EIGHT CLASSROOM ADDITION AT
ST.LUKE THE EVANGELIST CATHOLIC SCHOOL

55 Twin Streams Road,
Whitby, Ontario

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CIVIL

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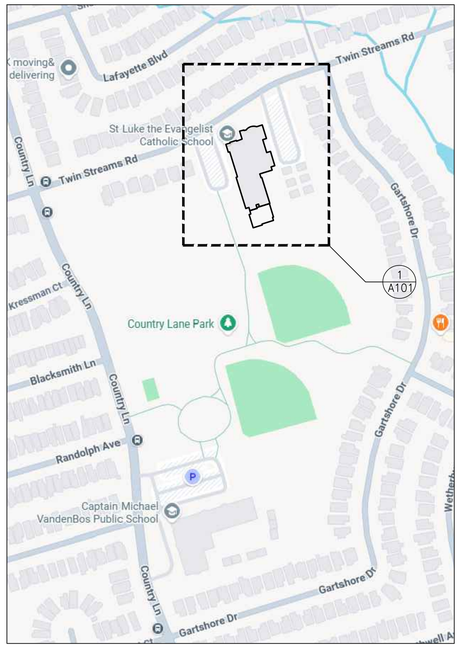
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LOCATION PLAN

N.T.S.

CONSULTANTS

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NAME OF PROJECT :
8 CLASS ROOM ADDITION AT
ST.LUKE THE EVANGELIST CATHOLIC SCHOOL

LOCATION OF PROJECT :
55 Twin Streams Road
Whitby, Ontario

DATE :
November 2026

Ontario Building Code Data Matrix Part 3

			OBC Reference
3.00	Building Code Version:	O. Reg. 163/24 Last Amendment: O. Reg. 447/24	
3.01	Project Type:	☐ New ☐ Addition ☐ Renovation ☐ Change of use ☑ Addition and Renovation Description -	[A] 1.3.3.2
3.02	Major Occupancy Classification:	Occupancy: A2 / - / - ; Use: Elementary School / - / -	3.1.2
3.03	Superimposed Major Occupancies:	☑ No ☐ Yes Description -	3.2.2.7
3.04	Building Area (m²)	Description: Building Area / - / - ; Existing: 2,692.26 m² / - / - ; New: 423.52 m² / - / - ; Total: 3,115.78 m² / - / - ; Total= 2,692.26 m² 423.52 m² 3,115.78 m²	[A] 1.4.1.2.
3.05	Gross Area (m²)	Description: First Floor / Second Floor ; Existing: 2,692.26 m² / 1,910.50 m² ; New: 423.52 m² / 423.52m² ; Total: 3,115.78 m² / 2,334.02 m² ; Total= 4,602.76 m² 847.04 m² 5,449.80 m²	[A] 1.4.1.2.
3.06	Mezzanine Area (m²)	Description: N.A. / - / - / - ; Existing: - / - / - / - ; New: - / - / - / - ; Total: - / - / - / - ; Total= - - -	3.2.1.1
3.07	Building Height	2 Storeys above grade ±9.1 (m) Above grade; 0 Storeys below grade (Top of Parapet)	[A] 1.4.1.2 & 3.2.1.1
3.08	High Building	☑ No ☐ Yes	3.2.6
3.09	Number of streets/ fire fighter access:	2 street(s)	3.2.2.10 & 3.2.5
3.10	Building Classification:	3.2.2.24 Group/ Div. Group A Division 2	3.2.2.20. - 93
3.11	Sprinkler System	☑ Required ☐ Not Required Proposed: ☑ entire building ☐ selected compartments ☐ selected floor areas ☐ basement ☐ in lieu of roof rating ☐ none	3.2.1.5, 3.2.2.18, 3.2.2.21, 3.2.2.22, 3.2.2.29, 3.2.4.9, 3.2.4.15 and 3.2.5.12 to .14
3.12	Standpipe System	☑ Not Required ☐ Required	3.2.5.8-11
3.13	Fire Alarm System	☑ Required ☐ Not Required Type Provide: ☑ Single Stage ☐ Two Stage ☐ None	3.2.4
3.14	Water Service/ Supply is Adequate	☐ No ☑ Yes	3.2.5.7
3.15	Construction Type:	Restriction: ☐ Combustible Permitted ☑ Non-combustible Required ☐ Encapsulated mass timber	3.2.2.20. - 93 & 3.1.6
	Actual construction	Actual: ☐ Combustible ☑ Non-combustible ☐ Encapsulated mass timber ☐ Combination of Combustible and non-combustible ☐ Combination of Encapsulated mass timber and non-combustible Heavy Timber Construction: ☑ No ☐ Yes	3.1.4.6 to 7 & 3.12.2.16
3.16	Importance Category:	☐ Low ☐ Low human Occupancy ☐ Post-disaster shelter ☐ Normal ☑ High ☐ Minor storage building ☐ Explosives or hazardous substances ☐ Post-disaster	4.1.2.1. (3) & T4.1.2.1
3.17	Seismic Category:	Seismic Category: C Site Class: SC2 Seismic design required for Table 4.1.1.18. items 6 to 22: ☐ Required ☑ Not Required Reasons: High Importance / SC2	4.1.8.4.(1) T-4.1.8.5.B 4.1.8.18
3.18	Occupant Load:	Floor Level/ Area: Entire School; Occupancy Type: Assembly; Based On: Use; Occupant Load: 674; Posted limit Required: No	3.1.17
3.19	Barrier-free Design:	☑ Yes ☐ No Explanation ☐ No	3.8
	Barrier-free Entrances:	Number 5 Explanation	3.1.8.2
3.20	Hazardous Substances:	☐ Yes Explanation ☑ No	3.3.1.2
3.21	Required Fire Resistance Ratings:	Horizontal Assembly: Storeys below grade - / Floors over basement - / Floors 1 Hour / Mezzanine - / Roof; Rating(H): - / - / 1 Hour / - / -; Supporting Assembly (H): - / - / 1 Hour / - / -; Non combustible in lieu of rating?: ☐No ☐Yes ☑N/A	3.2.2.20. - 93, 3.2.1.2, 3.2.1.4, 3.2.2.15 & 3.3.2.1
3.22a	Spatial Separation:		3.2.3

Exposed Building Face	Area Of EBF (m²)	L.D. (m)	L/H or H/L	Required FRR (Hours)	Max. % Of Openings Permitted	% Of Openings Proposed	
North		13.4 m		N/A	100%		SEE TABLE 3.2.3.1-D
South		59.3 m		N/A	100%		SEE TABLE 3.2.3.1-D
East		39.8 m		N/A	100%		SEE TABLE 3.2.3.1-D
West		30 m		N/A	100%		SEE TABLE 3.2.3.1-D

All set backs to lot lines. All greater than 9.0 m. 100% unprotected openings allowed.

3.22b	Spatial Separation: cont.		3.2.3

Wall	EBF (Repeated)	Construction Type	Cladding Type
North	100%	Non-combustible	☑ Noncombustible
South	100%	Non-combustible	☑ Noncombustible
East	100%	Non-combustible	☑ Noncombustible
West	100%	Non-combustible	☑ Noncombustible

3.23a	Plumbing Fixture Requirements:	Ratio: Male/Female = 50:50 Except as noted otherwise	3.7.4, 3.8.2.3

Floor level/ Area	Occupant Load 7/2.	OBC Reference 3.7.4.3.(14)	WC's Required 12M/14F	WC's Provided
Entire School				12 male 12 female 9 Genderless

3.23b	Plumbing Fixture Requirements: cont.		Tables 3.8.2.3.A and 3.8.2.3.B

Floor level/ Area (Repeated)	B.F. WC's Required	B.F. WC's Provided	Universal Washrooms Required	Universal Washrooms Provided
Level 1		2 EX. + 1 NEW	1	1
Level 2		2 EX.		

3.24	Energy Efficiency:	Compliance Path: SB-10 Climatic Zone: 5 OBC Table: 5.5-5-2017 Degree Day Below 18°C 3,820	12.2.1.2 SB-1 TABLE 2
3.25	Sound Transmission Design:	Is there more than 1 dwelling unit per building?: ☐ Yes ☐ No Option Implemented: N/A Notes:	SB-3 5.8.1.2.(2), 5.8.1.4., & 5.8.1.5.
3.26	Alternative Solutions:	N/A	[A] 1.2.1.1, and [C]2.1
3.27	Notes:		

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR 30% REVIEW	JUNE 25, 2026	BBA
2	ISSUED FOR SITE PLAN AMENDMENT	AUG. 25, 2026	BBA
3	ISSUED FOR 80% REVIEW	SEP. 16, 2026	BBA
4	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
5	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST
CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

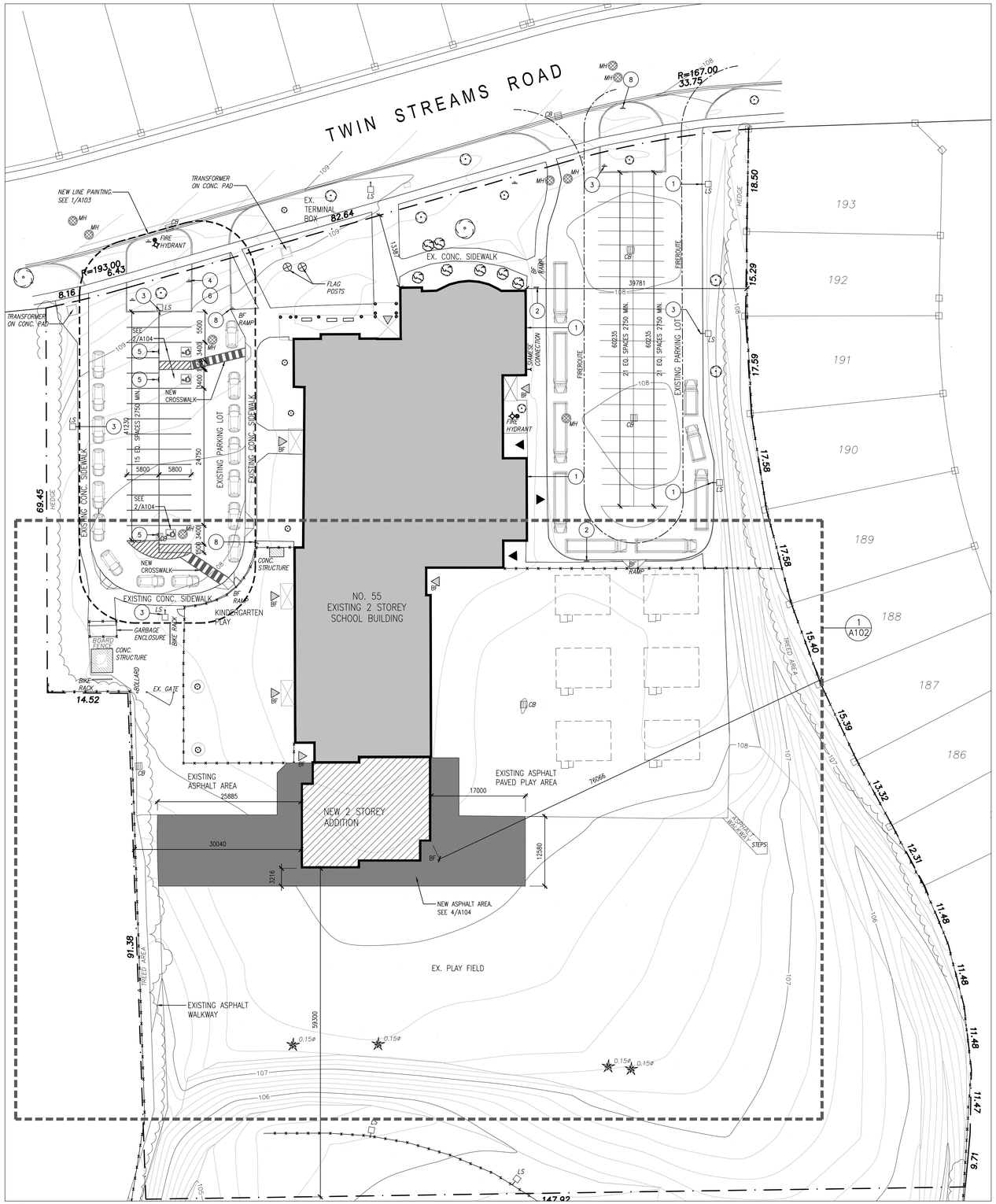
DRAWING:
LIST OF DRAWINGS,
LOCATION MAP
& OBC MATRIX

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CHANDRA ERIN CAUTIUS
LICENCE 8881
NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A000



1 A101 SITE PLAN
1:400

SITE DATA

SITE AREA	24,135m²
BUILDING FOOTPRINT AREA	EXISTING 2,692.3m² + ADDITION 423.5m² = 3,115.8m²
BUILDING COVERAGE	24,135 / 3,116 = 7.75%
GROSS AREA	EXISTING 4,602.8m² + ADDITION 847m² = 5,449.8m²
FRONT YARD SETBACK	13.4 M
REAR YARD SETBACK	59.3 M
SIDE YARD SETBACK	39.8 M
SIDE YARD SETBACK	29.7 M
BUILDING HEIGHT	2 STOREYS – 11 M
EXISTING PORTABLES TO BE REMOVED	7
NEW PORTABLES	NOT REQUIRED AS PER DURHAM CATHOLIC BOARD PLANNING DATA

SITE PARKING DATA

EXISTING CLASSROOMS	22 (1.5 SPACES / CLASSROOM = 33 SPACES REQUIRED)
NEW ADDITION CLASSROOMS	8 (2.5 SPACES / CLASSROOM = 20 SPACES REQUIRED)
TOTAL PARKING SPACES REQUIRED	30 SPACES + 20 SPACES = 53
TOTAL EXISTING PARKING SPACES	70
TOTAL NEW RECONFIGURED PARKING SPACES	71
ACCESSIBLE PARKING	71 x .04 = 3 SPACES REQUIRED
ACCESSIBLE PARKING PROVIDED	3
BUS PARKING REQUIRED	7 FULL SIZE + 1 VANS
BUS PARKING PROVIDED	7 FULL SIZE + 2 VANS
KISS N RIDE LAY-BY SPACES REQUIRED	3 (1 SPACE / 3 CLASSROOMS) = 30 / 3 = 10 SPACES
KISS N RIDE LAY-BY SPACES PROVIDED	17 SPACES

SITE PLAN LEGEND

- WV — WATER VALVE
- SURVEY MONUMENT
- CB — CATCH BASIN REFER TO SITE SERVICES DRAWINGS
- MAN HOLE REFER TO SITE SERVICES DWG.
- EXTERIOR DOOR LOCATIONS
- EXTERIOR MAIN DOOR LOCATIONS (BARRIER-FREE)
- EXISTING LIGHT STANDARD
- FH — EXISTING FIRE HYDRANT
- BARRIER-FREE CURB RAMP
- BARRIER-FREE PARKING SPACE
- 305mm STOP BAR
- MEDIUM DUTY ASPHALT – (SEE DETAIL 4/A110)
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- BR — EXIST. BIKE RACK
- ITEMS TO BE DELETED AS NOTED
- FIRE ROUTE CENTRELINE
- NEW CHAIN LINK FENCING
- S — SIGNAGE

SIGN LEGEND

1. EXISTING; NO PARKING – FIRE ROUTE ACCESS
2. EXISTING; BUSES ONLY, NO PARKING
3. EXISTING; DIRECTIONAL ARROWS
4. EXISTING TO BE REMOVED; DO NOT ENTER
5. EXISTING B.F. TO BE RELOCATED TO NEW B.F. PARKING SPOT LOCATIONS
6. EXISTING; NO LEFT TURN
7. NEW; DO NOT ENTER – WRONG WAY (SEE DETAIL 3/A104)
8. EXISTING; NO PARKING, NO STANDING

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL MATERIALS TO BE DEMOLISHED AND/OR REMOVED. ALL DEMOLISHED AND REMOVED ITEMS ARE TO BE DISPOSED OF OFF-SITE.
2. REPAIR AND MAKE GOOD ALL EXISTING AREAS ADJACENT TO NEW WORK. PROVIDE NEW ASPHALT TO MATCH EXISTING AS REQUIRED. PROVIDE NEW SEEDING AT THE PERIMETER OF NEW ASPHALT AND SIDEWALKS AS PER SPECIFICATIONS.
3. DRAWING A101, A102, A103 AND A104 SHALL BE READ IN CONJUNCTION WITH ALL OTHER ARCHITECTURAL DRAWINGS, AND ALL CONSULTANTS' DRAWING FOR ADDITIONAL NOTES, DIMENSIONS AND DETAILS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND BECOME FAMILIAR WITH THE FULL EXTENT OF THE SCOPE OF WORK. PERFORM REMEDIAL MEASURES AS REQUIRED TO REINSTATE EXISTING LANDSCAPE AND SOD TO THE ORIGINAL CONDITION, RESTORING THE AFFECTED AREA(S) TO THE LIMIT OF DISTURBANCE.
5. CONTRACTOR IS TO COORDINATE WITH THE APPROPRIATE COMPANIES AND AUTHORITIES WHEN REMOVING ANY UTILITY SERVICES.
6. ALL NEW EXTERIOR LIGHT FIXTURES ARE REQUIRED TO BE FULL CUT OFF. ALL LIGHT FIXTURES TO BE DIRECTED ONTO THE SITE AND WILL NOT INFRINGED UPON THE ADJACENT PROPERTIES.
7. PARKING SPACES RESERVED FOR THE PHYSICALLY HANDICAPPED MUST BE IDENTIFIED BY A SIGN, SUPPLIED & INSTALLED BY THE CONTRACTOR.
8. THE PORTIONS OF THE EXISTING DRIVEWAYS WITHIN THE MUNICIPAL BOULEVARDS WILL BE PAVED, PATCHED AND REPAIRED BY THE CONTRACTOR OF ANY DAMAGE AFFECTED BY NEW CONSTRUCTION AFTER COMPLETION OF NEW WORK. CONTRACTOR TO MATCH EXISTING GRADES.
9. ANY TOPSOIL AND/OR ORGANIC MATERIAL CAPABLE OF PRODUCING METHANE WILL BE REMOVED FROM THE SITE OR STOCKPILED FOR LANDSCAPING PURPOSES ONLY.
10. TOPSOIL AND SOD TO BE REINSTATED IN AREA OF CONSTRUCTION ZONE EXCEPT AT AREAS OF NEW ASPHALT.
11. ROOF DRAINS TO BE TIED INTO EXISTING STORM WATER DRAINAGE SYSTEM.

TREE PRESERVATION NOTES

1. ALL EXISTING TRESS WHICH ARE TO REMAIN SHALL BE FULLY PROTECTED WITH HOARDING ERECTED BEYOND THE DRIP LINE OF THE TREE CANOPY. GROUPS OF TREES AND OTHER EXISTING VEGETATION ARE TO BE PROTECTED WITH HOARDING AROUND THE ENTIRE AREA. AREAS WITHIN THE PROTECTIVE FENCING SHALL REMAIN UNDISTURBED AND SHALL NOT BE USED FOR THE STORAGE OF BUILDING MATERIALS AND EQUIPMENT.
2. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO PREVENT DAMAGE TO THE VEGETATION TO BE RETAINED.
3. WHERE ROOT SYSTEMS OF PROTECTED TREES ADJACENT TO CONSTRUCTION ARE EXPOSED OR DAMAGED THEY SHALL BE NEATLY TRIMMED AND THE AREA BACKFILLED WITH APPROPRIATE MATERIAL TO PREVENT DESICCATION.
4. ANY BACKFILLING OR TOPSOIL/STORAGE OF MATERIALS MUST NOT BE PLACED WITHIN THE LIMITS OF THE TREE PROTECTION ZONE.
5. ANY ROOTS OR BRANCHES THAT EXTEND BEYOND THE TREE PROTECTION ZONE WHICH REQUIRE PRUNING, MUST BE PRUNED BY A QUALIFIED ARBORIST AND MUST BE PERFORMED IN ACCORDANCE WITH GOOD ARBORICULTURE STANDARDS.
6. TREES THAT HAVE DIED OR HAVE BEEN DAMAGED BEYOND REPAIR, WILL BE REMOVED AND REPLACED WITH TREES OF A SIZE AND SPECIES AS APPROVED BY OWNER.
7. TREE PROTECTION HOARDING MUST NOT BE REMOVED UNTIL THE END OF COMPLETION OF NEW CONSTRUCTION WORK.

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

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5	RE-ISSUED FOR SITE PLAN AMENDMENT	OCT. 19, 2026	BBA
6	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
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NORTH

BBA
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

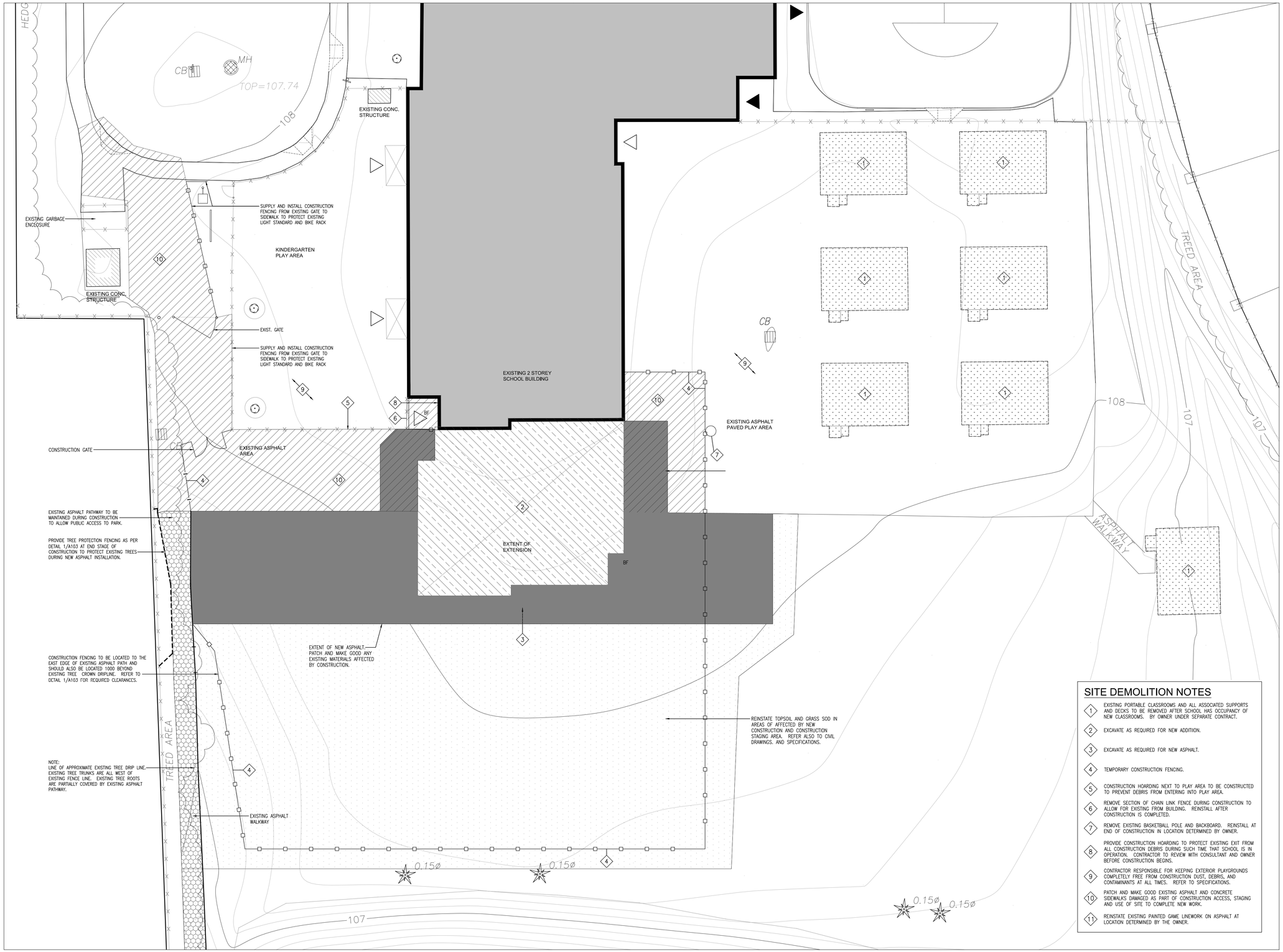
DRAWING:
SITE PLAN & SITE STATISTICS

WHITBY PLANNING - PRE-13-26

DESIGN BY:	RS
DRAWN BY:	RR
CHECKED BY:	RS
DATE:	NOV. 2026
SCALE:	AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CASSANDRA ERIN CAUTIUS
LICENCE 8891
NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A101



SITE DEMOLITION NOTES

1. EXISTING PORTABLE CLASSROOMS AND ALL ASSOCIATED SUPPORTS AND DECKS TO BE REMOVED AFTER SCHOOL HAS OCCUPANCY OF NEW CLASSROOMS. BY OWNER UNDER SEPARATE CONTRACT.
2. EXCAVATE AS REQUIRED FOR NEW ADDITIION.
3. EXCAVATE AS REQUIRED FOR NEW ASPHALT.
4. TEMPORARY CONSTRUCTION FENCING.
5. CONSTRUCTION HOARDING NEXT TO PLAY AREA TO BE CONSTRUCTED TO PREVENT DEBRIS FROM ENTERING INTO PLAY AREA.
6. REMOVE SECTION OF CHAIN LINK FENCE DURING CONSTRUCTION TO ALLOW FOR EXISTING FROM BUILDING. REINSTALL AFTER CONSTRUCTION IS COMPLETED.
7. REMOVE EXISTING BASKETBALL POLE AND BACKBOARD. REINSTALL AT END OF CONSTRUCTION IN LOCATION DETERMINED BY OWNER.
8. PROVIDE CONSTRUCTION HOARDING TO PROTECT EXISTING EXIT FROM ALL CONSTRUCTION DEBRIS DURING SUCH TIME THAT SCHOOL IS IN OPERATION. CONTRACTOR TO REVIEW WITH CONSULTANT AND OWNER BEFORE CONSTRUCTION BEGINS.
9. CONTRACTOR RESPONSIBLE FOR KEEPING EXTERIOR PLAYGROUNDS COMPLETELY FREE FROM CONSTRUCTION DUST, DEBRIS, AND CONTAMINANTS AT ALL TIMES. REFER TO SPECIFICATIONS.
10. PATCH AND MAKE GOOD EXISTING ASPHALT AND CONCRETE SIDEWALKS DAMAGED AS PART OF CONSTRUCTION ACCESS, STAGING AND USE OF SITE TO COMPLETE NEW WORK.
11. REINSTATE EXISTING PAINTED GAME LINEWORK ON ASPHALT AT LOCATION DETERMINED BY THE OWNER.

1/A102 ENLARGED DEMOLITION SITE PLAN
1:200

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3	RE-ISSUED FOR SITE PLAN AMENDMENT	OCT. 19, 2026	BBA
4	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
5	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

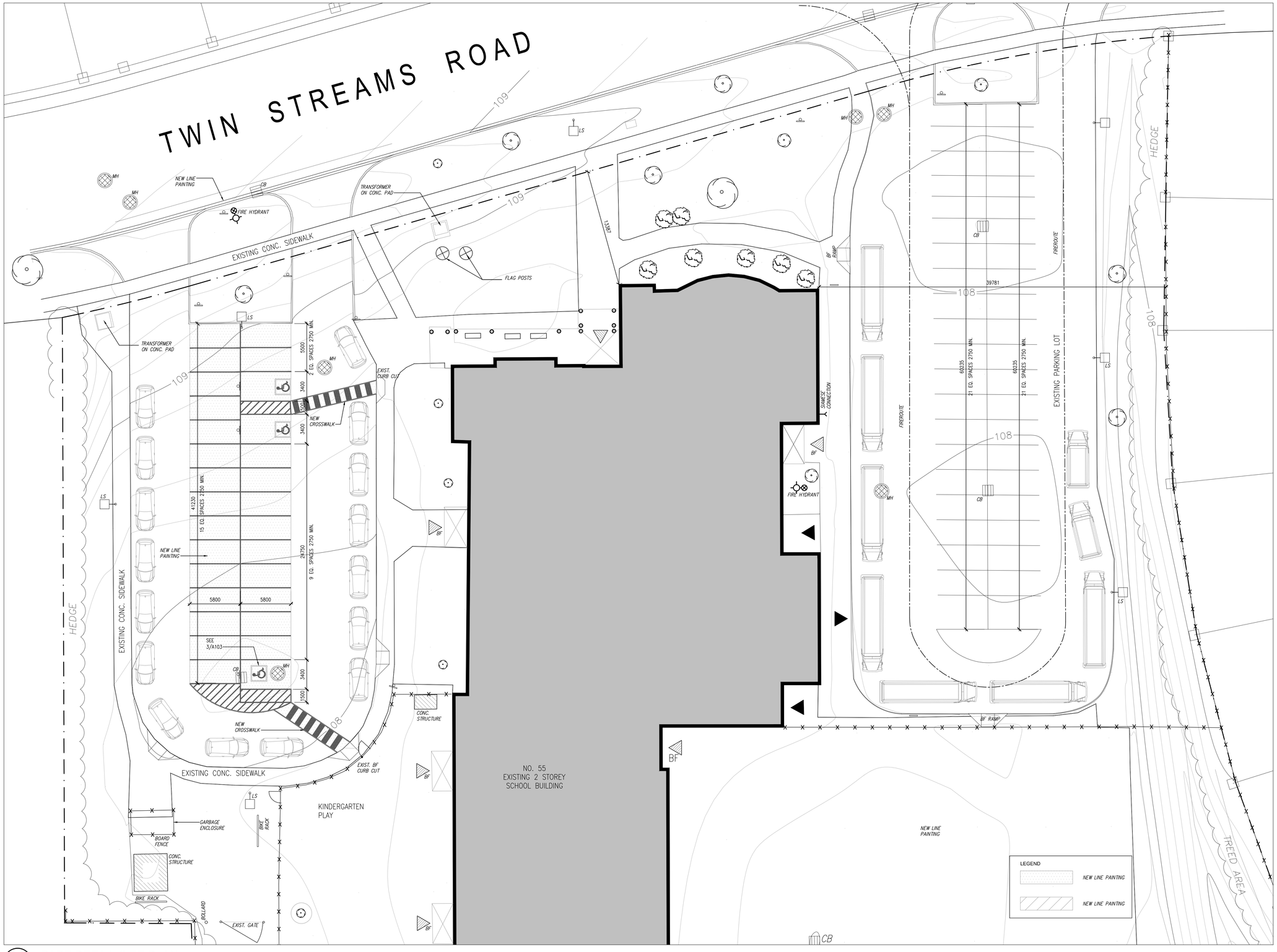
DRAWING:
ENLARGED DEMOLITION SITE PLAN

WHITBY PLANNING - PRE-13-26

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: AUG. 2026
SCALE: AS NOTED

SEAL: ONTARIO ASSOCIATION OF ARCHITECTS — CASSANDRA ERIN CAUTIUS — LICENCE 8991 — NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A102



1 A103 PART DETAIL SITE PLAN
1:200

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
2	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DRAWING:
PART DETAIL SITE PLAN

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL: ONTARIO ASSOCIATION OF ARCHITECTS — CAVENDO TENAX CAUTUS — LICENCE 8891 — NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A103



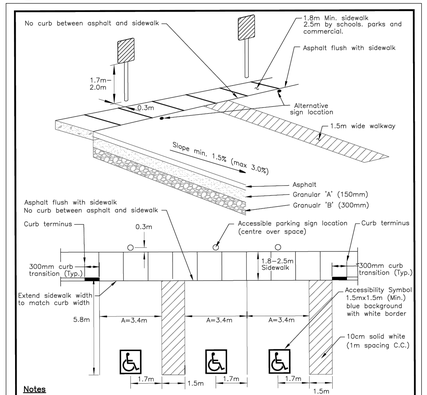
RB-93.
AS SPECIFIED PER ONTARIO TRAFFIC MANUAL. 60X120cm

4 / A104 BARRIER FREE PARKING SIGN
N.T.S.



