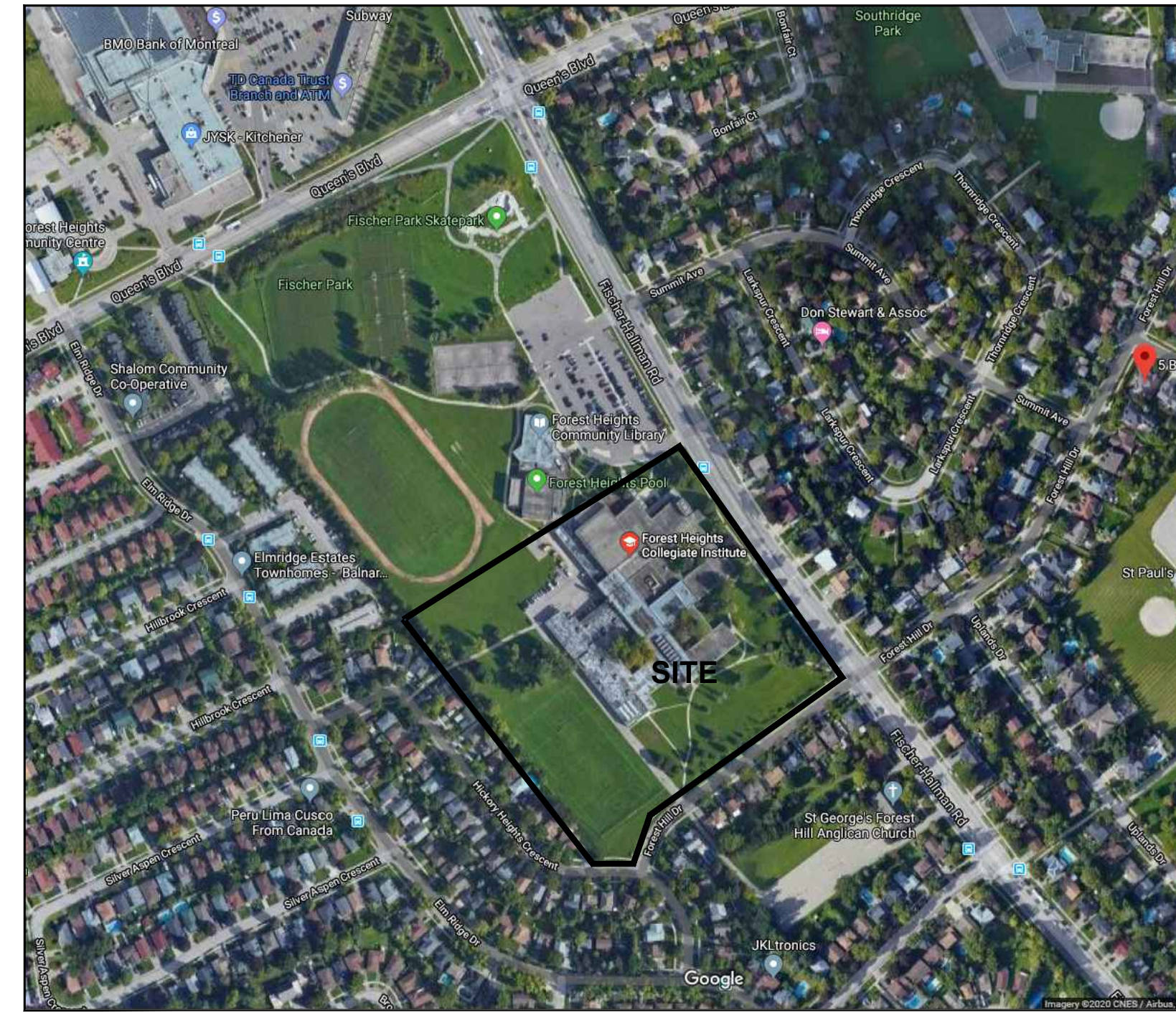


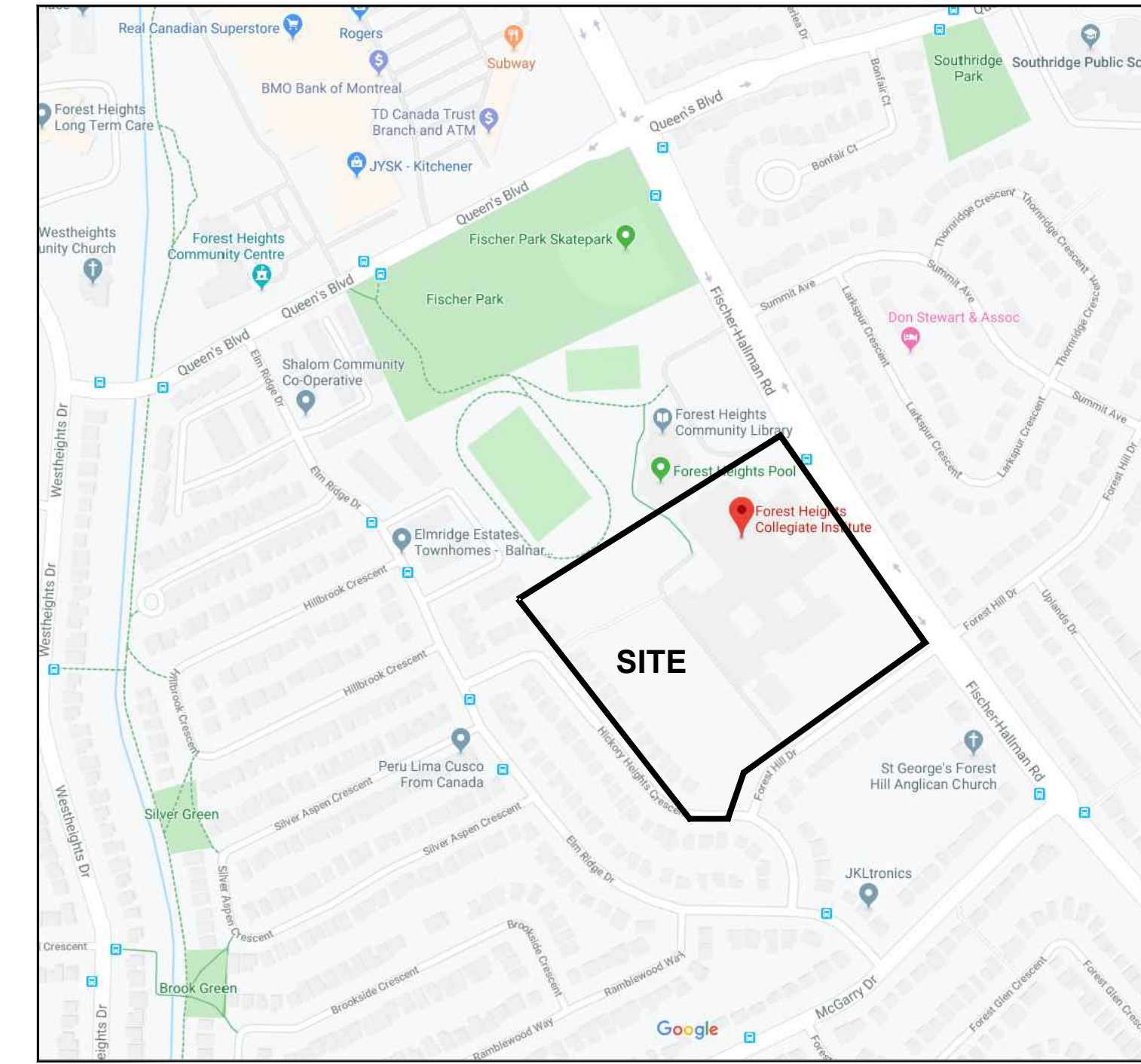


WATERLOO REGION DISTRICT SCHOOL BOARD

**FOREST HEIGHTS COLLEGIATE INSTITUTE
FAMILY STUDIES RENOVATION, PARTIAL WINDOW,
BRICK, ASPHALT REPLACEMENT & BF WASHROOM**
TENDER #7274-RW-22
255 Fischer-Hallman Rd,
Kitchener, ON N2M 4X8



SATELLITE VIEW



KEY PLAN

ONTARIO BUILDING CODE DATA MATRIX

Firm Name: Kingsland + Architects Inc.		Certificate of Practice Number: 4549	
Firm Address and Contact Information: Colin J. Kingsland, Partner, B.E.S., B.Arch., O.A.A., LEED AP, 219 Dufferin Street, Suite 308b, Toronto, Ontario M6K 3J1		The architect noted above has exercised responsible control with respect to design activities. The architect's seal number is the architect's BCDN.	
Name and Address of Project: FOREST HEIGHTS C.I. FAMILY STUDIES RENO, PARTIAL WINDOW, BRICK, ASPHALT REPLACEMENT & BF WR		The architect noted above has exercised responsible control with respect to design activities. The architect's seal number is the architect's BCDN.	
Ontario Building Code Data Matrix - Parts 3 & 9		OBC Reference	
Project Description: <input type="checkbox"/> New <input type="checkbox"/> Addition <input checked="" type="checkbox"/> Alteration	<input type="checkbox"/> Part 11 <input checked="" type="checkbox"/> Part 3 <input type="checkbox"/> Part 9		
Major Occupancy(s): Group 'A' - Division 2	3.1.2.1.(1)		
Building Area (m ²): Existing: 15,893.00 New: - Total: 15,893.00	1.4.1.2. [A]		
Gross Area (m ²): Existing: 32,942.50 New: - Total: 32,942.50	1.4.1.2 [A]		
Number of Storeys: Above Grade: 2 Below Grade: 1	1.4.1.2. [A] & 3.2.1.1.		
Number of Streets/Fire Fighter Access: EXISTING	3.2.2.10 & 3.2.5		
Building Classification: ASSEMBLY OCCUPANCY, GROUP A DIVISION 2	3.2.2.49.		
Sprinkler System Proposed: <input type="checkbox"/> entire building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof rating <input type="checkbox"/> not required	3.2.2.20-83 3.2.1.5 3.2.2.17. INDEX		
Standpipe required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.9.1		
Fire Alarm required: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.2.4.1		
Water Service/Supply is adequate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.2.5.7		
High Building: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.6.1		
Construction Restrictions: <input type="checkbox"/> Comb. Permitted <input checked="" type="checkbox"/> Non-comb. required <input type="checkbox"/> Both	3.2.2.20-83 EXISTING		
Actual Construction: <input type="checkbox"/> Combustible <input checked="" type="checkbox"/> Non-combustible <input type="checkbox"/> Both	3.2.1.1.(3)-(8)		
Mezzanine(s) Area (m ²): N/A	3.1.17.		
Occupant Load based: <input type="checkbox"/> m ² /person <input checked="" type="checkbox"/> design of building	3.1.17.		
Existing Building: Load EXISTING persons			
Barrier-free Design: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.8		
Hazardous Substances: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.3.1.2 & 3.3.1.19.		
Required Fire Resistance Rating (FRR)	3.2.2.20-83 EXISTING		
Horizontal Assemblies (FRR (Hours))			
Floors: 1 Hours			
Roof: 45 Mins			
Mezzanine: n/a Mm			
Supporting Members (FRR (Hours))			
Floors: 1 Hours			
Roof: 45 Mins			
Mezzanine: n/a Mm			
Spatial Separation - Construction of Exterior Walls	3.2.3.1		
Wall Area of EBF (ft ²)		Comb. Const.	Non-comb. Const.
North - - - EXISTING			
South - - - EXISTING			
East - - - EXISTING			
West - - - EXISTING			

Ontario Building Code Data Matrix - Parts 11 - Renovation of Existing Building	OBC Reference
11.1 Project Description: Describe Existing Use: SCHOOL - A2 Construction Index: _____ Hazard Index: _____ <input type="checkbox"/> Not Applicable (no change of major occupancy)	11.2.1
11.2 Alteration to Existing Building is: Basic Renovation <input checked="" type="checkbox"/> Extensive Renovation <input type="checkbox"/>	11.3.3.1
11.3 Reduction in Performance Level: Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes 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: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage-system: <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 (explain) Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) Change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) Plumbing: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (explain) Plumbing fixtures replaced in Family Studies Classroom Sewage System: <input checked="" type="checkbox"/> No <input type="checkbox"/> 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: <input checked="" type="checkbox"/> No <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

SYMBOL LEGEND

	EXISTING WALL
	EX. WALL TO BE REMOVED
	NEW WALL
	FIRE SEPARATION
	WALL TYPE - SEE SPECIFICATION
	DOOR NUMBER EXISTING DOOR
	DOOR NUMBER NEW DOOR
	BUILDING SECTION NUMBER SHEET NUMBER
	WALL SECTION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER
	DETAIL DRAWING NUMBER SEE SPECIFICATION
	WINDOW TYPE
	SCREEN TYPE
	ROOM NAME ROOM NUMBER
	CEILING MATERIAL CEILING HEIGHT
FOR DOOR SCHEDULE AND ROOM FINISH SCHEDULE SEE SPECIFICATION.	

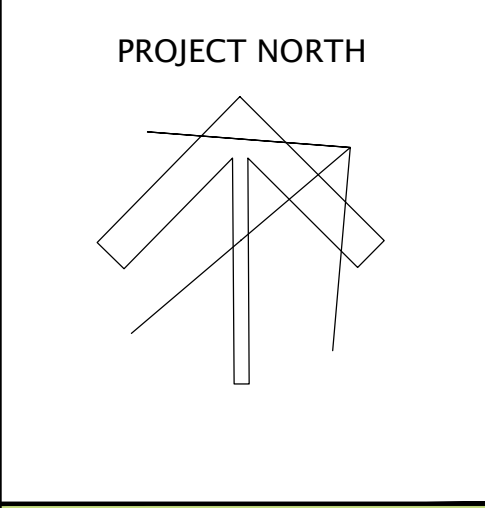
LIST OF DRAWINGS

ARCHITECTURAL	
A0-0	COVER & OBC MATRIX
A1-0	OVERALL SITE PLAN
A1-2	PARTIAL SITE PLAN - PROPOSED PARKING AND DEMOLITION PLANS
A2-0	OVERALL FIRST AND SECOND FLOOR PLANS
A2-1	PARTIAL FIRST FLOOR PLAN FAMILY STUDIES DEMOLITION & PROPOSED
A2-2	PARTIAL FIRST FLOOR PLAN TECH DESIGN/CE DEMOLITION & PROPOSED
A2-3	PARTIAL SECOND FLOOR PLAN & ELEVATION - COLUMN REPAIR
A2-4	PARTIAL FIRST FLOOR PLAN WINDOW REPLACEMENT
A3-1	EXTERIOR ELEVATIONS
A3-2	WALL SECTIONS
A3-3	WALL SECTIONS
A4-1	INTERIOR ELEVATIONS
A6-1	PARTIAL FIRST FLOOR REFLECTED CEILING PLANS
A9-1	PARTIAL FIRST FLOOR FINISHES PLANS
STRUCTURAL	
S0.0	KEY PLAN, GENERAL NOTES & DETAILS
S1.0	PARTIAL ROOF FRAMING PLAN & SECTIONS
MECHANICAL	
M1.1	MECHANICAL LEGEND & DETAILS
M1.2	MECHANICAL SCHEDULES
M2.1	PARTIAL MECHANICAL PLANS
M2.2	PARTIAL MECHANICAL PLANS
ELECTRICAL	
E1.1	ELECTRICAL KEY PLANS & LEGEND
E2.1	PARTIAL EXISTING ELECTRICAL PLAN
E2.2	PARTIAL EXISTING ELECTRICAL PLAN
E3.1	PARTIAL REVISED ELECTRICAL PLAN
E3.2	PARTIAL REVISED ELECTRICAL PLAN
E4.1	POWER DISTRIBUTION SCHEDULES
E4.2	DETAILS, SCHEDULES & SCHEMATICS

1	22/02/21	RE-ISSUED FOR TENDER	REVISION
0	27/05/21	ISSUED FOR PERMIT AND TENDER	NO DATE

DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

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 6. ALL DIMENSIONS GIVEN ARE IN METRIC.



KINGSLAND + ARCHITECTS INC.
219 Dufferin Street, Suite 308b
Toronto, Ontario M6K 3J1
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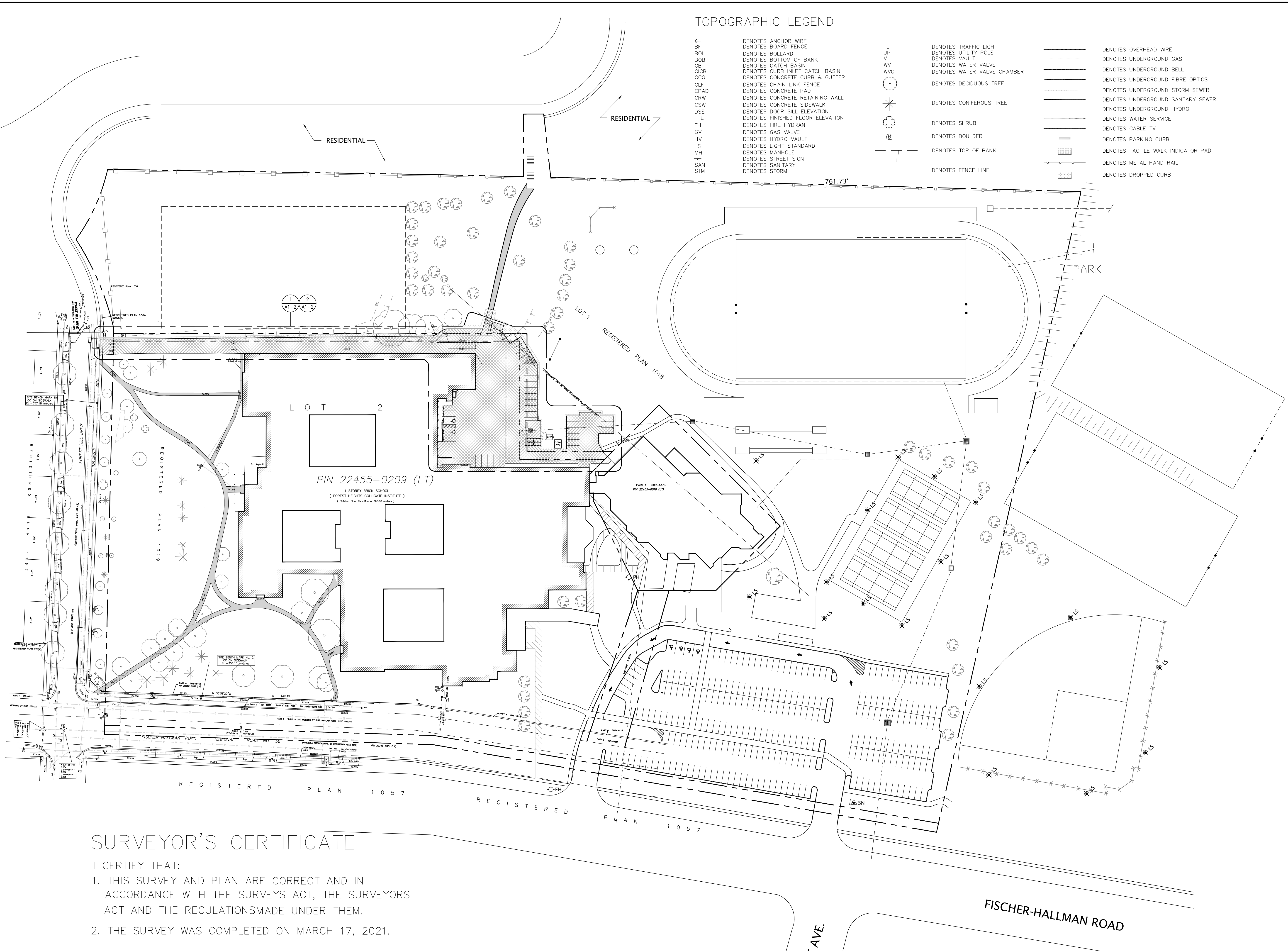


FOREST HEIGHTS C.I.
FAMILY STUDIES RENOVATION,
PARTIAL WINDOW, BRICK, ASPHALT
REPLACEMENT & BF WASHROOM
255 Fischer-Hallman Rd,
Kitchener, ON N2M 4X8

DRAWING TITLE: COVER & OBC MATRIX	
PROJECT NO: A20017	SCALE: AS NOTED
DRAWN: D.T./C.C.	DRAWING NO. REV. A0-0 1
CHECKED: B.F.	DATE: FEB/21

TOPOGRAPHIC LEGEND

←	DENOTES ANCHOR WIRE	TL	DENOTES TRAFFIC LIGHT	—	DENOTES OVERHEAD WIRE
BF	DENOTES BOARD FENCE	UP	DENOTES UTILITY POLE	—	DENOTES UNDERGROUND GAS
BOL	DENOTES BOLLARD	V	DENOTES VAULT	—	DENOTES UNDERGROUND BELL
BOB	DENOTES BOTTOM OF BANK	WV	DENOTES WATER VALVE	—	DENOTES UNDERGROUND FIBRE OPTICS
CB	DENOTES CATCH BASIN	WVC	DENOTES WATER VALVE CHAMBER	—	DENOTES UNDERGROUND STORM SEWER
CIG	DENOTES CURB INLET CATCH BASIN	⊙	DENOTES DECIDUOUS TREE	—	DENOTES UNDERGROUND SANITARY SEWER
CLF	DENOTES CONCRETE CURB & GUTTER	⊛	DENOTES CONIFEROUS TREE	—	DENOTES UNDERGROUND HYDRO
CPAD	DENOTES CHAIN LINK FENCE	⊕	DENOTES SHRUB	—	DENOTES WATER SERVICE
CRW	DENOTES CONCRETE PAD	⊗	DENOTES BOULDER	—	DENOTES CABLE TV
CSW	DENOTES CONCRETE RETAINING WALL	⊖	DENOTES TOP OF BANK	—	DENOTES PARKING CURB
DSE	DENOTES CONCRETE SIDEWALK	—	DENOTES FENCE LINE	—	DENOTES TACTILE WALK INDICATOR PAD
FFE	DENOTES DOOR SILL ELEVATION				DENOTES METAL HAND RAIL
FH	DENOTES FINISHED FLOOR ELEVATION				DENOTES DROPPED CURB
GV	DENOTES FIRE HYDRANT				
HV	DENOTES GAS VALVE				
LS	DENOTES HYDRO VAULT				
MH	DENOTES LIGHT STANDARD				
SN	DENOTES MANHOLE				
STM	DENOTES STREET SIGN				
	DENOTES SANITARY				
	DENOTES STORM				



SURVEYOR'S CERTIFICATE

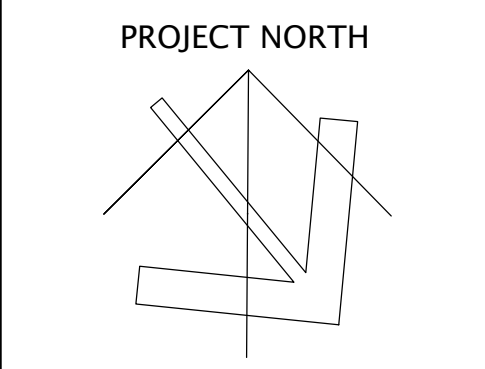
I CERTIFY THAT:
 1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
 2. THE SURVEY WAS COMPLETED ON MARCH 17, 2021.

1 OVERALL SITE PLAN
 A1-0 SCALE - 1:750

NO.	DATE	REVISION
1	22/02/21	RE-ASSIGNED FOR TENDER
0	27/02/21	FOR MEETING WITH WRDSB

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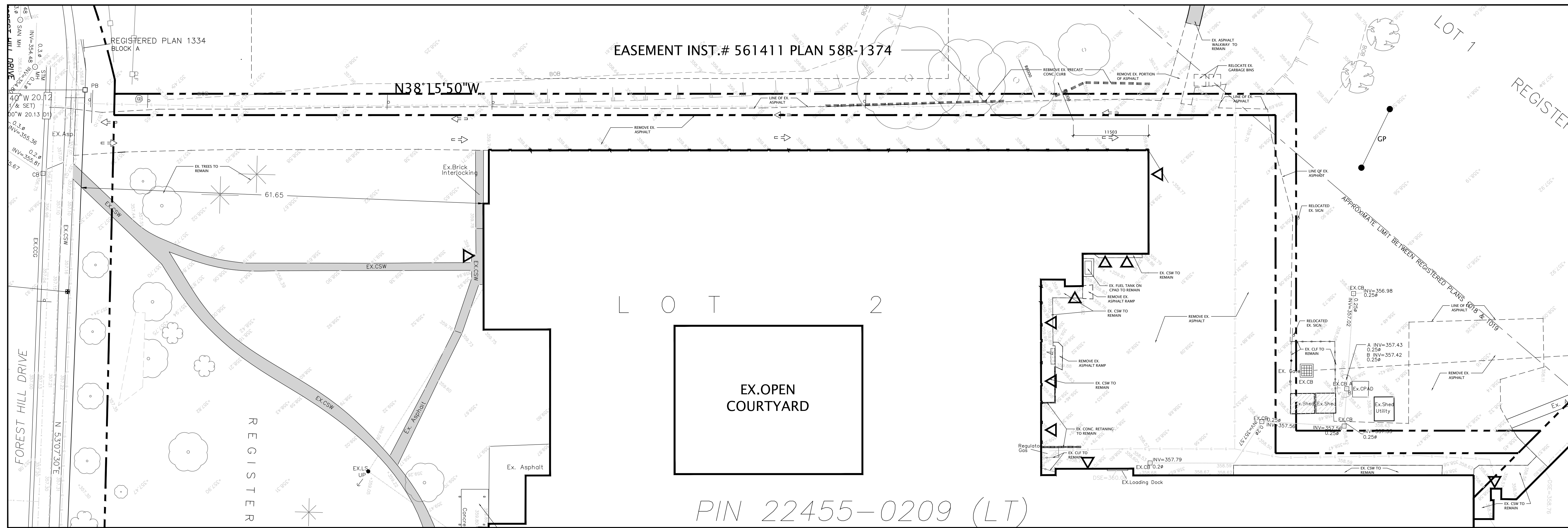
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 219 Dufferin Street, Suite 300B
 Toronto, Ontario, M6K 3J1
 ph 416.203.7799
 fax 416.203.7763



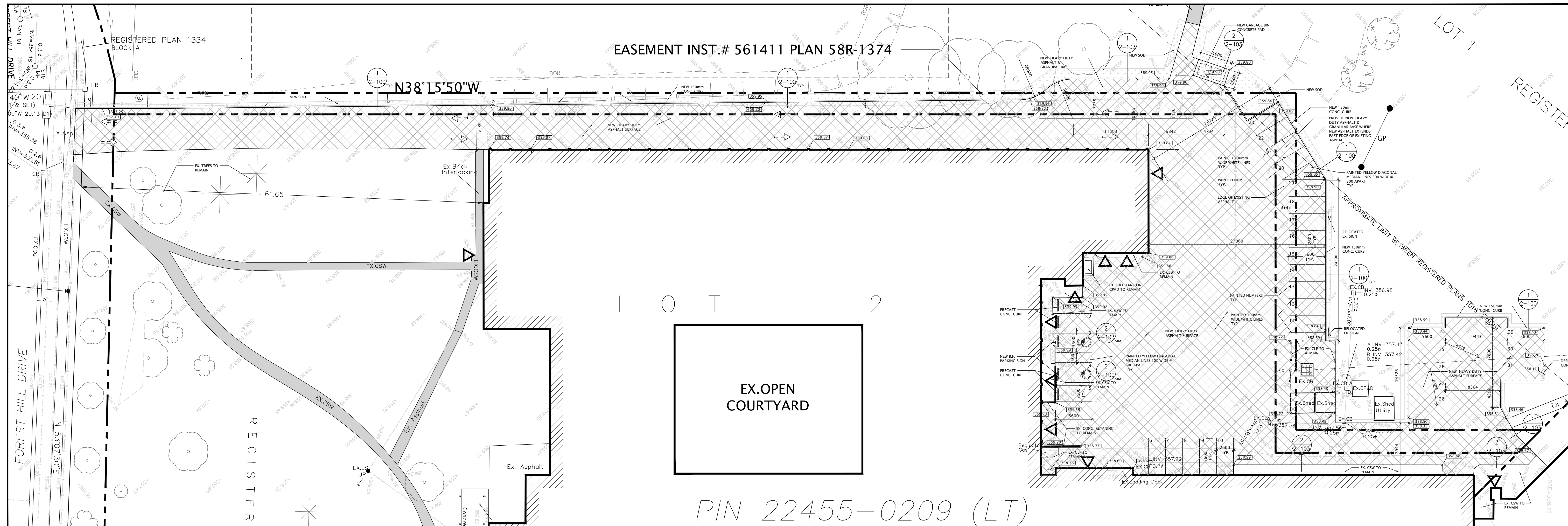
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 FAMILY STUDIES RENOVATION,
 PARTIAL WINDOW, BRICK, ASPHALT
 REPLACEMENT & BF WASHROOM
 255 Fischer-Hallman Rd.
 Kitchener, ON N2M 4R8

DRAWING TITLE:
 OVERALL SITE PLAN

PROJECT NO: A20017	SCALE: 1:750
DRAWN: D.T.	DRAWING NO. REV. A1-0 1
CHECKED: B.F.	DATE: FEB/21



1 SITE PLAN - PARKING DEMOLITION
SCALE - 1:300



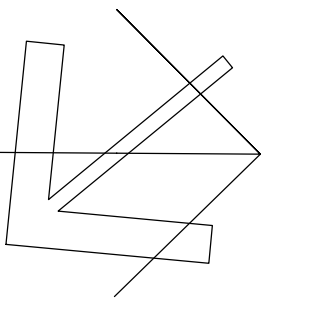
2 SITE PLAN - PARKING PROPOSED
SCALE - 1:300

NO.	DATE	REVISION
1	21/09/21	ISSUED FOR PERMIT AND TENDER
2	22/02/23	RE-ISSUED FOR TENDER
0	21/02/24	FOR MEETING WITH WRDSB

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PROJECT NORTH



Kingsland + ARCHITECTS INC.

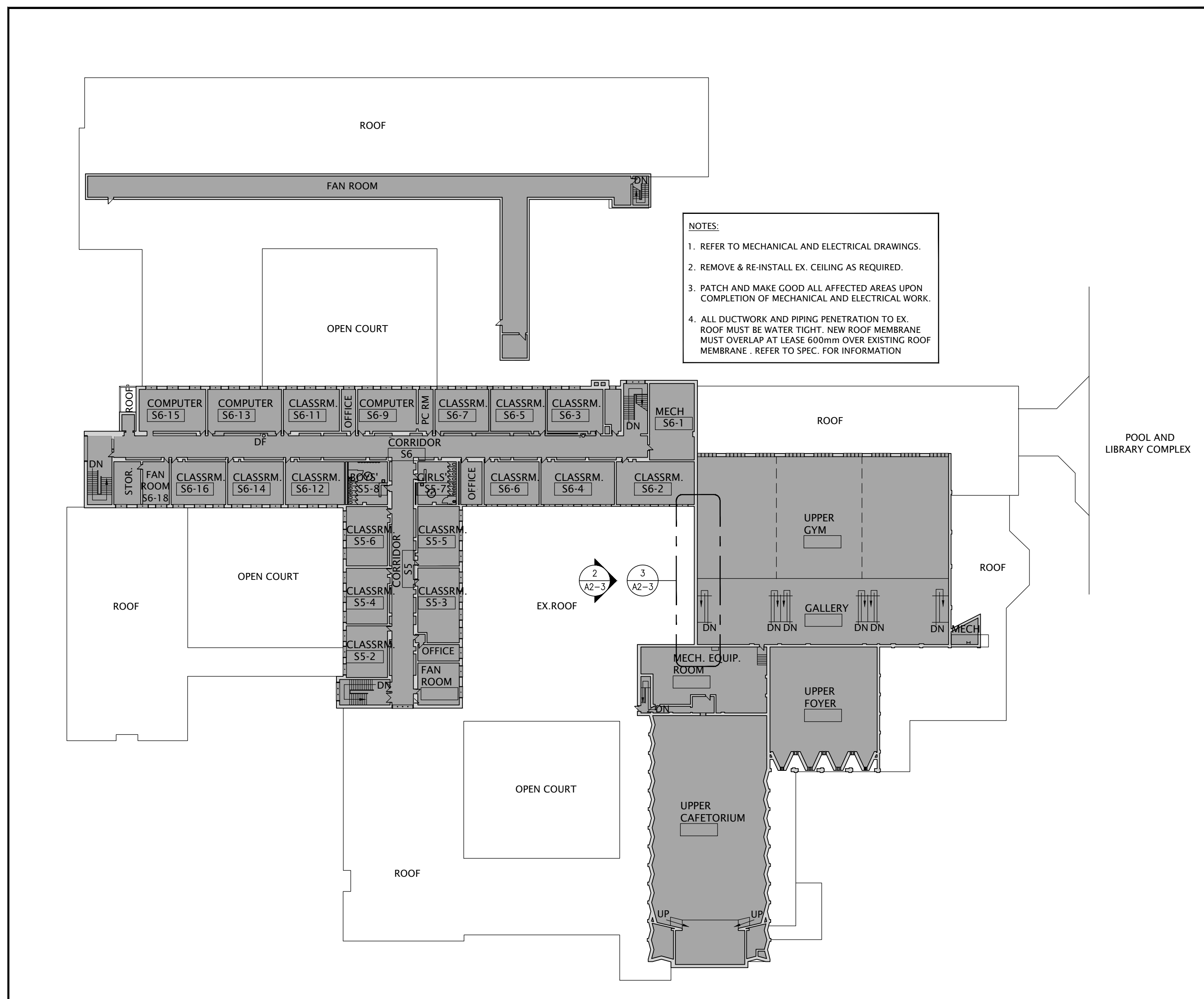
KINGSLAND + ARCHITECTS INC.
219 Dufferin Street, Suite 300B
Toronto, Ontario, M6K 3J1
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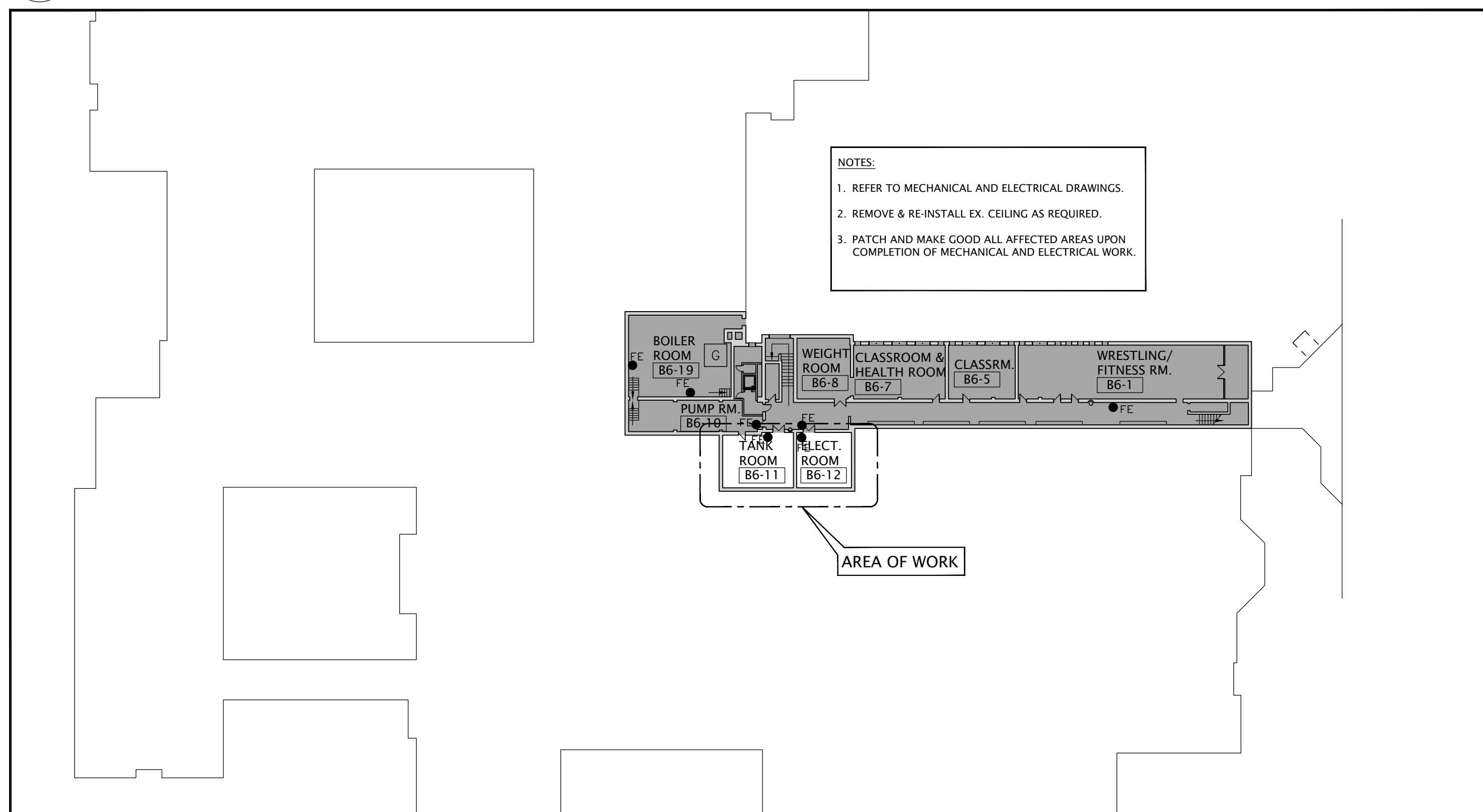
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PARTIAL WINDOW, BRICK, ASPHALT
REPLACEMENT & BF WASHROOM
255 Fischer-Hallman Rd.
Kitchener, ON N2M 4B8

DRAWING TITLE:
PARTIAL SITE PLAN
PROPOSED PARKING
& DEMOLITION PLANS

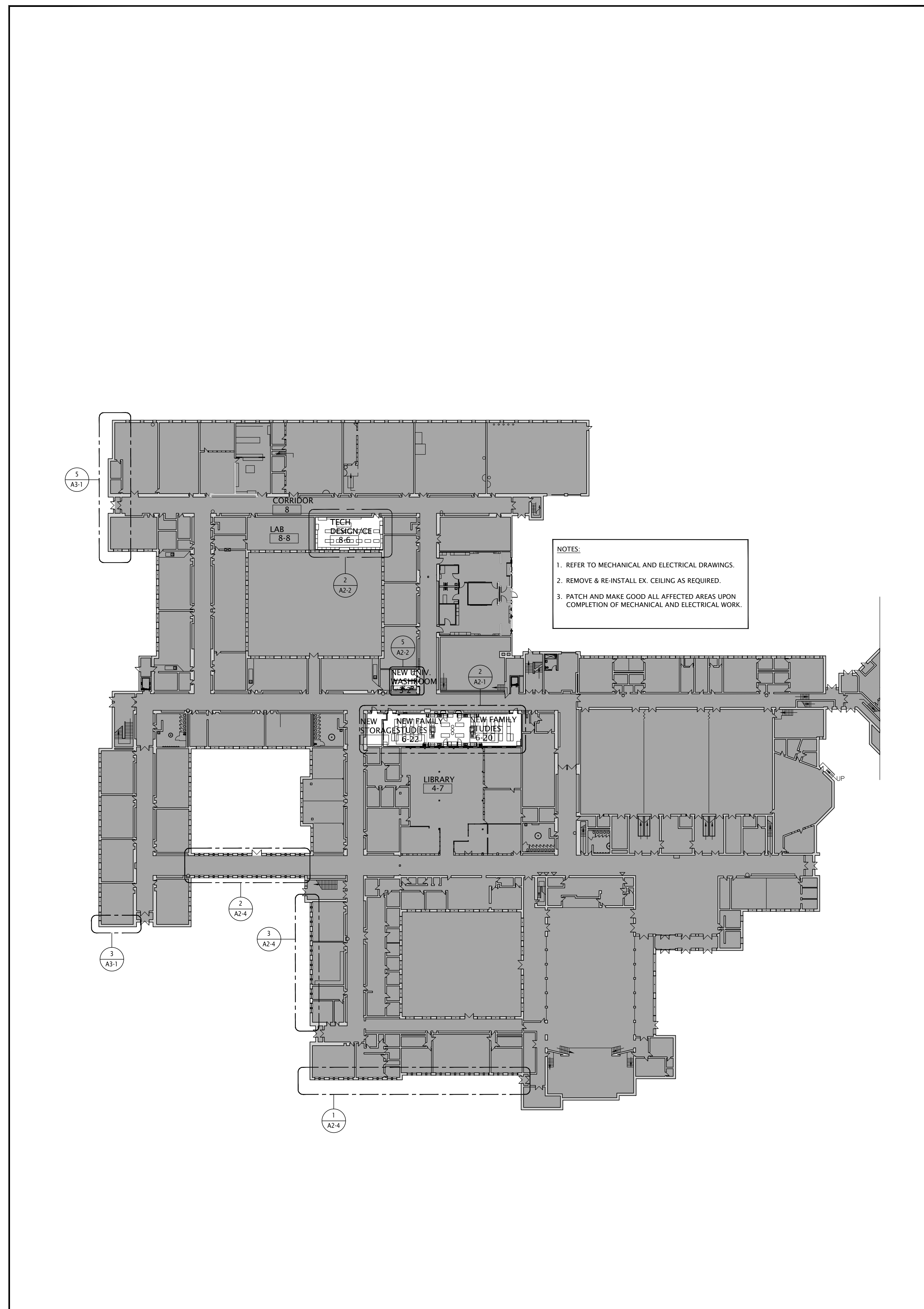
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DRAWN:	D.T.	DRAWING NO.:	A1-2
CHECKED:	B.F.	REV.:	2
DATE:	FEB/21		



2 OVERALL SECOND FLOOR PLAN
SCALE - 1:500



3 OVERALL BASEMENT PLAN
SCALE - 1:500

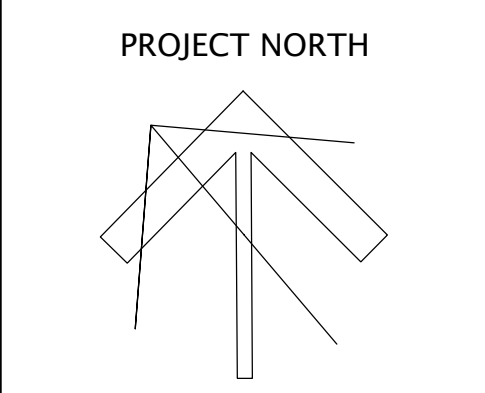


1 OVERALL FIRST FLOOR PLAN
SCALE - 1:500

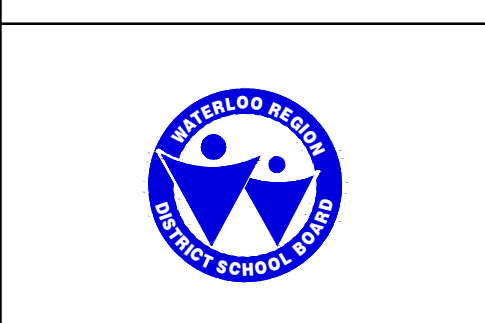
NO.	DATE	REVISION
1	21/02/20	ISSUED FOR PERMIT AND TENDER
2	22/02/24	RE-ISSUED FOR PERMIT AND TENDER
3	21/02/24	FOR MEETING WITH WRDSB

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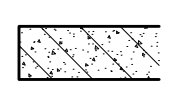
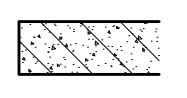
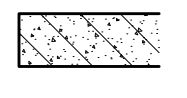
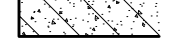
DRAWING TITLE:
**OVERALL
FIRST AND SECOND
FLOOR PLANS**


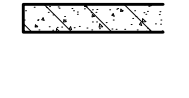

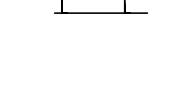


PROJECT NO. A20017	SCALE: 1:500
DRAWN: D.T./C.C.	DRAWING NO. REV. A2-0 2
CHECKED: B.F.	DATE: FEB/21

NEW CONSTRUCTION NOTES

THIS DRAWING IS FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PATCH AND MAKE GOOD ALL AFFECTED AREAS REQUIRED TO COMPLETE THE WORK. ALL WORK INCIDENTAL TO COMPLETING THE WORK IS PART OF THE WORK.

















INTERIOR WALL TYPE

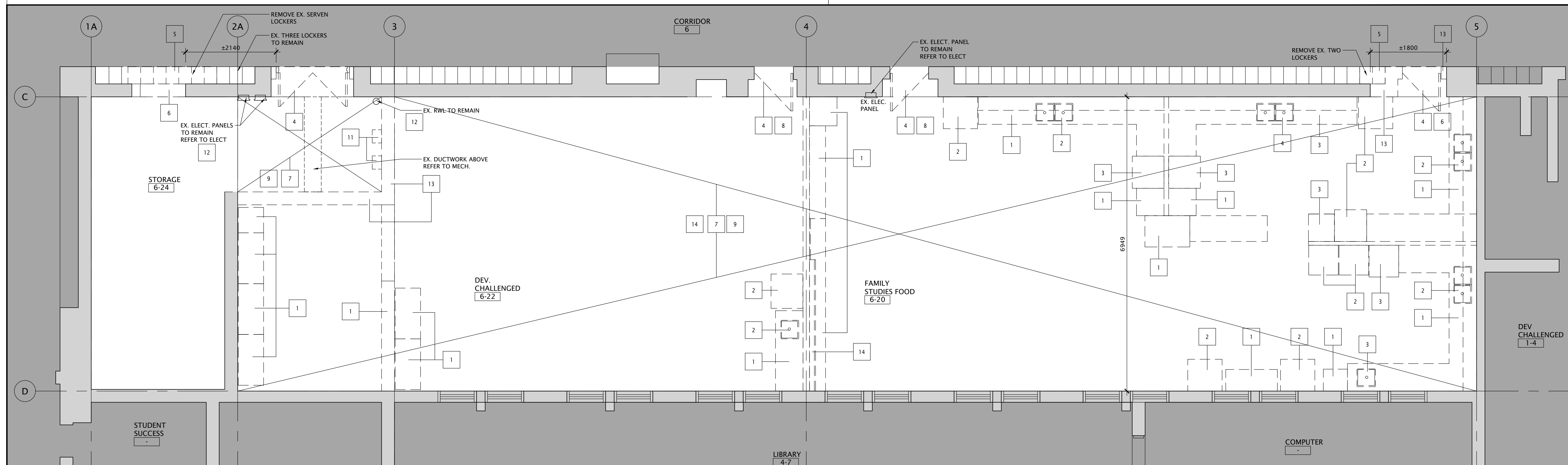
-  IW01 -190mm CONC. BLOCK WALL TO UNDERSIDE OF EXISTING FLOOR DECK
-  IW01x -MATCH EX. BLOCK WALL SIZE TO UNDERSIDE OF EXISTING ROOF DECK
-  IW02x -MATCH EX. BLOCK WALL SIZE TO INFiLL DOOR OPENING
-  IW02 -140mm CONC. BLOCK WALL TO EXTEND ±100MM ABOVE NEW CEILING

-  IW03 -140mm CONC. BLOCK WALL INFILL DOOR OPENING
-  IW04 -90mm CONC. BLOCK WALL TO EXTEND ±100MM ABOVE NEW CEILING
-  IW05 -16mm GYPSUM BOARD ON 22mm METAL FURRING (22 GAUGE @600 O.C.) EXTEND ± 200MMN ABOVE NEW CEILING
-  IW06 -16mm GYPSUM BOARD ON 100mm METAL STUD (22 GAUGE @400 O.C.) EXTEND ± 200MMN ABOVE NEW CEILING
-  IW07 -16mm GYPSUM BOARD ON 100mm METAL STUD STARTING AT BOTTOM OF UPPER CABINET EXTEND ± 200M ABOVE NEW CILING
-  IW08 -16mm GYPSUM BOARD ON 100mm METAL STUD FROM FLOOR EXTEND TO UNDERSIDE OF WINDOW SILL

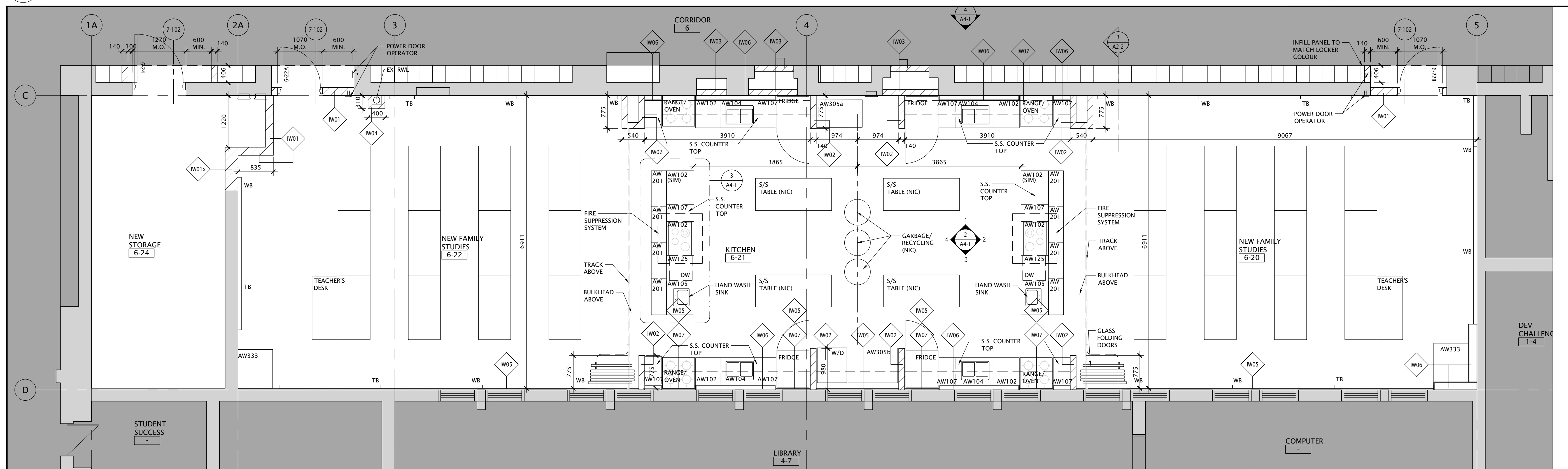
DEMOLITION NOTES

THIS DRAWING IS FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE DEMOLITION REQUIRED TO COMPLETE THE WORK. ALL DEMOLITION INCIDENTAL TO COMPLETING THE WORK IS PART OF THE WORK.

-  1 REMOVE AND DISCARD ALL MILLWORK AND SURROUNDING WALL BASE
-  2 TERMINATE SOURCE, CAP AT SOURCE, DISCONNECT, REMOVE AND DISCARD APPLIANCES
-  3 TERMINATE SOURCE DISCONNECT STOVE HOOD, REMOVE AND DISCARD
-  4 REMOVE AND DISCARD DOOR FRAME AND DOOR FROM WALL SALVAGE ROOM NUMBER TAGS FOR REUSE ON NEW DOORS. PREPARE WALLS TO RECEIVE NEW DOOR FRAME AND DOOR COMPLETE WITH DOOR OPERATORS SEE PROPOSED PLANS FOR DETAILS
-  5 CONFIRM LOCKERS TO BE REMOVED ON SITE. REMOVE LOCKERS AS AGREED AS PER SITE MEETING. TURN REMOVED LOCKERS OVER TO SCHOOL / SCHOOL BOARD. PREPARE AREAS FOR NEW DOOR OPENING
-  6 CUT WALL OPENING WIDER TO COMPLY WITH OBC
-  7 REMOVE AND DISCARD FINISH T-BAR GRID AND ACT. PREPARE CEILING TO RECEIVE NEW T-BAR GRID AND NEW ACT.
-  8 REMOVE DOOR FRAME AND DOOR. PREPARE WALL TO BE BLOCKED IN
-  9 REMOVE AND DISCARD EXISTING FLOOR FINISH AND WALL BASE. PREPARE SURFACES TO RECEIVE NEW FINISH
-  10 REMOVE ELECTRICAL FLOOR BOX AS PER ELECTRICAL DRAWINGS. PREPARE FLOOR AT AREA OF ELECTRICAL BOX FOR FILL WHERE REQUIRED AND NEW FLOOR FINISH
-  11 REMOVE AND RELOCATE EXISTING FLOOR SCRUBBER CHARGING STATION AS PER ELECTRICAL DRAWINGS
-  12 EXISTING SERVICE TO REMAIN
-  13 REMOVE AND DISCARD EXISTING FLOOR FINISH AND WALL BASE. PATCH AND MAKE GOOD FLOOR, WALL AND CEILING AREAS TO RECEIVE NEW FINISH
-  14 REMOVE AND DISCARD WHITEBOARDS AND TACKBOARDS
-  15 REMOVE AND DISCARD WATER CLOSET/LAVATORY. TERMINATE/CAP THE SOURCE. REFER TO MECH.
-  16 SAW CUT EX. FLOOR SLAB TO ACCOMMODATE NEW FLOOR DRAIN/PIPE. SEE MECH. FOR FLOOR DRAIN SPEC.



1 PARTIAL FIRST FLOOR PLAN - DEMOLITION
SCALE - 1:50



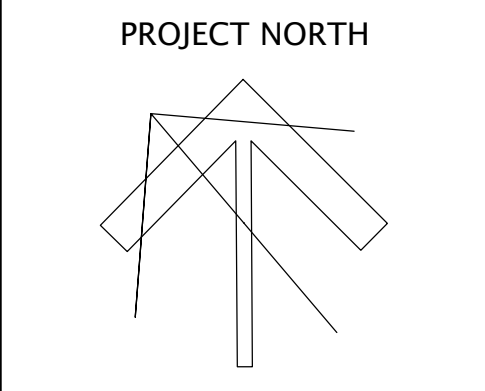
2 PARTIAL FIRST FLOOR PLAN - PROPOSED
SCALE - 1:50

NO.	DATE	REVISION
1	22/02/21	RE-ISSUED FOR TENDER
0	27/05/21	ISSUED FOR PERMIT AND TENDER

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- ALL DIMENSIONS GIVEN ARE IN METRIC.



