A D D E N D U M #2

Project	Nelson H.S. Renovations	**Project No.**	2323
Location	4181 New Street, Burlington, Ontario	**Date of Issue**	2024 05 30
Owner	The Halton District School Board	**File**	2323/7.1.3

This Addendum forms part of the Contract Documents and amends the original Drawings and Specifications, dated 2024 05 13, as noted below.

Ensure all parties submitting bids are aware of all items included in this Addendum. Read, interpret and coordinate the items contained herein with the Contract Documents and include all related costs as part of the Bid Price. Acknowledge receipt of this Addendum before submitting your bid.

This Consultant Addendum consists of 5 pages + noted attachments.

A2-1 PROJECT MANUAL – 00 21 13 INSTRUCTIONS TO BIDDERS

.1 Refer to Items 1.1.2, 1.1.3, 1.1.4 and revise the **bid closing time and date** for all noted contracts and subcontracts to the following:

"…before 3:00:00 pm local time on the 6th of June 2024…"

A2-2 PROJECT MANUAL – 09 96 46 INTUMESCENT PAINTING

.1 Add spec section 09 96 46 Intumescent Painting.

A2-3 DRAWING A207 FIRST FLOOR PARTIAL RENOVATION PLANS (reissued)

.1 Replace drawing with re-issued drawing

.2 Replace Renovation note no. 3 and 18

.3 Add Renovation note no. 9a, 24, 25, 26, 27 and 28

.4 Add Fire Rating Notes and Fire Proofing Notes

.5 Add note no. 26 and 27 locations on drawing

.6 Add note no. 9a in Rm 127

.7 Revise Renovation note numbers in Rm 125

.8 Add wall section tag reference for typical existing column cladding section detail

A2-4 DRAWING A208 FIRST FLOOR PARTIAL RENOVATION PLANS (reissued)

.1 Replace drawing with re-issued drawing

.2 Replace Renovation note no. 3 and 18

.3 Add Renovation note no. 9a, 24, 25, 26, 27 and 28

.4 Add Fire Rating Notes and Fire Proofing Notes

.5 Add note no. 9a in Rm 108 and 119

.6 Add note no. 24 location on drawing

.7 Add Renovation note no. 10 in Rm 108, 112, 119

A2-5 DRAWING A209 FIRST FLOOR PARTIAL RENOVATION PLANS (reissued)

.1 Replace drawing with re-issued drawing

.2 Replace Renovation note no. 3 and 18

.3 Add Renovation note no. 9a, 24, 25, 26, 27 and 28

.4 Add Fire Rating Notes and Fire Proofing Notes

.5 Add Renovation note no. 10 in Rm 106, 104

A2-6 DRAWING A210 SECOND FLOOR PARTIAL RENOVATION PLANS (reissued)

.1 Replace drawing with re-issued drawing

.2 Replace Renovation note no. 3 and 18

.3 Add Renovation note no. 9a, 24, 25, 26, 27 and 28

.4 Add Fire Rating Notes and Fire Proofing Notes

.5 Add note no. 26 and 27 locations on drawing

.6 Add note no. 11 in Rm.227a, 231, 233, 236, 238, 240

A2-7 DRAWING A211 SECOND FLOOR PARTIAL RENOVATION PLANS (reissued)

.1 Replace drawing with re-issued drawing

.2 Replace Renovation note no. 3 and 18

.3 Add Renovation note no. 9a, 24, 25, 26, 27 and 28

.4 Add Fire Rating Notes and Fire Proofing Notes

.5 Add note no. 18 in Rm. 220, 222, 223, 224, 226

.6 Add note no. 3 in Rm. 215

A2-8 DRAWINGS A300, A303 PARTIAL REFLECTED CEILING PLANS (reissued)

.1 Replace drawing with re-issued drawing

.2 Add 'Re & Re' Corridor Ceiling notes to complete required M&E service connections

A2-9 DRAWING A213 ROOF PARTIAL RENOVATION PLANS (reissued)

.1 Replace drawing with re-issued drawing

A2-10 DRAWING A501 SECTIONS AND TYPICAL SECTION DETAILS (reissued)

.1 Replace drawing with re-issued drawing

.2 Add detail no. 5 'Louver Section Detail at Lintel' and 8 'Typ. Window Column Cladding Section Detail'

.3 Revise detail no. 13

A2-11 MECHANICAL

.1 Refer to the attached Mechanical Addendum M-02 prepared by RDZ Engineering dated May 30, 2024.

A2-12 ELECTRICAL

.1 Refer to the attached Electrical Addendum E-01 prepared by RDZ Engineering dated May 30, 2024.

A2-13 BIDDER QUESTIONS

Q1 – As the new CU's are being installed on non-penetrating supports per the detail on M6.1, will the roofing under new condensing units need to be replaced as per detail 2/A213 or can the existing roofing be left undisturbed under the CU's?

A1 – No work required by SC07 ROOFING. SC03 MECHANICAL to remove loose ballast and provide insulation and patio stones as indicated on dwg 7/A502 (re-issued with Addendum 2).

Q2 – Will there be a space within the school available to GCs for the duration of the project for storage and a site office?

A2 - SC01 to provide a site trailer. School will be flexible to provide storage areas, but there is little area to offer. Contractors should be prepared accordingly.

Q3 – Will GCs be permitted to use the washroom facilities at school for the duration of the project?

A3 – SC01 to provide temporary toilets

Q4 – Can you please provide the wall construction required for the Hoarding walls?

A4 – Hoarding shall be a drywall or plywood sheathing applied to steel stud framing. Include temporary doors. Consider that the hoarding will need to be relocated several times to create configurations of different lengths. Multiple hoardings may be needed at once.

Q5 –Under the documents and bonding section on bids and tender portal it makes references to bid bonds - Please confirm that only a consent to surety is required?

A5 – Correct, no bid bond required

Q6 – Addendum 1 A1-4: regarding note A1-4 vs PW7. Cannot spot the difference. Do they just mean the 25mm shaft linear should be glas mat?

A6 – Addendum 1, item A1-4 was to add Gypsum Board- Shaft Liner (GB-SL) specification (that was previously missing in Project Manual)

Q7 – Drawing # A104 missing from Architectural set.

A7 – Refer to Addendum 2

Q8 – Is there Phase E & F? (Only Phase 1A, 1B, 1C, 1D, 1G & 2 as per drawings)

A8 – The phasing indicated is conceptual. It illustrates the extent of the work but phasing will need to be adjusted in conjunction with the awarded contractors and Owner's coordination. The phasing shown may prove to be optimistic. Be prepared to provide the work in MORE phases than indicated.

Q9 – Is a level 5 finish required over the 5/8 AR (abuse resistant) drywall. Or just a standard level 4?

A9 – Standard Level 4 is acceptable

Q10 –Please confirm the school board will be responsible for payment of pre purchased Mechanical Equipment.

A10 – Correct, this equipment has been paid for and manufacturing is underway. SC03 Mechanical is to include receiving and lifting of equipment upon delivery to the site. Equipment will be delivered from multiple vendors and will NOT arrive all at once – include for several crane lifts.

Q11 – Please confirm extent of storm pipe rerouting of existing roof drain and new roof drain on drawing M3.11

A11 – Refer to detail 2 on drawing M3.4 issued with Addendum M-02

Q12 – Please provide specification of Screen system for RTUs and confirm if all new RTUs will require screen system.

A12 – Refer to new spec section issued with Addendum M-02

END OF ADDENDUM #2

1 General

1.1 RELATED SECTIONS

.1 Section 05 12 00 - Structural Steel.

.2 Section 05 20 00 - Steel Joists.

.3 Section 05 30 00 - Steel Deck.

.4 Section 09 90 00 - Painting and Coating.

1.2 REFERENCES

.1 ASTM E2924-14: Standard Practice for Intumescent Coatings.

.2 CAN/ULC S102-10: Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

.3 SSPC-PA 2-2015: Procedure for Determining Conformance to Dry Coating Thickness Requirements.

1.3 PRODUCT DATA

.1 Submit Product data as specified in Section 01 33 00.

.2 Product Data: Manufacturer's standard data sheets, including information on physical properties, installation instructions, and general requirements for each specified intumescent material.

1.4 SAMPLES

.1 Submit samples as specified in Section 01 33 00.

.2 Verification Samples: 300 x 300 mm size sample of each type of intumescent coating, applied to a rigid backing, in the colour and finish indicated.

1.5 CLOSEOUT SUBMITTALS

.1 Submit closeout submittals as specified in Section 01 78 00.

.2 Maintenance Data: Manufacturer's standard maintenance and cleaning guidelines, including procedures for stain removal, repairing surface, and general cleaning; sufficient quantity for inclusion in the operation and maintenance manuals.

1.6 QUALIFICATIONS

.1 Applicator: Person or firm experienced in the application of intumescent coatings, and having a minimum of 10 years documented experience.

1.7 DELIVERY, STORAGE AND HANDLING

.1 Refer to Section 01 60 00.

.2 Store Products in a dry, enclosed area protected from exposure to moisture.

.3 Maintain temperatures between 16 degrees C and 32 degrees C.

1.8 AMBIENT CONDITIONS

.1 Refer to Section 01 60 00.

.2 Do not install coating when ambient temperature is below 4 degrees C or above 43 degrees C.

.3 Maintain this temperature range 7 days before, during and 48 hours after installation of wall coatings.

.4 Ensure adequate ventilation is maintained during and after coating material application. Comply with WHMIS requirements and manufacturer's instructions.

2 Products

2.1 MANUFACTURERS

.1 Manufacturers having Products considered acceptable for use:
- .1 3M Company Canada.
- .2 AD Fire Protection Systems Inc.
- .3 Carboline Company.
- .4 Isolatek International.

.2 Substitution Procedures: Refer to Section 01 25 00.

2.2 DESCRIPTION

.1 Intumescent Coating: Multi-component seamless intumescent coating system, consisting of a primer, intermediate, finish and tinted top coats, applied to sufficient thicknesses to achieve required fire resistance ratings and W/D factors.

2.3 REGULATORY REQUIREMENTS

.1 Conform to applicable fire and building codes for flame spread, fuel contributed and smoke development ratings to CAN/ULC S102.

2.4 MATERIALS

.1 Ferrous Metal Primer: Two-component, high solids, low-VOC, corrosion-resistant epoxy; eg. Carboguard 880 by Carboline; Gray colour.

.2 Galvanized Metal Primer: Two-component polymeric epoxy amine, 99 percent solids by volume; eg. Rustbond by Carboline; Translucent Green colour.

.3 Intermediate Coat - Exterior Applications: Single-component intumescent, 67 percent solids by volume; eg. Nullifire S605 by Carboline, Pale Green colour.

.4 Intermediate Coat - Interior Applications: Single-component intumescent, 67 percent solids by volume; eg. Nullifire S606 by Carboline, Pale Pink colour.

.5 Finish Coat: Two-component polyamido-amine epoxy, 98 percent solids by volume; eg. Carboguard 1340 by Carboline; Clear Amber colour, Gloss finish.

.6 Tinted Top Coat: Two-component urethane, Semi-Gloss finish, colours as selected by Consultant; eg. Carbothane 133 VOC by Carboline.

2.5 MIXING

.1 Thoroughly mix ingredients in proper quantities needed for immediate use.

.2 Provide uniformity of mix and colouration.

.3 Discard mixed material 45 minutes after initial mixing at an air temperature of 25 degrees Celsius.

3 Execution

3.1 EXAMINATION

.1 Refer to Section 01 71 00.

.2 Verify ferrous metal surfaces have been prepared using SSPC SP-6, Commercial Blast Cleaning method.

3.2 PREPARATION

.1 Clean substrate surface free of foreign matter.

.2 Spray apply ferrous metal primer to a dry film thickness of 0.02 mm.

.3 Spray apply galvanized metal primer to a dry film thickness of 0.05 mm.

.4 Allow primer to cure.

3.3 APPLICATION

.1 Apply intumescent coatings to ASTM E2924 and SSPC Steel Structures Painting Manual, Volume 2.

.2 Spray apply intermediate coating to primed substrate in multiple coats, to a dry film thickness sufficient to achieve required fire resistance rating and W/D factor of steel member being protected. Refer to UL Directory under relevant UL design. Allow each coat to cure prior to applying subsequent coats.

.3 Spray apply finish coating over cured intermediate coating to a minimum dry film thickness of 0.05 mm.

.4 Apply tinted top coating over cured finish coating, applied to a minimum dry film thickness of 0.125 mm.

.5 Terminate in straight lines, at masking tape line.

.6 Thoroughly air cure applied Products.

.7 Prevent contamination during application and prior to completion of curing process. Close area of application for a minimum of 24 hours after application.

.8 Ensure cured intumescent coatings have a smooth, flat and even surface, without visually noticeable runs, sags, waves and other imperfections.

3.4 FIELD QUALITY CONTROL

.1 Arrange for manufacturer's representative to be present at start of installation.

.2 Field inspection will be performed by an independent inspector, as specified in Section 01 40 00.

.3 Verify dry film thicknesses with a positector or similar dry film thickness testing device to SSPC-PA 2.

3.5 CLEANING

.1 Refer to Section 01 74 00.

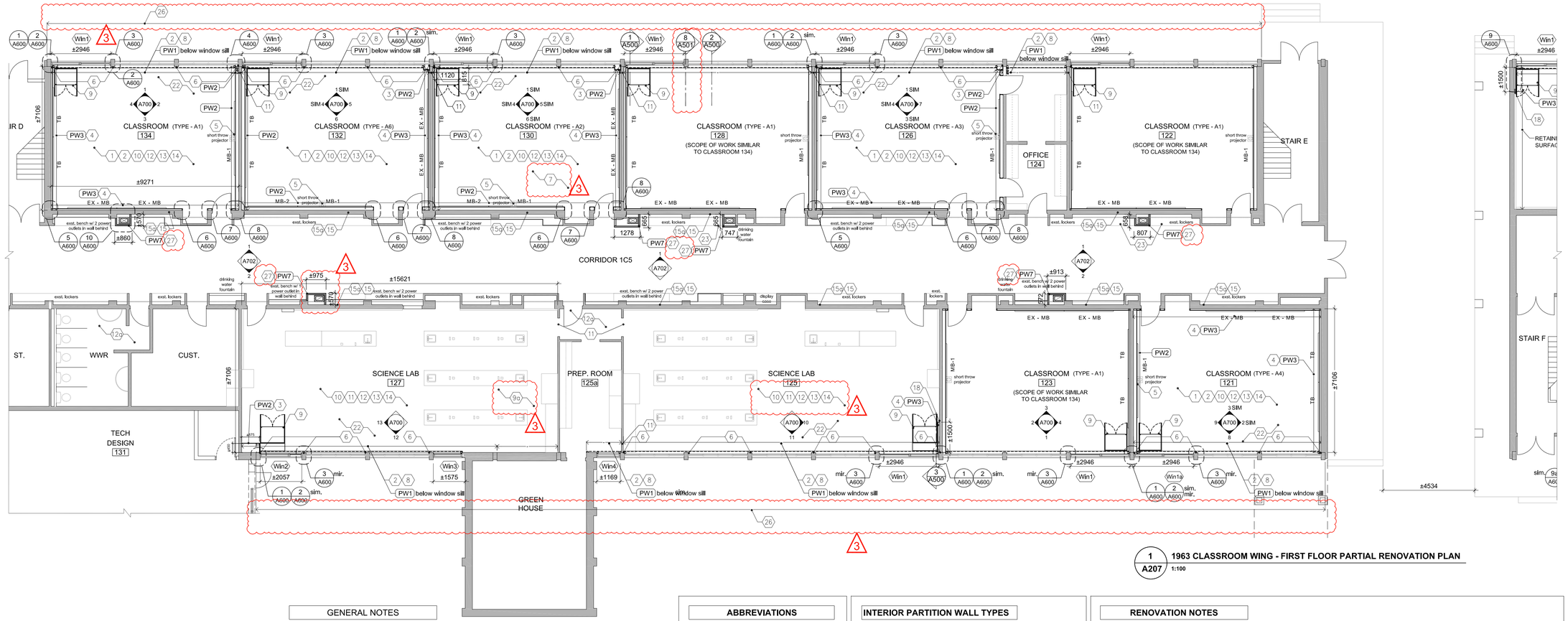
.2 Remove temporary protective coverings and clean intumescent coatings prior to final inspection.

3.6 PROTECTION

.1 Refer to Section 01 76 00.

.2 Protect intumescent coatings from damage and wear during construction with temporary protective coverings.

END OF SECTION



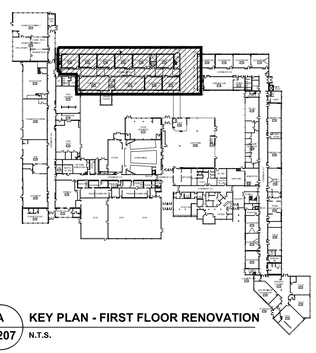
1 / A207 1963 CLASSROOM WING - FIRST FLOOR PARTIAL RENOVATION PLAN
1:100

GENERAL NOTES

1. CONTRACTOR TO ENSURE THAT THE PORTION OF THE BUILDING BEING RETAINED IS HANDED BACK TO THE OWNER (ON COMPLETION OF CONSTRUCTION) IN A CONDITION SIMILAR TO IT'S EXISTING CONDITION OR BETTER. THIS REQUIREMENT INCLUDES PROVISION OF ALL NECESSARY PROTECTIVE MEASURES LIKE SECURITY, PROTECTION FROM THE ELEMENTS AND WEATHER, HEATING / DEHUMIDIFICATION AS NECESSARY, ETC.
2. REMOVE EXISTING TACKBOARDS & MARKERBOARDS INCLUDING ADHESIVE AS NECESSARY TO DO RENOVATION, INCLUDE FILLING IN DAMAGED CMU.
3. TO PERFORM DEMOLITION OF EXISTING BUILDING ELEMENTS CO-ORDINATE WITH STRUCTURAL AND MECHANICAL & ELECTRICAL DRAWINGS.
4. CONTRACTOR IS RESPONSIBLE TO CUT EXISTING SLAB ON GRADE AS INDICATED FOR NEW SANITARY & PIPELINES. REFER TO MECH. DWGS. FOR EXACT LOCATIONS. INFILL FLOOR SLAB TO MATCH EXISTING AND MAKE GOOD ALL AFFECTED SURFACES.
5. CONTRACTOR IS RESPONSIBLE TO CAREFULLY REMOVE EXISTING CEILING TILE TO ACCOMMODATE ALL NEW MECH. & ELEC. CONNECTIONS. REINSTATE TILE AFTER WORK IS COMPLETE. REFER TO MECH. DWGS. FOR EXACT LOCATIONS.
6. FOR EXACT QUANTITIES AND LOCATIONS OF MECHANICAL & ELECTRICAL ITEMS, PLEASE REFER MECHANICAL & ELECTRICAL DWGS.

CONSTRUCTION NOTES

1. ALL INTERIOR PARTITIONS TO BE EXTENDED UP TO UNDERSIDE OF SLAB OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. NON LOAD BEARING WALLS TO STOP 25mm BELOW THE UNDERSIDE OF SLAB OR UNDERSIDE OF STEEL DECK. PROVIDE CONTINUOUS SOUND SEALS AT TOP. (ULC) LISTED FIRE STOP & SMOKE SEAL @ U/S OF SLAB, ROOF DECK AND PENETRATIONS PERIMETER REQUIRED AT ALL RATED WALLS.
2. ALL DIMENSIONS ON FLOOR PLANS ARE SHOWN AS MASONRY OPENINGS, (ROUGH OPENINGS)
3. ALL STEEL LINTELS/ BEAMS IN EXTERIOR WALLS / ROOF TO BE GALVANIZED- SEE SPECIFICATIONS.
4. PROVIDE 100mm SOLID CMU CHASE AROUND ALL PIPE AND DUCT DROPS AS REQUIRED. CO-ORDINATE WITH MECH. DWGS.
5. PROVIDE NEW MANUAL WINDOW SHADES
   a) AT ALL NEW AND EXISTING EXTERIOR WINDOWS FOR CLASSROOMS, SCIENCE LABS AND SPECIALTY ROOMS AS MARKED ON PLANS.
   b) PROVIDE WOOD BLOCKING @ WINDOW HEADS FOR SHADE INSTALLATION.
6. CONTRACTOR TO VERIFY EXISTING BUILDING DIMENSIONS AND MODIFY NEW CONSTRUCTION TO SUIT.
7. SC08 FLOORING TO GRIND DOWN OR RAISE EXISTING FLOOR SUBSTRATE TO PROVIDE POSITIVE DRAINAGE TO NEW OR EXISTING FLOOR DRAIN.
8. SC08 FLOORING TO USE SELF LEVELING COMPOUND IF REQUIRED UPON REMOVAL OF EXISTING FLOORING TO SUITE NEW FLOOR INSTALLATION.
9. SC09 DRYWALL AND ACOUSTICS TO INCLUDE PROVISION FOR 50 NEW ACOUSTIC CEILING TILES TO REPLACE ANY DAMAGED TILES WHILE CONNECTING REQUIRED MECH. & ELECTRICAL SERVICES THROUGH EXISTING CORRIDORS.
10. SC09 DRYWALL AND ACOUSTICS TO INCLUDE 10 NUMBERS OF 300x300GB-FR @ EXISTING OPENINGS IN WALLS- LOCATION AS DIRECTED BY CONSULTANT ON SITE.
11. SC01 GENERAL TO INCLUDE PROVISION FOR 3 ADDITIONAL MASONRY CHASES. (300x300mm CLEAR)
12. SC01 GENERAL TO PATCH EXISTING MASONRY OPENINGS FROM MISCELLANEOUS REMOVED PIPES AND DUCTWORK AT EXPOSED CEILINGS. INCLUDE 20 LOCATIONS TO BE CONFIRMED ON SITE, UP TO 300MM IN DIAMETER



A / A207 KEY PLAN - FIRST FLOOR RENOVATION
N.T.S.

ABBREVIATIONS

AL/ALUM - ALUMINUM
AFF - ABOVE FINISH FLOOR
AVBSM - AIR VAPOUR BARRIER SHEET MEMBRANE
C.J - CONTROL JOINT
CMU - CONCRETE MASONRY UNIT
CONT - CONTINUOUS
C/W - COMPLETE WITH
DIA. - DIAMETER
E.J. - EXPANSION JOINT
EX/EXST - EXISTING
FEC - FIRE EXTINGUISHER CABINET. FULLY RECESSED - TYP. SEE MECH. DWGS
FRR - FIRE RESISTANT RATING
GB - GYPSUM BOARD
GB-AR - ABUSE- RESISTANT GYPSUM BOARD
GB-BB - BACKING BOARD GYPSUM BOARD
GB-FR - FIRE- RATED GYPSUM BOARD
GB-SB - CEILING/ SOFFIT GYPSUM BOARD
GB-SL - SHAFT LINER GYPSUM BOARD
GL - GLAZING
GSB - GYPSUM SHEATHING BOARD
INS - INSULATION
LOK - METAL LOCKER
MB - MARKER BOARD
MD - MILLWORK DETAIL
MIR - MIRROR
MIRR - MIRRORED
MWP - METAL WALL PANEL
NIC - NOT IN CONTRACT
NTS - NOT TO SCALE
O/ - OVER
OD - OUTER DIAMETER
PREFIN. - PREFINISHED
PT. PLY - PRESSURE TREATED PLYWOOD
SIM - SIMILAR
SS - STAINLESS STEEL
TB - TACK BOARD
UNO - UNLESS OTHERWISE NOTED
U/S - UNDERSIDE
W/ - WITH

INTERIOR PARTITION WALL TYPES

- PW1 — 16mm GB-AR VAPOUR RETARDER 92mm METAL STUDS @ 400 O.C. WITH 75mm BATT INS. AIR BARRIER SHEET MEMBRANE EXISTING BLOCK
- PW2 — 16mm GB-AR 152mm METAL STUDS @ 400 O.C. WITH
- PW3 — 16mm GB-AR 64mm METAL STUDS @ 400 O.C. WITH
- PW4 — 16MM GB-AR ON 22MM FURRING HAT SECTIONS @400MM O.C. MAX. ON EXISTING WALL
- PW5 — 16mm GB-AR LAMINATED ON EXST. BLOCK
- PW6 — 16MM GB-AR ON 19x38 WOOD BLOCKING ON EXISTING STEEL COLUMN
- PW7 — ULC W446: 1 HR RATED WALL (System F-1h) 16mm GB-FR 102mm 'C-T' SHAPED STUDS (400CT-33 @ 600 O.C.) W/ 25mm GB-SL
- PW8 — 190mm CONCRETE BLOCK
- PW9 — 140mm CONCRETE BLOCK
- PW10 — 90mm CONCRETE BLOCK- 100% SOLID

FIRE RATING NOTES

REATIN EXISTING FIRE RATING :

1. FOR 1956, 1959 AND 1963 CLASSROOM WINGS : ALL NEW WORK TO MAINTAIN ASSUMED EXISTING 2 HR FRR FOR FLOOR AND ROOF.
2. MAINTAIN EXISTING ASSUMED FRR AS INDICATED ON 1/A101 AND 2/A101 FOR FIRE SEPARATION

FIRE PROOFING NOTES

1. SEAL TOP OF RATED WALL WITH FIRE STOPPING WITH ULC RATED CONTRUCTION OF SAME RATING AS WALL U.N.O, SEAL NON RATED WALL WITH ACOUSTIC INSULATION AND FIRE STOP BOTH SIDES TO PROVIDE CONTINUOUS SMOKE AND ACOUSTIC SEAL.
2. PROVIDE FIRESTOP & SEAL AT ALL SLAB EDGES.
3. PROVIDE FIRESTOP & SEAL AT ALL STRUCTURAL MEMBER THAT PENETRATE FIRE SEPARATIONS.
4. PROVIDE FIRESTOP & SEAL AT ALL FIRE SEPARATIONS THAT TERMINATE AT EXTERIOR WALLS.
5. PRIME ROOF BEAMS, MECH. UNIT SUPPORT C-CHANNELS & EXPOSED BEAMS. DO NOT PRIME BEAMS TO RECEIVE SPRAY FIREPROOFING.
6. PROVIDE FIRE PROOFING PRODUCTS AS LISTED IN THE ULC/ cUL NOTED, OR APPROVED EQUIVALENT.

RENOVATION NOTES

1. NEW FLOOR FINISH AND BASE. INCLUDE SELF LEVELING COMPOUND TO SUIT NEW FLOOR INSTALLATION. TERMINATE FLOORING UNDER CENTERLINE OF DIVIDING DOORS UNLESS OTHERWISE NOTED OR SHOWN.
1a. PATCH AND MAKE GOOD CONC. SLAB TO RECEIVE NEW FLOOR FINISH AFTER MECH. CONNECTIONS COMPLETED. REFER TO MECH. DWGS FOR EXTENT OF WORK AFFECTING EX. CONC. SLAB (TYP.)
2. NEW PW1 WALL BELOW WINDOW SILL.
2a. NEW PW4 WALL BELOW WINDOW SILL.
3. NEW ±600mm WIDE CHASE UP TO U/S OF SLAB FOR MECH. SERVICES.
4. NEW PW3 WALL UP TO U/S OF SLAB.
5. PROVIDE WOOD FRAMING WITH PLYWOOD (915 x 915mm) TO SUPPORT PROJECTOR INSTALLATION. COORDINATE LOCATION W/ INTERIOR ELEVATIONS AND ELECTRICAL DWGS
6. NEW PW6 WALL UP TO U/S OF BEAM ABOVE
7. NEW MOVABLE MILLWORK MD-01 FOR ALL CLASSROOMS; PROVIDE 50 UNITS
8. PROVIDE NEW WINDOW SILL - 19mm PLAM W/3mm PVC EDGE ON WOOD BLOCKING AROUND NEW AND EXISTING WINDOWS & COLUMN PROFILES.
9. NEW MECH. UNIT VENTILATOR. COORDINATE LOCATION W/ MECH. & ELEC. DWGS ALONG WITH REQUIRED SERVICE CONNECTIONS.
9a. NEW CEILING HUNG MECH. UNIT VENTILATOR. COORDINATE LOCATION W/ MECH. & ELEC. DWGS ALONG WITH REQUIRED SERVICE CONNECTIONS. REFET TO STRUCTURAL DWGS FOR SUPPORT DETAILS
10. PAINT ALL WALLS COMPLETE. PATCH AND MAKE GOOD ALL BLOCK AS REQ'D PRIOR TO PAINTING (REMOVED MILLWORK ETC).
11. CREATE, PATCH AND MAKE GOOD WITH 'PW9' INFILL IN EXISTING WALL FOR NEW MECH. DUCT PENETRATIONS WITH STEEL LINTEL. COORDINATE W/ MECH. AND STRUCT. DWGS. REFER TO TYP. SECTION DETAIL 9/A501
12. NEW LIGHT FIXTURES. REFER TO A300- A305 COORDINATE W/ ELEC. DWGS
12a. MAKE GOOD EXISTING ACT CEILING AFTER COMPLETION OF MECH CONNECTIONS. COORDINATE W/ MECH. & ELEC. DWGS FOR ADDITIONAL REQUIREMENTS.
12b. NEW CEILING, REFER TO A300- A305 FOR TYPE AND DETAIL OF CEILING. COORDINATE W/ ELEC. DWGS
13. PROVIDE NEW MANUAL WINDOW SHADES WITH WOOD BLOCKING AT WINDOW HEADS FOR INSTALLATION. WINDOW SHADE SIZE TO BE 1600mmx2100mm AND INCLUDE FOR 200 WINDOWS
14. FILL IN, PATCH AND MAKE GOOD EXISTING EXPOSED CONCRETE CEILING. PAINT ALL CEILINGS COMPLETE. PATCH AND MAKE GOOD ALL EXISTING EXPOSED SURFACE AS REQ'D PRIOR TO PAINTING (REMOVED LIGHT FIXTURES, CONDUITS ETC).
15. NEW CMU 'PW8' INFILL (600x 400mm) TO BLOCK OFF EXISTING DUCT PENETRATIONS. ASSUME 3 INFILLS PER CLASSROOM AND 4 PER SCIENCE LABS
16. NEW MECH. DUCT FLOOR PENETRATION. REFER TO MECH. AND STRUCT. DWGS FOR SCOPE COORDINATION. REFER TO TYP. SECTION DETAILS ON DWG A502
17. NEW METAL LOCKERS WITH FULL HEIGHT METAL TOP AND END TRIMS TO MATCH EXISTING COLOURS
18. NEW FULL HEIGHT WOOD TRIM WITH WOOD BLOCKING TO FORM A FINISHED EDGE FOR RETAINED EXISTING WALL FINISHES. REFER TO DETAIL 6/A702
19. NEW MILLWORK END PANEL TO FORM A FINISHED EDGE FOR RETAINED EXISTING MILLWORK
20. SC01 TO REPLACE EXST. WINDOW PANE WITH INSULATED METAL PANEL FOR NEW MECH. LOUVER IN EXISTING EXTERIOR WINDOW FRAMES. TOTAL 13 WINDOW PANES - ASSUME EACH PANE SIZE 650 x 1900mm. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION. COORDINATE CUTOUT SIZES WITH SC03.
21. SC01 TO PROVIDE NEW METAL TRIM AT EXISTING METAL WALL PANEL CLADDING TO COMPLETE MECH. LOUVER INSTALLATION. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION. COORDINATE CUTOUT SIZES WITH SC03.
22. SC01 TO INCLUDE TEMPORARY SUPPORT FOR ALL EXISTING WINDOWS (IN 1963 WING) WHILE COLUMN CLADDING WORK IN PROGRESS. ALSO TO INCLUDE FOR CAULK AND SEAL FOR THE SAME ONCE COLUMN CLADDING IS COMPLETE
23. NEW METAL LOCKERS ON EXISTING CONC. BASE WITH NEW TOP PANEL AND END TRIMS. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION.
24. RETAIN EXISTING WALL PARTITION ASSEMBLY WITH ALL ATTACHED COMPONENTS. EXISTING PARTITION SECURED TO THE SLAB ABOVE.
25. SC01 TO REPLACE EXST. WINDOW PANE WITH NEW WINDOW GLAZING SG-A IN EXISTING EXTERIOR WINDOW FRAMES. TOTAL 6 WINDOW PANES - ASSUME EACH PANE SIZE 900 x 1500mm. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION.
26. SC01 TO PROVIDE INTUMESCENT PAINTING FOR EXISTING STEEL COLUMNS 6x6WF 15.5 (APROX. 45 COLUMNS ON EACH FLOOR = 90 LOCATIONS) ASSUME REQUIRED COVERAGE HEIGHT TO BE 2.8 METER (FROM FLOOR TO UNDERSIDE OF EXISTING BEAM CLADDING)
27. 1 HOUR RATED MECHANICAL SHAFT BY SC-09. SC01 TO PROVIDE 2 HR. FIRE RESISTANCE RATING FOR ALL NEW STRUCTURAL SUPPORT ANGLES, C-CHANNEL BEAMS AT FLOOR AND ROOF PENETRATIONS SUPPORTING EXISTING SECOND FLOOR SLAB AND EXISTING ROOF SLAB.
28. SC01 TO PROVIDE 2 HR. FIRE RESISTANCE RATING FOR NEW STRUCTURAL SUPPORT ANGLES, C-CHANNEL BEAMS SUPPORTING EXISTING ROOF SLAB AT **RTU-1**, **RTU-2** AND **RTU-5**.

Halton District School Board

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NELSON HIGH SCHOOL RENOVATIONS

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Burlington, Ontario

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sn/der

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Key Plan N.T.S.

Project North — True North

No.	Revisions	Date
3	REISSUED W/ ADDENDUM NO. 2	2024 05 30
2	ISSUED FOR BIDS	2024 05 13
1	ISSUED FOR PERMIT	2024 04 29

No.	Issue	Date

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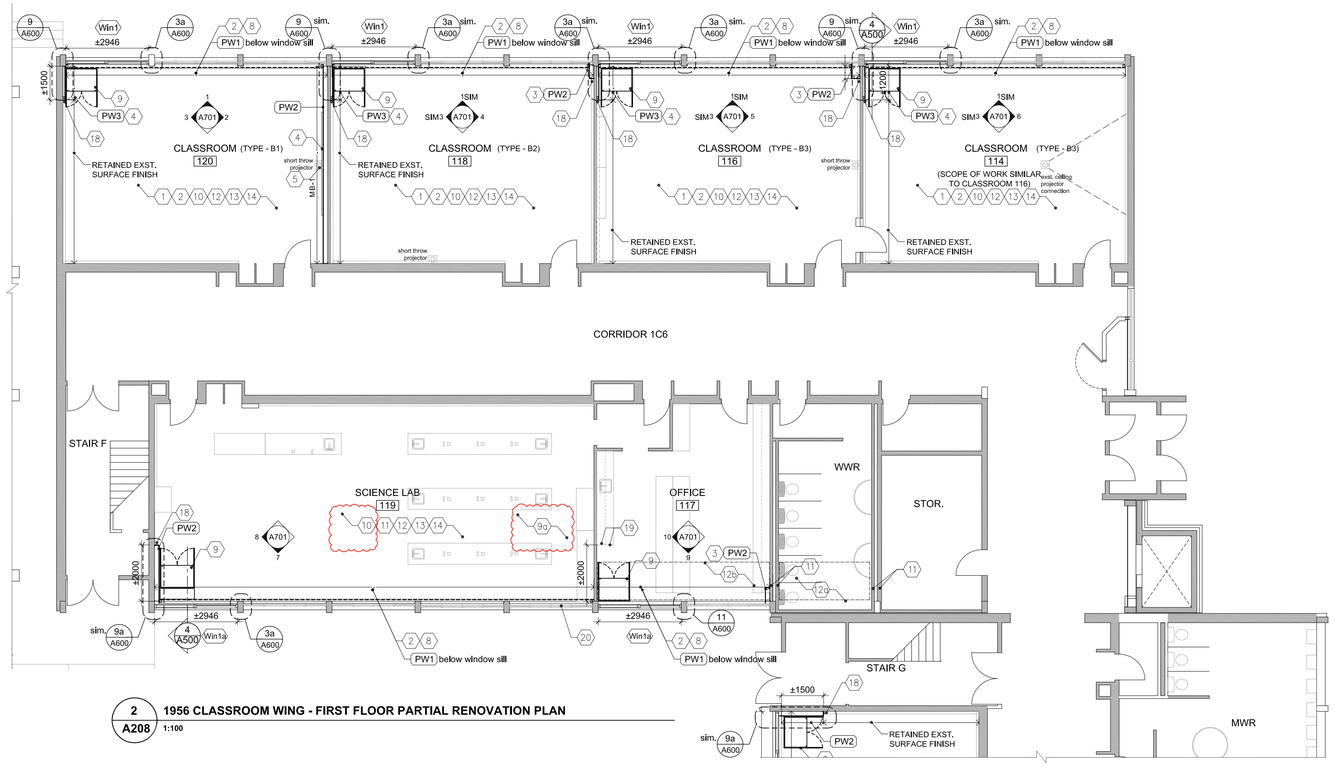
ONTARIO ASSOCIATION OF ARCHITECTS
AVINASH GARDE
LICENCE
6242

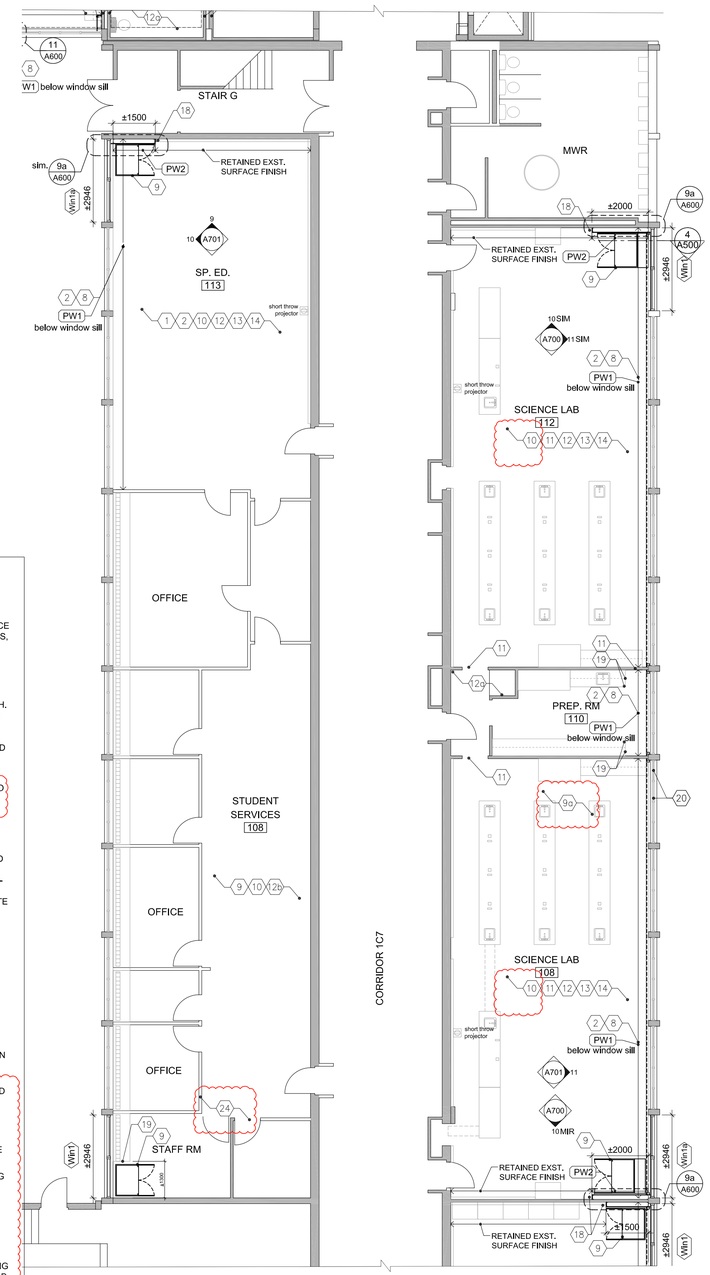
Drawing Title:

FIRST FLOOR PARTIAL RENOVATION PLAN

Scale:	1:100	Date:	02/22/2018
Drawn by:	MS	Checked by:	
Job No.	2323	Drawing No.	A 207



2 / A208 1956 CLASSROOM WING - FIRST FLOOR PARTIAL RENOVATION PLAN
1:100



1 / A208 1956 CLASSROOM WING - FIRST FLOOR PARTIAL RENOVATION PLAN
1:100

FIRE RATING NOTES

REATIN EXISTING FIRE RATING :

1. FOR 1956, 1959 AND 1963 CLASSROOM WINGS : ALL NEW WORK TO MAINTAIN ASSUMED EXISTING 2 HR FRR FOR FLOOR AND ROOF.
2. MAINTAIN EXISTING ASSUMED FRR AS INDICATED ON 1/A101 AND 2/A101 FOR FIRE SEPARATION

FIRE PROOFING NOTES

1. SEAL TOP OF RATED WALL WITH FIRE STOPPING WITH ULC RATED CONTRUCTION OF SAME RATING AS WALL U.N.O. SEAL NON RATED WALL WITH ACOUSTIC INSULATION AND FIRE STOP BOTH SIDES TO PROVIDE CONTINUOUS SMOKE AND ACOUSTIC SEAL.
2. PROVIDE FIRESTOP & SEAL AT ALL SLAB EDGES.
3. PROVIDE FIRESTOP & SEAL AT ALL STRUCTURAL MEMBER THAT PENETRATE FIRE SEPARATIONS.
4. PROVIDE FIRESTOP & SEAL AT ALL FIRE SEPARATIONS THAT TERMINATE AT EXTERIOR WALLS.
5. PRIME ROOF BEAMS, MECH. UNIT SUPPORT C-CHANNELS & EXPOSED BEAMS. DO NOT PRIME BEAMS TO RECEIVE SPRAY FIREPROOFING.
6. PROVIDE FIRE PROOFING PRODUCTS AS LISTED IN THE ULC/ cUL NOTED, OR APPROVED EQUIVALENT.