RB-20.
AS SPECIFIED PER ONTARIO TRAFFIC MANUAL. 60X120cm

3 / A104 WRONG WAY SIGN "RB-20"
N.T.S.



Notes

1. Asphalt to be flush with sidewalk.
2. Sidewalk to be barrier free.
3. Refer to Town of Whitby Standard #208 for sidewalk detail.
4. Accessible parking sign to be minimum of 0.3m offset from sidewalk.Preferred location behind sidewalk, alternate location front of sidewalk. Signs placed in front of sidewalk shall include a 0.5 impressed concrete strip and 1.8m unobstructed sidewalk (Min.)
5. Sign location will be site specific.
6. Access aisles must be provided for all parking spaces but may be shared by two spaces.
7. Signage shall satisfy the Highway Traffic Act and Accessibility for Ontarians with Disabilities Act (AODA)

All dimensions in millimetres except where noted

The Corporation of the Town of Whitby		Engineering Services
Checked:	Accessibility Parking Proposed and Retrofit	Orig. Date: January 2009
Approved:		Revision No.: 4
Scale: N.T.S		Revision Date: May 2025
		DWG No. 413

2 / A104 PARKING PAINTED B.F. SYMBOL
NTS

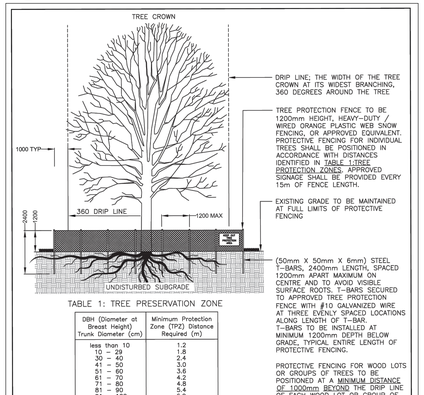


TABLE 1: TREE PRESERVATION ZONE

DBH (Diameter at Breast Height) Trunk Diameter (cm)	Minimum Protection Zone (TPZ) Distance Required (m)
less than 10	1.2
10 – 20	1.8
21 – 40	2.4
41 – 50	3.0
51 – 60	3.6
61 – 70	4.2
71 – 80	4.8
81 – 90	5.4
91 – 100	6.0
> 100	6cm / 1cm dia.

* measurement of DBH taken at 1.4m above grade
* TPZ distances measured from outside edge of trunk flare

NOTES:
1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED
2. ALL PROTECTIVE FENCING TO BE LOCATED AS DIRECTED BY I.S.A CERTIFIED ARBORIST
3. TPZ FENCING SHALL NOT BE ATTACHED TO TREES
4. ALL TREE PROTECTION SHALL BE IN PLACE AND MUST BE INSPECTED AND APPROVED BY THE TOWN PRIOR TO ANY CONSTRUCTION ACTIVITIES, AND REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES HAVE CONCLUDED, OR AS DIRECTED BY THE CONSULTING ARBORIST
5. NO CONSTRUCTION ACTIVITY, MATERIAL STORAGE, GRADE CHANGES, SURFACE TREATMENT OR EXCAVATIONS OF ANY KIND IS PERMITTED WITHIN THE TREE PROTECTION ZONE
6. REFER TO TREE INVENTORY & PRESERVATION PLAN FOR REQUIRED FENCING TYPE
7. REFER TO TOWN OF WHITBY STANDARD #702 FOR GENERAL TREE PROTECTION NOTES

THE CORPORATION OF THE TOWN OF WHITBY		PLANNING & DEVELOPMENT DEPARTMENT
CHECKED:	LIGHT DUTY TREE PRESERVATION FENCE	ENG. DATE: JANUARY 2021
APPROVED:		REVISION No.: 002
SCALE: N.T.S		REVISION DATE: MAY, 2022
		DWG No. 700

1 / A104 TREE HOARDING DETAIL
NTS

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Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
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BBA
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

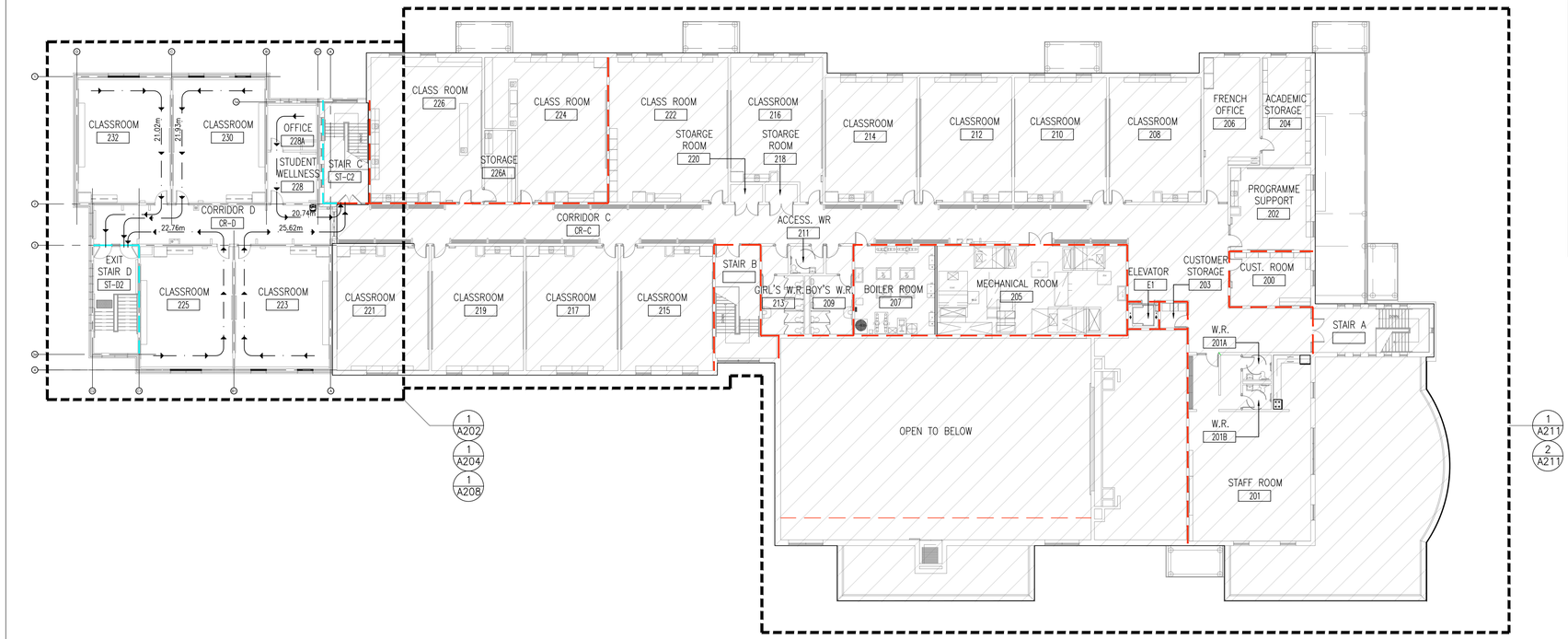
DRAWING:
SITE DETAILS

WHITBY PLANNING - PRE-13-26

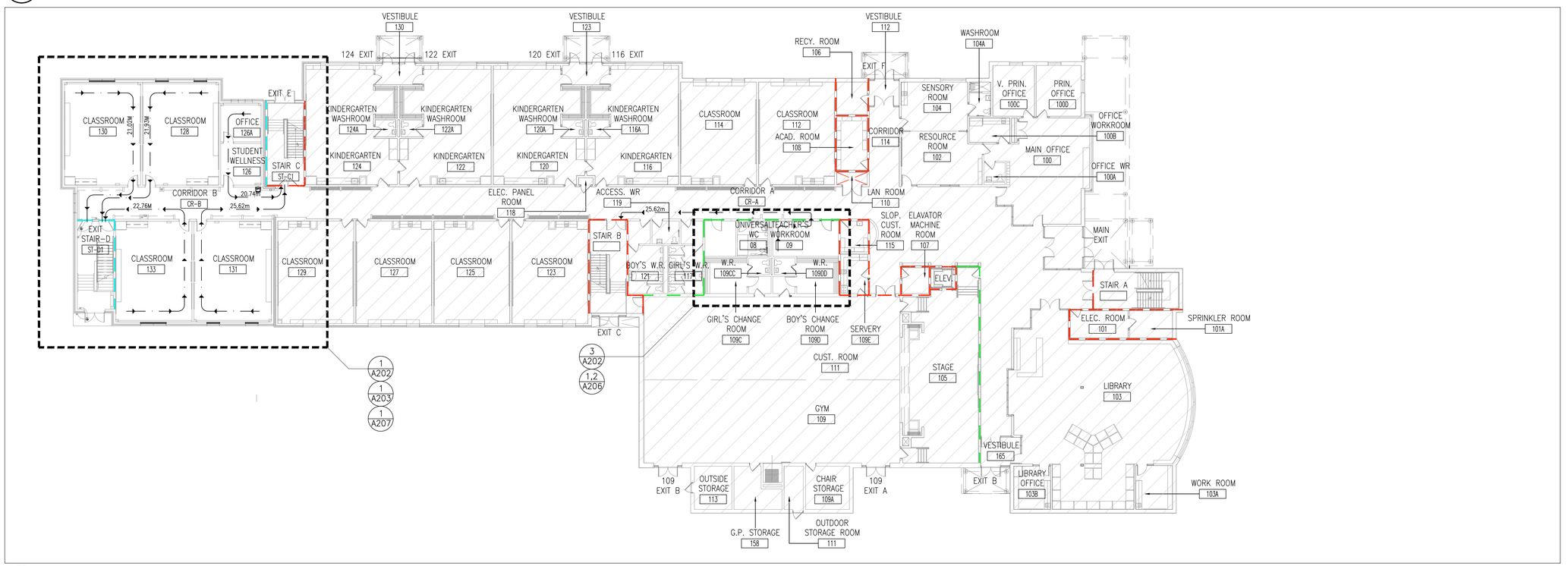
DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CASSANDRA ERIN CAUTIUS
LICENCE
8891
NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A104



2 A201 SECOND FLOOR KEY PLAN & LIFE SAFETY PLAN
1:200



1 A201 GROUND FLOOR KEY PLAN & LIFE SAFETY PLAN
1:200

FIRE SEPARATION LEGEND

WALLS & FLOORS	DOORS & CLOSURES
EXIST. 0 HR. FIRE RESISTANCE RATING (F.R.R.) FULL HT.	0 HR. F.R.R.
EXIST. 30 MIN. FIRE RESISTANCE RATING (F.R.R.)	20 MIN. F.R.R.
1 HR. FIRE RESISTANCE RATING (F.R.R.) 190 STANDARD CONCRETE BLOCK	45 MIN. F.R.R.

OCCUPANCY LEGEND

20P — INDICATES ROOM OCCUPANT LOAD

2500 — INDICATES TOTAL OCCUPANT LOAD

DIRECTION OF TRAVEL TO EXIT

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NORTH

BBA
BARRY BRYAN ASSOCIATES

PROJECT:
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ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

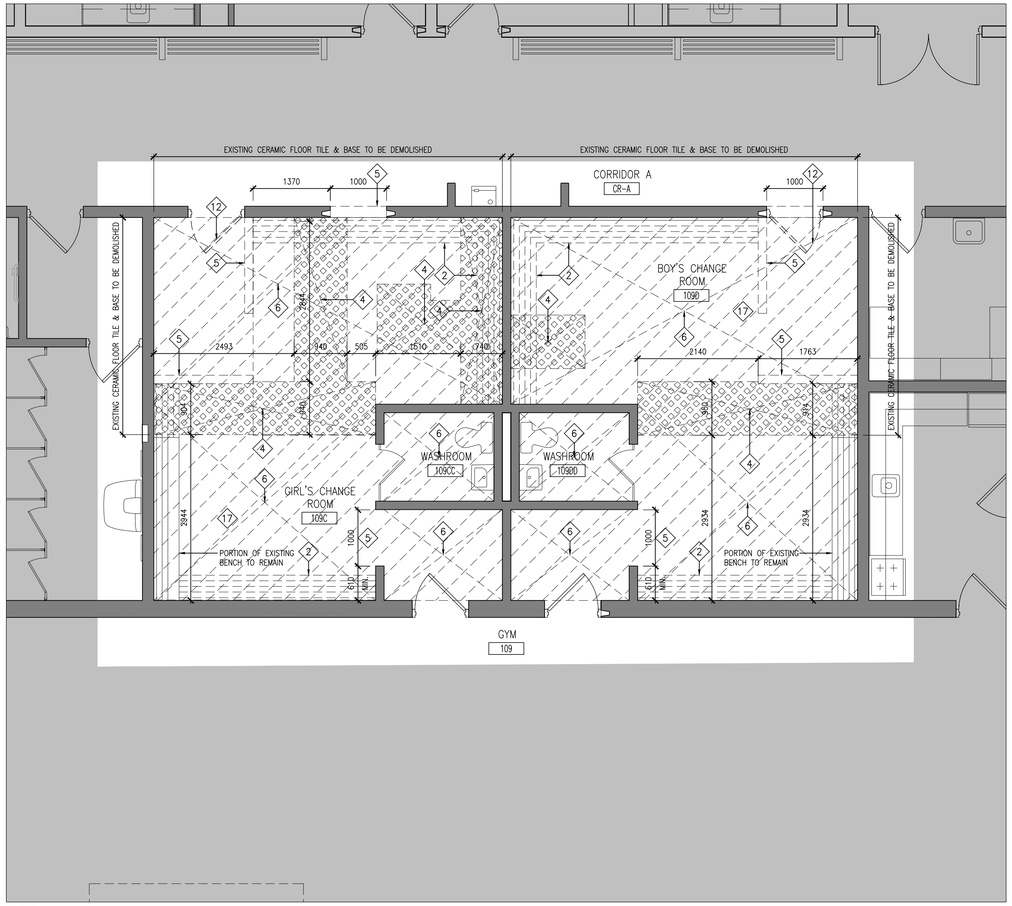
DRAWING:
OVERALL KEY PLANS & LIFE SAFETY PLANS

WHITBY PLANNING - PRE-13-26

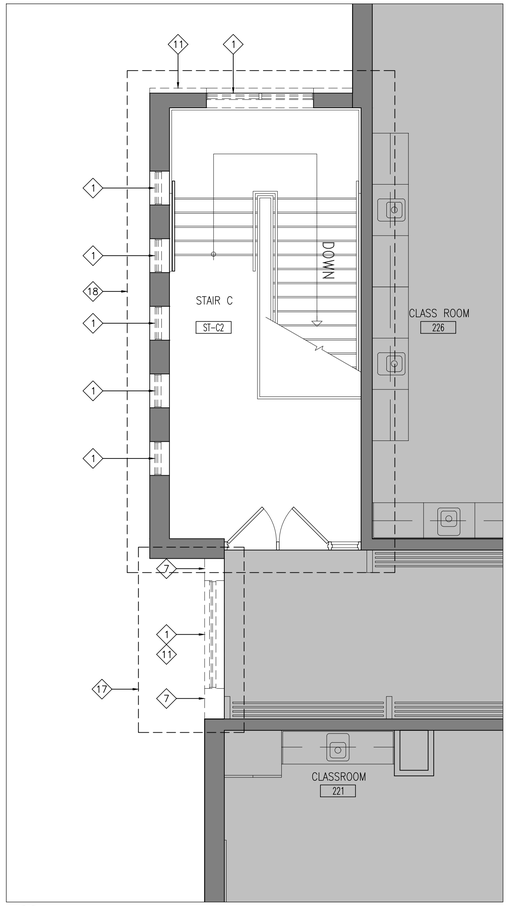
DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL: ONTARIO ASSOCIATION OF ARCHITECTS — CASSANDRA ERIN CAUTIUS — LICENCE 8891 — NOV. 11, 2026

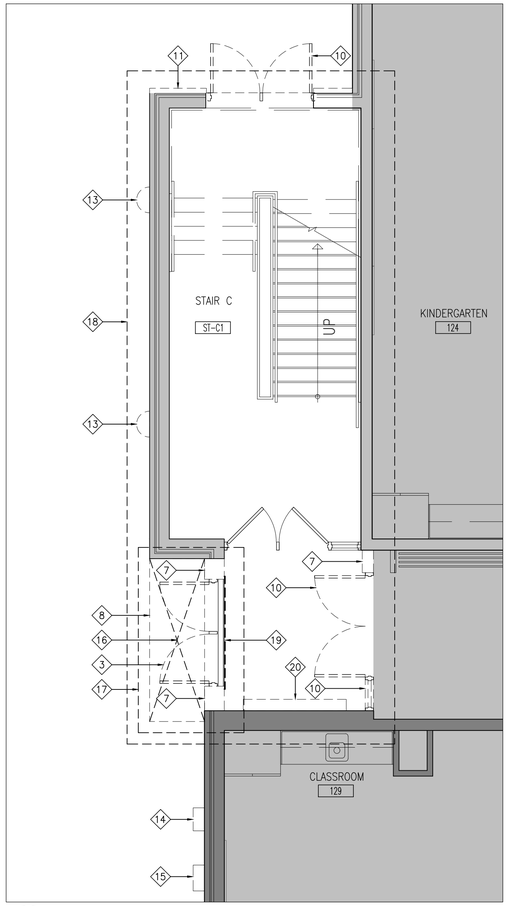
PROJECT NO: 25062
DRAWING NO: A201



3 A202 PART FIRST FLOOR DEMOLITION PLAN
1:50



2 A202 PART SECOND FLOOR DEMOLITION PLAN
1:50



1 A202 PART FIRST FLOOR DEMOLITION PLAN
1:50

GENERAL DEMOLITION NOTES

1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
3. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, LANDSCAPE OR PART THEREOF.
4. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
5. ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.
6. PROVIDE ALL SHORING AS REQUIRED. SHORING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
7. NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT.
8. PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL OR CAUSE OTHERS TO FALL.
9. MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES.
10. REMOVAL OF EXISTING FLOOR FINISHES IS TO INCLUDE COMPLETE REMOVAL OF BASE AND ALL MORTAR AND ADHESIVES AND PREPARATION OF EXISTING SUBSTRATES TO RECEIVE NEW FLOORING, SATISFACTORY TO THE MANUFACTURER OF NEW FLOOR FINISHES. ALLOW FOR EXCESSIVE LEVELING OF SLABS.
11. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
12. SAWCUT, BREAK OUT AND MAKE GOOD ALL EXISTING FLOOR SLABS WHERE REQUIRED TO INSTALL NEW UNDERGROUND PLUMBING AND OTHER BURIED SERVICES AS INDICATED ON MECHANICAL AND ELECTRICAL DRAWINGS.
13. MAINTAIN EXISTING FIRE RATINGS.
14. REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.
15. REMOVE ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.
16. CLEAN AND REPAIR ALL EXISTING SURFACES TO REMAIN, AS NECESSARY TO RECEIVE NEW FINISHES.
17. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
18. DISPOSE OF MATERIALS OFF SITE.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR / REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
20. PATCH, REPAIR, MAKE GOOD AND PAINT WALL WHERE WALLS WHERE HEATERS HAVE BEEN REMOVED. COORDINATE WITH ELECTRICAL AND MECHANICAL.

DEMOLITION NOTES

1. REMOVE AND DISPOSE EXISTING PUNCH WINDOW COMPLETE, INCLUDING FRAME, GLAZING AND ANCHORS. PREPARE OPENING FOR NEW WORK.
2. REMOVE EXISTING MILLWORK AS SHOWN. REINSTALL IN PART IN NEW LOCATIONS AS INDICATED ON 1/A206. PATCH AND PREPARE SURFACES FOR NEW WORK.
3. REMOVE EXISTING DOOR, FRAME, AND HARDWARE. PATCH, REPAIR, AND MAKE GOOD SURFACES FOR NEW WORK.
4. SAW-CUT AND REMOVE EXISTING CONCRETE SLAB ON GRADE FOR NEW PLUMBING INSTALLATION AND STRUCTURAL WORK. COORDINATE WITH STRUCTURAL & PLUMBING DRAWINGS. PATCH REPAIR 7 MAKE GOOD ALL SURFACES.
5. SAW-CUT AND REMOVE PORTION OF EXISTING CONCRETE BLOCK WALL AS REQUIRED. COORDINATE WITH STRUCTURAL DRAWINGS AND INSTALL REQUIRED LINTEL/SUPPORTS.
6. REMOVE & DISPOSE OF EXISTING GYPSUM BOARD CEILING, LIGHTS & GRILLES TO EXTENT INDICATED IN PLAN. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
7. REMOVE PORTION OF EXISTING EXTERIOR WALL ASSEMBLY AS INDICATED, INCLUDING EXTERIOR CLADDING, SHEATHING, FRAMING (AS REQUIRED), INSULATION, AIR/VAPOUR BARRIER, FLASHINGS, SEALANTS, AND ASSOCIATED COMPONENTS.
8. REMOVE EXISTING FROST SLAB AS REQUIRED TO COMPLETE NEW WORK. SHORE STRUCTURE AS REQUIRED TO COMPLETE NEW WORK.
9. DISCONNECT & REMOVE ALL EXISTING PLUMBING FIXTURES IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED SUPPLY, RETURN, VENT PIPING, SUPPORTS, AND ACCESSORIES, UNLESS NOTED OTHERWISE. CAP OFF ALL SUPPLY PIPES.
10. REMOVE GLAZING SYSTEM IN FULL, INCLUDING FRAMES, GLASS, SEALANTS, DOORS, STRUCTURAL FRAMING AND ALL ASSOCIATED COMPONENTS.
11. REMOVE EXISTING BRICK VENEER AS SHOWN. EXISTING VAPOUR BARRIER INSULATION TO REMAIN.
12. REMOVE EXISTING DOOR & FRAME. MAKE GOOD ALL SURFACES & PREPARE FOR NEW WORK.
13. REMOVE EXISTING BASKETBALL HOOPS AND TURN OVER TO THE SCHOOL BOARD
14. REMOVE EXISTING EXTERIOR LIGHT FIXTURES AND TURN OVER TO THE SCHOOL BOARD
15. REMOVE EXISTING EXTERIOR 'PA' SPEAKERS AND TURN OVER TO THE SCHOOL BOARD
16. REMOVE EXISTING FROST SLAB. EXISTING FOUNDATION WALL TO REMAIN.
17. EXISTING WALL TO REMAIN IN PLACE UNTIL END OF 2026/2027 SCHOOL YEAR.
18. SCOPE OF WORK IN EXISTING STAIRWELL TO COMMENCE AT THE END OF 2026/2027 SCHOOL YEAR.
19. PROVIDE HOARDING AT EXISTING DOOR TO PREVENT USE UNTIL END OF 2026/2027 SCHOOL YEAR.
20. REMOVE EXISTING CABINET HEATER c/w WIRES, PIPES AND ALL OTHER ACCESSORIES. PATCH, REPAINT AND MAKE GOOD TO MATCH ADJACENT SURFACE.
21. CONTRACTOR TO COMPLETE THE RENOVATION OF CHANGE ROOMS AFTER THE 2026/2027 SCHOOL YEAR ENDS. IF WORK IN THIS AREA IS REQUIRED DURING SCHOOL YEAR CONTRACTOR TO ARRANGE WITH OWNER TO WORK OUTSIDE OF SCHOOL OPERATION HOURS.

DEMOLITION LEGEND

- EXISTING WALL, PARTITION OR COLUMN TO REMAIN
- DENOTES DEMOLITION OF BUILDING ELEMENT/PARTITIONS
- EXISTING DOOR, FRAME AND TRIM TO REMAIN
- TEMPORARY HOARDING WALL FROM FLOOR TO ROOF DECK. 13 GYPSUM BOARD 92 STEEL STUDS AT 400 C/C C/W 89 SOUND BATTS BETWEEN CONT. VAPOUR BARRIER 13 GYPSUM BOARD
- SHADED DENOTES NOT PART OF THE CONTRACT
- HATCH DENOTES EXTENT OF EXISTING CEILING TO BE REMOVED
- HATCH DENOTES EXTENT OF CONC. SLAB TO BE SAWCUT, BREAKOUT, & REMOVED AS REQUIRED FOR NEW FLOORING, MECHANICAL, & ELECTRICAL SERVICES. PATCH & MAKE GOOD TO RECEIVE NEW FINISHES.

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Learning and Living in Faith

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NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DRAWING:
PART DEMOLITION PLANS

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CHANDRA BRIN CAUTIUS
LICENCE 8891
NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A202

FLOOR PLAN NOTATION LEGEND

CORRIDOR
CA — ROOM NAME & NUMBER

WX — EXTERIOR WALL TYPE

PX — INETRIOR PARTITION OR FURRING TYPE

G01 — EXTERIOR GLAZING NUMBER

SC01 — INTERIOR GLAZED SCREEN NUMBER

101 — DOOR NUMBER

MW-1 — MILLWORK NUMBER

1 / A200 — WALL SECTION REFERENCE

1 / A200 — BUILDING SECTION/ EXTERIOR ELEVATION REFERENCE

C / 1 / A901 / A / B — INTERIOR ELEVATION REFERENCE NUMBER

FF2 / FF1 — FLOOR FINISH TYPE (SEE ALSO ROOM FINISH SCHEDULE)

F.R.R. — FIRE RESISTANCE RATING

FD — FLOOR DRAIN

TD — TRENCH DRAIN

CP — CONTROL PANEL – SEE ELECTRICAL DRAWINGS

WB — WHITE BOARD

TB — TACK BOARD

RWL — RAIN WATER LEADER

CR — COAT RACK

FEC — FIRE EXTINGUISHER CABINET

RS — ROLLER SHADES

WALL TYPES SCHEDULE

W1 — 90mm BRICK VENEER MASONRY
25mm AIR SPACE
75mm RIGID INSULATION R18 ON
SELF ADHERED AIR VAPOUR BARRIER ON
190mm CONCRETE BLOCK

W2 — ALUMINUM PANEL
AIR SPACE
75mm RIGID INSULATION R18
SELF ADHERED AIR VAPOUR BARRIER ON
190mm CONCRETE BLOCK

PARTITION TYPES SCHEDULE

P1 — 190mm CONCRETE BLOCK

P2 — 140mm CONCRETE BLOCK

P3 — 90mm CONCRETE BLOCK

P4 — 92mm METAL STUDS AT 406 O.C.
16mm WATER RESISTANT GYPSUM BOARD

PARTITION & FURRING NOTES

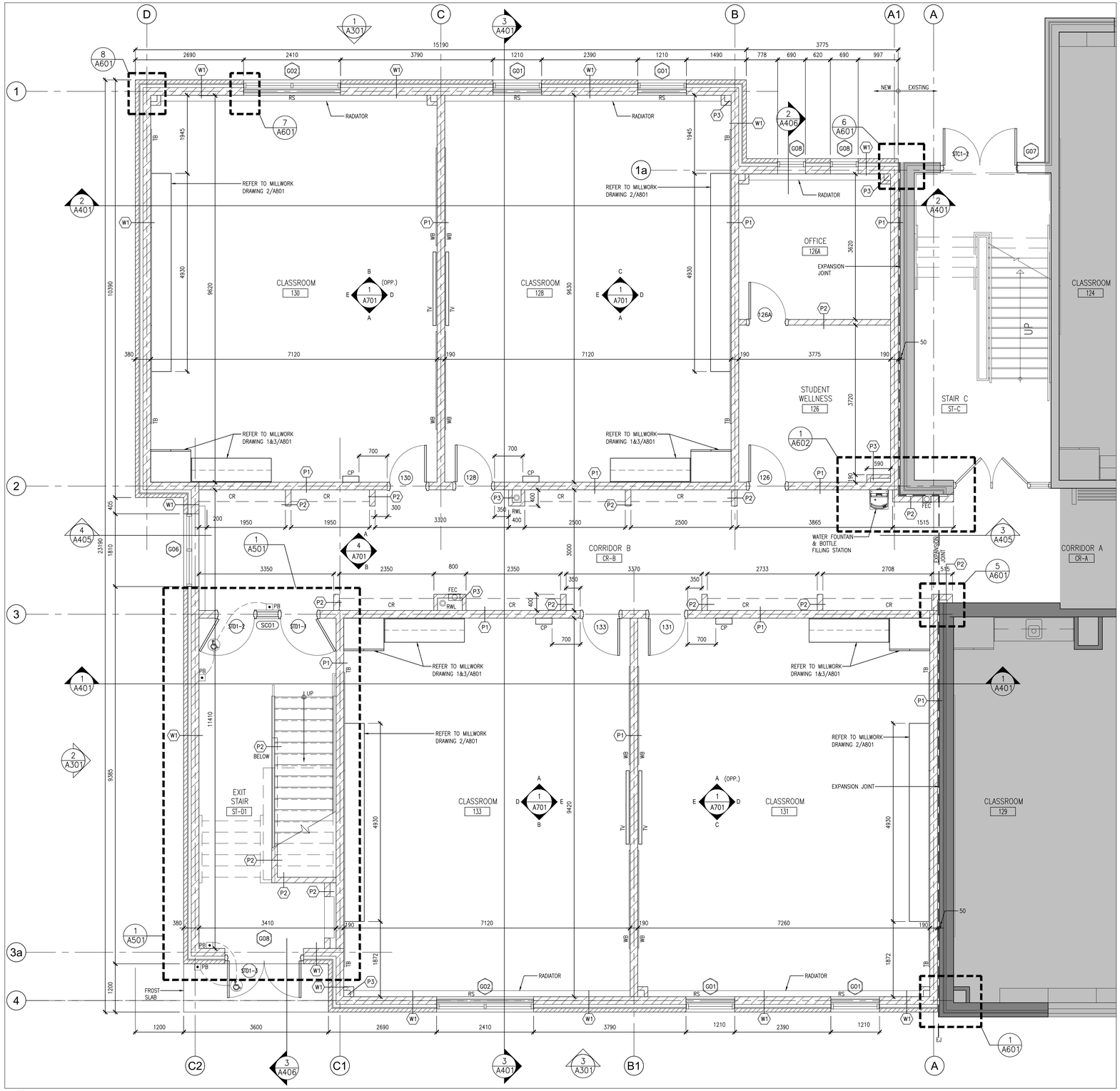
1. UNLESS OTHERWISE NOTED, ALL PARTITIONS TERMINATE AT UNDERSIDE OF FLOOR OR ROOF STRUCTURE, U.N.O.
2. ALL GYPSUM BOARD BULKHEADS AND PARTITIONS ABOVE MASONRY WALLS OR GLAZING TO BE BRACED AS REQUIRED (TYP.).
3. COORDINATE AND SITE VERIFY DIMENSIONS OF ALL NEW OPENINGS AND DEMOLITION OF EXISTING EXTERIOR MASONRY WALLS. COORDINATE DEMOLITION WITH EXISTING GROUT LINES.
4. ALL ENDS OF TERMINATED EXPOSED MASONRY BLOCK WALLS MUST BE GROUTED SOLID INCLUDING DOORS/ OPENINGS.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INTERFERENCE COORDINATION BETWEEN THE MASONRY SUB TRADE AND MECHANICAL/ ELECTRICAL TRADES. COORDINATION SHALL BE COMPLETE TO NOT DELAY THE CONSTRUCTION SCHEDULE.
6. ALL OUTSIDE CORNERS OF EXPOSED INTERIOR BLOCK WALLS TO BE BULLNOSED BLOCKS. GROUNDING CORNERS ON A JIG WILL BE REJECTED.
7. ALL FULL HEIGHT MASONRY PARTITIONS SHALL BE CONNECTED TO THE U/S ROOF DECK U.N.O.
8. PROVIDE FIRE STOPPING / SMOKE SEAL AT TOPS OF ALL RATED PARTITIONS / FURRING TYPES AT UNDERSIDE OF ROOF DECK c/w INFILL OF FLUTES.
9. ALL PENETRATIONS THROUGH RATED PARTITIONS / FIREWALL ARE TO BE FIRESTOPPED WITH LISTED FIRESTOPPING SYSTEM.

