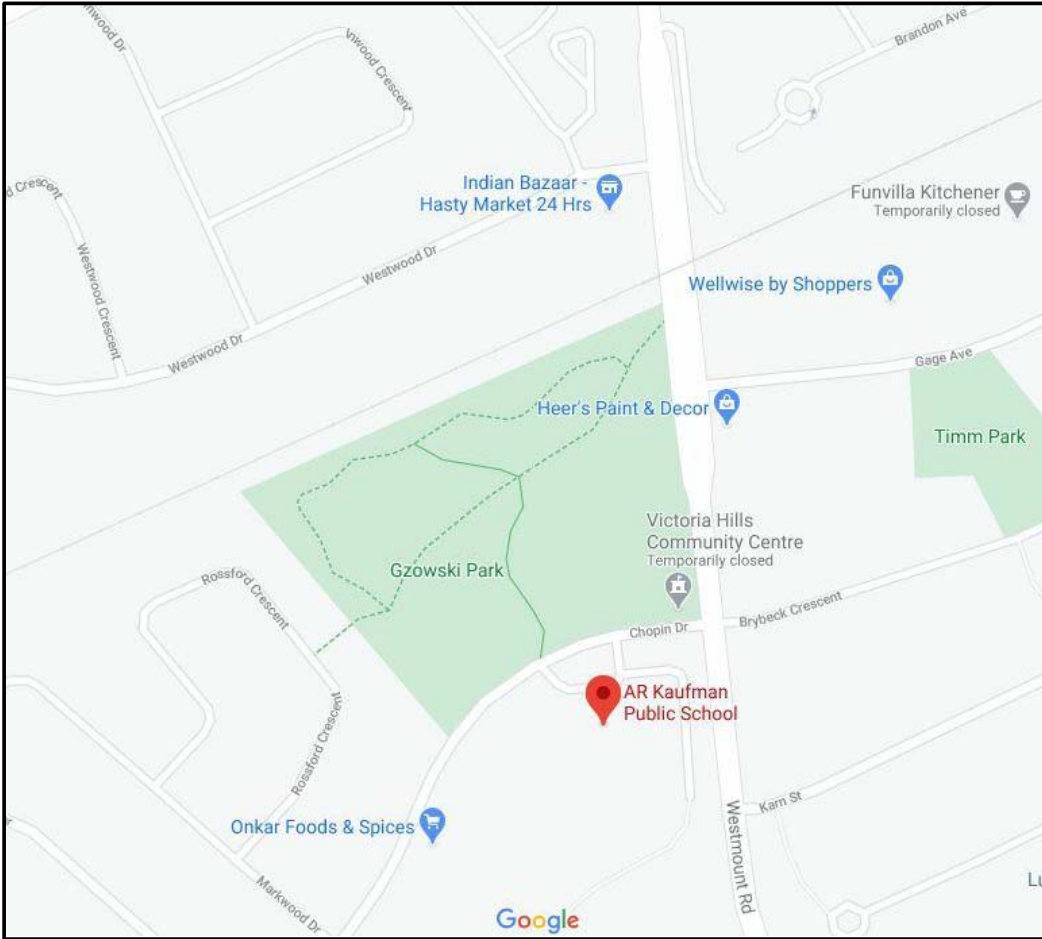


KEY PLAN



Tender No. 25-7729-RFT  
HILLSIDE PUBLIC SCHOOL:  
OFFICE AND STAFF ROOM RENOVATION

11 Chopin Dr. Kitchener, ON  
25 03 21



HILLSIDE PUBLIC SCHOOL MAIN  
OFFICE & CLASSROOM RENOVATION

ARCHITECTURAL

- A01 FIRE SEPARATIONS, OBC MATRIX & KEYPLAN
- A02 DEMOLITION FLOOR PLANS & RCP
- A03 PROPOSED PLANS, RCP, INTERIOR ELEVATIONS & DETAILS
- A04 INTERIOR ELEVATIONS, ENLARGED WASHROOM PLANS & FLOOR PATTERN

STRUCTURAL

- S01 GENERAL NOTES & TYPICAL DETAILS
- S02 FRAMING PLANS & DEMOLITION PLANS

MECHANICAL

- M101 NOTES, LEGEND, SHCEDULES & AREA OF WORK PLAN
- M102 GROUND FLOOR PART PLANS - BELOW GRADE DRAINAGE
- M202 GROUND FLOOR PART PLANS - ABOVE GRADE PLUMBING & DRAINAGE
- M203 GROUND FLOOR PART PLANS - HVAC
- M301 MECHANICAL DETAILS AND SPECIFICATIONS

ELECTRICAL

- E101 AREA OF WORK, LEGEND AND DETAILS
- E201 GROUND FLOOR DEMOLITION AND RENOVATION - LIGHTING
- E202 GROUND FLOOR DEMOLITION AND RENOVATION - POWER AND SYSTEMS

SET No.

PROJECT NUMBER

24143

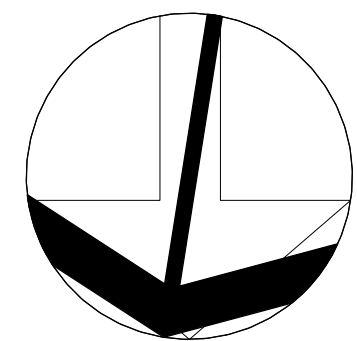
## SYMBOLS AND REFERENCE BUBBLE LEGEND

	DETAIL REFERENCE - SEE DETAIL BOOK
	DETAIL No.
	DRAWING WHERE DETAIL IS SHOWN
	ELEVATION No.
	DRAWING WHERE ELEVATIONS IS SHOWN
	BUILDING SECTION No.
	DRAWING WHERE SECTION IS SHOWN
	WALL SECTION No.
	DRAWING WHERE WALL SECTION IS SHOWN
	ELEVATION DATUM
	SCREEN TYPE - SEE SECTION D600 IN DETAIL BOOK
	WINDOW TYPE - SEE SECTION 801 IN DETAIL BOOK
	WALL TYPE
	ROOM No. - SEE SPECS FOR ROOM FINISH SCHEDULE
	DOOR No. - SEE SPECS FOR DOOR AND HARDWARE SCHEDULE

## OBC DATA MATRIX - PART 11

Item	HILLSIDE PUBLIC SCHOOL, 11 Chopin Drive	OBC Ref.
11.1	Describe Existing Use: ELEMENTARY SCHOOL (NOT SPRINKLERED) Construction Index: 5 - Non-combustible construction Hazard Index: 6 - Large Building - A2 Occupancy Not applicable (no change of major occupancy)	11.2.1 11.2.1.1A 11.2.1.1B to N
11.2	Alteration to Existing Building is: Basic Renovation: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extensive Renovation: <input type="checkbox"/>	11.3.3.1 11.3.3.2
11.3	Structural: By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: N/A <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage-system: N/A <input checked="" type="checkbox"/> No <input type="checkbox"/> 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: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: N/A <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage-system: N/A <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
11.5	Compliance Alternatives Proposed: <input checked="" type="checkbox"/> No (not required) <input type="checkbox"/> Yes (give number(s))	11.5.1
11.6	Alternative Measures Proposed: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain)	11.5.2

1	PROJECT DESCRIPTION: 1 STOREY PUBLIC SCHOOL <input type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input type="checkbox"/> CHANGE OF USE <input checked="" type="checkbox"/> ALTERATION <input type="checkbox"/> PART 3 <input checked="" type="checkbox"/> PART 11
14	PROJECT NAME & ADDRESS: HILLSIDE PUBLIC SCHOOL - OFFICE & CLASSROOM RENOVATION 11 CHOPIN DR., KITCHENER, ON
2	MAJOR OCCUPANCY(S): GROUP A, DIVISION 2
3	BUILDING AREA (SQ.M.): EXIST. 4,857 NEW N/A TOTAL 4,857
4	GROSS AREA (SQ.M.): EXIST. 4,857 NEW N/A TOTAL 4,857
5	NO. OF STOREYS ABOVE GRADE: 1 BELOW GRADE: 0
6	NUMBER OF STREETS/ACCESS ROUTES: 2
7	BUILDING CLASSIFICATION: 3.2.2.24 Group A, Division 2 - NON CONFORMING
8	SPRINKLER SYSTEM PROPOSED: <input type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> BASEMENT ONLY <input type="checkbox"/> IN LIEU OF ROOF RATING <input checked="" type="checkbox"/> NOT REQUIRED
9	STANDPIPE REQUIRED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
10	FIRE ALARM REQUIRED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
11	WATER SERVICE/SUPPLY IS ADEQUATE: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
12	HIGH BUILDING: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
13	PERMITTED CONSTRUCTION: <input type="checkbox"/> COMBUSTIBLE <input checked="" type="checkbox"/> NON COMBUSTIBLE <input type="checkbox"/> BOTH
14	MEZZANINE(S) AREA (SQ.M.): N/A
15	OCCUPANT LOAD BASED ON <input type="checkbox"/> sq.m./PERSON <input checked="" type="checkbox"/> DESIGN OF BUILDING BASEMENT OCCUPANCY N/A LOAD N/A PERSONS 1ST FLOOR OCCUPANCY A2 LOAD PERSONS 2ND FLOOR OCCUPANCY N/A LOAD PERSONS
16	BARRIER-FREE DESIGN: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
17	HAZARDOUS SUBSTANCES: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
18	REQUIRED FIRE RESISTANCE RATING (FRR) HORIZONTAL ASSEMBLIES FRR (HOURS) LISTED DESIGN NO. OR DESCRIPTION (SG-2) FLOOR(S) 1 HOURS N/A ROOF 0 HOURS N/A MEZZANINE N/A HOURS N/A FRR OF SUPPORTING MEMBERS LISTED DESIGN NO. OR DESCRIPTION (SG-2) FLOOR(S) 1 HOURS N/A ROOF 0 HOURS N/A MEZZANINE N/A HOURS N/A
19	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS (NON-COMBUSTIBLE) WALL AREA OF EBF (sq.m.) L.D. (m) L/H OR H/L PERMITTED MAX. % OF OPENINGS PROPOSED % OF OPENINGS NORTH N/A N/A N/A N/A N/A SOUTH N/A N/A N/A N/A N/A EAST N/A N/A N/A N/A N/A WEST N/A N/A N/A N/A N/A
20	OTHER - DESCRIBE - AREA OF RENOVATION IS 365 SQ.M.



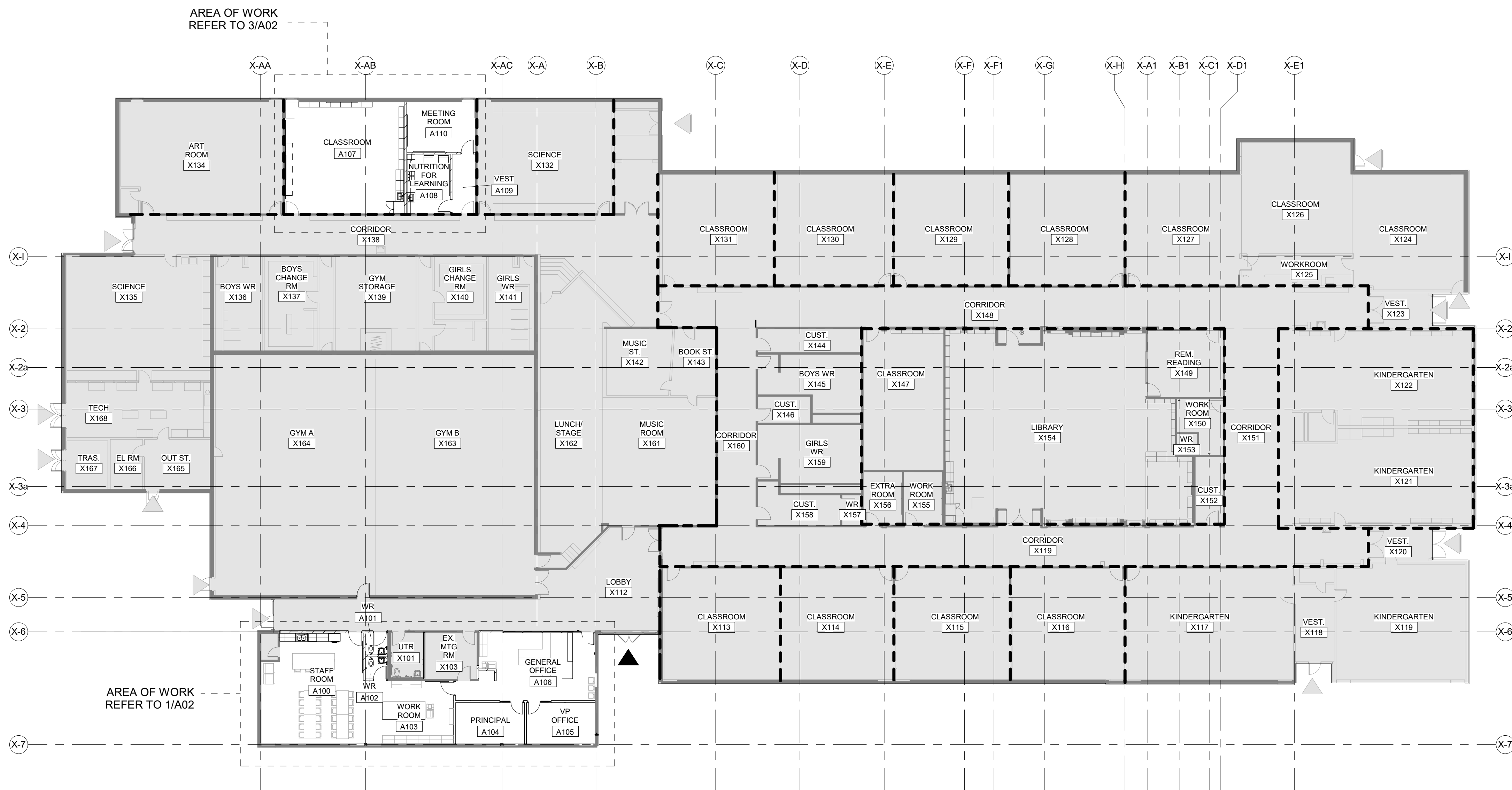
## FIRE SEPARATION LEGEND

EXISTING 45 MIN FIRE SEPARATION

EXISTING 1 HOUR FIRE SEPARATION

TABLE B - FIRE RESISTANCE RATINGS FOR REINFORCED PRESTRESSED CONCRETE FLOORS AND ROOF SLABS (PER OBC 2005 S8.2 - TABLE 2.2.1.A)			
ACTUAL EQUIVALENT THICKNESS (mm)	SLAB DEPTH (mm)	REQ. EQ. T. (mm)	FIRE RESIST. RATING
136	250mm	87	1-HR

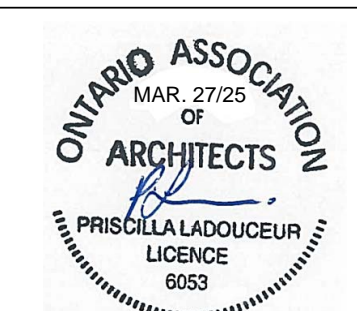
TABLE A - FIRE RESISTANCE RATINGS FOR CONCRETE BLOCK PARTITIONS (PER OBC 2012 S8.2 - TABLE 2.1.1)			
ACTUAL BLOCK THICKNESS (mm)	CONCRETE OPTIONS (mm)	REQ. EQ. T. (mm)	FIRE RESIST. RATING
136	100mm HOLLOW WEIGHT	66	1-HR
81	140mm HOLLOW WEIGHT	73	1-HR
66	90mm HOLLOW LIGHT WEIGHT	74	1-HR
74	80mm 75% SOLID NORMAL WEIGHT		



1 GROUND FLOOR KEY PLAN  
A01 SCALE: 1:200

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER & BP	25/03/27

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.



## HILLSIDE PUBLIC SCHOOL MAIN OFFICE &amp; CLASSROOM RENOVATION

11 CHOPIN DRIVE, KITCHENER, ON



Waterloo Region District School Board

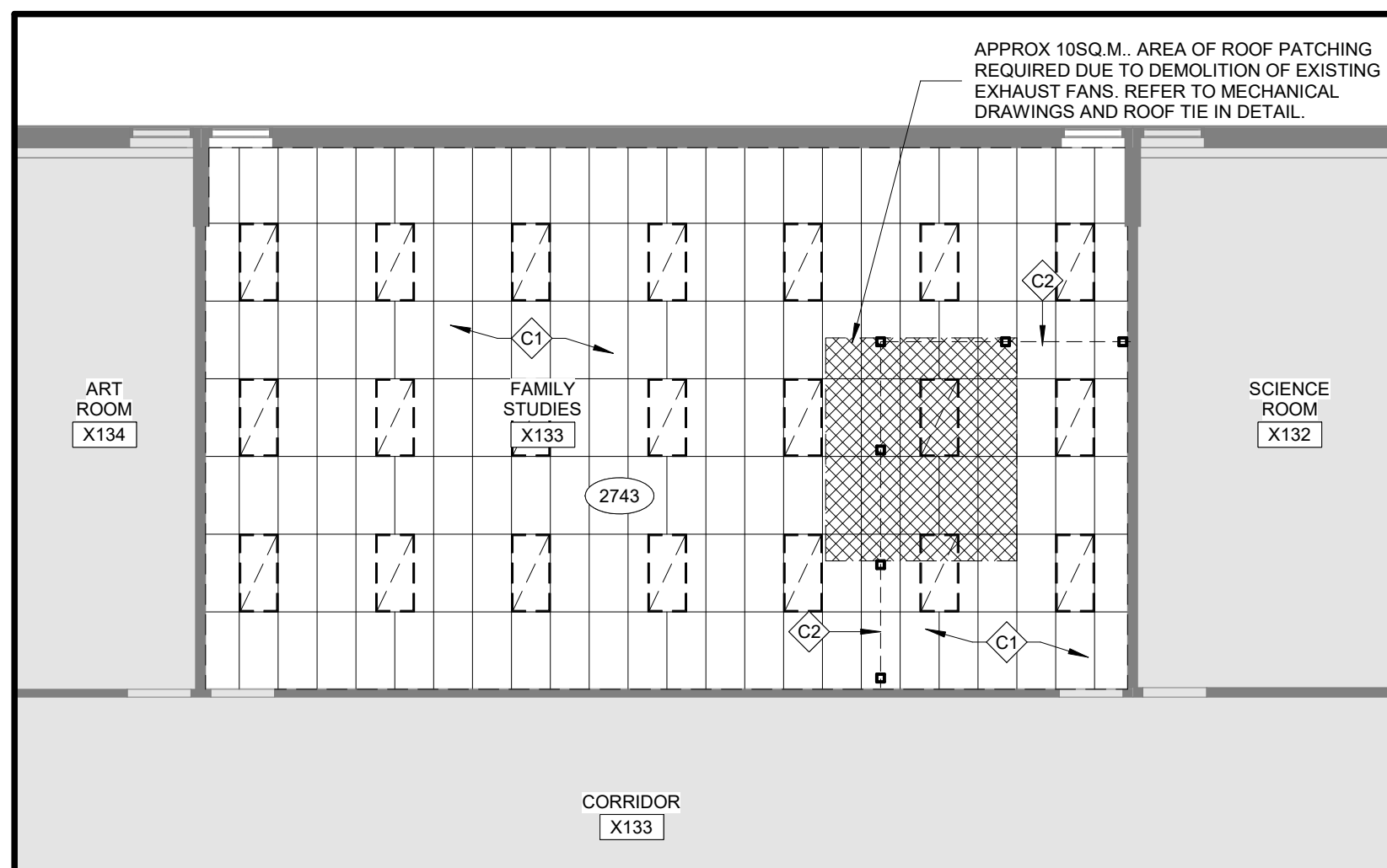
## FIRE SEPARATION, OBC MATRIX &amp; KEY PLAN

## HOSSACK ARCHITECTURE

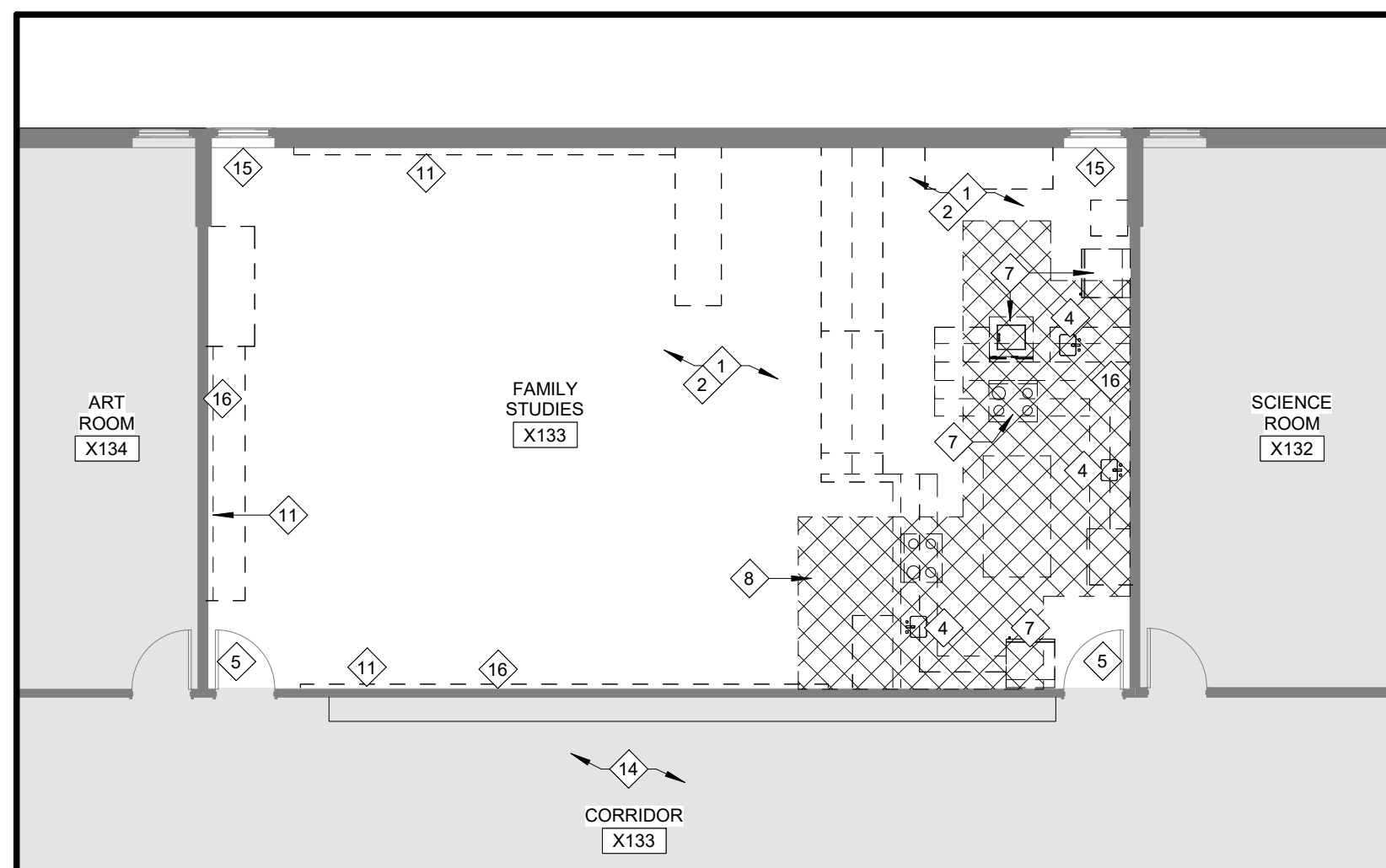


SCALE	PROJECT
As indicated	24143
DATE	25 03 21
DRAWN	DRAWING
T.C.U.K.	
CHECKED	PL
PRINT DATE	3/27/2025 12:39:57 PM
REVIT FILE	T:\2015\1512102\Revit.RVT





**4**  
**A02** PARTIAL DEMOLITION REFLECTED CEILING PLAN - FAMILY STUDIES  
SCALE: 1: 100



**3**  
**A02** PARTIAL FLOOR PLAN DEMOLITION - FAMILY STUDIES  
SCALE: 1: 100

#### GENERAL DEMOLITION NOTES

##### for Demolition Floor Plans and Reflected Ceiling Plans

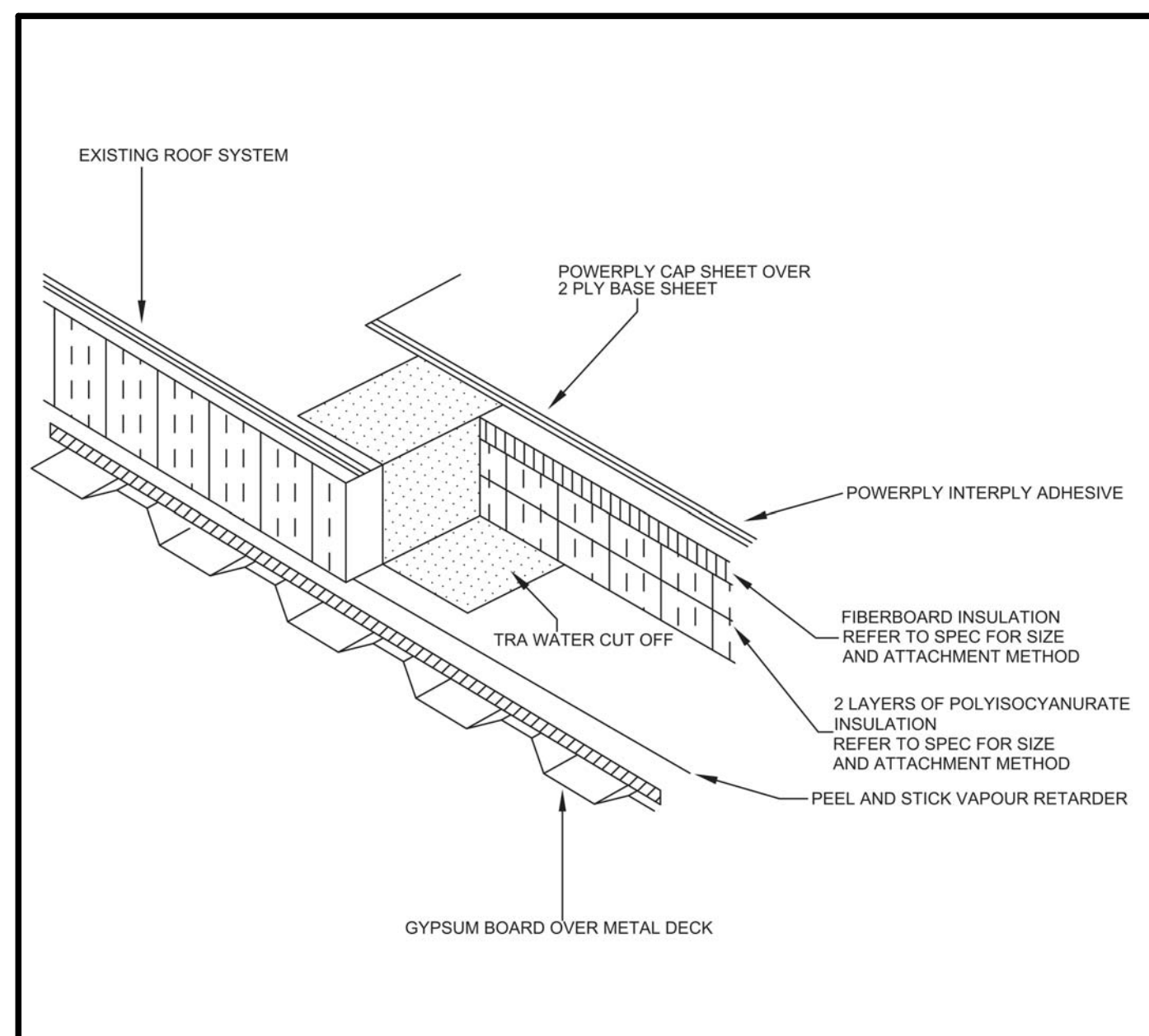
- REMOVE ANY LEFTOVER EXISTING MOUNTING HARDWARE, FITTINGS ETC. ON WALLS INCLUDING, BUT NOT LIMITED TO, BRACKETS, SHELVING AND WINDOW COVERINGS BEING REMOVED AND NOT NOTED FOR RE-INSTALLATION IN AREA OF WORK. PATCH AND MAKE GOOD HOLES IN WALL FROM FITMENT REMOVAL AS REQUIRED FOR NEW FINISHES.
- PATCH AND MAKE GOOD ANY MINOR HOLES DUE TO HARDWARE IN EXISTING WALLS TO PREPARE FOR NEW FINISHES.
- OWNER TO REMOVE ALL LOOSE FURNITURE, PLAQUES, MIRRORS AND ARTWORK PRIOR TO DEMOLITION, PATCH AND MAKE GOOD ANY MINOR HOLES FROM REMOVALS IN EXISTING WALLS TO PREPARE FOR NEW FINISHES.
- ALL PERIMETER WALLS IN AREA OF WORK TO REMAIN SHALL RECEIVE NEW PAINT FINISH. REFER TO ROOM FINISH SCHEDULE.
- FOLLOWING REMOVALS OF FLOORING, ENSURE PREPARATION FOR NEW SURFACES INCLUDING REQUIRED, GRINDING, PATCHING AND LEVELING TO SUIT NEW FLOORING DEPTHS AND FLUSH TRANSITIONS. REFER TO SPECIFICATION AND FINISH SCHEDULE.
- WHERE APPLICABLE LEVEL ALL EXISTING FLOORS AND CONNECTIONS BETWEEN NEW AND EXISTING FLOORS AS REQUIRED TO RECEIVE NEW FLOOR FINISHES. FEATHER NEW CONCRETE SLABS FOR TRANSITION AT EXISTING WITH REQUIRED FINISHES. INSTALL REQUIRED TRANSITION PIECES BETWEEN VARIOUS FLOOR FINISHES SUITABLE FOR CONDITIONS AND ACCEPTABLE TO THE OWNER. MATCH EXISTING WHERE NOTED. REFER TO ROOM FINISH SCHEDULE FOR REQUIRED FLOOR FINISHES AND LOCATIONS.
- COORDINATE AND PREPARE FOR NEW WORK INCLUDING REMOVALS, CUTTING, PREPARATION ETC. WHETHER ITEMS ARE SHOWN ON DEMOLITION PLAN OR NOT. INCLUDE ALL REQUIREMENTS FOR DEMOLITION AND PREPARATION TO SUIT PROPOSED FLOOR PLANS. ALL NECESSARY DISCONNECTS AND ALTERATIONS TO EXISTING MECH AND ELECTRICAL SYSTEMS SHALL BE INCLUDED. PATCH AND MAKE GOOD ALL EXISTING FINISHES TO REMAIN. REFER TO SCHEDULES AND SPECIFICATIONS FOR OTHER NECESSARY REQUIREMENTS.
- REFER TO STRUCT. DWGS. FOR TYPICAL FLOOR INFILL DETAILS.
- PATCH AND MAKE GOOD ANY EXISTING HOLES DUE TO MECHANICAL / STRUCTURAL / ELECTRICAL PENETRATIONS INCLUDING MATCHING NON-RATED FIRE SEPARATIONS AT ALL REQUIRED WALLS AND BETWEEN FLOORS.
- RENOVATED AREAS TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION. ALL OF CONSTRUCTION DUST, DEBRIS AND MATERIALS.
- ALL DIMENSIONS IN AREA OF WORK TO BE FIELD VERIFIED BY G.C. PRIOR TO START OF CONSTRUCTION.
- WHERE PATCH AND MAKE GOOD OCCURS, ENTIRE WALL PLANE SHALL BE PAINTED, INCLUDING WHERE DEFICIENCY CORRECTIONS OCCUR.
- WHERE BLOCK IS PATCHED, CONTRACTOR SHALL USE A SAND-BASED GROUT. DRYWALL COMPOUND WILL NOT BE ACCEPTED.

#### DEMOLITION NOTES- REFLECTED CEILING PLAN

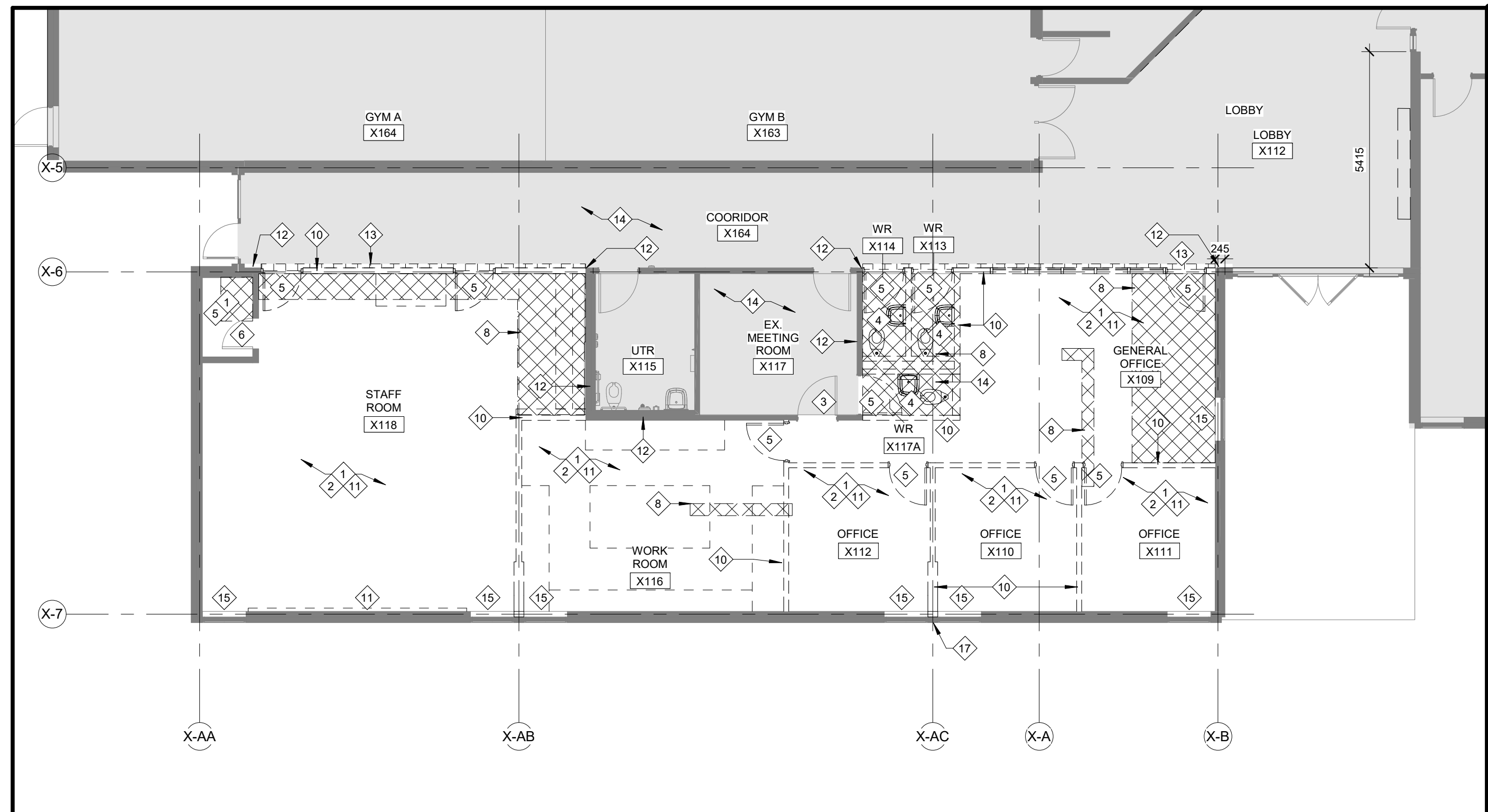
- REMOVE EXISTING ACOUSTIC CEILING TILES, GRIDS, DIFFUSERS, LIGHTING, RETURNS, ETC. IN ENTIRE ROOM. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LIGHTING AND HVAC REMOVALS AND RELOCATIONS AND REQUIRED SPRINKLER HEAD / PIPING MODIFICATIONS NOT SHOWN ON THIS DRAWING. PATCH AND MAKE GOOD EXISTING WALLS TO REMAIN AS REQUIRED FOR NEW CEILING.
- REMOVE EXISTING UPPER CABINET SUSPENDED STRUCTURE IN ITS ENTIRETY.
- CAREFULLY REMOVE PORTION OF EXISTING CEILING TILES, GRIDS, DIFFUSERS, LIGHTING, RETURNS, ETC. EXTEND SHOWN, AS REQUIRED FOR NEW BLOCK WALL. SAFELY STORE ON SITE EXISTING TILES FOR RE-INSTALLATION. REFER TO MECH. & ELEC. DWGS. G.C. TO REPLACE ANY DAMAGED TILES.

