

2050 Guelph Line
Burlington, Ontario
NELSON HIGH SCHOOL
BOILER REPLACEMENT

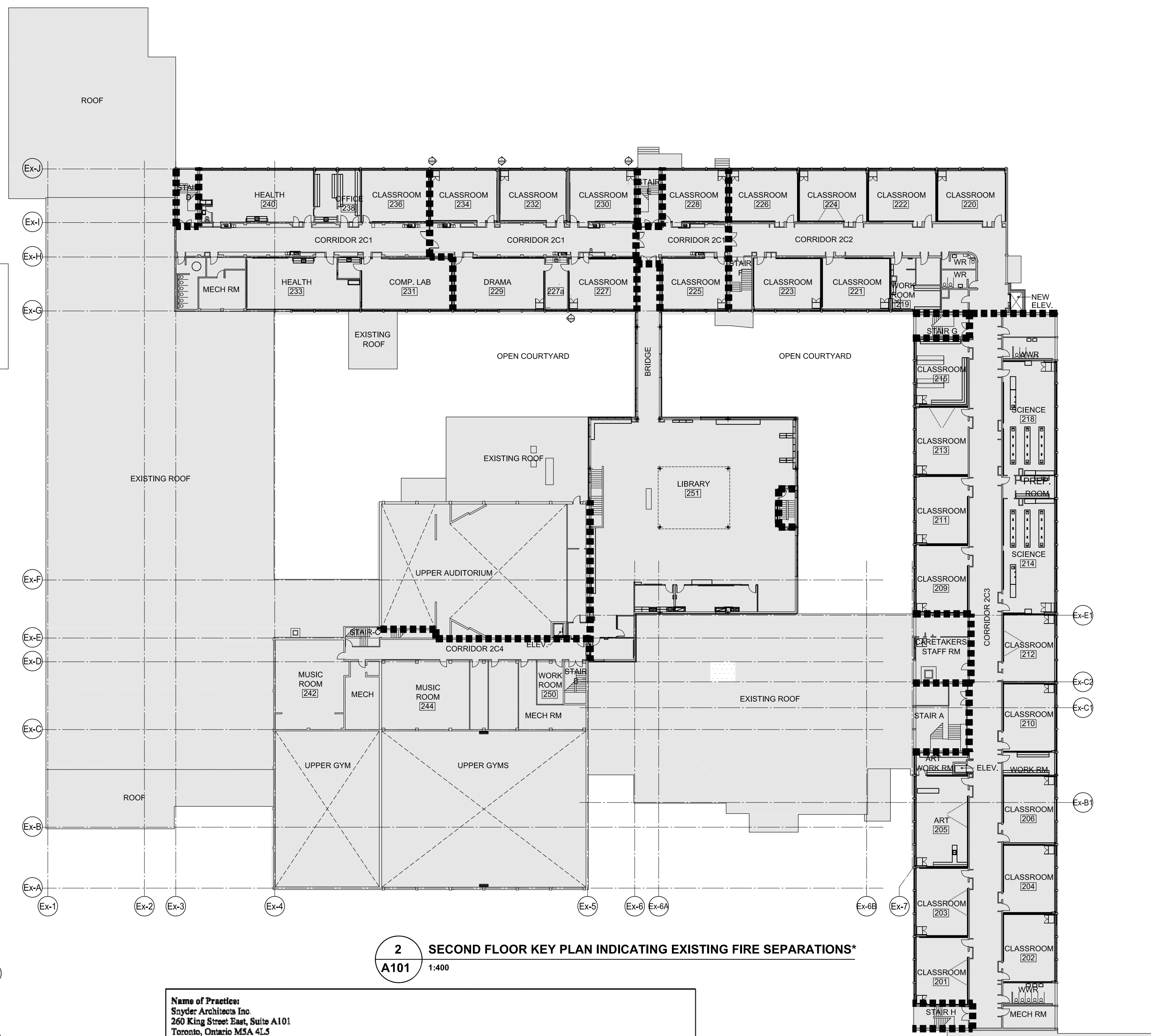
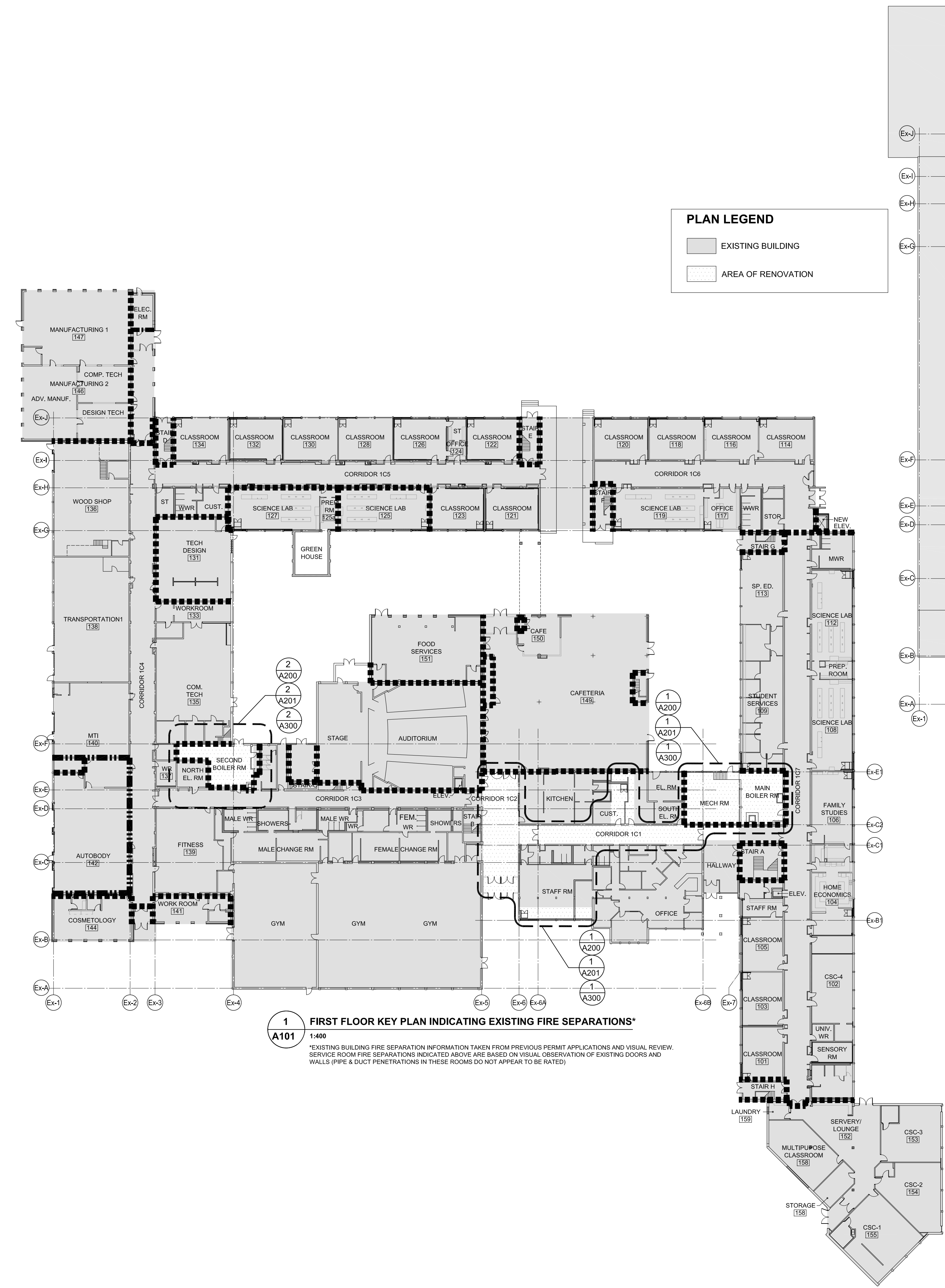
4181 NEW STREET
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2 SECOND FLOOR KEY PLAN INDICATING EXISTING FIRE SEPARATIONS*
A101 1:400