TYPICAL NOTES

1. FLOOR DRAIN AND CLEAN OUT LOCATIONS TO BE COORDINATED WITH MECHANICAL, ARCHITECTURAL AND TILE LAYOUT.
2. ACCESS PANEL LOCATIONS TO BE COORDINATED WITH MECHANICAL, ARCHITECTURAL AND TILE LAYOUT.

FLOOR ASSEMBLY

127mm CONCRETE SLAB ON GRADE



1 / A203 — PART FIRST FLOOR PLAN
1:50

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EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DRAWING:
PART FIRST FLOOR PLAN

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS	SEAL: ONTARIO ASSOCIATION OF ARCHITECTS CASSANDRA ERIN CAUTIUS LICENCE 8891 NOV. 11, 2026
DRAWN BY: RR	
CHECKED BY: RS	
DATE: NOV. 2026	
SCALE: AS NOTED	
PROJECT NO: 25062	DRAWING NO: A203

FLOOR PLAN NOTATION LEGEND

CORRIDOR / CA	ROOM NAME & NUMBER
WX	EXTERIOR WALL TYPE
PX	INETRIOR PARTITION OR FURRING TYPE
G01	EXTERIOR GLAZING NUMBER
SC01	INTERIOR GLAZED SCREEN NUMBER
101	DOOR NUMBER
MW-1	MILLWORK NUMBER
1 / A200	WALL SECTION REFERENCE
1 / A200 D	BUILDING SECTION/ EXTERIOR ELEVATION REFERENCE
C 1 / A901 A B	INTERIOR ELEVATION REFERENCE NUMBER
FF2 FF1	FLOOR FINISH TYPE (SEE ALSO ROOM FINISH SCHEDULE)
F.R.R.	FIRE RESISTANCE RATING
FD	FLOOR DRAIN
TD	TRENCH DRAIN
CP	CONTROL PANEL – SEE ELECTRICAL DRAWINGS
WB	WHITE BOARD
TB	TACK BOARD
RWL	RAIN WATER LEADER
CR	COAT RACK
FEC	FIRE EXTINGUISHER CABINET
RS	ROLLER SHADES

WALL TYPES SCHEDULE

W1 (380)	90mm BRICK VENEER MASONRY 25mm AIR SPACE 75mm RIGID INSULATION R18 ON SELF ADHERED AIR VAPOUR BARRIER ON 190mm CONCRETE BLOCK
W2 (380)	ALUMINUM PANEL AIR SPACE 75mm RIGID INSULATION R18 SELF ADHERED AIR VAPOUR BARRIER ON 190mm CONCRETE BLOCK

PARTITION TYPES SCHEDULE

P1 (190)	190mm CONCRETE BLOCK
P2 (140)	140mm CONCRETE BLOCK
P3 (90)	90mm CONCRETE BLOCK
P4 (105)	92mm METAL STUDS AT 406 O.C. 16mm WATER RESISTANT GYPSUM BOARD

PARTITION & FURRING NOTES

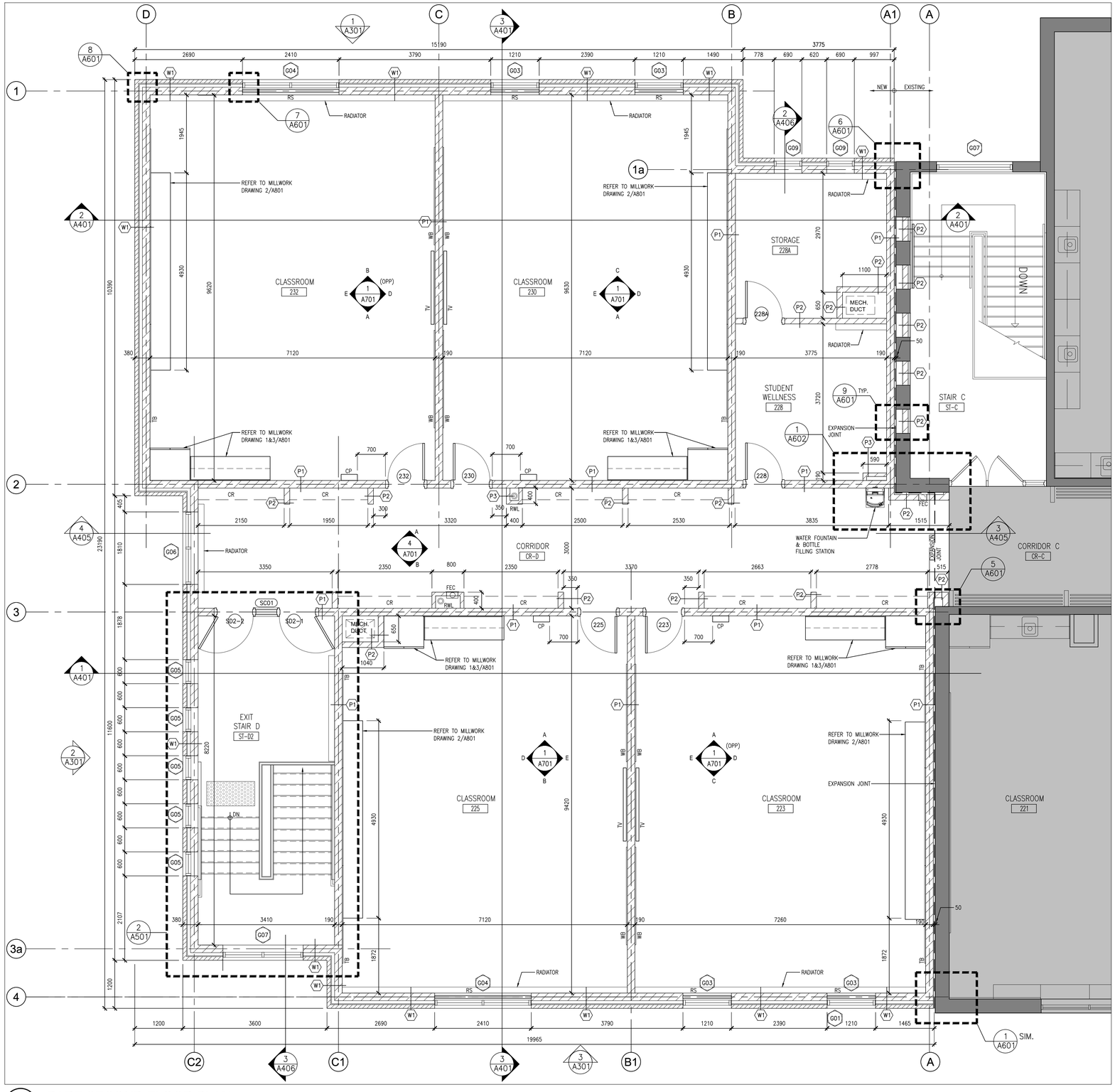
1. UNLESS OTHERWISE NOTED, ALL PARTITIONS TERMINATE AT UNDERSIDE OF FLOOR OR ROOF STRUCTURE, U.N.O.
2. ALL GYPSUM BOARD BULKHEADS AND PARTITIONS ABOVE MASONRY WALLS OR GLAZING TO BE BRACED AS REQUIRED (TYP.).
3. COORDINATE AND SITE VERIFY DIMENSIONS OF ALL NEW OPENINGS AND DEMOLITION OF EXISTING EXTERIOR MASONRY WALLS. COORDINATE DEMOLITION WITH EXISTING GROUT LINES.
4. ALL ENDS OF TERMINATED EXPOSED MASONRY BLOCK WALLS MUST BE GROUTED SOLID INCLUDING DOORS/ OPENINGS.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INTERFERENCE COORDINATION BETWEEN THE MASONRY SUB TRADE AND MECHANICAL/ ELECTRICAL TRADES. COORDINATION SHALL BE COMPLETE TO NOT DELAY THE CONSTRUCTION SCHEDULE.
6. ALL OUTSIDE CORNERS OF EXPOSED INTERIOR BLOCK WALLS TO BE BULLNOSED BLOCKS. GROUNDING CORNERS ON A JIG WILL BE REJECTED.
7. ALL FULL HEIGHT MASONRY PARTITIONS SHALL BE CONNECTED TO THE U/S ROOF DECK U.N.O.
8. PROVIDE FIRE STOPPING / SMOKE SEAL AT TOPS OF ALL RATED PARTITIONS / FURRING TYPES AT UNDERSIDE OF ROOF DECK c/w INFILL OF FLUTES.
9. ALL PENETRATIONS THROUGH RATED PARTITIONS / FIREWALL ARE TO BE FIRESTOPPED WITH LISTED FIRESTOPPING SYSTEM.

TYPICAL NOTES

1. FLOOR DRAIN AND CLEAN OUT LOCATIONS TO BE COORDINATED WITH MECHANICAL, ARCHITECTURAL AND TILE LAYOUT.
2. ACCESS PANEL LOCATIONS TO BE COORDINATED WITH MECHANICAL, ARCHITECTURAL AND TILE LAYOUT.

FLOOR ASSEMBLY

38mm COMPOSITE DECK c/w
64mm CONCRETE TOPPING &
1 HR CEMENTITIOUS FIREPROOFING



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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR 30% REVIEW	JUNE 25, 2026	BBA
2	ISSUED FOR SITE PLAN AGREEMENT	AUG. 25, 2026	BBA
3	ISSUED FOR 80% REVIEW	SEP. 16, 2026	BBA
4	RE-ISSUED FOR SITE PLAN AMENDMENT	OCT. 19, 2026	BBA
5	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
6	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

NORTH

BBA
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DRAWING:
PART SECOND FLOOR PLAN

WHITBY PLANNING - PRE-13-26

DESIGN BY:	RS
DRAWN BY:	RR
CHECKED BY:	RS
DATE:	NOV. 2026
SCALE:	AS NOTED

SEAL: ONTARIO ASSOCIATION OF ARCHITECTS — CASSANDRA ERIN CAUTIUS — LICENCE 8891 — NOV. 11, 2026

PROJECT NO:	DRAWING NO:
25062	A204

ROOF TYPE SCHEDULE

R1 — ROOF SYSTEM R1 (FROM TOP TO BOTTOM)
9mm BALLAST/AGGREGATE, SNOW WHITE CALCITE
TYPE II ASPHALT FLOOD COAT
4 PLIES BUILT IV FIBREGLASS ROOF FELT MEMBRANE IN TYPE 2 ASPHALT
1 PLY #15 ASPHALT SATURATED ROOFING FELT IN TYPE 2 ASPHALT
6.4mm DENSDECK PRIME UNDERLAYMENT BOARD IN TYPE 2 ASPHALT
TAPERED INSULATION, WHERE INDICATED
INSULATION 2–75mm LAYERS (SLOPING INSULATION WHERE REQUIRED)
VAPOUR RETARDER
12.7mm DENSDECK PRIME UNDERLAYMENT BOARD
ROOF STRUCTURE STEEL DECK

ROOF NOTATION LEGEND

R1 — ROOF TYPE (REFER TO ROOF TYPE SCHEDULE & SPECIFICATION)

ROOF DATUM 4000 — ROOF DATUM (UNDERSIDE OF STEEL ROOF DECK @ HIGH POINT

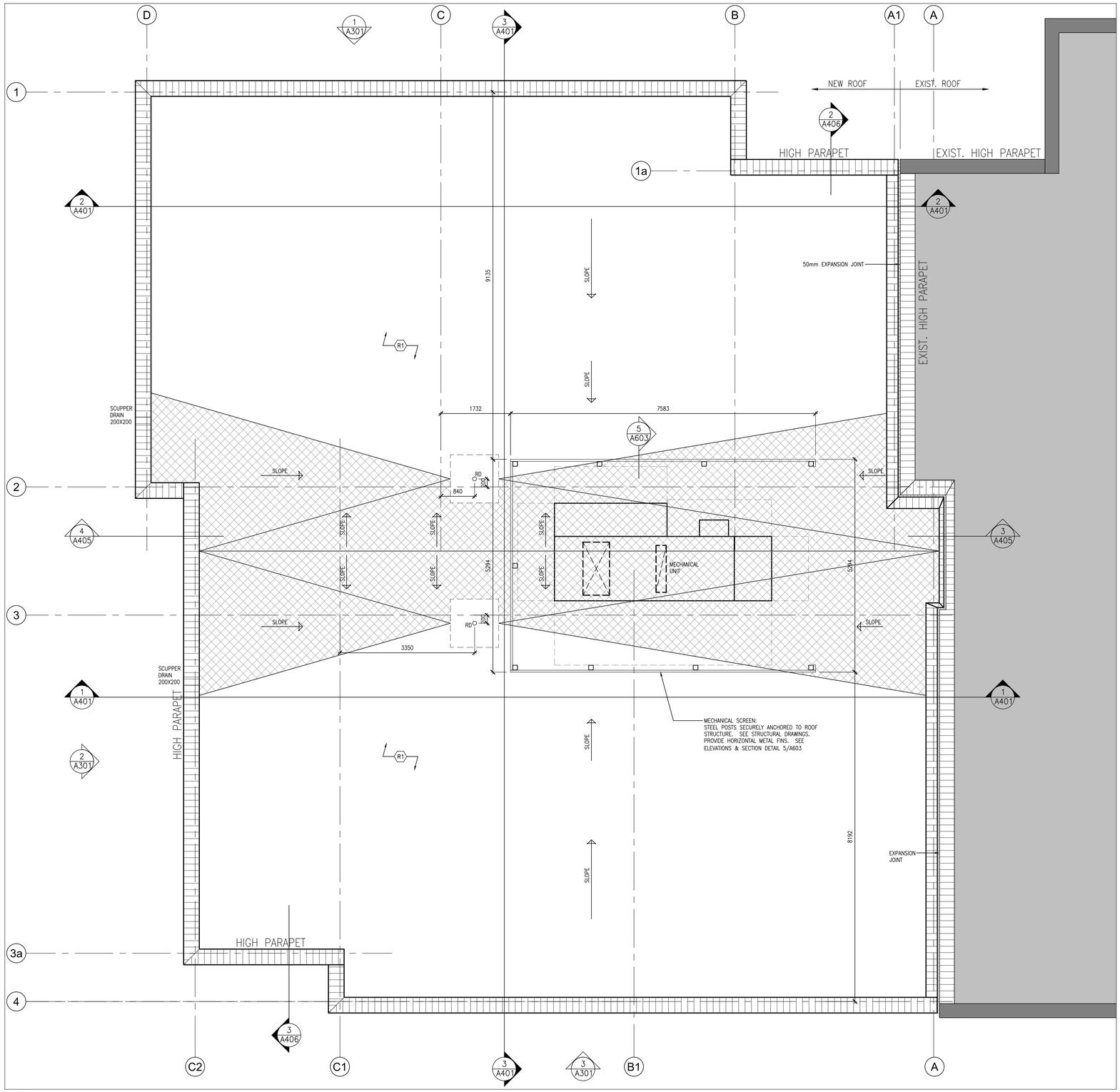
+ −150 — SPOT ELEVATION OF UNDERSIDE OF ROOF DECK RELATIVE TO ROOF DATUM

INDICATE DIRECTION OF ROOF DRAINAGE (MIN. 1.5% SLOPE)

INDICATES AREA OF ROOF WITH TAPERED INSULATION (MIN. 2% SLOPE)

RD — ROOF DRAIN

SD — SCUPPER DRAIN (200x200). SEE DETAIL 6/A603



1 A205 — PART ROOF PLAN
1:50

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

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5	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
6	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

NORTH

BBA
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DRAWING:
PART ROOF PLAN

WHITBY PLANNING - PRE-13-26

DESIGN BY:	RS
DRAWN BY:	RR
CHECKED BY:	RS
DATE:	NOV. 2026
SCALE:	AS NOTED

SEAL: ONTARIO ASSOCIATION OF ARCHITECTS — CASSANDRA ERIN CAUTIUS — LICENCE 8891 — NOV. 11, 2026

PROJECT NO:	DRAWING NO:
25062	A205

FLOOR PLAN NOTATION LEGEND

CORRIDOR / CA	ROOM NAME & NUMBER
WX	EXTERIOR WALL TYPE
PX	INETRIOR PARTITION OR FURRING TYPE
G01	EXTERIOR GLAZING NUMBER
SC01	INTERIOR GLAZED SCREEN NUMBER
101	DOOR NUMBER
MW-1	MILLWORK NUMBER
1 / A200	WALL SECTION REFERENCE
1 / A200 D	BUILDING SECTION/ EXTERIOR ELEVATION REFERENCE
C 1 / A901 A B	INTERIOR ELEVATION REFERENCE NUMBER
FF2 / FF1	FLOOR FINISH TYPE (SEE ALSO ROOM FINISH SCHEDULE)
F.R.R.	FIRE RESISTANCE RATING
FD	FLOOR DRAIN
TD	TRENCH DRAIN
CP	CONTROL PANEL – SEE ELECTRICAL DRAWINGS
WB	WHITE BOARD
TB	TACK BOARD
RWL	RAIN WATER LEADER
CR	COAT RACK
FEC	FIRE EXTINGUISHER CABINET

WALL TYPES SCHEDULE

W1 (380)	90mm BRICK VENEER MASONRY 25mm AIR SPACE 75mm RIGID INSULATION R18 ON SELF ADHERED AIR VAPOUR BARRIER ON 190mm CONCRETE BLOCK
W2 (380)	ALUMINUM PANEL AIR SPACE 75mm RIGID INSULATION R18 SELF ADHERED AIR VAPOUR BARRIER ON 190mm CONCRETE BLOCK

PARTITION TYPES SCHEDULE

P1 (190)	190mm CONCRETE BLOCK
P2 (140)	140mm CONCRETE BLOCK
P3 (90)	90mm CONCRETE BLOCK
P4 (105)	92mm METAL STUDS AT 406 O.C. 16mm WATER RESISTANT GYPSUM BOARD

PARTITION & FURRING NOTES

1. UNLESS OTHERWISE NOTED, ALL PARTITIONS TERMINATE AT UNDERSIDE OF FLOOR OR ROOF STRUCTURE, U.N.O.
2. ALL GYPSUM BOARD BULKHEADS AND PARTITIONS ABOVE MASONRY WALLS OR GLAZING TO BE BRACED AS REQUIRED (TYP.).
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9. ALL PENETRATIONS THROUGH RATED PARTITIONS / FIREWALL ARE TO BE FIRESTOPPED WITH LISTED FIRESTOPPING SYSTEM.

TYPICAL NOTES

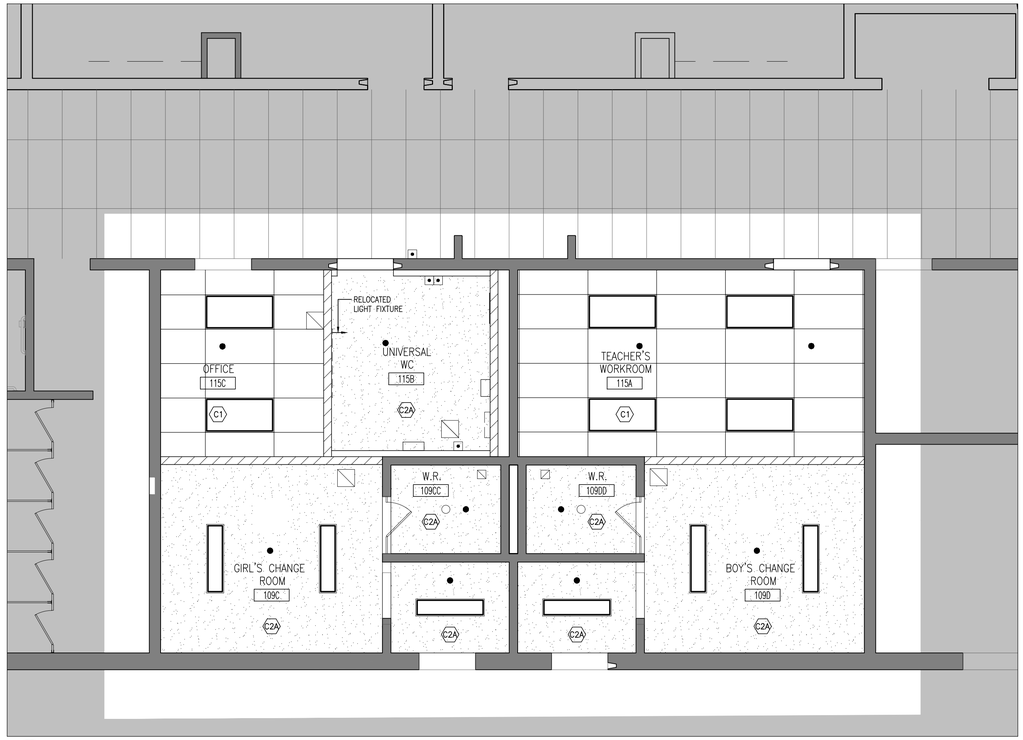
1. FLOOR DRAIN AND CLEAN OUT LOCATIONS TO BE COORDINATED WITH MECHANICAL, ARCHITECTURAL AND TILE LAYOUT.
2. ACCESS PANEL LOCATIONS TO BE COORDINATED WITH MECHANICAL, ARCHITECTURAL AND TILE LAYOUT.

CEILING NOTATION LEGEND

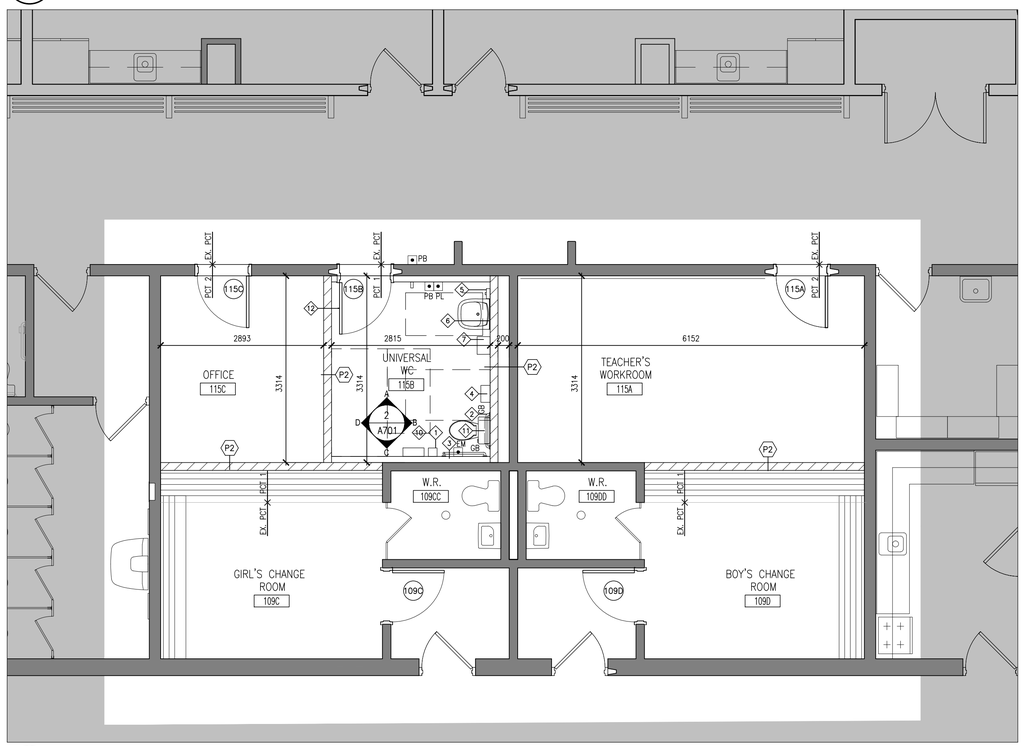
C#	CEILING TYPE (REFER TO CEILING TYPE SCHEDULE AND ROOM FINISH SCHEDULE)
2400	CEILING LEVEL ABOVE FINISHED FLOOR (SEE ALSO ROOM FINISH SCHEDULE)
EXP	EXPOSED STRUCTURE WITH PAINT FINISH
	SUPPLY AIR DIFFUSER (REFER TO MECHANICAL DRAWINGS)
	RETURN AIR GRILLE. SIZES VARY (REFER TO MECHANICAL DRAWINGS)
	EXHAUST FAN (REFER TO MECHANICAL DRAWINGS)
	LIGHT FIXTURES (REFER TO ELECTRICAL DRAWINGS)
EM	CEILING OR WALL MOUNTED EXIT LIGHT (REFER TO ELECTRICAL DRAWINGS)
	CEILING HEATER (REFER TO MECHANICAL DRAWINGS)

CEILING TYPES

C1	1220mmx610mm ACOUSTIC CEILING PANELS IN SUSPENDED T-BAR GRID
C2	16mm GYPSUM BOARD (PAINTED) ON METAL STUD FRAMING
C2A	16mm MOISTURE RESISTANT GYPSUM BOARD (PAINTED) ON METAL STUD FRAMING



2 / A206 PART FIRST FLOOR REFLECTED CEILING PLAN
1:50



1 / A206 PART FIRST FLOOR PLAN
1:50

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
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2	ISSUED FOR 80% REVIEW	SEP. 16, 2026	BBA
3	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
4	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DRAWING:
PART FIRST FLOOR PLAN & REFLECTED CEILING PLAN - CHANGE ROOM

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CASSANDRA ERIN CAUTRUS
LICENCE 8891
NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A206

CEILING NOTATION LEGEND

- C# — CEILING TYPE (REFER TO CEILING TYPE SCHEDULE AND ROOM FINISH SCHEDULE)
- 2400 — CEILING LEVEL ABOVE FINISHED FLOOR (SEE ALSO ROOM FINISH SCHEDULE)
- EXP — EXPOSED STRUCTURE WITH PAINT FINISH
- SUPPLY AIR DIFFUSER (REFER TO MECHANICAL DRAWINGS)
- RETURN AIR GRILLE. SIZES VARY (REFER TO MECHANICAL DRAWINGS)
- EXHAUST FAN (REFER TO MECHANICAL DRAWINGS)
- LIGHT FIXTURES (REFER TO ELECTRICAL DRAWINGS)
- EXIT — CEILING OR WALL MOUNTED EXIT LIGHT (REFER TO ELECTRICAL DRAWINGS)
- CEILING HEATER (REFER TO MECHANICAL DRAWINGS)
- RS — ROLLER SHADES

CEILING TYPES

- C1 — 1220mmx610mm ACOUSTIC CEILING PANELS IN SUSPENDED T-BAR GRID
- C2 — 16mm GYPSUM BOARD (PAINTED) ON METAL STUD FRAMING
- C2A — 16mm MOISTURE RESISTANT GYPSUM BOARD (PAINTED) ON METAL STUD FRAMING



1 A207 — PART FIRST FLOOR REFLECTED CEILING PLAN
1:50

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
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NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DRAWING:
PART FIRST FLOOR REFLECTED CEILING PLAN

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL: ONTARIO ASSOCIATION OF ARCHITECTS — CASSANDRA ERIN CAUTIUS — LICENCE 8891 — NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A207

CEILING NOTATION LEGEND

- C# — CEILING TYPE (REFER TO CEILING TYPE SCHEDULE AND ROOM FINISH SCHEDULE)
- 2400 — CEILING LEVEL ABOVE FINISHED FLOOR (SEE ALSO ROOM FINISH SCHEDULE)
- EXP — EXPOSED STRUCTURE WITH PAINT FINISH
- SUPPLY AIR DIFFUSER (REFER TO MECHANICAL DRAWINGS)
- RETURN AIR GRILLE. SIZES VARY (REFER TO MECHANICAL DRAWINGS)
- EXHAUST FAN (REFER TO MECHANICAL DRAWINGS)
- LIGHT FIXTURES (REFER TO ELECTRICAL DRAWINGS)
- EXIT — CEILING OR WALL MOUNTED EXIT LIGHT (REFER TO ELECTRICAL DRAWINGS)
- CEILING HEATER (REFER TO MECHANICAL DRAWINGS)
- RS — ROLLER SHADES

CEILING TYPES

- C1 — 1220mmx610mm ACOUSTIC CEILING PANELS IN SUSPENDED T-BAR GRID
- C2 — 16mm GYPSUM BOARD (PAINTED) ON METAL STUD FRAMING
- C2A — 16mm MOISTURE RESISTANT GYPSUM BOARD (PAINTED) ON METAL STUD FRAMING



1 A208 PART SECOND FLOOR REFLECTED CEILING PLAN
1:50

DO NOT SCALE THE DRAWINGS.
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NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DRAWING:
PART SECOND FLOOR REFLECTED CEILING PLAN

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL: ONTARIO ASSOCIATION OF ARCHITECTS — CASSANDRA ERIN CAUTIUS — LICENCE 8891 — NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A208

FLOOR FINISHES LEGEND

SYMBOL		DESCRIPTION	NOTES
PCT1		305x305 PORCELAIN TILE: MANUFACTURER: SEE SPECIFICATIONS COLOUR: LIGHT BLUE	
PCT2		305x305 PORCELAIN TILE: MANUFACTURER: SEE SPECIFICATIONS COLOUR: CREAM	
PCT3		305x305 PORCELAIN TILE: MANUFACTURER: SEE SPECIFICATIONS COLOUR: DARK BLUE	
PCT3		305X305 PORCELAIN TILE: MANUFACTURER: SEE SPECIFICATIONS COLOUR: TERRACOTTA	
TWSI		RUBBER TACTILE WARNING SURFACE: MANUFACTURER: OLYMPIA TILE COLOUR: T.B.D.	REFER TO PLANS
VCT1		VINYL COMPOSITE TILE: MANUFACTURER: SEE SPECIFICATION COLOUR: CREAM	
VCT2		VINYL COMPOSITE TILE: MANUFACTURER: SEE SPECIFICATION COLOUR: LIGHT BLUE	
EF		EPOXY FINISH:	
R		RUBBER:	
FD		FLOOR DRAIN:	
RST		RUBBER STAIR TREAD:	

FLOORING TO BE INSTALLED AS PER MANUFACTURER RECOMMENDATION

WALL FINISHES LEGEND

CERAMIC WALL TILE (CT)

PADDING

NOTE:

1. ALL FLOOR TILE SHALL POSITIVELY SLOPE TO DRAIN. WATER TEST ALL SLOPES FOR POSITIVE DRAINAGE.
2. FLOOR SLOPES TO DRAIN SHALL BETWEEN 2-3% FOR POSITIVE DRAINAGE.
3. ALL EXPOSED MASONRY WITH THE FINISH SHALL BE COMPLETE WITH BULL NOSE CORNERS. EXPOSED MASONRY SHALL BE PAINT FINISH TYPICAL.



