

INTERIOR CHILDCARE RENOVATIONS TECUMSETH BEETON ELEMENTARY SCHOOL

Beeton, Ontario

PROJECT NO.2022-13062T
ISSUED FOR TENDER OCTOBER 27, 2022

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INTERIOR CHILDCARE RENOVATIONS TECUMSETH BEETON ELEMENTARY SCHOOL

CLIENT



1170 Highway 26t
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L0L 1X0
Phone: (705) 728-7570
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STRUCTURAL



GERRITS ENGINEERING LIMITED
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BARRIE, ON L4N 4Y5
TEL: (705) 737-3303

ELECTRICAL



LONERAGAN ENGINEERING INC.
4 INDUSTRIAL PARKWAY SOUTH, AURORA,
ON L4G 3W1 TEL: 416-684-2305

MECHANICAL



John Angus & Associates Inc.
2000 Argenta Road, Mississauga, ON
L5N 1W1 TEL 416-705-1419

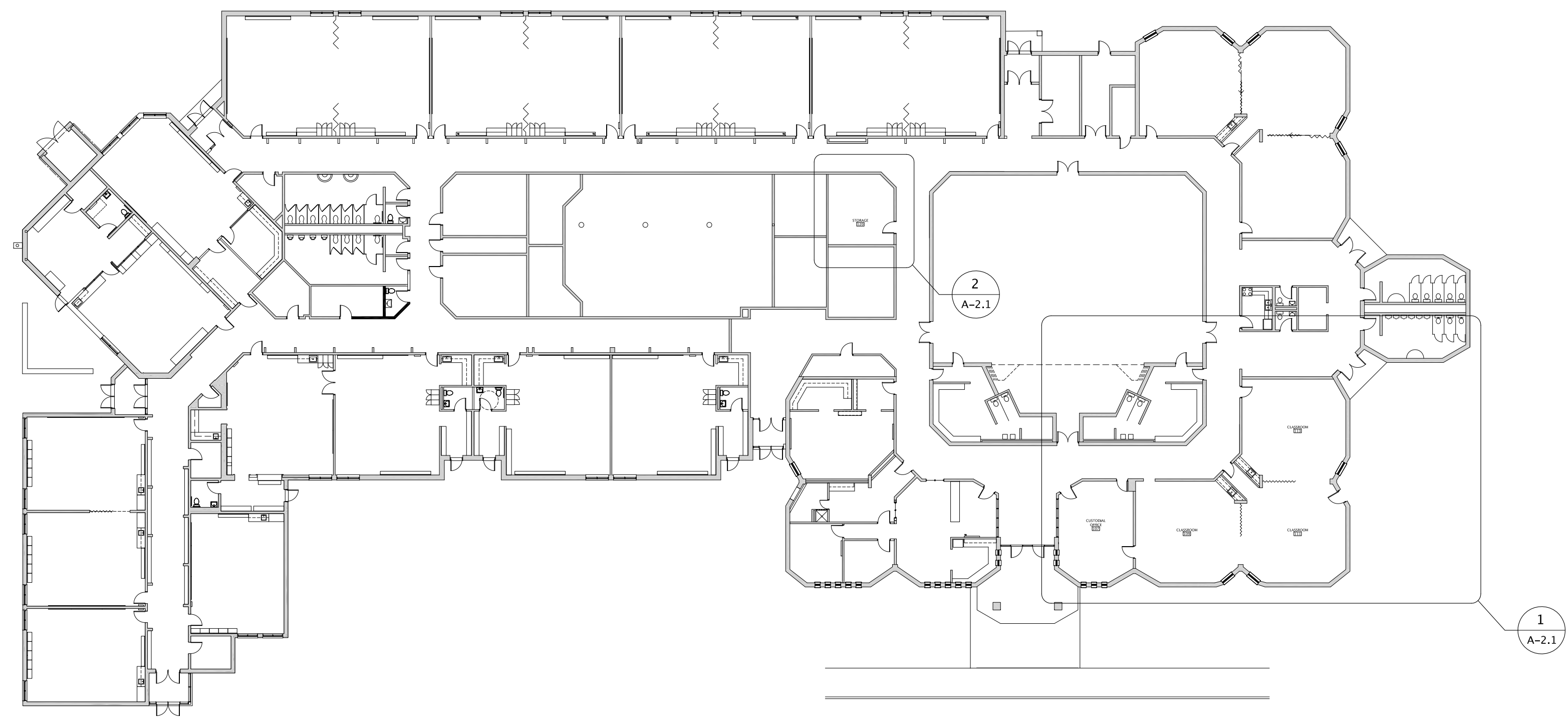
ARCHITECT

Formworks, Inc. Architects



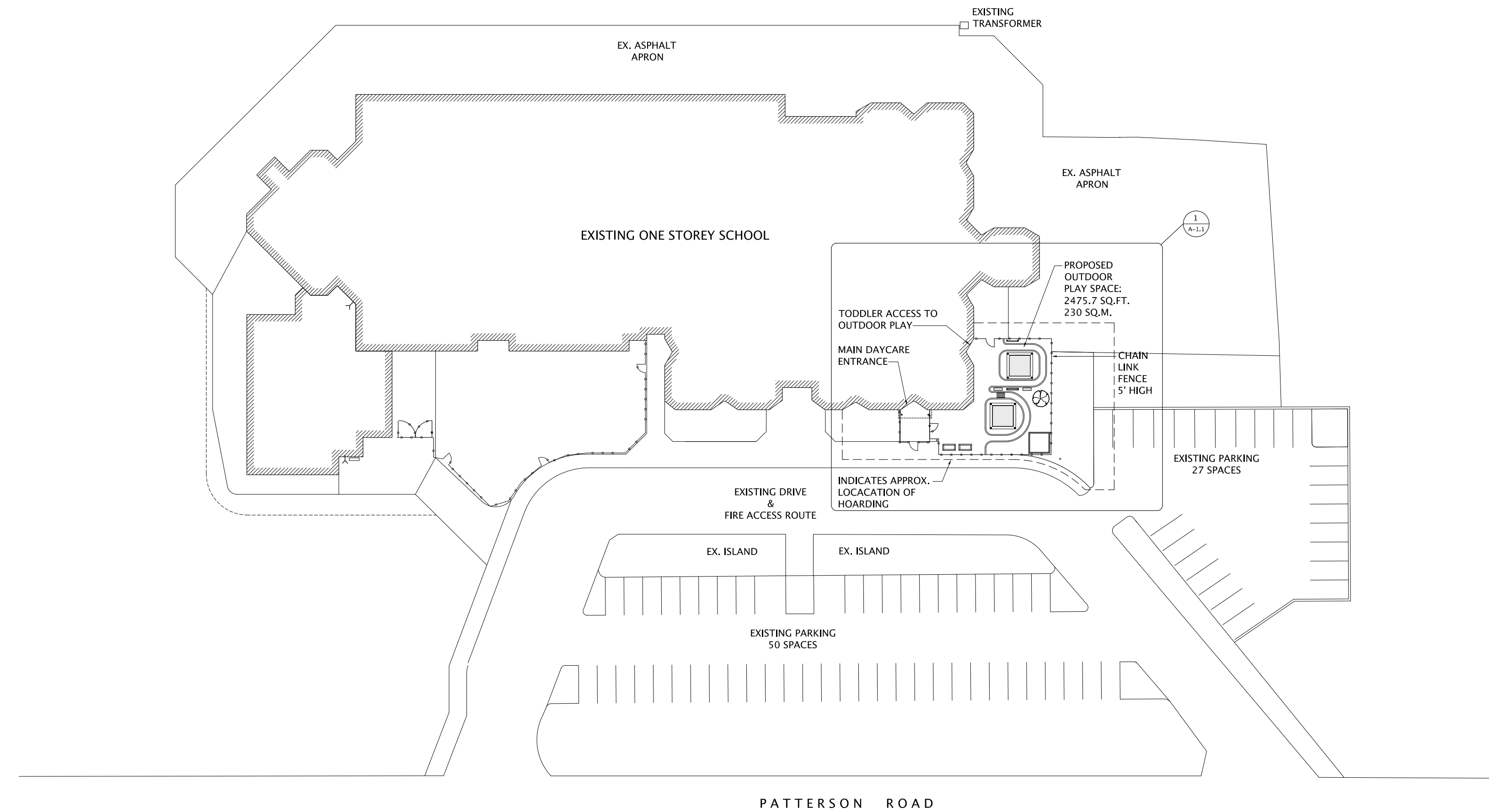
1256 Line 3 S., Oro-Medonte, ON L0L 2L0
ph: 705.737.3365 akiko@formworkstudio.ca

ITEM	ONTARIO BUILDING CODE DATAMATRIX PARTS 3 & 9	OBC REFERENCE																																																		
1	PROJECT DESCRIPTION <input type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input checked="" type="checkbox"/> ALTERATION <input type="checkbox"/> CHANGE OF USE	<input checked="" type="checkbox"/> PART 11 <input checked="" type="checkbox"/> PART 3 <input type="checkbox"/> PART 9																																																		
2	MAJOR OCCUPANCY(S) GROUP A, DIVISION 2 (SCHOOL)	3.1.2.1.(1) 9.10.2																																																		
3	BUILDING AREA (m²) EXISTING: 4374.5 NEW: 0 TOTAL: 4374.5	1.4.1.2. [A] 1.4.1.2. [A]																																																		
4	GROSS AREA (m²) EXISTING: 4374.5 NEW: 0 TOTAL: 4374.5	1.1.3.2 1.1.3.2																																																		
5	NUMBER OF STOREYS ABOVE GRADE: 1 BELOW GRADE: 0	3.2.1.1 & 1.1.3.2 9.10.4																																																		
6	NUMBER OF STREETS/ACCESS ROUTES: 1 STREETS	3.2.2.10 & 3.2.5 9.10.20																																																		
7	BUILDING CLASSIFICATION: GROUP A, DIVISION 2 UP TO 2 STOREYS (3.2.2.25)	3.2.2.20 - 3.2.2.83 9.10.2																																																		
8	SPRINKLER SYSTEM PROPOSED EXISTING BUILDING <input type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> BASEMENT ONLY <input type="checkbox"/> SELECTED COMPARTMENTS <input type="checkbox"/> IN LIEU OF ROOF RATING <input type="checkbox"/> SELECTED FLOOR AREAS <input checked="" type="checkbox"/> NOT SPRINKLER	3.2.2.20 - 3.2.2.83 3.2.1.5 3.2.2.17 INDEX 9.10.8.2 INDEX																																																		
10	STANDPIPE REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.2.9 N/A																																																		
11	FIRE ALARM REQUIRED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO EXISTING	3.2.4 9.10.18																																																		
12	WATER SERVICE/SUPPLY IS ADEQUATE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO EXISTING	3.2.5.7 N/A																																																		
13	HIGH BUILDING <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.2.6 N/A																																																		
14	PERMITTED CONSTRUCTION <input type="checkbox"/> COMBUSTIBLE <input checked="" type="checkbox"/> NON-COMBUSTIBLE <input type="checkbox"/> BOTH ACTUAL CONSTRUCTION <input type="checkbox"/> COMBUSTIBLE <input checked="" type="checkbox"/> NON-COMBUSTIBLE <input type="checkbox"/> BOTH	3.2.2.20 - 3.2.2.83 9.10.6																																																		
15	MEZZANINE(S) AREA (m²) N/A	3.2.1.1.(3) - 3.2.1.1.(8) 9.10.4.1																																																		
16	OCCUPANT LOAD BASED <input type="checkbox"/> m ² /PERSON <input checked="" type="checkbox"/> DESIGN OF DAYCARE TOTAL OCCUPANCY LOAD: 50 persons	3.1.17 9.9.1.3																																																		
17	BARRIER FREE DESIGN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO EXPLAIN	3.8 9.5.2																																																		
18	HAZARDOUS SUBSTANCES <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.3.1.2 & 3.3.1.19 9.10.1.3 (4)																																																		
19	<table border="1"> <tr> <th rowspan="2">REQUIRED FIRE RESISTANCE RATING (FRR)</th> <th colspan="2">HORIZONTAL ASSEMBLIES</th> <th rowspan="2">LISTED DESIGN NO. OR DESCRIPTION (SG-2)</th> </tr> <tr> <th>FRR (hours)</th> <th>EXISTING</th> </tr> <tr> <td>FLOORS:</td> <td>N/A</td> <td>Minutes</td> <td rowspan="3">EXISTING</td> </tr> <tr> <td>ROOF:</td> <td>N/A</td> <td>Minutes</td> </tr> <tr> <td>DEMISING WALL:</td> <td>N/A</td> <td>Minutes</td> </tr> <tr> <th rowspan="2">SUPPORTING MEMBERS</th> <th colspan="2">FRR (hours)</th> <th rowspan="2">LISTED DESIGN NO. OR DESCRIPTION (SG-2)</th> </tr> <tr> <th>FRR (hours)</th> <th>EXISTING</th> </tr> <tr> <td>FLOORS:</td> <td>N/A</td> <td>Minutes</td> <td rowspan="3">EXISTING</td> </tr> <tr> <td>ROOF:</td> <td>N/A</td> <td>Minutes</td> </tr> <tr> <td>DEMISING WALL:</td> <td>N/A</td> <td>Minutes</td> </tr> </table>	REQUIRED FIRE RESISTANCE RATING (FRR)	HORIZONTAL ASSEMBLIES		LISTED DESIGN NO. OR DESCRIPTION (SG-2)	FRR (hours)	EXISTING	FLOORS:	N/A	Minutes	EXISTING	ROOF:	N/A	Minutes	DEMISING WALL:	N/A	Minutes	SUPPORTING MEMBERS	FRR (hours)		LISTED DESIGN NO. OR DESCRIPTION (SG-2)	FRR (hours)	EXISTING	FLOORS:	N/A	Minutes	EXISTING	ROOF:	N/A	Minutes	DEMISING WALL:	N/A	Minutes	3.3.1.20 TO 3.3.1.83 3.2.1.4 9.10.8 9.10.9																		
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20	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS-EXISTING	3.2.3 9.10.14																																																		
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21	OTHER																																																			



1 KEY PLAN
SCALE: 1:300

ITEM	ONTARIO BUILDING CODE DATAMATRIX PART 11 RENOVATION OF EXISTING BUILDING	OBC REF.
1	EXISTING BUILDING CLASSIFICATION: EXISTING USE: GROUP A DIVISION 2 CONSTRUCTION INDEX: 3 HAZARD INDEX: 3 <input checked="" type="checkbox"/> NOT APPLICABLE (NO CHANGE TO MAJOR OCCUPANCY)	11.2.1 T 11.2.1.1A T 11.2.1.1B TO N
2	ALTERATION TO EXISTING BUILDING IS: <input checked="" type="checkbox"/> BASIC RENOVATION <input type="checkbox"/> EXTENSIVE RENOVATION	11.3.3.1 11.3.3.2
3	REDUCTION IN PERFORMANCE LEVEL: STRUCTURAL: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES INCREASE IN OCCUPANT LOAD: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES CHANGE OF MAJOR OCCUPANCY: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES PLUMBING: <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
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 checked="" type="checkbox"/> NO <input type="checkbox"/> YES (EXPLAIN) 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
5	COMPLIANCE ALTERNATIVES PROPOSED: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (PROVIDE NUMBERS)	11.5.1
6	ALTERNATIVE MEASURES PROPOSED: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (PROVIDE EXPLAIN)	11.5.2



2 SITE PLAN
SCALE: 1:500



LOCATION PLAN

No.	Revisions	Date
5	ISSUED FOR TENDER	27/OCT/22
4	ISSUED FOR PERMIT	14/OCT/22
3	ISSUED FOR 80% CLIENT REVIEW	01/SEP/22
2	ISSUED FOR REVIEW	15/JUN/22
1	ISSUED FOR REVIEW	29/APR/22

Orientation

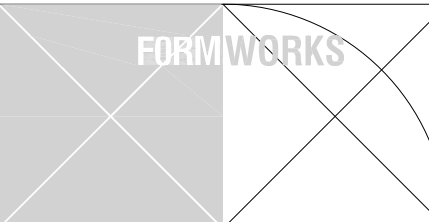
PROJECT NORTH

Seal

The Contractor shall check and verify all dimensions and report all errors and omission to the Architect for written direction before proceeding with the work.

A A Detail No.
B Sheet No. where detailed

Formworks, Inc. Architects



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 akko@formworkstudio.ca

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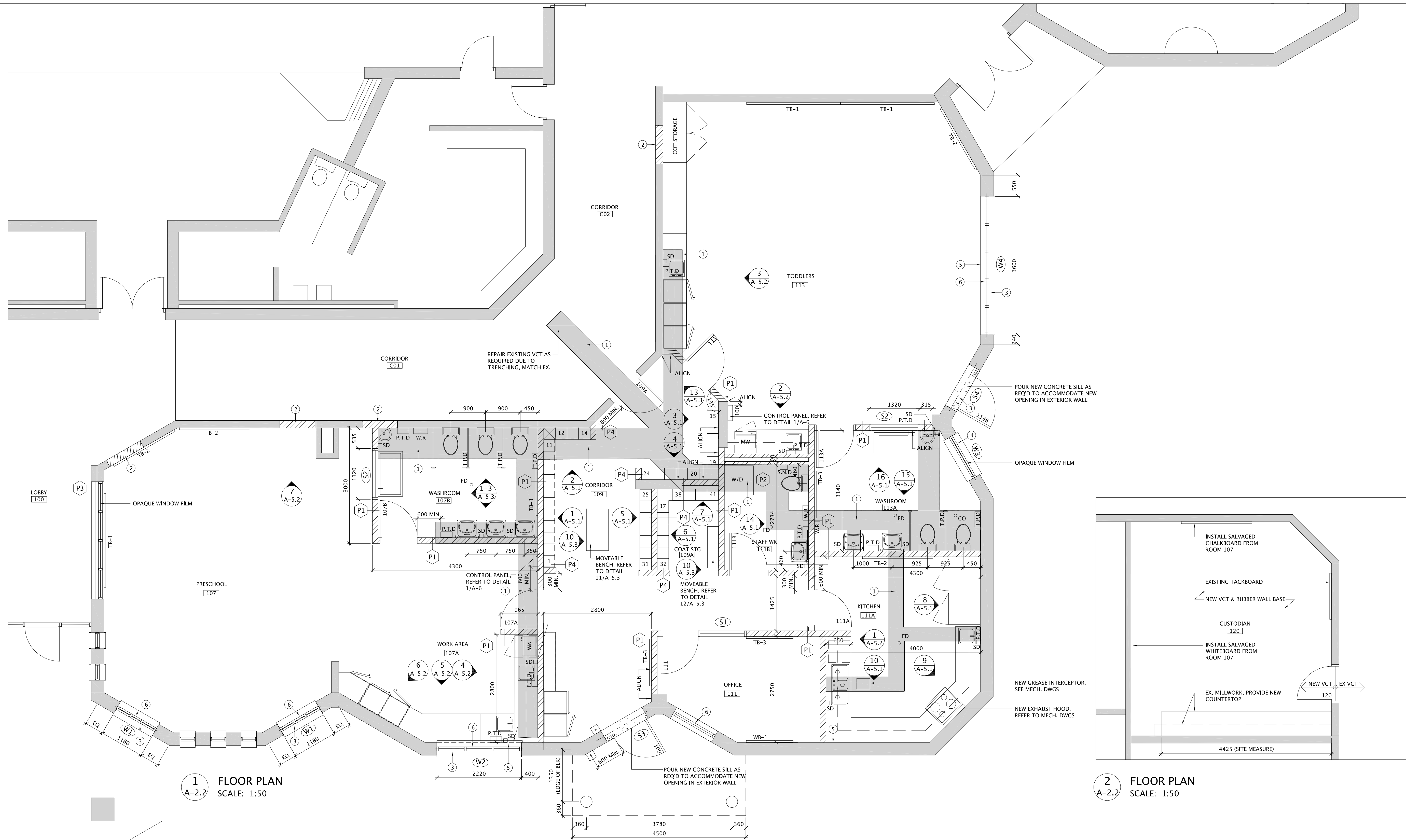
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Project
**INTERIOR CHILDCARE RENOVATIONS
 TECUMSETH BEETON ELEMENTARY SCHOOL**

43 Patterson Street North
 Beeton, Ontario
 Drawing Title

KEY PLAN AND SITE PLAN

Scale	AS NOTED	Drawing No.
Drawn by	DL	A-1
Checked by	KC	
Approved by	AC	
Project No.	2022-13062T	



1 FLOOR PLAN
A-2.2 SCALE: 1:50

2 FLOOR PLAN
A-2.2 SCALE: 1:50

LEGEND: PARTITION TYPES

- INDICATES EXISTING PARTITION TO REMAIN
- ▨ INDICATES NEW CONCRETE BLOCK WALL
- INDICATES NEW PARTITION

PARTITION TYPES:

- P1 140mm CONCRETE BLOCK WALL, ENTIRE ASSEMBLY TO EXTEND FROM TOP OF CONG. SLAB TO 200mm ABOVE FINISHED CEILING
- P2 90mm CONCRETE BLOCK WALL, ENTIRE ASSEMBLY TO EXTEND FROM TOP OF CONG. SLAB TO 200mm ABOVE FINISHED CEILING
- P3 15.9mm ABUSE RESISTANT GYPSUM BD. ONE SIDE (LOBBY), ON 92mm STEEL STUDS C/W 90mm ROCKWOOL SOUND ATTENUATION BATT INSULATION. NOTE: PARTITION TO BE BUILT IN OPENING ON LOBBY SIDE FROM SILL TO HEAD OF OPENING
- P4 PARTIAL HEIGHT WALL 140mm CONCRETE BLOCK FROM TOP OF CONCRETE SLAB TO 1600mm A.F.F.

GENERAL NOTES:

1. PATCH AND REPAIR ALL DAMAGE TO EXISTING WALL SURFACES AS A RESULT OF REMOVALS, TYPICAL.
2. PATCH AND REPAIR ALL DAMAGE TO EXISTING FINISHES TO REMAIN AS A RESULT OF REMOVALS, TYPICAL.
3. CLEAN AND MAKE GOOD EXISTING FLOOR AND WALL BASE TO REMAIN.
4. PATCH AND REPAIR ALL DAMAGE TO EXISTING CONCRETE SLAB AS REQ'D DUE TO REMOVALS OF CONCRETE BLOCK WALLS AND REMOVAL OF FLOOR FINISH, TYPICAL.
5. NEW BLOCK WALLS LOCATED IN AREAS WITH EXISTING FLOOR FINISH TO RECEIVE CT WALL BASE UNLESS OTHERWISE NOTED.

KEY NOTES:

- 1) PATCH AND REPAIR ALL DAMAGE TO EXISTING CONCRETE SLAB AS REQ'D DUE TO TRENCHING FOR NEW SANITARY LINE, TYP.
- 2) PROVIDE NEW CONG. BLOCK TO MATCH EXISTING TO INFILL EXISTING OPENING, PAINT TO MATCH EXISTING.
- 3) REMOVE CUT FACE BRICK AND TOOTH IN SALVAGED FACE BRICK AS REQUIRED AT ALL NEW WINDOWS AND ENTRANCE SCREENS.
- 4) INFILL EXISTING OPENING BELOW NEW WINDOW WITH NEW CONCRETE BLOCK AND SALVAGED FACE BRICK, REMOVE CUT MASONRY AND TOOTH IN NEW/SALVAGED
- 5) INFILL EXISTING OPENING IN CONCRETE BLOCK WALL AT EX. PA SPEAKERS TO BE REMOVED, REMOVE CUT BLOCK AND TOOTH IN NEW, REFER TO PHOTOS 22, 31, AND 38 ON SHEET A-2.2
- 6) PROVIDE ROOM DARKENING SHADE ON WINDOW AS PER SPECIFICATION

WASHROOM ACCESSORIES LEGEND:

- PTD PAPER TOWEL DISPENSER
- SD SOAP DISPENSER
- SND SANITARY NAPKIN DISPOSAL
- WR WASTE RECEPTACLE

NOTE: WASHROOM ACCESSORIES LISTED ABOVE TO BE SUPPLIED BY SCDR AND INSTALLED BY THE CONTRACTOR. INSTALLATION TO BE INCLUDED IN BASE BID.

5	ISSUED FOR TENDER	27/OCT/22
4	ISSUED FOR PERMIT	14/OCT/22
3	ISSUED FOR 80% CLIENT REVIEW	01/SEP/22
2	ISSUED FOR REVIEW	15/JUN/22
1	ISSUED FOR REVIEW	29/APR/22
No.	Revisions	Date

Orientation

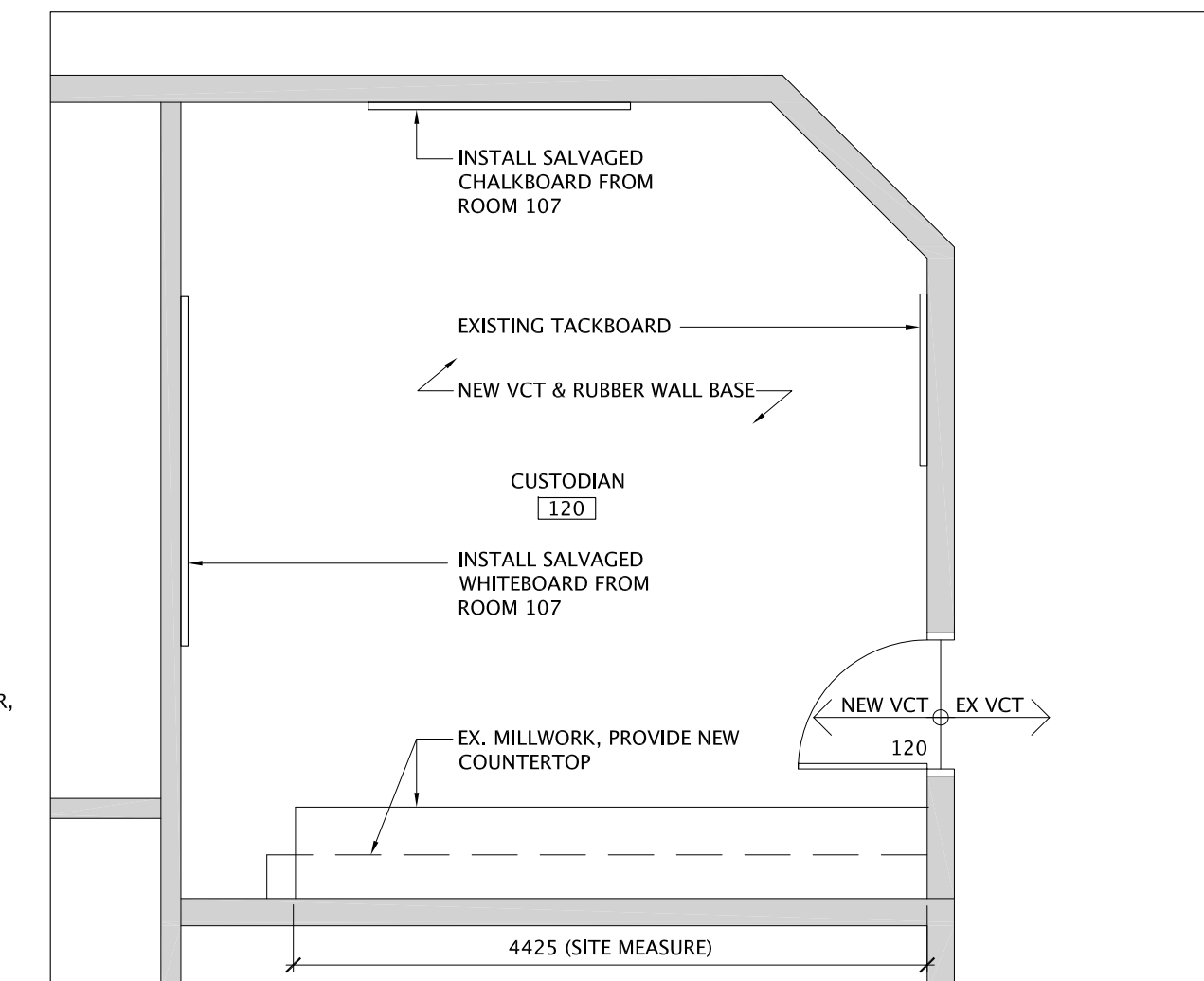
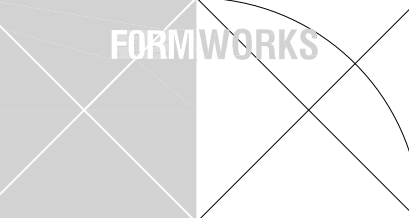
Seal

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A A Detail No.
B B Sheet No. where detailed

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Simcoe County District School Board

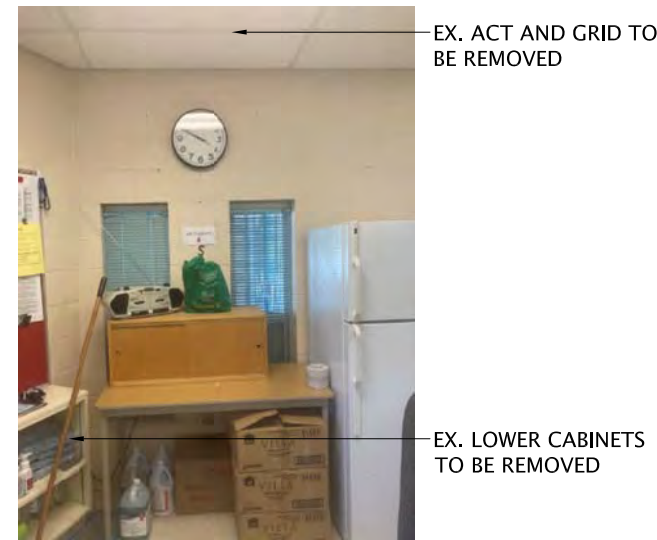
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Project
INTERIOR CHILDCARE RENOVATIONS
TECUMSETH BEETON ELEMENTARY SCHOOL

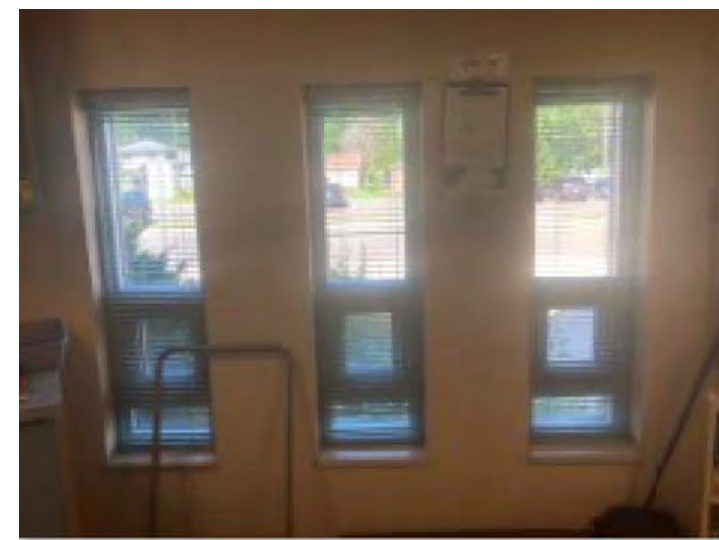
43 Patterson Street North
Beeton, Ontario
Drawing Title

FLOOR PLANS

Scale	1:50	Drawing No. A-2.2
Drawn by	DL	
Checked by	KC	
Approved by	AC	
Project No.	2022-13062T	



1 LEARNING CENTRE 107
A-2.3



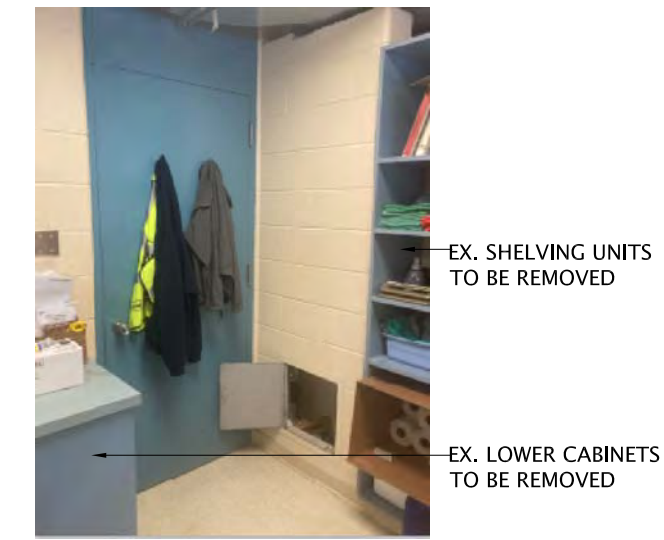
2 LEARNING CENTRE 107
A-2.3



3 LEARNING CENTRE 107
A-2.3



4 LEARNING CENTRE 107
A-2.3



5 LEARNING CENTRE 107
A-2.3



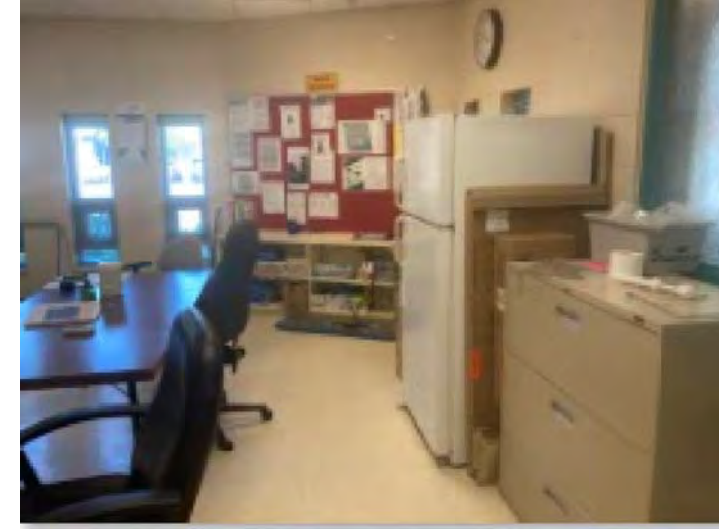
6 LEARNING CENTRE 107
A-2.3



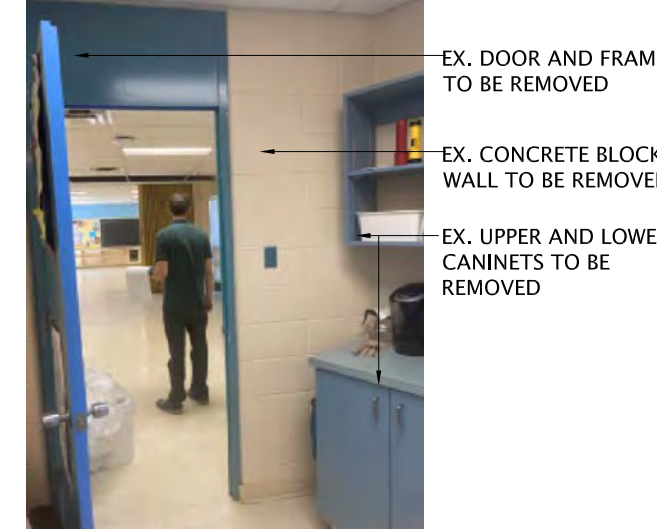
7 LEARNING CENTRE 107
A-2.3



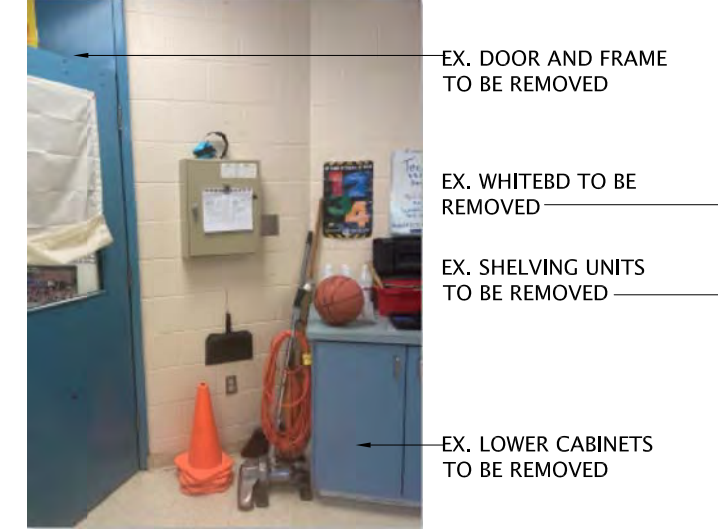
8 LEARNING CENTRE 107
A-2.3



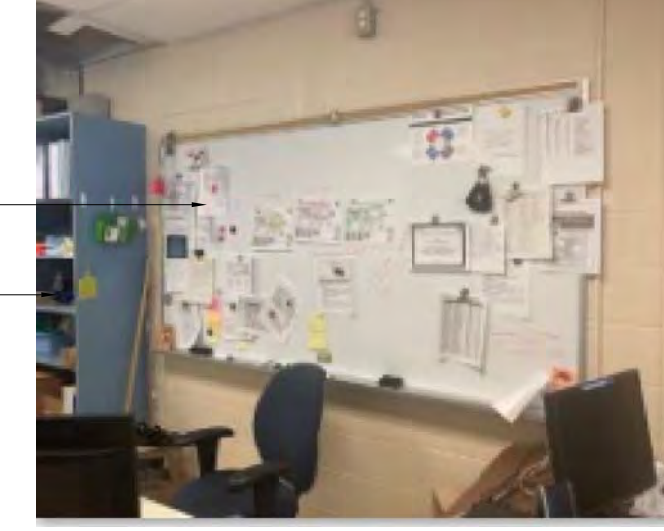
9 LEARNING CENTRE 107
A-2.3



10 LEARNING CENTRE 107
A-2.3



11 LEARNING CENTRE 107
A-2.3



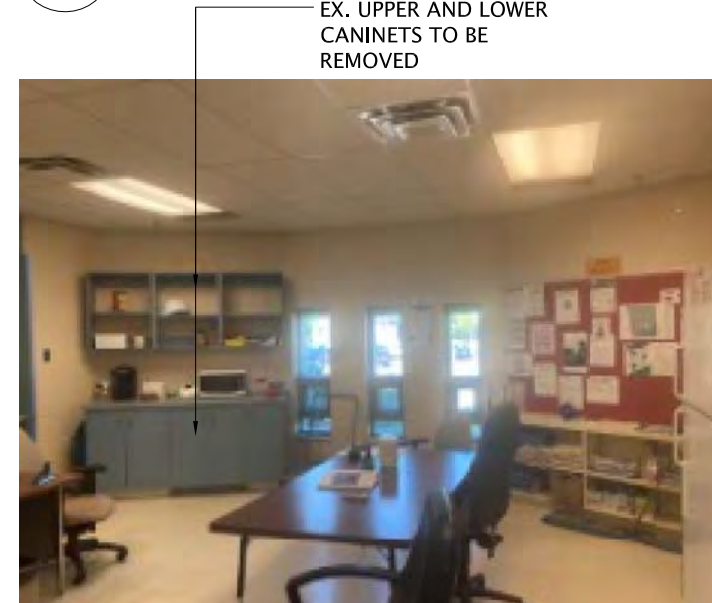
12 LEARNING CENTRE 107
A-2.3



13 LEARNING CENTRE 107
A-2.3



14 LEARNING CENTRE 107
A-2.3



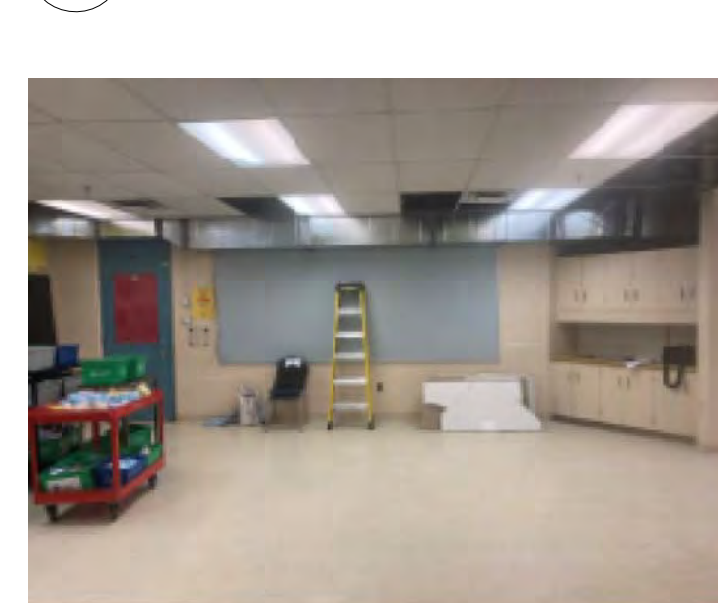
15 LEARNING CENTRE 107
A-2.3



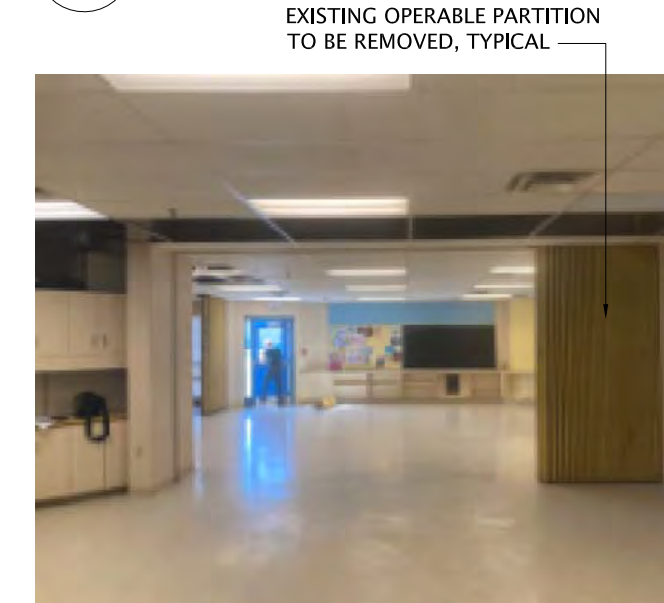
16 CLASSROOM 109
A-2.3



17 CLASSROOM 109
A-2.3



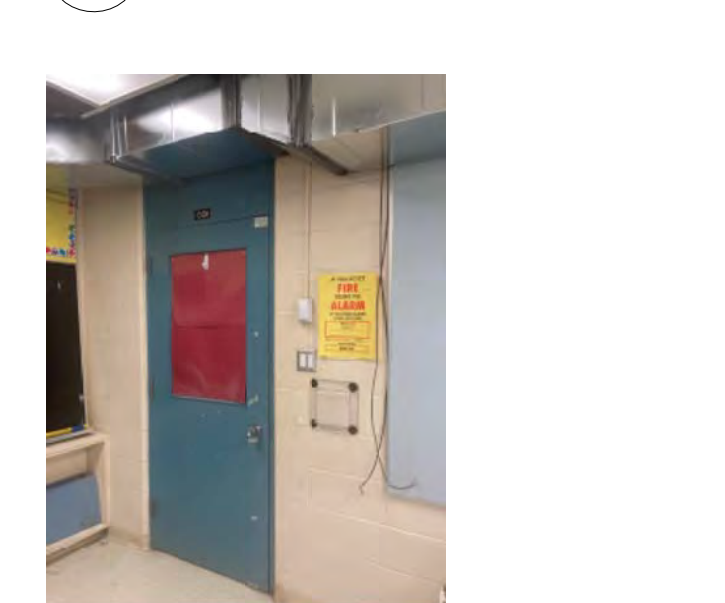
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A-2.3



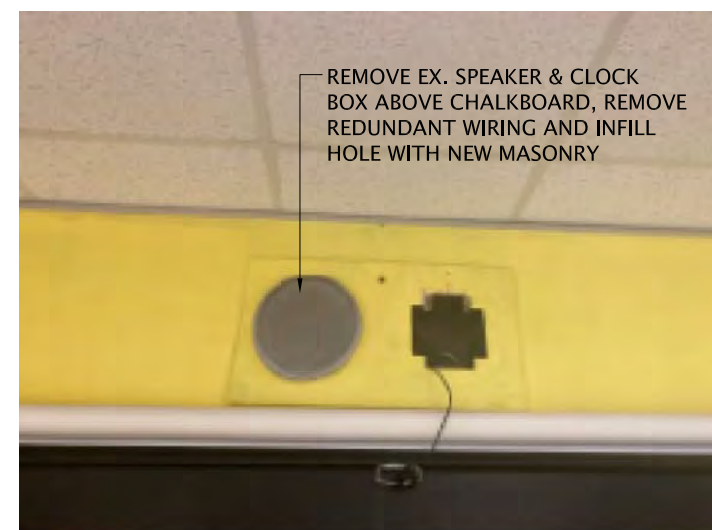
19 CLASSROOM 109
A-2.3



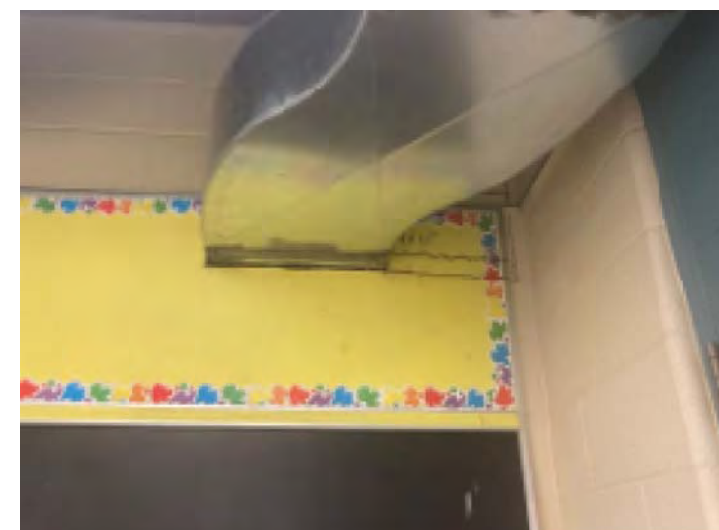
20 CLASSROOM 109
A-2.3



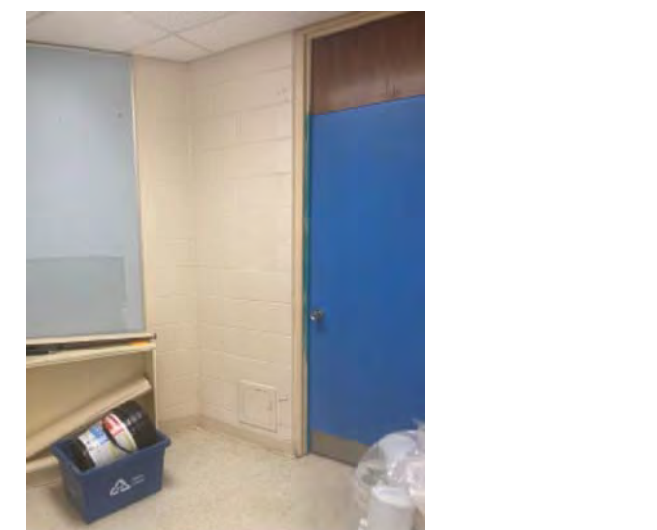
22 CLASSROOM 109
A-2.3



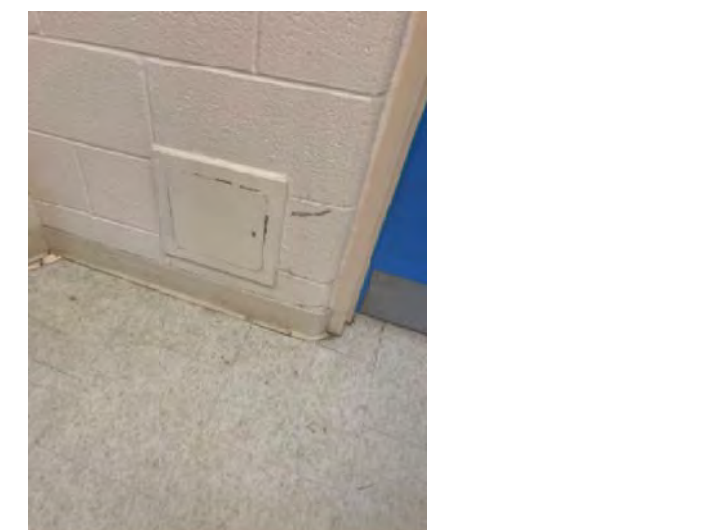
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A-2.3