KINGSLAND ARCHITECTS INC.
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FOREST HEIGHTS C.I.
FAMILY STUDIES RENOVATION,
PARTIAL WINDOW, BRICK, ASPHALT
REPLACEMENT & BF WASHROOM
255 Fischer Hallman Rd.
Kitchener, ON N2M 4R8

DRAWING TITLE:
PARTIAL FIRST FLOOR PLAN
FAMILY STUDIES DEMOLITION
& PROPOSED

PROJECT NO: A20017	SCALE: 1:50
DRAWN: D.T./C.C.	DRAWING NO. REV. A2-1 1
CHECKED: B.F.	DATE: FEB/21

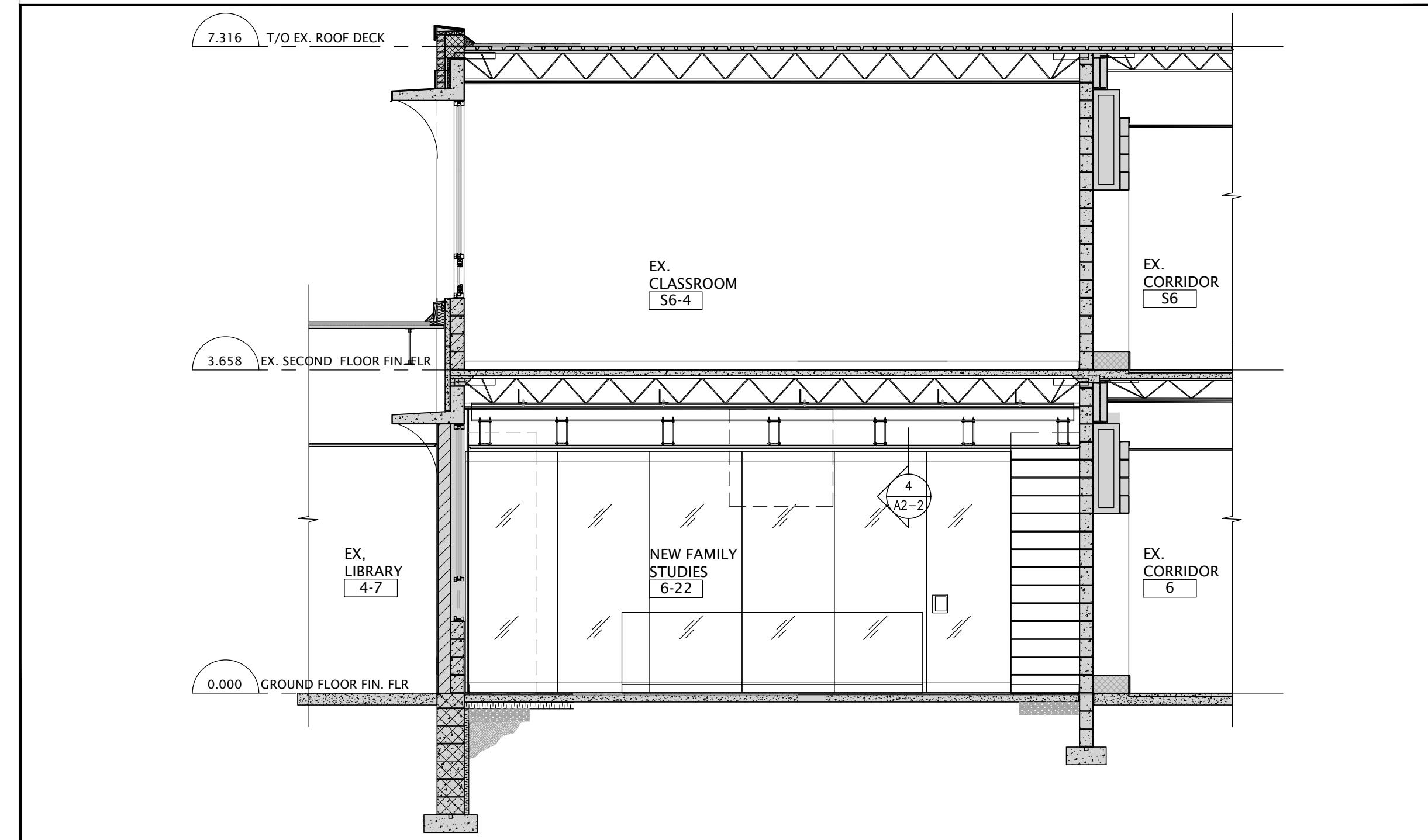
NEW CONSTRUCTION NOTES
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- INTERIOR WALL TYPE**
- W01 -190mm CONC. BLOCK WALL TO UNDERSIDE OF EXISTING FLOOR DECK
 - W01X -MATCH EX. BLOCK WALL SIZE TO UNDERSIDE OF EXISTING ROOF DECK
 - W02 -MATCH EX. BLOCK WALL SIZE TO INFILL DOOR OPENING
 - W02X -140mm CONC. BLOCK WALL TO EXTEND ±100MM ABOVE NEW CEILING

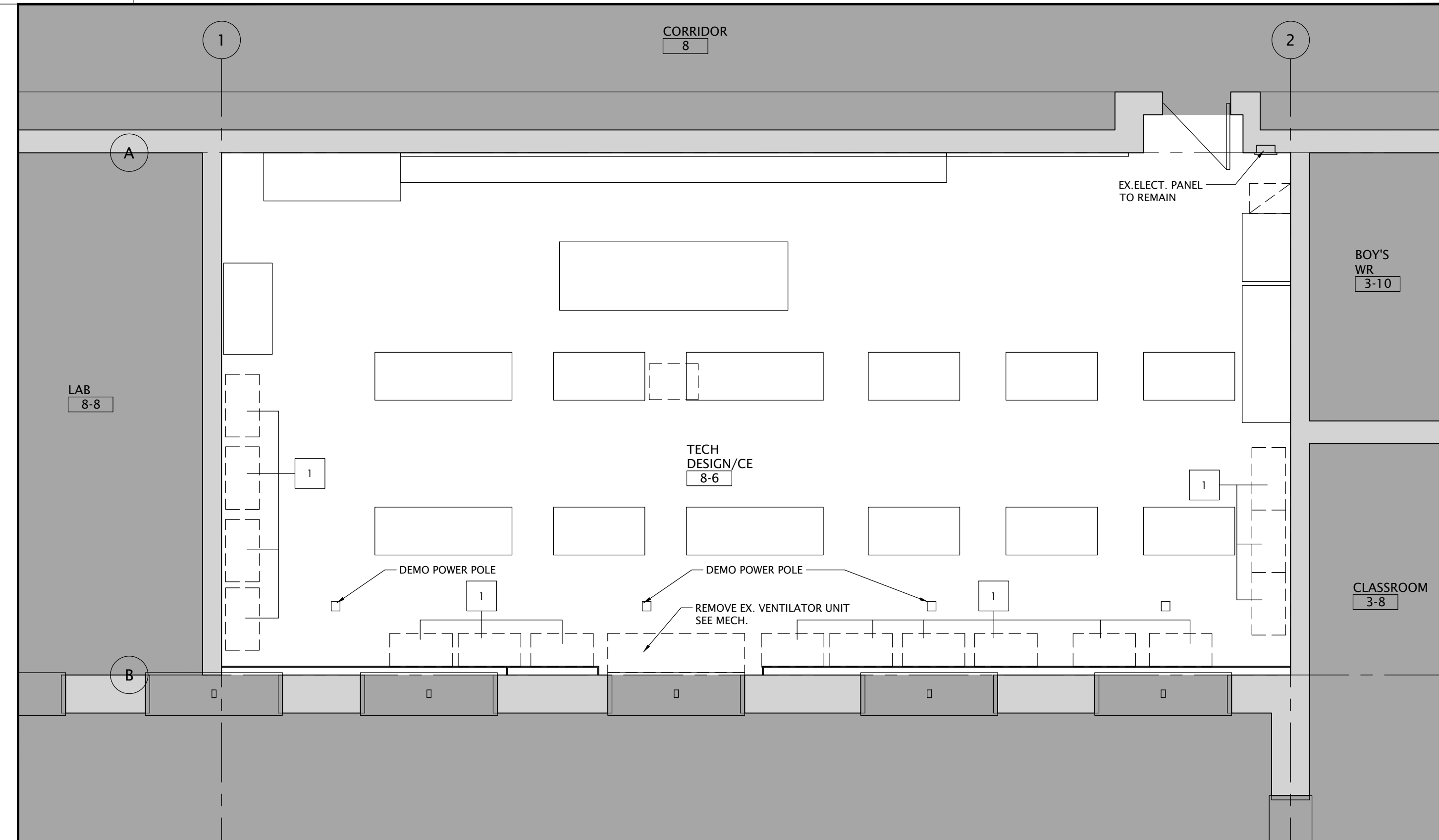
- W03 -140mm CONC. BLOCK WALL INFILL DOOR OPENING
- W04 -90mm CONC. BLOCK WALL TO EXTEND ±100MM ABOVE NEW CEILING
- W05 -16mm GYPSUM BOARD ON 22mm METAL FURRING (2 GAUGE @600 O.C.) EXTEND ± 200MMN ABOVE NEW CEILING
- W06 -16mm GYPSUM BOARD ON 100mm METAL STUD (2 GAUGE @400 O.C.) EXTEND ± 200MMN ABOVE NEW CEILING
- W07 -16mm GYPSUM BOARD ON 100mm METAL STUD STARTING AT BOTTOM OF UPPER CABINET EXTEND ± 200M ABOVE NEW CILING
- W08 -16mm GYPSUM BOARD ON 100mm METAL STUD FROM FLOOR EXTEND TO UNDERSIDE OF WINDOW SILL

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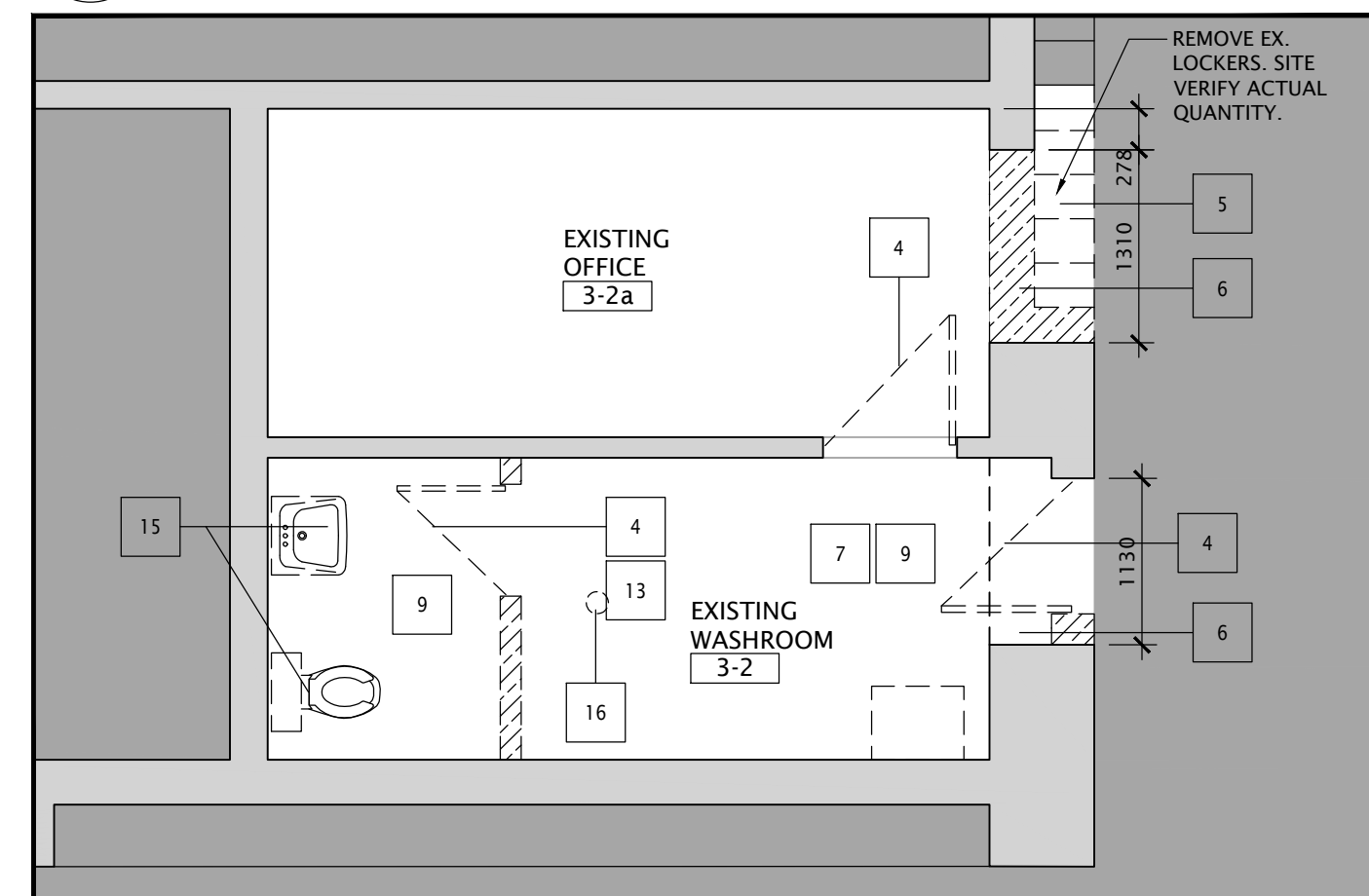
- 1 REMOVE AND DISCARD ALL MILLWORK AND SURROUNDING WALL BASE
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- 13 REMOVE AND DISCARD WALL, PATCH AND MAKE GOOD FLOOR, WALL AND CEILING AREAS TO RECEIVE NEW FINISH
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- 16 SAW CUT EX. FLOOR SLAB TO ACCOMMODATE NEW FLOOR DRAIN/PIPE. SEE MECH. FOR FLOOR DRAIN SPEC.



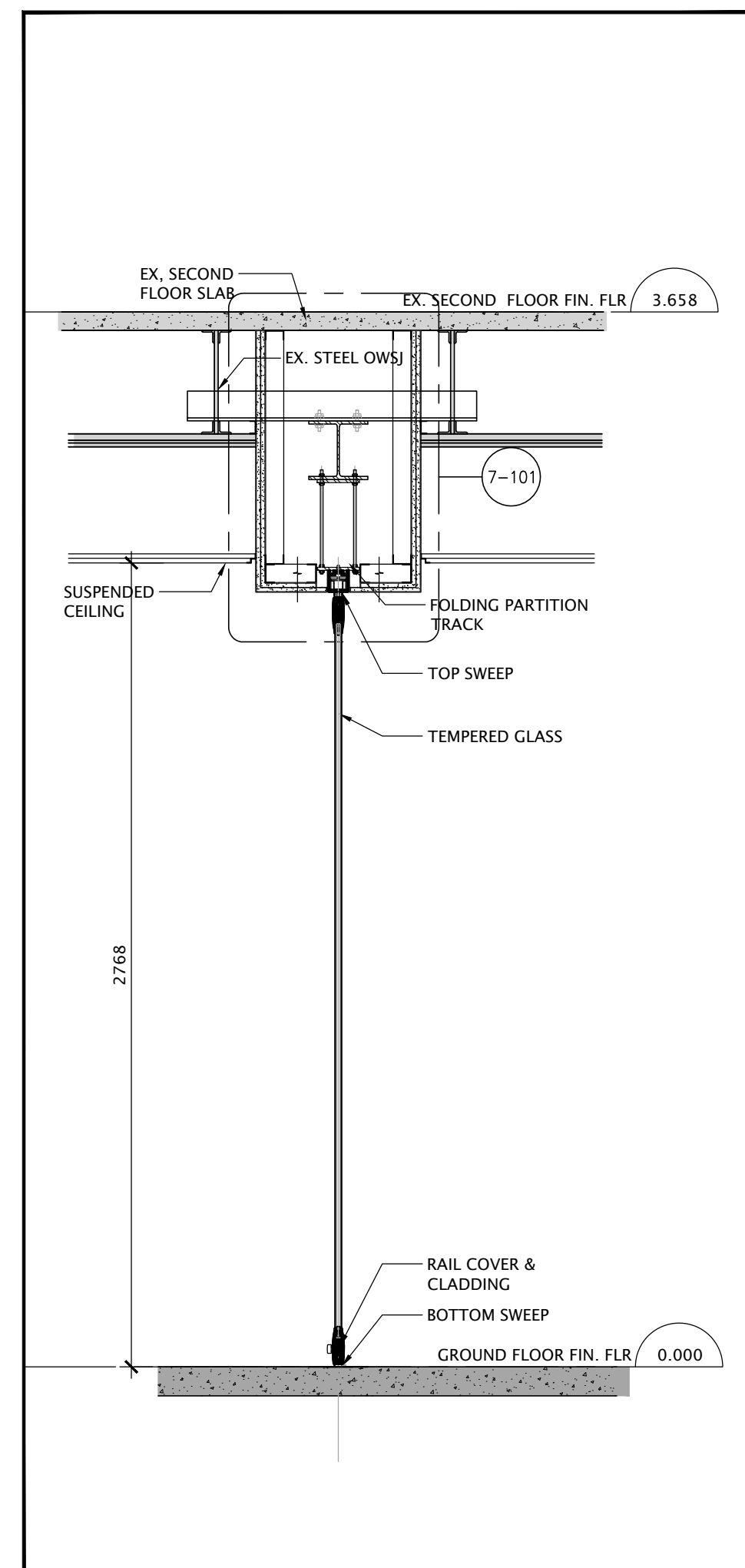
3 SECTION AT NEW FAMILY ROOM
A2-2 SCALE - 1:50



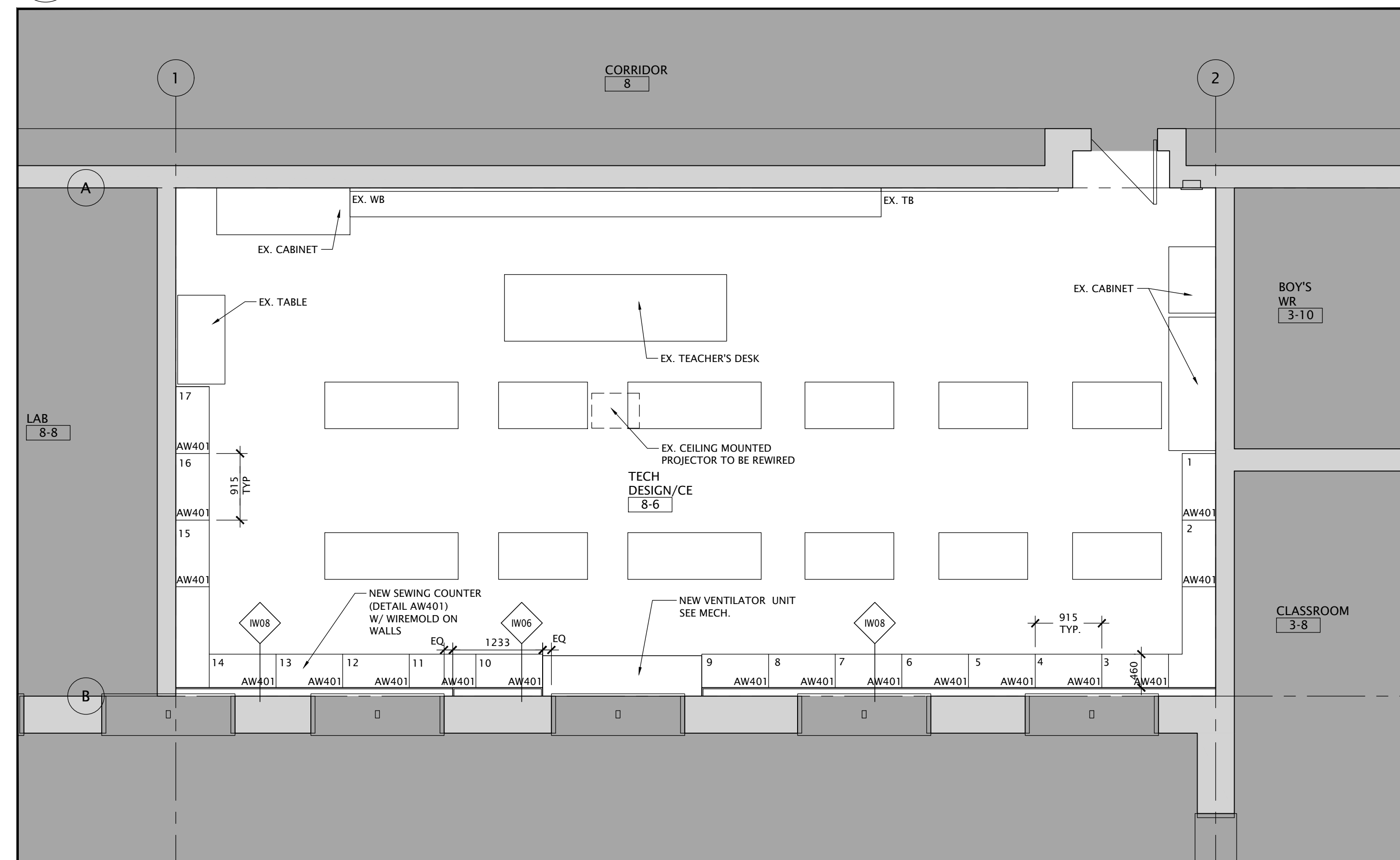
1 PARTIAL FIRST FLOOR PLAN - DEMOLITION
A2-2 SCALE - 1:50



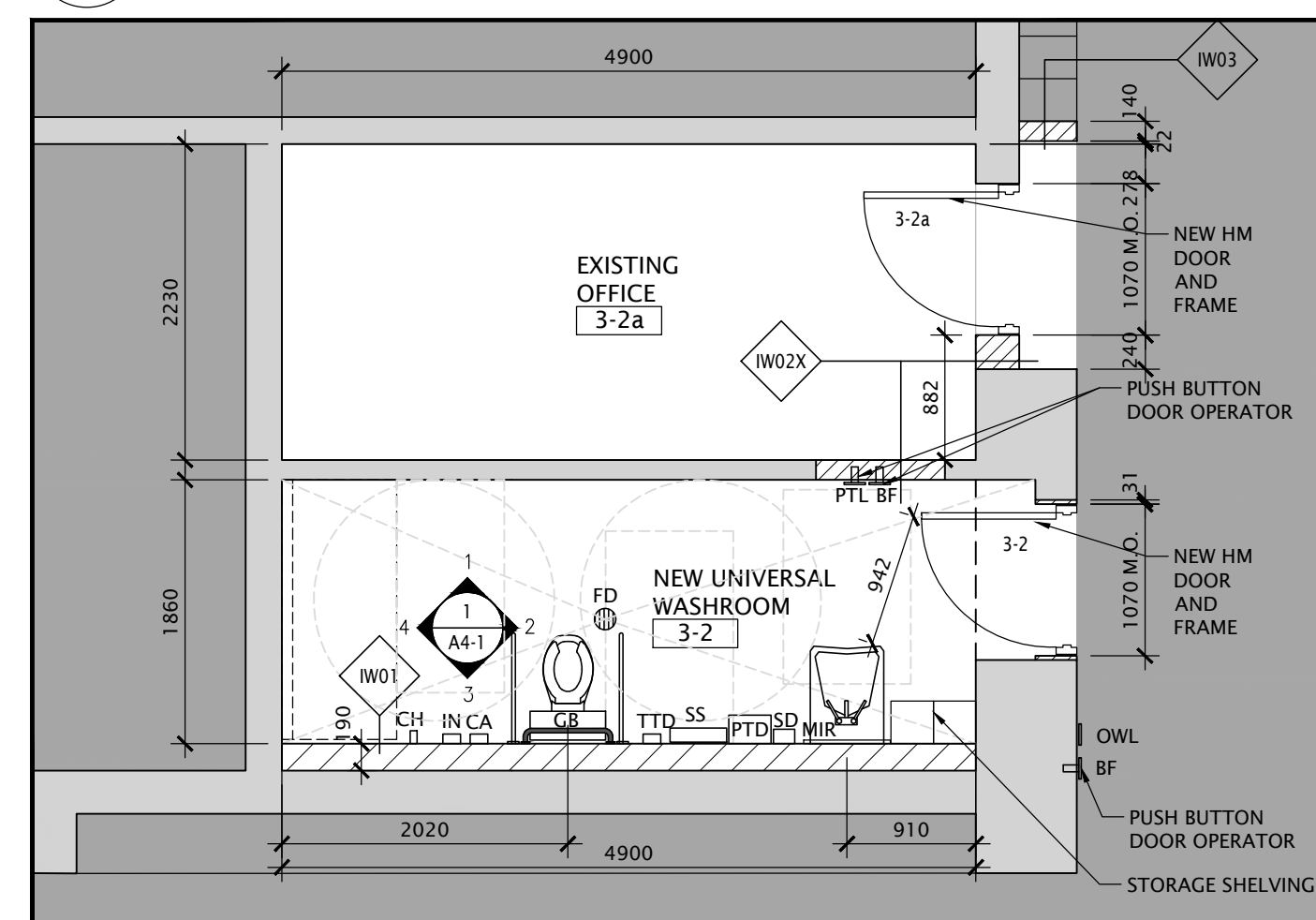
5 PARTIAL FIRST FLOOR PLAN - DEMOLITION
A2-2 SCALE - 1:50



4 SECTION AT FOLDING GLASS PARTITION
A2-2 SCALE - 1:20



2 PARTIAL FIRST FLOOR PLAN - NEW
A2-2 SCALE - 1:50

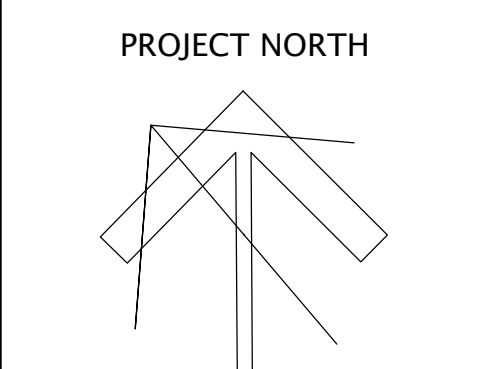


6 PARTIAL FIRST FLOOR PLAN - NEW
A2-2 SCALE - 1:50

NO.	DATE	REVISION
1	21/02/21	ISSUED FOR PERMIT AND TENDER
2	22/02/21	RE-ISSUED FOR TENDER
3	01/05/21	ISSUED FOR PERMIT AND TENDER

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Kingsland + ARCHITECTS INC.

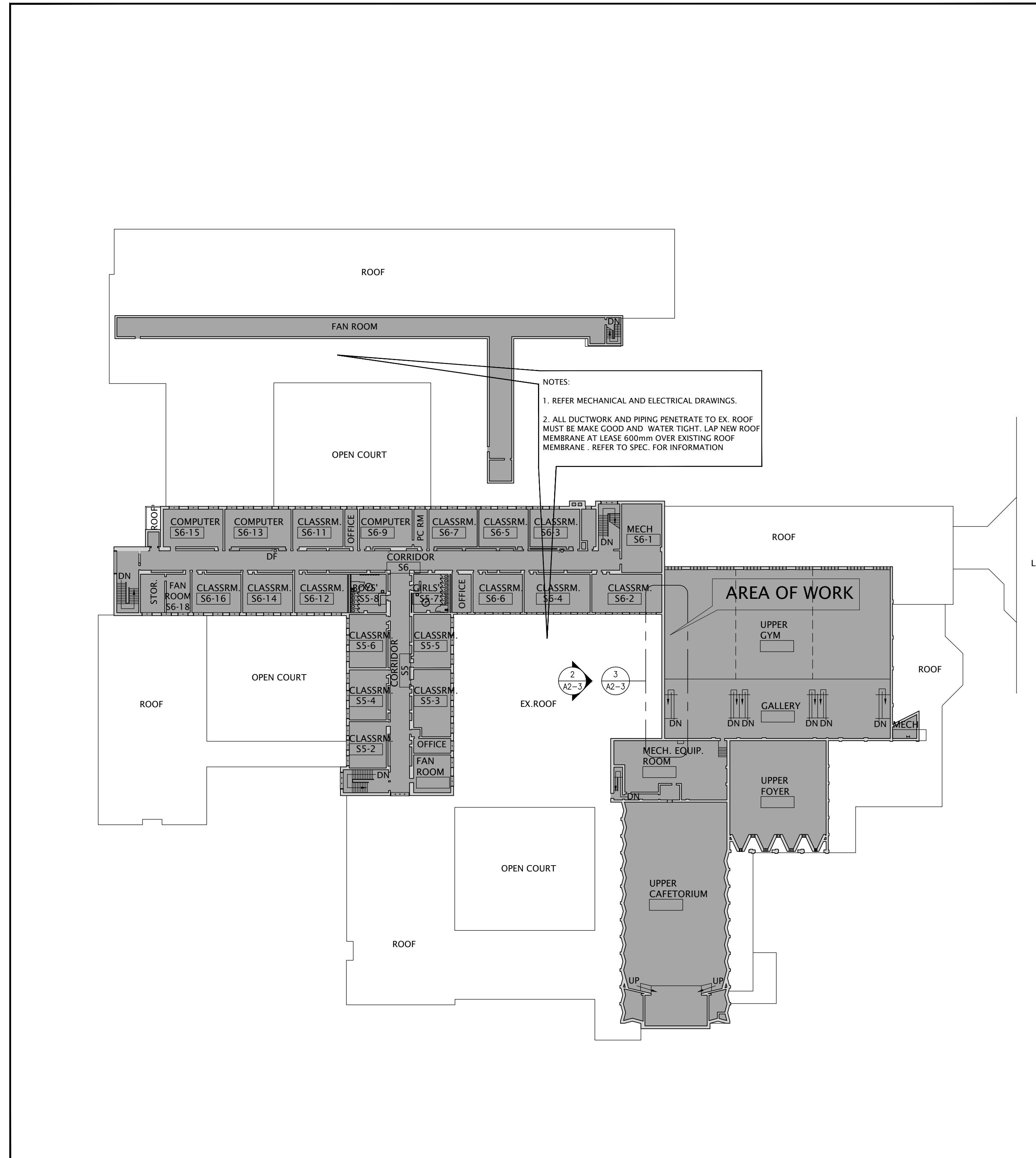
KINGSLAND + ARCHITECTS INC
219 Dufferin Street, Suite 308b
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ph 416.203.7799
fax 416.203.7763



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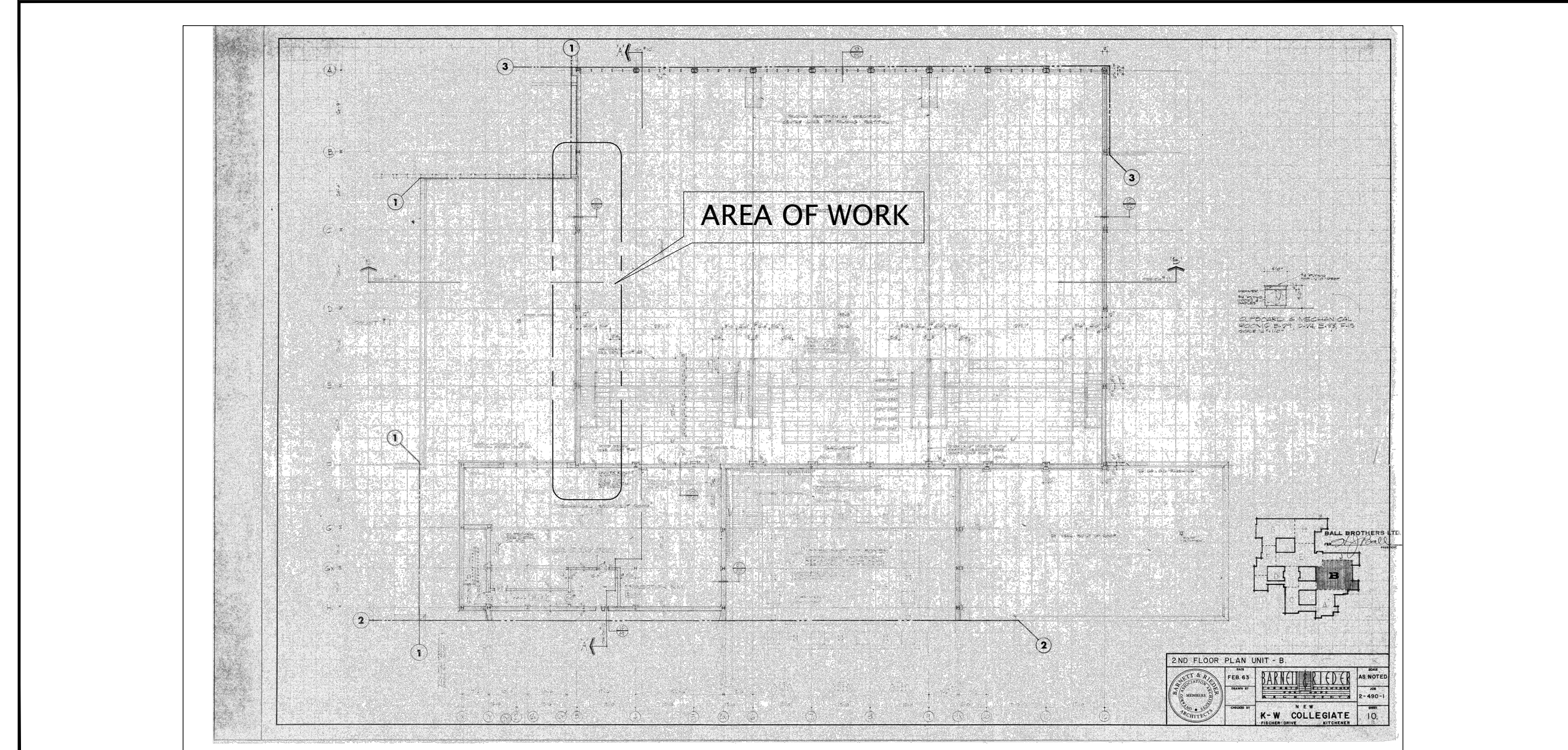
DRAWING TITLE:
**PARTIAL FIRST FLOOR PLAN
TECH DESIGN/CE DEMOLITION
& PROPOSED
FAMILY STUDIES SECTIONS**

PROJECT NO: A20017	SCALE: 1:50
DRAWN: D.T./C.C.	DRAWING NO. REV. A2-2 2
CHECKED: B.F.	DATE: FEB/21

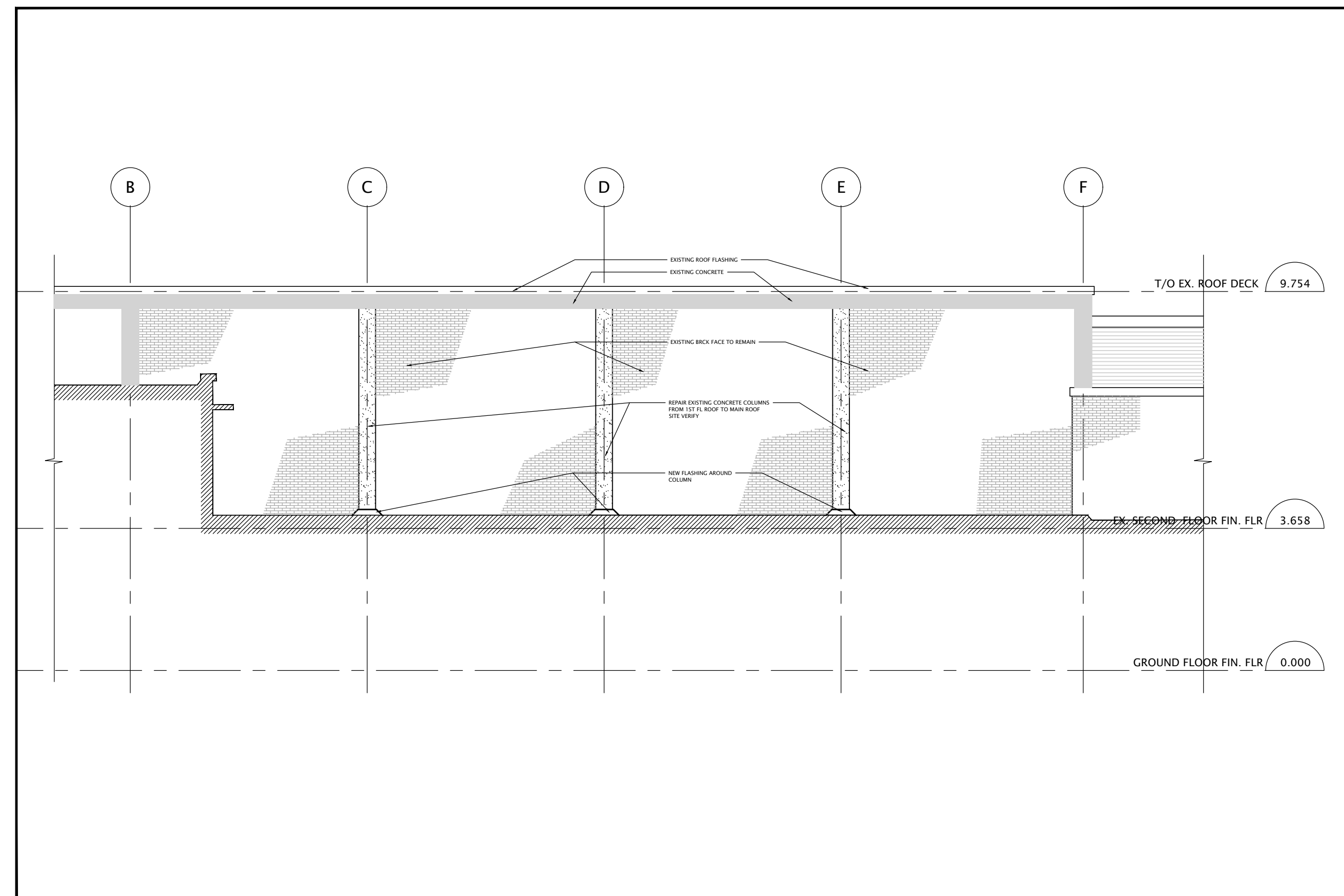


1 OVERALL SECOND FLOOR PLAN
A2-3 SCALE - 1:500

NOTES:
1. REFER MECHANICAL AND ELECTRICAL DRAWINGS.
2. ALL DUCTWORK AND PIPING PENETRATE TO EX. ROOF MUST BE MADE GOOD AND WATER TIGHT. LAP NEW ROOF MEMBRANE AT LEAST 600mm OVER EXISTING ROOF MEMBRANE. REFER TO SPEC. FOR INFORMATION



3 PARTIAL EXISTING 2ND FLOOR PLAN
A2-3 SCALE - 1:100

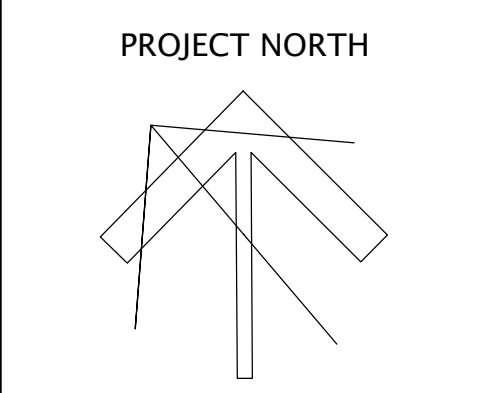


2 PARTIAL ELEVATION
A2-3 SCALE - 1:100

NO.	DATE	REVISION
1	21/09/07	ISSUED FOR PERMIT AND TENDER
2	22/02/23	RE-ISSUED FOR PERMIT AND TENDER
3	21/02/24	FOR MEETING WITH WRDSB

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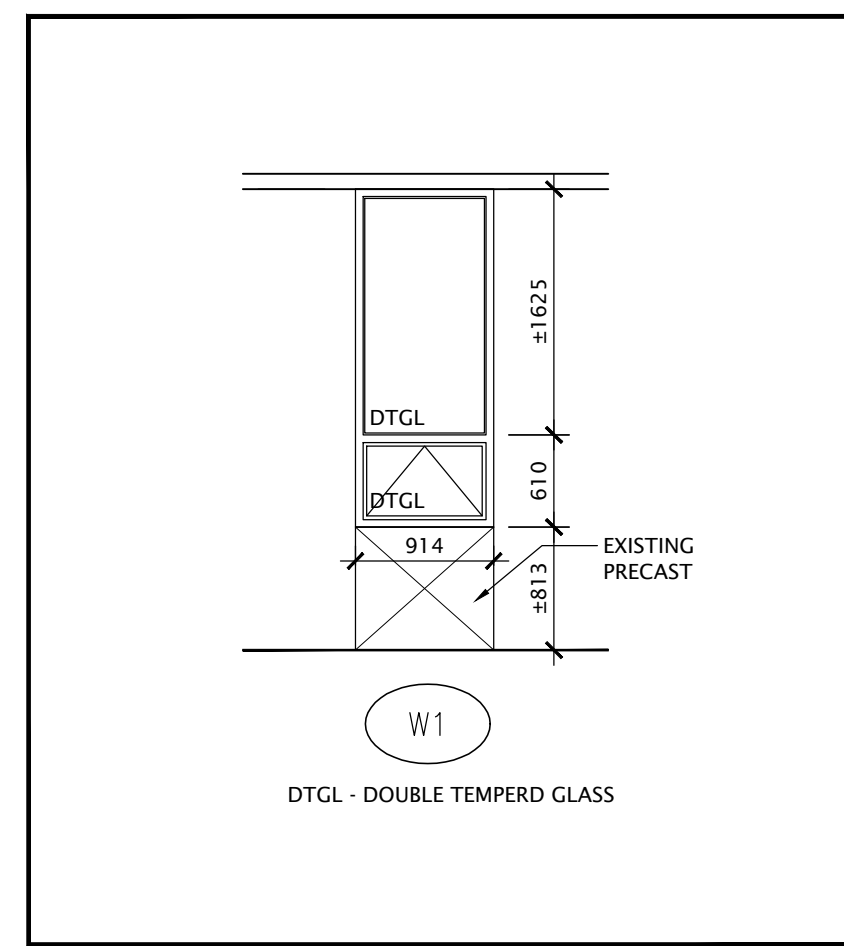
KINGSLAND + ARCHITECTS INC.
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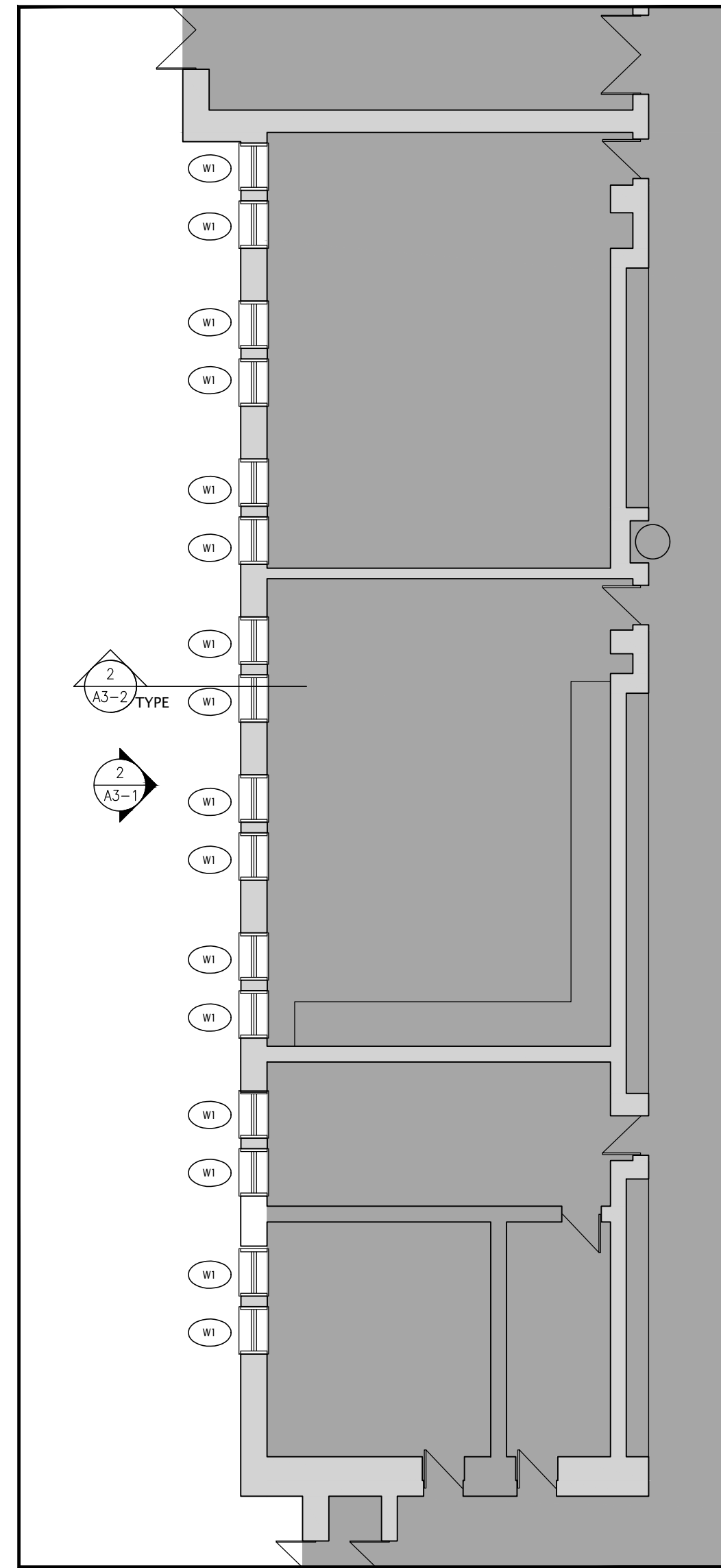
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PARTIAL WINDOW, BRICK, ASPHALT
REPLACEMENT & BF WASHROOM
255 Fischer-Hallman Rd.
Kitchener, ON N2M 4R8

DRAWING TITLE:
PARTIAL 2ND FLOOR PLAN &
ELEVATION -
COLUMN REPAIR

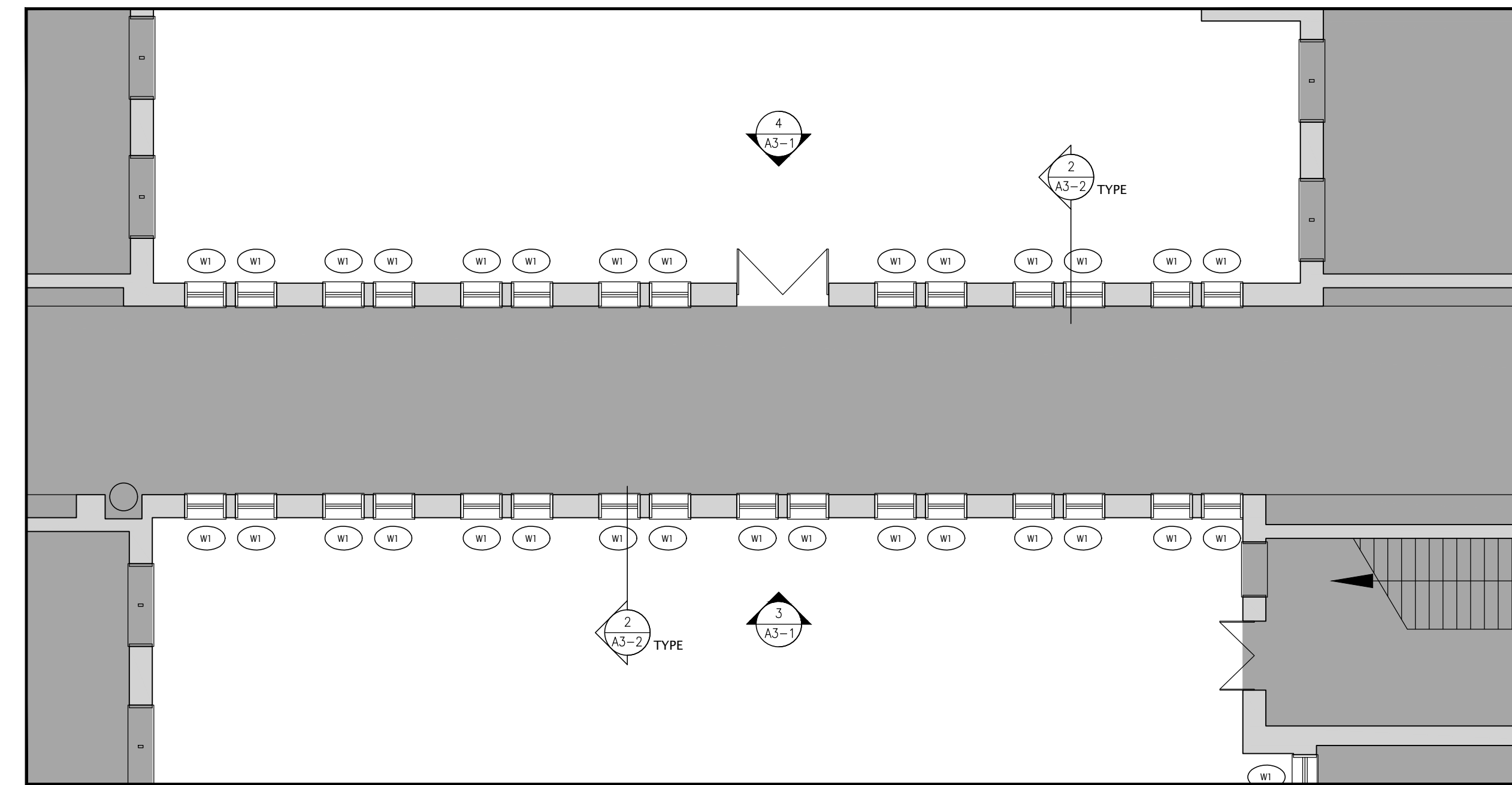
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DRAWN: K+	DRAWING NO. REV. A2-3 2
CHECKED: K+	DATE: FEB/21



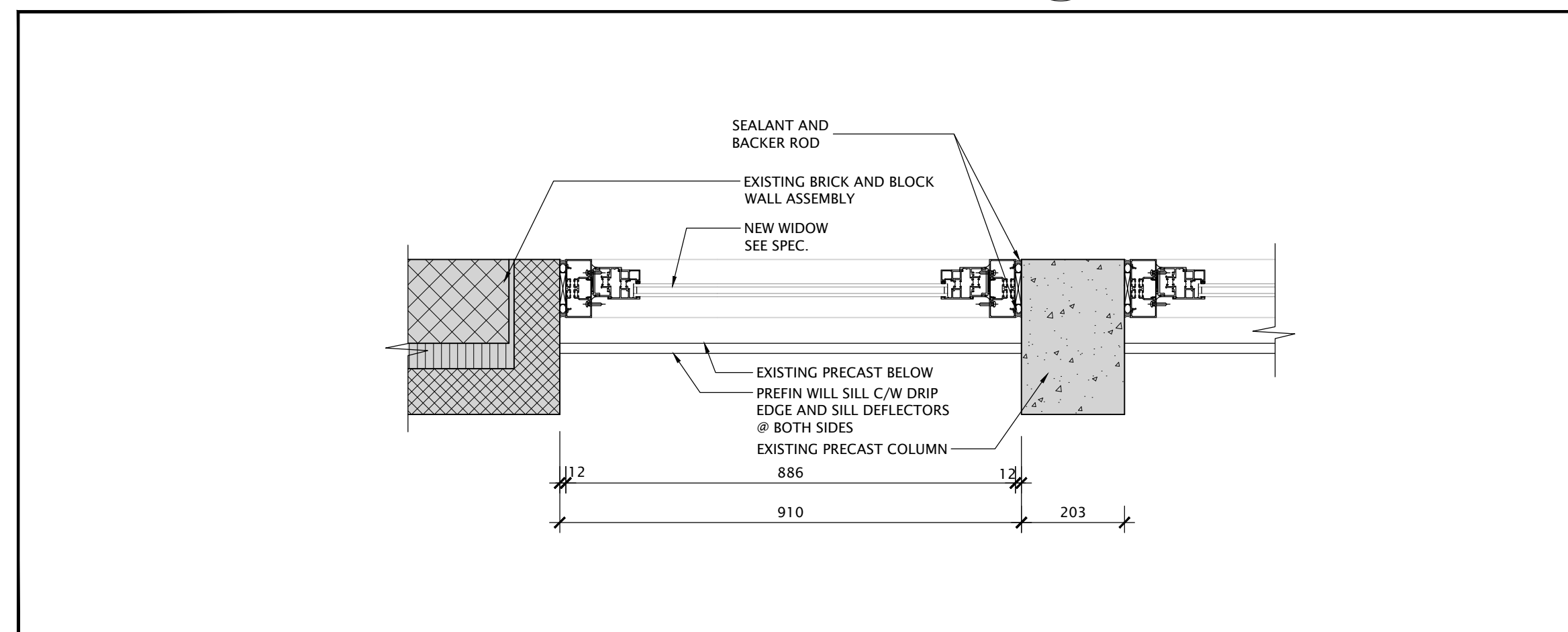
4 WINDOWS DETAIL
A2-4 SCALE - 1:50



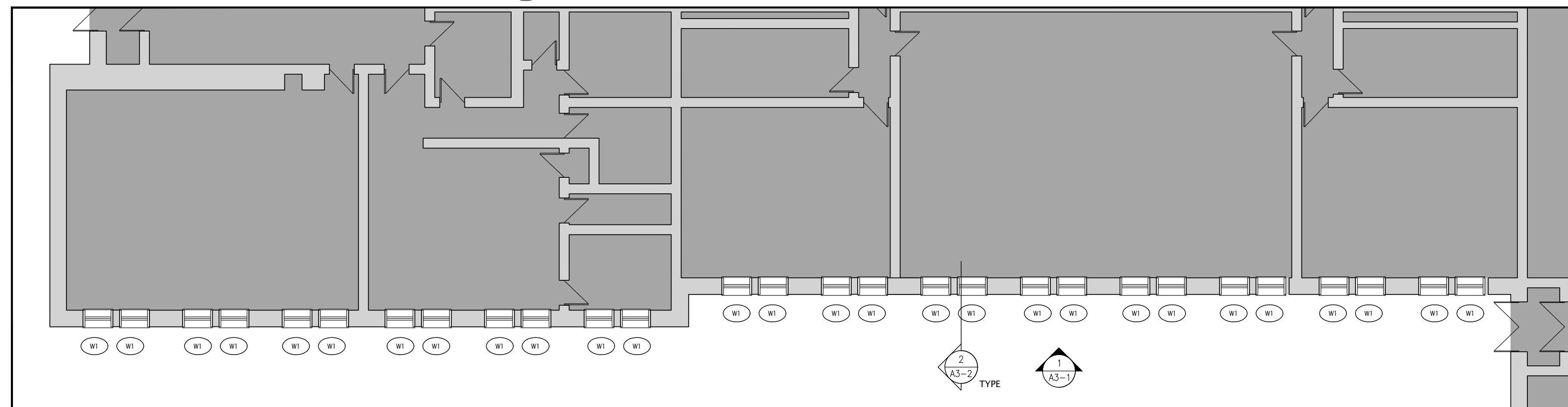
3 PARTIAL FIRST FLOOR PLAN - WINDOWS REPLACEMENT
A2-4 SCALE - 1:100



2 PARTIAL FIRST FLOOR PLAN - WINDOWS REPLACEMENT
A2-4 SCALE - 1:100



5 NEW WINDOW PLAN SECTION DETAIL
A2-4 SCALE - 1:10

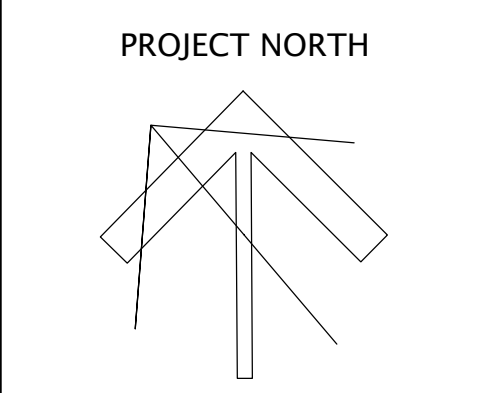


1 PARTIAL FIRST FLOOR PLAN - WINDOWS REPLACEMENT
A2-4 SCALE - 1:100

NO.	DATE	REVISION
1	21/09/21	ISSUED FOR PERMIT AND TENDER
2	22/02/23	RE-ISSUED FOR PERMIT AND TENDER
3	27/02/24	FOR MEETING WITH WRDSB

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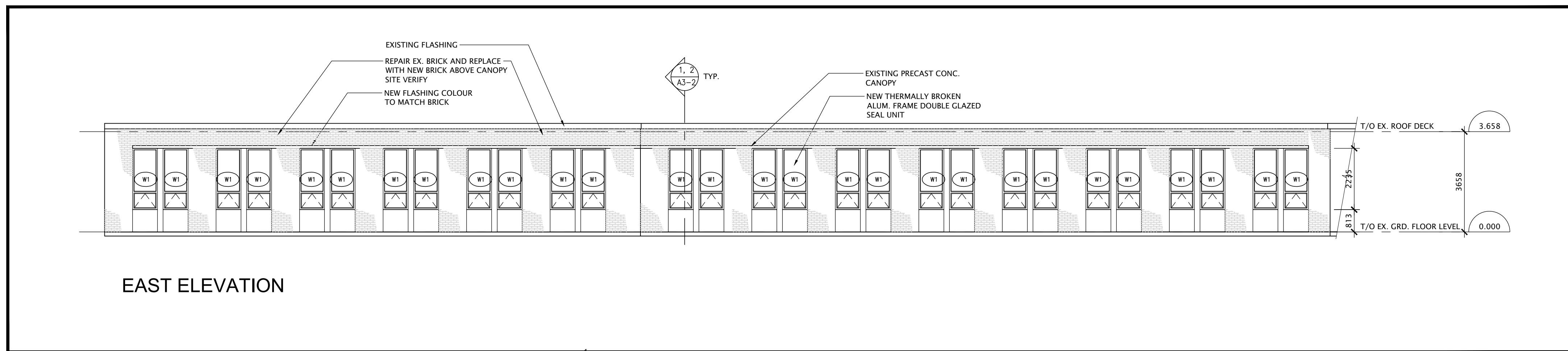
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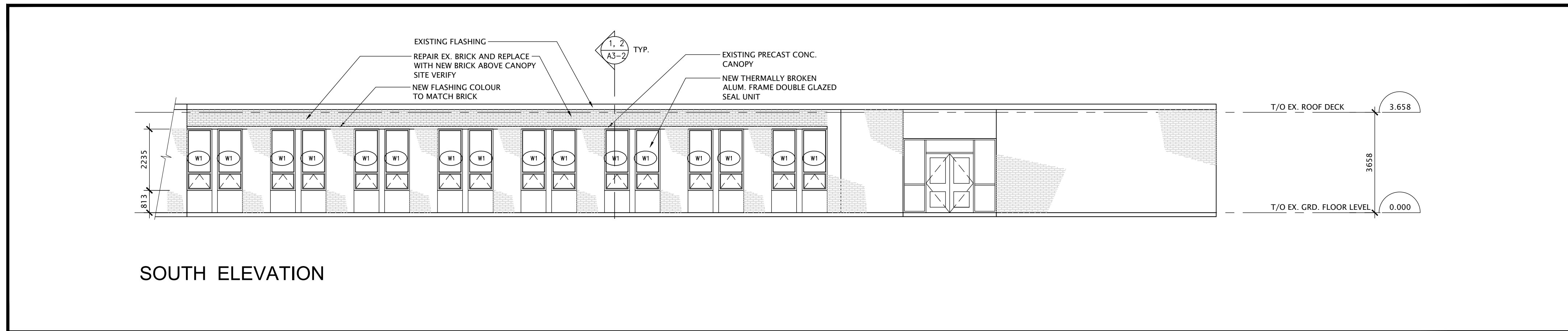
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PARTIAL WINDOW, BRICK, ASPHALT
REPLACEMENT & BF WASHROOM
255 Fischer Hallman Rd.
Kitchener, ON N2M 4B8