1 / A209 PART FIRST FLOOR FINISHES PLAN

1:50

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
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2	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
3	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DRAWING:
PART FIRST FLOOR FINISHES PLAN

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL: ONTARIO ASSOCIATION OF ARCHITECTS — CASSANDRA ERIN CAUTIUS — LICENCE 8891 — NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A209

FLOOR FINISHES LEGEND

SYMBOL		DESCRIPTION	NOTES
PCT1		305x305 PORCELAIN TILE: MANUFACTURER: SEE SPECIFICATIONS COLOUR: LIGHT BLUE	
PCT2		305x305 PORCELAIN TILE: MANUFACTURER: SEE SPECIFICATIONS COLOUR: CREAM	
PCT3		305x305 PORCELAIN TILE: MANUFACTURER: SEE SPECIFICATIONS COLOUR: DARK BLUE	
PCT3		305x305 PORCELAIN TILE: MANUFACTURER: SEE SPECIFICATIONS COLOUR: TERRACOTTA	
TWSI		RUBBER TACTILE WARNING SURFACE: MANUFACTURER: OLYMPIA TILE COLOUR: T.B.D.	REFER TO PLANS
VCT1		VINYL COMPOSITE TILE: MANUFACTURER: SEE SPECIFICATION COLOUR: CREAM	
VCT2		VINYL COMPOSITE TILE: MANUFACTURER: SEE SPECIFICATION COLOUR: LIGHT BLUE	
EF		EPOXY FINISH:	
R		RUBBER:	
FD		FLOOR DRAIN:	
RST		RUBBER STAIR TREAD:	

FLOORING TO BE INSTALLED AS PER MANUFACTURER RECOMMENDATION

WALL FINISHES LEGEND

CERAMIC WALL TILE (CT)

PADDING

NOTE:

1. ALL FLOOR TILE SHALL POSITIVELY SLOPE TO DRAIN. WATER TEST ALL SLOPES FOR POSITIVE DRAINAGE.
2. FLOOR SLOPES TO DRAIN SHALL BETWEEN 2-3% FOR POSITIVE DRAINAGE.
3. ALL EXPOSED MASONRY WITH THE FINISH SHALL BE COMPLETE WITH BULL NOSE CORNERS. EXPOSED MASONRY SHALL BE PAINT FINISH TYPICAL.



1 A210 PART SECOND FLOOR FINISHES PLAN

1:50

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR 80% REVIEW	SEP. 16, 2026	BBA
2	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
3	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

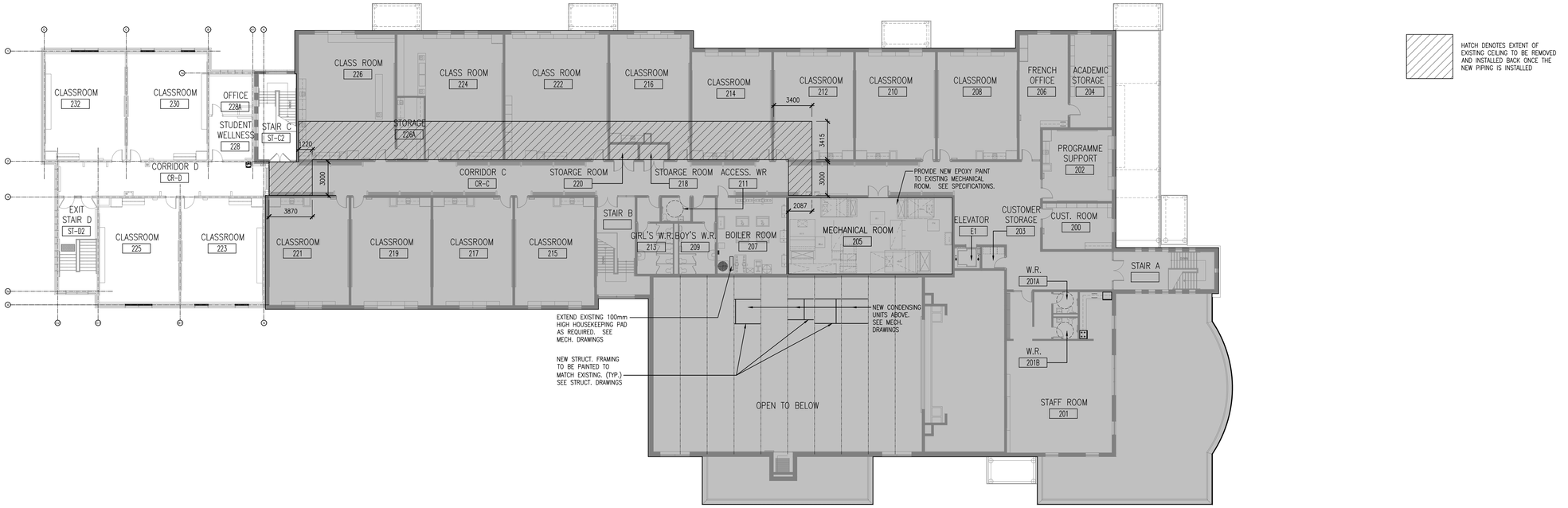
DRAWING:
PART SECOND FLOOR FINISHES PLAN

WHITBY PLANNING - PRE-13-26

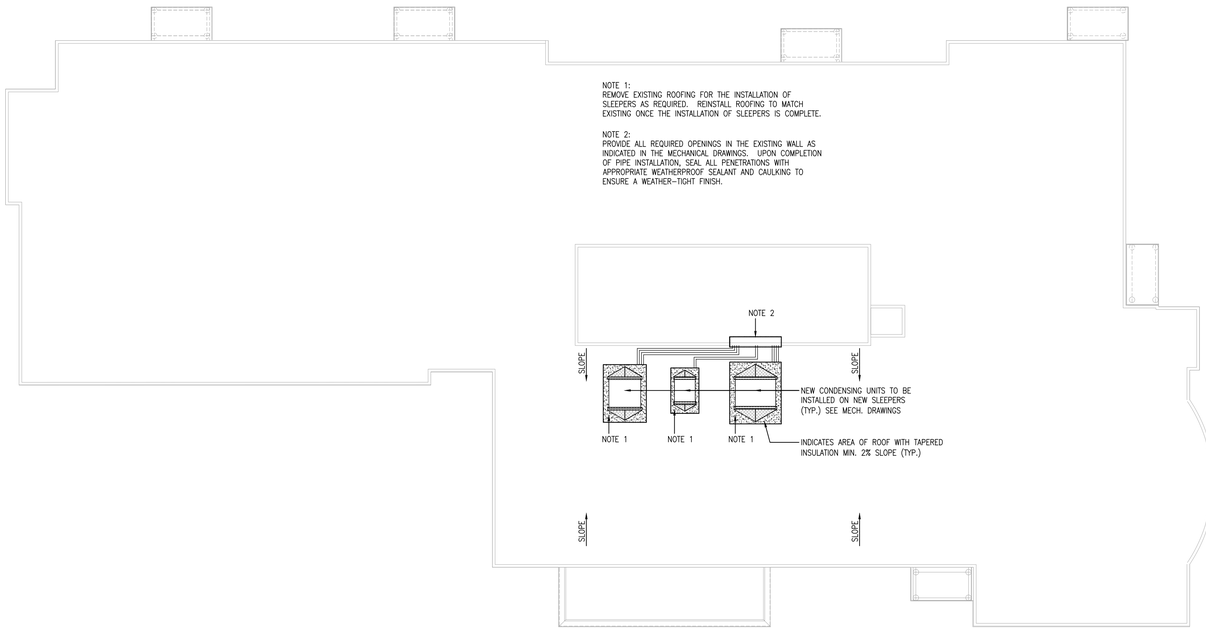
DESIGN BY:	RS
DRAWN BY:	RR
CHECKED BY:	RS
DATE:	NOV. 2026
SCALE:	AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CASSANDRA ERIN CAUTIUS
LICENCE
8881
NOV. 11, 2026

PROJECT NO:	DRAWING NO:
25062	A210



2 / A211 SECOND FLOOR PLAN
1:200



1 / A211 ROOF PLAN
1:200

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

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1	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
2	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DRAWING:
MISCELLANEOUS FLOOR PLANS

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CASSANDRA ERIN CAUTIUS
LICENCE 8881
NOV. 11, 2026

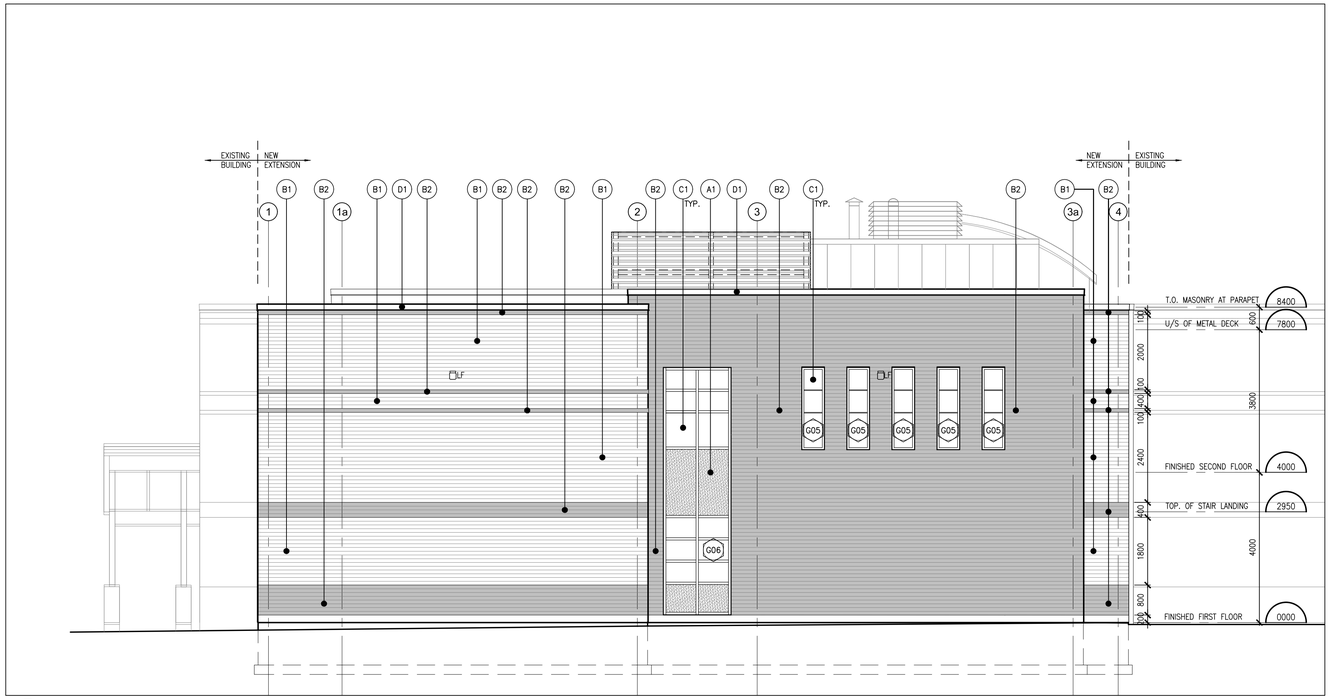
PROJECT NO: 25062
DRAWING NO: A211

MATERIALS LEGEND

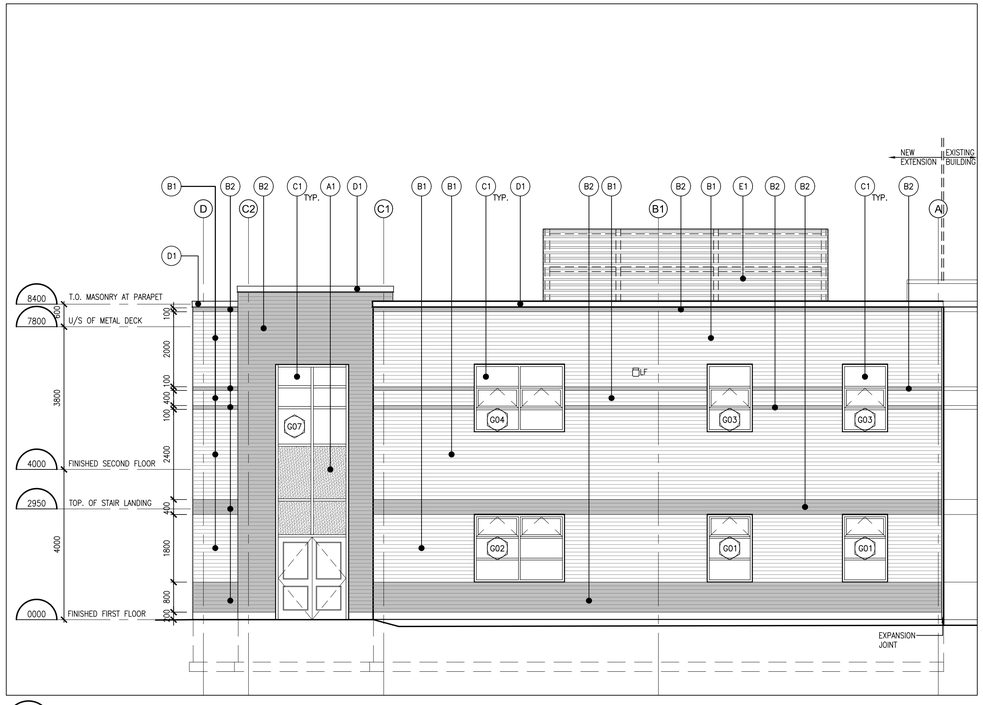
A1	SPANDREL ALUMINUM PANELS – MED BLUE TO MATCH EXIST. LIBRARY
B1	BRICK – TAWNY (MATCH EXISTING)
B2	BRICK – BURNT ORANGE (MATCH EXISTING)
C1	WINDOWS – ANODIZED ALUMINUM FRAMES
D1	PREFINISHED METAL FLASHING – LIGHT GREY (MATCH EXISTING)
E1	METAL ROOF SCREEN – LIGHT GREY (MATCH EXISTING)
	INSULATED GLASS – CLEAR
	ALUMINUM SPANDREL PANEL
	INSULATED GLASS – BACK PAINTED

ABBREVIATION LEGEND

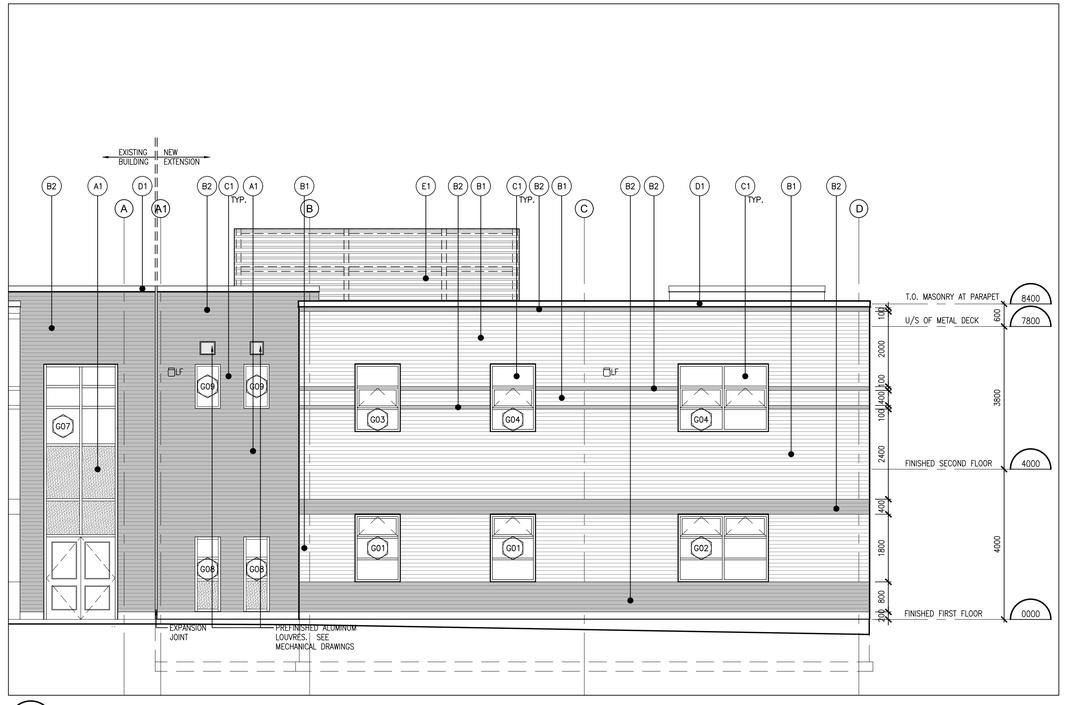
LF	LIGHT FIXTURE
CJ	CONTROL JOINT LOCATIONS AS PER THIS DRAWING. MINIMUM O.C. SPACING
SD	SCUPPER DRAIN



2 / A301 PART SOUTH ELEVATION
1:75



3 / A301 PART WEST ELEVATION
1:75



1 / A301 PART EAST ELEVATION
1:75

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Learning and Living in Faith

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1	ISSUED FOR 30% REVIEW	JUNE 25, 2026	BBA
2	ISSUED FOR SITE PLAN AMENDMENT	AUG. 25, 2026	BBA
3	ISSUED FOR 80% REVIEW	SEP. 16, 2026	BBA
4	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
5	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

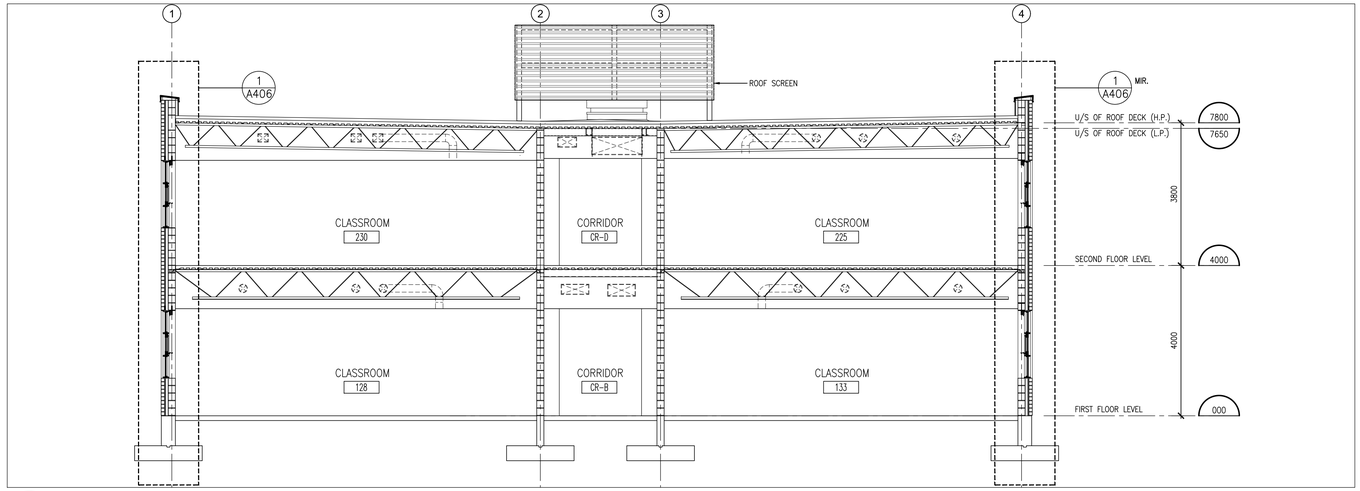
DRAWING:
PART ELEVATIONS

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

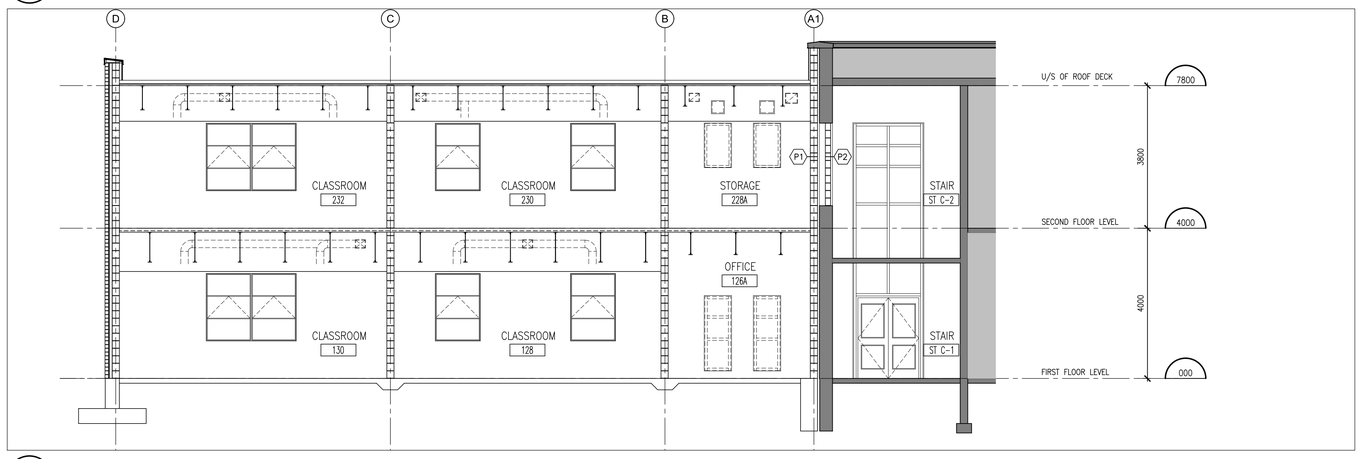
SEAL: ONTARIO ASSOCIATION OF ARCHITECTS — CASSANDRA ERIN CAUTIUS — LICENCE 8881 — NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A301



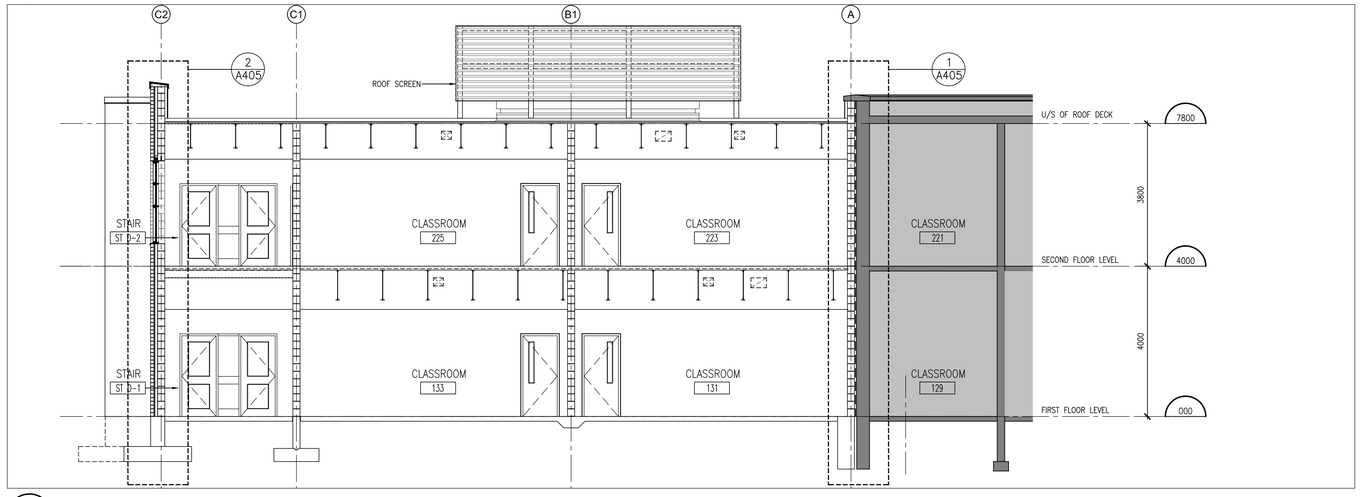
3 / A401 BUILDING SECTION

1:75



2 / A401 BUILDING SECTION

1:75



1 / A401 BUILDING SECTION

1:75

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

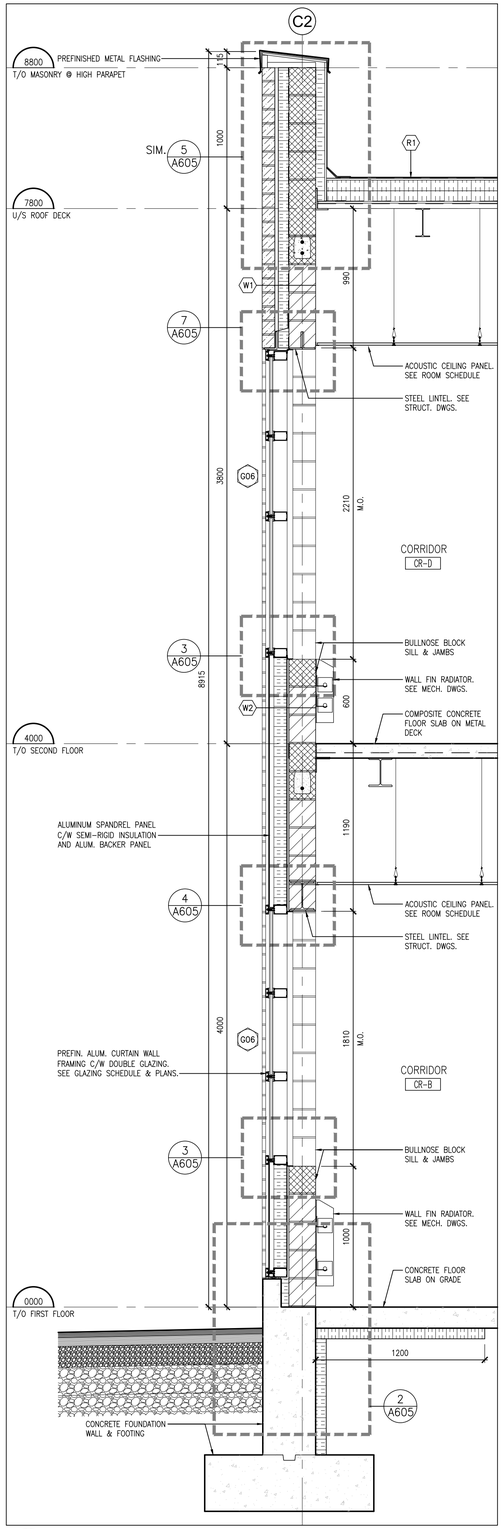
DRAWING:
BUILDING SECTIONS

WHITBY PLANNING - PRE-13-26

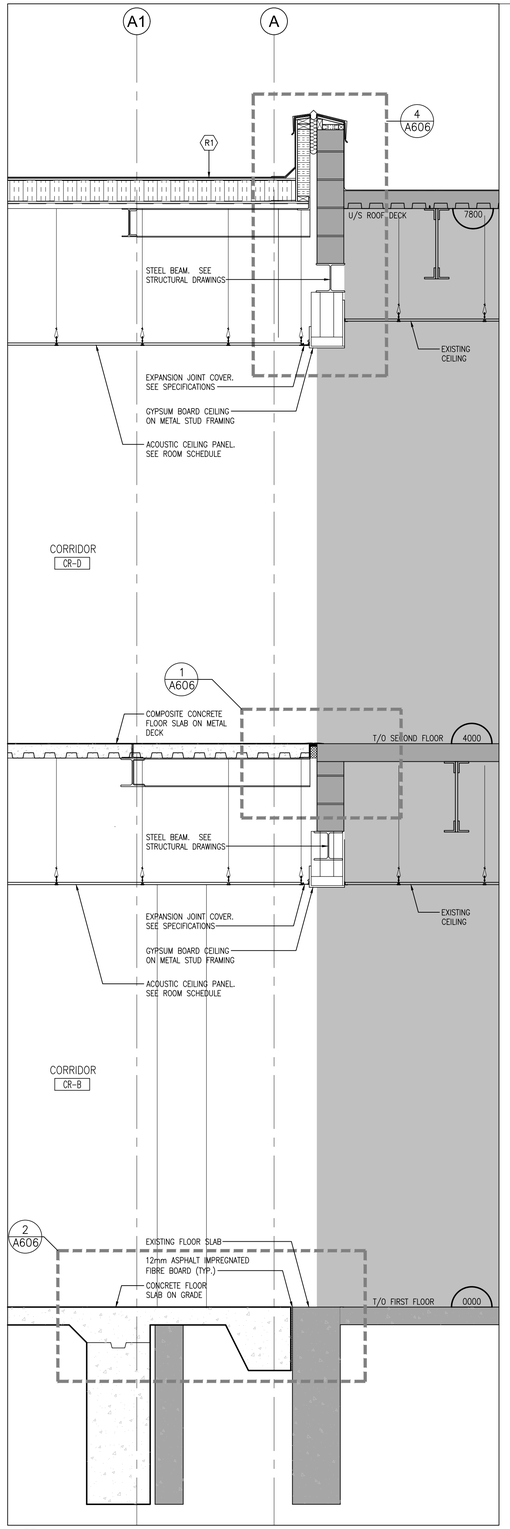
DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL: ONTARIO ASSOCIATION OF ARCHITECTS — CASSANDRA ERIN CAUTIUS — LICENCE 8891 — NOV. 11, 2026