INTERIOR PARTITION WALL TYPES

PW1	16mm GB-AR VAPOUR RETARDER 92mm METAL STUDS @ 400 O.C. WITH 75mm BATT INS. AIR BARRIER SHEET MEMBRANE EXISTING BLOCK
PW2	16mm GB-AR 152mm METAL STUDS @ 400 O.C. WITH
PW3	16mm GB-AR 64mm METAL STUDS @ 400 O.C. WITH
PW4	16MM GB-AR ON 22MM FURRING HAT SECTIONS @400MM O.C. MAX. ON EXISTING WALL
PW5	16mm GB-AR LAMINATED ON EXST. BLOCK
PW6	16MM GB-AR ON 19x38 WOOD BLOCKING ON EXISTING STEEL COLUMN
PW7	ULC W446: 1 HR RATED WALL (System F-1h) 16mm GB-FR 102mm 'C-T' SHAPED STUDS (400CT-33 @ 600 O.C.) W/ 25mm GB-SL
PW8	190mm CONCRETE BLOCK
PW9	140mm CONCRETE BLOCK
PW10	90mm CONCRETE BLOCK- 100% SOLID

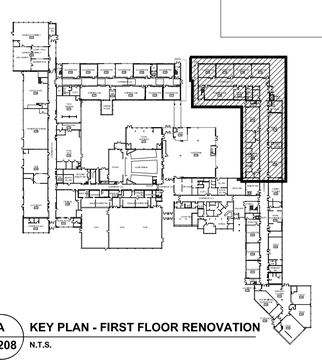
ABBREVIATIONS

AL/ALUM - ALUMINUM
AFF - ABOVE FINISH FLOOR
AVBSM - AIR VAPOUR BARRIER SHEET MEMBRANE
C.J - CONTROL JOINT
CMU - CONCRETE MASONRY UNIT
CONT - CONTINUOUS
C/W - COMPLETE WITH
DIA. - DIAMETER
E.J. - EXPANSION JOINT
EX/EXST - EXISTING
FEC - FIRE EXTINGUISHER CABINET, FULLY RECESSED - TYP. SEE MECH. DWGS
FRR - FIRE RESISTANT RATING
GB - GYPSUM BOARD
GB-AR - ABUSE- RESISTANT GYPSUM BOARD
GB-BB - BACKING BOARD GYPSUM BOARD
GB-FR - FIRE- RATED GYPSUM BOARD
GB-SB - CEILING/ SOFFIT GYPSUM BOARD
GB-SL - SHAFT LINER GYPSUM BOARD
GL - GLAZING
GSB - GYPSUM SHEATHING BOARD
INS - INSULATION
LOK - METAL LOCKER
MB - MARKER BOARD
MD - MILLWORK DETAIL
MIR - MIRROR
MIRR - MIRRORED
MWP - METAL WALL PANEL
NIC - NOT IN CONTRACT
NTS - NOT TO SCALE
O/ - OVER
OD - OUTER DIAMETER
PREFIN. - PREFINISHED
PT. PLY - PRESSURE TREATED PLYWOOD
SIM - SIMILAR
SS - STAINLESS STEEL
TB - TACK BOARD
UNO - UNLESS OTHERWISE NOTED
U/S - UNDERSIDE
W/ - WITH

RENOVATION NOTES

1. NEW FLOOR FINISH AND BASE. INCLUDE SELF LEVELING COMPOUND TO SUIT NEW FLOOR INSTALLATION. TERMINATE FLOORING UNDER CENTERLINE OF DIVIDING DOORS UNLESS OTHERWISE NOTED OR SHOWN.
1a. PATCH AND MAKE GOOD CONC. SLAB TO RECEIVE NEW FLOOR FINISH AFTER MECH. CONNECTIONS COMPLETED. REFER TO MECH. DWGS FOR EXTENT OF WORK AFFECTING EX. CONC. SLAB (TYP.)
2. NEW PW1 WALL BELOW WINDOW SILL.
2a. NEW PW4 WALL BELOW WINDOW SILL.
3. NEW ±600mm WIDE CHASE UP TO U/S OF SLAB FOR MECH. SERVICES.
4. NEW PW3 WALL UP TO U/S OF SLAB.
5. PROVIDE WOOD FRAMING WITH PLYWOOD (915 x 915mm) TO SUPPORT PROJECTOR INSTALLATION. COORDINATE LOCATION W/ INTERIOR ELEVATIONS AND ELECTRICAL DWGS
6. NEW PW6 WALL UP TO U/S OF BEAM ABOVE
7. NEW MOVABLE MILLWORK MD-01 FOR ALL CLASSROOMS; PROVIDE 50 UNITS
8. PROVIDE NEW WINDOW SILL - 19mm PLAM W/3mm PVC EDGE ON WOOD BLOCKING AROUND NEW AND EXISTING WINDOWS & COLUMN PROFILES.
9. NEW MECH. UNIT VENTILATOR. COORDINATE LOCATION W/ MECH. & ELEC. DWGS ALONG WITH REQUIRED SERVICE CONNECTIONS.
9a. NEW CEILING HUNG MECH. UNIT VENTILATOR. COORDINATE LOCATION W/ MECH. & ELEC. DWGS ALONG WITH REQUIRED SERVICE CONNECTIONS. REFET TO STRUCTURAL DWGS FOR SUPPORT DETAILS
10. PAINT ALL WALLS COMPLETE. PATCH AND MAKE GOOD ALL BLOCK AS REQ'D PRIOR TO PAINTING (REMOVED MILLWORK ETC).
11. CREATE, PATCH AND MAKE GOOD WITH 'PW9' INFILL IN EXISTING WALL FOR NEW MECH. DUCT PENETRATIONS WITH STEEL LINTEL. COORDINATE W/ MECH. AND STRUCT. DWGS. REFER TO TYP. SECTION DETAIL 9/A501
12. NEW LIGHT FIXTURES. REFER TO A300- A305 COORDINATE W/ ELEC. DWGS
12a. MAKE GOOD EXISTING ACT CEILING AFTER COMPLETION OF MECH CONNECTIONS. COORDINATE W/ MECH. & ELEC. DWGS FOR ADDITIONAL REQUIREMENTS.
12b. NEW CEILING. REFER TO A300- A305 FOR TYPE AND DETAIL OF CEILING. COORDINATE W/ ELEC. DWGS
13. PROVIDE NEW MANUAL WINDOW SHADES WITH WOOD BLOCKING AT WINDOW HEADS FOR INSTALLATION. WINDOW SHADE SIZE TO BE 1600mmx2100mm AND INCLUDE FOR 200 WINDOWS
14. FILL IN, PATCH AND MAKE GOOD EXISTING EXPOSED CONCRETE CEILING. PAINT ALL CEILINGS COMPLETE. PATCH AND MAKE GOOD ALL EXISTING EXPOSED SURFACE AS REQ'D PRIOR TO PAINTING (REMOVED LIGHT FIXTURES, CONDUITS ETC).
15. NEW CMU 'PW8' INFILL (600x 400mm) TO BLOCK OFF EXISTING DUCT PENETRATIONS. ASSUME 3 INFILLS PER CLASSROOM AND 4 PER SCIENCE LABS
16. NEW MECH. DUCT FLOOR PENETRATION. REFER TO MECH. AND STRUCT. DWGS FOR SCOPE COORDINATION. REFER TO TYP. SECTION DETAILS ON DWG A502
17. NEW METAL LOCKERS WITH FULL HEIGHT METAL TOP AND END TRIMS TO MATCH EXISTING COLOURS
18. NEW FULL HEIGHT WOOD TRIM WITH WOOD BLOCKING TO FORM A FINISHED EDGE FOR RETAINED EXISTING WALL FINISHES. REFER TO DETAIL 6/A702
19. NEW MILLWORK END PANEL TO FORM A FINISHED EDGE FOR RETAINED EXISTING MILLWORK
20. SC01 TO REPLACE EXST. WINDOW PANE WITH INSULATED METAL PANEL FOR NEW MECH. LOUVER IN EXISTING EXTERIOR WINDOW FRAMES. TOTAL 13 WINDOW PANES - ASSUME EACH PANE SIZE 650 x 1900mm. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION. COORDINATE CUTOUT SIZES WITH SC03.
21. SC01 TO PROVIDE NEW METAL TRIM AT EXISTING METAL WALL PANEL CLADDING TO COMPLETE MECH. LOUVER INSTALLATION. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION. COORDINATE CUTOUT SIZES WITH SC03.
22. SC01 TO INCLUDE TEMPORARY SUPPORT FOR ALL EXISTING WINDOWS (IN 1963 WING) WHILE COLUMN CLADDING WORK IN PROGRESS. ALSO TO INCLUDE FOR CAULK AND SEAL FOR THE SAME ONCE COLUMN CLADDING IS COMPLETE
23. NEW METAL LOCKERS ON EXISTING CONC. BASE WITH NEW TOP PANEL AND END TRIMS. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION.
24. RETAIN EXISTING WALL PARTITION ASSEMBLY WITH ALL ATTACHED COMPONENTS, EXISTING PARTITION SECURED TO THE SLAB ABOVE.
25. SC01 TO REPLACE EXST. WINDOW PANE WITH NEW WINDOW GLAZING SG-A IN EXISTING EXTERIOR WINDOW FRAMES. TOTAL 6 WINDOW PANES - ASSUME EACH PANE SIZE 900 x 1500mm. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION.
26. SC01 TO PROVIDE INTUMESCENT PAINTING FOR EXISTING STEEL COLUMNS 6x6WF 15.5 (APROX. 45 COLUMNS ON EACH FLOOR = 90 LOCATIONS) ASSUME REQUIRED COVERAGE HEIGHT TO BE 2.8 METER (FROM FLOOR TO UNDERSIDE OF EXISTING BEAM CLADDING)
27. 1 HOUR RATED MECHANICAL SHAFT BY SC-09, SC01 TO PROVIDE 2 HR. FIRE RESISTANCE RATING FOR ALL NEW STRUCTURAL SUPPORT ANGLES, C-CHANNEL BEAMS AT FLOOR AND ROOF PENETRATIONS SUPPORTING EXISTING SECOND FLOOR SLAB AND EXISTING ROOF SLAB.
28. SC01 TO PROVIDE 2 HR. FIRE RESISTANCE RATING FOR NEW STRUCTURAL SUPPORT ANGLES, C-CHANNEL BEAMS SUPPORTING EXISTING ROOF SLAB AT **RTU-1, RTU-2** AND **RTU-5.**

3



A / A208 KEY PLAN - FIRST FLOOR RENOVATION
N.T.S.

Halton District School Board

2050 Guelph Line
Burlington, Ontario

NELSON HIGH SCHOOL RENOVATIONS

4181 NEW STREET
Burlington, Ontario

Architect

sn/der

Snyder Architects Inc.
100 Broadview Ave, Suite 301, Toronto, ON M4M 3H3
tel. 416.966.5444
www.snyderarchitects.ca

Consultants

Mechanical and Electrical Consultants
RDZ Engineering Ltd
30 Pennsylvania Avenue, Unit 17A
Vaughan, Ontario, L4K 4A5
Tel: 416-317-8804

Structural Consultants
Kalos Engineering Inc.
3oo York Boulevard,
Hamilton, Ontario, L8R 3K6
Tel: 905-333-9119

Key Plan N.T.S.

Project North — True North

No.	Revisions	Date
3	REISSUED W/ ADDENDUM NO. 2	2024 05 30
2	ISSUED FOR BIDS	2024 05 13
1	ISSUED FOR PERMIT	2024 04 29

No.	Issue	Date

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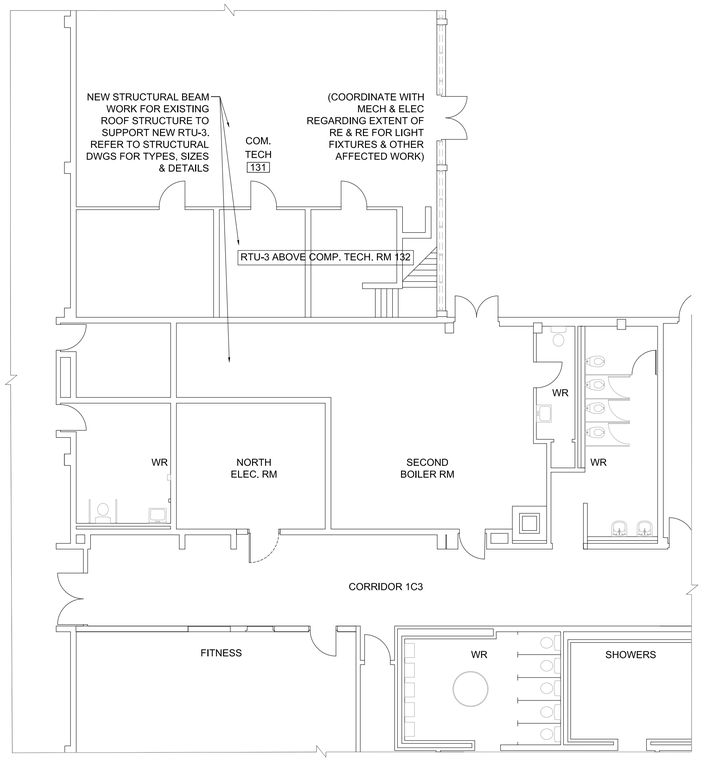
ONTARIO ASSOCIATION OF ARCHITECTS
AVINASH GARDE
LICENCE
5242

Drawing Title:

FIRST FLOOR PARTIAL RENOVATION PLAN

Scale:	1:100	Date:	02/12/2023
Drawn by:	MS	Checked by:	
Job No.	2323	Drawing No.	A 208



2 / A209 **FIRST FLOOR PARTIAL RENOVATION PLAN (SECOND BOILER ROOM)** 1:100

3

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W/	- WITH

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2a. NEW PW4 WALL BELOW WINDOW SILL.

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12. NEW LIGHT FIXTURES. REFER TO A300- A305 COORDINATE W/ ELEC. DWGS

12a. MAKE GOOD EXISTING ACT CEILING AFTER COMPLETION OF MECH CONNECTIONS. COORDINATE W/ MECH. & ELEC. DWGS FOR ADDITIONAL REQUIREMENTS.

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15. NEW CMU 'PW8' INFILL (600x 400mm) TO BLOCK OFF EXISTING DUCT PENETRATIONS. ASSUME 3 INFILLS PER CLASSROOM AND 4 PER SCIENCE LABS

16. NEW MECH. DUCT FLOOR PENETRATION. REFER TO MECH. AND STRUCT. DWGS FOR SCOPE COORDINATION. REFER TO TYP. SECTION DETAILS ON DWG A502

17. NEW METAL LOCKERS WITH FULL HEIGHT METAL TOP AND END TRIMS TO MATCH EXISTING COLOURS

18. NEW FULL HEIGHT WOOD TRIM WITH WOOD BLOCKING TO FORM A FINISHED EDGE FOR RETAINED EXISTING WALL FINISHES. REFER TO DETAIL 6/A702

19. NEW MILLWORK END PANEL TO FORM A FINISHED EDGE FOR RETAINED EXISTING MILLWORK

20. SC01 TO REPLACE EXST. WINDOW PANE WITH INSULATED METAL PANEL FOR NEW MECH. LOUVER IN EXISTING EXTERIOR WINDOW FRAMES. TOTAL 13 WINDOW PANES - ASSUME EACH PANE SIZE 650 x 1900mm. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION. COORDINATE CUTOUT SIZES WITH SC03.

21. SC01 TO PROVIDE NEW METAL TRIM AT EXISTING METAL WALL PANEL CLADDING TO COMPLETE MECH. LOUVER INSTALLATION. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION. COORDINATE CUTOUT SIZES WITH SC03.

22. SC01 TO INCLUDE TEMPORARY SUPPORT FOR ALL EXISTING WINDOWS (IN 1963 WING) WHILE COLUMN CLADDING WORK IN PROGRESS. ALSO TO INCLUDE FOR CAULK AND SEAL FOR THE SAME ONCE COLUMN CLADDING IS COMPLETE

23. NEW METAL LOCKERS ON EXISTING CONC. BASE WITH NEW TOP PANEL AND END TRIMS. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION.

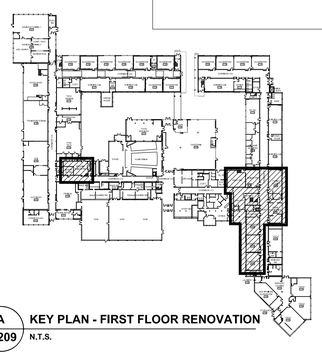
24. RETAIN EXISTING WALL PARTITION ASSEMBLY WITH ALL ATTACHED COMPONENTS. EXISTING PARTITION SECURED TO THE SLAB ABOVE.

25. SC01 TO REPLACE EXST. WINDOW PANE WITH NEW WINDOW GLAZING SG-A IN EXISTING EXTERIOR WINDOW FRAMES. TOTAL 6 WINDOW PANES - ASSUME EACH PANE SIZE 900 x 1500mm. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION.

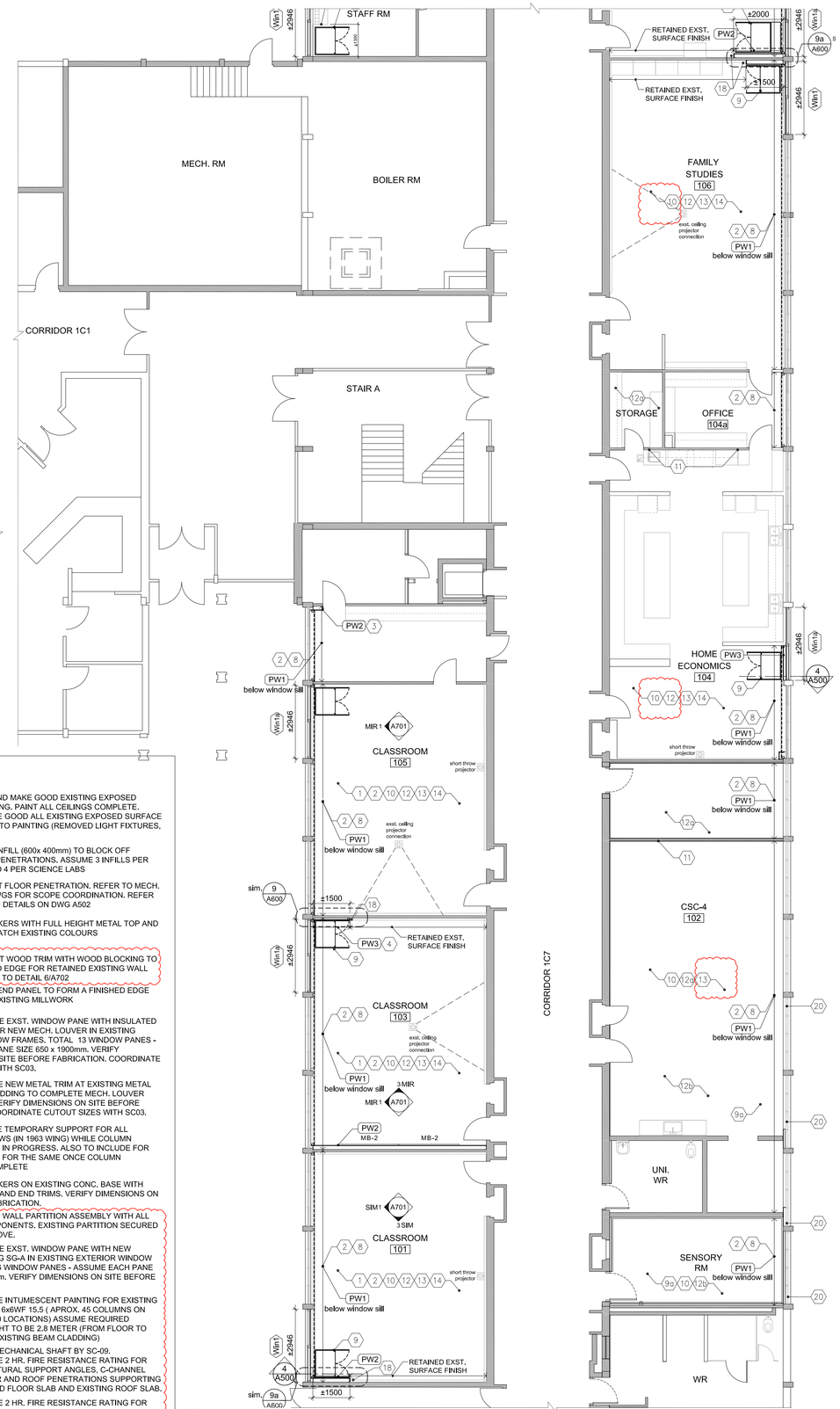
26. SC01 TO PROVIDE INTUMESCENT PAINTING FOR EXISTING STEEL COLUMNS 6x6WF 15.5 (APROX. 45 COLUMNS ON EACH FLOOR = 90 LOCATIONS) ASSUME REQUIRED COVERAGE HEIGHT TO BE 2.8 METER (FROM FLOOR TO UNDERSIDE OF EXISTING BEAM CLADDING)

27. 1 HOUR RATED MECHANICAL SHAFT BY SC-09. SC01 TO PROVIDE 2 HR. FIRE RESISTANCE RATING FOR ALL NEW STRUCTURAL SUPPORT ANGLES, C-CHANNEL BEAMS AT FLOOR AND ROOF PENETRATIONS SUPPORTING EXISTING SECOND FLOOR SLAB AND EXISTING ROOF SLAB.

28. SC01 TO PROVIDE 2 HR. FIRE RESISTANCE RATING FOR NEW STRUCTURAL SUPPORT ANGLES, C-CHANNEL BEAMS SUPPORTING EXISTING ROOF SLAB AT **RTU-1, RTU-2** AND **RTU-5.**



A / A209 **KEY PLAN - FIRST FLOOR RENOVATION** N.T.S.



1 / A209 **1956 WING - FIRST FLOOR PARTIAL RENOVATION PLAN (BOILER RM, CLASSROOMS, FAMILY STUDIES AND HOME ECO.)** 1:100

Halton District School Board

2050 Guelph Line
Burlington, Ontario

NELSON HIGH SCHOOL RENOVATIONS

4181 NEW STREET
Burlington, Ontario

Architect

sn/der

Snyder Architects Inc.
100 Broadview Ave, Suite 301, Toronto, ON M4M 3H3
tel. 416.966.5444
www.snyderarchitects.ca

Consultants

Mechanical and Electrical Consultants
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30 Pennsylvania Avenue, Unit 17A
Vaughan, Ontario, L4K 4A5
Tel: 416-317-8804

Structural Consultants
Kalos Engineering Inc.
3oo York Boulevard,
Hamilton, Ontario, L8R 3K6
Tel: 905-333-9119

Key Plan N.T.S.

Project North — True North

No.	Revisions	Date
3	REISSUED W/ ADDENDUM NO. 2	2024 05 30
2	ISSUED FOR BIDS	2024 05 13
1	ISSUED FOR PERMIT	2024 04 29
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ONTARIO ASSOCIATION OF ARCHITECTS
AVINASH GARDE
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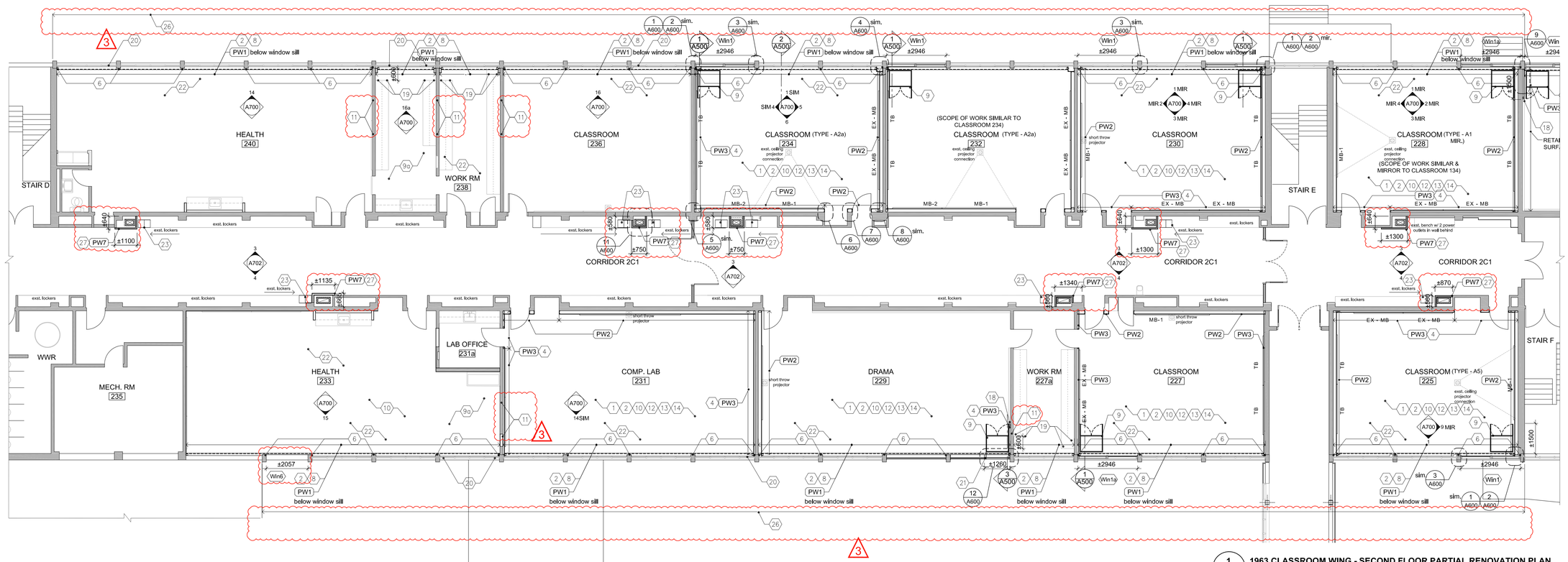
Drawing Title:

FIRST FLOOR PARTIAL RENOVATION PLAN

Scale:	1:100	Date:	02/12/2023
Drawn by:	MS	Checked by:	
Job No.	2323	Drawing No.	A 209



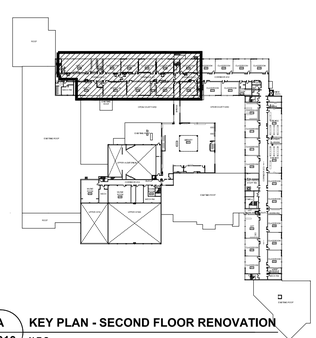
1 / A210 1963 CLASSROOM WING - SECOND FLOOR PARTIAL RENOVATION PLAN
1:100

GENERAL NOTES

1. CONTRACTOR TO ENSURE THAT THE PORTION OF THE BUILDING BEING RETAINED IS HANDED BACK TO THE OWNER (ON COMPLETION OF CONSTRUCTION) IN A CONDITION SIMILAR TO IT'S EXISTING CONDITION OR BETTER. THIS REQUIREMENT INCLUDES PROVISION OF ALL NECESSARY PROTECTIVE MEASURES LIKE SECURITY, PROTECTION FROM THE ELEMENTS AND WEATHER, HEATING / DEHUMIDIFICATION AS NECESSARY, ETC.
2. REMOVE EXISTING TACKBOARDS & MARKERBOARDS INCLUDING ADHESIVE AS NECESSARY TO DO RENOVATION, INCLUDE FILLING IN DAMAGED CMU.
3. TO PERFORM DEMOLITION OF EXISTING BUILDING ELEMENTS CO-ORDINATE WITH STRUCTURAL AND MECHANICAL & ELECTRICAL DRAWINGS.
4. CONTRACTOR IS RESPONSIBLE TO CUT EXISTING SLAB ON GRADE AS INDICATED FOR NEW SANITARY & PIPELINES. REFER TO MECH. DWGS. FOR EXACT LOCATIONS. INFILL FLOOR SLAB TO MATCH EXISTING AND MAKE GOOD ALL AFFECTED SURFACES.
5. CONTRACTOR IS RESPONSIBLE TO CAREFULLY REMOVE EXISTING CEILING TILE TO ACCOMMODATE ALL NEW MECH. & ELEC. CONNECTIONS. REINSTATE TILE AFTER WORK IS COMPLETE. REFER TO MECH. DWGS. FOR EXACT LOCATIONS.
6. FOR EXACT QUANTITIES AND LOCATIONS OF MECHANICAL & ELECTRICAL ITEMS, PLEASE REFER MECHANICAL & ELECTRICAL DWGS.

CONSTRUCTION NOTES

1. ALL INTERIOR PARTITIONS TO BE EXTENDED UP TO UNDERSIDE OF SLAB OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. NON LOAD BEARING WALLS TO STOP 25mm BELOW THE UNDERSIDE OF SLAB OR UNDERSIDE OF STEEL DECK. PROVIDE CONTINUOUS SOUND SEALS AT TOP. (ULC) LISTED FIRE STOP & SMOKE SEAL @ U/S OF SLAB, ROOF DECK AND PENETRATIONS PERIMETER REQUIRED AT ALL RATED WALLS.
2. ALL DIMENSIONS ON FLOOR PLANS ARE SHOWN AS MASONRY OPENINGS, (ROUGH OPENINGS)
3. ALL STEEL LINTELS/ BEAMS IN EXTERIOR WALLS / ROOF TO BE GALVANIZED- SEE SPECIFICATIONS.
4. PROVIDE 100mm SOLID CMU CHASE AROUND ALL PIPE AND DUCT DROPS AS REQUIRED. CO-ORDINATE WITH MECH. DWGS.
5. PROVIDE NEW MANUAL WINDOW SHADES
   a) AT ALL NEW AND EXISTING EXTERIOR WINDOWS FOR CLASSROOMS, SCIENCE LABS AND SPECIALTY ROOMS AS MARKED ON PLANS.
   b) PROVIDE WOOD BLOCKING @ WINDOW HEADS FOR SHADE INSTALLATION.
6. CONTRACTOR TO VERIFY EXISTING BUILDING DIMENSIONS AND MODIFY NEW CONSTRUCTION TO SUIT.
7. SC08 FLOORING TO GRIND DOWN OR RAISE EXISTING FLOOR SUBSTRATE TO PROVIDE POSITIVE DRAINAGE TO NEW OR EXISTING FLOOR DRAIN.
8. SC08 FLOORING TO USE SELF LEVELING COMPOUND IF REQUIRED UPON REMOVAL OF EXISTING FLOORING TO SUITE NEW FLOOR INSTALLATION.
9. SC09 DRYWALL AND ACOUSTICS TO INCLUDE PROVISION FOR 50 NEW ACOUSTIC CEILING TILES TO REPLACE ANY DAMAGED TILES WHILE CONNECTING REQUIRED MECH. & ELECTRICAL SERVICES THROUGH EXISTING CORRIDORS.
10. SC09 DRYWALL AND ACOUSTICS TO INCLUDE 10 NUMBERS OF 300x300GB-FR @ EXISTING OPENINGS IN WALLS- LOCATION AS DIRECTED BY CONSULTANT ON SITE.
11. SC01 GENERAL TO INCLUDE PROVISION FOR 3 ADDITIONAL MASONRY CHASES. (300x300mm CLEAR)
12. SC01 GENERAL TO PATCH EXISTING MASONRY OPENINGS FROM MISCELLANEOUS REMOVED PIPES AND DUCTWORK AT EXPOSED CEILINGS. INCLUDE 20 LOCATIONS TO BE CONFIRMED ON SITE, UP TO 300MM IN DIAMETER



A / A210 KEY PLAN - SECOND FLOOR RENOVATION
N.T.S.

ABBREVIATIONS

AL/ALUM	- ALUMINUM
AFF	- ABOVE FINISH FLOOR
AVBSM	- AIR VAPOUR BARRIER SHEET MEMBRANE
C.J	- CONTROL JOINT
CMU	- CONCRETE MASONRY UNIT
CONT	- CONTINUOUS
C/W	- COMPLETE WITH
DIA.	- DIAMETER
E.J.	- EXPANSION JOINT
EX/EXST	- EXISTING
FEC	- FIRE EXTINGUISHER CABINET. FULLY RECESSED - TYP. SEE MECH. DWGS
FRR	- FIRE RESISTANT RATING
GB	- GYPSUM BOARD
GB-AR	- ABUSE- RESISTANT GYPSUM BOARD
GB-BB	- BACKING BOARD GYPSUM BOARD
GB-FR	- FIRE- RATED GYPSUM BOARD
GB-SB	- CEILING/ SOFFIT GYPSUM BOARD
GB-SL	- SHAFT LINER GYPSUM BOARD
GL	- GLAZING
GSB	- GYPSUM SHEATHING BOARD
INS	- INSULATION
LOK	- METAL LOCKER
MB	- MARKER BOARD
MD	- MILLWORK DETAIL
MIR	- MIRROR
MIRR	- MIRRORED
MWP	- METAL WALL PANEL
NIC	- NOT IN CONTRACT
NTS	- NOT TO SCALE
O/	- OVER
OD	- OUTER DIAMETER
PREFIN.	- PREFINISHED
PT. PLY	- PRESSURE TREATED PLYWOOD
SIM	- SIMILAR
SS	- STAINLESS STEEL
TB	- TACK BOARD
UNO	- UNLESS OTHERWISE NOTED
U/S	- UNDERSIDE
W/	- WITH

INTERIOR PARTITION WALL TYPES

PW1	16mm GB-AR VAPOUR RETARDER 92mm METAL STUDS @ 400 O.C. WITH 75mm BATT INS. AIR BARRIER SHEET MEMBRANE EXISTING BLOCK
PW2	16mm GB-AR 152mm METAL STUDS @ 400 O.C. WITH
PW3	16mm GB-AR 64mm METAL STUDS @ 400 O.C. WITH
PW4	16MM GB-AR ON 22MM FURRING HAT SECTIONS @400MM O.C. MAX. ON EXISTING WALL
PW5	16mm GB-AR LAMINATED ON EXST. BLOCK
PW6	16MM GB-AR ON 19x38 WOOD BLOCKING ON EXISTING STEEL COLUMN
PW7	ULC W446: 1 HR RATED WALL (System F-1h) 16mm GB-FR 102mm 'C-T' SHAPED STUDS (400CT-33 @ 600 O.C.) W/ 25mm GB-SL
PW8	190mm CONCRETE BLOCK
PW9	140mm CONCRETE BLOCK
PW10	90mm CONCRETE BLOCK- 100% SOLID

FIRE RATING NOTES

REATIN EXISTING FIRE RATING :

1. FOR 1956, 1959 AND 1963 CLASSROOM WINGS : ALL NEW WORK TO MAINTAIN ASSUMED EXISTING 2 HR FRR FOR FLOOR AND ROOF.
2. MAINTAIN EXISTING ASSUMED FRR AS INDICATED ON 1/A101 AND 2/A101 FOR FIRE SEPARATION

FIRE PROOFING NOTES

1. SEAL TOP OF RATED WALL WITH FIRE STOPPING WITH ULC RATED CONTRUCTION OF SAME RATING AS WALL U.N.O, SEAL NON RATED WALL WITH ACOUSTIC INSULATION AND FIRE STOP BOTH SIDES TO PROVIDE CONTINUOUS SMOKE AND ACOUSTIC SEAL.
2. PROVIDE FIRESTOP & SEAL AT ALL SLAB EDGES.
3. PROVIDE FIRESTOP & SEAL AT ALL STRUCTURAL MEMBER THAT PENETRATE FIRE SEPARATIONS.
4. PROVIDE FIRESTOP & SEAL AT ALL FIRE SEPARATIONS THAT TERMINATE AT EXTERIOR WALLS.
5. PRIME ROOF BEAMS, MECH. UNIT SUPPORT C-CHANNELS & EXPOSED BEAMS. DO NOT PRIME BEAMS TO RECEIVE SPRAY FIREPROOFING.
6. PROVIDE FIRE PROOFING PRODUCTS AS LISTED IN THE ULC/ cUL NOTED, OR APPROVED EQUIVALENT.

RENOVATION NOTES

1. NEW FLOOR FINISH AND BASE. INCLUDE SELF LEVELING COMPOUND TO SUIT NEW FLOOR INSTALLATION. TERMINATE FLOORING UNDER CENTERLINE OF DIVIDING DOORS UNLESS OTHERWISE NOTED OR SHOWN.

1a. PATCH AND MAKE GOOD CONC. SLAB TO RECEIVE NEW FLOOR FINISH AFTER MECH. CONNECTIONS COMPLETED. REFER TO MECH. DWGS FOR EXTENT OF WORK AFFECTING EX. CONC. SLAB (TYP.)

2. NEW PW1 WALL BELOW WINDOW SILL.

2a. NEW PW4 WALL BELOW WINDOW SILL.

3. NEW ±600mm WIDE CHASE UP TO U/S OF SLAB FOR MECH. SERVICES.

4. NEW PW3 WALL UP TO U/S OF SLAB.

5. PROVIDE WOOD FRAMING WITH PLYWOOD (915 x 915mm) TO SUPPORT PROJECTOR INSTALLATION. COORDINATE LOCATION W/ INTERIOR ELEVATIONS AND ELECTRICAL DWGS

6. NEW PW6 WALL UP TO U/S OF BEAM ABOVE

7. NEW MOVABLE MILLWORK MD-01 FOR ALL CLASSROOMS; PROVIDE 50 UNITS

8. PROVIDE NEW WINDOW SILL - 19mm PLAM W/3mm PVC EDGE ON WOOD BLOCKING AROUND NEW AND EXISTING WINDOWS & COLUMN PROFILES.

9. NEW MECH. UNIT VENTILATOR. COORDINATE LOCATION W/ MECH. & ELEC. DWGS ALONG WITH REQUIRED SERVICE CONNECTIONS.

9a. NEW CEILING HUNG MECH. UNIT VENTILATOR. COORDINATE LOCATION W/ MECH. & ELEC. DWGS ALONG WITH REQUIRED SERVICE CONNECTIONS. REFET TO STRUCTURAL DWGS FOR SUPPORT DETAILS

10. PAINT ALL WALLS COMPLETE. PATCH AND MAKE GOOD ALL BLOCK AS REQ'D PRIOR TO PAINTING (REMOVED MILLWORK ETC).

11. CREATE, PATCH AND MAKE GOOD WITH 'PW9' INFILL IN EXISTING WALL FOR NEW MECH. DUCT PENETRATIONS WITH STEEL LINTEL. COORDINATE W/ MECH. AND STRUCT. DWGS. REFER TO TYP. SECTION DETAIL 9/A501

12. NEW LIGHT FIXTURES. REFER TO A300- A305 COORDINATE W/ ELEC. DWGS

12a. MAKE GOOD EXISTING ACT CEILING AFTER COMPLETION OF MECH CONNECTIONS. COORDINATE W/ MECH. & ELEC. DWGS FOR ADDITIONAL REQUIREMENTS.

12b. NEW CEILING, REFER TO A300- A305 FOR TYPE AND DETAIL OF CEILING. COORDINATE W/ ELEC. DWGS

13. PROVIDE NEW MANUAL WINDOW SHADES WITH WOOD BLOCKING AT WINDOW HEADS FOR INSTALLATION. WINDOW SHADE SIZE TO BE 1600mmx2100mm AND INCLUDE FOR 200 WINDOWS

14. FILL IN, PATCH AND MAKE GOOD EXISTING EXPOSED CONCRETE CEILING. PAINT ALL CEILINGS COMPLETE. PATCH AND MAKE GOOD ALL EXISTING EXPOSED SURFACE AS REQ'D PRIOR TO PAINTING (REMOVED LIGHT FIXTURES, CONDUITS ETC).

15. NEW CMU 'PW8' INFILL (600x 400mm) TO BLOCK OFF EXISTING DUCT PENETRATIONS. ASSUME 3 INFILLS PER CLASSROOM AND 4 PER SCIENCE LABS

16. NEW MECH. DUCT FLOOR PENETRATION. REFER TO MECH. AND STRUCT. DWGS FOR SCOPE COORDINATION. REFER TO TYP. SECTION DETAILS ON DWG A502

17. NEW METAL LOCKERS WITH FULL HEIGHT METAL TOP AND END TRIMS TO MATCH EXISTING COLOURS

18. NEW FULL HEIGHT WOOD TRIM WITH WOOD BLOCKING TO FORM A FINISHED EDGE FOR RETAINED EXISTING WALL FINISHES. REFER TO DETAIL 6/A702

19. NEW MILLWORK END PANEL TO FORM A FINISHED EDGE FOR RETAINED EXISTING MILLWORK

20. SC01 TO REPLACE EXST. WINDOW PANE WITH INSULATED METAL PANEL FOR NEW MECH. LOUVER IN EXISTING EXTERIOR WINDOW FRAMES. TOTAL 13 WINDOW PANES - ASSUME EACH PANE SIZE 650 x 1900mm. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION. COORDINATE CUTOUT SIZES WITH SC03.

21. SC01 TO PROVIDE NEW METAL TRIM AT EXISTING METAL WALL PANEL CLADDING TO COMPLETE MECH. LOUVER INSTALLATION. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION. COORDINATE CUTOUT SIZES WITH SC03.

22. SC01 TO INCLUDE TEMPORARY SUPPORT FOR ALL EXISTING WINDOWS (IN 1963 WING) WHILE COLUMN CLADDING WORK IN PROGRESS. ALSO TO INCLUDE FOR CAULK AND SEAL FOR THE SAME ONCE COLUMN CLADDING IS COMPLETE

23. NEW METAL LOCKERS ON EXISTING CONC. BASE WITH NEW TOP PANEL AND END TRIMS. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION.

24. RETAIN EXISTING WALL PARTITION ASSEMBLY WITH ALL ATTACHED COMPONENTS. EXISTING PARTITION SECURED TO THE SLAB ABOVE.

25. SC01 TO REPLACE EXST. WINDOW PANE WITH NEW WINDOW GLAZING SG-A IN EXISTING EXTERIOR WINDOW FRAMES. TOTAL 6 WINDOW PANES - ASSUME EACH PANE SIZE 900 x 1500mm. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION.

26. SC01 TO PROVIDE INTUMESCENT PAINTING FOR EXISTING STEEL COLUMNS 6x6WF 15.5 (APROX. 45 COLUMNS ON EACH FLOOR = 90 LOCATIONS) ASSUME REQUIRED COVERAGE HEIGHT TO BE 2.8 METER (FROM FLOOR TO UNDERSIDE OF EXISTING BEAM CLADDING)

27. 1 HOUR RATED MECHANICAL SHAFT BY SC-09. SC01 TO PROVIDE 2 HR. FIRE RESISTANCE RATING FOR ALL NEW STRUCTURAL SUPPORT ANGLES, C-CHANNEL BEAMS AT FLOOR AND ROOF PENETRATIONS SUPPORTING EXISTING SECOND FLOOR SLAB AND EXISTING ROOF SLAB

28. SC01 TO PROVIDE 2 HR. FIRE RESISTANCE RATING FOR NEW STRUCTURAL SUPPORT ANGLES, C-CHANNEL BEAMS SUPPORTING EXISTING ROOF SLAB AT **RTU-1**, **RTU-2** AND **RTU-5**.

Halton District School Board

2050 Guelph Line
Burlington, Ontario

NELSON HIGH SCHOOL RENOVATIONS

4181 NEW STREET
Burlington, Ontario

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sn/der

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www.snyderarchitects.ca

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Structural Consultants
Kalos Engineering Inc.
3oo York Boulevard,
Hamilton, Ontario, L8R 3K6
Tel: 905-333-9119

Key Plan N.T.S.

Project North — True North

No.	Revisions	Date
3	REISSUED W/ ADDENDUM NO. 2	2024 05 30
2	ISSUED FOR BIDS	2024 05 13
1	ISSUED FOR PERMIT	2024 04 29

No.	Issue	Date

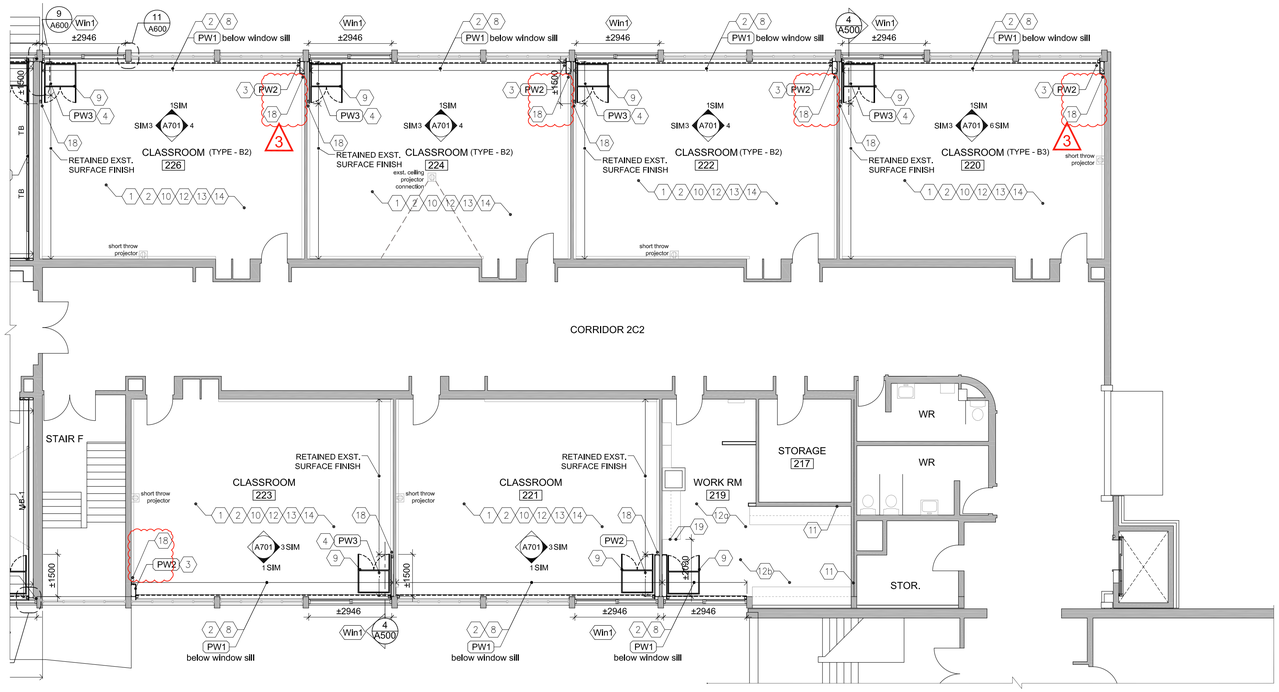
General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

ONTARIO ASSOCIATION OF ARCHITECTS
AVINASH GARDE
LICENCE
6242

Drawing Title:

SECOND FLOOR PARTIAL RENOVATION PLAN

Scale:	1:100	Date:	12/04/2023
Drawn by:	MS	Checked by:	
Job No.	2323	Drawing No.	A 210



2 / A211 1956 CLASSROOM WING - SECOND FLOOR PARTIAL RENOVATION PLAN
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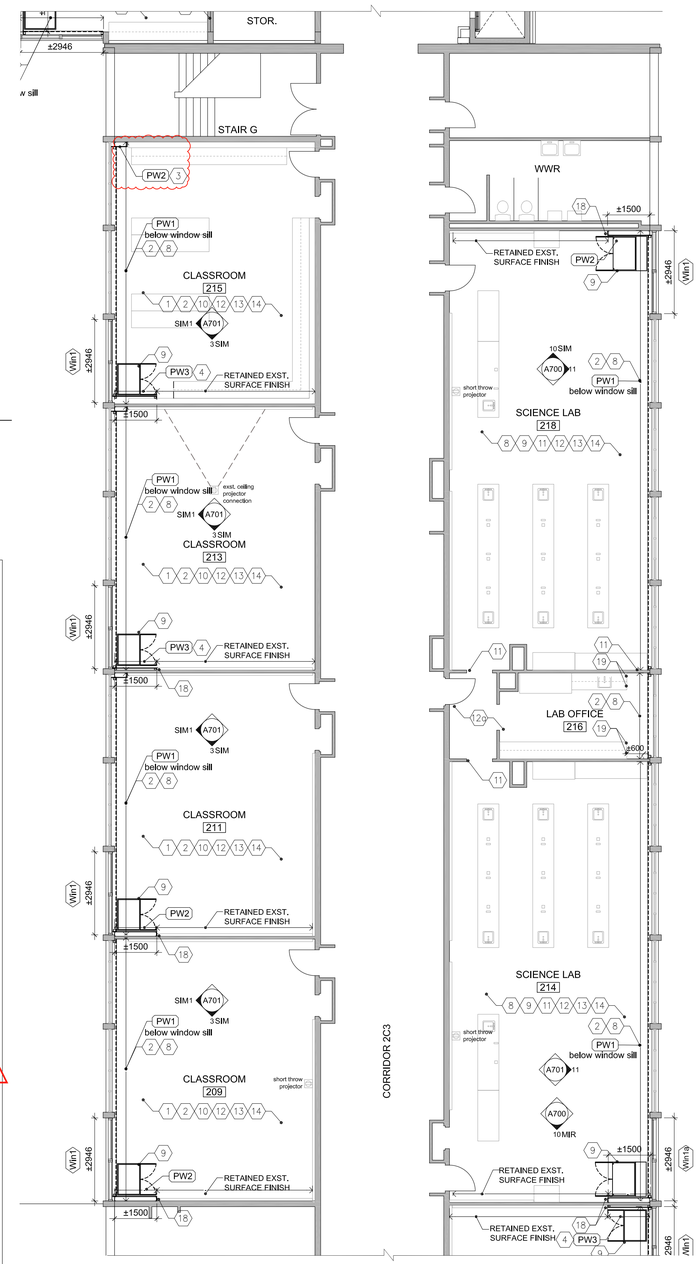

1 / A211 1959 CLASSROOM WING - SECOND FLOOR PARTIAL RENOVATION PLAN
1:100

FIRE RATING NOTES

REATIN EXISTING FIRE RATING :

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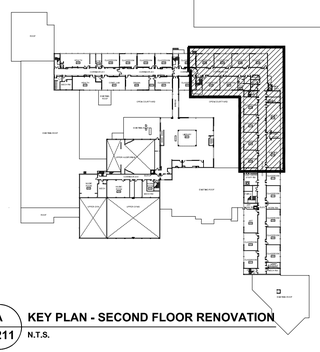
FIRE PROOFING NOTES

1. SEAL TOP OF RATED WALL WITH FIRE STOPPING WITH ULC RATED CONTRUCTION OF SAME RATING AS WALL U.N.O. SEAL NON RATED WALL WITH ACOUSTIC INSULATION AND FIRE STOP BOTH SIDES TO PROVIDE CONTINUOUS SMOKE AND ACOUSTIC SEAL.
2. PROVIDE FIRESTOP & SEAL AT ALL SLAB EDGES.
3. PROVIDE FIRESTOP & SEAL AT ALL STRUCTURAL MEMBER THAT PENETRATE FIRE SEPARATIONS.
4. PROVIDE FIRESTOP & SEAL AT ALL FIRE SEPARATIONS THAT TERMINATE AT EXTERIOR WALLS.
5. PRIME ROOF BEAMS, MECH. UNIT SUPPORT C-CHANNELS & EXPOSED BEAMS. DO NOT PRIME BEAMS TO RECEIVE SPRAY FIREPROOFING.
6. PROVIDE FIRE PROOFING PRODUCTS AS LISTED IN THE ULC/ cUL NOTED, OR APPROVED EQUIVALENT.