#### DEMOLITION NOTES

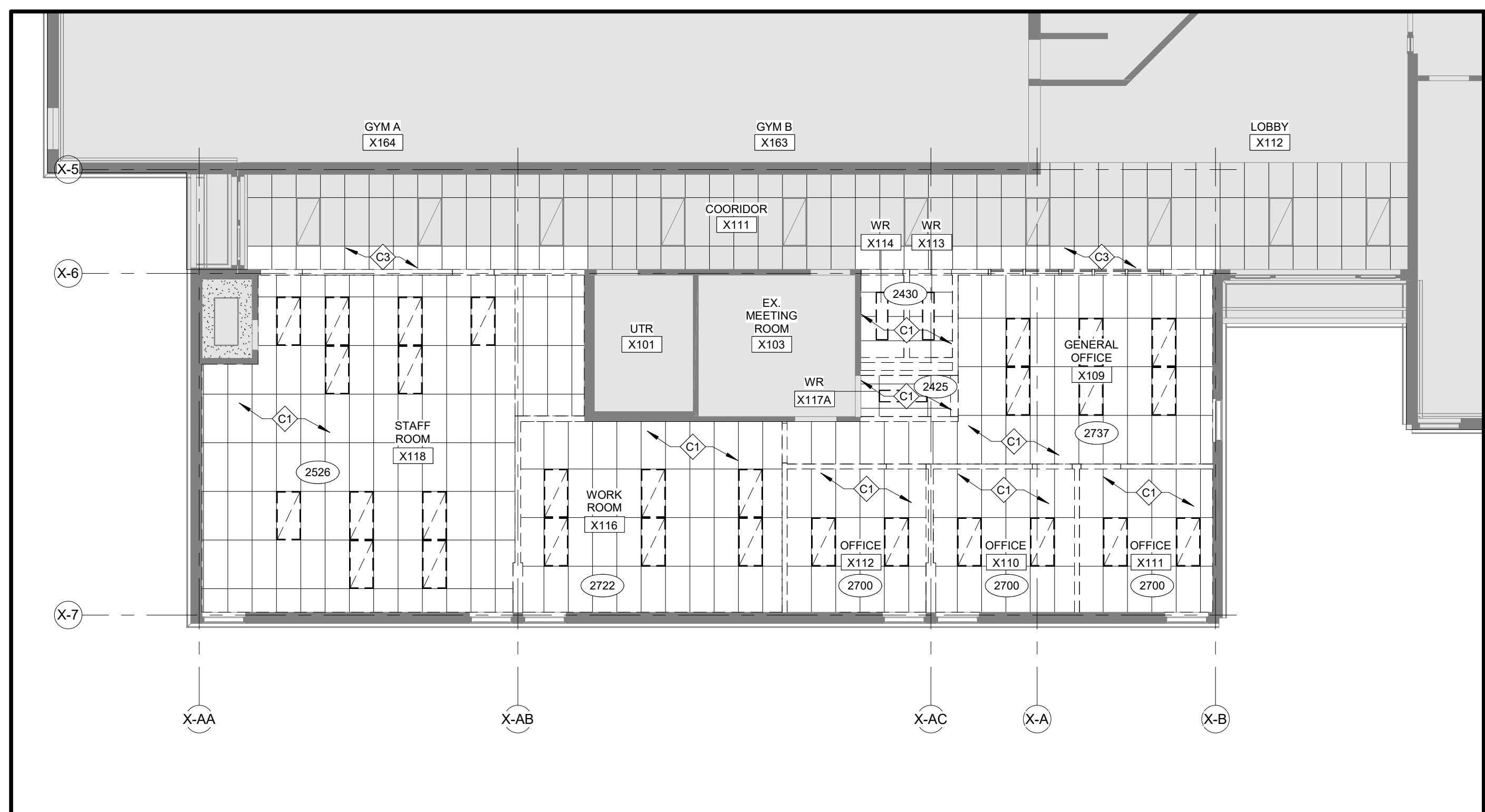
- REMOVE EXISTING FLOORING (INCLUDING CARPET, VINYL, AND PORCELAIN TILE), BASE, AND ANY UNDER PADINAILING STRIPS. PATCH AND MAKE GOOD EXISTING SUBFLOOR TO ACCEPT NEW FLOORING TO SATISFACTION OF FLOORING SUBTRADE. PATCH AND MAKE GOOD EXISTING WALLS TO REMAIN FOR NEW FINISHES. REFER TO FINISH SCHEDULE.
- REMOVE ALL EXISTING MILLWORK INCLUDING BUT NOT LIMITED TO UPPER AND LOWER CABINET, BOOKSHELVES, STORAGE CABINETS, ETC.
- REMOVE DOOR AND HARDWARE. FRAME TO REMAIN. REMOVE EXISTING LOOSE PAINT/FINISH ON EXISTING HOLLOW METAL FRAME. CONTRACTOR TO GRIND, SAND AS REQUIRED. FILL ANY HOLES IN FRAME AS REQUIRED FOR NEW COAT OF PAINT. REFER TO ROOM FINISH SCHEDULE AND DOOR SCHEDULE.
- CONTRACTOR TO DISCONNECT EXISTING SINK AND TOILET WHERE APPLICABLE (AND REMOVE ALL PLUMBING AS REQUIRED). REMOVE ACCESSORIES INCLUDING PAPER TOILET DISPENSER, SOAP DISPENSER. PATCH AND MAKE GOOD FLOOR AND WALL AS REQUIRED FOR NEW FINISHES.
- CONTRACTOR TO REMOVE EXISTING HOLLOW METAL FRAME AND DOOR IN ITS ENTIRETY. PATCH AND MAKE GOOD FOR NEW DOOR INSTALLATION.
- CONTRACTORS TO CAREFULLY REMOVE EXISTING WOOD DOORS IN AREA OF WORK AND STORE ON SITE FOR REINSTALLATION UPON PROJECT COMPLETION. REMOVE EXISTING LOOSE PAINT/FINISH ON EXISTING HOLLOW METAL FRAME. CONTRACTOR TO GRIND, SAND AS REQUIRED. FILL ANY HOLES IN FRAME AS REQUIRED FOR NEW COAT OF PAINT. REFER TO ROOM FINISH SCHEDULE AND DOOR SCHEDULE.
- REMOVE APPLIANCES INCLUDING FRIDGE, STOVE, ETC. WHERE APPLICABLE.
- REMOVE EXISTING FLOORING (INCLUDING CARPET, VINYL, AND PORCELAIN TILE), BASE AND ANY UNDER PADINAILING STRIPS. SAWCUT REINFORCED CONCRETE SLAB INCLUDING SUB-BASE AS REQUIRED FOR NEW PLUMBING LINE, CONNECTIONS & CONDUITS. COORDINATE EXACT SLAB REMOVAL LOCATIONS WITH NEW PLUMBING LINE/CONNECTIONS WITH MECH. SERVICES AND ELEC DWGS. PREPARE SURFACE FOR NEW FINISHES. REFER TO ROOM FINISH SCHEDULE.
- REMOVE EXISTING LOOSE PAINT/FINISH ON EXISTING HOLLOW METAL FRAME. CONTRACTOR TO GRIND, SAND AS REQUIRED TO REMOVE ALL SURFACE RUST. FILL ANY HOLES IN FRAME AS REQUIRED FOR NEW FINISH.
- REMOVE EXISTING WALL AND BASE (INCLUDING DOOR ASSEMBLY, FRAMES, GLAZING AND FINISHES WHERE APPLICABLE) FROM FINISHED FLOOR TO TOP OF WALL TO EXTENT SHOWN. PATCH AND MAKE GOOD FLOOR AS REQUIRED FOR NEW FINISHES. PATCH AND MAKE GOOD ADJACENT WALLS TO REMAIN WHERE APPLICABLE FOR NEW FINISHES.
- REMOVE EXISTING TACKBOARDS/WHITEBOARDS. GRIND SMOOTH WALL WHERE ADHESIVE REMAINS FROM REMOVAL. PATCH AND MAKE GOOD WALLS AS REQUIRED TO ACCEPT NEW FINISH TO SATISFACTION OF SUBTRADE. REFER TO ROOM FINISH SCHEDULE.
- CONTRACTOR TO PROTECT EXISTING BLOCK WALL TO REMAIN, IN AREA OF WORK. GRIND, PATCH & PARGE WALL AT LOCATIONS OF ADJACENT DEMOLISHED WALLS. PREPARE FOR NEW FINISH AND BASE AS REQUIRED.
- SAWCUT AND REMOVE EXISTING TERRAZZO FLOORING INCLUDING SUB-BASE TO EXISTING SLAB AND PREPARE EXISTING DEPRESSED SLAB FOR NEW TERRAZZO FLOOR TO MATCH ELEVATION OF EXISTING.
- CONTRACTOR TO PROTECT FLOORING IN AREAS OF WORK WHERE EXISTING FLOOR FINISH TO REMAIN.
- CONTRACTOR TO REMOVE AND EXISTING BLINDS AND PATCH HOLES IN BLOCK WALL. PREPARE FOR NEW FINISH.
- EXISTING GYPSUM WALL TO REMAIN. PATCH AND MAKE GOOD AS REQUIRED DUE TO REMOVALS FOR NEW FINISH.
- REMOVE AND DISPOSE OF EXISTING HOSE BIB. INFILL OPENING WITH SPRAYFOAM INSULATION AND COVER WITH SECURED PAINTED METAL PLATE



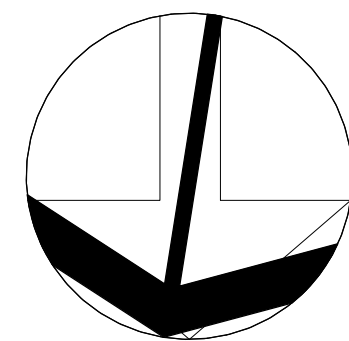
**5**  
**A02** ROOF TIE IN DETAIL TYP.  
SCALE: 1: 10



**1**  
**A02** PARTIAL FLOOR PLAN DEMOLITION - OFFICE  
SCALE: 1: 100



**2**  
**A02** PARTIAL DEMOLITION REFLECTED CEILING PLAN - OFFICE  
SCALE: 1: 100



#### WALL & FLOOR HATCH LEGEND

- EXISTING PORTIONS OF BUILDING NOT PART OF THIS RENOVATION
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE DEMOLISHED. REFER TO DEMOLITION PLANS AND NOTES
- EXISTING CONCRETE SLAB ON GRADE AND SUB-BASE TO BE REMOVED. REF. DEMOLITION PLANS & NOTES
- EXISTING TERRAZZO TO BE REMOVED. REF. DEMOLITION PLANS & NOTES
- NEW TERRAZZO INFILL. REFER TO NOTES AND ROOM FINISH SCHEDULE
- NEW CONCRETE SLAB INFILL C/W SUB-BASE AND NEW FLOOR FINISH. REF. STRUCT. DWGS. AND ROOM FINISH SCHEDULE

NO.	ISSUED FOR TENDER & BP	DATE
1	ISSUED FOR TENDER & BP	250327

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.



#### HILLSIDE PUBLIC SCHOOL MAIN OFFICE & CLASSROOM RENOVATION

11 CHOPIN DRIVE, KITCHENER, ON



#### DEMOLITION FLOOR PLAN & RCP

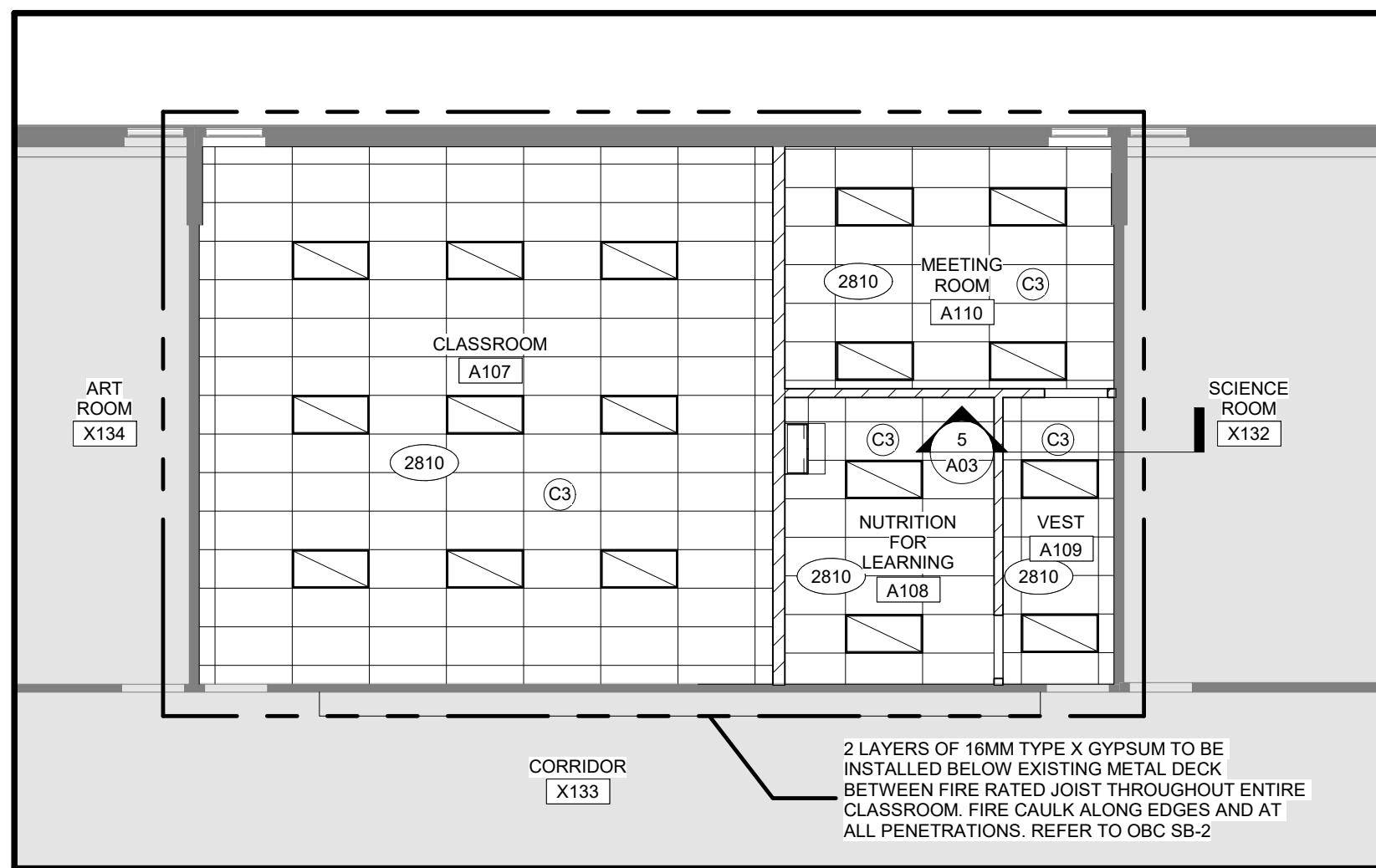
#### HOSSACK ARCHITECTURE



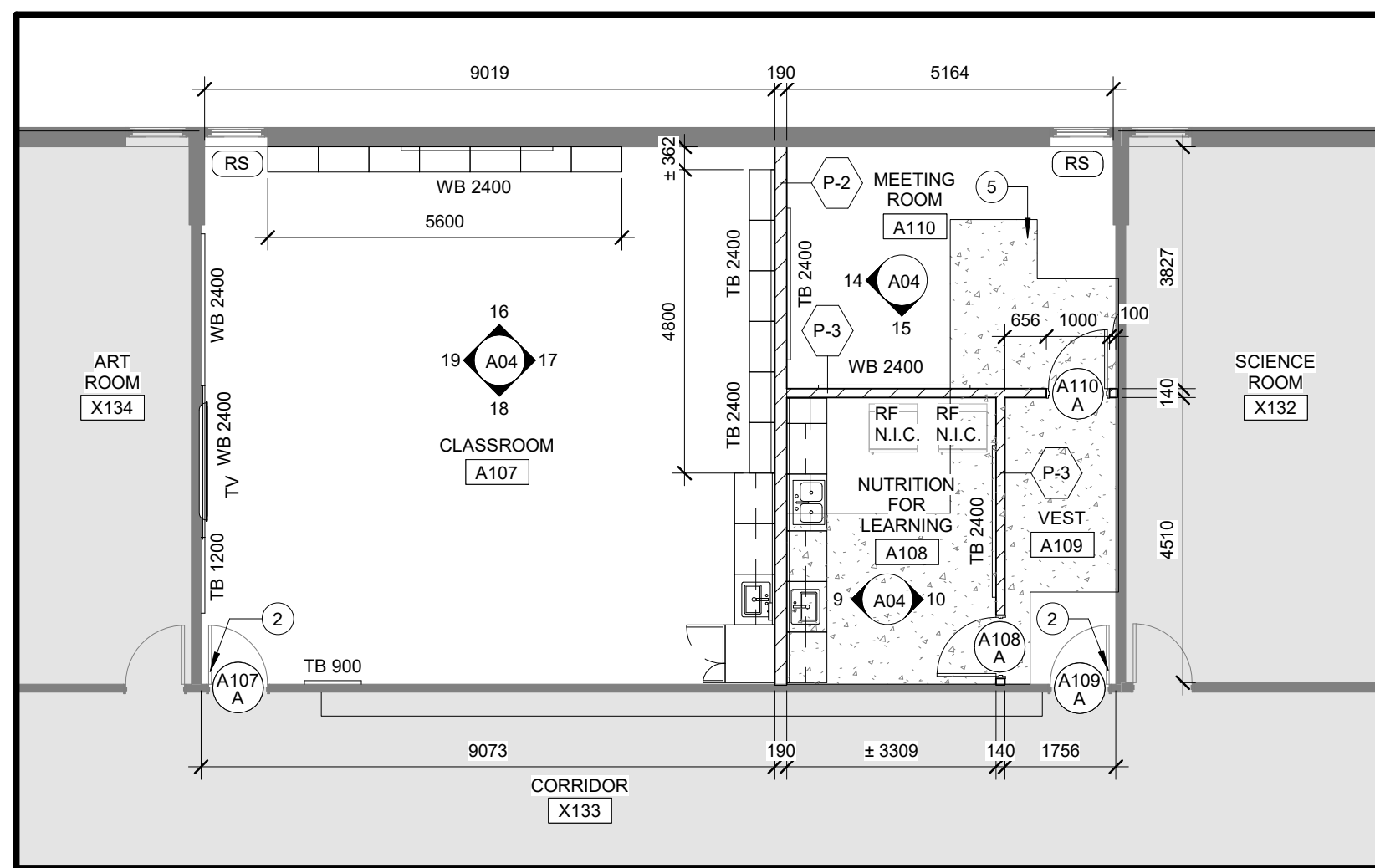
105 - 1038 BROADWAY  
SUITE 101  
K1P 6Y4  
(905) 876-8264  
info@hossackarch.com

SCALE	PROJECT
As indicated	24143
DATE	25 03 21
DRAWN	TCUJK
CHECKED	PL
PRINT DATE	3/27/2025 12:40:05 PM
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2 PARTIAL PROPOSED REFLECTED CEILING PLAN - CLASSROOM  
SCALE: 1:100



1 PARTIAL PROPOSED FLOOR PLAN - CLASSROOM  
SCALE: 1:100

#### GENERAL CONSTRUCTION NOTES

for Floor Plans and Reflected Ceiling Plans

- GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO CONSTRUCTION.
- ALL REMOVAL/DEMOLITIONS TO BE COORDINATED WITH STRUCT., MECH., ELEC. DWGS. PRIOR TO DEMOLITION. FOR ADDITIONAL DEMOLITION DOCUMENTS AND DETAILS SEE DWGS. AND SPEC.
- OWNER WILL MOVE AND RELOCATE ALL EXISTING FURNITURE AND TEACHING TOOLS WITHIN SCOPE OF WORK PRIOR TO CONSTRUCTION.
- GENERAL CONTRACTOR TO X-RAY ALL EXISTING CONCRETE FLOOR SLABS AS REQUIRED PRIOR TO ANY DEMOLITION. IF EXISTING WIRES, CONDUIT, ETC. ARE CUT DURING SLAB DEMOLITION, CONTRACTOR IS RESPONSIBLE TO RESTORE ALL DEVICES. SEE SPEC.
- CONTRACTOR TO REPAIR AND MAKE GOOD ALL EXISTING WALLS AND PAINT WITHIN CONSTRUCTION AREA (INCLUDING CORRIDORS AFFECTED BY RENOVATION) SEE SPEC.
- ALL NOTED DIMENSIONS TO EXISTING WALL ASSEMBLIES ARE +/- AND MAY VARY. CONTRACTOR TO FIELD VERIFY AS REQUIRED.
- ALL AREAS OF WORK TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION PER SPECIFICATIONS.

#### CONSTRUCTION NOTES

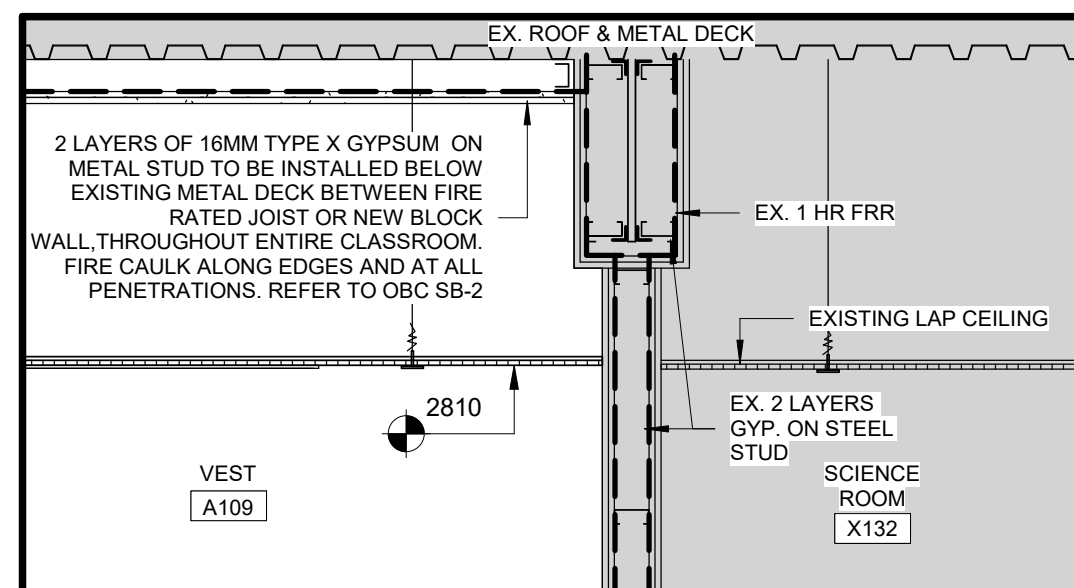
DRAWINGS TO READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

CONTRACTOR TO COORDINATE OVERALL DOOR OPENINGS SHOWN ON THIS PLAN WITH REQUIRED DOOR LEAF WIDTH AND JAMB DETAIL AS DESCRIBED IN DOORS SCHEDULE.

- SUPPLY AND INSTALL NEW DOOR TO EXISTING FRAME. REFER TO DEMOLITION PLAN & DOOR SCHEDULE.
- SUPPLY AND INSTALL NEW HOLLOW METAL DOOR & FRAME. REFER TO DEMOLITION PLAN & DOOR SCHEDULE.
- NEW TERRAZZO INFILL. REFER TO ROOM FINISH SCHEDULE FOR FLOOR FINISH. SLAB TO BE DEPRESSED IN LOCATIONS OF TERRAZZO AND PORCELAIN TILE FLOORING TO ENSURE FINISH FLOOR IS FLUSH WITH ADJACENT.
- PAINT EX. HOLLOW METAL FRAME & DOOR. REFER TO DOOR SCHEDULE.
- NEW REINFORCED CONCRETE SLAB & COMPACTED SUB-BASE INFILL AND FLOOR FINISH. REFER TO ROOM FINISH SCHEDULE FOR FLOOR FINISH. SLAB TO BE DEPRESSED IN LOCATIONS OF TERRAZZO AND PORCELAIN TILE FLOORING TO ENSURE FINISH FLOOR IS FLUSH WITH ADJACENT.
- CONTRACTOR TO GRIND AND PARGE SMOOTH EDGES OF EXPOSED BLOCK ADJACENT NEW COLUMN INSTALLATION. PREPARE FOR NEW FINISH. REFER TO ROOM FINISH SCHEDULE.

#### CONSTRUCTION NOTES - REFLECTED CEILING PLAN

- EXISTING CEILING TILES, GRID, LIGHTS & DEVICES TO BE CAREFULLY REMOVED AND REINSTALLED AS REQUIRED FOR NEW CORRIDOR WALL.
- NEW CEILING TILE & GRID INFILL AROUND NEW GYP. BULKHEAD.
- NEW GRID AND CEILING TILES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURES, ELECTRICAL AND MECHANICAL DEVICES.



5 FIRE RATING AT U/S OF DECK  
SCALE: 1:20

#### ASSEMBLY LEGEND

##### INTERIOR WALLS

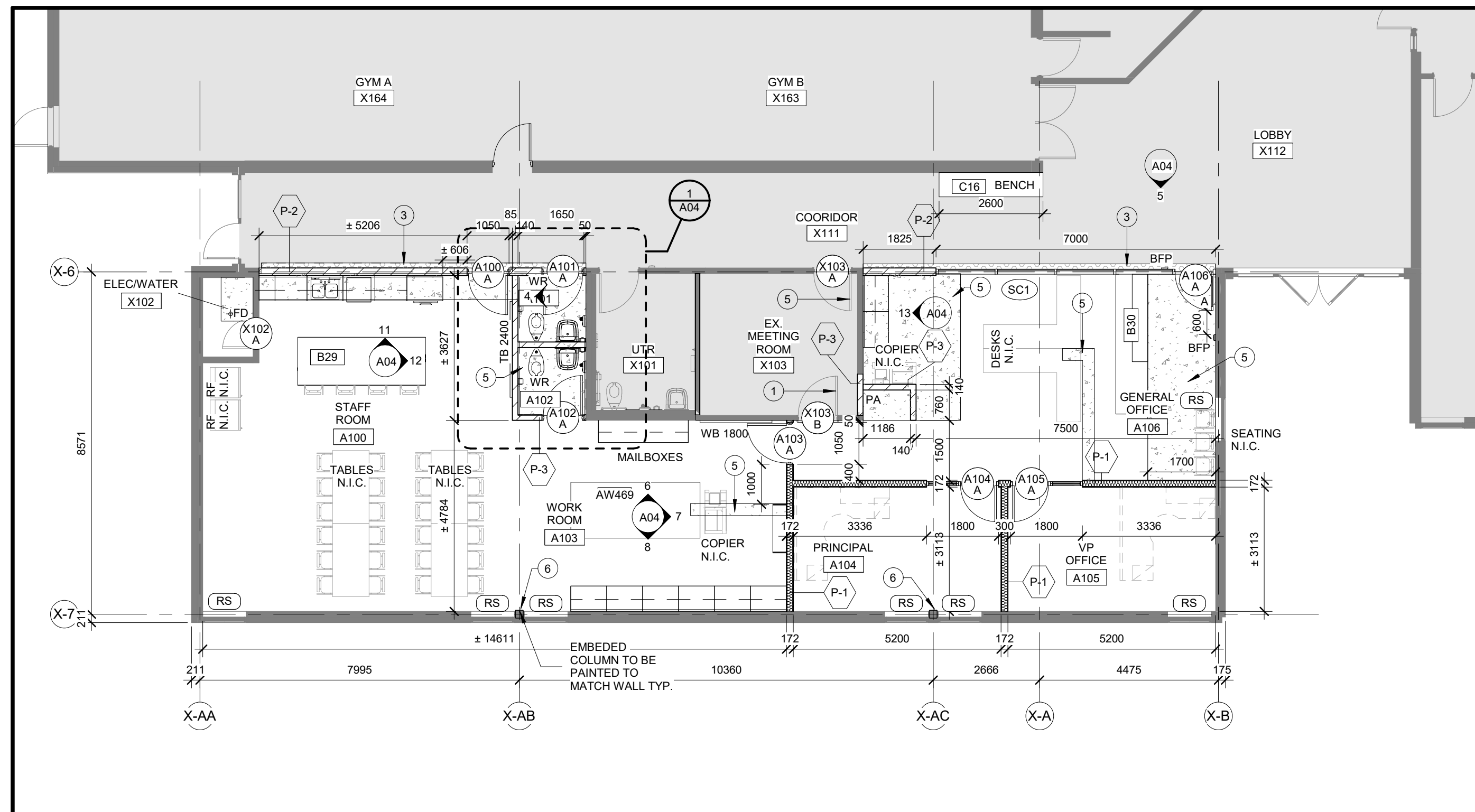
P-1	GYPSUM BOARD - 16mm GYPSUM BOARD - 140mm STEEL STUD @ 400 O.C. - FILL CAVITY WITH MINERAL WOOL - ACOUSTIC INSULATION - 16mm GYPSUM BOARD - PAINT FINISH
P-2	CONCRETE BLOCK - 190mm CONCRETE BLOCK
P-3	CONCRETE BLOCK - 140mm CONCRETE BLOCK

#### WALL & FLOOR HATCH LEGEND

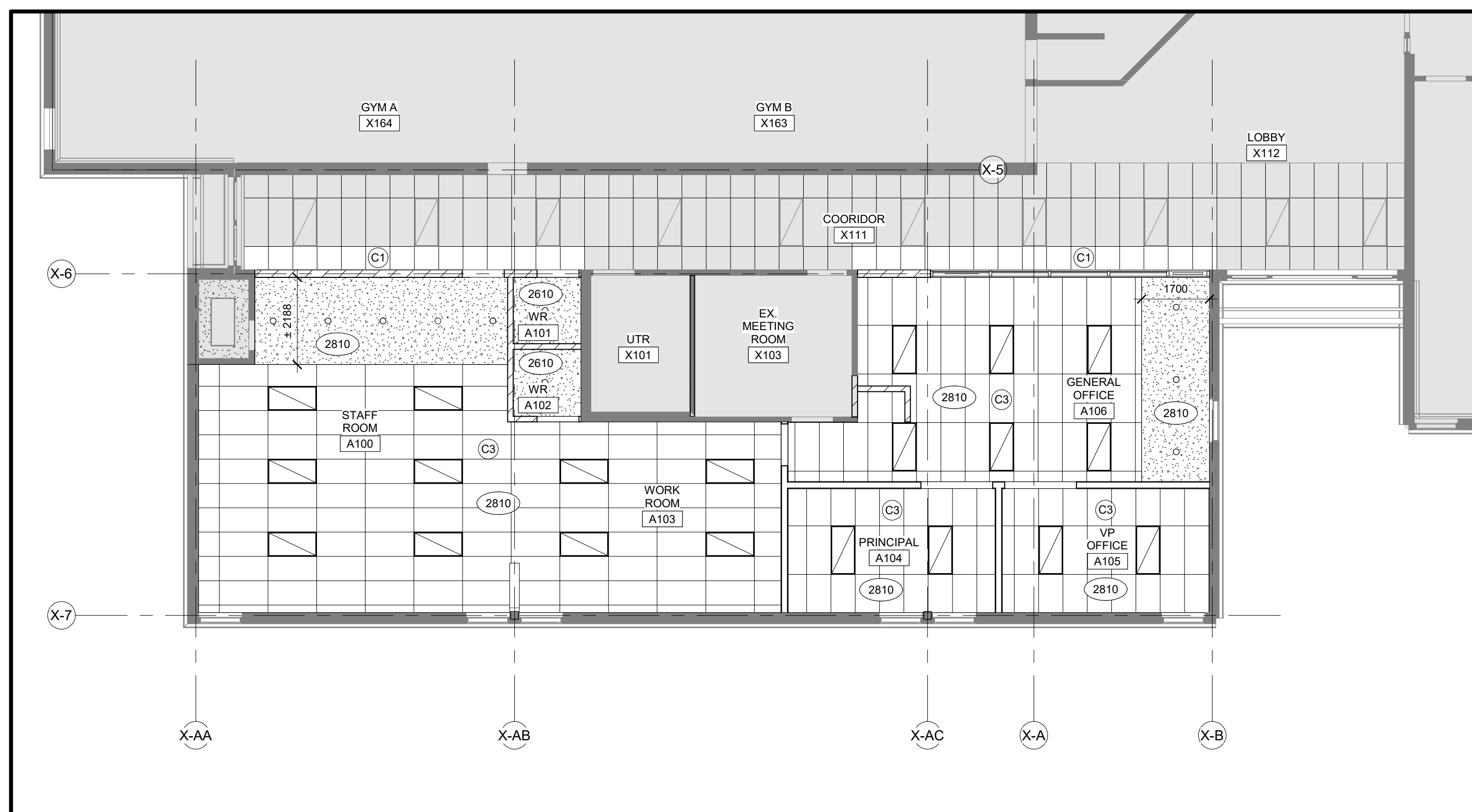
- EXISTING PORTIONS OF BUILDING NOT PART OF THIS RENOVATION
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE DEMOLISHED. REFER TO DEMOLITION PLANS AND NOTES
- EXISTING CONCRETE SLAB ON GRADE AND SUB-BASE TO BE REMOVED. REF. DEMOLITION PLANS & NOTES
- EXISTING TERRAZZO TO BE REMOVED. REF. DEMOLITION PLANS & NOTES
- NEW TERRAZZO INFILL. REFER TO NOTES AND ROOM FINISH SCHEDULE
- NEW CONCRETE SLAB INFILL CW SUB-BASE AND NEW FLOOR FINISH. REF. STRUCT. DWGS. AND ROOM FINISH SCHEDULE

#### RCP LEGEND

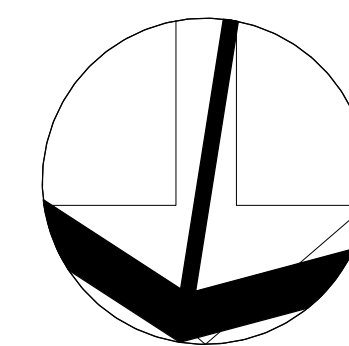
- LIGHT FIXTURE REFER TO LIGHTING PLANS/LIGHTING SCHEDULES FOR TYPE
- EXISTING LIGHT FIXTURE TO REMAIN. REFER TO ELEC. DWGS.
- ACOUSTIC CEILING PANELS REFER TO SPECIFICATIONS FOR DESCRIPTION OF TYPES
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- NEW GYPSUM BOARD CEILING
- LIGHT FIXTURE TO BE REMOVED. FOR TYPE AND MOUNTING SEE ELEC. DWGS.
- CEILING HEIGHT FROM FINISHED FLOOR
- LF LIGHT FIXTURE
- GYP GYPSUM BOARD



3 PARTIAL PARTIAL PROPOSED FLOOR PLAN - UTR  
SCALE: 1:100



4 PARTIAL PROPOSED REFLECTED CEILING PLAN - OFFICE  
SCALE: 1:100

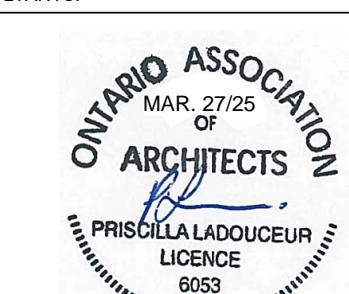


#### ABBREVIATION LEGEND

- A ACTIVE LEAF
- B/F BARRIER FREE
- BFP BARRIER FREE PUSH BUTTON
- BFO BARRIER FREE OPERATOR
- CJ CONTROL JOINT
- CONC. CONCRETE
- CONT. CONTINUOUS
- CWT CERAMIC WALL TILE
- DN DOWN
- DWGS. DRAWINGS
- EQ EQUAL
- EX EXISTING
- FD FLOOR DRAIN
- GYP GYPSUM BOARD
- HD HAND DRYER
- LF LIGHT FIXTURE
- M MIRROR
- NIC NOT IN CONTRACT
- PTD PAPER TOWEL DISPENSER
- RS ROLLER SHADES. REFER TO SPECS
- SD SOAP DISPENSER
- TB TACKBOARD
- TD TOILET PAPER DISPENSER
- TM TILT MIRROR
- WB WHITEBOARD
- WR WASHROOM

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER & BP	25/03/21

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.