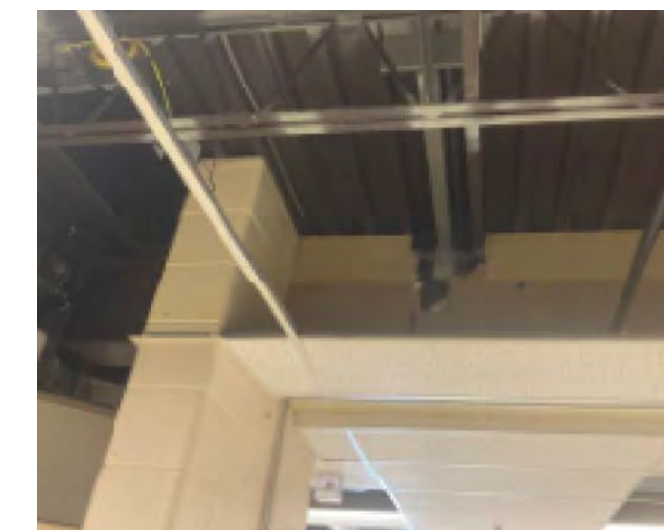
23 CLASSROOM 109
A-2.3



24 CLASSROOM 109
A-2.3



25 CLASSROOM 109
A-2.3



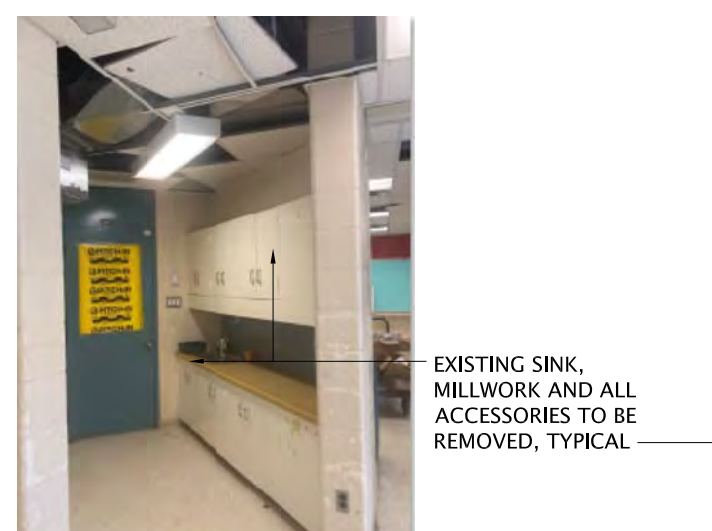
26 CLASSROOM 109
A-2.3



27 CLASSROOM 109
A-2.3



28 CLASSROOM 111
A-2.3



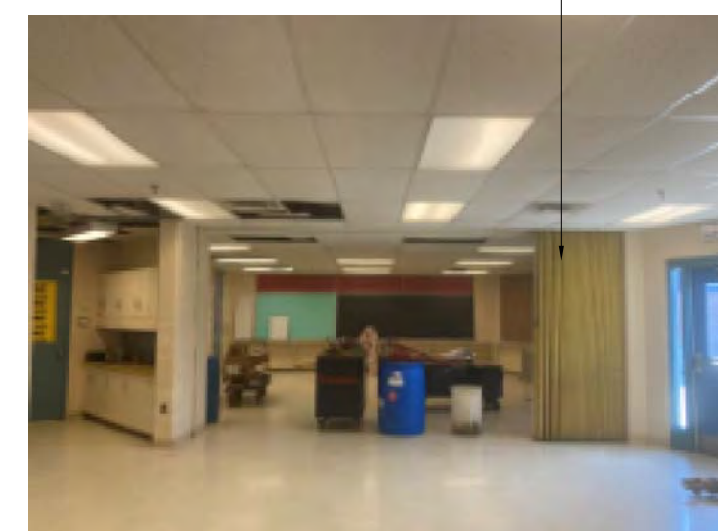
29 CLASSROOM 111
A-2.3



30 CLASSROOM 111
A-2.3



31 CLASSROOM 111
A-2.3



32 CLASSROOM 111
A-2.3



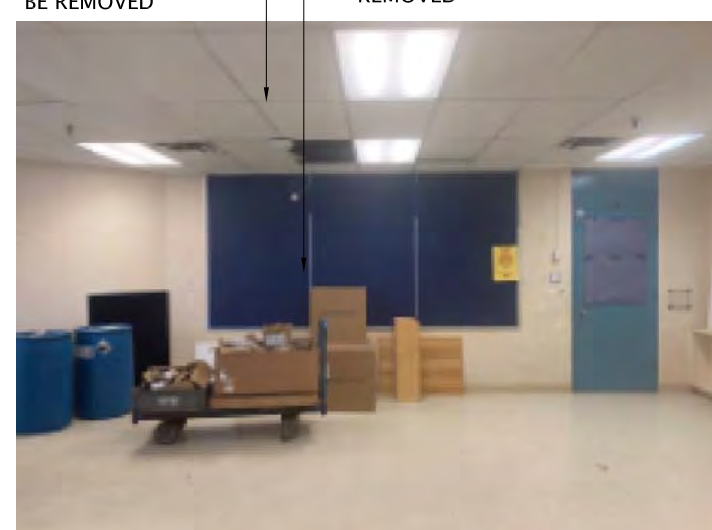
33 CLASSROOM 111
A-2.3



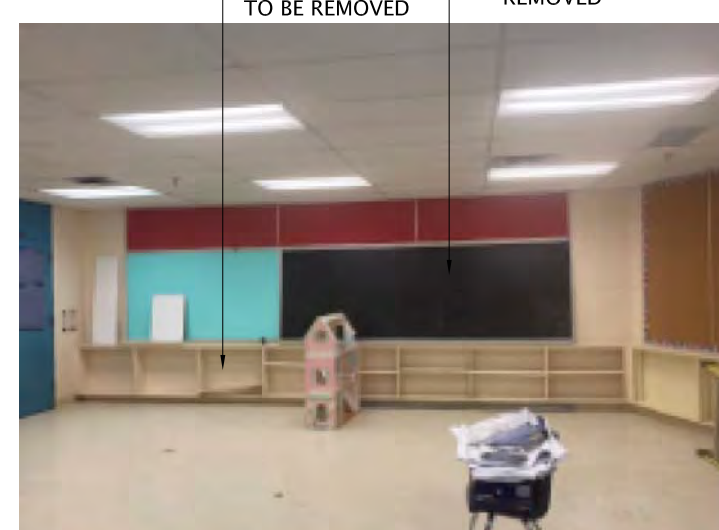
34 CLASSROOM 113
A-2.3



35 CLASSROOM 113
A-2.3



36 CLASSROOM 113
A-2.3



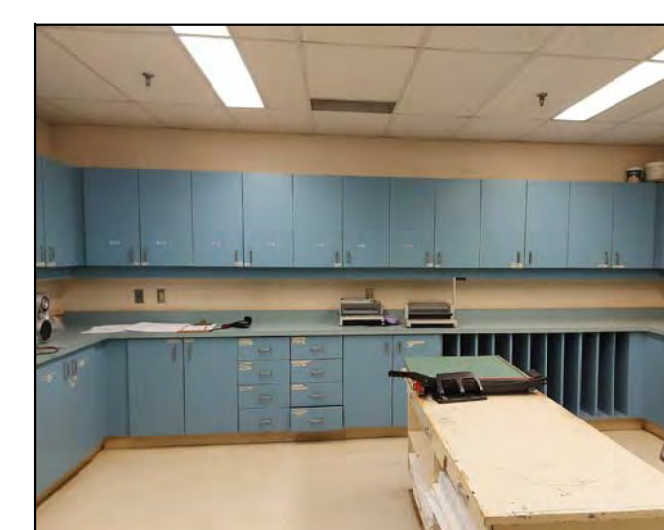
37 CLASSROOM 113
A-2.3



38 CLASSROOM 113
A-2.3



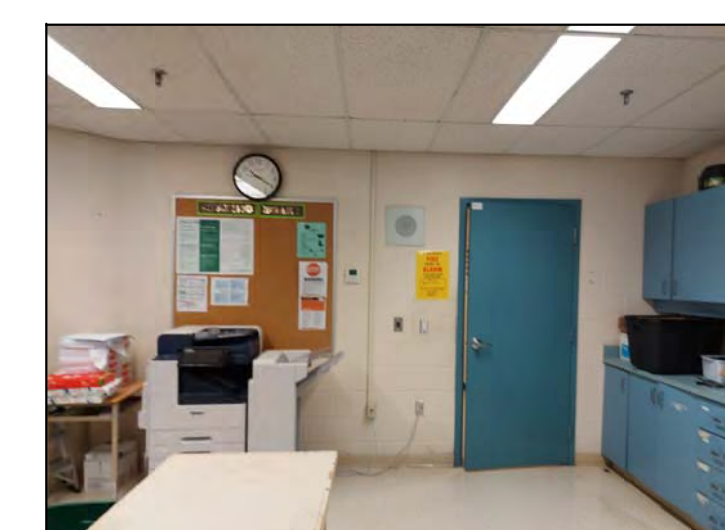
39 STORAGE RM 120
A-2.3



40 STORAGE RM 120
A-2.3



41 STORAGE RM 120
A-2.3



42 STORAGE RM 120
A-2.3

5	ISSUED FOR TENDER	27/OCT/22
4	ISSUED FOR PERMIT	14/OCT/22
3	ISSUED FOR 80% CLIENT REVIEW	01/SEP/22
2	ISSUED FOR REVIEW	15/JUN/22
1	ISSUED FOR REVIEW	29/APR/22
No.	Revisions	Date

Orientation

Seal

The Contractor shall check and verify all dimensions and report all errors and omission to the Architect for written direction before proceeding with the work.

A Detail No.
B Sheet No. where detailed

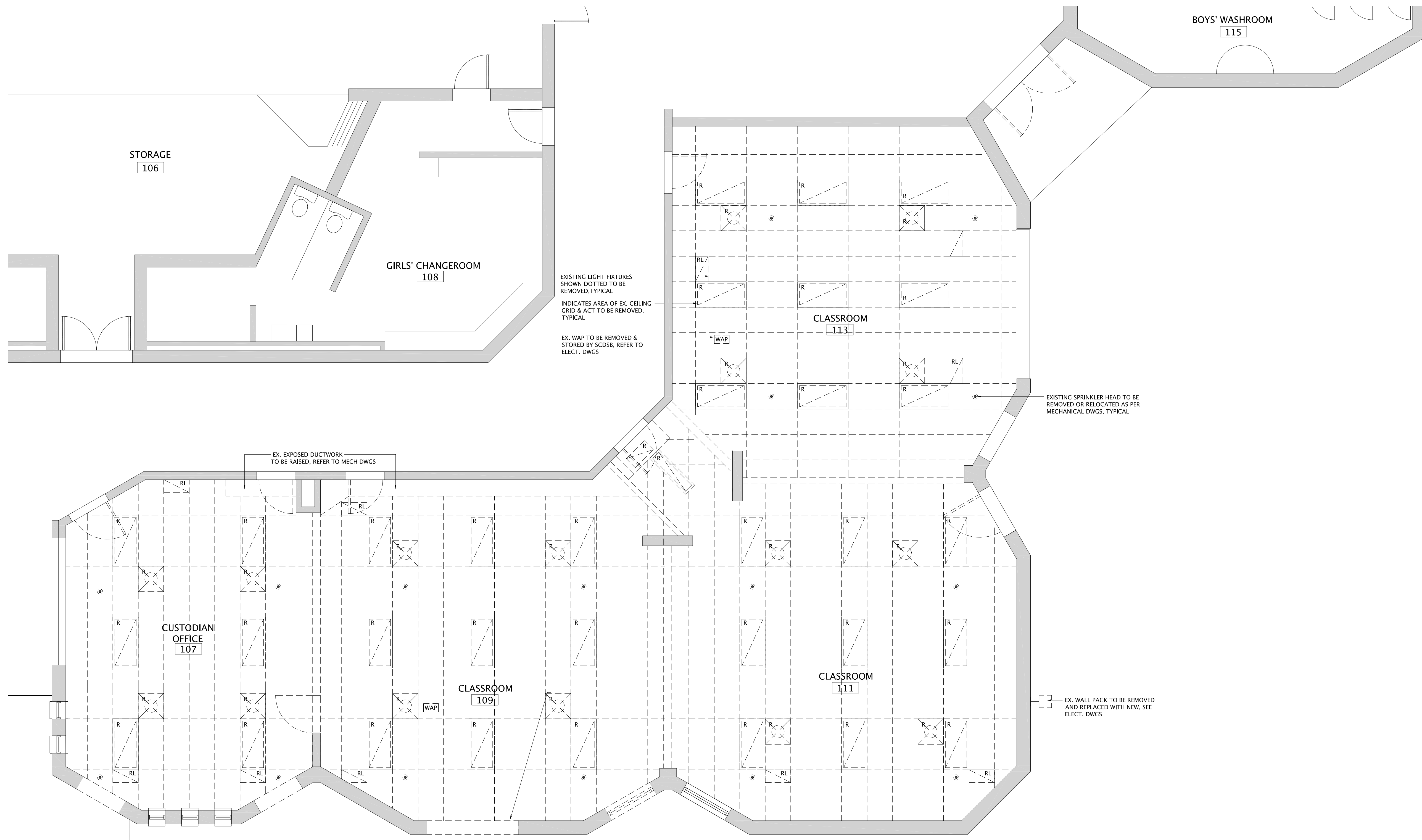
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1256 Line 3 S., Oro-Medonte, ON
L0L 2L0 ph: 705.737.3365
skiko@formworkstudio.ca

Simcoe County District School Board
1170 Highway 26t
Midhurst, Ontario
L0L 1X0
Phone: (705) 728-7570
Fax: (705) 728-2265
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Project
**INTERIOR CHILDCARE RENOVATIONS
TECUMSETH BEETON ELEMENTARY SCHOOL**

43 Patterson Street North
Beeton, Ontario
Drawing Title
PHOTOGRAPHS

Scale	Drawing No.
Drawn by S. DL	A-2.3
Checked by KC	
Approved by AC	
Project No. 2022-13062T	



5	ISSUED FOR TENDER	27/OCT/22
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Orientation

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A A Detail No.
B B Sheet No. where detailed

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1 DEMOLITION REFLECTED CEILING PLAN
 A-3.1 SCALE: 1:50

- LEGEND:**
- INDICATES 610X 220FLUORESCENT LIGHT FIXTURE
 - INDICATES 305X1220 FLORESCENT LIGHT FIXTURE
 - INDICATES SUPPLY AIR DIFFUSER
 - INDICATED RETURN AIR DIFFUSER
 - INDICATES SPRINKLER HEAD
 - INDICATES WIRELESS ACCESS POINT
 - EX DENOTES EXISTING FIXTURE TO REMAIN
 - R DENOTES EXISTING FIXTURE TO BE REMOVED
 - RL DENOTES EXISTING FIXTURE TO BE RELOCATED

GENERAL NOTES:

- REMOVE EX. SUSPENDED ACT CEILING AND GRID SHOWN DOTTED, TYPICAL.
- REMOVE AND DISPOSE OF ALL CEILING TILE LOCATED IN EXISTING ROOMS 107, 109, 111, AND 113.

Simcoe County District School Board

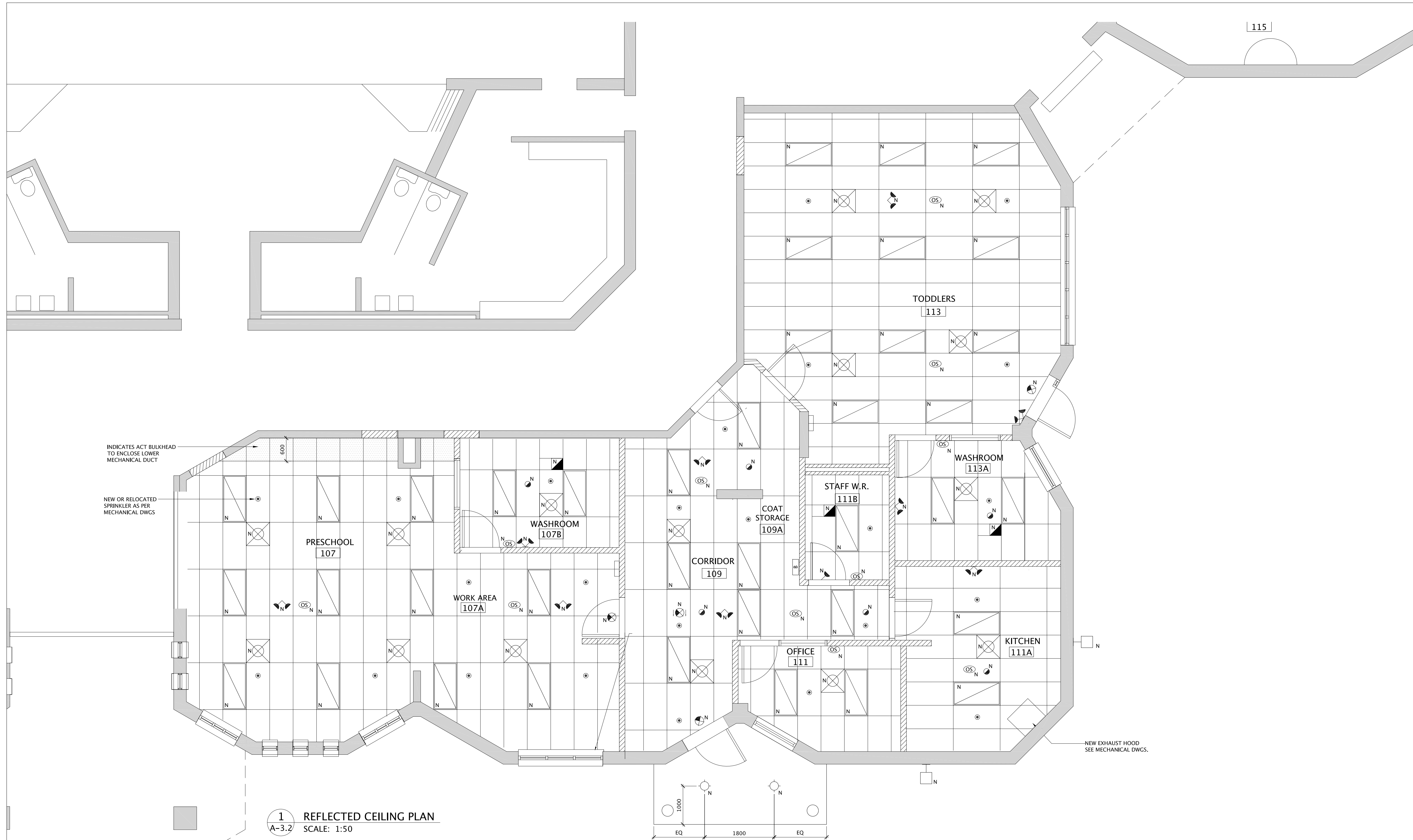
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Project
**INTERIOR CHILDCARE RENOVATIONS
 TECUMSETH BEETON ELEMENTARY SCHOOL**

43 Patterson Street North
 Beeton, Ontario
 Drawing Title
**DEMOLITION REFLECTED CEILING
 PLAN**

Scale	1:50	Drawing No. A-3.1
Drawn by	DL	
Checked by	KC	
Approved by	AC	
Project No.	2022-13062T	



1 REFLECTED CEILING PLAN
A-3.2 SCALE: 1:50

LEGEND:

- FLUORESCENT LIGHT FIXTURE
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- EXHAUST FAN
- EX EXISTING FIXTURE TO REMAIN
- N NEW FIXTURE
- FIRE ALARM HEAT OR SMOKE DETECTOR, SEE ELECT. DWGS
- CEILING MOUNTED EXIT SIGN WITH DIRECTIONAL ARROW
- CEILING MOUNTED EXIT SIGN
- CEILING MOUNTED OCCUPANCY SENSOR
- EMERGENCY LIGHTING
- EMERGENCY LIGHTING WITH BATTERY UNIT
- WALL PACK LUMINAIRE
- SPRINKLER HEAD
- RECESSED LIGHT FIXTURE
- EMERGENCY LIGHTING BATTERY PACK

GENERAL NOTES:

1. SUPPLY AND INSTALL NEW CEILING GRID AS INDICATED ON DRAWING.
2. COORDINATE ALL CEILING FIXTURE LOCATIONS WITH ELECTRICAL DRAWINGS.
3. SUPPLY AND INSTALL NEW CEILING TILE AT PRESCHOOL 109, WORK AREA 109B, WASHROOM 109A, CORRIDOR C110, COAT STORAGE 110A, OFFICE 110, KITCHEN 111, WASHROOM 113A, STAFF W.R. 112, TODDLERS 113.

5	ISSUED FOR TENDER	27/OCT/22
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No.	Revisions	Date

Orientation

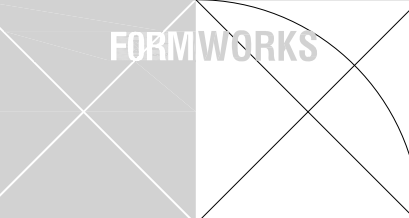
Seal

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- A Detail No.
- B Sheet No. where detailed

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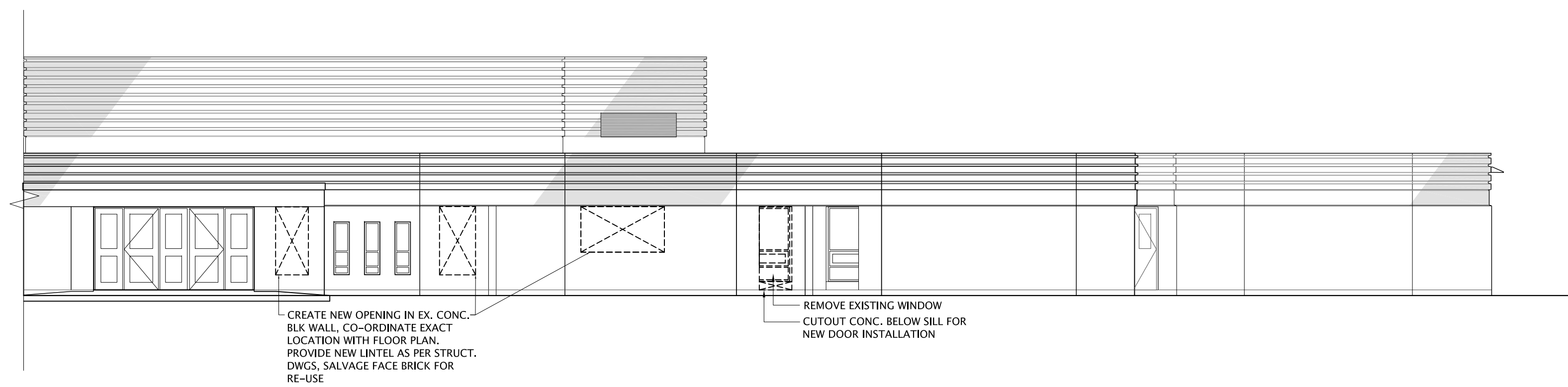
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Project
**INTERIOR CHILDCARE RENOVATIONS
 TECUMSETH BEETON ELEMENTARY SCHOOL**

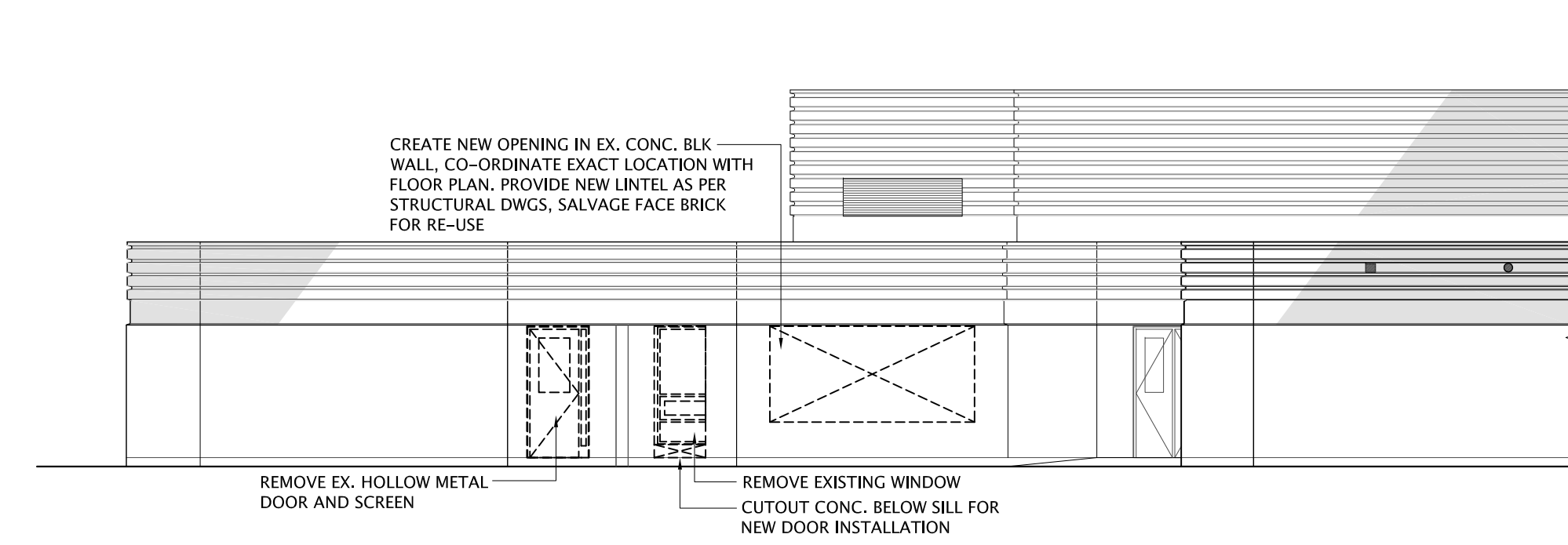
43 Patterson Street North
 Beeton, Ontario
 Drawing Title

REFLECTED CEILING PLAN

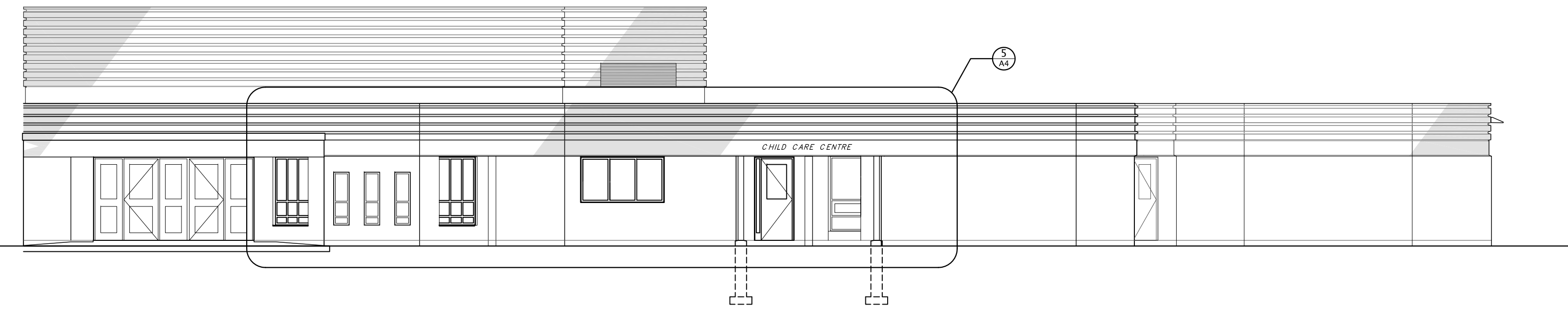
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Drawn by	DL	
Checked by	KC	
Approved by	AC	
Project No.	2022-13062T	



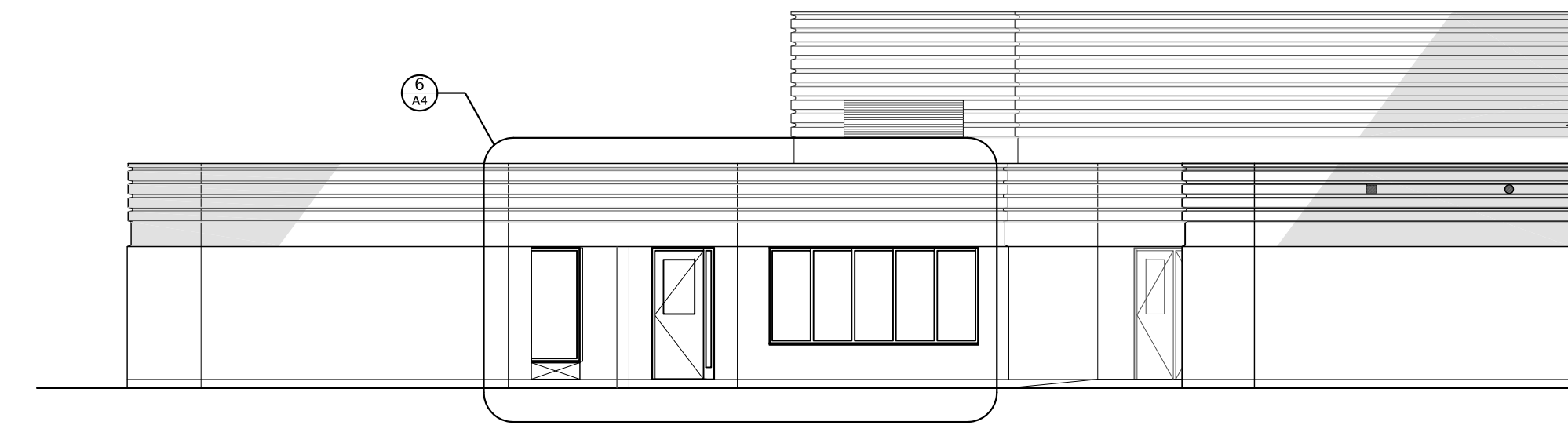
1 EXISTING WEST ELEVATION (PARTIAL)
A-4 SCALE: 1:100



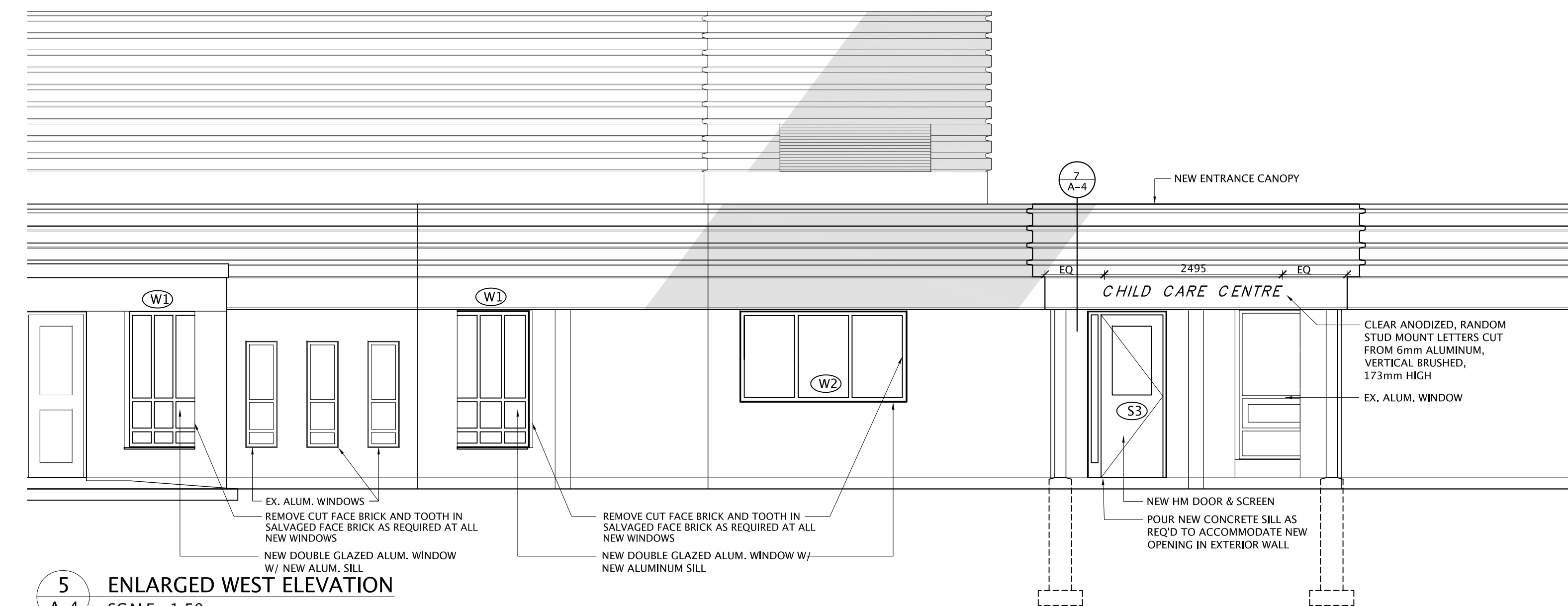
2 EXISTING SOUTH ELEVATION (PARTIAL)
A-4 SCALE: 1:100



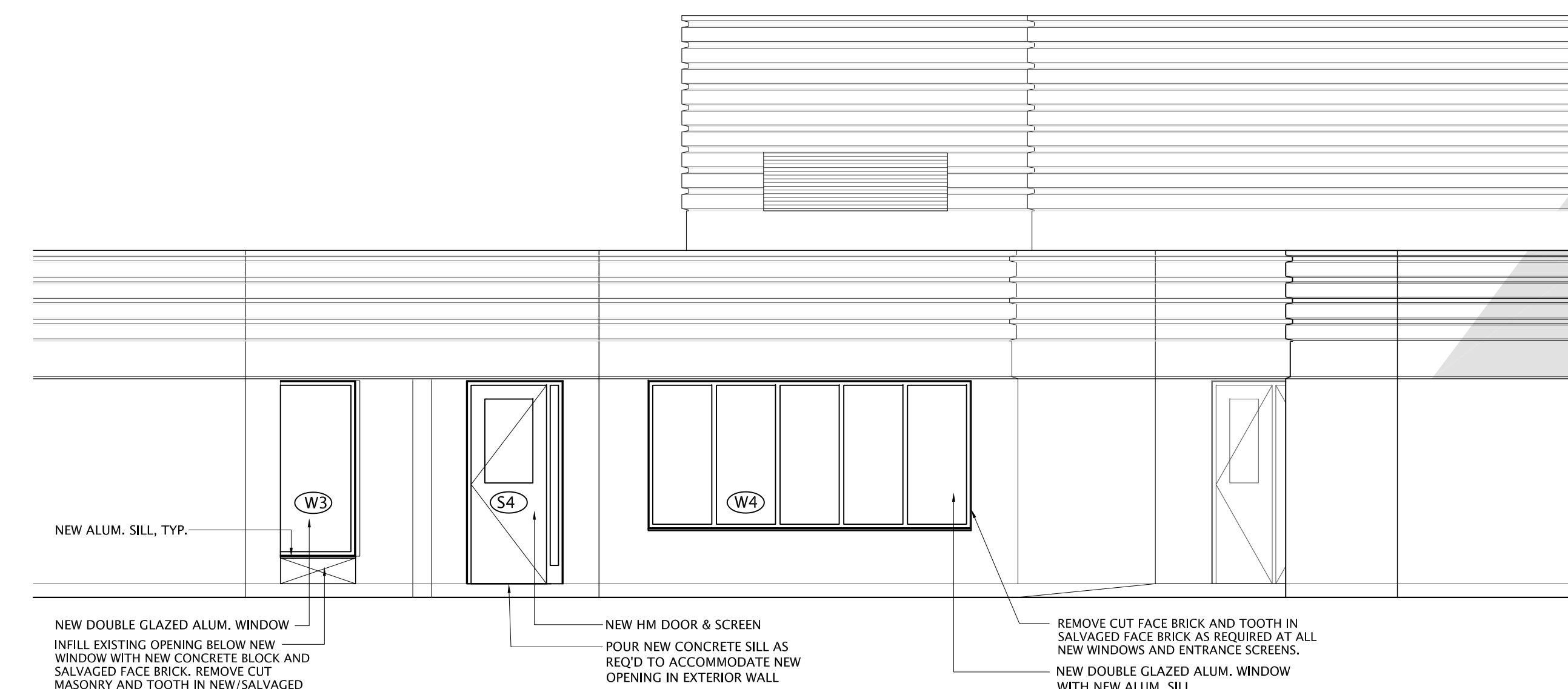
3 PROPOSED WEST ELEVATION (PARTIAL)
A-4 SCALE: 1:100



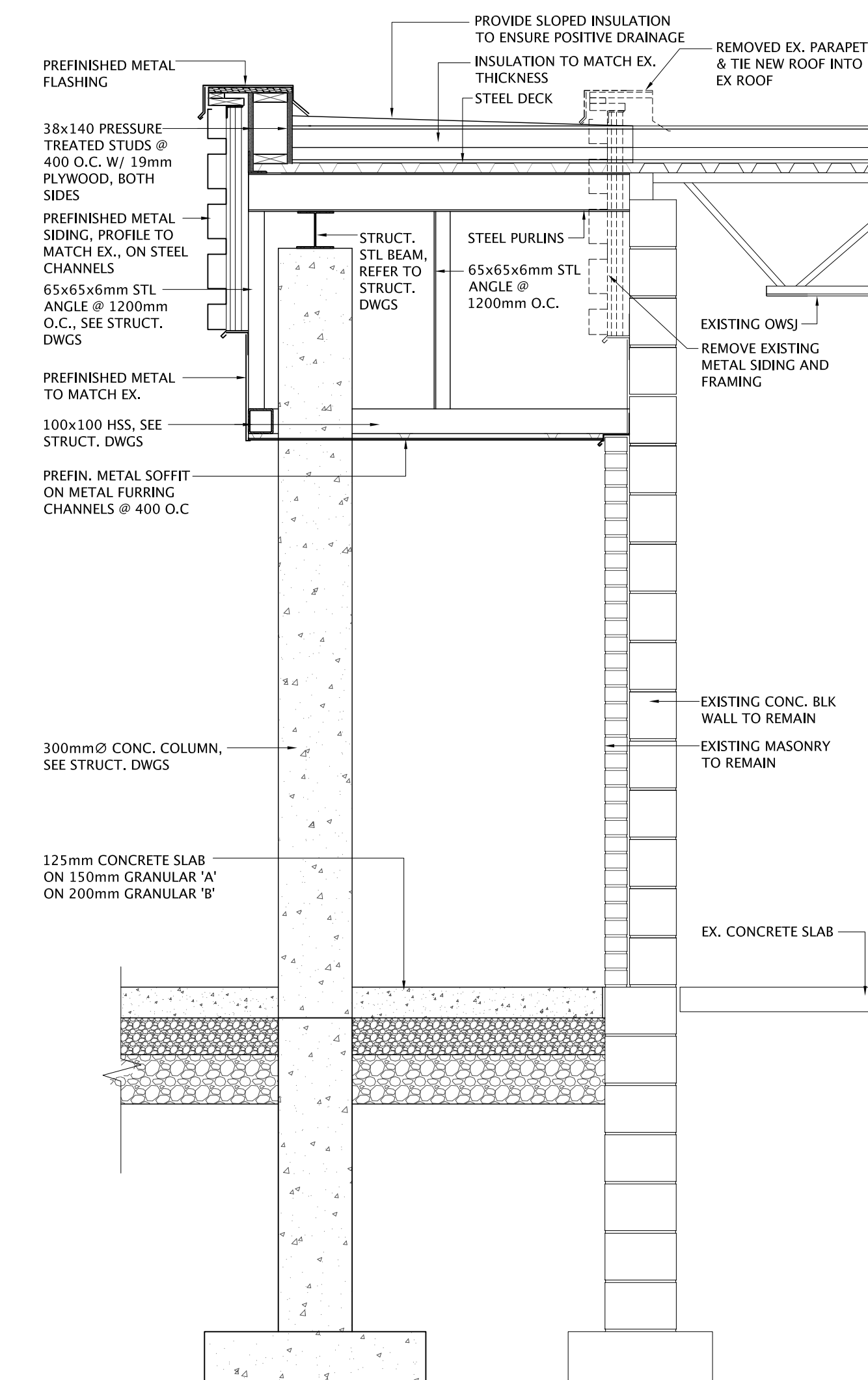
4 PROPOSED SOUTH ELEVATION (PARTIAL)
A-4 SCALE: 1:100



5 ENLARGED WEST ELEVATION
A-4 SCALE: 1:50



6 ENLARGED SOUTH ELEVATION
A-4 SCALE: 1:50



7 SECTION: NEW ENTRANCE CANOPY
A-4 SCALE: 1:20

5	ISSUED FOR TENDER	27/OCT/22
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1	ISSUED FOR REVIEW	29/APR/22
No.	Revisions	Date

Orientation

Seal

PROJECT NORTH

The Contractor shall check and verify all dimensions and report all errors and omission to the Architect for written direction before proceeding with the work.

A A Detail No.
B B Sheet No. where detailed

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akiko@formworkstudio.ca

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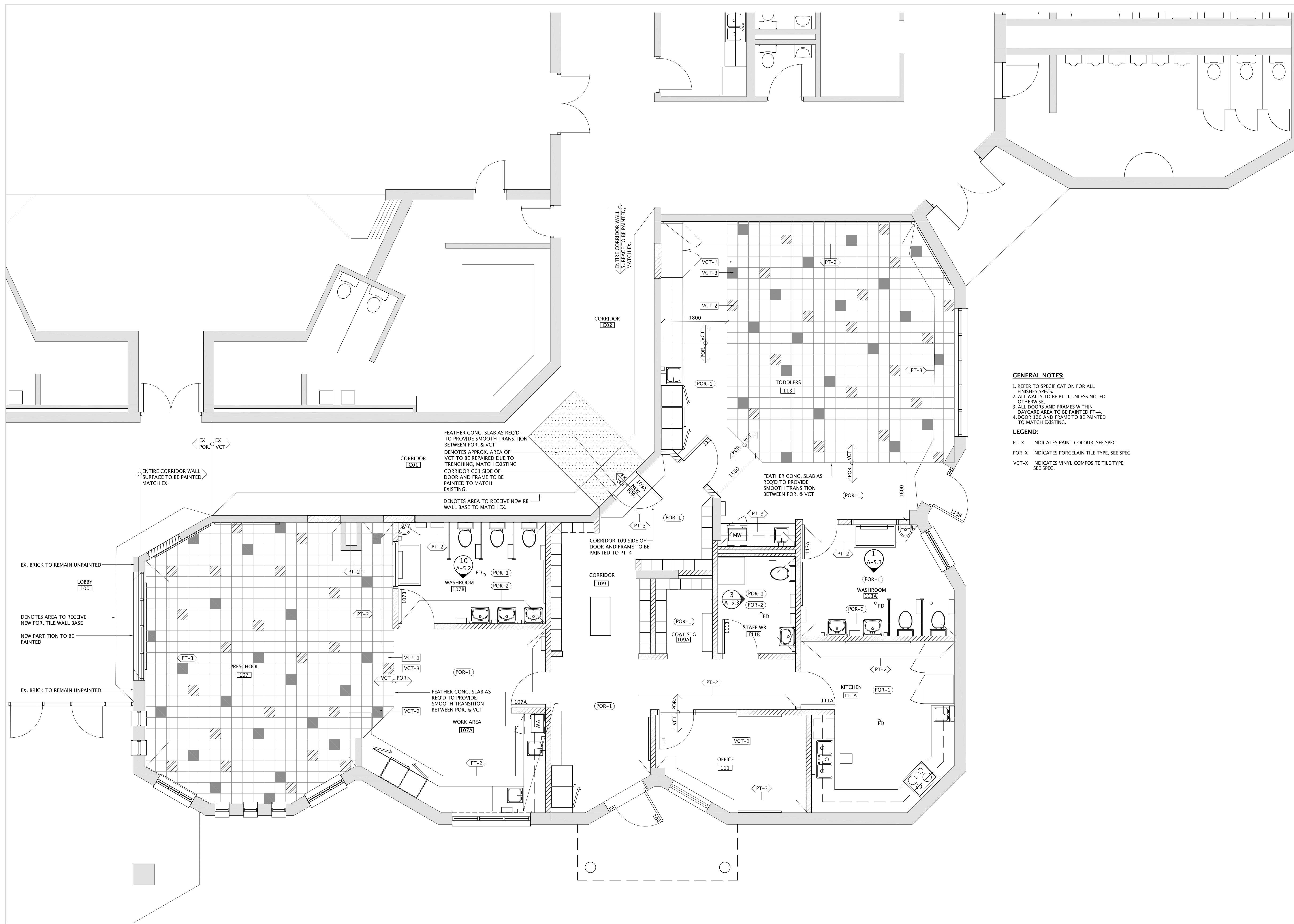
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Project
INTERIOR CHILDCARE RENOVATIONS
TECUMSETH BEETON ELEMENTARY SCHOOL

43 Patterson Street North
Beeton, Ontario
Drawing Title

ELEVATIONS, WALL SECTIONS
AND DETAILS

Scale	AS NOTED	Drawing No. A-4
Drawn by	DL	
Checked by	KC	
Approved by	AC	
Project No.	2022-13062T	



GENERAL NOTES:

- REFER TO SPECIFICATION FOR ALL FINISHES SPEC.
- ALL WALLS TO BE PT-1 UNLESS NOTED OTHERWISE.
- ALL DOORS AND FRAMES WITHIN DAYCARE AREA TO BE PAINTED PT-4.
- DOOR 129 AND FRAME TO BE PAINTED TO MATCH EXISTING.