INTERIOR PARTITION WALL TYPES

PW1	16mm GB-AR	VAPOUR RETARDER 92mm METAL STUDS @ 400 O.C. WITH 75mm BATT INS. AIR BARRIER SHEET MEMBRANE EXISTING BLOCK
PW2	16mm GB-AR	152mm METAL STUDS @ 400 O.C. WITH
PW3	16mm GB-AR	64mm METAL STUDS @ 400 O.C. WITH
PW4	16MM GB-AR	ON 22MM FURRING HAT SECTIONS @400MM O.C. MAX. ON EXISTING WALL
PW5	16mm GB-AR LAMINATED ON EXST. BLOCK	
PW6	16MM GB-AR	ON 19x38 WOOD BLOCKING ON EXISTING STEEL COLUMN
PW7	ULC W446: 1 HR RATED WALL (System F-1h)	16mm GB-FR 102mm 'C-T' SHAPED STUDS (400CT-33 @ 600 O.C.) W/ 25mm GB-SL
PW8	190mm CONCRETE BLOCK	
PW9	140mm CONCRETE BLOCK	
PW10	90mm CONCRETE BLOCK- 100% SOLID	



A / A211 KEY PLAN - SECOND FLOOR RENOVATION
N.T.S.

ABBREVIATIONS

AL/ALUM - ALUMINUM
AFF - ABOVE FINISH FLOOR
AVBSM - AIR VAPOUR BARRIER SHEET MEMBRANE
C.J - CONTROL JOINT
CMU - CONCRETE MASONRY UNIT
CONT - CONTINUOUS
C/W - COMPLETE WITH
DIA. - DIAMETER
E.J. - EXPANSION JOINT
EX/EXST - EXISTING
FEC - FIRE EXTINGUISHER CABINET. FULLY RECESSED - TYP. SEE MECH. DWGS
FRR - FIRE RESISTANT RATING
GB - GYPSUM BOARD
GB-AR - ABUSE- RESISTANT GYPSUM BOARD
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MIR - MIRROR
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NIC - NOT IN CONTRACT
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SIM - SIMILAR
SS - STAINLESS STEEL
TB - TACK BOARD
UNO - UNLESS OTHERWISE NOTED
U/S - UNDERSIDE
W/ - WITH

RENOVATION NOTES

1. NEW FLOOR FINISH AND BASE. INCLUDE SELF LEVELING COMPOUND TO SUIT NEW FLOOR INSTALLATION. TERMINATE FLOORING UNDER CENTERLINE OF DIVIDING DOORS UNLESS OTHERWISE NOTED OR SHOWN.
1a. PATCH AND MAKE GOOD CONC. SLAB TO RECEIVE NEW FLOOR FINISH AFTER MECH. CONNECTIONS COMPLETED. REFER TO MECH. DWGS FOR EXTENT OF WORK AFFECTING EX. CONC. SLAB (TYP.)
2. NEW PW1 WALL BELOW WINDOW SILL.
2a. NEW PW4 WALL BELOW WINDOW SILL.
3. NEW ±600mm WIDE CHASE UP TO U/S OF SLAB FOR MECH. SERVICES.
4. NEW PW3 WALL UP TO U/S OF SLAB.
5. PROVIDE WOOD FRAMING WITH PLYWOOD (915 x 915mm) TO SUPPORT PROJECTOR INSTALLATION. COORDINATE LOCATION W/ INTERIOR ELEVATIONS AND ELECTRICAL DWGS
6. NEW PW6 WALL UP TO U/S OF BEAM ABOVE
7. NEW MOVABLE MILLWORK MD-01 FOR ALL CLASSROOMS; PROVIDE 50 UNITS
8. PROVIDE NEW WINDOW SILL - 19mm PLAM W/3mm PVC EDGE ON WOOD BLOCKING AROUND NEW AND EXISTING WINDOWS & COLUMN PROFILES.
9. NEW MECH. UNIT VENTILATOR. COORDINATE LOCATION W/ MECH. & ELEC. DWGS ALONG WITH REQUIRED SERVICE CONNECTIONS.
9a. NEW CEILING HUNG MECH. UNIT VENTILATOR. COORDINATE LOCATION W/ MECH. & ELEC. DWGS ALONG WITH REQUIRED SERVICE CONNECTIONS. REFET TO STRUCTURAL DWGS FOR SUPPORT DETAILS
10. PAINT ALL WALLS COMPLETE. PATCH AND MAKE GOOD ALL BLOCK AS REQ'D PRIOR TO PAINTING (REMOVED MILLWORK ETC).
11. CREATE, PATCH AND MAKE GOOD WITH 'PW9' INFILL IN EXISTING WALL FOR NEW MECH. DUCT PENETRATIONS WITH STEEL LINTEL. COORDINATE W/ MECH. AND STRUCT. DWGS. REFER TO TYP. SECTION DETAIL 9/A501
12. NEW LIGHT FIXTURES. REFER TO A300- A305 COORDINATE W/ ELEC. DWGS
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15. NEW CMU 'PW8' INFILL (600x 400mm) TO BLOCK OFF EXISTING DUCT PENETRATIONS. ASSUME 3 INFILLS PER CLASSROOM AND 4 PER SCIENCE LABS
16. NEW MECH. DUCT FLOOR PENETRATION. REFER TO MECH. AND STRUCT. DWGS FOR SCOPE COORDINATION. REFER TO TYP. SECTION DETAILS ON DWG A502
17. NEW METAL LOCKERS WITH FULL HEIGHT METAL TOP AND END TRIMS TO MATCH EXISTING COLOURS
18. NEW FULL HEIGHT WOOD TRIM WITH WOOD BLOCKING TO FORM A FINISHED EDGE FOR RETAINED EXISTING WALL FINISHES. REFER TO DETAIL 6/A702
19. NEW MILLWORK END PANEL TO FORM A FINISHED EDGE FOR RETAINED EXISTING MILLWORK
20. SC01 TO REPLACE EXST. WINDOW PANE WITH INSULATED METAL PANEL FOR NEW MECH. LOUVER IN EXISTING EXTERIOR WINDOW FRAMES. TOTAL 13 WINDOW PANES - ASSUME EACH PANE SIZE 650 x 1900mm. VERIFY DIMENSIONS ON SITE BEFORE FABRICATION. COORDINATE CUTOUT SIZES WITH SC03.
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24. RETAIN EXISTING WALL PARTITION ASSEMBLY WITH ALL ATTACHED COMPONENTS, EXISTING PARTITION SECURED TO THE SLAB ABOVE.
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27. 1 HOUR RATED MECHANICAL SHAFT BY SC-09. SC01 TO PROVIDE 2 HR. FIRE RESISTANCE RATING FOR ALL NEW STRUCTURAL SUPPORT ANGLES, C-CHANNEL BEAMS AT FLOOR AND ROOF PENETRATIONS SUPPORTING EXISTING SECOND FLOOR SLAB AND EXISTING ROOF SLAB.
28. SC01 TO PROVIDE 2 HR. FIRE RESISTANCE RATING FOR NEW STRUCTURAL SUPPORT ANGLES, C-CHANNEL BEAMS SUPPORTING EXISTING ROOF SLAB AT **RTU-1, RTU-2** AND **RTU-5.**

Halton District School Board

2050 Guelph Line
Burlington, Ontario

NELSON HIGH SCHOOL RENOVATIONS

4181 NEW STREET
Burlington, Ontario

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Consultants

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Structural Consultants
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3oo York Boulevard,
Hamilton, Ontario, L8R 3K6
Tel: 905-333-9119

Key Plan N.T.S.

Project North — True North

No.	Revisions	Date
3	REISSUED W/ ADDENDUM NO. 2	2024 05 30
2	ISSUED FOR BIDS	2024 05 13
1	ISSUED FOR PERMIT	2024 04 29

No.	Issue	Date

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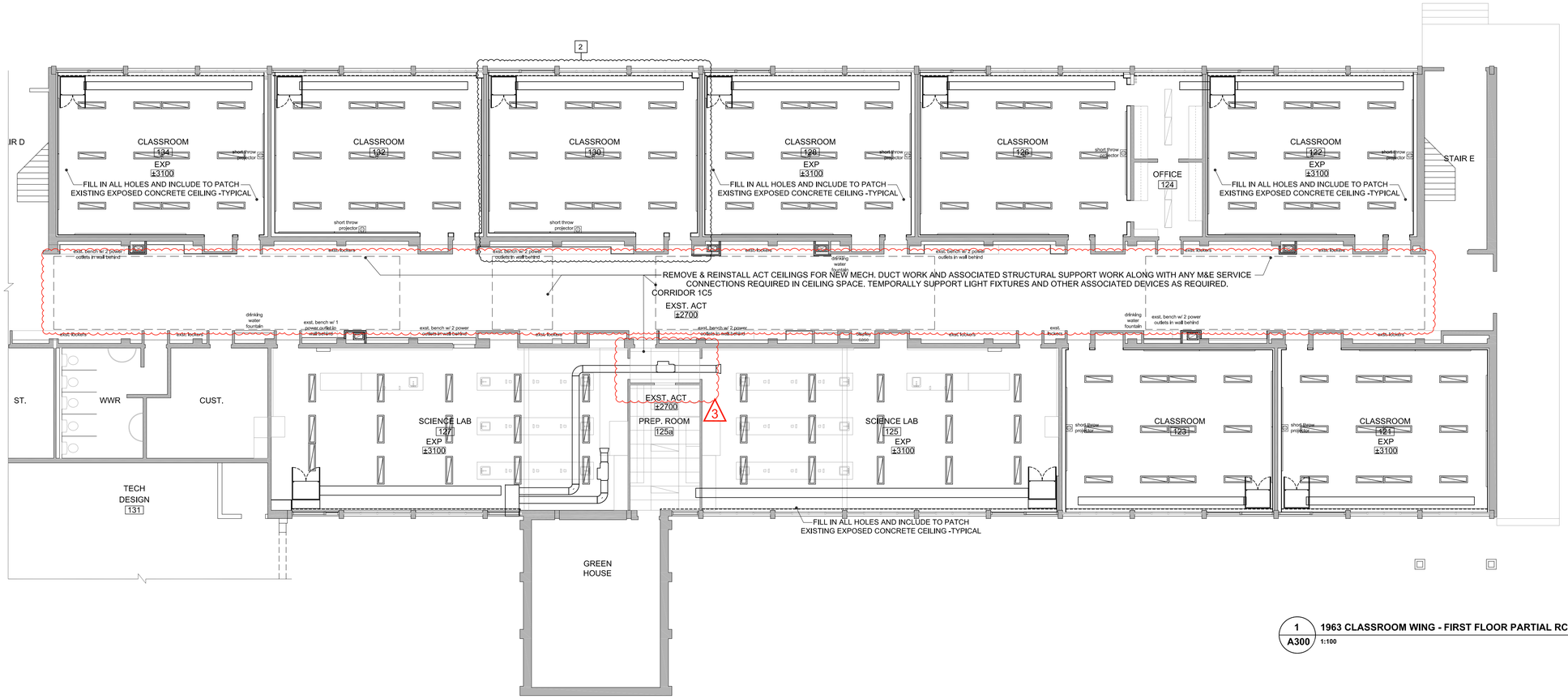
ONTARIO ASSOCIATION OF ARCHITECTS
AVINASH GARDE
LICENCE
5242

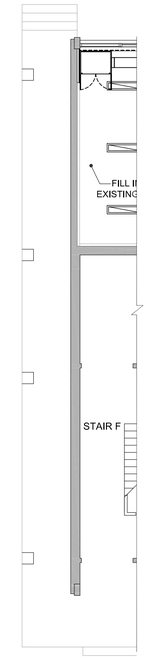
Drawing Title:

SECOND FLOOR PARTIAL RENOVATION PLAN

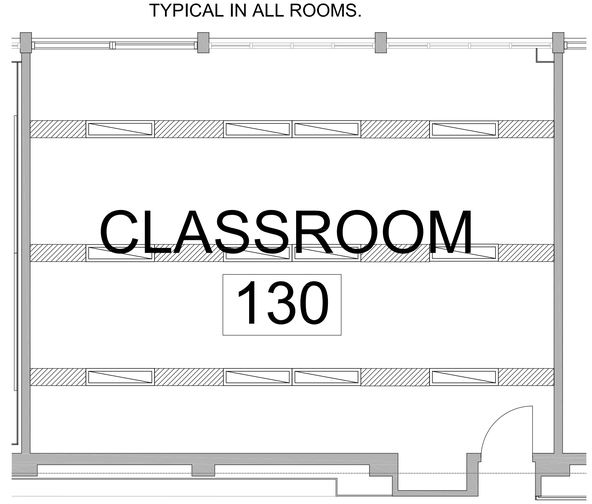
Scale:	1:100	Date:	12/04/2023
Drawn by:	MS	Checked by:	
Job No.	2323	Drawing No.	A 211



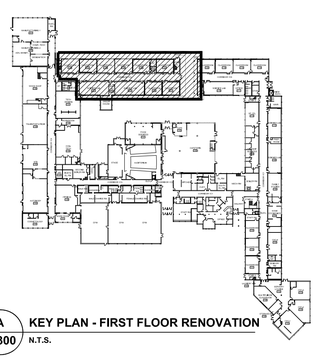
1 / A300 **1963 CLASSROOM WING - FIRST FLOOR PARTIAL RCP**
1:100



SHADED AREA INDICATES REMOVED LIGHT FIXTURE LOCATIONS.
SC01 TO MAKE GOOD CONCRETE CEILING.
TYPICAL IN ALL ROOMS.



2 / A300 **TYP. ENLARGED ROOM PLAN**
1:50



A / A300 **KEY PLAN - FIRST FLOOR RENOVATION**
N.T.S.

REFLECTED CEILING PLAN LEGEND

ACT- # #### AFF	ACOUSTIC CEILING TILE (ACT)
GB #### AFF	GYPSUM BOARD CEILING (GB-CLG)
EXP	EXPOSED CEILING

LIGHT FIXTURES:

MECH. FIXTURES:

CEILING NOTES:
1. INFORM ARCHITECT SITE CONDITIONS VARIED FROM DRAWING. CHECK FOR INTERFERENCE AND REVIEW CEILING HEIGHTS BEFORE INSTALLATION. INSTALL MECHANICAL UNITS, DUCTS & PIPING TIGHT TO UNDERSIDE OF SLAB. INSTALL CEILING AS HIGH AS POSSIBLE. IN AREAS WITH EXPOSED STRUCTURE, DUCTS / PIPES AND CONDUITS SHALL BE MOUNTED TIGHT TO U/S OF SLAB OR DECK, ROUTED PARALLEL AND PERPENDICULAR TO WALLS.
2. PRIME & PAINT ALL GYPSUM BOARD SURFACES.
3. PRIME & PAINT ALL EXPOSED STRUCTURE, DUCTS, PIPES & CONDUITS, UNO.
4. PROVIDE SHADOW MOLDING TYP. REFER TO TYPICAL DETAIL.
5. REFER TO TYPICAL DETAIL FOR DETAILS AT CEILING @ WINDOW MULLION.
6. PROVIDE METAL REVEAL TYP.FOR LOCATIONS OF DIFFUSERS,AIR GRILLES,SPEAKERS & EXIT LIGHTS, REFER TO MECHANICAL & ELEC. DWGS.
7. INSTALL FIRE & SAFETY DEVICES IN CORRIDOR CEILING AS PER M&E DRAWING.

Halton District School Board

2050 Guelph Line
Burlington, Ontario

NELSON HIGH SCHOOL RENOVATIONS

4181 NEW STREET
Burlington, Ontario

Architect

sn/der

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tel. 416.966.5444
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Consultants

Mechanical and Electrical Consultants
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Tel: 416-317-8804

Structural Consultants
Kalos Engineering Inc.
3oo York Boulevard,
Hamilton, Ontario, L8R 3K6
Tel: 905-333-9119

Key Plan N.T.S.

Project North — True North

No.	Revisions	Date
3	REISSUED W/ ADDENDUM NO, 2	2024 05 30
2	ISSUED FOR BIDS	2024 05 13
1	ISSUED FOR PERMIT	2024 04 29

No.	Issue	Date

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

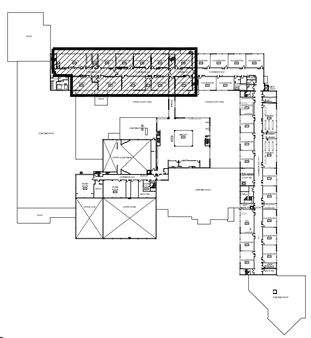
ONTARIO ASSOCIATION of ARCHITECTS
AVINASH GARDE
LICENCE
6242

Drawing Title:

FIRST FLOOR PARTIAL RCP

Scale:	1:100	Date:	02/22/2018
Drawn by:	MS	Checked by:	
Job No.	2323	Drawing No.	A 300

1 A300 **1963 CLASSROOM WING - FIRST FLOOR PARTIAL RCP**
1:100



A A303 **KEY PLAN - SECOND FLOOR RENOVATION**
N.T.S.

REFLECTED CEILING PLAN LEGEND

ACT- # #### AFF	ACOUSTIC CEILING TILE (ACT)
GB #### AFF	GYPSUM BOARD CEILING (GB-CLG)
EXP	EXPOSED CEILING

LIGHT FIXTURES:

MECH. FIXTURES:

CEILING NOTES:
1. INFORM ARCHITECT SITE CONDITIONS VARIED FROM DRAWING. CHECK FOR INTERFERENCE AND REVIEW CEILING HEIGHTS BEFORE INSTALLATION. INSTALL MECHANICAL UNITS, DUCTS & PIPING TIGHT TO UNDERSIDE OF SLAB. INSTALL CEILING AS HIGH AS POSSIBLE. IN AREAS WITH EXPOSED STRUCTURE, DUCTS / PIPES AND CONDUITS SHALL BE MOUNTED TIGHT TO U/S OF SLAB OR DECK, ROUTED PARALLEL AND PERPENDICULAR TO WALLS.
2. PRIME & PAINT ALL GYPSUM BOARD SURFACES.
3. PRIME & PAINT ALL EXPOSED STRUCTURE, DUCTS, PIPES & CONDUITS, UNO.
4. PROVIDE SHADOW MOLDING TYP. REFER TO TYPICAL DETAIL.
5. REFER TO TYPICAL DETAIL FOR DETAILS AT CEILING @ WINDOW MULLION.
6. PROVIDE METAL REVEAL TYP.FOR LOCATIONS OF DIFFUSERS,AIR GRILLES,SPEAKERS & EXIT LIGHTS, REFER TO MECHANICAL & ELEC. DWGS.
7. INSTALL FIRE & SAFETY DEVICES IN CORRIDOR CEILING AS PER M&E DRAWING.

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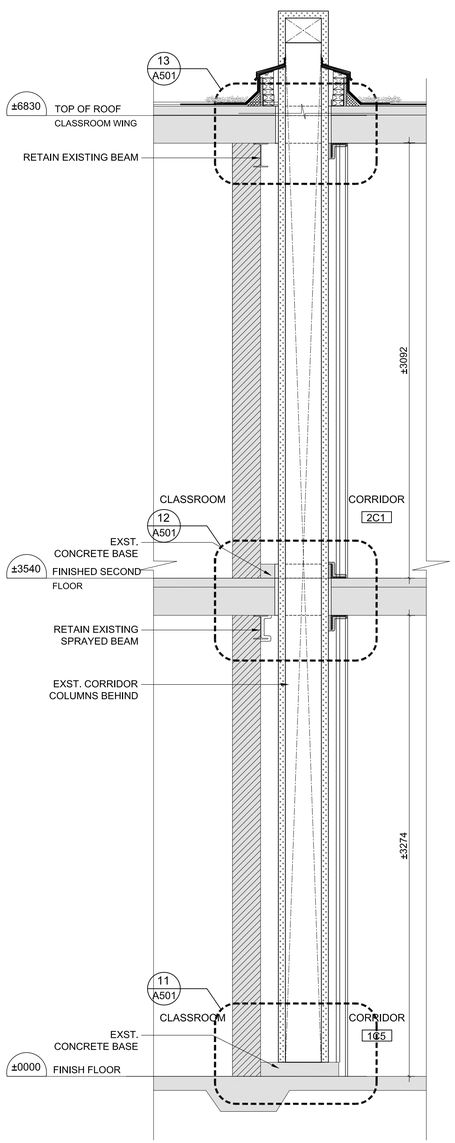
ONTARIO ASSOCIATION of ARCHITECTS
AVINASH GARDE
LICENCE
6242

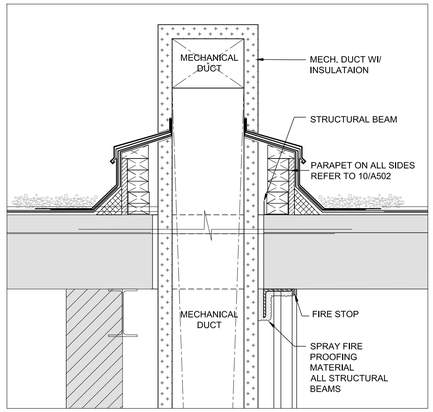
Drawing Title:

SECOND FLOOR PARTIAL RCP

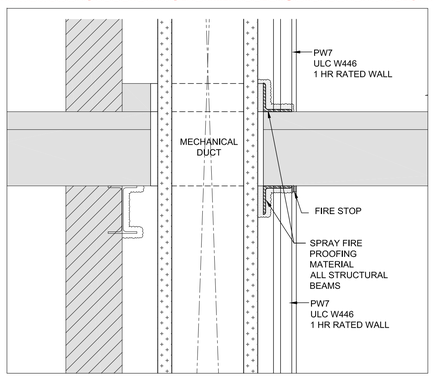
Scale:	1:100	Date:	02/22/2018
Drawn by:	MS	Checked by:	
Job No.	2323	Drawing No.	A 303



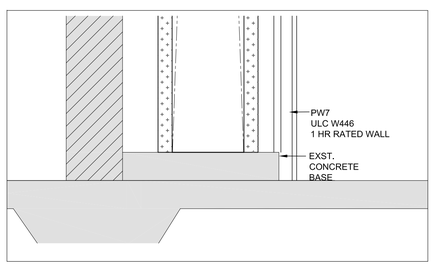
10 / A501 WALL SECTION AT 1963 WING CORRIDOR DUCT PENETRATION 1:20



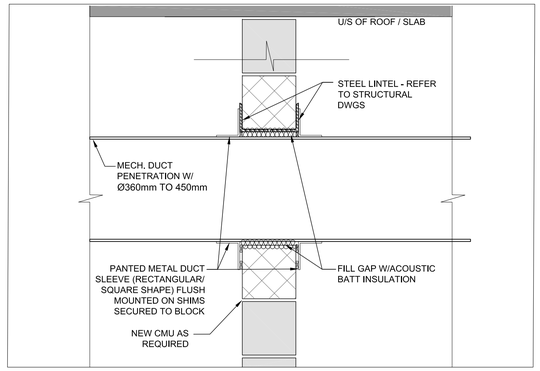
13 / A501 TYP. DUCT PENETRATION SECTION DETAIL @ CORRIDOR ROOF 1:5



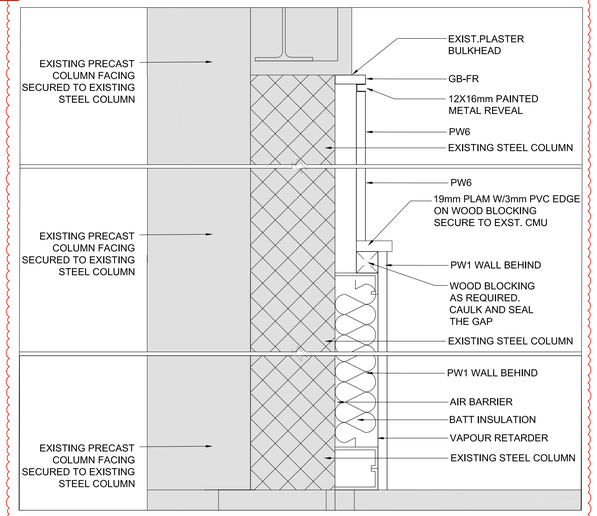
12 / A501 TYP. DUCT PENETRATION SECTION DETAIL @ CORRIDOR SLAB 1:5



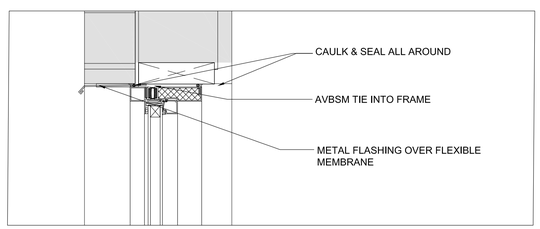
11 / A501 TYP. DUCT PENETRATION SECTION DETAIL @ CORRIDOR BASE 1:5



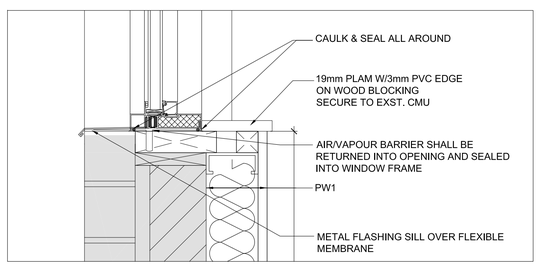
9 / A501 TYP. SECTION DETAIL @ DUCT PENETRATION 1:10



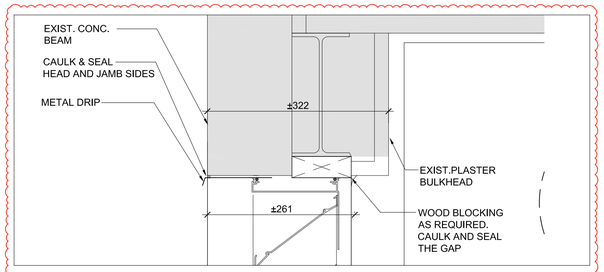
8 / A501 TYP. WINDOW COLUMN CLADDING SECTION DETAIL - IN 1963 CLASSROOM WING 1:5



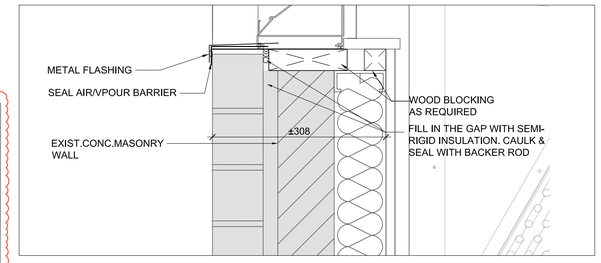
7 / A501 TYP. WINDOW LINTEL SECTION DETAIL 1:5



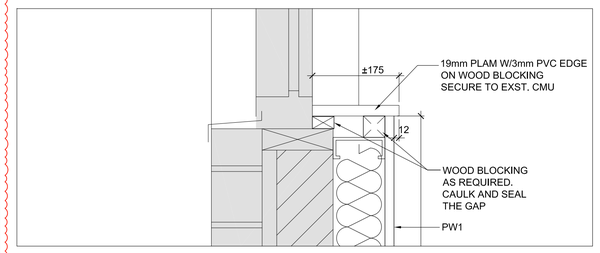
6 / A501 TYP. WINDOW SILL SECTION DETAIL 1:5



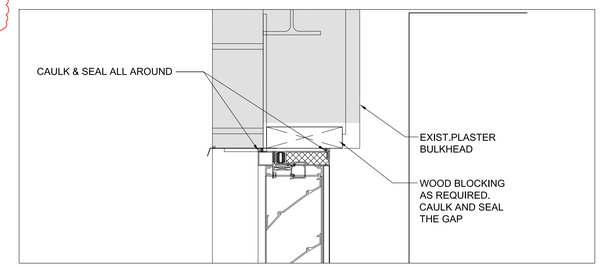
5 / A501 SECTION DETAIL 1:5



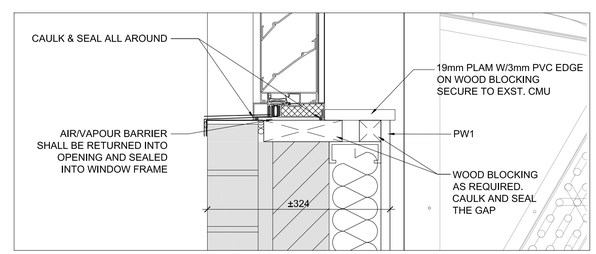
4 / A501 LOUVER SECTION DETAIL @ SILL 1:5



3 / A501 TYP. WINDOW SILL SECTION DETAIL @ EXISTING WINDOWS 1:5



2 / A501 TYP. WINDOW LOUVER LINTEL SECTION DETAIL 1:5



1 / A501 TYP. WINDOW LOUVER SILL SECTION DETAIL 1:5

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Key Plan N.T.S.

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ONTARIO ASSOCIATION OF ARCHITECTS
AVINASH GARDE
LICENCE
5242

Drawing Title:

SECTIONS AND TYP. SECTION DETAILS

Scale:	AS NOTED	Date:	12/04/2023
Drawn by:	MS	Checked by:	
Job No.	2323	Drawing No.	A 501

MECHANICAL ADDENDUM
M-02

RDZ ENG

Project Name:	HDSB Nelson High School Renovations	Date:	May 30, 2024
Project Address:	4181 New Street, Burlington, ON L7L 1T3		
Project No.:	23178		
Mechanical Addendum	M-02		

Include for the following additions, deletions, and/or clarifications in your bid amount. Indicate in the space provided on the bid form that you have received and included for the requirements of this addendum.

1. SPECIFICATIONS

1.1. SECTION 20 00 01 – LIST OF CONTENTS

.1 Add "Section 23 74 15 Screens for Roof Mounted Units" to List of Contents

1.2. SECTION 23 73 15 SCREENS FOR ROOF MOUNTED UNITS

.1 NEW Specification Section.

2. DRAWINGS

2.1. M-1.0: DRAWING LIST, SYMBOL LIST, NOTES - MECHANICAL

.1 Add new tags "FD" and "FSD" in symbol list as indicated.

2.2. M-3.1: PARTIAL GROUND FLOOR NEW WORK PLAN – HVAC

.1 Refer to detail 1, revise supply air duct routing in washroom adjacent Office 117 as indicated. Secure duct on side of wall.

2.3. M-3.3: PARTIAL GROUND FLOOR NEW WORK PLAN – HVAC

.1 Refer to detail 1, revise supply air duct routing in Home Economics Rm.104 as indicated.

2.4. M-3.4: PARTIAL SECOND FLOOR NEW WORK PLAN – HVAC

.1 Refer to detail 1, relocate exhaust air louvre in Health Rm. 233 as indicated.
.2 Refer to detail 1, shift intake air louvre and revise fresh air duct of unit ventilators in Rm. 231, 233, 236, and 240 as indicated.
.3 Refer to detail 1, revise condensate, heating water piping and refrigerant piping routing of unit ventilators in Rm. 231, 233, 236, and 240 as indicated.
.4 Refer to detail 1, provide fire smoke dampers for supply and return ducts penetrating floor assemblies in corridor 2C1 as indicated.
.5 Refer to detail 1, revise supply and return airflows in corridor 2C1 as indicated.

.6 Refer to detail 2, revise supply and return air drops and duct routing of RTU-2 (Music) in 2nd floor ceiling as indicated.
.7 Refer to detail 2, add storm piping from new roof drain above and revise storm pipe routing in Mech. Rm. 249 as indicated.
.8 Refer to detail 2, revise quantity, dimensions, and locations of supply and return silencers of RTU-2 as indicated.

2.5. M-3.5: PARTIAL SECOND FLOOR NEW WORK PLAN – HVAC

.1 Refer to detail 1, provide supply and return air ducts and grilles in corridor 2C1 as indicated.

2.6. M-3.8: PARTIAL ROOF NEW WORK PLAN – HVAC

.1 Refer to detail 1, revise locations of refrigerant risers, condensing units and routing of refrigerant lines on roof as indicated.
.2 Refer to detail 1, extend corridor supply and return air ducts on roof and provide new duct drops as indicated.
.3 Refer to detail 1, provide fire dampers in supply and return air duct drops penetrating the roof assemblies as indicated.

2.7. M-3.11: PARTIAL ROOF NEW WORK PLAN - HVAC

.1 Refer to detail 1, provide louvred screening system for RTU-1 and RTU-4 as indicated.
.2 Refer to detail 1, revise supply and return air duct connections of RTU-2 (Music) to side discharges and run ducts on roof as indicated. Provide roof duct support as required.
.3 Refer to detail 1, add one (1) new roof drain as indicated.
.4 Refer to detail 1, revise quantity, dimensions, and locations of supply and return silencers of RTU-2 as indicated.
.5 Refer to detail 1, shift new gas line as indicated.
.6 Refer to detail 1, provide fire dampers in supply and return air duct drops penetrating the roof assemblies as indicated.

2.8. M-5.0: EQUIPMENT SCHEDULES 1 – MECHANICAL

.1 Refer to Schedule of Silencers and revise as indicated.

2.9. M-5.1: EQUIPMENT SCHEDULES 2 – MECHANICAL

.1 Refer to Schedules of Grilles and Diffusers, 'Type A' spiral duct supply grilles to be extruded aluminum with face frame curved to match radius of duct.

2.10. M-5.2: EQUIPMENT SCHEDULES 3 - MECHANICAL

.1 Add "Architectural Screening Specification" as shown.

2.11. M-6.0: DETAILS 1 - MECHANICAL

.1 Revise Detail of Spiral Duct Supply Air Grille as indicated.

3. ATTACHMENTS

3.1. SPECIFICATION

.1 Section 23 74 15 Screens for Roof Mounted Units

3.2. DRAWINGS

.1 M-1.0: Drawing List, Symbol List, Notes - Mechanical
.2 M-3.1: Partial Ground Floor New Work Plan - HVAC
.3 M-3.3: Partial Ground Floor New Work Plan - HVAC
.4 M-3.4: Partial Second Floor New Work Plan – HVAC
.5 M-3.5: Partial Second Floor New Work Plan - HVAC
.6 M-3.8: Partial Roof New Work Plan - HVAC
.7 M-3.11: Partial Roof New Work Plan – HVAC
.8 M-5.0: Equipment Schedules 1 - Mechanical
.9 M-5.1: Equipment Schedules 2 - Mechanical
.10 M-5.2: Equipment Schedules 3 – Mechanical
.11 M-6.0: Details 1 - Mechanical

End of Mechanical Addendum M-02

1. GENERAL

1.01 SUBMITTALS

.1 Submit product data for all screening. Include following:

.1 installation details and hardware for site installation and connections;

.2 dimensioned layouts;

.3 data to confirm wind loading and seismic force Code approvals.

.2 Submit screen manufacturer’s standard chart of screen finish colours for colour selection by Consultant.

2. PRODUCTS

2.01 ARCHITECTURAL SCREENING

.1 Equal to Spinnaker Industries Inc. Louvred or Corrugated Sliding Panel style architectural screening shipped knocked-down as an assembly kit which, when assembled, is to mount directly to mechanical equipment with no on-site modifications or roofing work, designed and approved for Exposure "D" wind loading and seismic forces in accordance with Code requirements.

.2 Style of panel to be confirmed during the shop drawing stage.

.3 Each kit to include:

.1 minimum #18 gauge extruded aluminium track;

.2 minimum #16 gauge galvanized steel outriggers;

.3 minimum #22 gauge painted corrugated panels which will permit equipment service access when mounted;

.4 required mounting and connection hardware.

.4 Screening components factory finished with a baked powder polyester finish meeting ASTM B117 standards for 500 hour salt spray, ASTM D3363 standards for H-2H pencil hardness, and ASTM D3359 standards for adhesion, and colour in accordance with paint colour selected by Consultant.

3. EXECUTION

3.01 INSTALLATION OF ARCHITECTURAL SCREENING

.1 Provide architectural screening for mechanical equipment on roof.

.2 Submit to screening manufacturer a "Reviewed" or "Reviewed as Noted" shop drawing of each piece of equipment for which screening is required. Request paint finish colour chip from Consultant as soon as possible and forward to screening manufacturer.

.3 Assemble and install screening in accordance with manufacturer’s instructions.

END OF SECTION

MECHANICAL DRAWING LIST

DRAWING NO.	DRAWING NAME
M1.0	DRAWING LIST, SYMBOL LISTS, NOTES - MECHANICAL
M2.0	PARTIAL GROUND FLOOR DEMOLITION PLAN - HVAC
M2.1	PARTIAL GROUND FLOOR DEMOLITION PLAN - HVAC
M2.2	PARTIAL GROUND FLOOR DEMOLITION PLAN - HVAC
M2.3	PARTIAL GROUND FLOOR DEMOLITION PLAN - HVAC
M2.4	PARTIAL SECOND FLOOR DEMOLITION PLAN - HVAC
M2.5	PARTIAL SECOND FLOOR DEMOLITION PLAN - HVAC
M2.6	PARTIAL SECOND FLOOR DEMOLITION PLAN - HVAC
M2.7	PARTIAL SECOND FLOOR DEMOLITION PLAN - HVAC
M2.8	PARTIAL ROOF FLOOR DEMOLITION PLAN - HVAC
M3.0	PARTIAL GROUND FLOOR NEW WORK PLAN - HVAC
M3.1	PARTIAL GROUND FLOOR NEW WORK PLAN - HVAC
M3.2	PARTIAL GROUND FLOOR NEW WORK PLAN - HVAC
M3.3	PARTIAL GROUND FLOOR NEW WORK PLAN - HVAC
M3.4	PARTIAL SECOND FLOOR NEW WORK PLAN - HVAC
M3.5	PARTIAL SECOND FLOOR NEW WORK PLAN - HVAC
M3.6	PARTIAL SECOND FLOOR NEW WORK PLAN - HVAC
M3.7	PARTIAL SECOND FLOOR NEW WORK PLAN - HVAC
M3.8	PARTIAL ROOF NEW WORK PLAN - HVAC
M3.9	PARTIAL ROOF NEW WORK PLAN - HVAC
M3.10	PARTIAL ROOF NEW WORK PLAN - HVAC
M3.11	PARTIAL ROOF NEW WORK PLAN - HVAC
M3.12	PARTIAL ROOF NEW WORK PLAN - HVAC
M4.0	CONTROLS DIAGRAMS 1 - MECHANICAL
M4.1	CONTROLS DIAGRAMS 2 - MECHANICAL
M4.2	CONTROLS DIAGRAMS 3 - MECHANICAL
M4.3	CONTROLS DIAGRAMS 4 - MECHANICAL
M4.4	CONTROLS DIAGRAMS 5 - MECHANICAL
M5.0	EQUIPMENT SCHEDULES 1 - MECHANICAL
M5.1	EQUIPMENT SCHEDULES 2 - MECHANICAL
M5.2	EQUIPMENT SCHEDULES 3 - MECHANICAL
M6.0	DETAILS 1 - MECHANICAL
M6.1	DETAILS 2 - MECHANICAL
M6.2	DETAILS 3 - MECHANICAL

GENERAL NOTES

1. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID TO VERIFY EXISTING CONDITIONS AND TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS INDICATED ON THE DRAWINGS. CONTRACTOR TO INCLUDE FOR ALL COSTS ASSOCIATED TO FACILITATE INSTALLATION. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMMISSIONS, AND INTERFERENCES.
2. ENSURE THAT ALL NEW AND EXISTING EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW OR EXISTING SERVICES. PROVIDE ACCESS DOORS/PANELS TO MATCH BASE BUILDING STANDARDS WHERE REQUIRED.
3. PROVIDE ALL REQUIRED SCANNING, CORING/CUTTING AND PATCHING TO PERFORM THE SCOPE OF WORK AS OUTLINED IN THE DRAWINGS.
4. CONTRACTOR IS TO BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL PIPING, DUCTWORK AND EQUIPMENT, AS SHOWN ON THE DEMOLITION PLAN. CUT, CAP, AND ISOLATE HEATING WATER AND DUCT CONNECTIONS FOR NEW WORK AS INDICATED.
5. NOT ALL EXISTING PIPING AND OBSTRUCTIONS ARE SHOWN ON THE DRAWINGS. WHERE INTERFERENCES EXIST, CONTRACTOR SHALL REROUTE THE NEW WORK TO SUIT.
6. INSULATE ALL NEW PIPING, DUCTWORK AND ANY EXISTING PIPING AND DUCTWORK WHERE INSULATION HAS BEEN REMOVED OR DAMAGED BY THIS WORK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENT.
7. WHERE CONNECTING TO EXISTING SERVICES, CONTRACTOR TO MATCH ALL EXISTING PIPE/DUCT SIZES AND PROVIDE TRANSITIONS WHERE REQUIRED, UNLESS OTHERWISE NOTED.
8. NOT ALL EQUIPMENT CONNECTIONS ARE SHOWN. REFER TO EQUIPMENT MANUFACTURERS LITERATURE FOR ALL PIPING AND DUCTWORK CONNECTIONS.
9. NEW DIGITAL/ELECTRONIC CONTROLS TO BE COMPATIBLE WITH EXISTING BAS ON SITE.
10. CONTRACTOR TO FLUSH AND CLEAN ALL NEW WORK THOROUGHLY TO WHERE THE SYSTEMS CAN BE ISOLATED FOR THIS WORK AS PER THE SPECIFICATIONS PRIOR TO TIE IN TO THE EXISTING WORK/EQUIPMENT.
11. RENAME ALL EQUIPMENT TO SUIT NEW CONSTRUCTION AS INDICATED ON DOCUMENTS. THIS WORK SHALL INCLUDE PROVIDING OR REPLACING LAMACOIDS AT ALL EQUIPMENT AND ASSOCIATED CONTROL POINTS ON THE BAS.
12. ALL HEATING PIPING TO AND INCLUDING 50MMØ (2"Ø) SHALL BE SCREWED. PIPING 65MMØ (2.5"Ø) AND OVER SHALL BE WELDED. REFER TO SPECIFICATIONS FOR DETAILS.
13. CONTRACTOR TO REVIEW GROUNDING AND PIPING SUPPORTS FOR EXISTING GAS PIPING. PROVIDE NEW AS REQUIRED TO MEET CURRENT CODE REQUIREMENT.
14. APPLY FOR, OBTAIN, AND PAY FOR ALL PERMITS, FEES AND SERVICE CONNECTIONS FOR THE WORK AND THE INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION IN THE AREA WHERE THE WORK WILL TAKE PLACE, INCLUDING TSSA AND ESA.
15. CARRY BALANCING AGENT TO BALANCE THE AIR AND HYDRONIC SYSTEMS IN NEW WORK SCOPE. CONTRACTOR TO COORDIATE ALL WORK WITH THEM.
16. SUPPLY AND INSTALLATION OF ELECTRICAL CONDUITS FOR MECHANICAL EQUIPMENT SHALL BE BY ELECTRICAL DIVISION AND CONSISTENT WITH ELECTRICAL SPECIFICATIONS.
17. COORDINATE ALL TEMPORARY SHUT DOWNS WITH THE SCHOOL BOARD. PROVIDE ISOLATION VALVES AS REQUIRED.
18. SURVEY ALL AFFILIATED WORK AREAS AND REPORT ANOMALIES AND DISCREPANCIES TO CONSULTANT.
19. ALL DOMESTIC WATER PIPING, HEATING PIPING AND FITTINGS SHALL BE INSULATED. IN ADDITION, ALL EXPOSED PIPING AND FITTINGS SHALL BE PROVIDED WITH PVC INSULATING COVERS.

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
E	EXISTING TO REMAIN
D	DEMOLISH. REMOVE AND DISPOSE OF EQUIPMENT, DUCTWORK, SERVICES, ETC.
R	RELOCATE ITEM
	EXISTING TO REMAIN
	DEMOLISH OR RELOCATE
	NEW

CONTROLS

SYMBOL	DESCRIPTION
	FAN
AA	GRILLE (SUPPLY / RETURN / EXHAUST)
	FILTER BANK WITH DIFFERENTIAL PRESSURE SENSOR
HWS HEATING CWS COOLING	HEATING COIL (HOT WATER, GLYCOL, NAT. GAS) COOLING COIL (CHILLED WATER, GLYCOL, DX)
M MID DP	MOTORIZED DAMPER
	CONTROL VALVE (2-WAY & 3-WAY)
T-1 H-1 CO2-1 (T) (H) (CO2)	SENSORS (AIR OR WATER) (TEMPERATURE / HUMIDITY / CARBON DIOXIDE)
FLOW SWITCH (SX)	FLOW SWITCH (AIR OR WATER)
	CONTROL WIRING
(AI)	ANALOG INPUT
(AO)	ANALOG OUTPUT
(DI)	DIGITAL INPUT
(DO)	DIGITAL OUTPUT

TAGS

SYMBOL	DESCRIPTION
TAG-1	EQUIPMENT TAG
	AIRFLOW DIRECTION
CTE	CONNECT TO EXISTING
[###.#]	FLOW IN L/S
FD	FUSIBLE LINK FIRE DAMPER
FSD	COMBINATION FIRE SMOKE DAMPER

DIFFUSER TAG

QUANTITY — NECK / FACE SIZE

2 | A | 8"Ø | [200]

DIFFUSER TYPE — AIRFLOW

VAV BOX TAG

MIN AIRFLOW

VAV 8 [400] [600] — VAV 8 [400] [600] 5.0

TAG — MAX AIRFLOW — HEATING (kW)

DUCTWORK

TYPE: (S)UPPLY (R)ETURN (E)XAUSTION — HEIGHT

S - 14"x14" [1000]

WIDTH — AIRFLOW *IF APPLICABLE

DUCTWORK

SYMBOL	DESCRIPTION
	SUPPLY AIR DUCT UP & DOWN
	RETURN / EXHAUST AIR DUCT UP & DOWN
	ROUND DUCT UP & DOWN
	SQUARE ELBOW WITH TURNING VANES
	DUCTWORK FLEXIBLE CONNECTION
	1" THICK ACOUSTICALLY LINED DUCTWORK
	EXTERNALLY INSULATED DUCTWORK (REFER TO SPECIFICATIONS FOR THICKNESS)
	DUCT CONTINUATION (ROUND & RECTANGULAR)
	SUPPLY AIR DIFFUSER C/W FLEX DUCT & SPIN ON CONNECTION WITH BALANCING DAMPER
	SUPPLY / RETURN GRILLE
	RETURN / EXHAUST GRILLE
T	THERMOSTAT
T	TEMPERATURE SENSOR
CO_2	CARBON DIOXIDE (CO_2) SENSOR
S	SWITCH
OS	OCCUPANCY SENSOR
	CONTROL WIRING
	VAV BOX

MECHANICAL PIPING

SYMBOL	DESCRIPTION
	PIPE DOWN
	PIPE UP
	PIPE UP & DOWN
	VALVE
	BALANCING VALVE
	CHECK VALVE
	STRAINER
	LOCK-SHEILD VALVE
	PRESSURE REDUCING VALVE
	ELECTRONIC CONTROL VALVE (2-WAY & 3-WAY)
	PIPE CONTINUATION
CD	CONDENSATE DRAINAGE PIPING
G	NATURAL GAS PIPING
	FLOW DIRECTION
RL / RG	REFRIGERANT LIQUID AND GAS PIPING
	PUMP
CAP	CAPPED PIPE
	PRESSURE GAUGE
	THERMOMETER
	PRESSURE RELIEF VALVE

PLUMBING AND DRAINAGE

SYMBOL	DESCRIPTION
	P-TRAP
CO CO	CLEAN OUT (FLOOR & CEILING)
FD	ROUND FLOOR DRAIN
FD	SQUARE FLOOR DRAIN
HD	HUB DRAIN
	PIPE WYE CONNECTION
	PIPE 45° CONNECTION
	PIPE ELBOW
	PIPE TEE
-	DOMESTIC COLD WATER (DCW) PIPING
--	DOMESTIC HOT WATER (DHW) PIPING
SAN	SANITARY DRAINAGE (SAN) PIPING
	VENT PIPING
---	DOMESTIC HOT WATER RECIRC. (DHWR) PIPING

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Key Plan:

Key Plan N.T.S.