HILLSIDE PUBLIC SCHOOL MAIN OFFICE & CLASSROOM RENOVATION

11 CHOPIN DRIVE, KITCHENER, ON



PROPOSED FLOOR PLANS & RCP

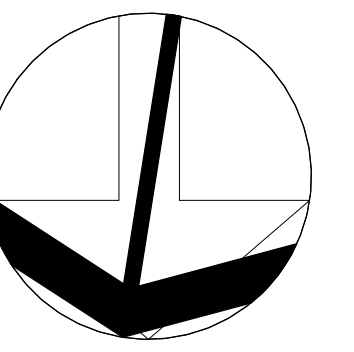
HOSSACK ARCHITECTURE



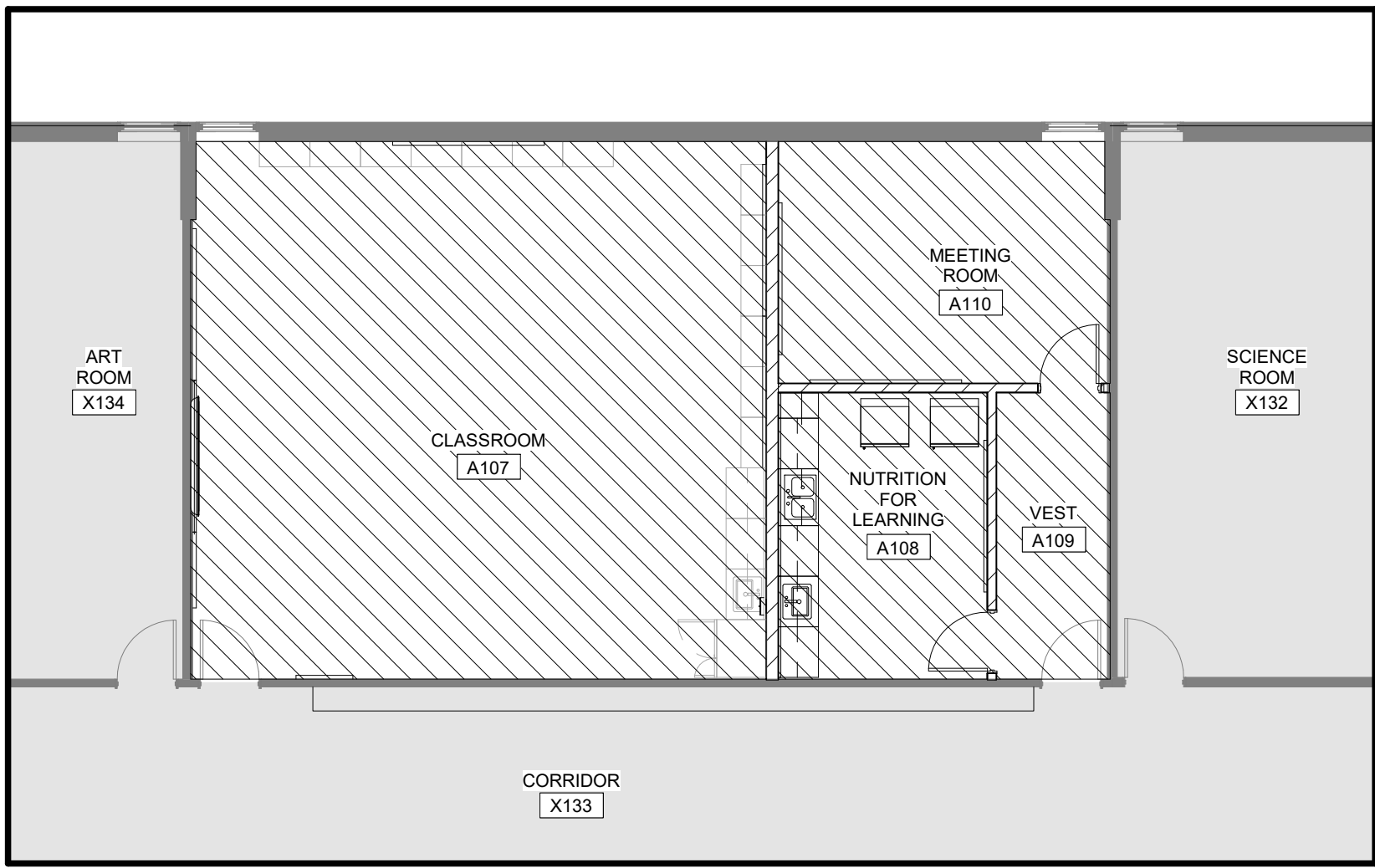
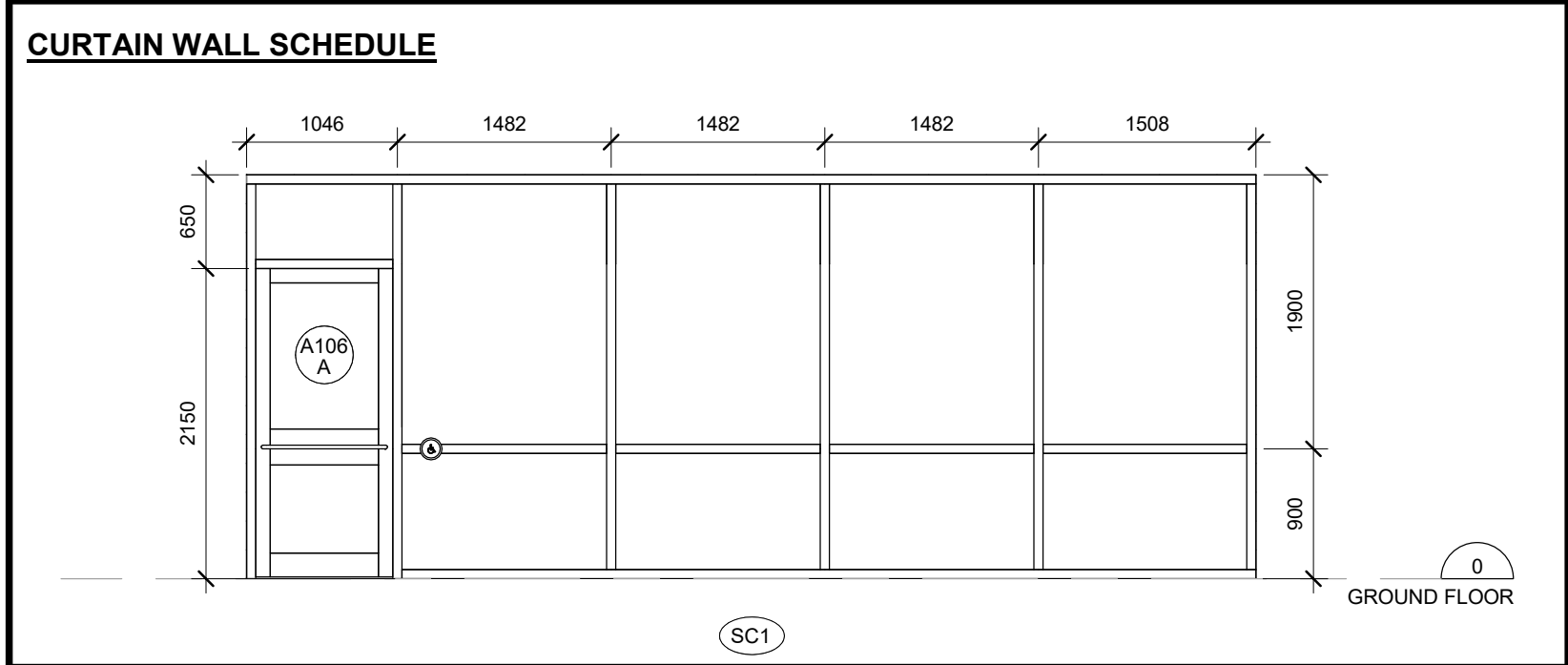
105 - 1038 IRONDAL WAY (SUITE 101) K1G 3G5

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TC/JK	
CHECKED	PL
PRINT DATE	3/27/2025 12:40:15 PM
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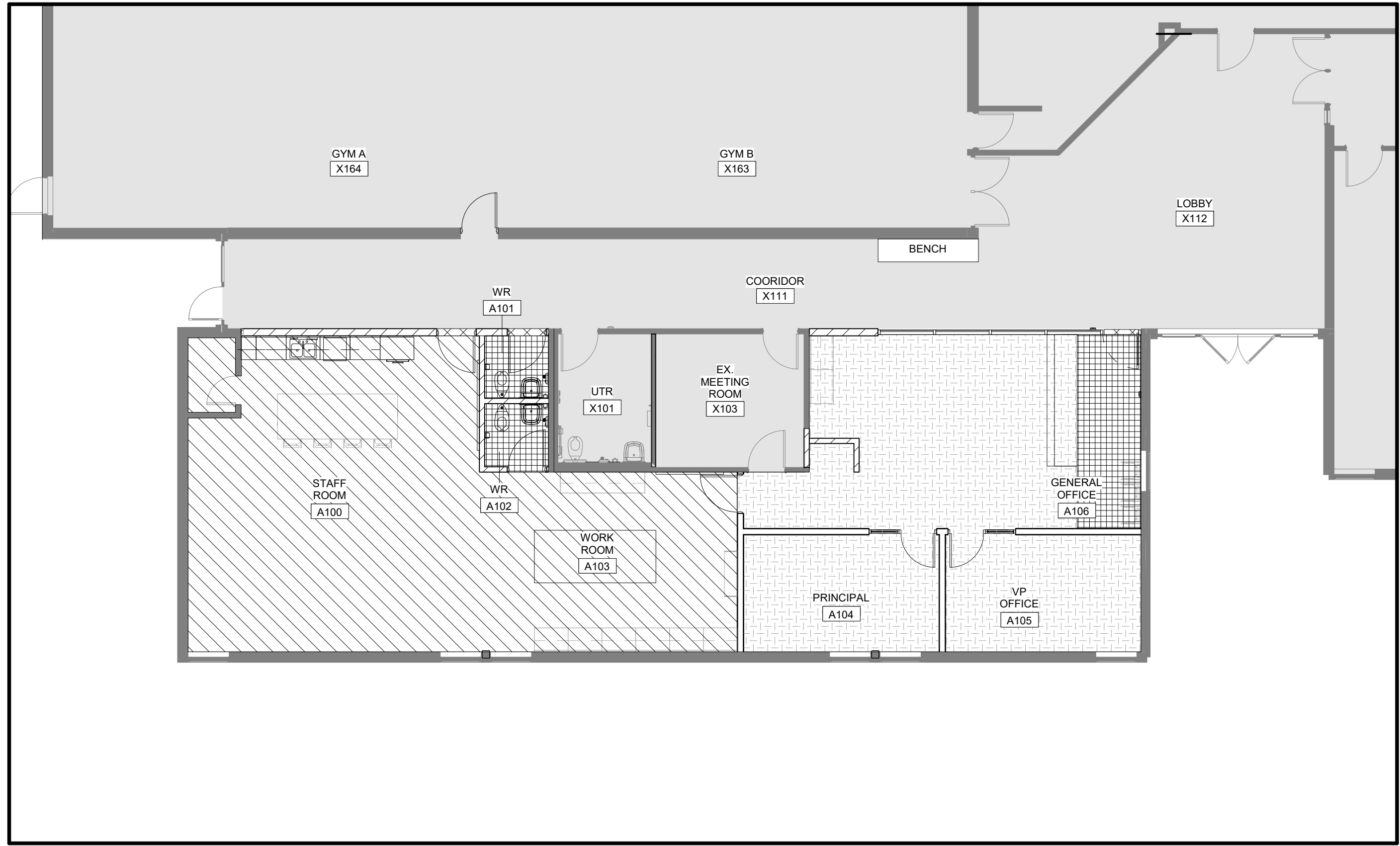




ABBREVIATION LEGEND		
A	ACTIVE LEAF	
B/F	BARRIER FREE	
BFP	BARRIER FREE PUSH BUTTON	
BFO	BARRIER FREE OPERATOR	
CJ	CONTROL JOINT	
CONC.	CONCRETE	
CONT.	CONTINUOUS	
CWT	CERAMIC WALL TILE	
DN	DOWN	
DWGS.	DRAWINGS	
EQ	EQUAL	
EX	EXISTING	
FD	FLOOR DRAIN	
GYP	GYPSONUM BOARD	
HD	HAND DRYER	
LF	LIGHT FIXTURE	
M	MIRROR	
NIC	NOT IN CONTRACT	
PTD	PAPER TOWEL DISPENSER	
RS	ROLLER SHADES. REFER TO SPECS	
SD	SOAP DISPENSER	
TB	TACKBOARD	
TD	TOILET PAPER DISPENSER	
TM	TILT MIRROR	
WB	WHITEBOARD	
WR	WASHROOM	



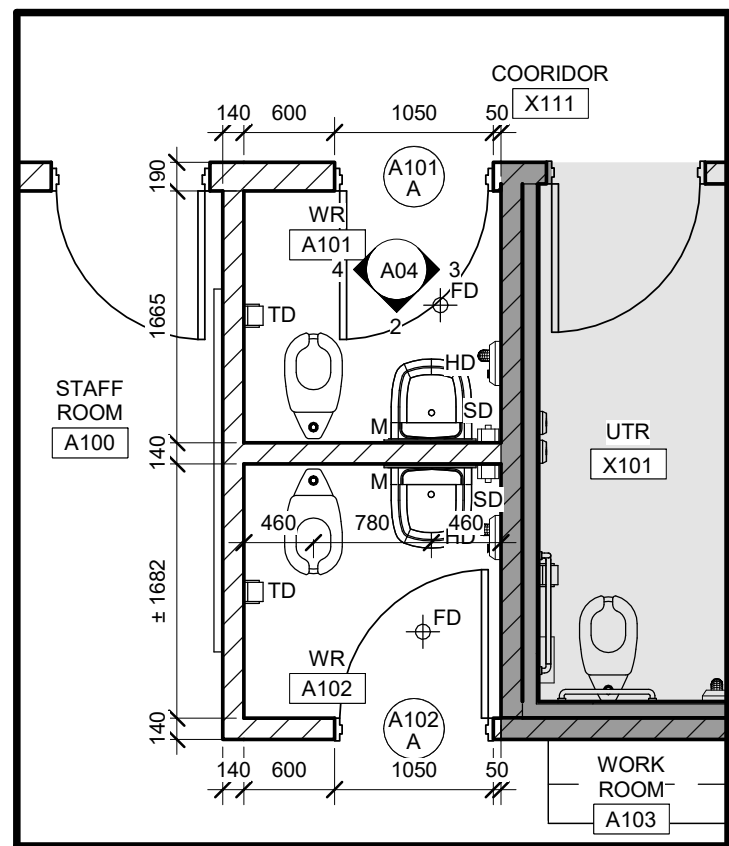
20 CLASSROOM FLOOR FINISHES PLAN  
A04 SCALE: 1:100



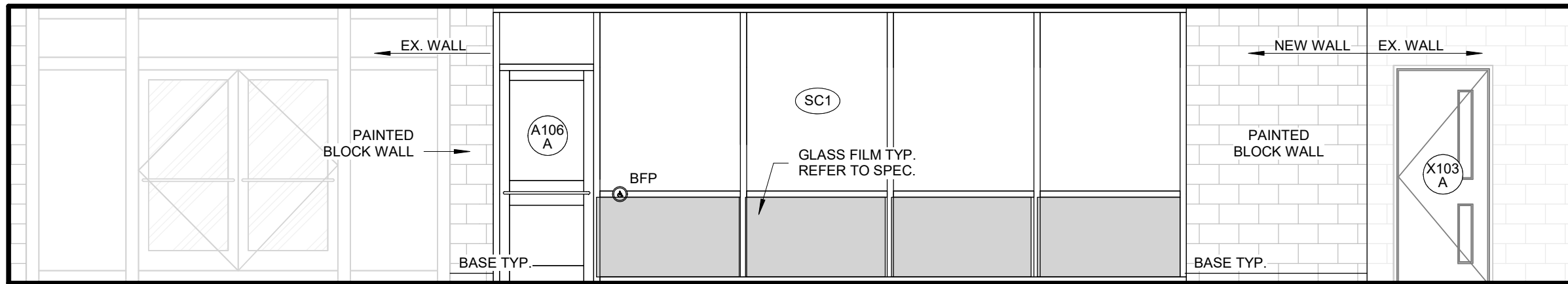
21 OFFICE FLOOR FINISHES PLAN  
A04 SCALE: 1:100

**FLOOR FINISHES LEGEND**

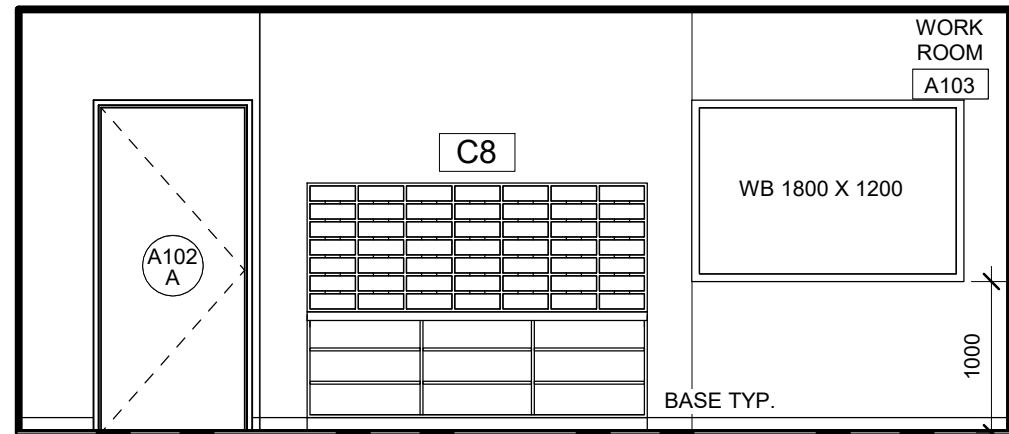
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[Pattern]	TERRAZZO FLOORING
[Pattern]	POR FLOORING



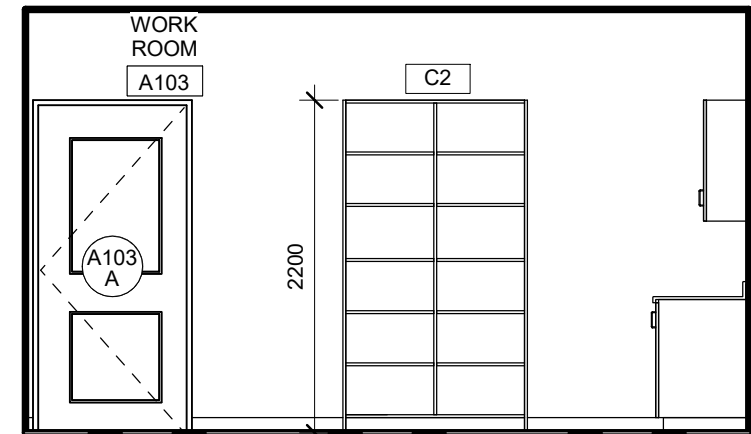
1 WR A101 & 102 - ENLARGED  
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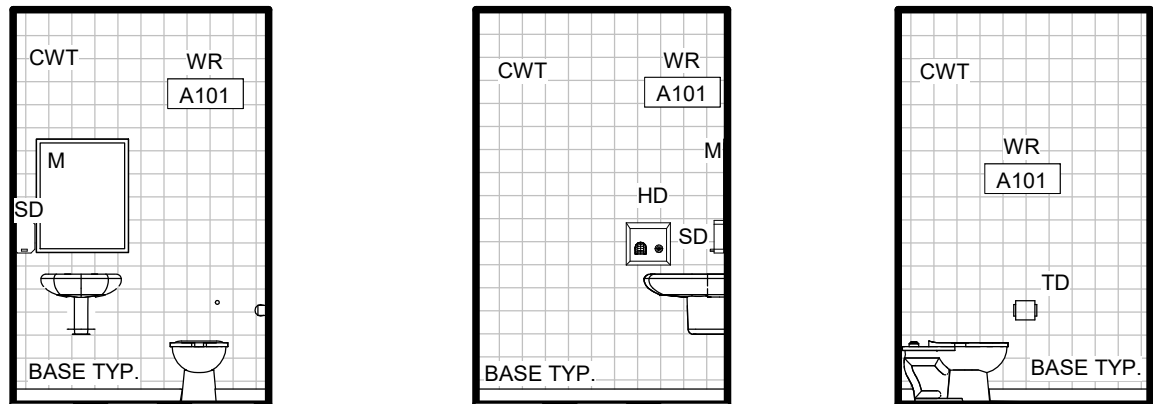
5 GENERAL OFFICE A106 - ELEV.  
A04 SCALE: 1:50



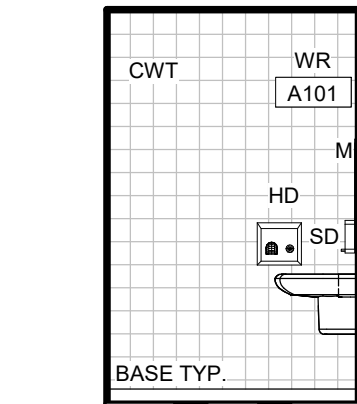
6 WORKROOM A103 - ELEV. A  
A04 SCALE: 1:50



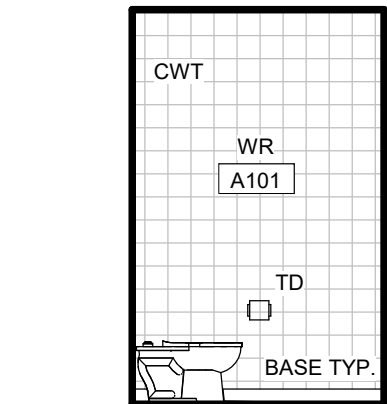
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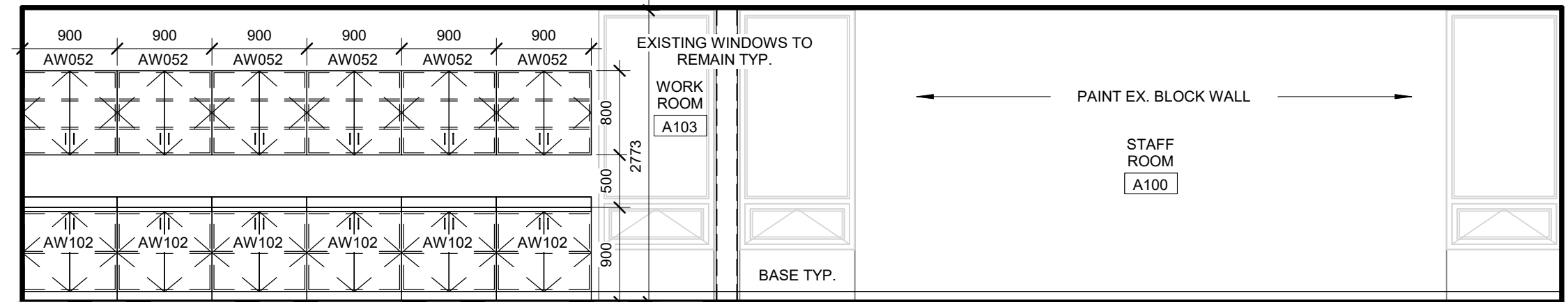
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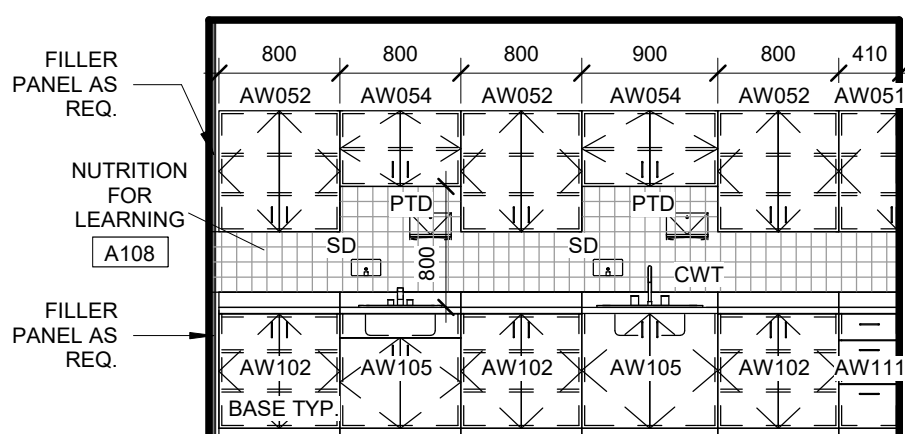
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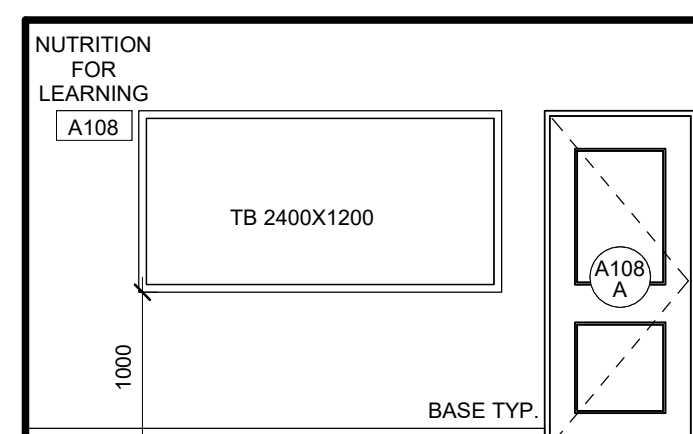
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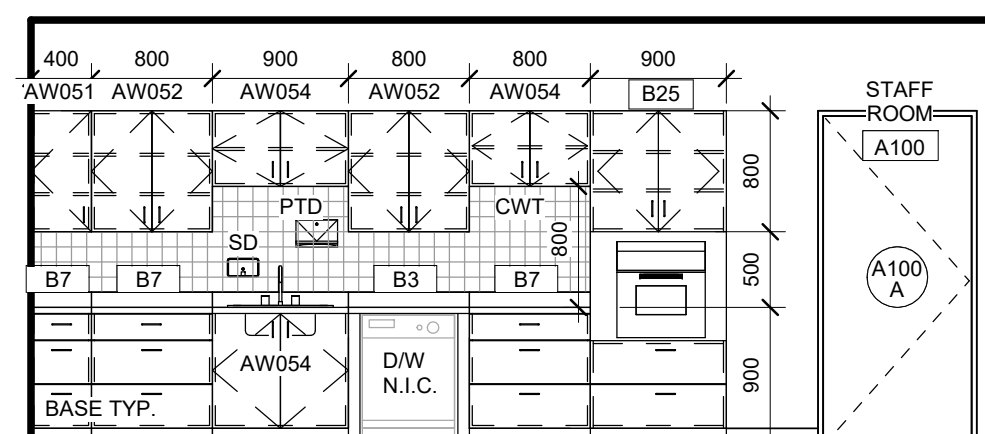
8 WORKROOM A103 - ELEV. C  
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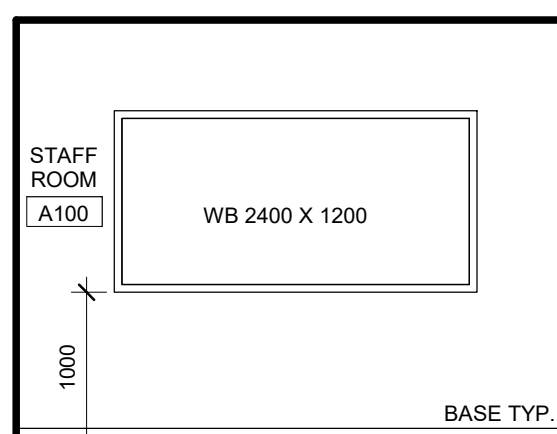
9 NUTRITION FOR LEARNING A108 - ELEV. A  
A04 SCALE: 1:50



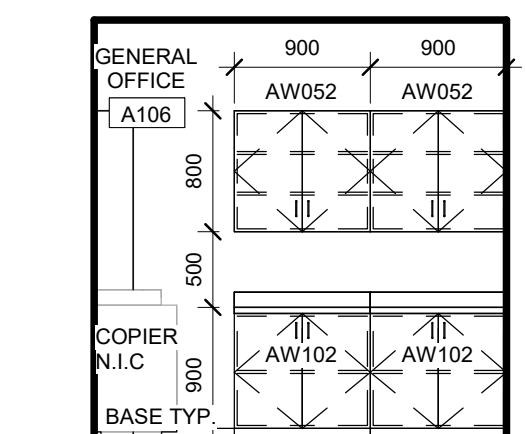
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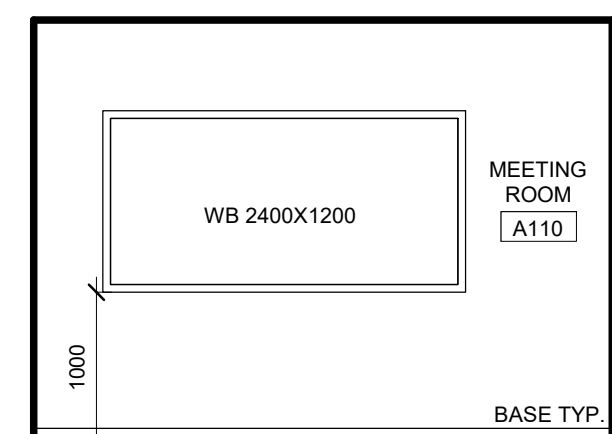
11 STAFF ROOM A100 - ELEV. A  
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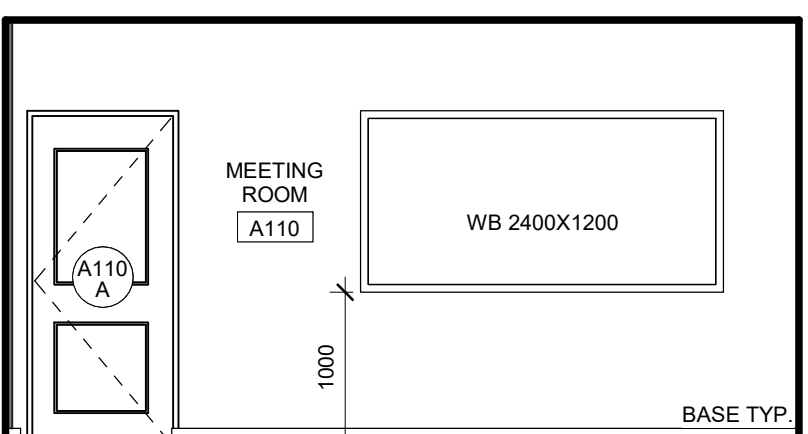
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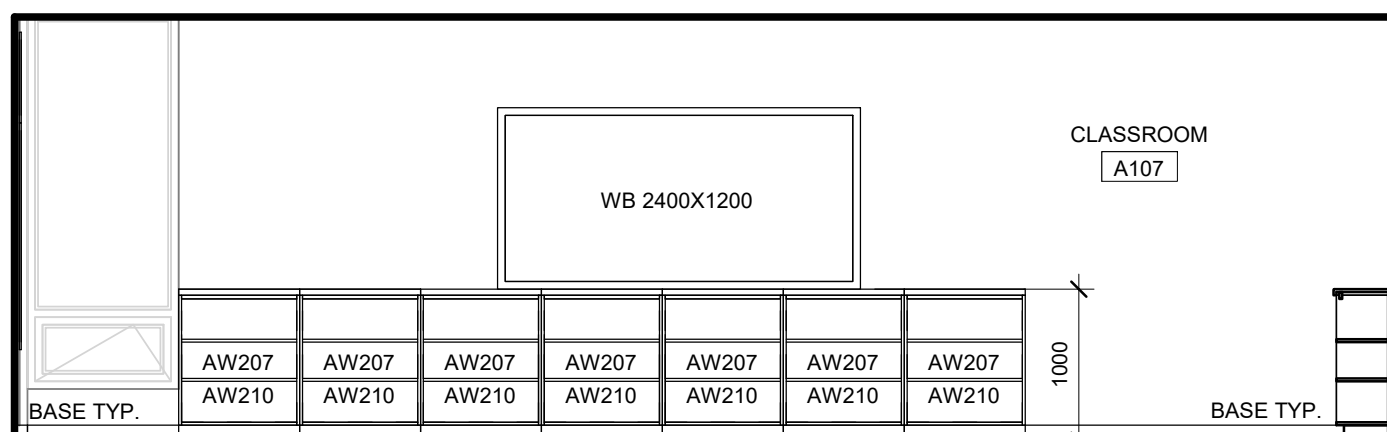
13 GENERAL OFFICE A106 - ELEV. A  
A04 SCALE: 1:50