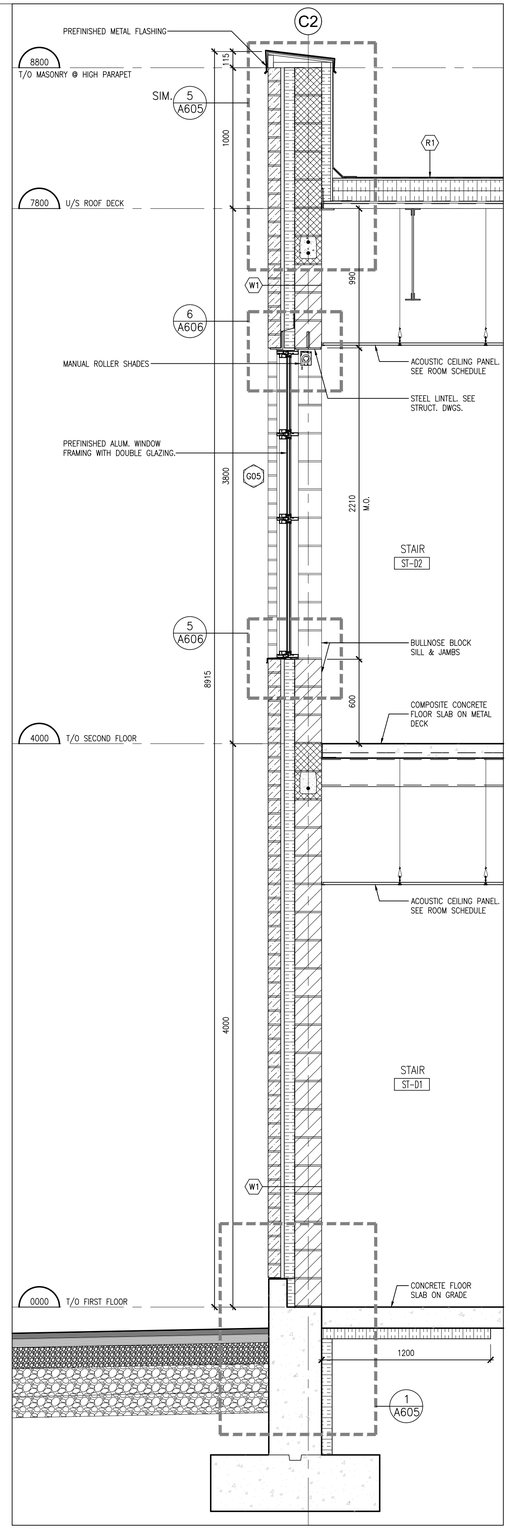
PROJECT NO: 25062
DRAWING NO: A401



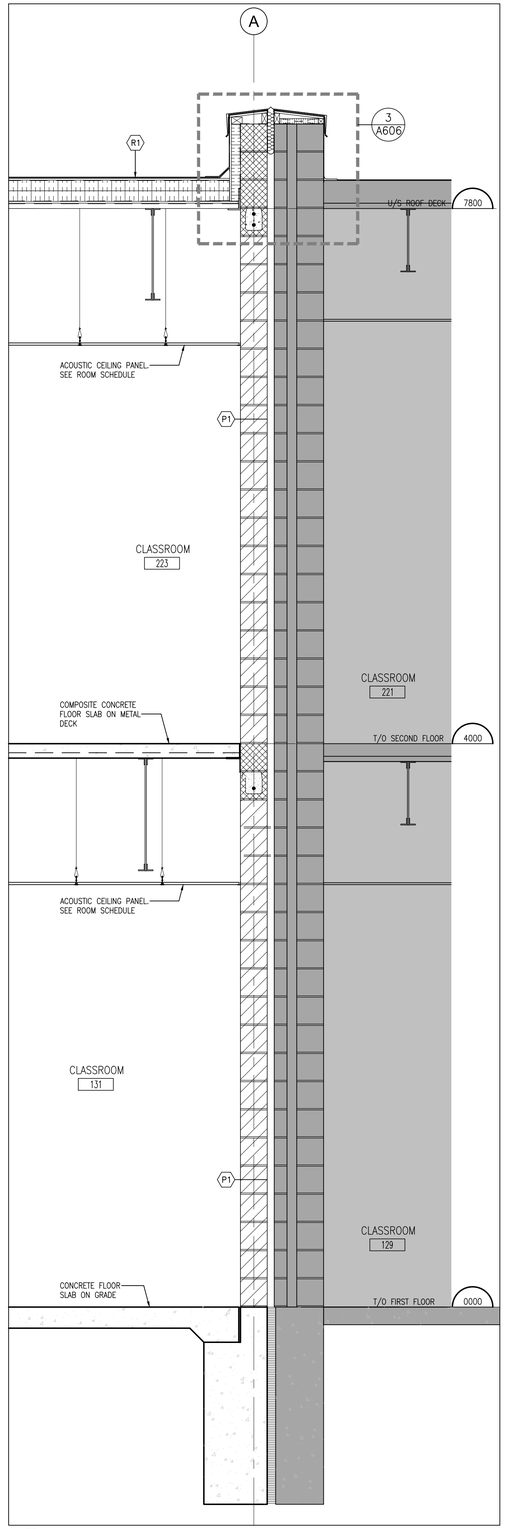
4 A405 WALL SECTION
1:20



3 A405 WALL SECTION
1:20



2 A405 WALL SECTION
1:20



1 A405 WALL SECTION
1:20

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2	ISSUED FOR 80% REVIEW	SEP. 16, 2026	BBA
3	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
4	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

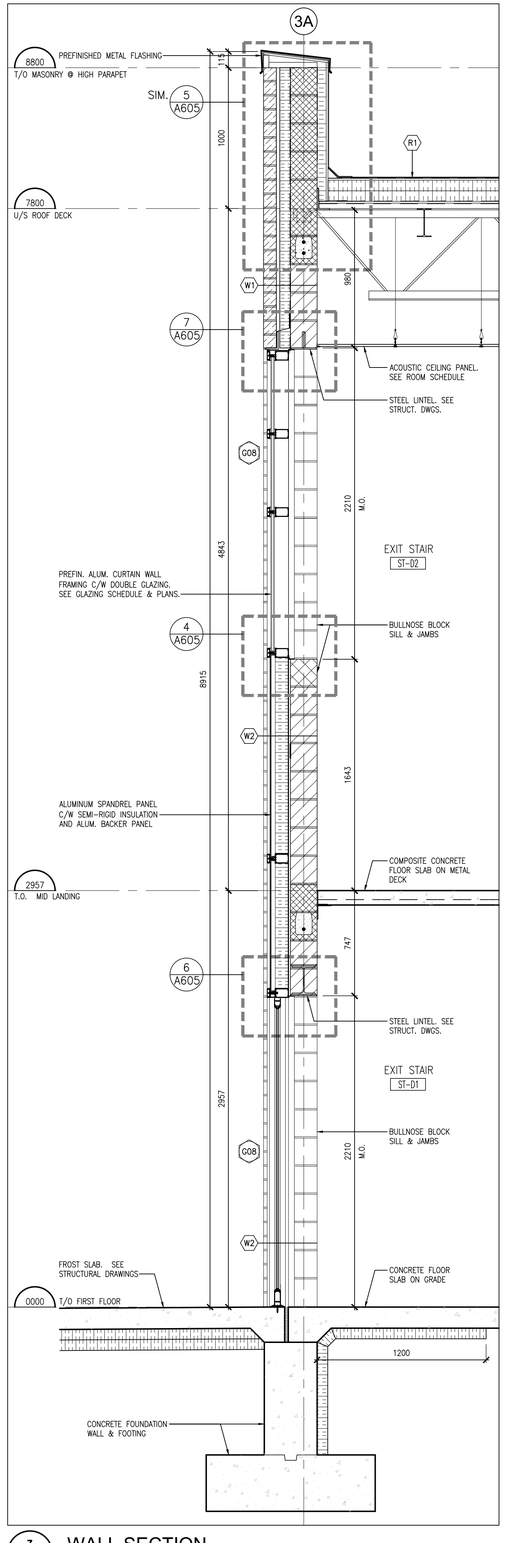
DRAWING:
WALL SECTIONS

WHITBY PLANNING - PRE-13-26

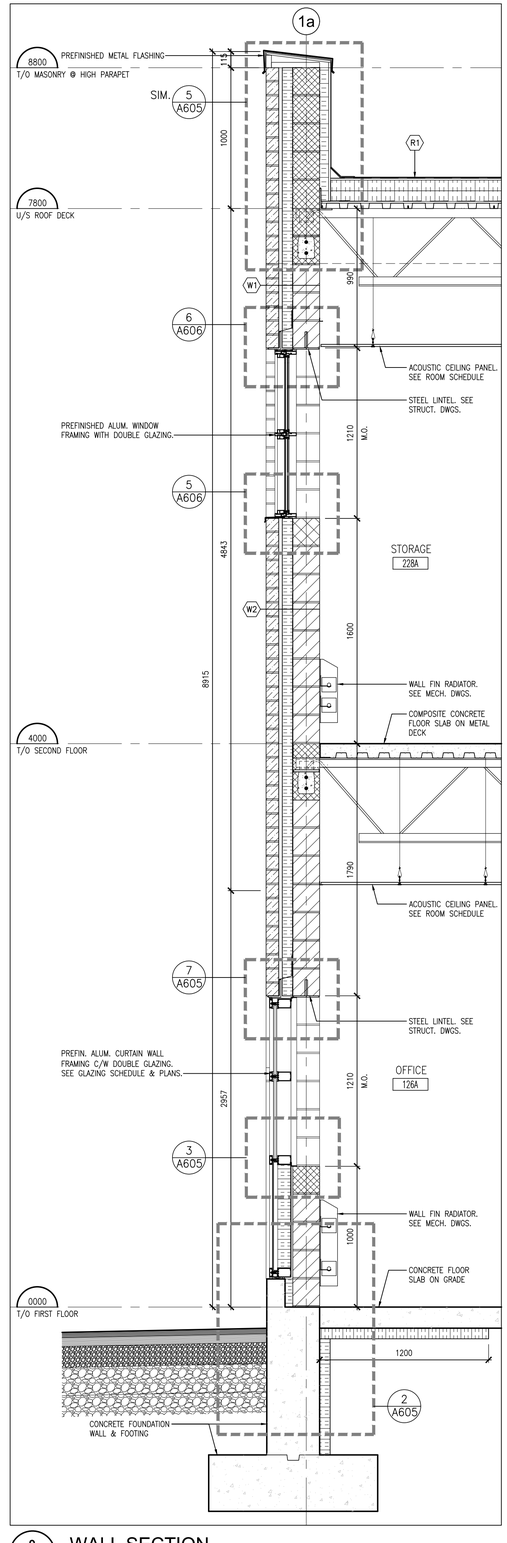
DESIGN BY: RS
DRAWN BY: RR
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DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CASSANDRA ERIN CAUTIUS
LICENCE 8881
NOV. 11, 2026

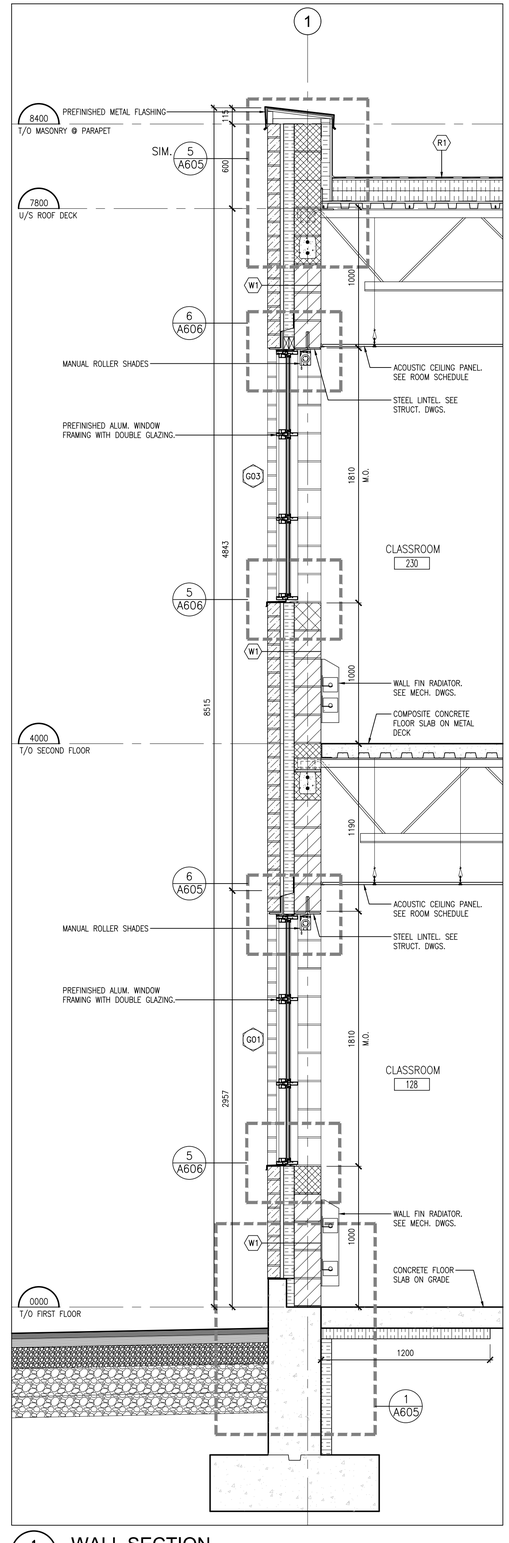
PROJECT NO: 25062
DRAWING NO: A405



3 A406 WALL SECTION
1:20



2 A406 WALL SECTION
1:20



1 A406 WALL SECTION
1:20

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4	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

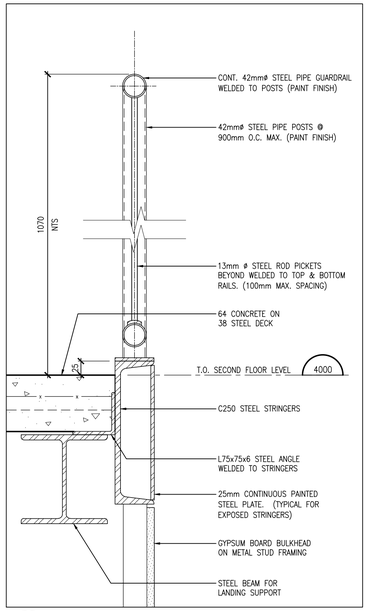
DRAWING:
WALL SECTIONS

WHITBY PLANNING - PRE-13-26

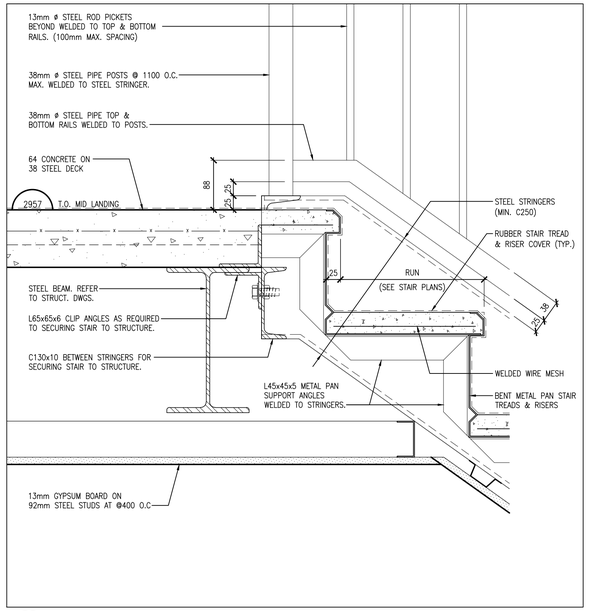
DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CASSANDRA ERIN CAUTIUS
LICENCE 8881
NOV. 11, 2026

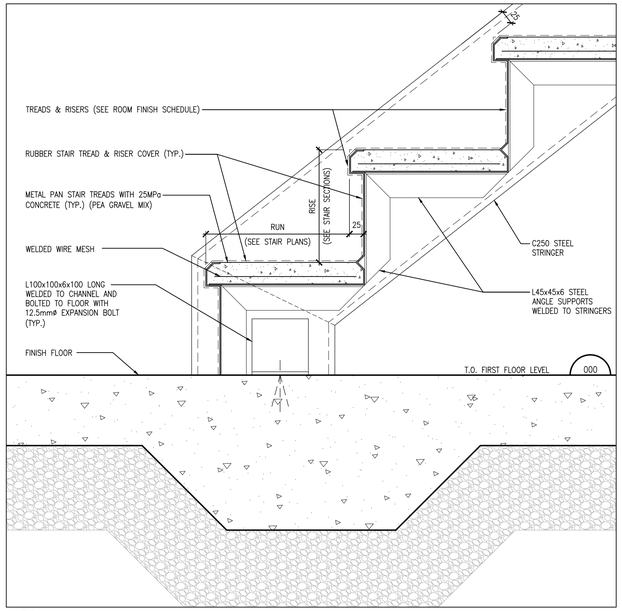
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DRAWING NO: A406



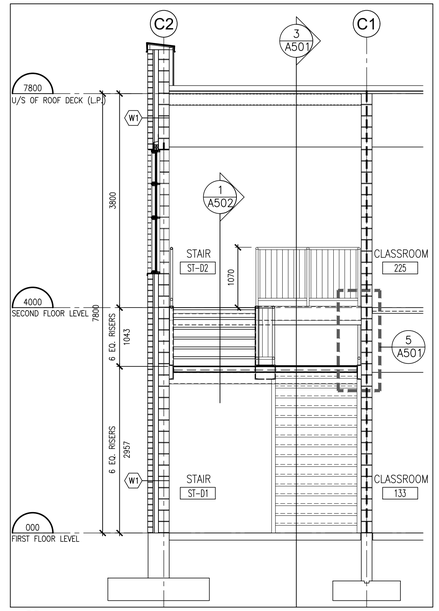
7 A501 GUARDRAIL AT TOP LANDING
1:5



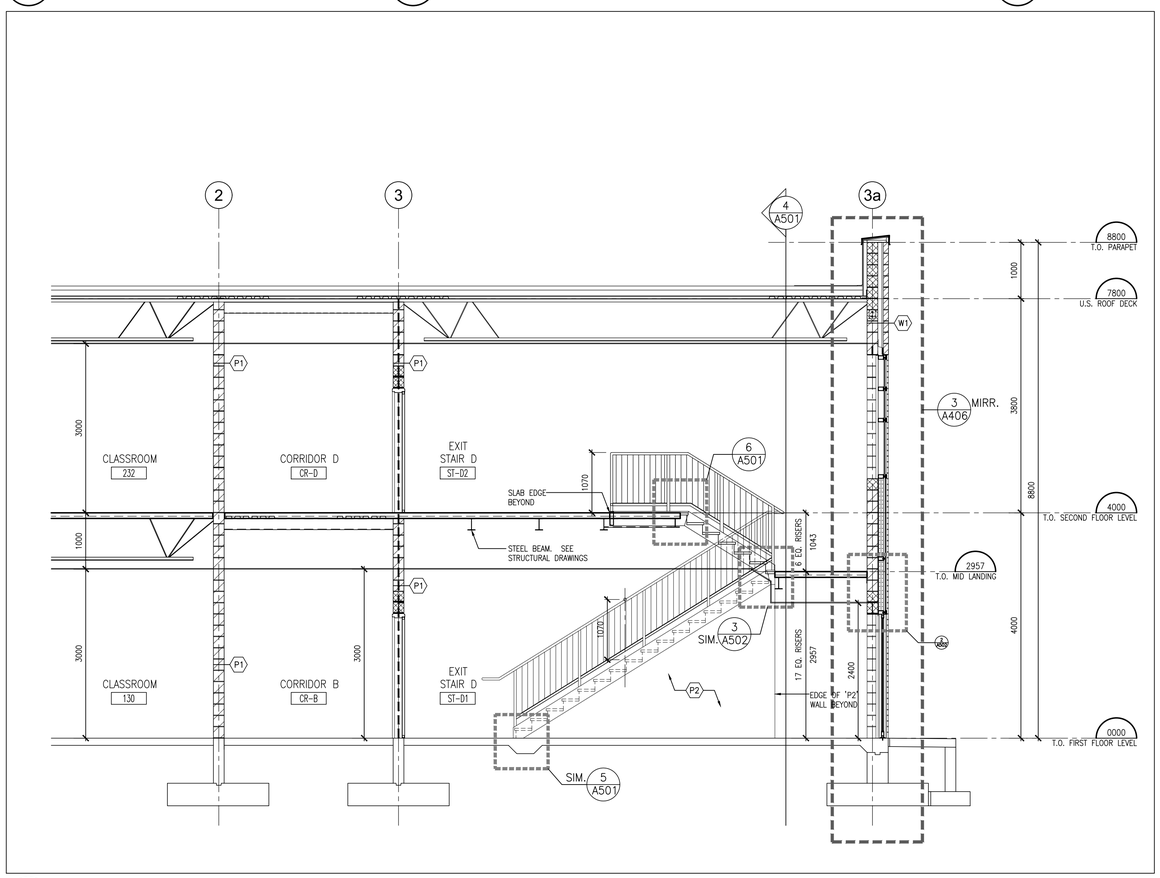
6 A501 SECTION DETAIL AT TOP LANDING
1:5



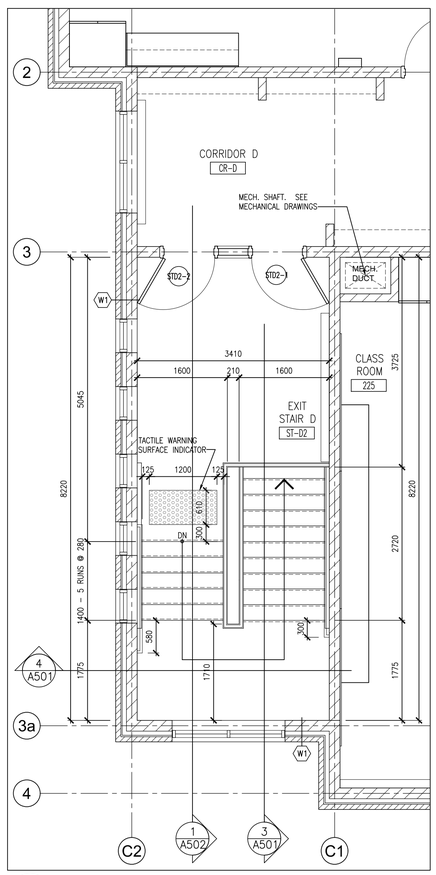
5 A501 SECTION DETAIL AT SLAB ON GRADE
1:5



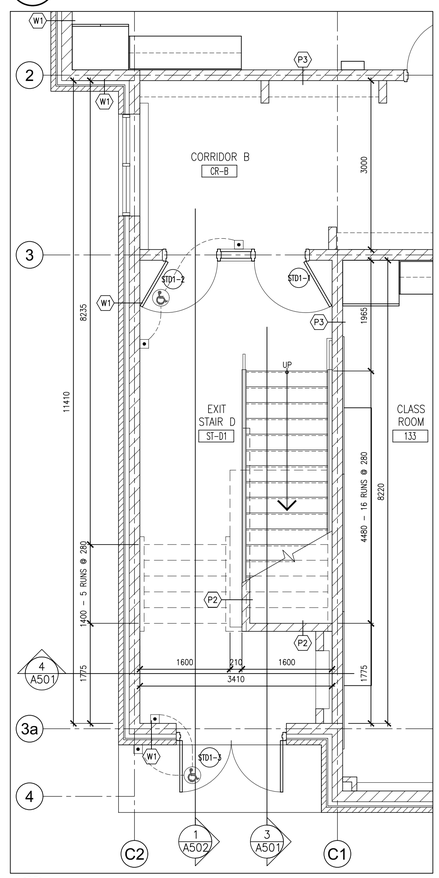
4 A501 STAIR ST-D - FIRST FLOOR PLAN
1:50



3 A501 STAIR ST-D - SECTION 1
1:50



2 A501 STAIR ST-D - SECOND FLOOR PLAN
1:50



1 A501 STAIR ST-D - FIRST FLOOR PLAN
1:50

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Learning and Living in Faith

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1	ISSUED FOR 80% REVIEW	SEP. 16, 2026	BBA
2	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
3	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

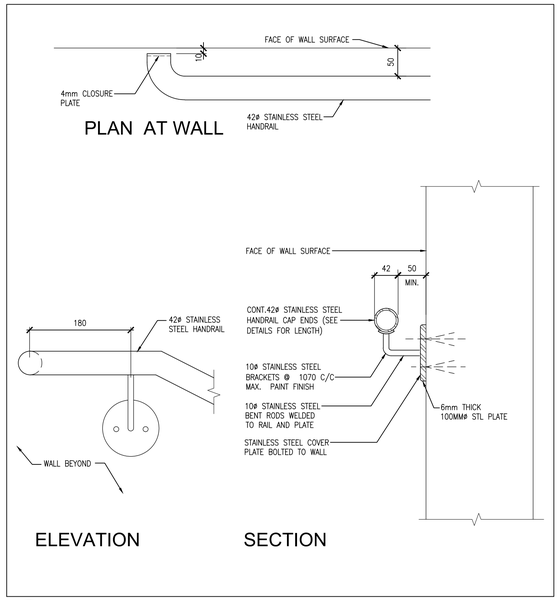
DRAWING:
STAIR PLANS, SECTIONS & DETAILS

WHITBY PLANNING - PRE-13-26

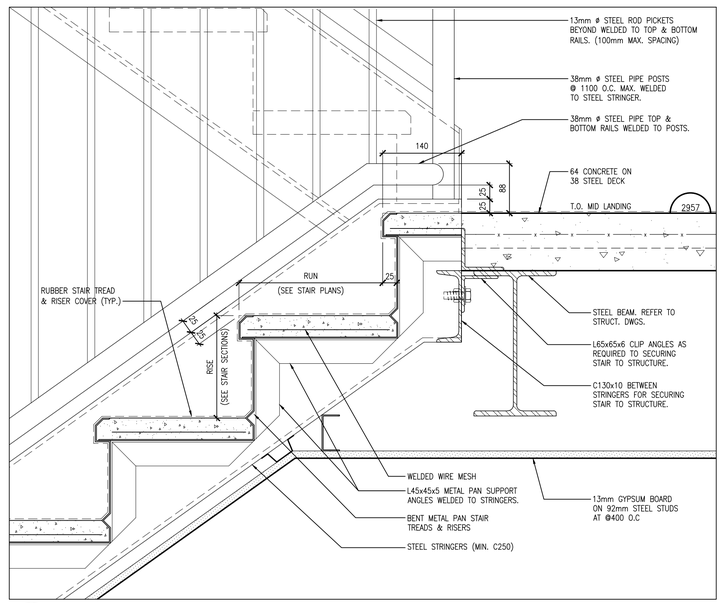
DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL: ONTARIO ASSOCIATION OF ARCHITECTS — CHANDRA BRIN CAUTIUS — LICENCE 8891 — NOV. 11, 2026

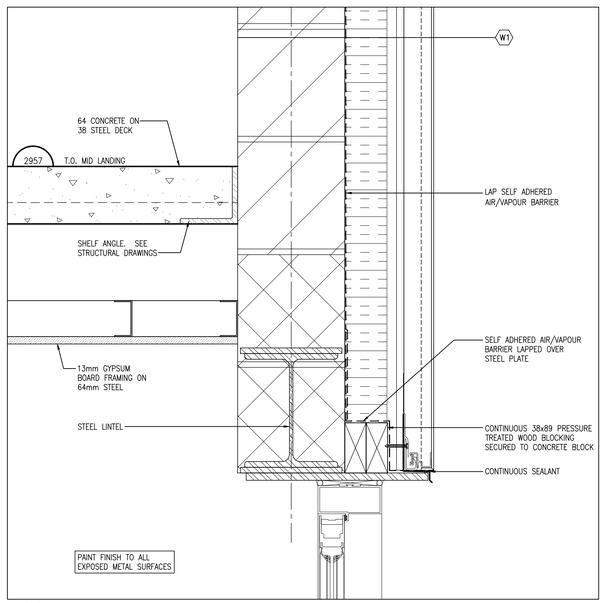
PROJECT NO: 25062
DRAWING NO: A501



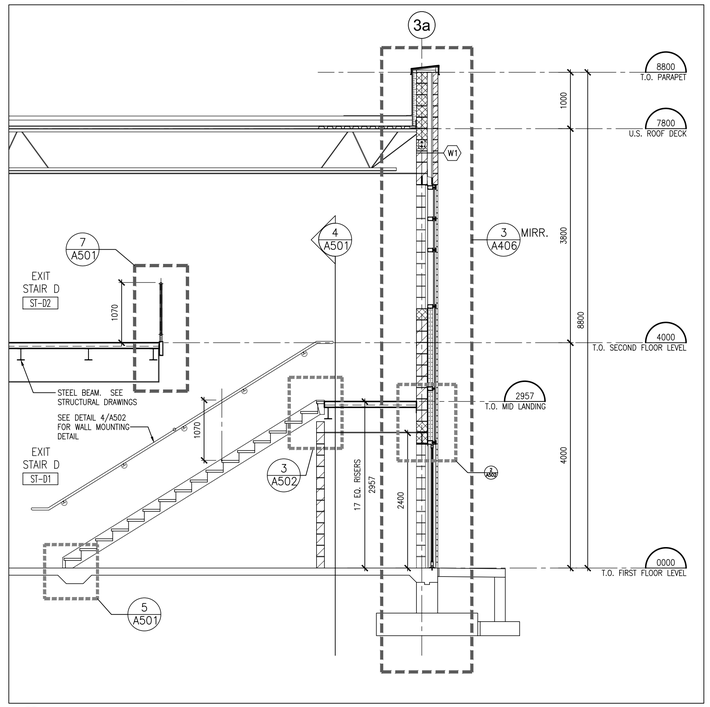
4 / A502 TYPICAL WALL MOUNTED DETAIL
1:5



3 / A502 SECTION DETAIL AT N MID LANDING
1:5



2 / A502 SECTION DETAIL
1:5



1 / A502 STAIR ST-D - SECTION 2
1:50

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BBA
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

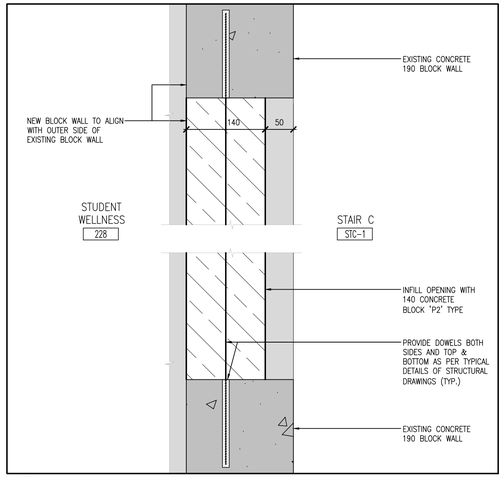
DRAWING:
STAIR SECTIONS & DETAILS

WHITBY PLANNING - PRE-13-26

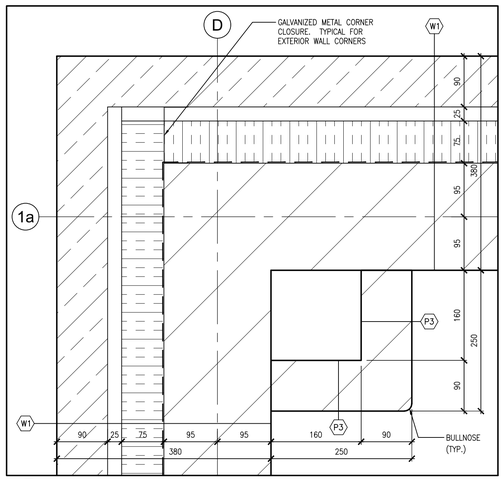
DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
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CHADORA ERIN CAUTIUS
LICENCE 8891
NOV. 11, 2026