1 FIRST FLOOR KEY PLAN INDICATING EXISTING FIRE SEPARATIONS*
A101 1:400

*EXISTING BUILDING FIRE SEPARATION INFORMATION TAKEN FROM PREVIOUS PERMIT APPLICATIONS AND VISUAL REVIEW. SERVICE ROOM FIRE SEPARATIONS INDICATED ABOVE ARE BASED ON VISUAL OBSERVATION OF EXISTING DOORS AND WALLS (PIPE & DUCT PENETRATIONS IN THESE ROOMS DO NOT APPEAR TO BE RATED)

Ontario Building Code Data Matrix - Part 11 - Alteration of Existing Building			BC Reference
11.1	Existing Building classification: Describe Existing Use: School Construction Index: N/A Hazard Index: N/A ● Not Applicable (no change of major occupancy)		11.2.1 T 11.2.1.1A T 11.2.1.1B to N
11.2	Alteration to Existing Building is: Basic Renovation ● Extensive Renovation ○		11.3.3.1 11.3.3.2
11.3	Reduction in Performance Level: Structural: By increase in occupant load: ● No ○ Yes By change of major occupancy: ● No ○ Yes Plumbing: ● No ○ Yes Sewage-system: ● No ○ Yes		11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
11.4	Compensating Construction: Structural: Increase in occupant load: ● No ○ Yes (explain) Change of major occupancy: ● No ○ Yes (explain) Plumbing: ● No ○ Yes (explain) Sewage system: ● No ○ Yes (explain)		11.4.3 11.4.3.2 11.4.3.3 11.4.3.4 11.4.3.5 11.4.3.6
11.5	Compliance Alternatives Proposed: ● No ○ Yes (give number(s))		11.5.1

LEGEND:
 ■■■■ EXISTING 1 HR. FIRE SEPARATION
 ■■■■■ EXISTING 2 HR. FIRE SEPARATION

PROJECT SUMMARY:
 SCOPE OF WORK:
 - MECHANICAL SERVICE UPGRADES INCLUDING BOILER REPLACEMENT IN EXISTING BUILDING, ADDITION OF UNIT VENTILATORS IN STAFF ROOM, CUSTODIAN ROOM AND NEW ROOF TOP EQUIPMENT, REPLACE ONE EXISTING WINDOW TO ACCOMMODATE HVAC LOUVERS,
 - DEMOLITION OF EXISTING MASONRY CHIMNEYS ABOVE ROOF
 BUILDING CODE SUMMARY:
 - THERE IS NO CHANGE TO THE EXISTING OCCUPANT LOAD OF THE SCHOOL
 - EXISTING 2-STORY SCHOOL IS BUILT WITH MULTIPLE ADDITIONS, ORIGINAL CONSTRUCTION IS CONCRETE MASONRY, PRECAST CONCRETE FLOOR, AND A COMBINATION OF PRECAST CONCRETE AND STEEL METAL DECK ROOF.
 - EXISTING 1-STORY SCHOOL IS BUILT WITH CONCRETE MASONRY, PRECAST CONCRETE ROOF, (NON-COMBUSTIBLE)
 - SOME PORTIONS OF EXISTING BUILDING ARE SPRINKLERED, AND DOES NOT FIT IN ANY CURRENT OBC BUILDING CLASSIFICATION.
 - MAINTAIN EXISTING ASSUMED FRR AS INDICATED ON 1/A101 AND 2/A101 FOR FIRE SEPARATION

Key Plan N.T.S.



No.	Revisions	Date
2	ISSUED FOR CONSTRUCTION	2025 03 19
1	ISSUED FOR PERMIT & PRICING	2024 10 30
No.	Issue	Date

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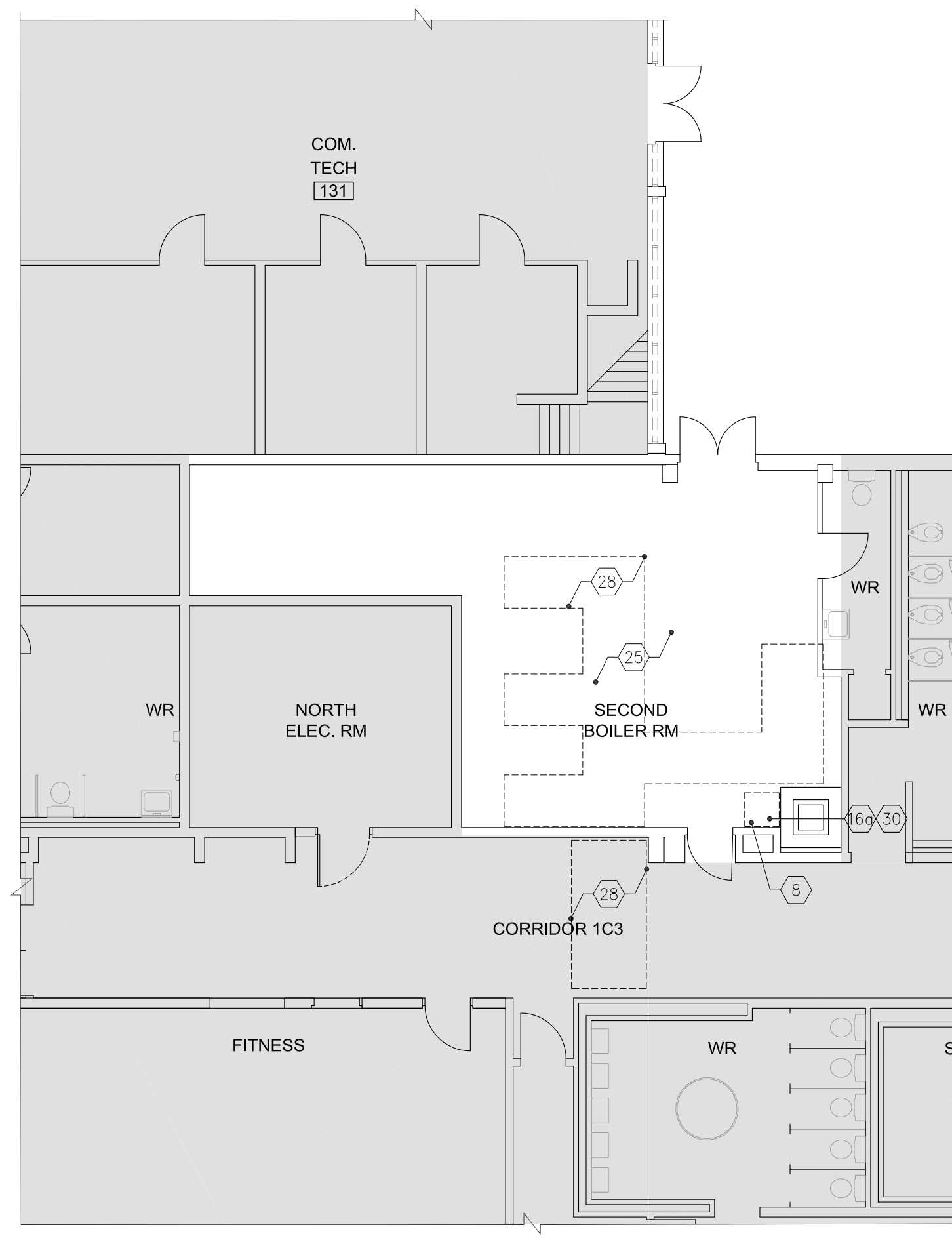
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KEY FLOOR PLANS WITH EXST. FIRE SEPARATIONS AND OBC MATRIX