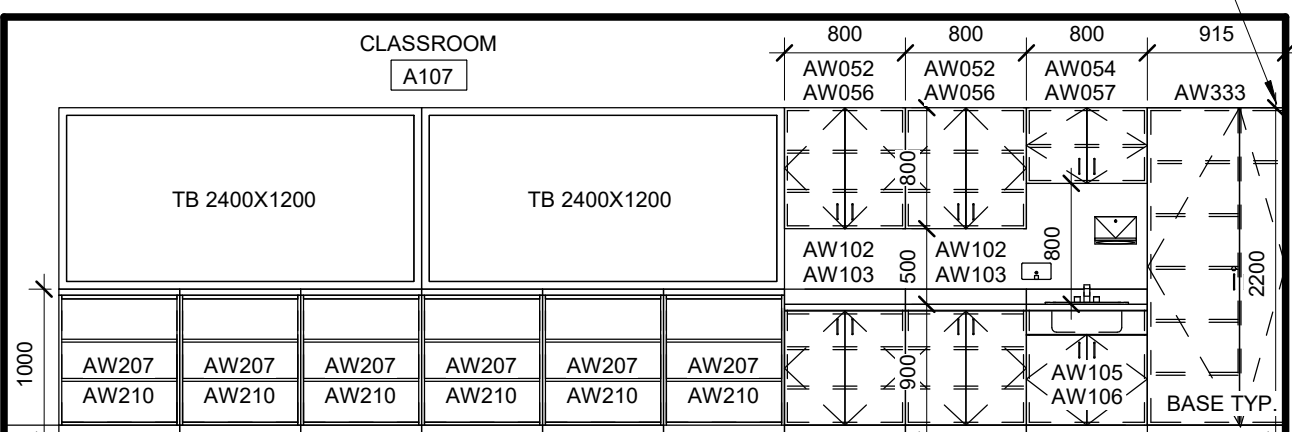
14 MEETING ROOM A110 - ELEV. A  
A04 SCALE: 1:50



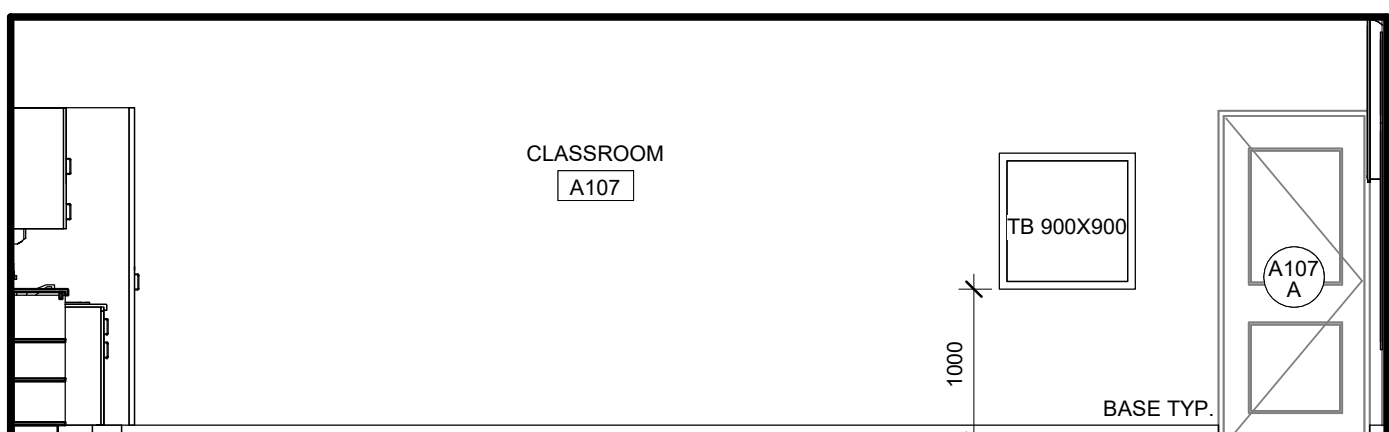
15 MEETING ROOM A110 - ELEV. B  
A04 SCALE: 1:50



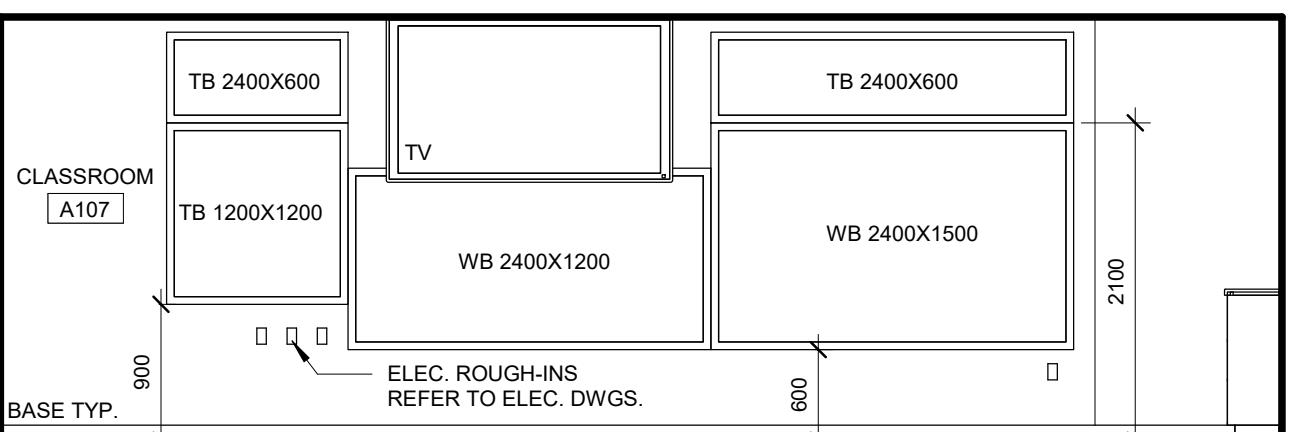
16 CLASSROOM A107 - ELEV. A  
A04 SCALE: 1:50



17 CLASSROOM A107 - ELEV. B  
A04 SCALE: 1:50



18 CLASSROOM A107 - ELEV. C  
A04 SCALE: 1:50



19 CLASSROOM A107 - ELEV. D  
A04 SCALE: 1:50

NO.	ISSUED FOR TENDER & BP	250327
NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER & BP	250327

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.



HILLSIDE PUBLIC  
SCHOOL MAIN OFFICE &  
CLASSROOM  
RENOVATION

11 CHOPIN DRIVE,  
KITCHENER, ON



Waterloo Region  
District School Board

INTERIOR  
ELEVATIONS,  
ENLARGED  
WASHROOM PLANS  
& FLOOR PATTERN

HOSSACK  
ARCHITECTURE

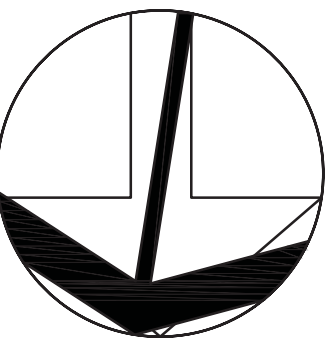
125 - 1938 IRONDALE WAY  
SUITE 101 - KITCHENER, ON  
(519) 875-8888  
www.hossackarchitect.com

SCALE	PROJECT
As Indicated	24143
DATE	25 03 21
DRAWN	TCL/K
CHECKED	PL
PRINT DATE	3/27/2025 12:40:27 PM
REVIT FILE	T:\2015\1512102\Rev\1.RVT









PROJECT #24021 HAMILTON, ONTARIO  
300 YORK BOULEVARD 905-333-1119  
L2B 3M8

HILLSIDE PUBLIC  
SCHOOL MAIN OFFICE  
& CLASSROOM  
RENOVATION  
11 CHOPIN DRIVE  
KITCHENER, ON



51 ALBERT AVE  
KITCHENER, ON

FRAMING PLANS,  
DEMOLITION PLANS,  
& SECTION

HOSSACK  
& ASSOCIATES  
ARCHITECTS



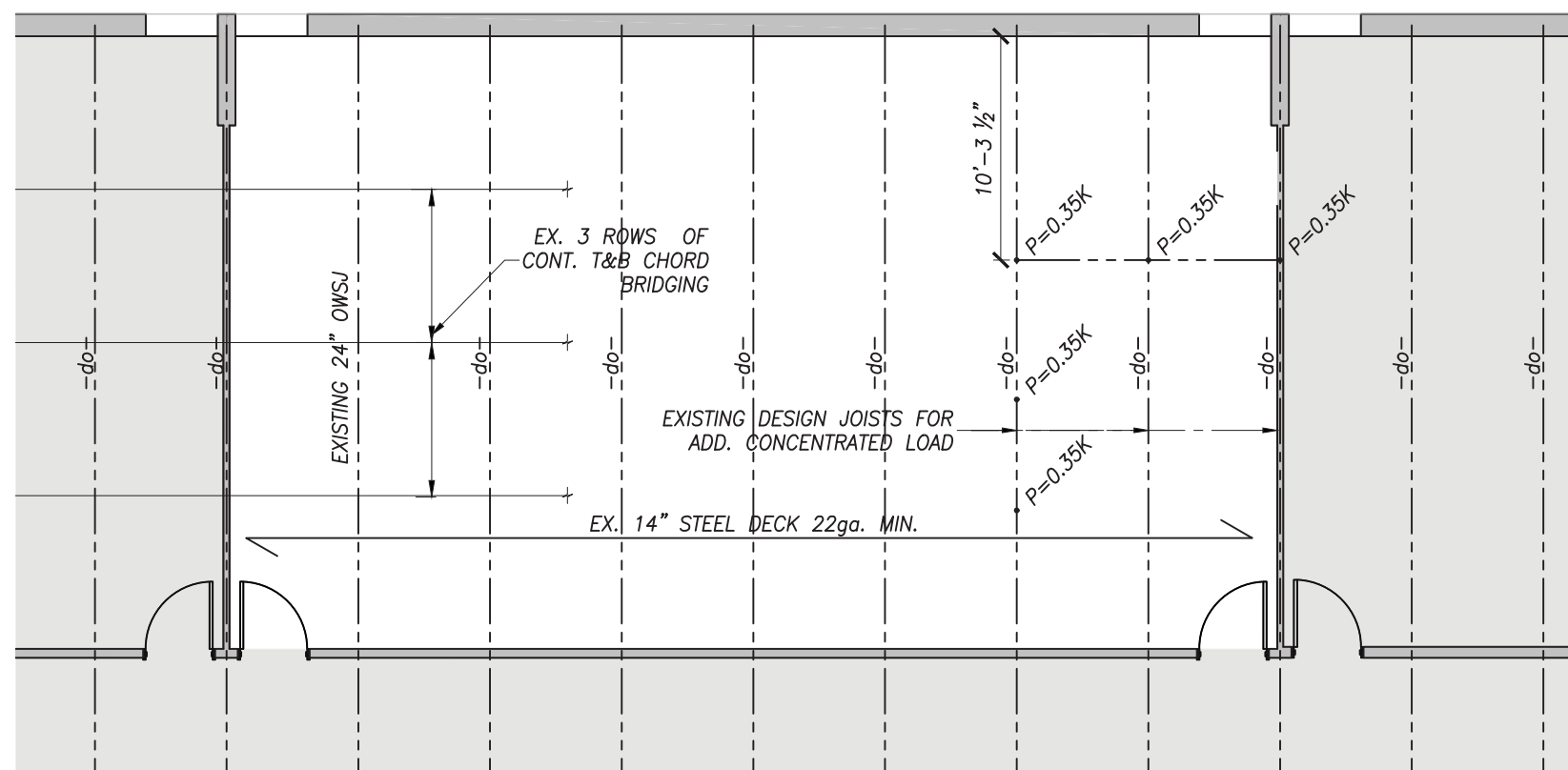
2145 DUNDAS DRIVE  
MISSISSAUGA, ONTARIO L5L 3B8  
T41 (905) 889-5544 Fax (905) 887-5545

SCALE	PROJECT
AS NOTED	24143
DATE FEB 2025	DRAWING
DRAWN FS	S02
CHECKED RH/UPC	PRINT DATE March 21, 2025
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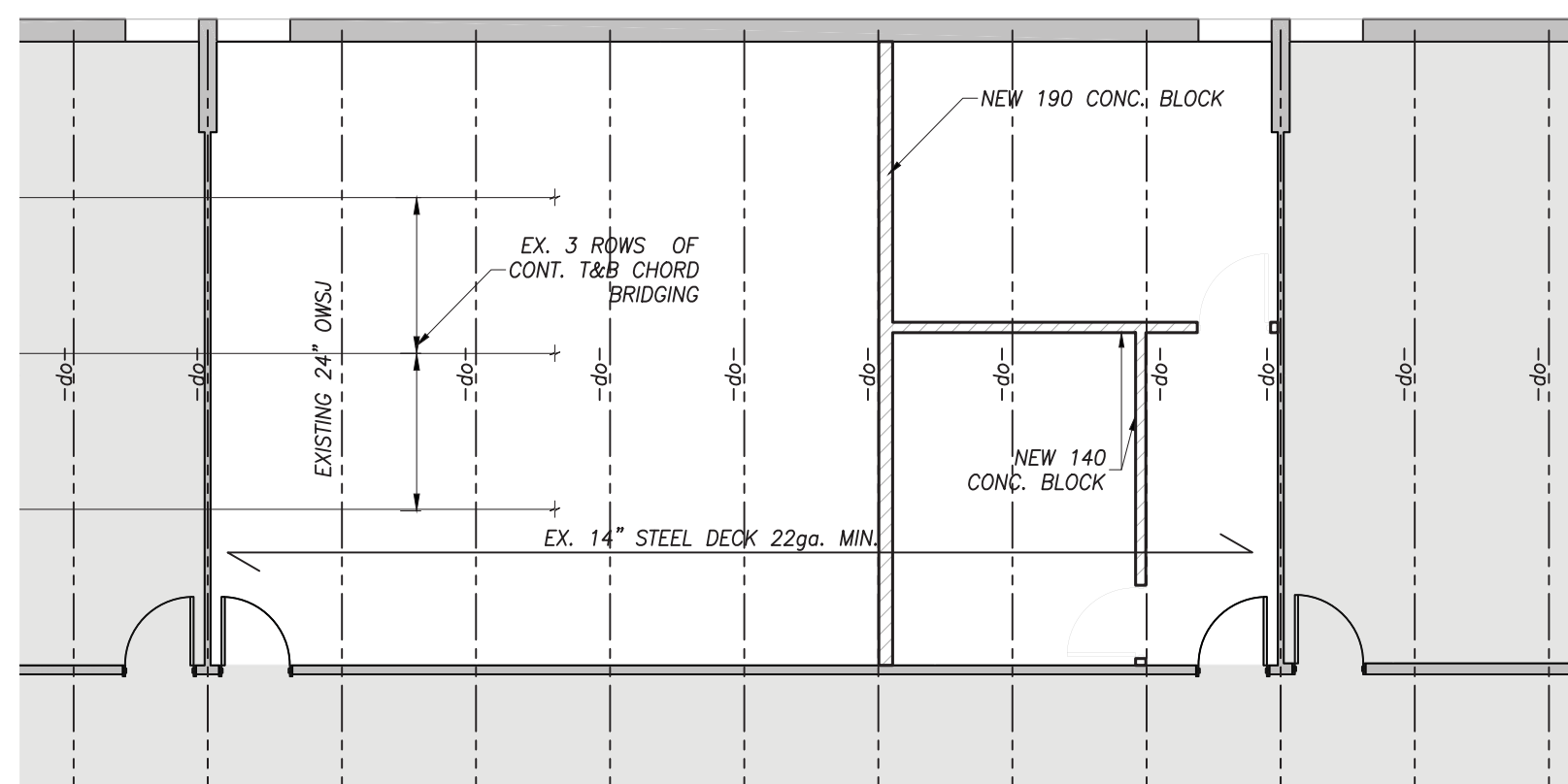
#### SHORING NOTES:

1. ALL FRAMES AND SHORING JACKS TO BE PLUMB AND LEVEL.
2. SHORING JACKS TO BE DESIGNED BY THE SUPPLIER FOR THE LOADS AND HEIGHTS SHOWN, INCLUDING BRACING.
3. MAX EXTENSION OF SCREWJACKS WILL BE 16" UNLESS NOTED.
4. SCAFFOLDING SHALL BE ERECTED IN ACCORDANCE TO C.S.A. CODE S269.1
5. SHORING TO REMAIN IN PLACE UNTIL BEAM AND ALL BRACING IS COMPLETELY INSTALLED.
6. PREPARE AND SUBMIT FULL SHORING DRAWINGS FOR APPROVAL FOR ALL TEMPORARY SUPPORTS, PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER, PRIOR TO ANY REMOVALS.

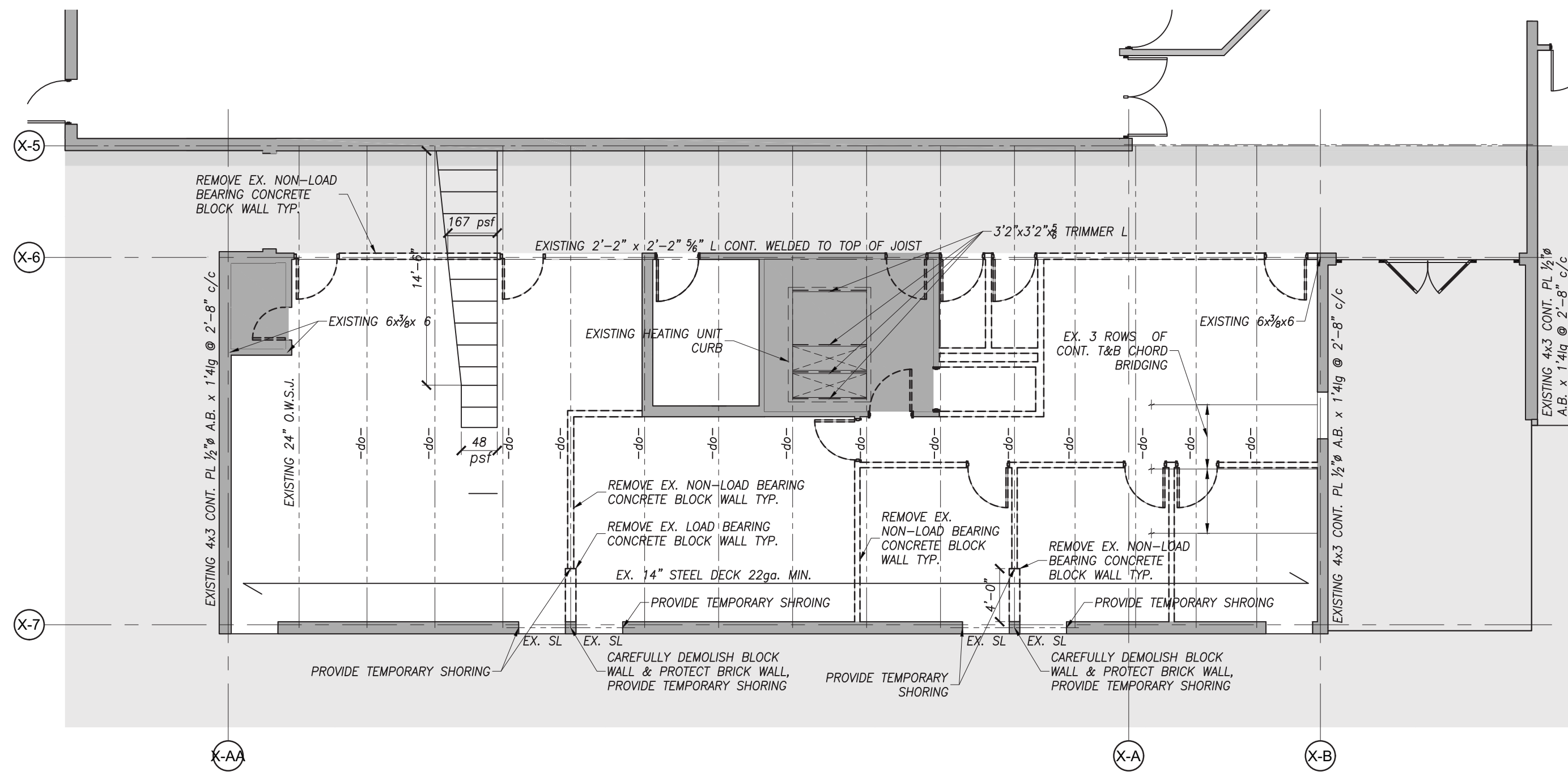
PROVIDE TEMPORARY SHORING TO STRUCTURE ABOVE PRIOR TO ANY REMOVALS



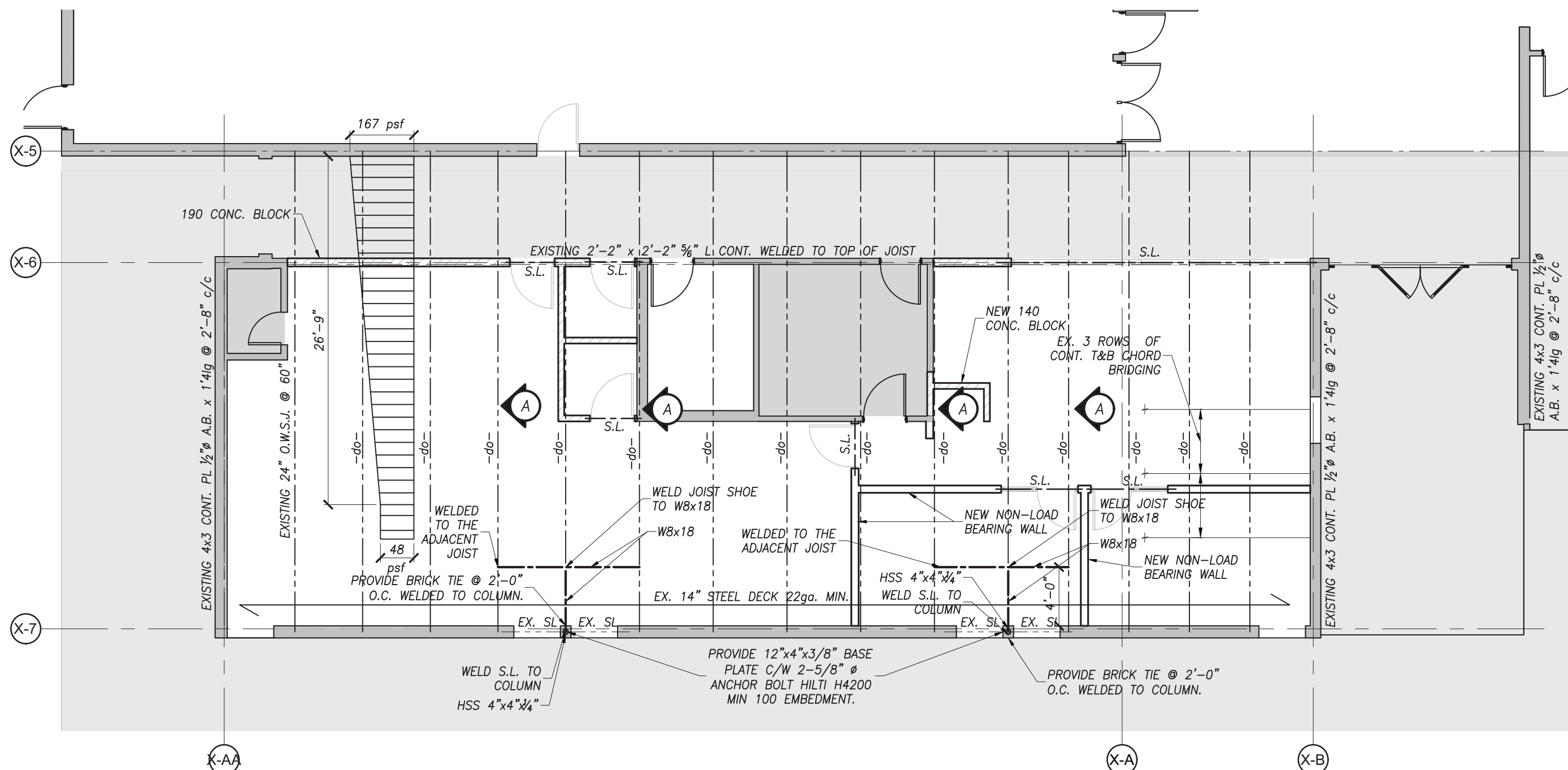
GROUND FLOOR PARTIAL PLAN A - DEMOLITION  
SCALE 1:100



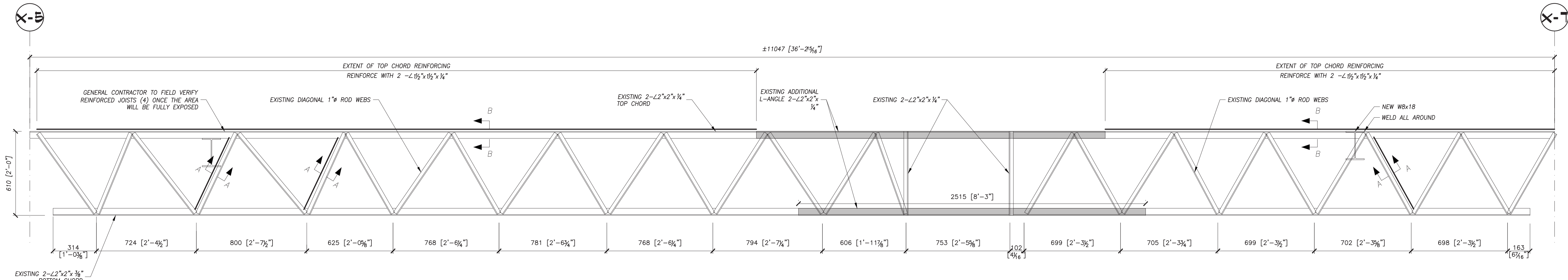
GROUND FLOOR PARTIAL PLAN A - PROPOSED  
SCALE 1:100



GROUND FLOOR PARTIAL PLAN B - DEMOLITION  
SCALE 1:100

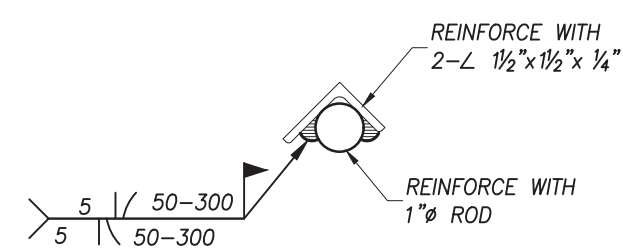


GROUND FLOOR PARTIAL PLAN B - PROPOSED  
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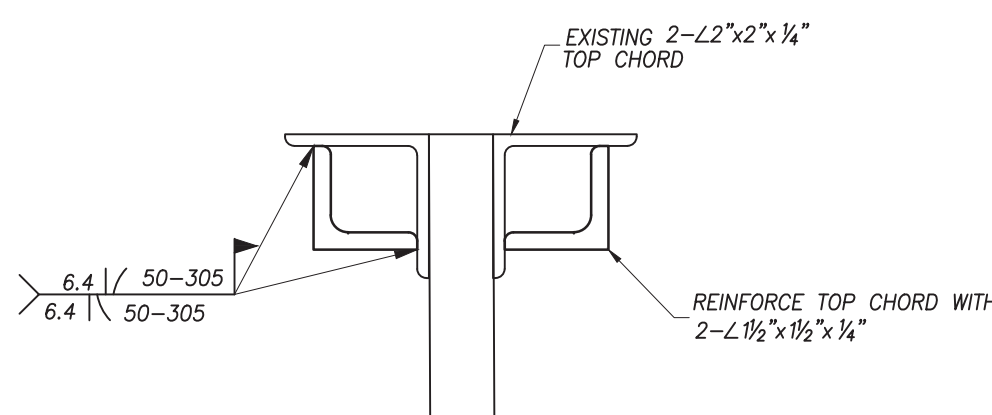


JOIST ELEVATION 'A'  
SCALE 1:20

(TYPICAL OF 4)



WEB REINFORCING A-A  
SCALE 1:3

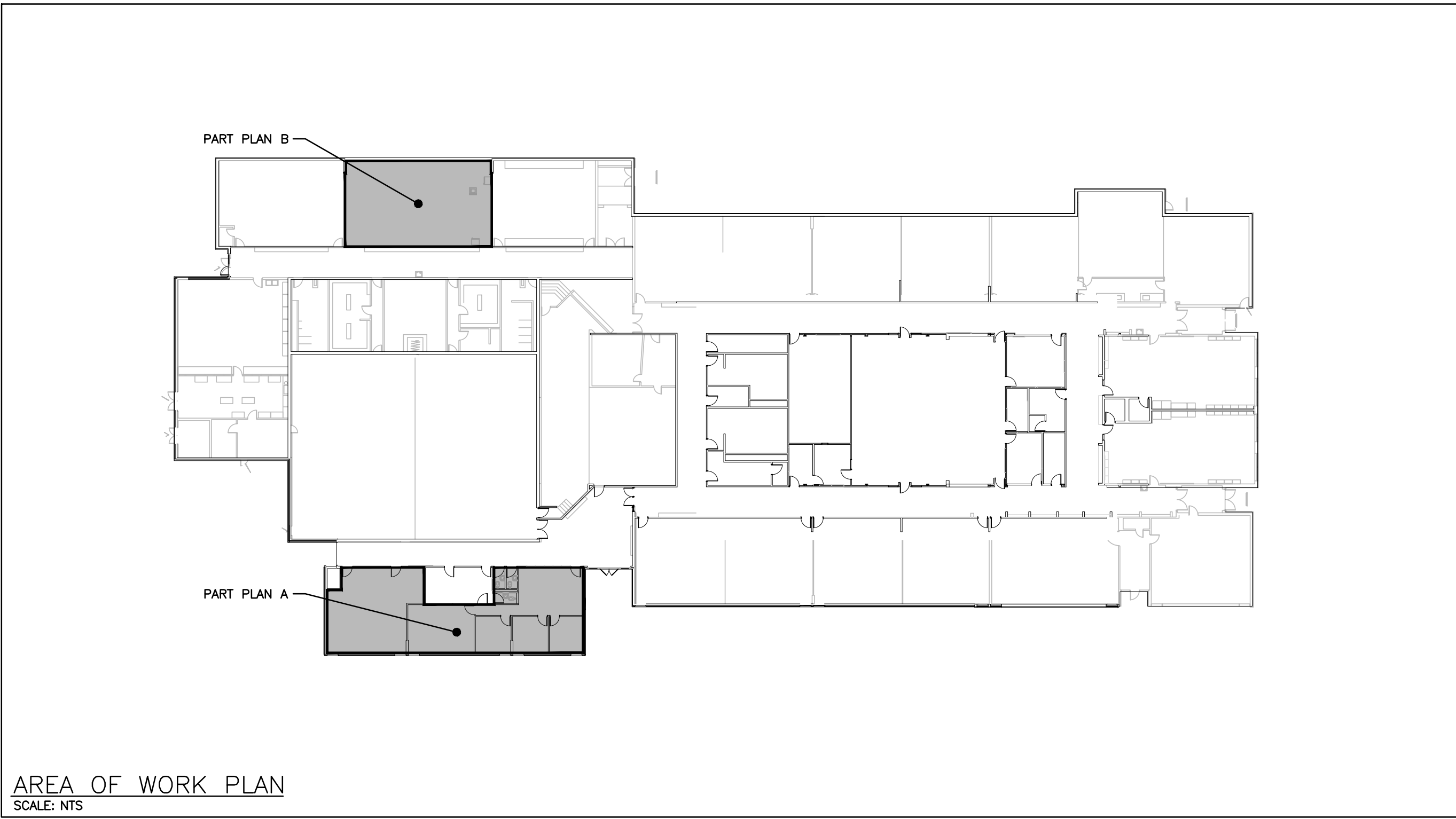


CHORD REINFORCING B-B  
SCALE 1:3

#### NOTE:

1. INFORMATION FROM EXISTING DRAWINGS PREPARED BY DRAWINGS CREATED BY MARK/MUSSELMAN/MCINTYRE STRUCTURAL DRAWINGS, PROJECT NO. 7201, DATED DECEMBER 1971  
MARK/MUSSELMAN/MCINTYRE STRUCTURAL DRAWINGS, PROJECT NO. 7214, DATED JULY 1975





GRILLE SCHEDULE						CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Type	Equilizing Grid	Volume Damper	Acceptable Manufacturer	Description	
D1	SQUARE CEILING DIFFUSER	YES	NONE	EH PRICE SCA	MULTICONE, FULLY ADJUSTABLE, 24x24, STEEL CEILING DIFFUSER W/ROUND NECK. SUITABLE FOR LAY-IN T-BAR CEILING, OR DRYWALL CEILING WHEN C/W FRAME.	
LD1	LINEAR CEILING DIFFUSER	NO	NONE	EH PRICE SDS-100, SDAI	3 SLOT (1" WIDE) LINEAR DIFFUSER, EXTRUDED ALUMINUM CONSTRUCTION, 180" AIR PATTERN ADJUSTMENT, SUITABLE FOR STANDARD LAY-IN T-BAR CEILING W/MITRED END FLANGES, & INSULATED PLENUM. LENGTH AS INDICATED.	
E1	EXHAUST GRILLE (DUCTED)	NO	NONE	EH PRICE 80-FA	1/2x1/2x1/2 ALUMINUM EGGRATE CORE, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.	
R1	CEILING RETURN GRILLE (NON-DUCTED)	NO	NONE	EH PRICE 80-CH	1/2x1/2x1/2 ALUMINUM EGGRATE CORE, C/W CHANNEL BORDER FOR LAY-IN T-BAR CEILING.	
GENERAL DIFFUSER/GRILLE NOTES: 1. ACCEPTABLE MANUFACTURERS: EH PRICE, NAILOR, TITUS, KRUEGER, CARNES, METALAIRE, TUTTLE & BAILEY 2. GRILLE COLOURS ARE SELECTED BY ARCHITECT FROM STANDARD COLOUR CHART, UNLESS OTHERWISE NOTED. 3. PAINT INTERIOR OF DUCTWORK BEHIND GRILLE MATT BLACK (WHERE VISIBLE THRU GRILLE).						