DRAWING TITLE:
PARTIAL FIRST FLOOR
WINDOW REPLACEMENT

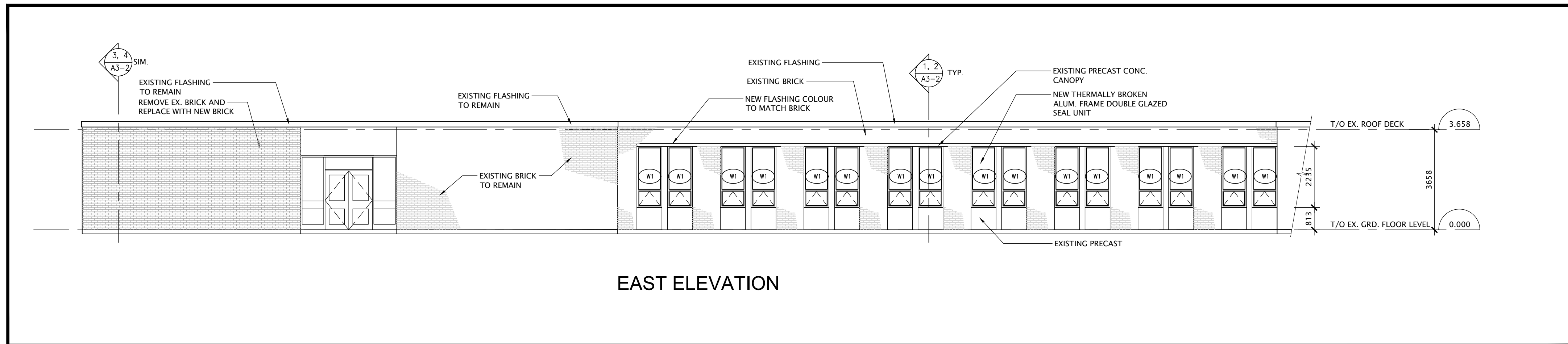
PROJECT NO: A20017	SCALE: 1:100
DRAWN: D.T.	DRAWING NO. REV. A2-4 2
CHECKED: B.F.	DATE: FEB/21



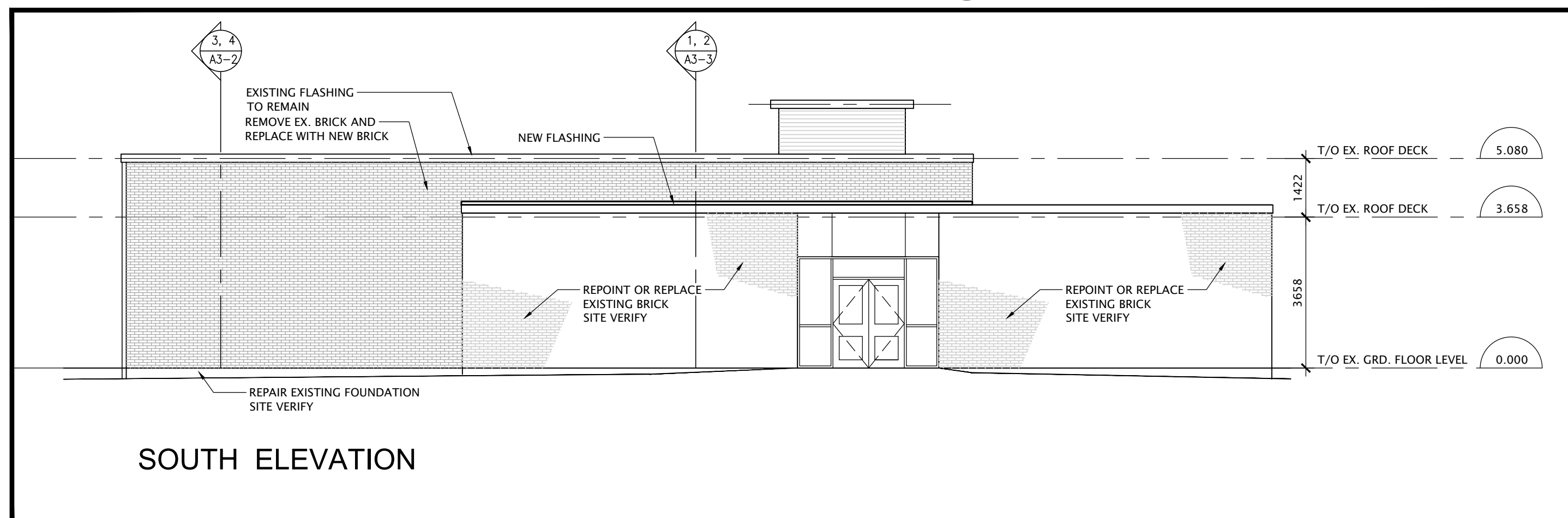
1 EAST ELEVATION
A3-1 SCALE: 1:100



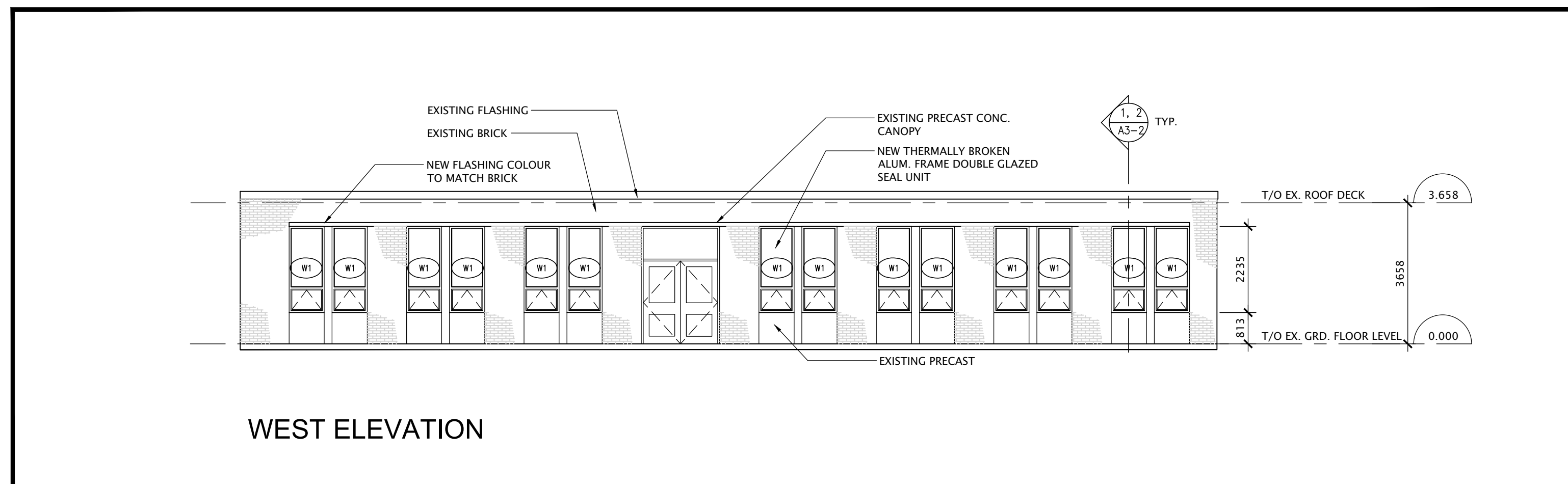
2 SOUTH ELEVATION
A3-1 SCALE: 1:100



3 EAST ELEVATION
A3-1 SCALE: 1:100



5 SOUTH ELEVATION
A3-1 SCALE: 1:100



4 WEST ELEVATION
A3-1 SCALE: 1:100

NO.	DATE	REVISION
3	22/02/23	RE-ISSUED FOR TENDER
2	21/02/23	ISSUED FOR PERMIT AND TENDER
1	21/02/23	FOR MEETING WITH WRDSE
0	20/11/23	ISSUED FOR CLIENT REVIEW

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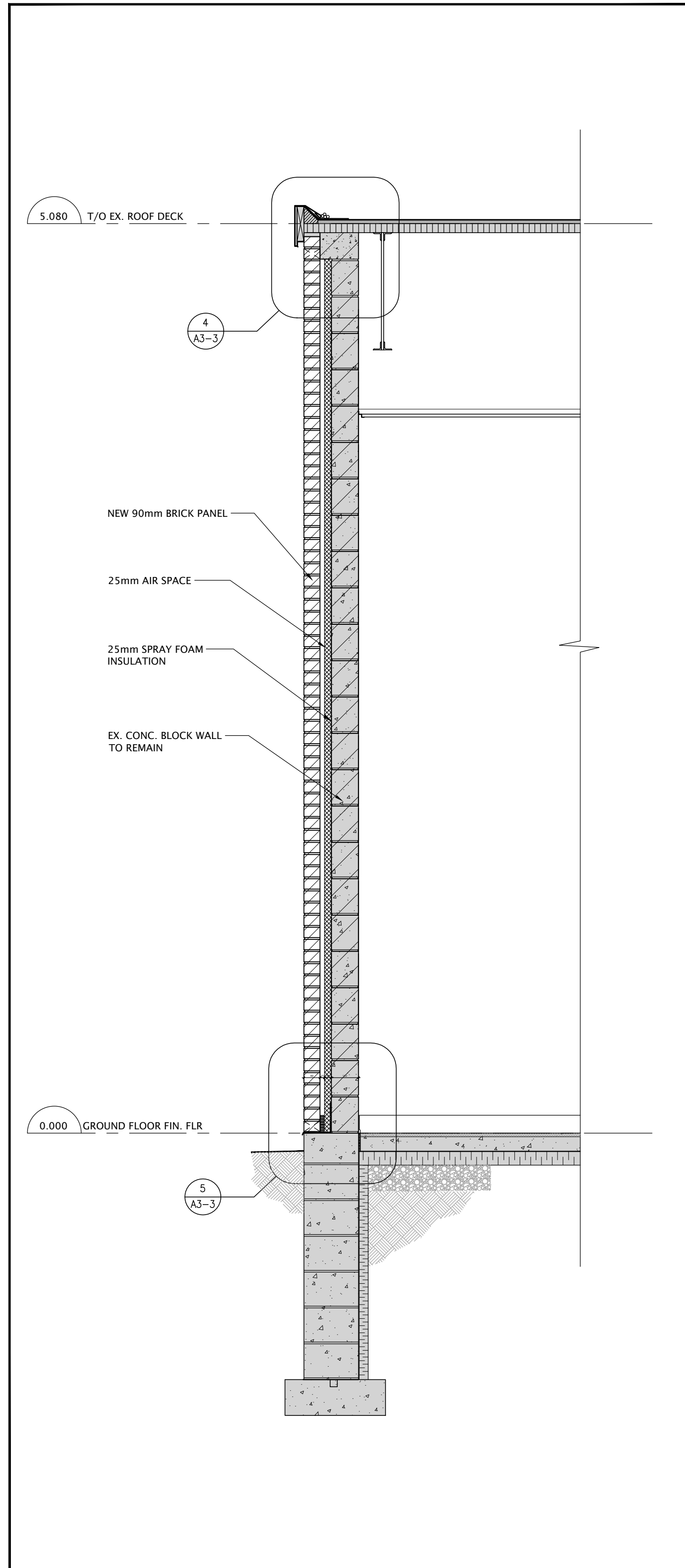
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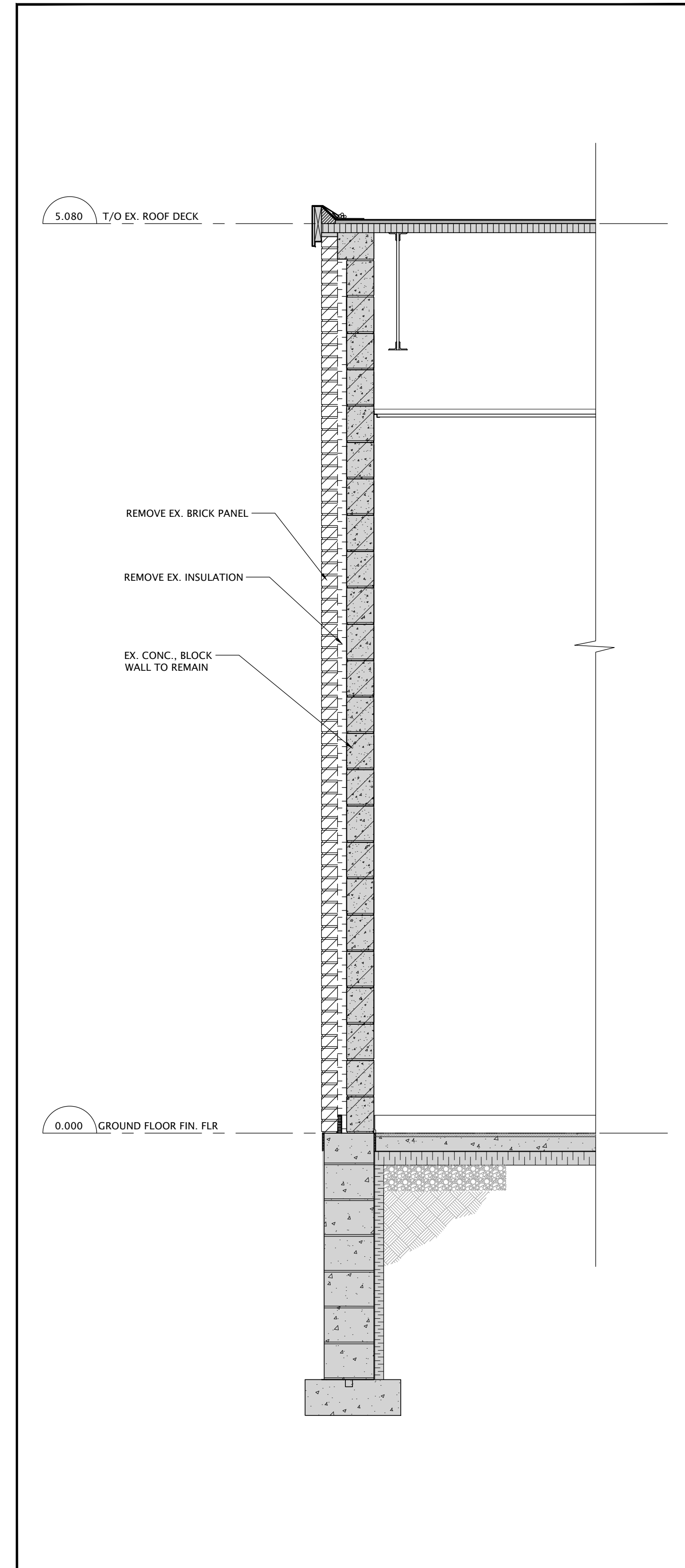
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DRAWING TITLE:
EXTERIOR ELEVATIONS

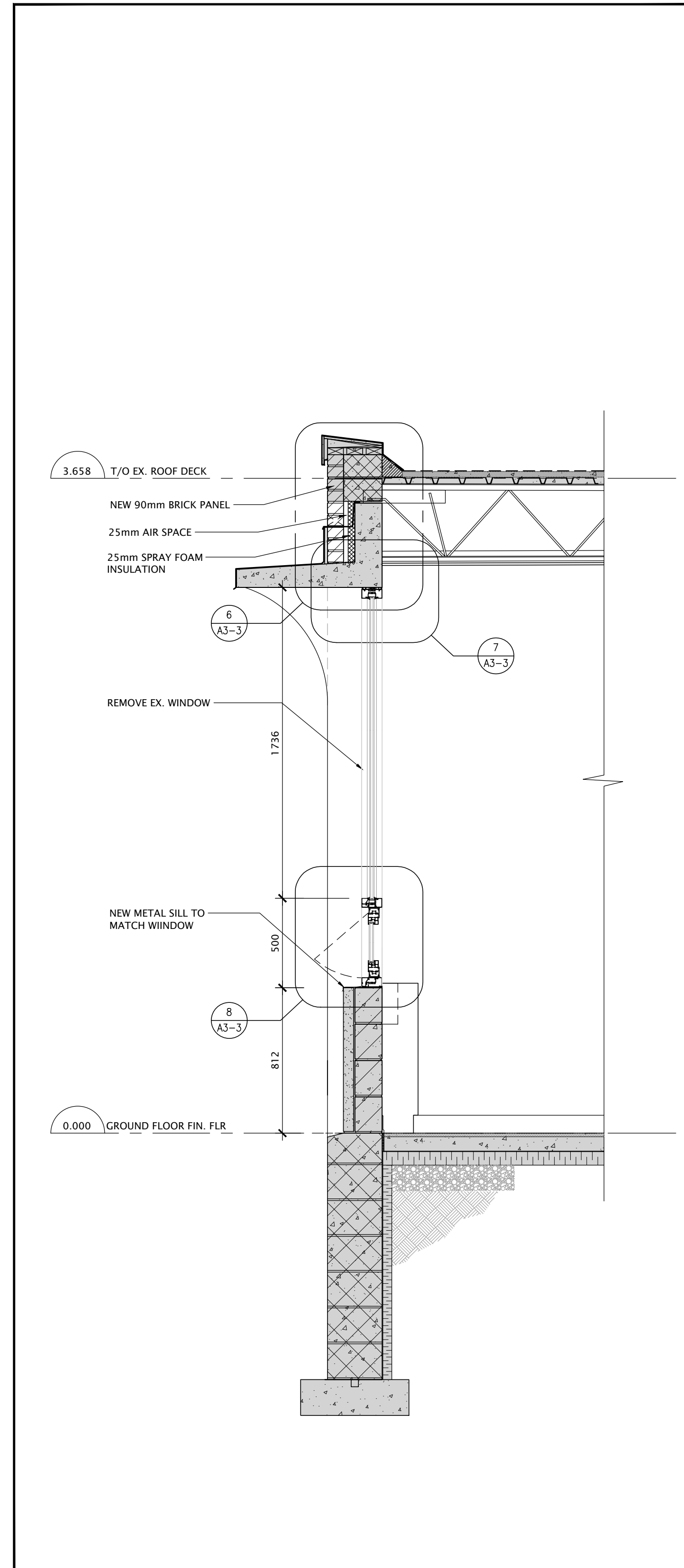
PROJECT NO. A20017	SCALE: 1:100
DRAWN: D.T.	DRAWING NO. REV. A3-1 3
CHECKED: B.F.	DATE: FEB/21



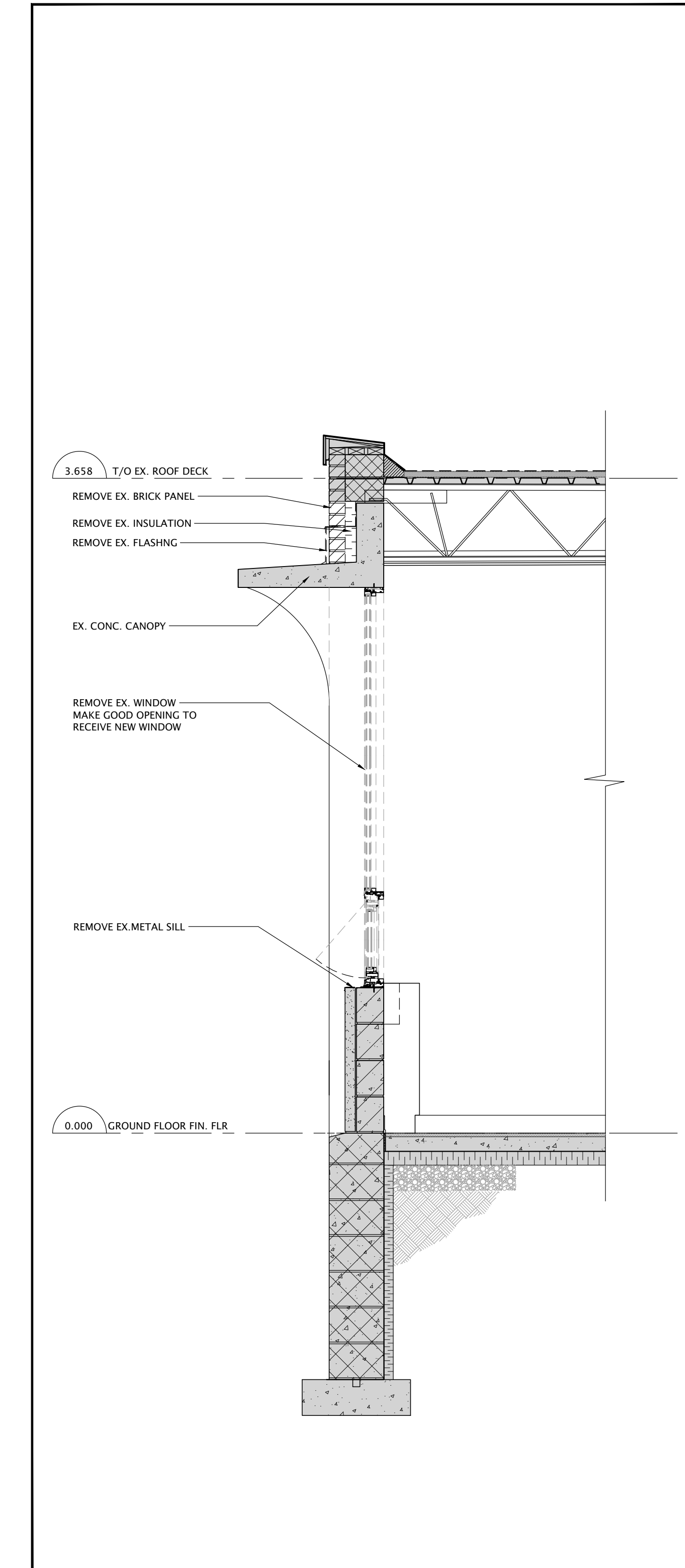
4 WALL SECTION - NEW
SCALE - 1:20



3 WALL SECTION - DEMOLITION
SCALE - 1:20



2 WALL SECTION - NEW
SCALE - 1:20



1 WALL SECTION - DEMOLITION
SCALE - 1:20

NO.	DATE	REVISION
1	27/07/21	RE-ISSUED FOR TENDER
0	27/05/21	ISSUED FOR PERMIT AND TENDER

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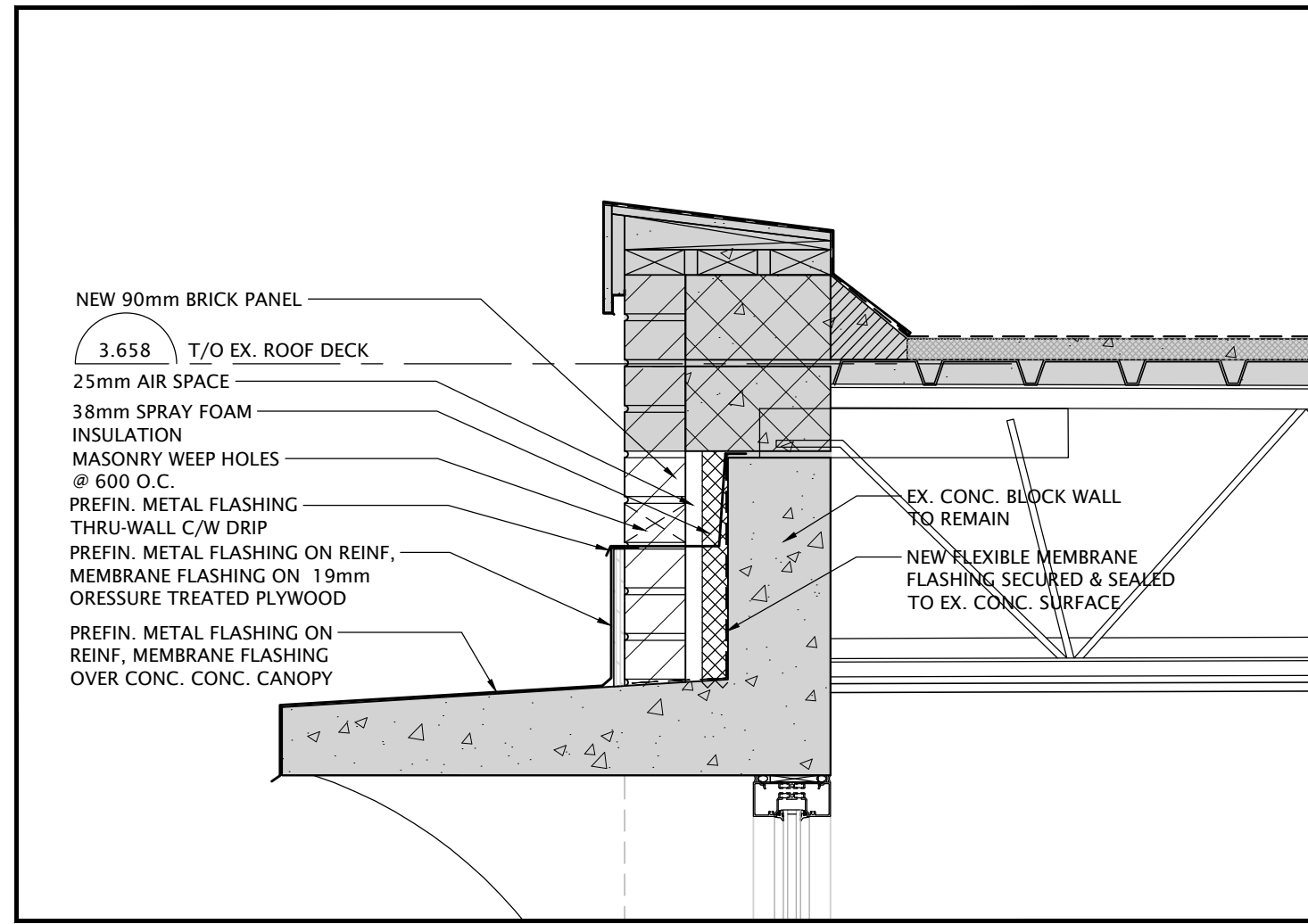
FOREST HEIGHTS C.I.
FAMILY STUDIES RENOVATION,
PARTIAL WINDOW, BRICK, ASPHALT
REPLACEMENT & BF WASHROOM
255 Fischer Hallman Rd.
Kitchener, ON N2M 4R8

DRAWING TITLE:
WALL SECTIONS

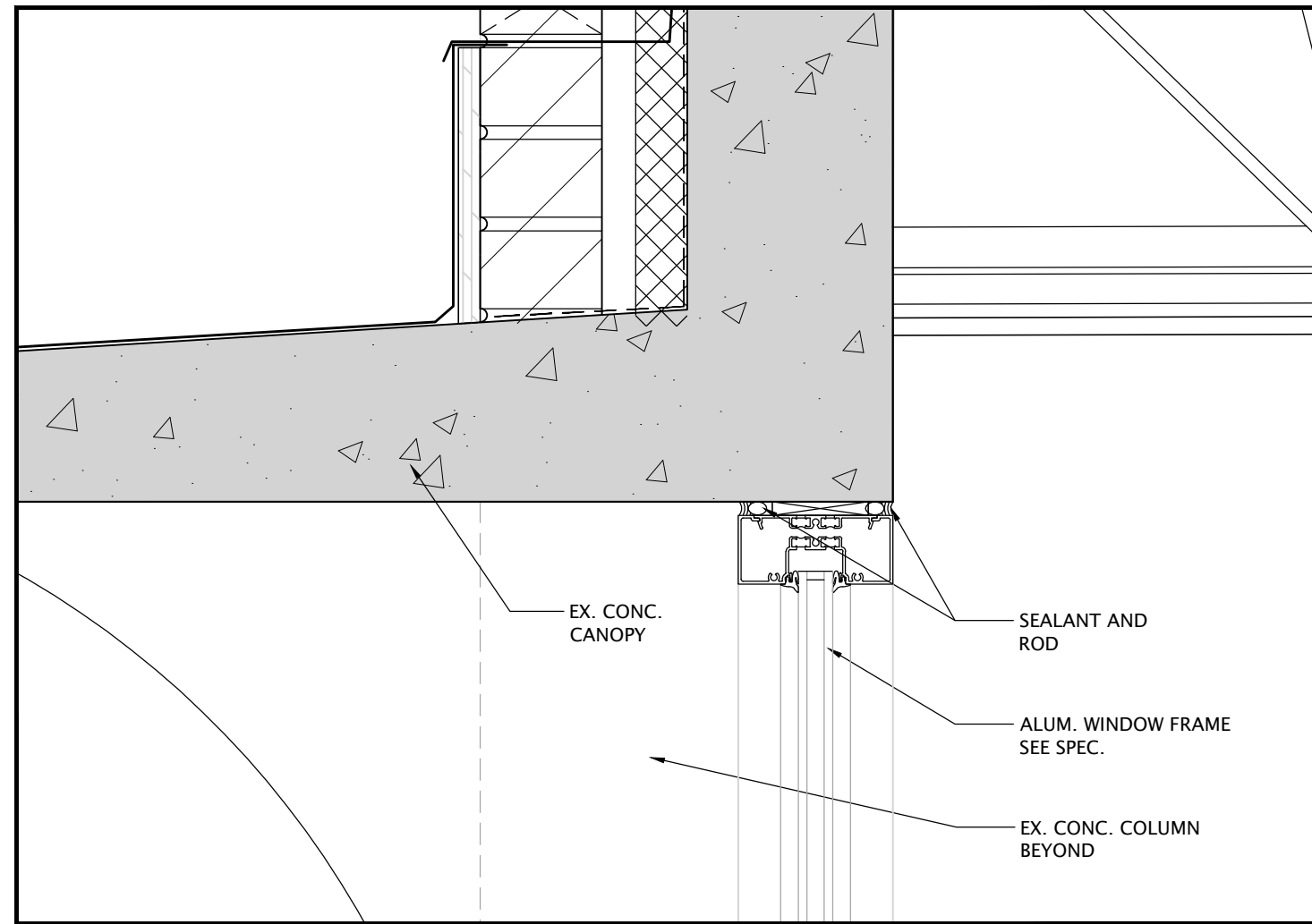
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DRAWN: D.T.	DRAWING NO. REV. A3-2 1
CHECKED: B.F.	DATE: FEB/21

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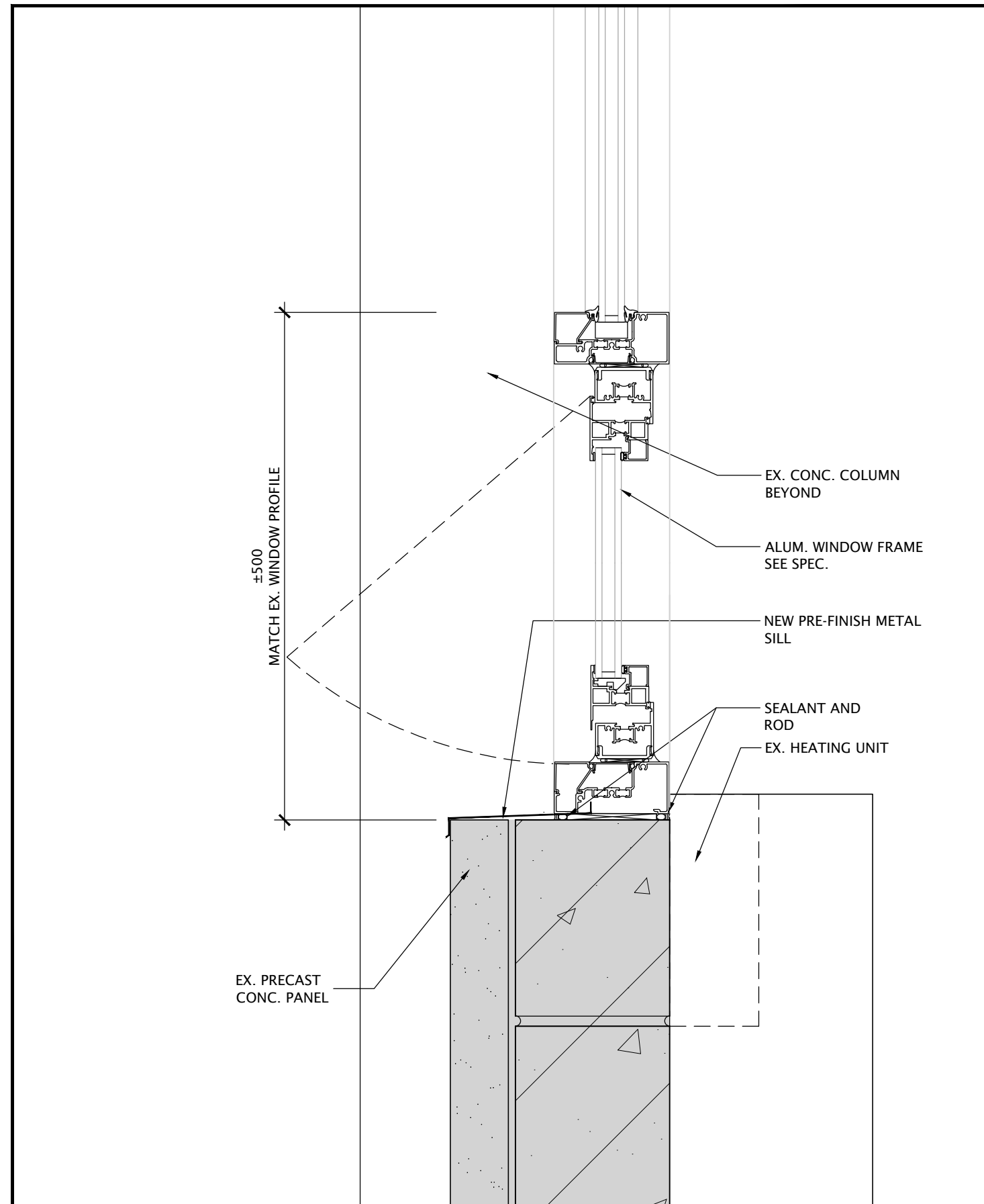
DATE PLOTTED: March 22, 2022



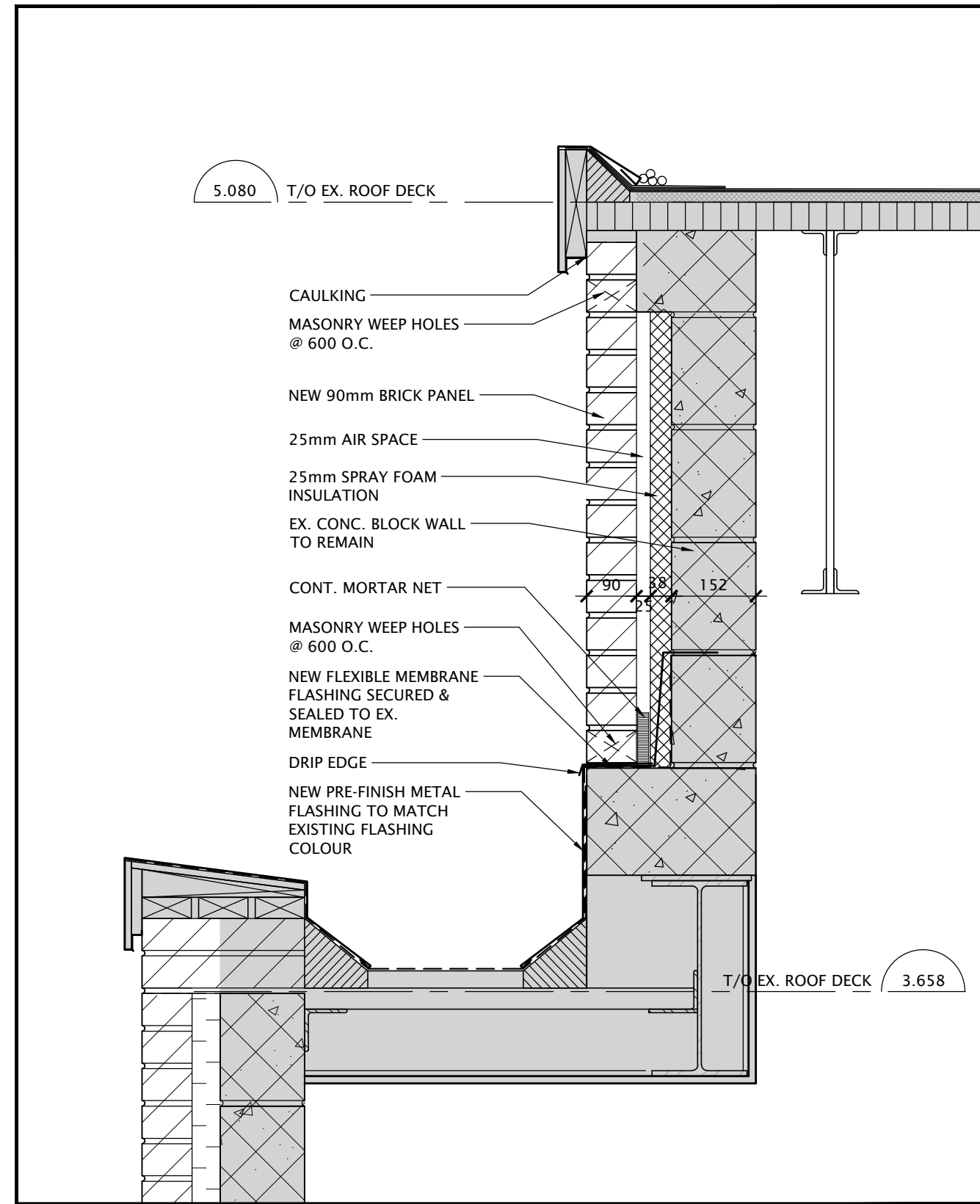
6 DETAIL
A3-3 SCALE - 1:10



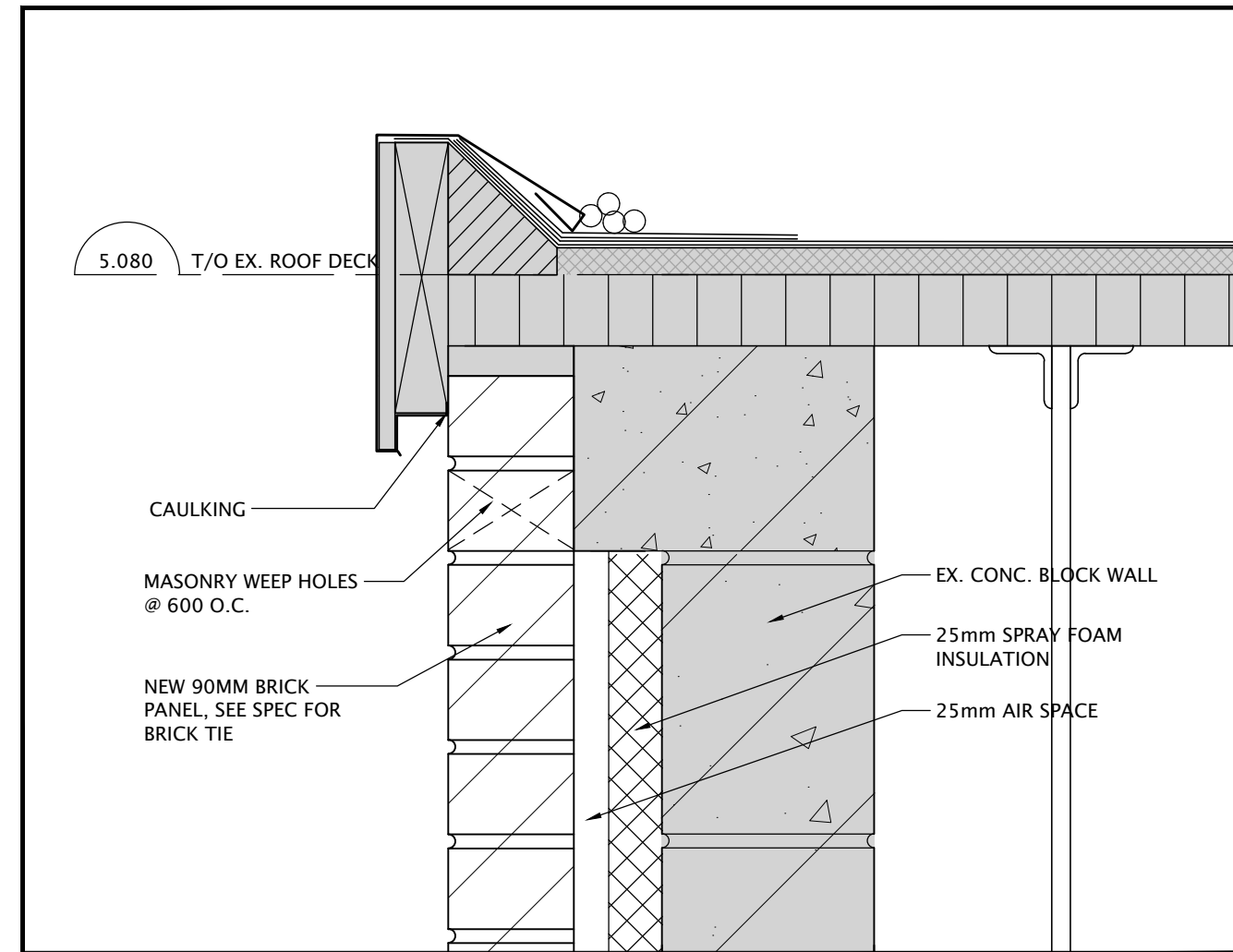
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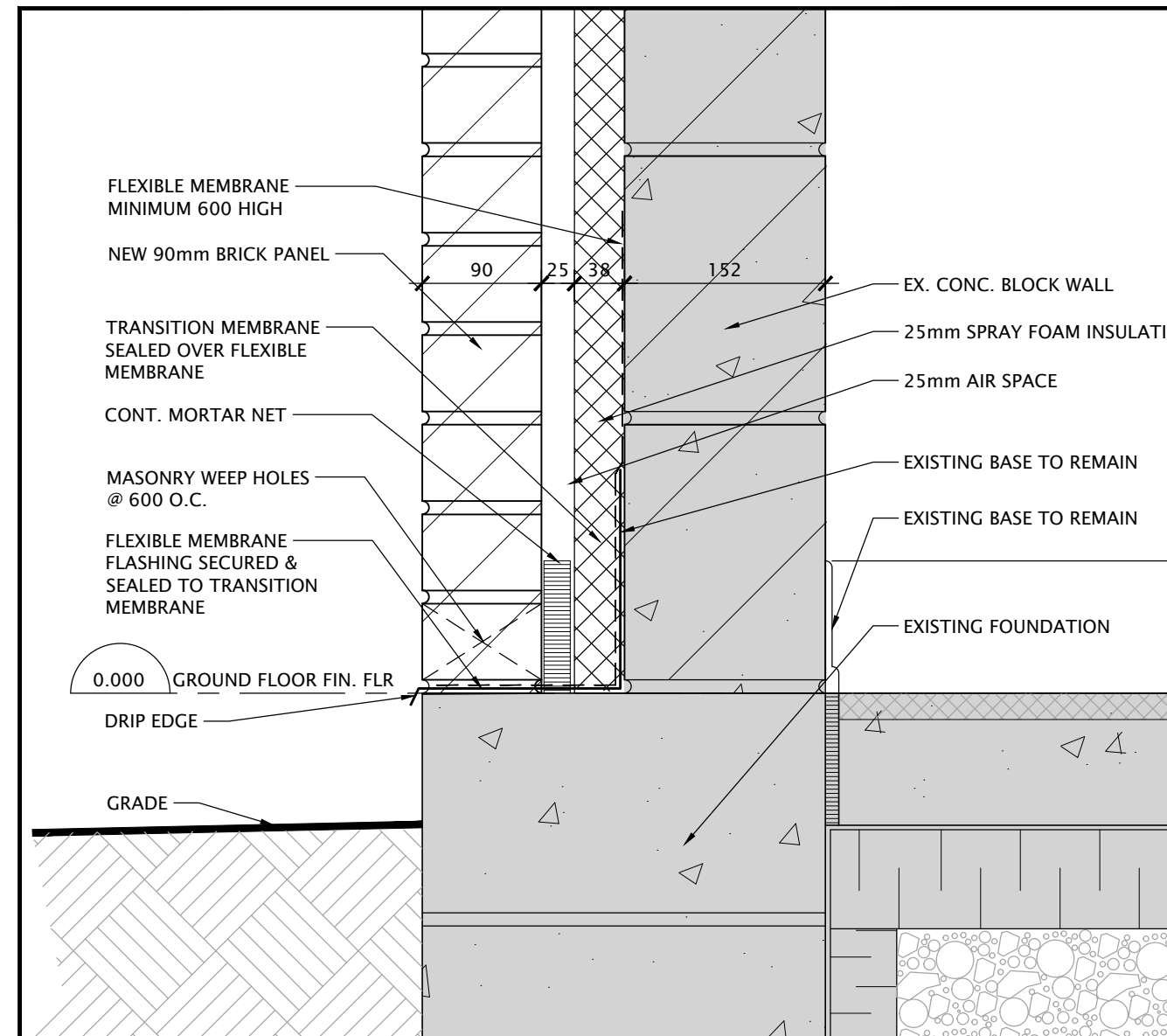
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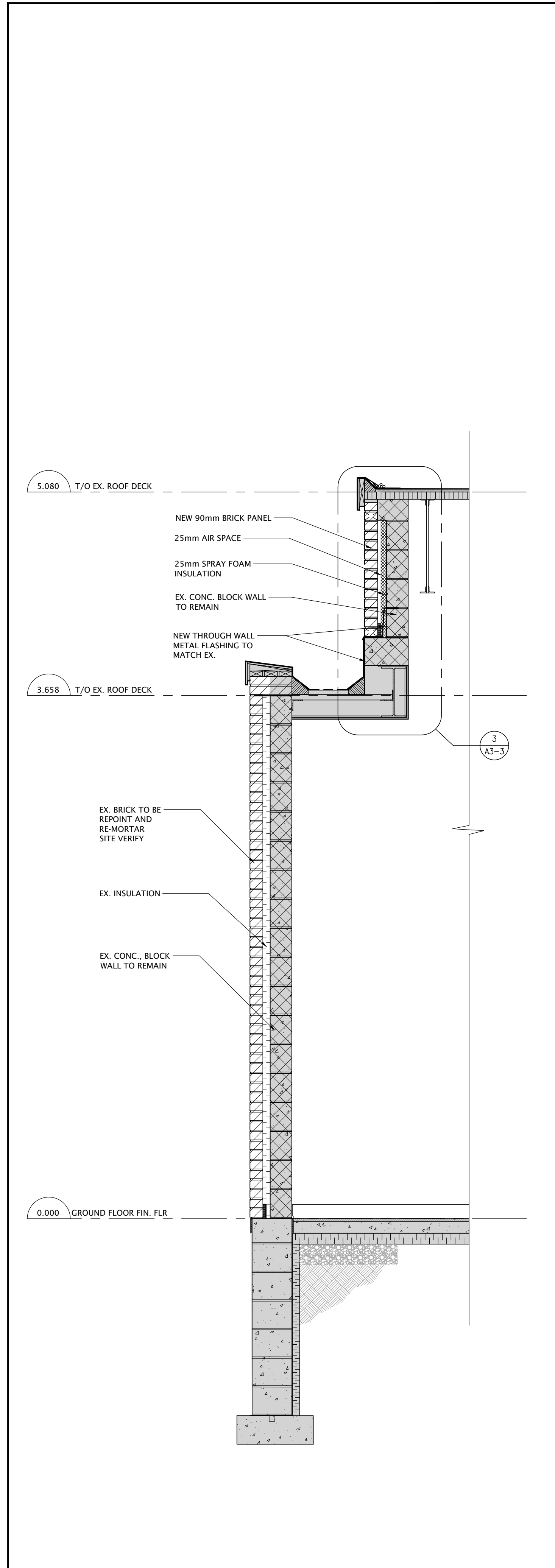
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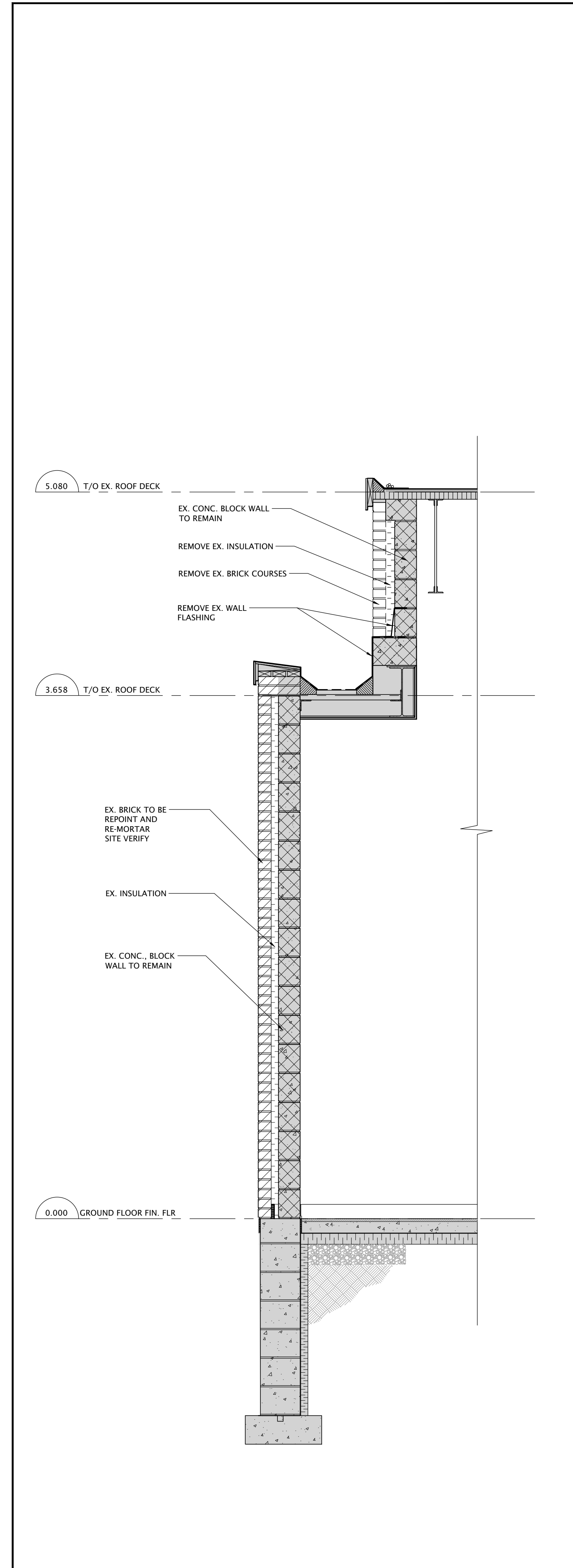
4 DETAIL
A3-3 SCALE - 1:5



5 DETAIL
A3-3 SCALE - 1:5



2 WALL SECTION - NEW
A3-3 SCALE - 1:20



1 WALL SECTION - DEMOLITION
A3-3 SCALE - 1:20

1	21/02/21	RE-ISSUED FOR TENDER	NO DATE
0	21/02/21	ISSUED FOR PERMIT AND TENDER	REVISION

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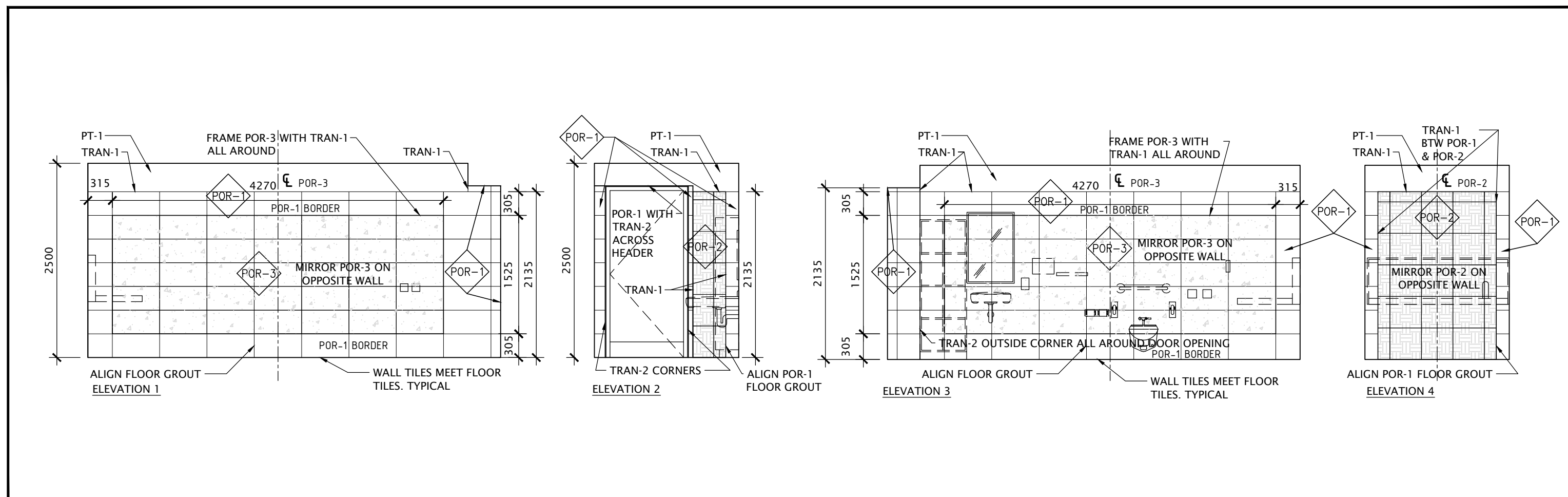


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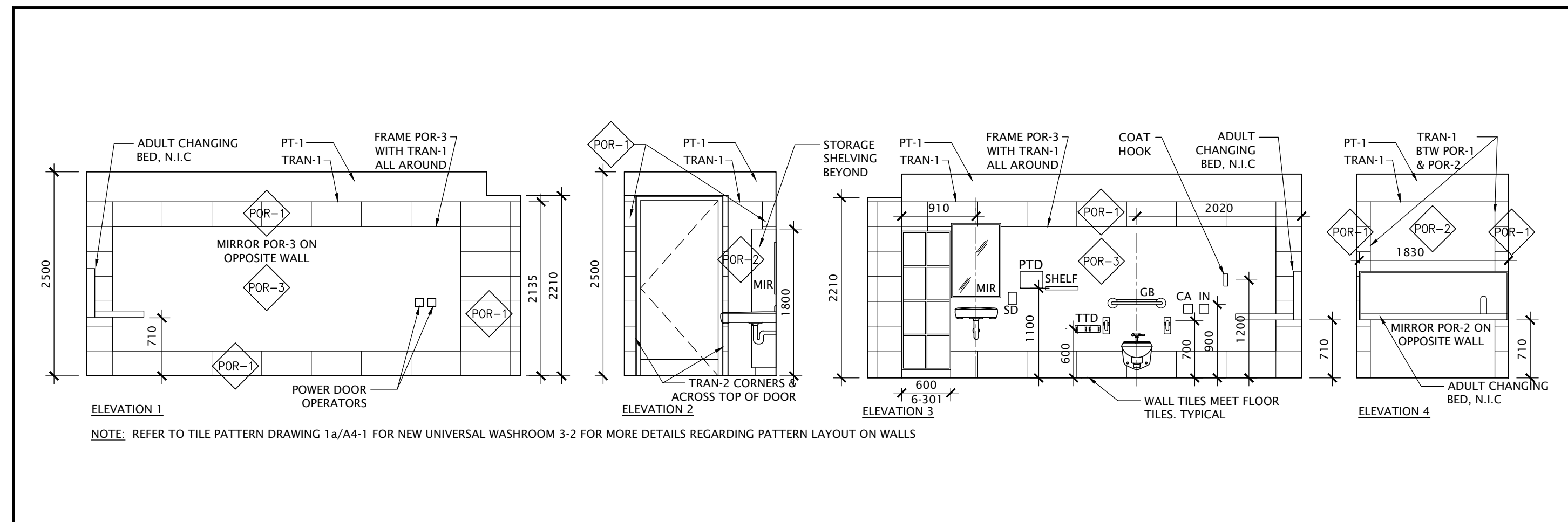