LEGEND:

PT-X INDICATES PAINT COLOUR, SEE SPEC
 POR-X INDICATES PORCELAIN TILE TYPE, SEE SPEC.
 VCT-X INDICATES VINYL COMPOSITE TILE TYPE, SEE SPEC.

5	ISSUED FOR TENDER	27/OCT/22
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Orientation

PROJECT NORTH

Seal

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A Detail No.
 B Sheet No. where detailed

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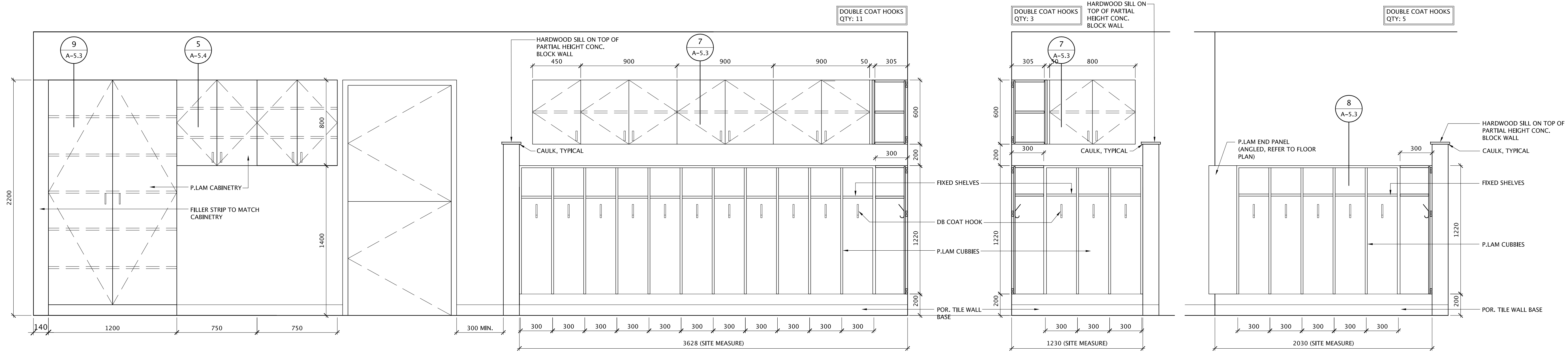
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Project
**INTERIOR CHILDCARE RENOVATIONS
 TECUMSETH BEETON ELEMENTARY SCHOOL**

43 Patterson Street North
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 Drawing Title

FINISHES PLAN

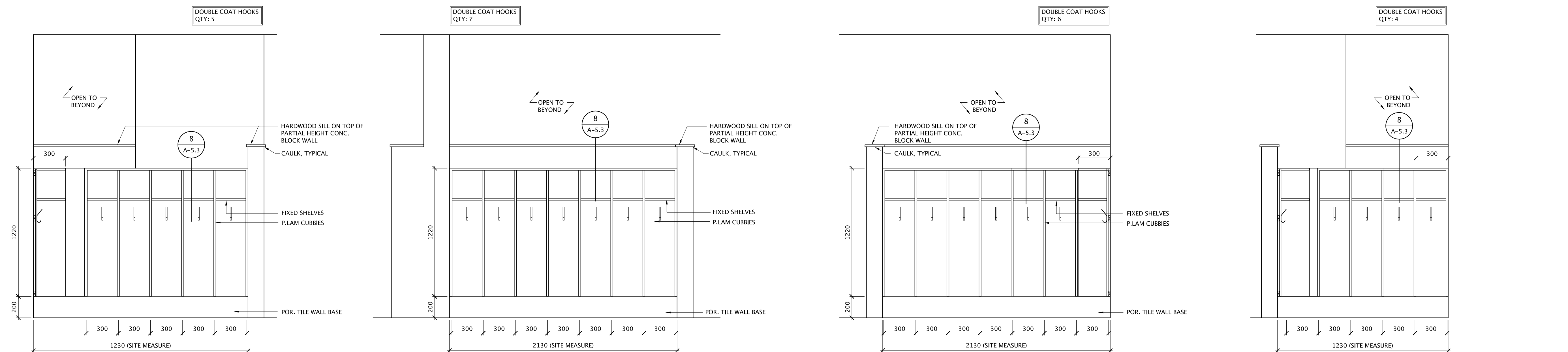
Scale	AS NOTED	Drawing No. A-5.0
Drawn by	DL	
Checked by	KC	
Approved by	AC	
Project No.	2022-13062T	



1 NORTH ELEVATION: CORRIDOR 109
A-5.1 SCALE: 1:20

2 EAST ELEVATION: CORRIDOR 109
A-5.1 SCALE: 1:20

3 SOUTH ELEVATION: CORRIDOR 109
A-5.1 SCALE: 1:20

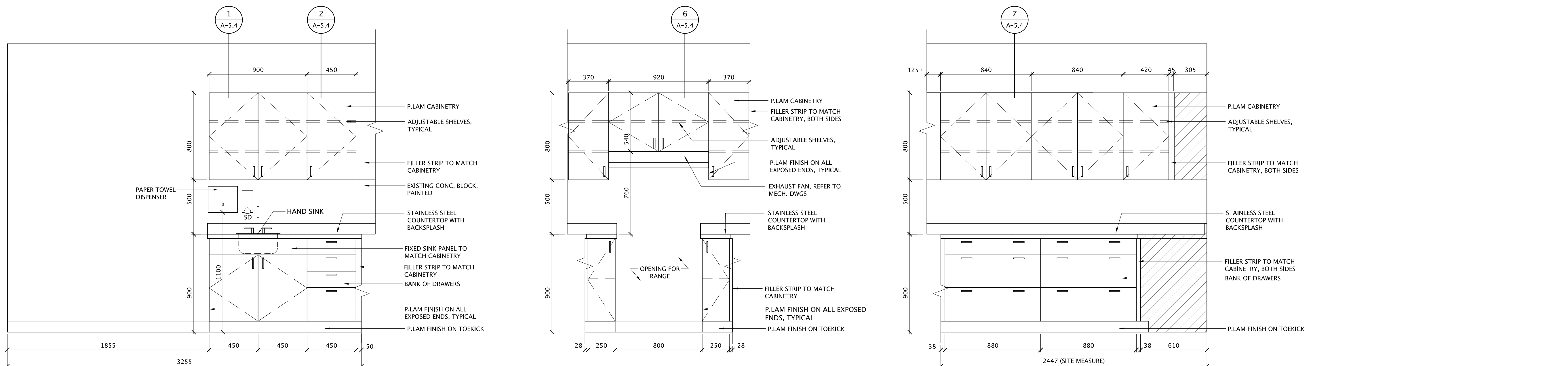


4 WEST ELEVATION: CORRIDOR 109
A-5.1 SCALE: 1:20

5 SOUTH ELEVATION: CORRIDOR 109
A-5.1 SCALE: 1:20

6 NORTH ELEVATION: COAT STG 109A
A-5.1 SCALE: 1:20

7 EAST ELEVATION: COAT STG 109A
A-5.1 SCALE: 1:20



8 SOUTH ELEVATION: KITCHEN 111A
A-5.1 SCALE: 1:20

9 SOUTHWEST ELEVATION: KITCHEN 111A
A-5.1 SCALE: 1:20

10 WEST ELEVATION: KITCHEN 111A
A-5.1 SCALE: 1:20

No.	Revisions	Date
5	ISSUED FOR TENDER	27/OCT/22
4	ISSUED FOR PERMIT	14/OCT/22
3	ISSUED FOR 80% CLIENT REVIEW	01/SEP/22
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1	ISSUED FOR REVIEW	29/APR/22

Orientation

Seal

PROJECT NORTH

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A A Detail No.
B Sheet No. where detailed

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aliko@formworkstudio.ca

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Midhurst, Ontario
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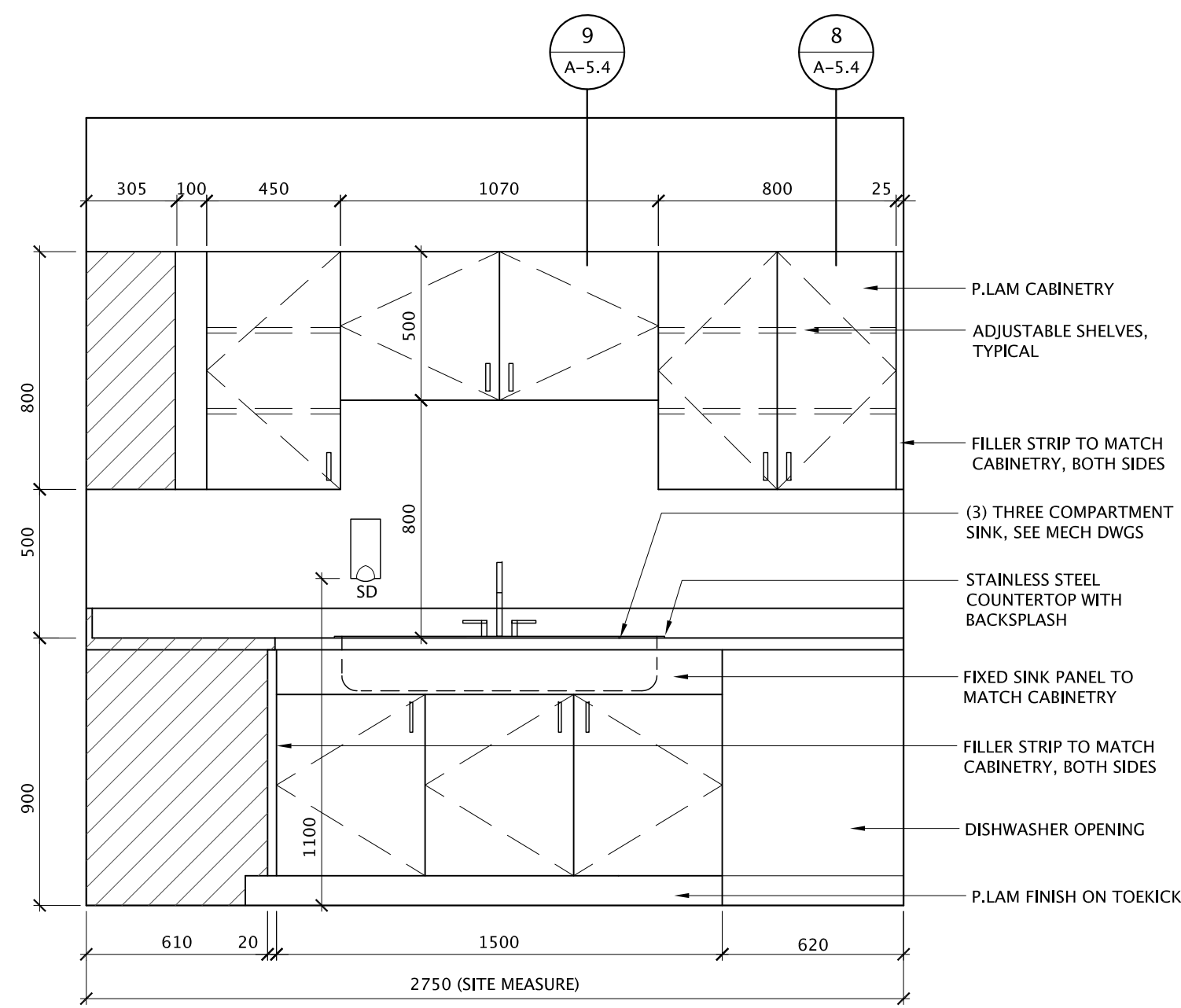
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Project
**INTERIOR CHILDCARE RENOVATIONS
TECUMSETH BEETON ELEMENTARY SCHOOL**

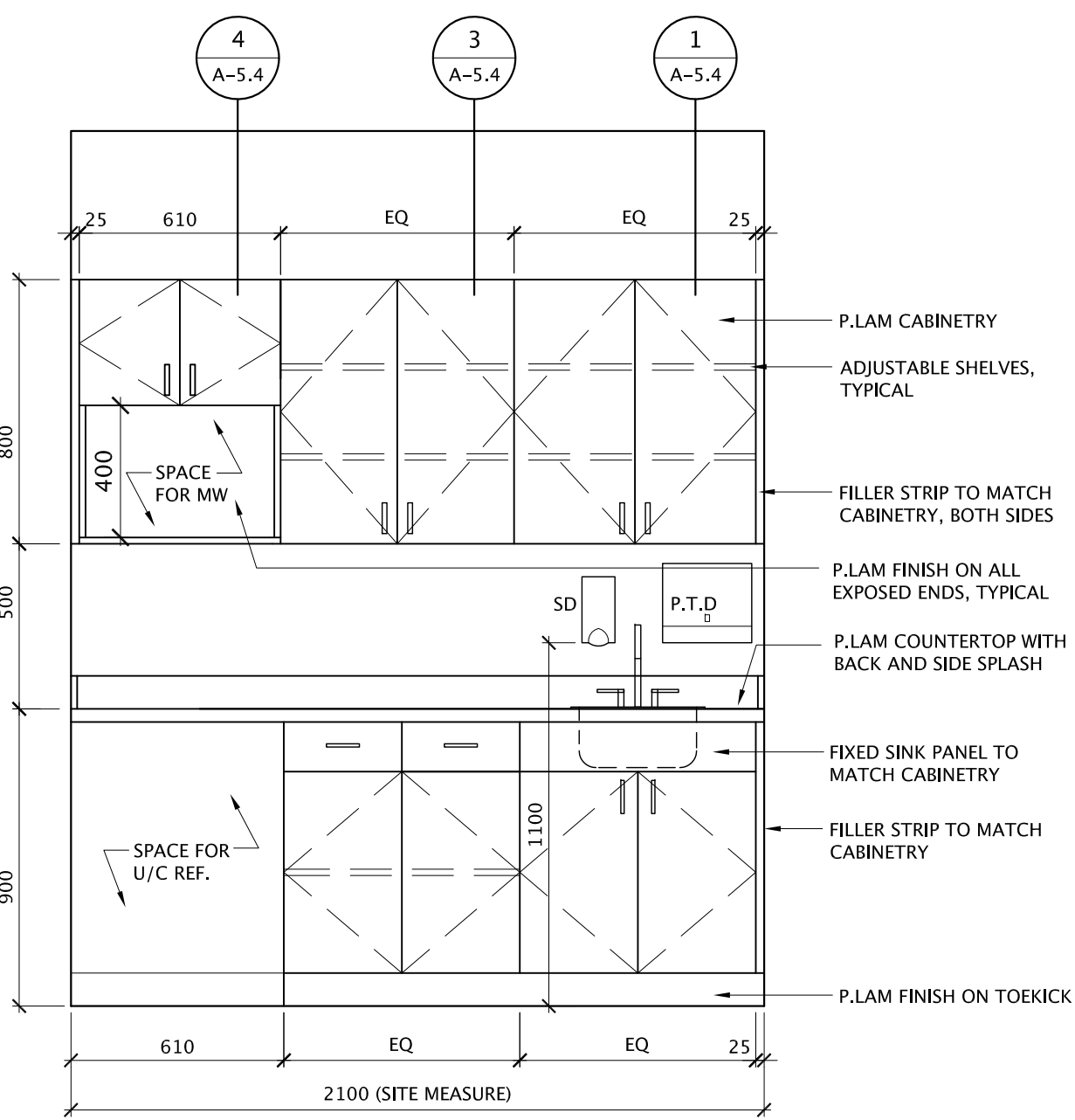
43 Patterson Street North
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Drawing Title

MILLWORK ELEVATIONS

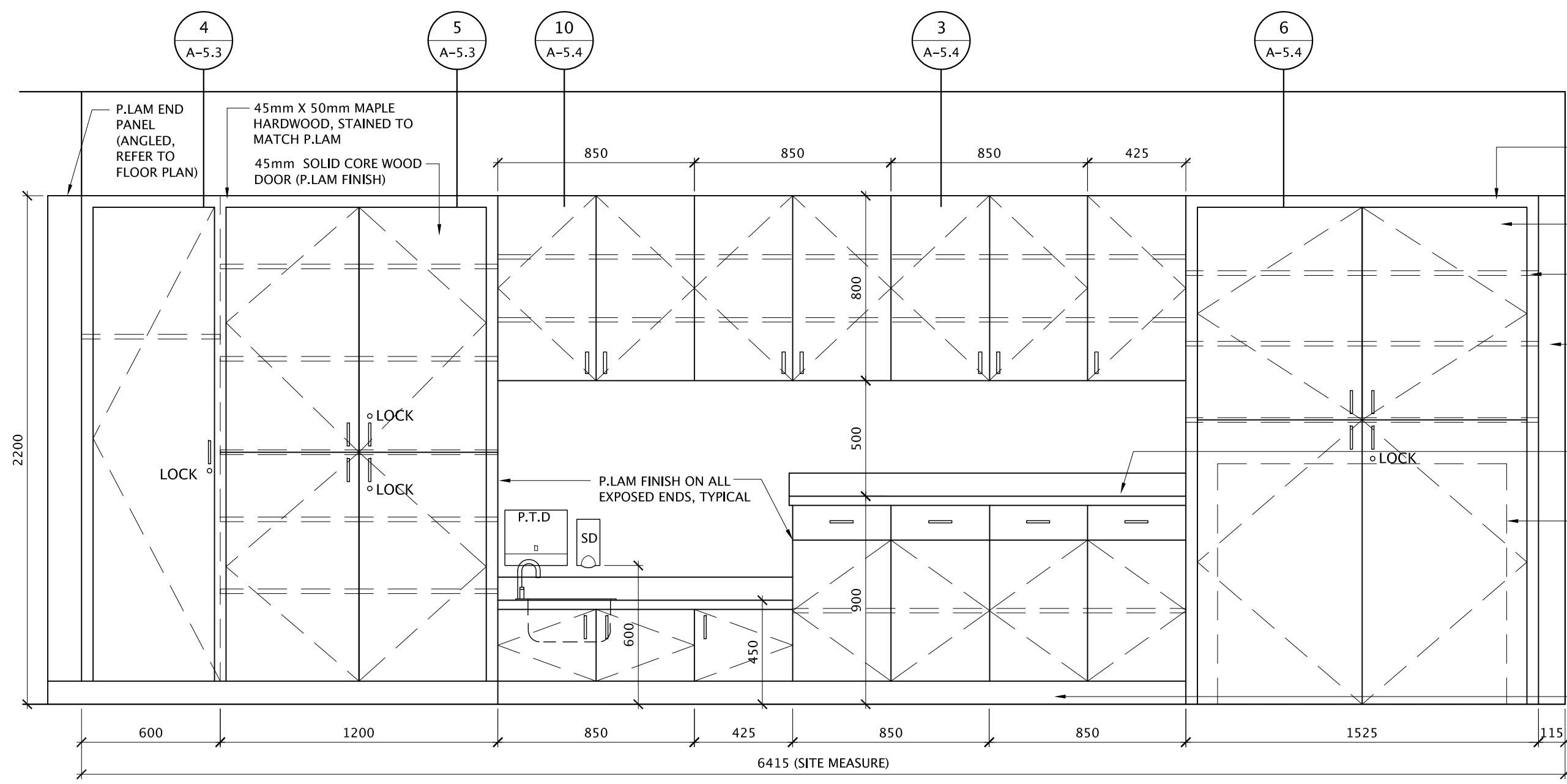
Scale	AS NOTED	Drawing No.
Drawn by	DL	A-5.1
Checked by	KC	
Approved by	AC	
Project No.	2022-13062T	



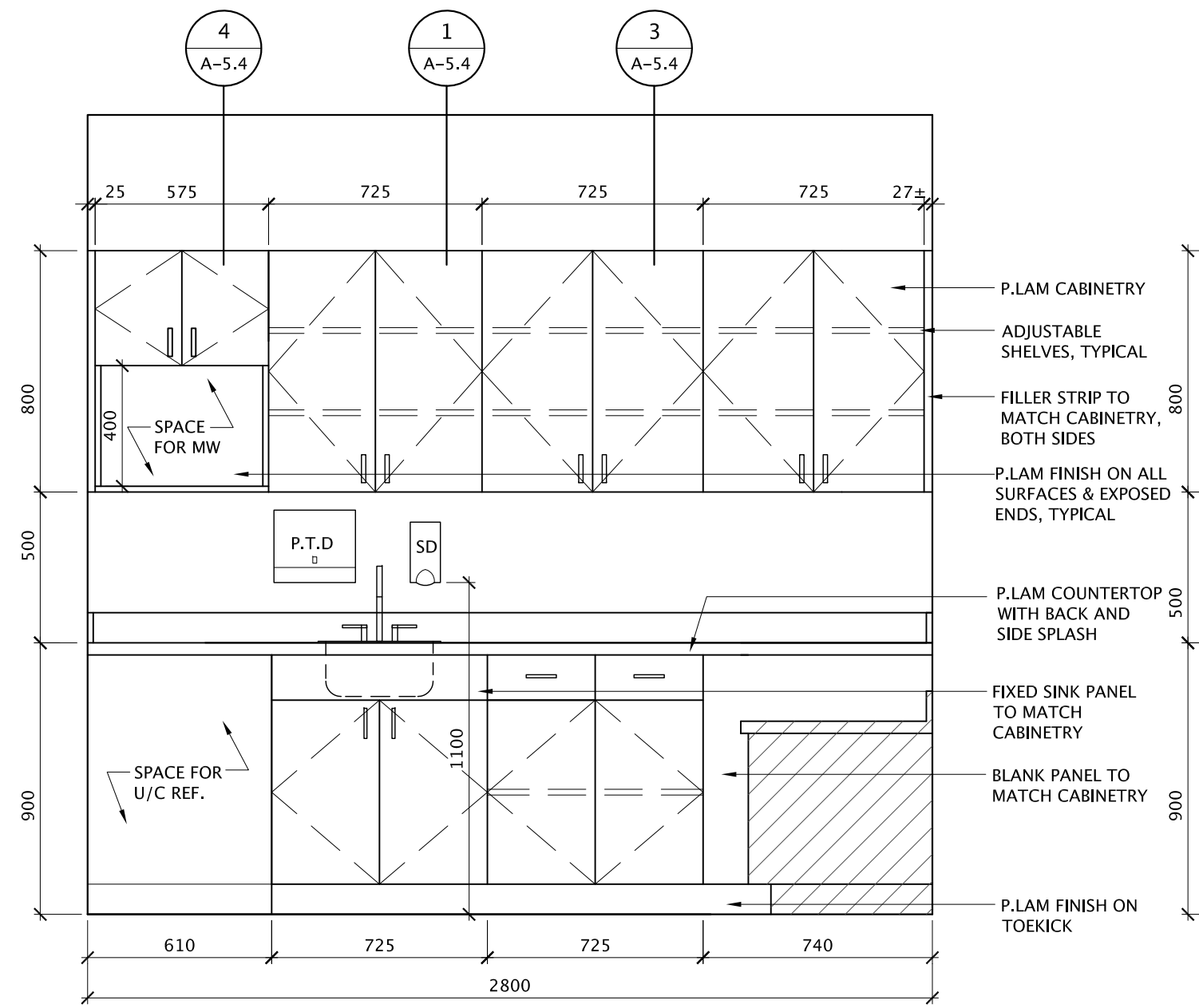
1 WEST ELEVATION: KITCHEN 111A
A-5.2 SCALE: 1:20



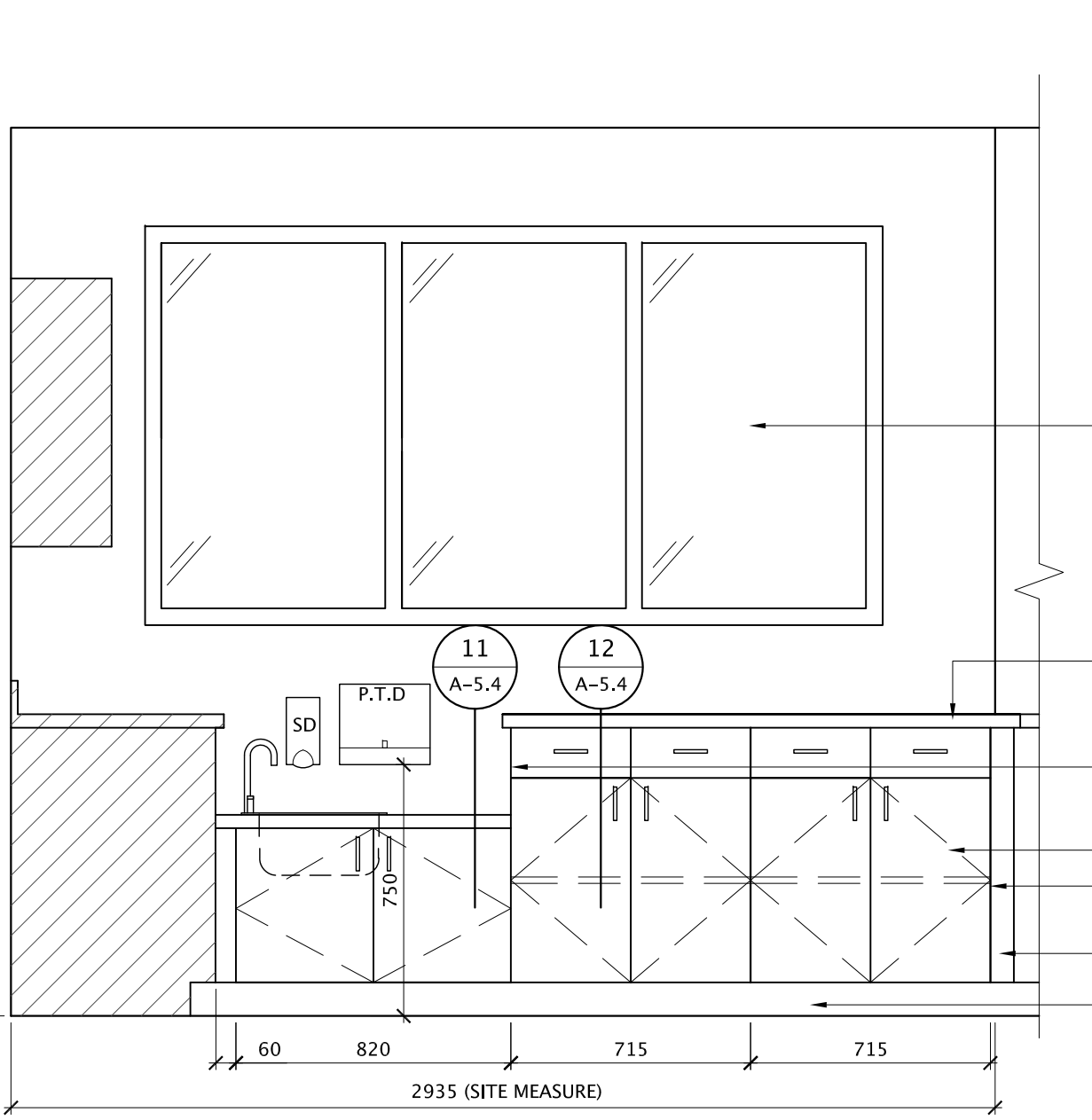
2 WEST ELEVATION: TODDLERS 113
A-5.2 SCALE: 1:20



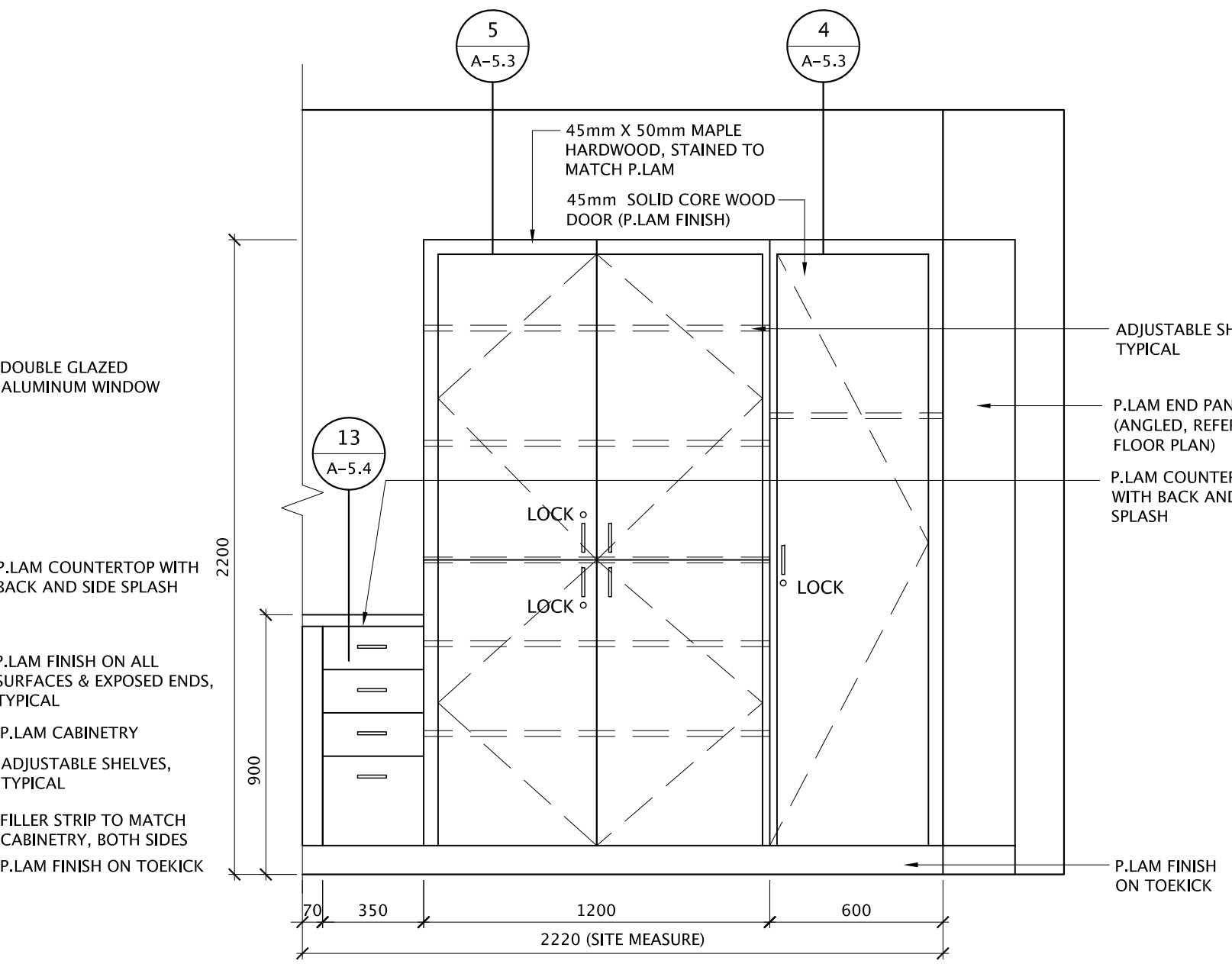
3 NORTH ELEVATION: TODDLERS 113
A-5.2 SCALE: 1:20



4 SOUTH ELEVATION: WORK AREA 107A
A-5.2 SCALE: 1:20

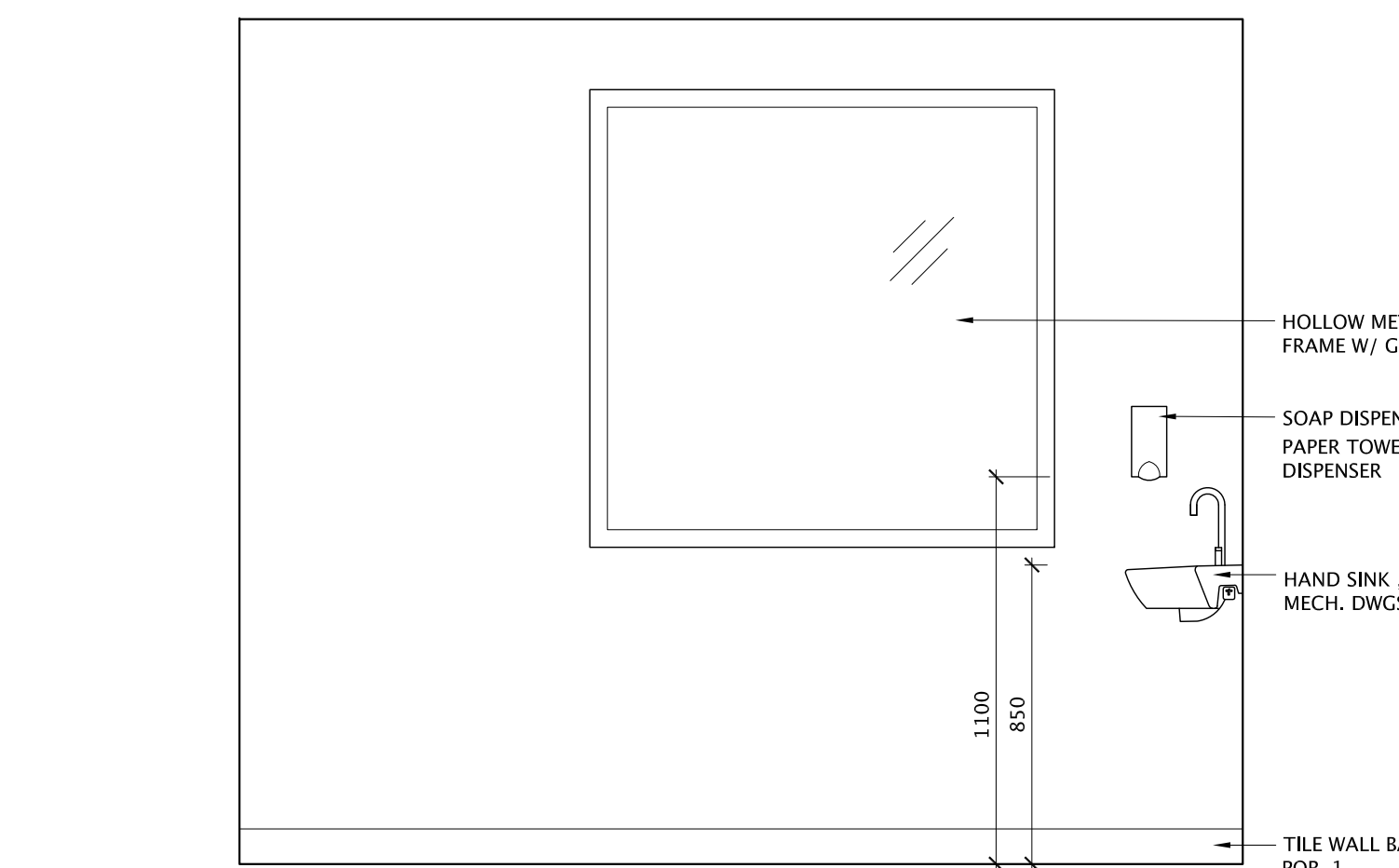


5 WEST ELEVATION: WORK AREA 107A
A-5.2 SCALE: 1:20

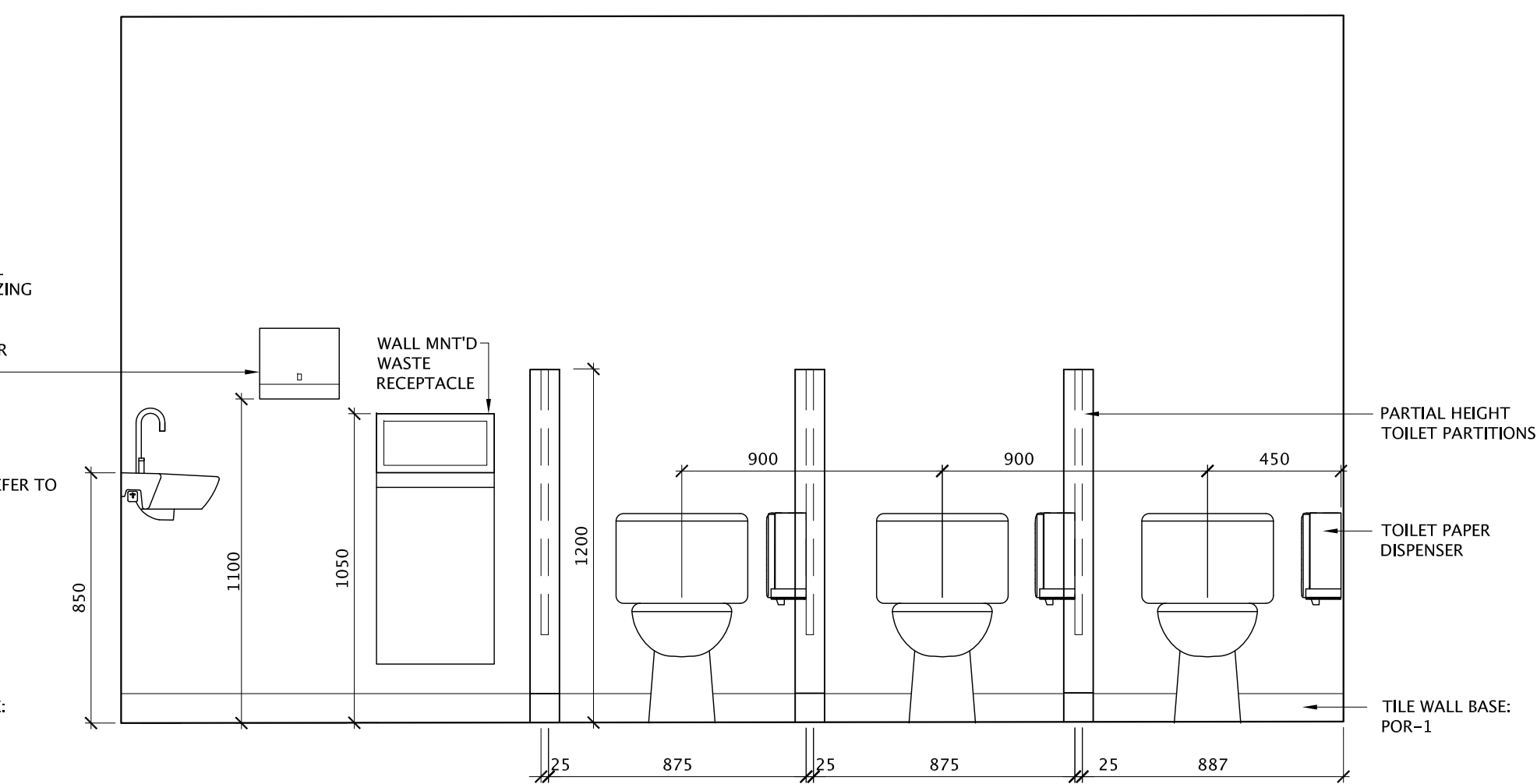


6 NORTHWEST ELEVATION: WORK AREA 107A
A-5.2 SCALE: 1:20

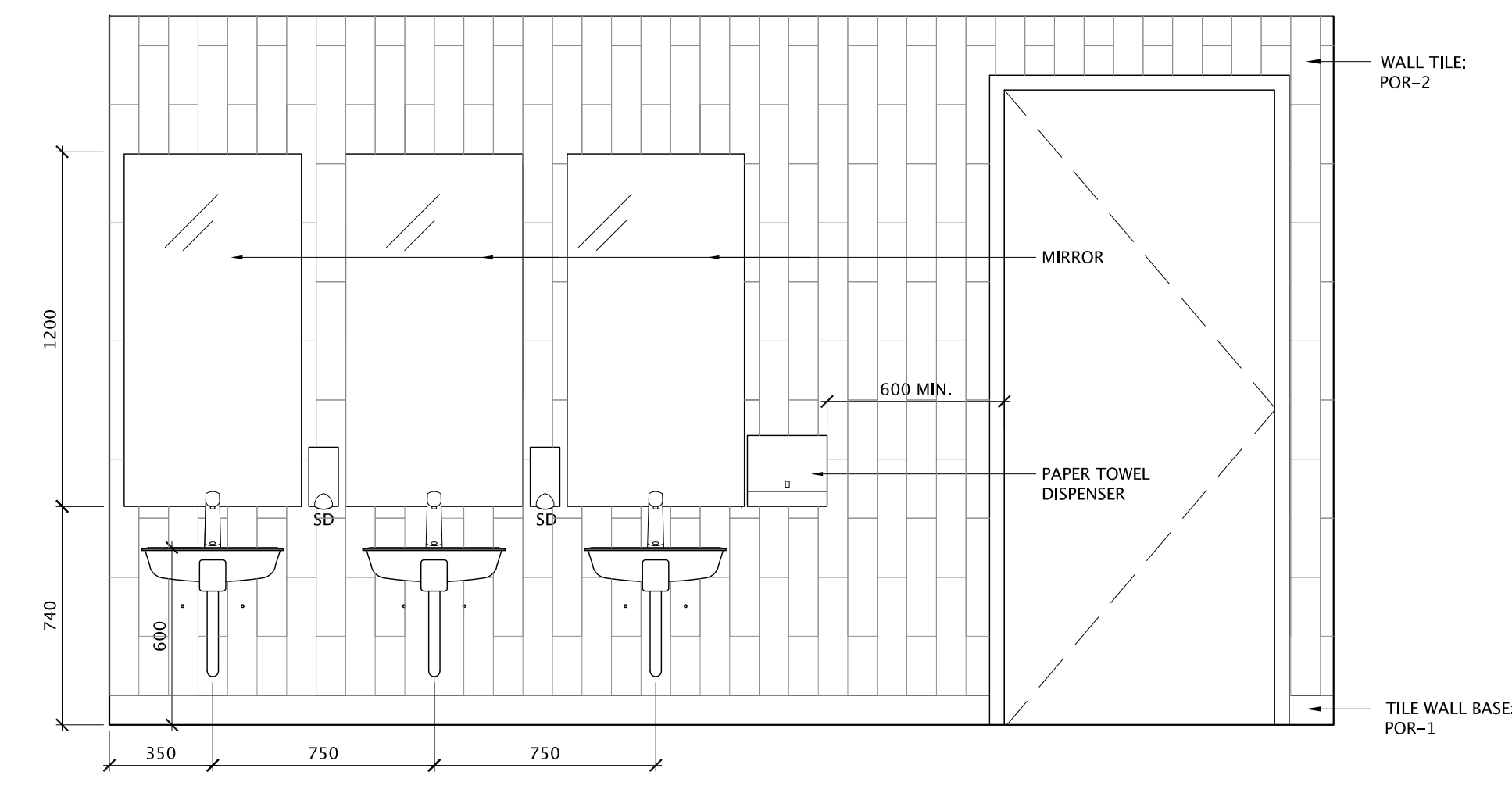
7 RESERVED
A-5.2



8 NORTH ELEVATION: WASHROOM 107B
A-5.2 SCALE: 1:20



9 EAST ELEVATION: WASHROOM 107B
A-5.2 SCALE: 1:20



10 SOUTH ELEVATION: WASHROOM 107B
A-5.2 SCALE: 1:20

No.	Revisions	Date
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Orientation

Seal

PROJECT NORTH

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A Detail No.
B Sheet No. where detailed

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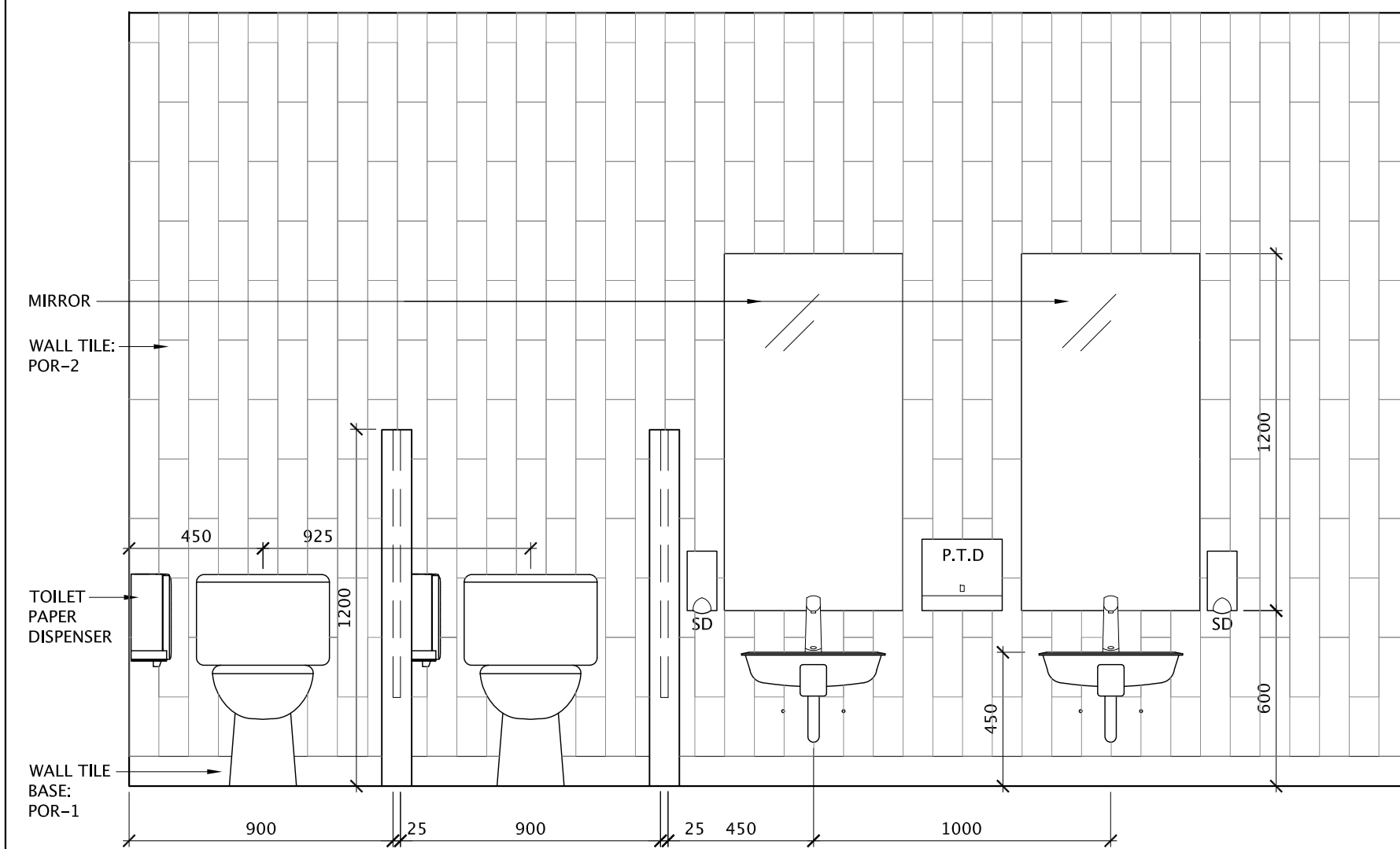
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Project
INTERIOR CHILDCARE RENOVATIONS
TECUMSETH BEETON ELEMENTARY SCHOOL