Scale: AS NOTED Date: 12/04/2023

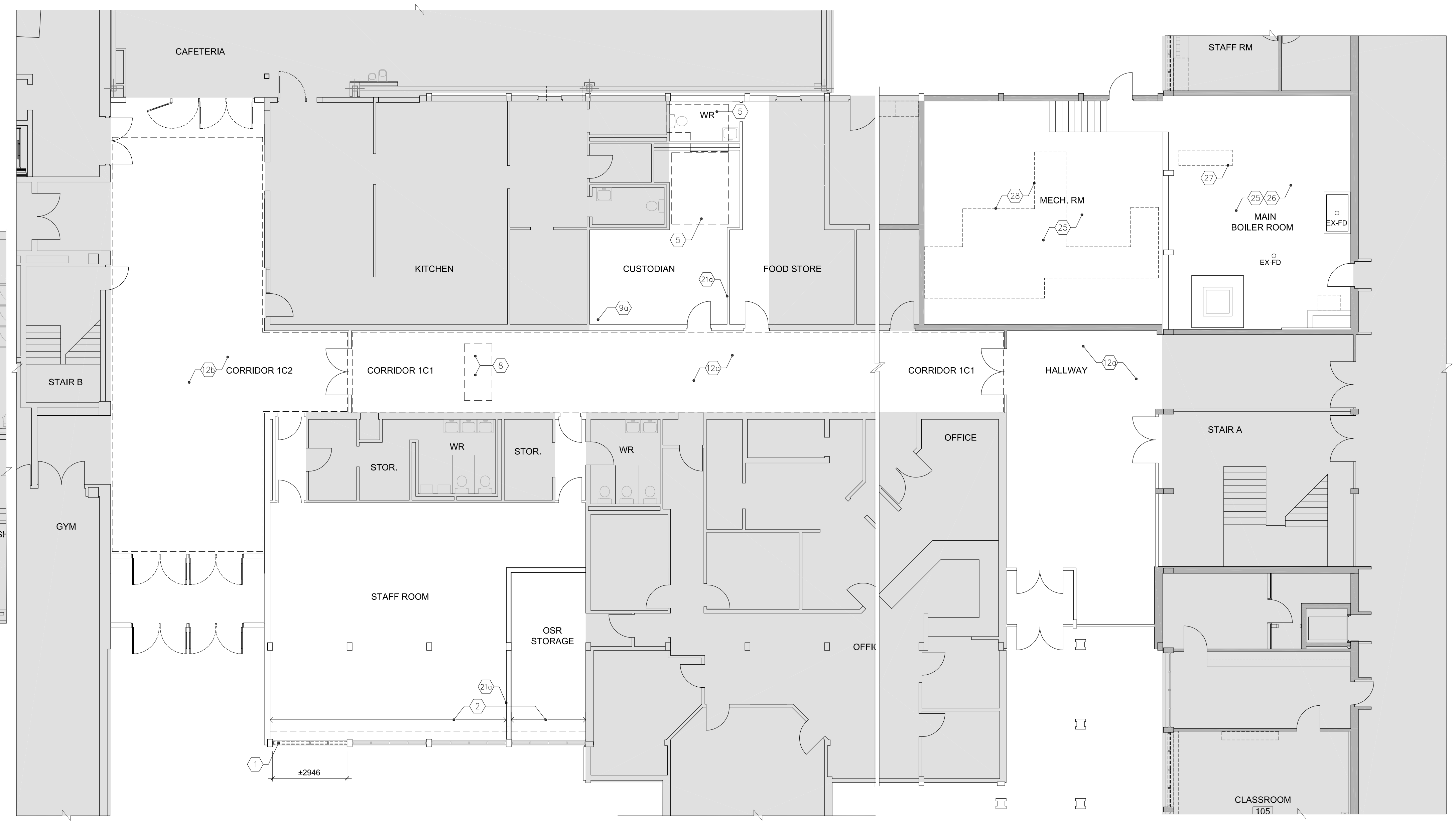
Drawn by: MS Checked by:

Job No. Drawing No.

2323-2 A 101



2 FIRST FLOOR PARTIAL DEMOLITION PLAN (SECOND BOILER ROOM)
 A200 1:100



1 FIRST FLOOR PARTIAL DEMOLITION PLAN (MAIN BOILER RM, CUSTODIAN RM, CORRIDORS AND STAFF RM)
 A200 1:100

NOTE: CONTRACTOR TO REVIEW "DESIGNATED SUBSTANCE AND HAZARDOUS BUILDING MATERIALS ASSESSMENT" REPORT PREPARED BY MTE CONSULTANTS INC. REMOVAL OF ANY MATERIALS AS NOTED ON THE DEMOLITION DRAWINGS TO BE REMOVED & DISPOSED OF IN ACCORDANCE TO THIS REPORT & THE SPECIFICATION SECTION 02 82 09