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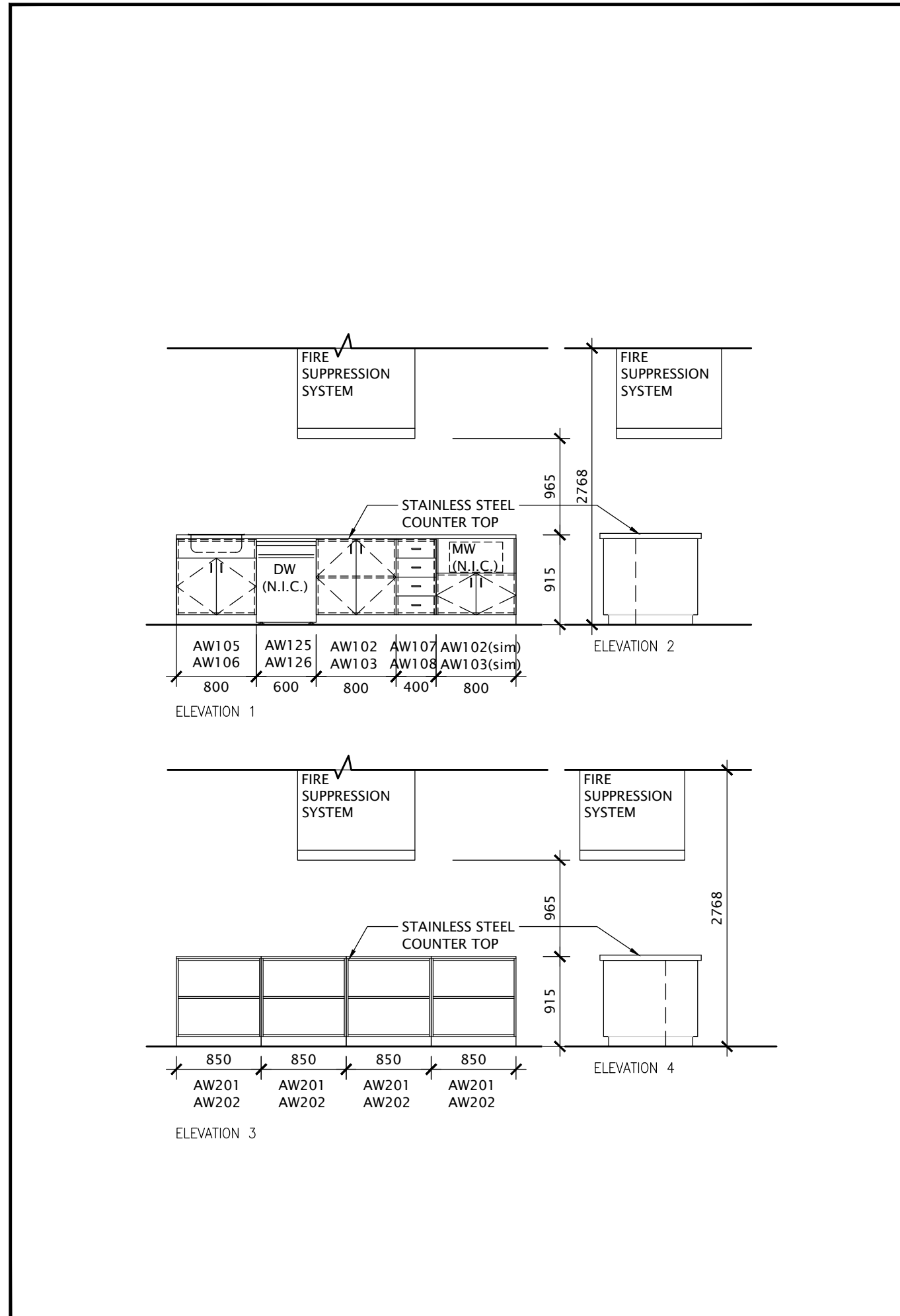
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PROJECT NO: A20017	SCALE: AS NOTED
DRAWN: D.T.	DRAWING NO. REV. A3-3 1
CHECKED: B.F.	DATE: FEB/21



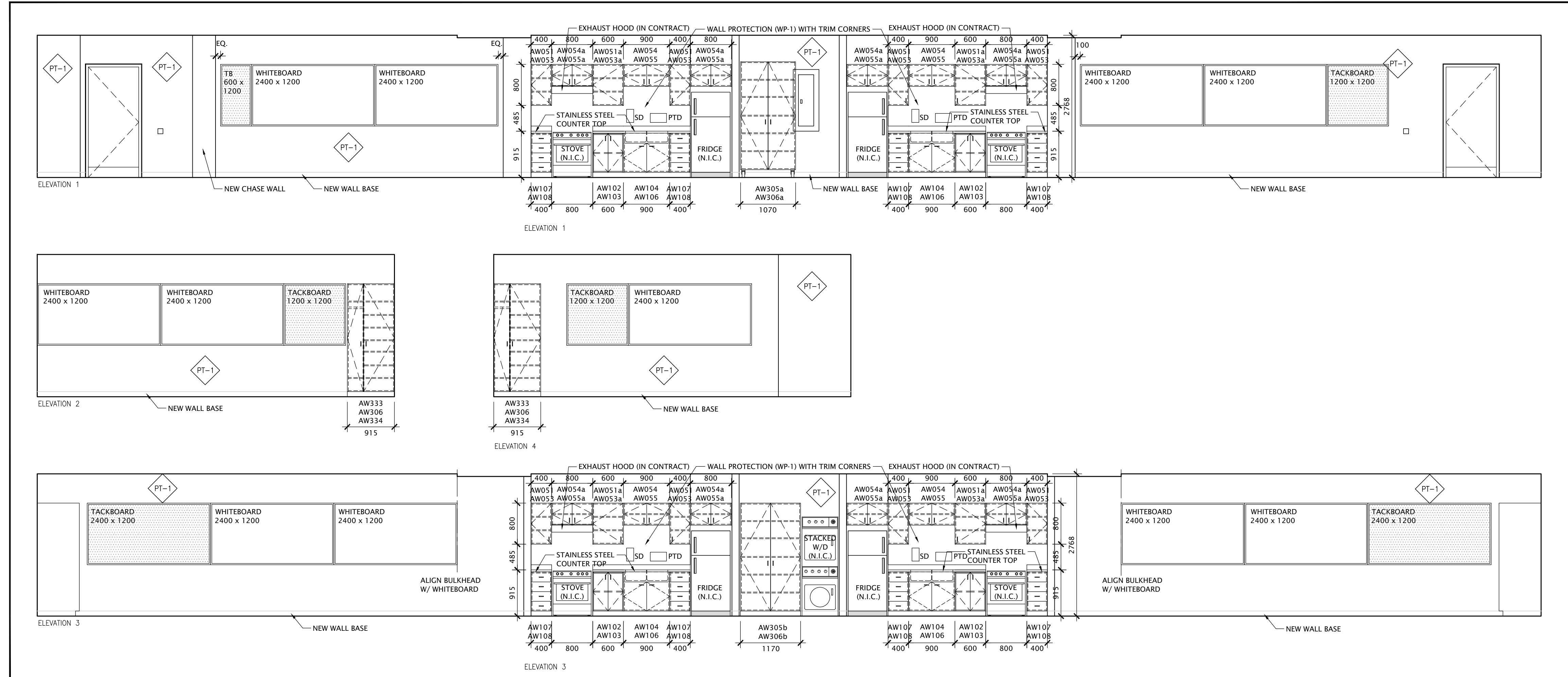
1a TILE PATTERN ELEVATION - UNIVERSAL WASHROOM
SCALE - 1:50



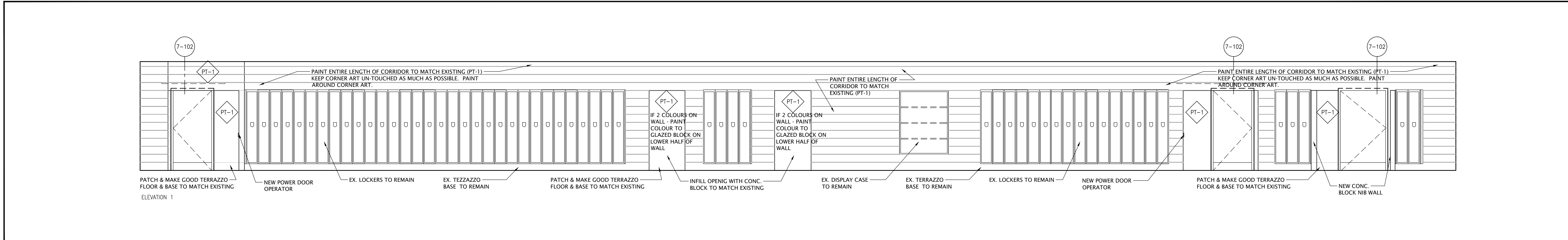
1 INTERIOR ELEVATIONS - UNIVERSAL WASHROOM
SCALE - 1:50



3 INTERIOR ELEVATIONS - TEACHING AREA
SCALE - 1:50



2 INTERIOR ELEVATIONS - FAMILY STUDY
SCALE - 1:50



4 INTERIOR ELEVATIONS - CORRIDOR 6
SCALE - 1:50

NO. DATE:	REVISION:
1	27/07/21 RE-ISSUED FOR TENDER
2	27/09/21 ISSUED FOR PERMIT AND TENDER

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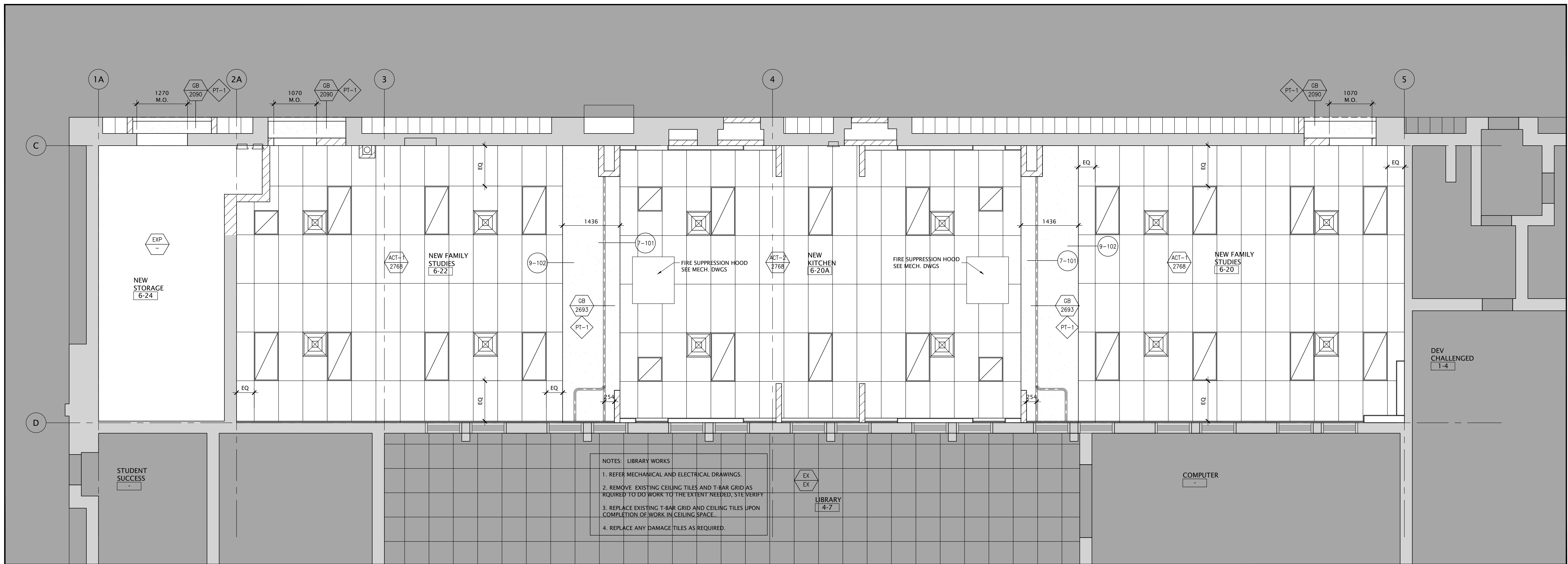


FOREST HEIGHTS C.I.

FAMILY STUDIES RENOVATION,
PARTIAL WINDOW, BRICK, ASPHALT
REPLACEMENT & BF WASHROOM

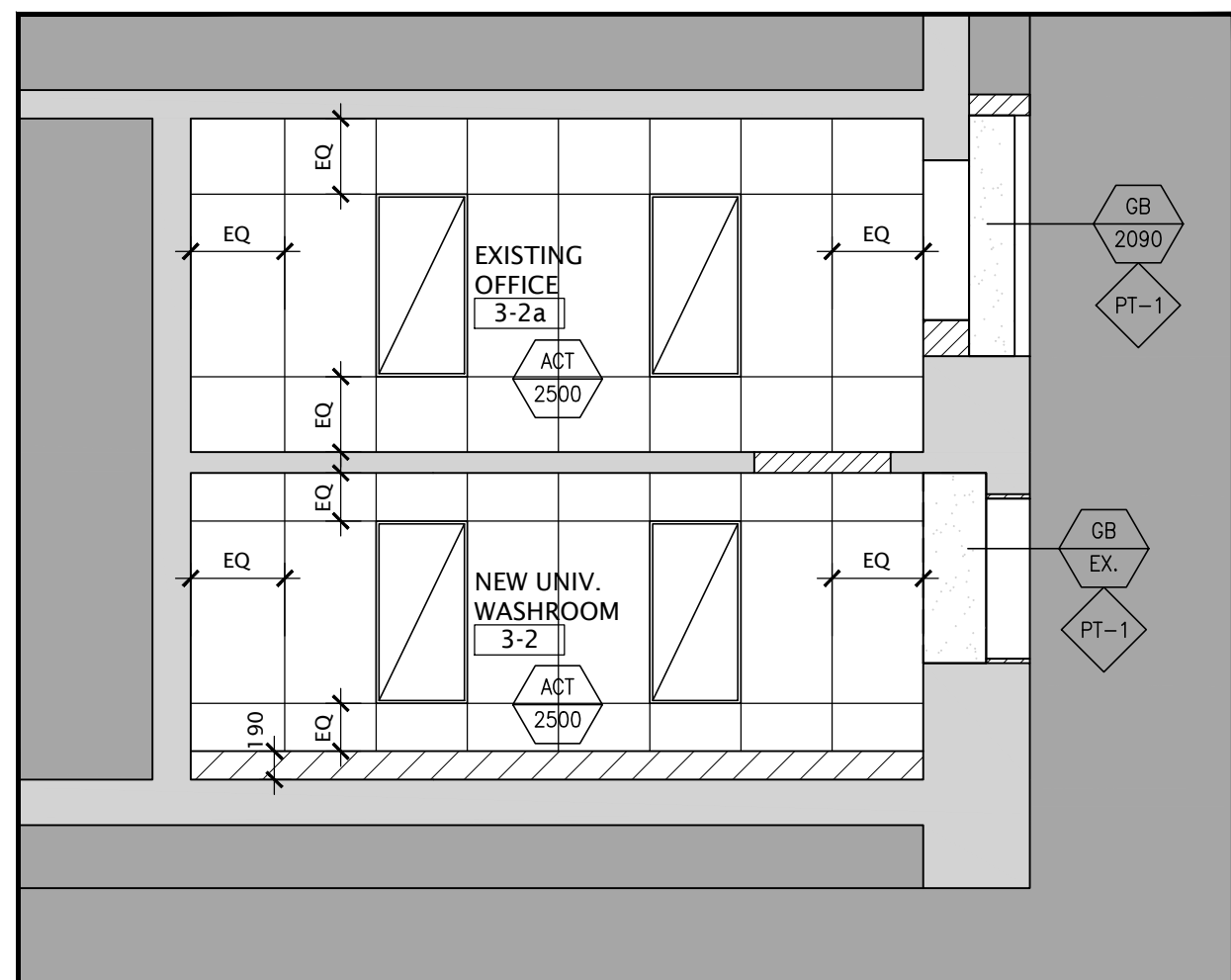
255 Fischer-Hallman Rd.
Kitchener, ON N2M 4R8

DRAWING TITLE: INTERIOR ELEVATIONS FAMILY STUDIES & TECH DESIGN	
PROJECT NO: A20017	SCALE: 1:50
DRAWN: C.C.	DRAWING NO. REV. A4-1 1
CHECKED: B.F.	DATE: FEB/21

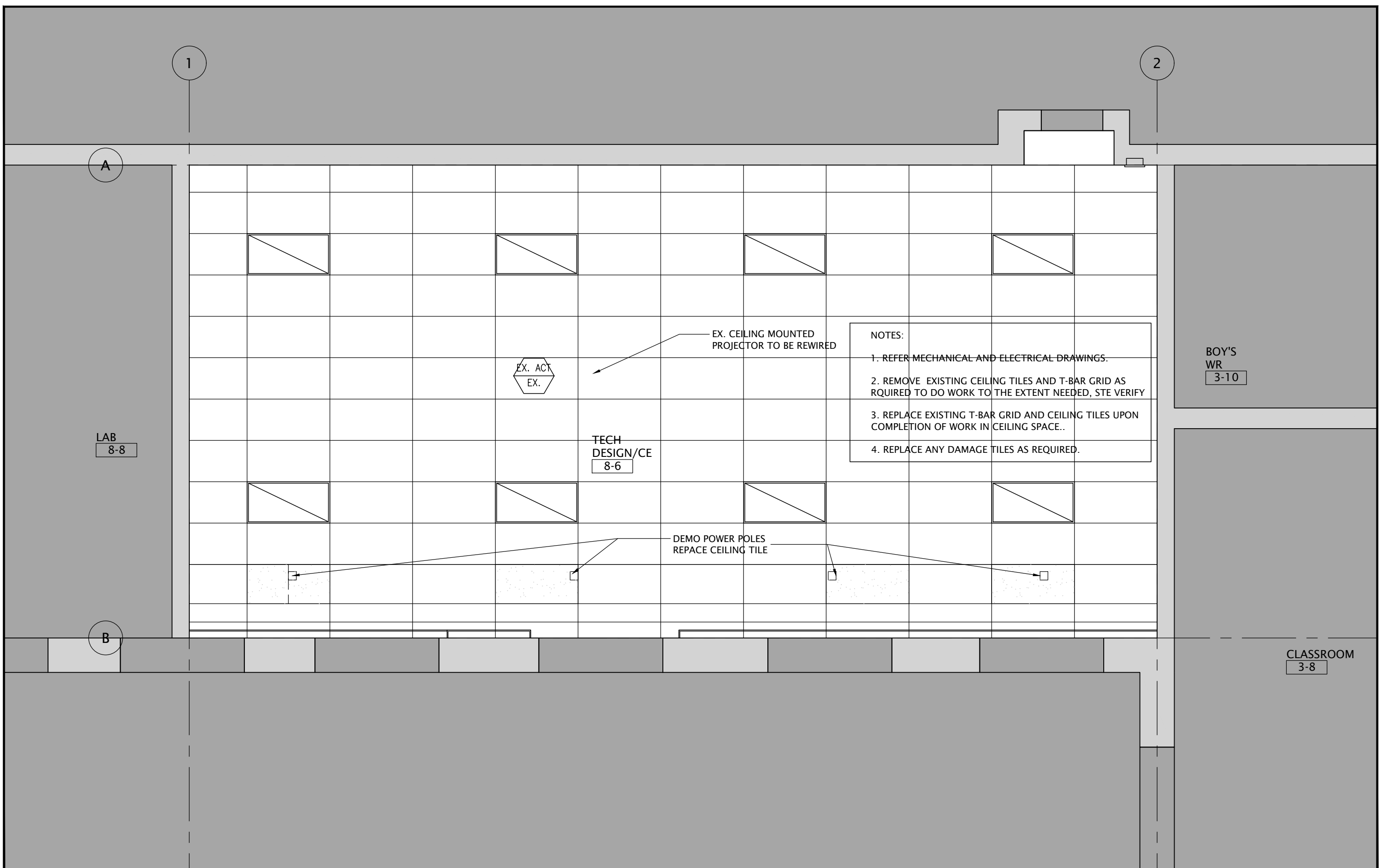


1 PARTIAL FIRST FLOOR PLAN - REFLECTED CEILING PLAN
A6-1 SCALE - 1:50

NOTES: LIBRARY WORKS
 1. REFER MECHANICAL AND ELECTRICAL DRAWINGS.
 2. REMOVE EXISTING CEILING TILES AND T-BAR GRID AS REQUIRED TO DO WORK TO THE EXTENT NEEDED, STE VERIFY
 3. REPLACE EXISTING T-BAR GRID AND CEILING TILES UPON COMPLETION OF WORK IN CEILING SPACE...
 4. REPLACE ANY DAMAGE TILES AS REQUIRED.



3 PARTIAL FIRST FLOOR PLAN - NEW UNIVERSAL WASHROOM
A6-1 SCALE - 1:50



2 PARTIAL FIRST FLOOR PLAN - NEW
A6-1 SCALE - 1:50

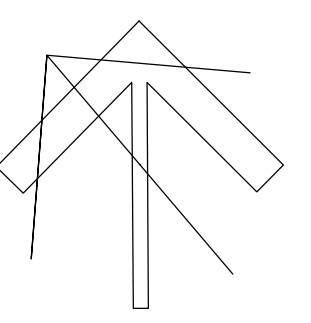
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 1. REFER MECHANICAL AND ELECTRICAL DRAWINGS.
 2. REMOVE EXISTING CEILING TILES AND T-BAR GRID AS REQUIRED TO DO WORK TO THE EXTENT NEEDED, STE VERIFY
 3. REPLACE EXISTING T-BAR GRID AND CEILING TILES UPON COMPLETION OF WORK IN CEILING SPACE...
 4. REPLACE ANY DAMAGE TILES AS REQUIRED.

NO. DATE:	REVISION
0 21/02/18	ISSUED FOR CLIENT'S REVIEW
1 21/09/07	ISSUED FOR PERMIT AND TENDER
2 22/02/24	RE-ISSUED FOR TENDER

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PROJECT NORTH



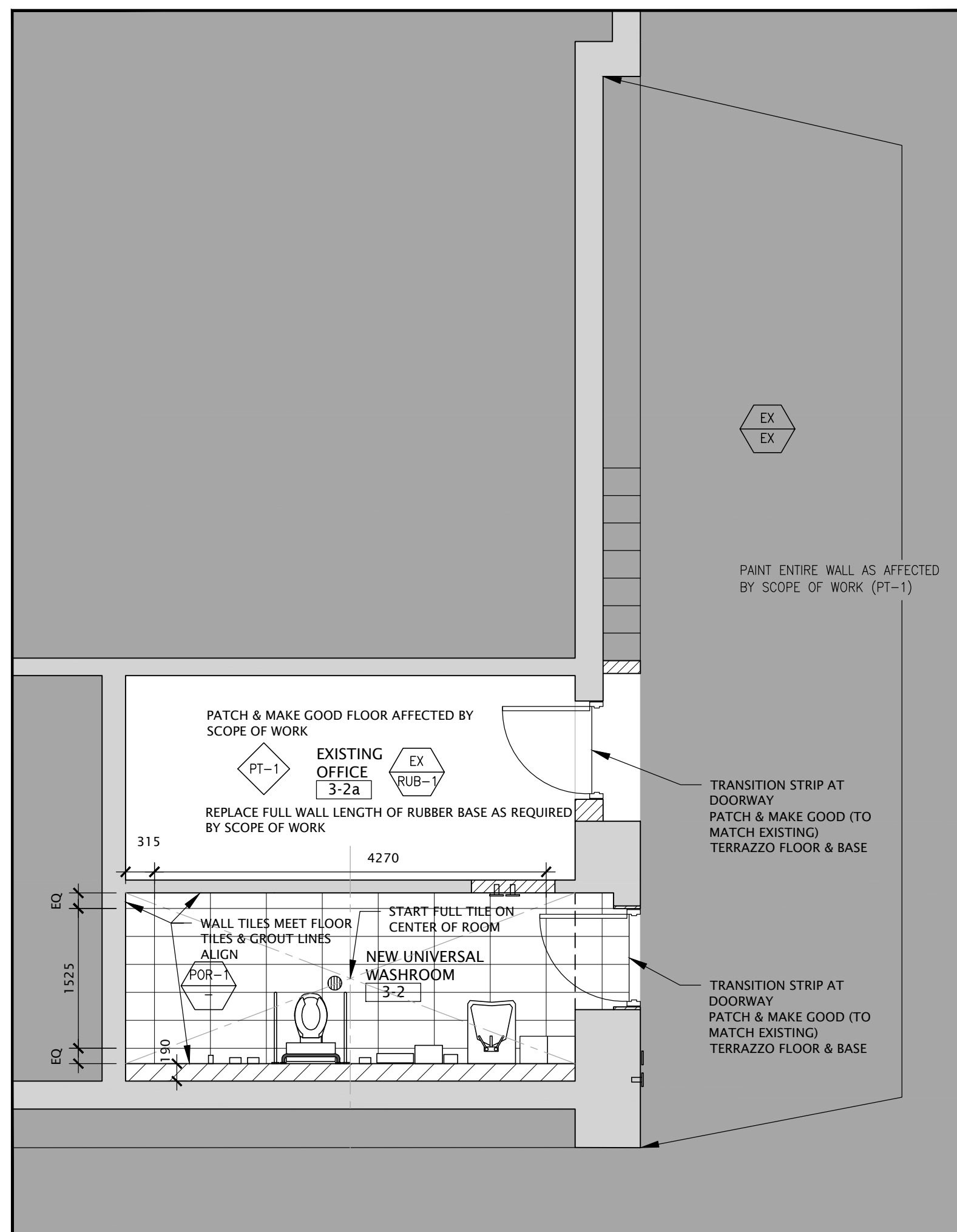
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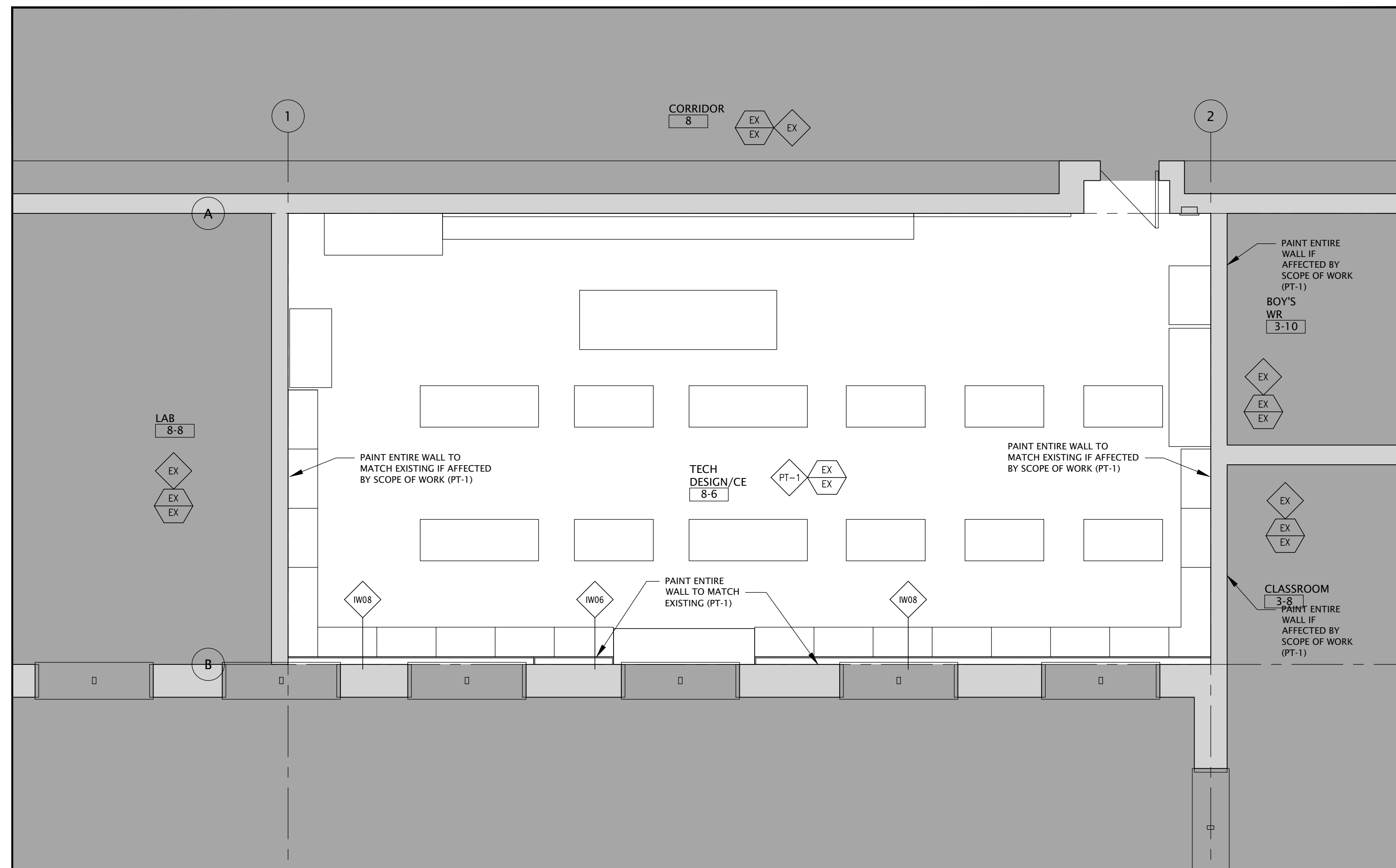
FOREST HEIGHTS C.I.
 FAMILY STUDIES RENOVATION,
 PARTIAL WINDOW, BRICK, ASPHALT
 REPLACEMENT & BF WASHROOM
 255 Fischer-Hallman Rd.
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DRAWING TITLE:
PARTIAL FIRST FLOOR REFLECTED CEILING PLAN

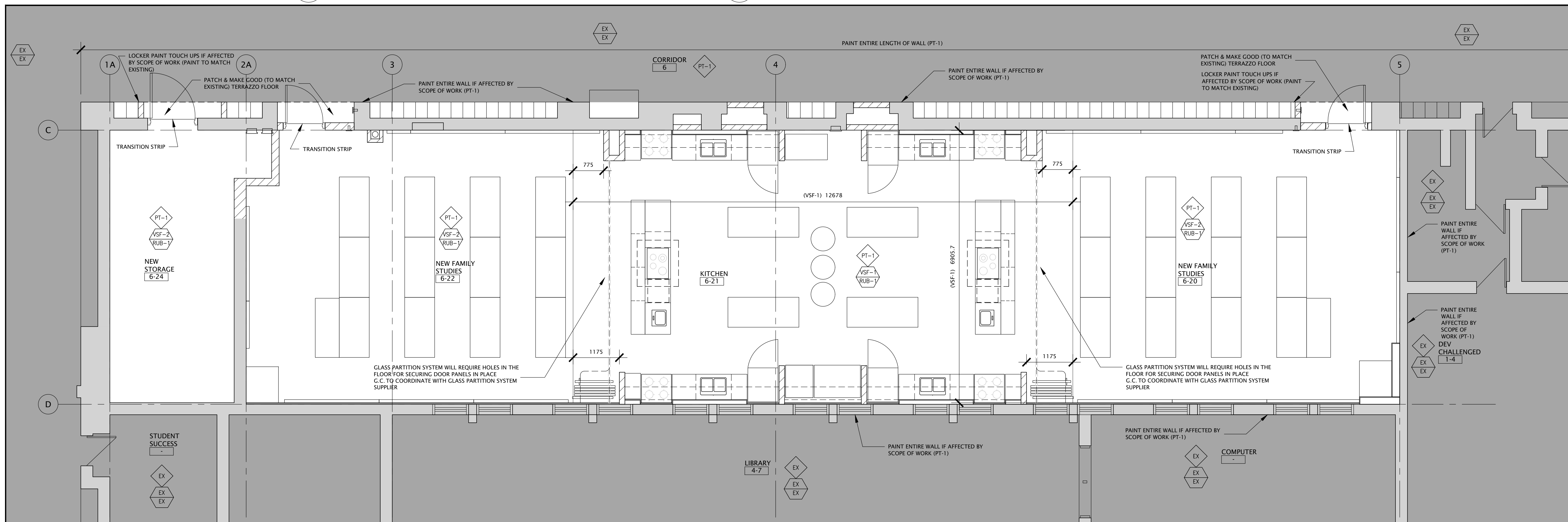
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DRAWN:	D.T.	DRAWING NO.:	A6-1
CHECKED:	B.F.	REV.:	2
DATE:	FEB/21		



3 PARTIAL FIRST FLOOR PLAN - FINISH PLAN
A9-1 SCALE - 1:50 - UNIV. WASHROOM



2 PARTIAL FIRST FLOOR PLAN - FINISH PLAN
A9-1 SCALE - 1:50 - TECH. DESIGN/CE

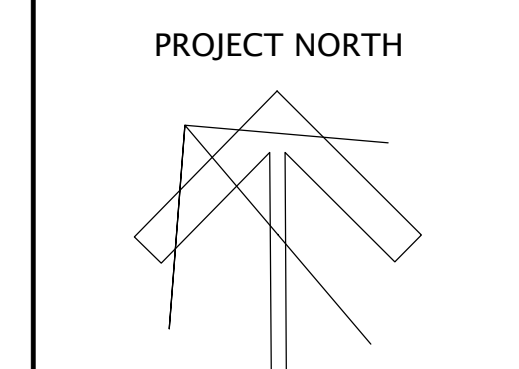


1 PARTIAL FIRST FLOOR PLAN - FINISH PLAN
A9-1 SCALE - 1:50 - FAMILY STUDIES

NO.	DATE	REVISION
1	21/09/07	ISSUED FOR PERMIT AND TENDER
2	22/02/23	RE-ISSUED FOR PERMIT AND TENDER
3	21/02/24	ISSUED FOR CLIENT'S REVIEW

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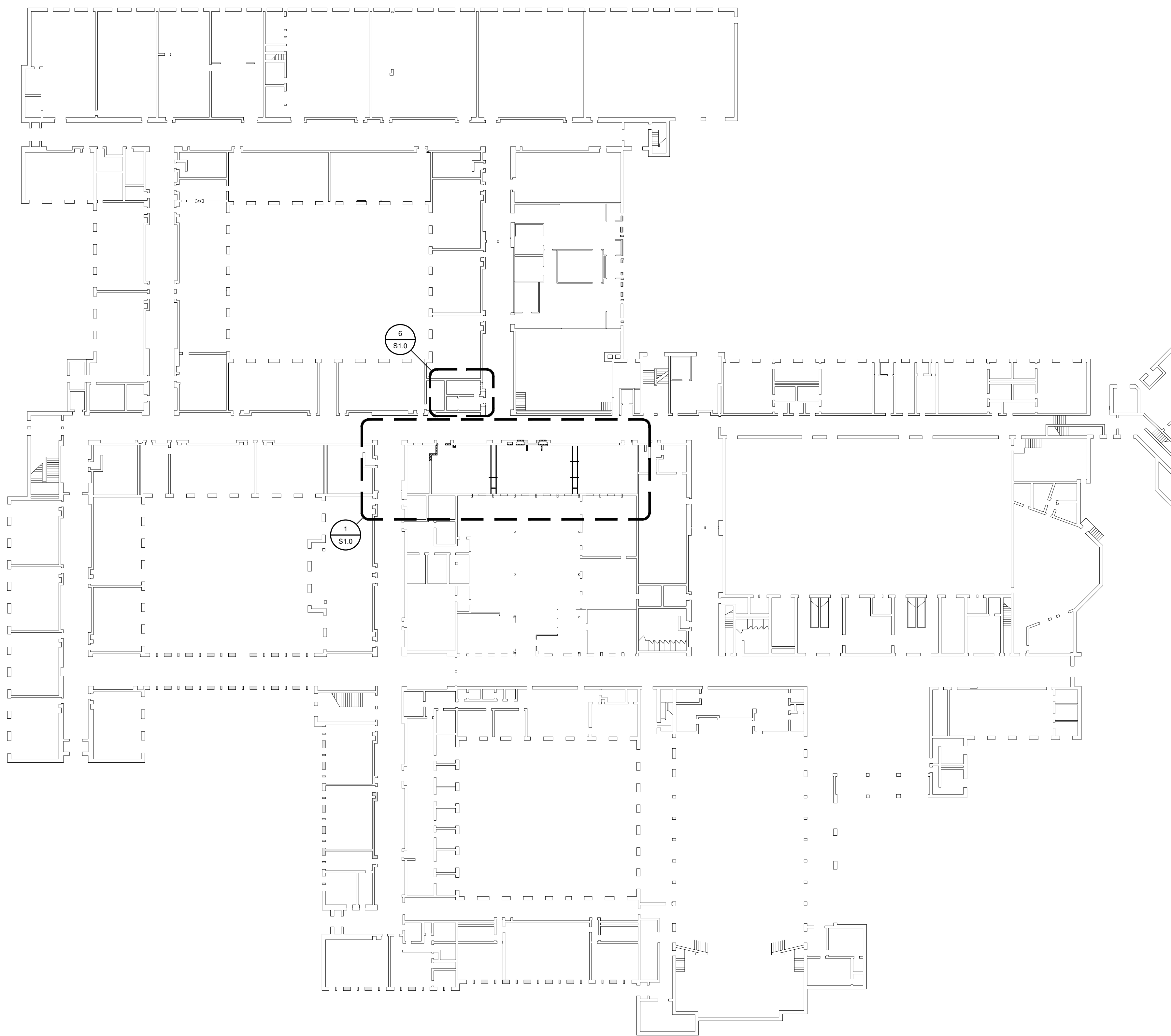


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DRAWING TITLE:
PARTIAL FIRST FLOOR
FINISHES PLAN

PROJECT NO: A20017	SCALE: 1:50
DRAWN: K+	DRAWING NO.: A9-1
CHECKED: K+	REV.: 2
DATE: FEB/21	

FILES: A20017- A9-1 FINISH - 1ST PLAN



KEYPLAN N.T.S.

CONSTRUCTION NOTES:
FOR TENDER #7274-RW-22

A. GENERAL

1. ALL WORK SHALL CONFORM TO THE ONTARIO BUILDING CODE AND ALL STANDARDS REFERENCED WITHIN, LOCAL REGULATIONS AND BYLAWS, AND THE OCCUPATIONAL HEALTH AND SAFETY ACT FOR CONSTRUCTION PROJECTS. THE LATEST VERSIONS OF STANDARDS SHALL APPLY.
2. READ THESE DRAWINGS IN CONJUNCTION WITH ALL RELATED CONTRACT DOCUMENTS AND CONSULTANT DRAWINGS.
3. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS IN RELATION TO THE DRAWINGS AND NOTIFY THE ENGINEER TO ALL DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
4. DRAWINGS ARE NOT TO BE SCALED.
5. THE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE WITH THE PARTY WHOM THE ENGINEER HAS ENTERED INTO CONTRACT. THERE ARE NO REPRESENTATIONS MADE TO ANY PARTY WITH WHOM THE ENGINEER HAS NOT ENTERED INTO CONTRACT.
6. THE CONTRACTOR SHALL RETAIN AN INDEPENDENT TESTING AND INSPECTION COMPANY TO ENSURE THAT THE WORK IS DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS INCLUDING COMPACTION TESTING, REINFORCING STEEL PLACEMENT, CONCRETE TESTING AND STRUCTURAL STEEL.
7. THE ENGINEER SHALL BE GIVEN MINIMUM 24 HOURS NOTICE BY THE CONTRACTOR FOR ALL CONSTRUCTION REVIEWS. SITE VISITS AND REVIEWS BY THE ENGINEER OR HIS REPRESENTATIVE ARE INTENDED FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THE REVIEWS SHALL NOT MEAN THAT THE ENGINEER HAS SEEN ALL CONSTRUCTION PROCEDURES. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR ERRORS AND OMISSIONS AND FOR MEETING ALL THE REQUIREMENTS OF THE CONSTRUCTION AND CONTRACT DOCUMENTS.
8. THE CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR CONSTRUCTION LOADS AND TEMPORARY BRACING TO ENSURE SAFETY AND THE BUILDING IS PLUMB AND IN TRUE ALIGNMENT AT ALL PHASES OF CONSTRUCTION AS PER O REG 213/91. ALL BRACING MEMBERS SHOWN ON THE DRAWINGS ARE DESIGNED FOR THE FINISHED STRUCTURE AND MAY NOT BE SUFFICIENT FOR ERECTION PURPOSES. SHORING AND BRACING IS REQUIRED UNTIL PROPOSED STRUCTURE IS PROPERLY IN PLACE. SHORING AND BRACING SHALL BE DESIGNED, REVIEWED AND APPROVED BY A PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL BE SUBMITTED WITH P ENG'S STAMP FOR OUR REVIEW PRIOR TO CONSTRUCTION.
9. NO SUBSTITUTIONS FROM THE SPECIFIED PRODUCTS AND MATERIALS ARE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

TEST	COMMENTS
STRUCTURAL STEEL CONNECTIONS	INSPECT ALL FIELD WELDS

ALL TESTING TO BE COMPLETED BY A CERTIFIED INDEPENDENT TESTING AND INSPECTION COMPANY. COPIES OF ALL REPORTS ARE TO BE FORWARDED TO THE ENGINEER FOR REVIEW.

B. STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST VERSION OF CAN/CSA-S16 AND THE CBC CODE OF STANDARD PRACTICE.
2. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST VERSION OF CAN/CSA G40.20, G40.21 GRADE 350W CLASS C FOR H.S.S., G40.21 GRADE 350W FOR W SHAPE SECTIONS AND G40.21 GRADE 350W FOR CHANNELS, ANGLES AND MISCELLANEOUS MET.
3. BOLTED CONNECTIONS SHALL USE GRADE A325 BOLTS.
4. ANCHOR BOLTS SHALL BE FABRICATED USING STEEL ROD CONFORMING TO THE LATEST VERSION OF CSA G40.21 GRADE 300W.
5. WELDING SHALL CONFORM TO CSA W58 AND CSA W47 DIVISION 1 OR DIVISION 2.1 BY THE CANADIAN WELDING BUREAU. WELDING SHALL BE COMPLETED BY CWB CERTIFIED FABRICATOR AND ERECTOR TO THE CSA STANDARDS W178.1 AND W178.2.
6. WHERE FORCES ARE NOT SHOWN ON THE DRAWINGS BEAM REACTIONS SHALL BE 1/2 THE TOTAL UNIFORM DISTRIBUTED FACTORED LOADS NOTED IN THE BEAM LOAD TABLES OF PART 5 OF THE CBC'S HANDBOOK OF STEEL CONSTRUCTION. COLUMN BEARING GROUT SHALL BE 40 MPa MINIMUM, NON-SHRINK AND 38mm (1 1/2") MINIMUM THICK.
7. STRUCTURAL STEEL MEMBERS SHALL NOT BE SPLICED WITHOUT THE APPROVAL OF THE ENGINEER.
8. STEEL BEAMS AND LINTELS SHALL HAVE MINIMUM 200mm (8") BEARING ON MASONRY UNLESS OTHERWISE NOTED. WELD BEAMS AND LINTELS TO BEARING PLATES WHERE PROVIDED WITH MINIMUM 4.8mm x 50mm (3/16" x 2") FILLET WELD EACH SIDE.
9. ALL STRUCTURAL STEEL IS TO BE SHOP PRIME PAINTED UNLESS NOTED OTHERWISE. STRUCTURAL STEEL WHICH IS TO BE PROTECTED WITH SPRAY APPLIED FIREPROOFING IS TO BE KEPT CLEAN AND UNCOATED. STRUCTURAL STEEL EXPOSED TO WEATHER IS TO BE HOT DIP GALVANIZED CONFORMING TO THE LATEST VERSION OF CAN/CSA-G164. ALL COATINGS ARE TO BE TOUCHED UP ON SITE WITH APPROVED PAINT FOR PRIMED STEEL AND ZINC RICH PAINT FOR GALVANIZED STEEL.
10. ALL JOISTS ARE TO BE CAMBERED FOR FULL DEAD LOAD DEFLECTION.
11. TO FACILITATE THE MECHANICAL AND ELECTRICAL INSTALLATIONS PANEL POINTS OF JOISTS ARE TO LINE UP JOIST TO JOIST WITHIN SIMILAR AREAS.
12. ALL BUILDING MATERIALS AND EQUIPMENT SUPPORTED BY OPEN WEB STEEL JOISTS ARE TO BE CONNECTED AT JOIST PANEL POINTS.

C. LIGHT GAUGE STRUCTURAL STEEL FRAMING

1. DESIGN AND INSTALLATION OF COLD FORM STEEL FRAMING TO CONFORM TO THE LATEST VERSION OF CAN/CSA-136.
2. DESIGN OF COLD FORM STEEL FRAMING TO BE AS PER THE GRAVITY AND LATERAL LOADS SPECIFIED ON THE DRAWINGS AND AS PER THE ONTARIO BUILDING CODE. FOR STUDS BRACING MASONRY VENEER THE DEFLECTION CRITERIA SHALL CONFORM TO THE LATEST VERSION OF CSA S304.1.
3. THE COLD FORM STEEL FRAMING DESIGN ENGINEER SHALL VISIT THE SITE TO PROVIDE FINAL CONSTRUCTION CERTIFICATION FOR THE WORK.
4. COLD FORM STEEL MEMBERS SHALL CONFORM TO THE LATEST VERSION OF ASTM A653. MEMBERS WITH THICKNESS OF 18 Ga. OR LIGHTER TO BE MINIMUM 230 MPa (33 ksi) YIELD STRENGTH. MEMBERS HEAVIER THAN 18 Ga. TO BE MINIMUM 345 MPa (50 ksi).
5. PROVIDE BRICK TIES WITH CORROSION RESISTANCE CONFORMING TO THE MINIMUM REQUIREMENTS OF THE LATEST VERSION OF CAN/CSA A370 - CONNECTIONS FOR MASONRY.

SHOP DRAWINGS REQUIRED		
NAME	P ENG. STAMP	MINIMUM CERTIFICATION REQUIREMENTS:
STRUCTURAL STEEL	YES	CONNECTIONS ONLY
STEEL STUD FRAMING	YES	MATERIALS, CONNECTIONS, BRACING AND BRIDGING

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS MUST BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO ISSUING TO THE ENGINEER FOR REVIEW.

NO.	DATE	REVISION
2	2022/03/23	RE-ISSUED FOR TENDER
1	2021/05/07	ISSUED FOR PERMIT AND TENDER

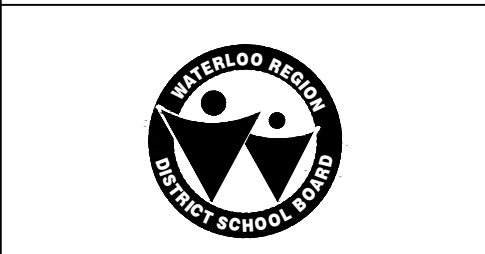
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826 KING STREET NORTH, UNIT 20
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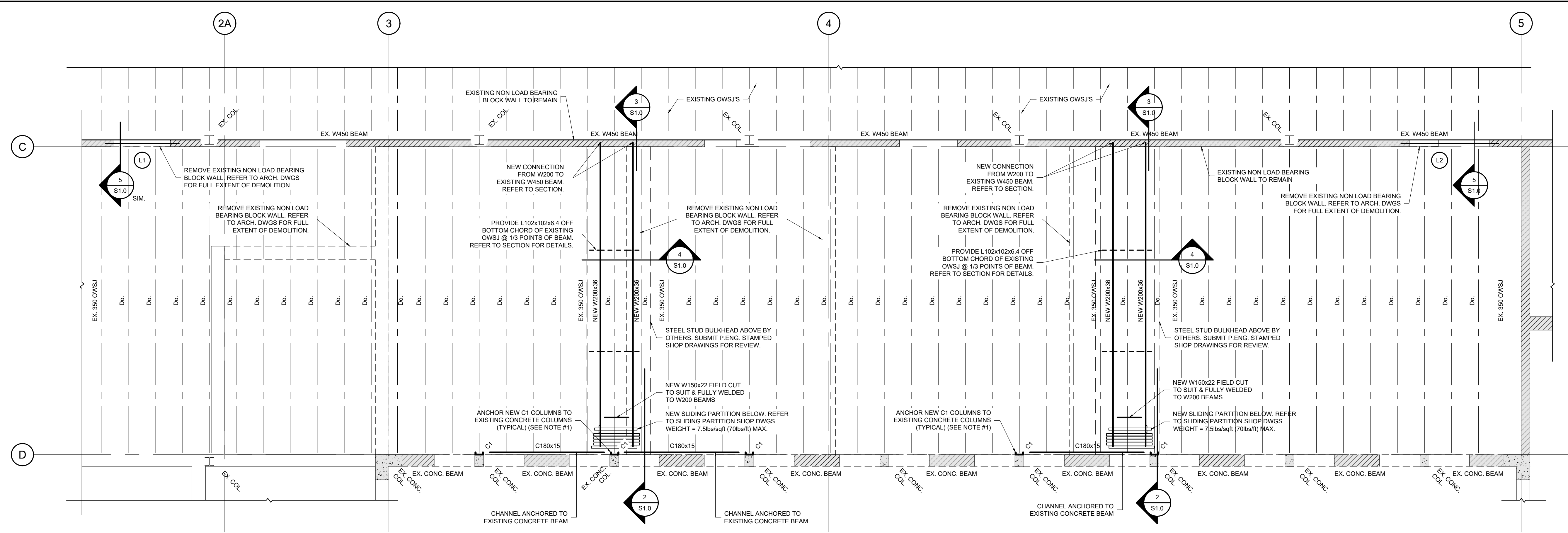


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FAMILY STUDIES
RENOVATION
255 Fischer-Hallman Rd.
Kitchener, ON N2M 4X8

DRAWING TITLE:
KEY PLAN, GENERAL NOTES & DETAILS

PROJECT NO:	SCALE:
10747-200	AS NOTED
DRAWN:	DRAWING NO. REV.
RGW	
CHECKED:	S0.0 1
DAW	
DATE:	
MARCH 2022	

DATE PLOTTED: Wednesday, March 23, 2022

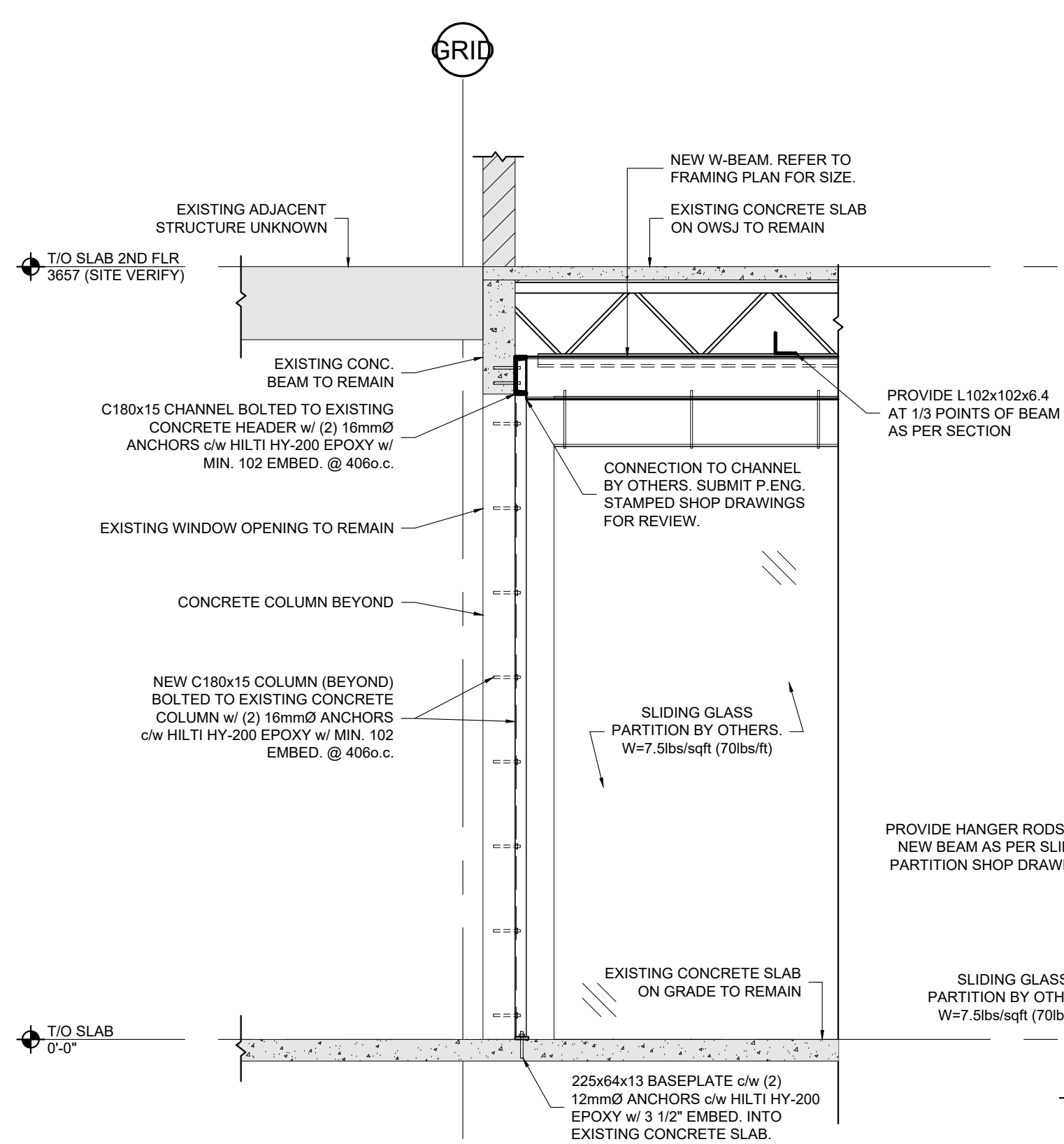


1 PARTIAL SECOND FLOOR FRAMING PLAN 1:50

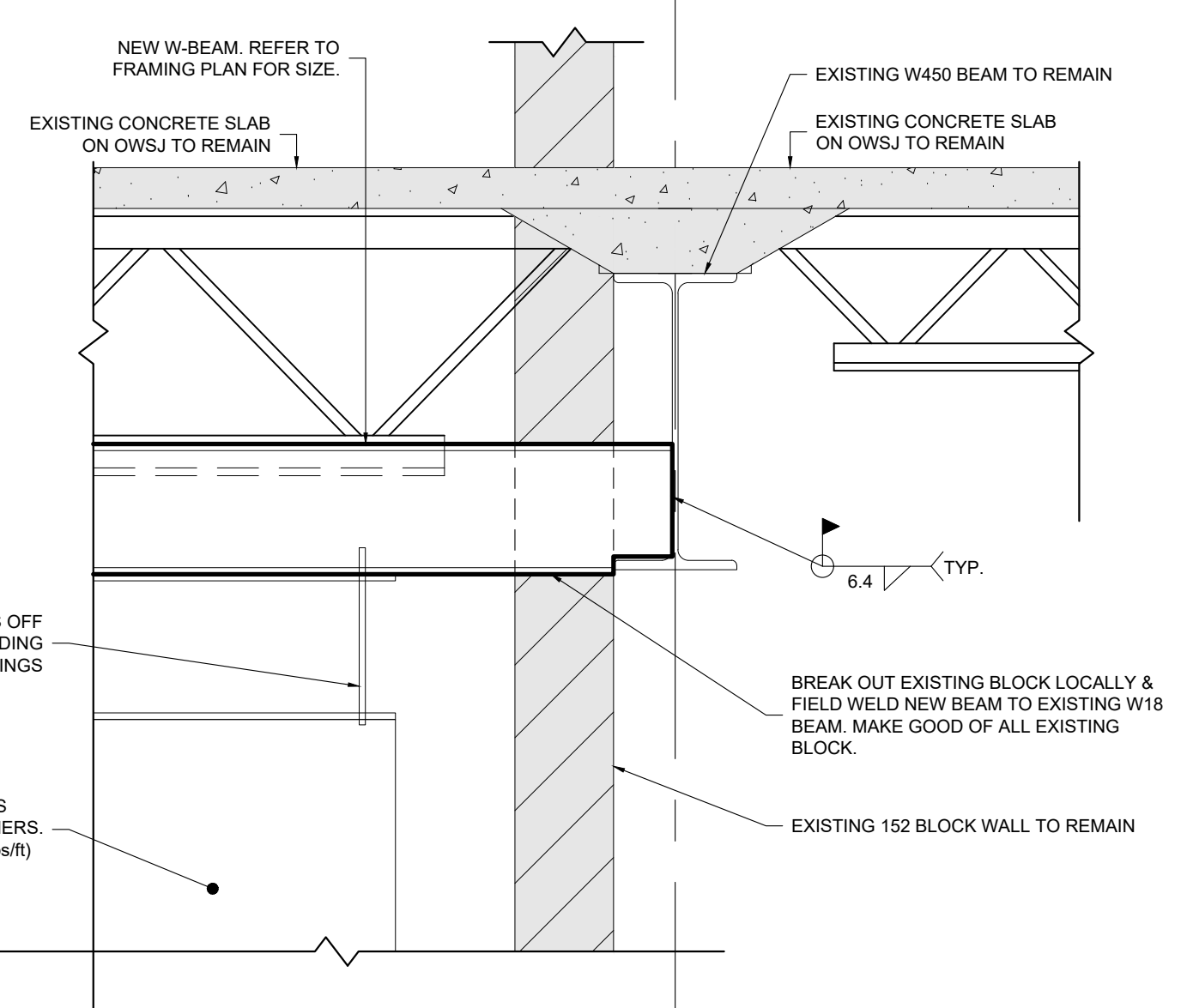
NOTES:
 1. THE CONTRACTOR IS TO SITE VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION. EXISTING CONDITIONS MAY VARY. COORDINATE ANY DIFFERENCES BETWEEN THE CONTRACT DOCUMENTS & ON SITE CONDITIONS WITH WDE. ANY ADDITIONAL DETAILS/CHANGES REQUIRED WILL BE ISSUED IN A SITE INSTRUCTION DURING CONSTRUCTION.