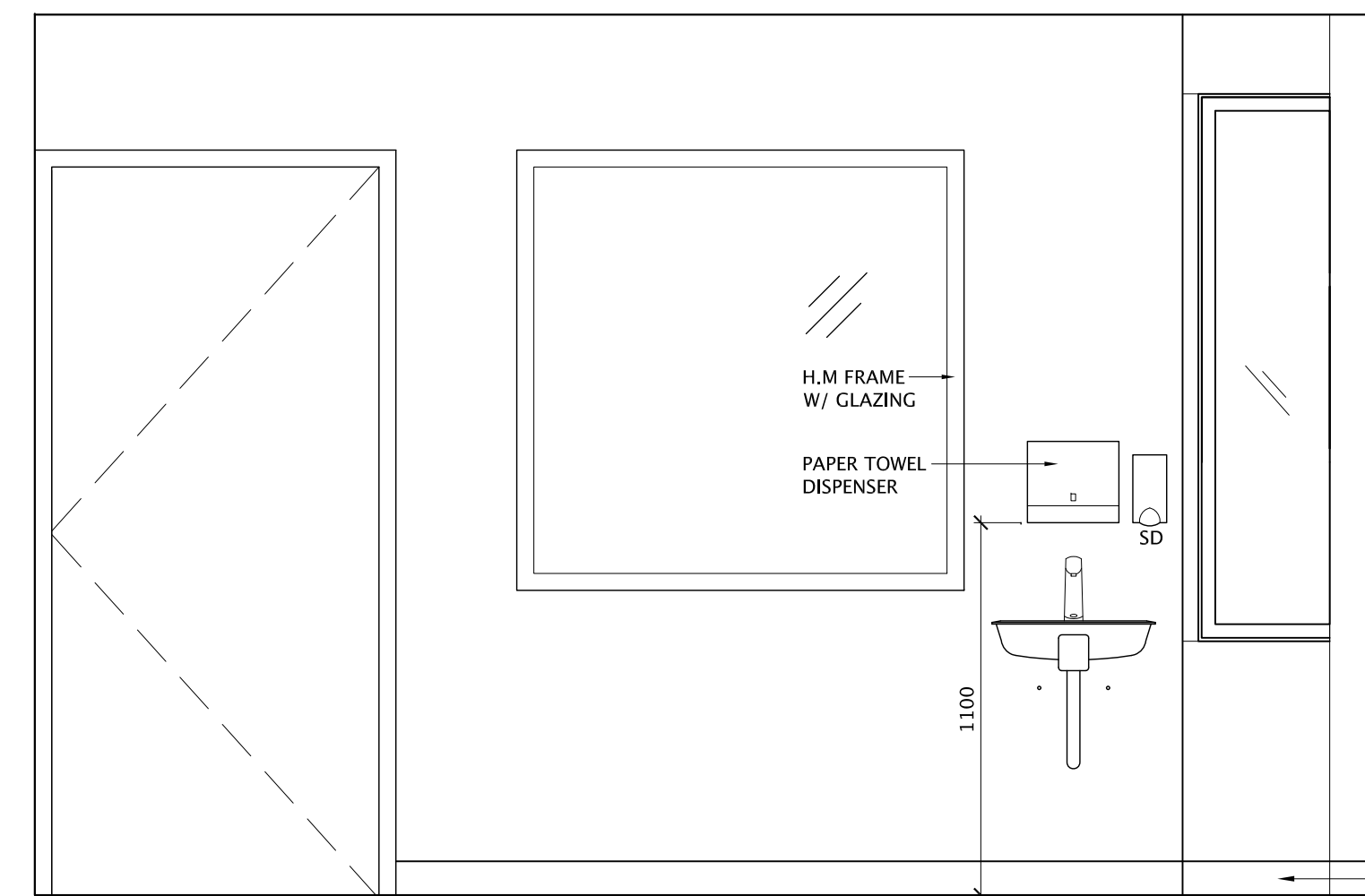
43 Patterson Street North
Beeton, Ontario
Drawing Title

MILLWORK ELEVATIONS AND
INTERIOR ELEVATIONS

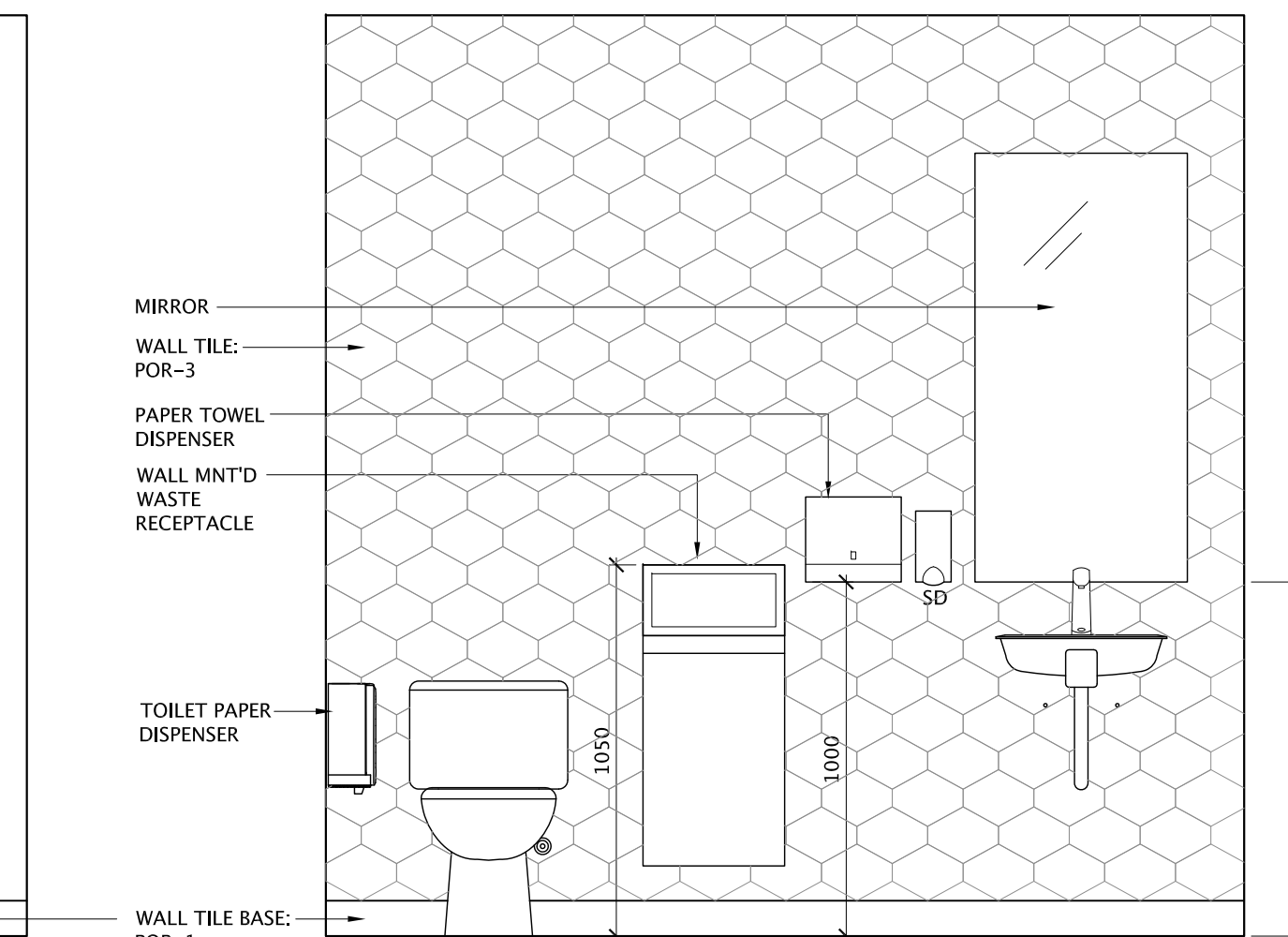
Scale	AS NOTED	Drawing No.
Drawn by	DL	A-5.2
Checked by	KC	
Approved by	AC	
Project No.	2022-13062T	



1 WEST ELEVATION: WASHROOM 113A
A-5.3 SCALE: 1:20



2 EAST ELEVATION: WASHROOM 113A
A-5.3 SCALE: 1:20



3 SOUTH ELEVATION: WASHROOM 111B
A-5.3 SCALE: 1:20

5	ISSUED FOR TENDER	27/OCT/22
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Orientation

Seal

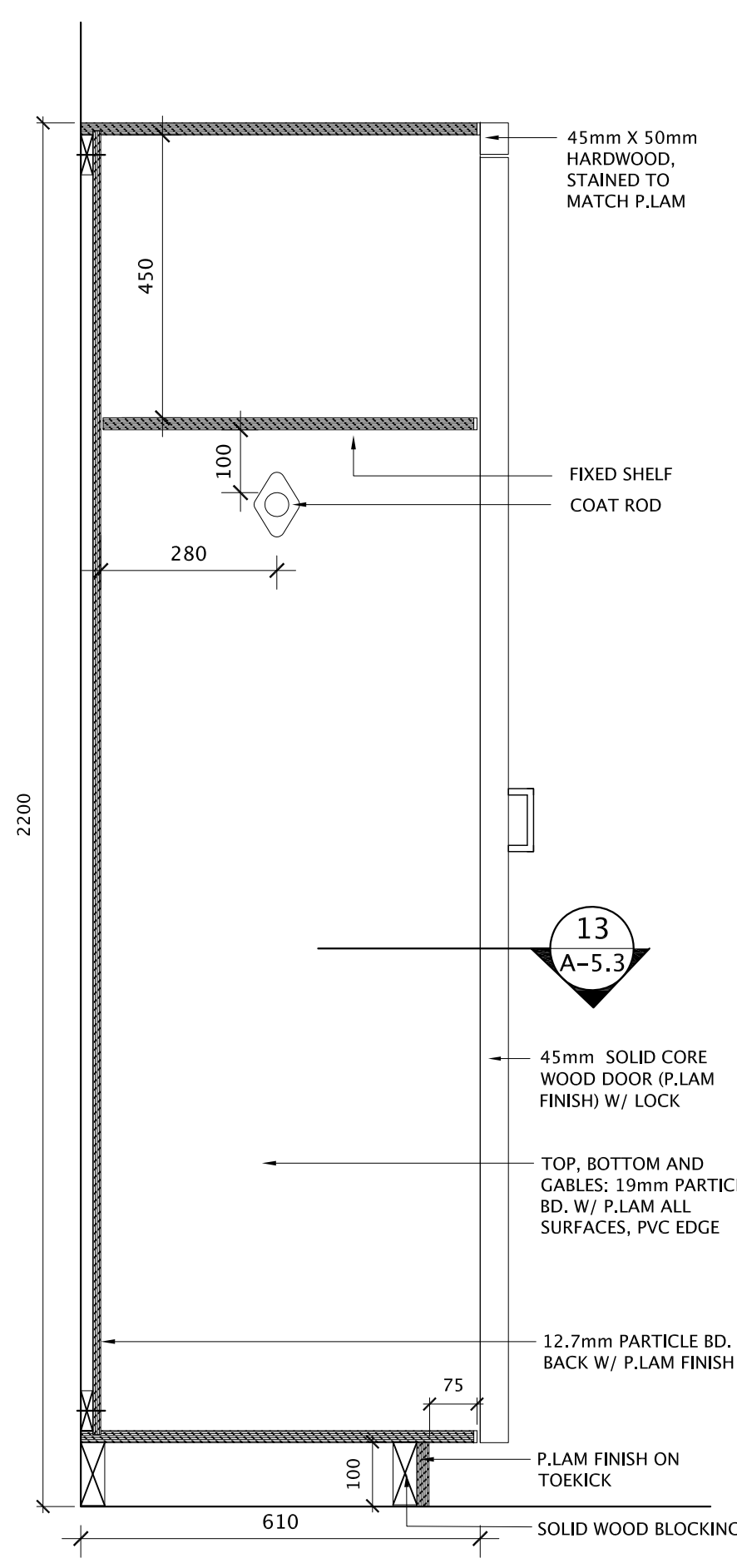
PROJECT NORTH

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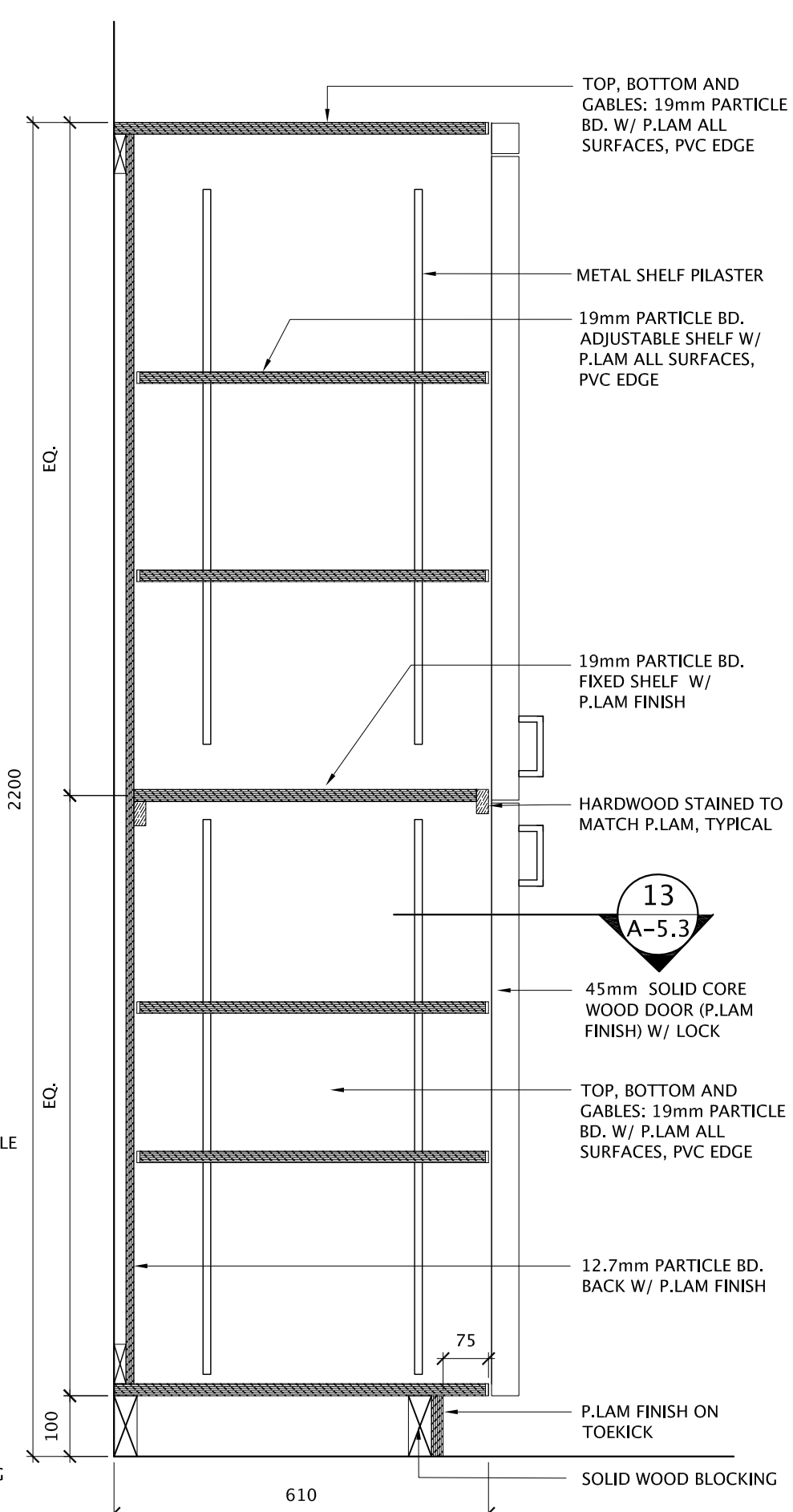
A Detail No.
B Sheet No. where detailed

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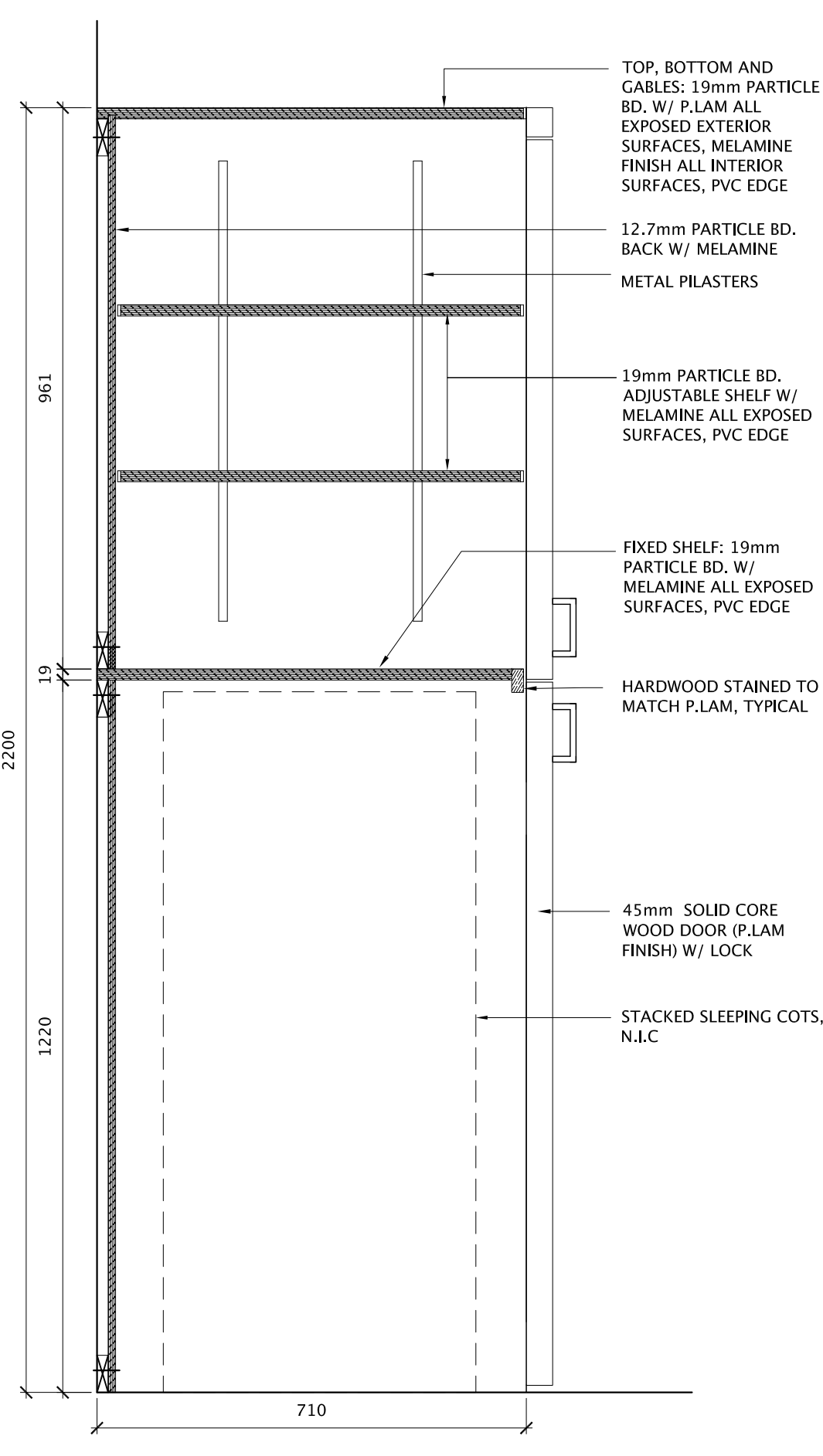
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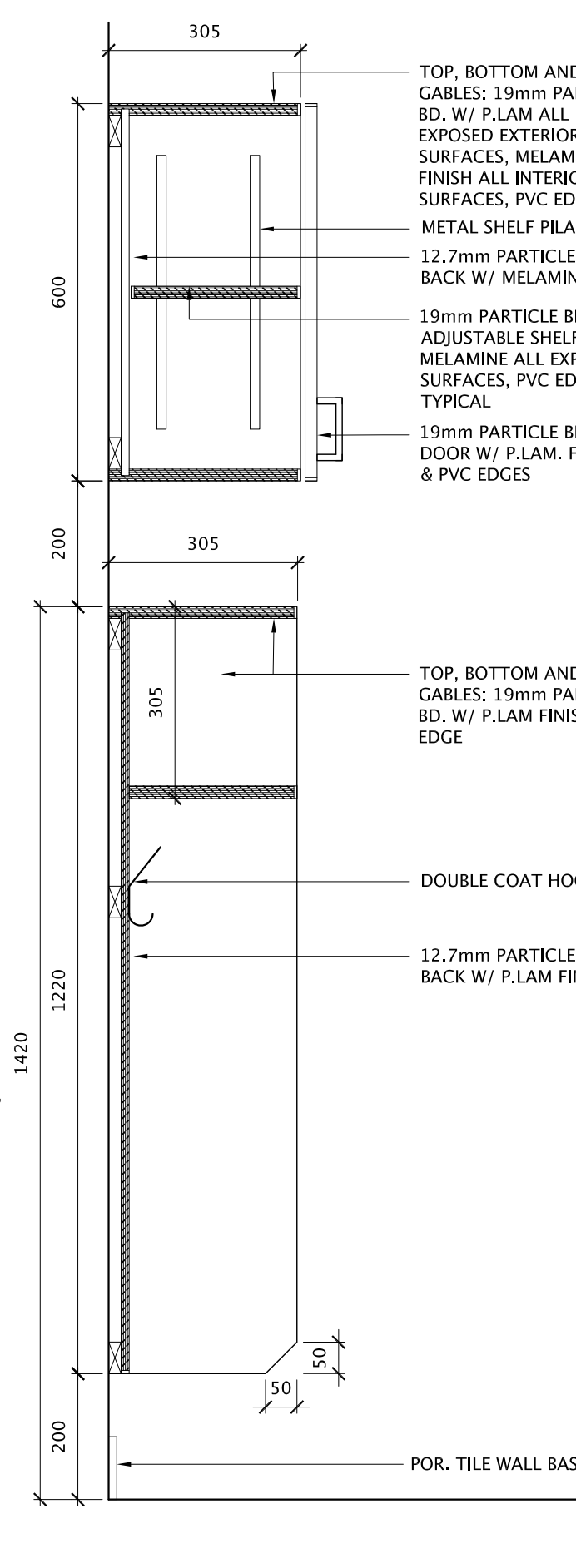
4 MILLWORK DETAIL
A-5.3 SCALE: 1:20



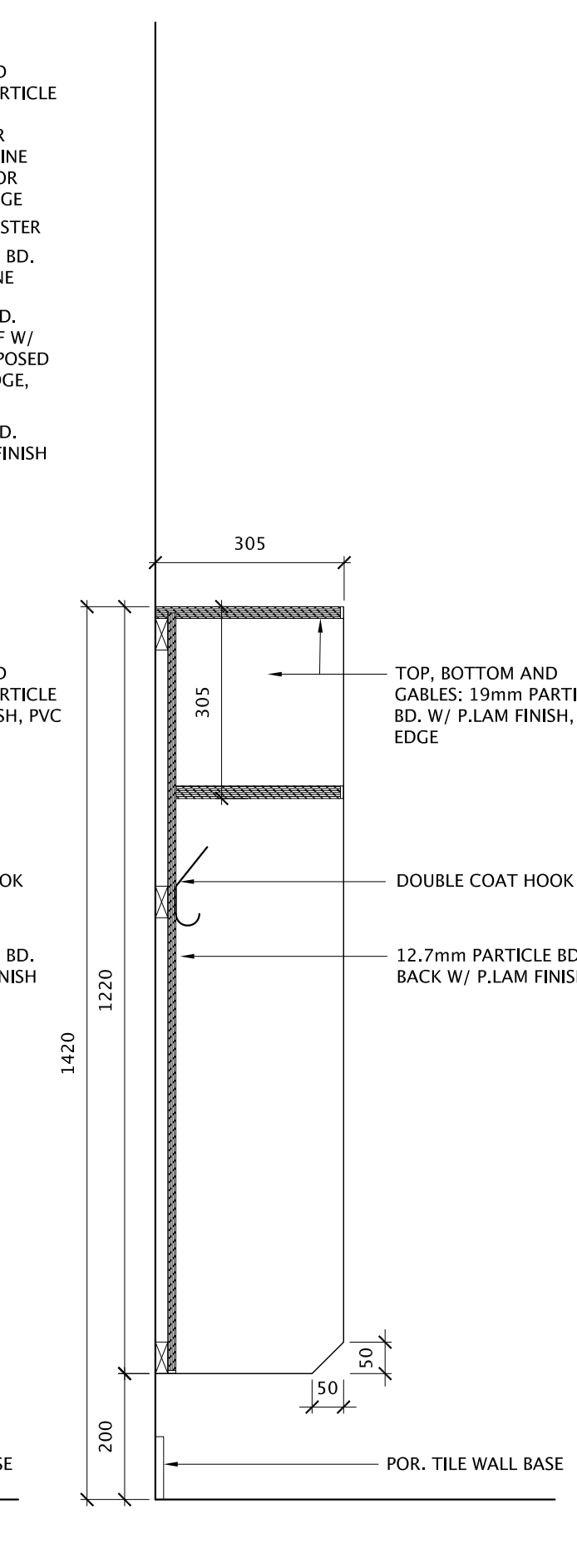
5 MILLWORK DETAIL
A-5.3 SCALE: 1:20



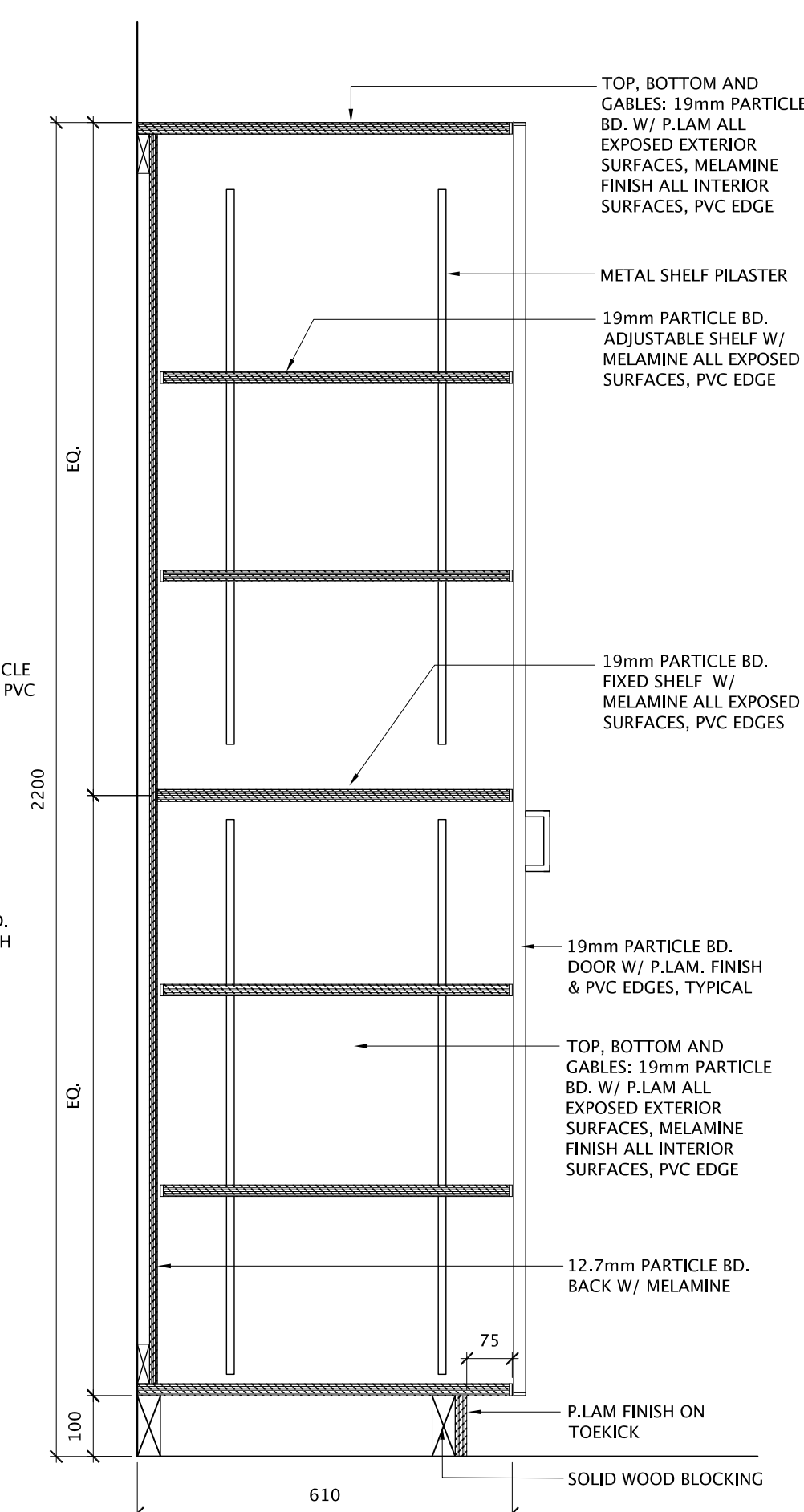
6 MILLWORK DETAIL
A-5.3 SCALE: 1:20



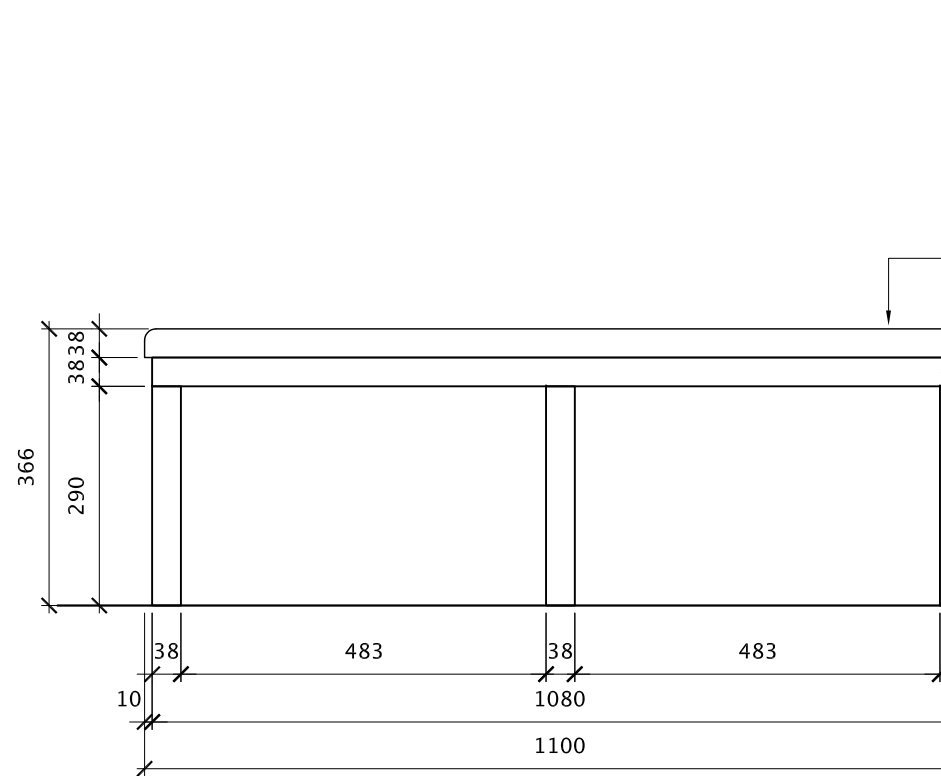
7 MILLWORK DETAIL
A-5.3 SCALE: 1:20



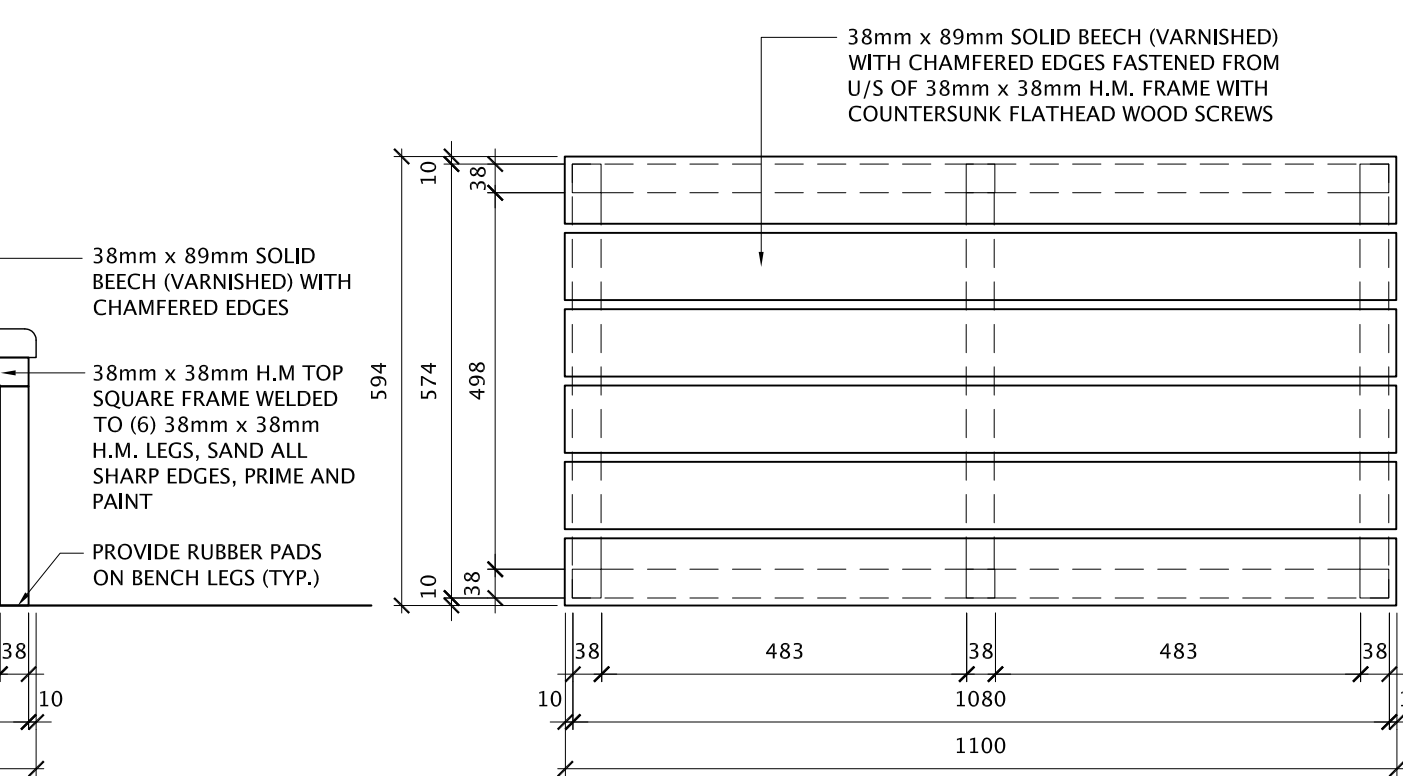
8 MILLWORK DETAIL
A-5.3 SCALE: 1:20



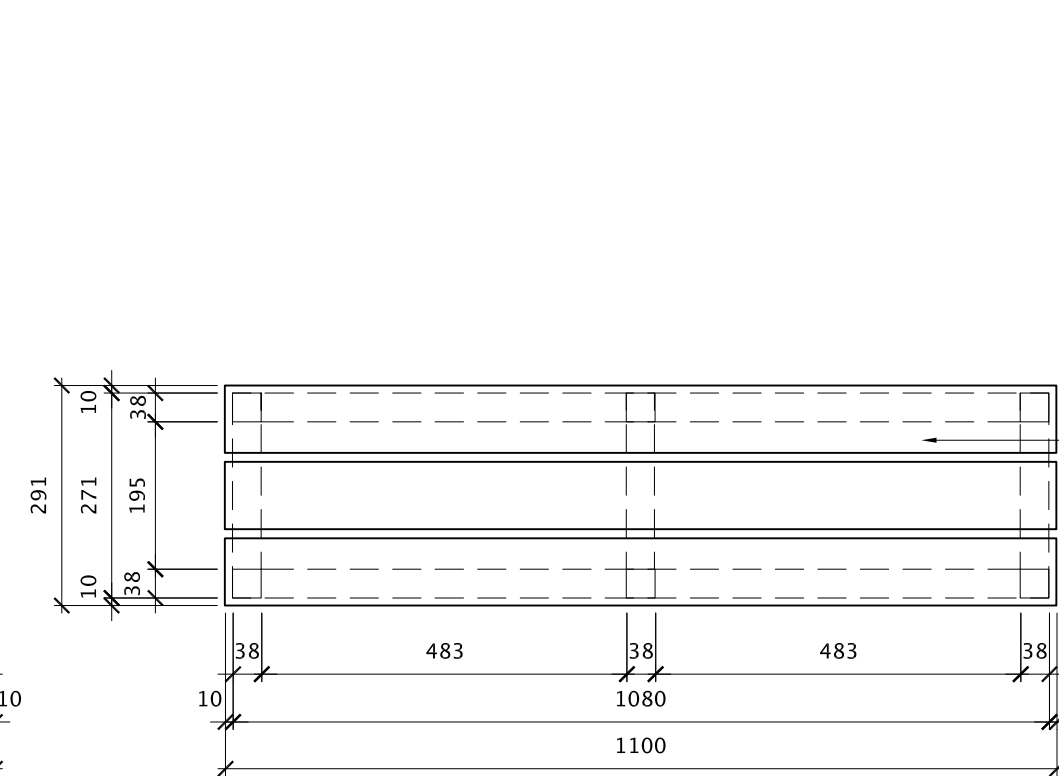
9 MILLWORK DETAIL
A-5.3 SCALE: 1:20



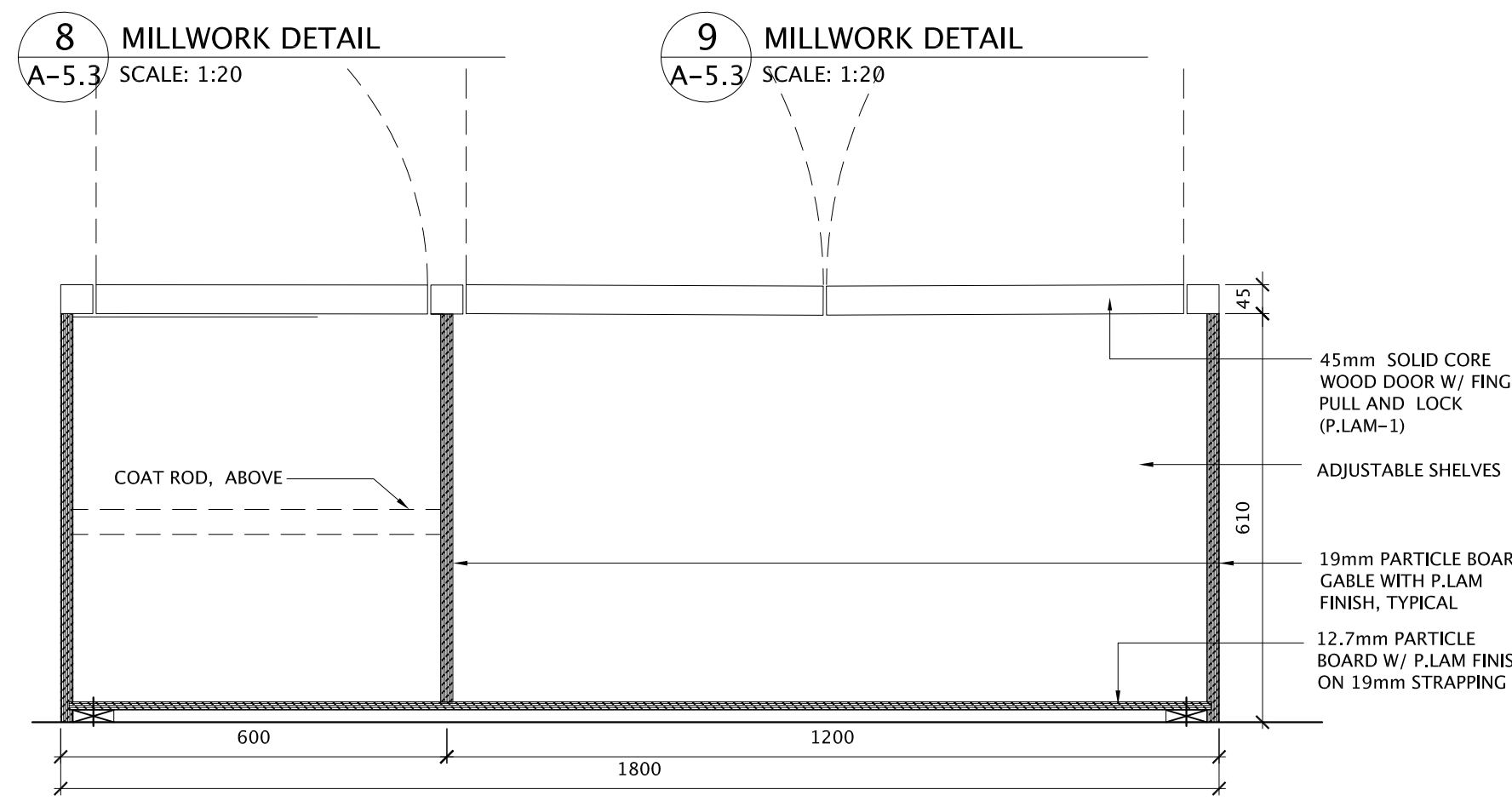
10 BENCH DETAIL
A-5.3 SCALE: 1:20



11 BENCH DETAIL
A-5.3 SCALE: 1:20



12 BENCH DETAIL
A-5.3 SCALE: 1:20



13 MILLWORK DETAIL: TEACHER'S CLOSET
A-5.3 SCALE: 1:20

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Project
**INTERIOR CHILDCARE RENOVATIONS
TECUMSETH BEETON ELEMENTARY SCHOOL**

43 Patterson Street North
Beeton, Ontario

Drawing Title

**INTERIOR ELEVATIONS &
MILLWORK DETAILS**

Scale AS NOTED

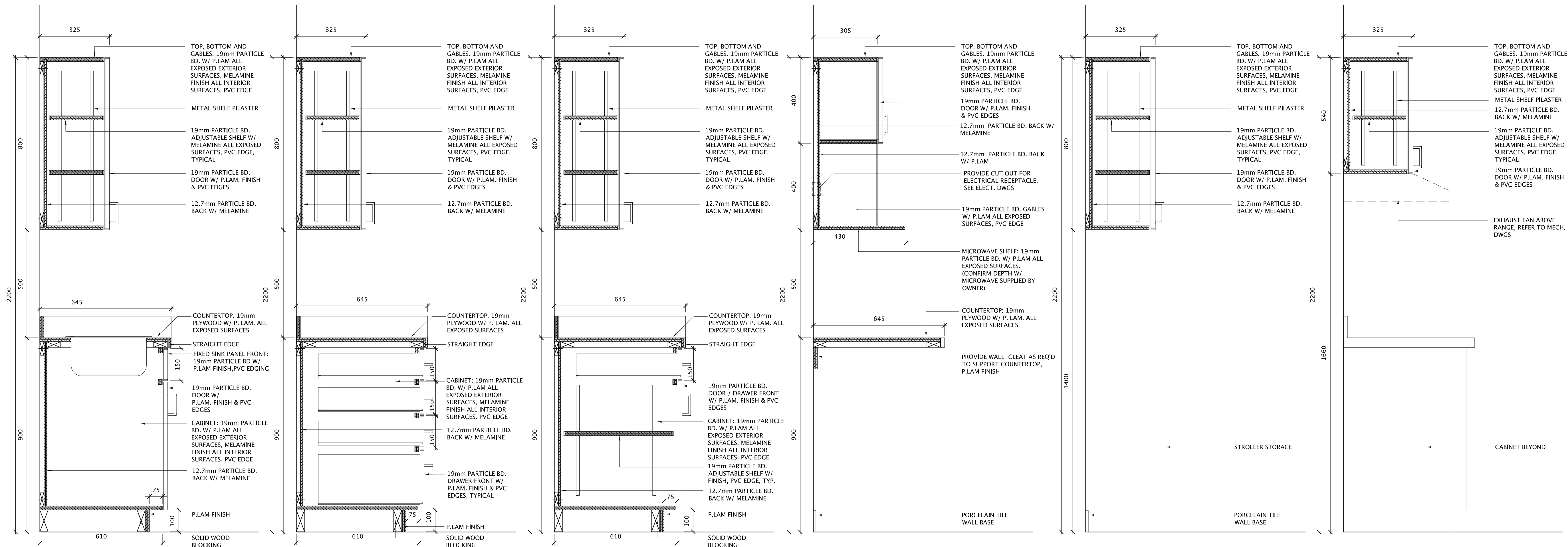
Drawing No. **A-5.3**

Drawn by DL

Checked by KC

Approved by AC

Project No. 2022-13062T



1 MILLWORK DETAIL A-5.4 SCALE: 1:10

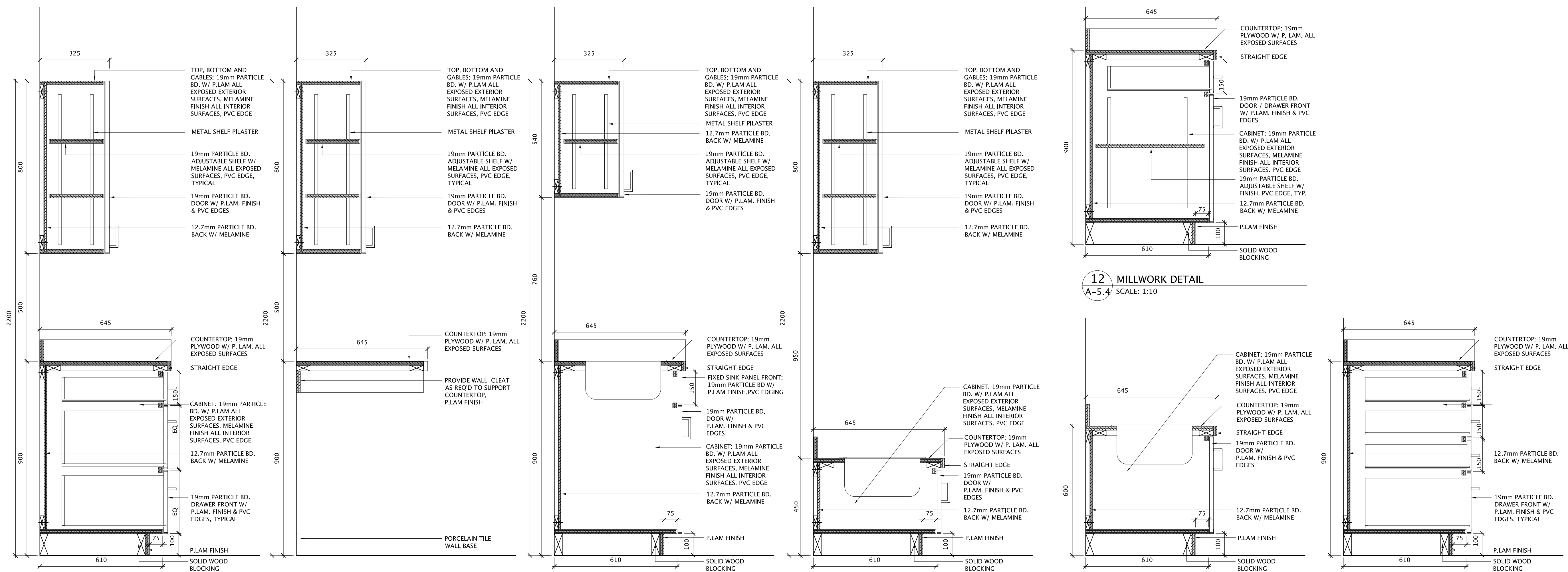
2 MILLWORK DETAIL A-5.4 SCALE: 1:10

3 MILLWORK DETAIL A-5.4 SCALE: 1:10

4 MILLWORK DETAIL A-5.4 SCALE: 1:10

5 MILLWORK DETAIL A-5.4 SCALE: 1:10

6 MILLWORK DETAIL A-5.4 SCALE: 1:10



7 MILLWORK DETAIL A-5.4 SCALE: 1:10

8 MILLWORK DETAIL A-5.4 SCALE: 1:10

9 MILLWORK DETAIL A-5.4 SCALE: 1:10

10 MILLWORK DETAIL A-5.4 SCALE: 1:10

11 MILLWORK DETAIL A-5.4 SCALE: 1:10

12 MILLWORK DETAIL A-5.4 SCALE: 1:10

13 MILLWORK DETAIL A-5.4 SCALE: 1:10

5	ISSUED FOR TENDER	27/OCT/22
4	ISSUED FOR PERMIT	14/OCT/22
3	ISSUED FOR 80% CLIENT REVIEW	01/SEP/22
2	ISSUED FOR REVIEW	15/JUN/22
1	ISSUED FOR REVIEW	29/APR/22
No.	Revisions	Date

Orientation

Seal

PROJECT NORTH

The Contractor shall check and verify all dimensions and report all errors and omission to the Architect for written direction before proceeding with the work.