N — Project North

N — True North

No.	Revisions	Date
3	ISSUED FOR ADD M-02	05/30/2024
2.	ISSUED FOR BID	05/13/2024
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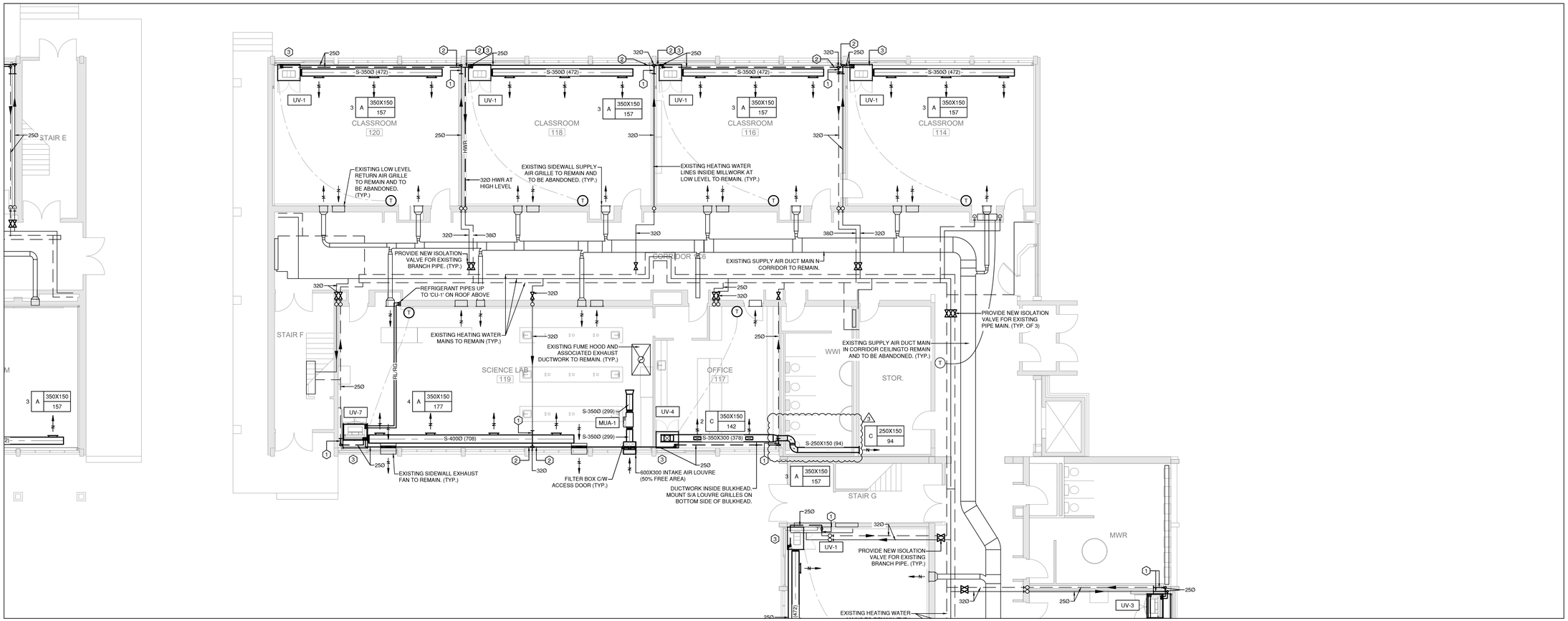
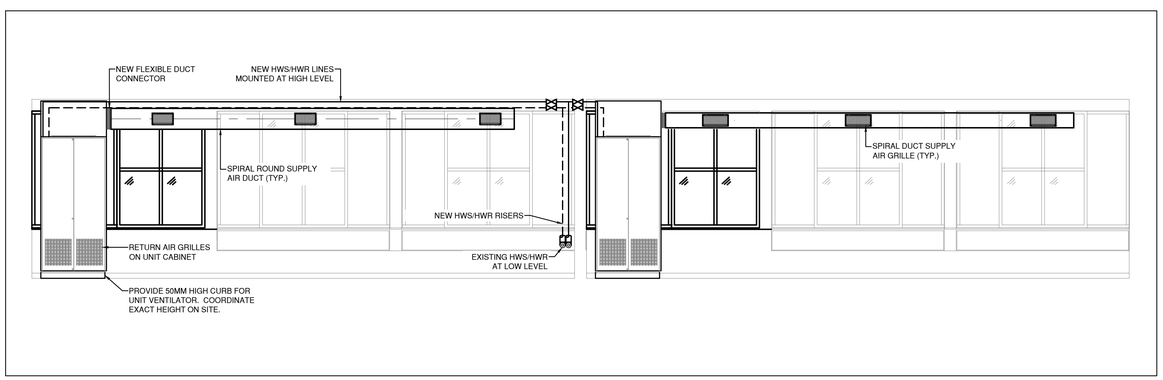
Drawing Title:
DRAWING LIST, SYMBOL LIST, NOTES MECHANICAL

Scale:	N.T.S.	Date:	10/05/2024
Drawn by:	SL	Checked by:	VK
Job No.	2323	Drawing No.	M1.0



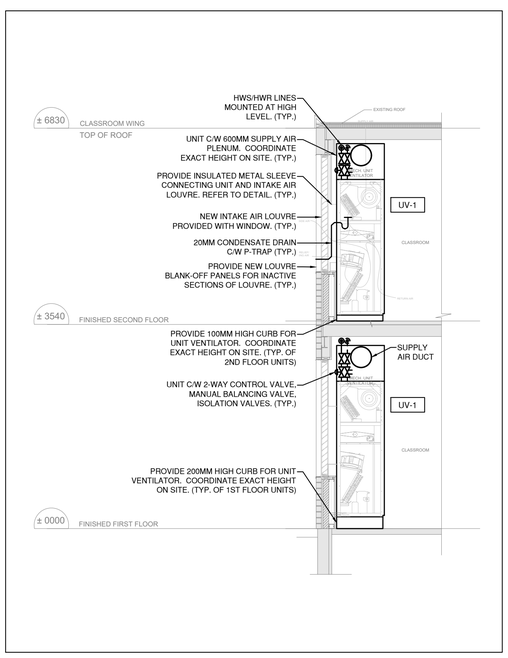
1 / M3.1 PARTIAL GROUND FLOOR PLAN

Scale: 1:100



2 / M3.1 TYPICAL UNIT VENTILATOR ELEVATION DETAIL

1:50



3 / M3.1 TYPICAL UNIT VENTILATOR SECTION DETAIL

Scale: 1:50

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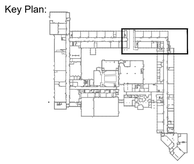

Key Plan N.T.S.

Project North — True North

No.	Revisions	Date
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Drawing Title:
PARTIAL GROUND FLOOR NEW WORK PLAN - HVAC

Scale:	1:100	Date:	10/05/2024
Drawn by:	SL	Checked by:	VK
Job No.	2323	Drawing No.	M3.1

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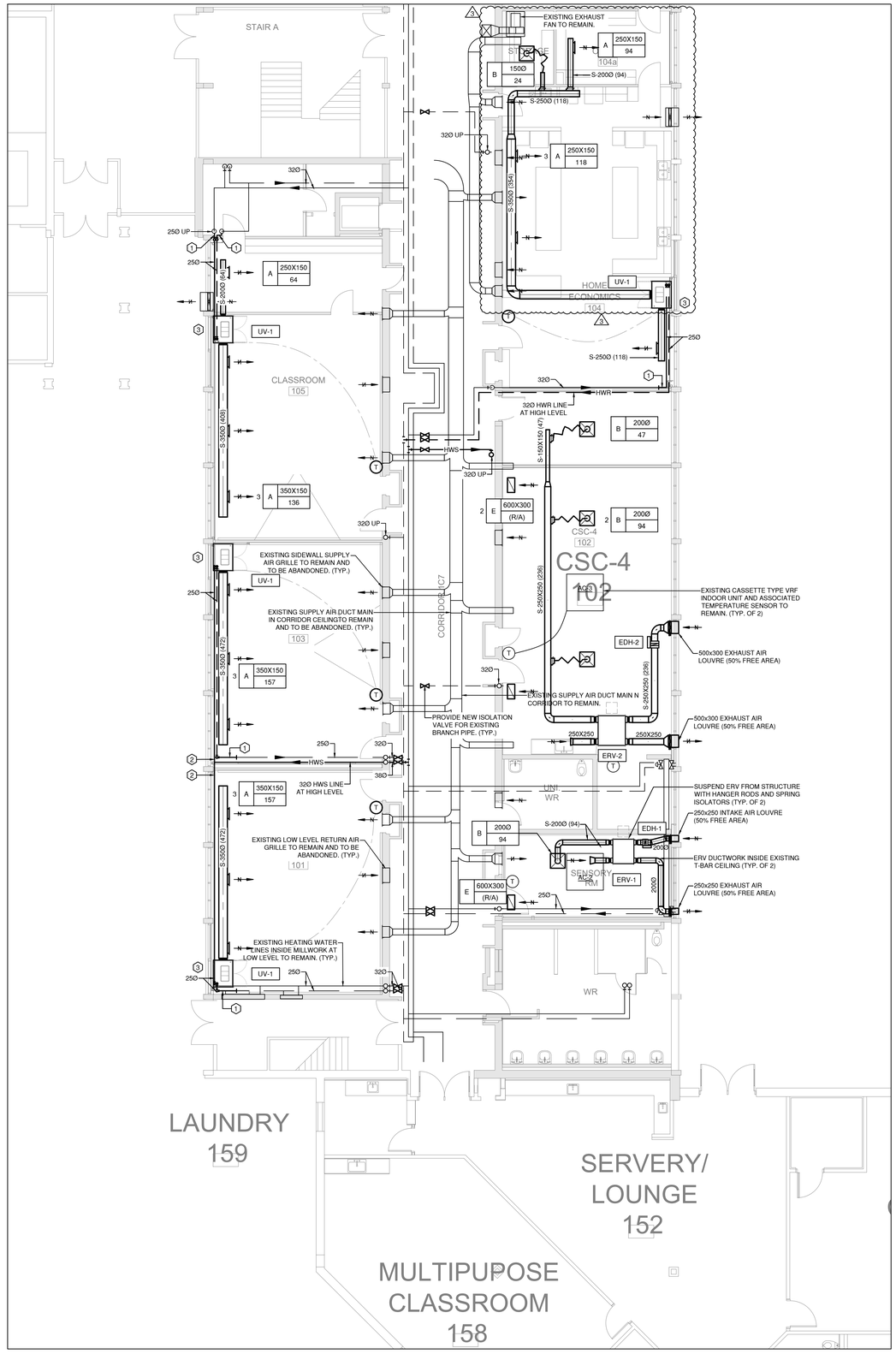

1 / M3.3 PARTIAL GROUND FLOOR PLAN
Scale: 1:100

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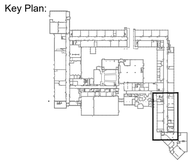

Key Plan N.T.S.

Project North — True North

No.	Revisions	Date
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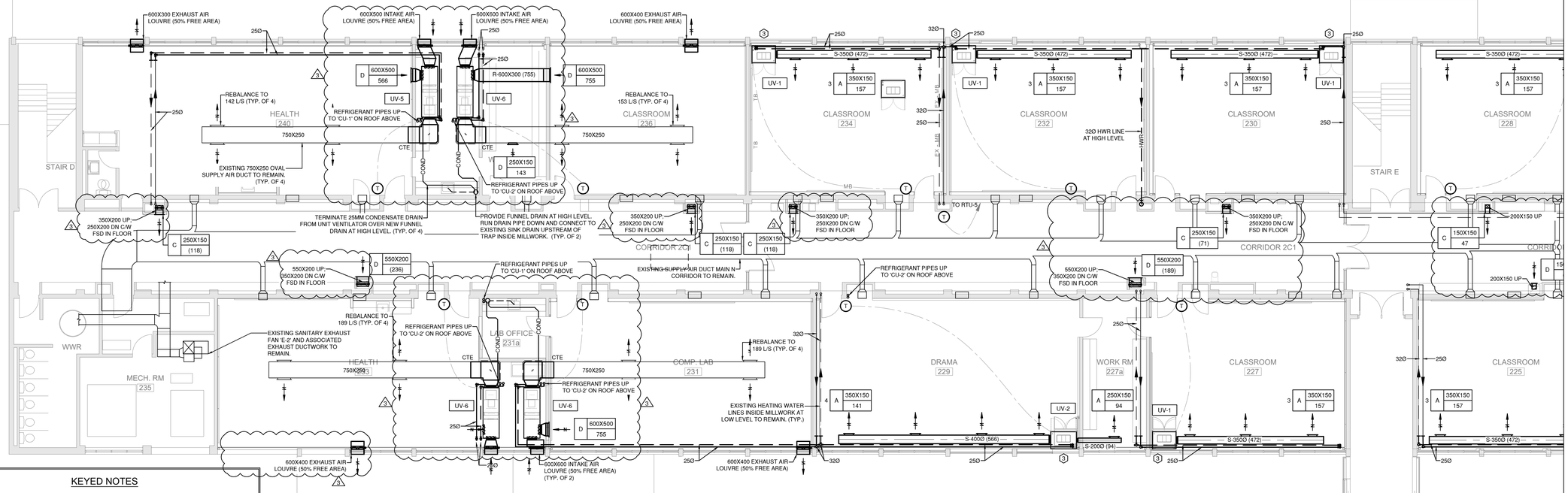
Scale:	1:100	Date:	10/05/2024
Drawn by:	SL	Checked by:	VK
Job No.	2323	Drawing No.	M3.3



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1 M3.4 PARTIAL SECOND FLOOR PLAN
Scale: 1:100

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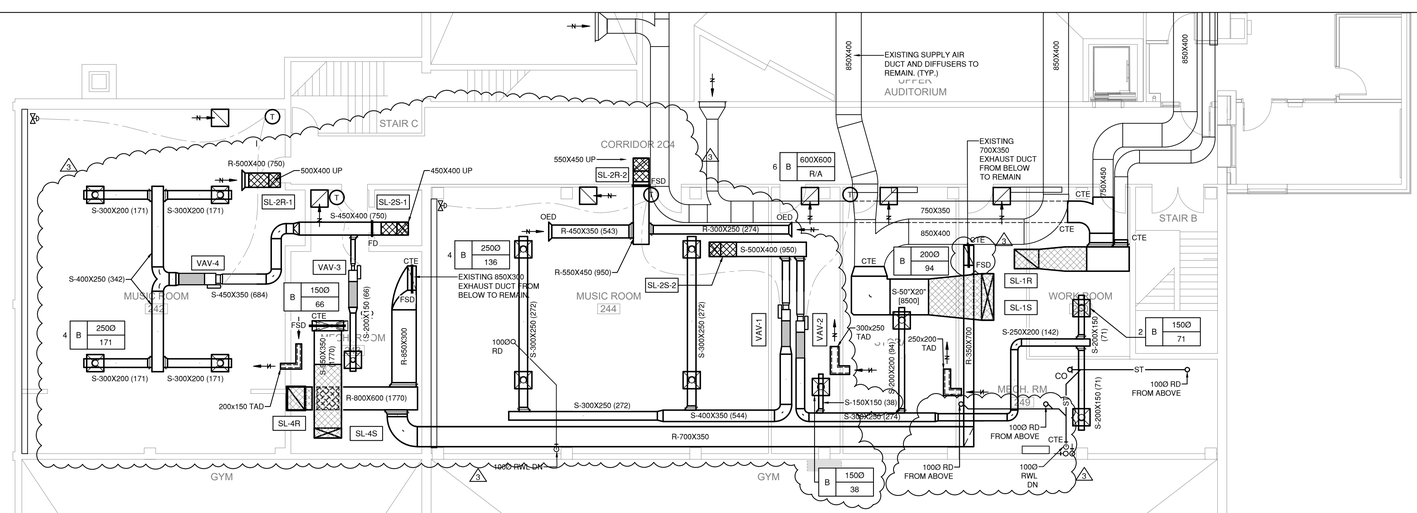

2 M3.4 PARTIAL SECOND FLOOR PLAN
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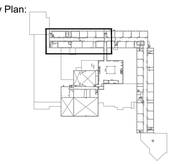

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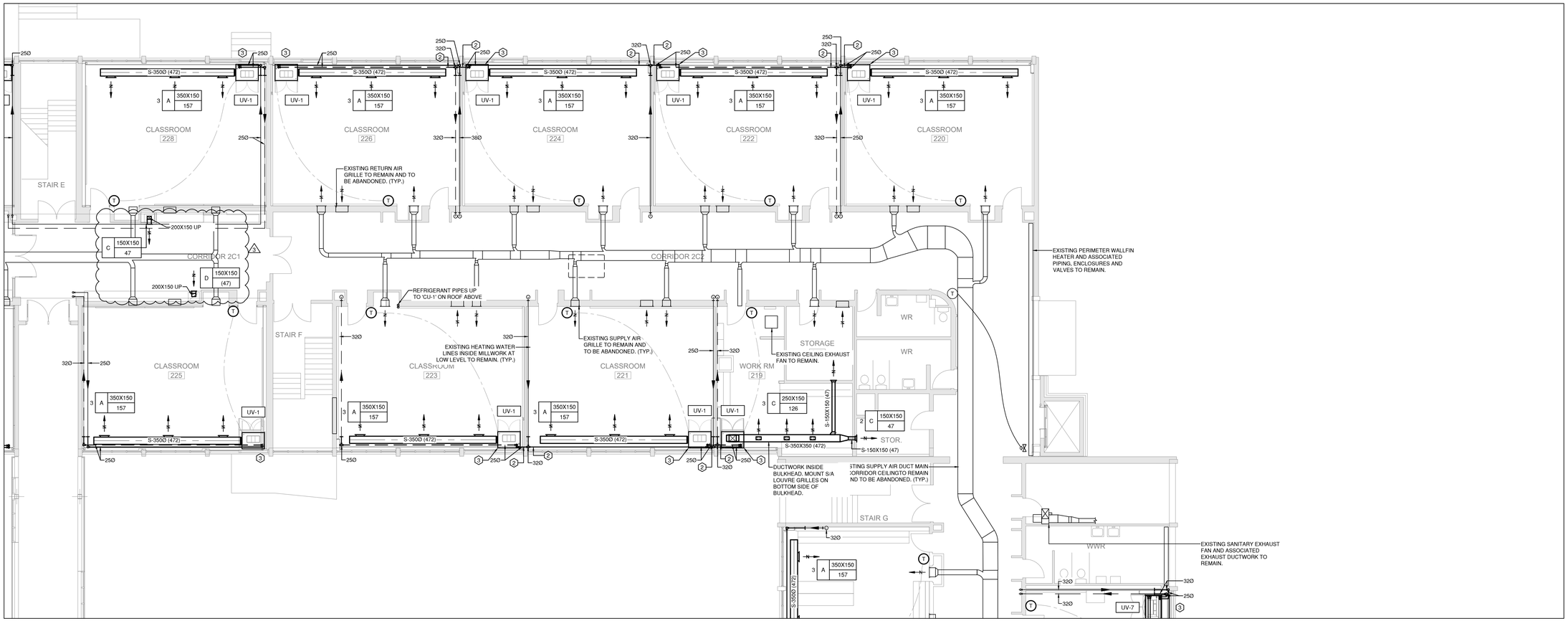
Drawn by:	SL	Checked by:	VK
Job No.	2323	Drawing No.	M3.4



1 / M3.5 PARTIAL SECOND FLOOR PLAN

Scale: 1:100

NEW WORK GENERAL NOTES

1. CORRIDORS IN 1956 AND 1958 ADDITIONS TO REMAIN AS IS.
2. PROVIDE INSULATION FOR HORIZONTAL UNIT VENTILATORS' FRESH AIR DUCT FOR AT LEAST 3000MM (10') FROM THE EXTERIOR WALL.
3. ALL UNIT VENTILATOR SUPPLY AIR PLENUM, DUCT SLEEVE, AND SUPPLY AIR DUCTWORK TO BE PAINTED WHITE BY PAINTING CONTRACTOR/GC. MECHANICAL CONTRACTOR TO PROVIDE THE ABOVE TO PAINTING CONTRACTOR TO PRIME AND 1ST PAINT COAT PRIOR TO INSTALLATION. COMPLETE INSTALLATION ONCE PAINTING IS COMPLETED.
4. MECHANICAL CONTRACTOR RESPONSIBLE FOR REFRIGERANT LINE SIZING AND EQUIVALENT LENGTH TO MEET THE PERFORMANCE OF EQUIPMENT AND TSSA REQUIREMENT. INCLUDE ALL ACCESSORIES REQUIRED TO MEET THE MANUFACTURER'S RECOMMENDATION AND SPECIFIED PERFORMANCE.
5. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL MECHANICAL WIRING FROM INDOOR UNITS TO ASSOCIATED CONDENSING UNIT. ALL WIRING SHALL BE INSTALLED IN EMT CONDUIT. REFER TO CONDENSING UNIT SHOP DRAWINGS FOR FIELD WIRING DIAGRAM.
6. TERMINATE 20MM CONDENSATE DRAIN C/W P-TRAP OF VERTICAL UNIT VENTILATOR THROUGH UNIT'S FRESH AIR LOUVRE. (TYP.)
7. CONDENSATE DRAIN TO BE METALLIC UNTIL TERMINATION. PLASTIC TUBING WILL NOT BE ACCEPTED.
8. UNIT C/W SUPPLY AIR PLENUM ABOVE VERTICAL UNIT VENTILATOR. PROVIDE FLEXIBLE DUCT CONNECTORS. CONTRACTOR TO COORDINATE EXACT HEIGHT OF PLENUM TO SUIT EXISTING SITE CONDITIONS.
9. PROVIDE METAL SLEEVE CONNECTING UNIT VENTILATOR AND ITS ASSOCIATED INTAKE ARE LOUVRE. CONTRACTOR TO COORDINATE SIZE OF SLEEVE TO SUIT EXISTING SITE CONDITIONS.
10. PROVIDE LOUVRE BLANK-OFF PANELS AS REQUIRED FOR SECTIONS OF INTAKE AIR LOUVRE NOT USED BY THE UNIT VENTILATORS.
11. PROVIDE BASE CURB UNDER UNIT VENTILATORS TO ALIGN THE INTAKE AIR OPENING OF THE UNIT WITH LOUVRE OPENING. CONTRACTOR TO COORDINATE HEIGHT OF CURB TO SUIT EXISTING SITE CONDITIONS.

KEYED NOTES

1. PROVIDE ISOLATION VALVE C/W DRAIN PORT TO FACILITATE PHASE OF NEW WORK.
2. PROVIDE ISOLATION VALVE ON BRANCH PIPE TO FACILITATE PHASING OF NEW WORK.
3. VERTICAL UNIT VENTILATOR ACTIVE MECHANICAL LOUVRE AREA:
   UV-1 1025MM x 950MM
   UV-2 1125MM x 1150MM
   UV-3 927MM x 420MM
   UV-4 1025MM x 950MM
   UV-7 597MM x 660MM
   UV-8 927MM x 420MM

   PROVIDE BLANK OFF PANEL FOR INACTIVE LOUVRE AREA.

Halton District School Board

2050 Guelph Line
Burlington, Ontario

NELSON HIGH SCHOOL RENOVATIONS

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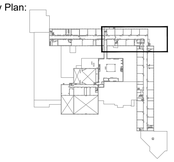
Key Plan:



Key Plan N.T.S.

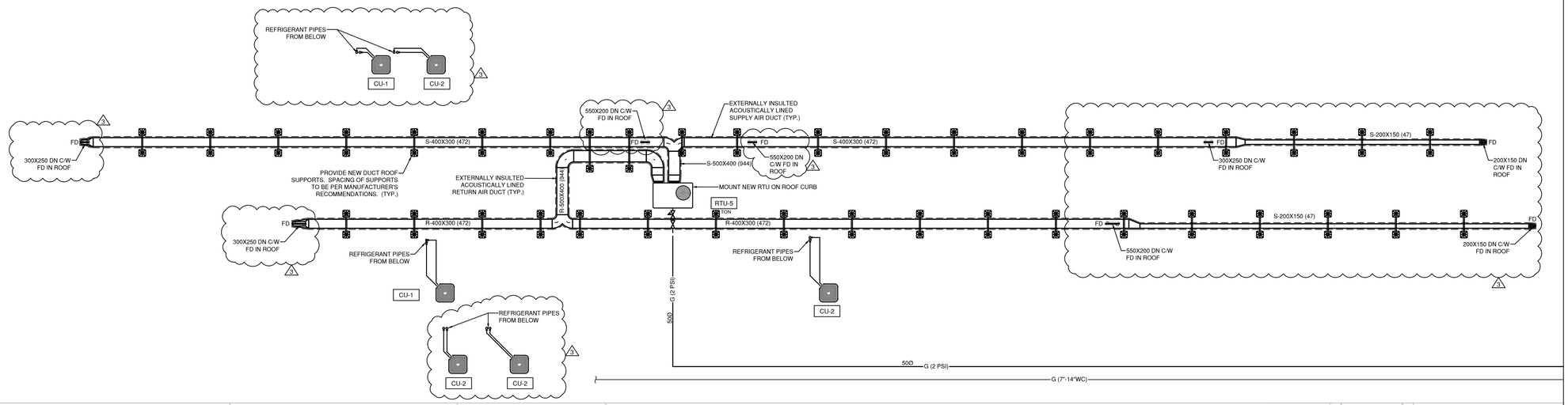
Project North — True North

No.	Revisions	Date
3	ISSUED FOR ADD M-02	05/30/2024
2.	ISSUED FOR BID	05/13/2024
1.	ISSUED FOR PERMIT	04/29/2024
No.	Issue	Date

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Drawing Title:
PARTIAL SECOND FLOOR NEW WORK PLAN - HVAC

Scale:	1:100	Date:	10/05/2024
Drawn by:	SL	Checked by:	VK
Job No.	2323	Drawing No.	M3.5



1
M3.8
PARTIAL ROOF PLAN
Scale: 1:100

NEW WORK NOTES

1. ANY ROOF RELATED WORK IS TO BE EXECUTED BY HDSB APPROVED VENDORS AND COMPATIBLE ROOFING MATERIAL ARE TO BE USED. CONTRACTOR IS RESPONSIBLE TO NOTIFY AND COORDINATE WORK ON ROOF WITH ALL PARTIES PRIOR TO CONSTRUCTION.
2. PATCH, SEAL, AND MAKE GOOD OF ALL ROOF OPENINGS. ALL ROOFING WORK TO BE PROVIDED BY HDSB'S PRE-QUALIFIED ROOFING CONTRACTORS.
3. PAINT FULL CIRCUMFERENCE OF GAS PIPE YELLOW AS PER CSA B149.1. LABEL GAS PIPING COMPLETE WITH GAS PRESSURE ON WEATHERPROOF LABELS AS PER CSA B149.1.

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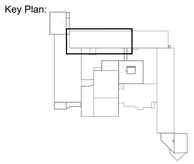

Key Plan N.T.S.

N — Project North
N — True North

No.	Revisions	Date
3	ISSUED FOR ADD M-02	05/30/2024
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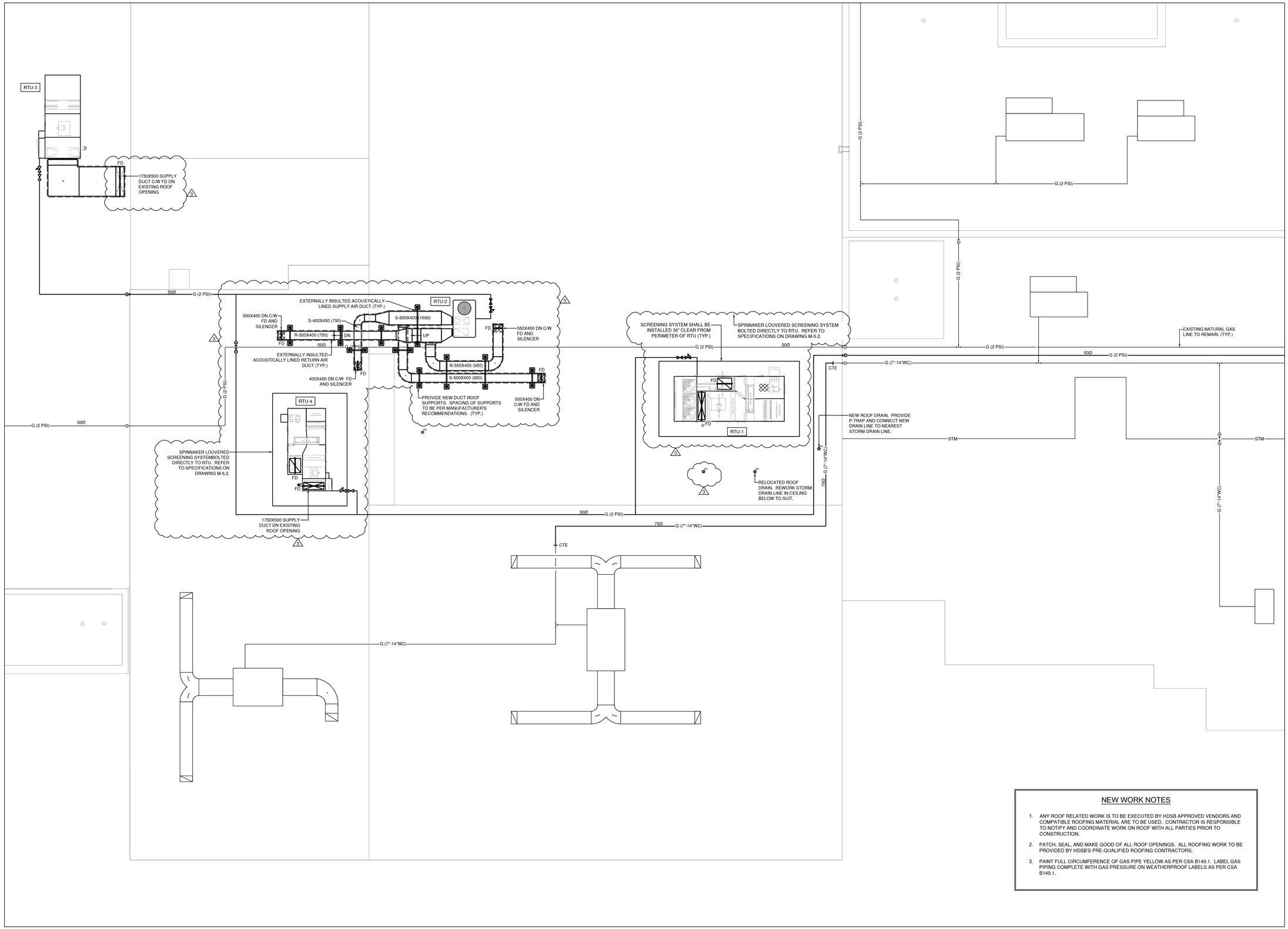
PARTIAL ROOF NEW WORK PLAN - HVAC

Scale:	1:100	Date:	10/05/2024
Drawn by:	SL	Checked by:	VK
Job No.	2323	Drawing No.	M3.8



1 M3.11 PARTIAL ROOF PLAN
Scale: 1:100

NEW WORK NOTES

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2. PATCH, SEAL, AND MAKE GOOD OF ALL ROOF OPENINGS. ALL ROOFING WORK TO BE PROVIDED BY HDSB'S PRE-QUALIFIED ROOFING CONTRACTORS.
3. PAINT FULL CIRCUMFERENCE OF GAS PIPE YELLOW AS PER CSA B149.1. LABEL GAS PIPING COMPLETE WITH GAS PRESSURE ON WEATHERPROOF LABELS AS PER CSA B149.1.

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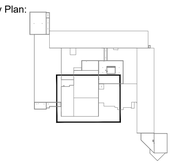
Key Plan:



Key Plan N.T.S.

Project North — True North

No.	Revisions	Date
3	ISSUED FOR ADD M-02	05/30/2024
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PARTIAL ROOF NEW WORK PLAN - HVAC

Scale:	1:100	Date:	10/05/2024
Drawn by:	SL	Checked by:	VK
Job No.	2323	Drawing No.	M3.11

SCHEDULE OF AIR HANDLING UNITS

TAG	MANUFACTURER	MODEL	LOCATION	AREA SERVED	WEIGHT	DIMENSIONS			CURB HEIGHT	DESIGN AIRFLOW	OUTDOOR AIR		AIR FILTRATION		DX COOLING										HEATING								ENERGY RECOVERY PERFORMANCE (WINTER)					
															EVAPORATOR						OAT (°C)	APD	CONDENSATE DRAIN SIZE	NO. COOLING STAGES	FUEL		TURNDOWN	INPUT	OUTPUT	EAT (°C)	LAT (°C)	OAT (°C)	AIRFLOW	AIR TEMP.		APD	ENERGY RECOVERY	EFF
						WIDTH	LENGTH	HEIGHT					PRE-FILTER	FINAL FILTER	CAPACITY (KW)		EAT (°C)		LAT (°C)						TYPE	PRESSURE								EAT	LAT			
					(KG)	(MM)	(MM)	(MM)	(MM)	(L/S)	(L/S)	%			TOTAL	SENSIBLE	DB	WB	DB	WB	DB	(PA)	(MM)			(IN. WC)		(KW)	(KW)	DB	DB	DB	(L/S)	DB/WB (°C)	DB/WB (°C)	(Pa)	(kW)	(%)
RTU-1	ENGINEERED AIR	FWE184/DJX60/HRW1200 /O/MV	ROOF	AUDITORIUM	4,990	3,480	6,655	1,981	400	4,010	1,604	40	50MM PLEATED MERV8	100MM PLEATED MERV13	71.1	60.2	24.8	17.4	12.4	12.0	35.0	182.6	-	4	NAT. GAS	7" - 14" W.C.	15:1	161.2	146.8	4.7	35.0	-20.0	1,604	-20.0 / -20.0	6.3 / 2.6	209	62.6	74.3
RTU-2	TRANE	YHJ102AWSBL**D4D0A1 A1	ROOF	MUSIC ROOMS	522	1,353	2,237	1,292	400	1,698	510	30	50MM PLEATED MERV13	-	32.7	25.5	26.7	19.4	14.3	13.9	35.0	-	20	2	NAT. GAS	7" - 14" W.C.	10:1	35.2	28.5	10.0	23.6	-20.0	NO ENERGY RECOVERY					
RTU-3	ENGINEERED AIR	DJX140/O/MV	ROOF	SHOPS	2,041	2,515	4,877	1,880	400	5,189	5,189	100	50MM PLEATED MERV8	100MM PLEATED MERV13	NO COOLING										NAT. GAS	7" - 14" W.C.	15:1	322.4	293.4	-20.0	26.7	-20.0	NO ENERGY RECOVERY					
RTU-4	ENGINEERED AIR	DJX60/HRW1500/O/MV	ROOF	CHANGE ROOMS	3,289	2,286	4,978	1,829	400	1,769	1,769	100	50MM PLEATED MERV8	100MM PLEATED MERV13	NO COOLING										NAT. GAS	7" - 14" W.C.	15:1	131.9	120.2	-20.0	36.1	-20.0	1,769	-20.0 / -20.0	6.2 / 2.5	145	70.2	78.3
RTU-5	TRANE	YSC060GWRHB**D000A1	ROOF	1963 ADDITION CORRIDOR	362	1,124	1,775	1,038	350	943	189	20	50MM PLEATED MERV13	-	17.6	14.6	26.7	19.4	15.3	14.6	35.0	-	20	1	NAT. GAS	7" - 14" W.C.	2-STAGE HEATING	43.9	35.6	21.1	52.4	-20.0	NO ENERGY RECOVERY					

NOTES

1. EACH UNIT SHALL BE COMPLETE WITH A SINGLE POINT POWER CONNECTION
2. EACH FAN SHALL BE COMPLETE WITH INTERNAL VIBRATION ISOLATION SPRINGS AND FLEXIBLE CONNECTIONS.
3. FAN MOTORS FOR UNITS IDENTIFIED WITH "VFD" SHALL BE PREMIUM EFFICIENCY INVERTER DUTY RATED.
4. EACH UNIT SHALL BE IN COMPLIANCE WITH ASHRAE STANDARD 90.1 EFFICIENCY REQUIREMENTS.
5. EACH UNIT SHALL BE TERMINAL STRIP ONLY.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

TAG	ENERGY RECOVERY PERFORMANCE (SUMMER)						SUPPLY FAN							RETURN/EXHAUST FAN							ELECTRICAL			EMERGENCY POWER	REMARKS
	AIRFLOW	AIR TEMP.		APD	ENERGY RECOVERY	EFF	AIRFLOW	ESP	TSP	FAN RPM	BHP	MOTOR HP	VFD	AIRFLOW	ESP	TSP	FAN RPM	BHP	MOTOR HP	VFD	MCA	MOCP	POWER (V/PH/HZ)		
		EAT	LAT																						
	(L/S)	DB/WB (°C)	DB/WB (°C)	(Pa)	(kW)	(%)	(L/S)	(PA)	(PA)					(L/S)	(PA)	(PA)									
RTU-1	1,604	32.2 / 22.8	26.1 / 18.6	239	28.2	74.3	4,010	311	1,146	1,867	8.1	10.0	YES	4,010	249	673	965	6.93	10.0	YES	57.0	60.0	575/3/60	NO	
RTU-2	NO ENERGY RECOVERY						1,698	299	384	1,473	2.12	3.0	YES	NO RETURN FAN							19.0	25.0	575/3/60	NO	
RTU-3	NO ENERGY RECOVERY						5,189	311	623	694	7.24	15.0	YES	NO RETURN FAN							27.0	40.0	575/3/60	NO	
RTU-5	1,769	32.2 / 22.8	25.7 / 18.3	164.4	32.9	78.3	1,769	299	1,071	3,107	4.66	5.0	YES	2,394	249	697	1,384	4.57	5.0	YES	21.0	25.0	575/3/60	NO	
RTU-5	NO ENERGY RECOVERY						943	124	169	1,039	0.81	1.0		NO RETURN FAN							10.0	15.0	575/3/60	NO	

SCHEDULE OF SILENCERS

TAG	MANUFACTURER	SYSTEM	TYPE (NOTE 1)	DIMENSIONS			AIRFLOW	VELOCITY (NOTE 3)	PD (NOTE 4)	MAX. PD W/ SYSTEM EFFECT (NOTE 5)	MINIMUM DYNAMIC INSERTION LOSS, dB (NOTE 5)								BASIS OF DESIGN MODEL NUMBER	REMARKS
											OCTAVE BAND CENTER FREQUENCY, HZ									
				DUCT WIDTH	DUCT HEIGHT	DUCT LENGTH (NOTE 2)					63	125	250	500	1000	2000	4000	8000		
				MM	MM	MM	L/S	M/S	PA	PA										
SL-1S	VIBRO-ACOUSTICS OR APPROVED EQUAL	RTU-1	REMB	TRANSITIONAL SILENCER, INLET 425X1625, OUTLET DUCT CONNECTION 500"X1250", CASING DIMENSION 800"X1250"			4012	+5.63	37.3	87.1	14	22	23	31	39	33	26	23	TREMB-UHV-AY31406	2, 7a, 8, 9
SL-1R	VIBRO-ACOUSTICS OR APPROVED EQUAL	RTU-1	REMB 3	TRANSITION SILENCER, INLET 750X850, OUTLET 675X850		2100	4012	-6.10	37.3	79.6	9	12	17	29	29	29	22	19	REMB-HV-AY31406	2, 7b, 8, 9 3
SL-2S1	VIBRO-ACOUSTICS OR APPROVED EQUAL	RTU-2	REMB	450	400	1500	750	+4.00	15.0	42.0	8	10	11	22	22	24	21	17	REMB-HV-AY31406	2, 8, 9
SL-2R1	VIBRO-ACOUSTICS OR APPROVED EQUAL	RTU-2	REMB	400	500	1800	750	-4.00	24.0	52.0	7	12	22	29	40	39	30	25	REMB-HV-AY31406	2, 8, 9
SL-2S2	VIBRO-ACOUSTICS OR APPROVED EQUAL	RTU-2	REMB	400	500	1500	950	+5.00	22.0	63.0	7	10	14	25	23	24	20	16	REMB-HV-AY31406	2, 8, 9
SL-2R2	VIBRO-ACOUSTICS OR APPROVED EQUAL	RTU-2	REMB	450	550	1200	950	-4.00	35.0	75.0	7	12	18	24	31	32	24	18	REMB-MV-AY31406	2, 8, 9
SL-4S	VIBRO-ACOUSTICS OR APPROVED EQUAL	RTU-4	REMB	350	950	2400	1770	+3.36	14.9	47.3	8	14	16	28	35	33	25	20	REMB-HV-AY31406	8, 9
SL-4R	VIBRO-ACOUSTICS OR APPROVED EQUAL	RTU-4	REMB	600	800	1500	1770	-3.57	24.9	54.7	9	11	17	26	28	32	26	20	REMB-MHV-AY31406	8, 9

NOTES

1. TYPE: RE- RECTANGULAR ELBOW; MB- MOLDBLOCK MEDIA
2. LENGTH SHOWN FOR ELBOW SILENCERS IS CENTERLINE LENGTH.
3. VELOCITY SHOWN IS + (FORWARD FLOW) OR - (REVERSE FLOW) AS DEFINED BY ASTM E477-20.
4. IDEAL PRESSURE DROP AS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
5. PRESSURE DROP PER ASTM E477-20 PLUS SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.
6. MINIMUM DYNAMIC INSERTION LOSS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.

7a. CASING TO BE HTL EQUIVALENT TO 6 GAUGE DUCT WALL TO CONTROL BREAKOUT.

7b. CASING TO BE HTL EQUIVALENT TO 14 GAUGE DUCT WALL TO CONTROL BREAKOUT.

7c. CASING TO BE HTL EQUIVALENT TO 16 GAUGE DUCT WALL TO CONTROL BREAKOUT.

8. MEDIA SHALL BE VIBRO-ACOUSTICS® MOLDBLOCK MEDIA™ CONTAINING 100% NATURAL COTTON FIBERS TREATED WITH AN EPA REGISTERED, NON-TOXIC BORATE SOLUTION, "FLASH DRIED" TO PROVIDE RESISTANCE TO MOLD, MILDEW AND FUNGI. MEDIA SHALL COMPLY WITH UL181 AND NFPA 90A. MODLBLOCK MEDIA™ SHALL BE PACKED WITH A MINIMUM OF 15% COMPRESSION DURING SILENCER ASSEMBLY. MEDIA SHALL NOT CAUSE OR ACCELERATE CORROSION OF ALUMINUM OR STEEL. GLASS FIBER AND ROCKWOOL ARE NOT ACCEPTABLE ALTERNATES.
9. FOR NON-BASIS OF DESIGN PRODUCT SUPPLIED, CONTRACTOR IS FINANCIALLY RESPONSIBLE TO ENSURE NOISE CONTROL SOLUTION IS DELIVERED TO ACHIEVE SPECIFIED NC LEVEL IN SPACES.

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Key Plan:

Key Plan N.T.S.

Project North — True North

No.	Revisions	Date
3.	ISSUED FOR ADD M-02	05/30/2024
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Drawing Title:
EQUIPMENT SCHEDULES 1 MECHANICAL

Scale:	N.T.S.	Date:	10/05/2024
Drawn by:	SL	Checked by:	VK
Job No.	2323	Drawing No.	M5.0

SCHEDULE OF UNIT VENTILATORS

TAG	MANUFACTURER	MODEL	LOCATION	WEIGHT	DIMENSIONS			SUPPLY AIR AIFLOW	FRESH AIR AIFLOW	FILTRATION	DX COOLING								HOT WATER HEATING									FAN		ELECTRICAL			REMARKS
					DEPTH	LENGTH	HEIGHT				TOTAL COOLING	SENSIBLE COOLING	APD	EAT (°C)		LAT (°C)		OAT	MEDIUM	CAPACITY	WATER FLOW	EWT	LWT	WPD	EAT	LAT	OAT	MOTOR HP	ESP	MCA	MAX. BREAKER	POWER	
				(KG)	(MM)	(MM)	(MM)	(L/S)	(L/S)		(KW)	(KW)	(Pa)	DB	WB	DB	WB	(°C)		(KW)	(L/S)	(°C)	(°C)	(kPa)	(°C)	(°C)	(°C)		(Pa)	(A)	(A)	(V/PH/HZ)	
UV-1	SYSTEMAIR	HPA 36 1000 O B IQ	CLASSROOMS	454	813	1,118	2,311	472	212	(2) 50MM MERV13	10.2	7.4	49.8	26.7	19.4	12.6	12.6	35.0	WATER	19.2	0.25	71.1	54.5	2.2	3.1	33.0	-20	1/2	62.3	22.94	30.0	208/3/60	
UV-2	SYSTEMAIR	HPA 48 1400 O B IQ	CLASSROOMS	499	813	1,219	2,311	660	212	(2) 50MM MERV13	13.4	10.1	69.7	26.7	19.4	13.2	13.2	35.0	WATER	21.8	0.29	71.1	54.6	2.8	8.5	32.9	-20	3/4	62.3	30.34	40.0	208/3/60	
UV-3	TEMSPEC	VUD 2000D	SCIENCE CLASSROOMS	317	584	1,118	2,362	849	271	50MM MERV13	14.9	11.5	24.9	26.7	19.4	15.6	11.1	35.0	WATER	27.5	0.42	71.1	55.0	6.0	8.9	35.6	-20	(2) 1/2	62.3	13.0	15.0	208/3/60	UNIT C/W 200MM DEEP REAR PLENUM
UV-4	SYSTEMAIR	HPA 24 800 O B IQ	CLASSROOMS	454	813	1,118	2,311	377	177	(2) 50MM MERV13	7.1	5.6	27.4	26.7	19.4	13.9	13.9	35.0	WATER	16.7	0.22	71.1	54.7	1.7	2.3	34.7	-20	1/2	62.3	19.18	25.0	208/3/60	
UV-5	TEMSPEC	HCD 1200D	SPECIALTY CLASSROOMS	136	2,362	711	546	566	212	50MM MERV13	11.1	7.9	39.9	26.7	19.4	15.6	13.9	35.0	WATER	21.2	0.26	71.1	51.7	1.5	3.1	33.9	-20	1/2	62.3	7.0	15.0	208/3/60	
UV-6	TEMSPEC	HCD 1600D	SPECIALTY CLASSROOMS	340	2,362	838	584	708	212	50MM MERV13	13.7	13.7	42.3	26.7	19.4	15.6	13.9	35.0	WATER	22.8	0.29	71.1	51.7	1.8	6.1	32.8	-20	3/4	62.3	11.5	15.0	208/3/60	
UV-7	TEMSPEC	VUD 1600D	SCIENCE CLASSROOMS	340	584	838	2,362	708	248	50MM MERV13	12.7	12.7	44.8	26.7	19.4	15.0	14.4	35.0	WATER	23.1	0.37	71.1	55.6	3.9	7.2	34.4	-20	3/4	62.3	7.0	15.0	208/3/60	UNIT C/W 200MM DEEP REAR PLENUM
UV-8	TEMSPEC	VUD 2000D	STUDENT SERVICES	317	584	1,118	2,362	943	212	50MM MERV13	16.8	13.1	34.8	26.7	19.4	15.6	13.9	35.0	WATER	32.0	0.35	71.1	48.3	4.5	7.2	35.0	-20	1/2	199.3	13.0	15.0	208/3/60	UNIT C/W 200MM DEEP REAR PLENUM

NOTES

1. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.
2. UNIT TO BE PROVIDED WITH ASSOCIATED DAMPERS AND ACTUATORS, VALVE PACKAGE INCLUDING ELECTRONIC 2-WAY CONTROL VALVE AND CIRCUIT BALANCING VALVE, AND BACNET COMPATIBLE UNIT CONTROLLER.
3. CONTRACTOR TO PROVIDE TOP SUPPLY AIR PLENUM AND WALL SLEEVE TO CONNECT UNIT TO LOUVRE.