LINTEL SCHEDULE		
LINTEL	SIZE	END BEARING
L1	(2) L78x78x6.4	203mm EACH END
L2	(2) L127x76x9.5 LLV	203mm EACH END

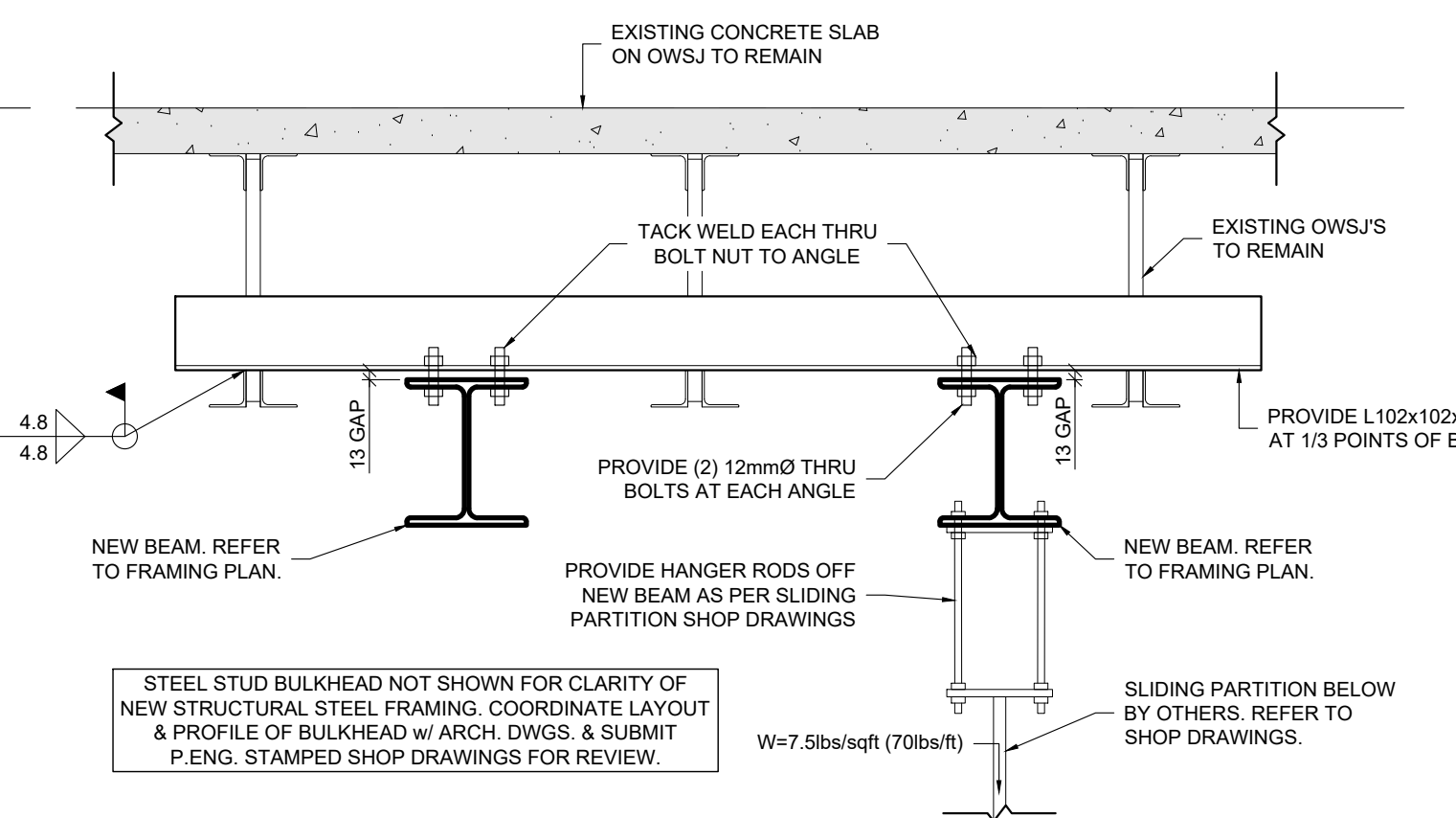
COLUMN SCHEDULE			
COLUMN	SIZE	BASE PLATE	ANCHOR BOLTS
C1	C180x15	225x64x13	(2) 12mmØ ANCHORS c/w HILTI HY-200 EPOXY w/ 3 1/2" EMBED. INTO EXISTING CONC. SLAB



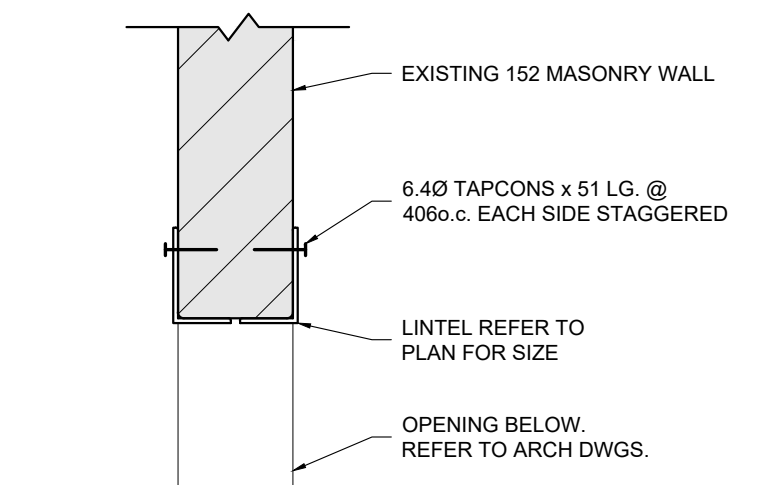
2 SECTION CHANNEL COLUMN AT BLOCK WALL 1:25



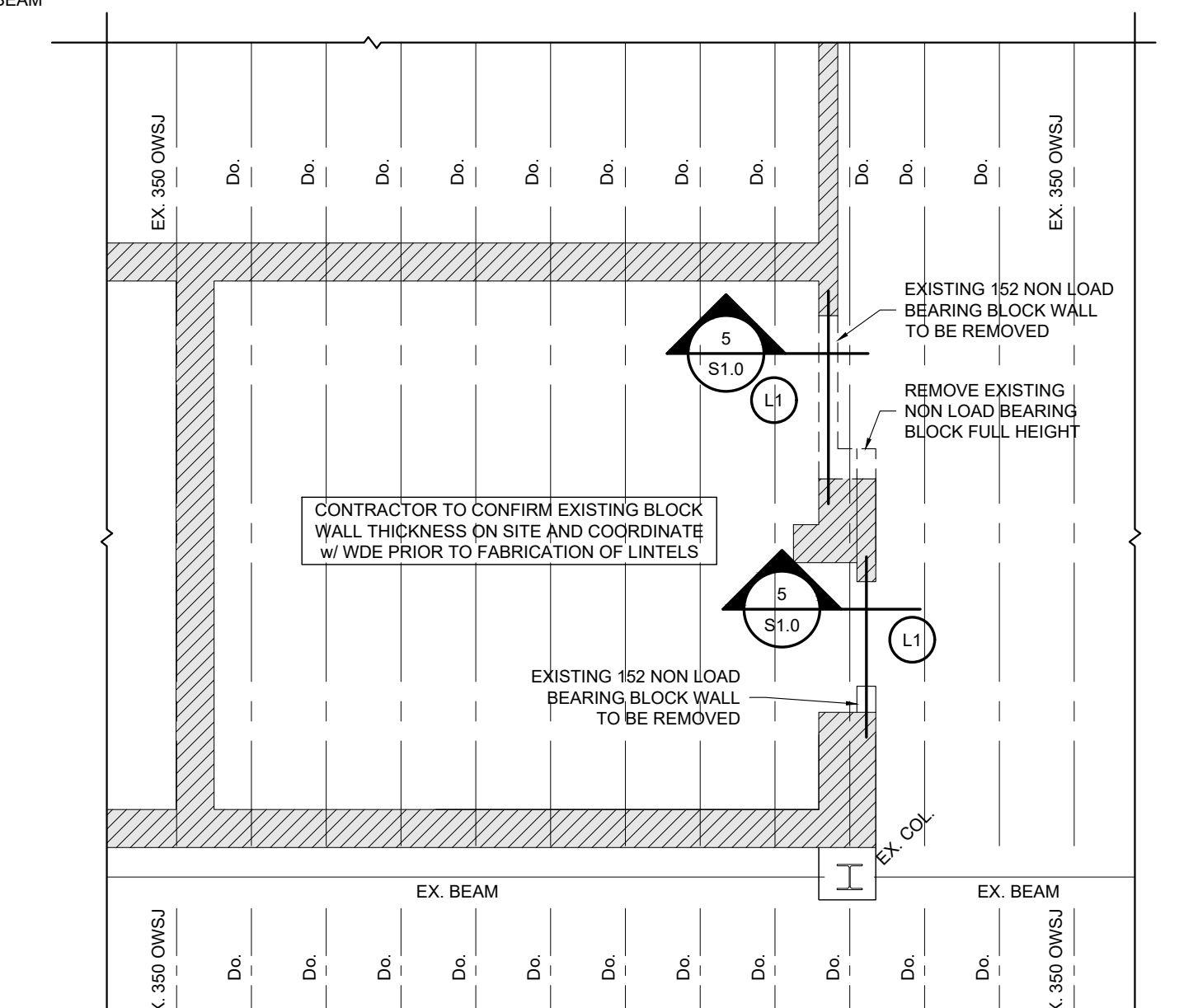
3 SECTION NEW BEAM AT EXISTING BEAM 1:10



4 SECTION ANGLE TO EXISTING OWSJ 1:10



5 SECTION MASONRY LINTEL 1:10



6 PARTIAL SECOND FLOOR FRAMING PLAN 1:50

NO.	DATE	REVISION
2	2022/03/23	RE-ISSUED FOR TENDER
1	2021/05/07	ISSUED FOR PERMIT AND TENDER

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6. ALL DIMENSIONS GIVEN ARE IN METRIC.



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 www.witzeldyce.com

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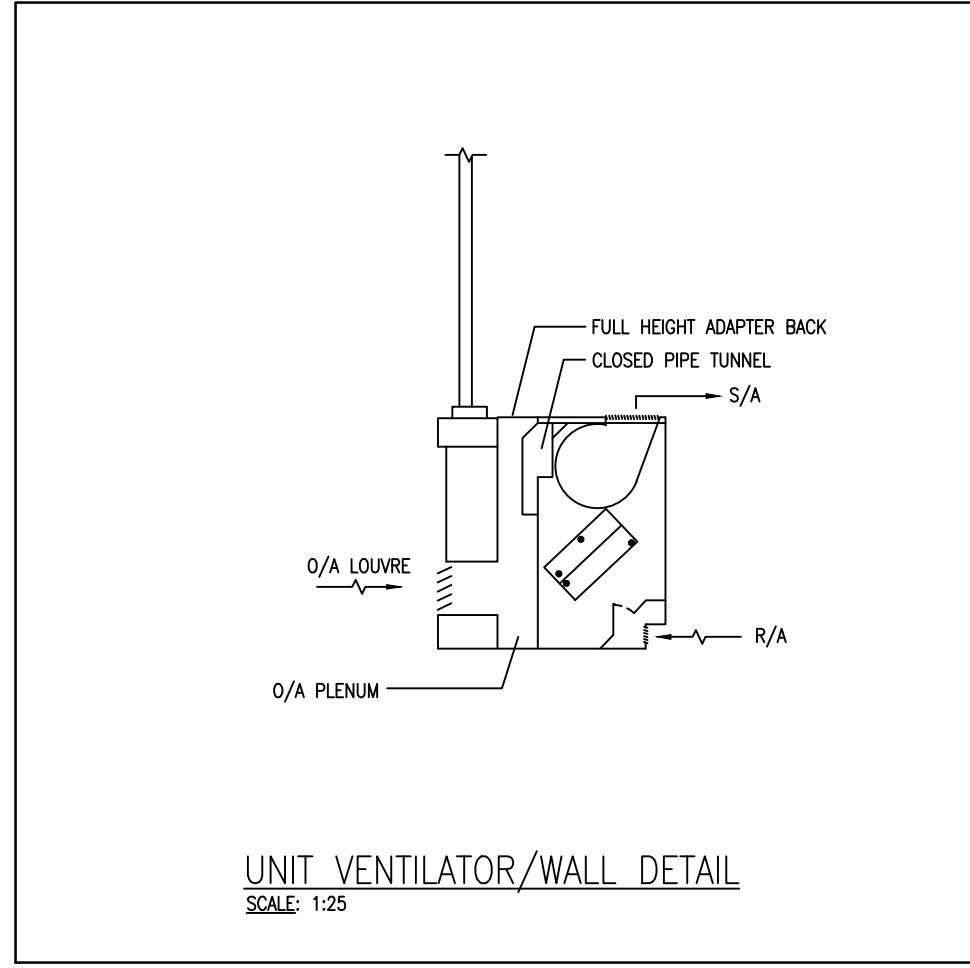
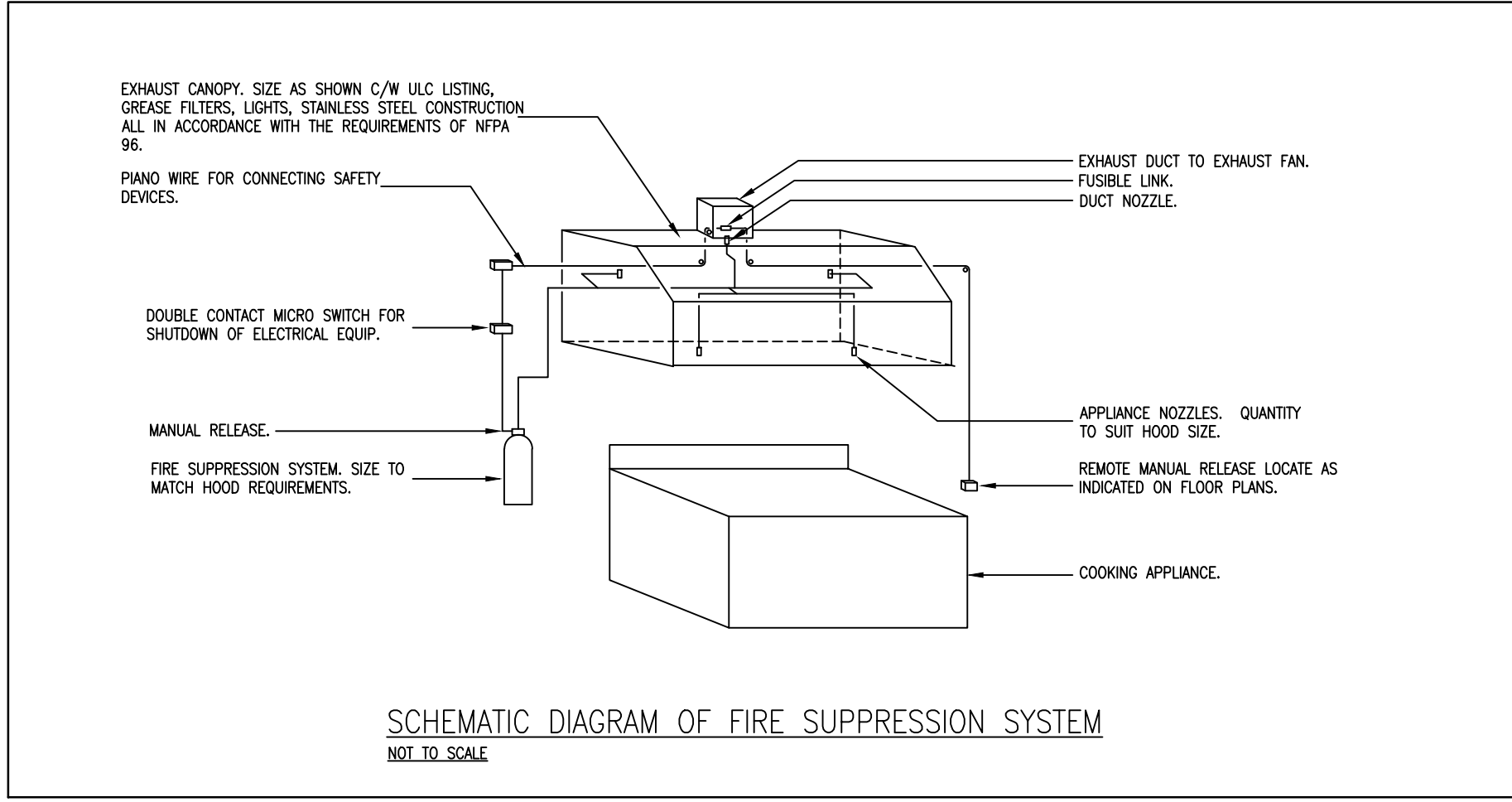
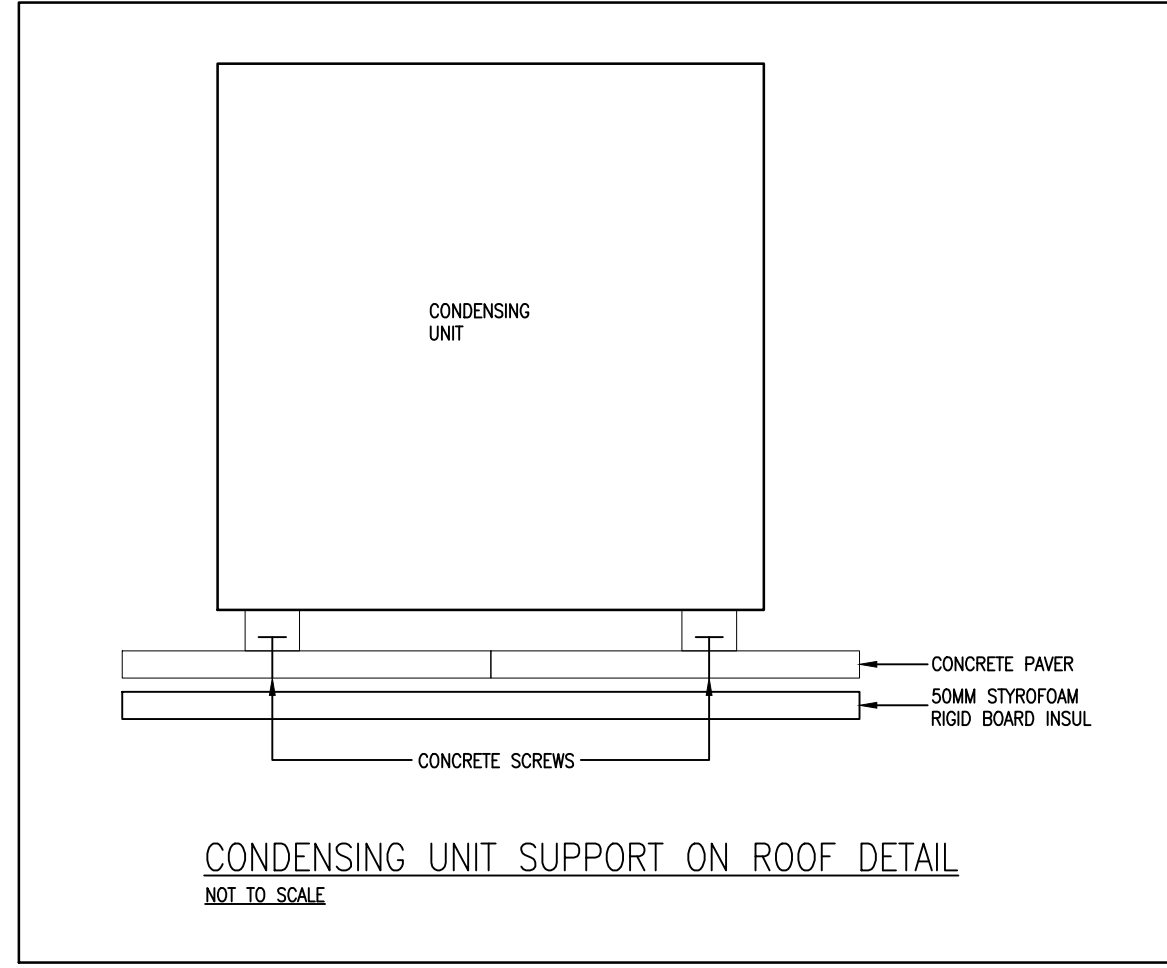
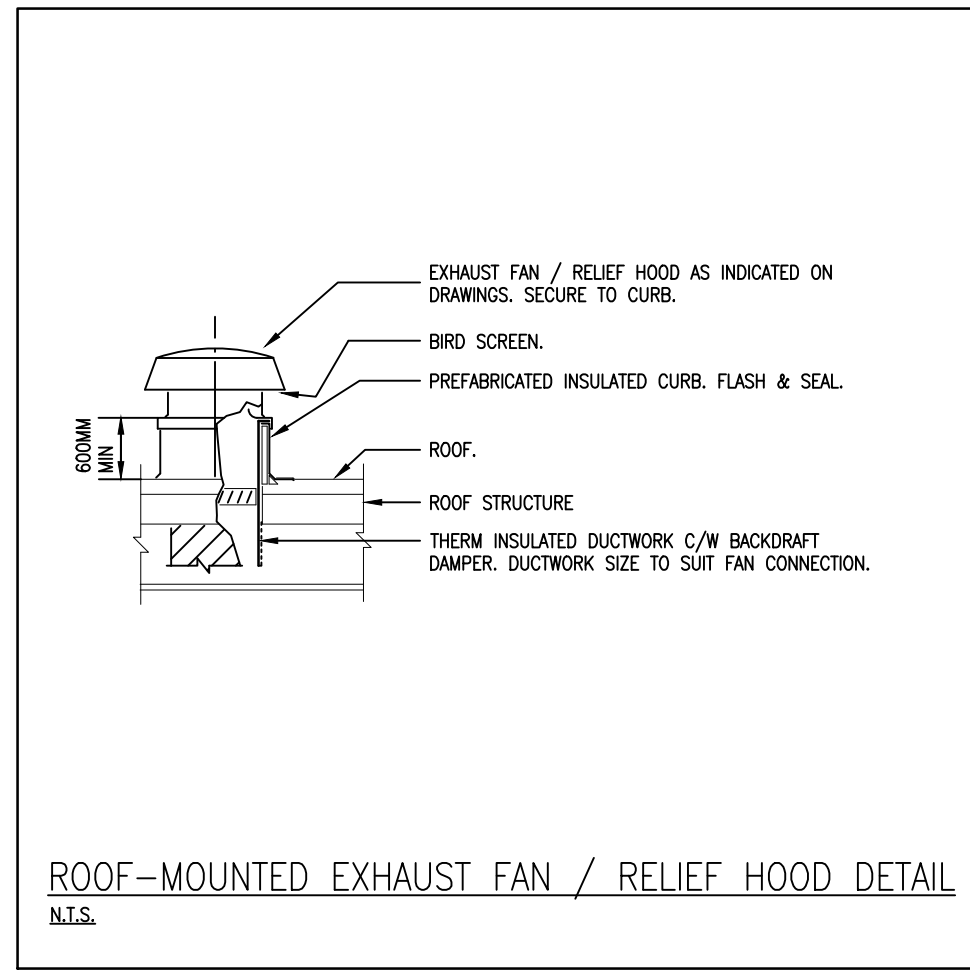
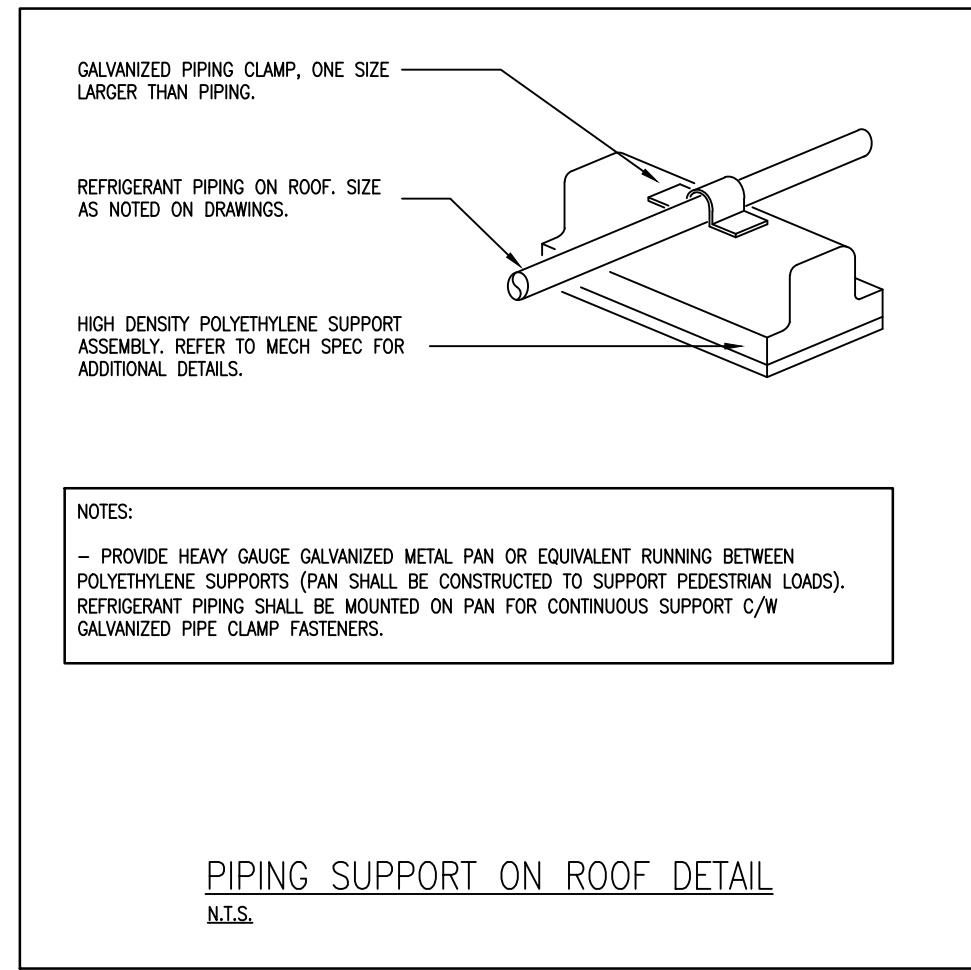
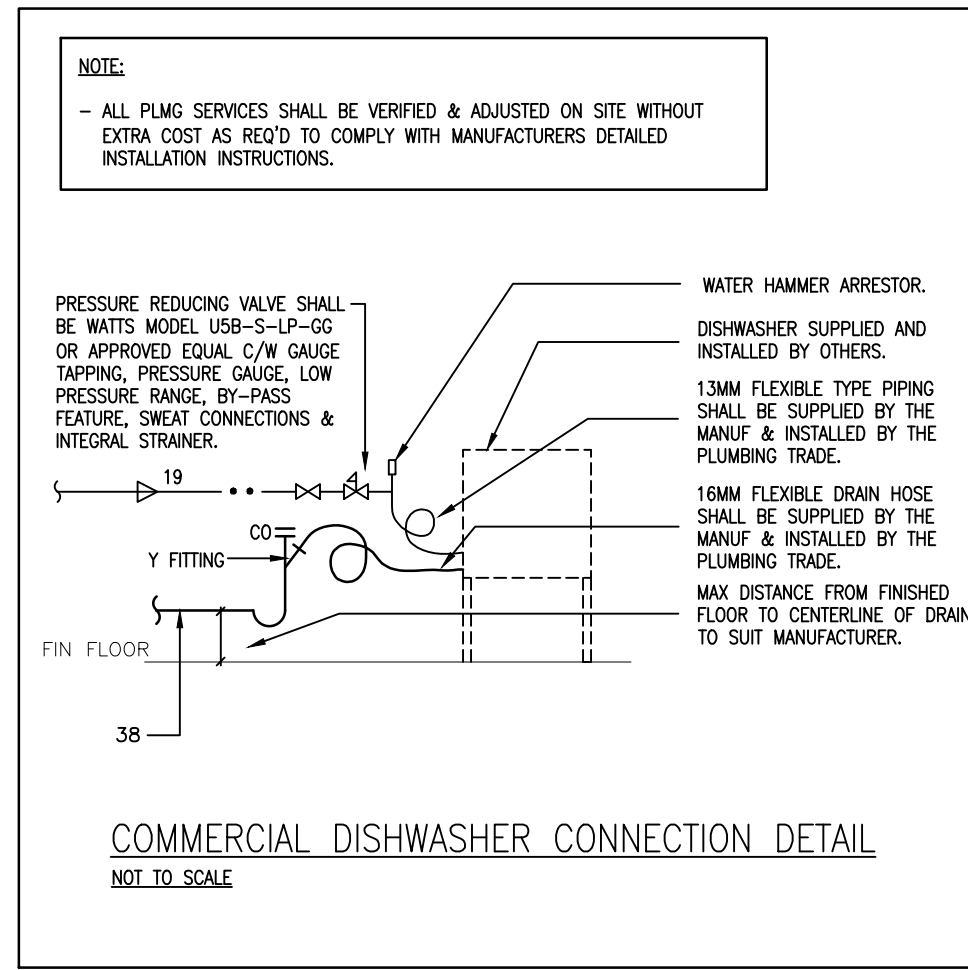
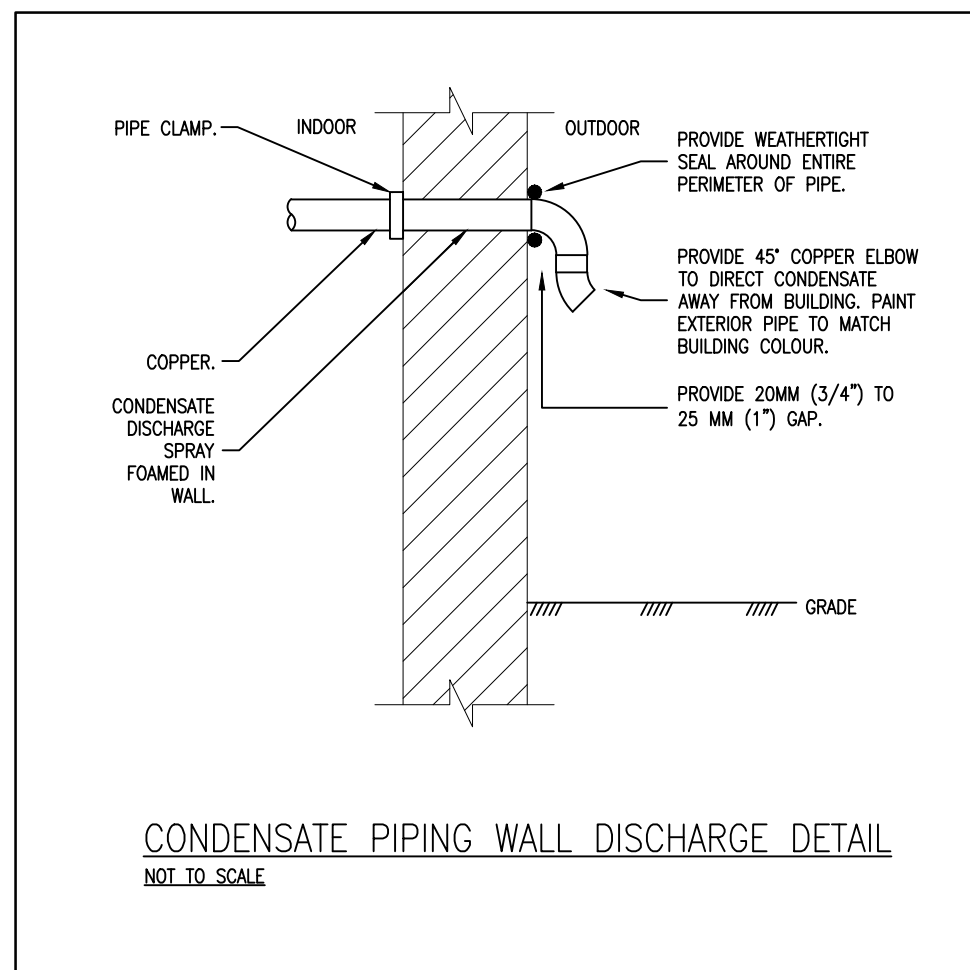
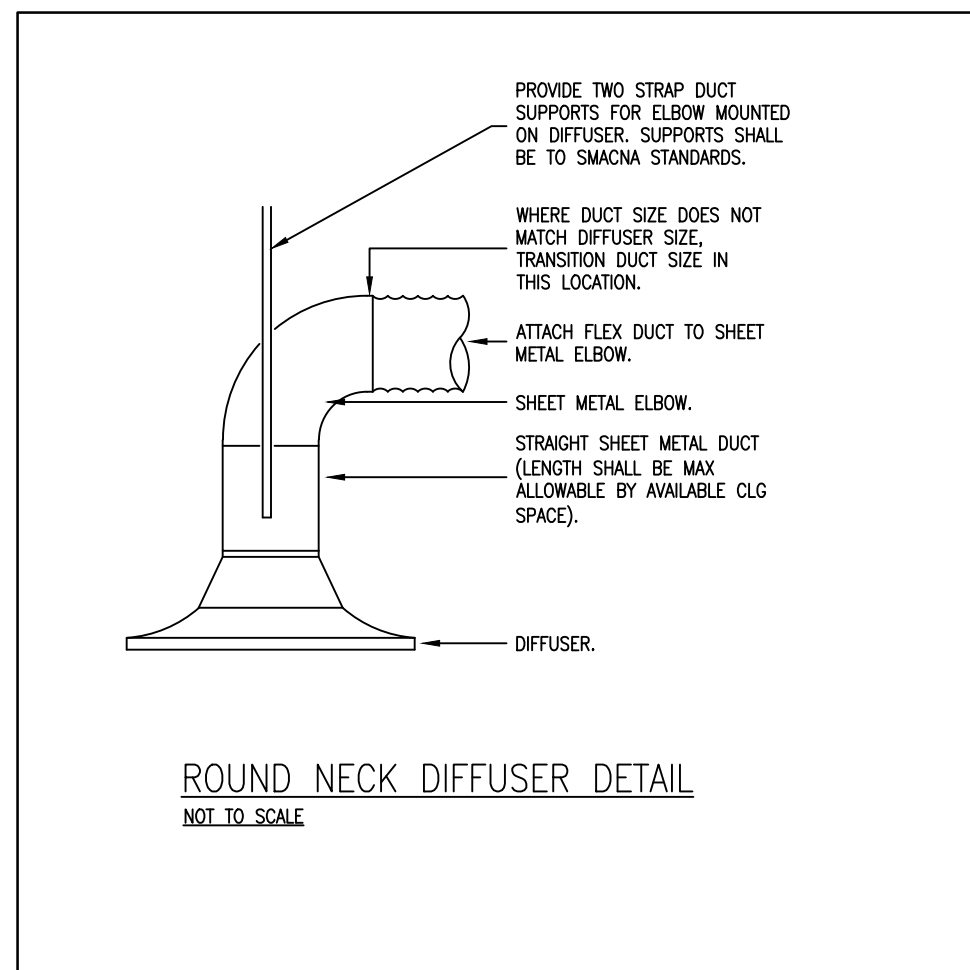
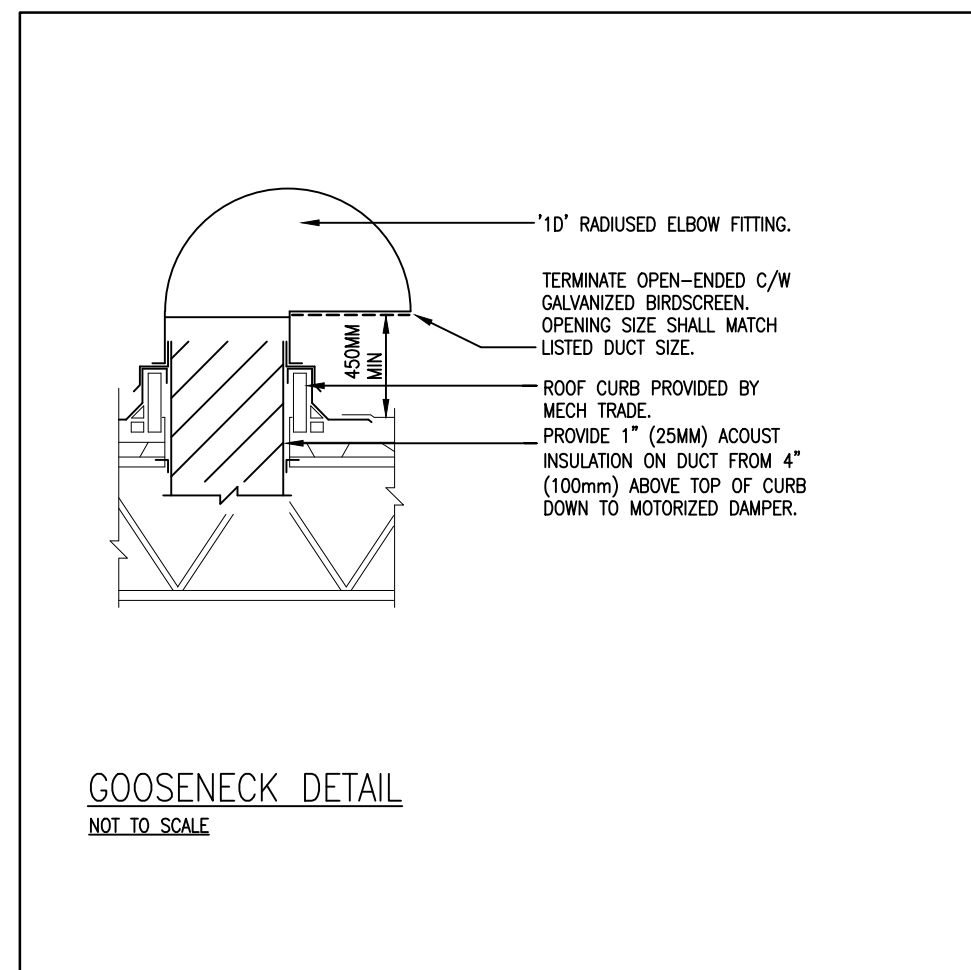
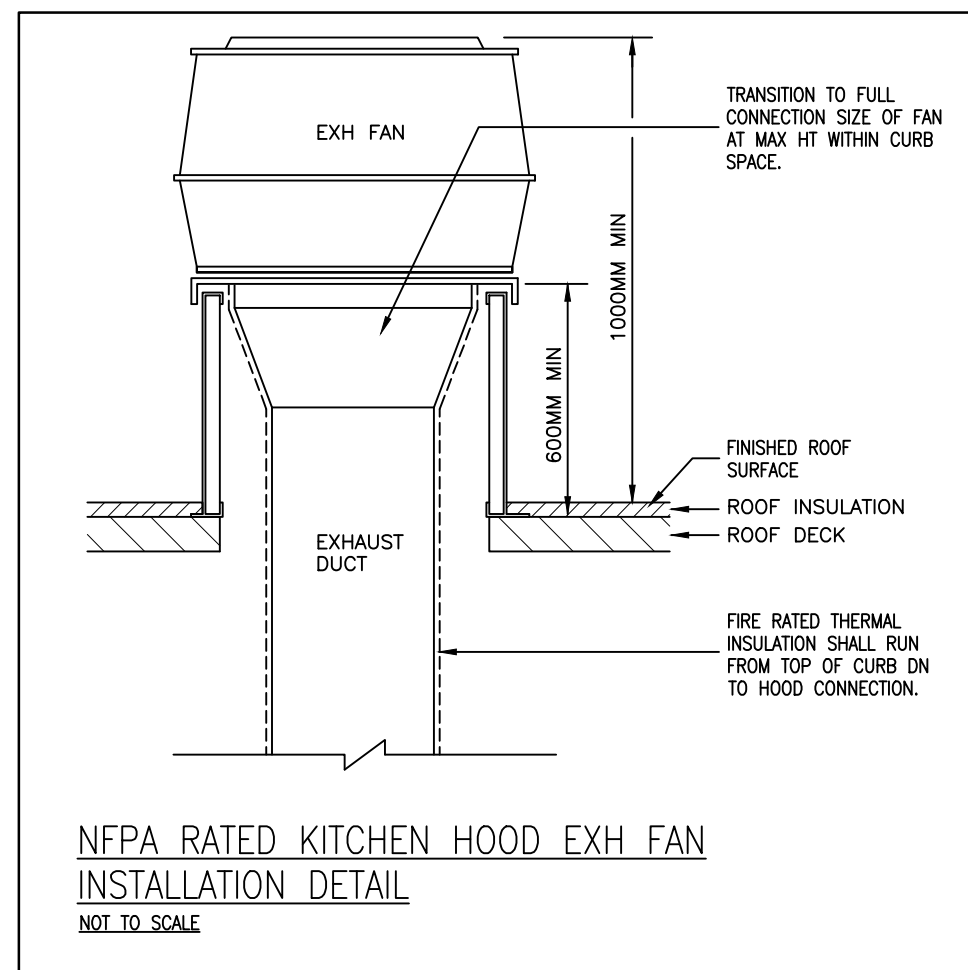
DRAWING TITLE:
PARTIAL ROOF FRAMING PLAN & SECTIONS

PROJECT NO:	10747-200	SCALE:	AS NOTED
DRAWN:	RGW	DRAWING NO.:	S1.0
CHECKED:	DAW	REV.:	1
DATE:	MARCH 2022		

DATE PLOTTED: Wednesday, March 23, 2022

LEGEND	
SYMBOL	DESCRIPTION
C	CONDENSING UNIT
CDW	COMMERCIAL STYLE DISHWASHER
CO	CLEANOUT
CW	COLD WATER
CTE	CONNECT TO EXISTING
D	DRYER (SUPPLIED BY OTHERS)
EF	EXHAUST FAN
EX	EXISTING
E/A	EXHAUST AIR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FSD	FIRE & SMOKE DAMPER
GI	GREASE INTERCEPTOR
HW	HOT WATER
HWH	HOT WATER HEATING
HWR	HOT WATER HEATING RETURN
HWS	HOT WATER HEATING SUPPLY
KS	KITCHEN SINK
L	LAVATORY
ROW	RESIDENTIAL STYLE CLOTHES WASHER
REL	RELOCATE FROM THIS LOCATION
REL'D	RELOCATE TO THIS LOCATION
R/A	RETURN AIR
S/A	SUPPLY AIR
UV	UNIT VENTILATOR
WC	WATER CLOSET
---	EXISTING TO REMAIN
----	EXISTING TO BE REMOVED/RELOCATED
(N)	REFERS TO NOTE ON THE SAME DRAWING/DETAIL
(E-2)	EQUIPMENT TAG
J	DUCT / PIPE CAP
S	SANITARY DRAIN BELOW FLOOR/GRADE
S	SANITARY DRAIN ABOVE FLOOR
-	COLD WATER PIPING
-	HOT WATER PIPING
-	HOT WATER RECIRCULATION PIPING
-	HWH
-	HWS
-	HWR
G	LOW PRESSURE NATURAL GAS PIPING (7" (175MM) WC)
G	PIPING TURNING DOWN
G	PIPING TURNING UP
I	ISOLATION VALVE
SA	ELECTRIC AUTOMATIC CONTROL VALVE
CBV	CIRCUIT BALANCING VALVE (CBV)
---	CHANGE IN PIPE SIZE
---	CONNECT TO EXISTING
---	FIXTURE ON FLOOR ABOVE
---	RECT SUPPLY DUCT UP / DN
---	RECT RETURN OR EXHAUST DUCT UP / DN
---	FLEXIBLE DUCT
---	RIGID ROUND DUCT (SINGLE LINE DESIGNATION)
---	MANUAL BALANCING DAMPER
---	FIRE DAMPER
FSD	COMBINATION FIRE / SMOKE DAMPER
---	AIRFLOW (L/S)
---	GRILLE/DIFFUSER SIZE (MM) & TYPE
A	GRILLE/DIFFUSER TYPE
---	GRILLE/DIFFUSER SIZE (MM)
---	ACOUSTIC LINING
---	THERMAL INSULATION
---	DUCT SIZE TRANSITION
---	SPACE-MOUNTED THERMOSTAT & UNIT CONTROLLED
---	EXISTING TO REMAIN
---	EXISTING TO BE REMOVED
---	TRANSFER DUCT
---	BACKDRAFT DAMPER (B/D)
FE	FIRE EXTINGUISHER
VAV	VARIABLE AIR VOLUME
---	CO2 SENSOR & UNIT CONTROLLED
---	TRANSFORMER

DRAWING LIST	
M1.1	MECHANICAL LEGEND & DETAILS
M1.2	MECHANICAL SCHEDULES
M2.1	PARTIAL MECHANICAL PLANS
M2.2	PARTIAL MECHANICAL PLANS



NO.	DATE	REVISION
01	04.30.21	ISSUE FOR REVIEW
02	03.07.21	ISSUE FOR PERMIT AND TENDER #7174K-21
03	03.23.22	RE-ISSUE FOR TENDER #774-RW-22

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DRAWING TITLE: MECHANICAL LEGEND & DETAILS	
PROJECT NO: 21044	SCALE: AS NOTED
DRAWN: J.Z.	DRAWING NO. REV. M1.1
CHECKED: A.W.G.	
DATE: APR/21	

DATE PLOTTED: Thursday, March 24, 2022

UNIT VENTILATOR SCHEDULE			
SYMBOL	DESCRIPTION	SUPPLIER & MODEL	REMARKS
UV-9	HYDRONIC HEATING / ELEC (DX) COOLING UNIT VENTILATOR COOLING: 43 MBH (3.5 TON) EAT (DB/WB)=80F/67F LAT (DB/WB)=55.67/35.5F HEATING: 79.0 MBH (23.2 KW) EAT (DB)=47.2F LAT (DB)=106.4F AIRFLOW: SUPPLY=1250/1090/930 CFM (H/M/L SPEED), SET TO M OUTDOOR=106 MIN, 480 CFM MAX	DAKON LW52H13	120-1-60, MCA=6.25, MOC=15. DIMENSIONS (H/D/W)=218X353X765MM, WEIGHT=238 KG (525 LBS). PROVIDE: - EC FAN MOTOR, 3-SPEED, 0.33 HP, 5 AMPS. - CONFIGURATION C/W FACE & BYPASS DAMPER CONTROL. - DIRECT EXPANSION COOLING COIL, COIL SUITABLE FOR R-410A REFRIGERANT. - HYDRONIC HEATING COIL. - DIGITAL READY CONTROLS PACKAGE. - FINITE BEIGE CABINET COLOUR. - SECTIONALIZED FRONT ACCESS PANELS. - HINGED TOP ACCESS PANELS. - TAMPER RESISTANT FASTENERS ON ALL ACCESS PANELS. - BOTTOM FRONT R/A INLET GRILLE & REAR O/A INTAKE DUCT COLLAR. - TWO 50MM (1") END PANELS (CUT-OUTS TO BE COMPLETED ON SITE) C/W MOUNTING HARDWARE & ROCKPLATE. - NON-FUSED DISCONNECT. - ADJUSTABLE LEG LEVELERS. - REPLACEABLE FILTERS C/W ONE EXTRA SET. - SECONDARY OVERFLOW DRAIN CONNECTION FOR CONDENSATE PAN. - ARRANGEMENT "AK" C/W TOP BAR DISCHARGE GRILLE, FULL ADAPTER BACK & CLOSED PIPE TUNNEL. - PIPING CONNECTION SIDE TO BE SELECTED BASED ON DRAWINGS & VERIFICATION ON SITE. - HEATING COIL FREEZEZEST (FACTORY INSTALLED & WIRED). - CONTROL VALVE SHALL BE SUPPLIED BY ENERGY CONTROLS & INSTALLED BY MECH TRADE.

EXHAUST FAN SCHEDULE			
SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	REMARKS
EF-1,2	ROOF-MOUNTED UPBLAST EXHAUST FAN FOR COMMERCIAL KITCHEN HOOD 525 CFM (248 L/S) AT 1.0" WC (0.25 KPA) ESP	PENNBARRY FLMEX FX088	208-1-60, 0.5 HP. PROVIDE: - FATRAP OPTION C/W UL762 LISTING, DRAIN TO GREASE SEPARATOR BOX, HINGED. - HINGED SUB-BASE. - BELT DRIVE. - BRID SCREEN. - NON-FUSED DISCONNECT. - OVERLOAD PROTECTION. - OVERLOAD PROTECTION. - NON-COMBUSTIBLE ROOF CURB. SIZE TO PERMIT INSTALLATION OF DUCTWORK. C/W FIRE-RATED INSULATION, HEIGHT TO ENSURE MIN 18" (450MM) FROM BOTTOM OF FAN & 40" (1000MM) FROM TOP OF FAN TO ROOF.
RH-1,2,3,4	UNDER-CABINET RANGE HOOD 200 CFM (95 L/S) AT 0.6" WC (0.15 KPA) ESP 30" (750MM) WIDE	BROAN GLACIER BGDH130S5	120-1-60, 1.4 A. PROVIDE: - STAINLESS STEEL. - VERTICAL DISCHARGE C/W GRAVITY BACKDRAFT DAMPER. - 3-SPEED CAPACITIVE TOUCH CONTROLS. - 2-LEVEL LED LIGHTING. - MICRO MESH GREASE FILTERS. - MOUNTING BRACKET.

INTERCEPTOR SCHEDULE			
SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	REMARKS
GI	GREASE INTERCEPTOR 75 GPM (284 LPM) MAX FLOW 150 LBS (68 KG) GREASE CAPACITY 4" (100MM) INLET & OUTLET CONNECTIONS	ZURN Z1170-E-900	PROVIDE EXTENSION HAVING TOP TO CENTERLINE OF DRAIN DIMENSION TO SUIT INVERT & SEDIMENT BUCKET.

DIFFUSER & GRILLE SCHEDULE			
SYMBOL	DESCRIPTION	SUPPLIER & MODEL	REMARKS
A	4 CONE STEEL CEILING DIFFUSER, 4-WAY THROW	KRUEGER 1400-04-F23-24X24-00-00-44	PROVIDE LAY-IN T-BAR STEEL FRAME & 24"x24" (600X600MM) PANEL SIZE.
B	EGG-CRATE TRANSFER GRILLE	KRUEGER EGC5-F23-NONE-01-00-00-44	PROVIDE 0.5" (13MM) CORE & LAY-IN T-BAR ALUMINUM FRAME.
C	ALUMINUM GRID CORE EXHAUST GRILLE	KRUEGER EGC5-F22-NONE-01-00-00-44	PROVIDE 0.5" (13MM) CORE, SURFACE MOUNT ALUMINUM FRAME & SCREW HOLE MOUNTING.

RELIEF HOOD SCHEDULE			
SYMBOL	DESCRIPTION	SUPPLIER AND MODEL	REMARKS
RMRH-1	ROOF-MOUNTED RELIEF HOOD	PENNBARRY WCC30	ALUMINUM CONSTRUCTION, BROSGREEN, GRAVITY BACKDRAFT DAMPER & CURB ADAPTER.

CONDENSING UNIT SCHEDULE			
SYMBOL	DESCRIPTION	SUPPLIER & MODEL	REMARKS
C-9	ELEC (DX) CONDENSING UNIT COOLING: 36 MBH (3 TONS)	CARRIER INFINITY 24N8636	208-1-60, MCA=18.2, MOC=30, WEIGHT= 110 KG (236 LBS). PROVIDE: - LONG LINE ELEMENTS IF REFRIGERANT PIPING EQUIVALENT LENGTH EXCEEDS 80FT. - REFRIGERANT R-410A. - 1-STAGE SCROLL COMPRESSOR. - INTERNAL PRESSURE RELIEF VALVE. - INTERNAL THERMAL OVERLOAD PROTECTION. - FILTER DRIER. - LOW & HIGH PRESSURE SWITCHES. - LOWVRED COIL GUARD. - COMPRESSOR SOUND BLANKET. - COMPRESSOR START ASSIST (CAPACITOR & RELAY). - 5 YEAR COMPRESSOR WARRANTY. - SIGHT GLASS. - WIND BAFFLE. - TX VALVE.

PLUMBING FIXTURE & EQUIPMENT SCHEDULE				
SYMBOL	DESCRIPTION	FIXTURE MANUFACTURER & MODEL	TRIM MANUFACTURER & MODEL	REMARKS
L	WALL HUNG LAVATORY, BARRIER FREE	AMERICAN STANDARD MURRO 0954-0046C C/W 0059.0292C SHROUD	DELTA 59111258TR-ELAV1000BAR 337290 337311	PROVIDE ZURN Z-1231 CARRIER C/W ARMS TO SUIT FIXTURE. ELECTRONIC BATTERY FAUCET SHALL BE C/W 0.5 USGPM (1.9 LPM) VANDAL RESISTANT LAMNAR OUTLET & SOLENOID VALVE / CONTROL ASSEMBLY IN RECESSED BOX HAVING STAINLESS STEEL COVERPLATE, SCREWS/ROTOR STOPS FOR HW / CW SUPPLIES, THERMOSTATIC MIXING VALVE, SENSOR CORD HAVING LENGTH TO SUIT SITE CONDITIONS & FLEXIBLE SENSOR CORD CONDUIT. PROVIDE STAINLESS STEEL BRAIDED HOSE FOR CONNECTION OF SOLENOID VALVE TO FAUCET. MOUNT CONTROL BOX AT MAX HEIGHT BELOW LAVATORY (EXACT LOCATION TO SUIT ARCHITECT). SET TEMPERATURE FROM THERMOSTATIC MIXING VALVE TO 104FF (40C). VERIFY USING A THERMOMETER THAT TEMPERATURE HAS BEEN SET TO REQUIRED VALUE & PROVIDE WRITTEN CONFIRMATION OF SETPOINT TO OWNER. PROVIDE DAHL #13-2277 MINI-BALL VALVE CHROME PLATE ANGLE SUPPLY STOP KIT C/W BRAIDED SS HOSES & ESCUTCHEONS.
WC	ELONGATED BOWL FLUSH VALVE WATER CLOSET, BARRIER FREE	AMERICAN STANDARD MADERA FLOWISE 3461.001	DELTA 817001-6-WNSHMA C/W 24HR AUTOMATIC FLUSH	PROVIDE GENTOO MODEL 800TS OPEN-FRONT BLACK SEAT C/W COVER, PLASTIC CHECK HINGES & STAINLESS STEEL POSTS / PINTLES. PROVIDE SENSOR OPERATED / HARDWIRED EXPOSED TYPE FLUSH VALVE C/W CHROME PLATED FINISH, NON-ADJUSTABLE 6.0 FLUSH CYCLE, VACUUM BREAKER, ELECTRONIC OVERRIDE BUTTON, ANGLE CHECK STOP & 100MM WALLPLATE C/W SENSOR. INSTALL WITH CENTRELINE OF SENSOR MAX 600MM ABOVE TOP OF FIXTURE. ENSURE SENSOR IS ABOVE TOILET SEAT & IS NOT INTERFERED BY GRAB BAR (PROVIDED BY GENERAL TRADE).
KS-1	COUNTER-MOUNT SINK ONE COMPARTMENT TWO LEVERS	FRANKE L85688P-1/3	MOEN MOURA 8289	STAINLESS STEEL, TOP-MOUNT FIXTURE C/W 16"x18"x8" DEEP (400MMX450MMX200MM) COMPARTMENT, UNDERCOAT, NO OVERFLOW, TWO TRIM HOLES ON 8" (200MM) CENTRES. CHROME TRIM C/W 8.5" (213MM) SPOUT, 1.5 GPM (5.7 LPM) AERATOR. SUPPLY KIT (DAHL E13-2277) C/W ESCUTCHEONS, ANGLE STOPS, STAINLESS STEEL BRAIDED HOSES, WASTE KIT C/W CRUMB CUP STRAINER, TALPEDE, TRAP.
KS-2	COUNTER-MOUNT SINK TWO COMPARTMENT TWO LEVERS	FRANKE L86408-1/3	MOEN MOURA 8289	STAINLESS STEEL, TOP-MOUNT FIXTURE C/W 16"x14"x8" DEEP (400MMX350MMX200MM) COMPARTMENTS, UNDERCOAT, NO OVERFLOW, TWO TRIM HOLES ON 8" (200MM) CENTRES. CHROME TRIM C/W 8.5" (213MM) SPOUT, 1.5 GPM (5.7 LPM) AERATOR. SUPPLY KIT (DAHL E13-2277) C/W ESCUTCHEONS, ANGLE STOPS, STAINLESS STEEL BRAIDED HOSES, WASTE KIT C/W CRUMB CUP STRAINER, TALPEDE, TRAP.
ROW	CLOTHES WASHER WALLBOX	WATTS 2M2 DW9	N/A	HOT / COLD WATER SHUT-OFF VALVE FITTING C/W WALLBOX (BOX SHALL CONTAIN WATER SHUT-OFF LEVER & INTEGRAL DRAIN CONNECTION). WASHER C/W CONNECTION HOSE SHALL BE PROVIDED BY THE GENERAL TRADE.