DEMOLITION NOTES

- 1** BY SC02 REMOVE AND DISPOSE OF EXISTING WINDOW (±3000mm x ±2000mm) & FRAME WITH ASSOCIATED COMPONENTS ALONG WITH FLAM SILL TO CREATE NEW OPENING. COORDINATE WITH STRUCT. & MECH. DWGS FOR ADDITIONAL DEMOLITION SCOPE FOR WORK. MAKE GOOD AFFECTED SURFACES TO RECEIVE NEW WORK. MAKE OPENING WETHER TIGHT SCOPE BY SC01
- 1a** BY SC01 REMOVE AND DISPOSE OF EXISTING WINDOW PANE. MAKE GOOD AFFECTED SURFACES TO RECEIVE NEW MECH. LOUVER IN EXISTING WINDOW FRAME.
- 2** BY SC02 REMOVE AND DISPOSE OF EXISTING RAD WITH ATTACHED COMPONENTS INCLUDING ASSOCIATED TRIMS, MILLWORK, WOOD BLOCKING & INSULATION BEHIND. COORDINATE WITH MECH. & ELEC. DWGS FOR EXTENT & SCOPE OF ADDITIONAL DEMOLITION WORK. MAKE GOOD AFFECTED SURFACES.
- 3** BY SC03 DRAIN, CUT BACK AND DISPOSE OF EXISTING SERVICE PIPES. CONNECT TO NEW AND REDIRECT INTERNAL PIPES TOWARDS NEW CHASE. COORDINATE WITH MECH. & ELEC. DWGS FOR EXTENT & SCOPE OF ADDITIONAL DEMOLITION WORK. MAKE GOOD AFFECTED SURFACES TO RECEIVE NEW WORK.
- 5** BY SC03 DISCONNECT, REMOVE AND DISPOSE OF EXISTING CEILING HUNG MECH. UNIT WITH ATTACHED COMPONENTS. COORDINATE WITH MECH. & ELEC. DWGS FOR EXTENT & SCOPE OF ADDITIONAL DEMOLITION WORK. MAKE GOOD AFFECTED SURFACES.
- 8** BY SC07 CUT AND DISPOSE OF EXISTING CONCRETE SLAB ROOF ASSEMBLY INCLUDING INSULATION, ROOFING MEMBRANE & ADHESIVE TO CREATE NEW OPENINGS (assume 6sq ft in area) FOR DUCT & SERVICE PIPE PENETRATIONS. COORDINATE WITH MECH & ELEC. DWGS FOR CORRECT SIZES & EXACT LOCATIONS. REFER TO STRUCTURAL DRAWINGS FOR SUPPORT FRAMING AROUND OPENINGS. MAKE GOOD (ALL TRADES) ALL SURFACES READY TO RECEIVE PROPOSED WORK.
- 9** BY SC07 CUT AND DISPOSE OF EXISTING ROOF ASSEMBLY INCLUDING INSULATION, ROOFING MEMBRANE FOR INSTALLATION OF STRUCTURAL STEEL SUPPORT. COORDINATE WITH STRUCT. & MECH DWGS FOR EXTENT & SCOPE OF ADDITIONAL DEMOLITION REQUIREMENTS. MAKE GOOD (ALL TRADES) ALL SURFACES READY TO RECEIVE PROPOSED WORK.
- 9a** BY SC07 CUT AND DISPOSE OF EXISTING CONCRETE SLAB ROOF ASSEMBLY INCLUDING INSULATION, ROOFING MEMBRANE & ADHESIVE TO CREATE NEW SERVICE PIPE PENETRATIONS. COORDINATE WITH MECH & ELEC. DWGS FOR CORRECT SIZES & EXACT LOCATIONS. REFER TO STRUCTURAL DRAWINGS FOR SUPPORT FRAMING AROUND OPENINGS. MAKE GOOD (ALL TRADES) ALL SURFACES READY TO RECEIVE PROPOSED WORK.
- 12** BY SC04 REMOVE AND DISPOSE OF EXISTING LIGHT FIXTURES AND ASSOCIATED DEVICES FROM EXPOSED CEILING. MAKE GOOD AFFECTED SURFACES. COORDINATE W/MECH. /ELEC. DWGS FOR ADDITIONAL DEMOLITION SCOPE FOR WORK.
- 12a** BY SC02 REMOVE AND DISPOSE OF ACT CEILING WITH ELECTRICAL FIXTURES AND OTHER DEVICES. MAKE GOOD AFFECTED SURFACES. COORDINATE WITH MECH., MECH. ELEC. DWGS FOR ADDITIONAL DEMOLITION SCOPE FOR WORK.
- 12b** BY SC02 REMOVE EXISTING CEILING TILES TO COMPLETE MECH. SERVICE CONNECTIONS. CAREFULLY STORE EXISTING ACT TILES FOR REUSE. SUPPORT T-BAR WHERE NECESSARY. RETAIN EXISTING LIGHT FIXTURES, MECH DIFFUSERS, AND GRILLS. COORDINATE W/ MECH. DGW FOR ADDITIONAL DEMO. SCOPE AND REQUIREMENTS. REINSTALL CEILING TILES AFTER COMPLETION OF MECH. SERVICES- RENOVATION WORK. UNDAMAGED CLG COMPONENTS ARE ACCEPTABLE FOR REUSE.
- 19** BY SC04 DISCONNECT, REMOVE AND DISPOSE OF EXISTING FLOOR MOUNTED RACEWAYS WITH POWER OUTLETS. INCLUDE TO CUT, REMOVE AND DISPOSE OF EXISTING SERVICE CONNECTIONS BELOW / UNDER SLAB (FIRST FLOOR CEILING SPACE). REFER TO ELEC. DWGS FOR ADDITIONAL REQUIREMENTS. MAKE GOOD AFFECTED SURFACES.
- 21** BY SC02 CAREFULLY CUT, REMOVE AND CREATE AN OPENING (assume 6sq ft in area) FOR DUCT PENETRATION THROUGH EXISTING BLOCK WALL. COORDINATE WITH MECH DWGS FOR EXTENT & SCOPE OF ADDITIONAL DEMOLITION REQUIREMENTS CONNECTIONS. MAKE GOOD (ALL TRADES) ALL SURFACES READY TO RECEIVE PROPOSED WORK.
- 21a** BY SC02 CAREFULLY CUT, REMOVE AND CREATE AN OPENING (assume 2sq ft in area) SERVICE PENETRATION THROUGH EXISTING BLOCK WALL. COORDINATE WITH MECH DWGS FOR EXTENT & SCOPE OF ADDITIONAL DEMOLITION REQUIREMENTS CONNECTIONS. MAKE GOOD (ALL TRADES) ALL SURFACES READY TO RECEIVE PROPOSED WORK.
- 25** BY SC03 REFER TO MECHANICAL DWGS FOR BOILER ROOM DEMOLITION SCOPE. COORDINATE WITH MECH. ELEC. & STRUCT. DWGS FOR EXTENT & SCOPE OF ADDITIONAL DEMOLITION WORK. MAKE GOOD AFFECTED SURFACES.
- 26** BY SC02 CAREFULLY CUT EXISTING CONCRETE PAD / PLATFORM OF EXISTING MECH. EQUIPMENTS. ASSUME 10 LOCATIONS OF 1.5m x 1.5m SIZE. COORDINATE WITH MECH. DWGS FOR EXTENT & SCOPE OF ADDITIONAL DEMOLITION WORK. MAKE GOOD AFFECTED SURFACES TO RECEIVE NEW FLOOR FINISH.
- 27** BY SC02 REMOVE AND DISPOSE OF EXISTING FLOOR TRENCH COVER. REFER TO MECH. ELEC. DWGS FOR ADDITIONAL REQUIREMENTS/ UNDER SLAB CONNECTIONS. MAKE GOOD (ALL TRADES) ALL SURFACES READY TO RECEIVE PROPOSED WORK.
- 28** BY SC02 CUT AND DISPOSE OF EXISTING SLAB/FLOOR TO CREATE TRENCH FOR NEW SERVICE CONNECTIONS. REFER TO MECH., ELEC. DWGS FOR ADDITIONAL REQUIREMENTS/ UNDER SLAB CONNECTIONS. MAKE GOOD (ALL TRADES) ALL SURFACES TO RECEIVE PROPOSED WORK.
- 29** BY SC02 REMOVE AND DISPOSE OF EXISTING CHIMNEY WALL ASSEMBLY (APPROX. SIZE: 5' x 5' x 42' high) INCLUDING ANY ATTACHED COMPONENTS (ABOVE CUSTODIAN ROOM 2ND FLOOR ROOF) IN MAIN BOILER RM. REFER TO STRUCTURAL, MECH. & ELEC. DWGS FOR ADDITIONAL REQUIREMENTS. MAKE GOOD (ALL TRADES) ALL SURFACES READY TO RECEIVE PROPOSED WORK.
- 30** BY SC02 REMOVE AND DISPOSE OF EXISTING CHIMNEY WALL ASSEMBLY (APPROX. SIZE: 4' x 4' x 22' high) INCLUDING ANY ATTACHED COMPONENTS (ABOVE SECOND BOILER RM ROOF) IN SECOND BOILER RM. REFER TO STRUCTURAL, MECH. & ELEC. DWGS FOR ADDITIONAL REQUIREMENTS. MAKE GOOD (ALL TRADES) ALL SURFACES READY TO RECEIVE PROPOSED WORK.