PLUMBING FIXTURE SCHEDULE											
Item	Type	Connection Sizes				Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Accessories	Accessories Description
		HW	CW	TW	Drain Vent						
FD-1	FLOOR DRAIN				NOTED 1 1/2	ZURN ZN415B MIFAB F1100-C CONTOUR C2000-R6 WATTS FD-100-C-A	GENERAL DUTY CAST IRON BODY, ADJUSTABLE HEAD, NICKEL BRONZE STRAINER, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR. USE SQUARE STRAINER IN TILED AREAS AND ROUND STRAINER ELSEWHERE. C/W TRAP PRIMER				
L-1	B.F. WALL MOUNTED LAV ELECTRONIC FAUCET	1/2	1/2	1 1/4	1 1/4	AMERICAN STANDARD MURRO 0954-004EC & 0059.020EC KOHLER BRENNHAM K-1997 ZURN Z5344	WALL-HUNG SINK, VITREOUS CHINA, WITH SPLASH LIP, SUPPLY OPENINGS ON 100mm (4") CENTRES, OVERFLOW. SIZE: 557mm X 502mm (21-15/16" x 19-3/4"). C/W SHROUD/KNEE CONTACT GUARD.	DELTA 591T1258 MOEN COMMERCIAL 8301 ZURN Z6915-HW6-XL	HARDWIRED ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRAL WATER PROOF INFRA-RED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE 76MM TO 381MM (3" TO 15") AND TIME OUT 15 TO 75 SECONDS CHROME FINISH. VANDAL RESISTANT NON-ERATING SPRAY OUTLET HAVING INTEGRAL FLOW CONTROL FOR 0.5GPM (1.9 L/MIN) @ 41.3 kPa (60 PSI) MAX. UNDER COUNTER PLASTIC SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. HARDWIRED OPERATED POWER CONVERTER.	INSULATION: MCQUIRE PROWRAP PW8902 TRUEBRO LAV GUARD	INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSULATION SYSTEM COMPLETE WITH SEAMLESS JACKET. WASTE FITTING: NPS 32 MM (1 1/4") OFFSET WASTE WITH OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER THERMOSTATIC MIXING VALVE MOUNTED UNDER LAV IN STAINLESS STEEL. RECESSED HOUSING. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
WC-1	BARRIER FREE WATER CLOSET FLUSH VALVE, 16" HIGH, HANDS FREE (HARDWIRED)		1	3	1 1/2	AMERICAN STANDARD MIFAB 3461.001 KOHLER MANSFIELD ZURN	BARRIER FREE, 16" TALL TO RIM, VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH.	DELTA 81T201-48-HW6-HWA ZURN SLOAN	EXPOSED, POLISHED CHROME PLATED, DIAPHRAGM TYPE FLUSH VALVE WITH 25mm (1") SCREWDRIVER ANGLE STOP, MOTORIZED ACTUATOR, AUTOMATIC SENSOR WITH MANUAL PUSH BUTTON OVERRIDE, VACUUM BREAKER ADJUSTABLE TAIL PIECE, AUTOMATIC 24 HR COURTESY FLUSH FACTORY SET TO ON (WEEKEND / HOLIDAY OPERATION), RECESSED WALL MOUNTED SENSOR BOX, FLUSH CONNECTION & COUPLING FOR 40mm (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEONS. HARDWIRED OPERATED POWER CONVERTER, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 4.8 LITRES (1.27 GAL) PER FLUSH.	SEAT: BEMIS 1950 CENTOCO	SEAT: BLACK, ELONGATED, OPEN FRONT WITH COVER, MOLDED SOLID PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
DS-1	STAINLESS STEEL DOUBLE SINK	1/2	1/2	1 1/2	1 1/4	KINDRED LB06408-1/3 NOVANNI 20071	SINK: DOUBLE COMPARTMENT, LEDGE-BACK, FROM 1.0 mm (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF-RRIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 790 mm X 520 mm X 200 mm (31 1/4" X 20 3/4" X 8").	DELTA 100 ZURN Z82300-CPB MOEN COMMERCIAL 8701	FAUCET: CHROME PLATED BRASS, WITH SWING SPOUT, AERATOR, SINGLE LEVER HANDLE, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 41.3 kPa (60 psi).	WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.	
NFHB-1	NON-FREEZE WALL HYDRANT		3/4			ZURN Z-1300 MIFAB MHY-20 ANCON HY-725	RECESSED, ENCASED, ALL BRONZE CONSTRUCTION, ANTI-SYPHON, NON FREEZE WALL HYDRANT WITH NON-TURNING OPERATING ROD, FREE FLOATING COMPRESSION VALVE, INTEGRAL VACUUM BREAKER, SELF DRAINING, REPLACEABLE SEAT AND SEAT WASHER, NICKEL BRONZE BOX AND HINGED COVER WITH OPERATING KEY LOCK. NPS 20 MM (3/4") HOSE OUTLET.				

VVT CONTROL DAMPER SCHEDULE							CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
Item	Type	Design	Capacity (cfm)				Size	Remarks	
			Heating		Cooling				
			Min.	Max.	Min.	Max.			
WT-1.1	DAMPER	1300	780	780	1040	390	1690	600x250	
WT-1.2	DAMPER	70	40	40	55	20	90	150ø	
WT-1.3	DAMPER	220	130	130	175	65	285	250x200	
WT-1.4	DAMPER	250	150	150	200	75	325	250x200	
WT-1.5	DAMPER	360	215	215	290	110	470	250x200	
WT-1.6		1600	-	-	-	-	-	700x300	BYPASS DAMPER
WT-2.1	DAMPER	200	120	120	160	60	260	250ø	
WT-2.2	DAMPER	200	120	120	160	60	260	250ø	

MECHANICAL LEGEND					
Item	Description	Item	Description	Item	Description
-----	ITEM TO BE REMOVED	┴	TEE CONNECTION	G	THERMOSTAT (WITH GUARD WHERE INDICATED)
└─┐	CUT EXISTING & CONNECT NEW PIPING	└─┐	PIPE DOWN	G	TEMPERATURE SENSOR (WITH GUARD WHERE INDICATED)
→	FLOW DIRECTION	└─┐	PIPE UP	G	CO2 SENSOR (WITH GUARD WHERE INDICATED)
└─┐	POTABLE COLD WATER	└─┐	REDUCER/INCREASER	▢	SUPPLY AIR DUCT
└─┐	POTABLE HOT WATER	└─┐	CHECK VALVE	▢	RETURN/EXHAUST AIR DUCT
└─┐	POTABLE HOT WATER RECIRC.	└─┐	UNION	▢	ACOUSTIC DUCT LINING
└─┐	EXISTING SAN ABOVE FLOOR	└─┐	STRAINER	▢	THERMAL INSULATION
└─┐	EXISTING SAN BELOW FLOOR	└─┐	SCREWED OR WELDED PIPE CAP	└─┐	BRANCH LINE SPIN-IN COLLAR C/W BALANCING DAMPER
└─┐	SANITARY ABOVE FLOOR	NO	NORMALLY OPEN	└─┐	TRUNK MAIN BRANCH COLLAR C/W BALANCING DAMPER
└─┐	SANITARY BELOW FLOOR	NC	NORMALLY CLOSED	└─┐	BALANCING DAMPER
└─┐	EXISTING STM ABOVE FLOOR	└─┐	PLUG VALVE	└─┐	MOTORIZED DAMPER
└─┐	EXISTING STM BELOW FLOOR	└─┐	BALL VALVE	└─┐	FIRE DAMPER
└─┐	STORM ABOVE FLOOR	└─┐	VALVE ON RISER	└─┐	RECTANGULAR DUCTWORK
└─┐	STORM BELOW FLOOR	└─┐	FEC	└─┐	RIGID ROUND DUCT
└─┐	NATURAL GAS	└─┐	FE	└─┐	FLEXIBLE ROUND DUCT
└─┐	HIGH PRESSURE NATURAL GAS	└─┐	CO	└─┐	DIFFUSER/GRILLE SIZE (mp), TYPE & CAPACITY (cfm)
└─┐	FLOOR DRAIN	└─┐	CO	└─┐	TYPE & SIZE
└─┐	TRAP PRIMER	└─┐	PRV	└─┐	EXISTING DUCT (SIZE AS INDICATED)
				└─┐	TRANSFER DUCT (SIZE AS INDICATED)

GENERAL NOTES	
A.	ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
B.	THIS CONTRACTOR SHALL TRACK REVISIONS ON SITE AND SUBMIT AS-BUILTS TO CONSULTANT TO DIGITIZE.
C.	SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MIN 14"-0" FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
D.	WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCT(S) BETWEEN OWSJ.
E.	CO-ORDINATE WITH THE GENERAL CONTRACTOR ANY OWSJ BRIDGING/CROSS BRACING RELOCATION OR REMOVAL/REPLACEMENT REQUIRED FOR INSTALLATION OF DUCTWORK.
F.	CONTRACTOR TO LOCATE ISOLATION VALVES / FREEZE PIPING / OR OTHERWISE DRAIN SYSTEMS TO ALLOW PROPOSED WORK TO PROCEED. REFILL SYSTEMS AS INDICATED.
G.	UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE CONFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT: - POTABLE WATER (TSI) - WRDSB PROJECT ASSET AND WARRANTY CARD FOR ALL ASSETS REPLACED, NEWLY INSTALLED AND REMOVED. ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

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Website: [www.deiconsulting.ca](http://www.deiconsulting.ca)  
Project Number: 25026

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1	ISSUED FOR PERMIT & TENDER	2/1/2025
2	ISSUED FOR 100% REVIEW	2/1/2025
3	ISSUED FOR 90% REVIEW	2/1/2025
NO	DESCRIPTION	DATE

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HILLSIDE PUBLIC  
SCHOOL MAIN OFFICE  
& CLASSROOM  
RENOVATION

11 CHOPIN DRIVE,  
KITCHENER, ON

NOTES, LEGEND,  
SCHEDULES &  
AREA OF WORK  
PLAN

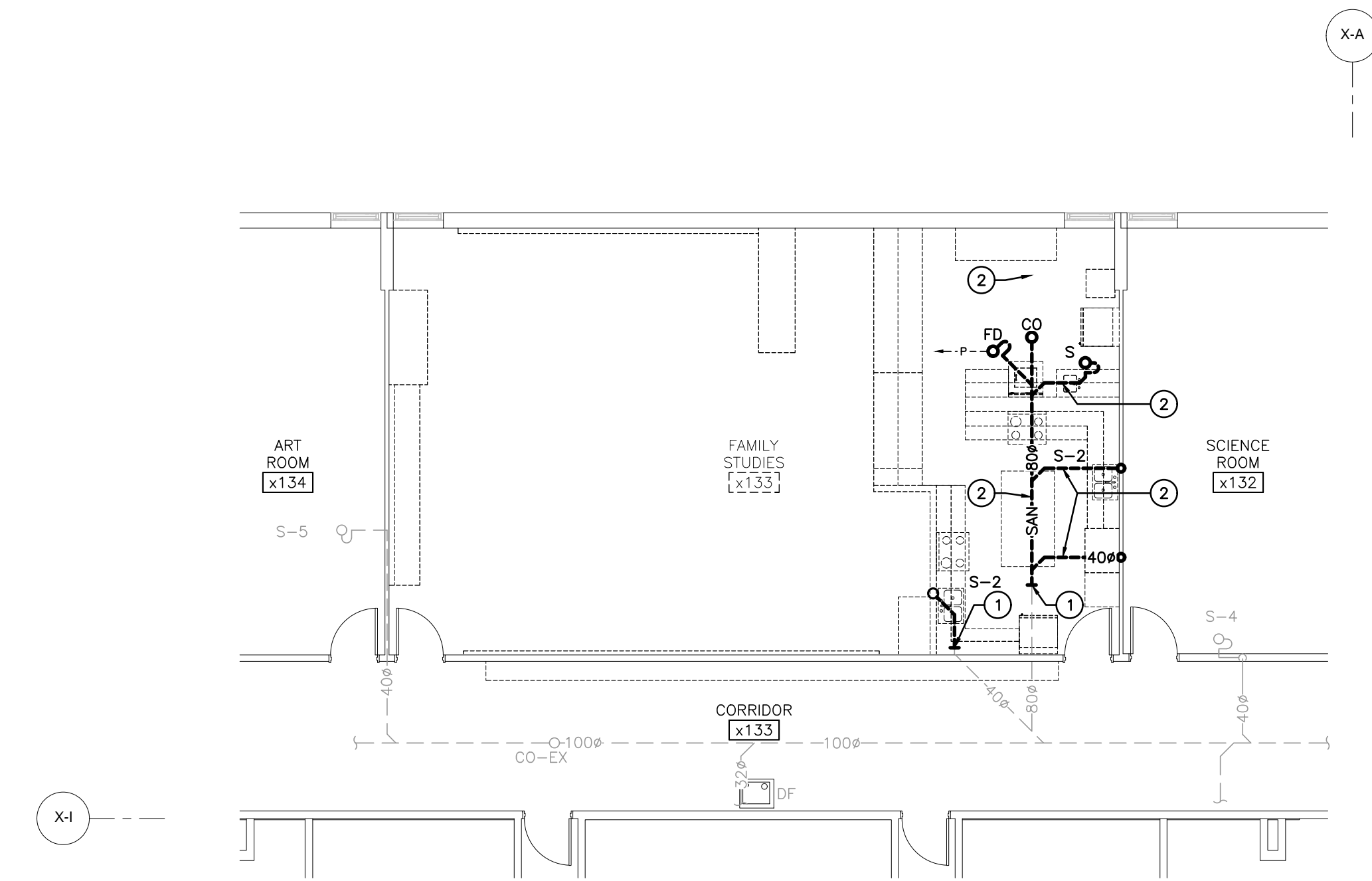
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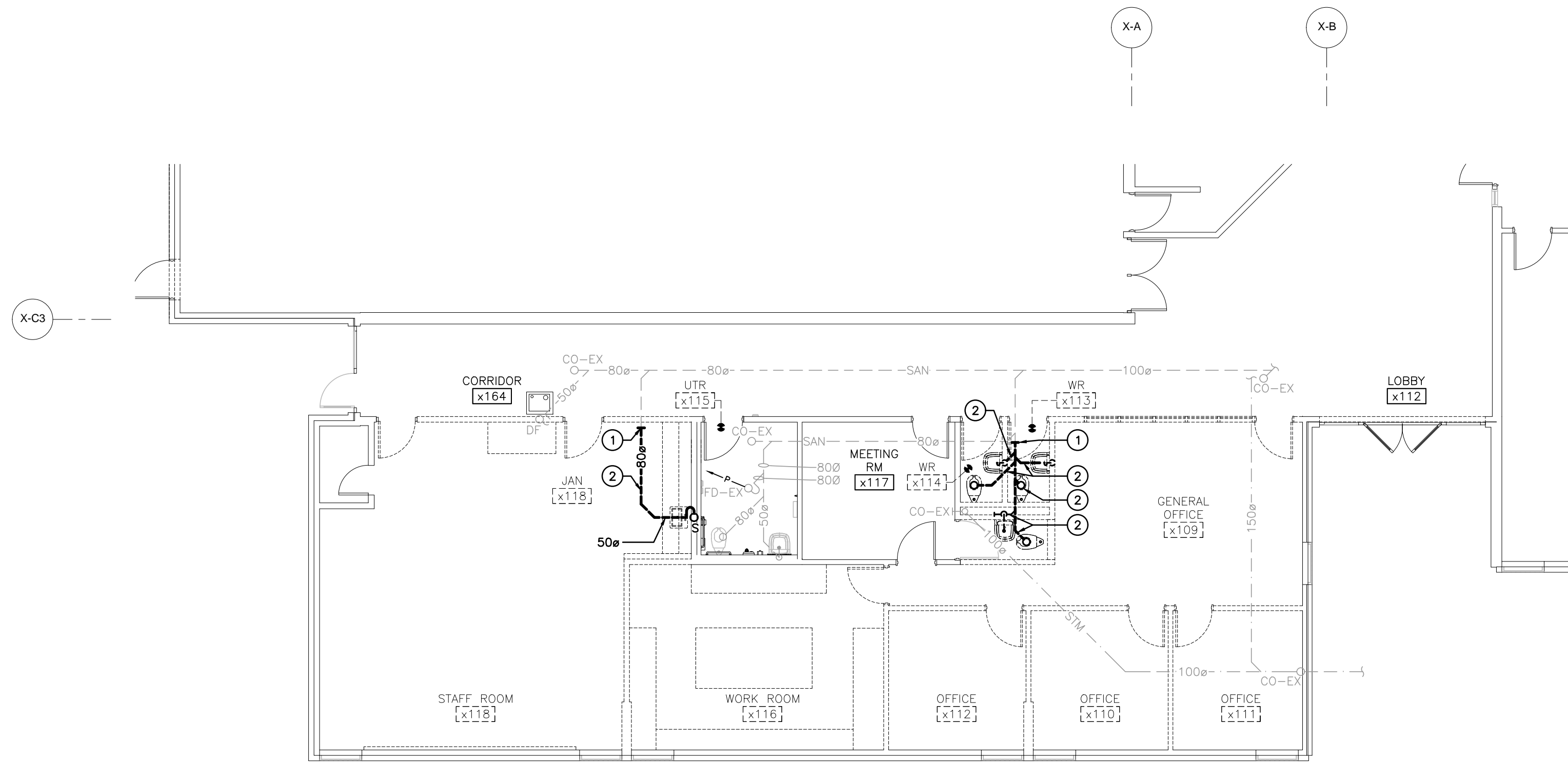
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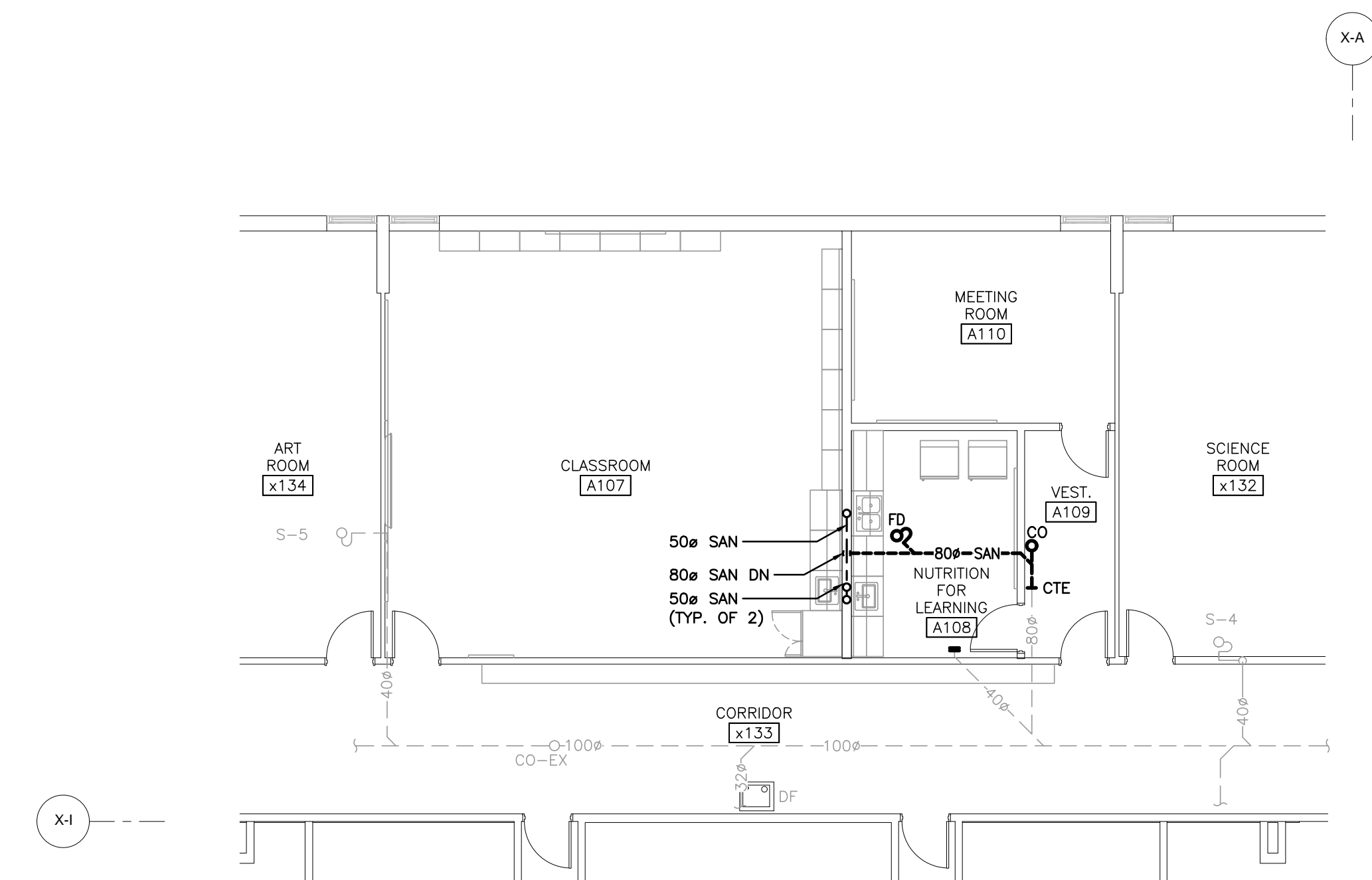




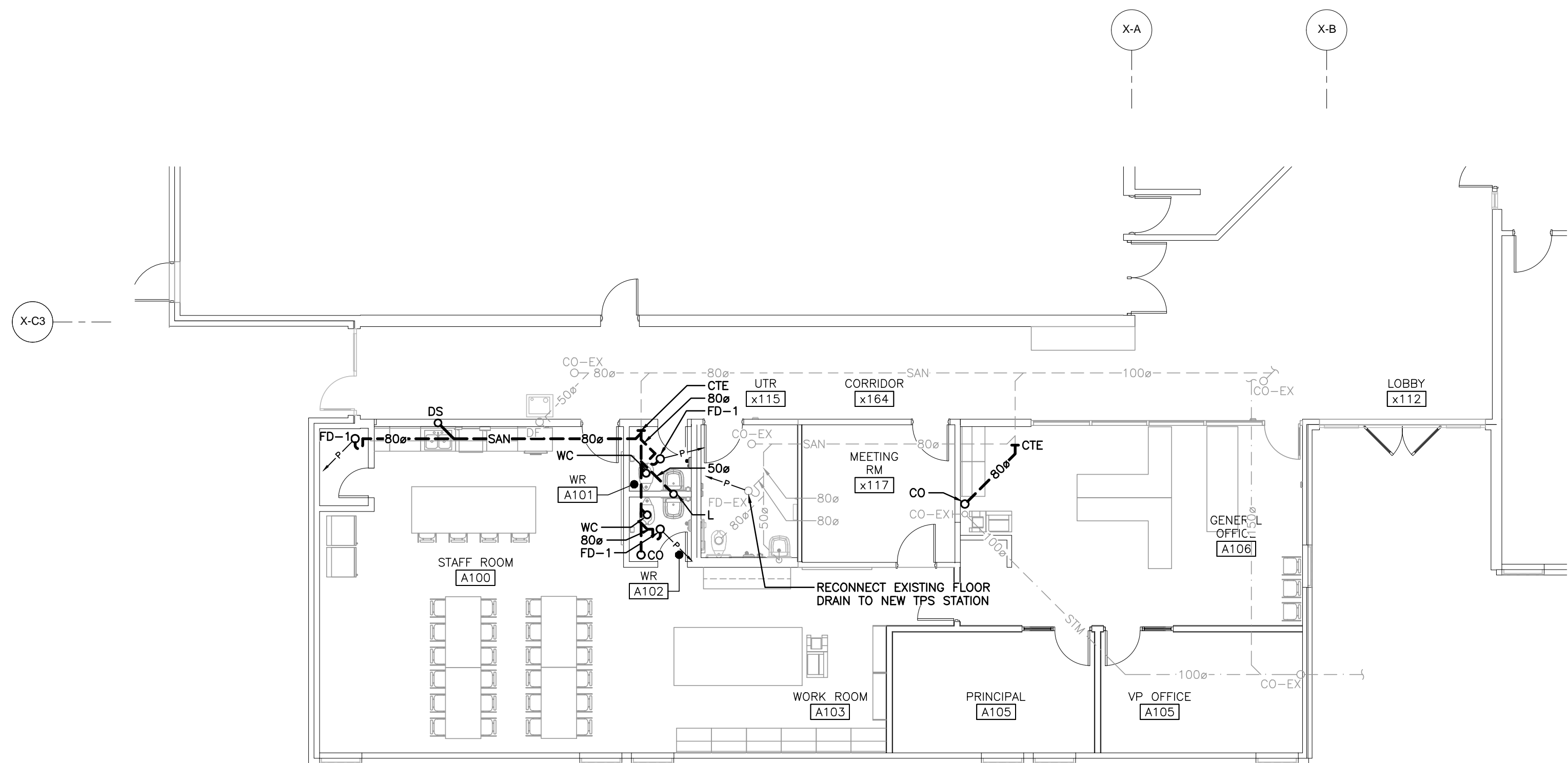
GROUND FLOOR PART PLAN B — DEMOLITION  
SCALE: 1:100



GROUND FLOOR PART PLAN A — DEMOLITION  
SCALE: 1:100



GROUND FLOOR PART PLAN B — RENOVATION  
SCALE: 1:100



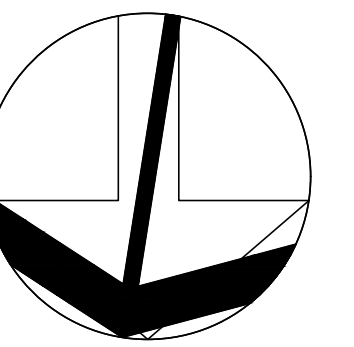
GROUND FLOOR PART PLAN A — RENOVATION  
SCALE: 1:100

#### GENERAL DEMOLITION NOTES

- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

#### SPECIFIC DEMOLITION NOTES

- CUT EXISTING SANITARY PIPING AND REMOVE BEYOND COMPLETE. PREPARE FOR NEW CONNECTION.
- CUT EXISTING SANITARY AND REMOVE BEYOND COMPLETE.



**DEI**  
Consulting Engineers

MECHANICAL | ELECTRICAL | AQUATIC  
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Project Number: 24143

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NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT & REVIEW	07/03/2025
2	ISSUED FOR 100% REVIEW	11/03/2025
3	ISSUED FOR 50% REVIEW	06/02/24

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**HILLSIDE PUBLIC SCHOOL MAIN OFFICE & CLASSROOM RENOVATION**

11 CHOPIN DRIVE, KITCHENER, ON



Waterloo Region District School Board

**GROUND FLOOR PART PLANS - BELOW GRADE DRAINAGE**

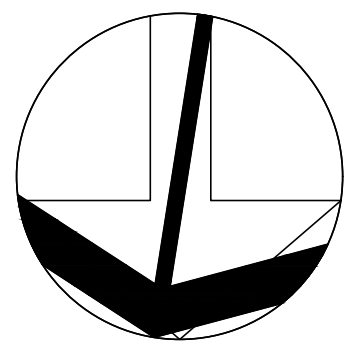
**HOSSACK & ASSOCIATES ARCHITECTS**



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## HILLSIDE PUBLIC SCHOOL MAIN OFFICE & CLASSROOM RENOVATION

11 CHOPIN DRIVE, KITCHENER, ON



## GROUND FLOOR PART PLANS - ABOVE GRADE PLUMBING & DRAINAGE



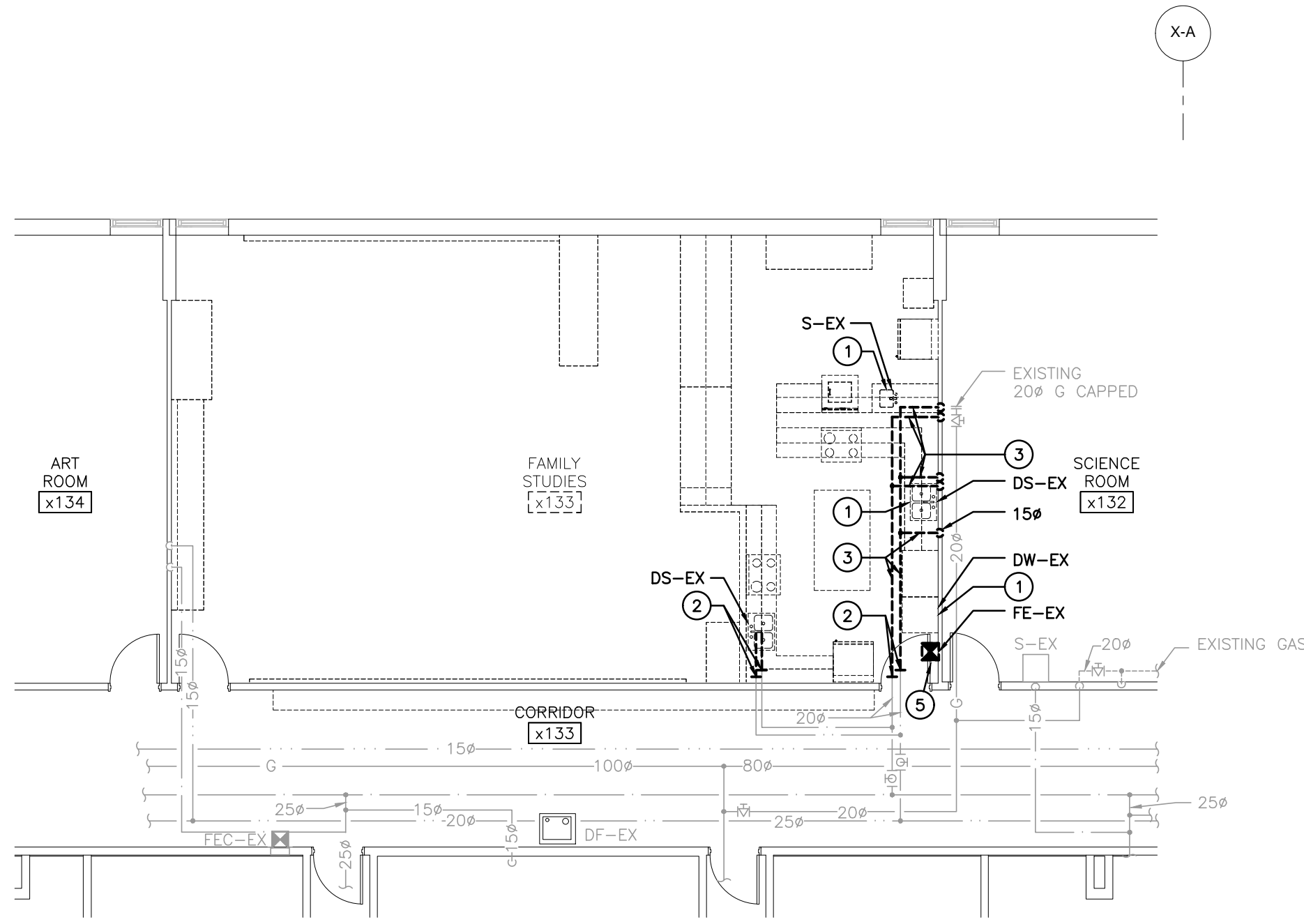
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### GENERAL DEMOLITION NOTES

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- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

### SPECIFIC DEMOLITION NOTES

- EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. CAP SERVICES CONCEALED IN WALL/FLOOR/CEILING AND REMOVE BEYOND COMPLETE. PATCH AND MAKE GOOD ALL SURFACES.
- CUT EXISTING WATER PIPING AND REMOVE BEYOND COMPLETE. PREPARE FOR NEW CONNECTION.
- CUT EXISTING WATER PIPING AND REMOVE BEYOND COMPLETE.
- CUT & CAP EXISTING WATER PIPING AND REMOVE BEYOND COMPLETE.
- EXISTING FIRE EXTINGUISHER TO BE REMOVED COMPLETE AND TURNED OVER TO OWNER.









POSITION. THE OPTIMIZED START PROGRAM IS TO BEGIN UP TO 105 MINUTES (ADJUSTABLE) BEFORE THE OCCUPANCY SCHEDULE TO ALLOW FOR MORNING WARM UP TO BRING THE LOWEST ZONE TEMPERATURE UP TO OCCUPANCY SETPOINT. FREE COOLING: DISABLED. MECHANICAL COOLING: DISABLED. GLOBAL VENTILATION SCHEDULE: DISABLED. THE SYSTEM EXITS MORNING WARMUP MODE AND CONTINUES INTO OCCUPIED MODE WHEN THE LOWEST INDOOR ZONE TEMPERATURE IS WARMED UP TO DEFAULT ROOM TEMPERATURE SETPOINT.