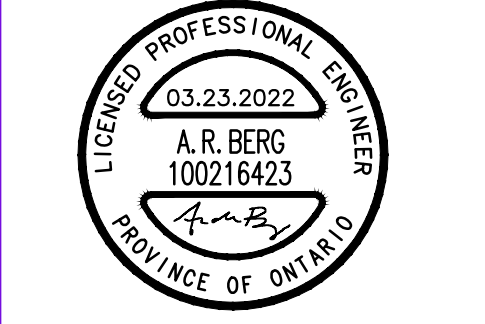
NOTES:
1. COLOUR OF ALL VITREOUS CHINA FIXTURES SHALL BE WHITE & ALL WATER CLOSET SEATS SHALL BE BLACK.
2. QUANTITY OF FIXTURES & EQUIPMENT ARE AS INDICATED ON DRAWINGS.
3. REFER TO MECH SPEC FOR REQ'D MOUNTING HEIGHT OF ALL FIXTURES & EQUIPMENT. VERIFY ON SITE & ADJUST TO SUIT ARCH.
4. PROVIDE HOLES IN STAINLESS STEEL FIXTURES TO SUIT TRIM.

PLUMBING BRANCH PIPING SCHEDULE						
FIXTURE	SYMBOL	SANITARY	VENT	COLD WATER	HOT WATER	
LAVATORY	L	32	32	13	13	
WATER CLOSET	WC	75	38	25		
CLOTHES WASHER (RESIDENTIAL)	ROW	38	32	13	13	
DISHWASHER (COMMERCIAL)	ODW	50	38	-	19	
KITCHEN SINK	KS	38		13	13	
KITCHEN SINK (TWO COMPARTMENT)	KS	38	32	13	13	
FLOOR DRAIN	FD	50 OR AS SHOWN	38	C/W PRIME LINE		

03	03.03.21	RE-ISSUED FOR TENDER #774-RW-22
01	04.02.21	ISSUE FOR PERMIT AND TENDER #774-RW-21
		NO. DATE: REVISION

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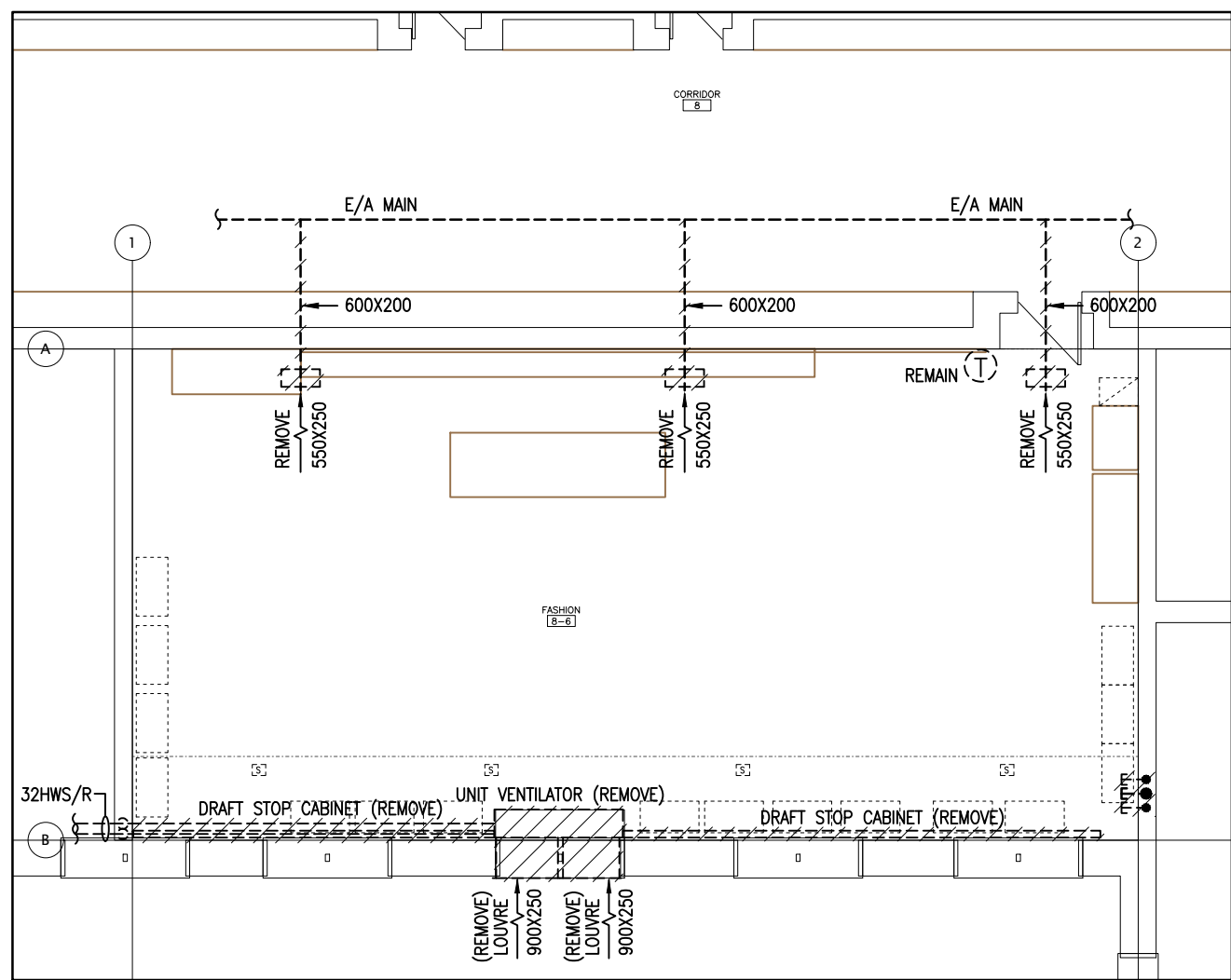


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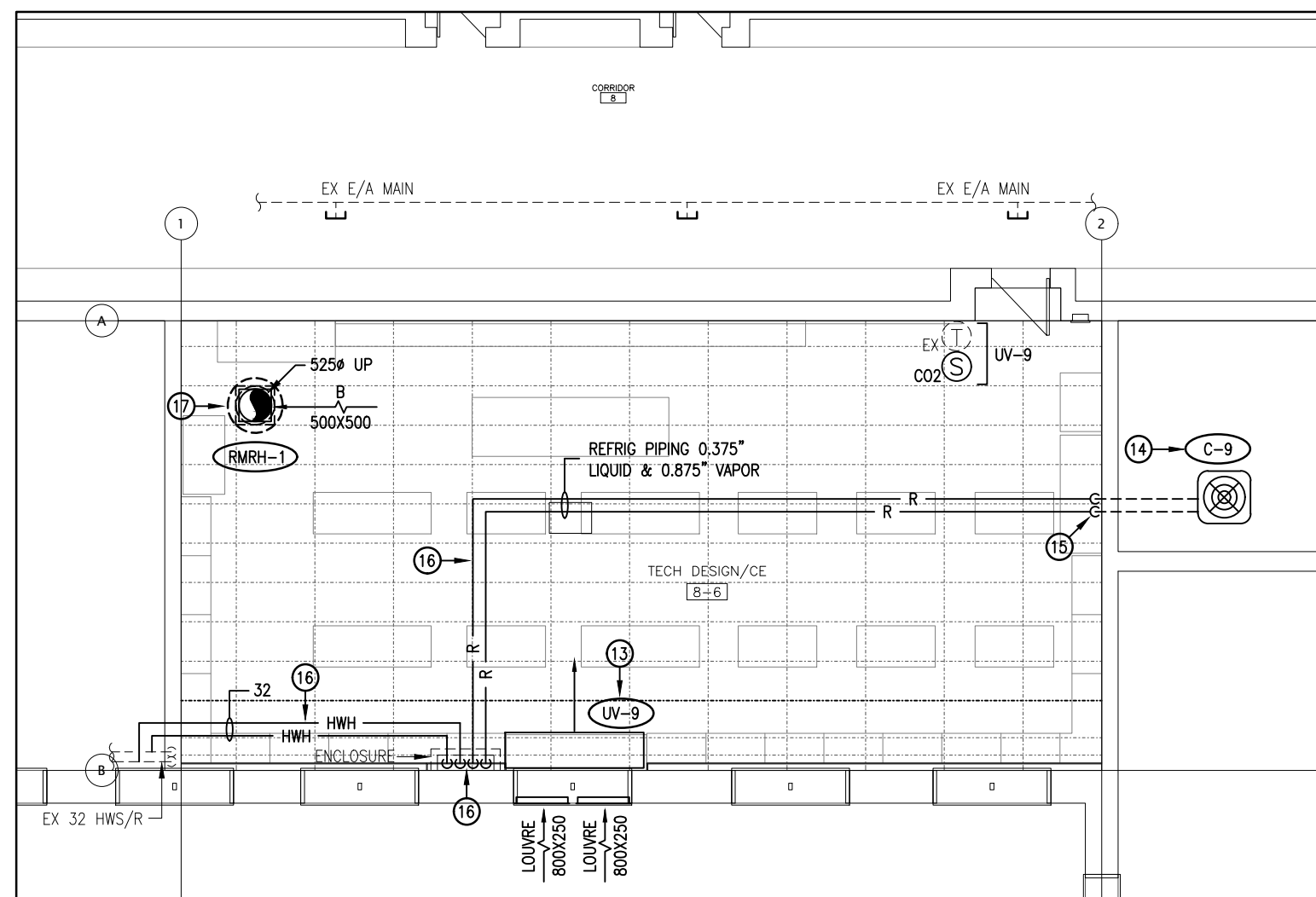
DRAWING TITLE: MECHANICAL SCHEDULES	
PROJECT NO: 21044	SCALE: AS NOTED
DRAWN: J.Z.	DRAWING NO.: REV.
CHECKED: A.W.G.	M1.2
DATE: APR/21	

DATE PLOTTED: Thursday, March 24, 2022



GROUND FLOOR HVAC DEMOLITION PLAN
SCALE: 1:100

FASHION AREA



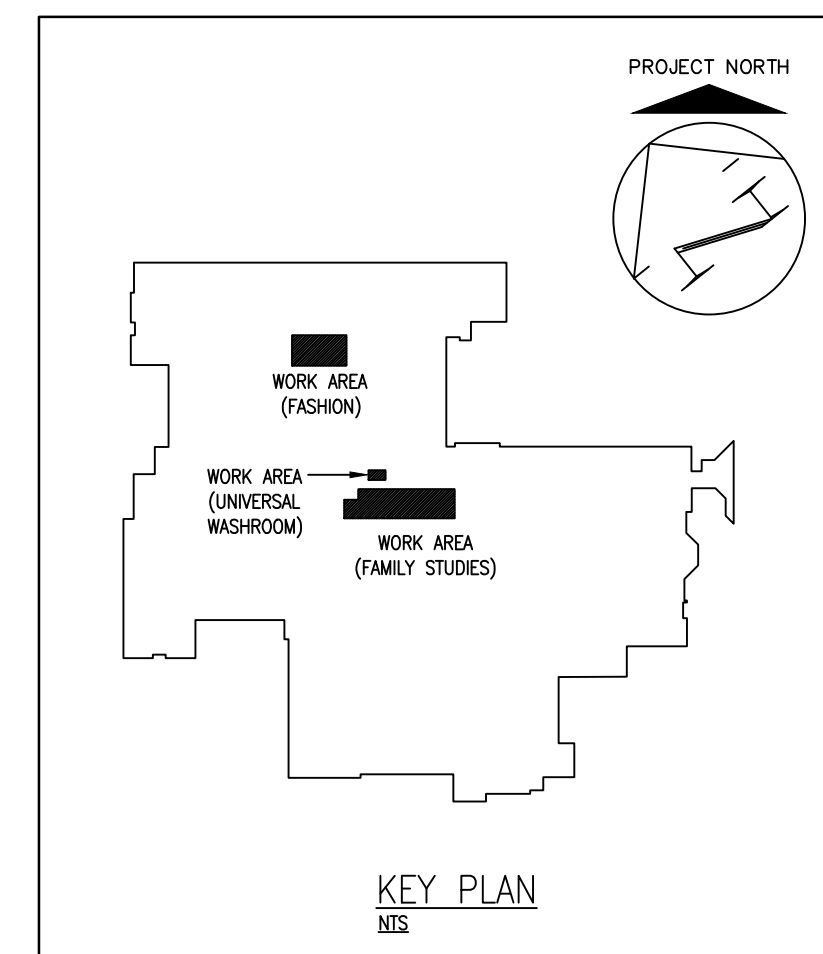
GROUND FLOOR HVAC RENOVATION PLAN
SCALE: 1:100

DRAWING NOTES:

- INSTALL NFPA 96 KITCHEN HOOD FIRE SUPPRESSION SYSTEM CHEMICAL STORAGE CONTAINER IN APPROX THIS LOCATION. REFER TO DETAIL. COORDINATE WITH ARCH.
- INSTALL NFPA 96 KITCHEN EXHAUST HOOD WITH BOTTOM EDGE LOCATED APPROX 2100MM ABOVE FINISHED FLOOR & ACCORDING TO MANUFACTURER'S REQUIREMENTS & DETAIL. REFER TO SPEC FOR HOOD SIZE, TYPE, ETC. VERIFY EXACT HOOD SIZE ON SITE & ADJUST TO SUIT COOKING EQUIPMENT, ETC.
- ALL NFPA 96 KITCHEN HOOD EXHAUST DUCTWORK SHALL BE C/W WELDED CONNECTIONS / JOINTS. CONSTRUCT ACCORDING TO NFPA 96 REQUIREMENTS & AS PER SPEC. PROVIDE FIRE RATED THERMAL INSULATION ON ALL DUCTWORK AS PER SPEC.
- INSTALL EXHAUST FAN ON 600MM HIGH ROOF CURB & AS PER DETAIL.
- PROVIDE EXHAUST GOOSENECK C/W GALVANIZED BIRDSCREEN AS PER DETAIL. DISCHARGE SHALL BE MIN 45MM ABOVE FINISHED ROOF.
- VAV BOX C/W REHEAT COIL SHALL BE FULLY CLEANED C/W FLUSHING, ETC.
- PROVIDE DUCTWORK AS REQ'D TO SUIT INSTALLATION OF COMBINATION FIRE & SMOKE DAMPER.
- PROVIDE REVERSOMATIC LT400SD UNIT TRAP FOR STACKED RESIDENTIAL DRYER. ENSURE FULL ACCESS IS MAINTAINED. ALL DRYER DUCTWORK SHALL BE THERMALLY INSULATED.
- INSTALL NFPA 96 KITCHEN HOOD FIRE SUPPRESSION SYSTEM EMERGENCY RELEASE PULL STATION ON WALL IN APPROX THIS LOCATION. REFER TO DETAIL. RUN ALL ASSOCIATED CABLES TO HOOD FIRE SUPPRESSION SYSTEM IN CONDUIT. CONDUIT SHALL RUN CONCEALED.
- EXH BRANCH DUCT CONNECT INTO MAIN AT 45° ANGLE.
- PROVIDE CONTINUOUS FIRE RATED THERMAL INSULATION ON DUCTWORK THRU LIBRARY SPACE AS PER SPEC.
- PROVIDE LAMCOOD SIGN TO READ: LIMITED COOLING AVAILABLE DURING NFPA96 HOOD OPERATION - SHUT OFF WHEN NOT IN USE - NFPA96 HOOD(S) & RANGE HOODS NOT DESIGNED TO OPERATE CONCURRENTLY - WHEN POSSIBLE SHUT OFF ONE SYSTEM WHEN OTHER IS ON - LEAVE BOTH OFF WHEN NOT IN USE.
- INSTALL UNIT VENTILATOR C/W ADAPTER BACK TIGHT TO EXTERIOR WALL AS PER DETAIL.
- INSTALL CONDENSING UNIT ABOVE CORRIDOR WALL & SECURE CONDENSING UNIT TO CONCRETE PAVES AS PER DETAIL. MOUNT REFRIGERANT PIPING ON ROOF SUPPORTS AS PER DETAIL.
- REFRIG PIPING DN INTO BLDG. REFER TO SPECIFICATION FOR MORE INFORMATION & EXTEND TO VENTILATOR WITHIN SUSPENDED CEILING SPACE.
- RUN REFRIG / HOT WATER HEATING PIPING WITHIN SUSPENDED CEILING & DN INSIDE PIPE ENCLOSURE, CONNECT TO UNIT VENTILATOR. ENCLOSURE IS BY OTHERS.
- INSTALL RELIEF HOOD ON 600MM HIGH ROOF CURB & AS PER DETAIL. COORDINATE LOCATION WITH ARCH DRAWING. PROVIDE THERM INSUL FOR ALL RELIEF DUCTWORK.
- PROVIDE APPROX 600MM DUCT EXTENSION FOR TRANSFER DUCT AT LIBRARY SIDE TO ACCOMMODATE INSTALLATION OF SMOKE DETECTOR. CO-ORD WITH ELEC TRADE ON SITE.
- INSTALL NFPA EXHAUST SYSTEM CONTROL PANEL. REFER TO SPEC.
- RELOCATE VAV BOX C/W ASSOCIATED HYDRONIC HEATING PIPING AND VALVING ASSEMBLY TO NEW LOCATION AS INDICATED ON RENOVATION PLAN. REWORK PIPING AND VALVING TO MATCH EXISTING AS REQUIRED. BALANCE FLOWRATE TO 1.2 GPM (0.016 L/S).

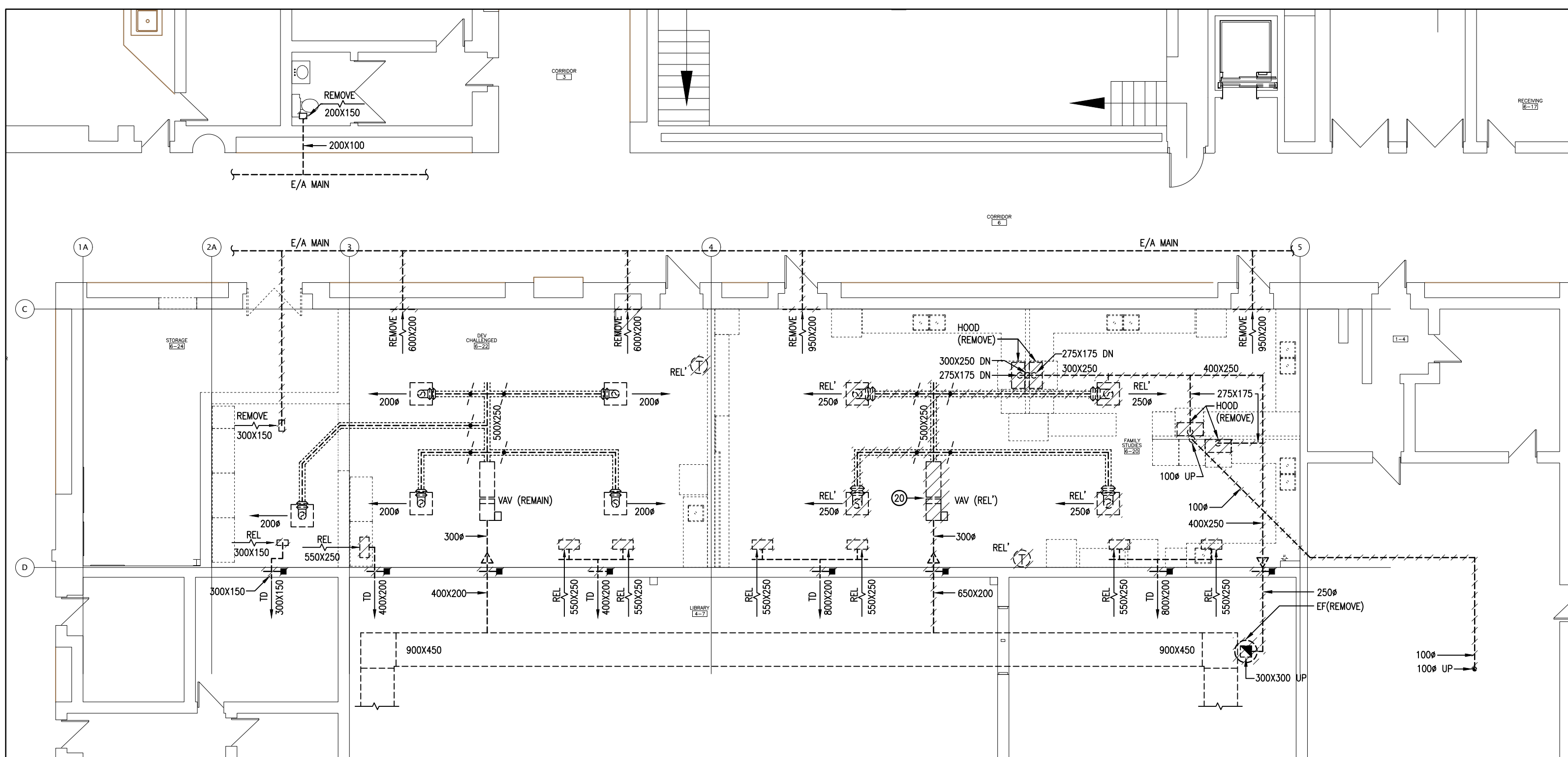
GENERAL NOTE:

ALL ROOF PENETRATION EQUIPMENT, ETC. ARE TO BE LOCATED A MINIMUM 3 METRES FROM EDGE OF ROOF.



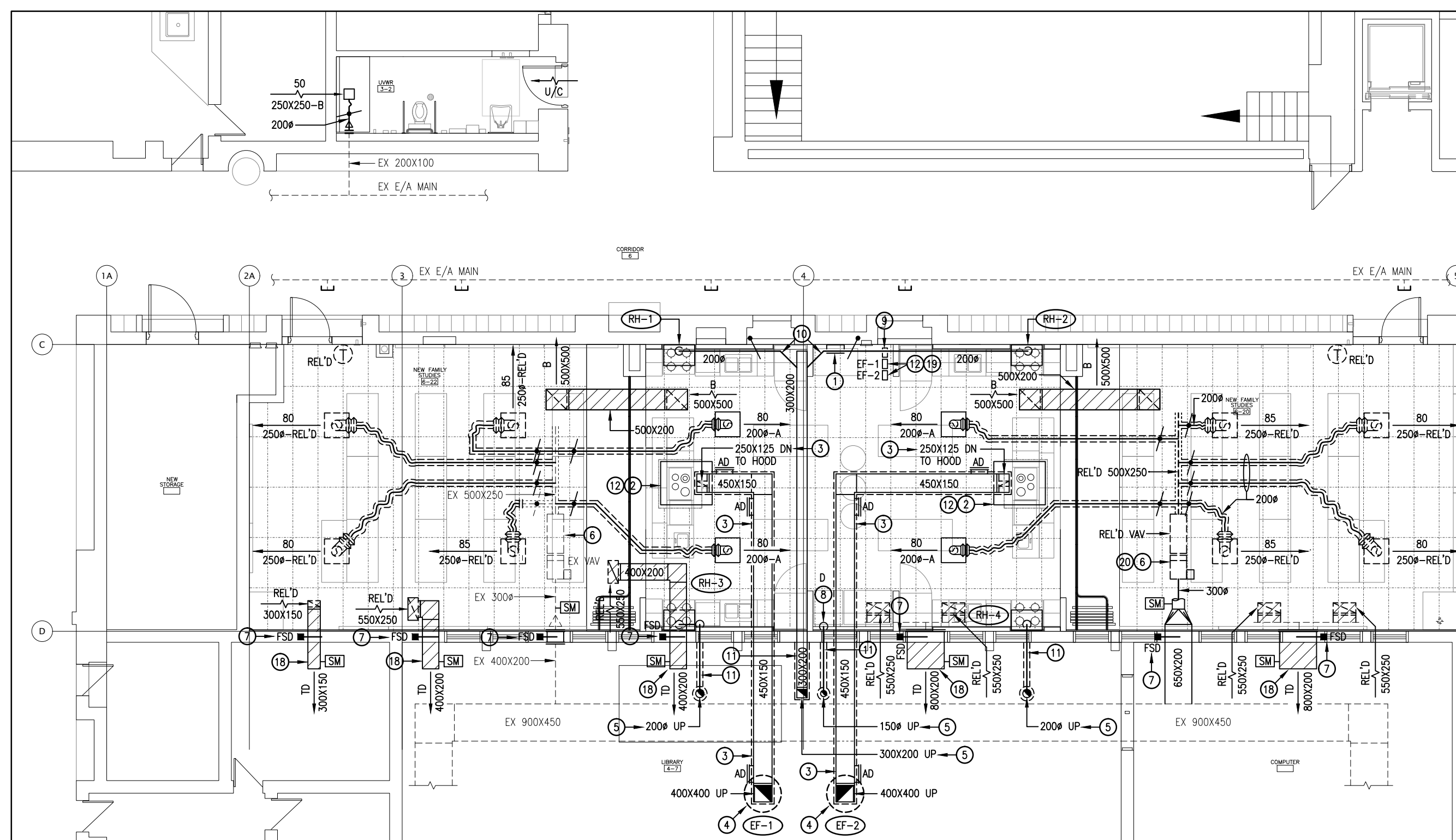
GENERAL NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.
- THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.
- THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.
- THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
- ALL DIMENSIONS GIVEN ARE IN METRIC.

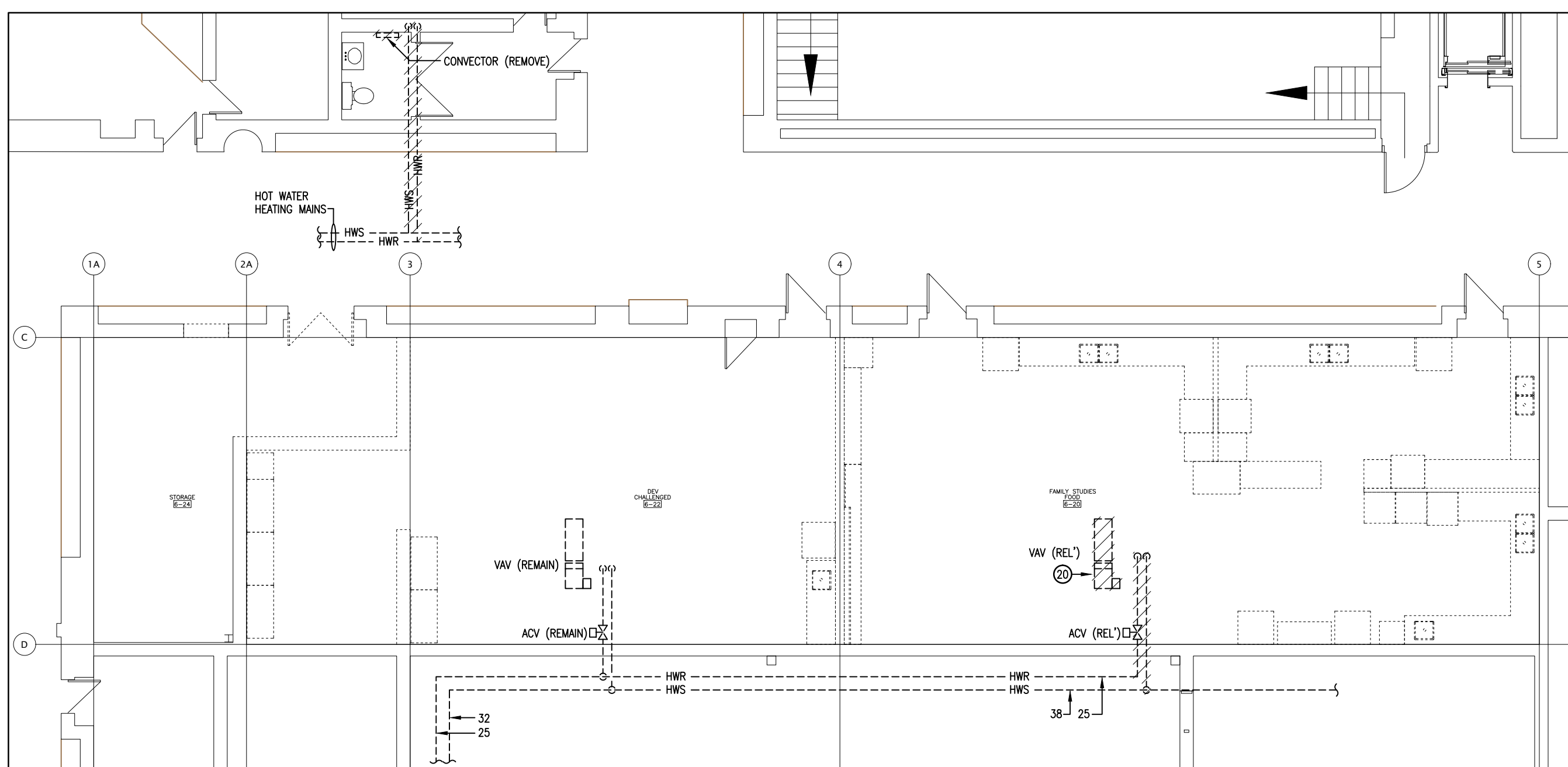


GROUND FLOOR HVAC DEMOLITION PLAN
SCALE: 1:100

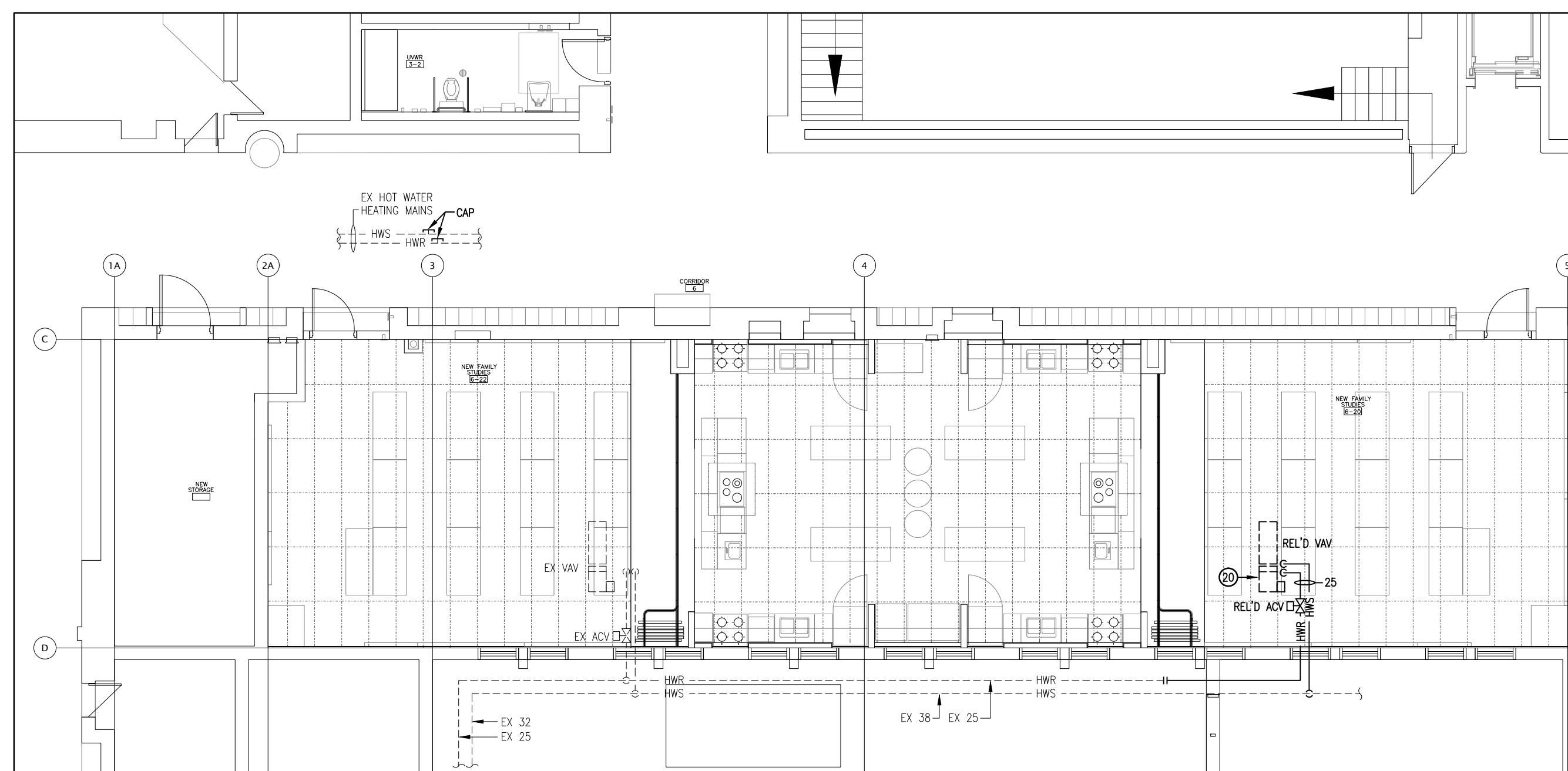
FAMILY STUDIES AREA



GROUND FLOOR HVAC RENOVATION PLAN
SCALE: 1:100



GROUND FLOOR HYDRONIC HEATING DEMOLITION PLAN
SCALE: 1:100



GROUND FLOOR HYDRONIC HEATING RENOVATION PLAN
SCALE: 1:100



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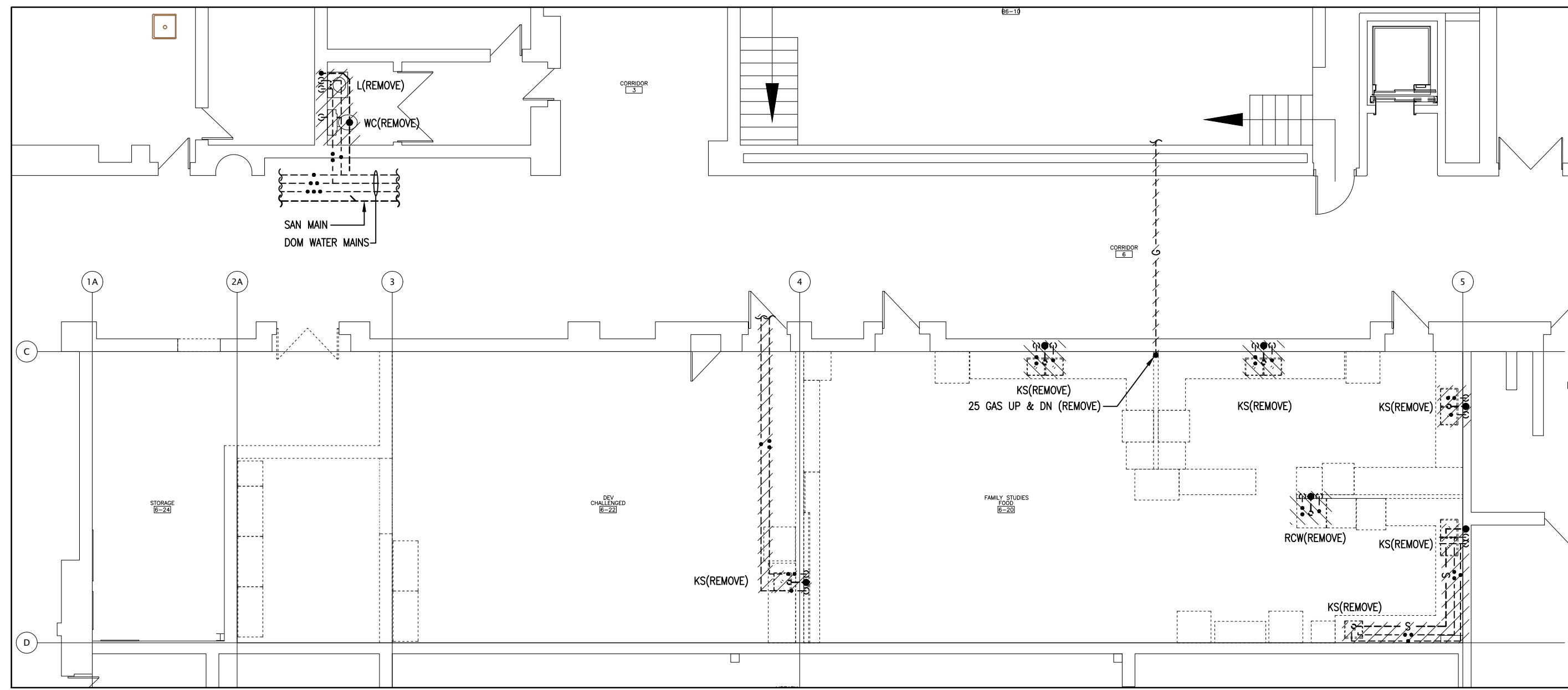


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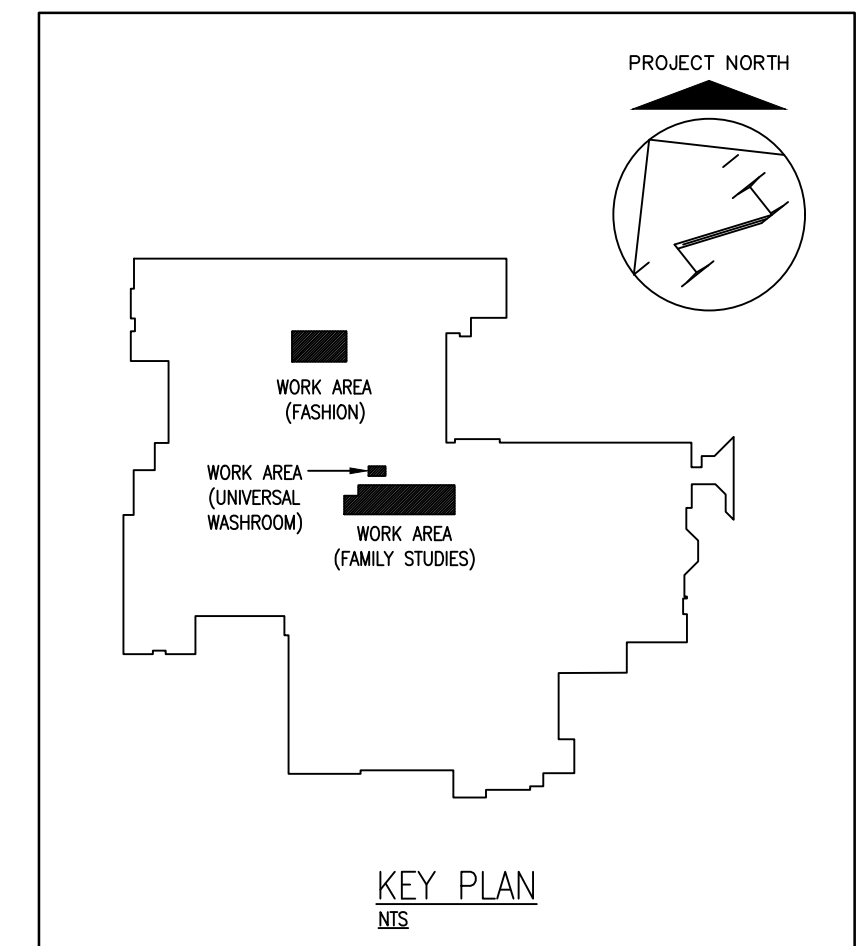
DRAWING TITLE:
PARTIAL MECHANICAL PLANS

PROJECT NO: 21044	SCALE: AS NOTED
DRAWN: J.Z.	DRAWING NO.: REV.
CHECKED: A.W.G.	M2.1
DATE: APR/21	

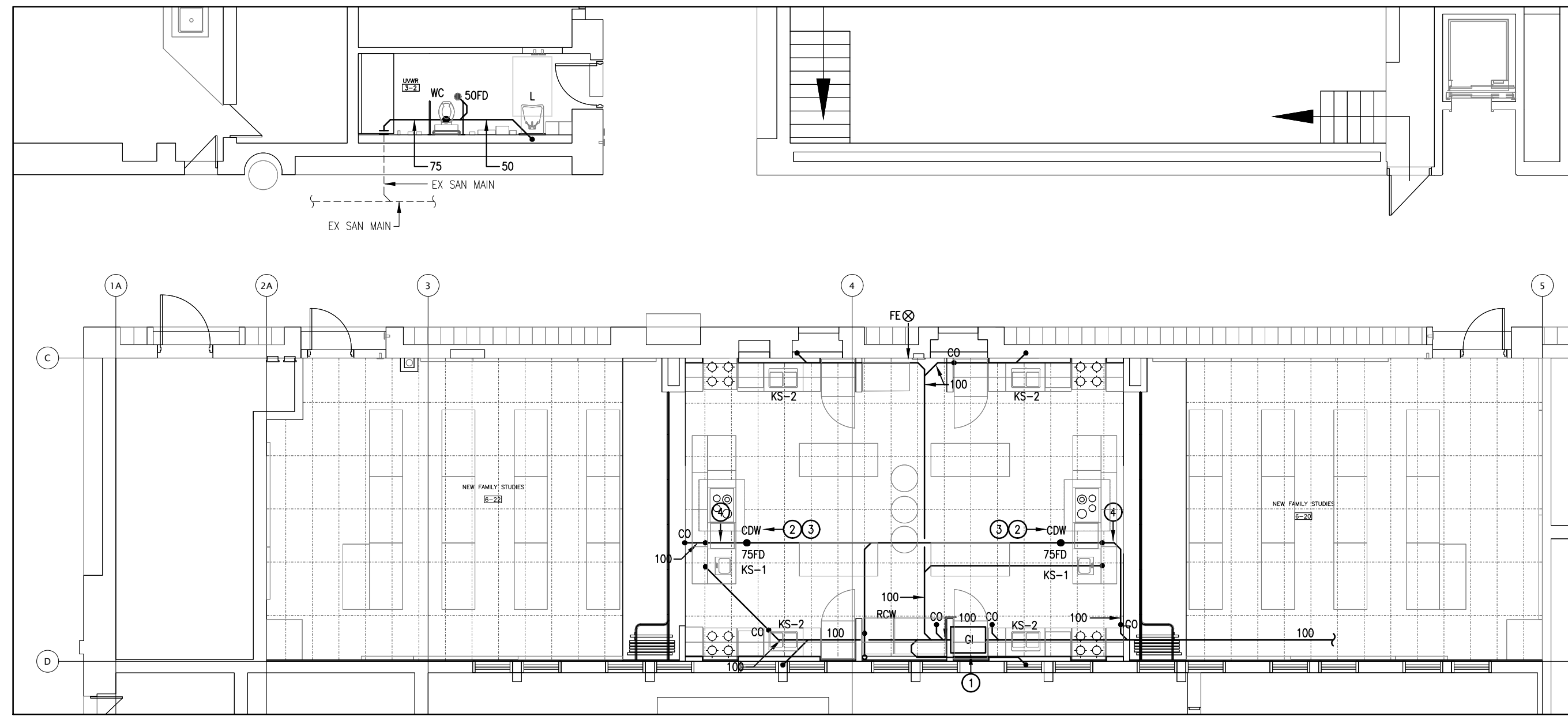


GROUND FLOOR PLUMBING DEMOLITION PLAN
SCALE: 1:100

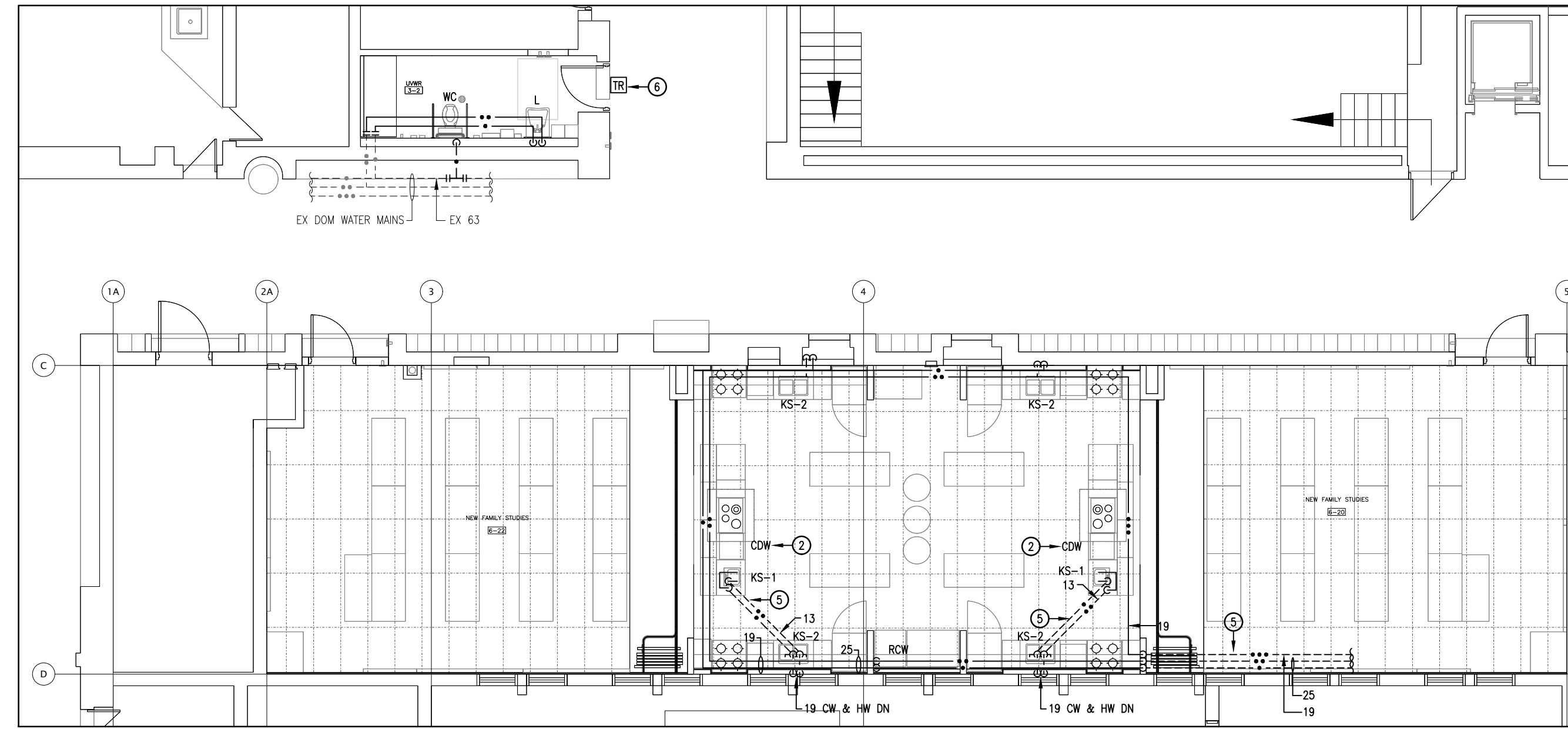
- DRAWING NOTES:
1. INSTALL GREASE INTERCEPTOR IN FLOOR FLOOR UNDER FRIDGE IN APPROX THIS LOCATION.
 2. CONNECT HOT WATER & SANITARY PIPING TO COMMERCIAL DISHWASHER AS PER DETAIL. TRANSITION PIPING SIZES AS REQ'D TO MATCH CONNECTION SIZES AS CLOSE AS POSSIBLE.
 3. COMMERCIAL DISHWASHER WASTE SHALL NOT PASS THRU GREASE INTERCEPTOR. VERIFY WITH LOCAL PLUMBING AUTHORITY ON SITE THAT DISHWASHER IS PERMITTED TO BYPASS INTERCEPTOR & NOTIFY CONSULTANT IMMEDIATELY WITH ANY CONCERNS.
 4. PIPING WITHIN 4.5M OF COMMERCIAL DISHWASHER SHALL BE COPPER OR CAST IRON TO PREVENT DAMAGE DUE TO HIGH TEMPERATURE WASTE. PLASTIC PIPING IS NOT PERMITTED.
 5. DOMESTIC PIPING RUN UNDERGROUND. JOINT SHALL NOT BE PERMIT WITHIN UNDERGROUND.
 6. PROVIDE TRANSFORMER FOR ELECTRONIC VALVE IN SUSPENDED CEILING SPACE. ALL POWER WIRING TO TRANSFORMER SHALL BE BY ELEC TRADE & ALL WIRING TO ELECTRONIC VALVE SHALL BE BY MECH TRADE.



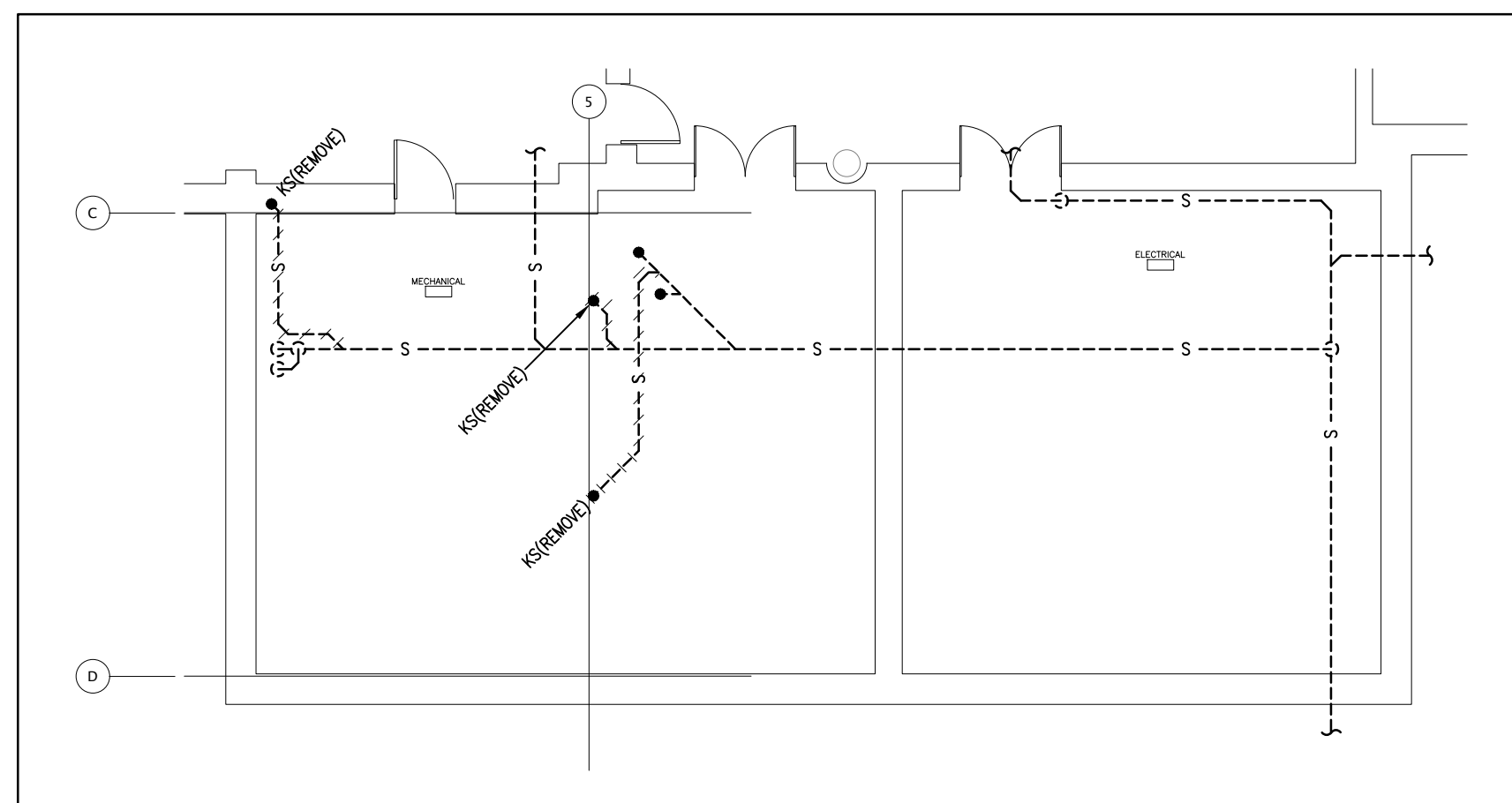
KEY PLAN
N/S



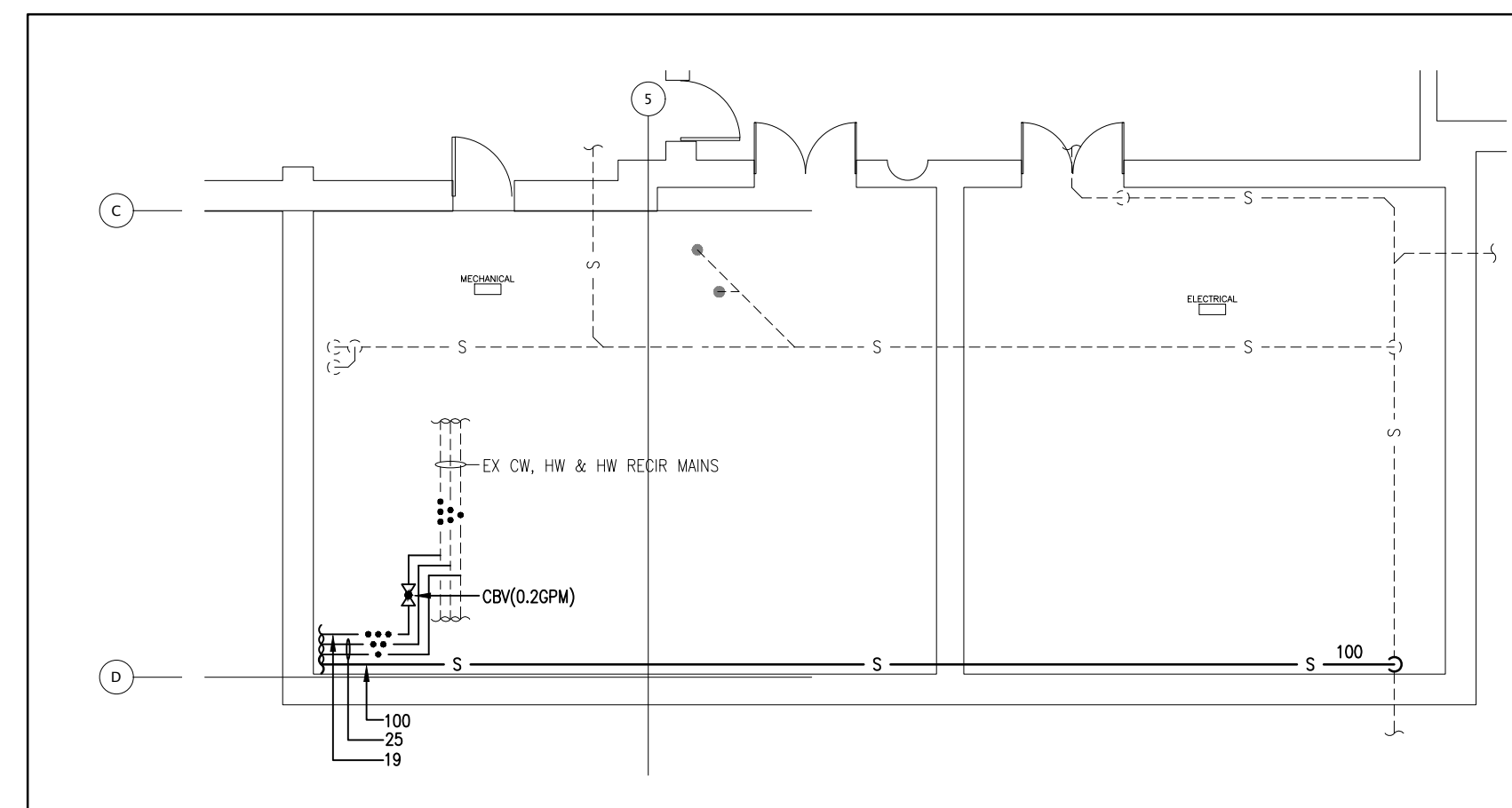
GROUND FLOOR DRAINAGE RENOVATION PLAN
SCALE: 1:100



GROUND FLOOR PIPING RENOVATION PLAN
SCALE: 1:100



BASEMENT DRAINAGE DEMOLITION PLAN
SCALE: 1:100



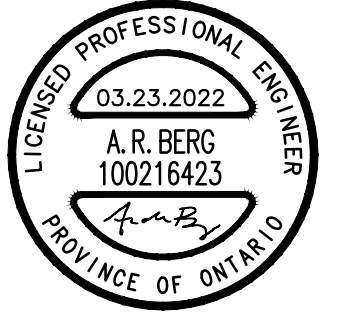
BASEMENT PLUMBING RENOVATION PLAN
SCALE: 1:100

FAMILY STUDY AREA

01	04.30.21	ISSUE FOR REVIEW
02	05.07.21	RE-ISSUED FOR TENDER #774-RW-21
03	03.23.22	RE-ISSUED FOR TENDER #774-RW-22

DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

- GENERAL NOTES:
1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.
 2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.
 3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
 4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.
 5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
 6. ALL DIMENSIONS GIVEN ARE IN METRIC.