A A Detail No.
B B Sheet No. where detailed

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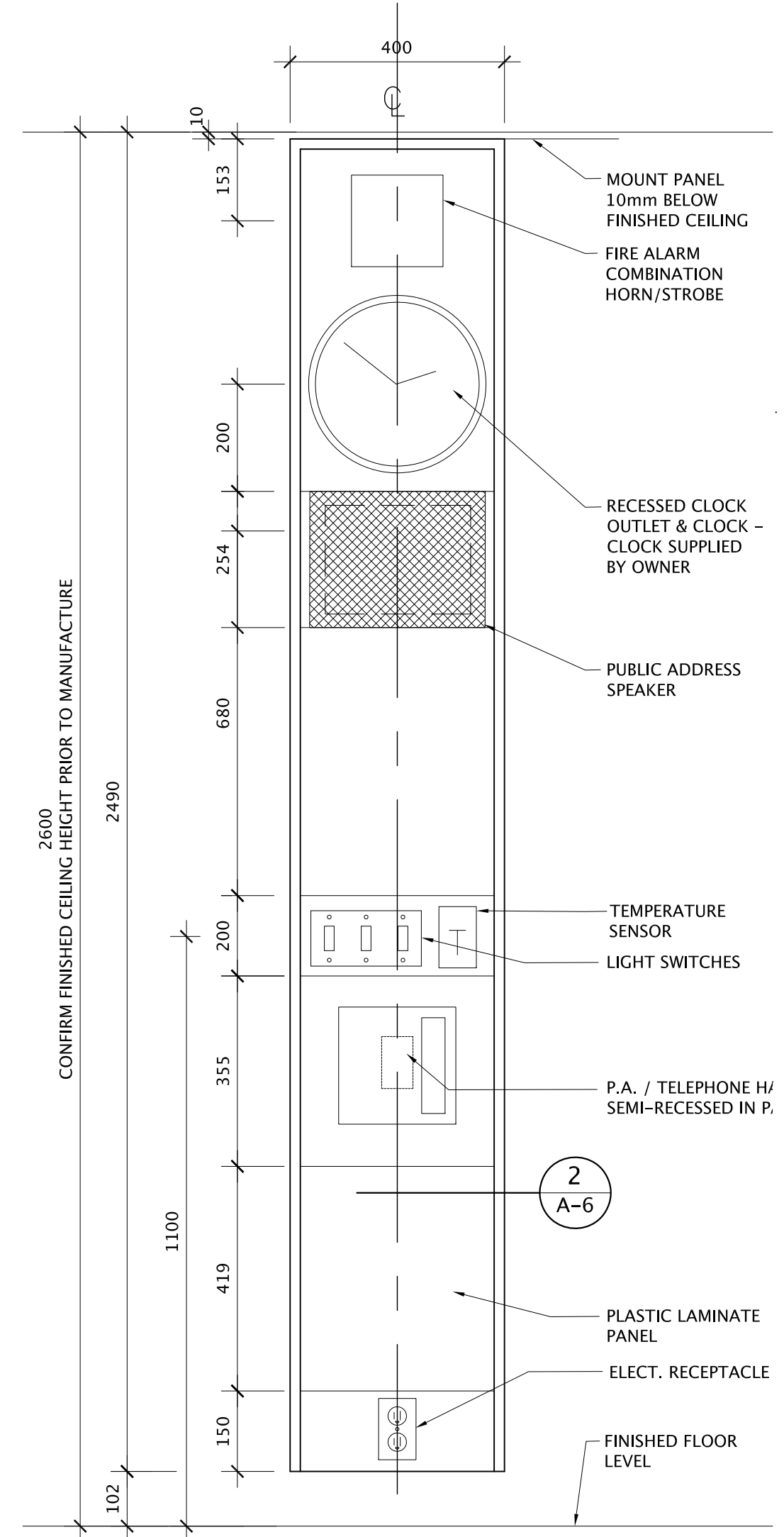
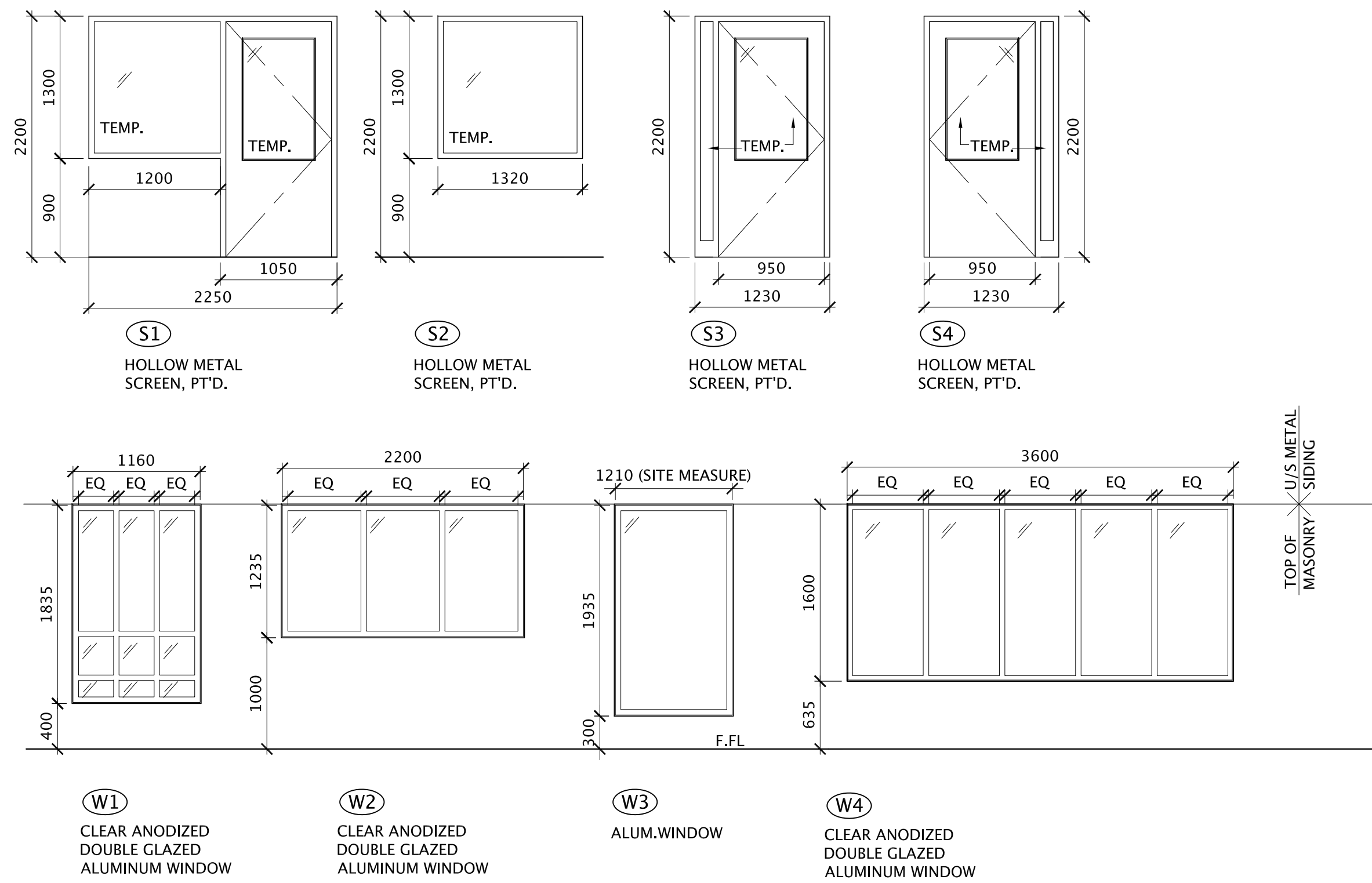
Project
**INTERIOR CHILDCARE RENOVATIONS
TECUMSETH BEETON ELEMENTARY SCHOOL**

43 Patterson Street North
Beeton, Ontario
Drawing Title

MILLWORK DETAILS

Scale	AS NOTED	Drawing No.
Drawn by	DL	A-5.4
Checked by	KC	
Approved by	AC	
Project No.	2022-13062T	

SCREEN TYPES

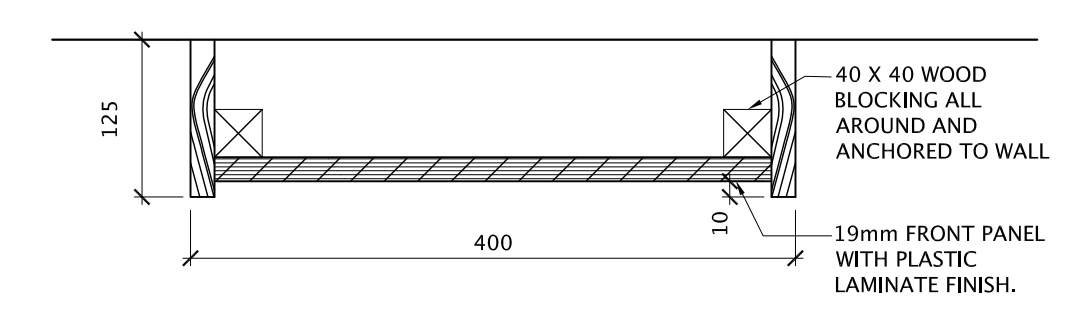
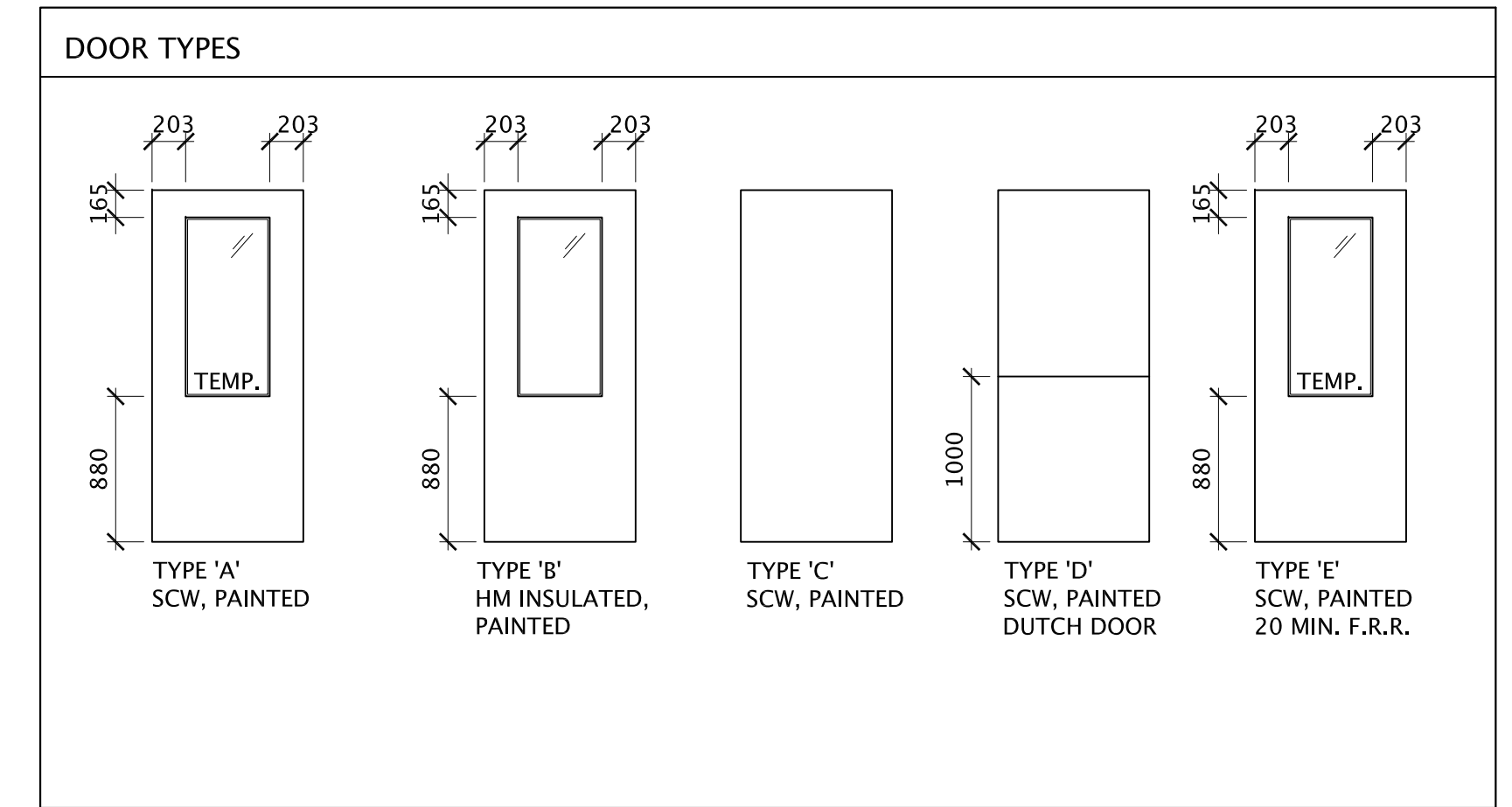


1 DETAIL: CONTROL PANEL
SCALE: 1:10

NO.	NAME	FLOOR	BASE	NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING		REMARKS	
				MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.		HT.
C01	CORRIDOR	EX	EX/NW	---	---	EX	EX	EX	BLK	PT	EX	EX	EX	REMOVE AND REPLACE RB WALL BASE AS SHOWN ON DWGS	
C02	CORRIDOR	EX	EX/NW	EX	EX	---	---	EX	BLK	PT	EX	EX	EX	REMOVE AND REPLACE RB WALL BASE AS SHOWN ON DWGS	
100	LOBBY	EX	EX/NW	EX	EX	EX	EX	BLK / AR	GB	PT	EX	EX	EX	EX. BRICK TO REMAIN UNPAINTED. PATCH REPAIR AND PAINT ALL DAMAGE TO EX. BULKHEAD TO REMAIN AS REQ'D DUE TO REMOVALS	
107	PRESCHOOL	VCT	RB	EX	BLK	PT	EX	BLK	PT	EX	BLK	PT	ACT	2600	
107A	WORK AREA	POR	POR	EX	BLK	PT	BLK	PT	BLK	PT	EX	BLK	PT	ACT	2600
107B	WASHROOM	POR	POR	BLK	PT	EX	BLK	PT	BLK	PT	BLK	POR	ACT	2400	
109	CORRIDOR	POR	POR	BLK	PT	EX	BLK	PT	EX	BLK	PT	EX	ACT	2600	
109A	COAT STORAGE	POR	POR	BLK	PT	EX	BLK	PT	BLK	PT	BLK	PT	ACT	2600	
111	OFFICE	VCT	RB	BLK	PT	BLK	PT	BLK	PT	EX	BLK	PT	ACT	2600	
111A	KITCHEN	POR	POR	BLK	PT	BLK	PT	EX	BLK	PT	EX	BLK	ACT	2600	
111B	STAFF WR	POR	POR	BLK	PT	BLK	PT	BLK	POR	BLK	PT	ACT	2600		
113	TODDLERS	VCT / POR	RB / POR	EX	BLK	PT	EX	BLK	PT	EX	BLK	PT	ACT	2600	
113A	WASHROOM	POR	POR	BLK	PT	BLK	PT	EX	BLK	PT	BLK	POR	ACT	2600	
120	CUSTODIAN	VCT	RB	EX	BLK	PT	EX	BLK	PT	EX	BLK	PT	EX	EX	

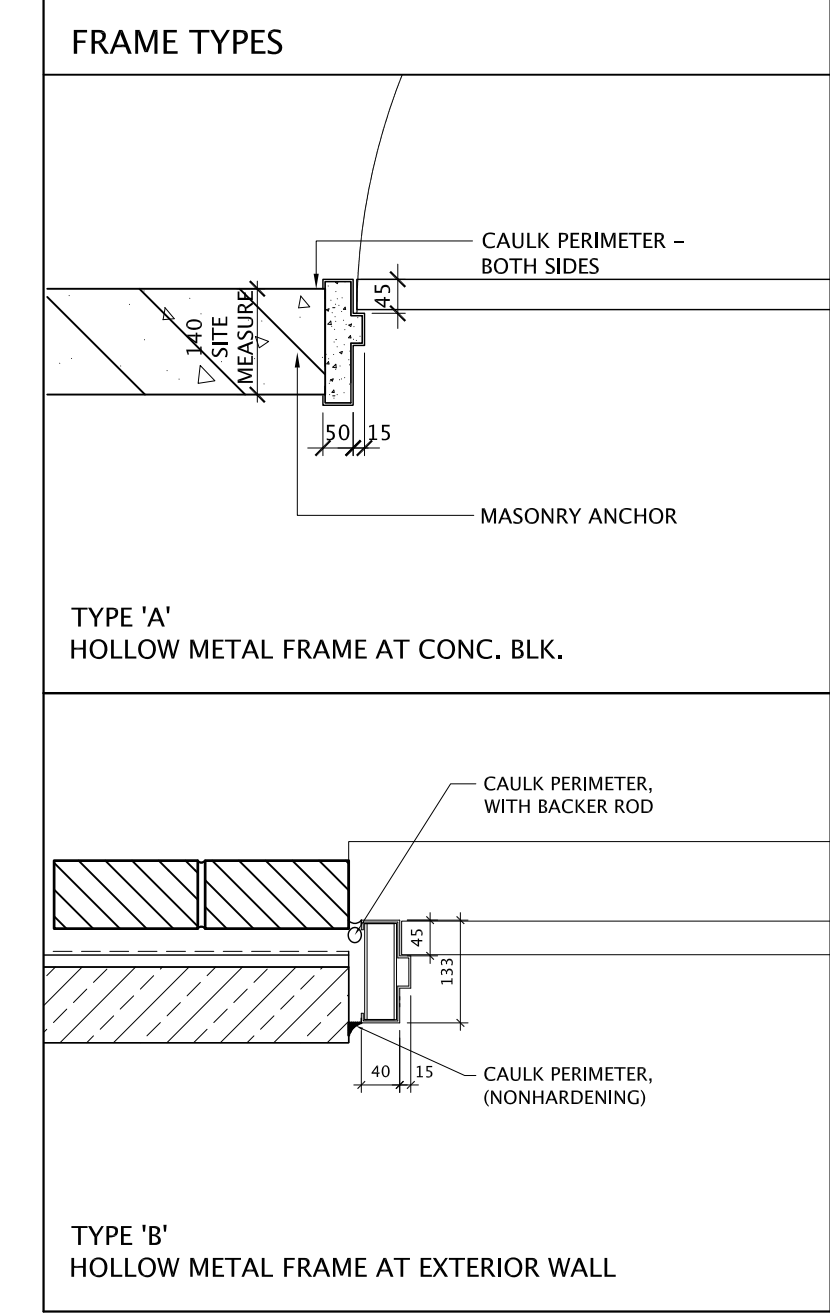
NOTE: ALL FINISHES ARE NEW UNLESS OTHERWISE NOTED.

DOOR SCHEDULE									
DOOR		FRAME						F.R.R.	REMARKS
NO.	NOMINAL SIZE	TYPE	MAT.	FIN.	TYPE	MAT.	FIN.		
107A	950 x 2150	D	SCW	PT	A	HM	PT	---	DUTCH DOOR
107B	950 x 2150	C	SCW	PT	A	HM	PT	---	
109	950 x 2150	B	HM	PT	A	HM	PT	---	
109A	MATCH EX.	E	SCW	PT	A	HM	PT	20 MIN	NEW DOOR AND FRAME TO SUIT EX. OPENING, SITE MEASURE, MATCH EX.
111	950 x 2150	A	SCW	PT	A	HM	PT	---	
111A	950 x 2150	A	SCW	PT	B	HM	PT	---	
111B	950 x 2150	C	SCW	PT	A	HM	PT	---	
113	950 x 2150	D	SCW	PT	A	HM	PT	---	DUTCH DOOR
113A	950 x 2150	C	SCW	PT	A	HM	PT	---	
113B	950 x 2150	B	HM	PT	B	HM	PT	---	
120	900 x 2130 (SITE MEASURE)	E	SCW	PT	EX	HM	PT	20 MIN	INSTALL NEW DOOR IN EX. FRAME



2 PLAN DETAIL: CONTROL PANEL
SCALE: 1:5

ABBREVIATIONS	
ACT	ACOUSTIC CEILING TILE
CPT	CARPET
CONC	CONCRETE
EX	EXISTING
FRG	FIRE RATED GLASS
GB	GYP SUM BOARD
HM	HOLLOW METAL
P.LAM	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER
SCW	SOLID CORE WOOD
TEMP.	TEMPERED
VCT	VINYL COMPOSITE TILE



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Orientation

Seal

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A Detail No.
B Sheet No. where detailed

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Project
**INTERIOR CHILDCARE RENOVATIONS
TECUMSETH BEETON ELEMENTARY SCHOOL**

43 Patterson Street North
Beeton, Ontario
Drawing Title

SCHEDULES		Drawing No. A-6
Scale	AS NOTED	
Drawn by	DL	
Checked by	KC	
Approved by	AC	
Project No.	2022-13062T	

DIVISION 00: DESIGN NOTES

DESIGN STANDARDS

- 1. ALL REINFORCED CONCRETE ELEMENTS ARE DESIGNED IN ACCORDANCE WITH CSA STANDARD A23.3-14.
2. ALL MASONRY ELEMENTS ARE DESIGNED IN ACCORDANCE WITH CSA STANDARD S304.1-04. (R2010)
3. ALL STRUCTURAL STEEL ELEMENTS ARE DESIGNED IN ACCORDANCE WITH CSA STANDARD S16-14.

LATERAL FORCES ON THE STRUCTURE

- 1. THE STRUCTURE IS DESIGNED TO RESIST WIND AND EARTHQUAKE FORCES IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE 2012 ONTARIO BUILDING CODE.

DESIGN VERTICAL LOADS

- 1. THE FOLLOWING LOADS ARE MINIMUM UNFACTORED SERVICE LOADS. FOR LIMIT STATES DESIGN, APPLY LOAD FACTORS AND LOAD COMBINATIONS AS SPECIFIED BY THE 2012 ONTARIO BUILDING CODE AND APPLICABLE DESIGN STANDARDS.
2. ROOF LOADS: DEAD LOAD (UNFACTORED):

Table with 2 columns: LOAD TYPE, VALUE. Row: ROOF DEAD LOAD ALLOWANCE, 1.6 kPa

SNOW LOAD (UNFACTORED):

Table with 2 columns: BEETON (ALLISTON) parameters, VALUE. Rows: Ss, Sr, Cs, Cb, Ca, Cw, IMPORTANCE FACTOR, Is (ULS), S, IMPORTANCE FACTOR, Is (SLS), S

SEE ROOF PLANS FOR AREAS AND MAGNITUDES OF BUILT-UP SNOW LOADS. DESIGN FOR UNBALANCED AND PATTERN LOADS AS SPECIFIED BY THE ONTARIO BUILDING CODE.

RAIN LOAD

REFER TO RAIN LOAD DIAGRAM ON ROOF FLOORING PLANS IF APPLICABLE. A FLOW CONTROL DRAINAGE SYSTEM IS TO BE INSTALLED ON THE ROOF AND ALL LOADING CONDITIONS RESULTING FROM THE STORMWATER MANAGEMENT HAVE BEEN TAKEN INTO ACCOUNT.

UPLIFT LOADS (UNFACTORED):

ROOF ELEMENTS AND THEIR CONNECTIONS ARE TO BE DESIGNED FOR UPLIFT AND DOWNWARD ULS LOADS DUE TO WIND EFFECTS

Table with 2 columns: CORNER ZONE (AREAS WITHIN 4m OF CORNERS OF BUILDING), END ZONE (AREAS WITHIN 30 OF EDGES AND RIDGE), INTERIOR ZONE (REMAINING AREAS), VALUE. Rows: A, B, C

DOWNWARD WIND PRESSURE

Table with 2 columns: ALL AREAS, VALUE. Row: A

INTERIOR PRESSURIZATION:

Table with 2 columns: ALL AREAS, VALUE. Row: A

DESIGN LATERAL LOADS

- 1. THE FOLLOWING LOADS ARE UNFACTORED SERVICE LOADS. FOR LIMIT STATES DESIGN, APPLY LOAD FACTORS AND LOAD COMBINATIONS AS SPECIFIED BY THE 2012 ONTARIO BUILDING CODE AND APPLICABLE DESIGN STANDARDS.

1.1 IMPORTANCE CATEGORY = HIGH

2. WIND LOADS (ALLISTON)

2.1 IMPORTANCE FACTOR: lw = 1.0 (SLS) lw = 0.75 (ULS)

2.2 150 yr HOURLY WIND PRESSURE q = 0.36 kPa

2.3 TERRAIN TYPE: OPEN ROUGH

3. SEISMIC LOADS

3.1 SEISMIC FORCE RESISTING SYSTEM (SFRS) SFRS = CONVENTIONAL CONSTRUCTION OF MOMENT FRAMES, BRACES, FRAMES AND SHEAR WALLS. Rd = 1.5 Ro = 1.3

TABLE 4.1.8.9 OF THE ONTARIO BUILDING CODE

3.2 IMPORTANCE FACTOR (2012 BUILDING CODE, CLAUSE 4.1.8.5) Ie = 1.0 (ULS)

3.3 PROJECT CITY: BEETON (ALLISTON), ONTARIO

3.4 SITE CLASS: THE NOTED SITE CLASSIFICATION FOR SEISMIC SITE RESPONSE INDICATED BELOW ARE PROVIDED BY THE PROJECT GEOTECHNICAL ENGINEER (REFER TO GEOTECHNICAL REPORT FOR THE PROJECT)

TABLE 4.1.8.9 OF THE ONTARIO BUILDING CODE

3.5 DESIGN SPECTRAL RESPONSE ACCELERATION:

3.6 ELEMENTS OF STRUCTURES, NON-STRUCTURAL COMPONENTS AND EQUIPMENT (OBC CLAUSE 4.1.8.18) Ie = Fa / Sd0.2 = 1.18 / 0.35 THEREFORE THE LATERAL SEISMIC FORCE (Fp) DOES NOT APPLY TO NON-STRUCTURAL ITEMS DESCRIBED IN CATEGORIES 8 THROUGH 21 OF TABLE 4.1.8.18 OF THE ONTARIO BUILDING CODE

DIVISION 01: GENERAL CONDITIONS

- 1. ALL DOCUMENTS PREPARED BY THE CONSULTANT ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND REMAIN THE PROPERTY OF THE CONSULTANT.
2. THE PROJECT DRAWINGS MAY FORM PART OF A LARGER SET OF DOCUMENTS FOR THIS PROJECT, AND THEY ARE NOT TO BE READ WITHOUT REFERENCE TO ALL PROJECT DOCUMENTS, WHICH MAY INCLUDE OTHER DRAWINGS, SPECIFICATIONS AND/OR NOTES.
3. THE DRAWINGS AND/OR SPECIFICATIONS MAY BE BROKEN DOWN INTO SECTIONS, DIVISIONS OR TYPICAL TRADES, BUT ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING THE ENTIRE SET OF DOCUMENTS TO ASCERTAIN ALL ASPECTS OF THE WORK RELATED TO THEIR SCOPE OF THE PROJECT. THE GENERAL CONTRACTOR/PROJECT MANAGER, NOT THE CONSULTANT OR THE ENGINEER, IS RESPONSIBLE FOR ALLOCATING RESPONSIBILITY FOR WORK.
4. NEITHER THE CONSULTANT NOR THE ENGINEER WILL RESOLVE DISPUTES RELATING TO THE ALLOCATION OF THE WORK UNDER A GENERAL CONTRACTOR OR PROJECT MANAGER - THE GENERAL CONTRACTOR/PROJECT MANAGER IS RESPONSIBLE FOR COMPLETING ALL ASPECTS OF THE WORK, AND FOR COORDINATING SUCH WORK TO PROVIDE A COMPLETE AND AS SPECIFIED AND AS INTENDED UNDER THE PROJECT DOCUMENTS. IN THE EVENT THAT THE CONSULTANT OR THE ENGINEER IS INVOLVED IN THE REVIEW OF SUBCONTRACTOR BIDS, THESE BIDS SHALL NOT BE QUALIFIED BY STIPULATING THAT THEY ARE BASED ON SPECIFIC DRAWINGS AND/OR SPECIFICATION SECTIONS. IN THIS EVENT, THE BID MAY BE REJECTED.
5. THE INFORMATION PROVIDED ON THE DRAWINGS IS FOR THE PURPOSE OF ACHIEVING THE COMPLETED STRUCTURE. DURING THE CONSTRUCTION PROCESS, THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION PROCEDURES, INCLUDING PROVISIONS FOR TEMPORARY OR PERMANENT SHORING, BRACING, ETC. THIS RESPONSIBILITY INCLUDES DESIGN, SUPPLY, INSTALLATION AND MAINTENANCE.
6. THE ENGINEER TAKES NO RESPONSIBILITY FOR CONSTRUCTION MEANS AND METHODS OR JOBSITE SAFETY DURING CONSTRUCTION. PROCESSING AND/OR APPROVING SUBMITTALS MADE BY THE CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO CONSTRUCTION METHODS OR SAFETY ISSUES OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES ARE DISCUSSED, SHALL NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY THE ENGINEER OR ANY RESPONSIBILITY FOR SAFETY PROCEDURES.
7. WHERE DIMENSIONS ARE PROVIDED FOR EXISTING CONDITIONS, THE CONTRACTOR SHALL NOT CONSIDER THESE TO BE EXACT BUT ONLY TO BE APPROXIMATE. WHERE THE FIT OF NEW WORK OR THE ADJUSTMENT OF EXISTING WORK IS DEPENDENT ON EXACT DIMENSIONS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING SITE DIMENSIONS TO THE LEVEL OF ACCURACY REQUIRED FOR THE EXECUTION OF THE WORK. SHOP DRAWINGS SHALL NOT BE PREPARED AND SUBMITTED PRIOR TO THE CONTRACTOR OBTAINING DETAILED SITE DIMENSIONS FOR THE COMPONENTS OR SYSTEMS AFFECTED.
8. DIMENSIONS PROVIDED ON DRAWINGS MUST BE CHECKED WITH OTHER DRAWINGS, AND/OR VERIFIED WITH EXISTING SITE CONDITIONS. WHERE DISCREPANCIES ARE DISCOVERED, THESE SHALL BE REPORTED TO THE PROJECT CONSULTANT FOR RESOLUTION PRIOR TO PROCEEDING WITH AFFECTED WORK.
9. PROVIDE ALL ACCESSORY ITEMS OR MATERIALS, SUCH AS BRACKETS, CLEANS, UNDERLAYS, OVERLAYS, CONNECTORS, FASTENERS, COVER PLATES, SEALANTS, LUBRICANTS, CLEANERS, BONDING AGENTS, AND SIMILAR ITEMS, WHETHER SPECIFIED OR NOT, SO THAT THE WORK IS COMPLETE AND WILL PERFORM AS REQUIRED.
10. INSTALLATION OF OPENINGS, SLEEVES, ETC. THAT ARE NOT SHOWN OR OTHERWISE PERMITTED ON THE STRUCTURAL DRAWINGS SHALL NOT BE PERFORMED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
11. INFORMATION PROVIDED IN DETAILS ON THE DRAWINGS SHALL GOVERN THE WORK. WHERE DETAILS DIFFER ON OTHER DRAWINGS, THE MOST STRINGENT REQUIREMENTS STATED OR DEPICTED SHALL APPLY.
12. LOADS APPLIED TO THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE SPECIFIED DESIGN LOADINGS INDICATED ON THE STRUCTURAL DRAWINGS UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER.
13. SECTION 1.2.2 OF DIVISION C OF THE ONTARIO BUILDING CODE 2012 REQUIRES GENERAL REVIEW OF CONSTRUCTION. IT IS THE OWNER AND/OR PERMIT APPLICANT'S RESPONSIBILITY TO ENGAGE A QUALIFIED ENGINEER TO PERFORM THIS WORK, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST INSPECTION IN ACCORDANCE WITH THE LEVEL OF ACCURACY REQUIRED FOR THE EXECUTION OF THE WORK. SHOP DRAWINGS WITHOUT PROPER REVIEW, WORK SHALL BE UNCOVERED AS REQUIRED BY THE CONSULTANT AND REPAIRED AS NECESSARY, OR REINSTATED, AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ADVISING THE CONSULTANT AND THE CHIEF BUILDING OFFICIAL OF THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, AND FOR ENSURING THAT ALL REQUIRED CONSTRUCTION REVIEW IS PERFORMED AS REQUIRED BY THE WRITTEN SCHEDULES PROVIDED BY THE GOVERNING PARTIES.
14. ALL STANDARDS AND CODES REFERENCED IN THESE NOTES SHALL BE THE MOST CURRENT LEGISLATED VERSIONS.

DIVISION 01: GENERAL CONDITIONS CONTINUED

- 1. "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL ELEMENTS" ARE NOT PART OF THE STRUCTURAL DESIGN SHOWN ON THESE DRAWINGS. IF REQUIRED, SUCH ELEMENTS ARE DESIGNED, DETAILED, AND REVIEWED BY SPECIALTY STRUCTURAL ENGINEERS. THE SPECIALTY STRUCTURAL ENGINEERS SHALL ALSO PROVIDE ANY LETTERS REQUIRED BY BUILDING PERMIT AUTHORITIES. SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO GERRITS ENGINEERING LIMITED FOR REVIEW ONLY FOR THE EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM. EXAMPLES OF NON-STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
a. ARCHITECTURAL COMPONENTS SUCH AS FLAG POSTS, CEILING, MILLWORK, ETC.
b. LANDSCAPE ELEMENTS SUCH AS BENCHES AND PLANTERS;
c. CLADDING, INTERIOR STUD WALLS, GLASS BLOCK;
d. MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS AND THEIR ATTACHMENT DETAILS;
e. ESCALATORS, ELEVATORS, AND THEIR ATTACHMENTS;
f. MISCELLANEOUS METALS, GRATING, GUARDS, ETC.

- 16. SERVICES CAST INTO THE STRUCTURE:
- PLACE CONDUITS IN ACCORDANCE WITH TYPICAL DETAILS. CONTRACTOR TO SUBMIT CONDUIT LAYOUT PLAN IN ADVANCE OF CONSTRUCTION
- NO METAL CONDUITS, BOXES OR OTHER SERVICES ARE PERMITTED WITHIN PARKING STRUCTURE SLABS

- 17. GERRITS ENGINEERING LIMITED WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON GELS DRAWINGS. THE EXTENT OF THIS REVIEW IS AT THE SOLE DISCRETION OF GEL'S ENGINEER AND IS FOR THE SOLE PURPOSE OF ASCERTAINING COMPLIANCE WITH THE STRUCTURAL DESIGN CONCEPT. THE REVIEW IS NOT AN APPROVAL OF THE DESIGN, DETAILS, AND DIMENSIONS INHERENT IN THE SHOP DRAWINGS. RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR OR SUBCONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTOR OF THEIR RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.

- 18. REQUIRED SUBMISSION PERTAINING TO GENERAL REVIEW
+ INDICATES PROFESSIONAL ENGINEER SEAL REQUIRED
THE ITEMS NOTED BELOW ARE REQUIRED TO BE SUBMITTED TO GERRITS ENGINEERING LIMITED. ALL SUBMISSION(S) INDICATED SHALL BE PROVIDED PRIOR TO REQUEST FOR GENERAL CONFORMANCE REVIEW LETTER(S).
FOUNDATIONS
1. REINFORCING CAPACITY AT FOUNIDING LEVEL (GEOTECHNICAL)
2. PLACEMENT OF ENGINEERED FILL - IN-SITU DENSITY TESTING (GEOTECHNICAL)

- 24. CAST IN PLACE CONCRETE
1. DETAILED MIX DESIGNS AS PER READY-MIX CONCRETE ASSOCIATION OF ONTARIO (RMC/O) GUIDELINES FOR CAST-IN-PLACE CONCRETE
2. CONCRETE QUALITY TESTING REPORTS (THIRD PARTY INSPECTION/GENERAL CONTRACTOR)
3. REINFORCING STEEL SHOP DRAWINGS (REINFORCING STEEL, SUPPLIER)
4. CONCRETE ADMIXTURES AND ACCESSORIES (DATA SHEETS, SURFACE HARDENER, CURE AND SEAL COMPOUNDS)

- 25. STRUCTURAL STEEL
1. STRUCTURAL STEEL ERECTION DRAWINGS (STEEL FABRICATOR)
2. STRUCTURAL STEEL FABRICATOR SHOP DRAWINGS (STEEL FABRICATOR)

- 26. TEMPORARY STRUCTURES
1. FALSEWORK AND SHORING
ENGINEER'S FORMAL SCHEDULE FOR GENERAL REVIEW GEL ITC
FOUNDATIONS
1. EXPOSED FOUNIDING SOL (BEARING CAPACITY VERIFICATION)
2. PLACEMENT OF ENGINEERED FILL IN-SITU DENSITY TESTING
3. FOOTINGS - FORMING AND REINFORCING STEEL
4. FOUNDATION WALLS - REINFORCING STEEL
5. FOUNDATION WALLS - REINFORCING STEEL
6. PIERS - REINFORCING STEEL AND ANCHOR RODS

- 27. CAST IN PLACE CONCRETE
1. REINFORCING STEEL
2. SAW-CUTS
3. STRENGTH TESTS (1 - 7 DAY AND 2 - 28 DAY MIN)

- 28. STRUCTURAL STEEL
1. ANCHOR RODS TIGHT
2. BEAM CONNECTIONS TO COLUMN
3. COLUMNS PLUMB
4. CORNER CONNECTIONS TO BEAMS
5. BRACING CONNECTIONS TO COLUMN
6. WELDING INSPECTION (100% VISUAL REVIEW PLUS 10% RANDOM NDT OF ALL WELDS)

- 29. LOAD-BEARING MASONRY
1. REINFORCING STEEL (VERTICAL)
2. REINFORCING STEEL (HORIZONTAL)
3. JOINT REINFORCING
4. GROUT
5. LINTELS

- 30. STEEL DECK
1. PERIMETER AND PUDDLE WELDS/DECK FASTENERS
2. SIDE-LAP
3. END-LAP
4. CLOSURES

- 31. OCCUPANCY
STRUCTURAL PLANS SHOW BEARING WALLS AND COLUMNS BELOW THE FLOOR OR ROOF STRUCTURE WITH DASHED LINES, WALLS AND COLUMNS ABOVE THE FLOOR ARE SHOWN WITH CONTINUOUS LINES.

DIVISION 03: CONCRETE

- 1. CAST-IN-PLACE CONCRETE

- 1. ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH CSA STANDARDS A23.1, A23.2 AND A23.3.

- 2. READY-MIX CONCRETE SHALL BE DESIGNED, MANUFACTURED, AND DELIVERED BY AN EXPERIENCED SUPPLIER, REGISTERED WITH THE READY-MIX CONCRETE ASSOCIATION OF ONTARIO (RMC/O) AND ISO 9001 QUALITY CERTIFIED.

- 3. MIX DESIGNS SHALL COMPLY WITH THE REQUIREMENTS OF CLAUSE 14.3 "DURABILITY" OF CSA A23.1.

- 4. CLASSES OF CONCRETE:

Table with 6 columns: CLASS OF CONCRETE, LOCATION, EXPOSURE CLASS, STRENGTH (MPa), SLUMP** (mm), AIR (percent). Rows: A, G

NOTE: THE USE OF PLASTICIZERS OR OTHER WATER REDUCING ADMIXTURES TO FACILITATE PLACEMENT OF CONCRETE SHALL BE AT THE OPTION OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED AS AN EXTRA TO THE CONTRACT.

** SLUMP AFTER THE ADDITION OF WATER REDUCING ADMIXTURES SHALL NOT EXCEED 150mm (6") WHEN REINFORCING FIBERS ARE USED

- 1.5 REINFORCING STEEL SHALL CONSIST OF DEFORMED BARS CONFORMING TO CAN/CSA-G30.18, WITH A MINIMUM YIELD STRENGTH OF 400 MPa, UNLESS STIPULATED OR INDICATED OTHERWISE. ALL BARS SHALL BE AS FOLLOWS:

Table with 2 columns: BAR TYPE, MINIMUM LAP LENGTH. Rows: 10M, 15M, 20M, 25M

- 1.6 REINFORCEMENT NOTES AS CONTINUOUS IS TO TERMINATE WITH A STANDARD 90 DEGREE HOOK AND SHALL BE LAPPED WITH AS NOTED ABOVE (OR CLASS B TENSION SPLICE)

- 1.7 REINFORCING STEEL SHALL BE FABRICATED BY A SUPPLIER EXPERIENCED IN BAR BENDING. REINFORCING STEEL MAY BE SITE FABRICATED ONLY WITH ENGINEER'S APPROVAL OF BENDING EQUIPMENT AND METHODS. ALL BEND DIAMETERS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF CSA A23.1.

- 1.8 STANDARD HOOK LENGTHS ARE AS FOLLOWS (UNLESS NOTED OTHERWISE):

Table with 2 columns: BAR TYPE, HOOK LENGTHS. Rows: 10M, 15M, 20M, 25M

- 1.9 CONCRETE COVER TO REINFORCEMENT (UNLESS OTHERWISE SHOWN):

Table with 2 columns: WHEN CAST AGAINST EARTH, WHEN CAST IN FORMS EXPOSED TO EARTH, WATER OR WEATHER, WALLS AND SLABS, NOT EXPOSED TO EARTH, WATER OR WEATHER, SLAB ON GRADE TO TOP LAYER, VALUE. Rows: 75mm (3"), 40mm (1 1/2"), 20mm OR LARGER, 20mm (3/4"), 65mm (2 1/2")

DIVISION 03: CONCRETE (CONTINUED)

- 1.10 PROVIDE MATCHING DOWELS FROM PIER OR WALL INTO PAD OR STRIP FOOTINGS, UNLESS NOTED OTHERWISE.

- 1.11 CONCRETE STRENGTH TESTS: THE CONTRACTOR IS RESPONSIBLE TO ARRANGE FOR CONCRETE STRENGTH TESTS TO BE COMPLETED BY A CSA CERTIFIED INSPECTION TESTING COMPANY, AS PER CSA A23.182 REQUIREMENTS. AS A MINIMUM ONE (1) STRENGTH TEST SHALL BE COMPLETED FOR EACH TYPE OF CONCRETE PLACED EACH DAY THAT CONCRETE IS PLACED. ADDITIONAL STRENGTH TESTS SHALL BE COMPLETED FOR EVERY 100m3 OF CONCRETE PLACED. EACH STRENGTH TEST SHALL CONSIST OF 3 STANDARD TEST CYLINDERS (1 TESTED FOR 7 DAY STRENGTH AND 2 TESTED FOR 28 DAY STRENGTH), SLUMP TESTING AND MEASUREMENT OF AIR ENTRAINMENT. NOTIFY THE ENGINEER IMMEDIATELY IF THE 7 DAY STRENGTH IS LESS THAN 70% OF THE SPECIFIED 28 DAY STRENGTH. IF THE 1" 28 DAY BREAK DOES NOT REACH THE SPECIFIED STRENGTH, NOTIFY THE ENGINEER IMMEDIATELY AND SAVE THE 3RD CYLINDER FOR A 56 DAY BREAK.

2. CONCRETE FINISHES

- 2.1 ALL CONCRETE IS TO BE CURED IN CONFORMANCE WITH CSA A23.1. ALL SLABS TO BE EITHER WET CURED OR APPLY SUPER DIAMOND VOK CURE AND SEAL COMPOUND FOR MINIMUM 3 DAY CURING PERIOD UNLESS SPECIFICALLY NOTED OTHERWISE. PARKING GARAGE SLABS TO BE CONTINUOUSLY WET CURED FOR MINIMUM 7 DAYS. REMOVE CURING COMPOUND IF REQUIRED FOR MEMBRANE INSTALLATION ONLY AFTER CURING PERIOD HAS ENDED.

3 SERVICES CAST INTO THE STRUCTURE

- 3.1 THE CONTRACTOR IS TO SUBMIT EMBEDDED CONDUIT LAYOUT PLANS/SHOP DRAWINGS WELL IN ADVANCE OF CONSTRUCTION AND OBTAIN REVIEW AND ACCEPTANCE OF THE CONSULTANT PRIOR TO INSTALLATION ON-SITE. REFER TO TYPICAL DETAILS FOR REQUIREMENTS FOR EMBEDDED ITEMS.