1. PROVIDE LABOUR, MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION WITH QUALITY WORKMANSHIP ACCEPTABLE TO OWNER AND CONSULTANT.
2. OBTAIN ALL PERMITS AND PAY ALL TAXES, FEES, AND OTHER COSTS INCURRED WITH THIS WORK. FILE ALL PLANS, PERMITS, AND RECEIPTS WITH THE CONSULTANT. OBTAIN ALL FINAL CERTIFICATES TO THE CONSULTANT, COME WITH RULES AND RECOMMENDATIONS OF THE BOARD OF FIRE INSURERS, THE CANADIAN GAS ASSOCIATION, THE CANADIAN COUNCIL OF BUILDING OFFICIALS, THE CANADIAN ELECTRICAL ASSOCIATION, THE CANADIAN UTILITY COMPANY AND BY-LAWS. POST BUILDING PERMIT AT SITE IN ACCORDANCE WITH O.B.C.'S REQUIREMENTS.
3. VISIT THE SITE BEFORE SUBMITTING TENDERS TO EVALUATE ANY SITE CONDITIONS THAT MIGHT ARISE. INCLUDING ALL SITE CONDITIONS IN TENDER, EXTRAS WILL NOT BE ACCEPTED UNLESS BELIEVED TO BE REASONABLE BY THE OWNER AND CONSULTANT.
4. COORDINATE WITH OTHER CONTRACTORS INSTALLING EQUIPMENT OR MATERIAL AND ARRANGE EQUIPMENT IN PROPER RELATION WITH ALL OTHER TRADES. ENSURE SYSTEMS ARE SERVICEABLE.
5. CUTTING AND PATCHING SHALL BE BY THE CONTRACTOR REQUIRED TO INSTALL THE SERVICE.
6. THE DRAWINGS ARE DIAGRAMMATIC. THE SERVICES SHALL BE INSTALLED TO CONSERVE HEADROOM AND INTERFERE AS LITTLE AS POSSIBLE WITH THE FREE USE OF THE SPACES THROUGH WHICH THEY PASS.
7. PROVIDE TWO MARKED COPIES OF "RECORD DRAWINGS" SHOWING THE SYSTEM AS INSTALLED. PROVIDE UPDATED DIGITAL CAD FILES IN ADDITION TO THE MARKED COPIES. THE DIGITAL AND HARD COPY RECORD DRAWINGS SHALL BE PROVIDED TO THE OWNER AS PART OF THE MAINTENANCE MANUALS.
8. THE MECHANICAL SYSTEMS OF THIS BUILDING MUST ACHIEVE THE ENERGY EFFICIENCY LEVELS BY CONFORMING TO CANADIAN STANDARDS FOR ENERGY EFFICIENCY STANDARDS FOR LOW-RISE RESIDENTIAL BUILDINGS AND CHAPTER 2 OF DIVISION 3 OF S8-10 PRESCRIPTIVE METHOD FROM THE ONTARIO BUILDING CODE.
9. ALL EQUIPMENT AND MATERIAL SHALL BE NEW. REPLACE ALL DAMAGED EQUIPMENT.

- [illegible]

1. THIS PROJECT IS ONE OF A RETROFIT NATURE IN PART, AND WHICH WILL REQUIRE SOME DEMOLITION. ALLOW FOR ALL REMOVED WORK AREAS INDICATED ON THE DRAWINGS AND AS GENERALLY DEFINED IN THE RELEVANT SECTIONS OF THE SPECIFICATIONS.
2. THE SCOPE OF WORK IS ESSENTIALLY THE SELECTED DISCONNECTION AND/OR REMOVAL OF SERVICES AND/OR EQUIPMENT, PIPING, DUCTWORK ETC. AS INDICATED OR REQUIRED TO COMPLETE THE WORK.
3. THIS DIVISION IS TO LIAISE WITH THE OWNERS OR CONSULTANT FOR EQUIPMENT BEING REMOVED THAT MAY BE SUITABLE FOR REUSE TO THAT SPECIFIED OR HANDED OVER TO THE OWNER.
4. THIS DIVISION IS TO TAKE FULL RESPONSIBILITY FOR ANY SPECIAL TOOLS OR EQUIPMENT REQUIRED TO DISASSEMBLE OR REMOVE MATERIAL FROM BUILDING.
5. THE GENERAL EXECUTION OF THE DEMOLITION IS TO BE CARRIED OUT IN A CLEAN AND EFFICIENT MANNER.
6. DEMOLITION OF EXISTING CEILING, WALLS ETC., TO FACILITATE REMOVAL OF EXISTING SERVICES OR EQUIPMENT OR INSTALLATION OF NEW, IS TO BE LEFT TO A MINIMUM AND NOT EXPOSED TO MATCH EXISTING.
7. ALL OPENINGS OR HOLES CREATED BY REMOVAL OF EXISTING MECHANICAL SYSTEMS WHICH ARE NOT BEING REUSED ARE TO BE PATCHED WITH THE SAME MATERIAL SURROUNDING SURFACES.
8. PROTECT ALL EXISTING FURNISHINGS MATERIALS AND EQUIPMENT, ANY DAMAGE OCCURRING AS A RESULT OF THE WORK OF THIS DIVISION SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THIS DIVISION.
9. WHERE WORK INVOLVES BREAKING INTO OR CONNECTING TO EXISTING SERVICES, CARRY OUT WORK AT TIMES DIRECTED BY THE OWNERS IN AN EXPEDIENT MANNER WITH MINIMUM DISRUPTION TO THE FACILITY AND SYSTEMS DOWNTIME.
10. WHERE UNKNOWN SERVICES ARE ENCOUNTERED, IMMEDIATELY ADVISE CONSULTANT AND CONFIRM FINDINGS IN WRITING.
11. WHERE THE LOCATION OF ANY SERVICES HAS BEEN SHOWN ON THE PLANS, SUCH INFORMATION IS NOT GUARANTEED IT IS THIS DIVISION'S RESPONSIBILITY TO VERIFY LOCATIONS, INVERT ELEVATIONS, ETC., IMMEDIATELY AFTER MOVING INTO AREA. SHOULD ANY REASON BE INFORMATION OBTAINED NECESSITATES CHANGES IN PROCEDURE OR DESIGN, ADVISE THE CONSULTANT AT ONCE. IF VERIFICATION OF EXISTING CONDITIONS IS NOT DONE AT THE OUTSET AND ANY PROBLEMS ARISE, THE RESPONSIBILITY FOR SAME IS ENTIRELY THIS DIVISION'S.
12. DISCONNECT AND/OR REMOVE EQUIPMENT PIPING, DUCTWORK, ETC. AS INDICATED.
13. CAP AND CONCEAL ALL REDUNDANT AND OBSOLETE CONNECTIONS.
14. PROVIDE A LIST OF EQUIPMENT TO BE REMOVED TO THE OWNER, FOR HIS ACCEPTANCE OF SAME. REMOVE ALL EQUIPMENT FROM SITE WHICH THE OWNER DOES NOT RETAIN.
15. MAINTAIN EQUIPMENT TO BE RETAINED BY OWNER ON SITE WHERE DIRECTED BY CONSULTANT.
16. DEMOLITION OF ALL PARTS OF THE WORK MUST BE COMPLETED WITHIN THE CONFINES OF THE WORK AREA AND IN SUCH A WAY AS THE DUST PRODUCED AND RISK TO INJURY OF WILL NOT ADVERSELY AFFECT THE BUILDING USERS.
17. DEMOLISHED AREAS OF THE EXISTING BUILDING WILL REMAIN IN THEIR CURRENT USE IN SOME CASES. DEMOLITION IN THESE AREAS MUST BE TO THE MINIMUM REQUIRED TO COMPLETE THE WORK.
18. DEMOLITION SHALL TAKE PLACE WITHIN AREAS ISOLATED FROM ALL OTHER AREAS WITH APPROPRIATE HOARDING, SCAFFOLDING, NETTING, FENCING OR OTHER MEANS OF SECURITY BETWEEN BUILDING USERS AND THE WORK.
19. CO-ORDINATE MAKING SAFE ELECTRICAL DEVICES, CAPPING PLUMBING AND REMOVAL OF FIXTURES PRIOR TO COMMENCEMENT OF DEMOLITION.
20. ALL PIPING AND EQUIPMENT TO BE REMOVED AND/OR ABANDONED SHALL BE DRAINED PRIOR TO CAPPING AND/OR ABANDONING. DISPOSAL OF ALL LIQUIDS SHALL BE TO THE APPROVAL OF AUTHORITY OF HAVING JURISDICTION IN THE/OUR PROVINCIAL REGULATIONS.
21. DRAIN ALL EXISTING PIPING AND DRAINAGE SYSTEMS INCLUDING ALL RELATED EQUIPMENT AS REQUIRED TO FACILITATE SYSTEM RENOVATIONS.

1. CONTRACTOR TO PROVIDE POTABLE WATER CERTIFICATE FOR E. COLI AND COLIFORM FROM A RECOGNIZED TESTING LABORATORY UPON COMPLETION OF THE PROJECT. WATER IS TO BE TAKEN FROM A NEW FIXTURE TO TEST THE NEW PIPING INSTALLED.

2. SERVICES  
CONNECT TO EXISTING SERVICES WHERE SHOWN ON DRAWINGS.

3. CODES AND REGULATIONS  
SANITARY, SOLID WASTE, VENT, AND ALL WATER PIPING SHALL CONFORM AND BE INSTALLED TO THE ONTARIO PLUMBING CODE AND THE CANADIAN PLUMBING CODE, LATEST EDITION. ALL GAS PIPING SHALL CONFORM TO THE CANADIAN GAS CODE AND THE LOCAL GAS DISTRIBUTORS REQUIREMENTS.

4. TESTING  
SANITARY PIPING: ALL SANITARY PIPING SHALL BE TESTED WITH WATER UNDER THE GUIDANCE OF THE LOCAL PLUMBING INSPECTOR. SMOKE TESTS OR ANY OTHER TEST REQUIRED BY THE PLUMBING INSPECTOR SHALL ALSO BE MADE. WATER PIPING: ALL WATER PIPING SHALL BE TESTED TO 150 PSI. PRESSURE FOR NOT LESS THAN FOUR HOURS AT A MINIMUM WITHOUT A LOSS IN PRESSURE.

FLUSHING AND DISINPECTING  
MAINTAIN TESTABLE RP BACKFLOW PREVENTOR BETWEEN MUNICIPAL WATER AND NEW PLUMBING SYSTEM. ENSURE A SUFFICIENT FLOW OF POTABLE WATER TO PRODUCE A VELOCITY OF 1.5 M/S, WITHIN PIPE FOR 10 MIN. OR UNTIL FOREIGN MATERIALS HAVE BEEN REMOVED AND FLUSHED WATER IS CLEAR WITH BACKFLOW PROTECTION. PROVIDE CONNECTED PIPING WITH FLUSH VALVES AND OPERATE FIXTURES TO ENSURE THROUGHO FLUSHING. TAKE WATER SAMPLES AT REMOTE FIXTURES AND SERVICE CONNECTIONS.

5. PIPE AND FITTINGS  
STORM AND VENT DRAINS: (ABOVE GRADE), MEDIUM WEIGHT CAST IRON WITH MECHANICAL RUBBER JOINTS AND VENT PIPING: (BELOW GRADE) RP PVC-FR DRAIN WASTE AND VENT PIPE TO CAN/CAN-B1812. STORM, SANITARY AND WASTE PIPING: (BELOW GRADE) STEEL PIPE TO SDR 35 WITH SOLVENT WELDED JOINTS. ABS DRAINAGE PIPE WITH SOLVENT WELDED JOINTS. WATER PIPING: TYPE I COPPER WITH LEAD FREE SOLDER JOINTS.

6. VALVES  
ISOLATION VALVES: HOT AND COLD WATER BRONZE BODY, CLASS 150, STAINLESS STEEL BALL, FULL PORT, PIPE SIZE AND PACKING, STEEL LEVER HANDLE. MILWAUKEE BA-455, CRANE, TOYO CHECK VALVES: HOT AND COLD WATER VALVES 1/2" DIAMETER TO 2" DIAMETER CRANE FC 1342, OR EQUAL JENKINS BRONZE SWING CHECK. SOLDER ENDS. CRANE G/F. 29 OR EQUAL JENKINS VERTICAL LIFT CHECK VALVE, SCREWED ENDS ON VERTICAL PIPING.

7. CLEAN OUTS  
CLEAN OUT PROVIDE AND SET CLEAN OUT PLUGS IN ALL DRAINS AND SOIL PIPE LINES WHERE OBSTRUCTIONS MAY BE FOUND. AT CHANGES OF DIRECTION, AT THE BASE OF ALL SANITARY STACKS AND AT INTERVALS. LENGTHS TO BE DETERMINED BY PLUMBING INSPECTOR. CLEAN OUTS SHALL BE FULL SIZE, 1/2" TO 4" DIAMETER AND NOT LESS THAN 4" DIAMETER FOR LARGER PIPES. ANCON CO-100-R OR EQUAL.

- TRAP PRIMERS**  
ALL TRAPS WHERE REQUIRED BY THE CODE TO BE PRIMED OR WHERE SHOWN ON THE DRAWINGS SHALL BE INSTALLED END-ON OR EQUAL PRESSURE DROP ACTIVATED TRAP SEAL PRIMER INSTALLED IN THE NEAREST COLD WATER LINE TO THE TRAP. PRIMER SHALL BE CONCEALED, PROVIDED WITH ENCLOSURE FOR INSTALLATION IN WALL AND HAVE INTEGRAL AIR GAP FOR BACKFLOW PREVENTION. PROVIDE ACCESS DOOR.
- AIR CHAMBERS**  
AIR CHAMBERS SHALL BE ONE PIPE SIZE LARGER THAN THE BRANCH PIPE END AND AT LEAST 2'-0" HIGH.
- DRAIN VALVES**  
DRAIN VALVES SUPPLY AND INSTALL 1/2" DIAMETER MUELLER OR EQUAL DRAIN VALVES AT ALL LOW POINTS IN THE WATER SYSTEMS TO COMPLETELY DRAIN THE SYSTEMS. ALL DRIP COCKS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
- PUMPING FIXTURES**  
FIXTURES AS LISTED ON THE DRAWINGS, ALL FIXTURES MUST BE NEW AND CLEAN WHEN THE WORK IS TAKEN OVER BY THE OWNER. ALL PUMPING FIXTURES SHALL BE EQUIPPED WITH SUPPLY VALVES, FAUCETS, TRAPS, SUPPORTS, AND CONNECTIONS. SINKS, SHOWERS, HOBOTS, ETC. FIXTURES SHALL BE CRANE OR EQUAL AMERICAN STANDARD, KOHLER, TRIPS: 2" DIAMETER AND SMALLER, SHALL BE CAST BRASS AND CHROME PLATED IN EXPOSED AREAS. ALL SINK TRAPS SHALL BE TWO PIECE CONSTRUCTION, ALL TRIM MUST BE CAMBRIDGE BRASS OR EQUAL. O.C. SHALL BE RESPONSIBLE FOR PROTECTING FINISHES FROM DAMAGE CAUSED BY PUMPS AND LEFT READY FOR USE. AFTER FINAL INSPECTION BY THE PLUMBING INSPECTOR CALLK AROUND BASE OF ALL FIXTURES TO THE WALL OR FLOOR WITH SILICONE CAULKING.
- FIRE EXTINGUISHERS**  
FIRE EXTINGUISHERS WHERE SHOWN ON DRAWINGS NATIONAL OR EQUAL UL LABELED 5 LB. MULTIPURPOSE DRY CHEMICAL FIRE EXTINGUISHERS WITH HOSE, SHOOTER NOZZLE AND WALL MOUNTING BRACKETS. PROVIDE RECESSED WALL CABINET WHERE NOTED.
- EXPANSION COMPENSATION**  
PIPING  
COMPENSATORS TO PERMIT FREE EXPANSION AND CONTRACTION WITHOUT CAUSING DAMAGE TO OR STRESSES AT JOINTS AND HANGER AND TO REDUCE STRAIN ON CONNECTED EQUIPMENT TO A MINIMUM.
- PIPE INSULATION**  
INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING AND STORM PIPING ABOVE GRADE, WITH 1" (FOR PIPING UNDER 1 1/2" DIAMETER) OR 1 1/2" (FOR PIPING 1 1/2" DIAMETER AND HIGHER) FIBERGLASS INSULATION WITH VAPOR BARRIER. INSTALL PER MANUFACTURERS' RECOMMENDATIONS. RECOVER EXPOSED PIPING WITH 6 OZ. CARBON CLOAK AND TWO COATS GLAZER ADHESIVE.

1. DUCTWORK TO BE CONSTRUCTED TO SMACNA STANDARDS, MEDIUM STATIC PRESSURE WITH LEAKAGE RATE OF 5% MAXIMUM. FABRICATED IN ACCORDANCE WITH RECOMMENDATIONS OF SMACNA AND ASHRAE. SEAL ALL TRANSVERSE JOINTS AND LONGITUDINAL JOINTS WITH DUCT SEALER.
2. ROUND AND OVAL DUCTS: FACTORY FABRICATED, SPIRAL WOUND, WITH MATCHING FITTINGS AND SPECIALS TO SMACNA STANDARDS. JOINTS UP TO 900 MM (36") SLIP TYPE WITH TAPE AND SEALANTS.
3. SQUARE AND RECTANGULAR DUCTS TO SMACNA. TRANSVERSE JOINTS, LONGEST SIDE UP TO AND INCLUDING 750 MM (30"); SMACNA PROPRIETARY DUCT JOINTS.
4. DAMPERS  
ALL DAMPERS TO BE SMACNA RECOMMENDATIONS AS MINIMUM ACCEPTABLE STANDARD, SINGLE BLADE BALANCING ROUND AND RECTANGULAR, MAXIMUM 100MM (4") THICK, OR SAME MATERIAL AS DUCT BUT ONE SHEET METAL THIN. OTHER MANUFACTURER'S DAMPERS ACCEPTED WITH LOCKING QUADRANT, MANUFACTURED TO SMACNA STANDARDS. ADJUSTABLE EXTENDERS TO BE WITH ADJUSTMENT ROD, ACCEPTABLE PRODUCTS: TUST, MAJOR OR EQUAL.

5. FLEXIBLE CONNECTIONS  
AT ALL DUCT CONNECTIONS TO FANS AND AIR HANDLING UNITS, NEOPRENE COATED GLASS FABRIC, NOT MORE THAN 6" LONG BETWEEN METAL PARTS INSTALLED SUFFICIENT SLACK TO PREVENT VIBRATION TRANSMISSION. ALLOW MOVEMENT (2") TO LOW PRESSURE FANS.
6. TURNING VANS  
SMALL ARC AIRFOIL HOLLOW VANS IN SUPPLY DUCT ELBOW WHERE CENTERLINE RADIUS IS LESS THAN 1 1/4 TIMES TURNING DIMENSION OF DUCT.
7. GRILLES, REGISTERS AND DIFFUSERS  
GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE SAME MANUFACTURER, TYPE AS SHOWN ON THE DRAWING. ACCEPTABLE MATERIALS: E.H. PRICE, TITUS, NAILOR, KRUEGER, TUTTLE & BAILEY, METALAIR.
8. FLEXIBLE DUCTWORK  
METALLIC ALUMINUM FLEXIBLE DUCTWORK MANUFACTURED BY FLEXMASTER LTD., OR EQUAL BETWEEN BRANCH DUCTS AND GRILLES, REGISTERS AND DIFFUSERS. MAXIMUM LENGTH SHALL BE 6'-0".
9. ACOUSTIC DUCT LINER  
RIGID DUCT LINER 1" THICK 36 KG/M<sup>3</sup> WITH NEOPRENE LINER GLUED AND PINNED TO INSIDE SURFACE OF DUCTWORK. MINIMUM 3.0M (10') FROM ALL AIR HANDLERS AND WHERE SHOWN ON DRAWINGS. SEAL ALL EXPOSED EDGES. DUCT SIZING REPRESENTS CLEAR INSIDE DIMENSIONS.

- [illegible]

12.1. VENTILATION SCHEDULE MODE: SCHEDULE BY WEEKDAYS  
MODE IS ACTIVE USUALLY BETWEEN 11:00 P.M. TO 7:00 A.M. MONDAY TO FRIDAY AND 24 HOURS SATURDAY AND SUNDAY. SYSTEM IS ON WHEN THERE IS NO WORKING HOUR. DAMPER OR STANDING DAMPER IS OPENED. THE SYSTEM WILL CYCLE BETWEEN IDE STATE, HEATING STATE OR PUSHBUTTON OVERRIDE STATE TO MEET THE DEMANDS FROM EACH STATE AND RETURN TO THE IDE STATE WHEN THE DEMANDS ARE SATISFIED.

12.2. STATE:  
THE SUPPLY FAN IS OFF, THE RETURN FAN IS OFF (WHERE APPLICABLE), THE GLOBAL VENTILATION SCHEDULE IS OFF, THE OUTDOOR AIR TEMPERATURE IS LOWER THAN THE SETPOINT, THE COOLING DAMPERS ARE OPENED AND COOLING IS DISABLED, THE BYPASS DAMPER IS IN THE 100 % OPEN POSITION, THE ZONE DAMPERS ARE IN THE 50 % OPEN POSITION.

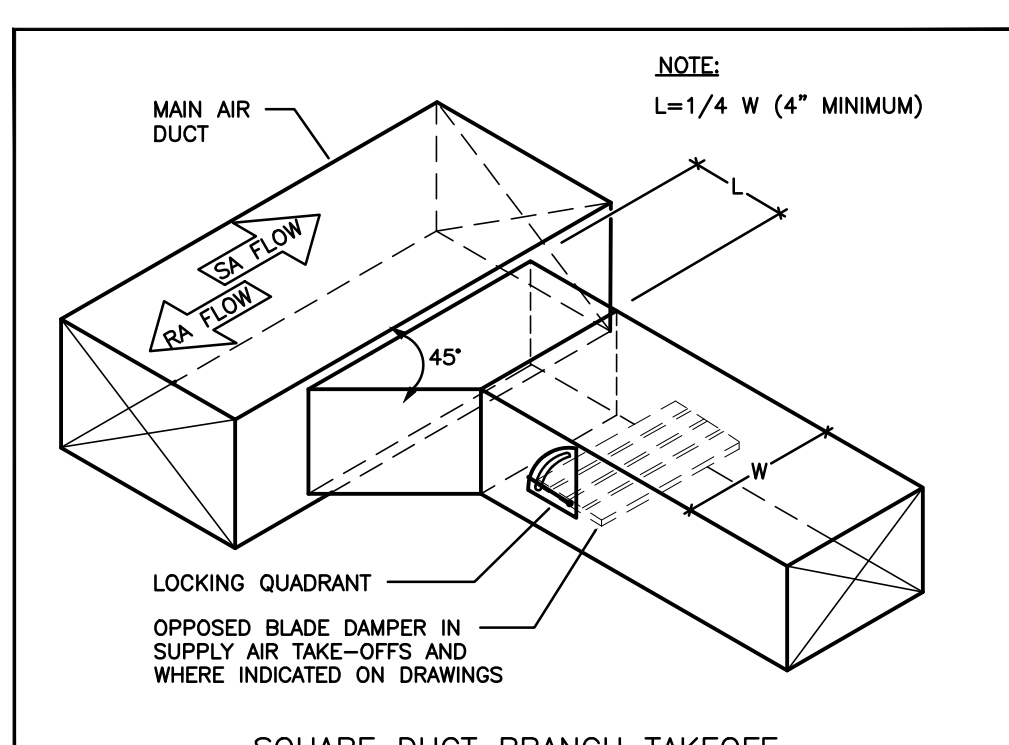
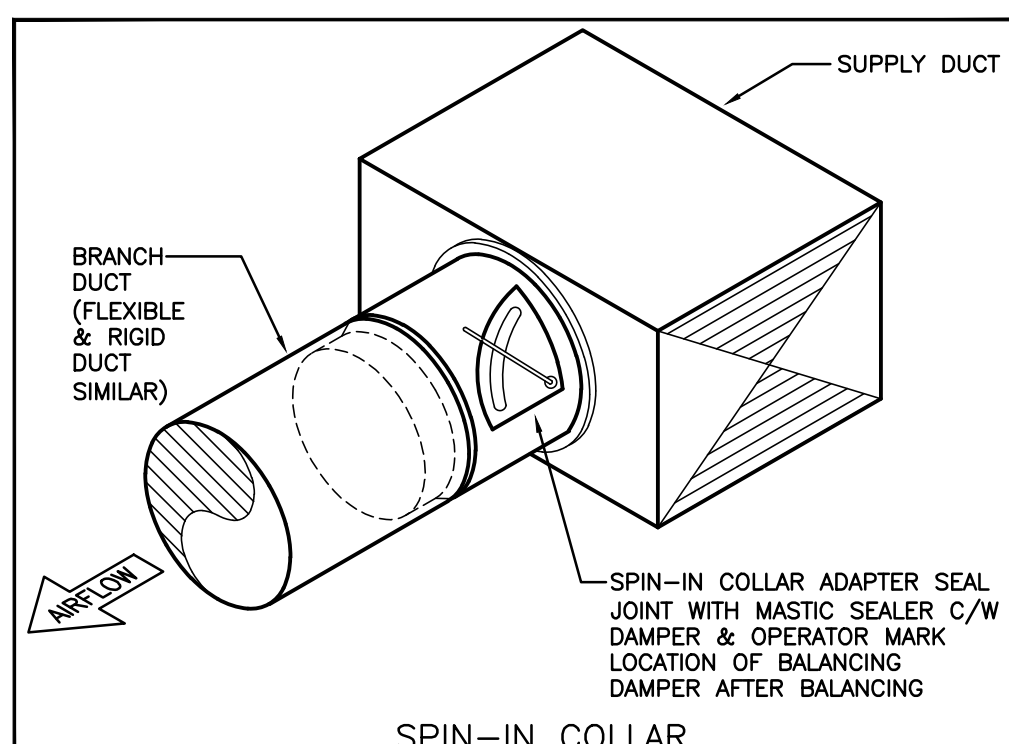
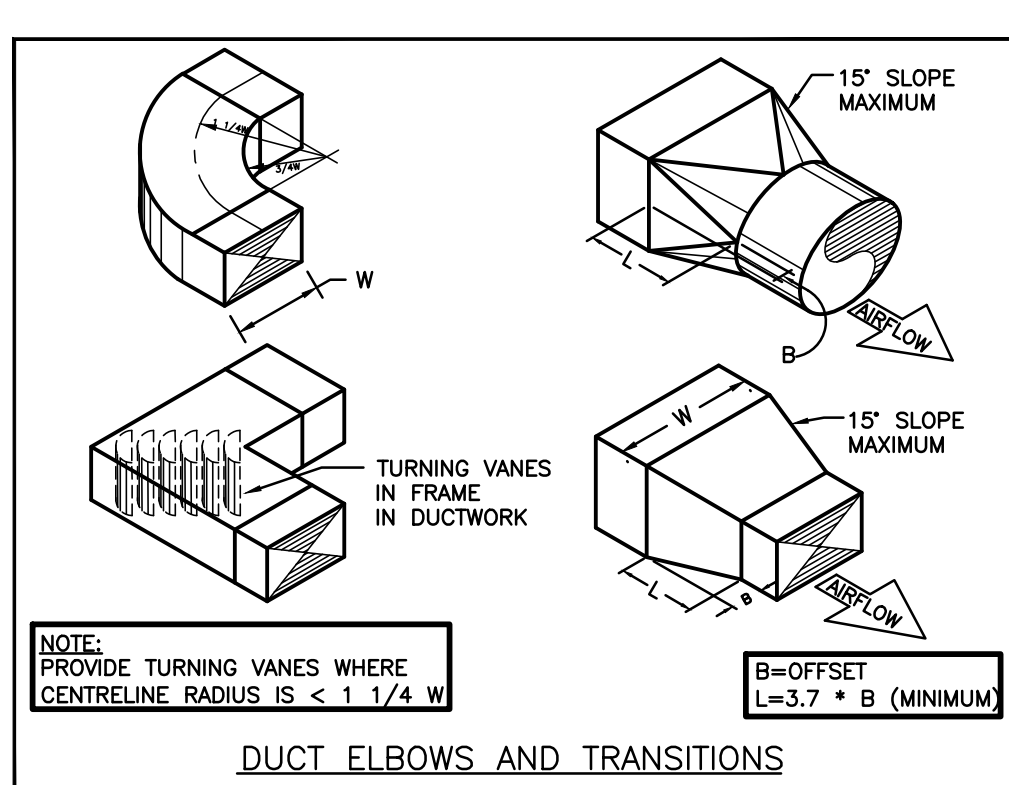
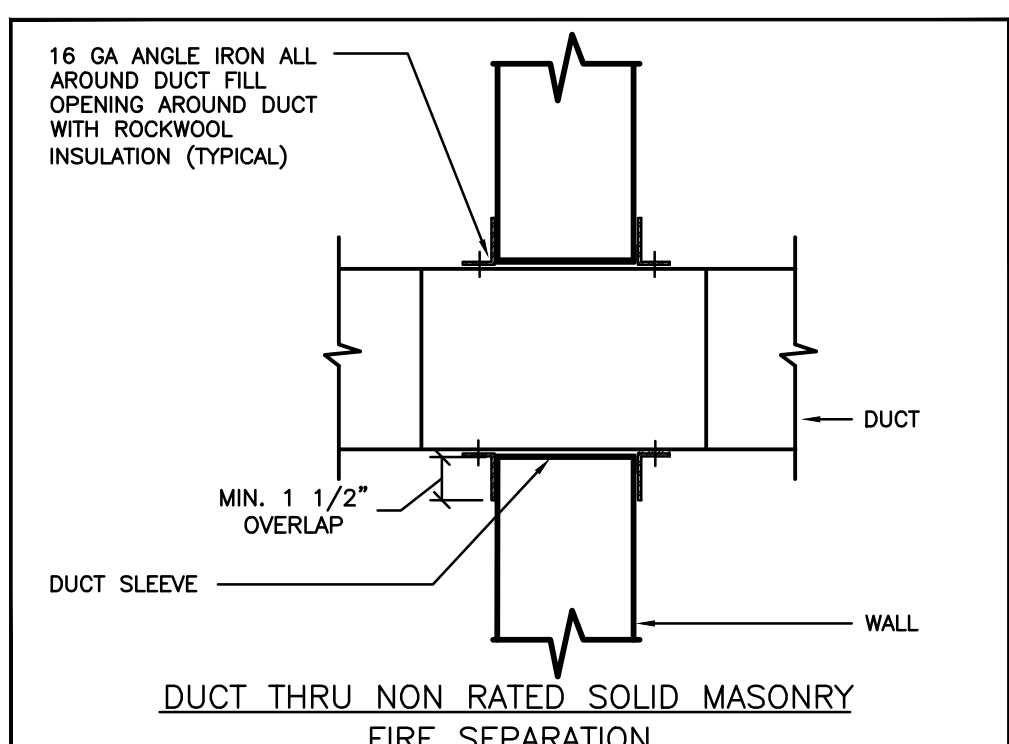
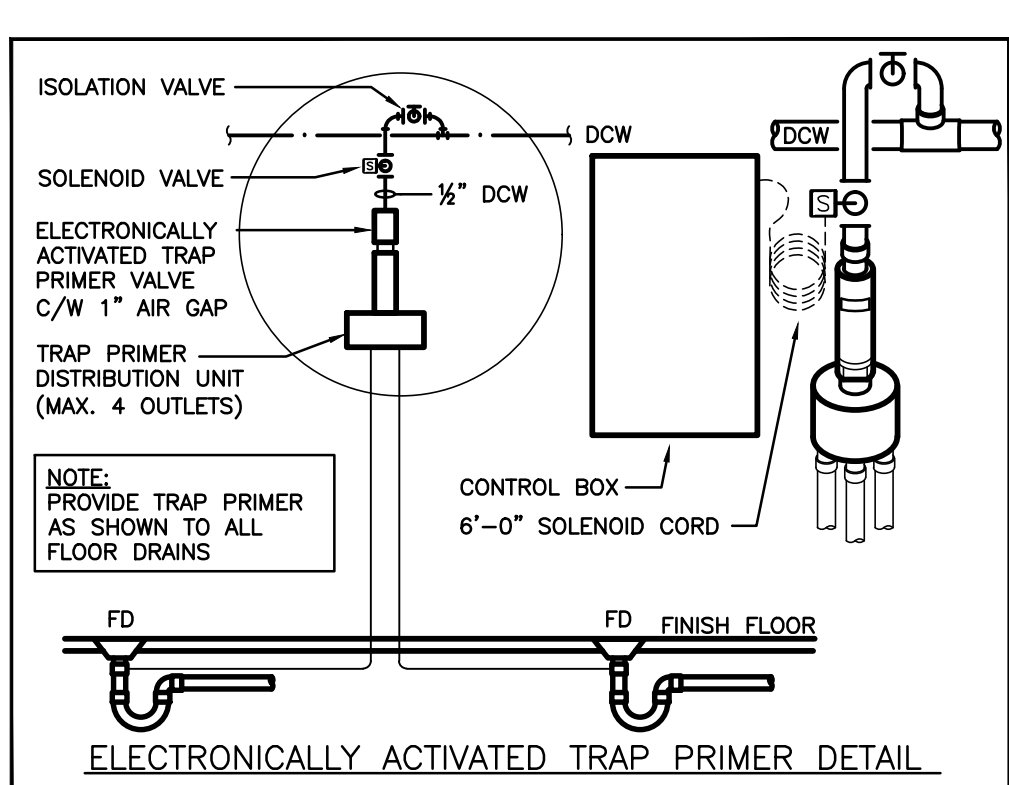
12.3. HEATING STATE:  
SYSTEM CYCLES ON A CALL FOR UNOCCUPIED HEATING, A FULL CALL FOR [ALL STAGES OR FULL HEAT MODULATION (WHERE APPLICABLE) HEATING UNTIL SETPOINT IS REACHED. THE VAV HVAC UNIT SUPPLY AIR STATISTICS ARE USED TO DETERMINE THE DAMPER POSITION. THE DAMPER POSITION IS USED TO DISCRIMINATE TO OBTAIN SETPOINT. UNOCCUPIED HEATING TEMPERATURE NOMINALLY 16.0 °C. SPACE TEMPERATURE SETPOINT IS INCREASED TO 18.0 °C. OUTDOOR AIR TEMPERATURE IS LOWER THAN 10.0 °C. OUTDOOR AIR TEMPERATURE IS LOWER AND 18.0 °C AT -20.0 °C OUTDOOR AIR TEMPERATURE OR LOWER (EACH ADJUSTABLE). MECHANICAL COOLING IS DISABLED. FAN COOLING IS DISABLED. GLOBAL VENTILATION SCHEDULE IS DISABLED.