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DRAWING TITLE:
PARTIAL MECHANICAL PLANS

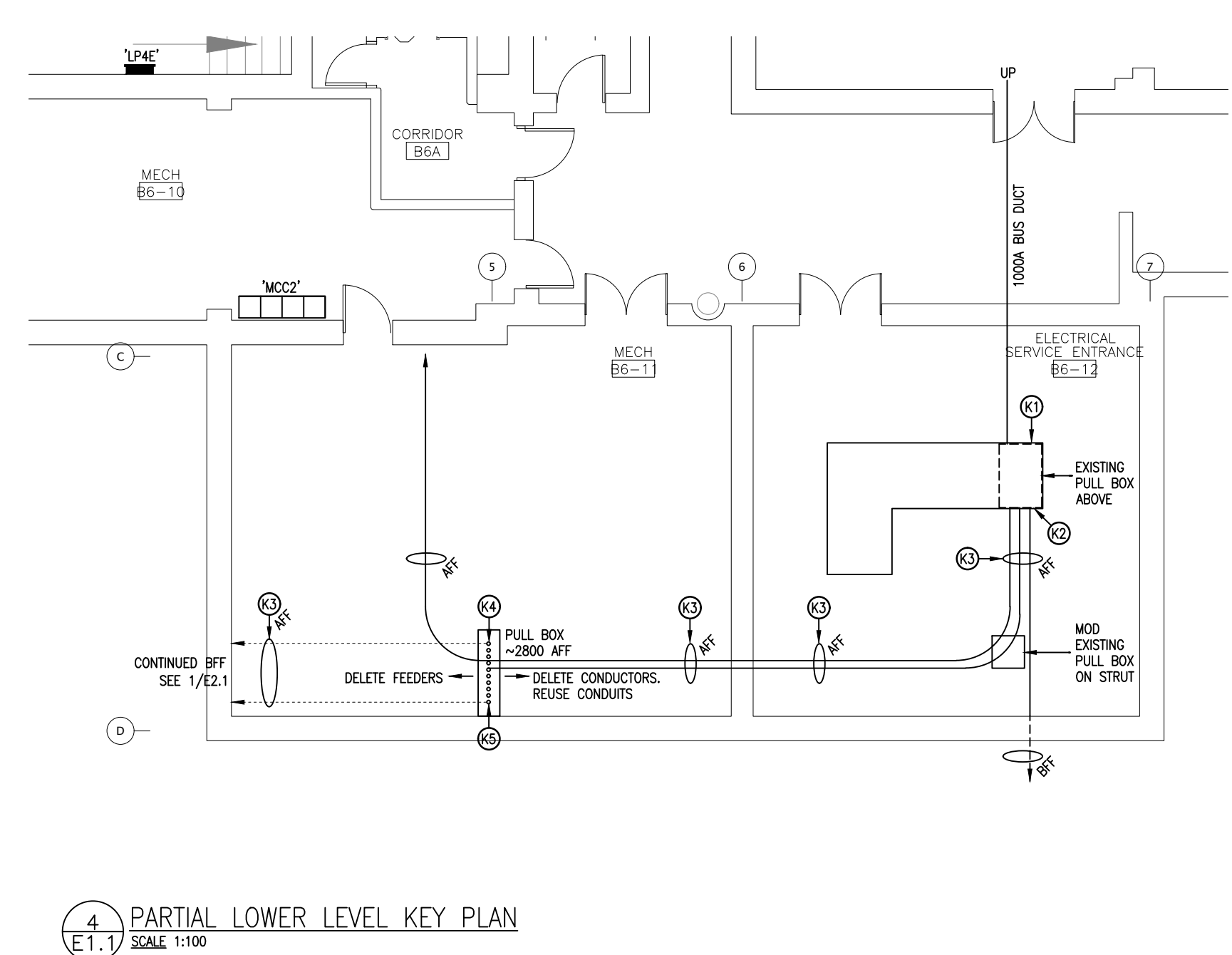
PROJECT NO: 21044	SCALE: AS NOTED
DRAWN: J.Z.	DRAWING NO.: REV.
CHECKED: A.W.G.	M2.2
DATE: APR/21	

DATE PLOTTED: Thursday, March 24, 2022

ELECTRICAL LEGEND					
USE	SYMBOL	DESCRIPTION	USE	SYMBOL	DESCRIPTION
LIGHTING			RECEPTACLES		
✓	[Symbol]	LINEAR LUMINAIRE 'x'	✓	[Symbol]	DUPLEX RECEPTACLE
✓	[Symbol]	SURFACE LINEAR LUMINAIRE 'x'	✓	[Symbol]	RECEPTACLE ABOVE MILLWORK
✓	[Symbol]	SUSPENDED LINEAR LUMINAIRE 'x'	✓	[Symbol]	RECEPTACLE IN KICK SPACE
✓	[Symbol]	CEILING MOUNTED LUMINAIRE 'x'	✓	[Symbol]	SPLIT RECEPTACLE
✓	[Symbol]	WALL MOUNTED LUMINAIRE 'x'	✓	[Symbol]	GFCI RECEPTACLE
✓	[Symbol]	POLE MOUNTED LUMINAIRE 'x'	✓	[Symbol]	UPS-BACKED RECEPTACLE
✓	[Symbol]	SPOT OR FLOOD LUMINAIRE 'x'	✓	[Symbol]	RECEPTACLE, 20A, 1-SLOT
✓	[Symbol]	WALL SCIENCE LUMINAIRE 'x'	✓	[Symbol]	TAMPER RESISTANT RECEPTACLE
✓	[Symbol]	NIGHT LUMINAIRE	✓	[Symbol]	2-POLE OR 3-POLE RECEPTACLE
✓	[Symbol]	EMERGENCY LUMINAIRE - WALL	✓	[Symbol]	FLOOR/TABLE MOUNTED OUTLET
✓	[Symbol]	EMERGENCY LUMINAIRE - CEILING	✓	[Symbol]	CEILING/DECK MOUNTED OUTLET
✓	[Symbol]	EMERGENCY BATTERY PACK 'x'	✓	[Symbol]	RACEWAY POWER OUTLET
✓	[Symbol]	EXIT SIGN 'x'	EQUIPMENT & DISTRIBUTION		
SWITCHING & CONTROLS			EQUIPMENT & DISTRIBUTION		
✓	[Symbol]	SWITCH	✓	[Symbol]	MOTOR
✓	[Symbol]	MULTIPLE GANG SWITCHES	✓	[Symbol]	NON-FUSED DISCONNECT SWITCH
✓	[Symbol]	3-WAY SWITCH	✓	[Symbol]	FUSED DISCONNECT SWITCH
✓	[Symbol]	4-WAY SWITCH	✓	[Symbol]	MANUAL STARTER
✓	[Symbol]	SWITCH 'x'	✓	[Symbol]	COMBINATION STARTER
✓	[Symbol]	KEY SWITCH	✓	[Symbol]	MAGNETIC STARTER
✓	[Symbol]	PILOT LIGHTED SWITCH	✓	[Symbol]	RELAY/CONTACTOR
✓	[Symbol]	OCCUPANCY/VACANCY SENSOR 'x'	✓	[Symbol]	EQUIPMENT IDENTIFIER
✓	[Symbol]	DAYLIGHT SENSOR	✓	[Symbol]	DISTRIBUTION PANEL
✓	[Symbol]	PHOTO CELL	✓	[Symbol]	ELECTRIC BASEBOARD HEATER
✓	[Symbol]	DIMMER SWITCH 'x'	✓	[Symbol]	ELECTRIC FAN FORCED HEATER
✓	[Symbol]	VARIABLE SPEED CONTROLLER	✓	[Symbol]	ELECTRIC HEATER IDENTIFIER
✓	[Symbol]	TIME SWITCH	✓	[Symbol]	CONDUIT ABOVE GRADE
✓	[Symbol]	TIME CLOCK	✓	[Symbol]	CONDUIT BELOW GRADE
✓	[Symbol]	PUSH BUTTON SWITCH	✓	[Symbol]	PROTECTIVE GUARD
✓	[Symbol]	THERMOSTAT (R=REVERSE ACTING)	✓	[Symbol]	JUNCTION BOX
✓	[Symbol]	PRESTAT	✓	[Symbol]	SERVICE POLE
✓	[Symbol]	POWER DOOR OPERATOR CONTROL	✓	[Symbol]	CLOCK
✓	[Symbol]	POWER DOOR INDICATOR/LOCK CONTROL	✓	[Symbol]	DIRECT CONNECTION
✓	[Symbol]	CALL STATION	✓	[Symbol]	BAS RELAY
✓	[Symbol]	EMERGENCY PUSH BUTTON	COMMUNICATIONS & IT		
COMMUNICATIONS & IT			FIRE ALARM & DETECTION		
✓	[Symbol]	VOICE OUTLET	✓	[Symbol]	ADDRESSABLE SMOKE DETECTOR
✓	[Symbol]	DATA OUTLET	✓	[Symbol]	ADDRESSABLE FIXED HEAT DETECTOR
✓	[Symbol]	DATA & VOICE OUTLET	✓	[Symbol]	ADDRESSABLE R.O.R. HEAT DETECTOR
✓	[Symbol]	AUDIO/VIDEO INLET/OUTLET	✓	[Symbol]	CONVENTIONAL SMOKE DETECTOR
✓	[Symbol]	OUTLET ABOVE MILLWORK	✓	[Symbol]	CONVENTIONAL FIXED HEAT DETECTOR (H-HIGH TEMP)
✓	[Symbol]	FLOOR/TABLE MOUNTED OUTLET	✓	[Symbol]	CONVENTIONAL R.O.R. HEAT DETECTOR (H-HIGH TEMP)
✓	[Symbol]	CEILING/DECK MOUNTED OUTLET	✓	[Symbol]	DETECTOR WITH RELAY BASE
✓	[Symbol]	RACEWAY COMMUNICATIONS OUTLET	✓	[Symbol]	DETECTOR WITH DUCT HOUSING
✓	[Symbol]	MICROPHONE/MIXER	✓	[Symbol]	ADDRESSABLE PULL STATION
✓	[Symbol]	PUBLIC ADDRESS CEILING SPEAKER	✓	[Symbol]	CONVENTIONAL PULL STATION
✓	[Symbol]	ASSISTIVE LISTENING CEILING SPEAKER	✓	[Symbol]	INPUT MODULE
✓	[Symbol]	ASSISTIVE LISTENING RECEIVER/AMPLIFIER	✓	[Symbol]	RELAY MODULE
✓	[Symbol]	ASSISTIVE LISTENING DOME SENSOR	✓	[Symbol]	ADDRESSABLE ZONE ISOLATOR
✓	[Symbol]	WALL SPEAKER 'x'	✓	[Symbol]	ELECTRONICALLY SUPERVISED VALVE
✓	[Symbol]	VOLUME ATTENUATOR	✓	[Symbol]	LOW PRESSURE SWITCH
✓	[Symbol]	DOOR/PROGRAM BELL	✓	[Symbol]	FLOW SWITCH
✓	[Symbol]	AUDIO/VISUAL BEACON	✓	[Symbol]	BELL
✓	[Symbol]	HANGER	✓	[Symbol]	BELL/STROBE
✓	[Symbol]	PROJECTOR 'x'	✓	[Symbol]	HORN
✓	[Symbol]	VIDEO DISPLAY SCREEN 'x'	✓	[Symbol]	HORN/STROBE
SECURITY			✓	[Symbol]	SPEAKER
✓	[Symbol]	SURVEILLANCE CAMERA 'x'	✓	[Symbol]	SPEAKER/STROBE
✓	[Symbol]	CARD PROXIMITY READER	✓	[Symbol]	STROBE
✓	[Symbol]	FOB PROXIMITY READER	✓	[Symbol]	SPECIAL FUNCTION SIGNAL
✓	[Symbol]	ELECTRIC EGRESS DEVICE	✓	[Symbol]	SIGNALING DEVICE - CEILING
✓	[Symbol]	ELECTROMAGNETIC LOCK	✓	[Symbol]	END OF LINE RESISTOR
✓	[Symbol]	DOOR CONTACT	✓	[Symbol]	LOW VOLTAGE LINE PROTECTOR
✓	[Symbol]	DOOR STRIKE	✓	[Symbol]	FIRE/SMOKE DAMPER
✓	[Symbol]	MOTION SENSOR	✓	[Symbol]	FIRE FIGHTER EMERGENCY TELEPHONE
✓	[Symbol]	ELECTRONIC KEYPAD	✓	[Symbol]	DOOR HOLDER
✓	[Symbol]	SIREN	✓	[Symbol]	DOOR CLOSER
✓	[Symbol]	INTEGRATION MODULE BOX	✓	[Symbol]	SMOKE ALARM
✓	[Symbol]	NURSE CALL DOME LIGHT	✓	[Symbol]	SMOKE/CARBON MONOXIDE ALARM
INCIDENTALS			INCIDENTALS		
✓	[Symbol]	ER EXISTING, TO REMAIN UNCHANGED	✓	[Symbol]	AFG ABOVE FINISHED GRADE
✓	[Symbol]	REL EXISTING, TO BE RELOCATED	✓	[Symbol]	AFF ABOVE FINISHED FLOOR
✓	[Symbol]	RELO RELOCATED	✓	[Symbol]	AFD ABOVE FINISHED CEILING
✓	[Symbol]	MOD EXISTING, TO BE MODIFIED	✓	[Symbol]	BFG BELOW FINISHED GRADE
✓	[Symbol]	DEL EXISTING, TO BE DELETED	✓	[Symbol]	BFD BELOW FINISHED FLOOR
✓	[Symbol]	WET LOCATION (*CATEGORY 1)	✓	[Symbol]	BFC BELOW FINISHED CEILING
✓	[Symbol]	CORROSIVE LOCATION (*CATEGORY 2)	✓	[Symbol]	WP WEATHER PROOF

ELECTRICAL DRAWING LIST:

E1.1 ELECTRICAL KEY PLANS & LEGEND
E2.1 PARTIAL EXISTING ELECTRICAL PLAN
E2.2 PARTIAL EXISTING ELECTRICAL PLAN
E3.1 PARTIAL REVISED ELECTRICAL PLAN
E3.2 PARTIAL REVISED ELECTRICAL PLAN
E4.1 POWER DISTRIBUTION SCHEDULES
E4.2 DETAILS, SCHEDULES & SCHEMATICS

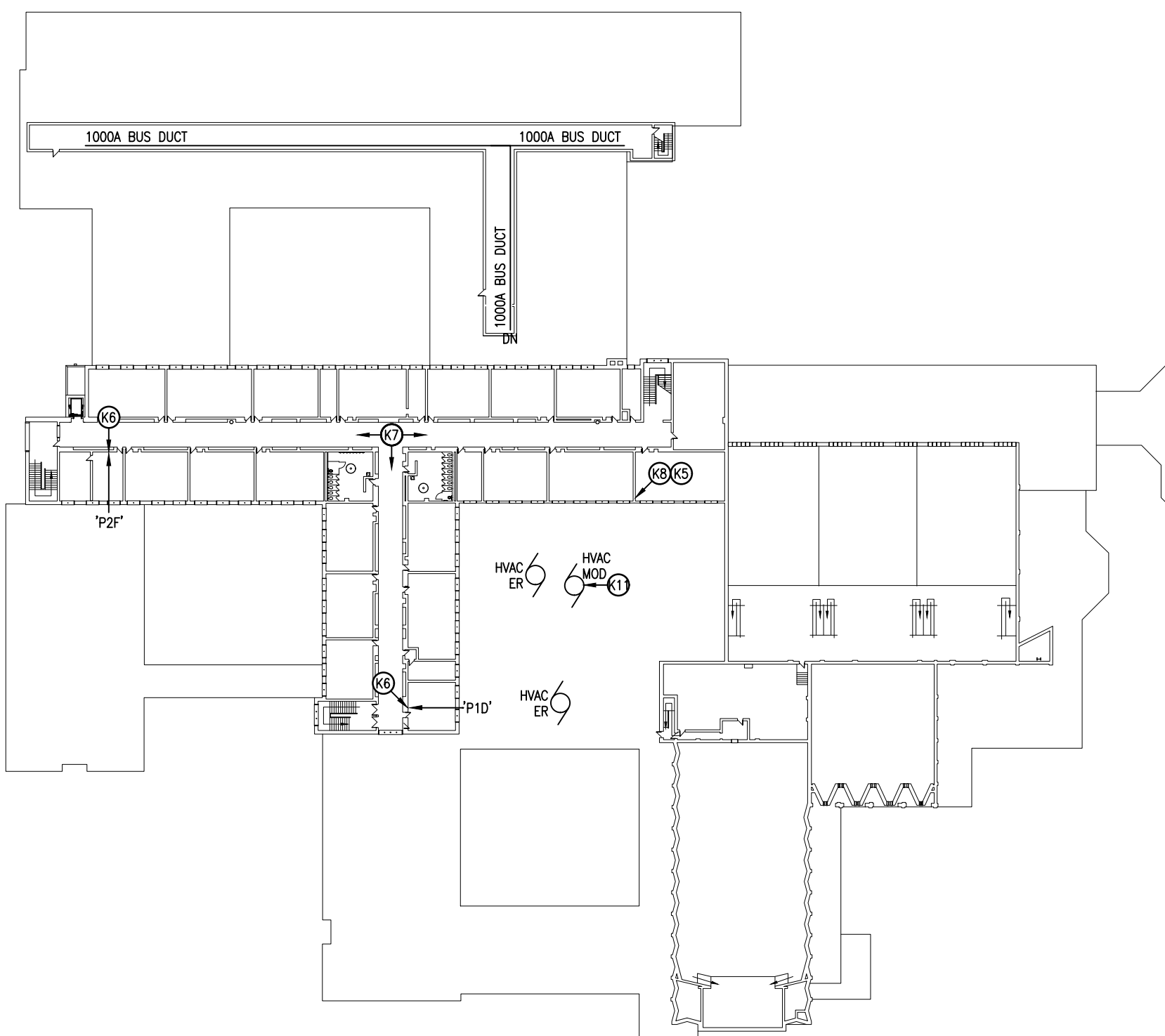


4 E1.1 PARTIAL LOWER LEVEL KEY PLAN
SCALE 1:100

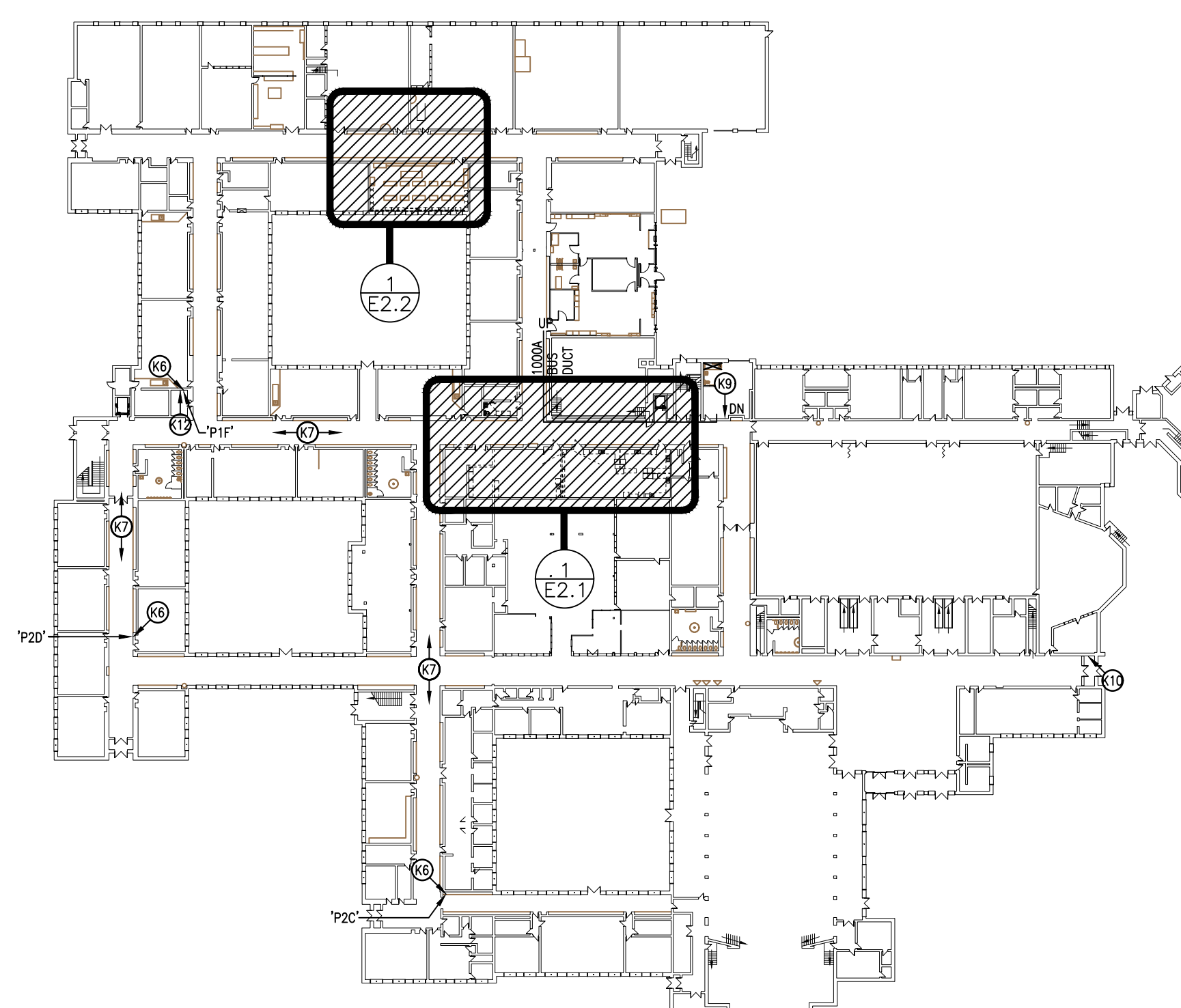
KEY PLAN NOTES

- MODIFY EXISTING 1200A, 120/208V, 3-PHASE/4-WIRE, FPE COP-R DISTRIBUTION BOARD AS FOLLOWS:
 - REUSE EXISTING 150A-3P BREAKERS SERVING 'LP-1E' & 'LP-2E'. PROVIDE NEW LABELS.
 - REUSE EXISTING 200A-3P BREAKER SERVING 'LP-1F'. PROVIDE NEW LABEL.
 - REWORK EXISTING TOP-MOUNT PULL BOX AS REQUIRED.
 - SCHEDULE SHUTDOWN AS PER SPECIFICATIONS.
- MODIFY EXISTING 1200A, 120/208V, 3-PHASE/4-WIRE, FPE COP-R DISTRIBUTION BOARD AS FOLLOWS:
 - PROVIDE NEW 'SPARE' LABEL FOR EXISTING 70A-3P BREAKER SERVING 'LP-5E'.
 - REUSE EXISTING 100A-3P BREAKER SERVING 'LP-2F'. PROVIDE NEW LABEL.
 - CONFIRM 100A-3P BREAKERS SERVING 'LP-1D', 'LP-2D' & 'LP-2C' & REUSE. PROVIDE NEW LABELS.
 - REWORK EXISTING TOP-MOUNT PULL BOX AS REQUIRED.
 - SCHEDULE SHUTDOWN AS PER SPECIFICATIONS.
- APPROXIMATE ROUTE OF EXISTING FEEDERS (NOT ALL INDICATED). CONFIRM QUANTITIES, ARRANGEMENT, ROUTE AND INTERFERENCES ON SITE. MODIFY AS FOLLOWS:
 - DELETE CONDUCTORS SERVING EACH OF THE EIGHT DISTRIBUTION PANELS OUTLINED ABOVE.
 - MAINTAIN ALL OTHER FEEDERS (CONDUIT & CONDUCTORS).
 - REUSE RIGID THREADED CONDUITS (RTO) & ASSOCIATED SUPPORTS BETWEEN BOARD AND NEW PULL BOX.
 - DELETE CONDUITS DOWNSTREAM OF NEW PULL BOX. PATCH BUILDING PENETRATIONS.
- PROVIDE NEW SUSPENDED PULL BOX & RE-TERMINATE TEN (10) RTC FOR REUSE FROM BOARD. CORE EXISTING STRUCTURE TO PROVIDE NEW RISER CONDUITS. NEW VERTICAL SERVICE SPACES (SHAFTS) PROVIDED BY OTHERS ON FLOORS ABOVE. REFER TO 1/E3.1 FOR CONTINUATION & COORDINATE WITH NEW DIVISION 22 INSTALLATIONS.
- PROVIDE THE FOLLOWING FEEDERS FROM EXISTING BREAKERS:
 - 3-#1/0 + 1-#3/0 N 190 CU IN 53 EMT TO PANEL '1E'.
 - 3-#1/0 + 1-#3/0 N 190 CU IN 53 EMT TO PANEL '2E'.
 - 3-#4/0 + 1-#250 N 190 CU IN 53 EMT TO PANEL '1F'.
 - 3-#2 + 1-#1 N 190 CU IN 53 EMT TO PANEL '2F'.
 - 3-#2 + 1-#1 N 190 CU IN 53 EMT TO PANEL '1D'.
 - 4-#1 190 CU IN 53 EMT TO PANEL '2D'.
 - 4-#1 190 CU IN 53 EMT TO PANEL '2C'.
 - 3x53 EMT TO CORRIDOR 6 CEILING SPACE.
- DELETE DISTRIBUTION PANEL & REPLACE WITH NEW IN SAME LOCATION.
 - CUT & PATCH AS REQUIRED. FINISHING BY OTHERS.
 - RELOCATE CONDUITS, DEVICES, ETC. (NOT INDICATED) AS REQUIRED TO SUIT WIDER TUB.
 - REFER TO POWER DISTRIBUTION SCHEDULE.
- PROVIDE NEW FEEDERS (NOT INDICATED) ALONG THE SUGGESTED ROUTE.
 - REMOVE & REINSTALL LUMINAIRES, CEILING-MOUNTED DEVICES, 610x610 CEILING TILES & GRID AS REQUIRED.
 - PROVIDE PULL BOXES (NOT INDICATED) AS REQUIRED.
 - OFFSET AS REQUIRED TO AVOID EXISTING AFC SERVICES. DETERMINE OPTIMAL ROUTE ON SITE.
 - FIRE STOP ALL RATED PENETRATIONS.
- RELOCATE DUPLEX RECEPTACLE, DATA & AUDIO/VIDEO BOXES WITH ASSOCIATED SURFACE RACEWAY (NOT INDICATED) TO SUIT NEW VERTICAL SERVICE SPACE (SHAFT) BY OTHERS. EXTEND NEW SECOND FLOOR FEEDERS UP TO CLASSROOM 56-2 ACCESSIBLE CEILING. PROVIDE PULL BOX & CONTINUE TO CORRIDOR 56.
- MODIFY EXISTING EDWARDS EST3 FIRE ALARM CONTROL PANEL (FACP) IN 6-17 AS FOLLOWS:
 - DELETE CONVENTIONAL INITIATING DEVICES WITHIN WORK AREAS.
 - MODIFY EXISTING & PROVIDE NEW SIGNALING DEVICES WITHIN THE AFFECTED AREAS.
 - PROVIDE NEW 'FAMILY STUDIES FIRE SUPPRESSION SYSTEM' INITIATING ZONE.
 - PROVIDE NEW 'LIBRARY HVAC SMOKE DAMPERS' INITIATING ZONE.
 - CONNECT NEW 'FAMILY STUDIES INITIATING DEVICES' TO EXISTING 'SCHOOL CORE' INITIATING ZONE 2.
 - CONNECT NEW 'FASHION STUDIES INITIATING DEVICES' TO EXISTING 'TECH WING' INITIATING ZONE 1.
 - PROVIDE SYSTEM VERIFICATIONS & INTEGRATED TESTS.
- MODIFY EXISTING FIRE ALARM ANNUNCIATOR TO REFLECT THE NEW INITIATING ZONES.
- PROVIDE NEW FIRE ALARM INTERLOCK TO EXISTING ROOFTOP HVAC UNIT SERVING LIBRARY & ADJACENT SPACES. REFER TO 'SMOKE DAMPER SCHEMATIC'.
- DELETE ADJACENT, REDUNDANT ENCLOSURE USED AS A PULL BOX.

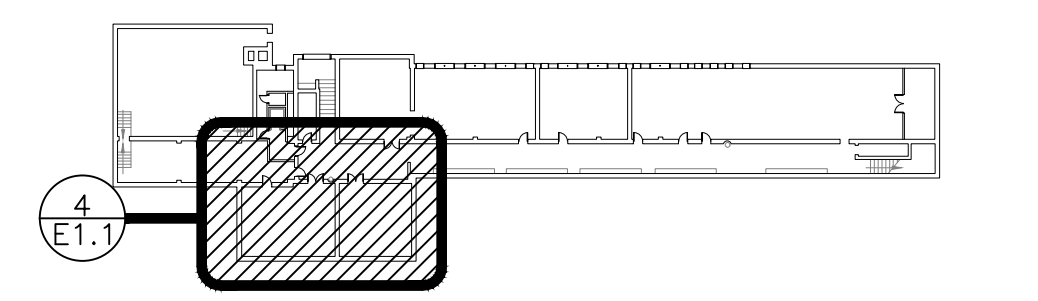
ALLOWANCES
ALLOWANCES FOR VARIOUS DIVISION 26, 27 & 28 WORKS ARE CARRIED UNDER DIVISION 01. REFER TO SPECIFICATIONS FOR DETAILS.



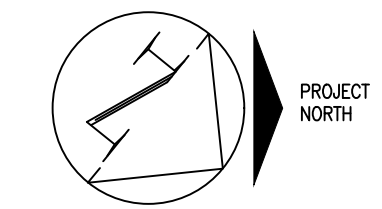
3 E1.1 SECOND FLOOR KEY PLAN
SCALE 1:750



2 E1.1 GROUND FLOOR KEY PLAN
SCALE 1:750



1 E1.1 LOWER LEVEL KEY PLAN
SCALE 1:750



NO.	DATE	REVISION
01	04.30.21	ISSUE FOR REVIEW
02	05.07.21	ISSUE FOR PERMIT AND TENDER #7174R-21
03	03.31.21	RE-ISSUED FOR TENDER #7174R-22

DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.
- THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.
- THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.
- THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
- ALL DIMENSIONS GIVEN ARE IN METRIC.



Kingsland + ARCHITECTS INC.

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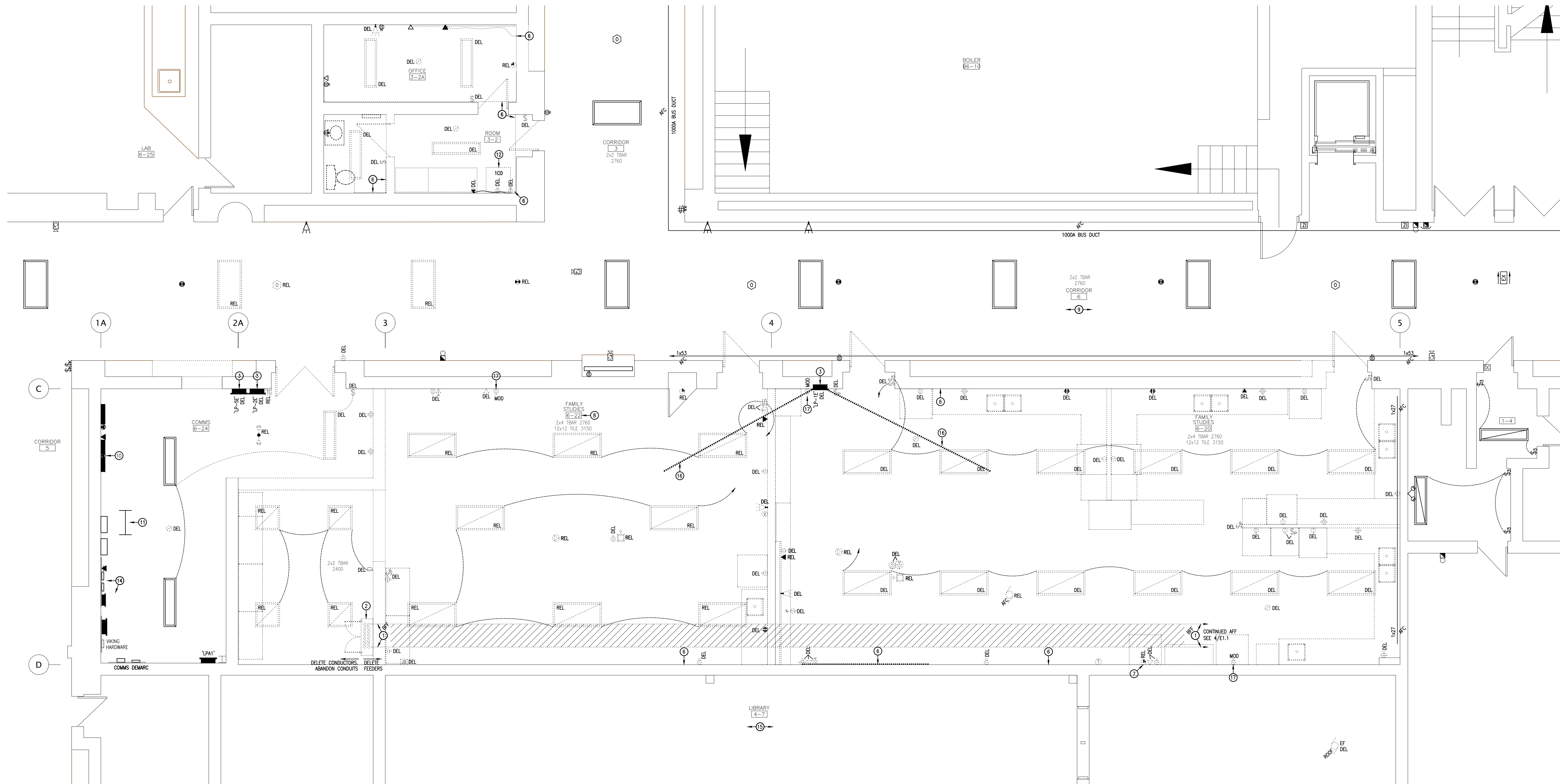


FOREST HEIGHTS COLLEGIATE INSTITUTE
FAMILY STUDIES RENOVATION AND BARRIER-FREE WASHROOM

255 Fischer-Hallman Rd.
Kitchener, ON N2M 4K8

DRAWING TITLE: ELECTRICAL KEY PLANS & LEGEND

PROJECT NO: 21044	SCALE: AS NOTED
DRAWN: A.W.G.	DRAWING NO.: REV.
CHECKED: A.W.G.	E1.1
DATE: APR/21	



1 PARTIAL EXISTING ELECTRICAL PLAN
 E2.1 SCALE: 1:50

EXISTING DRAWING NOTES:

- ① MAKE SAFE EXISTING FEEDERS (CONDUIT & CONDUCTORS) PRIOR TO ANY FLOOR CUTTING. APPROXIMATE ROUTE INDICATED. SCAN TO CONFIRM ROUTE.
- ② DELETE EXISTING PULL BOX, ASSOCIATED FEEDERS & BRANCH WIRING. CONDUITS HAVE BEEN LABELED WITHIN BOX TO INDICATE CONNECTED LOADS.
 - * EXCAVATE TO CUT BACK - SIXTEEN CONDUITS 300 BFF.
 - * COORDINATE REMOVAL OF UPSTREAM CONDUITS WITH NEW DIVISION 23 INSTALLATIONS.
 - * ABANDON DOWNSTREAM CONDUITS.
 - * SCHEDULE SHUTDOWN AS PER SPECIFICATIONS.
- ③ DELETE EXISTING DISTRIBUTION PANEL/LOAD CENTRE & ASSOCIATED FEEDERS.
 - * WHERE RECESSED, CUT & PATCH WALL TO SUIT WIDER TUB. FINISHING BY OTHERS.
 - * RELOCATE ADJACENT WIRING DEVICES (NOT ALL INDICATED) TO SUIT NEW PANEL.
 - * REFER TO POWER DISTRIBUTION SCHEDULES FOR BRANCH LOADS REQUIRED TO REMAIN.
- ④ MODIFY EXISTING 225A-4P SPLITTER, FED FROM BUS DUCT. REFER TO REVISED PLANS.
- ⑤ MODIFY LOAD CENTRE AS FOLLOWS:
 - * DELETE BRANCH WIRING SERVING RECEPTACLE LOADS IN ROOM 8-6.
 - * BREAKERS SHALL REMAIN AS SPARE. DELETE TAPE DUCT.
 - * PROVIDE UPDATED DIRECTORY.
- ⑥ DELETE SURFACE RACEWAY/PLUG STRIP & ALL ASSOCIATED BRANCH WIRING.
- ⑦ DELETE REDUNDANT BRANCH WIRING.
- ⑧ RELOCATE LUMINAIRES TO ROOM 8-6.
- ⑨ REMOVE & REINSTALL LUMINAIRES, CEILING-MOUNTED DEVICES, 610x610 CEILING TILES & GRID AS REQUIRED TO SUIT PROVISION OF NEW FEEDERS.
- ⑩ REWORK EXISTING CHUBB INTRUSION ALARM & ACCESS CONTROL EQUIPMENT & ASSOCIATED MOTION SENSORS. PROVIDE ROUGH-INS FOR NEW FIELD DEVICES PER REVISED PLAN.
- ⑪ EXISTING FLOOR RACK & ASSOCIATED TELEPHONE CABLING SHALL BE REWORKED BY OTHERS UNDER ALLOWANCE.
- ⑫ EXISTING WALL RACK & ASSOCIATED CABLING SHALL BE DELETED BY OTHERS UNDER ALLOWANCE.
 - * RACK IS UNDERSTOOD TO CONTAIN FIBRE, DATA, VOICE & SURVEILLANCE.
 - * TEMPORARY LINES SHALL BE PROVIDED BY OTHERS WHILE TRANSITIONING.
 - * DELETE ASSOCIATED WIRING DEVICES.
- ⑬ EXISTING WALL RACK & ASSOCIATED CABLING SHALL BE REWORKED BY OTHERS UNDER ALLOWANCE INCLUDING PROVISION OF NEW BACK BONE CABLING.
- ⑭ EXISTING PUBLIC ADDRESS EQUIPMENT & ASSOCIATED CABLING SHALL BE RELOCATED & REWORKED BY OTHERS UNDER ALLOWANCE.
- ⑮ REWORK EXISTING CEILING-MOUNTED LUMINAIRES/DEVICES, AND DECK MOUNTED SERVICES (NOT INDICATED) TO PERMIT MECHANICAL AND STRUCTURAL MODIFICATIONS BY OTHERS.
- ⑯ SAW CUT & PATCH FLOOR FOR NEW 'ISLAND' INSTALLATIONS. FINISHING BY OTHERS.
- ⑰ REUSE EXISTING OUTLET BOX FOR NEW DEVICE.

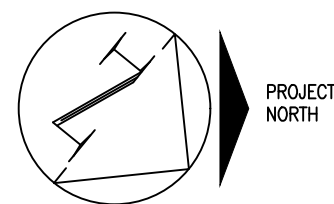
DESIGNATIONS
 EQUIPMENT, DEVICES & LUMINAIRES WITHOUT DESIGNATION ARE EXISTING TO REMAIN. ITEMS ARE INDICATED ONLY ON THIS PLAN FOR COORDINATION.

ASBESTOS ABATEMENT
 INCLUDE THE COST OF A WRDSB-APPROVED ASBESTOS CONTRACTOR FOR THE ABATEMENT OF ALL ASBESTOS CONTAINING MATERIAL (ACM) WITHIN A 600mm RADIUS OF ANY WORK BEING PERFORMED UNDER THIS CONTRACT. REFER TO THE DESIGNATED SUBSTANCES REPORT.

EXISTING EQUIPMENT
 MECHANICAL EQUIPMENT INDICATED TO BE DELETED SHALL BE REMOVED BY THE MECHANICAL SUBCONTRACTOR.

- * UNLESS OTHERWISE INDICATED, THE ELECTRICAL SUBCONTRACTOR SHALL DISCONNECT & REMOVE ALL LINE VOLTAGE POWER WIRING BACK TO POINT OF DISTRIBUTION. INCLUDE FOR DISCONNECTING ALL LINE VOLTAGE FEEDS TO CONTROL DEVICES.
- * ALL LOW VOLTAGE CONTROL CABLING SHALL BE REMOVED BY DIVISION 23.

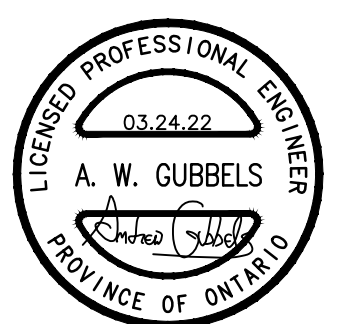
CONTINUITY OF SERVICES
 SYSTEM DOWNTIMES SHALL BE KEPT TO A MINIMUM. REFER TO DIVISION 26 SPECIFICATIONS FOR DETAILS.



03	03.23.22	RE-ISSUED FOR TENDER #774-RW-22
02	05.07.21	ISSUE FOR PERMIT AND TENDER #774-RW-21
01	04.30.21	ISSUE FOR REVIEW
		NO. DATE: REVISION

DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

- GENERAL NOTES**
1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.
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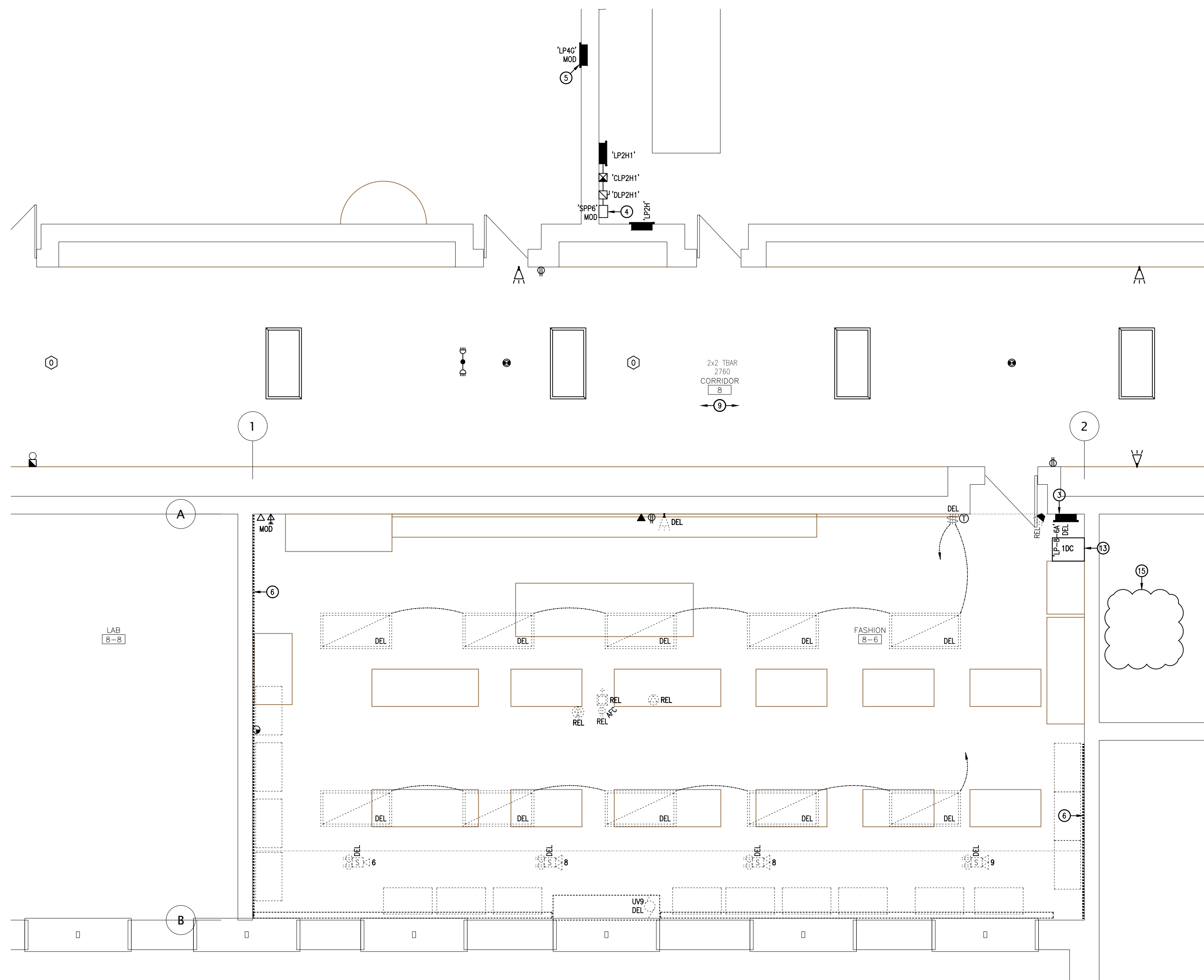
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255 Fischer-Hallman Rd.
 Kitchener, ON N2M 4K8

DRAWING TITLE:
PARTIAL EXISTING ELECTRICAL PLAN

PROJECT NO: 21044	SCALE: AS NOTED
DRAWN: A.W.G.	DRAWING NO.: REV.
CHECKED: A.W.G.	E2.1
DATE: APR/21	

DATE PLOTTED: March 24, 2022



1 PARTIAL EXISTING ELECTRICAL PLAN
SCALE: 1:50

EXISTING DRAWING NOTES:

- 1 MAKE SAFE EXISTING FEEDERS (CONDUIT & CONDUCTORS) PRIOR TO ANY FLOOR CUTTING. APPROXIMATE ROUTE INDICATED. SCAN TO CONFIRM ROUTE.
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 - * EXCAVATE TO CUT BACK -SIXTEEN CONDUITS 300 BFF.
 - * COORDINATE REMOVAL OF UPSTREAM CONDUITS WITH NEW DIVISION 23 INSTALLATIONS.
 - * ABANDON DOWNSTREAM CONDUITS.
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- 3 DELETE EXISTING DISTRIBUTION PANEL/LOAD CENTRE & ASSOCIATED FEEDERS.
 - * WHERE RECESSED, CUT & PATCH WALL TO SUIT WIDER TUB. FINISHING BY OTHERS.
 - * RELOCATE ADJACENT WIRING DEVICES (NOT ALL INDICATED) TO SUIT NEW PANEL.
 - * REFER TO POWER DISTRIBUTION SCHEDULES FOR BRANCH LOADS REQUIRED TO REMAIN.
- 4 MODIFY EXISTING 225A-4P SPLITTER, FED FROM BUS DUCT. REFER TO REVISED PLANS.
- 5 MODIFY LOAD CENTRE AS FOLLOWS:
 - * DELETE BRANCH WIRING SERVING RECEPTACLE LOADS IN ROOM 8-6.
 - * BREAKERS SHALL REMAIN AS SPARE. DELETE DUCT TAPE.
 - * PROVIDE UPDATED DIRECTORY.
- 6 DELETE SURFACE RACEWAY/PLUG STRIP & ALL ASSOCIATED BRANCH WIRING.
- 7 DELETE REDUNDANT BRANCH WIRING.
- 8 RELOCATE LUMINAIRES TO ROOM 8-6.
- 9 REMOVE & REINSTALL LUMINAIRES, CEILING-MOUNTED DEVICES, 610x610 CEILING TILES & GRID AS REQUIRED TO SUIT PROVISION OF NEW FEEDERS.
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- 15 REWORK EXISTING CEILING-MOUNTED LUMINAIRES/DEVICES, AND DECK MOUNTED SERVICES (NOT INDICATED) TO PERMIT MECHANICAL AND STRUCTURAL MODIFICATIONS BY OTHERS.
- 16 SAW CUT & PATCH FLOOR FOR NEW 'ISLAND' INSTALLATIONS. FINISHING BY OTHERS.
- 17 REUSE EXISTING OUTLET BOX FOR NEW DEVICE.

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 * ALL LOW VOLTAGE CONTROL CABLING SHALL BE REMOVED BY DIVISION 23.

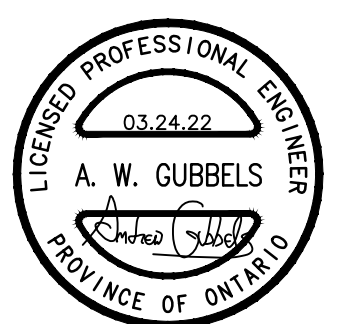
CONTINUITY OF SERVICES
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NO.	DATE	REVISION
01	04.30.21	ISSUE FOR REVIEW
02	05.07.21	ISSUE FOR PERMIT AND TENDER #774-RP-21
03	03.23.22	RE-ISSUED FOR TENDER #774-RW-22

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GENERAL NOTES

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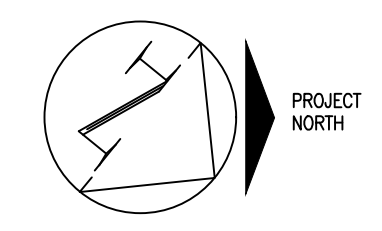


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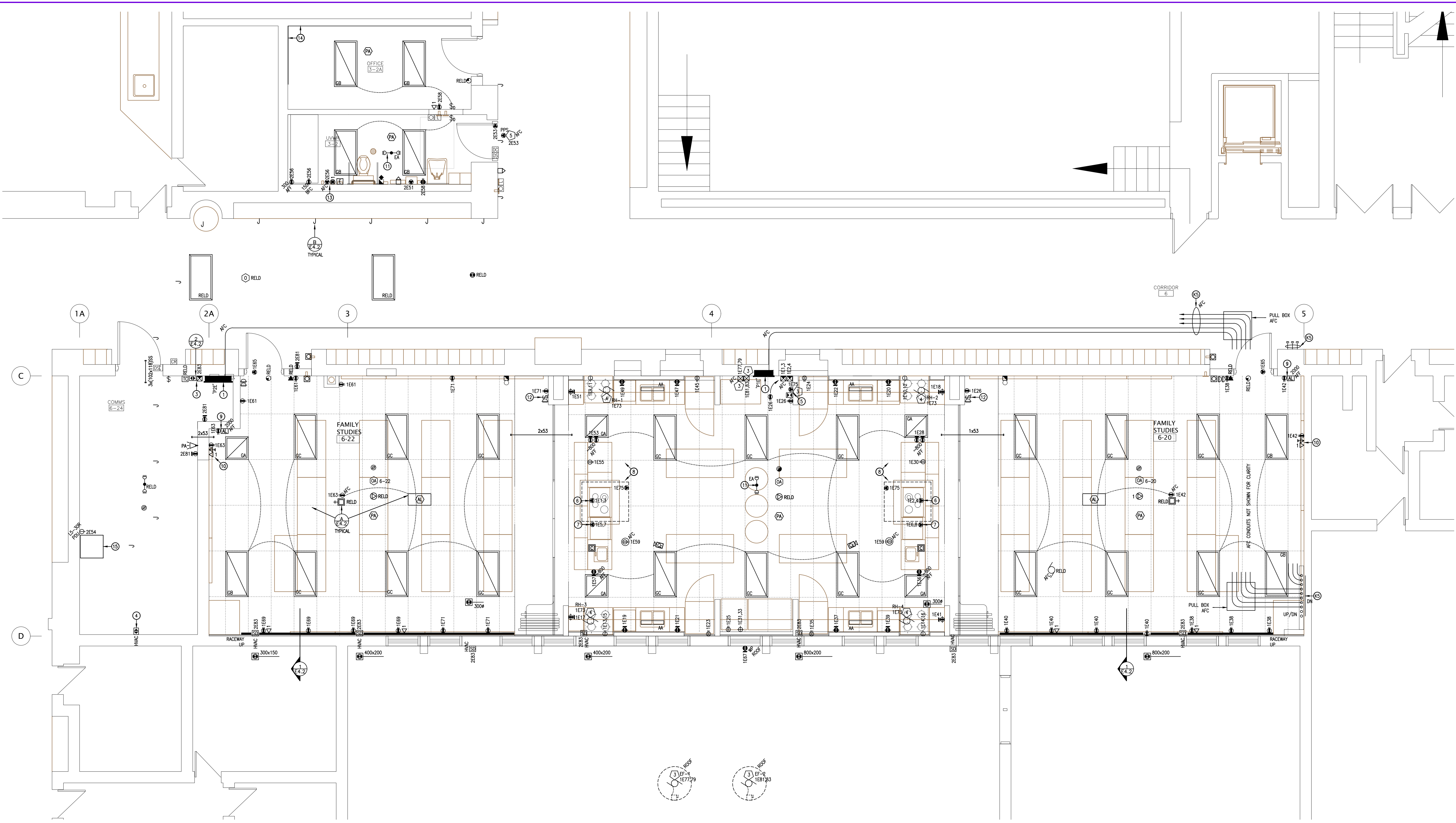


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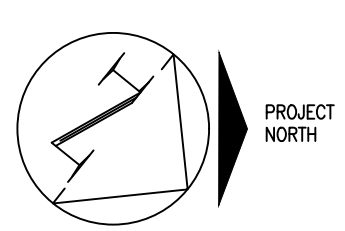
DRAWING TITLE: PARTIAL EXISTING ELECTRICAL PLAN	
PROJECT NO: 21044	SCALE: AS NOTED
DRAWN: A.W.G.	DRAWING NO.: REV.
CHECKED: A.W.G.	E2.2
DATE: APR/21	



DATE PLOTTED: March 24, 2022



1 PARTIAL REVISED ELECTRICAL PLAN
E.3.1 SCALE 1:50



REVISED DRAWING NOTES:

- 1 PROVIDE NEW POWER DISTRIBUTION. REFER TO PANEL SCHEDULE.
- 2 PROVIDE NEW POWER DISTRIBUTION AS FOLLOWS:
 - * 3-#6 + 1-#4 N T90 IN 27 EMT FROM SPLITTER LUGS TO NEW FUSED DISCONNECT SWITCH WITH 60A FUSES. MOUNT ABOVE EXISTING.
 - * 3-#6 + 1-#4 N T90 IN 27 EMT FROM DISCONNECT TO NEW PANEL 8-6. REMOVE EXISTING 300x300 CEILING TILES AS REQUIRED. FIRE STOP RATED PENETRATIONS.
- 3 REFER TO 'SMOKE DAMPER WIRING SCHEMATIC'. CONNECT NEW DETECTORS TO LOCAL INITIATING ZONE.
- 4 PROVIDE CLEARLY LABELED FIRE ALARM RELAY & CONNECTIONS. COORDINATE WITH DIVISION 25 FOR EQUIPMENT SHUTDOWN.
- 5 PROVIDE CONNECTION TO KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTROL PANELS PROVIDED BY OTHERS.
 - * CONNECT SO THAT AN ALARM CONDITION IS SENT TO THE FIRE ALARM SYSTEM WHEN THE SUPPRESSION SYSTEM IS ACTIVATED. ZONE INDEPENDENTLY.
 - * PROVIDE CONTROL WIRING FROM AUXILIARY CONTACTS TO SUITABLY SIZED POWER CONTACTORS. PROVIDE POWER WIRING SUCH THAT LOADS BENEATH THE KITCHEN HOODS ARE DE-ENERGIZED WHEN THE SUPPRESSION SYSTEM IS ACTIVATED.
 - * EXTEND 120V WIRING TO INTEGRAL HOOD LIGHTING.
- 6 PROVIDE A JUNCTION BOX BELOW THE COUNTER. CONNECT THE FLEXIBLE ARMORED CABLE EXTENDING FROM THE COOKTOP TO THE JUNCTION BOX. LEAVE AS MUCH SLACK AS POSSIBLE TO PERMIT SERVICING THE COOKTOP. PROVIDE SUITABLE STRAIN RELIEF TO ATTACH THE ARMORED CABLE TO THE JUNCTION BOX.
- 7 PROVIDE DIRECT CONNECTION AT LOW LEVEL. PROVIDE LIQUID-TIGHT, FLEXIBLE CONNECTION FROM BOX TO DISHWASHER CONNECTION POINTS. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER.
- 8 COORDINATE DEVICE INSTALLATION WITH MILLWORK TRADES & ARCHITECTURAL DETAILS.
- 9 PROVIDE ASSISTIVE LISTENING MEDIA CONNECTOR, SUPPLEMENTAL ACCESS & A MOUNTING SHELF. REFER TO CLASSROOM AUDIO/VIDEO ROUGH-IN DETAIL & CABLING SCHEMATIC.
- 10 PROVIDE AUDIO/VIDEO WALL PLATES & ALL ASSOCIATED CABLING ASSOCIATED WITH RELOCATED PROJECTOR. REFER TO CLASSROOM AUDIO/VIDEO ROUGH-IN DETAIL & CABLING SCHEMATIC.
- 11 CONNECT TO EXISTING (REUSED) ROOM LIGHTING CIRCUIT, UPSTREAM OF CONTROLS.
- 12 CONTROLS FOUR MILLWORK LUMINAIRES.
- 13 PROVIDE POWER & ROUGH-INS FOR THE ACCESS CONTROLS & EMERGENCY CALL SYSTEM DEVICES PROVIDED BY OTHERS. PROVIDE SUPPLEMENTAL AID ASSISTANCE KIT WITH VOICE COMMUNICATION TO ADMINISTRATION OFFICE.
- 14 PROVIDE NEW SURFACE RACEWAYS.
- 15 RELOCATED & NEW COMMUNICATIONS AND SECURITY EQUIPMENT (FIBRE, DATA, VOICE & SURVEILLANCE, ETC.) IN NEW WALL RACK PROVIDED BY OTHERS. CONFIRM EXACT LOCATION ONSITE. PROVIDE BONDING & POWER DISTRIBUTION UNIT (PDU).