Key Plan N.T.S.



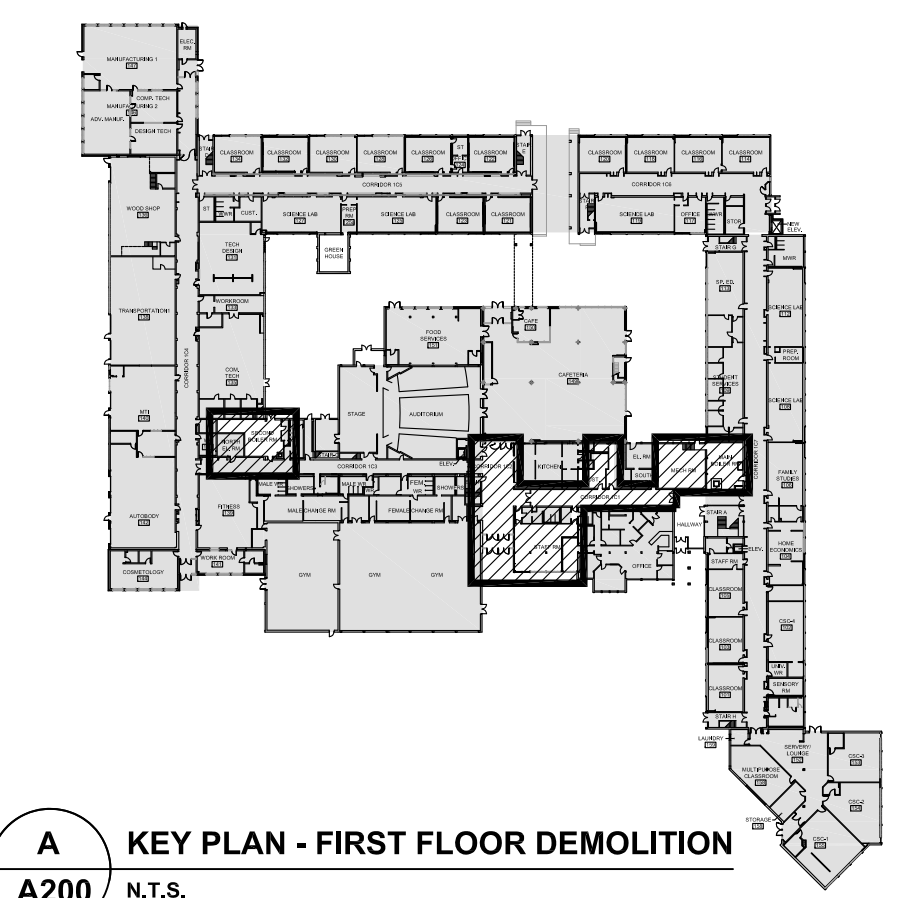
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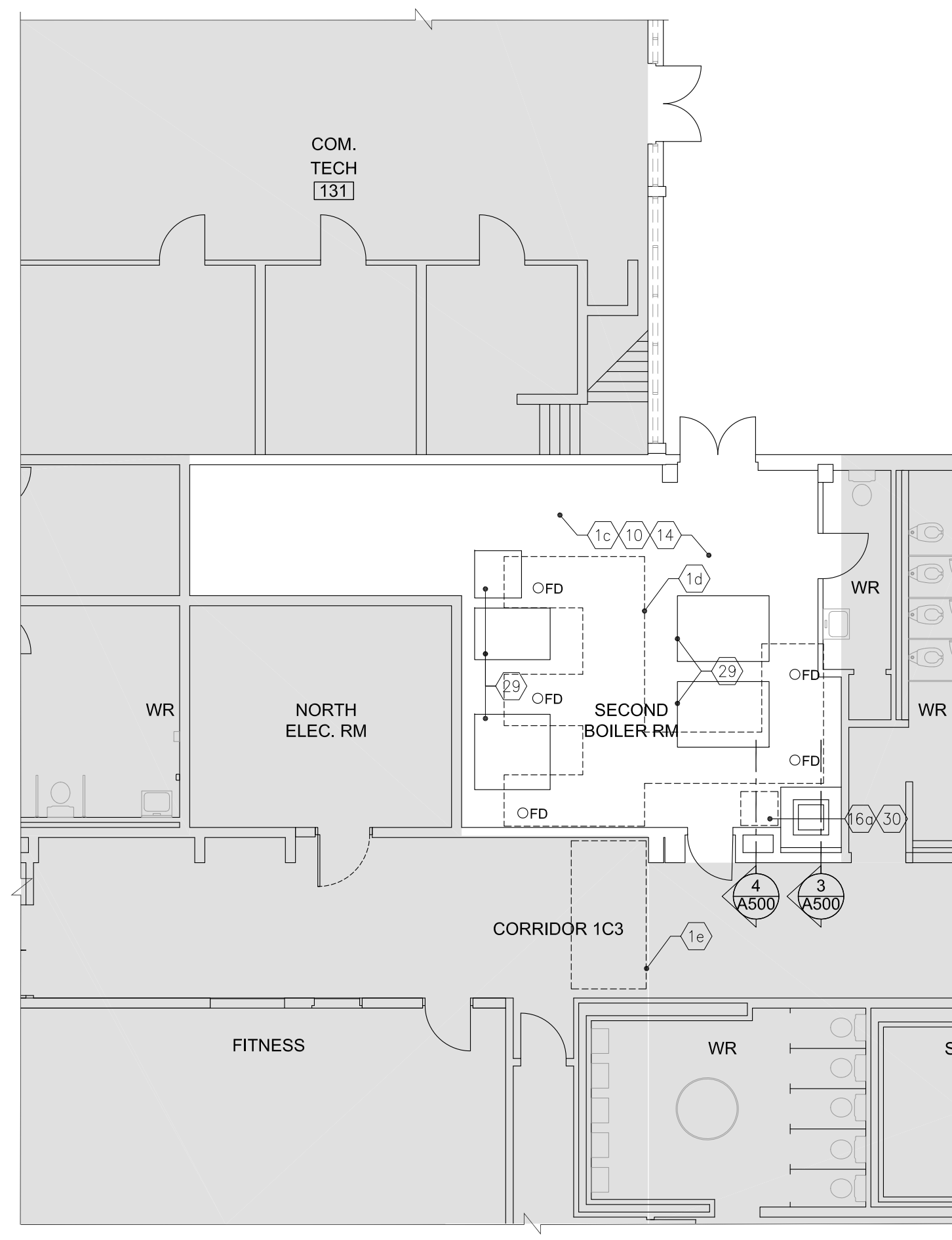
FIRST FLOOR PARTIAL DEMOLITION PLAN