12.4. COOLING STATE:  
AN OPTIMIZED SCHEDULE, BASED ON THE TIME OF DAY SCHEDULE, OUTDOOR AIR TEMPERATURE AND THE LOWEST INDOOR ZONE TEMPERATURE IS PROVIDED FOR HEATING, THE GLOBAL VENTILATION SCHEDULE IS DISABLED, THE SYSTEM IS ON, THE RETURN FAN IS ON (WHERE APPLICABLE), THE OUTDOOR AIR TEMPERATURE DAMPERS ARE IN THE 0 % OUTDOOR AIR POSITION, HEATING IS ENABLED AT FULL CAPACITY AND THE COOLING IS DISABLED, THE VAV BYPASS DAMPER(S) STARTS IN THE 100 % OPEN POSITION, THE ZONE DAMPERS START IN THE 50 % OPEN

POSITION. THE OPTIMIZED START PROGRAM IS TO BEGIN UP TO 105 MINUTES (ADJUSTABLE) BEFORE THE OCCUPANCY SCHEDULE TO ALLOW FOR MORNING WARM UP TO BRING THE LOWEST ZONE TEMPERATURE UP TO OCCUPANCY SETPOINT. FREE COOLING: DISABLED. MECHANICAL COOLING: DISABLED. GLOBAL VENTILATION SCHEDULE: DISABLED. THE SYSTEM EXITS MORNING WARMUP MODE AND CONTINUES INTO OCCUPIED MODE WHEN THE LOWEST INDOOR ZONE TEMPERATURE IS WARMED UP TO DEFAULT ROOM TEMPERATURE SETPOINT.

7. OCCUPIED MODE: GLOBAL VENTILATION MODULATES THE HVAC UNIT(S) ALONG WITH AN OPTIMUM START PROGRAM USUALLY BETWEEN 7:00 AM AND 4:00 P.M. MONDAY TO FRIDAY, WHEN NOT OVERRIDDEN BY A HOLIDAY SCHEDULE. STANDBY OCCUPANCY MODE OR UNOCCUPIED MODE: GLOBAL VENTILATION SCHEDULE IS ENABLED. HVAC UNIT(S) OPERATE NORMALLY BY CURRENT SENSING DEVICE(S) OR VFD FEEDBACK. FAN OPERATION: THE SUPPLY FAN AND RETURN FAN (WHERE APPLICABLE) RUN CONTINUOUSLY. ROOM HEATING TEMPERATURE SETPOINT: MINIMUM 21.5 °C +/- 1.0 °C (ADJUSTABLE). ROOM FREE COOLING ENABLED TEMPERATURE SETPOINT: MINIMUM 22.5 °C +/- 1.0 °C (ADJUSTABLE). ROOM HEATING TEMPERATURE SETPOINT: MINIMUM 24.5 °C +/- 1.0 °C (ADJUSTABLE). GLOBAL VENTILATION SCHEDULE: ENABLED.
8. STANDBY OCCUPANCY MODE: GLOBAL VENTILATION MODULATES THE HVAC UNIT(S) USUALLY BETWEEN 4:00 P.M. AND 11:00 P.M. MONDAY TO FRIDAY. MINIMUM OUTDOOR AIR SET TO ZERO WHEN THE GLOBAL VENTILATION SCHEDULE IS OFF. FAN OPERATION: SUPPLY FAN AND RETURN FAN (WHERE APPLICABLE) RUN CONTINUOUSLY. ROOM HEATING TEMPERATURE SETPOINT: MINIMUM 21.5 °C +/- 1.0 °C (ADJUSTABLE). ROOM FREE COOLING TEMPERATURE SETPOINT: MINIMUM 22.5 °C +/- 1.0 °C (ADJUSTABLE). GLOBAL VENTILATION SCHEDULE: DISABLED.
9. ZONE DAMPER: THE ROOM SUPPLY MODULATOR MODULATES THE ZONE DAMPER BETWEEN MINIMUM AND MAXIMUM SETTINGS TO MAINTAIN (OCCUPIED, STANDBY, OR UNOCCUPIED) MODE TEMPERATURES. THE SETPOINT IS ADJUSTABLE AT THE SENSOR. THE CONTROL IS REVERSE ACTION WHEN THE SUPPLY TEMPERATURE IS MORE THAN 1 °C ABOVE ROOM TEMPERATURE. IF THE SYSTEM MODE IS DIFFERENT FROM THE ZONE MODE (E.G. SYSTEM IS IN HEATING MODE BUT ZONE REQUIRES COOLING), THE ZONE DAMPER CLOSURES TO A REDUCED MINIMUM POSITION TO MINIMIZE OVERHEATING. A MINIMUM OF 5 MINUTES TO CHANGEOVER BETWEEN HEATING TO COOLING MODES IS REQUIRED.
10. SUPPLY AIR STATIC PRESSURE: THE SUPPLY AIR STATIC PRESSURE SENSOR MODULATES THE BYPASS DAMPER BETWEEN MINIMUM AND MAXIMUM SETTINGS TO MAINTAIN SUPPLY AIR STATIC PRESSURE SETPOINT. REDUCE THE SUPPLY AIR STATIC PRESSURE SETPOINT TO MAINTAIN SUPPLY AIR STATIC PRESSURE SETPOINT. INCREASE SUPPLY AIR STATIC PRESSURE SETPOINT TO INCREASE SUPPLY AIR STATIC PRESSURE. REDUCE DURING UNOCCUPIED MODE SETBACK, INCREASE SUPPLY AIR STATIC PRESSURE SETPOINT, TYPICALLY 1.0 PA ABOVE ROOM TEMPERATURE.
11. VENTILATION SEQUENCE: THE SYSTEM OPERATES IN VENTILATION MODE (NO HEATING OR COOLING) UNDER THE FOLLOWING CONDITIONS: 1) THE ROOM SUPPLY MODULATOR MODULATES THE ZONE DAMPER BETWEEN MINIMUM AND MAXIMUM SETTINGS TO MAINTAIN SUPPLY AIR STATIC PRESSURE SETPOINT. 2) THE SUPPLY AIR STATIC PRESSURE SETPOINT IS MORE THAN 1 °C ABOVE ROOM TEMPERATURE. IF THE SYSTEM MODE IS DIFFERENT FROM THE ZONE MODE (E.G. SYSTEM IS IN HEATING MODE BUT ZONE REQUIRES COOLING), THE ZONE DAMPER CLOSURES TO A REDUCED MINIMUM POSITION TO MINIMIZE OVERHEATING. A MINIMUM OF 5 MINUTES TO CHANGEOVER BETWEEN HEATING TO COOLING MODES IS REQUIRED.
12. SEQUENCES SHALL BE AS PER WROSB MASTER SECTIONS. REFER TO DOCUMENTATION FROM WROSB. THIS IS AVAILABLE UPON REQUEST.
- SYSTEM BALANCING
- THE BASEBOARDS ARE SUPPLIED WITH NEW CERTIFIED FIRM AND AS PER NEB REQUIREMENTS TO WITHIN 5% OF THE SUPPLY CAPACITY. PROVIDE 3 COPIES OF BALANCING REPORTS C/W SYSTEM SCHEDMATICs.
- ELECTRIC BASEBOARD HEATERS
- HEATERS SHALL BE STANDARD WATTAGE DENSITY WITH CONNECTION BOX AT ONE END, ELEMENT THROUGH-TYPE TIED WITH ALUMINUM CONVECTOR VANES AND RESISTOR WIRE ENCLOSED IN MINERAL INSULATION IN COPPER SHEATHING.
- HEATERS SHALL BE MOUNTED AND SUPPORTED AT ADDITIONAL POINTS THROUGH LENGTH TO ALLOW FOR LINEAR EXPANSION WITH NON METALLIC SUPPORTS.
- HEATERS SHALL BE BOTTOM INLET/OUTLET FRONT PANEL 1.6 MM THICK, FINISHED IN BAKED ENAMEL (COLOUR TO BE AS ARCHITECT). INTEGRAL AIR DIFFUSION REFLECTOR WITH WIREWAY AT BOTTOM.
- INLET CABINET SECTIONS WHERE SPECIFIED SHALL BE COMPLETE WITH WIREWAY IN ALL SECTIONS INCLUDING SPLICING AND WIRING. THE WIRING SHALL BE AS PER WROSB MASTER SECTIONS. THIS IS AVAILABLE UPON REQUEST.
- INLET SHALL BE INTEGRAL 2 POLE THERMOSTATS TO CONTROL LOAD OF HEATER SPECIFIED.
- CONTROLS MANUFACTURERS: OJELLETT, STELPO, WESTCAN.

- SHALL BE THE RESPONSIBILITY OF THE EQUIPMENT MANUFACTURER TO PAY ALL COSTS ASSOCIATED WITH THE VISIONS TO THE ELECTRICAL CONTRACT.



**Consulting Engineers**   
MECHANICAL, ELECTRICAL, AQUATIC

52 Northland Road, Waterloo, ON N2Y 5V8  
Phone: 519 759 5515  
Website: [www.ceconsultants.ca](http://www.ceconsultants.ca)  
Project Number: 35066

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant in writing immediately after the work is completed.

The drawings shall show general arrangement of services. Unless as closely as actual building construction will permit, obtain approval for relocation of services from the Consultant before commencement of the work.

The drawings shall not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.

For all reconfigurations, etc., prepared and issued by the Consultant or the Contractor, the Contractor shall be responsible for return of the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not sign this drawing.

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DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT; AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

**HILLSIDE PUBLIC  
SCHOOL MAIN OFFICE  
& CLASSROOM  
RENOVATION**

11 CHOPIN DRIVE,  
KITCHENER, ON



## MECHANICAL DETAILS AND SPECIFICATION

		<b>HOSSACK &amp; ASSOCIATES</b> <b>ARCHITECTS</b>	
2-216 DUMFRIES DRIVE MISSISSAUGA, ONTARIO L5B 0A8 Tel: (905) 607-6284 Fax: (905) 607-6280			
SCALE		PROJECT	
As indicated		24143	
DATE	25.02.27		
DRAWN	SDS	DRAWING	
CHECKED	TE	M301	
PRINT DATE		3/27/2025 10:29:43 AM	
REVIS FILE		J:201515121027.Rev1t.RVT	



## EXISTING PANEL 'LP-A' SCHEDULE

VOLTAGE: 120/208 VOLTS  
PHASE: 3P, 4W  
MAINS: 225A  
NEUTRAL BUS:  
MOUNTING: SURFACE  
NOTES: EXISTING PANEL FEDERAL PIONEER NBLP-42-4L

ER	EXISTING LOAD	15A	1	2	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	3	4	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	5	6	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	7	8	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	9	10	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	11	12	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	13	14	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	15	16	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	17	18	15A	REFRIGERATOR
ER	EXISTING LOAD	15A	19	20	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	21	22	15A	WASHER REC.
ER	EXISTING LOAD	15A	23	24	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	25	26	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	27	28	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	29	30	15A	KITCHEN RECS & DISHWASHER
SP	KITCHEN REC	15A	31	32	15A	KITCHEN REC
SP	KITCHEN REC	15A	33	34	15A	EXISTING FREEZER REC.
D	EXISTING ELEC. HEAT	20A	35	36	30A	EXISTING DRYER
D		2P	37	38	2P	
D	EXISTING STOVE REC.	50A	39	40	50A	EXISTING STOVE REC.
D		2P	41	42	2P	

## PROPOSED PANEL 'LP-A' SCHEDULE

AT THE COMPLETION OF THE PROJECT, PROVIDE A NEW TYPE WRITTEN PANEL DIRECTORY AND INCLUDE A COPY IN THE MAINTENANCE MANUALS

ER	EXISTING LOAD	15A	1	2	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	3	4	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	5	6	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	7	8	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	9	10	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	11	12	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	13	14	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	15	16	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	17	18	15A	REFRIGERATOR
ER	EXISTING LOAD	15A	19	20	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	21	22	15A	WASHER REC.
ER	EXISTING LOAD	15A	23	24	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	25	26	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	27	28	15A	EXISTING LOAD
ER	EXISTING LOAD	15A	29	30	15A	KITCHEN RECS & DISHWASHER
ER	KITCHEN REC	15A	31	32	15A	KITCHEN REC
ER	KITCHEN REC	15A	33	34	15A	EXISTING FREEZER REC.
NB	CLASSROOM A107 RECS.	15A	35	36	15A	KITCHEN T-SLOT REC.
NB	CLASSROOM A107 RECS.	15A	37	38	15A	KITCHEN T-SLOT REC.
NB	MEETING RM. REC.	15A	39	40	15A	NUTRI. FRIDGE REC.
NB	SPARE	15A	41	42	15A	NUTRI. FRIDGE REC.

### DESIGNATION

'ER' INDICATES EXISTING SERVICE AND BREAKER THAT SHOULD REMAIN UNTOUCHED  
'SP' INDICATES EXISTING BREAKER THAT MAY BECOME SPARE DUE TO DEMOLITION. (CONFIRM ON SITE)  
'RW' INDICATES EXISTING BREAKER THAT SHOULD BE REWIRED TO SERVICE. DEVICES INDICATED ON PLAN  
'SB' INDICATES SPARE BREAKER TO BE USED FOR NEW SERVICE INDICATED  
'NB' INDICATES NEW BREAKER AND WIRING TO SERVICE INDICATED. PROVIDE MOUNTING HARDWARE AS REQUIRED.  
'D' INDICATES EXISTING BREAKER TO BE REMOVED COMPLETE. PROVIDE FILLER PLATES AS REQUIRED.  
NOTES: THIS CONTRACTOR IS TO INVESTIGATE BREAKERS AND REVISE PANEL SCHEDULES TO SUIT RENOVATION, NOTING ANY BREAKERS THAT BECOME SPARE DUE TO DEMOLITION. THIS CONTRACTOR IS ALSO TO NOTIFY THE CONSULTANT OF ANY BREAKERS THAT ARE INDICATED TO BE DEMOLISHED OR REUSED, BUT WHICH ARE IN USE BY OTHER DEVICES OR SERVICES.

## PANEL 'AM'

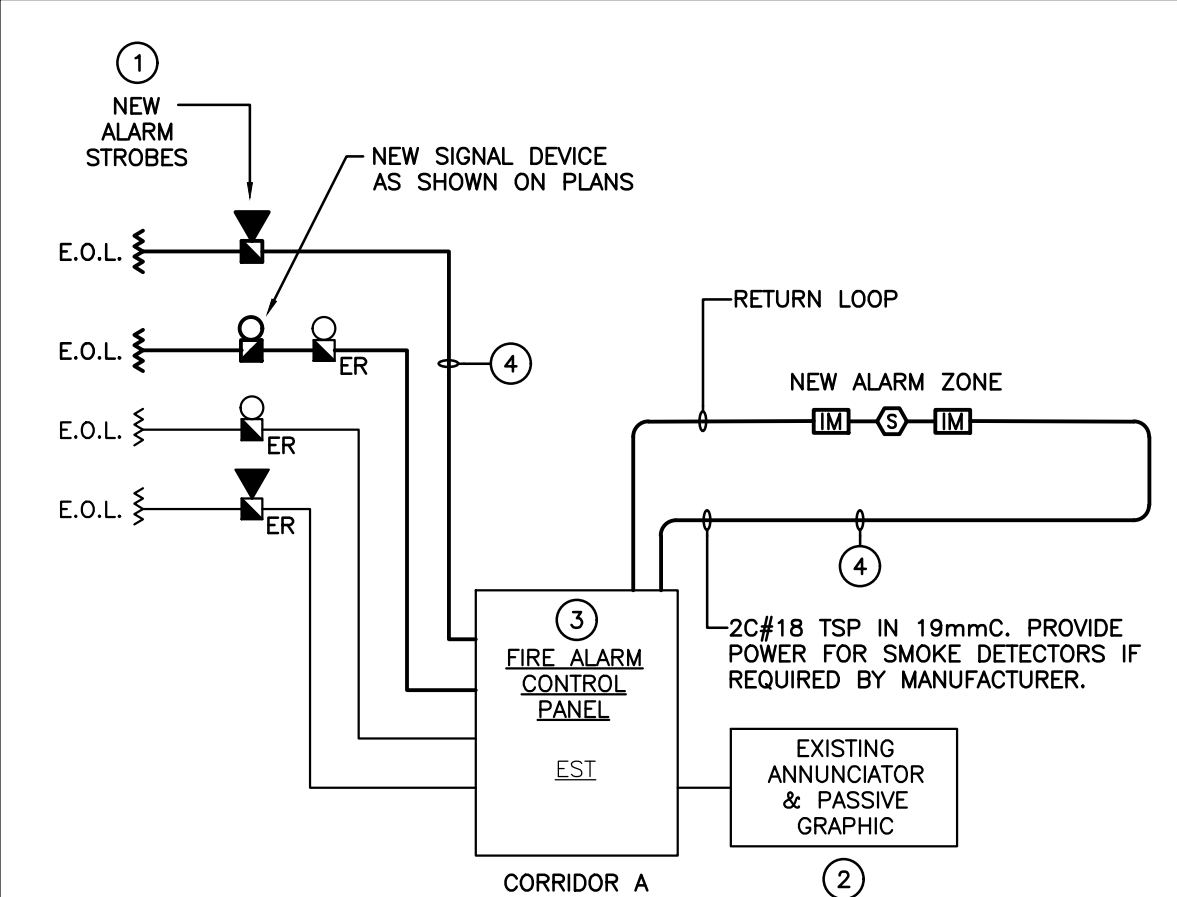
VOLTAGE: 20/208 VOLTS  
PHASE: 3P, 4W  
MAINS: 225A  
NEUTRAL BUS: FULL  
MOUNTING: RECESSED  
NOTES: SINGLE TUB

\* INDICATES 33mA GROUND FAULT STYLE BREAKER

THE CONTRACTOR IS TO COORDINATE ROOM NAMES AND NUMBERS NOTED WITH THE FINAL ROOM INFORMATION ISSUED DURING CONSTRUCTION AND ADJUST DIRECTORIES TO SUIT.

STAFF RM A100 LTG.	20A	1	2	15A	OFFICE AREA EMERGENCY LTG.
GEN. OFFICE A106 LTG.	20A	3	4	20A	STAFF ROOM TABLE RECS.
PRINCIPAL GEN. RECS.	15A	5	6	20A	STAFF ROOM TABLE RECS.
PRINCIPAL GEN. RECS.	15A	7	8	15A	STAFF ROOM COUNTER RECS.
VP OFFICE GEN. RECS.	15A	9	10	15A	STAFF RM. DISHWASHER
VP OFFICE GEN. RECS.	15A	11	12	50A	STAFF RM. STOVE CONNECTION
GENERAL OFFICE RECS.	15A	13	14	2P	
PRINTER/COPYER REC.	15A	15	16	15A	TRAP PRIMER
P/O QUAD RECEPTACLE	15A	17	18	15A	STAFF RM. FRIDGE RECS.
OFFICE DESK QUAD RECS.	15A	19	20	15A	STAFF RM. FRIDGE RECS.
OFFICE DESK QUAD RECS.	15A	21	22	15A	STAFF RM. GEN. RECS.
MAIN OFFICE DOOR OP.	15A	23	24	20A	HAND DRYER
BASEBOARD HEATER	20A	25	26	20A	HAND DRYER
	2P	27	28	20A	WASHROOM HARDWIRED FAUCETS
BASEBOARD HEATER	15A	29	30	20A	SPARE
	2P	31	32	20A	SPARE
SPARE	20A	33	34	20A	SPARE
SPARE	15A	35	36	15A	SPARE
SPARE	15A	37	38	15A	SPARE
SPARE	15A	39	40	15A	SPARE
SPACE	15A	41	42	15A	SPACE
SPACE		43	44	SPACE	
SPACE		45	46	SPACE	
SPACE		47	48	SPACE	
SPACE		49	50	SPACE	
SPACE		51	52	SPACE	
SPACE		53	54	SPACE	
SPACE		55	56	SPACE	
SPACE		57	58	SPACE	
SPACE		59	60	SPACE	

NOTE: THE INDICATED PANEL ASSEMBLY MUST HAVE AN INTERRUPTING CAPACITY OF 10000A - PROVIDE BY EITHER FULLY RATED BREAKERS OR INTEGRATED EQUIPMENT RATING WITH THE UPSTREAM BREAKER.

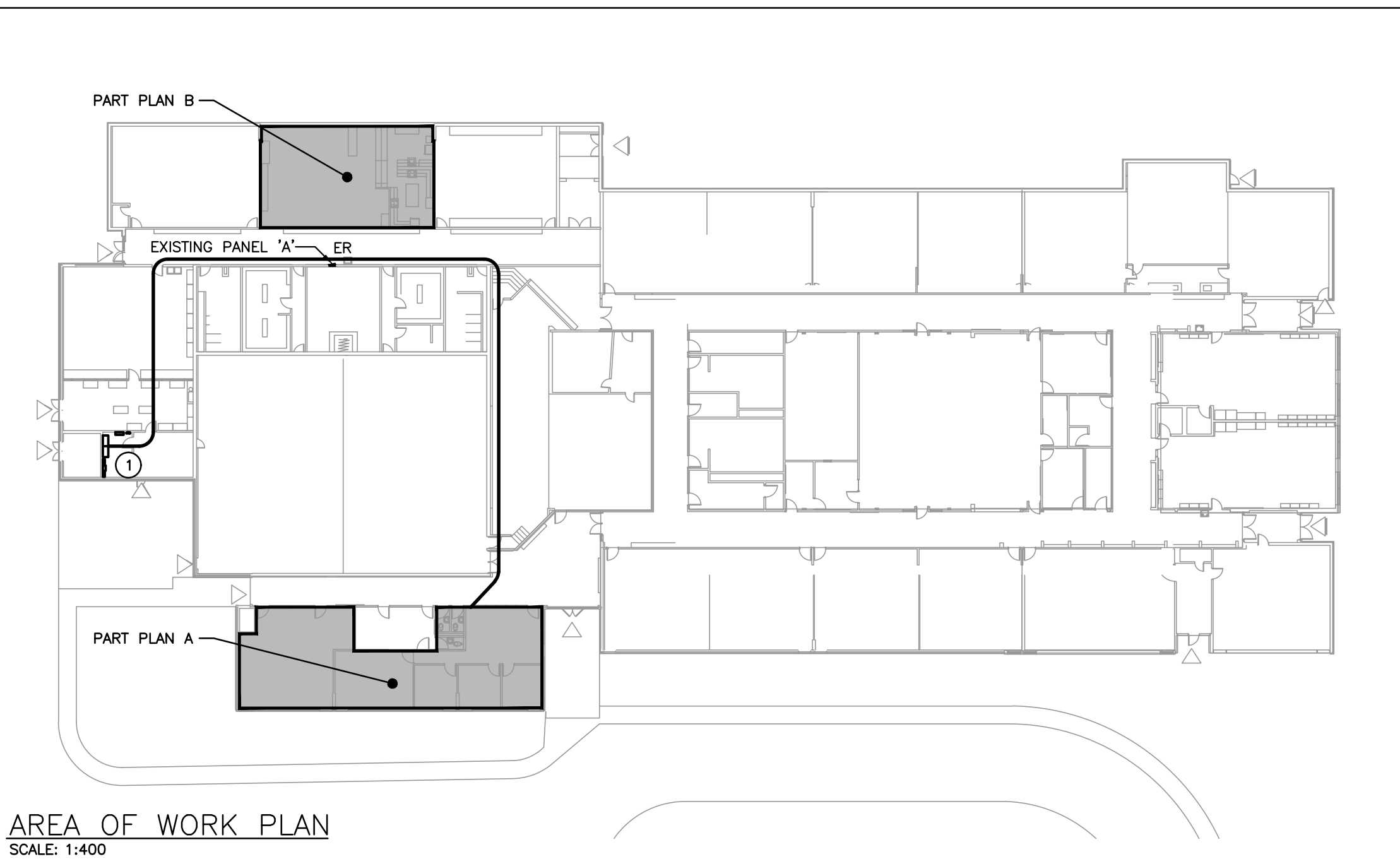


## A-PARTIAL FIRE ALARM RISER

SCALE: N.T.S.

### NOTES

- ELECTRICAL CONTRACTOR IS TO PROVIDE BOOSTER MODULE FOR NEW SIGNAL CIRCUIT AND EXISTING SIGNAL CIRCUIT TO SUPPORT ADDITIONAL SIGNAL DEVICES. PROVIDE 15A-1P BREAKER IN NEAREST 120/208V PANEL FOR BOOSTER MODULE. UPDATE PANEL SCHEDULES ACCORDINGLY.
- INDICATES EXISTING PASSIVE GRAPHIC TO BE REVISED WITH NEW FIRE ALARM ZONE(S). PROVIDE ALTERNATIVE LAYOUT FOR EACH PASSIVE GRAPHIC ORIENTATION VIA SHOP DRAWING SUBMISSION. REVISE ORIENTATION AND "YOU ARE HERE" LOCATION TO SUIT.
- PROVIDE NEW ALARM ZONE "MAIN SWITCHBOARD ROOM". UPDATE ANNUNCIATOR ACCORDINGLY.
- PROVIDE NEW FIRE ALARM LOOP FOR NEW DEVICES. CONFIRM WIRING REQUIREMENTS WITH RESPECTIVE SYSTEM MANUFACTURER.



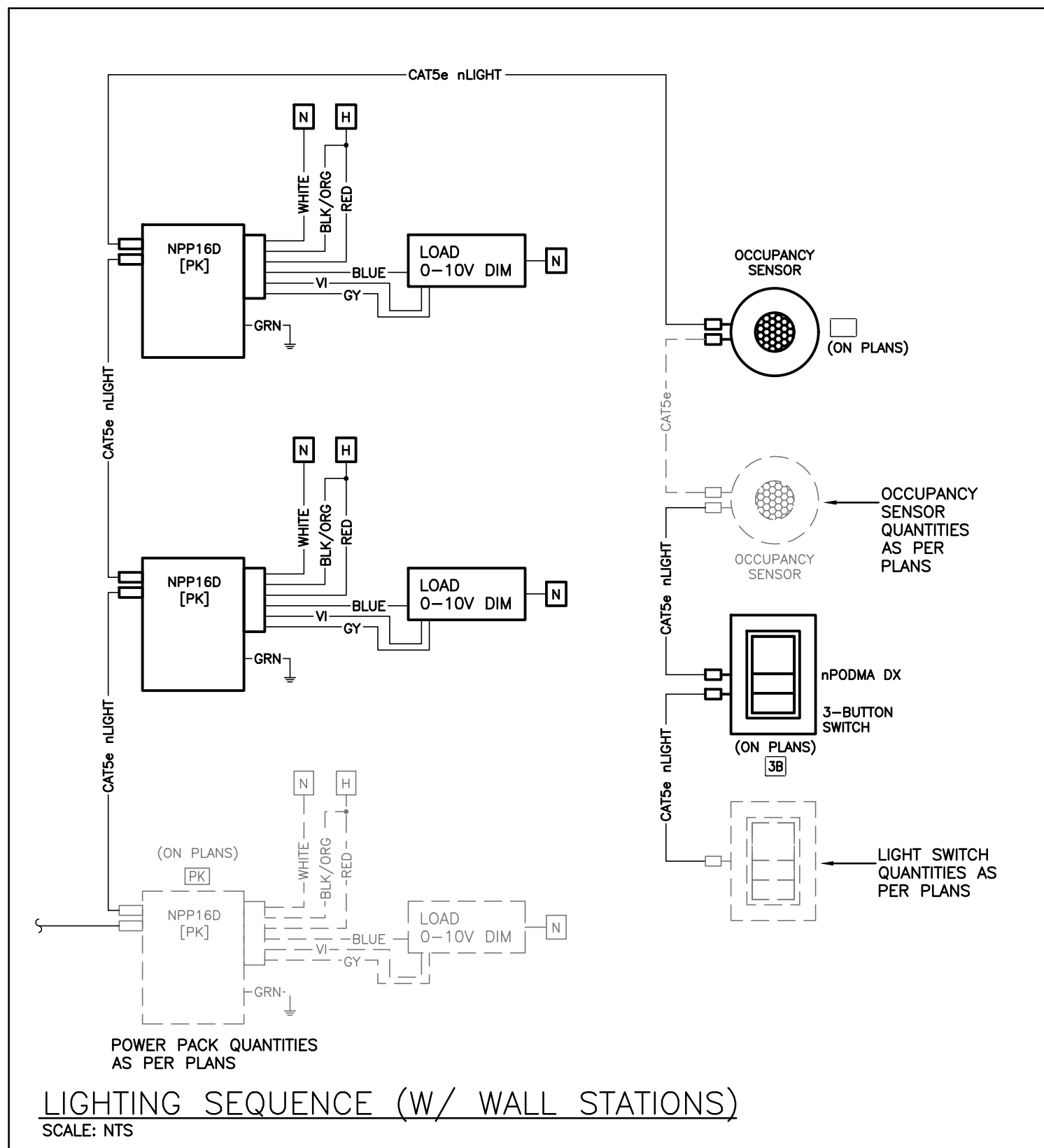
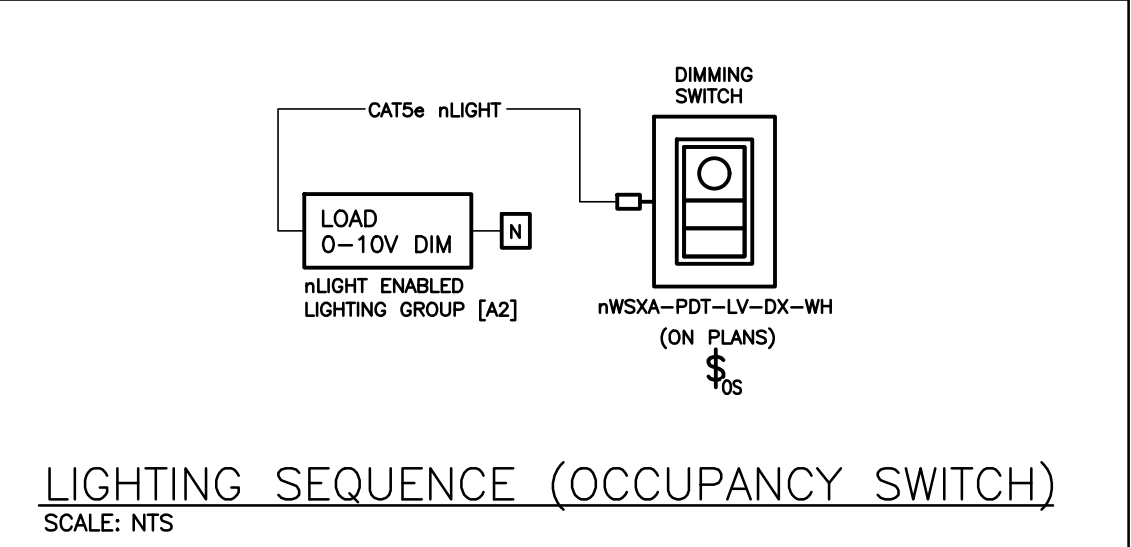
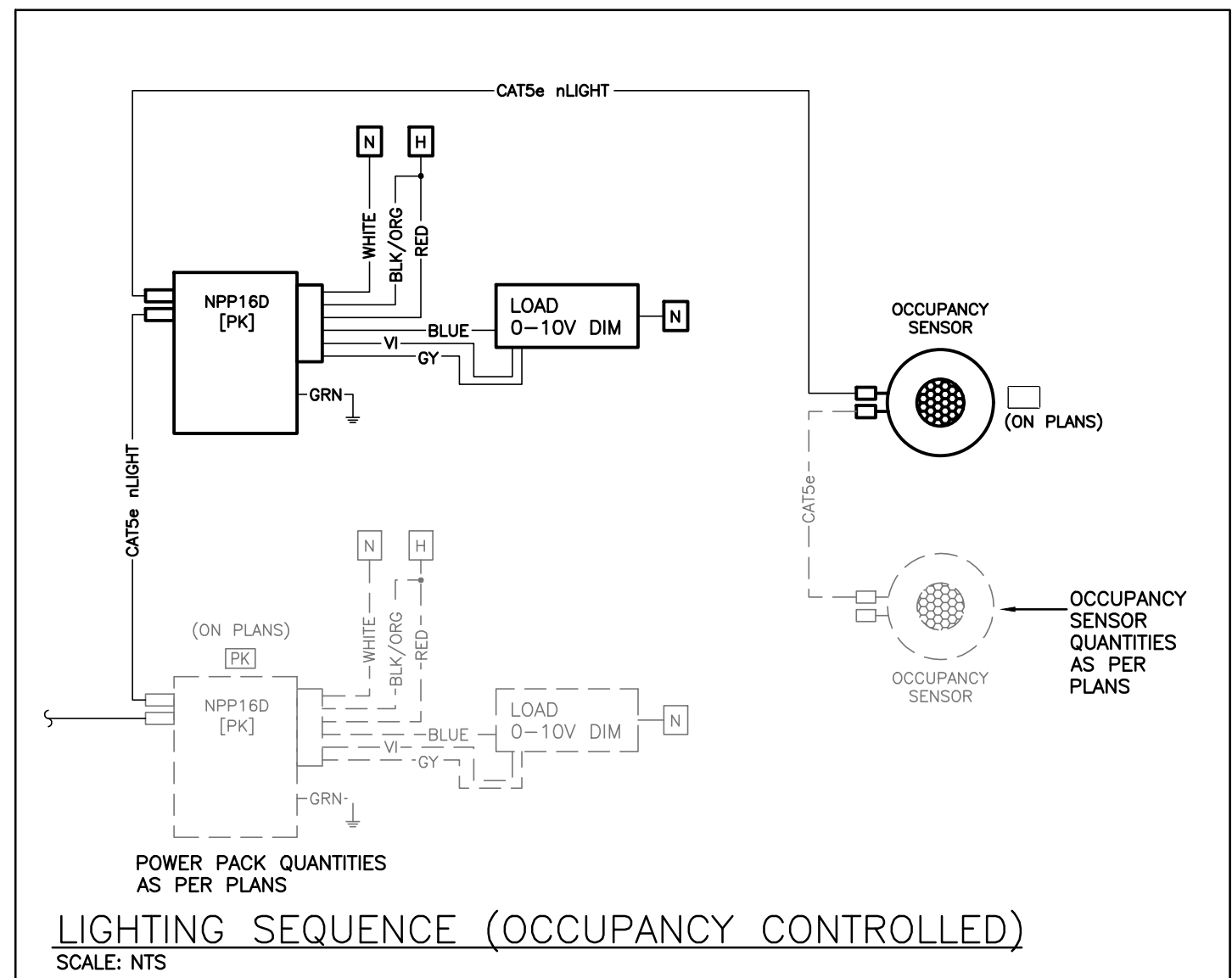
## HEATER SCHEDULE

Item	Manufacturer/Catalog Number
A	1000 WATT 208 VOLT SINGLE PHASE BASEBOARD HEATER C/W INTEGRAL THERMOSTAT AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. QUELLET CAT. #BFM100B-1TB6
B	2000 WATT 208 VOLT SINGLE PHASE HEAVY DUTY BASEBOARD HEATER C/W BUILT-IN TAMPERPROOF THERMOSTAT AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. QUELLET CAT. #P0R200B-1-AV

## LIGHT FIXTURE SCHEDULE

Item	Manufacturer/Catalog Number	Voltage	Lamp	Mounting	CRI	Listings	Description
A	COOPER CAT. #24GR-LD5-38-F125-UNV-L840-CD-1 LITHONIA CAT. #2GTL 4 40L A12125 MVOLT GZ1 LPS40 VISCOR CAT. #LRTA24-LED840K-040L-UNV-P98	120V	LED 3942 LUMENS 4000K 30.6W	RECESSED	80	DLC IC DAMP LOC.	2'X4' (610mmX1220mm) LED TROFFER C/W 0.125" (3.2mm) THICK PATTERN 12 FROSTED LENS, 10% 0-10V DIMMING DRIVER, AND WHITE FINISH.
C	COOPER CAT. #HC6100010-HM612840-61MDHWF LITHONIA CAT. #LDN6 40/20 LOGAR LSS MVOLT GZ1 TRW LIGHTOLIER CAT. #6RN-C6L0840M210U-C6RDLX	120V	LED 948 LUMENS 4000K 10W	RECESSED	80	ENERGY STAR WET LOC.	RECESSED 6" (150mm) DIAMETER LED DOWNLIGHT C/W SELF-FLANGED 60 DEGREE BEAM REFLECTOR, SEMI-SPECULAR CLEAR FINISH, AND 1% 0-10V DIMMING DRIVER. ARCHITECT TO CONFIRM FLANGE FINISH.
C1	COOPER CAT. #HC6200010-HM612840-61MDHWF LITHONIA CAT. #LDN6 40/20 LOGAR LSS MVOLT GZ1 TRW LIGHTOLIER CAT. #6RN-C6L20840M210U-C6RDLX	120V	LED 1895 LUMENS 4000K 20.9W	RECESSED	80	ENERGY STAR WET LOC.	RECESSED 6" (150mm) DIAMETER LED DOWNLIGHT C/W SELF-FLANGED 60 DEGREE BEAM REFLECTOR, SEMI-SPECULAR CLEAR FINISH, AND 1% 0-10V DIMMING DRIVER. ARCHITECT TO CONFIRM FLANGE FINISH.
EMERG. BATT.	AMLITE #EBST12 SERIES: EM-2 #EBST12200-23M4WLRWHT-ATD STANPRO CAT. #SLX12 SERIES EM-2 #SLA12200-2N4LJ/AT LUMACELL CAT. #RCS SERIES EM-2 #R012S2002LD7ATN	12V/120V	N/A	SURFACE			LONG LIFE, SEALED RECHARGEABLE BATTERY PROVIDING MINIMUM EMERGENCY WATTAGE AS NOTED BY THE CATALOGUE NUMBER C/W MICRO SIZE 12V 4W (MINIMUM) LED HEADS AND AUTOTEST FEATURE.
EMERG. LIGHTS	EM-1: AMLITE CAT. #EWBL SERIES EM-1: AMLITE CAT. #BLB SERIES (SELF-POWERED)	12V/120V	N/A	SURFACE			VANDAL RESISTANT, LONG LIFE, SEALED BATTERY, C/W 17W LED MODULE, POLYCARBONATE BODY, AND 90 MINUTE BATTERY DURATION.
EXIT LIGHTS (SELF-POWERED)	AMLITE CAT. #RPALWUMHBTATD STANPRO CAT. #RMXLX-WH-IB-AT	12V/120V	LED 2.5 WATT (MAX JC 2 WATT (MAX JC)	SURFACE			LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, MAXIMUM 2.5" (63mm) THICKNESS AND 12V INTERNAL SEALED RECHARGEABLE BATTERY PROVIDING MINIMUM 30 MINUTES OF EMERGENCY POWER, AND AUTOTEST FEATURE. FACES AND CHEVRONS TO SUIT DRAWINGS.

