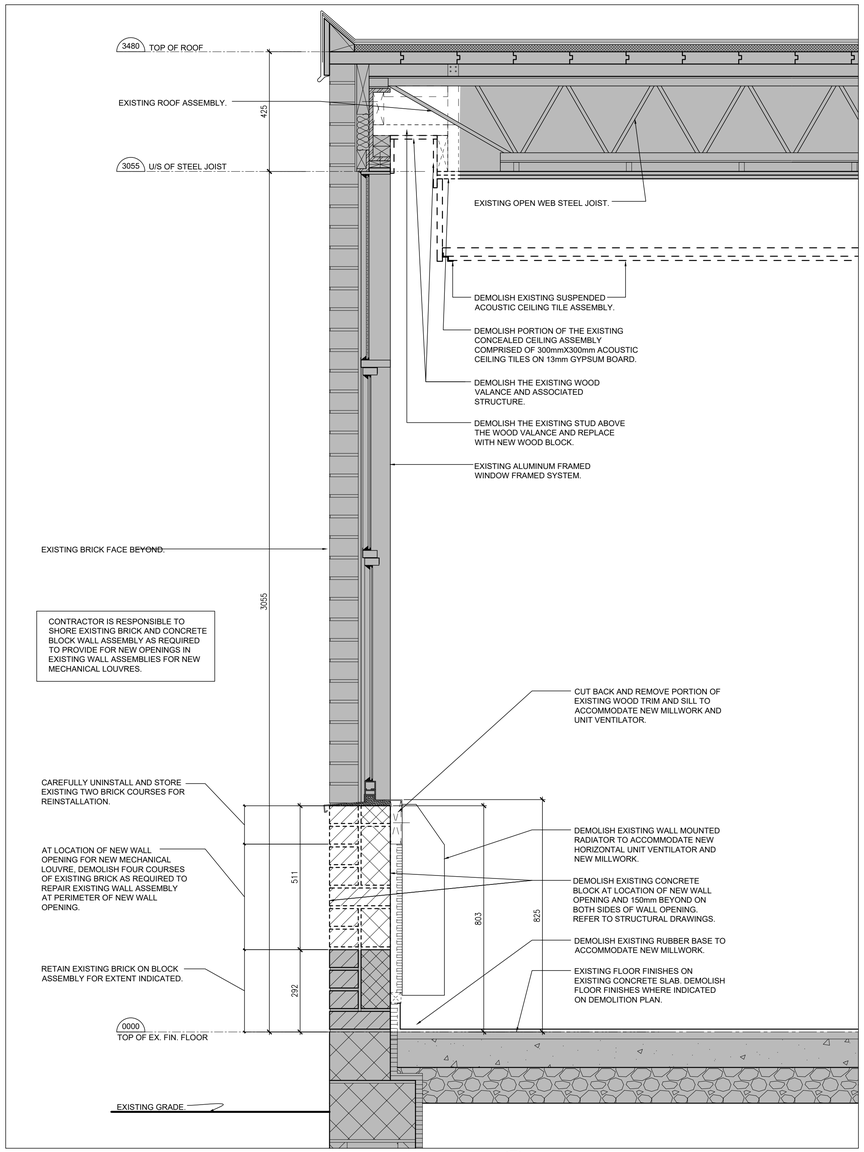