Scale: 1:100 Date: 09/09/2024
 Drawn by: MS Checked by:

Job No. 2323-2 Drawing No. A 200



A KEY PLAN - FIRST FLOOR DEMOLITION
 A200 N.T.S.

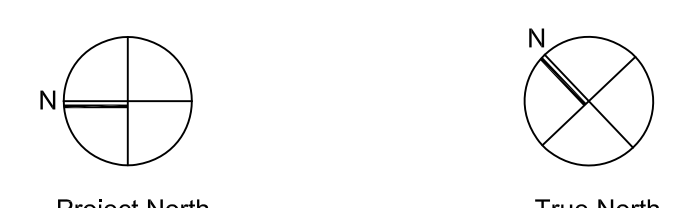


2 FIRST FLOOR PARTIAL RENOVATION PLAN (SECOND BOILER ROOM)
 A202 1:100



1 FIRST FLOOR PARTIAL RENOVATION PLAN (BOILER RM, CUSTODIAN RM, CORRIDORS AND STAFF RM)
 A202 1:100

Key Plan N.T.S.



Project North True North

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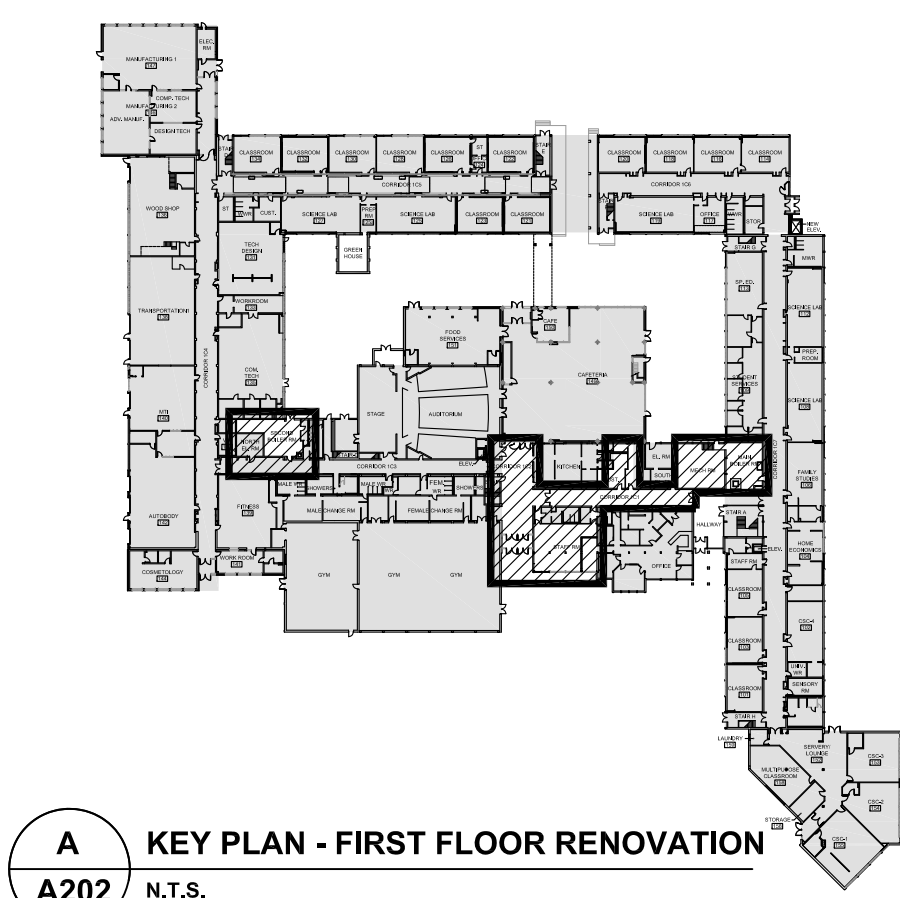
FIRST FLOOR PARTIAL RENOVATION PLAN

Scale: 1:100 Date: 09/09/2024

Drawn by: MS Checked by:

Job No. Drawing No.