SCHEDULE OF VIBRATION ISOLATION

EQUIPMENT	MANUFACTURER	TYPE OF BASE & THICKNESS (MM)	TYPE OF ISOLATION	STATIC DEFLECTION (MM)	REMARKS
HORIZONTAL UNIT VENTILATORS	VIBRO ACOUSTICS OR APPROVED EQUAL	-	SHR	25	
CONDENSING UNIT	VIBRO ACOUSTICS OR APPROVED EQUAL	-	NSN	3.8	
VERTICAL UNIT VENTILATORS	VIBRO ACOUSTICS OR APPROVED EQUAL	-	NSN	3.8	

NOTES:

1. CSR - RESTRAINED SPRING FLOOR MOUNT
2. NSN - NEOPRENE/STEEL/NEOPRENE PAD
3. SHR - SPRING HANGER

SCHEDULE OF CONDENSING UNITS

TAG	MANUFACTURER	MODEL	LOCATION	SYSTEM SERVED	WEIGHT	DIMENSIONS			OUTDOOR FAN			CAPACITY	ELECTRICAL			REFRIGERANT			REMARKS
						WIDTH	LENGTH	HEIGHT	AIRFLOW	MOTOR	RPM								
					(KG)	(MM)	(MM)	(MM)	(L/S)	(HP)		TONNAGE	MCA	MOCP	POWER (V/PH/HZ)	TYPE	LIQUID LINE (MM)	SUCTION LINE (MM)	
CU-1	KEEPRITE	N4A4S48AKANA	ROOF	UV-5 / UV-7	78	793	793	729	1816	1/4	1100	4.0	24.5	40	208/1/60	R-410A	10	22	
CU-2	KEEPRITE	N4A4S60AKANA	ROOF	UV-3 / UV-6 / UV-8	86	793	793	901	1887	1/4	1100	5.0	33.5	50	208/1/60	R-410A	10	22	

NOTES

1 REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.
2 MOUNT UNIT ON CONCRETE PAVER C/W VIBRATION ISOLATION.
3 CONFIRM REFRIGERANT PIPING LENGTHS AND INSTALLATION LOCATION WITH MANUFACTURER PRIOR TO INSTALL.
4 PROVIDE COMPRESSOR SOUND COVER, COMPRESSOR HARD START KIT AND INDOOR BLOWER OFF DELAY RELAY.

SCHEDULE OF MINI MAKE UP AIR UNIT

TAG	MANUFACTURER	MODEL	LOCATION	AREA SERVED	DESIGN AIRFLOW	ESP	HEATING			ELECTRICAL				REMARKS
							CAPACITY	EAT	LAT	POWER	MOTOR	MCA	MOCP	
					(L/S)	(Pa)	(kW)	(°C)	(°C)	(V/ø/Hz)	(HP)			
MUA-1	NEPTRONIC	CMU12J140DD	SCIENCE CLASSROOMS	SCIENCE CLASSROOMS	299	62	14	-20	18.3	600/3/60	0.23	17.39	20.0	

NOTES

1. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
2. UNIT TO BE INTERLOCKED WITH ASSOCIATED SCIENCE ROOM FUME HOOD.
3. UNIT TO BE PROVIDED WITH IN DUCT TEMPERATURE SENSOR, FREEZESTAT AND UNIT CONTROLLER WITH BACNET CAPABILITY.

SCHEDULE OF GRILLES AND DIFFUSERS

TYPE	MANUFACTURER	MODEL	DESCRIPTION	VOLUME CONTROL	FINISH	OPTIONS	REMARKS
A	E.H. PRICE	SDGE	SPIRAL DUCT SUPPLY GRILLE	YES	TO ARCH. DIRECTION	FASTENING: TYPE A EXTRUDED ALUMINUM FACE FRAME CURVED TO MATCH RADIUS OF DUCT	REFER TO FLOOR PLANS FOR SIZE OF GRILLES.
B	E.H. PRICE	SCD	SQUARE CONE DIFFUSER	YES	TO ARCH. DIRECTION	SIZE: 24"x24" (600mm x 600mm) FRAME: 31 SURFACE MOUNT	REFER TO FLOOR PLANS FOR NECK SIZE AND AIRFLOWS.
C	E.H. PRICE	520D	LOUVERED SUPPLY GRILLE	YES	TO ARCH. DIRECTION	DOUBLE DEFLECTION 3/4" BLADE SPACING STEEL CONSTRUCTION SURFACE MOUNT: F BORDER L BLADE ORIENTATION	REFER TO FLOOR PLANS FOR SIZE OF GRILLES.
D	E.H. PRICE	530	LOUVERED RETURN GRILLE	NO	TO ARCH. DIRECTION	SINGLE DEFLECTION 3/4" BLADE SPACING SURFACE MOUNT: F BORDER FASTENING: CONCEALED "C" L BLADE ORIENTATION	REFER TO FLOOR PLANS FOR SIZE OF GRILLES.
E	E.H. PRICE	80	EGG CRATE	NO	TO ARCH. DIRECTION	DUCTED: F BORDER NON-DUCTED: CORE	REFER TO FLOOR PLANS FOR SIZE OF GRILLES.

NOTES

1. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDER
2. REFER TO DRAWINGS FOR QUANTITIES.

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Structural Consultants
Kalos Engineering Inc.
3oo York Boulevard,
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Tel: 905-333-9119

Key Plan:

Key Plan N.T.S.

N

Project North

N

True North

No.	Revisions	Date
3.	ISSUED FOR ADD M-02	05/30/2024
2.	ISSUED FOR BID	05/13/2024
1.	ISSUED FOR PERMIT	04/29/2024
No.	Issue	Date

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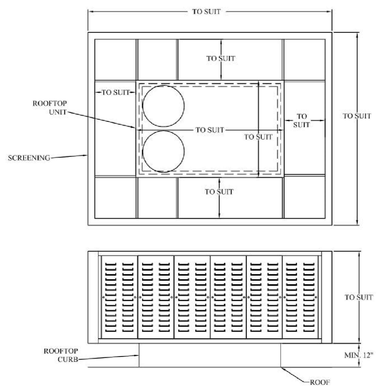
Drawing Title:
EQUIPMENT SCHEDULES 2 MECHANICAL

Scale:	N.T.S.	Date:	10/05/2024
Drawn by:	SL	Checked by:	VK
Job No.	2323	Drawing No.	M5.1

SPINNAKER INDUSTRIES INC.

"LOUVERED" OR "CORRUGATED" SLIDING PANEL
ARCHITECTUAL SCREENING SPECIFICATION (LOUVERED STYLE SHOWN)



- The successful bidder shall supply "Louvered" or "Corrugated" sliding panel style architectural screening. The screening will mount directly to the mechanical equipment (no roof-top penetration will be required, or allowed).
- The kit will include extruded aluminum tracks (min. thickness 0.050, 18 gauge), galvanized steel sus-riggers (min. thickness 0.062, 16 gauge), painted corrugated panels (min. thickness 0.030, 22 gauge) that will allow for service access when mounted, and the necessary mounting hardware.
- The paint shall be a powder polyester with a baked-on finish that meets ASTM B-117-85 standard for 500 hour salt spray, ASTM D-3363 -74 standard for H-2H pencil hardness, and ASTM D-3359-83 for adhesion.
- The architectural screening system shall be designed and approved for "wind loading" and "seismic forces" as per the following codes: FBC, OIC 2006 & UBC including Notice #2, Feb. 12th, 2002; and Exposure "D" was used as reference or lateral forces due to wind and seismic zone #4,
- Successful contractor to provide a sample color paint chip, as specified by architect, to ensure as accurate a color match as possible (Paint manufacturers numbers will NOT be acceptable - only paint chip samples).
- Successful bidder to provide: make, model number, and final approval drawings of roof-top mechanical equipment, along with any/all related accessories, to the manufacturer prior to production.

5000174
APRIL 22, 2009

27 Leading Road Etobicoke, Ontario, Canada M9V 4B7
Tel: (416) 742-0598 Fax: (416) 742-4251
4846 Jennings Lane, Louisville, Kentucky, USA 40218
Tel: 1-800-932-6210 Fax: 1-800-903-7294

SPINNAKER RESERVES THE RIGHT TO CHANGE ANY OF THE INFORMATION HEREIN WITHOUT NOTICE.

SCHEDULE OF INDOOR ERV

TAG	MANUFACTURER	MODEL	WEIGHT	DIMENSIONS			ENERGY RECOVERY CORE PERFORMANCE		SUPPLY FAN		EXHAUST FAN		ELECTRICAL				REMARK
				W	L	H	EAT	EFFECTIVENESS SENSIBLE	AIRFLOW	ESP	AIRFLOW	ESP	POWER (W)	MCA	MOCP	POWER (V/PH/HZ)	
			(KG)	(MM)	(MM)	(MM)	(°C)	(%)	(L/S)	(Pa)	(L/S)	(Pa)					
ERV-1	LOSSNAY	LGH-F300RVX2-E	34	1,016	888	331	0	72	94	150	94	150	102	4.25	15	208/1/60	C/W RENEWAIRE 'RH SERIES' 1 kW DUCT HEATER WITH 150MM DUCT COLLARS AND INTEGRAL DISCHARGE AIR TEMPERATURE SENSOR
ERV-2	LOSSNAY	LGH-F600RVX2-E	56	1,231	1,144	404	0	76	236	249	236	249	10454	5.19	15	208/1/60	C/W RENEWAIRE 'RH SERIES' 3 kW DUCT HEATER WITH 200MM DUCT COLLARS AND INTEGRAL DISCHARGE AIR TEMPERATURE SENSOR

NOTES

1. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.
2. UNITS TO BE TERMINAL STRIP READY C/W PAC-SA88 ADAPTOR.
3. UNITS C/W MERV14 FILTERS.

SCHEDULE OF VARIABLE AIR VOLUME BOXES

UNIT DESIGNATION	UNIT SIZE	MANUFACTURER	MODEL	AIRFLOW RANGE (L/S)		ATTENUATOR LENGTH (MM)	DISCHARGE NC	ELECTRIC HEATING COIL					OPTIONS	REMARKS
				MIN.	MAX.			AIRFLOW (L/S)	CAPACITY (kW)	AIR TEMP (°C) EAT	AIR TEMP (°C) LAT	POWER (V/Ø/Hz)		
VAV-1	12	E.H. PRICE	SDV5000	143	991	900	24	544	4.0	18.3	23.9	208/3/60	VAV BOX: ACCESS DOOR: ADQ LINER: SM-3/4" THICK COORDINATE 24V POWER CONNECTION FROM NEARBY POWER SUPPLY. NC VALUES TAKEN AT DELTA P = 1.5"w.c. ACROSS UNIT ELECTRIC HEATING COIL: EMC TYPE CONTROL	
VAV-2	8	E.H. PRICE	SDV5000	62	378	900	24	274	2.0	18.3	23.9	208/3/60		
VAV-3	4	E.H. PRICE	SDV5000	24	106	900	24	66	0.5	18.3	23.9	208/3/60		
VAV-4	12	E.H. PRICE	SDV5000	143	991	900	24	684	5.0	18.3	23.9	208/3/60		

NOTES

1. ALL VAV BOXES SHALL BE PROVIDED WITH DEDICATED ROOM TEMPERATURE SENSOR
2. PRESSURE INDEPENDENT COMPLETE WITH CROSS FLOW SENSOR.
3. DDC CONTROLLER/ACTUATOR SHALL BE SUPPLIED BY CONTROLS CONTRACTOR AND INSTALLED BY VAV BOX MANUFACTURER.
4. PNEUMATIC CONTROLLER/ACTUATOR SHALL BE SUPPLIED AND INSTALLED BY VAV BOX MANUFACTURER.
5. "C.V." INDICATES CONSTANT VOLUME BOX.
6. REFER TO FLOOR PLANS FOR LOCATIONS AND QUANTITIES.
7. MOUNT VAV BOXES MAXIMUM 24" ABOVE CEILING FOR MAINTENANCE

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Key Plan:

Key Plan N.T.S.

Project North | True North

No.	Revisions	Date
3.	ISSUED FOR ADD M-02	05/30/2024
2.	ISSUED FOR BID	05/13/2024
1.	ISSUED FOR PERMIT	04/29/2024
No.	Issue	Date

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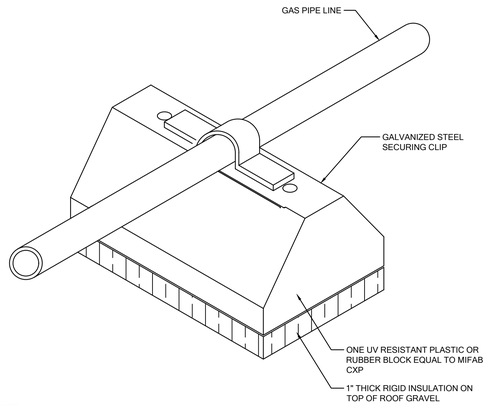
Drawing Title:
EQUIPMENT SCHEDULES 3 MECHANICAL

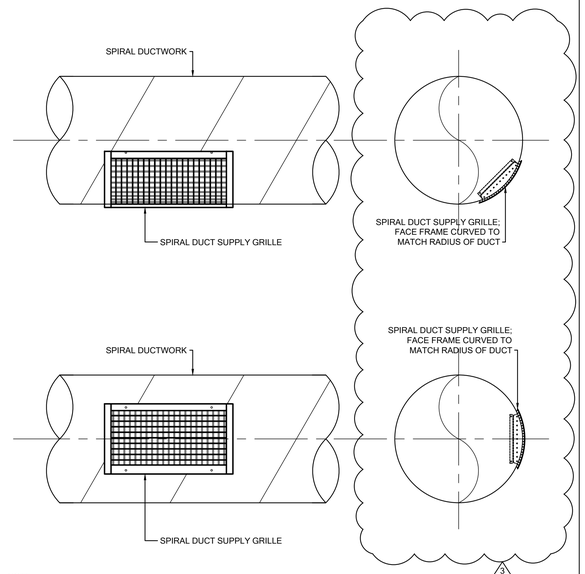
Scale:	N.T.S.	Date:	10/05/2024
Drawn by:	SL	Checked by:	VK
Job No.	2323	Drawing No.	M5.2



NOTE:
1. REFER TO MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION REQUIREMENTS
2. SPACING OF SUPPORTS TO BE AS PER CSA B149.1

DETAIL OF GAS PIPING SUPPORT ON ROOF

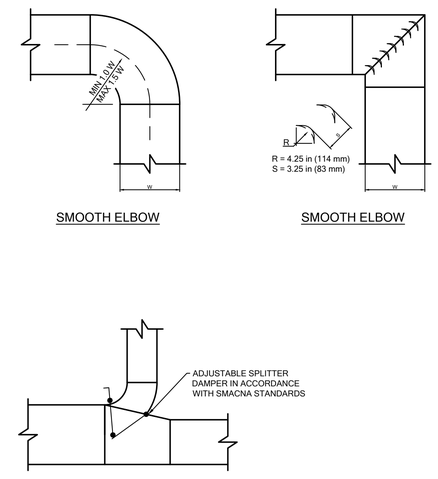
SCALE: NTS



NOTE:
REFER TO FLOOR PLANS AND SCHEDULES FOR SIZES AND QUANTITIES OF GRILLES

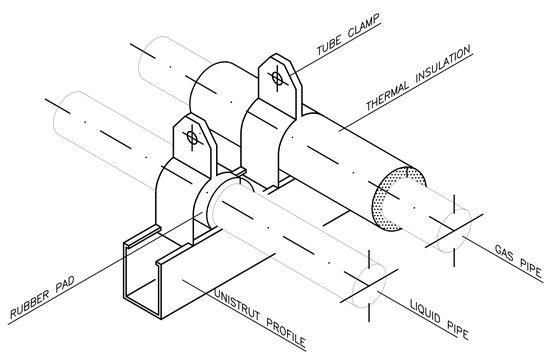
DETAIL OF SPIRAL DUCT SUPPLY AIR GRILLE

SCALE: NTS



DETAIL OF TYPICAL DUCTWORK FITTINGS

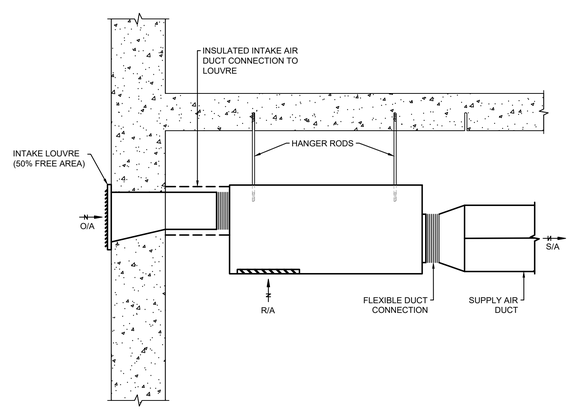
SCALE: NTS



NOTES:
1. PROVIDE A SECTION OF HIGH COMPRESSION STRENGTH INSULATION AT EACH HANGER. INSULATION MAY BE TO HALF ROUND OR FULL ROUND AND EXTEND A MINIMUM OF 50 mm (2") BEYOND INSULATION SHIELD IN EACH DIRECTION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
2. INSULATION SHIELD TO BE MINIMUM 16 GA.
3. CONTRACTOR IS RESPONSIBLE TO PROVIDE AN ENGINEERED SYSTEM FOR PIPE HANGERS SUITABLE TO SUPPORT THE SIZE AND WEIGHT OF THE PIPE BEING SUPPORTED.

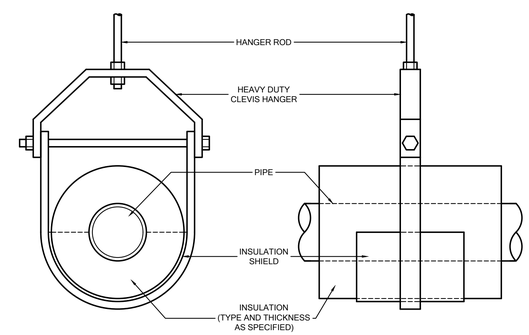
DETAIL OF PIPE HANGER

SCALE: NTS



DETAIL OF HORIZONTAL UNIT VENTILATOR

SCALE: NTS



PIPE SIZE		(mm)	25	30	40	50	65	75	100	125	150	200	250	300
		(INCH)	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10	12
HANGER SPACING (FT)	STD. STEEL	WATER	7	7	9	10	11	12	14	14	17	19	20	23
		STEAM	9	9	12	13	14	15	17	17	21	24	26	30
	COPPER	WATER	6	6	8	8	9	10	12	12	14	16	18	19
HANGER ROD DIAMETER (INCH)			1/4	3/8	3/8	3/8	3/8	3/8	1/2	1/2	1/2	5/8	3/4	7/8

NOTES:
1. PROVIDE A SECTION OF HIGH COMPRESSION STRENGTH INSULATION AT EACH HANGER. INSULATION MAY BE TO HALF ROUND OR FULL ROUND AND EXTEND A MINIMUM OF 50 mm (2") BEYOND INSULATION SHIELD IN EACH DIRECTION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
2. INSULATION SHIELD TO BE MINIMUM 16 GA.
3. CONTRACTOR IS RESPONSIBLE TO PROVIDE AN ENGINEERED SYSTEM FOR PIPE HANGERS SUITABLE TO SUPPORT THE SIZE AND WEIGHT OF THE PIPE BEING SUPPORTED.

DETAIL OF PIPE HANGER

SCALE: NTS

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Drawing Title:

DETAILS 1 MECHANICAL

Scale:	N.T.S.	Date:	10/05/2024
Drawn by:	SL	Checked by:	VK
Job No.	2323	Drawing No.	M6.0

ELECTRICAL ADDENDUM
E-01

RDZ ENG

Project Name:	Nelson High School Renovations	Date:	May 30, 2024
Project Address:	4181 New Street Burlington, Ontario		
Project No.:	23178		
Electrical Addendum	E-01		

Include for the following additions, deletions, and/or clarifications in your bid amount. Indicate in the space provided on the bid form that you have received and included for the requirements of this addendum.

1. DRAWINGS

1.1. E100: GROUND FLOOR KEY PLAN - ELECTRICAL

.1 Refer to Drawing E100 and include the changes indicated. Rough-in for Temperature sensors have been added.

1.2. E200: GROUND FLOOR (EAST WING) DEMOLITION LAYOUT - ELECTRICAL

.1 Refer to Drawing E200 and include the changes indicated.
- Updated location of temperature sensor to be removed.
- Added clock to be disconnected and removed and all associated conduit and wiring. Maintain existing clock system wiring continuity.

1.3. E201: GROUND FLOOR (SOUTH WING) DEMOLITION LAYOUT - ELECTRICAL

.1 Refer to Drawing E201 and include the changes indicated.
- Added temperature sensor to be removed in Student Service #109.

1.4. E202: GROUND FLOOR (EAST WING) MODIFICATION LAYOUT - ELECTRICAL

.1 Refer to Drawing E202 and include the changes indicated.
- Added note #17 and scope of work in the washroom,
- Clarified receptacle circuit in classroom 120.
- Added note #16 and associated work in Science Lab #119.
- temperature sensor rough-in added in the corridor.
- Added duct smoke detector for fire smoke damper and note #18 in corridor 1C5.

1.5. E203: GROUND FLOOR (SOUTHWEST WING) MODIFICATION LAYOUT - ELECTRICAL

.1 Refer to Drawing E203 and include the changes indicated.
- Modified note #15, and indicated area of work in the corridor.
- Added additional power and communication service work in the workroom to suit mechanical and architectural demolition work.

1.6. E300: SECOND FLOOR (EAST WING) DEMOLITION LAYOUT – ELECTRICAL

.1 Refer to Drawing E300 and include the changes indicated. Note #12 has been revised.

1.7. E302: SECOND FLOOR (EAST WING) MODIFICATION LAYOUT – ELECTRICAL

.1 Refer to Drawing E302 and include the changes indicated.
- Relocated light fixtures in classrooms to suit UV cabinets.
- Added power connection for fire smoke damper and associated duct smoke detector to be interlocked with fire smoke damper and note #19.

1.8. E303: SECOND FLOOR (SOUTH WING) MODIFICATION LAYOUT – ELECTRICAL

.1 Refer to Drawing E303 and include the changes indicated. Added note #12 and identified area of work in the corridor.

1.9. E304: SECOND FLOOR (WEST WING) DEMOLITION & MODIFICATION LAYOUT - ELECTRICAL

.1 Refer to Drawing E304 and include the changes indicated.

- Relocated & Added duct somke detectors for fire smoke damper.
- Deleted duct smoke detector for RTU-2 in the corridor.
- Revised electrical work in corridor 2C4.
- Added rough-in for temperature sensors.
- Relocated VAV power connections.

1.10. E400: ROOF MODIFICATION LAYOUT – ELECTRICAL

.1 Refer to Drawing E400 and include the changes indicated. Added duct smoke detector and heater for RTU-2 on the roof.

1.11. E500: SINGLE LINE DIAGRAM – ELECTRICAL

.1 Refer to Drawing E400 and include the changes indicated. Added Panel elevation for panel PP-OD.

1.12. E600: FIRE ALARM RISER - ELECTRICAL

.1 Refer to Drawing E600 and include the changes indicated.

- Added additional supervisory zone for the fire smoke damper actuator.
- Added Fire smoke damper detector legend and associated notes. '
- Added note #16.

1.13. E700: PANEL SCHEDULE - ELECTRICAL

.1 Refer to Drawing E700 and include the changes indicated.

- Updated Panel Schedule for panel RP-ES, RP-EG & RP-WS.

2. SPECIFICATION

2.1. SECTION 26 50 10 - LIGHTING FIXTURE SCHEDULE

.1 Under Product, updated description for light fixture type A.
.2 Under products, item 2.3, Added Columbia lighting shall be considered as equal.

3. ATTACHMENTS

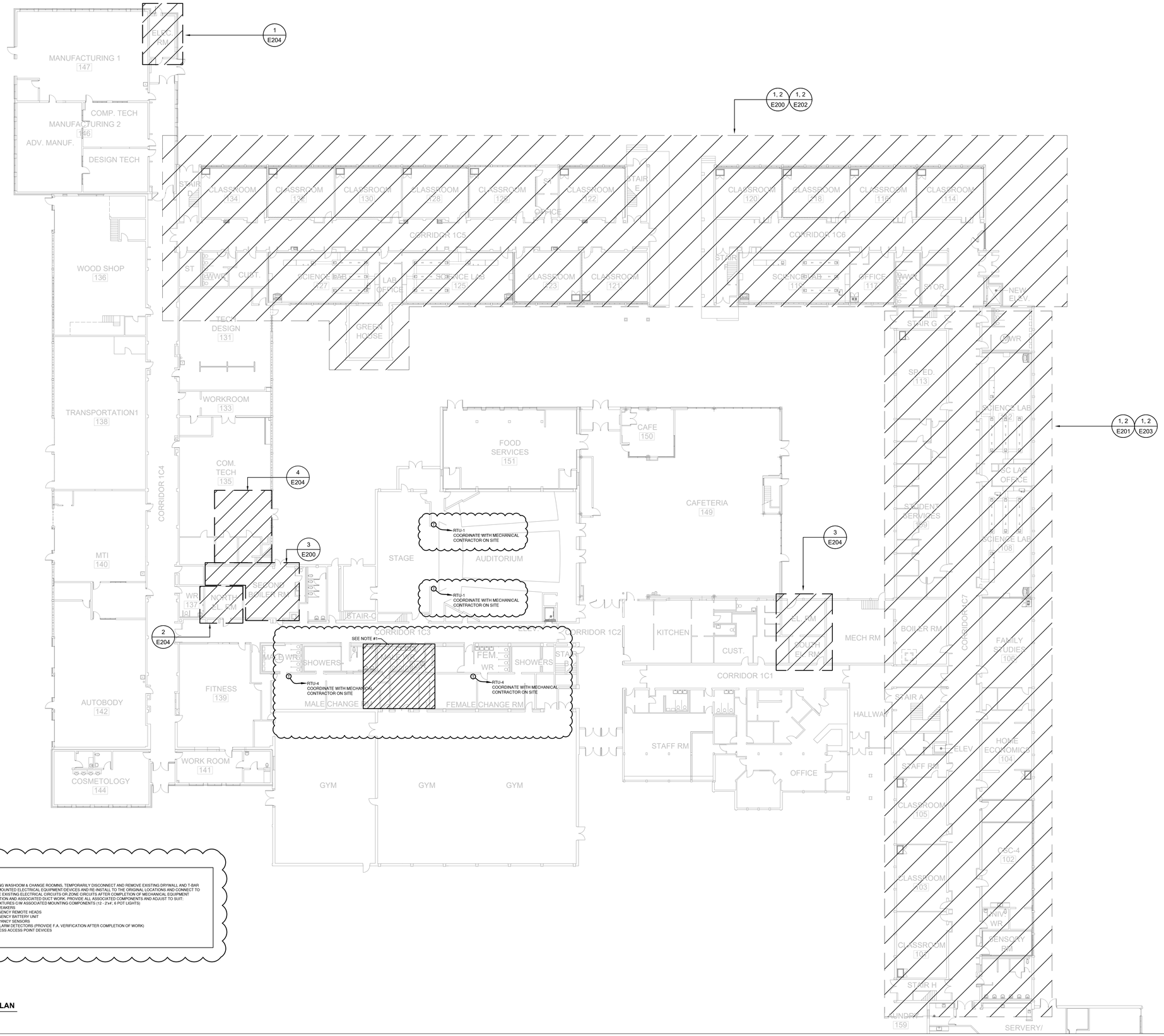
3.1. DRAWINGS

.1 E100: GROUND FLOOR KEY PLAY
.2 E200: GROUND FLOOR (EAST WING) DEMOLITION LAYOUT
.3 E201: GROUND FLOOR (SOUTH WING) MODIFICATION LAYOUT
.4 E202: GROUND FLOOR (EAST WING) MODIFICATION LAYOUT
.5 E203: GROUND FLOOR (SOUTHWEST WING) MODIFICATION LAYOUT
.6 E300: SECOND FLOOR (EAST WING) DEMOLITION LAYOUT
.7 E302: SECOND FLOOR (EAST WING) MODIFICATION LAYOUT
.8 E303: SECOND FLOOR (SOUTH WING) MODIFICATION LAYOUT
.9 E304: SECOND floor (WEST WING) DEMOLITION & MODIFICATION LAYOUT
.10 E400: ROOF MODIFICATION LAYOUT
.11 E500: SINGLE LINE DIAGRAM
.12 E600: FIRE ALARM RISER
.13 E700: PANEL SCHEDULE

3.2. SPECIFICATION

.1 Section 26 50 10 - Lighting fixture schedule

End of Electrical Addendum E-01



NOTES

1. IN EXISTING WASHOOM & CHANGE ROOMNS, TEMPORARILY DISCONNECT AND REMOVE EXISTING DRYWALL AND T-BAR CEILING MOUNTED ELECTRICAL EQUIPMENT/DEVICES AND RE-INSTALL TO THE ORIGINAL LOCATIONS AND CONNECT TO THE SAME EXISTING ELECTRICAL CIRCUITS OR ZONE CIRCUITS AFTER COMPLETION OF MECHANICAL EQUIPMENT INSTALLATION AND ASSOCIATED DUCT WORK. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST TO SUIT:
   - LIGHT FIXTURES C/W ASSOCIATED MOUNTING COMPONENTS (12 - 2'x4', 6 POT LIGHTS)
   - 4 P.A. SPEAKERS
   - 4 EMERGENCY REMOTE HEADS
   - 1 EMERGENCY BATTERY UNIT
   - 2 OCCUPANCY SENSORS
   - 4 FIRE ALARM DETECTORS (PROVIDE F.A. VERIFICATION AFTER COMPLETION OF WORK)
   - 4 WIRELESS ACCESS POINT DEVICES

1 / E100 **GROUND FLOOR KEY PLAN**
1:250

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N — Project North

N — True North

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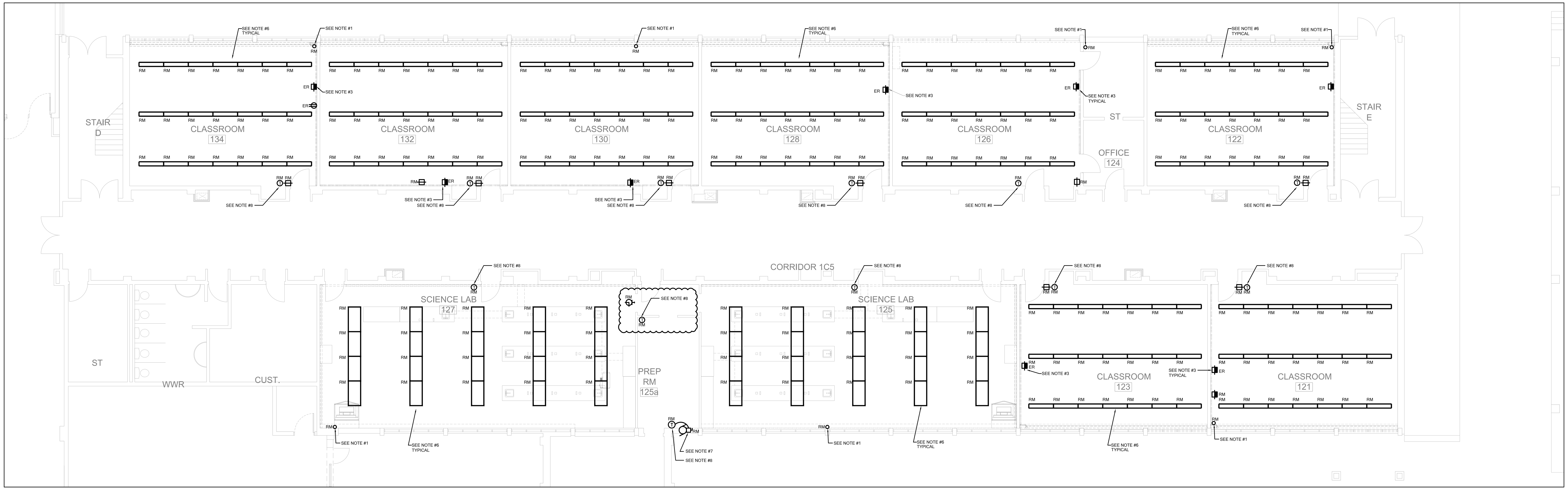
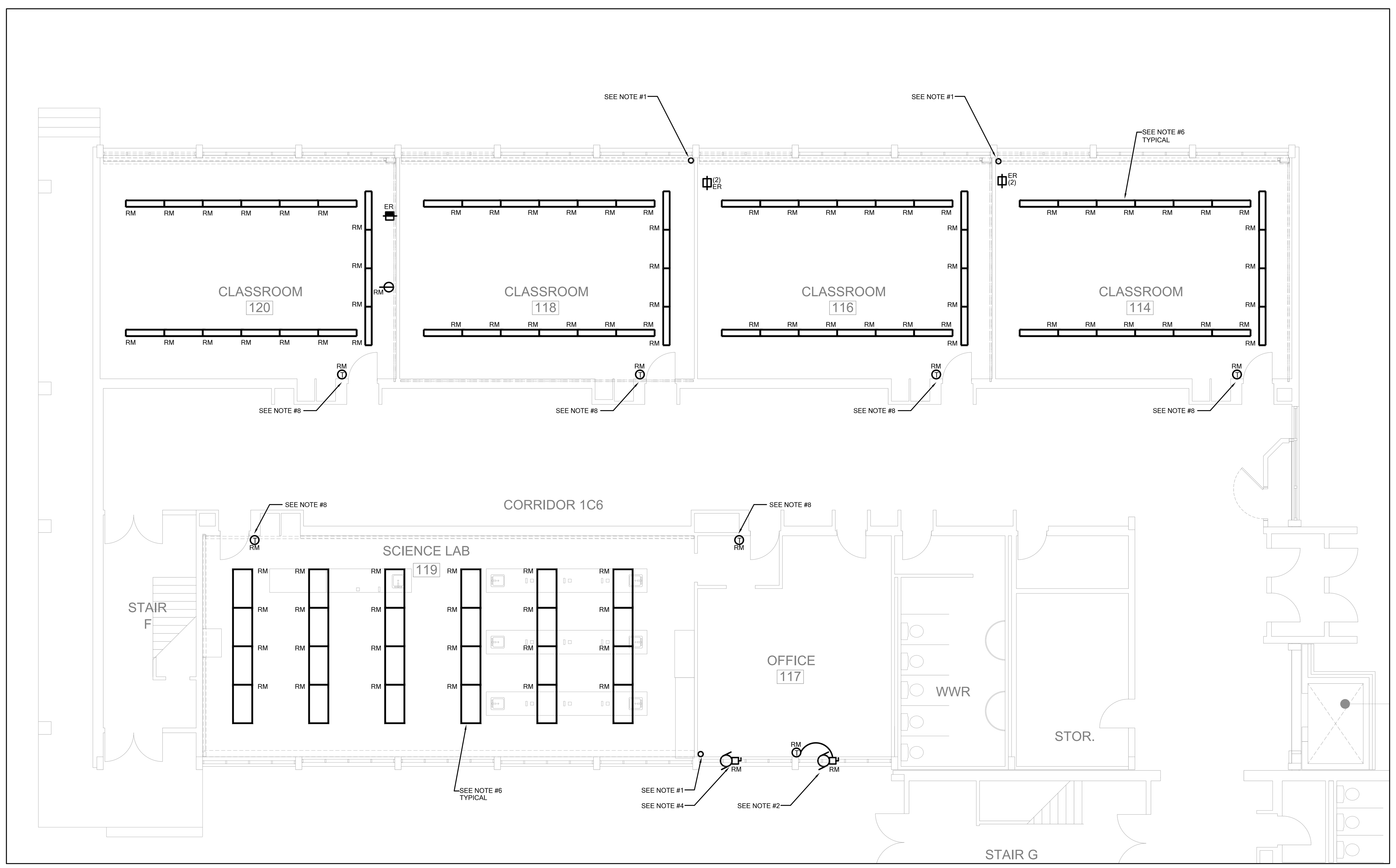
Drawing Title:

GROUND FLOOR KEY PLAN

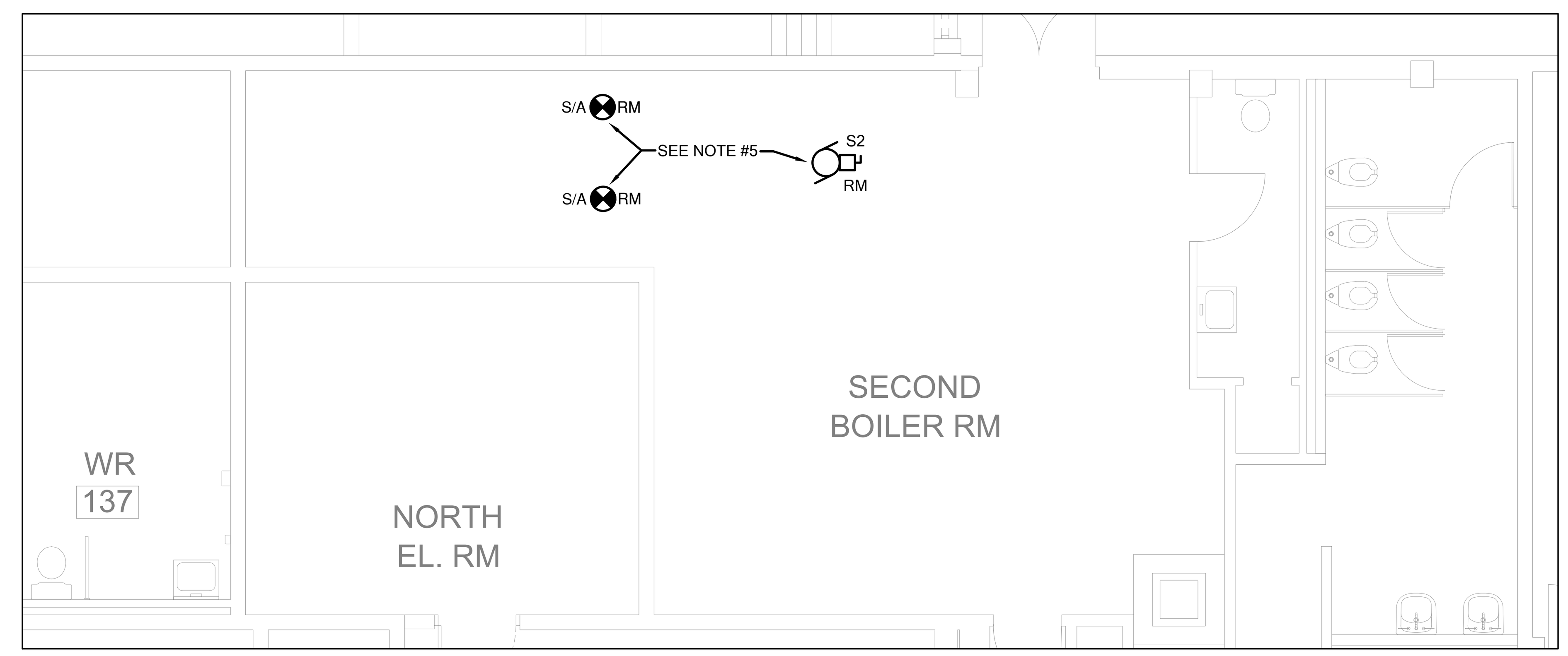
Scale:	1:250	Date:	MAY 2024
Drawn by:	FH	Checked by:	TM
Job No.	23178	Drawing No.	E100



1 / E200 **GROUND FLOOR (EAST WING) DEMOLITION LAYOUT (PART 1/2)**
1:100



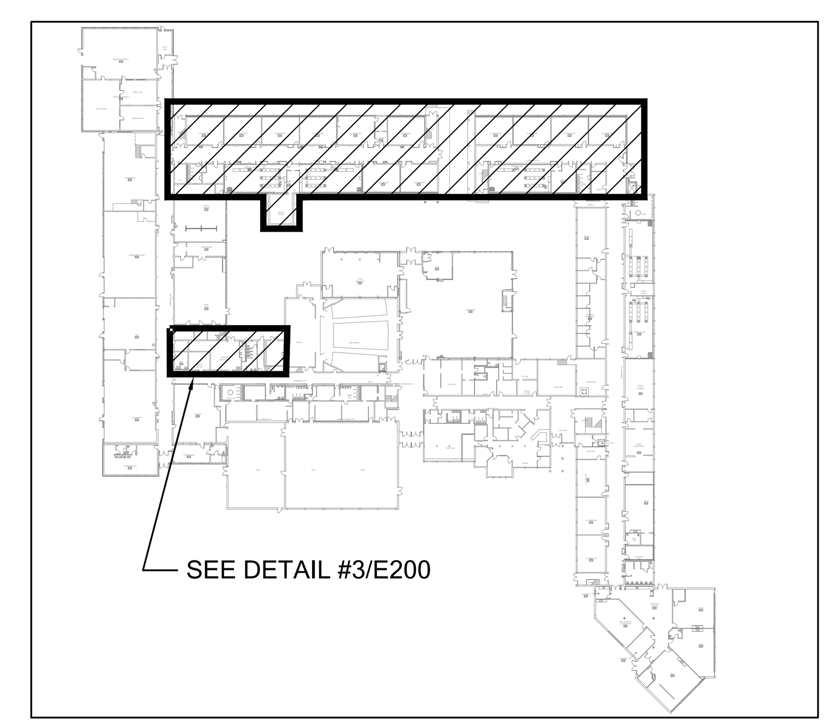
2 / E200 **GROUND FLOOR (EAST WING) DEMOLITION LAYOUT (PART 2/2)**
1:100



3 / E200 **GROUND FLOOR BOILER ROOM - DEMOLITION LAYOUT**
1:100

NOTES

1. EXISTING SURFACE MOUNTED CONTROL CONDUIT COMPLETE WITH ASSOCIATED WRING SHALL BE DISCONNECTED AND REMOVED BACK TO SOURCE TO SUIT DEMOLITION OF EXISTING RADIANT HEATER. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR ON SITE.
2. DISCONNECT THE EXISTING EXHAUST FAN AND ASSOCIATED CONTROLLER. REMOVE EXISTING ASSOCIATED CONDUIT AND WIRING BACK TO THE SOURCE.
3. EXISTING AV AUXILIARY OUTLET COMPLETE WITH ASSOCIATED SURFACE MOUNTED RACEWAY SHALL BE DISCONNECTED AND REMOVED TO SUIT REMOVAL OF EXISTING BACK WALL. RETAIN EXISTING RACEWAY, AV WIRING & AV FACE PLATE FOR THE RE-INSTALLATION. REFER TO DRAWING E-202 FOR FURTHER DETAILS.
4. DISCONNECT THE EXISTING AC UNIT AND REMOVE EXISTING ASSOCIATED CONDUIT AND WIRING BACK TO THE SOURCE.
5. EXISTING SUPPLY AIR HANDLING UNIT SHALL BE DISCONNECTED AND REMOVED C/W ASSOCIATED CONDUIT, WIRING, AND FUSED SWITCH STARTER. DISCONNECT AND REMOVE ASSOCIATED DUCT SMOKE DETECTORS. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. MARK EXISTING FIRE ALARM ZONE TO BE SPARE.
6. EXISTING LIGHT FIXTURES SHALL BE DISCONNECTED AND REMOVED. MAKE EXISTING WIRING SAFE FOR RECONNECTION OF NEW LIGHT FIXTURES IN THE ROOM.
7. EXISTING MECHANICAL FAN, THERMOSTAT COMPLETE WITH ASSOCIATED CONDUIT AND WIRING SHALL BE DISCONNECT AND REMOVED. REMOVE EXISTING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
8. EXISTING WALL MOUNTED THERMOSTAT SHALL BE DISCONNECT AND REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.



KEY PLAN - GROUND FLOOR EAST WING RENOVATION
N.T.S.