DIVISION 04: MASONRY

1. GENERAL

- 1.1 ALL MASONRY CONSTRUCTION SHALL CONFORM TO CSA STANDARD A371 "MASONRY CONSTRUCTION FOR BUILDINGS". ALL STRUCTURAL LOAD BEARING WALLS SHALL BE CONSTRUCTED FROM BLOCK UNITS HAVING A STRENGTH OF 15 MPa BASED ON NET AREA. MORTAR SHALL BE TYPE S.

- 1.2 SUPPLY REINFORCING STEEL FOR MASONRY WORK, TO BE INSTALLED BY MASONRY TRADE UNLESS OTHERWISE STIPULATED BY THE GENERAL CONTRACTOR.

2. MATERIALS

- 2.1 ENSURE THAT WATER AND AGGREGATE USED IN MORTAR, OTHER THAN WALLS BURIED BELOW GRADE ON TWO SIDES, WILL CAUSE NO EFFLORESCENCE.

- 2.2 MASONRY UNITS SHALL CONFORM TO CSA A371. CONNECTORS FOR MASONRY SHALL CONFORM TO CSA A370.

- 2.3 MORTAR IS TO CONFORM TO CSA A179, TYPE S FOR LOAD BEARING WALLS. PARING IS TO CONFORM TO CSA A179, TYPE M.

- 2.4 BLOCK: NORMAL WEIGHT CONCRETE MASONRY UNITS, METRIC, MODULAR, AUTOCLAVED, LOAD BEARING TO CSA A165. FOUNDATION WALLS: - SOLID UNITS, S15/O/A/D - HOLLOW UNITS, H15/O/A/D ABOVE GRADE - SOLID UNITS, S12/S1A/M - HOLLOW UNITS, H12/S1A/M

- 2.5 GROUT: TO BE CONCRETE GROUT WITH POURABLE CONSISTENCY AND MINIMUM 20MPa COMPRESSIVE STRENGTH AND AS PER CSA A179. DO NOT USE MORTAR AS GROUT.

- 3. WORKMANSHIP
3.1 KEEP MATERIALS DRY UNTIL USE, AND PROTECT FRESHLY LAID MASONRY FROM DRYING TOO RAPIDLY.
3.2 PROVIDE TEMPORARY BRACING OF MASONRY WORK UNTIL PERMANENT LATERAL SUPPORT IS IN PLACE.
3.3 MORTAR AND GROUT MAY BE SAMPLED BY TESTING AGENCY. THE ENGINEER MAY CONDUCT PROBE TESTS AT GROUDED MASONRY.

- 3.4 SEE PLANS FOR SIZE AND SPACING OF JOINT REINFORCING FOR SHEAR WALL PANELS.
3.5 CONNECTORS FOR MASONRY TO CONFORM TO CSA STANDARD A370.

- 3.6 GROUT SOLID MASONRY UNITS WHERE SHOWN ON DRAWINGS. ALL GROUDED MASONRY SHALL CONFORM TO ARTICLE 5.9 OF CSA A371. GROUT STRENGTH TO BE 20 MPa. AFTER PLACEMENT, THE TEMPERATURE OF THE GROUDED MASONRY SHALL BE MAINTAINED AT MINIMUM 7°C FOR NOT LESS THAN 72 HOURS.

- 3.7 GROUT SHALL CONFORM TO CSA STANDARD A179 AND SHALL BE OF POURABLE CONSISTENCY. FILLING OF BLOCK UNITS WITH MORTAR IS NOT ACCEPTABLE AND WILL BE REJECTED.

- 3.8 PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS, INCLUDING THOSE FOR MECHANICAL AND ELECTRICAL EQUIPMENT. PROVIDE A MINIMUM BEARING OF 200mm FOR ALL LINTELS UNLESS NOTED OTHERWISE. PROVIDE A SLIDING BEARING FOR LINTELS CROSSING A CONTROL JOINT. LINTELS SHALL BE AS SHOWN AND AS SPECIFIED. FOR MISCELLANEOUS OPENINGS, SEE INFORMATION IN TYPICAL DETAILS ON STRUCTURAL DRAWINGS.

- 3.9 DO MASONRY REINFORCING AND TYING IN ACCORDANCE WITH CSA STANDARD A371.

- 3.10 CONTROL JOINTS SHALL BE CONSTRUCTED AS DETAILED AND AT LOCATIONS INDICATED; IF NOT SPECIFICALLY INDICATED, CONTROL JOINTS SHALL BE PROVIDED WITHIN 600mm (2'-0") OF CORNERS OF WALLS, AND ELSEWHERE AT MAXIMUM 6.0m (20'-0") c/c. CARRY JOINTS FULL HEIGHT OF WALLS. ENSURE COMPLETE VERTICAL SEPARATION THROUGH WALLS. MAKE JOINTS 10mm WIDE. LEAVING JOINTS FREE AND CLEAR FOR CAULKING. CONSTRUCT CONTROL JOINTS OF STANDARD BLOCK AND FILL VOID BETWEEN BLOCK WITH 15 MPa CONCRETE GROUT. INSTANT. CONTINUOUS BUILDING PAPER BETWEEN CONCRETE KEY AND BLOCK ON ONE SIDE OF JOINT.

- 3.11 MASONRY UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS. LAY MASONRY TO MEET SPECIFIED REQUIREMENTS OF CSA STANDARD S304.1, FROM FACE SIDE, TO COURSE ON MODULE TO MATCH METRIC BLOCK, AND TO MINIMIZE CUTTING OF UNITS. MAKE JOINTS OF UNIFORM THICKNESS WITH VERTICAL JOINTS PLUMBED OVER EACH OTHER.

- 3.12 HORIZONTAL JOINT REINFORCING SHALL CONSIST OF STANDARD TRUSS TYPE REINFORCING AS MANUFACTURED BY HOHMANN'S BARNARD OR EQUAL. REINFORCING TO BE MILL GALVANIZED WHEN INSTALLED IN INTERIOR WALLS, AND HOT DIPPED GALVANIZED WHEN INSTALLED IN EXTERIOR WALLS (OUTSIDE OF THE BUILDING VAPOUR BARRIER), OR WHEN PENETRATING THE BUILDING VAPOUR BARRIER UNLESS OTHERWISE STIPULATED. INSTALL 3.8mm TRUSS TYPE REINFORCEMENT ON EVERY SECOND COURSE OF UNIT MASONRY ABOVE GRADE. USE PREFABRICATED CORNERS AT WALL INTERSECTIONS AND STOP REINFORCEMENT 25mm SHORT OF EACH SIDE OF CONTROL JOINTS.

- 3.13 INSTALL WEEP HOLE VENTS IN VERTICAL EXTERIOR MORTAR JOINTS IMMEDIATELY OVER FLASHINGS. HORIZONTAL SPACING SHALL NOT EXCEED 400mm (16") ON CENTER. USE PREFORMED PLASTIC VENTS WITH RAIN AND INSECT GUARDS.

- 3.14 BEAMS AND LINTELS SHALL HAVE A MINIMUM LENGTH OF BEARING OF 200mm (8") ON SOLID OR GROUDED MASONRY, UNLESS OTHERWISE NOTED.

- 3.15 BENEATH STEEL BEAMS AND JOISTS PROVIDE A MINIMUM DEPTH OF 400mm (16") OF 100% SOLID MASONRY UNITS OR GROUDED HOLLOW UNITS, WHICH PROJECT AT LEAST 200mm (8") BEYOND THE EDGES OF BEARING PLATES.

- 3.16 BUILD MASONRY TIGHT INTO THE WEBS OF ALL WALL BEARING STEEL LINTELS AT THEIR POINTS OF BEARING.

- 3.17 INSTALL FLASHINGS IN MASONRY IN ACCORDANCE WITH CSA STANDARD A371.

DIVISION 05: STRUCTURAL STEEL

1. GENERAL - STRUCTURAL STEEL

- 1.1 CONNECTION DESIGN SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD S16. FOR LOADS INDICATED OR IMPLIED, DESIGN ALL CONNECTIONS FOR 50% OF BEAM SHEAR CAPACITY (2 BOLTS MINIMUM) UNLESS NOTED OTHERWISE.

- 1.2 STEEL TO STEEL CONNECTIONS SHALL BE HIGH STRENGTH TENSILE BOLTS (A325), OR APPROVED WELDING METHOD.

- 1.3 WELDING TO CONFORM TO CSA STANDARD W59. USE E490X (E70XX) ELECTRODES FOR ALL WELDING.

- 1.4 WHERE LINTELS CONSIST OF TWO OR MORE MEMBERS, CONNECT THE INDIVIDUAL MEMBERS AS STIPULATED. SEE ALSO LINTEL SCHEDULE.

- 1.5 ALL STEELWORK TO BE DONE ONLY BY A FABRICATOR CERTIFIED BY THE CANADIAN WELDING BUREAU.

- 1.6 SHOP DRAWINGS FOR ALL STEELWORK SHALL BE SUBMITTED FOR REVIEW BY THE PROJECT ENGINEER. STANDARD CONNECTIONS SHALL CONFORM TO THE "HANDBOOK OF STEEL CONSTRUCTION". CONNECTIONS SPECIFICALLY NOTED OTHERWISE. PARKING GARAGE SLABS TO BE CONTINUOUSLY WET CURED FOR MINIMUM 7 DAYS. REMOVE CURING COMPOUND IF REQUIRED FOR MEMBRANE INSTALLATION ONLY AFTER CURING PERIOD HAS ENDED.

- 1.7 ALL STRUCTURAL STEEL BOLTS, BRACKETS, HARDWARE ETC. EXPOSED TO WEATHER OUTSIDE OF THE VAPOUR BARRIER ARE TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH CSA G164.

3. GENERAL - METAL DECK

- 3.1 DECK SUPPLIER SHALL REVIEW ALL DECK LOADS AND SPANS TO CONFIRM THE ABILITY OF DECK TO SUPPORT LOADS. FABRICATION AND ERECTION IS TO BE IN ACCORDANCE WITH CAN/CSA S136. SHOP DRAWINGS FOR METAL DECK SHALL BE SUBMITTED FOR REVIEW BY THE PROJECT ENGINEER SEALED BY THE LICENSED ENGINEER RESPONSIBLE FOR DECK DESIGN.

- 3.2 DECK SUPPLIER TO DESIGN ROOF DECK DIAPHRAGM FOR DIAPHRAGM SHEAR FORCE (SEISMIC) OF 4.1kN/m (FACTORED) IN ADDITION TO OTHER LOADS SHOWN.

- 3.3 CONNECT DECK TO STEELWORK WITH MIN. 20mm (3/4") FUSION WELDS AT 300mm (12") c/c (364 PATTERN), CRIMP SIDE LAP AT 800mm (24") c/c (MIN) OR AS REQUIRED BY THE DECK DESIGNER FOR THE LOADS SPECIFIED. MECHANICAL FASTENING OF DECK IS PERMITTED ONLY WITH PRIOR WRITTEN APPROVAL OF PROJECT ENGINEER.

- 3.4 OPENINGS 150mm (6") DIA. AND LARGER TO BE REINFORCED BY DECK SUPPLIER. OPENINGS 460mm (18") DIA. AND LARGER SHALL BE STRUCTURALLY FRAMED BY STEEL CONTRACTOR.

- 3.5 DECKING SHALL SPAN OVER THREE OR MORE SUPPORTS.

- 3.6 PROVIDE METAL COVER PLATES, CELL CLOSURES, EDGE STRIPS, UPLIFTS, ETC. AS REQUIRED FOR WORK OF OTHERS ATTACHING TO METAL DECK.

- 3.7 FIELD PRIME ALL FIELD CUT OPENINGS AND WELDS.

4. MATERIALS

- 4.1 STRUCTURAL STEEL SHALL CONFORM TO CSA STANDARD G40.21. ALL ROLLED W-SECTIONS TO BE GRADE 350M. ALL PLATES, ANGLES AND CHANNELS TO BE GRADE 300M, AND ALL HSS TO BE CSA STANDARD G40.21, CLASS C OR ASTM A500.

- 4.2 METAL ROOF DECK TO BE 3840.76 (MIN) NON-COMPOSITE P3615 BY CANAM, OR APPROVED EQUAL, CONFORMING TO ASTM A635 GRADE A OR B UNLESS OTHERWISE SPECIFIED. METAL DECK PROTECTIVE COATING TO CONFORM TO ZF75 (A25).

- 4.3 METAL FLOOR DECK TO BE 3840.76mm (22 ga) MN COMPOSITE P3615 BY CANAM OR APPROVED EQUAL CONFORMING TO ASTM A635 GRADE A OR B UNLESS OTHERWISE SPECIFIED. METAL DECK PROTECTIVE COATING TO CONFORM TO ZF75 (A25).

- 4.4 PRIME PAINT: TO CISC/CPMA STANDARD 2-75

- 4.5 HOT DIP GALVANIZING: TO CSA G164, MINIMUM COATING THICKNESS OF 600g/m2

- 4.6 ROOF AND FLOOR DECK TO BE GALVANIZED TO ZF75 UNLESS OTHERWISE STATED OR SPECIFIED. PREPARE AS REQUIRED FOR PAINT FINISH WHERE INDICATED ON ARCHITECTURAL DRAWINGS. FLOOR DECK NOTED TO RECEIVE CONCRETE TOPPING TO BE COMPOSITE STEEL DECK WITH GALVANIZED FINISH TO ZF75.

- 4.7 ANCHOR RODS TO CONFORM TO ASTM F1554 WITH A MINIMUM STRENGTH OF 36kN (250 MPa) (YIELD) AND 58kN (400 MPa) (ULTIMATE)

DIVISION 31: EARTHWORK

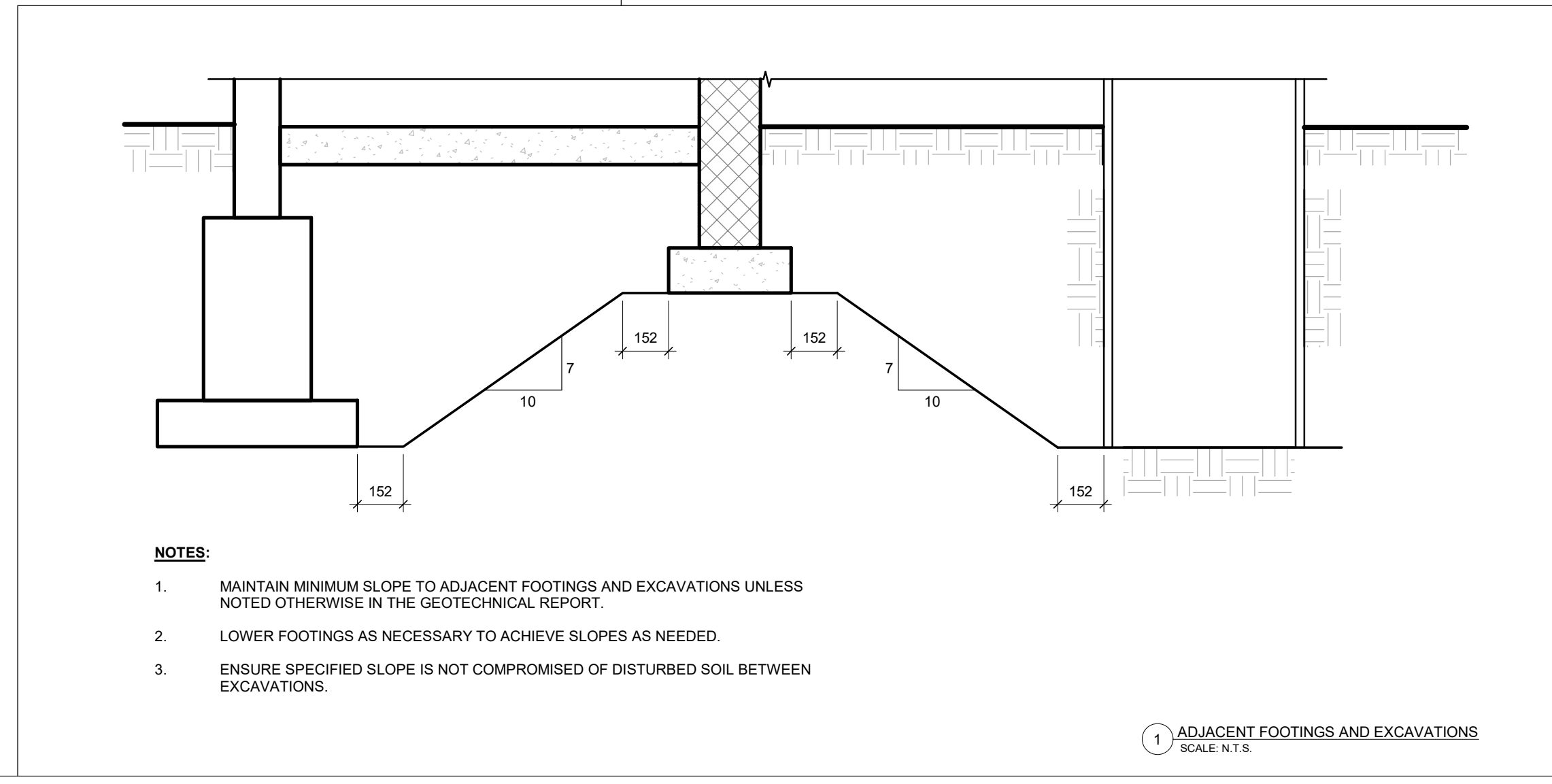
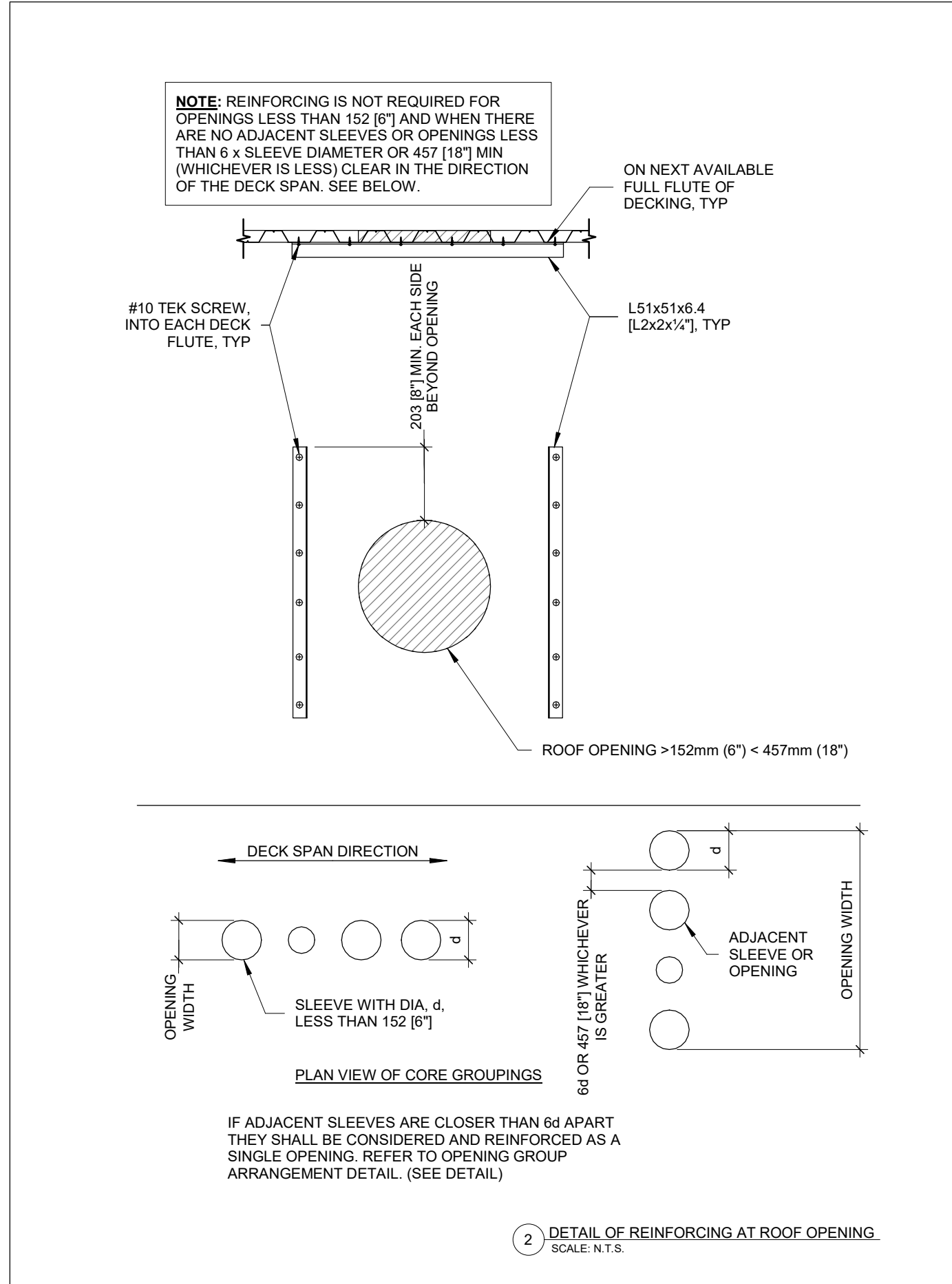
1. EXCAVATING AND BACKFILLING

- 1.1 ALL FOOTINGS SHALL REST ON COMPETENT, INORGANIC NATIVE SOIL OR ENGINEERED FILL, IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THIS SITE.

- 1.2 A BEARING CAPACITY OF 160 kPa (2,000 psf) HAS BEEN ASSUMED FOR DESIGN. THIS CAPACITY MUST BE CONFIRMED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION OF FOUNDATIONS. WHERE A LESSER CAPACITY IS CONFIRMED BY THE GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL NOT COMMENCE WITH THE INSTALLATION OF FORMWORK UNTIL SUCH TIME AS THE ENGINEER HAS PROVIDED WRITTEN CONFIRMATION OF THE REQUIRED FOOTING SIZES AND REINFORCEMENT.

- 1.3 FOOTING ELEVATIONS PROVIDED ON DRAWINGS ARE SUGGESTED MINIMUMS, AND BEARING SURFACES MUST BE REVIEWED ON SITE BY A GEOTECHNICAL ENGINEER TO VERIFY THAT THE STATED BEARING CAPACITY AND DEPTH FOR FROST PROTECTION HAVE BEEN

LEGEND OF ABBREVIATIONS	
AB	ANCHOR BOLT
ACT	ACOUSTIC CEILING TILE
ADJ	ADJUSTABLE
AF	ABOVE FINISHED FLOOR
AFB	ASPHALT IMPREGATED FIBREBOARD
ALUM	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECTURAL
AWG	AMERICAN WIRE GAUGE
BCE	BOTTOM CHORD EXTENSION
BD	STEEL PIPE COLLARD
BEW	BOTTOM EACH WAY
B F	BARRIER FREE
BFP	BACK FLOW PREVENTER
BK	BRACKET
BLK	BLOCK
BLL	BOTTOM LOWER LAYER
BLW	BOTTOM LONG WAY
BMB	BENDING MOMENT BAR
BPL	BASE OR BEARING PLATE
BRG	BEARING
BS	BOTH SIDES
BSMT	BASEMENT
BSW	BOTTOM SHORT WAY
BTM	BOTTOM
BUL	BOTTOM UPPER LAYER
CANT	CANTILEVER
c/c	CENTRE TO CENTRE
CF	CONCRETE FIREPROOFED
CI	CONTINUOUS INSULATION
CK	CONTROL JOINT
CL	CALLK
CL	CLEAR
CL	CENTRE LINE
COL	COLUMN
COMP	COMPOSITE
CONC	CONCRETE
CONST. JT	CONSTRUCTION JOINT
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CUT	CUT TO SUIT
CW	COMPLETE WITH CONCRETE WALL
CW	COMPLETE WITH CONCRETE WALL
DBL	DOUBLE
D FR	DOUGLAS FIR
DGL	DIAGONAL
DA	DIAMETER
DM	DIMENSION
DL	DEAD LOAD
DO	DITTO
DTL	DETAIL
DWG	DRAWING
EA	EACH
EF	EACH FACE
ELEV	ELEVATION
EMBED	EMBEDMENT
EQ	EQUAL
EW	EACH WAY
EX	EXISTING
EXP. JT	EXPANSION JOINT
EAT	EXTERIOR
f _c	COMPRESSIVE STRENGTH OF CONCRETE
FCF	FACTORED COMPRESSIVE FORCE
FD	FLOOR DRAIN
FON	FINISH
FN	FINISH
FLR	FLOOR
FMC	FULL MOMENT CONNECTION
FTG	FOOTING
f _y	YIELD STRENGTH
GA	GALVANIZED
GALV	GERRITS ENGINEERING LIMITED
GEL	GYPSPUM WALL BOARD
GWB	GYPSPUM WALL BOARD
HCW	HOLLOW CORE WOOD
HEF	HORIZONTAL EACH FACE
HEH	HORIZONTAL EACH END
HF	HORIZONTAL INSIDE FACE
HLM	HOLLOW METAL
HOE	HOOK ONE END
HOEF	HORIZONTAL OUTSIDE FACE
HORZ	HORIZONTAL
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL STEEL
HTE	HOOK TWO ENDS
I	INSIDE TO INSIDE
IOW	INTERIOR CURTAIN WALL
INSUL	INSULATION
INT	INTERIOR
IS	INSIDE
ITC	INSPECTION AND TESTING COMPANY
KD	KNOCK DOWN
KN	KILONEVTON
KPa	KILOPASCAL
L	SINGLE ANGLE
L	DOUBLE ANGLE
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LVL	LAMINATED VENEER LUMBER
m	METRE
m ²	SQUARE METRE
mm	MILLIMETRE
MAX	MAXIMUM
MECH	MECHANICAL
MF	FACTORED MOMENT
MIN	MINIMUM
MISC	MISCELLANEOUS
MPa	MEGAPASCAL
NBC	NATIONAL BUILDING CODE OF CANADA
NF	NEAR FACE
NIC	NOT IN CONTRACT
NL	NO LIMIT
NTS	NOT TO SCALE
O/C	ON CENTER
OBC	ONTARIO BUILDING CODE
OD	OUTSIDE DIAMETER
OH	OVERHEAD
O/O	OUTSIDE TO OUTSIDE
OPP	OPPOSITE
OPN	OPENING
OS	OUTSIDE
OSB	ORIENTED STRAND BOARD
OWSJ	OPEN WEB STEEL JOIST
PB	PUSH BUTTON
PC	PRECAST
PL	PLATE
PS	PRESSED STEEL
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
RAD	RADIUS
RC	REINFORCED CONCRETE
RD	ROOF DRAIN
REIN	REINFORCING
REQD	REQUIRED
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
RW	REINFORCED WITH
RWL	RAIN WATER LEADER
SCW	SOLID CORE WOOD
SDL	SUPERIMPOSED DEAD LOAD
SECT	SECTION
SF	STEPPED FOOTING
SM	SIMILAR
SOG	SLAB ON GRADE
SPF	SPRUCE-PINE-FIR
SPMOD	STANDARD PROCTOR MAXIMUM DRY DENSITY
ST	STRAIGHT
STAGG	STAGGERED
STRIP	STRIP
T	THICKNESS
TOP	TOP
TC	ELEVATION TOP OF CAISSON
TCE	TOP CHORD EXTENSION
TEMP	TEMPERATURE
T EW	TOP EACH WAY
TF	FACTORED TENSILE FORCE
TJ	TOP JOIST
TLL	TOP LOWER LAYER
T/O	TOP OF
TUL	TOP UPPER LAYER
TYP	TYPICAL
UC	UNDER COUNTER
UNO	UNLESS NOTED OTHERWISE
UPT	UPTURNED
US	UNDERSIDE
VB	VINYL BASE
VBF	VERTICAL BRACED FRAME
VEF	VERTICAL EACH FACE
VERT	VERTICAL
VF	FACTORED SHEAR FORCE
VSC	VERTICALLY SLOTTED CONNECTION
W	WIDE FLANGE BEAM
WG	WIRE GLASS
WIR	WASHROOM
WT	STRUCTURAL TEE
WVF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH



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No.	Issuance Description	YYMMDD
1	ISSUED FOR BUILDING PERMIT AND TENDER	221025

CONCURRENTLY ISSUED FOR:

TENDER

DRAWINGS "ISSUED FOR TENDER" MAY BE PRELIMINARY IN NATURE, AND AS SUCH ARE SUBJECT TO CHANGE PRIOR TO COMPLETION FOR PERMIT APPLICATION / CONSTRUCTION.

ISSUED FOR:

BUILDING PERMIT

DRAWINGS "ISSUED FOR BUILDING PERMIT" ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SUCH TIME AS A BUILDING PERMIT HAS BEEN ISSUED BY THE CHIEF BUILDING OFFICIAL, AND A COPY OF THE APPROVED PERMIT DRAWINGS HAS BEEN PROVIDED TO THE CONSULTANT.

Client: Formworks, Inc. Architects
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www.formworksinc.ca

Project: **TECUMSETH BEETON DAYCARE**
43 PATTERSON ST. BEETON, ON

Drawing: **TYPICAL DETAILS**

Project No. 234-073-22	Designed by: JL	Checked by: JL
Time Stamp: 10/25/2022 11:41:56 AM	Drawn by: MK	Approved by: JL
Orientation	Stamp	

Drawing No. **S-002**

DEMOLITION NOTES:

1. CONTRACTOR TO MEASURE AND VISUALLY INSPECT ALL LOAD-BEARING WALLS, STRUCTURAL ROOF FRAMING MEMBERS PRIOR TO COMMENCEMENT OF WORK.
2. ALL SELECTIVE DEMOLITION WORK SHALL BE SITE VERIFIED PRIOR TO DEMOLITION.
3. MAKE GOOD ALL AFFECTED SURFACES AND PREPARE FOR NEW FINISHES.
4. ALL DIMENSIONS AND EXISTING MEMBER SIZES TO BE SITE VERIFIED BY THE CONTRACTOR PRIOR TO DEMOLITION.
5. DISCONNECT AND MAKE SAFE ALL MECHANICAL AND ELECTRICAL CONNECTIONS & ITEMS PRIOR TO DEMOLITION OF WALLS.
6. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE DEMOLISHED.
7. NO ADDITIONAL OPENINGS OR PENETRATION ARE PERMITTED WITHOUT WRITTEN APPROVAL FROM GERRITS ENGINEERING LIMITED.

FALSEWORK AND SHORING NOTE:

CONTRACTOR TO DESIGN, SUPPLY AND INSTALL ALL NECESSARY TEMPORARY FALSEWORK AND SHORING PRIOR TO INSTALLING NEW LINTELS. SHORING DESIGN TO BE REVIEWED AND SEALED BY A LICENSED PROFESSIONAL STRUCTURAL ENGINEER AND SUBMITTED FOR REVIEW WELL IN ADVANCE OF CONSTRUCTION.

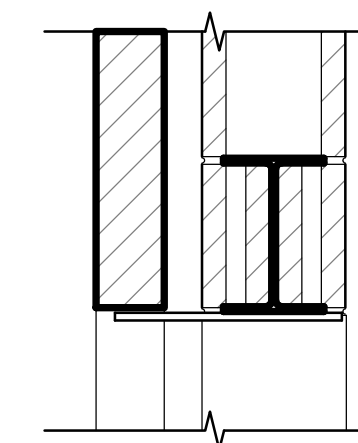
SHORING TO BE DESIGNED FOR THE FOLLOWING WALL LOADS:

SNOW LOAD OR LIVE LOAD = 7.9kN/m
DEAD LOAD = 11kN/m

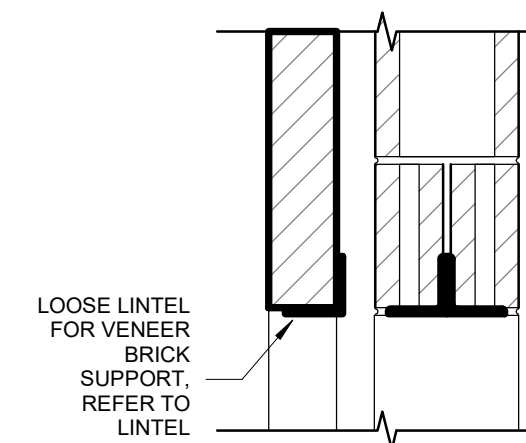
MASONRY WALL NOTES:

1. MAKE GOOD ALL EXISTING MASONRY FOLLOWING LINTEL INSTALLATION.

LINTEL SCHEDULE			
MARK	WALL TYPE	LINTEL SIZE	NOTES
L-1	190 MASONRY BLOCK	W200x27 + 6.4 CONTINUOUS PLATE	1. SEE LINTEL DIAGRAM. 2. 200 [8"] BEARING ON EACH SIDE PLUS 1/2"x7-1/2" x 8" BASE PLATE AND 2-1/2" DIA. ANCHOR RODS EACH END 3. GROUT SOLID MIN. TWO COURSES BELOW LINTEL BEARING, UNLESS NOTED OTHERWISE
L-2	190 MASONRY BLOCK	3 - L152x89x7.9 (LLV)	1. SEE LINTEL DIAGRAM. 2. 200 [8"] BEARING ON EACH SIDE. 3. GROUT SOLID MIN. TWO COURSES BELOW LINTEL BEARING, UNLESS NOTED OTHERWISE
L-3	190 MASONRY BLOCK	3-L89x89x7.9 (LLV)	1. SEE LINTEL DIAGRAM. 2. 200 [8"] BEARING ON EACH SIDE. 3. GROUT SOLID MIN. TWO COURSES BELOW LINTEL BEARING, UNLESS NOTED OTHERWISE

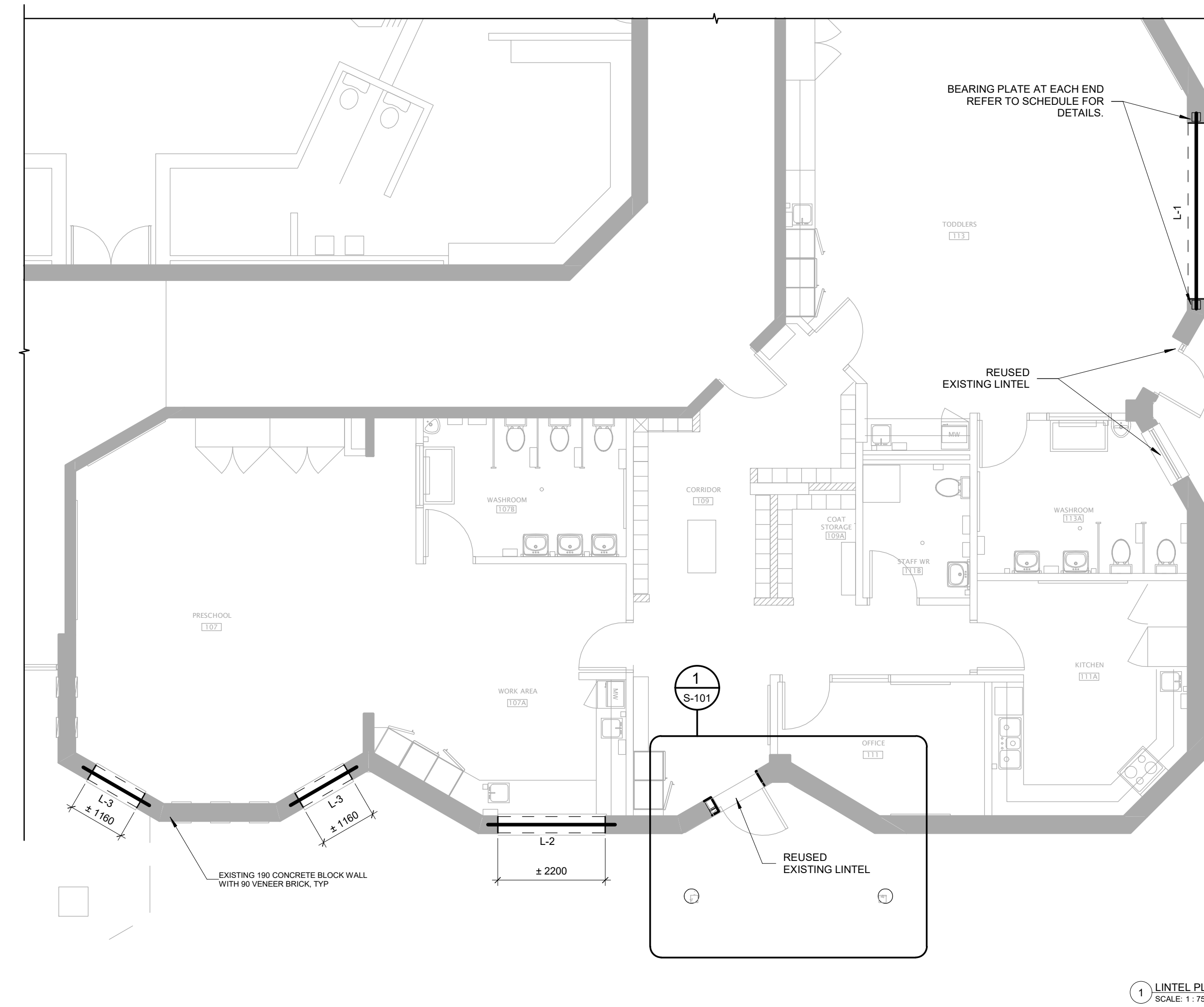
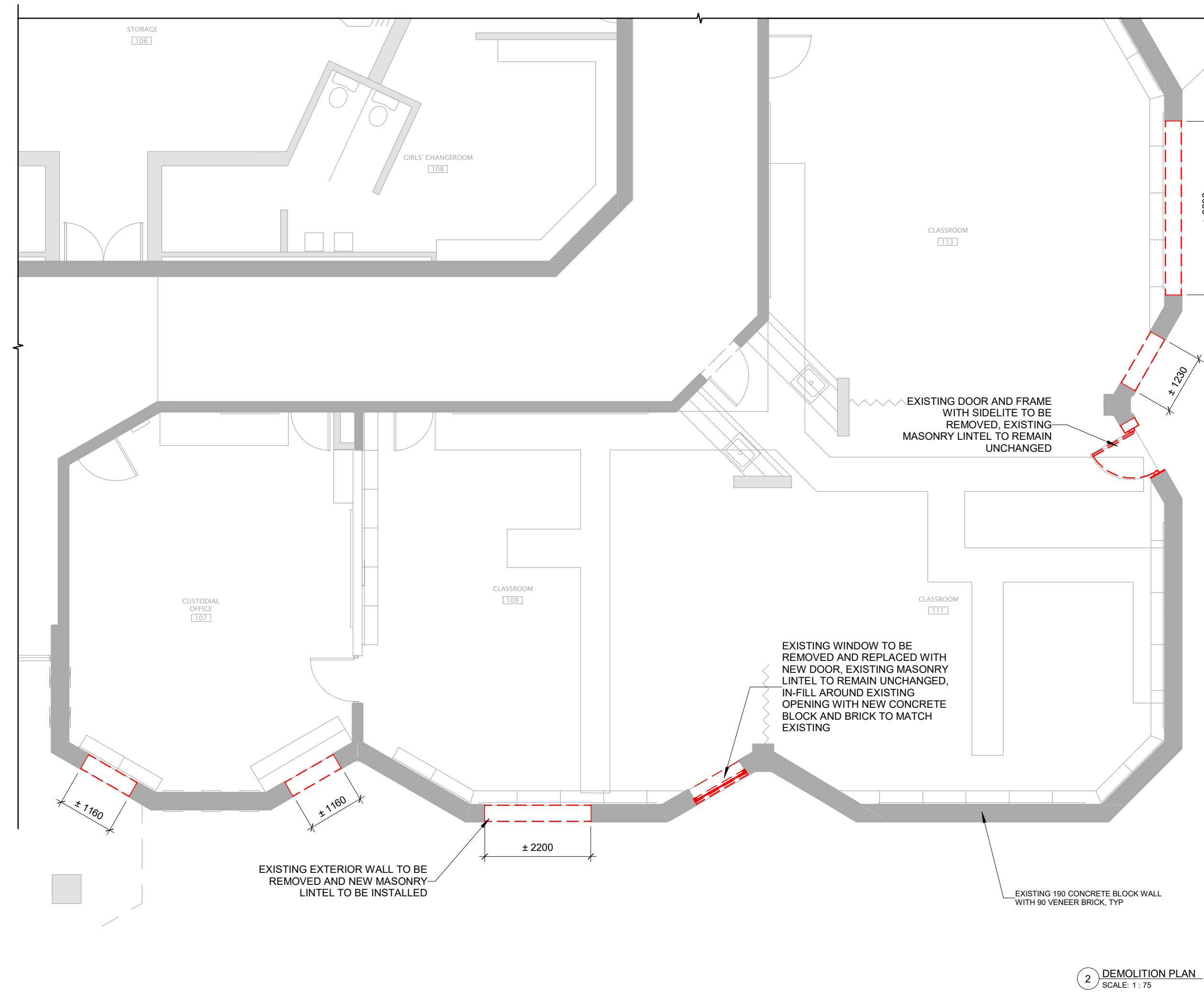


LINTEL: L-1



LOOSE LINTEL FOR VENEER BRICK SUPPORT. REFER TO LINTEL SCHEDULE

LINTEL: L-2 & L-3



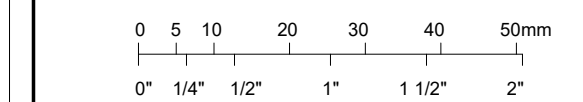
Gerrits
ENGINEERING

222 Mapleview Drive West, Suite 300
Barrie, ON L4N 9E7 Canada
Tel: 705.737.3303
Fax: 705.737.1772
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No.	Issuance Description	YYMMDD
1	ISSUED FOR BUILDING PERMIT AND TENDER	221025

CONCURRENTLY ISSUED FOR:
TENDER

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ISSUED FOR:
BUILDING PERMIT

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Client
Formworks, Inc. Architects
63 Collier Street Barrie, Ontario L4M 1G7
ph: 705.737.3305 fax: 705.730.1107
www.formworksinc.ca

Project
TECUMSETH BEETON DAYCARE

43 PATTERSON ST. BEETON, ON

Demolition and:
DEMOLITION AND LINTEL PLANS

Project No. 234-073-22
Time Stamp: 10/25/2022 11:41:56 AM
Orientation

Designed by: JL
Checked by: JL
Drawn by: MK
Approved by: JL
Stamp

Stamp

Drawing No. **S-100**

NOTES:

1. ROOF DATUM ELEVATION IS +3310 FROM FINISHED FLOOR ELEVATION. THIS REPRESENTS U/S OF STEEL DECK ELEVATION.

2. THE DISTANCE TO THE U/S OF THE DECK FROM DATUM ELEVATION IS NOTED AS:

±XXXmm

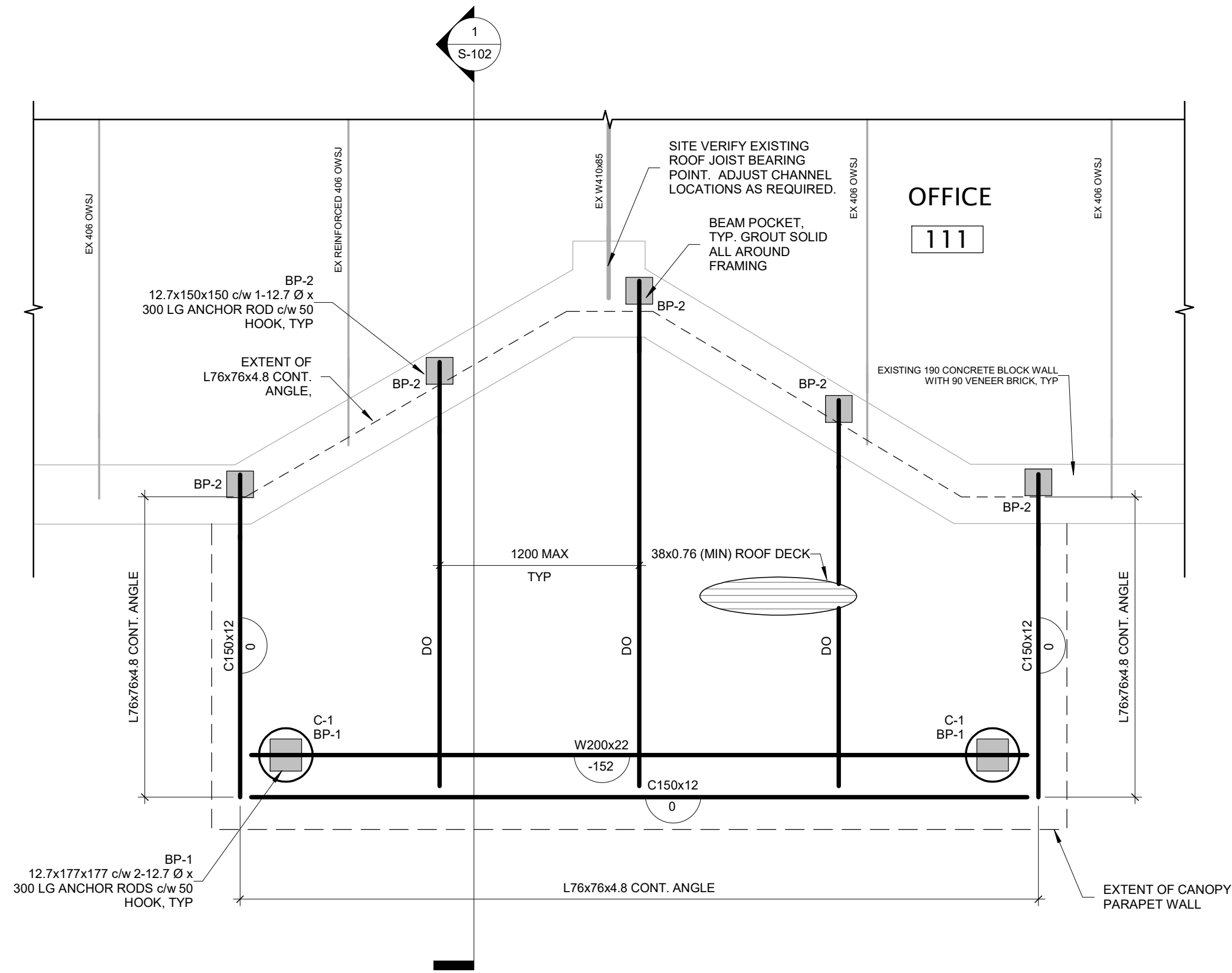
3. DISTANCE TO T/O BEAMS FROM DATUM ELEVATION IS NOTED AS:

+XXmm
-XXmm

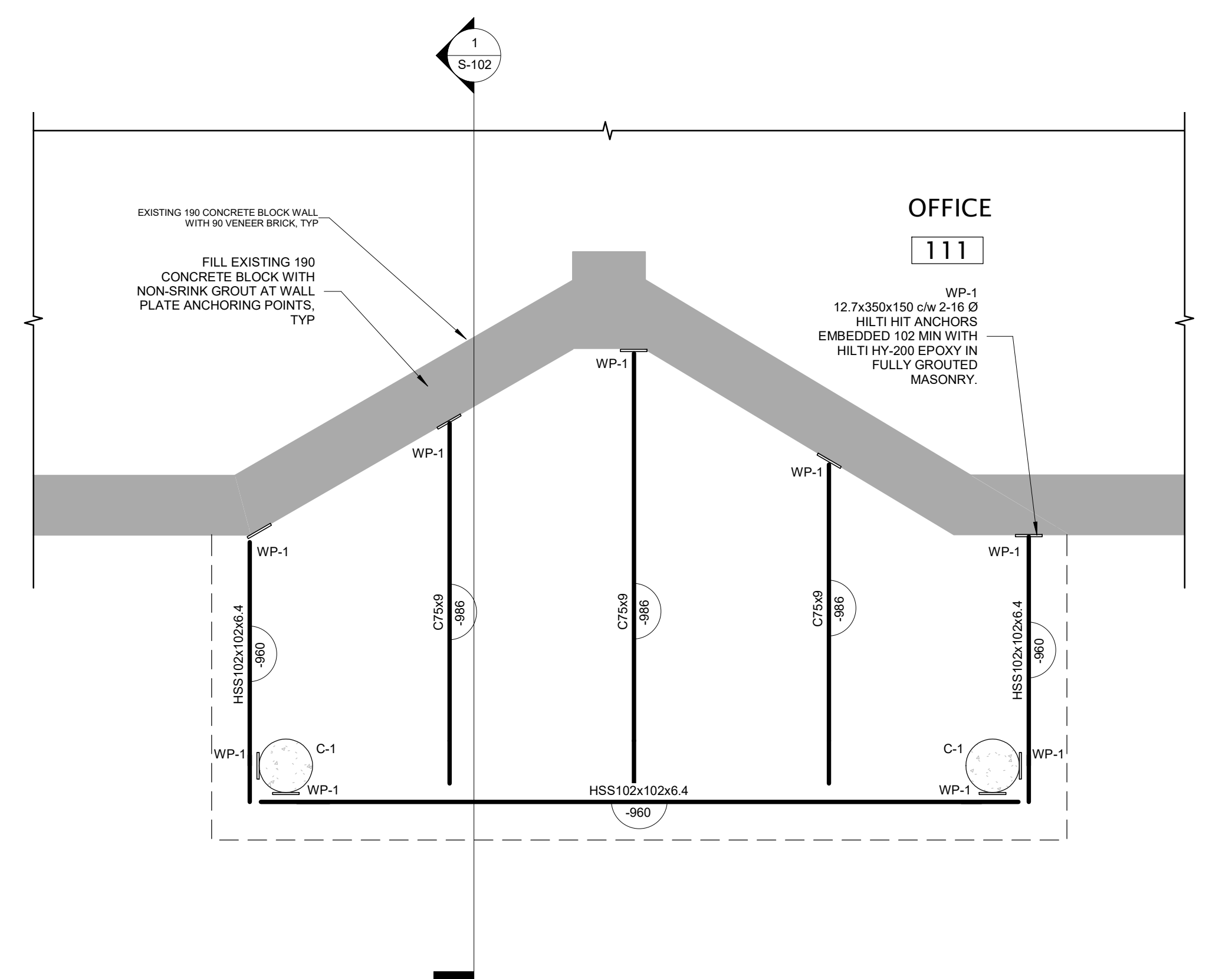
4. TOP OF STEEL BEAMS ARE AT UNDERSIDE OF STEEL DECK, EXCEPT WHERE BEAMS SUPPORT OWSJ. SET TOP OF BEAMS AT UNDERSIDE OF JOIST SHOE.