2323-2 A 202



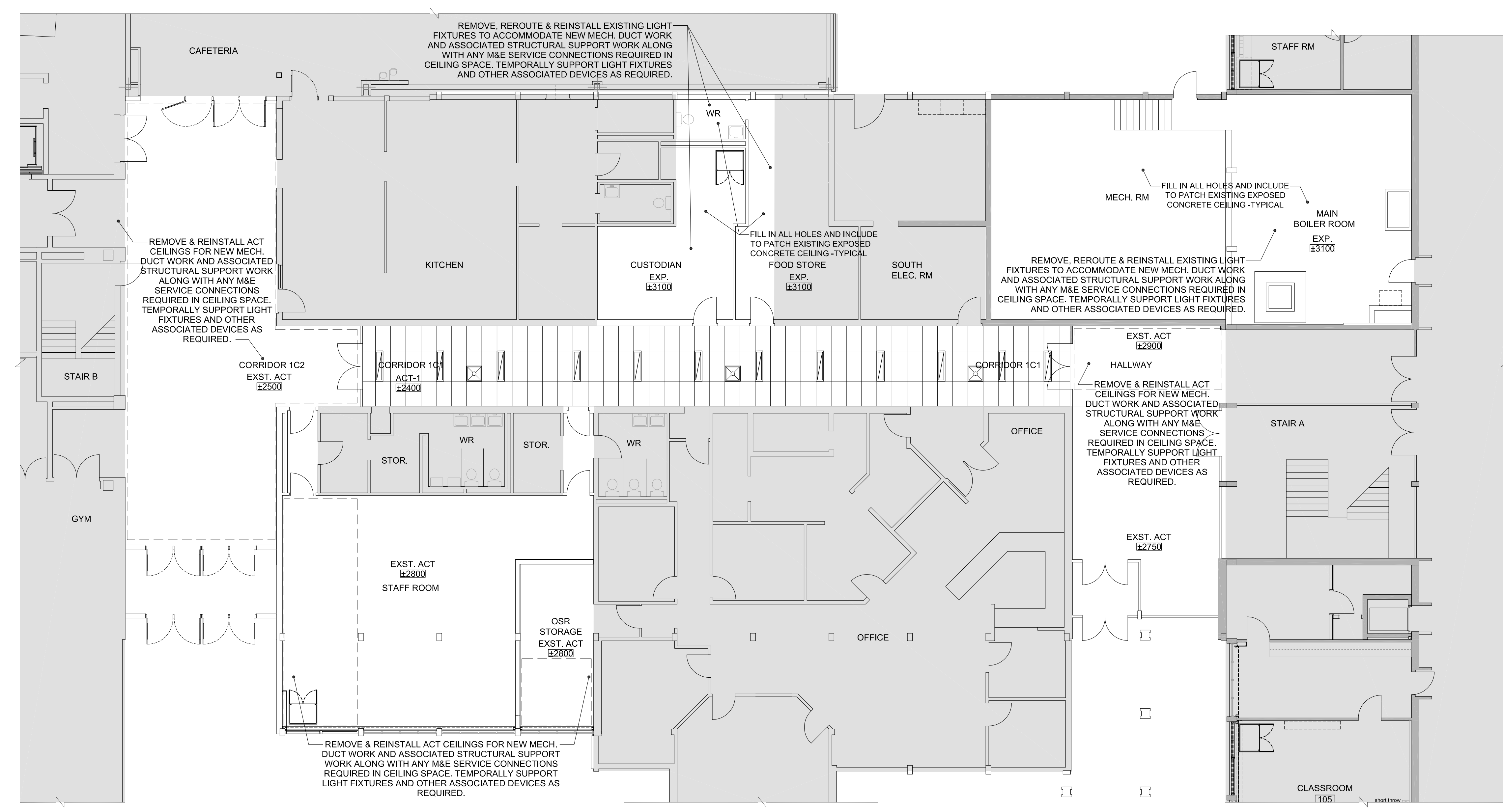
A KEY PLAN - FIRST FLOOR RENOVATION
 A202 N.T.S.

INTERIOR PARTITION WALL TYPES

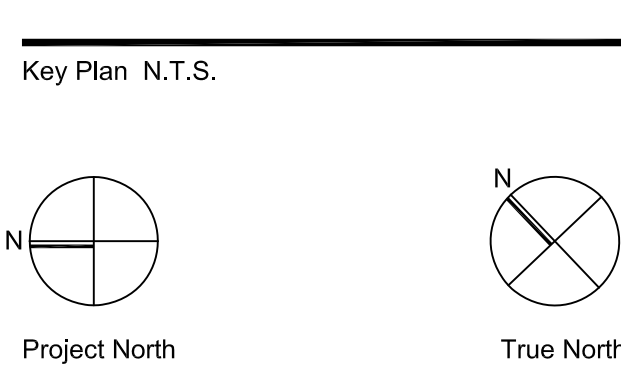
- PW1** 16mm GB-AR
VAPOUR RETARDER
92mm METAL STUDS @ 400 O.C. WITH
75mm BATT INS.
AIR BARRIER SHEET MEMBRANE
EXISTING BLOCK
- PW2** 16mm GB-AR
152mm METAL STUDS @ 400 O.C. WITH
EXISTING BLOCK
- PW8** 190mm CONCRETE BLOCK

RENOVATION NOTES

- 1a** SC01 TO 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.)
- 1b** SC08 TO PROVIDE NEW VCT FLOOR FINISH PATCHWORK AND NEW BASE AT NEW WALL.
- 1c** SC01 TO CLEAN UP EXISTING FLOORING AND PREPARE EXISTING CONCRETE SLAB AND SC08 TO PROVIDE NEW PEDESTRIAN COATING
- 1d** SC01 TO REFER TO DEMO DWGS FOR LOCATION OF NEW TRENCHES IN EXISTING FLOOR FOR NEW SERVICES. REFER TO MECH. DWGS FOR EXTENT OF WORK AFFECTING EX. CONC. SLAB (TYP.) PROVIDE BACKFILL AND NEW CONCRETE SLAB. COORDINATE WITH STRUCTURAL DWGS. SC08 TO PROVIDE NEW PEDESTRIAN COATING.
- 1e** SC01 REFER TO DEMO DWGS FOR LOCATION OF NEW TRENCHES IN EXISTING FLOOR FOR NEW SERVICES. REFER TO MECH. DWGS FOR EXTENT OF WORK AFFECTING EX. CONC. SLAB (TYP.) PROVIDE BACKFILL AND NEW CONCRETE SLAB. COORDINATE WITH STRUCTURAL DWGS. SC08 TO PROVIDE NEW TERRAZZO FLOOR AND COVERED BASE PATCHWORK.
- 2** NEW PW1 WALL BELOW WINDOW SILL.
- NOTE NO. 3 TO 7 - RESERVED
- 8** SC01 TO 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.
- 10** PAINT ALL WALLS COMPLETE. PATCH AND MAKE GOOD MILLWORK ETC).
- 11a** PATCH AND MAKE GOOD WITH 'PW8' INFILL IN EXISTING WALL FOR NEW MECH. DUCT PENETRATIONS. COORDINATE W/ MECH. AND STRUCT. DWGS. REFER TO TYP. SECTION DETAIL 9/A501
- 11b** CREATE, PATCH AND MAKE GOOD WITH 'PW8' 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
- 11c** PATCH AND MAKE GOOD WITH NEW GYPSUM BOARD WALL INFILL IN EXISTING WALL FOR NEW MECH. DUCT PENETRATION.
- 12** NEW LIGHT FIXTURES. REFER TO A300 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 FOR TYPE AND DETAIL OF CEILING. COORDINATE W/ ELEC. DWGS
- 13a** PROVIDE NEW MANUAL WINDOW SHADES WITH WOOD BLOCKING AT WINDOW HEADS FOR INSTALLATION IN STAFF ROOM.
- 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).
- NOTE NO. 15 - RESERVED
- 16a** NEW MECH. DUCT ROOF PENETRATIONS. REFER TO MECH. AND STRUCT. DWGS FOR SCOPE COORDINATION. REFER TO TYP. SECTION DETAILS ON DWG A501
- NOTE NO. 17 TO 28 - RESERVED
- 29** SC01 TO PROVIDE NEW 100mm THICK CONCRETE PADS UNDER NEW MECH. EQUIPMENTS.
- 30** SC05 TO PROVIDE STRUCTURAL SUPPORTS FOR NEW ROOF PENETRATIONS. REFER TO STRUCTURAL & MECH. DWGS FOR COORDINATION