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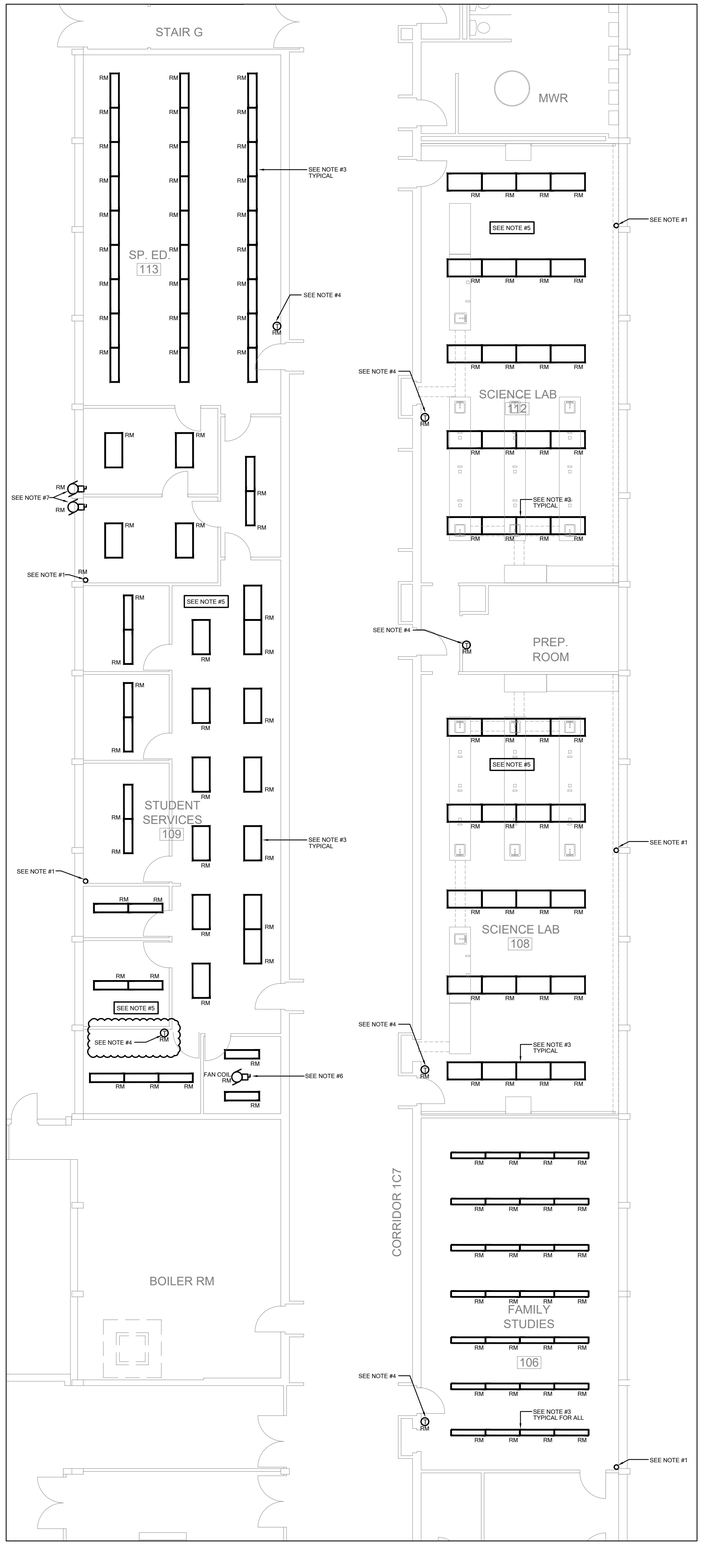
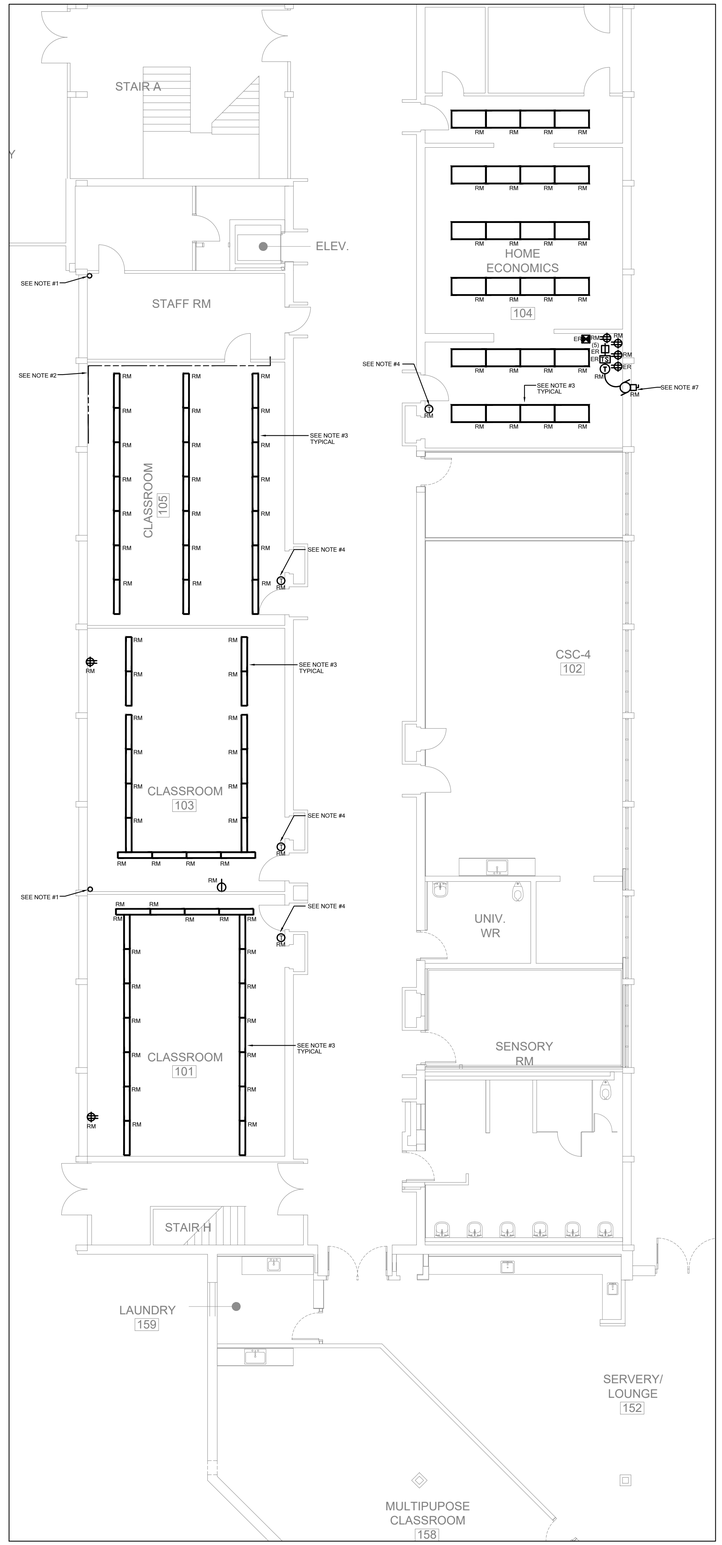
Drawing Title:
GROUND FLOOR
(EAST WING)
DEMOLITION LAYOUT

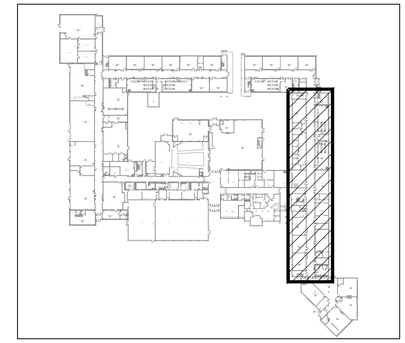
Scale: 1:100		Date: MAY 2024	
Drawn by: FH		Checked by: TM	
Job No. 23178		Drawing No. E200	



1 E201 **GROUND FLOOR (SOUTH WING) DEMOLITION LAYOUT (PART 1/2)**
1:100



2 E201 **GROUND FLOOR (SOUTH WING) DEMOLITION LAYOUT (PART 2/2)**
1:100



KEY PLAN - GROUND FLOOR SOUTH WING RENOVATION
N.T.S.

NOTES

1. EXISTING SURFACE MOUNTED CONTROL CONDUIT COMPLETE WITH ASSOCIATED WIRING SHALL BE DISCONNECTED AND REMOVED BACK TO SOURCE TO SUIT DEMOLITION OF EXISTING RADIANT HEATER. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR ON SITE.
2. EXISTING ABANDONED DATA CABLES SHALL BE REMOVED BACK TO SOURCE,
3. EXISTING LIGHT FIXTURES SHALL BE DISCONNECTED AND REMOVED. MAKE EXISTING WIRING SAFE FOR RECONNECTION OF NEW LIGHT FIXTURES IN THE ROOM.
4. EXISTING WALL MOUNTED THERMOSTAT SHALL BE DISCONNECT AND REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
5. IN SCIENCE ROOM #108 & 112 & STUDENT SERVICES #109, PROVIDE PROPER SUPPORT FOR ALL EXISTING FREE AIR DATA CABLES, WIRING. FLEXIBLE CONDUIT/BX WIRING, ETC. ABOVE EXISTING CEILING TO SUIT CEILING WORK.
6. DISCONNECT EXISTING FAN COIL UNIT. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
7. DISCONNECT EXISTING EXHAUST FAN. REMOVE ASSOCIATED FAN CONTROLLER. REMOVE ALL ASSOCIATED CONDUIT, WIRING BACK TO SOURCE.

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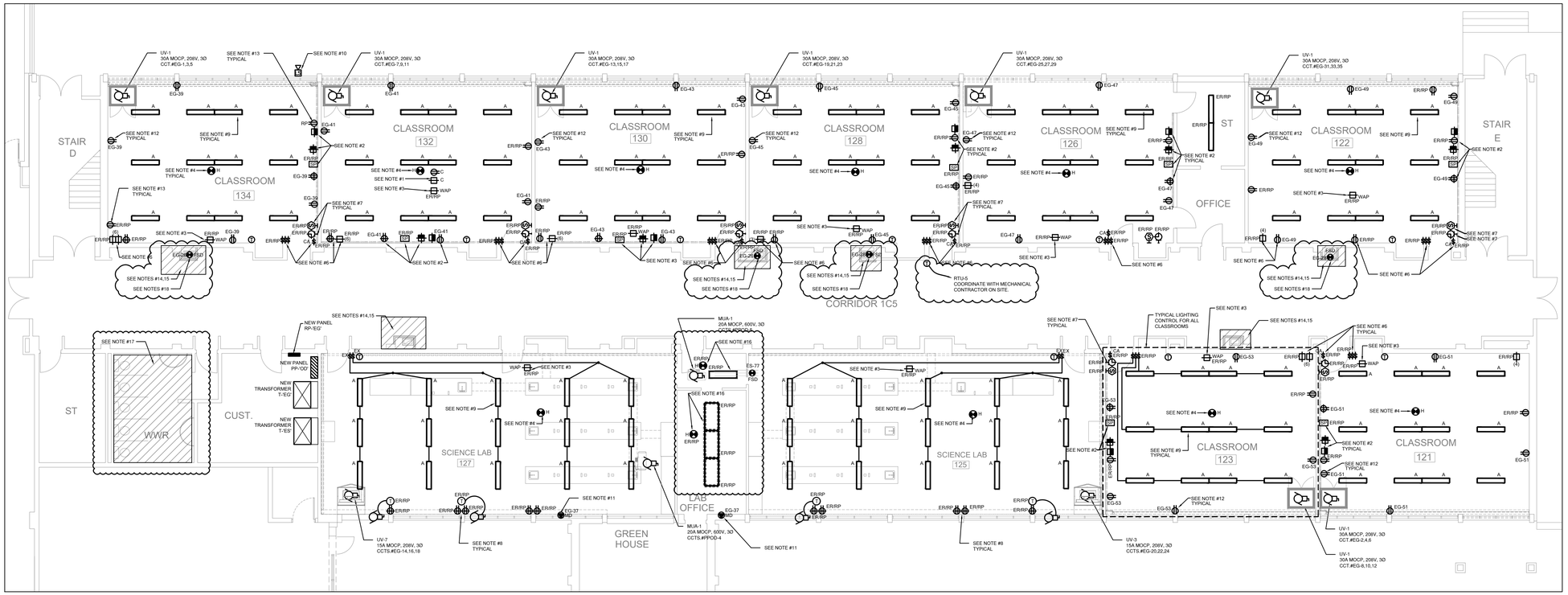
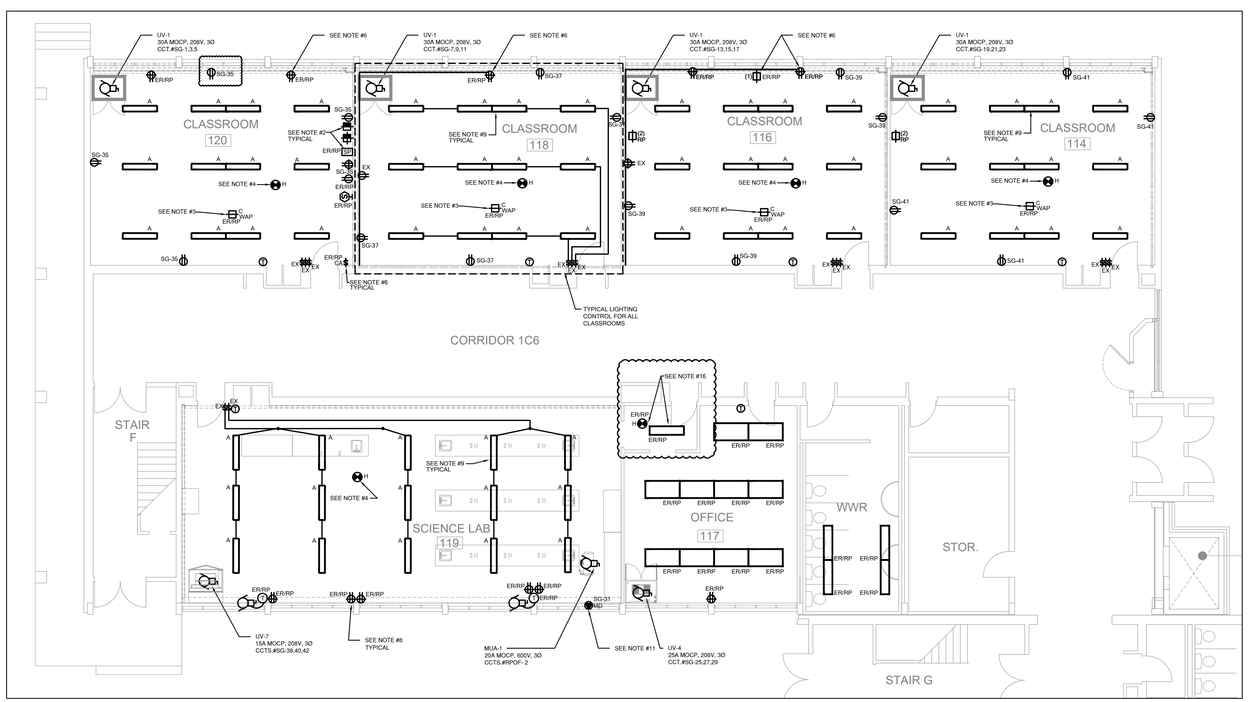
Drawn by:	FH	Checked by:	TM
Job No.	23178	Drawing No.	E201



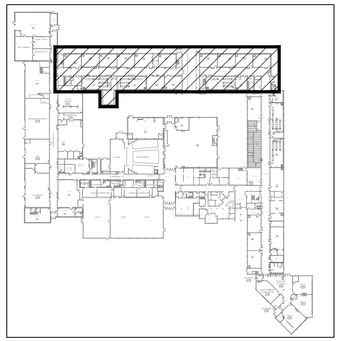
1 E202 **GROUND FLOOR (EAST WING) MODIFICATION LAYOUT (PART 1/2)**
1:100



2 E202 **GROUND FLOOR (EAST WING) MODIFICATION LAYOUT (PART 2/2)**
1:100

NOTES

1. IN ALL RENOVATED ROOMS/AREAS, EXISTING CEILING MOUNTED PROJECTOR SHALL BE DISCONNECTED AND REMOVED TO SUIT CONSTRUCTION WORK. RE-INSTALL THE PROJECTOR AT THE SAME LOCATION ONCE THE RENOVATION WORK IS COMPLETED IN ROOM/AREA.
2. EXISTING SHORT THROW PROJECTOR SHALL BE DISCONNECTED AND REMOVED TO SUIT DEMOLITION WORK AND RE-INSTALLED AT THE SAME LOCATION AT THE NEW DRYWALL. PROVIDE ALL REQUIRED MOUNTING SUPPORT AS REQUIRED FOR PROPER INSTALLATION. PROVIDE NEW AV OUTLET AND ASSOCIATED NEW CONDUIT, BACKBOX, ETC. TO SUIT. RE-USE EXISTING SURFACE MOUNTED RACEWAY AND FIELD CUT TO SUIT. AND SHALL BE INSTALLED BELOW PROJECTOR AND TERMINATED AT THE NEW AV OUTLET BOX. RE-PULL EXISTING AV WIRING FROM SHORT THROW PROJECTOR THROUGH RACEWAY AND NEW AV OUTLET AT HIGH LEVEL. TERMINATE THE AV CABLING AT THE NEW AV OUTLET BELOW TEACHER'S DESK WITH EXISTING AV FACEPLATE OBTAINED FROM DEMOLITION. REFER TO DETAIL#1 ON DRAWING E-001 FOR ALL REQUIREMENT.
3. IN ALL RENOVATED ROOMS/AREAS, EXISTING WIRELESS ACCESS POINT SHALL BE DISCONNECTED AND REMOVED BY SCHOOLBOARD IT TEAM. THE EXISTING DATA CABLE AND KEYSTONE JACK SHALL BE MADE SAFE TO SUIT DEMOLITION WORK. RE-INSTALL AND TERMINATE EXISTING DATA CABLE AND JACK AT THE SAME LOCATION UPON COMPLETION OF NEW WORK FOR SCHOOLBOARD IT TEAM TO RE-INSTALL THE WIRELESS ACCESS POINT DEVICE.
4. IN ALL RENOVATED ROOMS/AREAS, EXISTING HEAT DETECTOR SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. PROVIDE PROTECTING COVER TO AVOID FALSE ALARMS. REMOVE THE COVERS AT THE END OF CONSTRUCTION FROM ALL ROOMS/AREAS.
5. PROVIDE NEW RECEPTACLE AND CONNECT TO THE NEAREST EXISTING RECEPTACLE CIRCUIT. PROVIDE ASSOCIATED CONDUIT AND WIRING TO SUIT.
6. IN CLASSROOM, EXISTING WALL MOUNTED RECEPTACLES, DATA OUTLET, CALL SWITCH & LIGHT TOGGLE SWITCHES SHALL BE DISCONNECTED AND REMOVED C/W ASSOCIATED CONDUIT AND WIRING TO THE NEAREST JUNCTION BOX AND MAKE SAFE TO SUIT DEMOLITION WORK. RE-INSTALL ALL DEVICES AT THE SAME LOCATION RECESSED INTO THE NEW DRYWALL. PROVIDE ASSOCIATED CONDUIT AND BACKBOX TO SUIT. EXTEND EXISTING WIRING AND DATA CABLES AND TERMINATE AT EACH EXISTING DEVICE LOCATION TO SUIT.
7. EXISTING PA SPEAKER & CLOCK SHALL BE DISCONNECT AND REMOVED TO SUIT DEMOLITION WORK. RE-INSTALL ALL DEVICES AT THE SAME LOCATION TO SUIT NEW WORK. PROVIDE NEW BACK BOX AND EXTEND EXISTING WIRING AND CONNECT TO CLOCK AND PA SPEAKER.
8. IN SCIENCE LABS, EXISTING SURFACE WALL MOUNTED RECEPTACLES, DATA OUTLETS AND EXHAUST FAN CONTROLLER ON THE COLUMN EXTERIOR WALL AND ASSOCIATED CONDUIT/RACEWAY SHALL BE DISCONNECTED, REMOVED, WIRES PULLED BACK TO THE NEAREST EXISTING RECEPTACLE/JUNCTION BOX AND MADE SAFE TO SUIT ABATEMENT WORK. RE-INSTALL THE RECEPTACLE, DATA OUTLETS AND EXHAUST FAN CONTROLLER AT THE SAME LOCATION. PROVIDE NEW CONDUIT AND EXTEND EXISTING WIRING & DATA CABLES TO SUIT.
9. PROVIDE NEW LED 1X4 SURFACE MOUNTED LIGHT FIXTURE AS SPECIFIED AND CONNECT TO EXISTING LIGHTING CIRCUIT AND LIGHT SWITCHES/ZONES OF THIS ROOM/AREA. EXTEND EXISTING CONDUIT/WIRING AND PROVIDE NEW CONDUIT AND WIRING AS REQUIRED AND RE-CONNECT NEW LIGHT FIXTURES AS SHOWN. COORDINATE WITH MECHANICAL CONTRACTOR TO ENSURE NEW FIXTURE AVOID NEW HVAC DUCT WORK.
10. EXISTING LOCKDOWN DEVICE SHALL BE DISCONNECTED AND REMOVED C/W ASSOCIATED CONDUIT AND WIRING BACK TO THE NEAREST JUNCTION BOX AND MAKE SAFE TO SUIT DEMOLITION WORK. PROVIDE NEW CONDUIT AND PULL EXISTING WIRING AND RECONNECT TO THE DEVICE UPON COMPLETION OF DEMOLITION WORK. ALL CONDUIT SHALL BE CONSEALED BEHIND NEW DRYWALL.
11. PROVIDE 120V CONNECTION THROUGH CONTROL RELAY PROVIDED BY CONTROL CONTRACTOR AND CONNECT TO MOTORIZED DAMPER. COORDINATE ALL WORK WITH CONTROL CONTRACTOR ON SITE.
12. EXACT LOCATION OF ALL NEW RECEPTACLES IN ALL CLASSROOMS/AREAS SHALL BE COORDINATED WITH ARCHITECT AND OWNER BEFORE INSTALLATION. NEW RECEPTACLE AT THE TEACHING WALL SHALL BE LOCATED AT THE TEACHER'S DESK. CONFIRM EXACT LOCATION ON SITE.
13. REPLACE EXISTING RECEPTACLES WITH NEW RECEPTACLES AND SS COVER PLATE AT RELOCATED POSITION. TYPICAL FOR ALL RELOCATED RECEPTACLES FOR ALL AREAS.
14. IN THIS AREA RELOCATE EXISTING RECEPTACLES WHICH ARE IN CONFLICT WITH NEW MECHANICAL DUCT SHAFT. COORDINATE EXACT LOCATION OF RECEPTACLES WITH MECHANICAL SHAFT LOCATION AND ON SITE. ADJUST ALL COMPONENTS TO SUIT.
15. IN THIS AREA, RE-ROUTE EXISTING CONDUIT/WIRING TO ACCOMMODATE NEW MECHANICAL DUCT SHAFT INSTALLATION. INCLUDE 4N CONDUIT/WIRING FOR EACH OF THE FOLLOWING SYSTEMS/CIRCUITS:
   - FIRE ALARM SYSTEM
   - SECURITY SYSTEM
   - P.A./TELEPHONE SYSTEM
   - CCTV SYSTEM
   - FIVE 1". FIVE 2" FEEDER CONDUIT/WIRING FOR 120/208V CIRCUITS
   - FIVE 1/2" CONDUITS/WIRING FOR 120/208V CIRCUITS
16. EXISTING HEAT DETECTOR AND LIGHT FIXTURE SHALL BE DISCONNECTED AND REMOVED TO SUIT INSTALLATION OF NEW MECHANICAL DUCT WORK/ MAKE UP AIR UNIT AND ASSOCIATED DUCT WORK. RE-INSTALL ALL DEVICES UPON COMPLETION OF MECHANICAL WORK. COORDINATE WITH MECHANICAL CONTRACTOR ON SITE TO CONFIRM THE EXACT LOCATION FOR RE-INSTALLATION OF THE EXISTING DEVICE. ALLOW FOR REWORK AND EXTEND EXISTING CONDUIT AND
17. IN EXISTING WASHROOM, TEMPORARILY DISCONNECT AND REMOVE EXISTING DRYWALL AND T-BAR CEILING MOUNTED ELECTRICAL EQUIPMENT/DEVICES AND RE-INSTALL TO THE ORIGINAL LOCATIONS AND CONNECT TO THE SAME EXISTING ELECTRICAL CIRCUITS OR ZONE CIRCUITS AFTER COMPLETION OF MECHANICAL EQUIPMENT INSTALLATION AND ASSOCIATED DUCT WORK. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST TO SUIT:
   - 8 LIGHT FIXTURES C/W ASSOCIATED MOUNTING COMPONENTS (20 - 2'x4', 10 POT LIGHTS)
   - 1 P.A. SPEAKERS
   - 2 EMERGENCY REMOTE HEADS
   - 1 EMERGENCY BATTERY UNIT
   - 1 OCCUPANCY SENSORS
   - 2 FIRE ALARM DETECTORS (PROVIDE F.A. VERIFICATION AFTER COMPLETION OF WORK)
18. PROVIDE NEW DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER AND CONNECT TO THE CORRESPONDING EXISTING FIRE ALARM ZONE CIRCUIT OF THIS AREA. THE NEW DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE FULLY COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE CONDUIT/WIRING AND ALL ASSOCIATED COMPONENTS TO SUIT. PROVIDE FIRE ALARM VERIFICATION AFTER COMPLETION OF WORK.



KEY PLAN - GROUND FLOOR EAST WING RENOVATION
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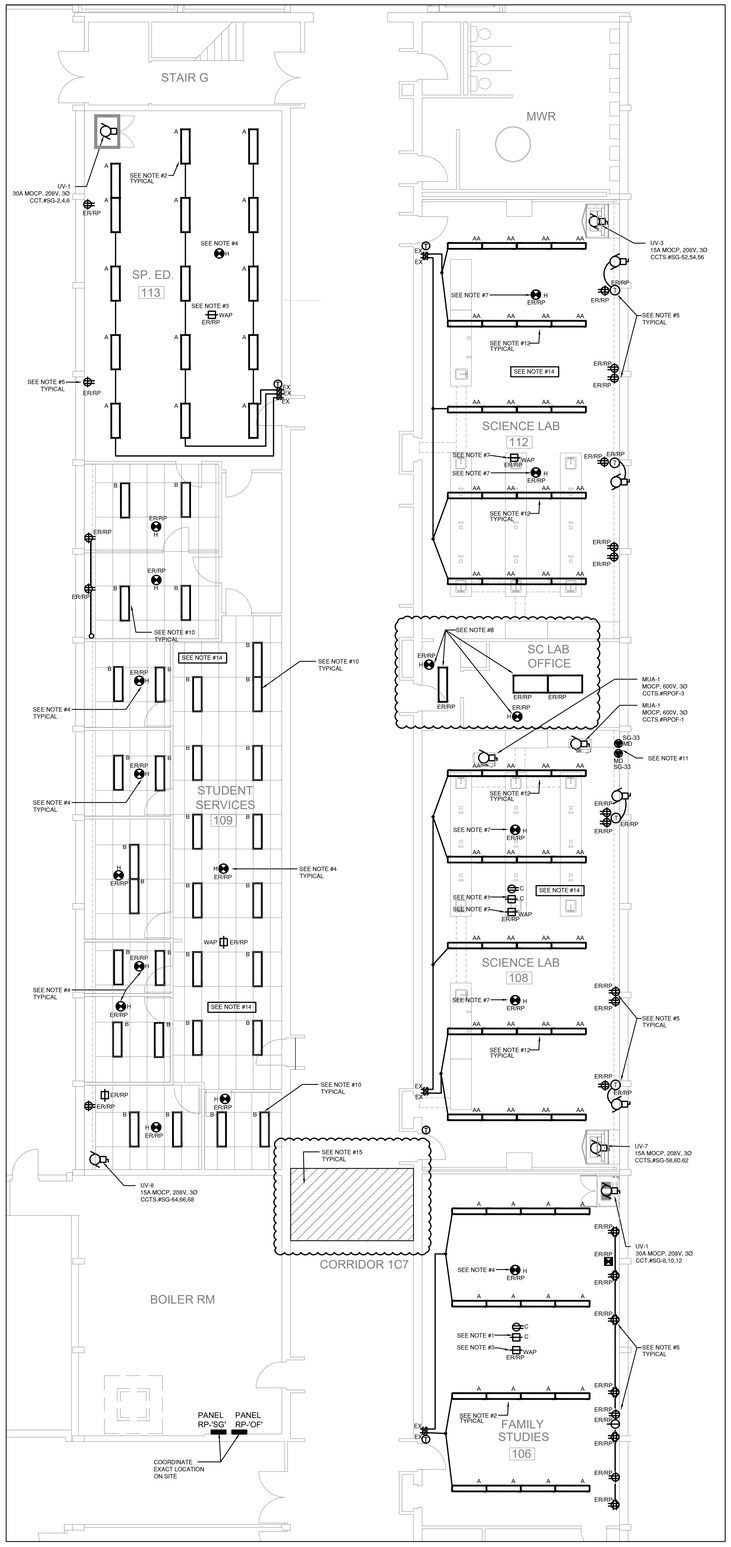
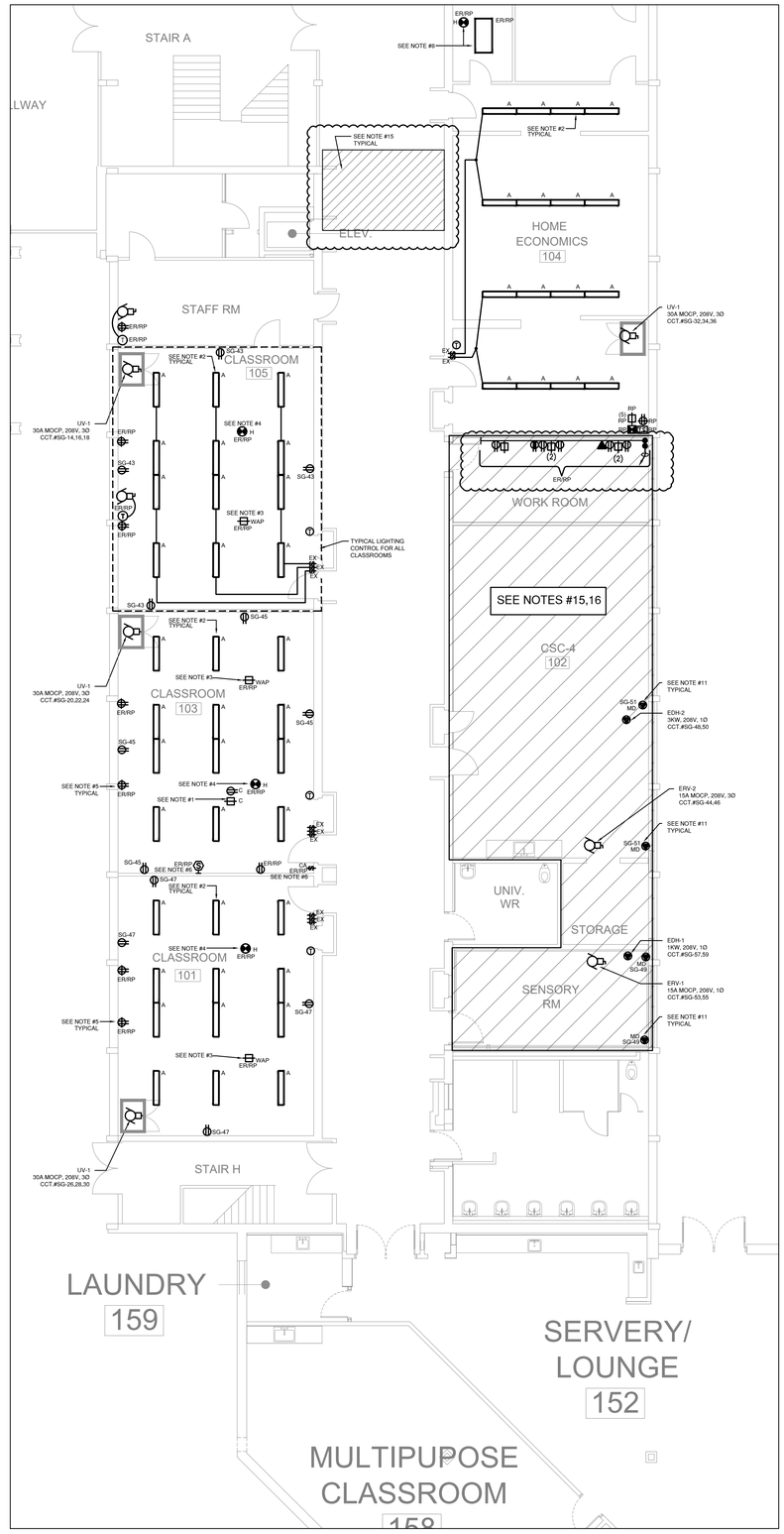
GROUND FLOOR (EAST WING) MODIFICATION LAYOUT

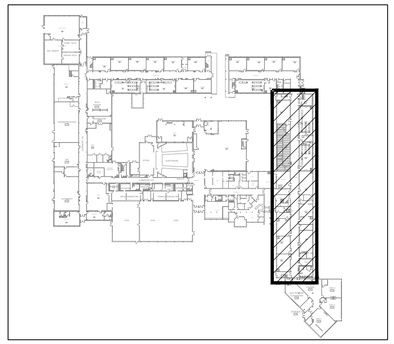
Scale:	1:100	Date:	MAY 2024
Drawn by:	FH	Checked by:	TM
Job No.	23178	Drawing No.	E202



1 E203 GROUND FLOOR (SOUTH WEST WING) MODIFICATION LAYOUT (PART 1/2)
1:100



2 E203 GROUND FLOOR (SOUTH WEST WING) MODIFICATION LAYOUT (PART 2/2)
1:100



KEY PLAN - GROUND FLOOR SOUTH WING RENOVATION

NOTES

1. IN ALL RENOVATED ROOMS/AREAS, EXISTING CEILING MOUNTED PROJECTOR SHALL BE DISCONNECTED AND REMOVED TO SUIT CONSTRUCTION WORK. RE-INSTALL THE PROJECTOR AT THE SAME LOCATION ONCE THE RENOVATION WORK IS COMPLETED IN ROOM/AREA.
2. PROVIDE NEW LED 1X4 SURFACE MOUNTED FIXTURE AND CONNECT TO EXISTING LIGHTING CIRCUIT. REWORK EXISTING WIRING AND PROVIDE NEW SURFACE MOUNTED CONDUIT AND CONNECT LIGHT FIXTURE. RETAIN EXISTING TOGGLE SWITCH CONTROL. EACH SWITCH SHALL CONTROL ROW OF LIGHTING AS SHOWN.
3. IN ALL RENOVATED ROOMS/AREAS, EXISTING WIRELESS ACCESS POINT SHALL BE DISCONNECTED AND REMOVED BY SCHOOLBOARD IT TEAM. THE EXISTING DATA CABLE AND KEYSTONE JACK SHALL BE MADE SAFE TO SUIT DEMOLITION WORK. RE-INSTALL AND TERMINATE EXISTING DATA CABLE AND JACK AT THE SAME LOCATION UPON COMPLETION OF NEW WORK FOR SCHOOLBOARD IT TEAM TO RE-INSTALL THE WIRELESS ACCESS POINT DEVICE.
4. IN ALL RENOVATED ROOMS/AREAS, EXISTING HEAT DETECTOR SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. PROVIDE PROTECTING COVER TO AVOID FALSE ALARMS. REMOVE THE COVERS AT THE END OF CONSTRUCTION FROM ALL ROOMS/AREAS.
5. IN CLASSROOM, EXISTING WALL MOUNTED RECEPTACLES, DATA OUTLET, CALL SWITCH & LIGHT TOGGLE SWITCHES SHALL BE DISCONNECTED AND REMOVED C/W ASSOCIATED CONDUIT AND WIRING TO THE NEAREST JUNCTION BOX AND MAKE SAFE TO SUIT DEMOLITION WORK. RE-INSTALL ALL DEVICES AT THE SAME LOCATION RECESSED INTO THE NEW DRYWALL. PROVIDE ASSOCIATED CONDUIT AND BACKBOX TO SUIT. EXTEND EXISTING WIRING AND DATA CABLES AND TERMINATE AT EACH EXISTING DEVICE LOCATION TO SUIT.
6. EXISTING PA SPEAKER & CLOCK SHALL BE DISCONNECT AND REMOVED TO SUIT DEMOLITION WORK. RE-INSTALL ALL DEVICES AT THE SAME LOCATION TO SUIT NEW WORK. PROVIDE NEW BACK BOX AND EXTEND EXISTING WIRING AND CONNECT TO CLOCK AND PA SPEAKER.
7. IN SCIENCE ROOM #108 & 112, DISCONNECT EXISTING CEILING MOUNTED HEAT DETECTORS, WIRELESS ACCESS POINT TO SUIT CEILING REMOVAL. REINSTALL EXISTING FIRE ALARM HEAT DETECTOR AND WIRELESS ACCESS POINT DATA OUTLET SURFACE MOUNTED UNDERSIDE THE SLAB. PROVIDE NEW CONDUIT AND BACKBOX AND EXTEND EXISTING WIRING AND CONNECT TO SUIT.
8. EXISTING HEAT DETECTOR AND 2X4 LIGHT FIXTURE SHALL BE DISCONNECTED AND REMOVED TO SUIT MECHANICAL DIFFUSER INSTALLATION. RE-INSTALL ALL DEVICES AT THE SAME LOCATION UPON COMPLETION OF MECHANICAL WORK. COORDINATE ALL WORK ON SITE WITH MECHANICAL CONTRACTOR. PROVIDE FIRE ALARM VERIFICATION REPORT.
9. EXISTING HEAT DETECTOR SHALL BE DISCONNECTED AND REMOVED TO SUIT NEW CEILING WORK. PROVIDE NEW CONDUIT AND JUNCTION BOX FOR THE INSTALLATION OF THE EXISTING HEAT DETECTOR AT THE NEW T-BAR CEILING. EXTEND EXISTING FIRE ALARM WIRING AND CONNECT TO THE HEAT DETECTOR. PROVIDE FIRE ALARM VERIFICATION.
10. PROVIDE NEW LED 1X4 RECESS MOUNTED LIGHT FIXTURE AND CONNECT TO EXISTING LIGHTING CIRCUIT. REWORK EXISTING WIRING AND CONNECT NEW LIGHT FIXTURE TO SUIT. PROVIDE NEW CONDUIT, WIRING AND ALL ASSOCIATED COMPONENT TO SUIT.
11. PROVIDE 120V CONNECTION THROUGH CONTROL RELAY PROVIDED BY CONTROL CONTRACTOR AND CONNECT TO MOTORIZED DAMPER. COORDINATE ALL WORK WITH CONTROL CONTRACTOR ON SITE.
12. IN SCIENCE ROOMS 108 & 112, INSTALL NEW LIGHT FIXTURES SUSPENDED AT HEIGHT SUCH THAT LIGHT FIXTURES MOUNTING HEIGHT MATCHES BOTTOM OF LOWEST EXISTING PIPE/DUCT IN THE ROOM/AREA. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT AND ON SITE. REWORK EXISTING LIGHTING CIRCUIT AND PROVIDE ASSOCIATED CONDUIT, WIRING, JUNCTION BOX AND ALL OTHER COMPONENTS TO SUIT. REWORK LIGHTING CONTROL AT THE EXISTING TOGGLE SWITCH AS SHOWN.
13. ALL NEW RECEPTACLE IN THE CLASSROOM SHALL BE COORDINATED WITH ARCHITECT AND OWNER BEFORE INSTALLATION. NEW RECEPTACLE AT THE TEACHING WALL SHALL BE LOCATED AT THE TEACHER'S DESK. CONFIRM EXACT LOCATION ON SITE.
14. IN ALL AREAS WHERE CEILING IS BEING REMOVED, ELECTRICAL CONTRACTOR SHALL REMOVE ALL ABANDONED CONDUIT AND WIRING FOR LIGHTING, POWER, COMMUNICATION AND LOW VOLTAGE WIRING INCLUDING TELEPHONE, DATA, P.A./MUSIC, CABLE TV, SECURITY SYSTEM ETC. ELECTRICAL CONTRACTOR SHALL PROVIDE PROPER SUPPORTS, MOUNTING BRACKETS AND HANGERS FOR ALL REMAINING CONDUIT AND WIRING FOR LIGHTING, POWER, COMMUNICATION AND LOW VOLTAGE WIRING INCLUDING TELEPHONE, DATA, P.A./MUSIC, CABLE TV, SECURITY SYSTEM ETC.
15. IN EXISTING CORRIDOR, WORKROOM, ROOM CSC-4, STORAGE AND SENSORY ROOM, TEMPORARILY DISCONNECT AND REMOVE EXISTING DRYWALL AND T-BAR CEILING MOUNTED ELECTRICAL EQUIPMENT/DEVICES AND RE-INSTALL TO THE ORIGINAL LOCATIONS AND CONNECT TO THE SAME EXISTING ELECTRICAL CIRCUITS OR ZONE CIRCUITS AFTER COMPLETION OF MECHANICAL EQUIPMENT INSTALLATION AND ASSOCIATED DUCT WORK. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST TO SUIT:
   - LIGHT FIXTURES C/W ASSOCIATED MOUNTING COMPONENTS (26- 2'x4', 10 POT LIGHTS)
   - 6 P.A. SPEAKERS
   - 6 EMERGENCY REMOTE HEADS
   - 1 EMERGENCY BATTERY UNIT
   - 4 OCCUPANCY SENSORS
   - 8 FIRE ALARM DETECTORS (PROVIDE F.A. VERIFICATION AFTER COMPLETION OF WORK)
   - 4 WIRELESS ACCESS POINT DEVICES
16. EXISTING CEILING MOUNTED MECHANICAL UNITS (EVAPORATORS) TO REMAIN AND OPERATIONAL
17. DISCONNECT AND REMOVE EXISTING RACEWAY AND ASSOCIATED POWER, AND DATA CABLES TO SUIT ARCHITECURAL AND MECHANICAL WORK. REINSTALL THE RAYCEWAY AND ALL ASSOCIATED COMPONENTS AT THE SAME LOCATION UPON COMPLETION OF ALL WORK. COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR ON SITE.

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Key Plan N.T.S.