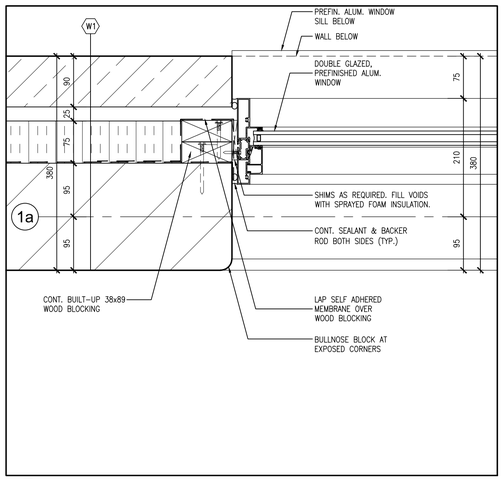
PROJECT NO: 25062
DRAWING NO: A502



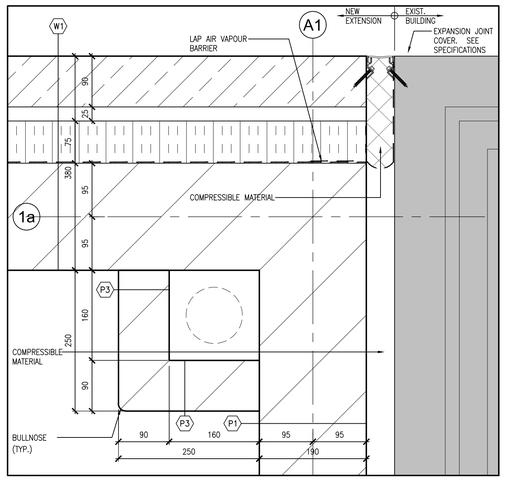
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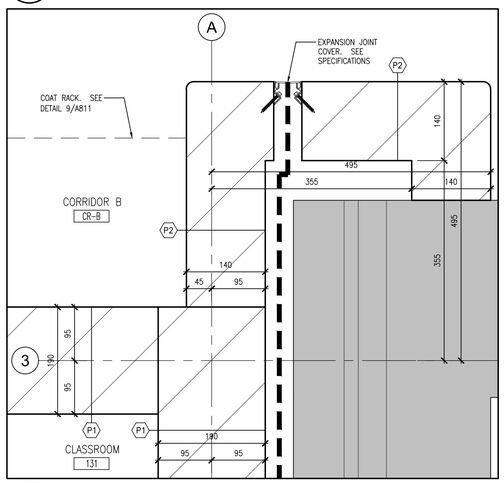
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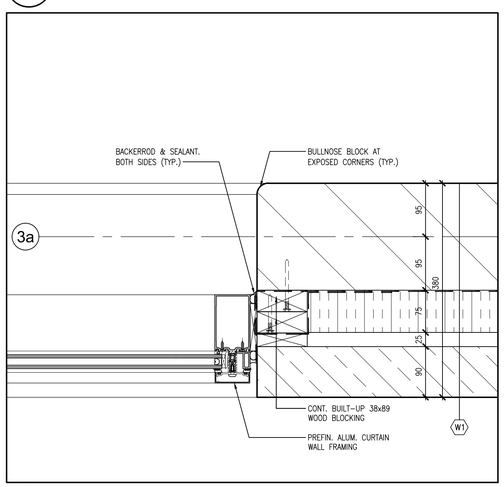
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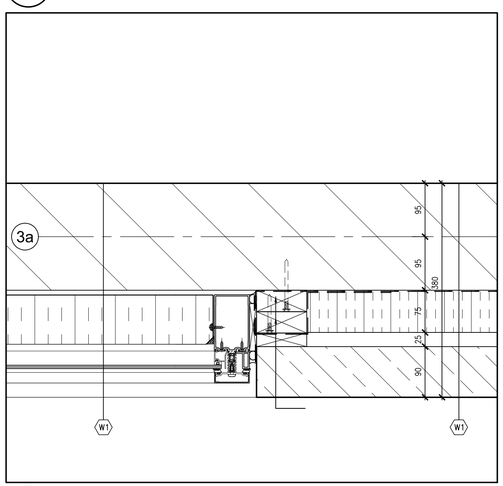
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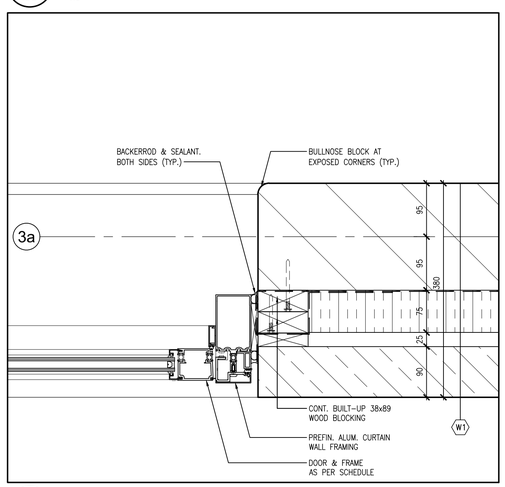
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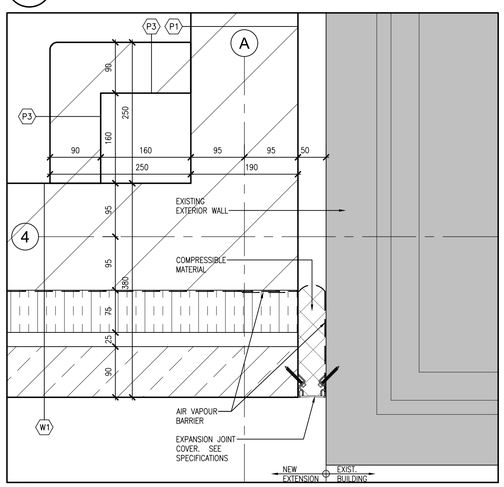
4 / A601 PLAN DETAIL
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3 / A601 PLAN DETAIL @ CURTAIN WALL GLAZING



2 / A601 PLAN DETAIL @ SPANDREL PANEL
1:5



1 / A601 PLAN DETAIL
1:5

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Learning and Living in Faith

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2	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
3	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST
CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

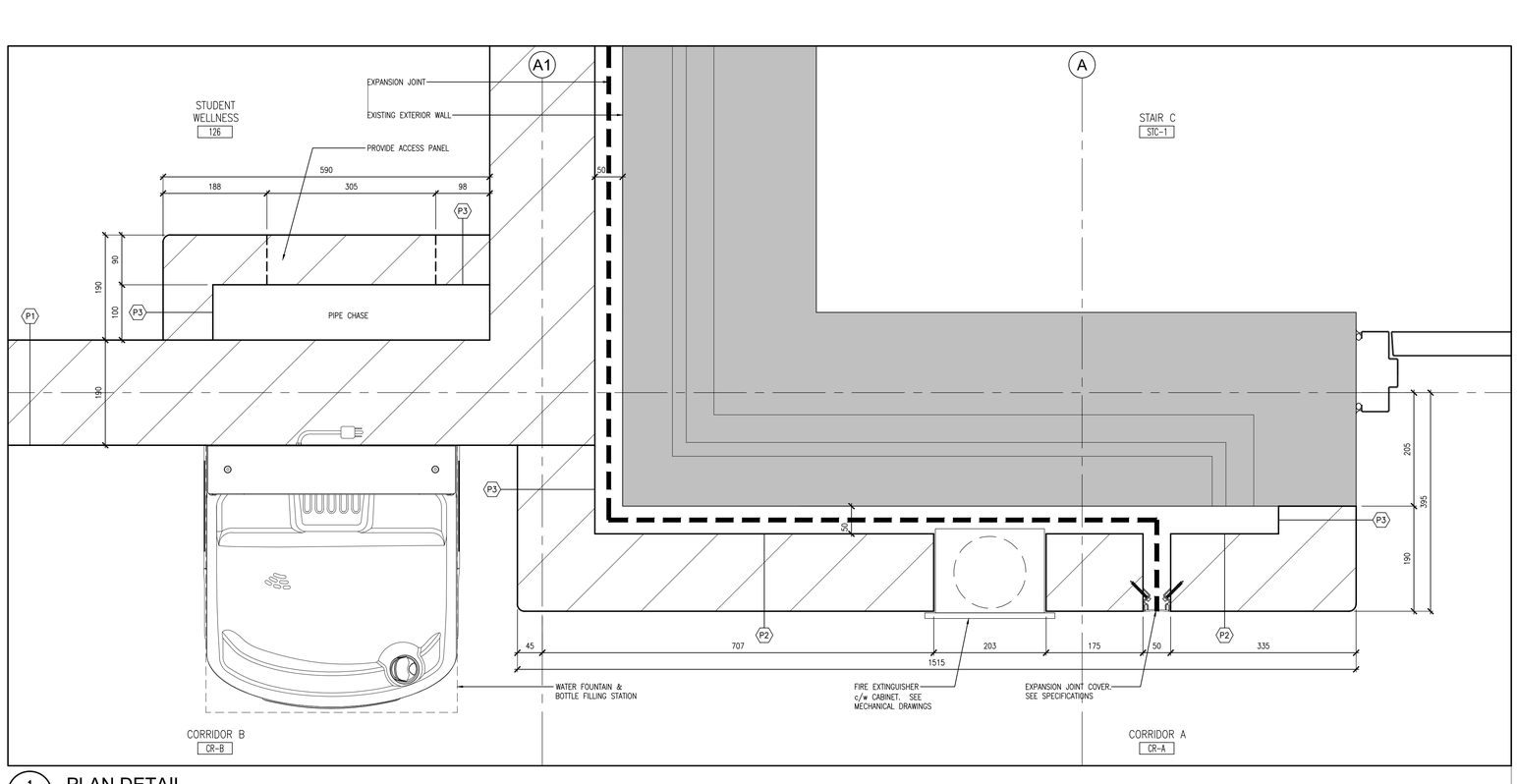
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PLAN DETAILS

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CAROMORA ERIN CAUTIUS
LICENCE 8881
NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A601



1 / A602 PLAN DETAIL

1:5

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

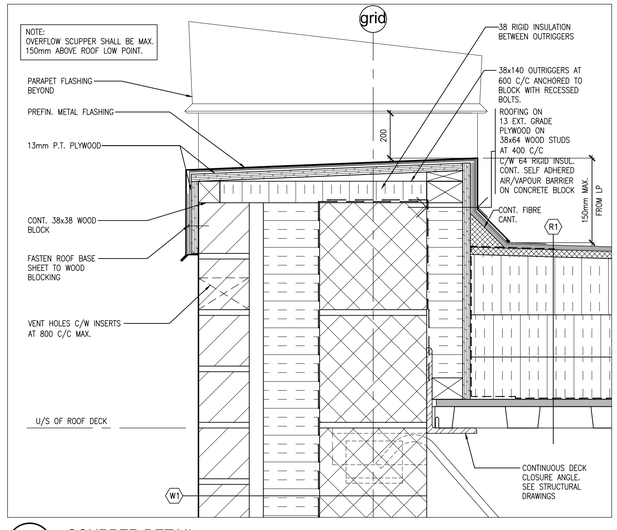
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PLAN DETAILS

WHITBY PLANNING - PRE-13-26

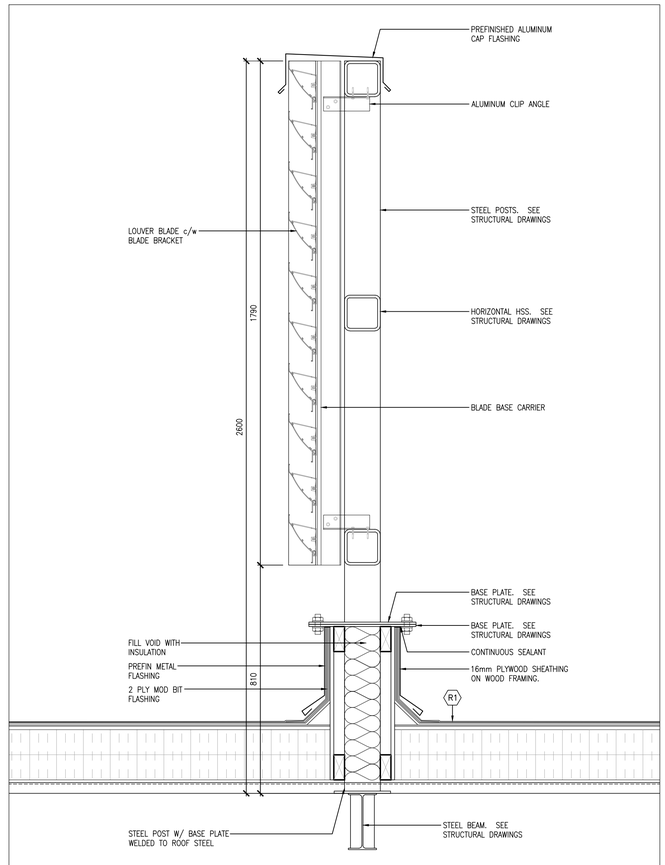
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CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CASSANDRA ERIN CAUTIS
LICENCE 8891
NOV. 11, 2026

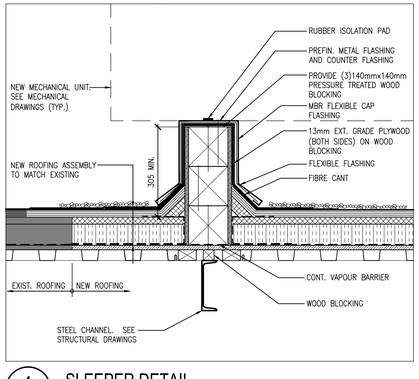
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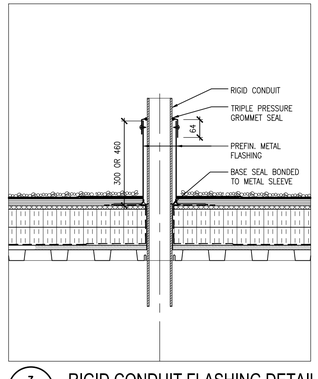
6 A603 SCUPPER DETAIL
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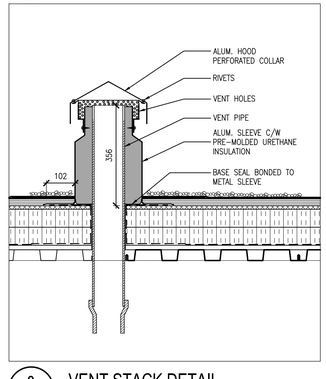
5 A603 ROOF SCREEN DETAIL
1:10



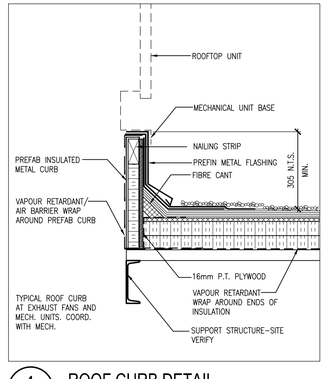
4 A603 SLEEPER DETAIL
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3 A603 RIGID CONDUIT FLASHING DETAIL
1:10



2 A603 VENT STACK DETAIL
1:10



1 A603 ROOF CURB DETAIL
1:10

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

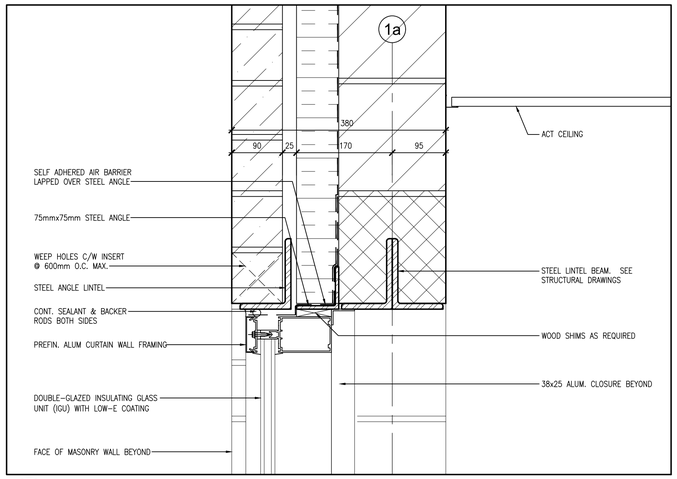
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ROOF DETAILS

WHITBY PLANNING - PRE-13-26

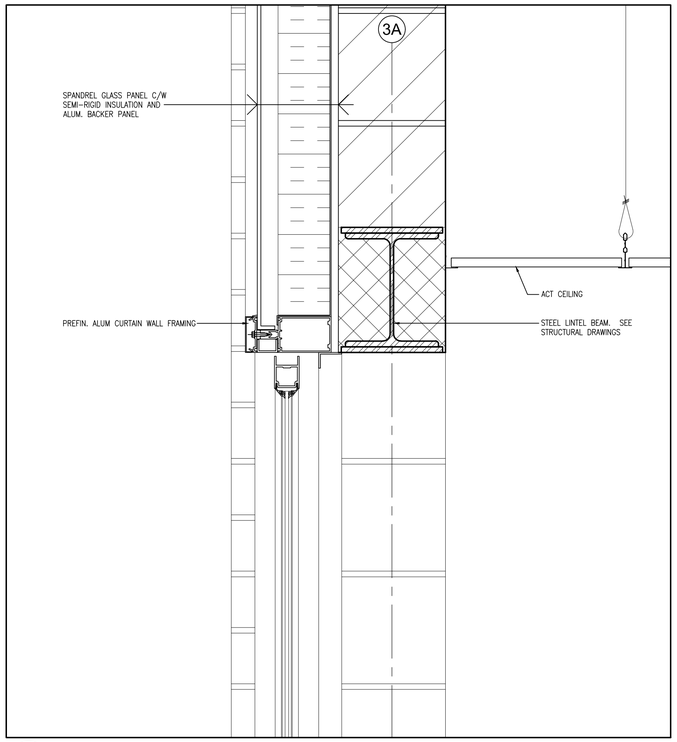
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CHECKED BY:	RS
DATE:	NOV. 2026
SCALE:	AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CASSANDRA ERIN CAUTIUS
LICENCE 8891
NOV. 11, 2026

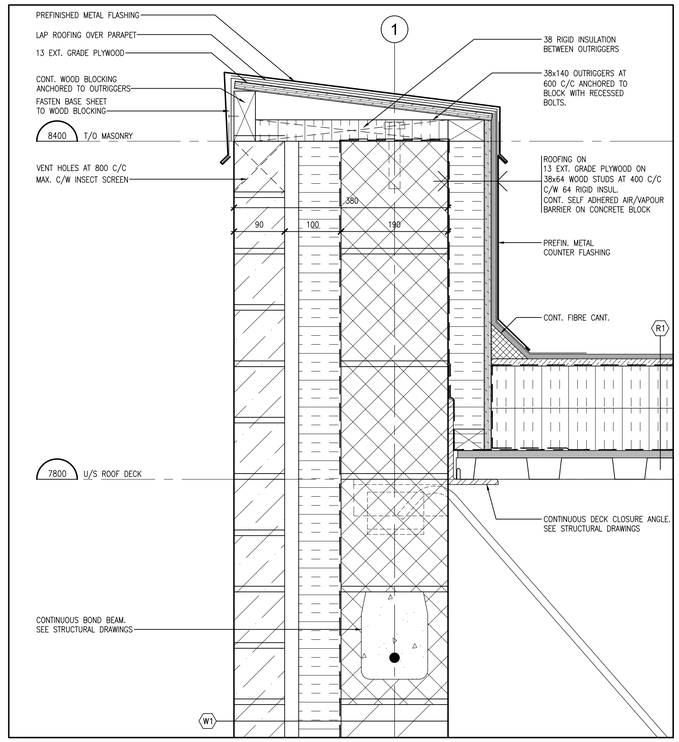
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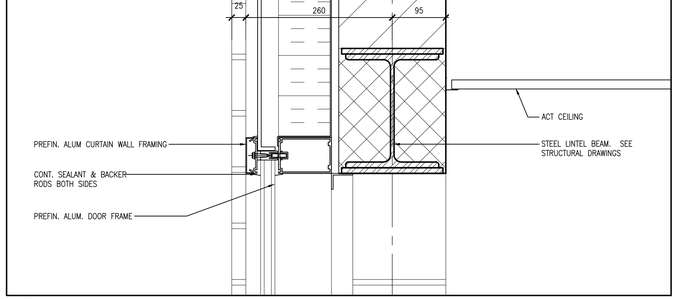
7 A605 SECTION DETAIL
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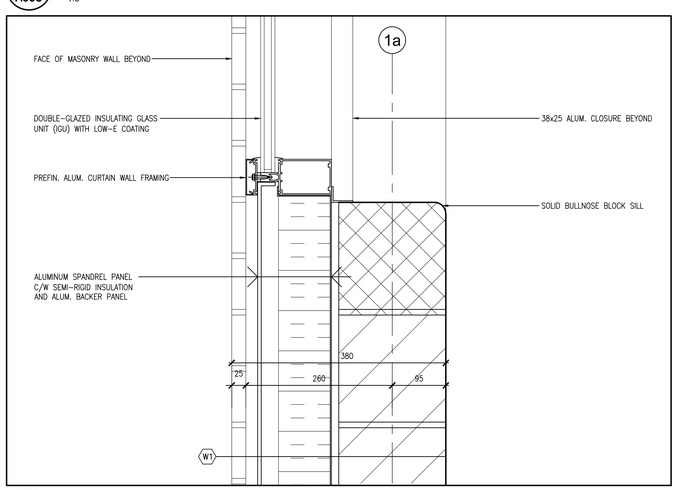
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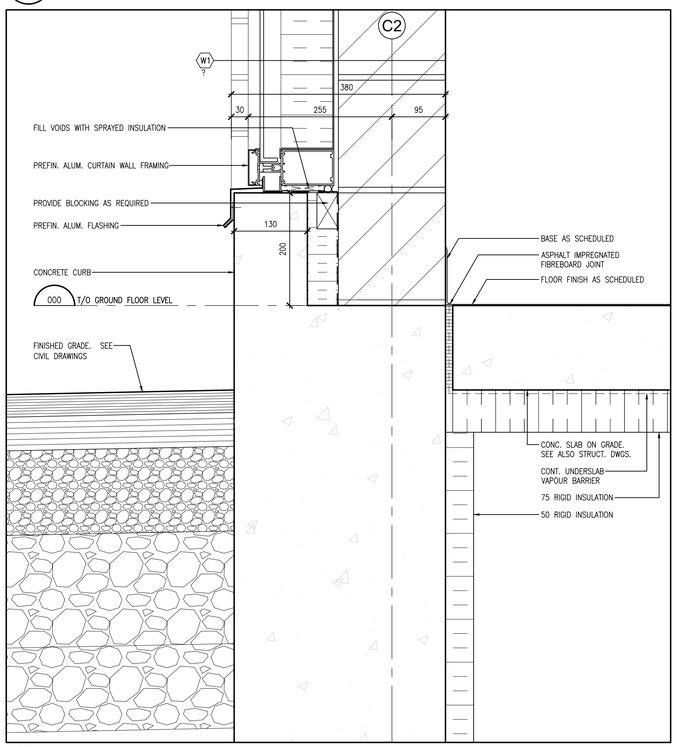
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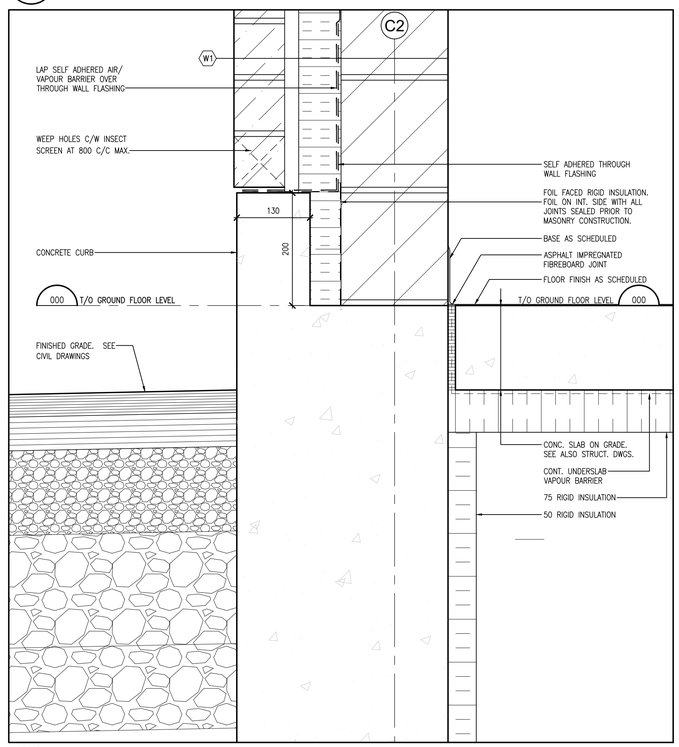
4 A605 SECTION DETAIL
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3 A605 SECTION DETAIL
1:5



2 A605 SECTION DETAIL
1:5



1 A605 SECTION DETAIL
1:5

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BBA
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

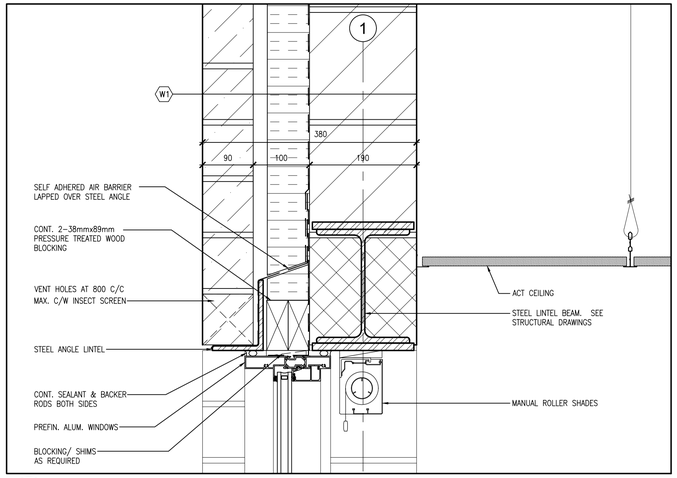
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WHITBY PLANNING - PRE-13-26

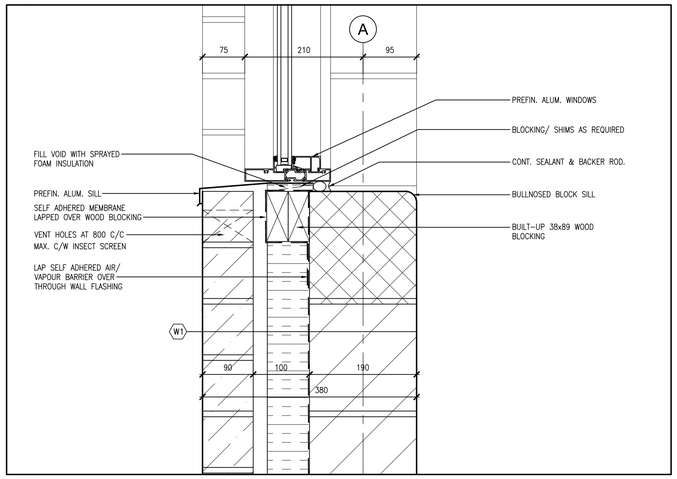
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DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CANDORA FIRM CAUTIUS
LICENCE 8891
NOV. 11, 2026

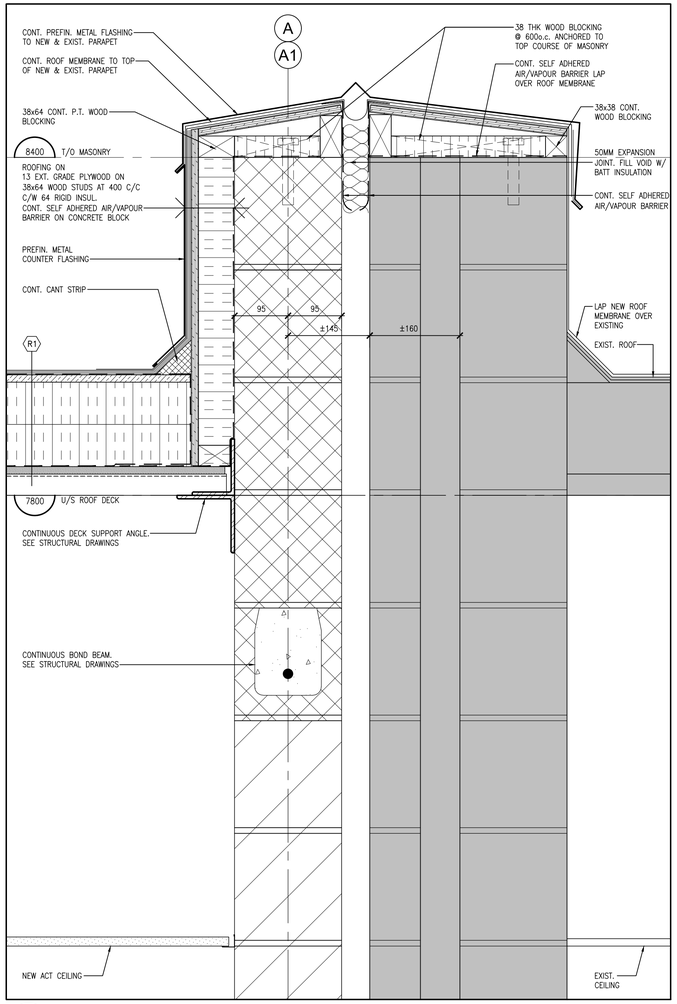
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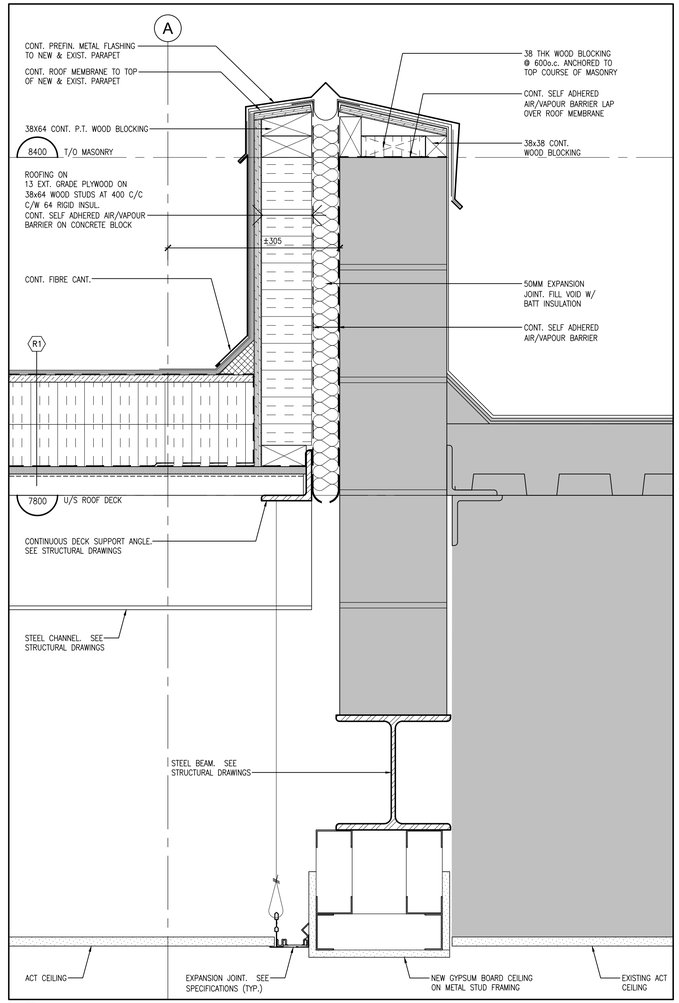
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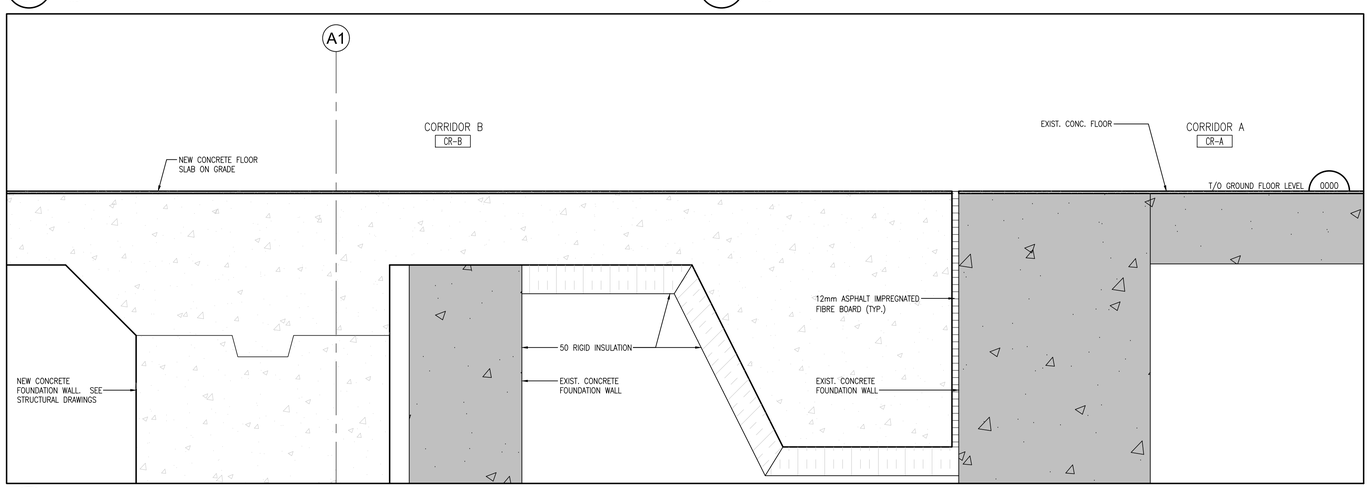
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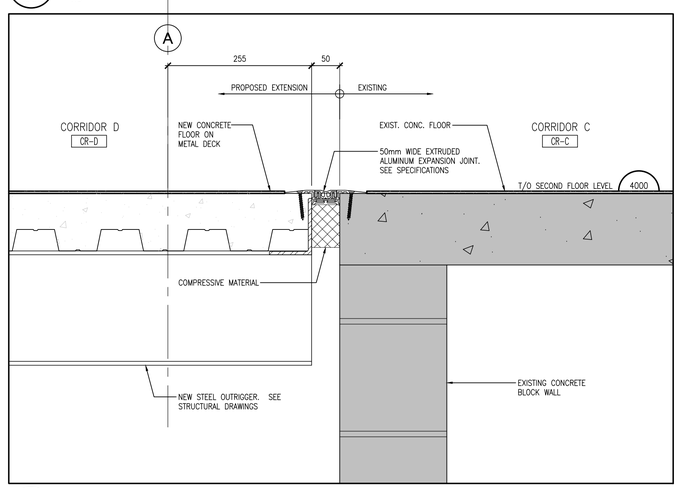
4 / A606 SECTION DETAIL
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3 / A606 SECTION DETAIL
1:5