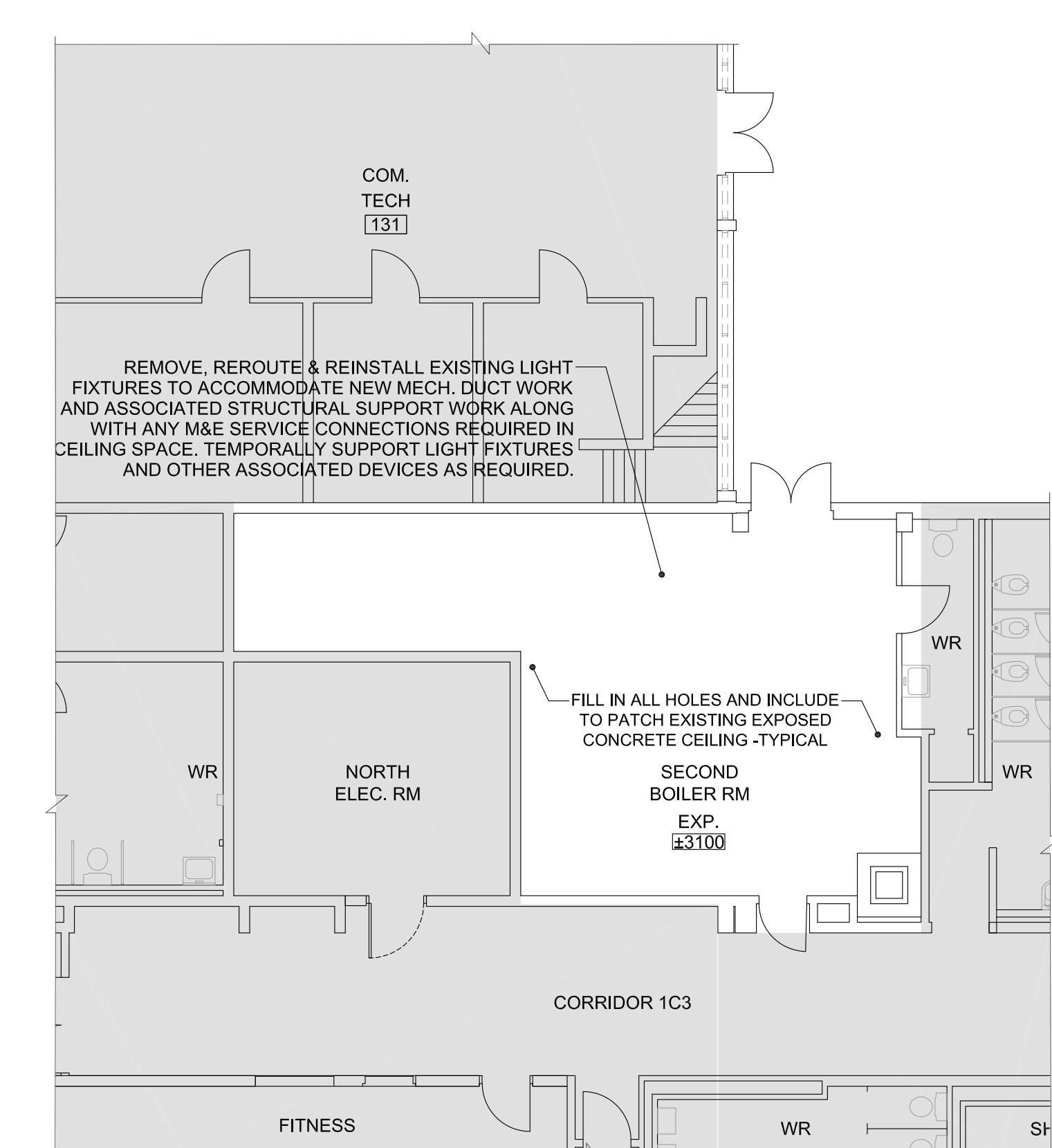


1 FIRST FLOOR PARTIAL RENOVATION PLAN (BOILER RM, CUSTODIAN RM, CORRIDORS AND STAFF RM)
 A300 1:100



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2 FIRST FLOOR PARTIAL RENOVATION PLAN (SECOND BOILER ROOM)
 A300 1:100

REFLECTED CEILING PLAN LEGEND

ACT-#
AFF ACOUSTIC CEILING TILE (ACT)

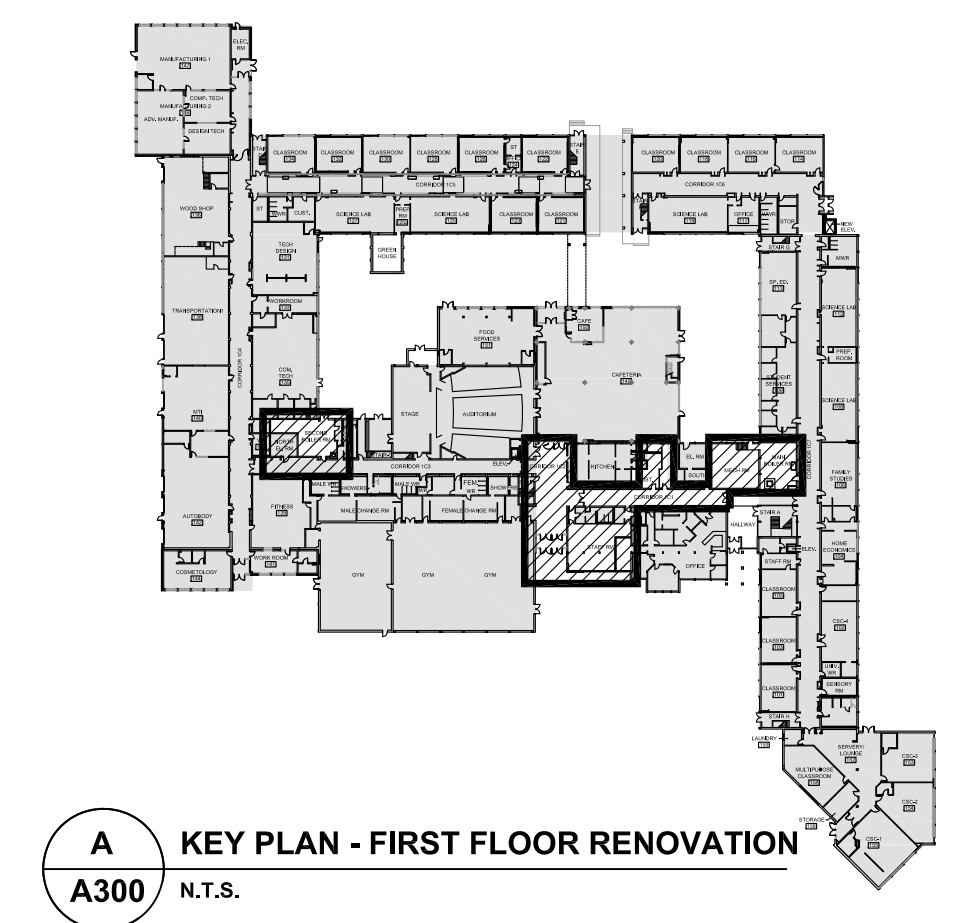
GB
AFF GYPSUM BOARD CEILING (GB-CLG)

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.



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

Drawing Title:
FIRST FLOOR PARTIAL RENOVATION REFLECTED CEILING PLAN

Scale: 1:100 Date: 09/09/2024

Drawn by: MS Checked by:

Job No. 2323-2 Drawing No. A 300