- COMMUNICATIONS & SECURITY PATHWAYS**
- * PROVIDE A 21mm EMT RISER CONDUIT FROM EACH OUTLET BOX WITH TWO DROPS OR LESS, TO THE NEAREST ACCESSIBLE CEILING SPACE.
 - * PROVIDE A 27mm EMT RISER CONDUIT FROM EACH OUTLET BOX WITH MORE THAN TWO DROPS AND FROM EACH AUDIO/VIDEO BOX.
 - * PROVIDE HOOK HANGERS. REFER TO COMMUNICATION SYSTEM HANGER DETAIL.
 - * PATHWAY LENGTHS FOR HDMI CABLING SHALL BE MINIMIZED.
 - * PROVIDE EMT CONDUIT SLEEVES CONCEALED AT & WITHIN WALLS, OF THE QUANTITY & DIAMETER INDICATED. SEAL ALL RATED PENETRATIONS.
 - * PROVIDE SELF-SEALING (SS) CONDUIT SLEEVES WHERE INDICATED.
 - * PROVIDE OUTLET BOXES FOR ALL INDICATED DEVICES.
 - * ALL CONDUITS & SLEEVES SHALL BE COMPLETE WITH PULL TAPES & PLASTIC BUSHINGS.

RETURN AIR PLENUM
THE LIBRARY ACCESSIBLE CEILING SPACES ARE USED AS A RETURN AIR PLENUM. THE ELECTRICAL SUBCONTRACTOR SHALL ENSURE THAT ALL NEW WIRING & CABLING WITHIN PLENUM SPACES IS TOTALLY ENCLOSED IN NON-COMBUSTIBLE RACEWAYS OR IS FT-6 RATED (ALSO KNOWN AS COMMUNICATIONS MEDIA PLENUM, OR CMP).

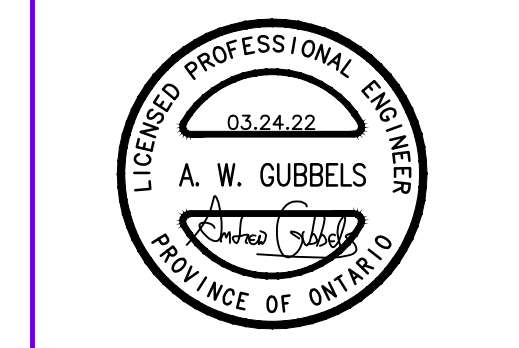
ACCESS CONTROLLED OPENINGS
AT EACH CONTROLLED OPENING, PROVIDE THE FOLLOWING CONTROLS (NOT INDICATED) FROM A CLEARLY LABELED BOX AFC, FOR ACCESS CONTROL CABLING INSTALLATIONS:
A 16mm TO EACH OF THE FOLLOWING, WHERE APPLICABLE:
* MULLION MORTAR BOX FOR CURRENT TRANSFERS, BY OTHERS.
* DOOR HEADER.
* AUTO OPERATOR, BY OTHERS.
* DAY-NIGHT-OFF KEY SWITCH.
A 21mm TO A SINGLE GANG BOX, UNLESS OTHERWISE SPECIFIED, FOR EACH OF THE FOLLOWING RECESSED DEVICES, WHERE INDICATED:
* DOOR OPERATOR PUSH BUTTONS, BY OTHERS.
* CARD PROXIMITY READERS.
* KEY SWITCHES.
REFER TO DOOR ELEVATION DRAWINGS (BY OTHERS) FOR FURTHER DETAILS.

LIGHTING CONTROLS
WHERE INDICATED, LUMINAIRES SHALL BE CONTROLLED BY OCCUPANCY SENSORS.
* PROVIDE POWER PACKS (NOT INDICATED) FOR THE SENSORS. LOCATE ABOVE ACCESSIBLE CEILING & PROVIDE CMP LOW VOLTAGE CABLING.
* ADJUST SENSORS PER MANUFACTURERS INSTRUCTIONS AS REQUIRED TO PROVIDE ADEQUATE DETECTION.
* REFER TO 'LIGHTING CONTROL SCHEDULE'.
WHERE NO CIRCUIT IS OUTLINED, REUSE EXISTING LIGHTING BRANCH CIRCUITS FOR NEW LUMINAIRES.

03	03.23.22	RE-ISSUED FOR TENDER #774-RW-22	
02	05.07.21	ISSUE FOR PERMIT AND TENDER #774-RW-21	
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		NO. DATE:	REVISION

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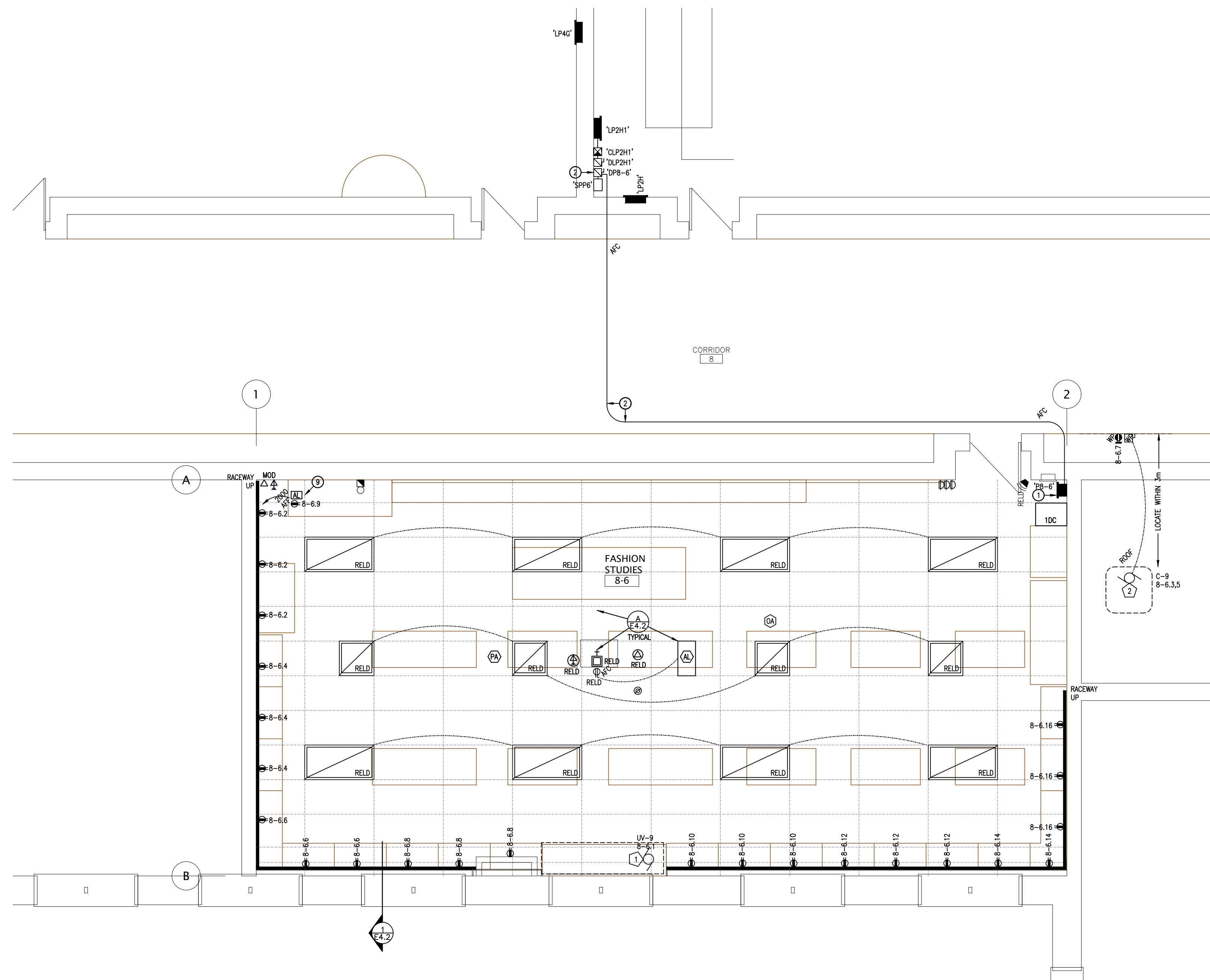


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255 Fischer-Hallman Rd.
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DRAWING TITLE:
PARTIAL REVISED ELECTRICAL PLAN

PROJECT NO: 21044	SCALE: AS NOTED
DRAWN: A.W.G.	DRAWING NO. REV. A.W.G. E3.1
CHECKED: A.W.G.	DATE: APR/21

DATE PLOTTED: March 24, 2022



1 PARTIAL REVISED ELECTRICAL PLAN
E.3.2 SCALE 1:50

REVISED DRAWING NOTES:

- 1 PROVIDE NEW POWER DISTRIBUTION. REFER TO PANEL SCHEDULE.
- 2 PROVIDE NEW POWER DISTRIBUTION AS FOLLOWS:
 - * 3-#6 + 1-#4 N T90 IN 27 EMT FROM SPLITTER LUGS TO NEW FUSED DISCONNECT SWITCH WITH 60A FUSES. MOUNT ABOVE EXISTING.
 - * 3-#6 + 1-#4 N T90 IN 27 EMT FROM DISCONNECT TO NEW PANEL 8-6'. REMOVE EXISTING 300X300 CEILING TILES AS REQUIRED. FIRE STOP RATED PENETRATIONS.
- 3 REFER TO 'SMOKE DAMPER WIRING SCHEMATIC'. CONNECT NEW DETECTORS TO LOCAL INITIATING ZONE.
- 4 PROVIDE CLEARLY LABELED FIRE ALARM RELAY & CONNECTIONS. COORDINATE WITH DIVISION 25 FOR EQUIPMENT SHUTDOWN.
- 5 PROVIDE CONNECTION TO KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTROL PANELS PROVIDED BY OTHERS.
 - * CONNECT SO THAT AN ALARM CONDITION IS SENT TO THE FIRE ALARM SYSTEM WHEN THE SUPPRESSION SYSTEM IS ACTIVATED. ZONE INDEPENDENTLY.
 - * PROVIDE CONTROL WIRING FROM AUXILIARY CONTACTS TO SUITABLY SIZED POWER CONTACTORS. PROVIDE POWER WIRING SUCH THAT LOADS BENEATH THE KITCHEN HOODS ARE DE-ENERGIZED WHEN THE SUPPRESSION SYSTEM IS ACTIVATED.
 - * EXTEND 120V WIRING TO INTEGRAL HOOD LIGHTING.
- 6 PROVIDE A JUNCTION BOX BELOW THE COUNTER. CONNECT THE FLEXIBLE ARMoured CABLE EXTENDING FROM THE COOKTOP TO THE JUNCTION BOX. LEAVE AS MUCH SLACK AS POSSIBLE TO PERMIT SERVICING THE COOKTOP. PROVIDE SUITABLE STRAIN RELIEF TO ATTACH THE ARMoured CABLE TO THE JUNCTION BOX.
- 7 PROVIDE DIRECT CONNECTION AT LOW LEVEL. PROVIDE LIQUID-TIGHT, FLEXIBLE CONNECTION FROM BOX TO DISHWASHER CONNECTION POINTS. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER.
- 8 COORDINATE DEVICE INSTALLATION WITH MILLWORK TRADES & ARCHITECTURAL DETAILS.
- 9 PROVIDE ASSISTIVE LISTENING MEDIA CONNECTOR, SUPPLEMENTAL ACCESS & A MOUNTING SHELF. REFER TO CLASSROOM AUDIO/VIDEO ROUGH-IN DETAIL & CABLING SCHEMATIC.
- 10 PROVIDE AUDIO/VIDEO WALL PLATES & ALL ASSOCIATED CABLING ASSOCIATED WITH RELOCATED PROJECTOR. REFER TO CLASSROOM AUDIO/VIDEO ROUGH-IN DETAIL & CABLING SCHEMATIC.
- 11 CONNECT TO EXISTING (REUSED) ROOM LIGHTING CIRCUIT, UPSTREAM OF CONTROLS.
- 12 CONTROLS FOUR MILLWORK LUMINAIRES.
- 13 PROVIDE POWER & ROUGH-INS FOR THE ACCESS CONTROLS & EMERGENCY CALL SYSTEM DEVICES PROVIDED BY OTHERS. PROVIDE SUPPLEMENTAL AID ASSISTANCE KIT WITH VOICE COMMUNICATION TO ADMINISTRATION OFFICE.
- 14 PROVIDE NEW SURFACE RACEWAYS.
- 15 RELOCATED & NEW COMMUNICATIONS AND SECURITY EQUIPMENT (FIBRE, DATA, VOICE & SURVEILLANCE, ETC.) IN NEW WALL RACK PROVIDED BY OTHERS. CONFIRM EXACT LOCATION ONSITE. PROVIDE BONDING & POWER DISTRIBUTION UNIT (PDU).

COMMUNICATIONS & SECURITY PATHWAYS

- * PROVIDE A 21mm EMT RISER CONDUIT FROM EACH OUTLET BOX WITH TWO DROPS OR LESS, TO THE NEAREST ACCESSIBLE CEILING SPACE.
- * PROVIDE A 27mm EMT RISER CONDUIT FROM EACH OUTLET BOX WITH MORE THAN TWO DROPS AND FROM EACH AUDIO/VIDEO BOX.
- * PROVIDE J-HOOK HANGERS. REFER TO COMMUNICATION SYSTEM HANGER DETAIL.
- * PATHWAY LENGTHS FOR HDMI CABLING SHALL BE MINIMIZED.
- * PROVIDE EMT CONDUIT SLEEVES CONCEALED AT & WITHIN WALLS, OF THE QUANTITY & DIAMETER INDICATED. SEAL ALL RATED PENETRATIONS.
- * PROVIDE SELF-SEALING (SS) CONDUIT SLEEVES WHERE INDICATED.
- * PROVIDE OUTLET BOXES FOR ALL INDICATED DEVICES.
- * ALL CONDUITS & SLEEVES SHALL BE COMPLETE WITH PULL TAPES & PLASTIC BUSHINGS.

RETURN AIR PLENUM

THE LIBRARY ACCESSIBLE CEILING SPACES ARE USED AS A RETURN AIR PLENUM. THE ELECTRICAL SUBCONTRACTOR SHALL ENSURE THAT ALL NEW WIRING & CABLING WITHIN PLENUM SPACES IS TOTALLY ENCLOSED IN NON-COMBUSTIBLE FACEWAYS OR IS FFC-RATED (ALSO KNOWN AS COMMUNICATIONS MEDIA PLENUM, OR CMP).

ACCESS CONTROLLED OPENINGS

AT EACH CONTROLLED OPENING, PROVIDE THE FOLLOWING CONDUITS (NOT INDICATED) FROM A CLEARLY LABELED BOX AFC. FOR ACCESS CONTROL CABLING INSTALLATIONS:

- A 16mm TO EACH OF THE FOLLOWING, WHERE APPLICABLE:
 - * MULLION MORTAR BOX FOR CURRENT TRANSFERS, BY OTHERS.
 - * DOOR HEADER.
 - * AUTO OPERATOR, BY OTHERS.
 - * DAY-NIGHT-OFF KEY SWITCH.
 - A 21mm TO A SINGLE GANG BOX, UNLESS OTHERWISE SPECIFIED, FOR EACH OF THE FOLLOWING RECESSED DEVICES, WHERE INDICATED:
 - * DOOR OPERATOR PUSH BUTTONS, BY OTHERS.
 - * CARD PROXIMITY READERS.
 - * KEY SWITCHES.
- REFER TO DOOR ELEVATION DRAWINGS (BY OTHERS) FOR FURTHER DETAILS.

LIGHTING CONTROLS

WHERE INDICATED, LUMINAIRES SHALL BE CONTROLLED BY OCCUPANCY SENSORS.

- * PROVIDE POWER PACKS (NOT INDICATED) FOR THE SENSORS. LOCATE ABOVE ACCESSIBLE CEILING & PROVIDE CMP LOW VOLTAGE CABLING.
- * ADJUST SENSORS PER MANUFACTURERS INSTRUCTIONS AS REQUIRED TO PROVIDE ADEQUATE DETECTION.
- * REFER TO LIGHTING CONTROL SCHEDULE.

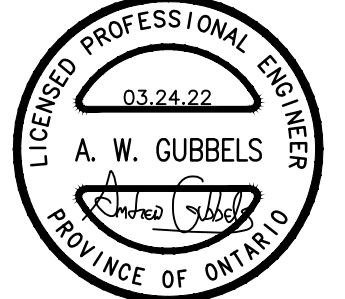
WHERE NO CIRCUIT IS OUTLINED, REUSE EXISTING LIGHTING BRANCH CIRCUITS FOR NEW LUMINAIRES.

03	03.23.21	RE-ISSUED FOR TENDER #174-RW-22	
02	05.07.21	ISSUE FOR PERMIT AND TENDER #174-RW-21	
01	04.30.21	ISSUE FOR REVIEW	
		NO. DATE:	REVISION

DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

- 1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.
- 2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.
- 3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- 4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.
- 5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
- 6. ALL DIMENSIONS GIVEN ARE IN METRIC.



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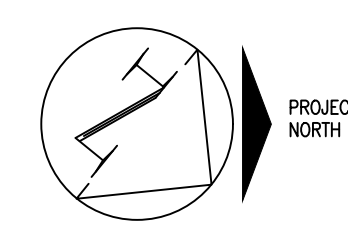


FOREST HEIGHTS COLLEGIATE INSTITUTE
FAMILY STUDIES RENOVATION
AND BARRIER-FREE WASHROOM

255 Fischer-Hallman Rd.
Kitchener, ON N2M 4K8

DRAWING TITLE:
PARTIAL REVISED ELECTRICAL PLAN

PROJECT NO: 21044	SCALE: AS NOTED
DRAWN: A.W.G.	DRAWING NO. REV. REV.
CHECKED: A.W.G.	E3.2
DATE: APR/21	



NEW PANEL '1E' SCHEDULE

NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*4	40	2	COOKTOP 6-20 SOUTH	A	COOKTOP 6-20 NORTH	2	40	*4	2
3		40			B					4
5	*4	40	2	DISHWASHER 6-20 SOUTH	A	DISHWASHER 6-20 NORTH	2	40	*4	6
7		40			B					8
9	*4	40	2	RECEPT. RANGE 6-20 SOUTHWEST	B	RECEPT. RANGE 6-20 NORTHWEST	2	40	*4	10
11		40			C					12
13	*4	40	2	RECEPT. RANGE 6-20 SOUTHEAST	A	RECEPT. RANGE 6-20 NORTHEAST	2	40	*4	14
15		40			B					16
17	*4	20	1	RECEPT. COUNTER SE	C	RECEPT. COUNTER NW	1	20	*4	18
19	*4	20	1	RECEPT. COUNTER E	A	RECEPT. COUNTER NW	1	20	*4	20
21	*4	20	1	RECEPT. COUNTER E	B	RECEPT. COUNTER NW	1	20	*4	22
23	*4	15	1	RECEPT. FRIDGE SE	C	RECEPT. FRIDGE NW	1	15	*4	24
25	*4	15	1	RECEPT. WASHER E	A	RECEPT. W	1	15	*4	26
27	*1	20	1	HAND DRYER RM 6-15	B	RECEPT. ISLAND NW	1	20	*4	28
29	*1	20	1	HAND DRYER RM 6-11	C	RECEPT. MICROWAVE ISLAND N	1	15	*4	30
31	*4	30	2	RECEPT. DRYER EAST	A	HAND DRYER 6-3	1	20	*1	32
33		30			B	HAND DRYER 6-1	1	20	*1	34
35	*4	15	1	RECEPT. FRIDGE NE	C					36
37	*4	20	1	RECEPT. COUNTER NE	A	RECEPT. 6-20	1	15	*4	38
39	*4	20	1	RECEPT. COUNTER NE	B	RECEPT. 6-20	1	15	*4	40
41	*4	20	1	RECEPT. COUNTER NE	C	RECEPT. 6-20	1	15	*4	42
43					A					44
45	*4	15	1	RECEPT. FRIDGE SW	B					46
47	*4	20	1	RECEPT. COUNTER SW	C					48
49	*4	20	1	RECEPT. COUNTER SW	A					50
51	*4	20	1	RECEPT. COUNTER SW	B					52
53	*4	20	1	RECEPT. ISLAND SW	C					54
55	*4	15	1	RECEPT. MICROWAVE ISLAND S	A					56
57	*4				B					58
59	*4	15	1	RECEPT. CEILING DISPLAYS	C					60
61	*4	15	1	RECEPT. 6-22	A					62
63	*4	15	1	RECEPT. 6-22	B					64
65	*4	15	1	DOOR OPERATORS 6-22, 6-20	A					66
67	*4	20	1	RECEPT. ROOF MAINTENANCE	C					68
69	*4	15	1	RECEPT. 6-22	B					70
71	*4	15	1	RECEPT. 6-22	C					72
73	*4	15	1	RANGE HOODS RH-1 to 4	A					74
75	*4	15	1	NFPA HOOD CONTROL PANELS	B					76
77	*4	15	2	ROOF EXHAUST FAN EF-1 ROOM 6-22 HOOD	C	SPARE	1	20	*4	78
79		15			A	SPARE	1	20	*4	80
81	*4	15	2	ROOF EXHAUST FAN EF-2 ROOM 6-20 HOOD	B	SPARE	1	15	*4	82
83		15			C	SPARE	1	15	*4	84

- *NOTES:**
1. EXISTING LOAD FROM DELETED '1P-1E'. PROVIDE BREAKER & RECONNECT BRANCH WIRE.
2. DELETED DOL TUB = 106x380x150. CUT, PATCH & TRIM OUT AS REQUIRED.
3. IMPROPER CONNECTION. CONNECT ONLY ONE BRANCH CIRCUIT PER BREAKER.
4. NEW LOAD. PROVIDE BREAKER. PROVIDE BRANCH WIRE WHERE APPLICABLE.
5. EXISTING LOAD WITH POOR WIRING.
6. FIELD CONFORM AMPACITY.
7. PROVIDE LOCK & COLOUR RED.
- OPTIONS:**
TOP FEEDS
200% NEUTRAL
711 TUB WIDTH
DRIP SHIELD

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING (*2)	MAIN BREAKER
ROOM 6-20	225A	120/208V	3/4	EATON PRL1	FLUSH IN MASONRY	N/A

NEW PANEL '8-6' SCHEDULE

NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*4	15	1	UNIT VENTILATOR 8-6	A	RECEPT. 8-6 RACEWAY S	1	15	*4	2
3		30			B	RECEPT. 8-6 RACEWAY S	1	15	*4	4
5	*4	30	2	CONDENSING UNIT ROOM 8-6	C	RECEPT. 8-6 RACEWAY E	1	15	*4	6
7	*4	20	1	RECEPT. ROOF MAINTENANCE	A	RECEPT. 8-6 RACEWAY E	1	15	*4	8
9	*4	15	1	RECEPT. 8-6 ASSIST. LISTENING	B	RECEPT. 8-6 RACEWAY E	1	15	*4	10
11					C	RECEPT. 8-6 RACEWAY E	1	15	*4	12
13					A	RECEPT. 8-6 RACEWAY E	1	15	*4	14
15					B	RECEPT. 8-6 RACEWAY N	1	15	*4	16
17					C					18
19					A					20
21	*1	15	1		B					22
23	*1	15	1		C					24
25	*1	15	1		A					26
27	*1	15	1		B					28
29	*1	15	1		C					30

- *NOTES:**
1. EXISTING LOAD FROM DELETED '1P-8-6A'. PROVIDE BREAKER & RECONNECT BRANCH WIRE.
2. DELETED TUB = 400x250x100. CUT, PATCH AS REQUIRED.
3. IMPROPER CONNECTION. CONNECT ONLY ONE BRANCH CIRCUIT PER BREAKER.
4. NEW LOAD. PROVIDE BREAKER. PROVIDE BRANCH WIRE WHERE APPLICABLE.
5. EXISTING LOAD WITH POOR WIRING.
6. FIELD CONFORM AMPACITY.
7. PROVIDE LOCK & COLOUR RED.
- OPTIONS:**
TOP FEEDS
200% NEUTRAL
220 TUB WIDTH
DRIP SHIELD

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING (*2)	MAIN BREAKER
ROOM 8-6	100A	120/208V	3/4	EATON PRL1 LX	SURFACE	N/A

NEW PANEL '2E' SCHEDULE

NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1	15	1		A					2
3	*1	15	1		B					4
5	*1	15	1		C					6
7	*1	15	1		A					8
9	*1	15	1		B					10
11	*1	15	1		C					12
13	*1	15	1		A					14
15	*1,3	20	1		B					16
17	*1,3	15	1		C					18
19	*1	15	1		A					20
21	*1	15	1		B					22
23	*1	15	1		C					24
25	*1	15	1		A					26
27	*1	15	1		B					28
29	*1	15	1		C					30
31	*1	20	1		A					32
33	*1	20	1		B					34
35	*1	20	1		C					36
37	*1	20	1		A					38
39	*1	20	1		B					40
41	*1	15	1		C					42
43	*1	15	1		A					44
45	*1	20	1		B					46
47	*6,9	XX	2		C					48
49		XX			A					50
51	*4,10	15	1	FUTURE HAND DRYER 3-2	B	SPARE	1	20	*4	52
53	*4	15	1	DOOR OPERATOR 3-2	C	RECEPT. 6-24 POU	1	30	*4	54
55					A	RECEPT. 3-2 LIFT, BED, CTRLS	1	15	*4	56
57					B	RECEPT 3-2	1	15	*4	58
59					C					60
61	*8	15	1		A					62
63	*8	15	1		B					64
65	*8	15	1		C					66
67	*8	15	1		A					68
69	*8	15	1		B					70
71	*8	15	1		C					72
73	*8	15	1		A					74
75	*3,8	15	1		B					76
77	*8	15	1		C					78
79	*8	15	1		A					80
81	*4	20	1	RECEPT. 6-24	B					82
83	*4,7	15	1	SMOKE DAMPERS 6-20,6-22	C					84

- *NOTES:**
1. EXISTING LOAD FROM DELETED '1P-2E'. PROVIDE BREAKER & RECONNECT.
2. DELETED TUBS = 915x380x115 & 610x380x115. CUT, PATCH & TRIM OUT AS REQUIRED.
3. IMPROPER CONNECTION. CONNECT ONLY ONE BRANCH CIRCUIT PER BREAKER.
4. NEW LOAD. PROVIDE BREAKER. PROVIDE BRANCH WIRE WHERE APPLICABLE.
5. EXISTING LOAD WITH POOR WIRING. PROVIDE NEW BRANCH WIRE.
6. FIELD CONFORM AMPACITY.
7. PROVIDE LOCK & COLOUR RED.
8. EXISTING LOAD FROM DELETED '1P-SE'. PROVIDE BREAKER & RECONNECT.
9. EXISTING LOAD FROM DELETED PULL BOX. PROVIDE BREAKER & RECONNECT.
10. PROVIDE CLASS 'X' (5ma) GFCI BREAKER
- OPTIONS:**
TOP FEEDS
200% NEUTRAL
711 TUB WIDTH
DRIP SHIELD

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING (*2)	MAIN BREAKER
COMMS ROOM 6-24	225A	120/208V	3/4	EATON PRL1	SURFACE	N/A

NEW PANEL '1D' SCHEDULE

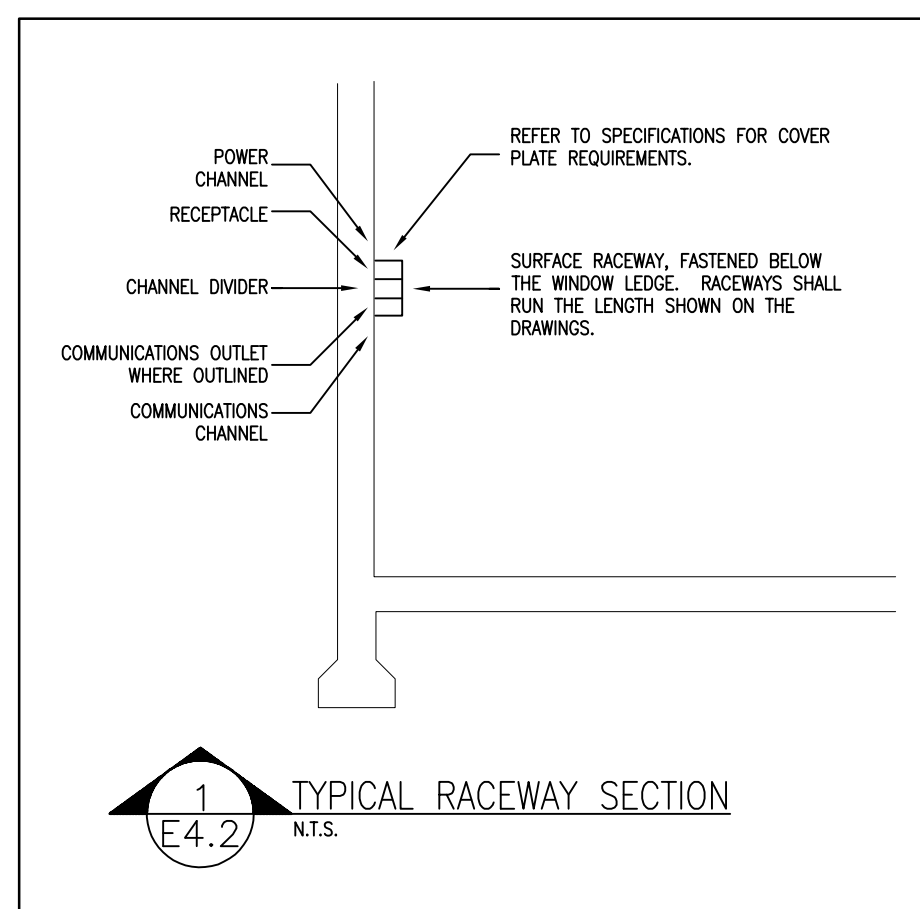
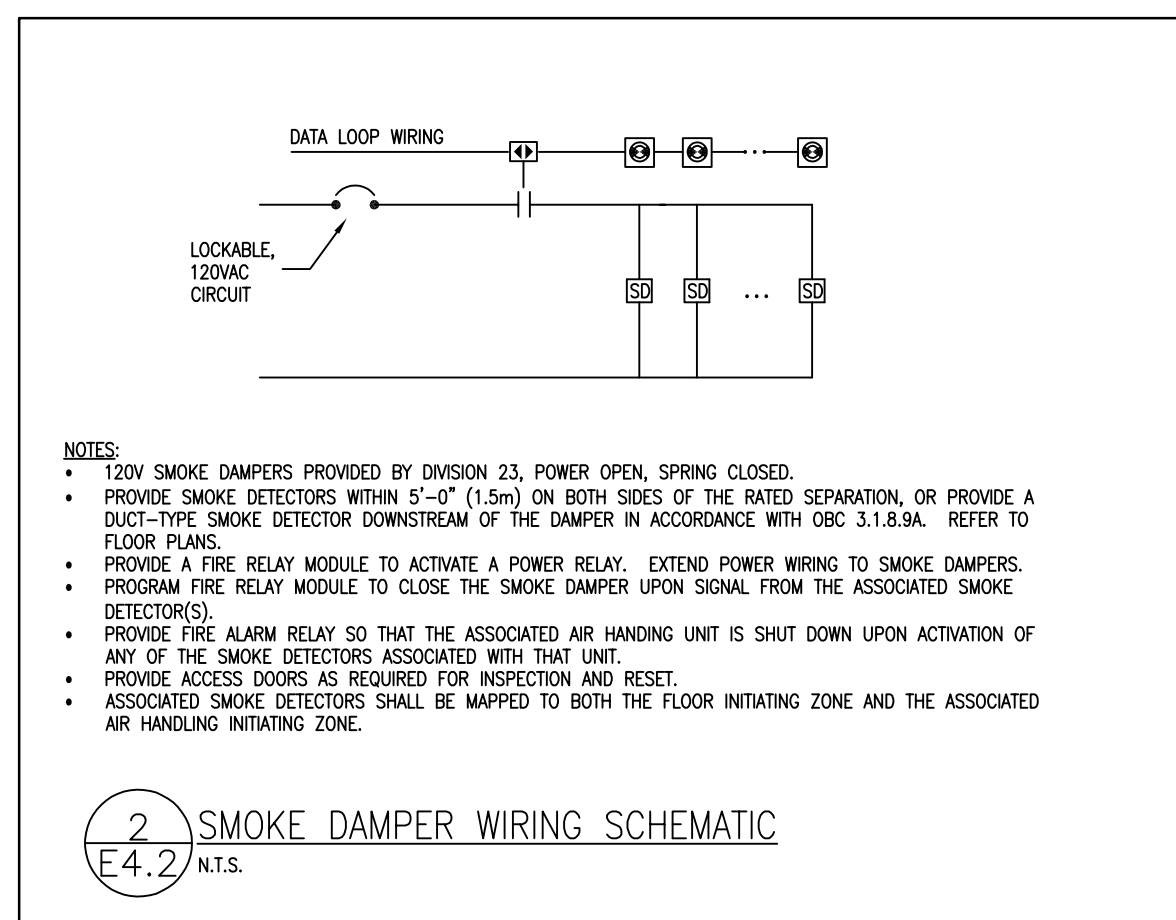
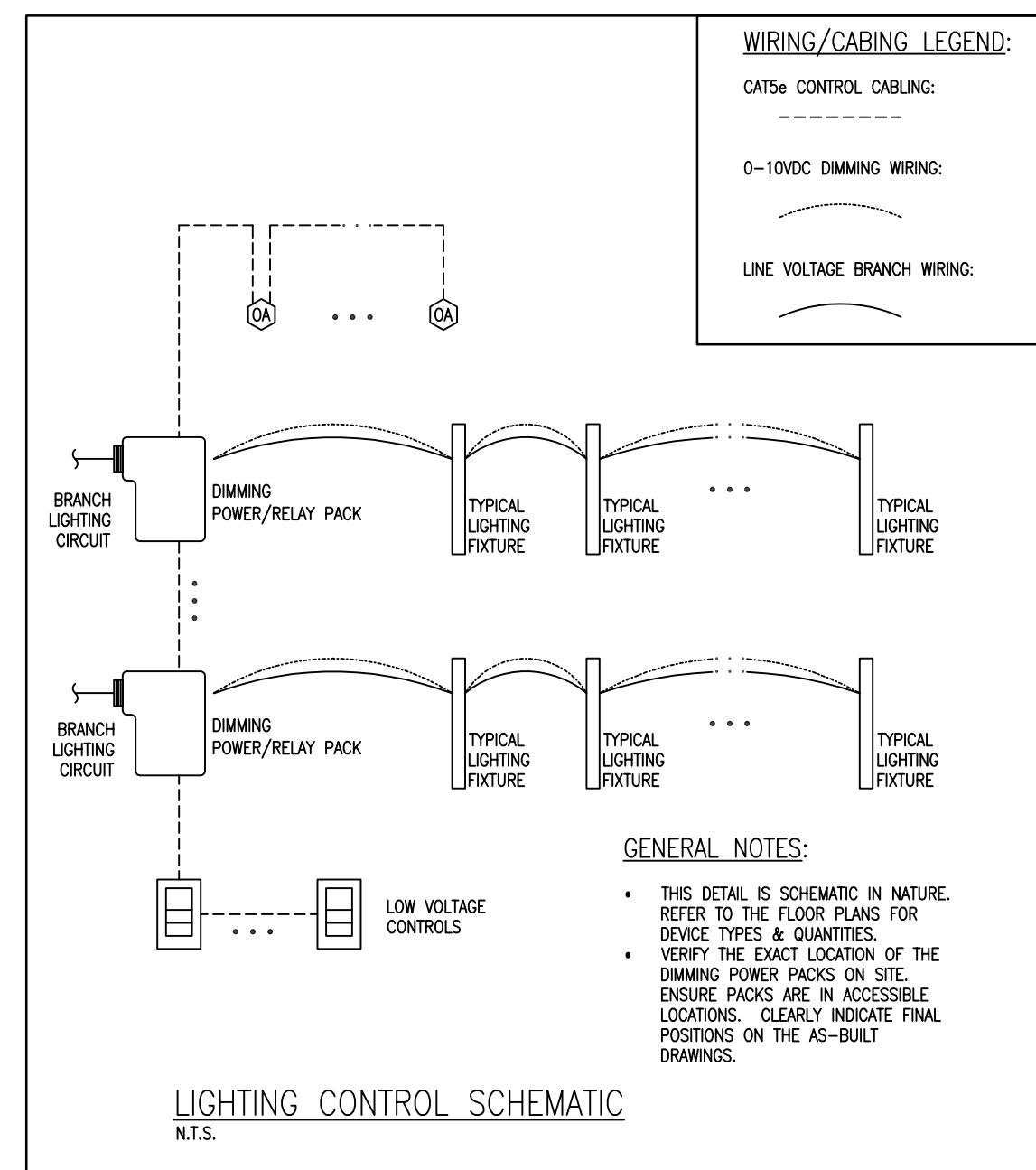
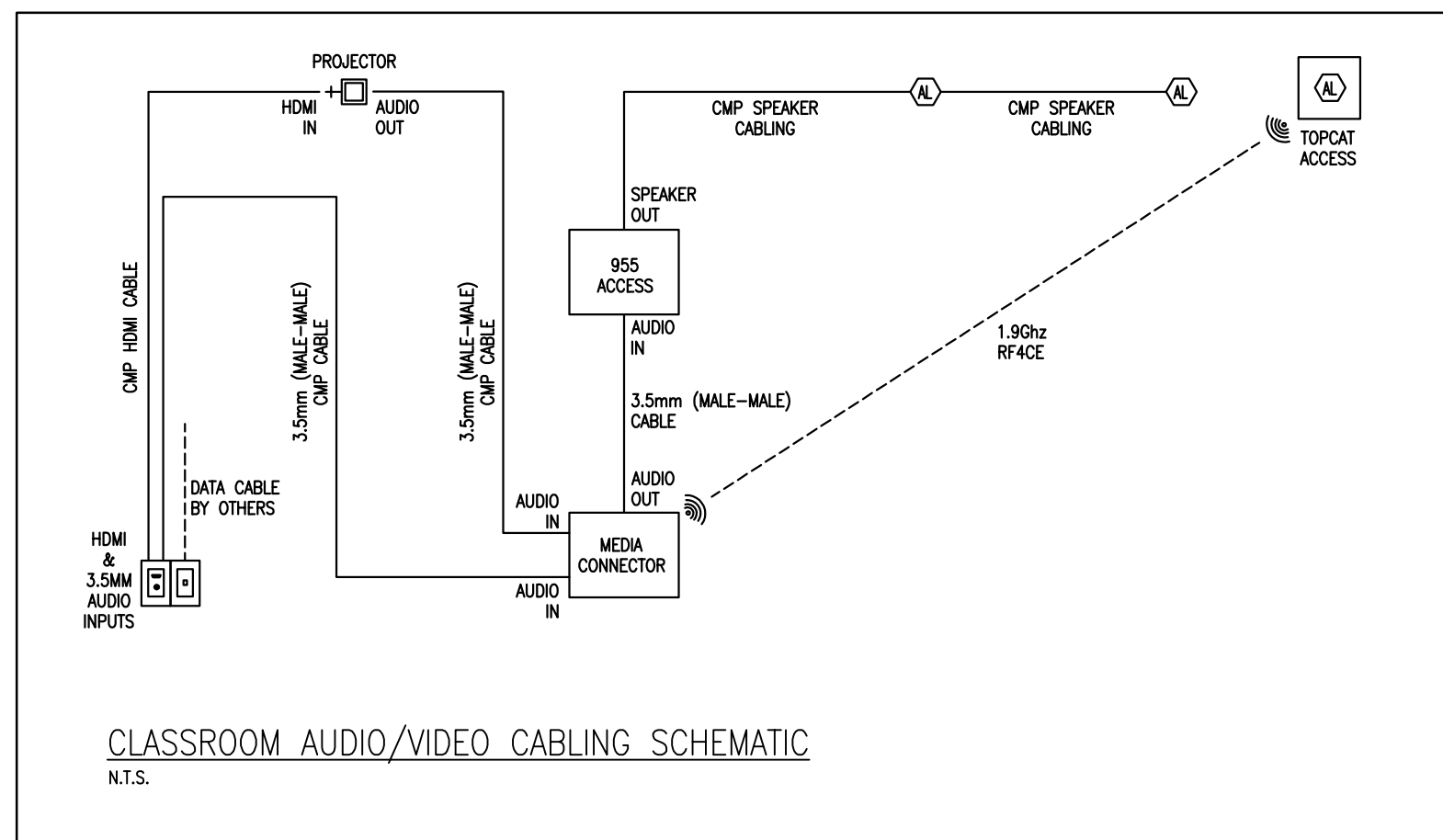
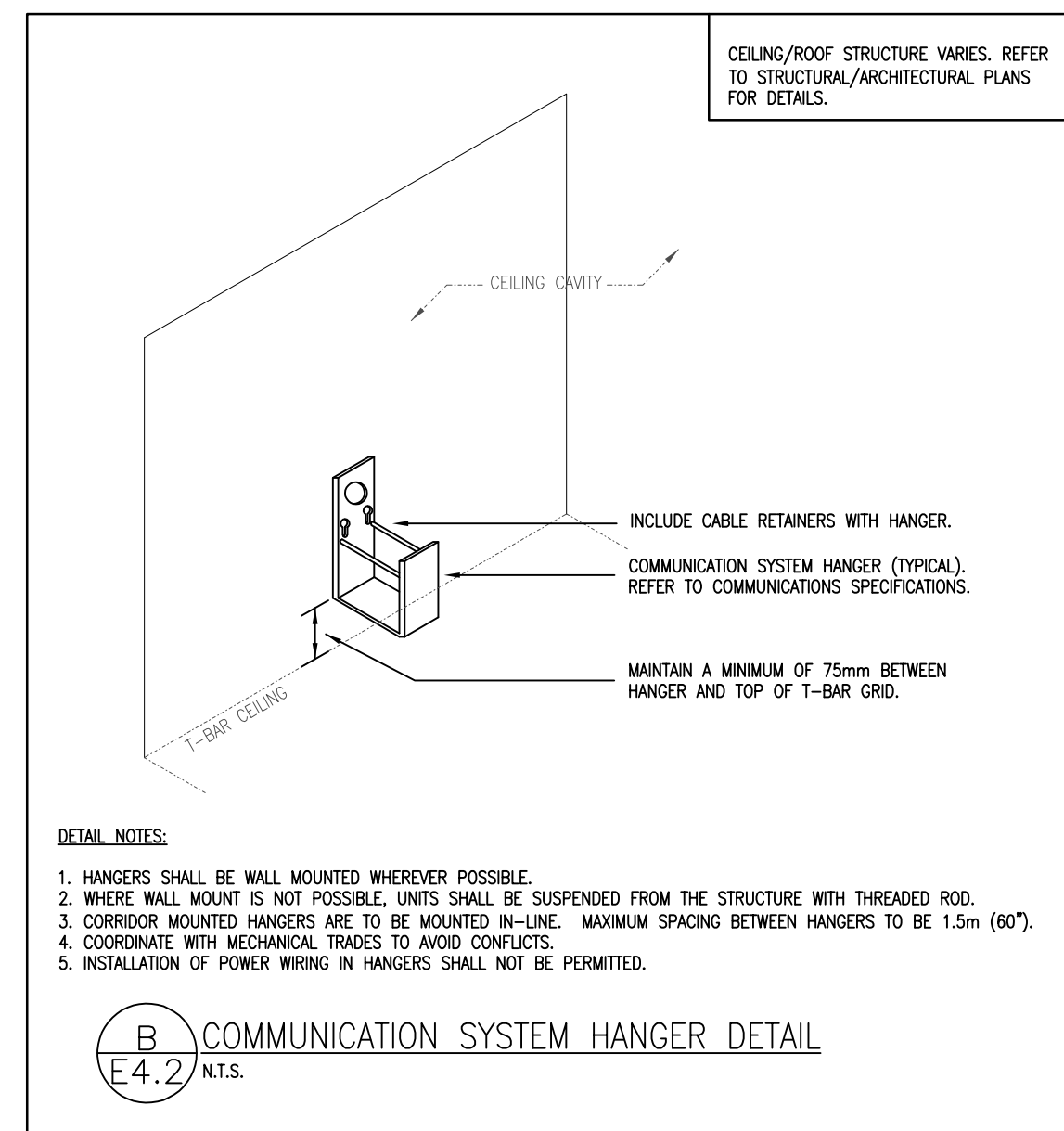
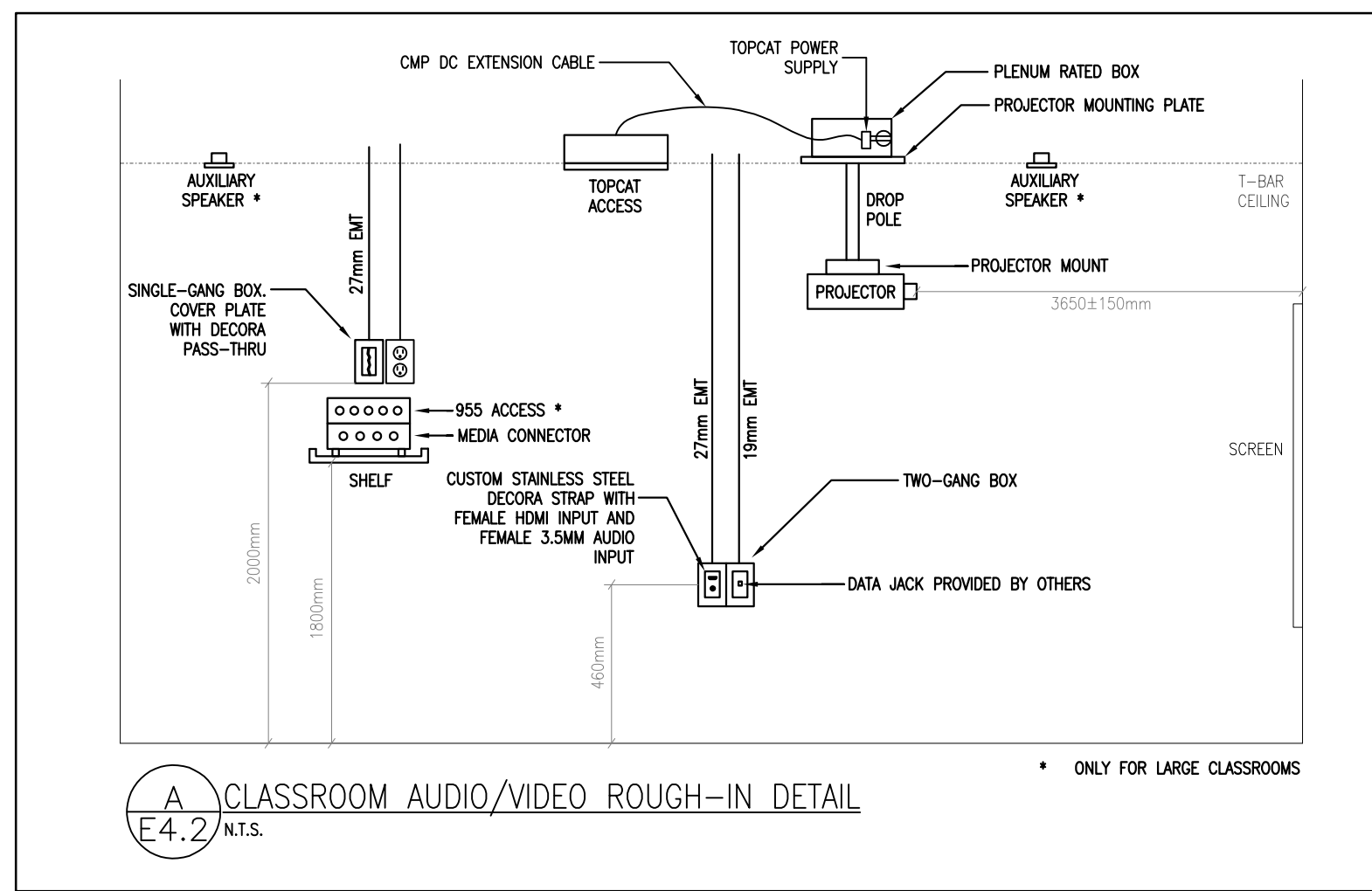
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1	15	1		A					2
3	*1	15	1		B					4
5	*1	15	1		C					6
7	*1	15	1		A					8
9	*1	15	1		B					10
11	*1	15	1		C					12
13	*1	15	1		A					14
15	*1	15	1		B					16
17		30			C					18
19	*1	30	3		A					20
21		30			B					22
23	XX				C					24
25	*1,6	XX	3		A					26
27		XX	3		B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42

- *NOTES:**
1. EXISTING LOAD FROM DELETED '1P-1D'. PROVIDE BREAKER & RECONNECT BRANCH WIRE.
2. DELETED TUB = 711x380x115. CUT, PATCH AS REQUIRED.
3. IMPROPER CONNECTION. CONNECT ONLY ONE BRANCH CIRCUIT PER BREAKER.
4. NEW LOAD. PROVIDE BREAKER. PROVIDE BRANCH WIRE WHERE APPLICABLE.
5. EXISTING LOAD WITH POOR WIRING.
6. FIELD CONFORM AMPACITY.
7. PROVIDE LOCK & COLOUR RED.
- OPTIONS:**
TOP FEEDS
200% NEUTRAL
DRIP SHIELD

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING (*2)	MAIN BREAKER
ROOM SS-1	225A	120/208V	3/4	EATON PRL1	SURFACE	N/A

NEW PANEL '1F' SCHEDULE

NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1	15	1		A					2
3	*1	15	1		B					4
5	*1	15	1		C					6
7	*1	15	1		A					8
9	*1	15	1		B					10
11	*1	15	1		C					12
13	*1	15	1		A					14
15	*1	15	1		B					16
17	*1	15	1		C					18
19	*1	20	1		A					20
21	*1	20	1		B					22
23	*1	20	1		C					24
25	XX				A					26
27	*1,6	XX	3		B					28
29		XX			C					30
31	XX				A					32
33	*1,6	XX	3		B					34
35	XX				C					36
37		60			A					38
39	*1	60	3		B					40
41		60			C					42
43					A					44
45					B					46
47					C					48
49										



LIGHTING FIXTURE SCHEDULE (*1)

TYPE	MANUFACTURER	MODEL	LAMPS (QUANTITY/TYP)	MOUNTING	VOLTAGE	REMARKS
AA	LITHONIA	UCLD 24IN 30K 90CRI SWR xx	13W LED	S	120	*2,3
EA	STANPRO	SWL EM WH TB AT	14W LED	R	120	
GA	LITHONIA	2BLT 2 48L ADSM EZ1 LP840	44W LED	R	120	
GB	LITHONIA	2BLT 4 48L ADSM EZ1 LP840	32W LED	R	120	
GC	LITHONIA	2BLT 4 60L ADSM EZ1 LP840	48W LED	R	120	

NOTES:
 *1. REFER TO SPECIFICATIONS FOR DRIVER & LAMP REQUIREMENTS. LAMPS INCLUDED WITH FIXTURES UNLESS OTHERWISE OUTLINED.
 *2. OPTIONAL COLOUR SELECTED BY ARCHITECT FROM LIST OF STANDARD OR OPTIONAL COLOURS.
 *3. MOUNT TO UNDERSIDE OF UPPER MILLWORK. PROTECTIVE STRIP PROVIDED BY OTHERS.

LIGHTING CONTROL SCHEDULE (*1)

USE	TYPE	MANUFACTURER	MODEL	ENVIRONMENT	MOUNTING	VOLTAGE	PIR	MICRO-PHONICS	DAY LIGHTING	COMMENTS
✓	⬡	ACUITY	rCM PDT 10 RUB	DIMMING	CEILING	24	x	x		LARGE MOTION
✓	⬢	ACUITY	rPODMAD X	DIMMING	WALL	24				ON/OFF & RAISE/LOWER - 1 CHANNEL
✓	⬤	ACUITY	rPODMA	SWITCHING	WALL	24				ON/OFF - 1 CHANNEL

* NOTES:
 1. PROVIDE POWER/RELAY PACKS AS REQUIRED. PACKS NOT INDICATED ON THE DRAWINGS. REFER TO SPECIFICATIONS.

WIRING FOR EQUIPMENT SCHEDULE (*1)

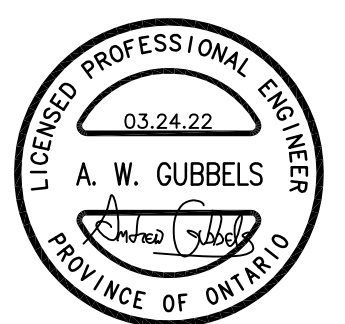
EQUIPMENT	CHARACTERISTICS	STARTERS	ISOLATING DEVICE	REMOTE CONTROL	WIRING	NOTES
UV-9	UNIT VENTILATOR					*2
C-9	CONDENSING UNIT					
EF-1,2	ROOF EXHAUST FANS					
RH-1,2,3,4	RANGE HOOD FANS					*3
PPS	PLUMBING POWER SUPPLY					

* NOTES:
 1. COORDINATE EXACT ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT WITH SHOP DRAWINGS AND ACTUAL NAMEPLATE DATA. REVISE ELECTRICAL REQUIREMENTS TO SUIT.
 2. CONTAINS INTEGRAL MOTOR OVERLOADS.
 3. CONTAINS INTEGRAL PUSH BUTTON.

03	03.23.29	RE-ISSUED FOR TENDER #774-RW-22	02	05.07.21	ISSUE FOR PERMIT AND TENDER #774-RW-21
01	04.30.21	ISSUE FOR REVIEW	01	04.30.21	REVISION

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 - THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.
 - THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
 - ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.
 - THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
 - ALL DIMENSIONS GIVEN ARE IN METRIC.



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DRAWING TITLE:
DETAILS, SCHEDULES & SCHEMATICS

PROJECT NO: 21044	SCALE: AS NOTED
DRAWN: A.W.G.	DRAWING NO.: REV.
CHECKED: A.W.G.	E4.2
DATE: APR/21	

DATE PLOTTED: Thursday, March 24, 2022