2 / A606 SECTION DETAIL
1:5



1 / A606 SECTION DETAIL
1:5

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

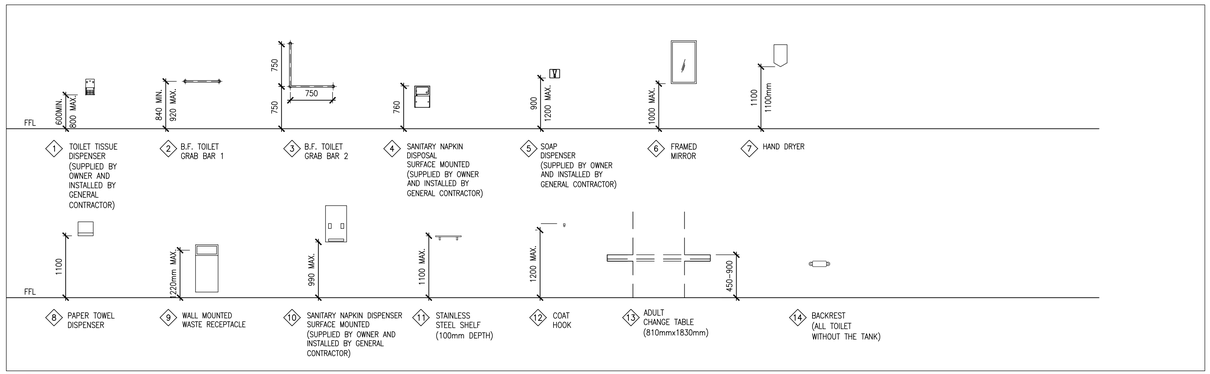
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SECTION DETAILS

WHITBY PLANNING - PRE-13-26

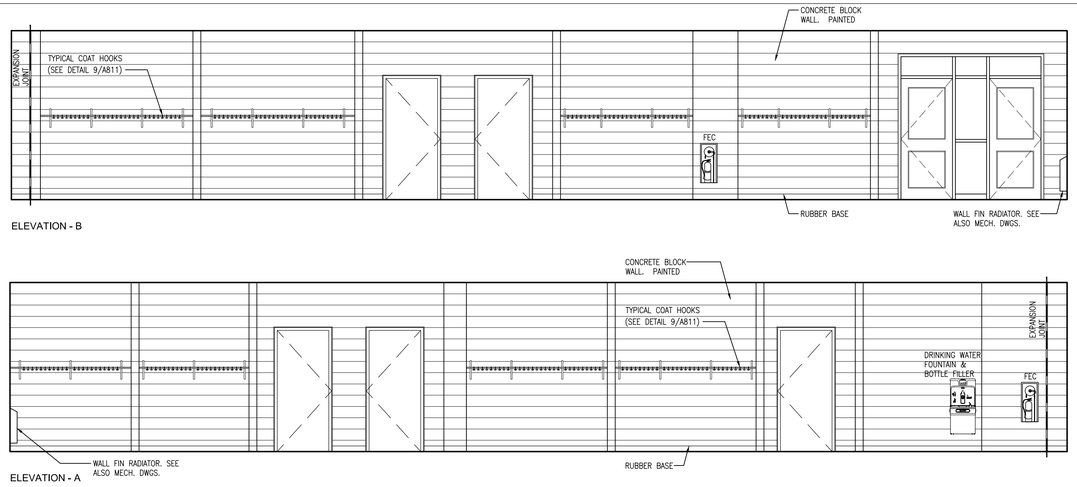
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DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CASSANDRA ERIN CAUTIUS
LICENCE 8881
NOV. 11, 2026

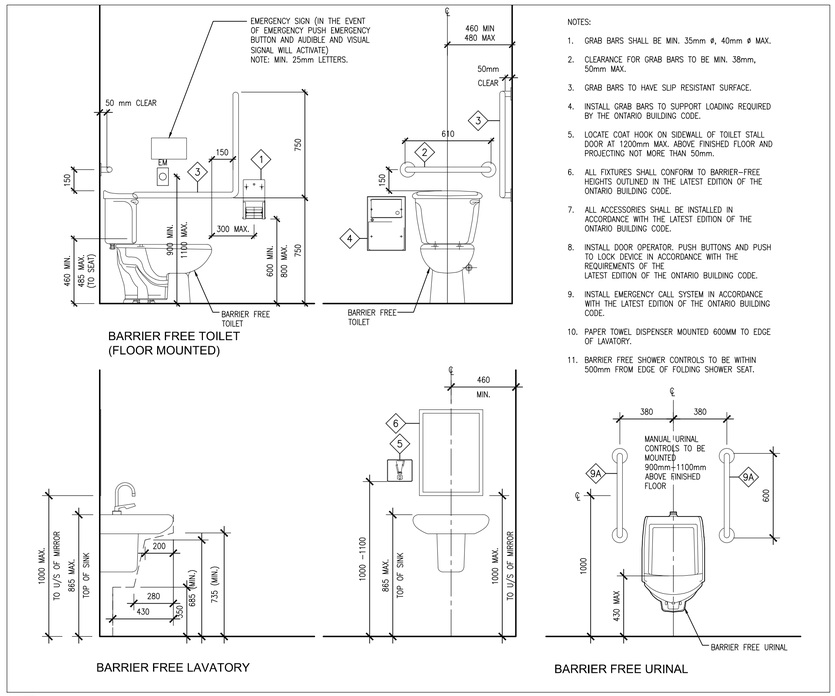
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5 A701 BARRIER FREE MOUNTING HEIGHT REQUIREMENTS
1:50



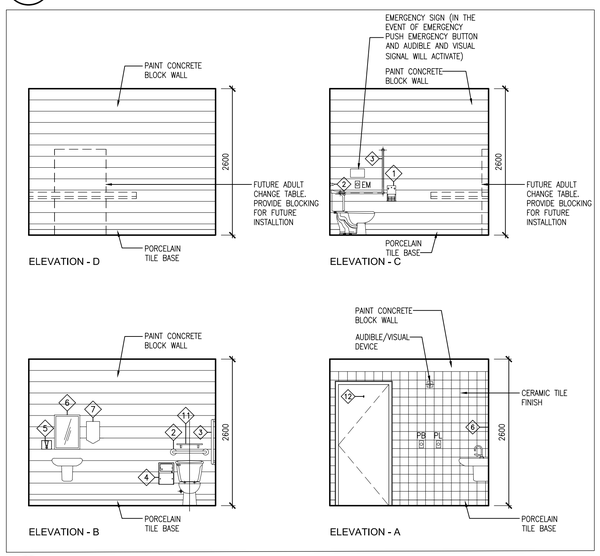
4 A701 INTERIOR ELEVATIONS
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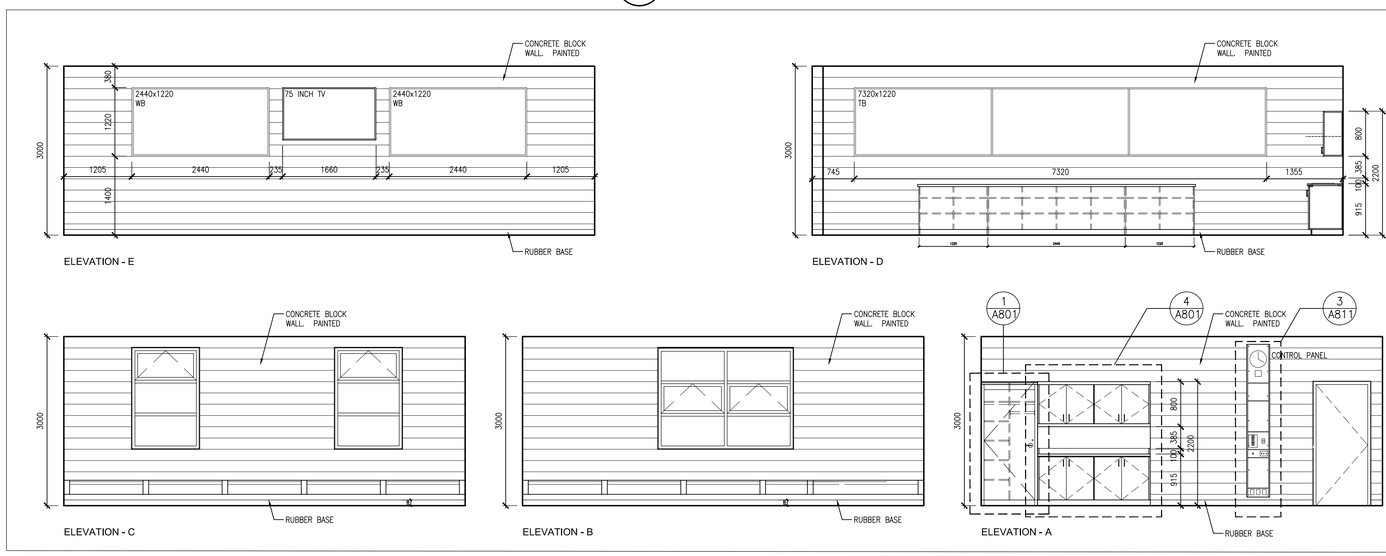
NOTES:

1. GRAB BARS SHALL BE MIN. 35mm ø, 40mm ø MAX.
2. CLEARANCE FOR GRAB BARS TO BE MIN. 38mm, 50mm MAX.
3. GRAB BARS TO HAVE SLIP RESISTANT SURFACE.
4. INSTALL GRAB BARS TO SUPPORT LOADING REQUIRED BY THE ONTARIO BUILDING CODE.
5. LOCATE COAT HOOK ON SIDEWALL OF TOILET STALL DOOR AT 1200mm MAX. ABOVE FINISHED FLOOR AND PROJECTING NOT MORE THAN 50mm.
6. ALL FIXTURES SHALL CONFORM TO BARRIER-FREE HEIGHTS OUTLINED IN THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
7. ALL ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
8. INSTALL DOOR OPERATOR, PUSH BUTTONS AND PUSH TO LOCK DEVICE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
9. INSTALL EMERGENCY CALL SYSTEM IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
10. PAPER TOWEL DISPENSER MOUNTED 600MM TO EDGE OF LAVATORY.
11. BARRIER FREE SHOWER CONTROLS TO BE WITHIN 500mm FROM EDGE OF FOLDING SHOWER SEAT.

3 A701 BARRIER FREE MOUNTING HEIGHT REQUIREMENTS
1:20



2 A701 INTERIOR ELEVATIONS - ACCESSIBLE WASHROOM
1:50



1 A701 INTERIOR ELEVATIONS - TYPICAL CLASSROOM
1:50

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

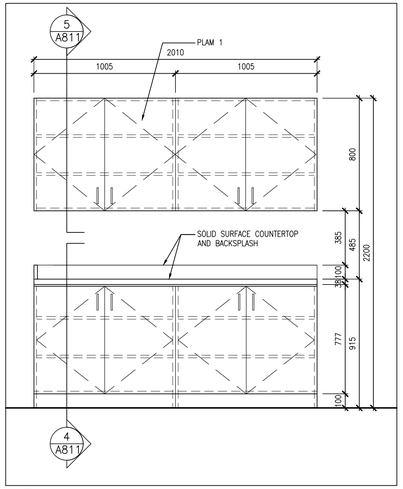
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INTERIOR ELEVATIONS

WHITBY PLANNING - PRE-13-26

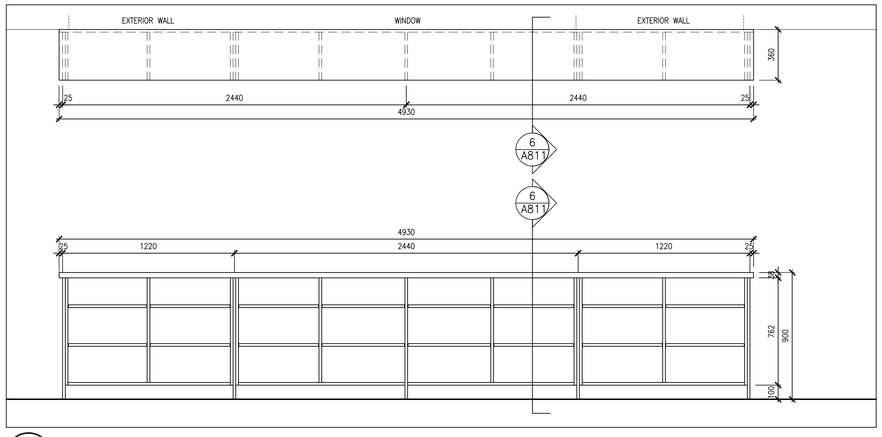
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CHECKED BY: RS
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SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CHANDRA ERIN CAUTIUE
LICENCE 8891
NOV. 11, 2026

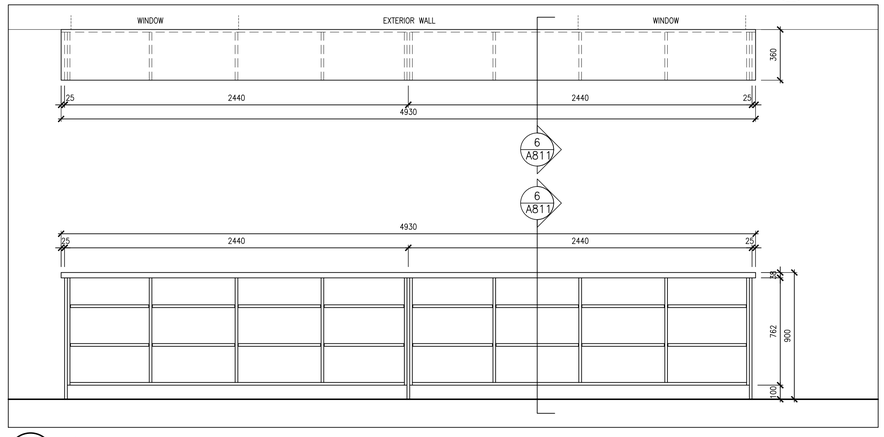
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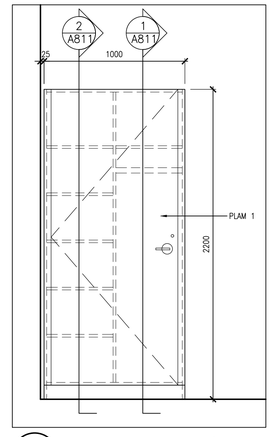
4 A801 TYPICAL CLASSROOM MILLWORK
1:20



3 A801 OPEN SHELF - STYLE 2
1:20



2 A801 OPEN SHELF - STYLE 1
1:20



1 A801 TEACHER'S CLOSET
1:20

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

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1	ISSUED FOR 80% REVIEW	SEP. 16, 2026	BBA
2	ISSUED FOR 90% REVIEW	OCT. 29, 2026	BBA
3	ISSUED FOR PERMIT & TENDER	NOV. 11, 2026	BBA

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

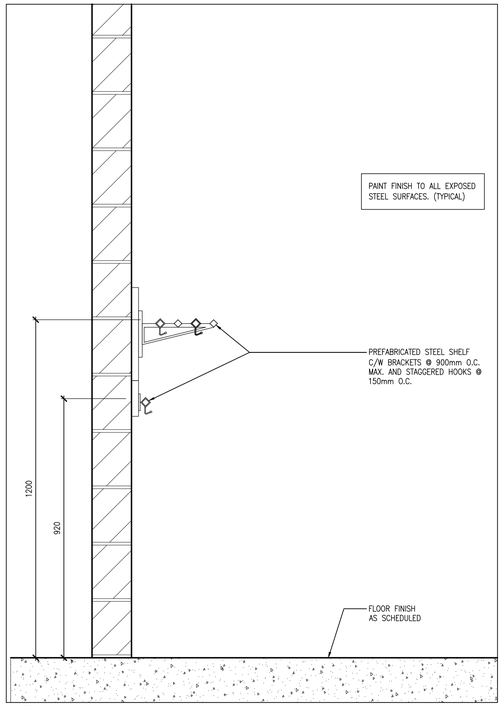
DRAWING:
MILLWORK PLANS
& ELEVATIONS

WHITBY PLANNING - PRE-13-26

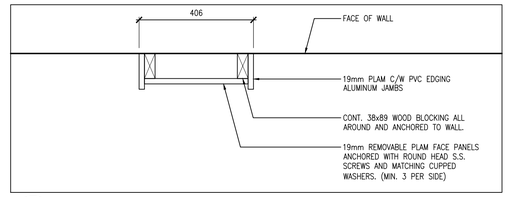
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DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CASSANDRA ERIN CAUTIUS
LICENCE 8881
NOV. 11, 2026

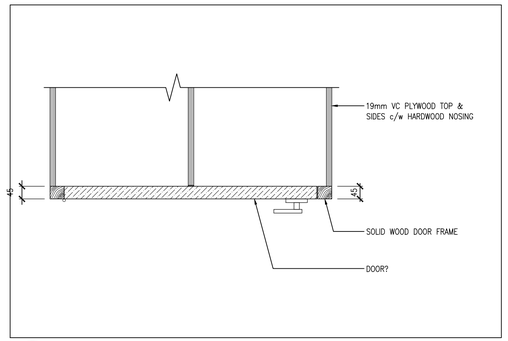
PROJECT NO: 25062
DRAWING NO: A801



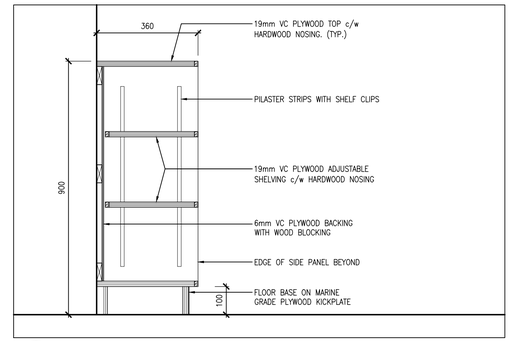
9 / A811 TYPICAL COAT RACK
1:10



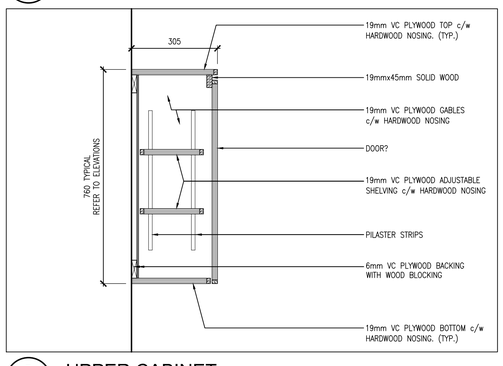
8 / A811 CONTROL PANEL - DETAIL PLAN
1:10



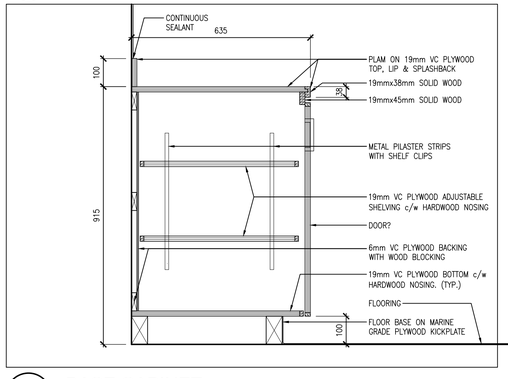
7 / A811 TEACHER CABINET - DETAIL PLAN
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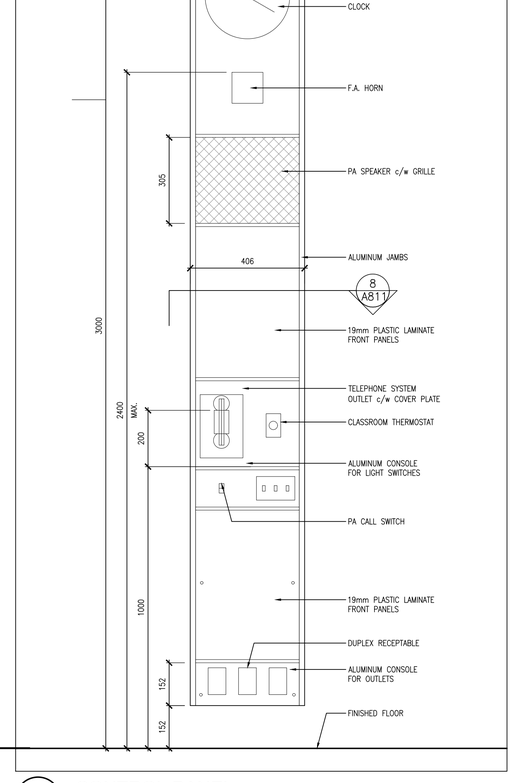
6 / A811 OPEN CLOSET SHELF
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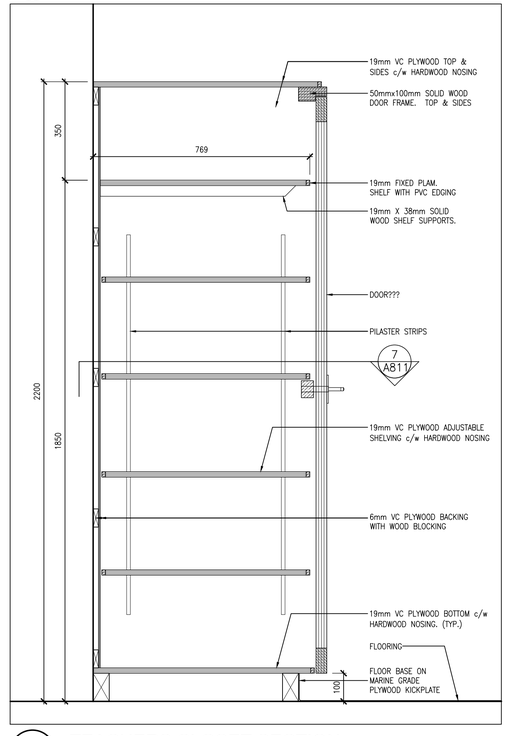
5 / A811 UPPER CABINET
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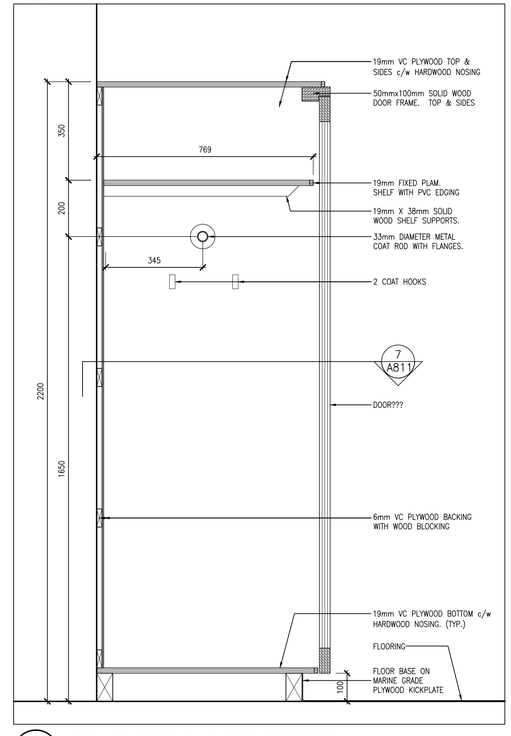
4 / A811 BASE CABINET
1:10



3 / A811 CONTROL PANEL
1:10



2 / A811 TEACHERS CLOSET SECTION
1:10



1 / A811 TEACHERS CLOSET SECTION
1:10

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BBA
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ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DRAWING:
MILLWORK DETAILS

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION OF ARCHITECTS
CASSANDRA ERIN CAUTILIS
LICENCE 8891
NOV. 11, 2026

PROJECT NO: 25062
DRAWING NO: A811

ROOM SCHEDULE

ROOM NO.	ROOM NAME	MAT.	FLOOR	BASE HT. (mm)	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	CEILING HEIGHT	REV.	REMARKS
109C	GIRL'S CHANGE ROOM	MAT	EX/CONC.	EX./150	EXIST.	EXIST.	EXIST.	CB	GB	2600		TO MATCH ORIGINAL CEILING HEIGHT
		FIN	EX./PCT	EX./PCT	PT–EN	PT–EN	PT–EN	PT–EN	PT	–		
109CC	GIRL'S WASHROOM	MAT	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	GB	2600		TO MATCH ORIGINAL CEILING HEIGHT
		FIN	EXIST.	EXIST.	PT–EN	PT–EN	PT–EN	PT–EN	PT	–		
109D	BOY'S CHANGE ROOM	MAT	EX/CONC.	EX./150	EXIST.	EXIST.	EXIST.	CB	GB	2600		TO MATCH ORIGINAL CEILING HEIGHT
		FIN	EX./PCT	EX./PCT	PT–EN	PT–EN	PT–EN	PT–EN	PT	–		
109DD	BOY'S WASHROOM	MAT	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	GB	2600		TO MATCH ORIGINAL CEILING HEIGHT
		FIN	EXIST.	EXIST.	PT–EN	PT–EN	PT–EN	PT–EN	PT	–		
115A	TEACHER'S WORKROOM	MAT	EX/CONC.	150mm	EXIST.	CB/EXIST.	EXIST.	EXIST.	ACP	2600		TO MATCH ORIGINAL CEILING HEIGHT
		FIN	PCT	PCT	PT–EN	PT	PT	LGB/PT	–	–		
115B	UNIVERSAL WASHROOM	MAT	EX/CONC.	150mm	CB	WRGBU	CB	WRGBU	GB	2600		TO MATCH ORIGINAL CEILING HEIGHT
		FIN	PCT	PCT	PT–EN	PCT	PT–EN	PCT	PT	–		
115C	OFFICE	MAT	EX/CONC.	150mm	CB	CB	EXIST.	EXIST.	ACP	2600		TO MATCH ORIGINAL CEILING HEIGHT
		FIN	PCT	PCT	PT–EN	PT–EN	LGB/PT	LGB/PT	–	–		
ST–C1	STAIR C	MAT	EXIST.	EXIST.	EX CB	EX CB	EX CB	EX CB	EX ACP/GB	VARIES		PT EX. EXPOSED STAIR METAL RISERS GUARDRAIL, HANDRAILS AND STRINGERS
		FIN	EXIST.	EXIST.	PT	PT	PT	PT	PT	–		
CR–A	CORRIDOR A	MAT	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.		ALLOW FOR NEW PAINT FOR APPROX 7M LINEAR OF EAST WALL
		FIN	EXIST.	EXIST.	EXIST.	PT.	EXIST.	EXIST.	EXIST.	EXIST.		
126	STUDENT WELLNESS	MAT	CONC.	100mm	CB	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	VCT	RB	PT	PT	PT	PT	–	–		
126A	OFFICE	MAT	CONC.	100mm	CB	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	VCT	RB	PT	PT	PT	PT	–	–		
128	CLASSROOM	MAT	CONC.	100mm	CB	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	VCT	RB	PT	PT	PT	PT	–	–		
130	CLASSROOM	MAT	CONC.	100mm	CB	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	VCT	RB	PT	PT	PT	PT	–	–		
131	CLASSROOM	MAT	CONC.	100mm	CB	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	VCT	RB	PT	PT	PT	PT	–	–		
133	CLASSROOM	MAT	CONC.	100mm	CB	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	VCT	RB	PT	PT	PT	PT	–	–		
CR–B	CORRIDOR B	MAT	CONC.	150mm	–	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	PCT	PCT	–	PT	PT	PT	–	–		
ST–D1	STAIR D	MAT	CONC.	150mm	CB	CB	CB	CB	ACP/GB	VARIES		PT EX. EXPOSED GUARDRAILS, HANDRAILS AND STRINGERS. SEE FLOOR FINISH PL.
		FIN	PCT/R	PCT/R	PT	PT	PT	PT	PT	–		
205	MECHANICAL ROOM	MAT	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.		
		FIN	EPOXY	EXIST.	–	–	–	–	–	–		
ST–C2	STAIR C	MAT	EXIST.	EXIST.	EX CB	EX CB	EX CB	EX CB	EX ACP	–		PT EX. EXPOSED STAIR METAL RISERS GUARDRAIL, HANDRAILS AND STRINGERS
		FIN	EXIST.	EXIST.	PT	PT	PT	PT	–	–		
223	CLASSROOM	MAT	CONC.	100mm	CB	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	VCT	RB	PT	PT	PT	PT	–	–		
225	CLASSROOM	MAT	CONC.	100mm	CB	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	VCT	RB	PT	PT	PT	PT	–	–		
228	STUDENT WELLNESS	MAT	CONC.	100mm	CB	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	VCT	RB	PT	PT	PT	PT	–	–		
228A	STORAGE	MAT	CONC.	100mm	CB	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	VCT	RB	PT	PT	PT	PT	–	–		
230	CLASSROOM	MAT	CONC.	100mm	CB	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	VCT	RB	PT	PT	PT	PT	–	–		
232	CLASSROOM	MAT	CONC.	100mm	CB	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	VCT	RB	PT	PT	PT	PT	–	–		
CR–D	CORRIDOR D	MAT	CONC.	150mm	–	CB	CB	CB	ACP	2820		SEE RC PLAN & FLOOR FINISH PLAN
		FIN	PCT	PCT	–	PT	PT	PT	–	–		
ST–D	STAIR D	MAT	CONC.	150mm	CB	CB	CB	CB	ACP/GP	2820/ VARIES		PT EX. EXPOSED GUARDRAILS, HANDRAILS AND STRINGERS. SEE FLOOR FINISH PL.
		FIN	PCT/RB	PCT/RB	PT	PT	PT	PT	–	–		