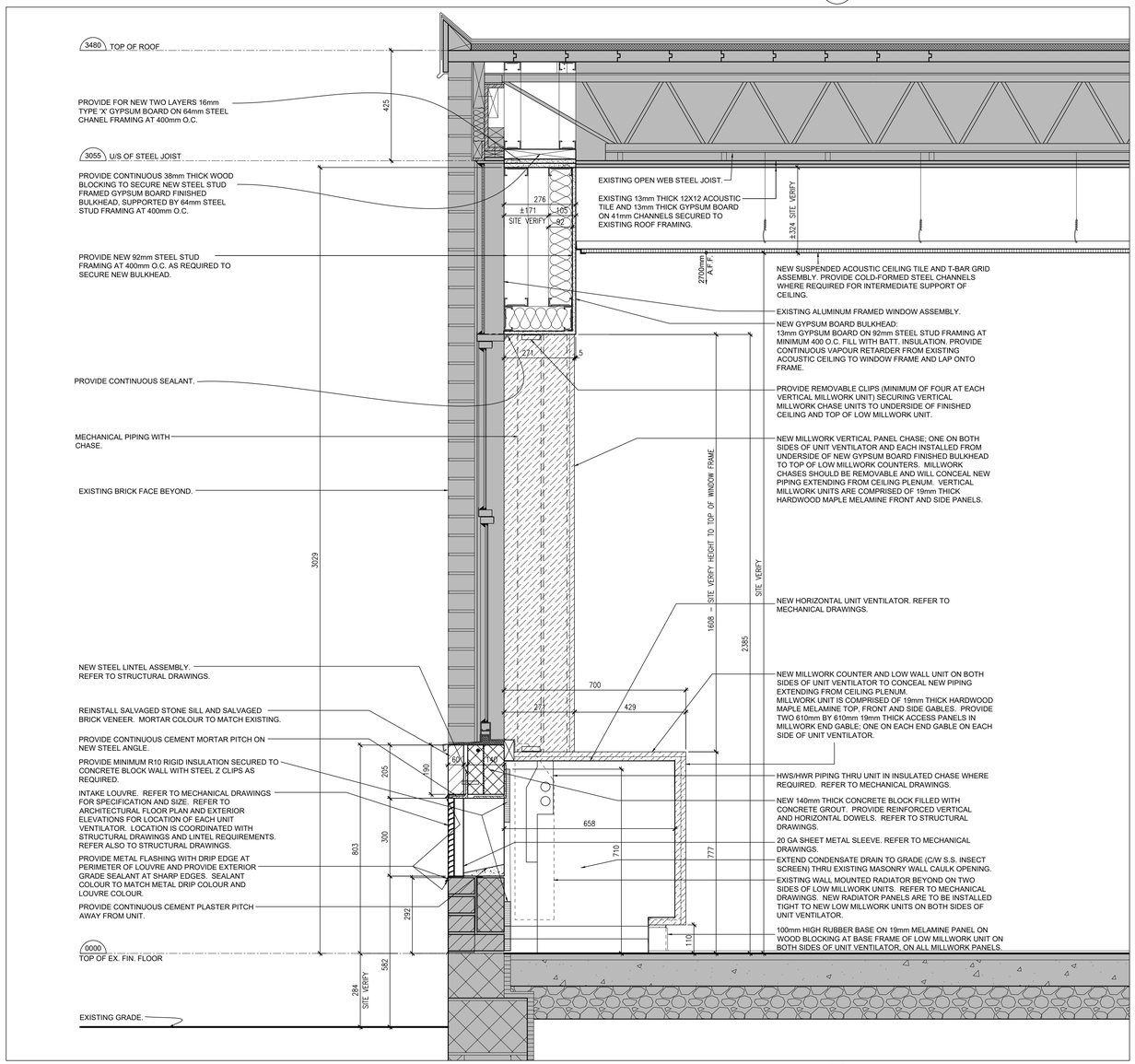
drawing no.
A3.1