NOTES: ① LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT. ② IF THERE ARE ANY DISCREPANCIES BETWEEN THE FIXTURE PART NUMBER AND DESCRIPTION, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO BRING THIS TO THE ELECTRICAL CONSULTANTS ATTENTION PRIOR TO SHOP DRAWING REVIEW.



## GENERAL NOTES

- INDICATES APPROXIMATE LOCATION OF EXISTING MAIN SWITCHBOARD (FEDERAL PACIFIC FPE-CDP) TO FEED NEW PANEL 'AM' FROM EXISTING SPARE 200A-3P BREAKER. SUPPLY AND INSTALL 4#5/0 T90 CU IN 53MMC FROM SWITCHBOARD TO NEW PANEL LOCATION. PROPOSED ROUTING INDICATED FOR COSTING PURPOSES AND TO AVOID RUN THROUGH GYM. CONTRACTOR MUST HAVE ALTERNATE ROUTING APPROVED BY CONSULTANT AND SCHOOL BOARD.

## ELECTRICAL SYMBOLS

NOTE: ALL SYMBOLS MAY NOT BE USED

LIGHTING		POWER		FIRE ALARM	
	LIGHT FIXTURE (TYPE AS INDICATED)		WALL MOUNTED RECEPTACLE (15A-120V)		HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE)
	LIGHT FIXTURE (HATCHING DENOTES NIGHTLIGHT)		WALL MOUNTED T-SLOT RECEPTACLE (20A-120V)		HEAT DETECTOR (135 DEGREE FIXED TEMPERATURE)
	COMBINATION EMERGENCY/EXIT TYPE AS INDICATED (EM-X INDICATES BATTERY UNIT TYPE, DC-X INDICATES DC CIRCUIT, AND X-X INDICATES AC SOURCE CIRCUIT)		T-SLOT RECEPTACLE MTD. ABOVE COUNTER (20A-120V)		HEAT DETECTOR (194 DEGREE FIXED TEMPERATURE)
	CEILING OR WALL MOUNTED LIGHT FIXTURE TYPE AS INDICATED		RECEPTACLE MTD. ABOVE COUNTER S-SPLIT (15A-120V)		HEAT DETECTOR (195 DEGREE RATE OF RISE AND FIXED TEMPERATURE)
	POLE MOUNTED LIGHT FIXTURE		STOVE RECEPTACLE		DUCT TYPE SMOKE DETECTOR
	WALL MOUNTED EXIT LIGHT SHADING INDICATES FACE		DRYER RECEPTACLE		SMOKE DETECTOR (RL=RELAY BASE)
	CEILING MOUNTED EXIT LIGHT ARROWS DENOTE DIRECTION SHADING INDICATES FACE		SPECIAL RECEPTACLE		SMOKE ALARM C/W BATTERY BACK UP AND INTEGRAL STROBE LIGHT (CO INDICATES 3 IN 1 CARBON MONOXIDE/STROBE/SMOKE ALARM)
	SINGLE OR TWIN EMERGENCY LIGHTING FIXTURE		WALL MOUNTED DUPLEX RECEPTACLE C/W TOP HALF SWITCHED (15A-120 VOLT)		CARBON MONOXIDE DETECTOR C/W BATTERY BACK UP
	RECESSED REMOTE EMERGENCY FIXTURES		DIRECT CONNECTION		PULLSTATION
	BATTERY UNIT WITH INTEGRAL EMERGENCY FIXTURE (EM-X INDICATES BATTERY UNIT TYPE, DC-X INDICATES DC CIRCUIT, AND X-X INDICATES AC SOURCE CIRCUIT)		FLOOR BOX C/W DEVICES AS NOTED (REFER TO SPECIFICATIONS)		ALARM VALVE
	SINGLE POLE SWITCH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER, M=MOTOR RATED)		JUNCTION BOX		PRESSURE SWITCH
	OCCUPANCY SENSOR (PASSIVE)		PULLBOX		SUPERVISED VALVE
	OCCUPANCY SENSOR: OSD=DUAL TECHNOLOGY CSR=DUAL CIRCUIT/DUAL TECHNOLOGY		PANEL AS INDICATED		FLOW SWITCH
	CEILING MOUNTED MOTION SENSOR		FUSED DISCONNECT		ALARM BELL
	WALL MOUNTED MOTION SENSOR		UNFUSED DISCONNECT		CEILING FIRE SPEAKER C/W STROBE
	DIGITAL ROOM CONTROLLER		SURGE PROTECTION DEVICE. REFER TO SPECIFICATIONS.		CEILING ALARM SPEAKER
	PHOTOCCELL		DUAL VOLTAGE RELAY		WALL ALARM SPEAKER/STROBE
	DIGITAL WALL DIMMER STATION		TIME CLOCK		ALARM HORN
	LIGHTING NETWORK BRIDGE		0-15 MINUTE INTERVAL TIMER		ALARM STROBE
	EMERGENCY LIGHTING RELAY		SPEED CONTROLLER		COMBINATION HORN/STROBE
	LIGHTING INPUT/OUTPUT RELAY		MANUAL STARTER		END-OF-LINE RESISTOR
	ANALOG POWER PACK		MAGNETIC STARTER		DOOR HOLD OPEN DEVICE
COMMUNICATIONS			COMBINATION MAGNETIC STARTER		FIRE SMOKE DAMPER
	SINGLE WALL MOUNTED TELEPHONE OUTLET C/W 1/2" (13mm) C TO CABLE MANAGEMENT SYSTEM.		DESTRATIFICATION FAN		FIREFIGHTER'S HANDSET
	SINGLE COMPUTER OUTLET C/W 3/4" (21mm) C TO CABLE MANAGEMENT SYSTEM.		SURFACE RACEWAY C/W DEVICES AS NOTED (REFER TO SPECIFICATIONS)	SAFE WELCOME DEVICES	
	COMBINATION SINGLE VOICE/ SINGLE COMPUTER OUTLET UNLESS OTHERWISE NOTED C/W 1" (27mm) C TO CABLE MANAGEMENT SYSTEM. # INDICATES THE QUANTITY OF ACTIVE PARTS. LEFT VALUE ALWAYS INDICATES VOICE.		HAND DRYER		MONITOR
	WIRELESS ACCESS POINT. PROVIDE 1/2" (21mm) C TO CABLE MANAGEMENT SYSTEM		PUSH-BUTTON STATION (QUANTITY OF BUTTONS AS PER PLANS)		POWER SUPPLY
	CLOCK AS PER SPECIFICATIONS		CONTRACTOR		CALL SWITCH STATION
	TELEVISION OUTLET C/W 1/2" (27mm) C TO CABLE MANAGEMENT SYSTEM.		MOTOR CONNECTION	ACCESS CONTROL	
	HANGER SYSTEM (REFER TO DETAILS)		POWER POLE		MAG LOCK
	ADMINISTRATIVE CONTROL CONSOLE		THERMOSTAT (RA=REVERSE ACTING)		ELECTRIC STRIKE. CONFIRM ROUGH-IN WITH DOOR HARDWARE.
	HANDSET (ND = NON-DIAL STYLE)		SOLENOID VALVE		"PUSH-TO-LOCK" BUTTON
	P.A. CALL SWITCH		CURRENT SENSOR		EMERGENCY PUSH BUTTON STATION
	WALL MOUNTED SPEAKER (CS=COLUMN SPEAKER)		TRANSFORMER		"ASSISTANCE REQUIRED" DOME LIGHT WITH SOUNDER
	CEILING MOUNTED SPEAKER	SECURITY			"ASSISTANCE REQUIRED" INDICATOR LIGHT WITH SOUNDER
	PROGRAM BELL		SECURITY DETECTOR (SURFACE MOUNTED)	CARD/FOB READER ROUGH-IN AS A SINGLE GANG BOX AT 1100mm AFF C/W 13mmC TO ELECTRIC STRIKE IN ADJACENT DOOR FRAME. CONFIRM ROUGH-IN WITH DOOR HARDWARE.	
	HORN SPEAKER		SECURITY SIREN (INSTALL 2400mm AFF) C/W 19mmC TO NEAREST SECURITY JUNCTION BOX		
	MICROPHONE OUTLET		SECURITY KEYPAD (INSTALL 1100mm AFF) C/W 19mmC TO NEAREST SECURITY JUNCTION BOX	GENERAL	
	DOOR BELL		DOOR CONTACT C/W 19mmC TO NEAREST SECURITY JUNCTION BOX (REFER TO DETAIL)	ER	INDICATED EXISTING ITEM TO REMAIN
	AUXILIARY ROUGH-IN FOR USE AS NOTED.		LOW TEMPERATURE SENSOR. ROUGH-IN AS A SINGLE GANG BOX MOUNTED HORIZONTALLY AT 150mm BELOW FINISHED CEILING LEVEL.	D	INDICATES EXISTING ITEM TO BE DELETED
	ELECTRIC HEAT		SECURITY JUNCTION BOX 150mm (6") SQUARE C/W COVER	R	INDICATES EXISTING ITEM TO BE RELOCATED/IN RELOCATED POSITION
	FAN FORCED ELECTRIC HEATER (TYPE AS INDICATED)		CEILING MOUNTED CAMERA	WG	WIREGUARD
	UNIT HEATER (TYPE AS INDICATED)		CAMERA POWER SUPPLY	GF	GROUND FAULT
STANDARD CIRCUIT LABELING			ZONE EXPANSION PANEL. REFER TO INSTALLATION DETAIL.	WP	WEATHERPROOF
POWER PANEL LABEL CIRCUIT INDICATION SWITCH LEG (IF APPLICABLE)			MAIN SECURITY CONTROL PANEL	IG	ISOLATED GROUND
			HOLD-UP/PANIC PUSHBUTTON C/W 13mmC TO NEAREST SECURITY JUNCTION BOX.	SR	SURGE PROTECTED
			CEILING MOUNTED	TR	TAMPER RESISTANT
			NOTE INDICATOR	CLG	CEILING MOUNTED
			MECHANICAL ITEM NO.	X	NOTE INDICATOR
			OWNERS EQUIPMENT ITEM NO.	A	OWNERS EQUIPMENT ITEM NO.





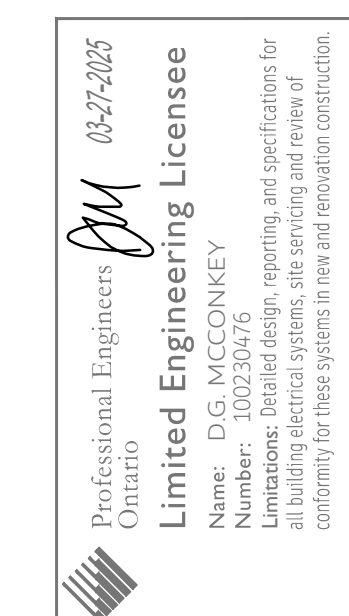
The Contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

The drawings show general arrangement of steel. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencing work.

The drawings do not indicate all offsets, fitting and accessories which may be required. Provide the same to meet the requirements.

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NO.	DESCRIPTION	DATE
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HILLSIDE PUBLIC  
SCHOOL MAIN OFFICE  
& CLASSROOM  
RENOVATION

11 CHOPIN DRIVE  
KITCHENER, ON



GROUND FLOOR  
DEMOLITION AND  
RENOVATION -  
LIGHTING

**HOSSACK  
& ASSOCIATES  
ARCHITECTS**



4-2150 DUNWYN DRIVE  
MISSISSAUGA, ONTARIO L5L 5M8  
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- "ER" DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- "R" INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- "D" INDICATES EXISTING ITEM TO BE DELETED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

D1 INDICATES LIGHT FIXTURES AND CONTROLS TO BE REMOVED, EXISTING LIGHTING CIRCUIT TO REMAIN FOR CONNECTION TO NEW FIXTURES AND CONTROLS PER RENOVATION.

D2 INDICATED SWITCH(S) ARE TO BE REMOVED COMPLETE. PULL WIRING TO ACCESSIBLE CEILING SPACE FOR RE-CONNECTION TO NEW CONTROLS. REFER TO RENOVATION PLAN FOR CONTINUATION. EXISTING BACKBOX IS TO REMAIN FOR RE-CONNECTION TO NEW DEVICE(S) AS INDICATED RENOVATION PLANS.

D3 CONTRACTOR IS TO REMOVE AND RE-INSTALL ALL DEVICES AND CONDUIT WITHIN INDICATED CORRIDOR AS REQUIRED FOR RENOVATIONS.

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

R1 CONNECT NEW LIGHTING FIXTURES IN THIS AREA TO EXISTING LIGHTING BRANCH CIRCUIT AND NEW CONTROLS AS NOTED. EXTEND CIRCUITS AS REQUIRED.

R2 INDICATES EMERGENCY FIXTURE TO BE CONNECTED TO UNSWITCHED SIDE OF LOCAL LIGHTING CIRCUIT. PROVIDE ADEQUATE SUPPORT FOR ALL CEILING MOUNTED FIXTURES.

R3 NEW CONTROL DEVICES ARE TO RE-USE EXISTING BACKBOXES. CONTRACTOR IS TO SUPPLY NEW COVERPLATE TO SUIT THE NEW INSTALLATION.





#### NOTES RE CIRCUIT LABELS

PROVIDE P-TOUCH LABELS, INDICATES PANEL AND CIRCUIT LABEL ON ALL LIGHT SWITCHES, LIGHTING CONTROL STATIONS, AND RECEPTACLE DEVICE FACEPLATES. INCLUDE SWITCH LEG INDICATION FOR LIGHTING CONTROLS AND SWITCHES. REFER TO SPECIFICATION AND DETAILS.

ALL RECEPTACLES ARE TO BE TAMPER RESISTANT TYPE PER OESC

#### GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT, UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DELETED, UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

#### SPECIFIC DEMOLITION NOTES

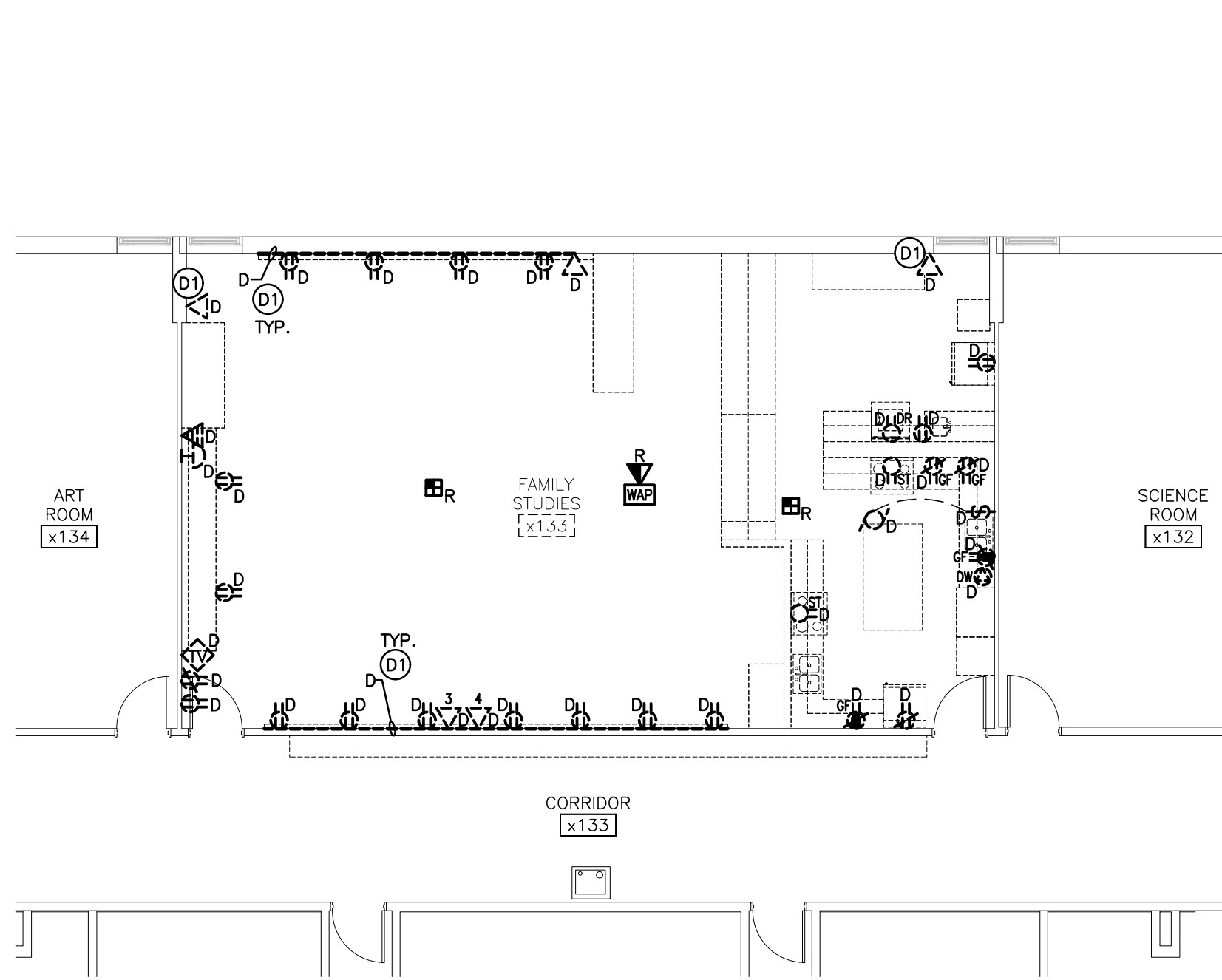
D1 EXISTING DEVICE AND WIREMOLD IS TO BE DISCONNECTED AND REMOVED COMPLETE.

#### GENERAL RENOVATION NOTES

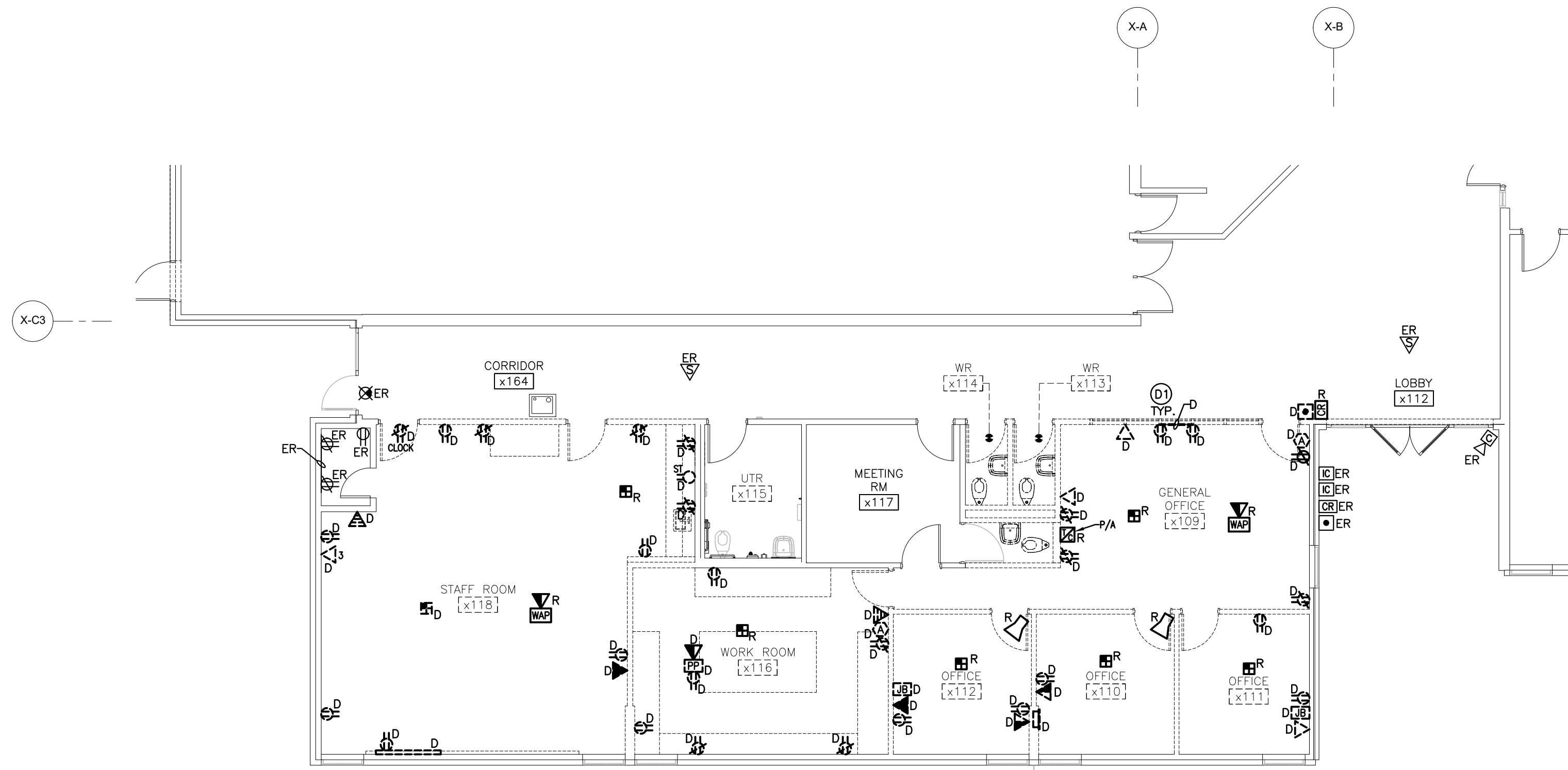
- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES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

#### SPECIFIC RENOVATION NOTES

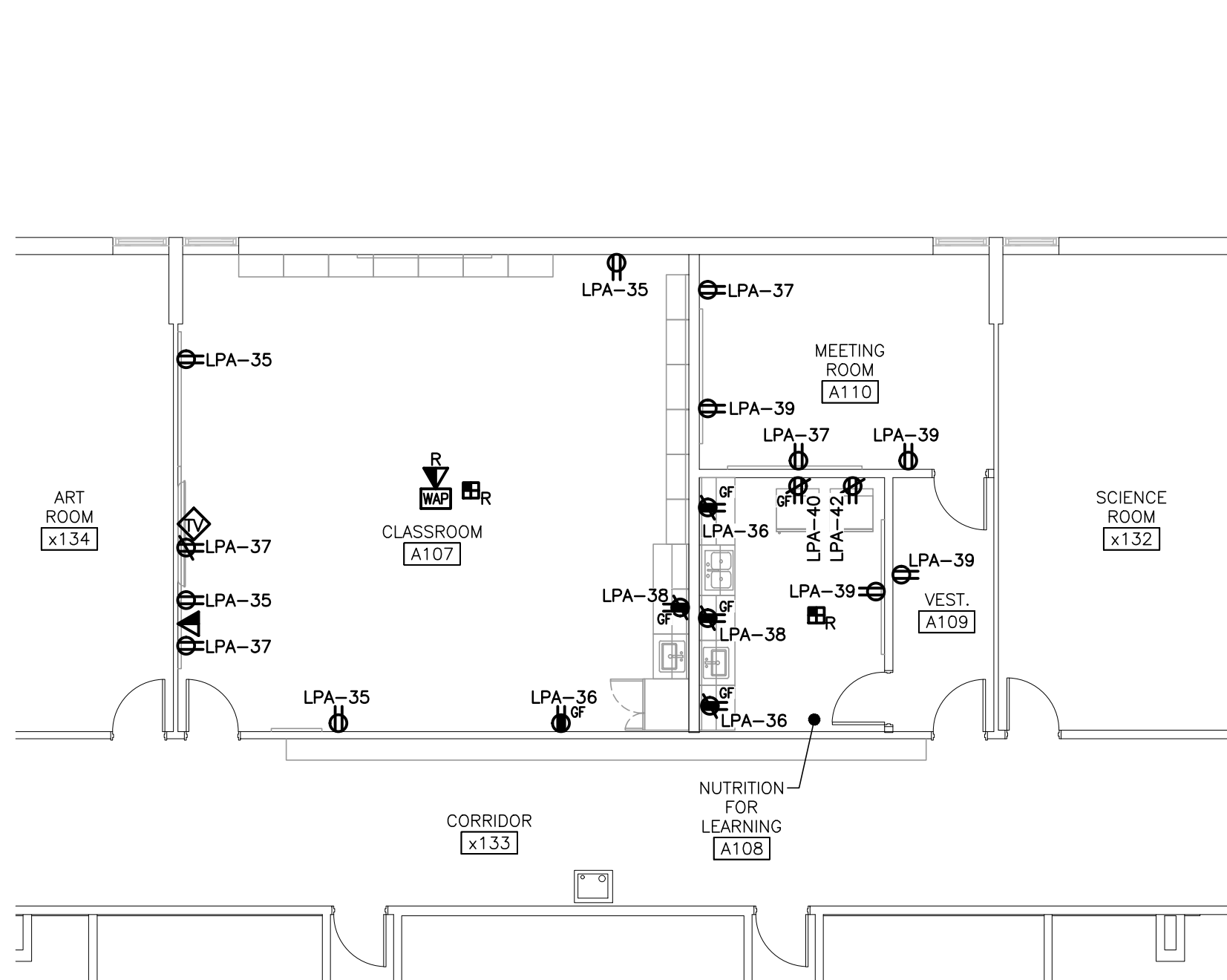
- R1 INDICATES 120V FEED TO 24VDC STEP DOWN TRANSFORMER MOUNTED ABOVE CEILING OR AT A HIGH LEVEL FOR AUTOMATIC PLUMBING FIXTURE(S). COORDINATE WITH MECHANICAL TRADE.
- R2 INDICATES DEVICES TO BE MOUNTED WITHIN MILLWORK. ELECTRICAL CONTRACTOR TO PROVIDE FEED UNDER FLOOR AND INTO MILLWORK. COORDINATE FEED INSTALLATION WITH MILLWORK SHOP DRAWINGS.
- R3 INDICATES NEW FIRE ALARM STROBE TO BE CONNECTED TO NEW STROBE CIRCUIT.
- R4 INDICATES NEW FIRE ALARM BELL DEVICE TO BE CONNECTED TO EXISTING BELL CIRCUIT.



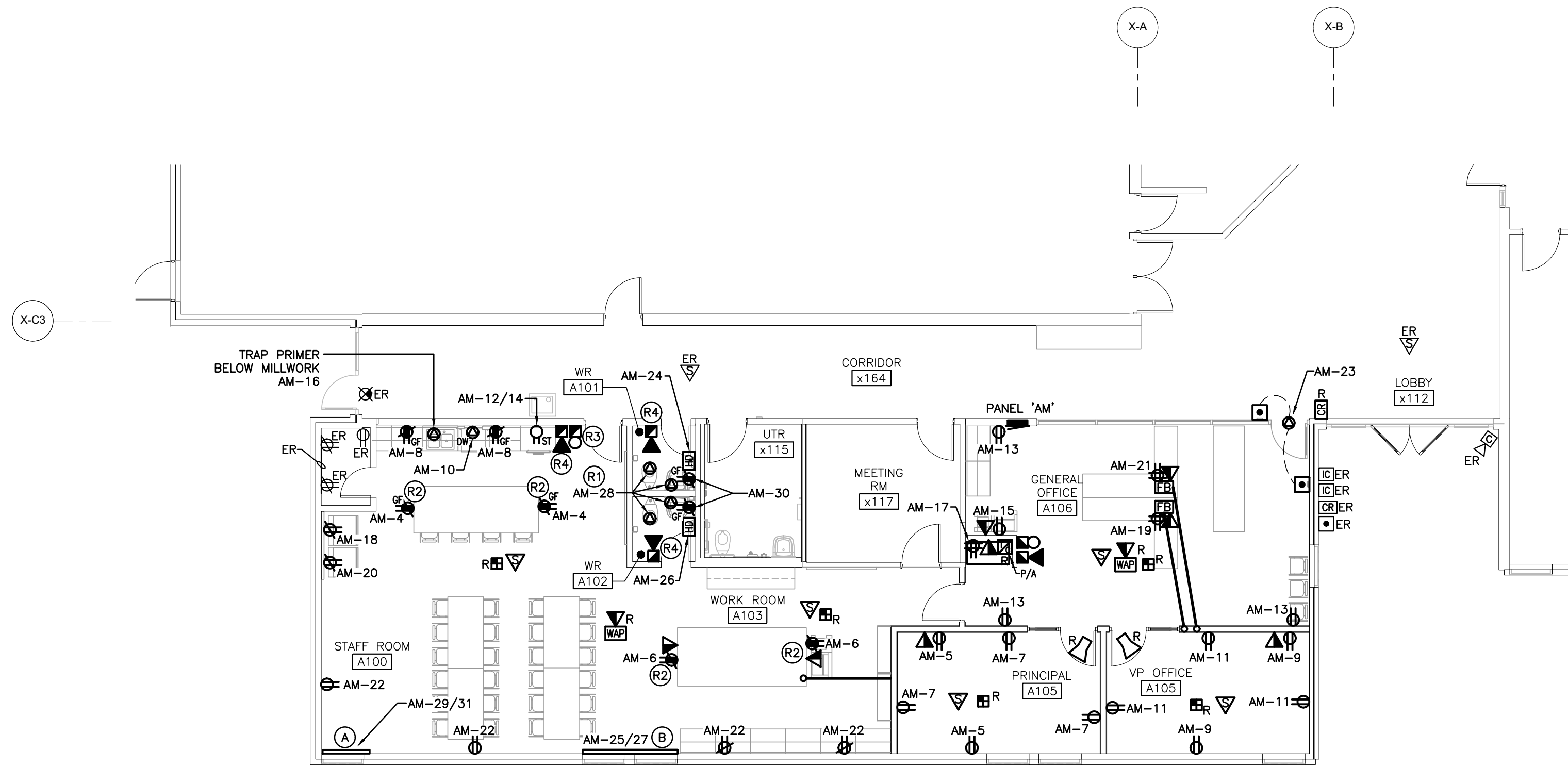
GROUND FLOOR PART PLAN B - POWER AND SYSTEMS DEMOLITION  
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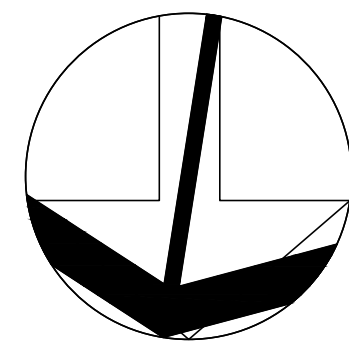
GROUND FLOOR PART PLAN A - POWER AND SYSTEMS DEMOLITION  
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GROUND FLOOR PART PLAN B - POWER AND SYSTEMS RENOVATION  
SCALE: 1:100



GROUND FLOOR PART PLAN A - POWER AND SYSTEMS RENOVATION  
SCALE: 1:100



**DEI**  
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Project Number: 24143

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**HILLSIDE PUBLIC SCHOOL MAIN OFFICE & CLASSROOM RENOVATION**

11 CHOPIN DRIVE, KITCHENER, ON



**GROUND FLOOR DEMOLITION AND RENOVATION - POWER AND SYSTEMS**

**HOSSACK & ASSOCIATES ARCHITECTS**

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