Project North True North

No.	Revisions	Date
3	ISSUED FOR ADDENDUM-E1	2024 05 30
2	ISSUED FOR BIDS	2024 05 13
1	ISSUED FOR PERMIT	2024 04 29
No.	Issue	Date

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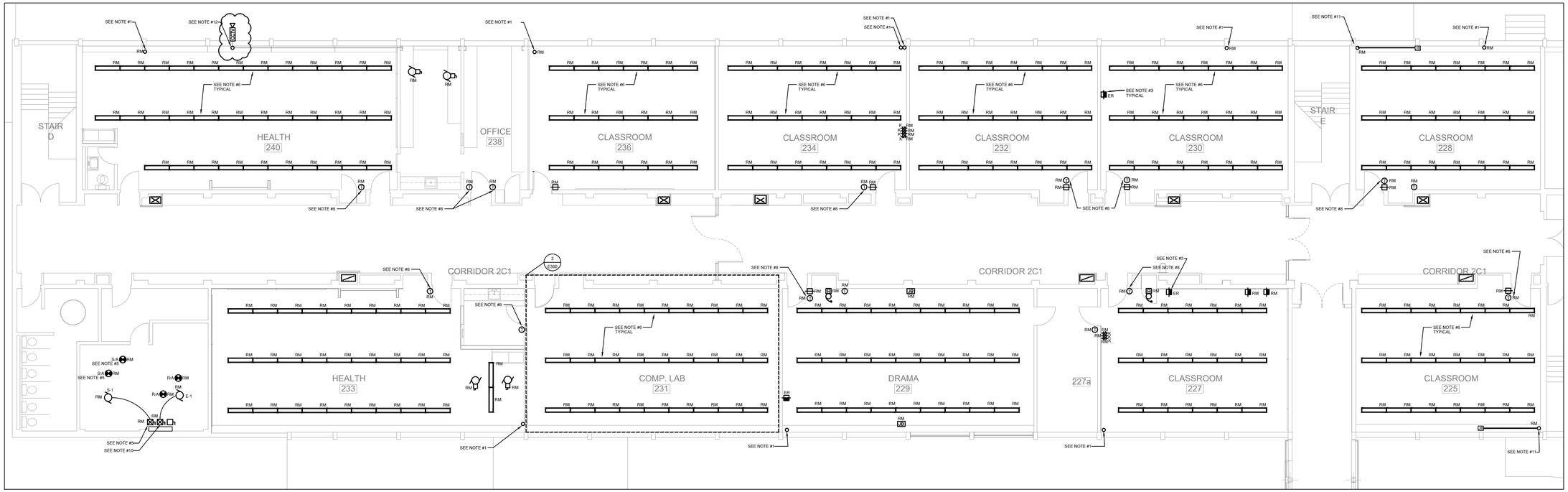
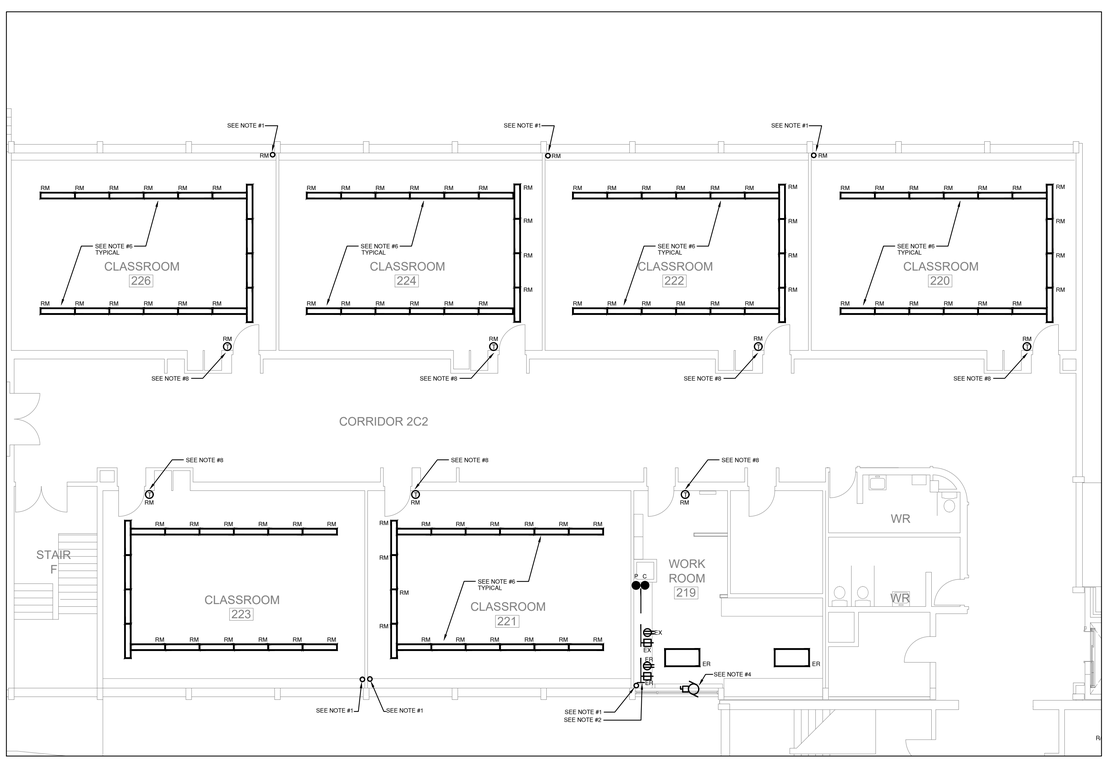
Drawing Title:
GROUND FLOOR (SOUTH WEST WING) MODIFICATION LAYOUT

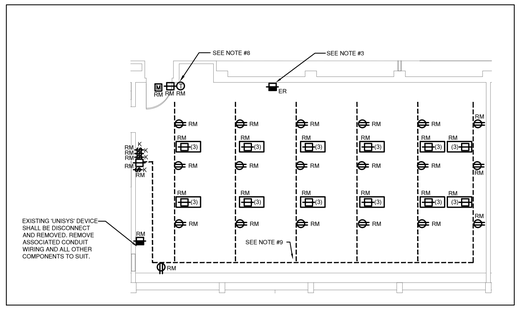
Scale:	1:100	Date:	MAY 2024
Drawn by:	FH	Checked by:	TM
Job No.	23178	Drawing No.	E203



1 / E300 **SECOND FLOOR (EAST WING) DEMOLITION LAYOUT (PART 1/2)**
1:100



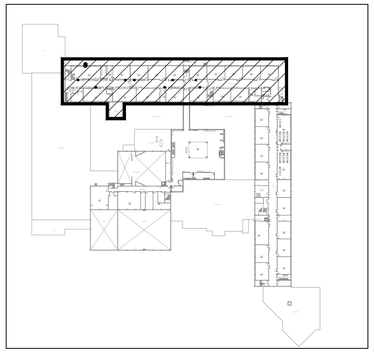
2 / E300 **SECOND FLOOR (EAST WING) DEMOLITION LAYOUT (PART 2/2)**
1:100



3 / E300 **COMPUTER LAB (231) - DEMOLITION LAYOUT**
1:100

NOTES

1. EXISTING SURFACE MOUNTED CONTROL CONDUIT COMPLETE WITH ASSOCIATED WIRING SHALL BE DISCONNECTED AND REMOVED BACK TO SOURCE TO SUIT DEMOLITION OF EXISTING RADIANT HEATER. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR ON SITE.
2. EXISTING SURFACE MOUNTED TWO CELL RACEWAY SHALL BE CUT BACK TO SUIT NEW UNIT VENTILATOR. REFER TO ARCHITECTURAL DRAWING TO CONFIRM THE EXACT LENGTH OF RACEWAY SHALL BE REMOVED. MAKE EXISTING WIRING SAFE AND PROVIDE CONTINUITY OF EXISTING CONDUIT AND WIRING AS REQUIRED FOR EXISTING RACEWAY DEVICES OPERATIONAL.
3. EXISTING AV AUXILIARY OUTLET COMPLETE WITH ASSOCIATED SURFACE MOUNTED RACEWAY SHALL BE DISCONNECTED AND REMOVED TO SUIT REMOVAL OF EXISTING BACK WALL. RETAIN EXISTING RACEWAY, AV WIRING & AV FACE PLATE FOR THE RE-INSTALLATION. REFER TO DRAWING E-202 FOR FURTHER DETAILS.
4. DISCONNECT THE EXISTING AC UNIT AND REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO THE SOURCE.
5. EXISTING SUPPLY AIR HANDLING UNIT SHALL BE DISCONNECTED AND REMOVED C/W ALL ASSOCIATED CONDUIT, WIRING, AND FUSED SWITCH STARTER. DISCONNECT AND REMOVE ASSOCIATED DUCT SMOKE DETECTORS. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. MARK EXISTING FIRE ALARM ZONE TO BE SPARE.
6. EXISTING LIGHT FIXTURES SHALL BE DISCONNECTED AND REMOVED. MAKE EXISTING WIRING SAFE FOR RECONNECTION OF NEW LIGHT FIXTURES IN THE ROOM.
7. EXISTING MECHANICAL FAN, THERMOSTAT COMPLETE WITH ASSOCIATED CONDUIT AND WIRING SHALL BE DISCONNECT AND REMOVED. REMOVE CONDUIT AND WIRING BACK TO SOURCE.
8. EXISTING WALL MOUNTED THERMOSTAT SHALL BE DISCONNECT AND REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
9. EXISTING FLOOR RACEWAY AND ASSOCIATED RECEPTACLES SHALL BE DISCONNECTED AND REMOVED. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
10. EXISTING EXHAUST FANS SHALL BE DISCONNECTED TO SUIT MECHANICAL DEMOLITION WORK. REMOVE ASSOCIATED CONDUIT, WIRING AND FUSED STARTER SWITCH. DISCONNECT AND REMOVE ASSOCIATED DUCT SMOKE DETECTORS. REMOVE ASSOCIATED CONDUITS AND WIRING BACK TO SOURCE. MARK EXISTING FIRE ALARM ZONE TO BE SPARE.
11. EXISTING SURFACE MOUNTED AV RACEWAY SHALL BE REMOVED. RETAINED EXISTING AV WIRING AND MAKE SAFE TO SUIT NEW INSTALLATION WORK. REFER TO DRAWING E-302 & 303 FOR THE EXACT LAYOUT.
12. DISCONNECT EXISTING OUTDOOR SECURITY CAMERA AND REMOVE ASSOCIATED CONDUIT AND WIRING TO THE NEAREST JUNCTION BOX AND MAKE SAFE TO SUIT ABETMENT WORK. PROVIDE NEW CONDUIT AND EXTEND EXISTING WIRING AND RECONNECT TO THE EXISTING OUTDOOR SECURITY CAMERA UPON COMPLETION OF ABETMENT WORK. INCLUDE TESTING AND VERIFICATION TO SUIT.



KEY PLAN - SECOND FLOOR EAST WING RENOVATION
N.T.S.

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N — Project North
N — True North

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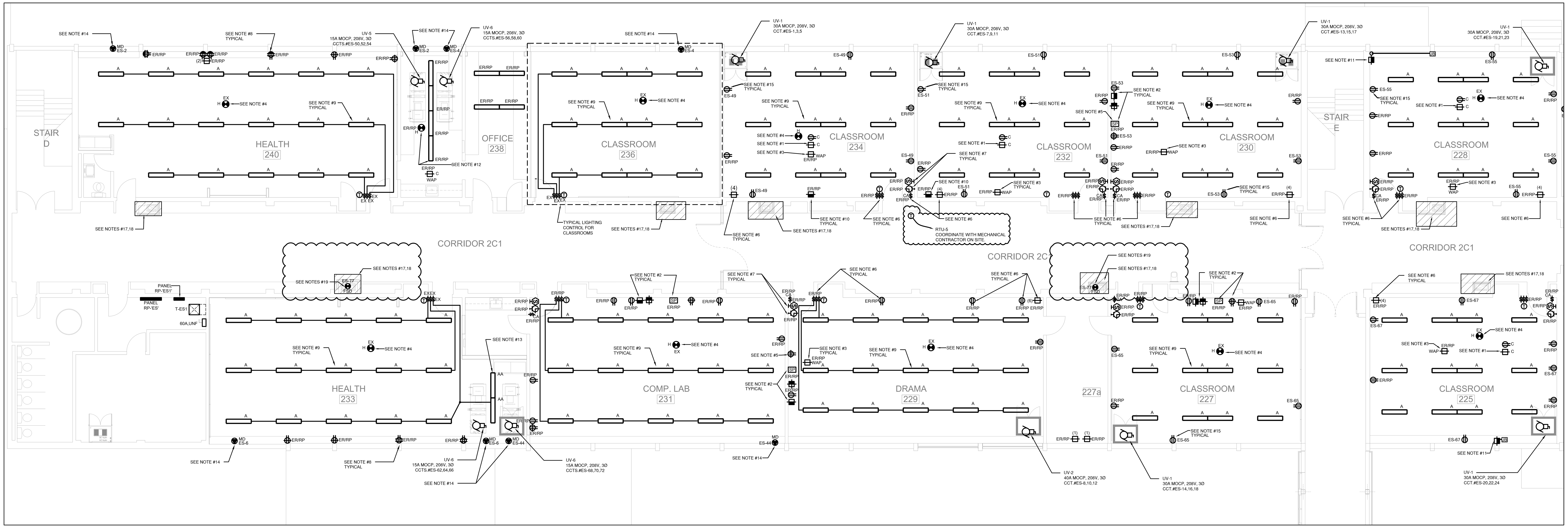
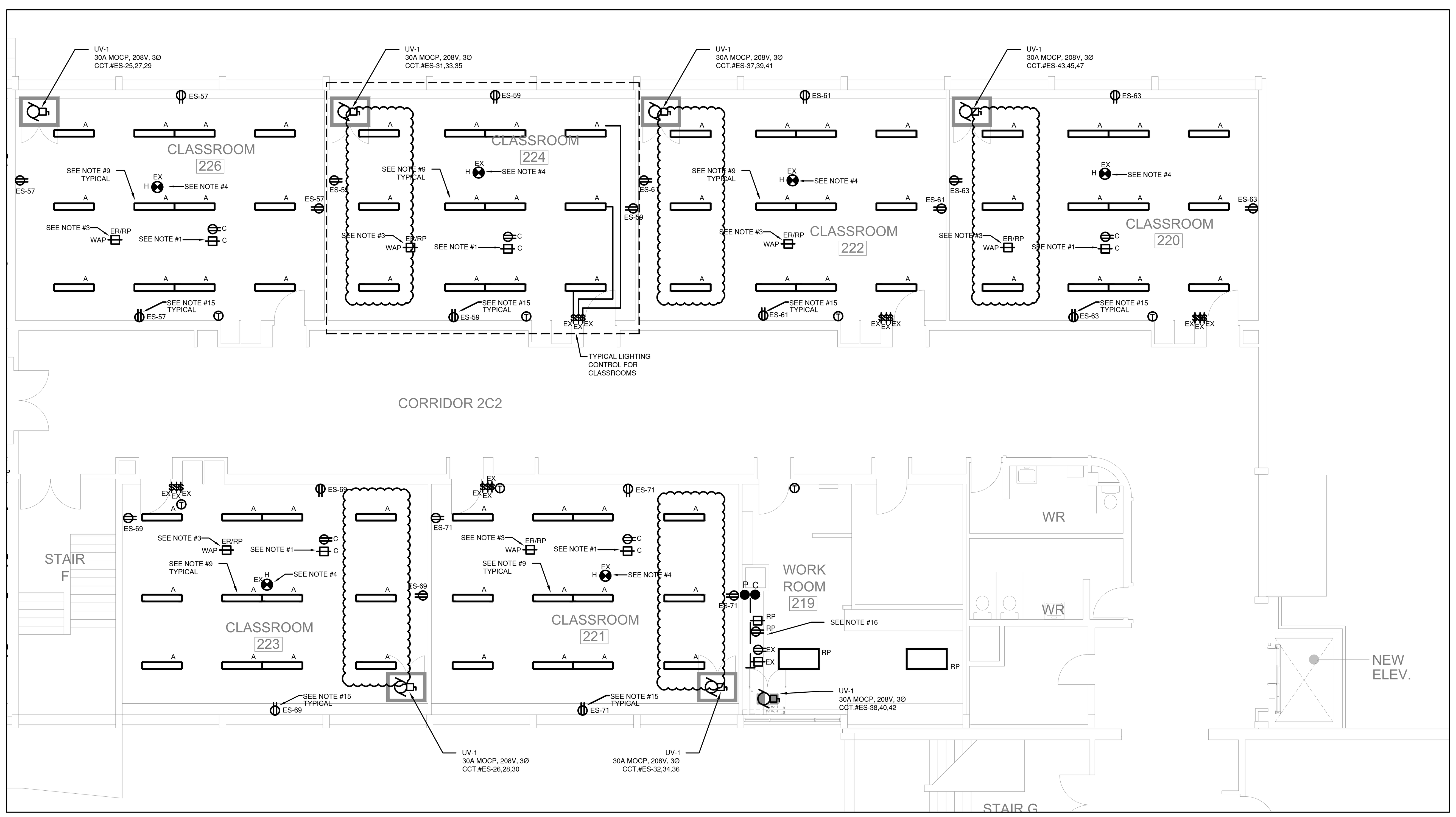
Key Plan N.T.S.

Drawing Title:
SECOND FLOOR (EAST WING) DEMOLITION LAYOUT

Scale:	1:100	Date:	MAY 2024
Drawn by:	FH	Checked by:	TM
Job No.	23178	Drawing No.	E300



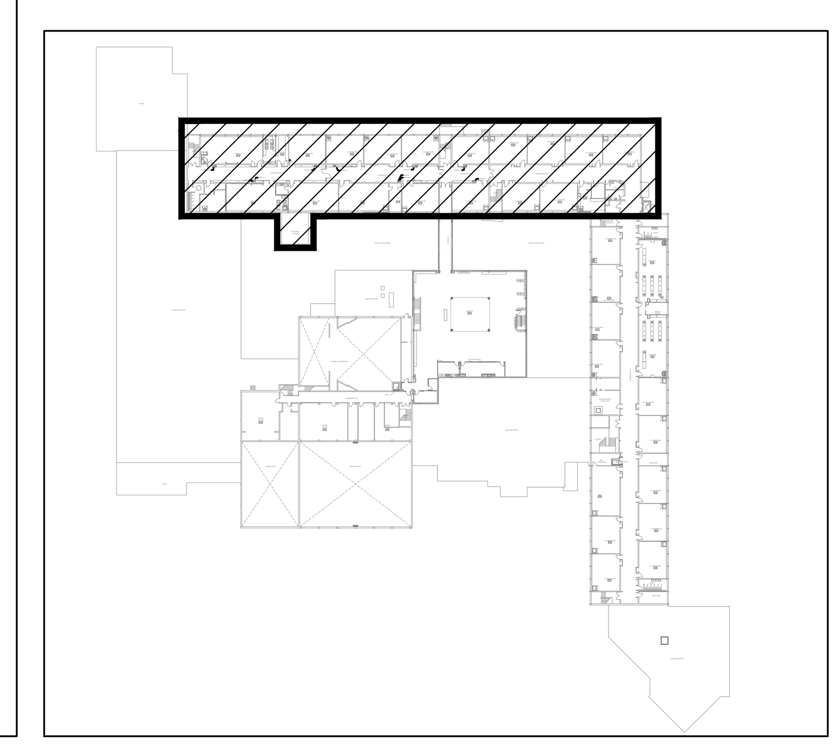
1 E302 SECOND FLOOR (EAST WING) MODIFICATION LAYOUT (PART 1/2)
1:100



2 E302 SECOND FLOOR (EAST WING) MODIFICATION LAYOUT (PART 2/2)
1:100

NOTES

1. IN ALL RENOVATED ROOMS/AREAS, EXISTING CEILING MOUNTED PROJECTOR SHALL BE DISCONNECTED AND REMOVED TO SUIT CONSTRUCTION WORK. RE-INSTALL THE PROJECTOR AT THE SAME LOCATION ONCE THE RENOVATION WORK IS COMPLETED IN ROOM/AREA.
2. EXISTING SHORT THROW PROJECTOR SHALL BE DISCONNECTED AND REMOVED TO SUIT DEMOLITION WORK AND RE-INSTALLED AT THE SAME LOCATION AT THE NEW DRYWALL. PROVIDE ALL REQUIRED MOUNTING SUPPORT AS REQUIRED FOR PROPER INSTALLATION. PROVIDE NEW AV OUTLET AND ASSOCIATED NEW CONDUIT, BACKBOX, ETC. TO SUIT. RE-USE EXISTING SURFACE MOUNTED RACEWAY AND FIELD CUT TO SUIT AND SHALL BE INSTALLED BELOW PROJECTOR AND TERMINATED AT THE NEW AV OUTLET BOX. RE-PULL EXISTING AV WIRING FROM SHORT THROW PROJECTOR THROUGH RACEWAY AND NEW AV OUTLET AT HIGH LEVEL, TERMINATE THE AV CABLING AT THE NEW AV OUTLET BELOW TEACHER'S DESK WITH EXISTING AV FACEPLATE OBTAINED FROM DEMOLITION. REFER TO DETAIL#1 ON DRAWING E-001 FOR ALL REQUIREMENT.
3. IN ALL RENOVATED ROOMS/AREAS, EXISTING WIRELESS ACCESS POINT SHALL BE DISCONNECTED AND REMOVED BY SCHOOLBOARD IT TEAM. THE EXISTING DATA CABLE AND KEYSTONE JACK SHALL BE MADE SAFE TO SUIT DEMOLITION WORK. RE-INSTALL AND TERMINATE EXISTING DATA CABLE AND JACK AT THE SAME LOCATION UPON COMPLETION OF NEW WORK FOR SCHOOLBOARD IT TEAM TO RE-INSTALL THE WIRELESS ACCESS POINT DEVICE.
4. IN ALL RENOVATED ROOMS/AREAS, EXISTING HEAT DETECTOR SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. PROVIDE PROTECTING COVER TO AVOID FALSE ALARMS. REMOVE THE COVERS AT THE END OF CONSTRUCTION FROM ALL ROOMS/AREAS.
5. PROVIDE NEW RECEPTACLE AND CONNECT TO THE NEAREST EXISTING RECEPTACLE CIRCUIT. PROVIDE ASSOCIATED CONDUIT AND WIRING TO SUIT.
6. IN CLASSROOM, EXISTING WALL MOUNTED RECEPTACLES, DATA OUTLET, CALL SWITCH & LIGHT TOGGLE SWITCHES SHALL BE DISCONNECTED AND REMOVED C/W ASSOCIATED CONDUIT AND WIRING TO THE NEAREST JUNCTION BOX AND MAKE SAFE TO SUIT DEMOLITION WORK. RE-INSTALL ALL DEVICES AT THE SAME LOCATION RECESSED INTO THE NEW DRYWALL. PROVIDE ASSOCIATED CONDUIT AND BACKBOX TO SUIT. EXTEND EXISTING WIRING AND DATA CABLES AND TERMINATE AT EACH EXISTING DEVICE LOCATION TO SUIT.
7. EXISTING PA SPEAKER & CLOCK SHALL BE DISCONNECT AND REMOVED TO SUIT DEMOLITION WORK. RE-INSTALL ALL DEVICES AT THE SAME LOCATION TO SUIT NEW WORK. PROVIDE NEW BACK BOX AND EXTEND EXISTING WIRING AND CONNECT TO CLOCK AND PA SPEAKER.
8. IN HEALTH #233 & 240, EXISTING SURFACE WALL MOUNTED RECEPTACLES, DATA OUTLETS AND EXHAUST FAN CONTROLLER LOCATED ON THE COLUMN EXTERIOR WALL AND ASSOCIATED CONDUIT/RACEWAY SHALL BE TEMPORARY DISCONNECTED, REMOVED AND ASSOCIATED WIRES SHALL BE PULLED BACK TO THE NEAREST EXISTING RECEPTACLE/JUNCTION BOX AND MADE SAFE TO SUIT ABATEMENT WORK. RE-INSTALL THE RECEPTACLE, DATA OUTLETS AND EXHAUST FAN CONTROLLER AT THE SAME LOCATION. PROVIDE NEW CONDUIT AND EXTEND EXISTING WIRING & DATA CABLES TO SUIT. PROVIDE NEW WIRING AND DATA CABLES AS REQUIRED.
9. PROVIDE NEW LED 1X4 SURFACE MOUNTED LIGHT FIXTURE AS SPECIFIED AND CONNECT TO EXISTING LIGHTING CIRCUIT AND LIGHT SWITCHES/ZONES OF THIS ROOM/AREA. EXTEND EXISTING CONDUIT/WIRING AND PROVIDE NEW CONDUIT AND WIRING AS REQUIRED AND RE-CONNECT NEW LIGHT FIXTURES AS SHOWN. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR ON SITE.
10. EXISTING AV OUTLET AND ASSOCIATED JUNCTION BOX SHALL BE DISCONNECTED AND REMOVED TO SUIT DEMOLITION WORK. RETAIN EXISTING AV WIRING AND AV FACEPLATE. PROVIDE NEW CONDUIT, BACKBOX AND AV AUXILARY OUTLET, ETC. AND INSTALL AT THE SAME LOCATION. RE-PULL EXISTING AV WIRING AND TERMINATE AT THE NEW AV OUTLET WITH EXISTING AV FACEPLATE OBTAINED FROM DEMOLITION WORK.
11. PROVIDE NEW AV AUXILIARY OUTLET AND ASSOCIATED CONDUIT TO RE-PULL EXISTING AV WIRING AND TERMINATE AT THE NEW AV AUXILARY OUTLET. PROVIDE NEW AV FACEPLATE, INCLUDING BUT NOT LIMITED TO USB-C, HDMI, VGA, VIDEO & AUDIO PORT. REFER TO DETAIL #2 ON DRAWING E-001. COORDINATE ALL WORK ON SITE.
12. EXISTING SMOKE/HEAT DETECTOR AND LIGHT FIXTURES SHALL BE DISCONNECTED AND REMOVED TO SUIT MECHANICAL EQUIPMENT INSTALLATION. RE-INSTALL ALL DEVICES AT THE SAME LOCATION UPON COMPLETION OF MECHANICAL WORK. COORDINATE ALL WORK ON SITE WITH MECHANICAL CONTRACTOR. PROVIDE FIRE ALARM VERIFICATION REPORT.
13. FIXTURE SHALL BE SUSPENDED TO THE UNDERSIDE OF HVAC DUCT. CONFIRM EXACT MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR ON SITE.
14. PROVIDE 120V CONNECTION THROUGH CONTROL RELAY PROVIDED BY CONTROL CONTRACTOR AND CONNECT TO MOTORIZED DAMPER. COORDINATE ALL WORK WITH CONTROL CONTRACTOR ON SITE.
15. EXACT LOCATION OF ALL NEW RECEPTACLES IN ALL CLASSROOMS/AREAS SHALL BE COORDINATED WITH ARCHITECT AND OWNER BEFORE INSTALLATION. NEW RECEPTACLE AT THE TEACHING WALL SHALL BE LOCATED AT THE TEACHER'S DESK. CONFIRM EXACT LOCATION ON SITE.
16. EXISTING DESK AND MILLWORK WILL BE CUT BACK TO SUIT NEW UV UNIT INSTALLATION. ADJUST EXISTING SURFACE MOUNTED RACEWAY LENGTH TO SUIT ARCHITECTURAL MILLWORK INSTALLATION. RELOCATE EXISTING RECEPTACLES AND DATA OUTLETS ON RACEWAY AS SHOWN. COORDINATE ALL WORK ON SITE.
17. IN THIS AREA RELOCATE EXISTING RECEPTACLES WHICH ARE IN CONFLICT WITH NEW MECHANICAL DUCT SHAFT. COORDINATE EXACT LOCATION OF RECEPTACLES WITH MECHANICAL SHAFT LOCATION AND ON SITE. ADJUST ALL COMPONENTS TO SUIT.
18. IN THIS AREA, RE-ROUTE EXISTING CONDUIT/WIRING TO ACCOMMODATE NEW MECHANICAL DUCT SHAFT INSTALLATION. INCLUDE 60' CONDUIT/WIRING FOR EACH OF THE FOLLOWING SYSTEMS/CIRCUITS:
   - FIRE ALARM SYSTEM
   - SECURITY SYSTEM
   - P.A./TELEPHONE SYSTEM
   - CCTV SYSTEM
   - FIVE 1", FIVE 2" FEEDER CONDUIT/WIRING FOR 120/208V CIRCUITS
   - FIVE 1/2" CONDUITS/WIRING FOR 120/208V CIRCUITS
19. PROVIDE NEW DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER AND CONNECT TO THE CORRESPONDING EXISTING FIRE ALARM ZONE CIRCUIT OF THIS AREA. THE NEW DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE FULLY COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE CONDUIT/WIRING AND ALL ASSOCIATED COMPONENTS TO SUIT. PROVIDE FIRE ALARM VERIFICATION AFTER COMPLETION OF WORK.



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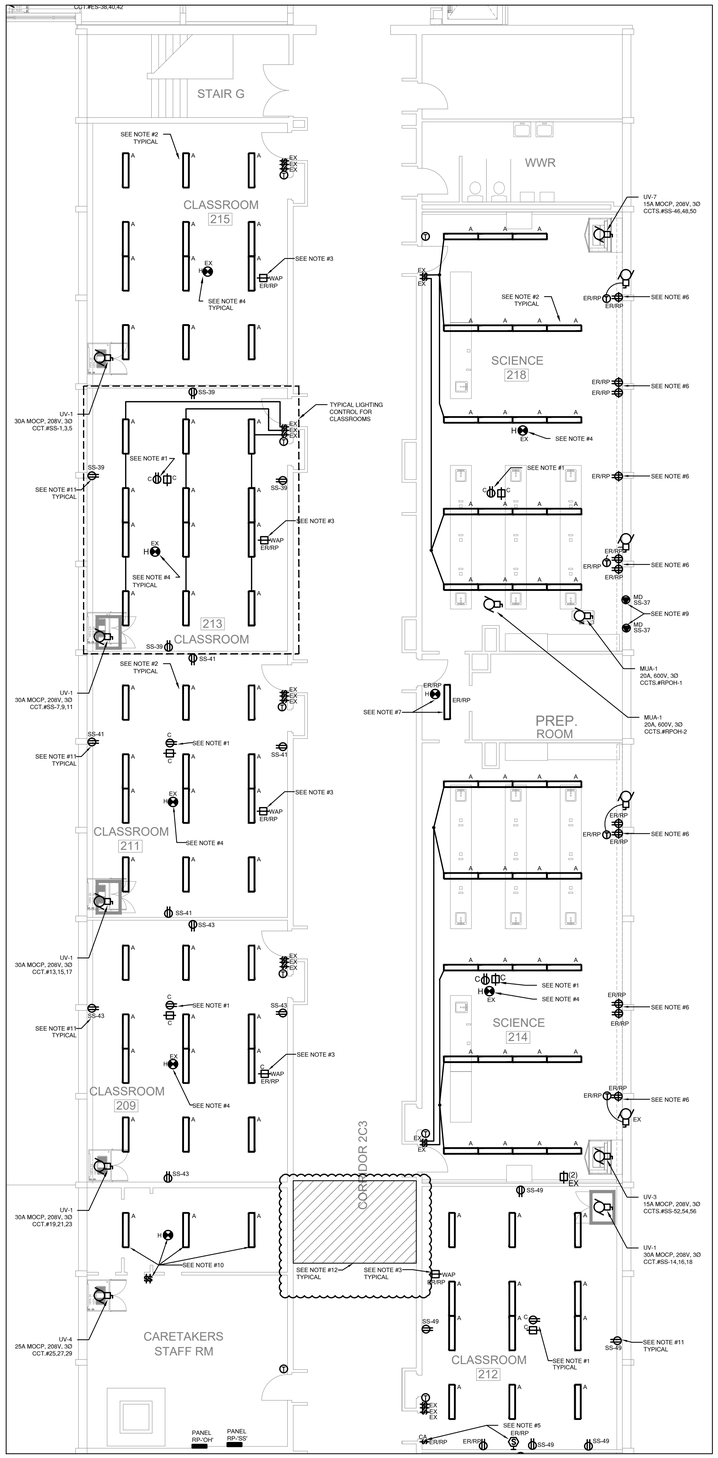
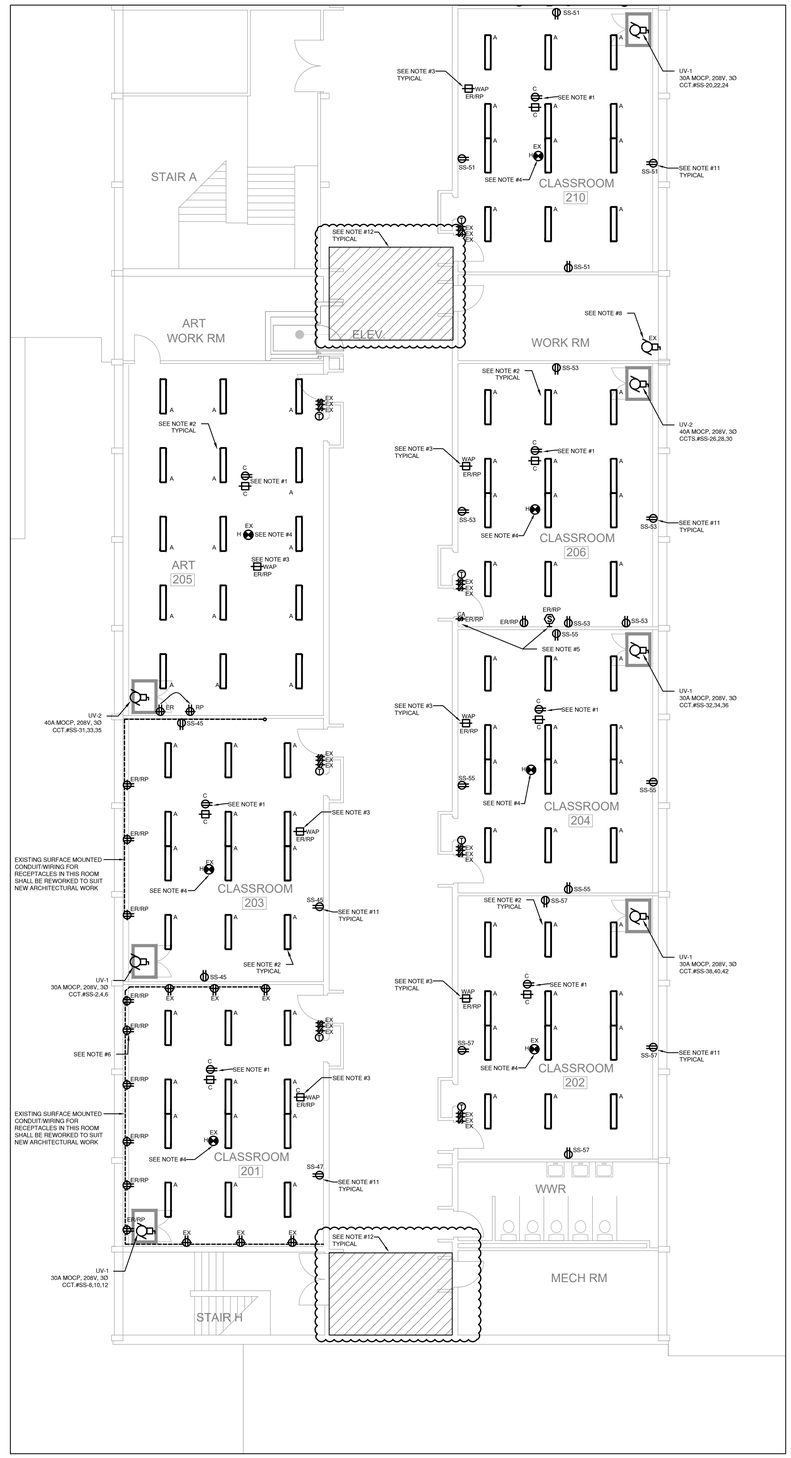
Drawing Title:
SECOND FLOOR (EAST WING) MODIFICATION LAYOUT

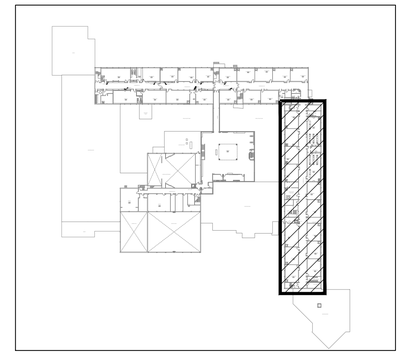
Scale:	1:100	Date:	MAY 2024
Drawn by:	FH	Checked by:	TM
Job No.	23178	Drawing No.	E302



1 E303 **SECOND FLOOR (SOUTH WING) MODIFICATION LAYOUT (PART 1/2)**
1:100



2 E303 **SECOND FLOOR (SOUTH WING) MODIFICATION LAYOUT (PART 2/2)**
1:100



KEY PLAN - SECOND FLOOR SOUTH WING RENOVATION
N.T.S.

NOTES

1. IN ALL RENOVATED ROOMS/AREAS, EXISTING CEILING MOUNTED PROJECTOR SHALL BE DISCONNECTED AND REMOVED TO SUIT CONSTRUCTION WORK. RE-INSTALL THE PROJECTOR AT THE SAME LOCATION ONCE THE RENOVATION WORK IS COMPLETED IN ROOM/AREA.
2. PROVIDE NEW LED 1X4 SURFACE MOUNTED LIGHT FIXTURE AS SPECIFIED AND CONNECT TO EXISTING LIGHTING CIRCUIT AND LIGHT SWITCHES/ZONES OF THIS ROOM/AREA. EXTEND EXISTING CONDUIT/WIRING AND PROVIDE NEW CONDUIT AND WIRING AS REQUIRED AND RE-CONNECT NEW LIGHT FIXTURES AS SHOWN.
3. IN ALL RENOVATED ROOMS/AREAS, EXISTING WIRELESS ACCESS POINT SHALL BE DISCONNECTED AND REMOVED BY SCHOOLBOARD IT TEAM. THE EXISTING DATA CABLE AND KEYSTONE JACK SHALL BE MADE SAFE TO SUIT DEMOLITION WORK. RE-INSTALL AND TERMINATE EXISTING DATA CABLE AND JACK AT THE SAME LOCATION UPON COMPLETION OF NEW WORK FOR SCHOOLBOARD IT TEAM TO RE-INSTALL THE WIRELESS ACCESS POINT DEVICE.
4. IN ALL RENOVATED ROOMS/AREAS, EXISTING HEAT DETECTOR SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. PROVIDE PROTECTING COVER TO AVOID FALSE ALARMS. REMOVE THE COVERS AT THE END OF CONSTRUCTION FROM ALL ROOMS/AREAS.
5. EXISTING PA SPEAKER & CLOCK SHALL BE DISCONNECT AND REMOVED TO SUIT DEMOLITION WORK. RE-INSTALL ALL DEVICES AT THE SAME LOCATION TO SUIT NEW WORK. PROVIDE NEW BACK BOX AND EXTEND EXISTING WIRING AND CONNECT TO CLOCK AND PA SPEAKER.
6. IN SCIENCE #214 & 218, EXISTING SURFACE WALL MOUNTED RECEPTACLES, DATA OUTLETS AND EXHAUST FAN CONTROLLER LOCATED ON THE COLUMN EXTERIOR WALL, AND ASSOCIATED CONDUIT/RACEWAY SHALL BE TEMPORARY DISCONNECTED, REMOVED AND ASSOCIATED WIRES SHALL BE PULLED BACK TO THE NEAREST EXISTING RECEPTACLE/JUNCTION BOX AND MADE SAFE TO SUIT ABATEMENT WORK. RE-INSTALL THE RECEPTACLE, DATA OUTLETS AND EXHAUST FAN CONTROLLER AT THE SAME LOCATION. PROVIDE NEW CONDUIT AND EXTEND EXISTING WIRING & DATA CABLES TO SUIT. PROVIDE NEW WIRING AND DATA CABLES AS REQUIRED.
7. EXISTING HEAT DETECTOR AND LIGHT FIXTURE SHALL BE DISCONNECTED AND REMOVED TO SUIT MECHANICAL DIFFUSER INSTALLATION. RE-INSTALL ALL DEVICES AT THE SAME LOCATION UPON COMPLETION OF MECHANICAL WORK. COORDINATE ALL WORK ON SITE WITH MECHANICAL CONTRACTOR. PROVIDE FIRE ALARM VERIFICATION REPORT.
8. REWORK EXISTING CONDUIT AND WIRING TO THE EXISTING AC UNIT TO SUIT NEW DUCT INSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR ON SITE. PROVIDE ALL NECESSARY CONDUIT/WIRING TO SUIT.
9. PROVIDE 120V CONNECTION THROUGH CONTROL RELAY PROVIDED BY CONTROL CONTRACTOR AND CONNECT TO MOTORIZED DAMPER. COORDINATE ALL WORK WITH CONTROL CONTRACTOR ON SITE.
10. PROVIDE NEW TOGGLE LIGHT SWITCH, LED LIGHT FIXTURE AND HEAT DETECTOR AS SHOWN. CONNECT NEW LIGHTING TO NEAREST EXISTING LIGHTING CIRCUIT TO SUIT. CONNECT NEW HEAT DETECTOR TO THE NEAREST HEAT DETECTOR CIRCUIT TO SUIT. PROVIDE ASSOCIATED CONDUIT, WIRING AND FIRE ALARM VERIFICATION TO SUIT.
11. EXACT LOCATION OF ALL NEW RECEPTACLES IN ALL CLASSROOMS/AREAS SHALL BE COORDINATED WITH ARCHITECT AND OWNER BEFORE WALL INSTALLATION. NEW RECEPTACLE AT THE TEACHING WALL SHALL BE LOCATED AT THE TEACHER'S DESK. COORDINATE LOCATION ON SITE.
12. IN EXISTING CORRIDOR, TEMPORARILY DISCONNECT AND REMOVE EXISTING DRYWALL AND T-BAR CEILING MOUNTED ELECTRICAL EQUIPMENT/DEVICES AND RE-INSTALL TO THE ORIGINAL LOCATIONS AND CONNECT TO THE SAME EXISTING ELECTRICAL CIRCUITS OR ZONE CIRCUITS AFTER COMPLETION OF MECHANICAL EQUIPMENT INSTALLATION AND ASSOCIATED DUCT WORK. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST TO SUIT:
   - LIGHT FIXTURES C/W ASSOCIATED MOUNTING COMPONENTS (12 - 2'x4', 6 POT LIGHTS)
   - 4 P.A. SPEAKERS
   - 4 EMERGENCY REMOTE HEADS
   - 1 EMERGENCY BATTERY UNIT
   - 2 OCCUPANCY SENSORS
   - 4 FIRE ALARM DETECTORS (PROVIDE F.A. VERIFICATION AFTER COMPLETION OF WORK)
   - 4 WIRELESS ACCESS POINT DEVICES

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Key Plan N.T.S.

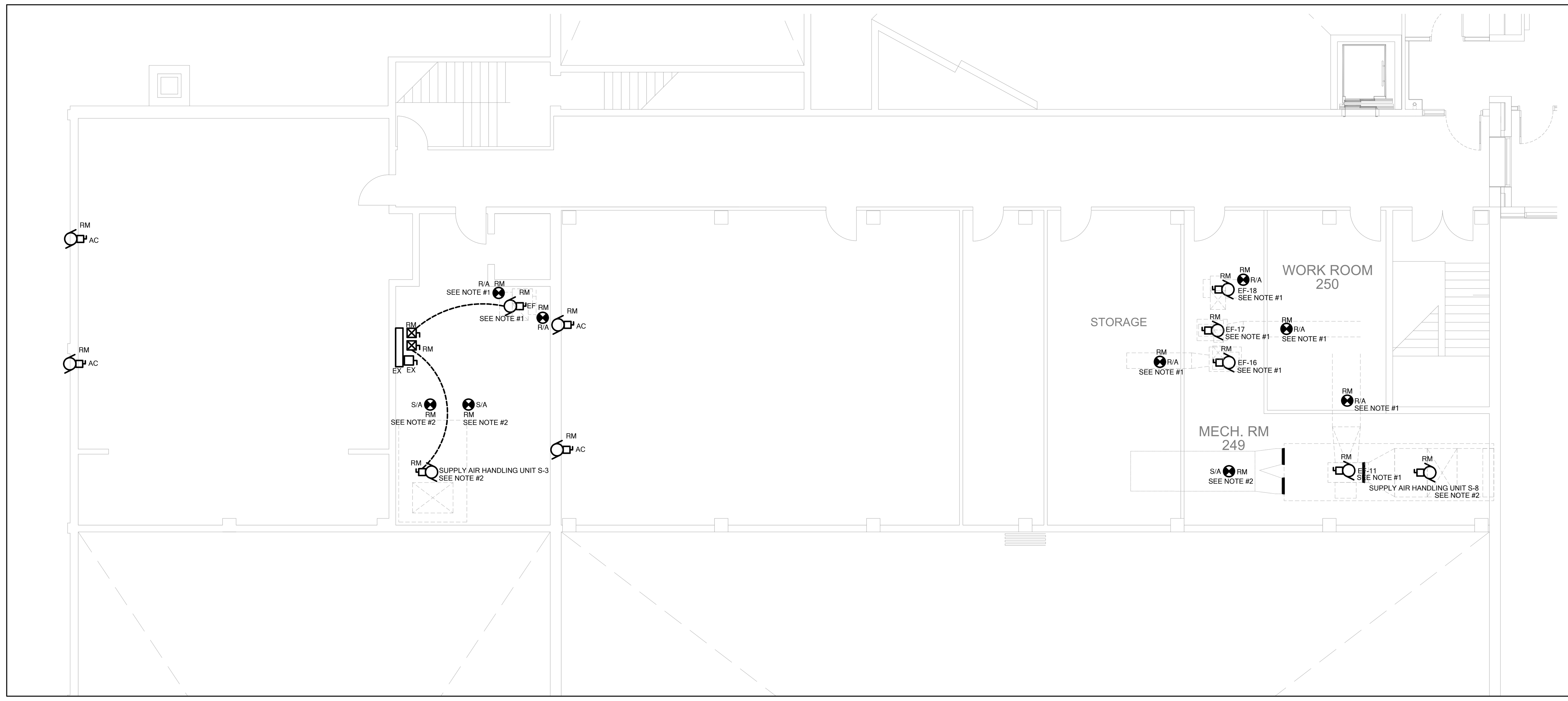
Project North — True North

No.	Revisions	Date
3	ISSUED FOR ADDENDUM-E1	2024 05 30
2	ISSUED FOR BIDS	2024 05 13
1	ISSUED FOR PERMIT	2024 04 29
No.	Issue	Date

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Drawing Title:
SECOND FLOOR (SOUTH WING) MODIFICATION LAYOUT

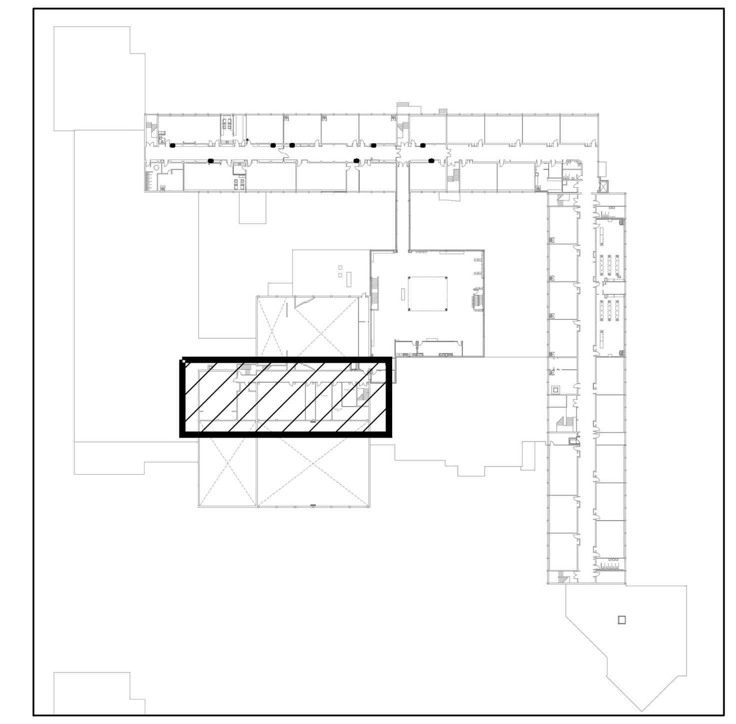
Scale:	1:100	Date:	MAY 2024
Drawn by:	FH	Checked by:	TM
Job No.	23178	Drawing No.	E303



NOTES

1. EXISTING EXHAUST FANS SHALL BE DISCONNECTED TO SUIT MECHANICAL DEMOLITION WORK. REMOVE ASSOCIATED CONDUIT, WIRING AND FUSED STARTER SWITCH. DISCONNECT AND REMOVE ASSOCIATED DUCT SMOKE DETECTORS. REMOVE ASSOCIATED CONDUITS AND WIRING BACK TO SOURCE. MAKE THE EXISTING FIRE ALARM ZONE TO BE SPARE.
2. EXISTING SUPPLY AIR HANDLING UNIT SHALL BE DISCONNECTED AND REMOVED C/W ALL ASSOCIATED CONDUIT, WIRING, AND FUSED SWITCH STARTER. DISCONNECT AND REMOVE ASSOCIATED DUCT SMOKE DETECTORS. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. MARK EXISTING FIRE ALARM ZONE TO BE SPARE.

1 / E304 — SECOND FLOOR (WEST WING) DEMOLITION LAYOUT
1:100



KEY PLAN - SECOND FLOOR WEST WING RENOVATION
N.T.S.