3 A4.1 PROPOSED CEILING DETAIL
1:10




2 A4.1 EXISTING WALL SECTION - DEMOLITION
1:10




1 A4.1 PROPOSED WALL SECTION
1:10

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drawing
BUILDING SECTIONS AND DETAIL

drawing scale
AS NOTED

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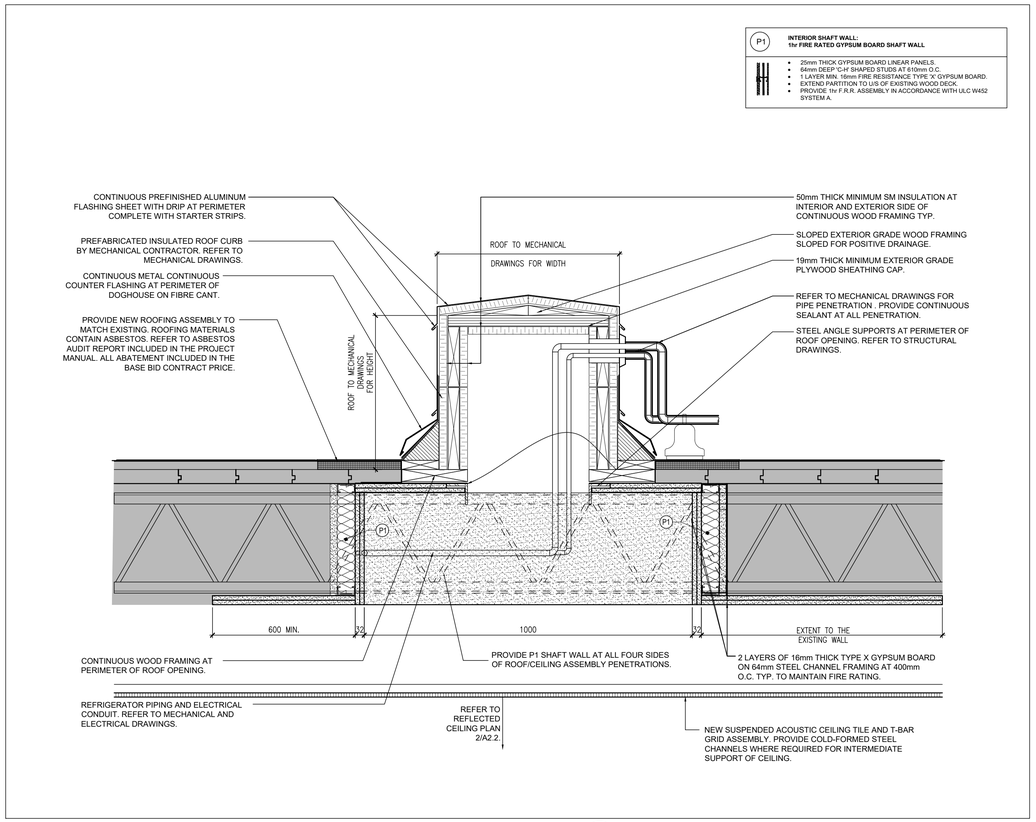
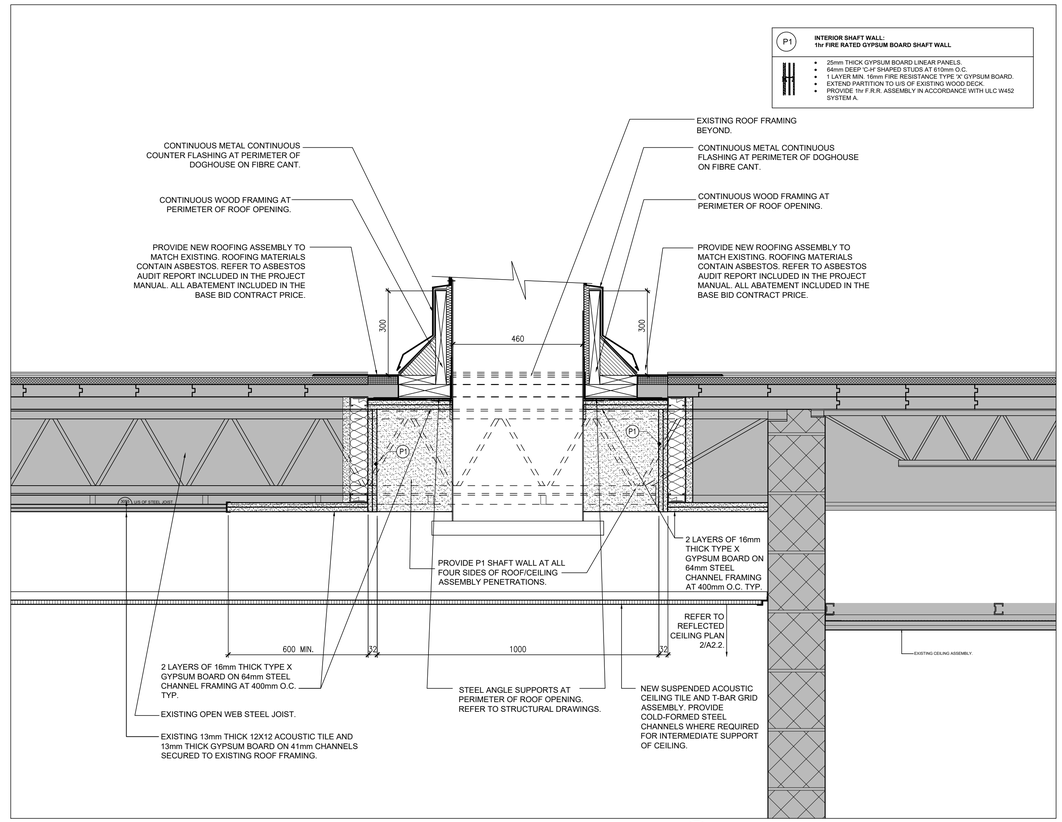
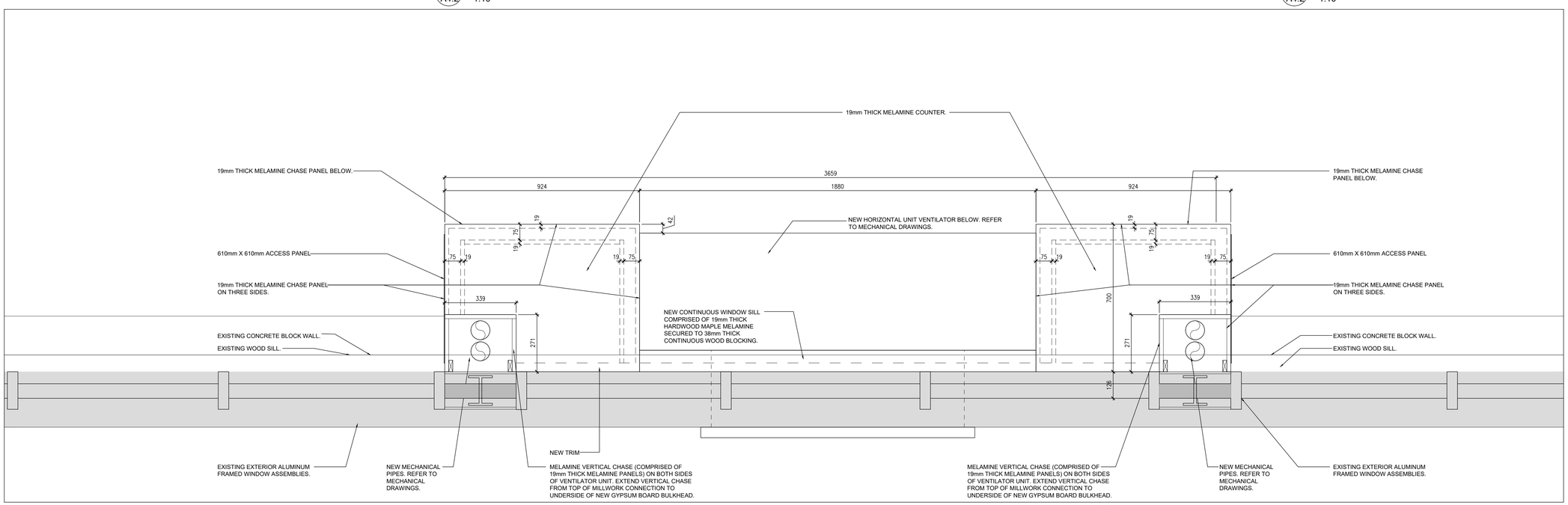



3 A4.2 TYPICAL CEILING SECTION DETAIL AT DOGHOUSE
1:10




1 A4.2 TYPICAL CEILING SECTION DETAIL AT GOOSENECK
1:10




2 A4.2 TYPICAL PLAN DETAIL AT MILLWORK COUNTER AND CHASE AT CLASSROOM 6,7,8, 9,10,11 & 12
1:10

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drawing
DETAILS

drawing scale
AS NOTED

ward99 project number
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