5. PROVIDE CONTINUOUS BENT PLATES / ANGLES WHERE REQUIRED FOR SUPPORT OF DECK.

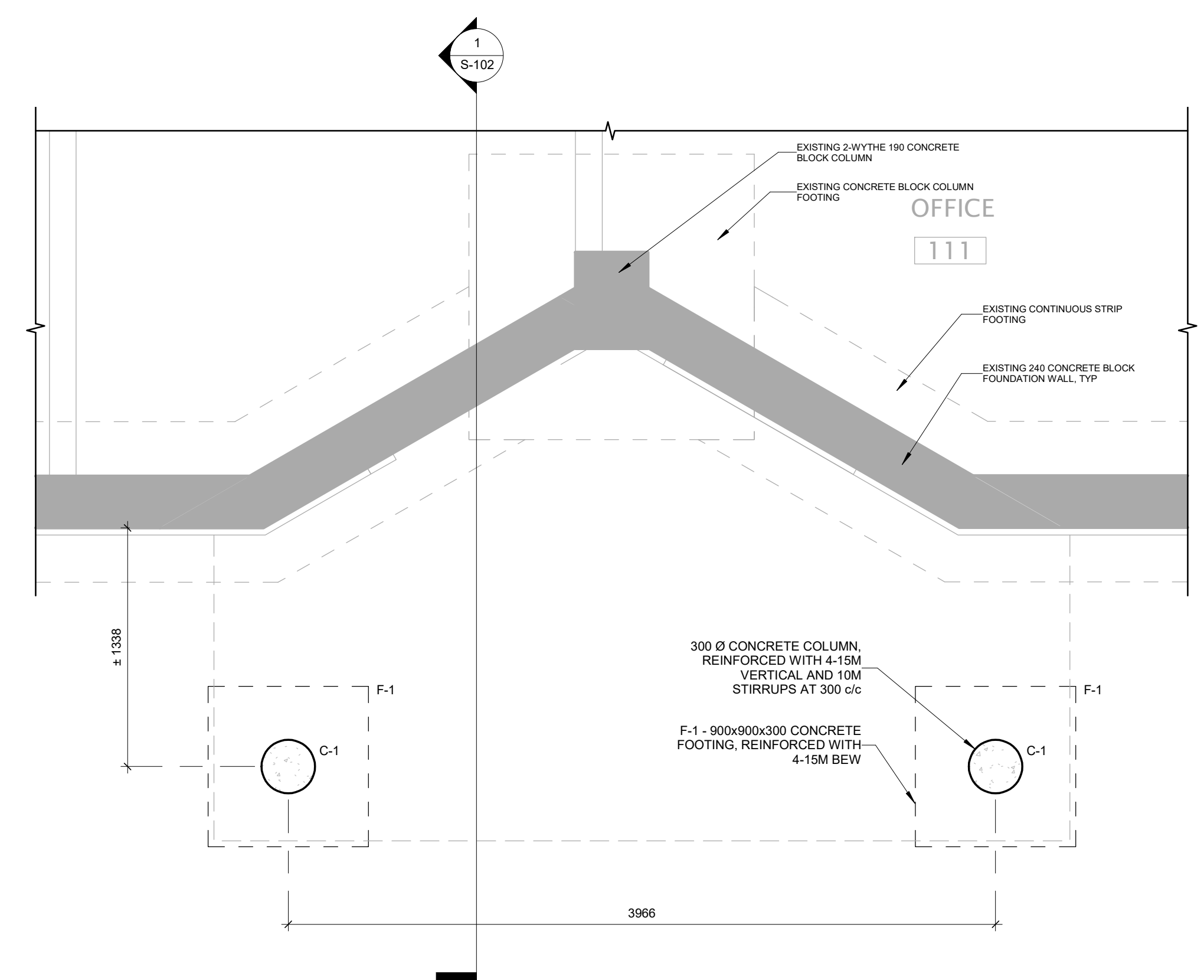
6. ROOF DRAINS NOTED ON FRAMING PLAN AS 'RD'



2 ENTRANCE CANOPY ROOF FRAMING PLAN
SCALE: 1:25



3 ENTRANCE CANOPY MID-HEIGHT FRAMING PLAN
SCALE: 1:25

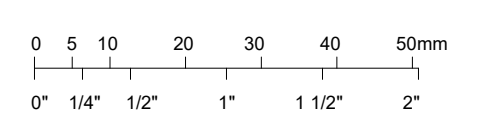


1 ENTRANCE CANOPY FOUNDATION PLAN
SCALE: 1:25



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No.	Issuance Description	YYMMDD
1	ISSUED FOR BUILDING PERMIT AND TENDER	2210/25

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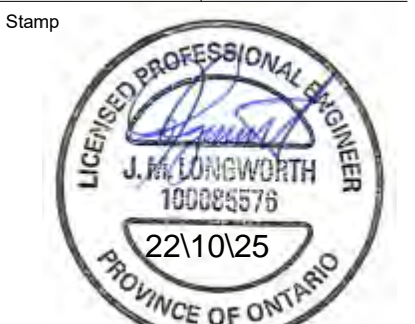
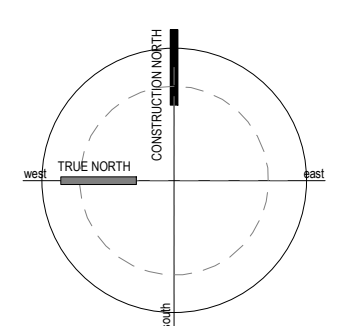
Client
Formworks, Inc. Architects
63 Collier Street Barrie, Ontario L4M 1G7
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www.formworksinc.ca

Project
TECUMSETH BEETON DAYCARE

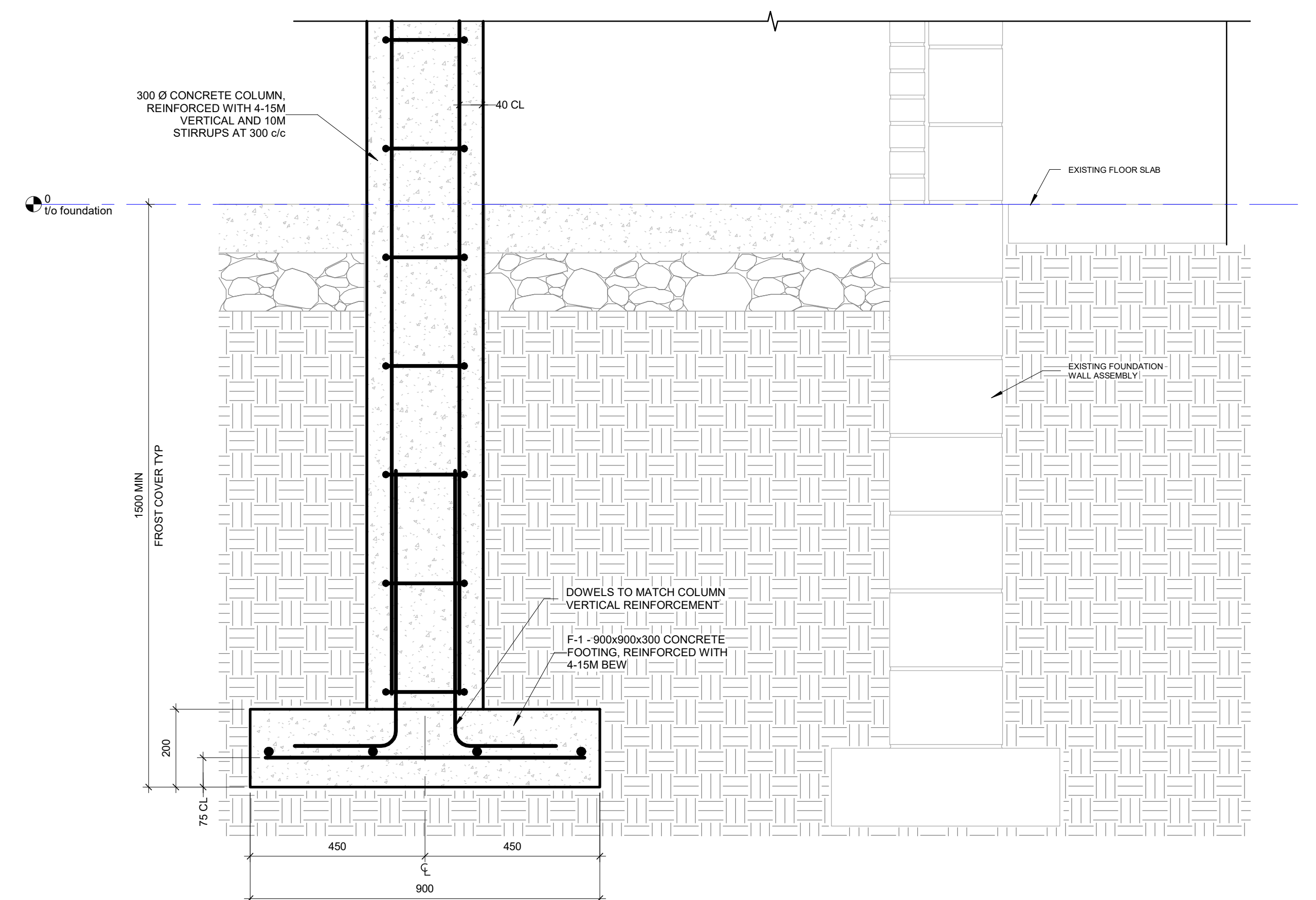
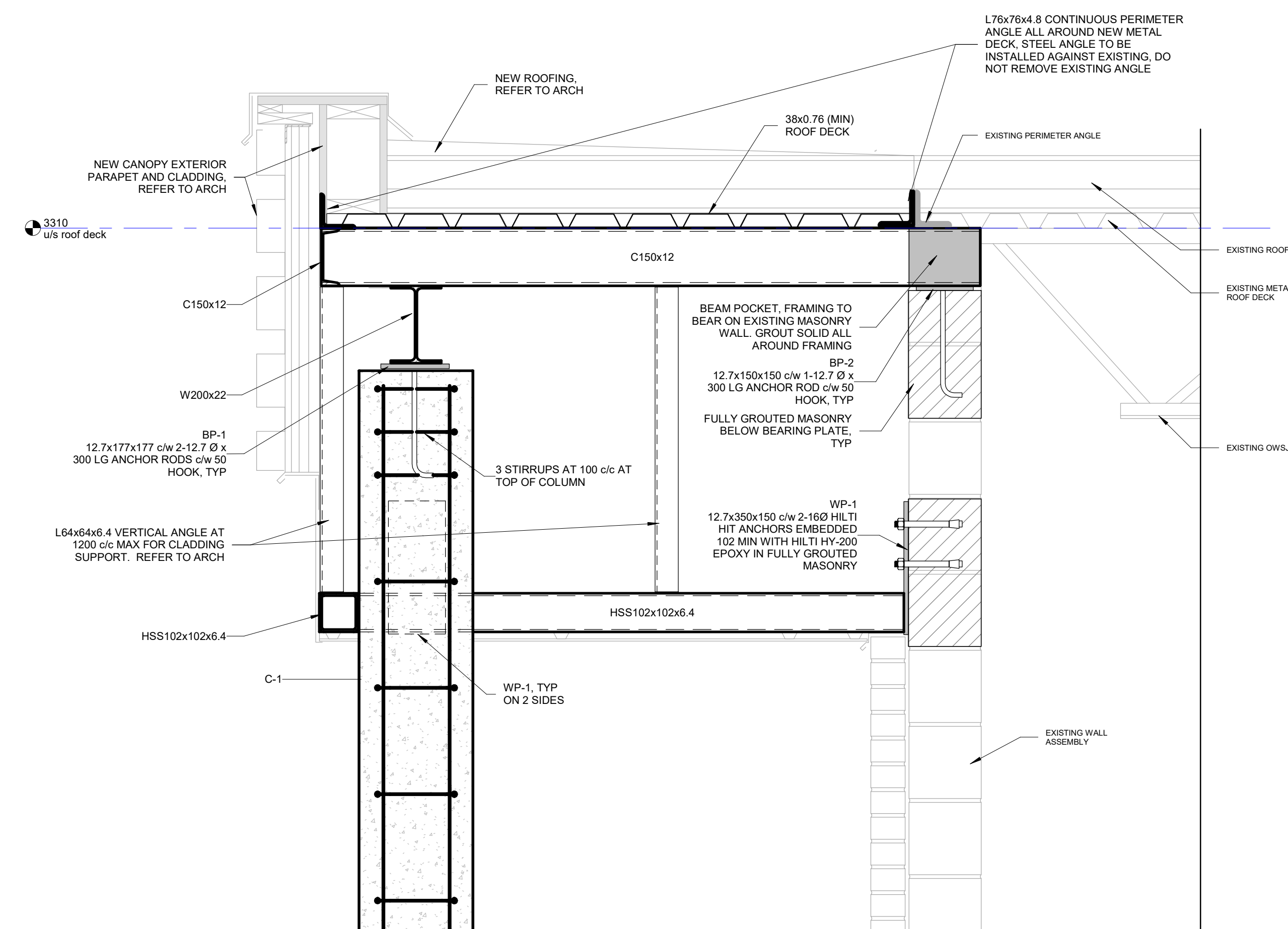
43 PATTERSON ST. BEETON, ON

ENTRANCE CANOPY PLANS

Project No.	234-073-22	Designed by:	JL	Checked by:	JL
Time Stamp:	10/25/2022 11:41:57 AM	Drawn by:	MK	Approved by:	JL
Orientation		Stamp			



Drawing No. **S-101**

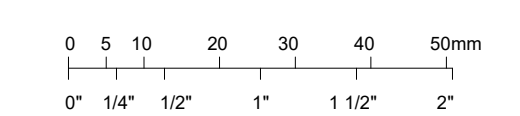


1 ENTRANCE CANOPY FRAMING SECTION
SCALE: 1:10

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ENGINEERING

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No.	Issuance Description	YYMMDD
1	ISSUED FOR BUILDING PERMIT AND TENDER	221025

CONCURRENTLY ISSUED FOR:
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ph: 705.737.3305 fax: 705.730.1107
www.formworksinc.ca



Project
TECUMSETH BEETON DAYCARE

43 PATTERSON ST. BEETON, ON

Drawing:
ENTRANCE CANOPY SECTION

Project No.	234-073-22	Designed by:	JL	Checked by:	JL
Time Stamp:	10/25/2022 11:41:57 AM	Drawn by:	MK	Approved by:	JL
Orientation		Stamp			

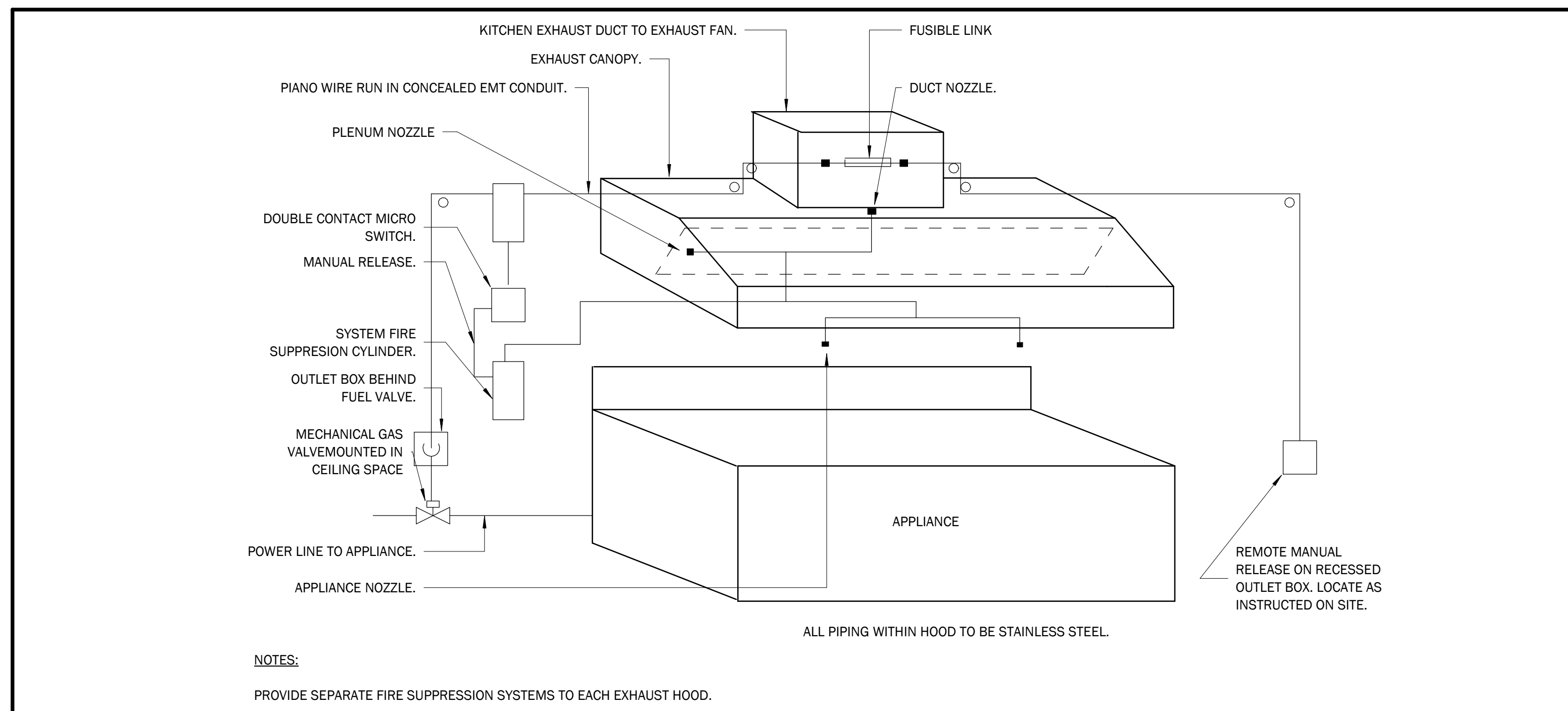


Drawing No. **S-102**

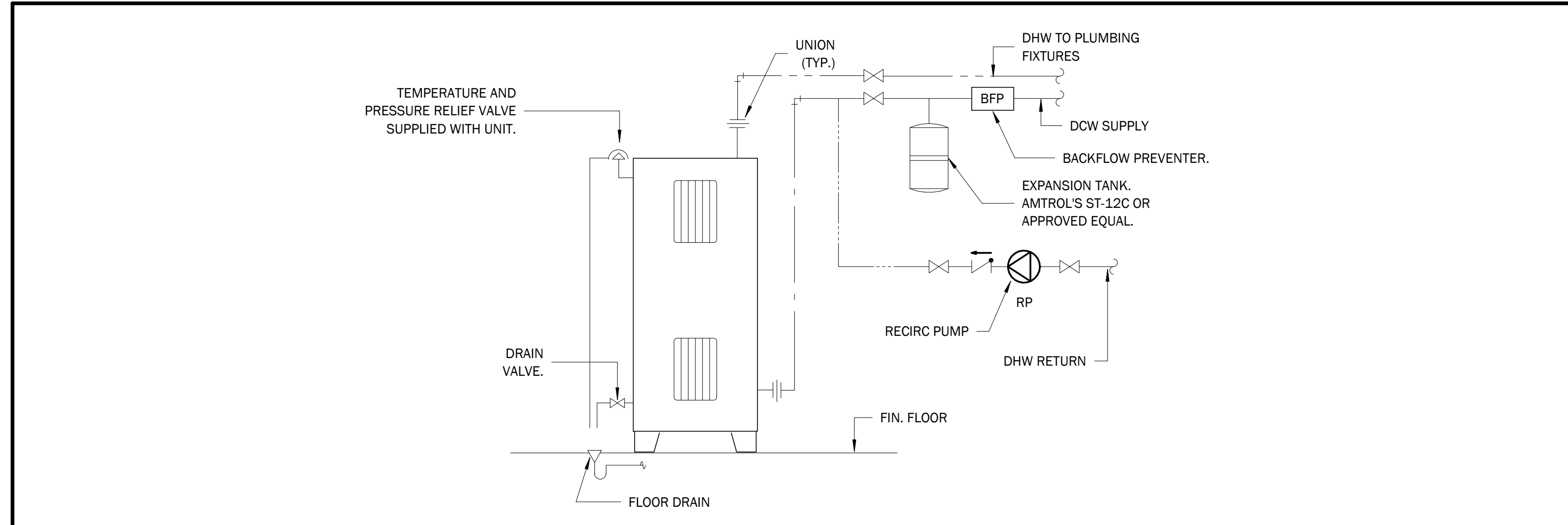
PUMP SCHEDULE									
TAG	MAKE	MODEL	DESIGN FLOW RATE	WPD	ELECTRICAL			HP	REMARKS
					V	Ø	FREQ.		
RP1	Armstrong Fluid Technology	Astro Express 2	0.2 L/s	10.5 kPa	120 V	1	60 Hz	0.04 hp	NEW HOT WATER RECIRCULATION PUMP C/W SHUT-OFF VALVES, CHECK VALVE AND STRAINER.

DIFFUSER AND GRILLE SCHEDULE			
TAG	MAKE	MODEL	REMARKS
DG	Price Industries	STG1	DOOR GRILLE. COORDINATE FINISH WITH ARCHITECT.
EG	Price Industries	80 Series	EGG CRATE RETURN/EXHAUST GRILLE. C/W WITH BALANCING DAMPER IN DUCTED RETURN AND EXHAUST APPLICATIONS. LAY-IN. COORDINATE FINISH WITH ARCHITECT.
SD	Price Industries	SCD Series	600x600 SQUARE CONE DIFFUSER. LAY-IN. COORDINATE FINISH WITH ARCHITECT.
SD2	Price Industries	SCD Series	300x300 SQUARE CONE DIFFUSER. LAY-IN. COORDINATE FINISH WITH ARCHITECT.

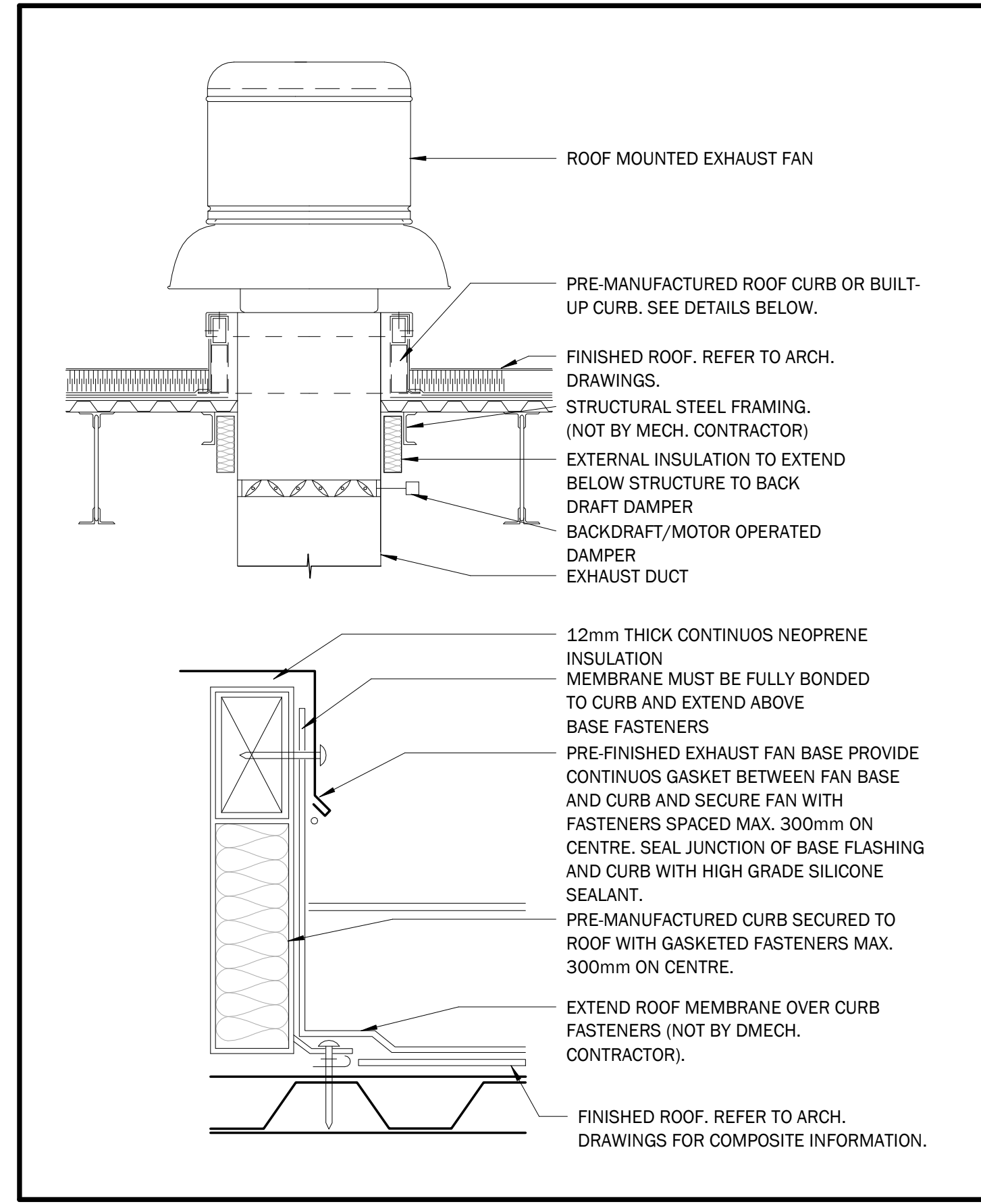
FAN SCHEDULE									
TAG	MAKE	MODEL	AIR FLOW RATE	ESP	ELECTRICAL				REMARKS
					V	Ø	FREQ.	MOTOR HP	
EF6	Greenheck	G-070-VG-1/10	75.0 L/s	65.0 Pa	120 V	1	60 Hz	0.10 hp	NEW ROOF MOUNTED EXHAUST FAN C/W ROOF CURB, WEATHERPROOF DISCONNECT, BACKDRAFT DAMPER, INTERLOCKED WITH BAS.
EF7	Greenheck	G-070-VG-1/10	75.0 L/s	65.0 Pa	120 V	1	60 Hz	0.10 hp	NEW ROOF MOUNTED EXHAUST FAN C/W ROOF CURB, WEATHERPROOF DISCONNECT, BACKDRAFT DAMPER, INTERLOCKED WITH BAS.



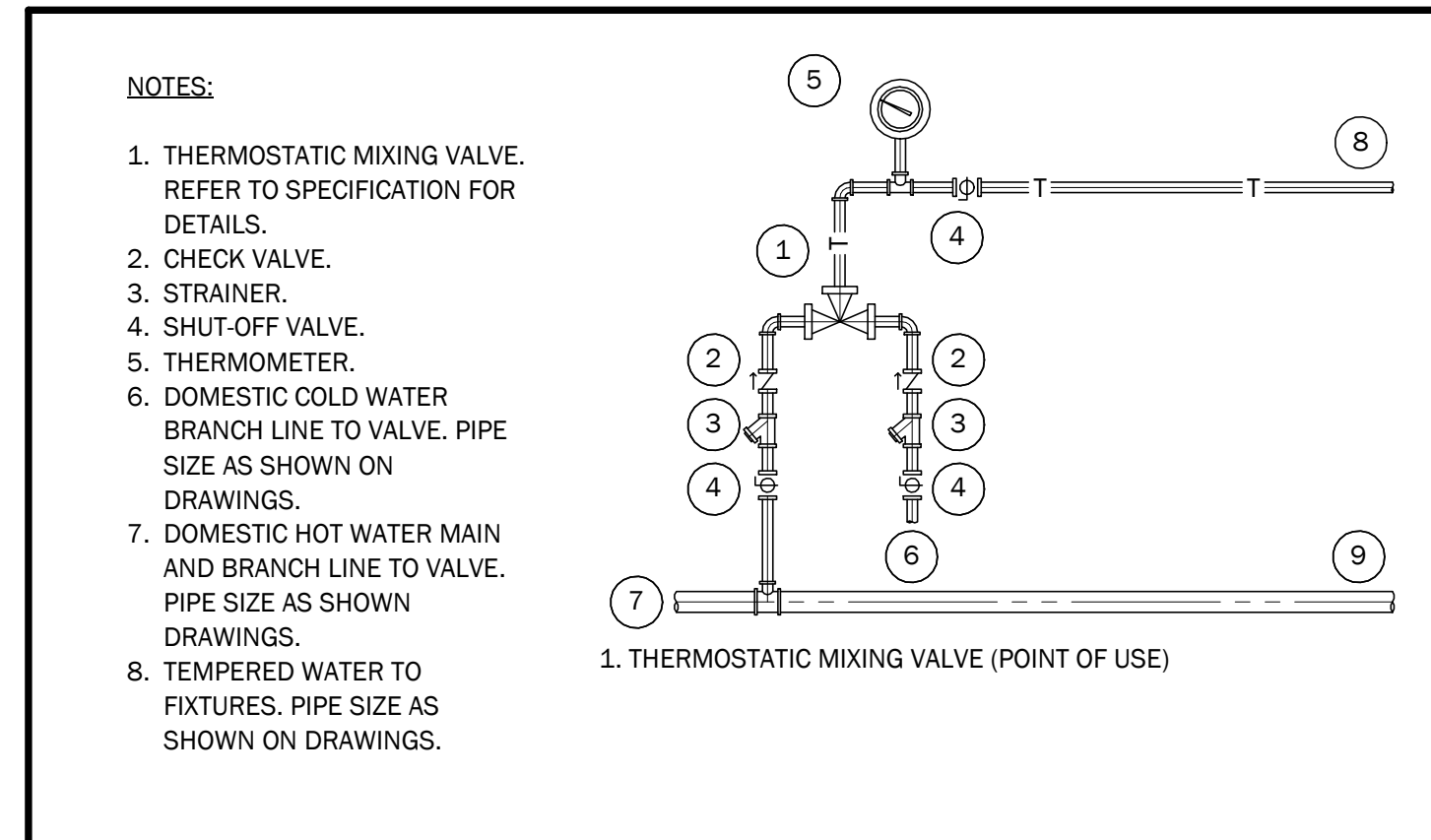
1 SCHEMATIC OF FIRE SUPPRESSION SYSTEM
M.100 N.T.S.



2 HOT WATER TANK INSTALLATION DETAIL
M.100 N.T.S.



3 ROOF MOUNTED EXHAUST FAN
M.100 N.T.S.



4 THERMOSTATIC MIXING VALVE
M.100 N.T.S.

MECHANICAL LEGEND	
ITEM	DESCRIPTION
	SUPPLY AIR DIFFUSER
	EGG CRATE GRILLE
	SUPPLY AIR GRILLE
	SUPPLY DUCT UP
	RETURN DUCT UP
	EXHAUST DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT DOWN
	EXHAUST DUCT DOWN
	ACOUSTICALLY LINED DUCT
	EXTERNALLY INSULATED DUCT
	HOT WATER SUPPLY
	HOT WATER RETURN
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	HOT WATER RECIRCULATION
	BURIED SANITARY/STORM/VENT PIPING OR IN CEILING OF FLOOR BELOW
	SANITARY/STORM/VENT PIPING ABOVE GRADE/OVERHEAD
	CONDENSATE DRAIN
	HYDRONIC DUCT COIL
	FLOOR/FUNNEL FLOOR/ROOF DRAIN.
	EXISTING EQUIPMENT, PIPING OR DUCTWORK TO BE DEMOLISHED.
	EXISTING EQUIPMENT, PIPING OR DUCTWORK TO REMAIN.

ABBREVIATIONS	
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
RHW	DOMESTIC HOT WATER RECIRCULATION
HB	HOSE BIBB
RWL	RAIN WATER LEADER
HWT	HOT WATER TANK
RTU	ROOFTOP UNIT
AHU	AIR HANDLING UNIT
FCU	FAN COIL UNIT
EF	EXHAUST FAN
RH	RADIANT HEATER
BBH	BASEBOARD HEATER
CUH	CABINET UNIT HEATER
C.O.	CLEAN OUT
B.C.O.	BUILDING CLEAN OUT
CTE	CONNECT TO EXISTING
E	EXISTING TO REMAIN
R	EXISTING TO BE REMOVED
ER	EXISTING TO BE RELOCATED
RP	RELOCATED POSITION

DRAWING LIST	
DWG No.	DRAWING NAME
M.100	MECHANICAL LEGEND, SCHEDULES, DETAILS AND DRAWING LIST
M.200	DEMOLITION PART PLANS, SCHEDULES AND DETAILS
M.300	PROPOSED PART PLANS
M.400	PROPOSED PART PLANS

ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL BY-LAWS AND CODES HAVING JURISDICTION OVER THIS SITE LOCATION. ALL DIMENSIONS AND INFORMATION SHALL BE CHECKED AND VERIFIED ON THE JOB AND ANY VARIANCES OR DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BY PHONE AND SUBSEQUENT WRITTEN CONFIRMATION PRIOR TO COMMENCEMENT OF THE WORK.

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SIGNED: DATE: OCTOBER 27, 2022

NO.	ISSUES/REVISIONS	DATE
4	ISSUED FOR TENDER	OCTOBER 27, 2022
3	ISSUED FOR PERMIT	OCTOBER 14, 2022
2	80% REVIEW COORDINATION	SEPTEMBER 1, 2022 AUGUST 23, 2022

JAA
John Angus & Associates Inc.
MEADOWVALE CORPORATE CENTRE
2000 ARGENTIA RD., PLAZA 4, Suite 100
MISSISSAUGA, Ontario, L5N 1W1
T: 416-422-0999
MECHANICAL ENGINEERING FOR BIM

NORTH: SEAL:

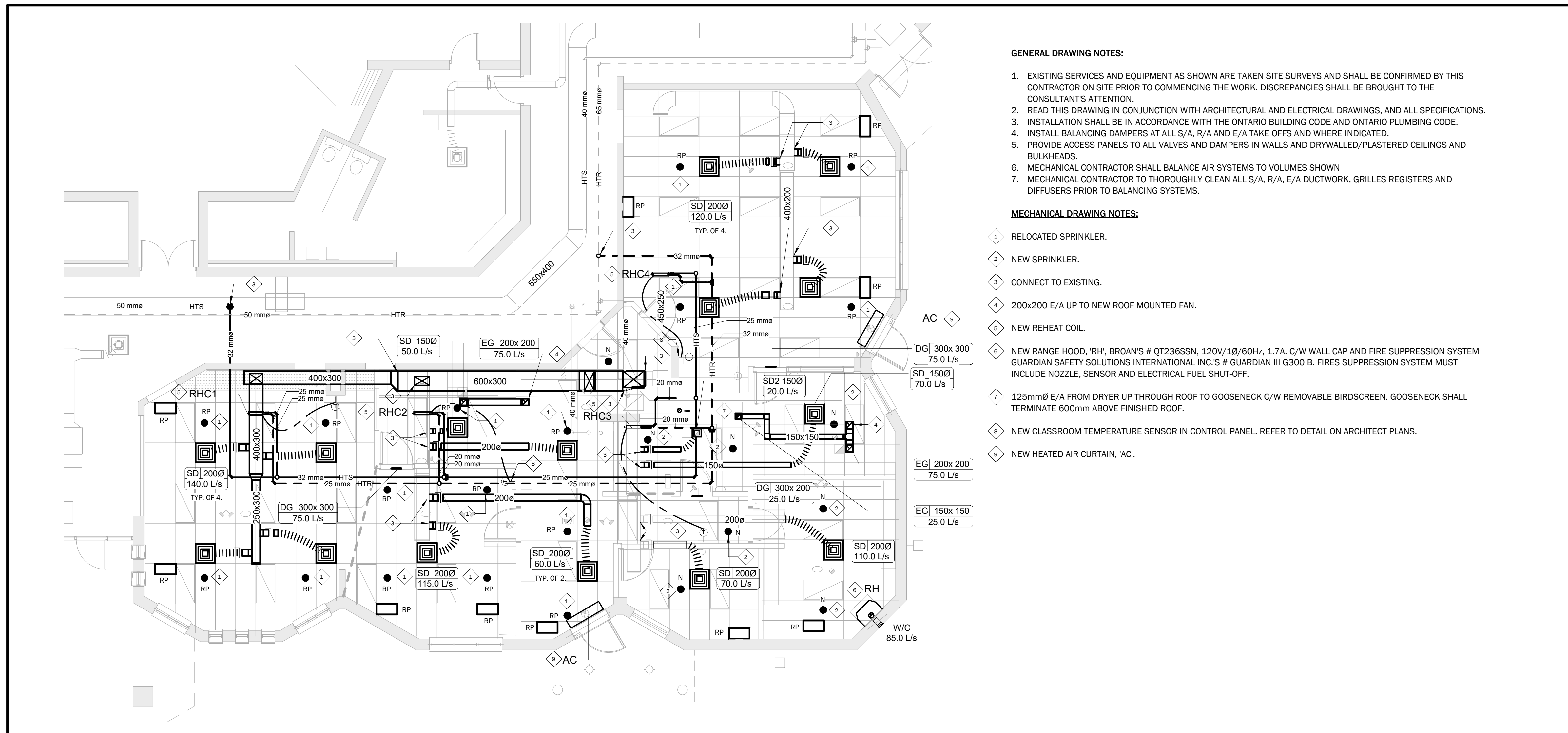
PROJECT NAME:
**TECUMSETH BEETON
ELEMENTARY SCHOOL CHILD
INTERIOR RENOVATION NO.
2022-13062T**
43 Patterson St Beeton, ON LOG 1A0

SHEET NAME:
**MECHANICAL LEGEND,
SCHEDULES, DETAILS
AND DRAWING LIST**

DRAWN BY: **WDV** SCALE: **As indicated**
CHECKED BY: **GJM** DATE: **OCTOBER 27, 2022**

PROJECT NUMBER:
22-3090

SHEET NUMBER:
M.100



1 GROUND FLOOR RCP PROPOSED PART PLAN
M.300 1:75

- GENERAL DRAWING NOTES:**
- EXISTING SERVICES AND EQUIPMENT AS SHOWN ARE TAKEN SITE SURVEYS AND SHALL BE CONFIRMED BY THIS CONTRACTOR ON SITE PRIOR TO COMMENCING THE WORK. DISCREPANCIES SHALL BE BROUGHT TO THE CONSULTANT'S ATTENTION.
 - READ THIS DRAWING IN CONJUNCTION WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS, AND ALL SPECIFICATIONS.
 - INSTALLATION SHALL BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ONTARIO PLUMBING CODE.
 - INSTALL BALANCING DAMPERS AT ALL S/A, R/A AND E/A TAKE-OFFS AND WHERE INDICATED.
 - PROVIDE ACCESS PANELS TO ALL VALVES AND DAMPERS IN WALLS AND DRYWALLED/PLASTERED CEILINGS AND BULKHEADS.
 - MECHANICAL CONTRACTOR SHALL BALANCE AIR SYSTEMS TO VOLUMES SHOWN
 - MECHANICAL CONTRACTOR TO THOROUGHLY CLEAN ALL S/A, R/A, E/A DUCTWORK, GRILLES REGISTERS AND DIFFUSERS PRIOR TO BALANCING SYSTEMS.

- MECHANICAL DRAWING NOTES:**
- 1 RELOCATED SPRINKLER.
 - 2 NEW SPRINKLER.
 - 3 CONNECT TO EXISTING.
 - 4 200x200 E/A UP TO NEW ROOF MOUNTED FAN.
 - 5 NEW REHEAT COIL.
 - 6 NEW RANGE HOOD, 'RH', BROAN'S # QT236SSN, 120V/1Ø/60Hz, 1.7A, C/W WALL CAP AND FIRE SUPPRESSION SYSTEM GUARDIAN SAFETY SOLUTIONS INTERNATIONAL INC.'S # GUARDIAN III G300-B. FIRES SUPPRESSION SYSTEM MUST INCLUDE NOZZLE, SENSOR AND ELECTRICAL FUEL SHUT-OFF.
 - 7 125mmØ E/A FROM DRYER UP THROUGH ROOF TO GOOSENECK C/W REMOVABLE BIRDSCREEN. GOOSENECK SHALL TERMINATE 600mm ABOVE FINISHED ROOF.
 - 8 NEW CLASSROOM TEMPERATURE SENSOR IN CONTROL PANEL. REFER TO DETAIL ON ARCHITECT PLANS.
 - 9 NEW HEATED AIR CURTAIN, 'AC'.

ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL BY-LAWS AND CODES HAVING JURISDICTION OVER THIS SITE LOCATION. ALL DIMENSIONS AND INFORMATION SHALL BE CHECKED AND VERIFIED ON THE JOB AND ANY VARIANCES OR DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BY PHONE AND SUBSEQUENT WRITTEN CONFIRMATION PRIOR TO COMMENCEMENT OF THE WORK.