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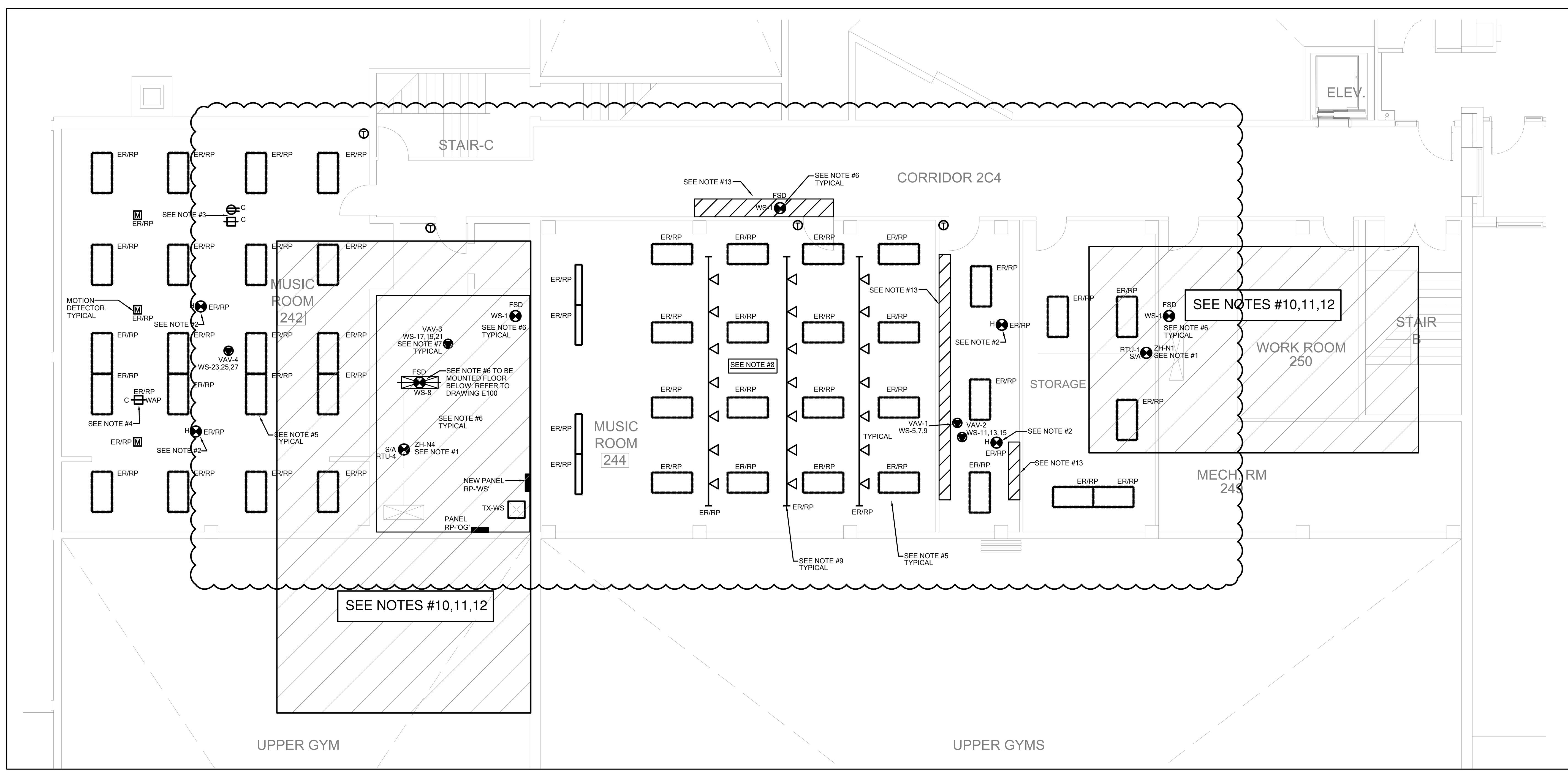

NOTES

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF DUCT SMOKE DETECTOR(S) MOUNTED ON SUPPLY AIR DUCT WITH MECHANICAL CONTRACTOR TO AVOID FALSE FIRE ALARMS.
2. EXISTING HEAT DETECTOR SHALL BE DISCONNECTED AND REMOVED TO SUIT MECHANICAL DEMOLITION WORK. RE-INSTALL THE DEVICE AT THE SAME LOCATION, PROVIDE FIRE ALARM VERIFICATION TEST AFTER COMPLETION OF WORK.
3. EXISTING CEILING MOUNTED PROJECTOR SHALL BE DISCONNECTED AND REMOVED TO SUIT CONSTRUCTION WORK. RE-INSTALL THE PROJECTOR AT THE SAME LOCATION ONCE THE RENOVATION WORK IS COMPLETED IN THIS ROOM.
4. EXISTING WIRELESS ACCESS POINT SHALL BE DISCONNECTED AND REMOVED BY SCHOOLBOARD IT TEAM. THE EXISTING DATA CABLE AND KEYSTONE JACK SHALL BE MADE SAFE TO SUIT DEMOLITION WORK. RE-INSTALL AND TERMINATE EXISTING DATA CABLE AND JACK AT THE SAME LOCATION UPON COMPLETION OF NEW WORK FOR SCHOOLBOARD IT TEAM TO RE-INSTALL THE WIRELESS ACCESS POINT DEVICE.
5. EXISTING LIGHT FIXTURE SHALL BE DISCONNECTED TO SUIT MECHANICAL HAVC WORK. MAKE SAFE OF EXISTING WIRING. RE-INSTALLED EXISTING FIXTURE AT THE SAME LOCATION AND RECONNECT TO EXISTING LIGHTING CIRCUIT UPON COMPLETION OF HVAC WORK.
6. PROVIDE NEW DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER AND CONNECT TO THE CORRESPONDING EXISTING FIRE ALARM ZONE CIRCUIT OF THIS AREA. THE NEW DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE FULLY COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE CONDUIT/WIRING AND ALL ASSOCIATED COMPONENTS TO SUIT. PROVIDE FIRE ALARM VERIFICATION AFTER COMPLETION OF WORK.
7. COORDINATE WITH MECHANICAL CONTRACTOR FOR THE POWER CONNECTION REQUIREMENT TO ALL VAV BOX.
8. IN MUSIC ROOM #244, DISCONNECT AND REMOVE EXISTING LIGHTING, THEATRICAL LIGHTING SYSTEM (INCLUDING SUSPENDED PIPES AND SUPPORTS, C-CLAMPS, LIGHT FIXTURES, DMX AND ASSOCIATED WIRING ETC), EMERGENCY REMOTE HEAD AND ALL ASSOCIATED COMPONENT TO SUIT INSTALLATION OF NEW MECHANICAL DUCT WORK. RE-INSTALL ALL EXISTING DEVICES AT THE SAME LOCATION, ALLOW FOR MOUNTING EXISTING LIGHT FIXTURES UNDER THE NEW HVAC DUCT, ADJUST LENGTH OF THEATRICAL LIGHTING PIPES TO SUIT NEW HVAC DUCT. REWORK EXISTING CONDUIT & WIRING, RE-CONNECT TO ALL EXISTING DEVICES AND PROVIDE ALL ASSOCIATED COMPONENTS TO SUIT.
9. APPROXIMATE LOCATION OF EXISTING THEATRICAL LIGHTING, HANGING PIPES, CLAMPS AND LIGHT FIXTURES. COORDINATE AND CONFIRM EXACT LOCATION, HVAC DUCT INTERFERENCE AND ALL WORK ON SITE AS DESCRIBED IN NOTE #8
10. IN THIS AREA WHERE CEILING IS BEING REMOVED, ELECTRICAL CONTRACTOR SHALL REMOVE ALL ABANDONED CONDUIT AND WIRING FOR LIGHTING, POWER, COMMUNICATION AND LOW VOLTAGE WIRING INCLUDING TELEPHONE, DATA, P.A./MUSIC, CABLE TV, SECURITY SYSTEM ETC. ELECTRICAL CONTRACTOR SHALL PROVIDE PROPER SUPPORTS, MOUNTING BRACKETS AND HANGERS FOR ALL REMAINING CONDUIT AND WIRING FOR LIGHTING, POWER, COMMUNICATION AND LOW VOLTAGE WIRING INCLUDING TELEPHONE, DATA, P.A./MUSIC, CABLE TV, SECURITY SYSTEM ETC.
11. IN THIS AREA, RE-ROUTE EXISTING CONDUIT/WIRING TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL UNIT, ASSOCIATED MECHANICAL DUCT OPENINGS AND STRUCTURAL BEAMS/COMPONENTS. INCLUDE 60' CONDUIT/WIRING FOR EACH OF THE FOLLOWING SYSTEMS/CIRCUITS:
    - FIRE ALARM SYSTEM
    - SECURITY SYSTEM
    - P.A./TELEPHONE SYSTEM
    - CCTV SYSTEM
    - FIVE 1", FIVE 2" FEEDER CONDUIT/WIRING FOR 120/208V CIRCUITS
    - TEN 1/2" CONDUITS/WIRING FOR 120/208V CIRCUITS
12. IN EXISTING GYM AREA, CORRIDOR 2C4, MECHANICAL ROOM #249 AND WORK ROOM #250, TEMPORARILY DISCONNECT EXISTING CEILING/WALL MOUNTED ELECTRICAL EQUIPMENT/DEVICES AND REMOVE FROM THEIR LOCATIONS AND RE-INSTALL TO THE ORIGINAL LOCATIONS AND CONNECT TO THE SAME EXISTING ELECTRICAL CIRCUITS OR ZONE CIRCUITS AFTER COMPLETION/INSTALLATION OF NEW STRUCTURAL BEAMS/COMPONENTS AND MECHANICAL EQUIPMENT/DEVICES. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST TO SUIT:
    - 12 LIGHT FIXTURES C/W ASSOCIATED MOUNTING COMPONENTS
    - 4 P.A. SPEAKERS
    - 2 MECHANICAL CEILING FANS
    - 6 EMERGENCY REMOTE HEADS
    - 6 FIRE ALARM DETECTORS (PROVIDE F.A. VERIFICATION AFTER COMPLETION OF WORK)
13. IN THIS AREA, RE-ROUTE EXISTING CONDUIT/WIRING TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL MECHANICAL DUCT & FIRE SMOKE DAMPER PENETRATION. INCLUDE 60' CONDUIT/WIRING FOR EACH OF THE FOLLOWING SYSTEMS/CIRCUITS:
    - FIRE ALARM SYSTEM
    - SECURITY SYSTEM
    - P.A./TELEPHONE SYSTEM
    - CCTV SYSTEM
    - FIVE 1", FIVE 2" FEEDER CONDUIT/WIRING FOR 120/208V CIRCUITS
    - TWO 1/2" CONDUITS/WIRING FOR 120/208V CIRCUITS

FIRE/SMOKE DAMPERS:

LEGEND:

DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER
FSD
PANEL NAME-XX — INDICATES 120V CIRCUIT FOR FIRE/SMOKE DAMPER ACTUATOR

NOTES:

1. EXACT LOCATION OF FIRE/SMOKE DAMPERS SHALL BE DETERMINED AS PER MECHANICAL DRAWINGS AND ON SITE. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
2. DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE INSTALLED DOWNSTREAM (AIR FLOW DIRECTION) OF SEPARATION. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR AND ON SITE.
3. DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE COMPLETE WITH TWO (2) DPDT FORM-C RELAYS WITH 120V INPUT CONTACTS FOR FIRE/SMOKE DAMPER ACTUATOR OPERATION AND INTEGRATION SEQUENCE.

2 / E304 — SECOND FLOOR (WEST WING) MODIFICATION LAYOUT
1:100

Key Plan N.T.S.

Project North — True North

No.	Revisions	Date
3	ISSUED FOR ADDENDUM-E1	2024 05 30
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No.	Issue	Date

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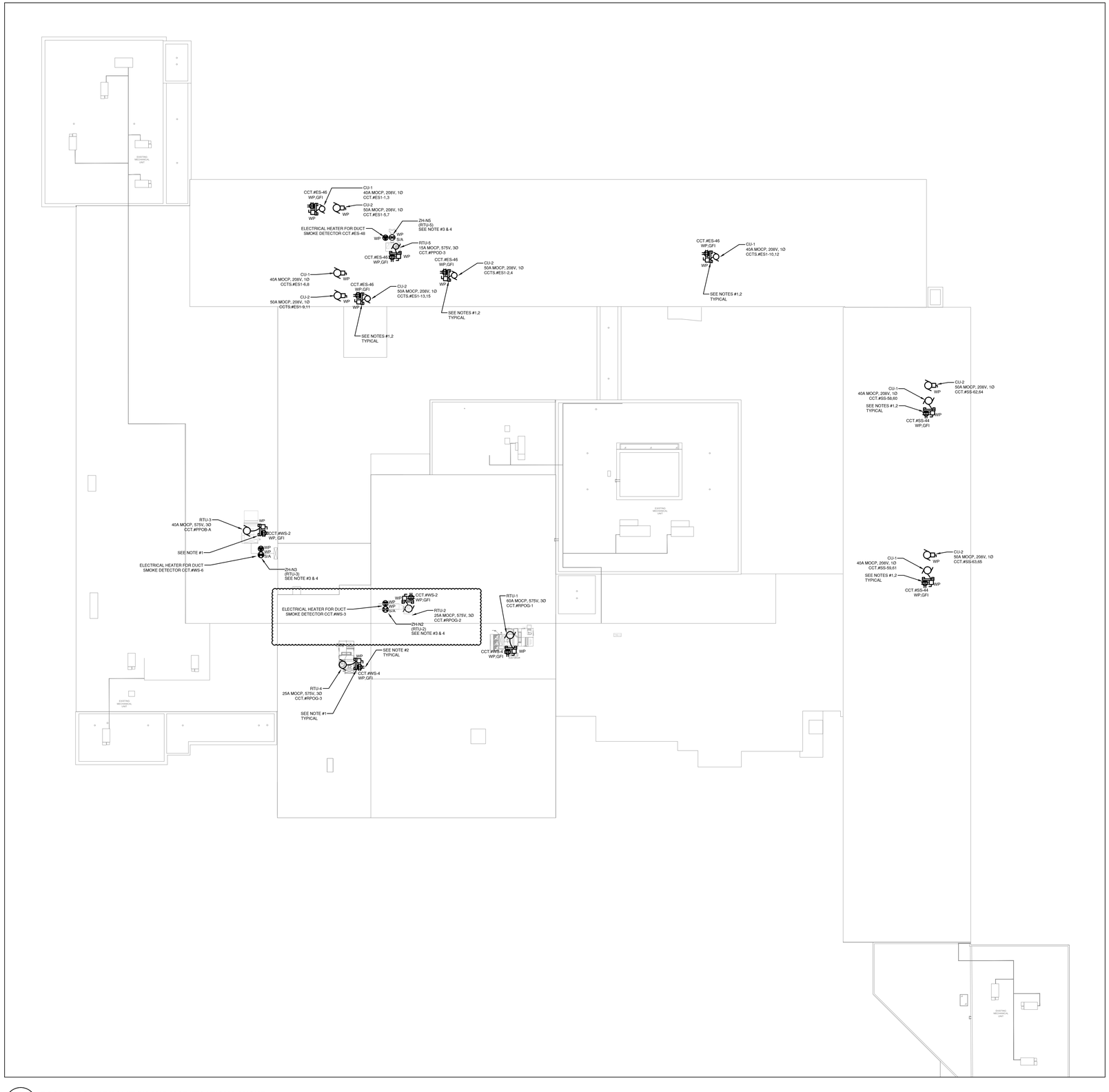
Drawing Title:
SECOND FLOOR (WEST WING) DEMOLATION & MODIFICATION LAYOUT

Scale:	1:100	Date:	MAY 2024
Drawn by:	FH	Checked by:	TM
Job No.	23178	Drawing No.	E304



1 E400 **ROOF FLOOR DEMOLITION AND MODIFICATION LAYOUT**
1:300

NOTES

1. PROVIDE FREE STANDING (BOLTED TO THE FLOOR) UNISTRUTS/ MOUNTING BRACKETS FOR INSTALLATION OF WEATHERPROOF DISCONNECT SWITCH/WEATHERPROOF GFI SERVICE DUPLEX RECEPTACLE. EXACT LOCATION SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR AND ON SITE.
2. 15/20A,120V COMBINATION WEATHERPROOF GFI SERVICE DUPLEX RECEPTACLE C/W WEATHERPROOF IN-USE COVER AND "EXTRA DUTY" LABEL, SIMILAR TO HUBBELL CAT#WMX3200.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF DUCT SMOKE DETECTOR(S) MOUNTED ON SUPPLY AIR DUCT WITH MECHANICAL CONTRACTOR TO AVOID FALSE FIRE ALARMS.
4. PROVIDE FIRE ALARM DUCT SMOKE DETECTOR COMPLETE WITH PILOT LIGHT, HEATER AND WEATHER PROOF HEATING ENCLOSURE.

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Key Plan N.T.S.

N — Project North

N — True North

No.	Revisions	Date
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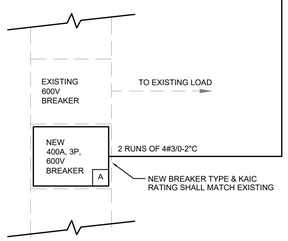
Drawing Title:
ROOF PLAN MODIFICATION LAYOUT

Scale:	1:300	Date:	MAY 2024
Drawn by:	FH	Checked by:	TM
Job No.	23178	Drawing No.	E400

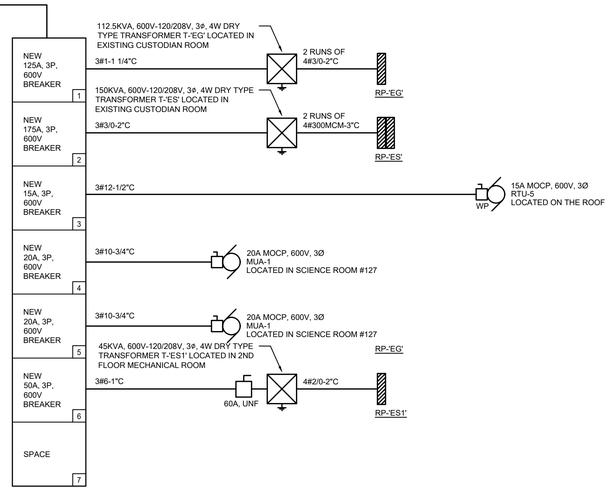
LEGEND:

- EXISTING EQUIPMENT
- NEW EQUIPMENT



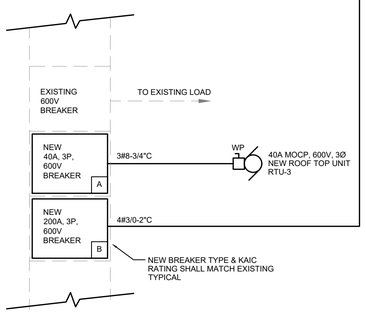
PART OF EXISTING MAIN SWITCHBOARD PP-'O'

1600A, 347/600V, 3Ø, 4W SQUARE D MAIN SWITCHBOARD LOCATED IN MAIN ELECTRICAL ROOM #147A



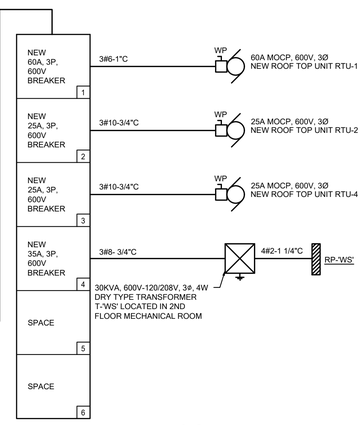
NEW PANEL PP-'OD'

400A, 347/600V, 3Ø, 4W, 25KAIC POWER PANEL LOCATED IN GROUND FLOOR CUSTODIAN



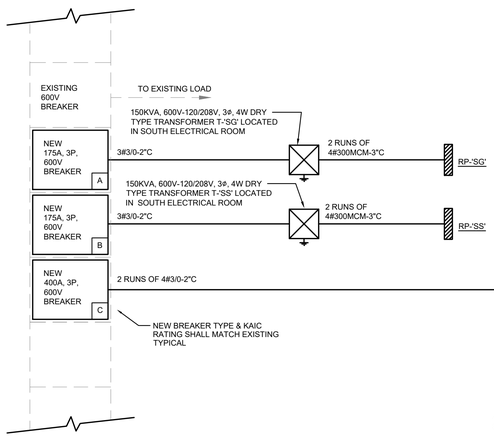
EXISTING POWER PANEL PP-'OB'

800A, 347/600V, 3Ø, 4W SQUARE D POWER PANEL LOCATED IN NORTH ELECTRICAL ROOM



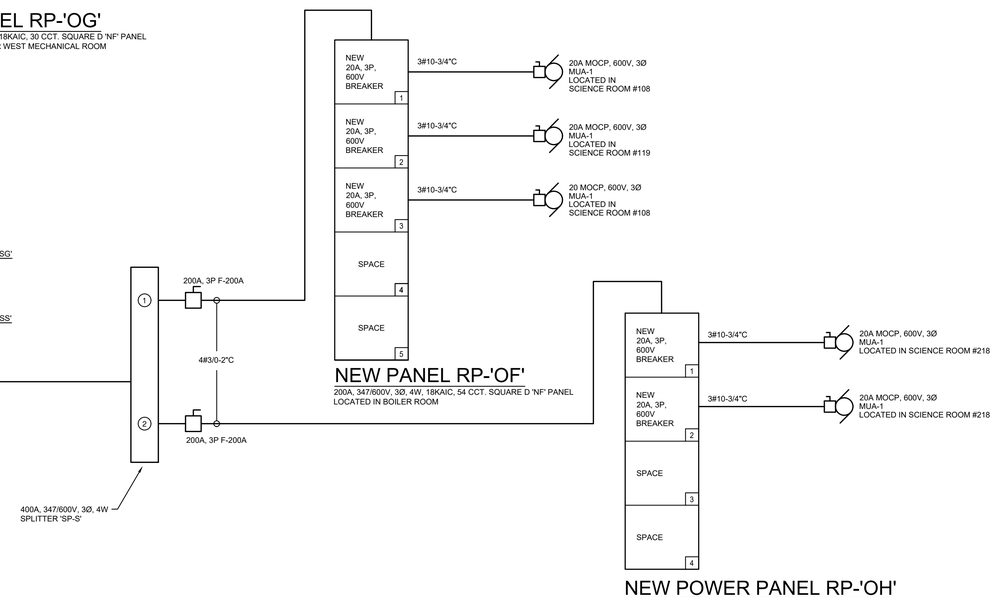
NEW PANEL RP-'OG'

200A, 347/600V, 3Ø, 4W, 18KAIC, 30 CCT. SQUARE D 'NF' PANEL LOCATED IN 2ND FLOOR WEST MECHANICAL ROOM



EXISTING POWER PANEL PP-'OC'

800A, 347/600V, 3Ø, 4W, SQUARE D POWER PANEL LOCATED IN SOUTH ELECTRICAL ROOM



NEW PANEL RP-'OF'

200A, 347/600V, 3Ø, 4W, 18KAIC, 54 CCT. SQUARE D 'NF' PANEL LOCATED IN BOILER ROOM

NEW POWER PANEL RP-'OH'

200A, 347/600V, 3Ø, 4W, 18KAIC, 42 CCT. SQUARE D 'NF' PANEL LOCATED IN SOUTH WING SECOND FLOOR CARETAKER ELECTRICAL ROOM

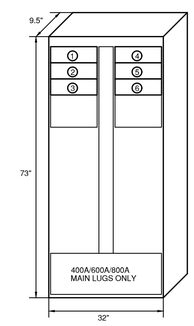
PANEL RP-'SG'

600A MAINS, 84 CCTS, 120/208V, 3Ø, 4W, 14KAIC
SURFACE MOUNTED PANEL

LOCATION: G/F BOILER RM.

DESCRIPTION	LOAD (W)	BRKR SIZE	A B C	BRKR SIZE	LOAD (W)	DESCRIPTION
UV-1 AT CLASS RM. #120	8000	30A/3P	1, 3, 5	30A/3P	8000	UV-1 AT SP. ED. #113
UV-1 AT CLASS RM. #118	8000	30A/3P	7, 9, 11	30A/3P	8000	UV-1 AT FAMILY STUDIES #106
UV-1 AT CLASS RM. #116	8000	30A/3P	13, 15, 17	30A/3P	8000	UV-1 AT CLASS RM. #105
UV-1 AT CLASS RM. #114	8000	30A/3P	19, 21, 23	30A/3P	8000	UV-1 AT CLASS RM. #103
UV-4 AT OFFICE #117	7000	25A/3P	25, 27, 29	30A/3P	8000	UV-1 AT CLASS RM. #101
MOTORIZED DAMPER	200	15A/1P	31	30A/3P	8000	UV-1 AT ECONOMIC RM. #104
MOTORIZED DAMPER	200	15A/1P	33			
RECEPTACLE CLASSROOM #120	800	15A/1P	35			
RECEPTACLE CLASSROOM #118	800	15A/1P	37	15A/3P	2500	UV-7 AT SCIENCE LAB #119
RECEPTACLE CLASSROOM #116	800	15A/1P	39			
RECEPTACLE CLASSROOM #114	800	15A/1P	41			
RECEPTACLE CLASSROOM #105	800	15A/1P	43	15A/2P	2000	ERV-2 AT CSC RM.
RECEPTACLE CLASSROOM #103	800	15A/1P	45			
RECEPTACLE CLASSROOM #101	800	15A/1P	47	20A/2P	3000	EDH-2 AT CSC RM.
MOTORIZED DAMPER	200	15A/1P	49			
MOTORIZED DAMPER	200	15A/1P	51	15A/3P	4500	UV-3 AT SCIENCE LAB #112
ERV-1 AT SENSOR RM.	800	15A/2P	53, 55			
EDH-1 AT SENSOR RM.	1000	15A/2P	57, 59	15A/3P	2500	UV-7 AT SCIENCE LAB #108
			61			
			63	15A/3P	4500	UV-8 AT STUDENT SERVICE #109
			65			
			67			
			69			
			71			
			73			
			75			
			77			
			79			
			81			
			83			
TOTAL	47200				67000	

TOTAL CONNECTED LOAD	114.2	NOTES:



1 / E001 PP-OD ELEVATION DETAIL - (SCHNEIDER HCJ)

SCALE: N.T.S.

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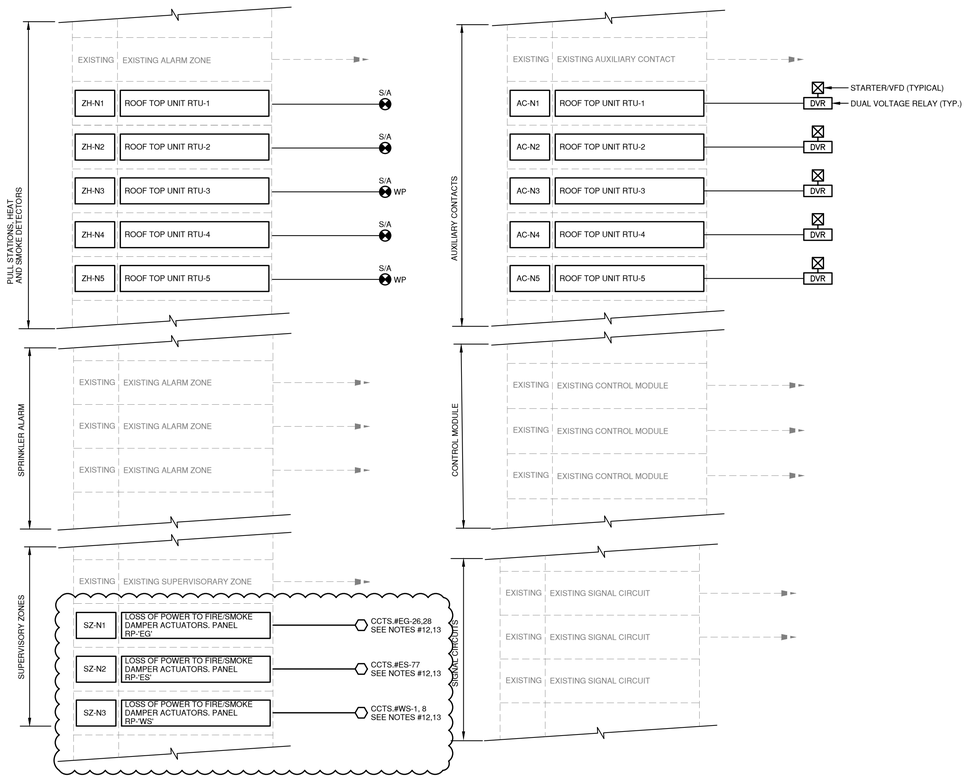
Drawing Title:
SINGLE LINE DIAGRAM

Scale:	N.T.S.	Date:	MAY 2024
Drawn by:	FH	Checked by:	TM
Job No. 23178		Drawing No. E500	



1
E600

FIRE ALARM SYSTEM RISER DIAGRAM

(EXISTING MAIN F.A. CONTROL PANEL LOCATED IN THE GROUND FLOOR NORTH ELECTRICAL ROOM, REFER TO DRAWING E204, DETAIL #2)

LEGEND:

- EXISTING EQUIPMENT
- NEW EQUIPMENT

NOTES:

1. PROVIDE ALL ASSOCIATED FIRE ALARM SYSTEM DEVICES, CONDUIT/WIRING, PROGRAMMING AND TEST/VERIFICATION FOR THE CONNECTION TO THE SPRINKLER SUPERVISORY VALVE.
2. EXISTING FIRE ALARM CONTROL PANEL (MIRCOM FX-2000) AND FIRE ALARM ANNUNCIATOR SHALL BE MODIFIED/EXTENDED TO SUIT EXISTING AND ADDITION OF NEW ZONES. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST TO SUIT. COORDINATE WITH PROJECT PHASE SCHEDULE.
3. ALL WIRING SHALL BE RUN IN CONDUIT AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. AFTER COMPLETION OF F.A. SYSTEM, PROVIDE F.A. SYSTEM VERIFICATION BY F.A. SYSTEM MANUFACTURER/INSTALLER (PART OF THIS CONTRACT).
5. FIRE ALARM ZONE NUMBERS/AUXILIARY CONTACT NUMBERS ARE SHOWN FOR REFERENCE AND INTENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY ON SITE EXACT NUMBERS, ADJUST ALL COMPONENTS TO SUIT.
6. EXISTING F.A. SYSTEM IN EXISTING BUILDING SHALL BE OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
7. ALL EXISTING CONNECTIONS TO EXISTING F.A. SYSTEM NOT AFFECTED BY THIS RENOVATION SHALL REMAIN AND OPERATIONAL. COORDINATE ON SITE.
8. PROVIDE NEW CONDUIT COMPLETE WITH NEW WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
9. INCLUDE IN THE TENDER PRICE FOR THE SUPPLY, INSTALLATION AND F.A. VERIFICATION OF ADDITIONAL 4 FIRE ALARM DUCT SMOKE DETECTORS MOUNTED IN SUPPLY DUCT, EACH COMPLETE WITH PILOT LIGHT AND 15,000mm OF CONDUIT, WIRING AND CONNECTION TO NEAREST FIRE ALARM SMOKE DETECTOR MOUNTED IN SUPPLY DUCT.
10. IN ACTUATION OF ANY FIRE ALARM ZONE, AUXILIARY CONTACTS AC-N1 TO AC-N5 SHALL BE ENERGIZED AND SHALL SHUT DOWN CORRESPONDING ROOF TOP UNITS.
11. DVR RELAYS FOR AC-N1 TO AC-N5 SHALL BE COMPLETE WITH THE TIME DELAY PROVISIONS (ROOF TOP UNITS CAN NOT START SIMULTANEOUSLY) COORDINATE WITH MECHANICAL CONTRACTOR.
12. PROVIDE ALL NECESSARY RELAYS AND COMPONENTS TO ACHIEVE LOSS OF POWER (CIRCUIT FAILURE) OF EACH CIRCUIT FOR RESPECTIVE PANEL.
13. CONDUCT COMMISSIONING, TESTING, OPERATION AND VERIFICATION OF ALL FIRE/SMOKE DAMPERS AND ASSOCIATED DUCT SMOKE DETECTORS AS PART OF INTEGRATED LIFE SAFETY SYSTEM TESTING.
14. FOR MORE INFORMATION REFER TO ELECTRICAL SPECIFICATION.
15. CONTRACTOR SHALL UTILIZE EXISTING SPARE ZONES (PREVIOUSLY DELETED DURING DEMOLITION WORK) FOR NEW ZONES.
16. INCLUDE IN THE TENDER PRICE FOR THE SUPPLY, INSTALLATION AND F.A. VERIFICATION OF ADDITIONAL 8 DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER COMPLETE WITH ASSOCIATED 120V CIRCUIT CONNECTION, EACH COMPLETE WITH PILOT LIGHT, AUXILIARY CONTACT CONNECTION, SUPERVISORY ZONE (LOSS OF POWER) AND 15,000mm OF CONDUIT, WIRING AND CONNECTION TO THE NEAREST FIRE ALARM ZONE.

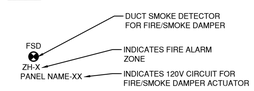
FIRE/SMOKE DAMPER OPERATION SEQUENCE:

PROVIDE ALL REQUIRED RELAYS AND COMPONENTS TO ACHIEVE THE FOLLOWING SEQUENCE:

1. NORMAL CONDITION:
   - 120V POWER SHALL BE PROVIDED TO FIRE/SMOKE DAMPER ACTUATOR TO KEEP DAMPER IN OPEN POSITION.
2. ALARM CONDITION:
   - ACTIVATION OF DUCT/CEILING SMOKE DETECTOR OF RESPECTIVE FIRE/SMOKE DAMPER (MOUNTED DOWNSTREAM OF SEPARATION) SHALL DISCONNECT 120V POWER TO FIRE/SMOKE DAMPER ACTUATOR AND CLOSE THE DAMPER.
3. LOSS OF POWER:
   - LOSS OF 120V POWER TO ACTUATOR SHALL BE PROGRAMMED IN FACP AS TROUBLE FOR CIRCUITS AS INDICATED ON FIRE ALARM RISER DIAGRAM

FIRE/SMOKE DAMPERS:

LEGEND:



NOTES:

1. EXACT LOCATION OF FIRE/SMOKE DAMPERS SHALL BE DETERMINED AS PER MECHANICAL DRAWINGS AND ON SITE. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR
2. SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE INSTALLED IN THE CEILING MAXIMUM 3M FROM THE DOWNSTREAM (AIR FLOW DIRECTION) OF THE FIRE SMOKE DAMPER. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR AND ON SITE.
3. SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE COMPLETE WITH TWO (2) DPDT FORM-C RELAYS WITH 120V INPUT CONTACTS FOR FIRE/SMOKE DAMPER ACTUATOR OPERATION AND INTEGRATION SEQUENCE.

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Key Plan N.T.S.

N — Project North

N — True North

No.	Revisions	Date
3	ISSUED FOR ADDENDUM-E1	2024 05 30
2	ISSUED FOR BIDS	2024 05 13
1	ISSUED FOR PERMIT	2024 04 29
No.	Issue	Date

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Drawing Title:
FIRE ALARM RISER

Scale:	N.T.S.	Date:	MAY 2024
Drawn by:	FH	Checked by:	TM
Job No.	23178	Drawing No.	E600

PANEL RP-'ES'

600A MAINS, 2 SECTION (2x54 CCTS), 120/208V, 3Ø, 4W, 14KAIC SURFACE MOUNTED PANEL

LOCATION: 2/F MECH RM.

DESCRIPTION	LOAD (W)	BRKR SIZE	A B C	BRKR SIZE	LOAD (W)	DESCRIPTION
UV-1 AT CLASS RM. #234	8000	30A/3P	1 2	15A/1P	200	MOTORIZED DAMPER
			3 4	15A/1P	200	MOTORIZED DAMPER
			5 6	15A/1P	200	MOTORIZED DAMPER
UV-1 AT CLASS RM. #232	8000	30A/3P	7 8	40A/3P	9600	UV-2 AT DRAMA LAB #229
			9 10			
			11 12			
UV-1 AT CLASS RM. #230	8000	30A/3P	13 14	30A/3P	8000	UV-1 AT CLASS RM. #227
			15 16			
			17 18			
UV-1 AT CLASS RM. #228	8000	30A/3P	19 20	30A/3P	8000	UV-1 AT CLASS RM. #225
			21 22			
			23 24			
UV-1 AT CLASS RM. #226	8000	30A/3P	25 26	30A/3P	8000	UV-1 AT CLASS RM. #223
			27 28			
			29 30			
UV-1 AT CLASS RM. #224	8000	30A/3P	31 32	30A/3P	8000	UV-1 AT CLASS RM. #221
			33 34			
			35 36			
UV-1 AT CLASS RM. #222	8000	30A/3P	37 38	30A/3P	8000	UV-1 AT WORK RM. #219
			39 40			
			41 42			
UV-1 AT CLASS RM. #220	8000	30A/3P	43 44	15A/1P	200	MOTORIZED DAMPER
			45 46	20A/1P	200	MAINTENANCE RECEPTACLE
			47 48	15A/1P	500	DUCT SMOKE DETECTOR HEATER
RECEPTACLE CLASSROOM #234	800	15A/1P	49 50	15A/3P	2500	UV-5 AT OFFICE #238
RECEPTACLE CLASSROOM #232	800	15A/1P	51 52			
RECEPTACLE CLASSROOM #230	800	15A/1P	53 54			
RECEPTACLE CLASSROOM #228	800	15A/1P	55 56	15A/3P	3900	UV-6 AT OFFICE #238
RECEPTACLE CLASSROOM #226	800	15A/1P	57 58			
RECEPTACLE CLASSROOM #224	800	15A/1P	59 60			
RECEPTACLE CLASSROOM #222	800	15A/1P	61 62	15A/3P	3900	UV-6 AT HEALTH RM #233
RECEPTACLE CLASSROOM #220	800	15A/1P	63 64			
RECEPTACLE CLASSROOM #227	800	15A/1P	65 66			
RECEPTACLE CLASSROOM #225	800	15A/1P	67 68	15A/3P	3900	UV-6 AT HEALTH RM #233
RECEPTACLE CLASSROOM #223	800	15A/1P	69 70			
RECEPTACLE CLASSROOM #221	800	15A/1P	71 72			
SPARE		15A/1P	73 74			
SPARE		15A/1P	75 76			
FIRE/SMOKE DAMPER ACTUATOR	400	15A/1P	77 78			
			79 80			
			81 82			
			83 84			
			85 86			
			87 88			
			89 90			
			91 92			
			93 94			
			95 96			
			97 98			
			99 100			
			101 102			
			103 104			
			105 106			
			107 108			
TOTAL	74000				65300	

TOTAL CONNECTED LOAD	139.3	NOTES:
		PROVIDE LOCKABLE BREAKERS FOR FIRE/SMOKE DAMPER ACTUATOR CIRCUITS

PANEL RP-'SS'

600A MAINS, 84 CCTS, 120/208V, 3Ø, 4W, 14KAIC SURFACE MOUNTED PANEL

LOCATION: 2/F CARETAKERS STAFF RM.

DESCRIPTION	LOAD (W)	BRKR SIZE	A B C	BRKR SIZE	LOAD (W)	DESCRIPTION
UV-1 AT CLASS RM. #215	8000	30A/3P	1 2	30A/3P	8000	UV-1 AT CLASS RM. #203
			3 4			
			5 6			
UV-1 AT CLASS RM. #213	8000	30A/3P	7 8	30A/3P	8000	UV-1 AT CLASS RM. #201
			9 10			
			11 12			
UV-1 AT CLASS RM. #211	8000	30A/3P	13 14	30A/3P	8000	UV-1 AT CLASS RM. #212
			15 16			
			17 18			
UV-1 AT CLASS RM. #209	8000	30A/3P	19 20	30A/3P	8000	UV-1 AT CLASS RM. #210
			21 22			
			23 24			
UV-4 AT CARETAKERS STAFF RM.	7000	25A/3P	25 26	40A/3P	9600	UV-2 AT CLASS RM. #206
			27 28			
			29 30			
UV-2 AT ART. #205	9600	40A/3P	31 32	30A/3P	8000	UV-1 AT CLASS RM. #204
			33 34			
			35 36			
MOTORIZED DAMPER	200	15A/1P	37 38	30A/3P	8000	UV-1 AT CLASS RM. #202
RECEPTACLE CLASSROOM #213	800	15A/1P	39 40			
RECEPTACLE CLASSROOM #211	800	15A/1P	41 42			
RECEPTACLE CLASSROOM #209	800	15A/1P	43 44	20A/1P	200	MAINTENANCE RECEPTACLE
RECEPTACLE CLASSROOM #203	800	15A/1P	45 46	15A/3P	2500	UV-7 AT SCIENCE RM. #218
RECEPTACLE CLASSROOM #201	800	15A/1P	47 48			
RECEPTACLE CLASSROOM #212	800	15A/1P	49 50			
RECEPTACLE CLASSROOM #210	800	15A/1P	51 52	15A/3P	4500	UV-3 AT SCIENCE RM. #214
RECEPTACLE CLASSROOM #206	800	15A/1P	53 54			
RECEPTACLE CLASSROOM #204	800	15A/1P	55 56			
RECEPTACLE CLASSROOM #202	800	15A/1P	57 58	40A/2P	5000	CU-1 ON THE ROOF
CU-1 ON THE ROOF	5000	40A/2P	59 60			
			61 62			
CU-2 ON THE ROOF	6500	50A/2P	63 64	50A/2P	6500	CU-2 ON THE ROOF
			65 66			
			67 68			
			69 70			
			71 72			
			73 74			
			75 76			
			77 78			
			79 80			
			81 82			
			83 84			
TOTAL	68300				76300	

TOTAL CONNECTED LOAD	144.6	NOTES:

PANEL RP-'WS'

225A MAINS, 30 CCTS, 120/208V, 3Ø, 4W 14KAIC SURFACE MOUNTED PANEL

LOCATION: 2ND FLOOR WEST MECHANICAL ROOM

DESCRIPTION	LOAD (W)	BRKR SIZE	A B C	BRKR SIZE	LOAD (W)	DESCRIPTION
FIRE SMOKE DAMPER ACTUATOR	400	15A/1P	1 2	20A/1P	500	MAINTENANCE RECEPTACLE
DUCT SMOKE DETECTOR HEATER	800	15A/1P	3 4	20A/1P	500	MAINTENANCE RECEPTACLE
			5 6	15A/1P	800	DUCT SMOKE DETECTOR HEATER
VAV-1	4000	15A/3P	7 8	15A/1P	400	FIRE SMOKE DAMPER ACTUATOR
			9 10			
VAV-2	2000	15A/3P	11 12			
			13 14			
			15 16			
VAV-3	500	15A/3P	17 18			
			19 20			
			21 22			
VAV-4	5000	20A/3P	23 24			
			25 26			
			27 28			
			29 30			
TOTAL	12700				2200	

TOTAL CONNECTED LOAD	14.9	NOTES:
		PROVIDE LOCKABLE BREAKERS FOR FIRE/SMOKE DAMPER ACTUATOR CIRCUITS

PANEL RP-'EG'

400A MAINS, 60 CCTS, 120/208V, 3Ø, 4W, 14KAIC SURFACE MOUNTED PANEL

LOCATION: G/F CUST

DESCRIPTION	LOAD (W)	BRKR SIZE	A B C	BRKR SIZE	LOAD (W)	DESCRIPTION
UV-1 AT CLASS RM. #134	8000	30A/3P	1 2	30A/3P	8000	UV-1 AT CLASS RM. #121
			3 4			
			5 6			
UV-1 AT CLASS RM. #132	8000	30A/3P	7 8	30A/3P	8000	UV-1 AT CLASS RM. #123
			9 10			
			11 12			
UV-1 AT CLASS RM. #130	8000	30A/3P	13 14	15A/3P	2500	UV-7 AT SCIENCE RM. #127
			15 16			
			17 18			
UV-1 AT CLASS RM. #128	8000	30A/3P	19 20	15A/3P	4500	UV-3 AT SCIENCE RM. #125
			21 22			
			23 24			
UV-1 AT CLASS RM. #126	8000	30A/3P	25 26	15A/1P	400	FIRE/SMOKE DAMPER ACTUATOR
			27 28	15A/1P	400	FIRE/SMOKE DAMPER ACTUATOR
			29 30			
UV-1 AT CLASS RM. #122	8000	30A/3P	31 32			
			33 34			
			35 36			
MOTORIZED DAMPER	200	15A/1P	37 38			
RECEPTACLE CLASSROOM #134	800	15A/1P	39 40			
RECEPTACLE CLASSROOM #132	800	15A/1P	41 42			
RECEPTACLE CLASSROOM #130	800	15A/1P	43 44			
RECEPTACLE CLASSROOM #128	800	15A/1P	45 46			
RECEPTACLE CLASSROOM #126	800	15A/1P	47 48			
RECEPTACLE CLASSROOM #122	800	15A/1P	49 50			
RECEPTACLE CLASSROOM #121	800	15A/1P	51 52			
RECEPTACLE CLASSROOM #123	800	15A/1P	53 54			
			55 56			
			57 58			
			59 60			
TOTAL	54600				23800	

TOTAL CONNECTED LOAD	78.4	NOTES:
		PROVIDE LOCKABLE BREAKERS FOR FIRE/SMOKE DAMPER ACTUATOR CIRCUITS

PANEL RP-'ES1'

200A MAINS, 30 CCTS, 120/208V, 3Ø, 4W 14KAIC SURFACE MOUNTED PANEL

LOCATION: 2/F MECH RM.

DESCRIPTION	LOAD (W)	BRKR SIZE	A B C	BRKR SIZE	LOAD (W)	DESCRIPTION
CU-1 ON THE ROOF	5000	40A/2P	1 2	50A/2P	6500	CU-2 ON THE ROOF
			3 4			
CU-2 ON THE ROOF	6500	50A/2P	5 6	40A/2P	5000	CU-1 ON THE ROOF
			7 8			
CU-2 ON THE ROOF	6500	50A/2P	9 10	40A/2P	5000	CU-1 ON THE ROOF
			11 12			
CU-2 ON THE ROOF	6500	50A/2P	13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			
			25 26			
			27 28			
			29 30			
TOTAL	24500				16500	

TOTAL CONNECTED LOAD	41.0	NOTES:

Halton District School Board

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Key Plan N.T.S.

Project North — True North

No.	Revisions	Date

No.	Issue	Date
3	ISSUED FOR ADDENDUM-E1	2024 05 30
2	ISSUED FOR BIDS	2024 05 13
1	ISSUED FOR PERMIT	2024 04 29

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Drawing Title:
PANEL SCHEDULE

Scale:	N.T.S.	Date:	MAY 2024
Drawn by:	FH	Checked by:	TM
Job No. 23178		Drawing No. E700	

1. General

1.1 APPLICATION

.1 This Section specifies products, criteria and characteristics, and methods and execution that are common to one or more Sections of Electrical Divisions. It is intended as a supplement to each Section and is to be read accordingly.

.2 Refer to section 26 05 01, Electrical Work General Instructions.

1.2 SUBMITTALS

.1 Submit shop drawings for all products specified in Part 2.

.2 Submit the following to the Consultant for review:
   .1 Manufacturer's printed product literature, specifications and datasheet and include product characteristics, performance criteria, physical size, finish, and limitations.
   .2 Samples of materials and any other items as specified in succeeding Sections of this Division of the Specification.

2. Products

.1 Except for those items as may be specified in Part 3, of this Section, refer to Part 2 of the various Sections of Specification, Division 26 Electrical.

.2 The lighting fixtures with the letter shown, shall be of the types as described below:

Type ‘A’ Shall be Lithonia Lighting Cat. #BLWP4-40L-ADP-ADPT-120-EZ1-LP840-BLWPQMB, 4’-0” low profile LED Wraparound light fixture complete with high performance extruded acrylic diffuser, quick mount bracket, 120-volt integral driver and other mounting accessories as required to suit fixture installation as shown on drawings. Fixture shall be surface mounted with power feedthrough from the side of the fixture.

Type ‘AA’ Shall be the same as Type ‘A’ except with continuous row mounting bracket, stem suspension kit and other mounting accessories as required to suit fixture installation as shown on drawings. Cat. #BLWP4-40L-ADP-ADPT-120-EZ1-LP840-BLWPCR-SQXX. Exact stem length will be confirmed by the architect at later date.

Type ‘B’ Shall be ILP Volumetric Troffer Cat. #VST14-4L-U-40-DIM1, 1’-0” x 4’-0” recessed LED light fixture for T-bar ceiling mounting, complete with high reflective matte white post paint finish, high transmission frosted polycarbonate lens, and 120-volt integral dimming driver.

.3 LED light fixtures, unless otherwise noted, Influx Lighting, Salex, Signify, Cooper, Acuity, Columbia Lighting and Hubbell Lighting shall be considered equal provided they meet the specifications, designed lighting calculations based on absolute IES files of the respective light fixtures.

END OF SECTION