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SIGNED: *[Signature]* DATE: OCTOBER 27, 2022

No.	ISSUES/REVISIONS	DATE
4	ISSUED FOR TENDER	OCTOBER 27, 2022
3	ISSUED FOR PERMIT	OCTOBER 14, 2022
2	60% REVIEW	SEPTEMBER 1, 2022
1	COORDINATION	AUGUST 23, 2022

No.	ISSUES/REVISIONS	DATE
4	ISSUED FOR TENDER	OCTOBER 27, 2022
3	ISSUED FOR PERMIT	OCTOBER 14, 2022
2	60% REVIEW	SEPTEMBER 1, 2022
1	COORDINATION	AUGUST 23, 2022

JAA
John Angus & Associates Inc.
First Canadian Place
100 King Street West, Suite 5700
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T: 416-422-0999
MECHANICAL ENGINEERING FOR BIM

NORTH:

PROJECT NAME:
**TECUMSETH BEETON
ELEMENTARY SCHOOL CHILD
INTERIOR RENOVATION NO.
2022-13062T**
43 Patterson St Beeton, ON L0G 1A0

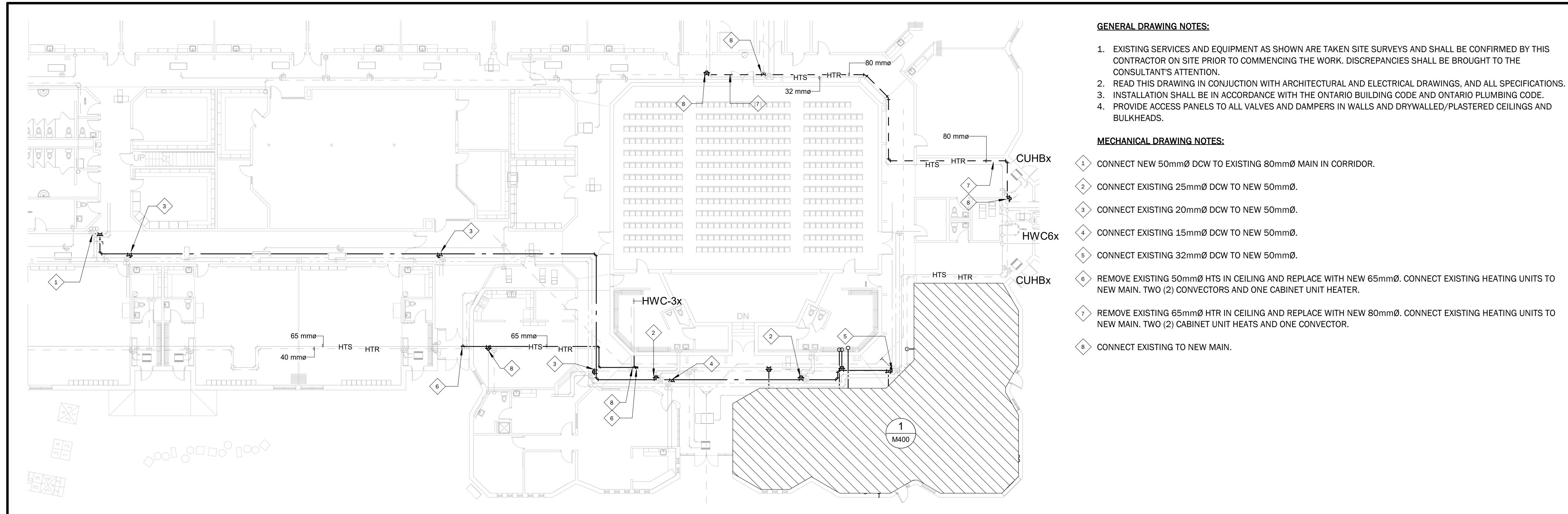
SHEET NAME:
**PROPOSED PART
PLANS**

DRAWN BY: **WDV** SCALE: **As indicated**

CHECKED BY: **GJM** DATE: **OCTOBER 27, 2022**

PROJECT NUMBER:
22-3090

SHEET NUMBER:
M.300



2 GROUND FLOOR - COLD WATER MAIN REPLACEMENT
M.300 1:200

- GENERAL DRAWING NOTES:**
- EXISTING SERVICES AND EQUIPMENT AS SHOWN ARE TAKEN SITE SURVEYS AND SHALL BE CONFIRMED BY THIS CONTRACTOR ON SITE PRIOR TO COMMENCING THE WORK. DISCREPANCIES SHALL BE BROUGHT TO THE CONSULTANT'S ATTENTION.
 - READ THIS DRAWING IN CONJUNCTION WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS, AND ALL SPECIFICATIONS.
 - INSTALLATION SHALL BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ONTARIO PLUMBING CODE.
 - PROVIDE ACCESS PANELS TO ALL VALVES AND DAMPERS IN WALLS AND DRYWALLED/PLASTERED CEILINGS AND BULKHEADS.
- MECHANICAL DRAWING NOTES:**
- 1 CONNECT NEW 50mmØ DCW TO EXISTING 80mmØ MAIN IN CORRIDOR.
 - 2 CONNECT EXISTING 25mmØ DCW TO NEW 50mmØ.
 - 3 CONNECT EXISTING 20mmØ DCW TO NEW 50mmØ.
 - 4 CONNECT EXISTING 15mmØ DCW TO NEW 50mmØ.
 - 5 CONNECT EXISTING 32mmØ DCW TO NEW 50mmØ.
 - 6 REMOVE EXISTING 50mmØ HTS IN CEILING AND REPLACE WITH NEW 65mmØ. CONNECT EXISTING HEATING UNITS TO NEW MAIN. TWO (2) CONVECTORS AND ONE CABINET UNIT HEATER.
 - 7 REMOVE EXISTING 65mmØ HTR IN CEILING AND REPLACE WITH NEW 80mmØ. CONNECT EXISTING HEATING UNITS TO NEW MAIN. TWO (2) CABINET UNIT HEATS AND ONE CONVECTOR.
 - 8 CONNECT EXISTING TO NEW MAIN.

TECUMSETH BEETON ELEMENTARY SCHOOL - INTERIOR CHILDCARE RENOVATIONS TENDER NO.

2022-13062T

43 PATTERSON STREET, BEETON, ONTARIO

SYMBOL	DESCRIPTION
	DETAIL NUMBER
	DRAWING NUMBER
	REVISION NUMBER
A	AMPS
AD	ACCESS DOOR
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
BBH	ELECTRIC BASEBOARD HEATER
C	CONDUIT
CL	CEILING MOUNTED
COF	COFFEE MACHINE
CS	CHARGING STATION
CV	CONVENTIONAL STYLE DEVICE
D	DEDICATED
DR	LAUNDRY DRYER
DW	DISHWASHER
E	EXISTING TO REMAIN
EM	EMERGENCY CIRCUIT
EP	ELECTRICAL SUITE PANEL
ER	EXISTING TO BE REMOVED
F	REFRIGERATOR
FF	FLOOR FEED
FL	FLOOR MOUNTED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HK	HOUSEKEEPING
HMT	HARMONIC MITIGATING TRANSFORMER
ICE	ICE MACHINE
IG	ISOLATED GROUND
JB	JUNCTION BOX
KW	KILOWATTS
LV	LOW VOLTAGE
MO	MOTOR OPERATED
MOD	MOTOR OPERATED DAMPER
MW	MICROWAVE
N	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
RH	RANGE HOOD
R	EXISTING TO BE RELOCATED
RA	RANGE
RIC	ROUGH IN AND CONNECT
RIO	ROUGH IN ONLY
RR	REMOVE AND REINSTALL
SC	SEPARATE CIRCUIT
TR	TAMPER RESISTANT
TYP	TYPICAL
U	UPS CIRCUIT
UC	UNDER CABINET MOUNTED
V	VOLTS
W	WATTS
WA	LAUNDRY WASHER
WAP	WIRELESS ACCESS POINT
WF	WALL FEED
WP	WEATHERPROOF
	SECTION NUMBER
	DRAWING NUMBER
	REVISION BUBBLE

SYMBOL	DESCRIPTION
RECEPTACLE TYPE	
	WALL MOUNTED TAMPER RESISTANT DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	HORIZONTAL LINE DENOTES TAMPER RESISTANT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R (T-SLOT)
	WALL MOUNTED SIMPLEX RECEPTACLE 250 VOLT, 15 AMP, 3ø CSA 15-15R, TAMPER RESISTANT WHERE POSSIBLE
	SPECIAL RECEPTACLE. TYPE AND DETAILS AS NOTED ON DRAWING. TAMPER RESISTANT WHERE POSSIBLE.
	WALL MOUNTED TAMPER RESISTANT SIMPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R
	WALL MOUNTED SIMPLEX RECEPTACLE 250 VOLT, 30 AMP, CSA 14-30R, TAMPER RESISTANT WHERE POSSIBLE
	WALL MOUNTED SIMPLEX RECEPTACLE 120 VOLT, 30 AMP, CSA 5-30R, TAMPER RESISTANT WHERE POSSIBLE
RECEPTACLE MOUNTING AND ELECTRICAL DETAILS	
	SLASH DENOTES ABOVE COUNTER TAMPER RESISTANT RECEPTACLE, TYPE AS INDICATED
	TAMPER RESISTANT RECEPTACLE WITH DEDICATED CIRCUIT, TYPE AS INDICATED
	TAMPER RESISTANT RECEPTACLE WITH GROUND FAULT PROTECTION, TYPE AS INDICATED
	TAMPER RESISTANT QUADPLEX RECEPTACLE, TYPE AS INDICATED
	TAMPER RESISTANT RECEPTACLE WITH SPLIT CIRCUIT, TYPE AS INDICATED
	CEILING MOUNTED DUPLEX RECEPTACLE, TYPE AS INDICATED
	CEILING MOUNTED SPECIAL RECEPTACLE. TYPE AND DETAILS AS NOTED ON DRAWING.
	CEILING MOUNTED QUADPLEX RECEPTACLE, TYPE AS INDICATED

SYMBOL	DESCRIPTION
	CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR
	CEILING MOUNTED RATE-OF-RISE HEAT DETECTOR
	WALL MOUNTED RATE-OF-RISE HEAT DETECTOR
	DUCT TYPE PHOTO-ELECTRIC SMOKE DETECTOR
	CEILING MOUNTED 135 F, FIXED TEMPERATURE HEAT DETECTOR
	LOW PRESSURE SUPERVISED SWITCH (SUPPLIED BY OTHERS)
	SPRINKLER SUPERVISED VALVE (SUPPLIED BY OTHERS)
	FIRE ALARM HORN (MH DENOTES MINI HORN)
	DOUBLE SIDED FIRE ALARM HORN
	FIRE ALARM HORN + STROBE
	CEILING MOUNTED FIRE ALARM STROBE
	WALL MOUNTED FIRE ALARM STROBE
	ISOLATION MODULE
	FIELD INSTALLED ADDRESSABLE CONTROL POINT
	FIRE ALARM SHUT DOWN
	FIRE ALARM START UP
	MANUAL PULL STATION
	ALARM FLOW SWITCH (SUPPLIED BY OTHERS)
	ALARM PRESSURE SWITCH (SUPPLIED BY OTHERS)
	FIRE ALARM PANEL CONTROL, DOP OR ANNUNCIATOR AS NOTED.
	END-OF-LINE RESISTOR TERMINATION
	FIELD INSTALLED MONITORING MODULE FOR ALARM OR SUPERVISORY
	ELECTROMAGNETIC DOOR HOLD-OPEN DEVICE

SYMBOL	DESCRIPTION	SYMBOL
	CEILING MOUNTED LINEAR LUMINAIRE. DIMENSIONS AS SHOWN. REFER TO SCHEDULE FOR TYPE.	
	CEILING MOUNTED LUMINAIRE	
	WALL MOUNTED LINEAR LUMINAIRE. DIMENSIONS AS SHOWN. REFER TO SCHEDULE FOR TYPE.	
	VERTICAL WALL MOUNTED FLUORESCENT LUMINAIRE	
	STRIP LIGHT. REFER TO SCHEDULE FOR FIXTURE TYPE.	
	WALL SCONCE	
	SINGLE POLE LINE VOLTAGE LIGHT SWITCH	
	3 WAY - LINE VOLTAGE LIGHT SWITCH	
	LOW VOLTAGE LIGHT SWITCH	
	KEY OPERATED LINE VOLTAGE SWITCH	
	MASTER SWITCH	
	DIMMER TYPE TO SUIT LOAD	
	CEILING MOUNTED PHOTO CELL SWITCH	
	WALL MOUNTED PHOTO CELL SWITCH	
	DAY LIGHT SENSOR	
	CEILING MOUNTED OCCUPANCY SENSOR. TYPE DENOTED BY 'X'. REFER TO OCCUPANCY SENSOR SCHEDULE.	
	WALL MOUNTED OCCUPANCY SENSOR. TYPE DENOTED BY 'X'. REFER TO OCCUPANCY SENSOR SCHEDULE.	
	3-BUTTON SCENE SELECTOR WALL POD. REFER TO LIGHTING CONTROL DETAILS.	

SYMBOL	DESCRIPTION
	FLUSH MOUNTED SINGLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE.
	FLUSH MOUNTED DOUBLE TUB PANEL RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE.
	SURFACE MOUNTED SINGLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE.
	SURFACE MOUNTED DOUBLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE.
	DISCONNECT
	COMBINATION MANUAL STARTER WITH INTEGRAL DISCONNECT
	COMBINATION STARTER WITH INTEGRAL DISCONNECT
	SINGLE PHASE DIRECT CONNECTION
	THREE PHASE DIRECT CONNECTION
	SINGLE PHASE DIRECT CONNECTION C/W DISCONNECT
	THREE PHASE DIRECT CONNECTION C/W DISCONNECT
	SINGLE PHASE MOTOR C/W DISCONNECT
	SINGLE PHASE MOTOR C/W RELAY DISCONNECT
	SINGLE PHASE MOTOR C/W COMBINATION STARTER WITH INTEGRAL DISCONNECT
	SINGLE PHASE MOTOR
	THREE PHASE MOTOR
	PUSH BUTTON
	THERMOSTAT-1/2" CONDUIT TO ACCESSIBLE CEILING SPACE
	JUNCTION BOX (SIZE SPECIFIED ON DRAWING)
	GROUND BAR
	METER
	RELAY
	VARIABLE FREQUENCY DRIVE (SUPPLIED BY OTHERS)
	PULL BOX

NUMBER	DRAWING LIST
E001	DRAWING LIST AND LEGEND
E002	ELECTRICAL SPECIFICATIONS
E003	ELECTRICAL DETAILS
E004	ELECTRICAL SCHEDULES
E100	ELECTRICAL DEMOLITION LAYOUT
E200	POWER AND SYSTEMS LAYOUT
E300	REFLECTED CEILING LAYOUT

SYMBOL	DESCRIPTION
	CONDUIT AND BACK-BOX FOR WALL MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION
	CONDUIT AND BACK-BOX FOR WALL MOUNTED VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION.
	CONDUIT AND BACK-BOX FOR WALL MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.
	CONDUIT AND BACK-BOX FOR CCTV. CABLE TYPE AS PER SPECIFICATION.
	CONDUIT ROUGH-IN FOR ELECTRIC STRIKE.
	CONDUIT ROUGH-IN FOR BARRIER FREE PUSHBUTTON.
	120V 15A, AUTOMATIC DOOR OPERATOR.
	CONDUIT AND BACK-BOX FOR COAXIAL CATV OUTLET
	CONDUIT AND BACK-BOX FOR WALL MOUNTED SPEAKER
	CONDUIT AND BACK-BOX FOR POWER ZONE BOX
	WALL MOUNTED DOME LIGHT ('Z' DENOTES ZONE LIGHT)
	CONDUIT AND BACK BOX FOR CARD READER.
	CLASSROOM CONTROL PANEL
	CONDUIT AND BACK BOX FOR MOTION SENSOR
	J-HOOKS FOR VOICE/DATA

SYMBOL	DESCRIPTION
	WALL MOUNTED EMERGENCY SINGLE REMOTE HEAD
	WALL MOUNTED EMERGENCY DOUBLE REMOTE HEAD
	CEILING MOUNTED EMERGENCY SINGLE REMOTE HEAD
	CEILING MOUNTED EMERGENCY DOUBLE REMOTE HEAD
	EMERGENCY LIGHTING BATTERY UNIT C/W NUMBER OF HEADS SHOWN
	EMERGENCY LIGHTING BATTERY UNIT
	EMERGENCY LIGHTING BATTERY + EXIT LIGHT COMBINATION UNIT C/W NUMBER OF HEADS SHOWN
	EXIT LIGHT CEILING MOUNTED C/W FACES AND ARROWS AS INDICATED
	EXIT LIGHT WALL MOUNTED C/W FACES AND ARROWS AS INDICATED

Consultant:



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 4 Industrial Parkway South | Aurora | ON | L4G 3W1
 www.lonerганeng.com

Stamp:

All dimensions to be checked and verified on site.
 Do not scale drawings.
 Any discrepancies are to be reported to the Consultant.
 All drawings remain the property of the Consultant.
 Only listed approved drawings to be used for construction.

Project:

Tecumseth Beeton Elementary School

INTERIOR CHILDCARE RENOVATIONS
 TENDER NO. 2022-13062T

43 Patterson Street,
 Beeton, Ontario

Project North: True North:

ISSUES

No.	Revisions	Date
1.	ISSUED FOR 50% REVIEW	2022-06-15
2.	ISSUED FOR 80% REVIEW	2022-09-01
3.	ISSUED FOR PERMIT	2022-10-14
4.	ISSUED FOR TENDER	2022-10-27

Drawing Title:

DRAWING LIST AND LEGEND

Scale: AS NOTED


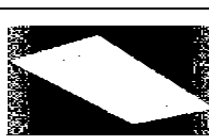
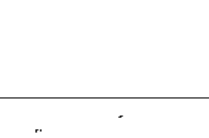

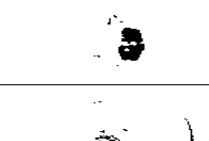

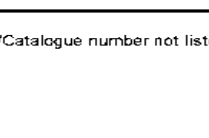
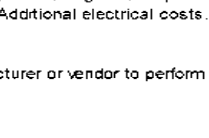
Date: 2022-06-01

Job No.: 21016.002

Drawn by: M.V.

Drawing No.:

E-001

LUMINAIRE SCHEDULE											
Project Name: TECUMSETH BEETON CHILDCARE RENOVATIONS											
Project number: 21016.002											
											
TYPE	CEILING TYPE	WALL TYPE	NO. OF LAMPS	VOLTAGE	DIMENSIONS	DESCRIPTION	MANUFACTURER/CATALOGUE NUMBER	IMAGE			
TYPE	SURFACE RECESSED	SUSPENDED RECESSED	BRACKET	120V	LENGTH						
			0-10V DIMMING		WIDTH						
					HEIGHT						
L1	X		NA	X	3000LM 1200mm 600mm 114mm	2' x 4' recessed 1-bar lay-in LED. Cold rolled steel housing, life of 60,000 hours (L80), 5-year warranty.	Mark Architectural Whisper LED WHPR LCTR 244 40CRI 33K 3000LM MNI 120V 50VC Cooper Encounter series CFI DayBrite Formflex series				
L2	X		0-10V	X	3000LM 1200mm 300mm 56mm	1' x 4' surface mount LED edgeline flat panel luminaire. Aluminum frame, 5 year warranty.	Lithonia EPanel LED: E-PANEL 1X4 3000LM 80CRI 33K MNI10 ZT 200V Cooper Metalux 14FP series CFI DayBrite FluxPanel LED series				
L3	X		NA	X	1650LM 3500K >80CRI	8" outdoor LED downlight to be mounted within canopy soff. IC rated driver and fixture.	Lithonia WFRMOLT WFR LED 35K 90CRI MW Cooper CFI				
W1	X		NA	X	3500LM 4000K	Wall mounted LED luminaire with 20 LED light engines, type 2 medium distribution, 530mA.	Lithonia DS35W1 LED 20C 530 40K 12M MVOLT or equivalent				
R1	X		NA			LED Single Remote Head Fixture. See Battery Unit schedule for more information.	Lumacell MOM Bighell Emerg-lite				
R2	X		NA			LED Double Remote Head Fixture. See Battery Unit schedule for more information.	Lumacell MOM NC Bighell Emerg-lite				
X1			NA	X		Steel White Green Pictogram - Exit Sign. Allow for 120V wire in with built in 60 minute capacity for Backup. Complete with universal mounting kit. Refer to plans for face and chevron requirements.	Lumacell Bighell Emerg-lite Lithonia				

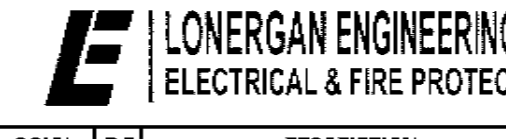
NOTES:
 1. All luminaires need to be consistent on technology and must match reference standard description regardless of catalogue number. Where finishes are not indicated, allow for special finish. Manufacturer/Catalogue number not listed will not be considered.
 2. LEDs are to be latest technology to provide maximum lumens, binning, best colour and longest life at time of purchase. Drivers are to be the latest technology at time of purchase.
 3. Coordinate luminaire dimensions with existing and/or new ceiling grid.
 4. All LED luminaires that present signs of failure on site, within the warranty period, must be replaced at no cost to the owner. If temporary luminaires are required to replace any failed LED luminaires, during the waiting time for parts (e.g. drivers, boards, heat sinks, etc.) the labour cost including installation, temporary luminaire removal and reinstallation of the LED fixture must be provided at no cost to the owner. Additional electrical costs associated with higher voltage temporary luminaires, must be reimbursed with interest to the owner by the manufacturer.
 5. In case of failure of an LED luminaire complete or part thereof, the luminaire manufacturer, an independent third party testing laboratory (approved by Lonergan Engineering) shall be commissioned by the manufacturer or vendor to perform tests on samples taken from the failed luminaires installed on corresponding site. All reporting including the test results must be submitted to Lonergan Engineering for evaluation and final approval.
 6. Any additional time involved by Lonergan Engineering will be billed at our hourly rates to the manufacturer or vendor.

BATTERY UNIT SCHEDULE							
Project Name: Tecumseth Beeton Childcare Renovations							
Project # 21016.002							
UNIT	LOCATION	SINGLE HEAD LOAD PER HEAD (4W)	DOUBLE HEAD LOAD PER SET (8W)	EXIT SIGNS LOAD PER SIGN (5W)	SPARE CAPACITY (%)	MINIMUM CONNECTED LOAD (W)	LENGTH OF RUNTIME (hr)
BU-1 (12VDC)	COAT STORAGE 110A	1	9	0	20%	91.2	1

NOTES:
 1. Provide all mounting shelves for installation of battery units. Size to suit.
 2. Provide breaker lock-on devices for all circuit(s) feeding battery units.
 3. All emergency lighting to be LED lamps.

LIGHTING CONTROL SEQUENCE OF OPERATIONS			
ROOM TYPE	ON	OFF	ADJUSTMENTS
CORRIDORS	LOCAL THREE WAY CORRIDOR SWITCHES ALLOW FOR LOCAL MANUAL CONTROL. WHEN CORRIDOR OCCUPANCY SENSORS DETECT OCCUPANCY LIGHTS WILL TURN ON TO PRESET SWITCH SETTING.	LIGHTS CONTROLLED BY OCCUPANCY SENSORS AUTOMATICALLY DIM TO 50% AFTER 15 MINUTES OF VACANCY.	EACH ZONE IS SEPARATELY DIMMABLE UP TO 100% VIA THE RESPECTIVE WALL MOUNTED DIMMER FOR EACH ZONE.
WASHROOMS	LIGHTS AUTOMATICALLY TURN ON WITH OCCUPANCY VIA THE CEILING/WALL MOUNTED OCCUPANCY SENSOR.	LIGHTS AUTOMATICALLY TURN OFF VIA THE CEILING/WALL MOUNTED OCCUPANCY SENSOR AFTER 15 MINUTES OF VACANCY.	
STORAGE ROOMS / OFFICE	LIGHTS ARE MANUALLY TURNED ON WITH THE WALL MOUNTED OCCUPANCY SENSOR/SWITCH.	LIGHTS AUTOMATICALLY TURN OFF VIA THE WALL MOUNTED OCCUPANCY SENSOR/SWITCH AFTER 15 MINUTES OF VACANCY. LIGHTS CAN ALSO BE MANUALLY TURNED OFF WITH THE WALL MOUNTED SENSOR/SWITCH.	
CLASSROOMS / OFFICES	LIGHTS ARE MANUALLY TURNED ON WITH THE 3 BUTTON WALL SWITCH(ES).	LIGHTS CAN BE MANUALLY TURNED OFF USING THE LOCAL 3 BUTTON SWITCHES. LIGHTS IN ALL ZONES AUTOMATICALLY TURN OFF VIA THE CEILING MOUNTED OCCUPANCY SENSOR(S) AFTER 15 MINUTES OF VACANCY.	EACH ZONE IS SEPARATELY DIMMABLE UP TO 100% OR DOWN TO "OFF" VIA THE RESPECTIVE 3 BUTTON WALL MOUNTED SWITCH FOR EACH ZONE [RAISE, LOWER, ON/OFF]

NOTES:
 1. REFER TO PLANS FOR EXTENT OF LIGHTING CONTROLS AND ZONING.
 2. IN ROOMS WITH MULTIPLE OCCUPANCY SENSORS, SENSORS ARE TO BE WIRED SUCH THAT THE ACTIVATION OF ONE CONTROLS ALL SENSORS WITHIN THE SAME ROOM.

PANEL: LP-B(1) - EXISTING FPE															
Project Name: TECUMSETH BEETON CHILDCARE CENTRE															
Project # 21016.002															
															
TYPE	DESCRIPTION	D.F. [%]	CONN. LOAD [W]	DEMAND LOAD [W]	BKR [A]	CCT NO.	Φ	CCT NO.	BKR [A]	DEMAND LOAD [W]	CONN. LOAD [W]	D.F. [%]	DESCRIPTION	TYPE INFO	
	LIGHTING	100			15	1	A	2	15				100	TELEPHONE	
	LIGHTING ROOMS 103, 101, 101A, 101B	100			15	3	B	4	15				100	OFFICE RECEPTACLES	
	RECEPTACLE RM 101A	100			15	5	C	6	15				100	OUTSIDE LIGHTS	
	RECEPTACLE RM 101 & 107	100			15	7	A	8	15				100	KITCHEN COUNTER PLUGS RM 115	
	LIGHTING ROOM 122	100			15	9	B	10	15				100	CLASSROOM LIGHTS 105	
	LIGHTING ROOM 115 & HALL	100			15	11	C	12	15				100	CLASSROOM LIGHTS 105	
BLO	EMERGENCY BATTERY UNIT 105A AND EX1	100	120	120	15	13	A	14	15	300	600	50	50	CLASSROOM RECEPTACLES 113	
	BATTERY PACK RM 111	100			15	15	B	16	20	500	1000	50	50	OVERCOUNTER GFCI 113	
	SINK RECEPTACLE ROOM 111 112	100			15	17	C	18	15	500	500	100	100	FRIDGE 113	
	112 AUTO FLUSH TRANS	100			15	19	A	20	20	500	1000	50	50	OVERCOUNTER GFCI 113	
	NEW WASHROOM DOOR OPERATORS	100			15	21	B	22	20	500	1000	50	50	MICROWAVE 113	
	SPARE	100			15	23	C	24	15	500	500	100	100	FRIDGE 113	
	SPARE	100			15	25	A	26	40	793	3172	25	25	DISHWASHER 111A	
	CLASSROOM RECEPTACLES 107	50	500	250	15	27	B	28	20	793	3172	25	25		
	WASHROOM GFCI 113A	50	300	240	20	29	C	30	15	240	300	50	50	WASHROOM GFCI 111B	

PANEL OPTIONS:
 FEED THROUGH
 SUB-FEED
 MAIN BREAKER
 200% RATED NEUTRAL BUS
 ISOLATED GROUND BUS


LOAD A [KW]: 1.7
 LOAD B [KW]: 2
 LOAD C [KW]: 1.5
 TOTAL [KW]: 5.2

CURRENT A [A]: 17
 CURRENT B [A]: 14
 CURRENT C [A]: 12

PHASE VOLTAGE [V]: 120
 LINE VOLTAGE [V]: 208
 PHASE: 3Φ
 WIRE: 4
 MAINS [A]: 125
 MAIN BREAKER [A]:
 I.C. [KA]: 10

LEGEND:
 BAS-Building Automation System R-C-Relay Controlled LTS-Lighting
 GFCI-Ground Fault Circuit Interrupter M-Motor HD-High Intensity
 AFCI-Arc Fault Circuit Interrupter D.F-Demand Factor Discharge Lighting Breaker
 SPD- Surge Protection Device REC-Receptacle D.C-Direct Connection
 BLO-Breaker Lock-On Device

NOTES:
 1 Loads show n in bold are new. Provide new breaker.

PANEL: LP-B(2) - EXISTING FPE															
Project Name: TECUMSETH BEETON CHILDCARE CENTRE															
Project # 21016.002															
															
TYPE	DESCRIPTION	D.F. [%]	CONN. LOAD [W]	DEMAND LOAD [W]	BKR [A]	CCT NO.	Φ	CCT NO.	BKR [A]	DEMAND LOAD [W]	CONN. LOAD [W]	D.F. [%]	DESCRIPTION	TYPE INFO	
	CORRIDOR LIGHTS E-3	100			15	1	A	2	15				100	EMERGENCY BATTERY	
	WASHROOMS 111 & 112 LIGHTS	100			15	3	B	4	15				100	RECEPTACLE CLASSROOM 105	
	CORRIDOR LIGHTS	100			15	5	C	6	15				100	LIGHTING CORRIDOR SOUTH	
	LIGHTING CLASSROOM 109	100			15	7	A	8	15				100	LIGHTING CLASSROOM 107	
	LIGHTING CLASSROOM 109	100			15	9	B	10	15				100	RECEPTACLE CLASSROOM 109	
	RECEPTACLE ROOM 115	100			15	11	C	12	15				100	LIGHTING CLASSROOM 107	
	HOT WATER TANK 103	100			30	13	A	14	15				100	LIGHTING CORRIDOR EAST	
	SPARE	100			30	15	B	16	15				100	RECEPTACLE CLASSROOM (POST) 109, 105	
	WASHROOM GFCI 107A	50	300	240	20	17	C	18	40				100	STOVE 110	
	FRIDGE 107B	100	500	500	16	19	A	20	20				100		
	HAND DRYER 116	100			20	21	B	22	20	500	1000	50	50	MICROWAVE 107B	
	HAND DRYER 108	100			20	23	C	24	20	500	1000	50	50	OVERCOUNTER GFCI 107B	
	HAND DRYER 117	100			20	25	A	26	15	320	400	80	80	OFFICE RECEPTACLES 111	
	HAND DRYER 112	100			20	27	B	28	20	500	1000	50	50	OVERCOUNTER GFCI 111A	
	HAND DRYER 115	100			20	29	C	30	20	500	1000	50	50	OVERCOUNTER GFCI 111A	

PANEL OPTIONS:
 FEED THROUGH
 SUB-FEED
 MAIN BREAKER
 200% RATED NEUTRAL BUS
 ISOLATED GROUND BUS


LOAD A [KW]: 0.8
 LOAD B [KW]: 1
 LOAD C [KW]: 1.2
 TOTAL [KW]: 3.1

CURRENT A [A]: 7
 CURRENT B [A]: 8
 CURRENT C [A]: 10

PHASE VOLTAGE [V]: 120
 LINE VOLTAGE [V]: 208
 PHASE: 3Φ
 WIRE: 4
 MAINS [A]: 125
 MAIN BREAKER [A]:
 I.C. [KA]: 10

LEGEND:
 BAS-Building Automation System R-C-Relay Controlled LTS-Lighting
 GFCI-Ground Fault Circuit Interrupter M-Motor HD-High Intensity
 AFCI-Arc Fault Circuit Interrupter D.F-Demand Factor Discharge Lighting Breaker
 SPD- Surge Protection Device REC-Receptacle D.C-Direct Connection
 BLO-Breaker Lock-On Device

NOTES:
 1 Loads show n in bold are new. Provide new breaker.

PANEL: HP-D - EXISTING FPE															
Project Name: TECUMSETH BEETON CHILDCARE CENTRE															
Project # 21016.002															
															
TYPE	DESCRIPTION	D.F. [%]	CONN. LOAD [W]	DEMAND LOAD [W]	BKR [A]	CCT NO.	Φ	CCT NO.	BKR [A]	DEMAND LOAD [W]	CONN. LOAD [W]	D.F. [%]	DESCRIPTION	TYPE INFO	
	FC-30F	100			15	1	A	2	60				100	RTU-1	
	SPARE	100			20	3	B	4					100		
	BF-6, BF-7 CHILDCARE CENTRE	50	300	240	15	5	C	6	30				100		
	SPARE	100			30	7	A	8	30				100	HP-31	
	SPARE	100			9	9	B	10					100		
	HP-31	100			30	11	C	12	30				100		
	FRIDGE 111A	100			15	13	A	14	40	1000	4000	25	25	STOVE	
	FRIDGE 111A	50	1000	800	15	17	C	18	15A	250	500	50	50	WASHER	
	FRIDGE 111A	50	1000	800	15	19	A	20	30	1250	2500	50	50	DRYER	
	RANSE HOOD	50	300	240	15	21	B	22	20	1250	2500	50	50		
	EXTERIOR GFCI	50	300	150	20	23	C	24	15				100	SPACE	

PANEL OPTIONS:
 FEED THROUGH
 SUB-FEED
 MAIN BREAKER
 200% RATED NEUTRAL BUS
 ISOLATED GROUND BUS

LOAD A [KW]: 3.1
 LOAD B [KW]: 2.5
 LOAD C [KW]: 1.4
 TOTAL [KW]: 7

CURRENT A [A]: 25
 CURRENT B [A]: 21
 CURRENT C [A]: 12

PHASE VOLTAGE [V]: 120
 LINE VOLTAGE [V]: 208
 PHASE: 3Φ
 WIRE: 4
 MAINS [A]: 225
 MAIN BREAKER [A]:
 I.C. [KA]: 10

LEGEND:
 BAS-Building Automation System R-C-Relay Controlled LTS-Lighting
 GFCI-Ground Fault Circuit Interrupter M-Motor HD-High Intensity
 AFCI-Arc Fault Circuit Interrupter D.F-Demand Factor Discharge Lighting Breaker
 SPD- Surge Protection Device REC-Receptacle D.C-Direct Connection
 BLO-Breaker Lock-On Device

NOTES:
 1 Loads show n in bold are new. Provide new breaker.

Consultant:

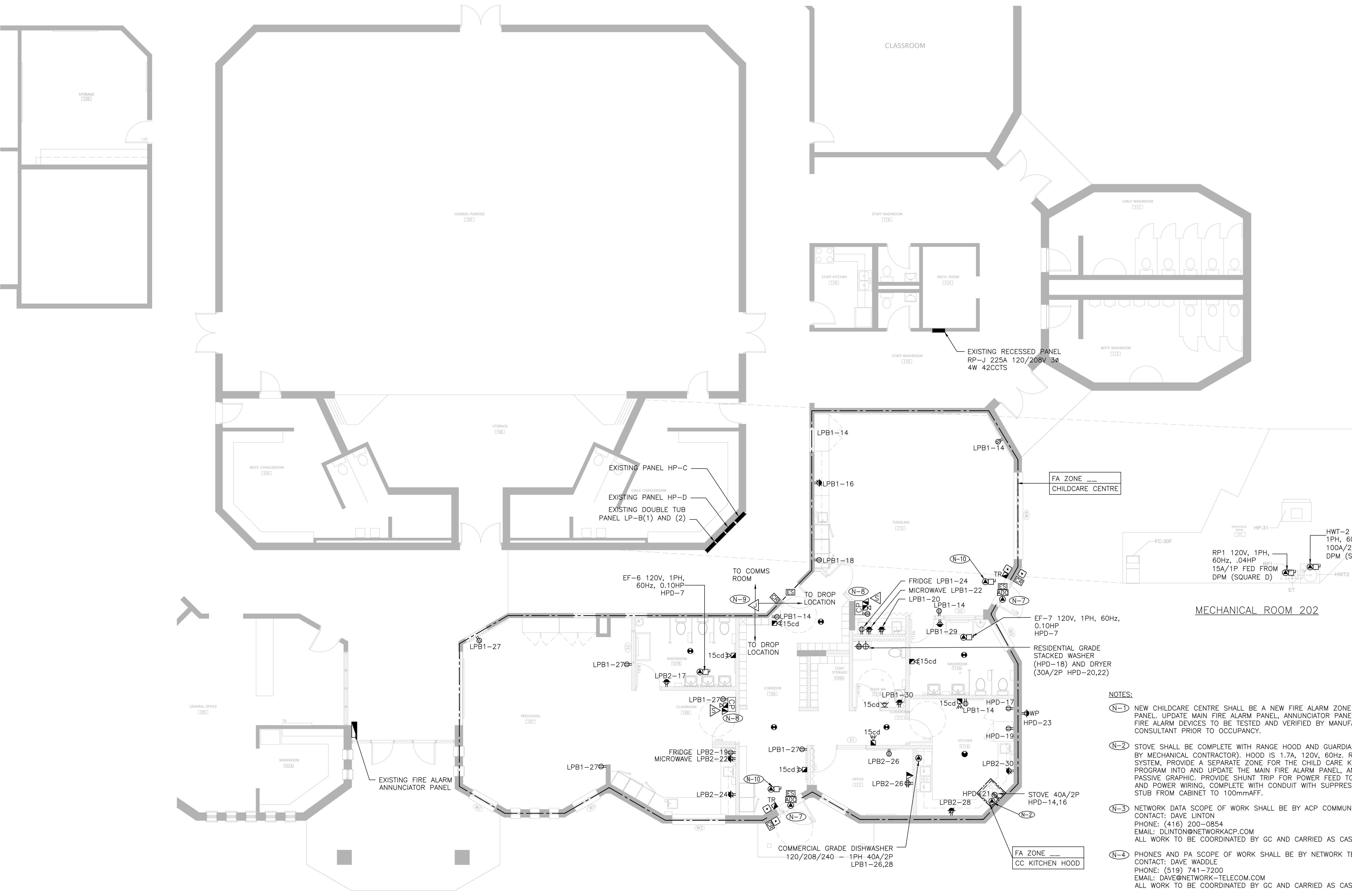
 LONERGAN ENGINEERING INC.
 43 Patterson Street, Beeton, Ontario
 Project North: True North

Scale: AS NOTED
 Date: 2022-06-01
 Job No.: 21016.002
 Drawn by: M.V.
 Drawing No.: E-004

ISSUES

No.	Revisions	Date
1.	ISSUED FOR 50% REVIEW	2022-06-15
2.	ISSUED FOR 80% REVIEW	2022-09-01
3.	ISSUED FOR PERMIT	2022-10-14
4.	ISSUED FOR TENDER	2022-10-27

Drawing Title: ELECTRICAL SCHEDULES



- NOTES:**
- (N-1) NEW CHILDCARE CENTRE SHALL BE A NEW FIRE ALARM ZONE IN THE EXISTING FIRE ALARM PANEL. UPDATE MAIN FIRE ALARM PANEL, ANNUNCIATOR PANEL AND PASSIVE GRAPHIC. ALL NEW FIRE ALARM DEVICES TO BE TESTED AND VERIFIED BY MANUFACTURER. SUBMIT REPORT TO CONSULTANT PRIOR TO OCCUPANCY.
 - (N-2) STOVE SHALL BE COMPLETE WITH RANGE HOOD AND GUARDIAN III FIRE SUPPRESSION (SUPPLIED BY MECHANICAL CONTRACTOR). HOOD IS 1.7A, 120V, 60Hz. RUN A SIGNAL TO THE FIRE ALARM SYSTEM, PROVIDE A SEPARATE ZONE FOR THE CHILD CARE KITCHEN SUPPRESSION SYSTEM. PROGRAM INTO AND UPDATE THE MAIN FIRE ALARM PANEL, ANNUNCIATOR PANEL AND FIRE ALARM PASSIVE GRAPHIC. PROVIDE SHUNT TRIP FOR POWER FEED TO STOVE. COORDINATE FIRE ALARM AND POWER WIRING, COMPLETE WITH CONDUIT WITH SUPPRESSION INSTALLER. PROVIDE CONDUIT STUB FROM CABINET TO 100mmAFF.
 - (N-3) NETWORK DATA SCOPE OF WORK SHALL BE BY ACP COMMUNICATIONS TECHNOLOGIES INC. CONTACT: DAVE LINTON
PHONE: (416) 200-0854
EMAIL: DLINTON@NETWORKACP.COM
ALL WORK TO BE COORDINATED BY GC AND CARRIED AS CASH ALLOWANCE.
 - (N-4) PHONES AND PA SCOPE OF WORK SHALL BE BY NETWORK TELECOM
CONTACT: DAVE WADDLE
PHONE: (519) 741-7200
EMAIL: DAVE@NETWORK-TELECOM.COM
ALL WORK TO BE COORDINATED BY GC AND CARRIED AS CASH ALLOWANCE.
 - (N-5) PROVIDE NEW BREAKERS FOR ALL CIRCUITS SHOWN. REFER TO PANEL SCHEDULES.
 - (N-6) PROVIDE 3 WIRES PLUS GROUND TO DISHWASHER. COORDINATE CONNECTION/RECEPTACLE REQUIREMENTS WITH VENDOR.
 - (N-7) CONNECT TO AVAILABLE CIRCUIT OBTAINED THROUGH DEMOLITION.
 - (N-8) REFER TO CLASSROOM CONTROL PANEL DETAILS ON ARCHITECTURAL DRAWINGS FOR INSTALLATION REQUIREMENTS AND DEVICE LAYOUT.
 - (N-9) THE ELECTRICAL CONTRACTOR SHALL PROVIDE J-HOOKS FOR LOW VOLTAGE SYSTEMS CABLES. COORDINATE FINAL ROUTING ON SITE WITH VENDORS.
 - (N-10) PROVIDE ELECTRICAL CONNECTION TO NEW AIR CURTAIN INSTALLED ABOVE THE DOOR. COORDINATE MOUNTING WITH MECHANICAL CONTRACTOR. ELECTRICAL CONNECTION SHALL BE 25A, 208V, 3PH.

**Tecumseth Beeton
Elementary School**

**INTERIOR CHILDCARE
RENOVATIONS**
TENDER NO. 2022-13062T

43 Patterson Street,
Beeton, Ontario

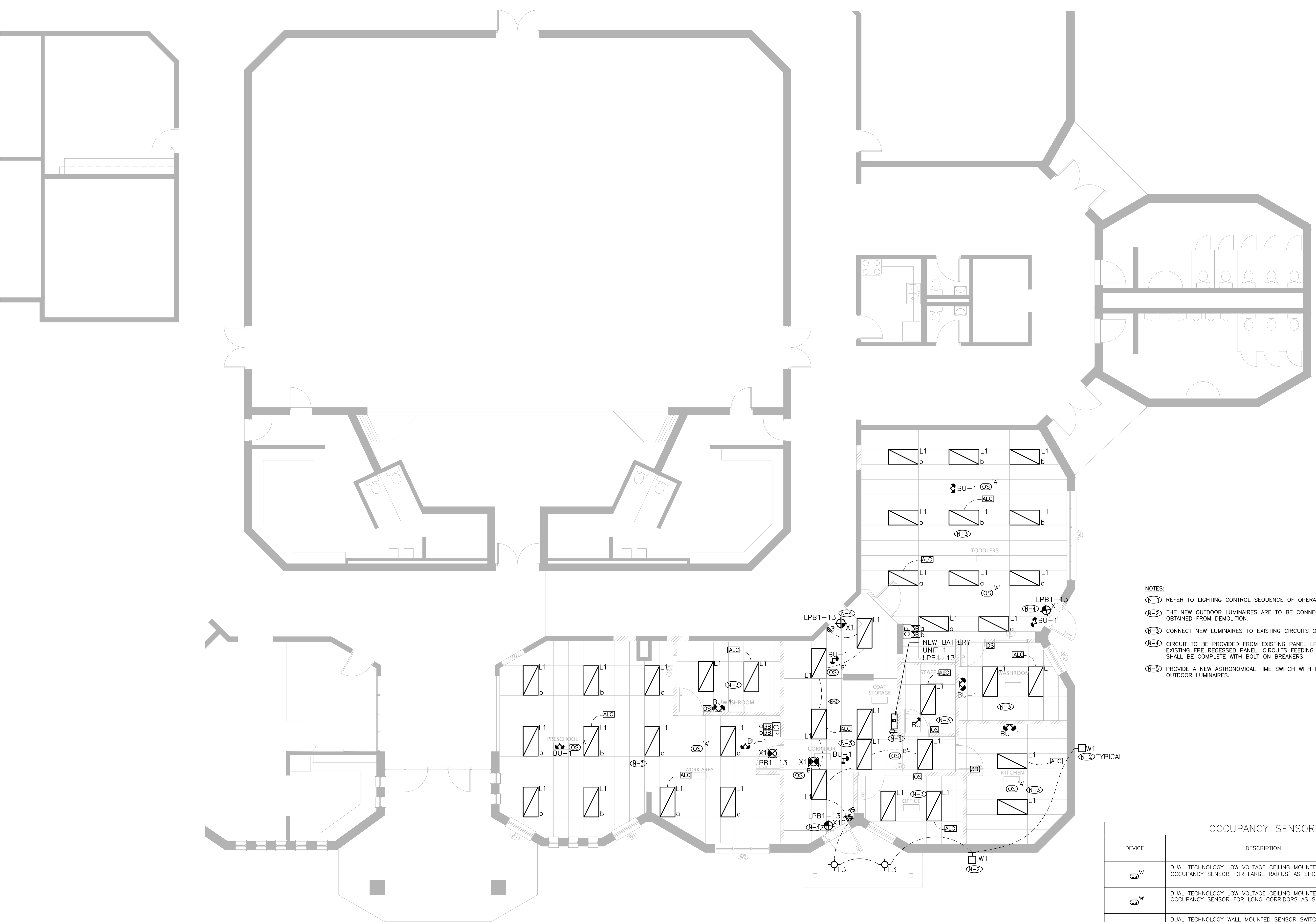
Project North: True North

ISSUES

No.	Revisions	Date
1.	ISSUED FOR 50% REVIEW	2022-06-15
2.	ISSUED FOR 80% REVIEW	2022-09-01
3.	ISSUED FOR PERMIT	2022-10-14
4.	ISSUED FOR TENDER	2022-10-27

Drawing Title:
**POWER AND SYSTEMS
LAYOUT**

Scale: 1:75
Date: 2022-06-01
Job No.: 21016.002
Drawn by: M.V.
Drawing No.:



- NOTES:**
- (N-1) REFER TO LIGHTING CONTROL SEQUENCE OF OPERATIONS FOR LIGHTING CONTROL REQUIREMENTS.
 - (N-2) THE NEW OUTDOOR LUMINAIRES ARE TO BE CONNECTED TO A NEW OUTDOOR LIGHTING CIRCUIT OBTAINED FROM DEMOLITION.
 - (N-3) CONNECT NEW LUMINAIRES TO EXISTING CIRCUITS OBTAINED FROM DEMOLITION.
 - (N-4) CIRCUIT TO BE PROVIDED FROM EXISTING PANEL LP-B(1). PROVIDE NEW 15A-1P BREAKER IN EXISTING FPE RECESSED PANEL. CIRCUITS FEEDING EMERGENCY LIGHTING AND EXIT SIGNAGE SHALL BE COMPLETE WITH BOLT ON BREAKERS.
 - (N-5) PROVIDE A NEW ASTRONOMICAL TIME SWITCH WITH MANUAL OVERRIDE TO CONTROL THE NEW OUTDOOR LUMINAIRES.

OCCUPANCY SENSOR SCHEDULE		
DEVICE	DESCRIPTION	REMARKS
OS 'A'	DUAL TECHNOLOGY LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR FOR LARGE RADII'S AS SHOWN.	REFER TO CONTROL SEQUENCE OF OPERATIONS FOR CONTROL REQUIREMENTS. TO BE PROGRAMMED AS A VACANCY SENSOR
OS 'B'	DUAL TECHNOLOGY LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR FOR LONG CORRIDORS AS SHOWN.	REFER TO CONTROL SEQUENCE OF OPERATIONS FOR CONTROL REQUIREMENTS.
OS	DUAL TECHNOLOGY WALL MOUNTED SENSOR SWITCH	REFER TO CONTROL SEQUENCE OF OPERATIONS FOR CONTROL REQUIREMENTS.

NOTES:

1. REFER TO PLANS FOR EXTENT OF LIGHTING CONTROLS AND ZONING.
2. IN ROOMS WITH MULTIPLE OCCUPANCY SENSORS, SENSORS ARE TO BE WIRED SUCH THAT THE ACTIVATION OF ONE CONTROLS ALL SENSORS WITHIN THE SAME ROOM.

Consultant:

LONERGAN ENGINEERING INC.

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All dimensions to be checked and verified on site.
 Do not scale drawings.
 Any discrepancies are to be reported to the Consultant.
 All drawings remain the property of the Consultant.
 Only latest approved drawings to be used for construction.

Tecumseth Beeton Elementary School

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REFLECTED CEILING LAYOUT

Scale: 1:75

Date: 2022-06-01

Job No.: 21016.002

Drawn by: M.V.

Drawing No.:

E-300