DOOR AND FRAME SCHEDULE

DOOR NO.	DOOR SIZE AND THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLASS	FRAME TYPE	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME MATERIAL	FRAME FINISH	FIRE RATING	DOOR HARDWARE: BALANCE/HINGE	CLOSER	CONCEALED	THRESHOLD	LOCK & PLATE	PANIC HARDWARE	WEATHER STRIPPING	ELECTRIC STRIKE	DOOR OPERATOR	FLUSH TO TRANSITION	PUSH PLATE	DOORSTOP	MONITOR MAGNETIC HOLD OPEN	REMARKS
115B	965x2150x45	M	SCW	URETH	––	F1	H2	J2	HM	PT–3	20 MIN.	●	●			●				●	●	●		●		–––
115A	965x2150x45	NL	SCW	URETH	FRG	F1	H2	J2	HM	PT–3	20 MIN.	●	●	●		●								●		
126	965x2150x45	NL	SCW	URETH	GL2	F1	H2	J2	HM	PT–3		●		●		●								●		
126A	965x2150x45	NL	SCW	URETH	GL2	F1	H2	J2	HM	PT–3		●		●		●								●		
131	965x2150x45	IG	SCW	URETH	GL2	F1	H2	J2	HM	PT–3		●		●		●								●		
128	965x2150x45	IG	SCW	URETH	GL2	F1	H2	J2	HM	PT–3		●		●		●								●		
133	965x2150x45	IG	SCW	URETH	GL2	F1	H2	J2	HM	PT–3		●		●		●								●		
130	965x2150x45	IG	SCW	URETH	GL2	F1	H2	J2	HM	PT–3		●		●		●								●		
228	965x2150x45	NL	SCW	URETH	GL2	F1	H2	J2	HM	PT–3		●		●		●								●		
228A	965x2150x45	M	HM	URETH	GL2	F1	H2	J2	HM	PT–3		●		●		●								●		
223	965x2150x45	IG	SCW	URETH	GL2	F1	H2	J2	HM	PT–3		●		●		●								●		
230	965x2150x45	IG	SCW	URETH	GL2	F1	H2	J2	HM	PT–3		●		●		●								●		
225	965x2150x45	IG	SCW	PT–7	GL2	F1	H2	J2	HM	PT–3		●		●		●								●		
232	965x2150x45	IG	HM	PT–7	GL2	F1	H2	J2	HM	PT–3		●		●		●								●		
STD–1–1	915x2150x45	2G	HM	PT–7	FRG	SC–1	H2	J2	HM	PT–3	45 MIN.	●	●		●		●								●	
STD–1–2	915x2150x45	2G	HM	PT–7	FRG	SC–1	H2	J2	HM	PT–3	45 MIN.	●				●	●	●		●					●	
STD–1–3	915x2150x45	2G	AL2	ALUM	ANOD				ALUM	ANOD		●		●		●	●	●	●					●		
STD–2–1	915x2150x45	2G	HM	PT–7	FRG	SC–1	H2	J2	HM	PT–3	45 MIN.	●	●			●	●								●	
STD–2–2	915x2150x45	2G	HM	URETH	FRG	SC–1	H2	J2	HM	PT–3	45 MIN.	●	●			●	●								●	
115C	965x2150x45	NL	SCW	URETH	FRG	F1	H2	J2	HM	PT–3	20 MIN.	●	●			●	●								●	
STC–1–2	915x2150x45	2G	AL2	ALUM	ANOD				ALUM	ANOD		●		●		●	●		●					●		

FINISH ABBREVIATION LEGEND

ACP	ACOUSTIC CEILING PANEL	PCT	PORCELAIN CERAMIC TILE
ALUM	ALUMINUM	PHP	PHENOLIC PANEL
ANOD	ANODIZED	PHSS	SEAMLESS POLYURETHANE HIGH PERFORMANCE SPORTS SURFACE
AP	ACOUSTIC WALL PANEL		
BPG	BACK PAINTED GLASS	PL	PLAM
CB	CONCRETE BLOCK	PREFIN	PREFINISHED
CE	COVED EPOXY	PS	PRESSED STEEL
CONC	CONCRETE	PT	PAINT
CT	CERAMIC TILE	RB	RUBBER BASE
CPT	CARPET TILE	RST	RUBBER STAIR TREAD
EF	EPOXY FINISH	R.O.	ROUGH OPENING
EN	ENAMEL PAINT	RSF	RESILIENT SHEET FLOORING
EX	EXISTING	SC	SEALED CONCRETE
EXIST	EXISTING	SCW	SOLID CORE WOOD
EXP	EXPOSED	SEAL	SEALER
FRG	FIRE RESISTANT GLAZING	SP	SPANDREL GLASS
GL	GLASS	TG	TEMPERED GLASS
GB	GYPSUM BOARD	TWSI	TACTILE WARNING SURFACE INDICATOR
HM	HOLLOW METAL	URETH	URETHANE
LGB	ABUSE RESIST. GYPSUM B. LAM. TO WALL	VCT	VINYL COMPOSITION TILE
NTS	NOT TO SCALE	WRGB	WATER RESISTANT GYPSUM BOARD
PAD	PADDING	WD	WOOD

GENERAL NOTES

1. GLASS PANELS IN DOORS TO COMPLY WITH BARRIER FREE VISIBILITY REQUIREMENTS.
2. PRESSED STEEL FRAMES WITH A "T" DESIGNATION INDICATE THERMALLY BROKEN FRAMES.
3. PREPARE DOORS AND FRAMES FOR ELECTRONIC HARDWARE WHERE INDICATED. CONDUITS SHALL BE CONCEALED IN FRAMES.
4. ALL DOORS IN FIRE SEPARATION LOCATIONS SHALL HAVE LATCHING DEVICE.
5. PRESSED STEEL FRAME DEPTHS SHALL BE 146MM UNLESS OTHERWISE NOTED.

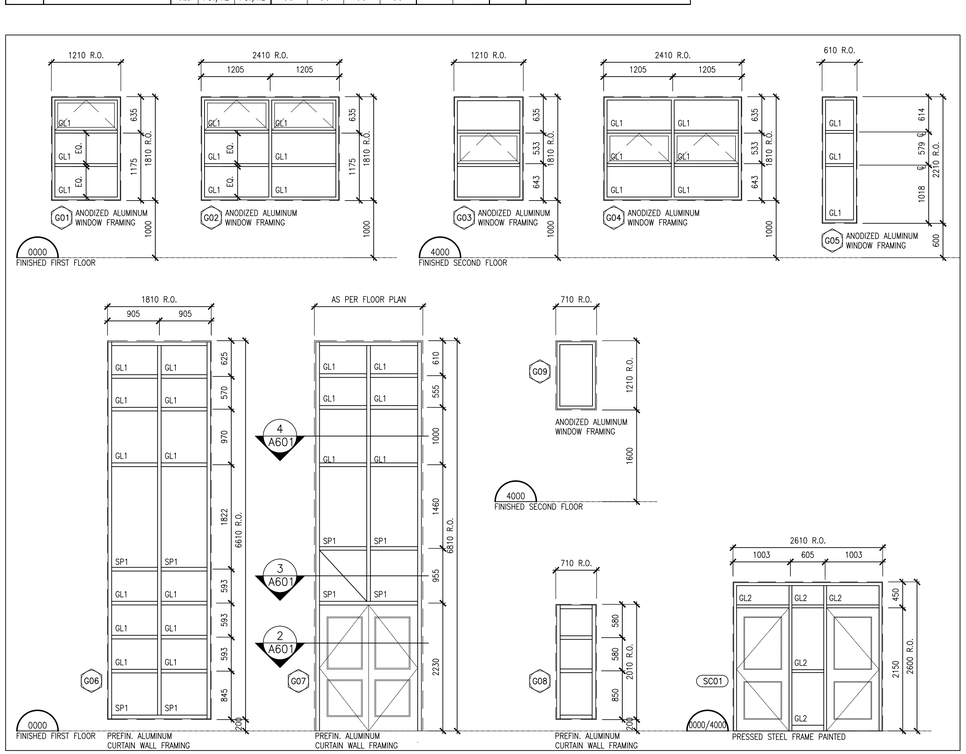
GLAZING LEGEND

GL1 25mm SEALED TEMPERED, DOUBLE GLAZED UNITS

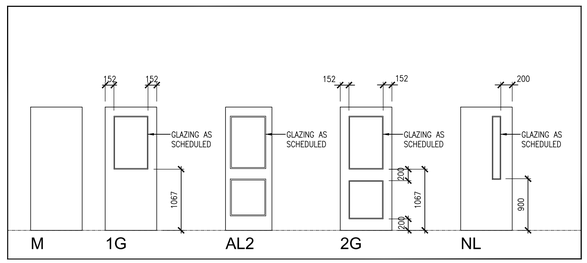
SP1 4mm ALUMINUM COMPOSITE METAL SPANDREL PANEL BACK PAN AND SEMI–RIGID INSULATION BETWEEN

GL2 6 mm TEMPERED, SINGLE GLAZED UNITS

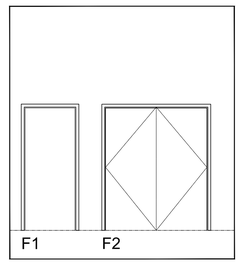
FRG FIRE RESISTANT GLAZING



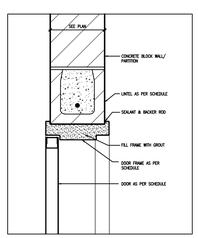
WINDOW & SCREEN SCHEDULE



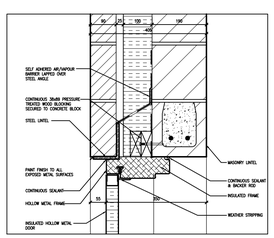
DOOR SCHEDULE



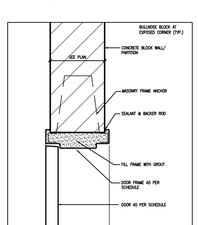
FRAME SCHEDULE



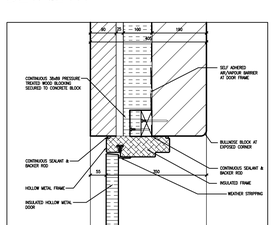
DETAIL H2



DETAIL H1



DETAIL J2



DETAIL J1

PAINT COLOURS

1. IVORY – MATCH EXISTING (BASE WALL COLOUR & GB CEILINGS)
2. PALE BLUE – MATCH EXISTING (HOLLOW METAL DOORS)
3. MED. GREY – MATCH EXISTING (HOLLOW METAL DOOR FRAMES)
4. LIGHT BLUE – MATCH EXISTING (CHANGE ROOM ACCENT PAINT)

GENERAL NOTES

A. GLASS PANELS IN DOORS TO COMPLY WITH BARRIER FREE VISIBILITY REQUIREMENTS.

B. ALL EXTERIOR FRAMES SHALL BE INSULATED AND THERMALLY BROKEN.

C. ALUMINUM EXTERIOR DOORS TO HAVE INSULATED FRAMES.

D. PREPARE DOORS AND FRAMES FOR ELECTRONIC HARDWARE WHERE INDICATED. CONDUITS SHALL BE CONCEALED IN FRAMES.

E. REMOVE AND REINSTALL (MISC. ELECTRONIC ATTACHMENTS) AS PER EXISTING DOOR LOCATIONS. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.

F. ALL EXTERIOR DOORS SHALL HAVE WEATHERSTRIPPING & ALUMINUM THRESHOLD.

G. ALL EXTERIOR GLAZING SHALL BE TYPE GL1 UNLESS NOTED OTHERWISE.

H. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES AS REQUIRED FOR NEW WORK.

J. ALL DOORS IN FIRE SEPARATION LOCATIONS SHALL HAVE LATCHING DEVICE.

K. PRESSED STEEL FRAME DEPTHS SHALL BE 146MM UNLESS OTHERWISE NOTED.

L. AT ALL EXISTING LINTELS, REMOVE ALL RUSTS TO BE REPAINTED TO MATCH EXISTING.

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DRAWING:
SCHEDULES

WHITBY PLANNING - PRE-13-26

DESIGN BY: RS
DRAWN BY: RR
CHECKED BY: RS
DATE: NOV. 2026
SCALE:

SEAL: ONTARIO ASSOCIATION OF ARCHITECTS — CHADORA THIS CAUTUS — LICENCE 8891 — NOV. 11, 2026

PROJECT NO: 25062

DRAWING NO: A901

TOPOGRAPHIC FEATURES AND ELEVATION ARE BASED ON FIELD SURVEYS CARRIED OUT BY IBW SURVEYORS FILE A-060135-TOPO DATED JULY 6, 2026.

HORIZONTAL DATUM IS BASED ON NAD83 UTM ZONE 17.

ALL STORM INVERT DATA IS BASED OFF OF THE PLUMBING AND DRAINAGE SITE PLAN - AS BUILT PREPARED BY NEKISON ENG. & C. DATED JULY 15, 2001.

ALL DIMENSIONS SHOWN ARE IN METERS OR MILLIMETERS, UNLESS OTHERWISE NOTED.



MATCHLINE - SEE SHEET C002

LEGEND

EXISTING

- SIB/IB — EX. SURVEY BARS
- EX. PROPERTY LINE
- EX. SANITARY & MANHOLE
- EX. ASPHALT
- EX. TOP OF SLOPE
- EX. TOE OF SLOPE
- EX. DITCH or SWALE
- EX. FENCE
- EX. OVERHEAD LINES
- EX. UNDERGROUND LINES
- EX. POWER POLE & ANCHOR
- EX. GAS MAIN
- 100.00 1.0% — EX. GRADES & ELEVATIONS

PROPOSED

- PR. STORM & MANHOLE
- PR. ASPHALT
- PR. CONCRETE
- PR. TOP OF SLOPE
- PR. TOE OF SLOPE/ GRADING LIMITS
- PR. DITCH or SWALE
- 100.00 1.0% — PR. ELEVATIONS & GRADES

PROJECT BENCHMARKS

BM1 - ELEV: 108.04m
MAG IN ASPHALT, LOCATION AS SHOWN ON THIS PLAN.

NO.	DATE (Y/M/D)	REVISION	BY
2.	26/10/19	ISSUED FOR SPA#2	P.Q
1.	26/08/27	ISSUED FOR SPA	P.Q

NOT FOR CONSTRUCTION

MONUMENT

MONUMENT PROJECT No.: 26-0101

DRAWN:	C.S/T.M.
DESIGNED:	T.M.
CHECKED:	P.Q.
ENGINEER:	P.Q.
DATE:	2026/10/19
H SCALE:	1:200
V SCALE:	N/A

LICENSED PROFESSIONAL ENGINEER
P.C. QUINN
100528152
2026/10/19
PROVINCE OF ONTARIO

DURHAM CATHOLIC DISTRICT SCHOOL BOARD
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL
EIGHT CLASSROOM ADDITION
WHITBY, ONTARIO

GRADING AND EROSION CONTROL PLAN

DRAWING No.
C001

0 6 12 Meters

Z:\Stores\01_ENGINEERING\26-0101-BBA-St. Luke\3_Design\1-C3D\1-Models\26-0100-BBA-St. Lukes_Base.dwg

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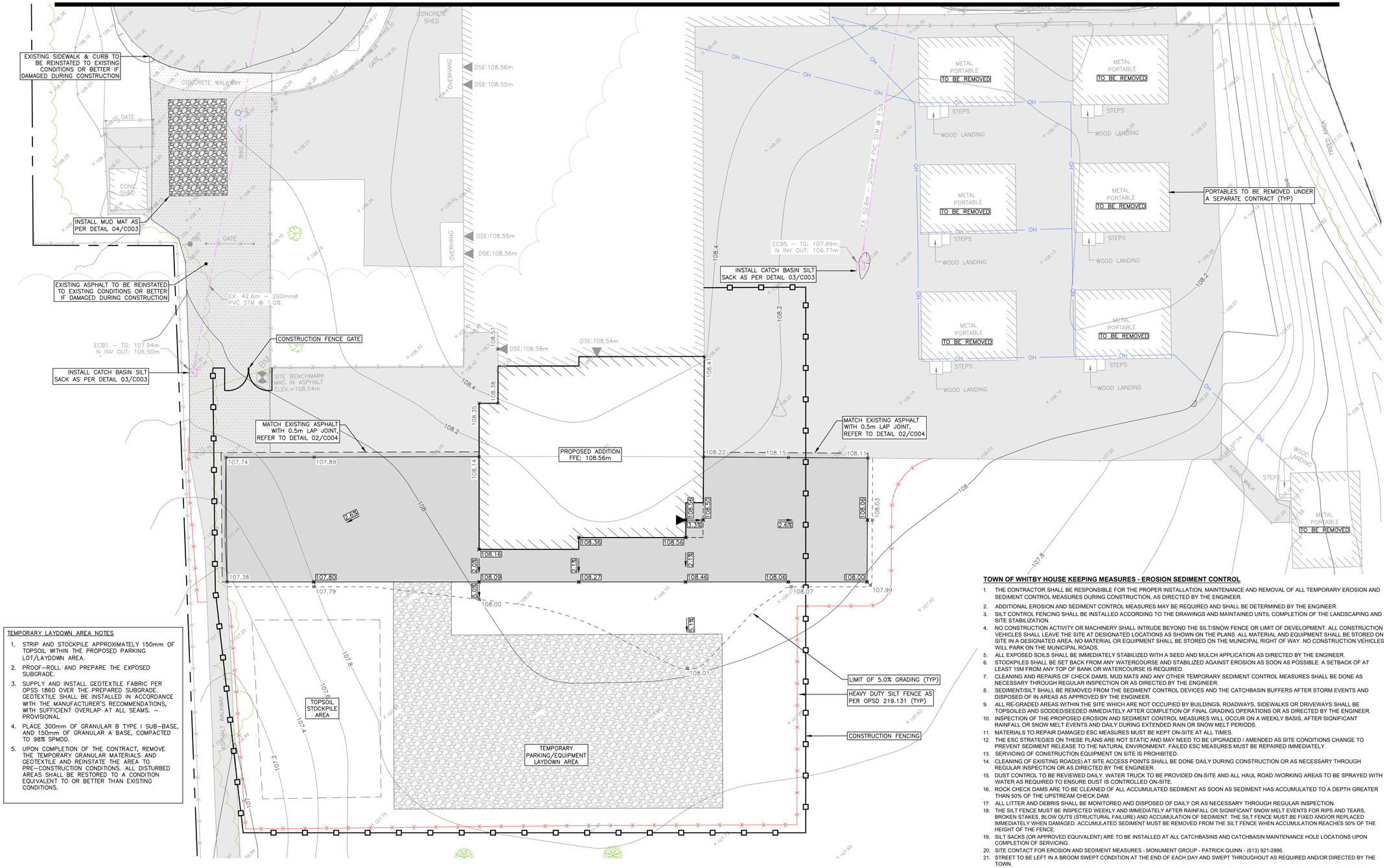
TOPOGRAPHIC FEATURES AND ELEVATION ARE BASED ON FIELD SURVEYS CARRIED OUT BY IBW SURVEYORS FILE A-060135-TOPO DATED JULY 6, 2026.

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MATCHLINE - SEE SHEET C001



TEMPORARY LAYDOWN AREA NOTES

1. STRIP AND STOCKPILE APPROXIMATELY 150mm OF TOPSOIL WITHIN THE PROPOSED PARKING LOT/LAYDOWN AREA.
2. PROOF-ROLL AND PREPARE THE EXPOSED SUBGRADE.
3. SUPPLY AND INSTALL GEOTEXTILE FABRIC PER OPSS 1860 OVER THE PREPARED SUBGRADE. GEOTEXTILE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, WITH SUFFICIENT OVERLAP AT ALL SEAMS. - PROVISIONAL
4. PLACE 300mm OF GRANULAR B TYPE I SUB-BASE, AND 150mm OF GRANULAR A BASE, COMPACTED TO 98% SPMDD.
5. UPON COMPLETION OF THE CONTRACT, REMOVE THE TEMPORARY GRANULAR MATERIALS AND GEOTEXTILE AND REINSTATE THE AREA TO PRE-CONSTRUCTION CONDITIONS. ALL DISTURBED AREAS SHALL BE RESTORED TO A CONDITION EQUIVALENT TO OR BETTER THAN EXISTING CONDITIONS.

TOWN OF WHITBY HOUSE KEEPING MEASURES - EROSION SEDIMENT CONTROL

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION, AS DIRECTED BY THE ENGINEER.
2. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AND SHALL BE DETERMINED BY THE ENGINEER.
3. SILT CONTROL FENCING SHALL BE INSTALLED ACCORDING TO THE DRAWINGS AND MAINTAINED UNTIL COMPLETION OF THE LANDSCAPING AND SITE STABILIZATION.
4. NO CONSTRUCTION ACTIVITY OR MACHINERY SHALL INTRUDE BEYOND THE SILT/SNOW FENCE OR LIMIT OF DEVELOPMENT. ALL CONSTRUCTION VEHICLES SHALL LEAVE THE SITE AT DESIGNATED LOCATIONS AS SHOWN ON THE PLANS. ALL MATERIAL AND EQUIPMENT SHALL BE STORED ON SITE IN A DESIGNATED AREA. NO MATERIAL OR EQUIPMENT SHALL BE STORED ON THE MUNICIPAL RIGHT OF WAY. NO CONSTRUCTION VEHICLES WILL PARK ON THE MUNICIPAL ROADS.
5. ALL EXPOSED SOILS SHALL BE IMMEDIATELY STABILIZED WITH A SEED AND MULCH APPLICATION AS DIRECTED BY THE ENGINEER.
6. STOCKPILES SHALL BE SET BACK FROM ANY WATERCOURSE AND STABILIZED AGAINST EROSION AS SOON AS POSSIBLE. A SETBACK OF AT LEAST 15M FROM ANY TOP OF BANK OR WATERCOURSE IS REQUIRED.
7. CLEANING AND REPAIRS OF CHECK DAMS, MUD MATS AND ANY OTHER TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE DONE AS NECESSARY THROUGH REGULAR INSPECTION OR AS DIRECTED BY THE ENGINEER.
8. SEDIMENT/SILT SHALL BE REMOVED FROM THE SEDIMENT CONTROL DEVICES AND THE CATCHBASIN BUFFERS AFTER STORM EVENTS AND DISPOSED OF IN AREAS AS APPROVED BY THE ENGINEER.
9. ALL RE-GRADED AREAS WITHIN THE SITE WHICH ARE NOT OCCUPIED BY BUILDINGS, ROADWAYS, SIDEWALKS OR DRIVEWAYS SHALL BE TOPSOILED AND SODDED/SEEDED IMMEDIATELY AFTER COMPLETION OF FINAL GRADING OPERATIONS OR AS DIRECTED BY THE ENGINEER.
10. INSPECTION OF THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES WILL OCCUR ON A WEEKLY BASIS, AFTER SIGNIFICANT RAINFALL OR SNOW MELT EVENTS AND DAILY DURING EXTENDED RAIN OR SNOW MELT PERIODS.
11. MATERIALS TO REPAIR DAMAGED ESC MEASURES MUST BE KEPT ON-SITE AT ALL TIMES.
12. THE ESC STRATEGIES ON THESE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED / AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASE TO THE NATURAL ENVIRONMENT. FAILED ESC MEASURES MUST BE REPAIRED IMMEDIATELY.
13. SERVICING OF CONSTRUCTION EQUIPMENT ON SITE IS PROHIBITED.
14. CLEANING OF EXISTING ROAD(S) AT SITE ACCESS POINTS SHALL BE DONE DAILY DURING CONSTRUCTION OR AS NECESSARY THROUGH REGULAR INSPECTION OR AS DIRECTED BY THE ENGINEER.
15. DUST CONTROL TO BE REVIEWED DAILY. WATER TRUCK TO BE PROVIDED ON-SITE AND ALL HAUL ROAD /WORKING AREAS TO BE SPRAYED WITH WATER AS REQUIRED TO ENSURE DUST IS CONTROLLED ON-SITE.
16. ROCK CHECK DAMS ARE TO BE CLEANED OF ALL ACCUMULATED SEDIMENT AS SOON AS SEDIMENT HAS ACCUMULATED TO A DEPTH GREATER THAN 50% OF THE UPSTREAM CHECK DAM.
17. ALL LITTER AND DEBRIS SHALL BE MONITORED AND DISPOSED OF DAILY OR AS NECESSARY THROUGH REGULAR INSPECTION.
18. THE SILT FENCE MUST BE INSPECTED WEEKLY AND IMMEDIATELY AFTER RAINFALL OR SIGNIFICANT SNOW MELT EVENTS FOR RIPS AND TEARS, BROKEN STAKES, BLOW OUTS (STRUCTURAL FAILURE) AND ACCUMULATION OF SEDIMENT. THE SILT FENCE MUST BE FIXED AND/OR REPLACED IMMEDIATELY WHEN DAMAGED. ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF THE FENCE.
19. SILT SACKS (OR APPROVED EQUIVALENT) ARE TO BE INSTALLED AT ALL CATCHBASINS AND CATCHBASIN MAINTENANCE HOLE LOCATIONS UPON COMPLETION OF SERVICING.
20. SITE CONTACT FOR EROSION AND SEDIMENT MEASURES - MONUMENT GROUP - PATRICK QUINN - (613) 921-2886.
21. STREET TO BE LEFT IN A BROOM SWEPT CONDITION AT THE END OF EACH DAY AND SWEPT THROUGHOUT AS REQUIRED AND/OR DIRECTED BY THE TOWN.
22. THE CONTRACTOR SHALL KEEP ON SITE, AT ALL TIMES, SUFFICIENT ADDITIONAL MATERIALS AND EROSION AND SEDIMENT CONTROL DEVICES REQUIRED TO COMPLETE EMERGENCY REPAIRS TO EROSION AND SEDIMENT CONTROL MEASURES.

LEGEND

EXISTING

- SIB/IB — EX. SURVEY BARS
- EX. PROPERTY LINE
- EX. SANITARY & MANHOLE
- EX. ASPHALT
- EX. TOP OF SLOPE
- EX. TOE OF SLOPE
- EX. DITCH or SWALE
- EX. FENCE
- OH — EX. OVERHEAD LINES
- UG — EX. UNDERGROUND LINES
- PP — EX. POWER POLE & ANCHOR
- GAS — EX. GAS MAIN
- 100.00 1.0% — EX. GRADES & ELEVATIONS

PROPOSED

- PR. STORM & MANHOLE
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PROJECT BENCHMARKS

BM1 - ELEV: 108.04m
MAG IN ASPHALT, LOCATION AS SHOWN ON THIS PLAN.

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DRAWN: C.S/T.M.	
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LICENSED PROFESSIONAL ENGINEER — P.C. QUINN 100528152 — 2026/10/19 — PROVINCE OF ONTARIO

DURHAM CATHOLIC DISTRICT SCHOOL BOARD
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL
EIGHT CLASSROOM ADDITION
WHITBY, ONTARIO

GRADING AND EROSION CONTROL PLAN

DRAWING No.
C002

0 6 12 Meters

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GENERAL NOTES:

1. THESE DRAWINGS MAY INCLUDE INFORMATION PROVIDED BY OTHERS. MONUMENT GROUP BELIEVES THIS INFORMATION TO BE DEPENDABLE BUT HAS NOT VERIFIED ITS ACCURACY AND/OR COMPLETENESS AND, ACCORDINGLY, SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY RESULT FROM ITS INCORPORATION HEREIN.
2. HERE WITHIN, THE FOLLOWING STAKEHOLDERS ARE USED IN REFERENCE:
   a. "MUNICIPALITY" - TOWN OF WHITBY
   b. "COUNTY" - DURHAM REGION
   c. "CONSERVATION AUTHORITY" - CENTRAL LAKE ONTARIO CONSERVATION AUTHORITY
   d. "ENGINEER" - MONUMENT GROUP
3. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED BY THE ACT.
4. ALL WORK SHALL HAVE MUNICIPAL, COUNTY, AND CONSERVATION AUTHORITY APPROVAL - AS REQUIRED - BEFORE COMMENCEMENT OF CONSTRUCTION.
5. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL APPLICABLE SEDIMENT AND EROSION CONTROL MEASURES ARE IN PLACE AND INSTALLED ACCORDING TO APPLICABLE ONTARIO PROVINCIAL STANDARDS DRAWINGS AND/OR AS DETAILED HERE WITHIN.
6. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND MONITOR THE WORKING CONDITION OF EACH EROSION AND SEDIMENT CONTROL APPLICATION FOLLOWING ALL MAJOR RAINSTORM.
7. EROSION AND CONTROL MEASURES SHOULD NOT BE REMOVED UNTIL SUFFICIENT VEGETATION HAS BEEN ACCOMPLISHED ON ALL DISTURBED AREAS. ONCE SUFFICIENT VEGETATION HAS BEEN ACHIEVED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY REMOVE ALL APPLICATIONS TO THE SATISFACTION OF THE ENGINEER AND DISPOSE OF SEDIMENT OFF-SITE AT THE APPLICABLE WASTE MANAGEMENT FACILITY. ALL EXPENSES UNDER THIS WORK SHALL BE BORNE BY THE CONTRACTOR
8. ALL BACKFILL MATERIALS SHALL BE FREE FROM FOREIGN MATERIALS SUCH AS REFUSE, CINDERS, WOOD, VEGETABLES OR ORGANIC MATTER, BOULDERS, ROCKS, STONES, OR ANY OTHER MATERIAL, WHICH IN THE OPINION OF THE ENGINEER, SHOULD NOT BE USED FOR BACKFILLING. NO FROZEN MATERIALS SHALL BE USED. BACKFILLING SHALL NOT BE CONDUCTED WHERE MATERIAL IN THE TRENCH IS FROZEN. BACKFILL TO BE APPROVED NATIVE MATERIAL COMPACTED TO 98% SPMDD.
9. THE LOCATION OF EXISTING UTILITIES, AS SHOWN ON THE DESIGN DRAWINGS, ARE APPROXIMATE ONLY AND MAY NOT BE FULLY ACCURATE OR COMPLETE. THE CONTRACTOR SHALL EXPOSE ALL TIE-IN LOCATIONS AND POTENTIAL POINTS OF CONFLICT AND CONFIRM DESIGN ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION. THE CONTRACTOR SHALL ASSUME ALL COSTS AND EXPENSES THAT MAY ARISE FROM DAMAGES AND REPAIR TO SUCH UTILITIES.
10. CONTRACTOR SHALL REINSTATE ALL PRIVATE AND MUNICIPAL PROPERTIES DISTURBED DURING CONSTRUCTION TO EXISTING CONDITIONS OR BETTER.
11. FOR ANY MATERIAL SUBSTITUTION OR CHANGE TO THE DESIGN, THE CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION
12. THE LOCATION OF THE SURVEY CONTROL MONUMENTS SHALL BE PROVIDED BY THE ENGINEER. ALL SURVEY MONUMENTS, BENCHMARKS, AND LEGAL PINS MUST BE PROTECTED AND ANY DAMAGE CAUSED BY NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
13. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.C. MANUAL OF "UNIFORM TRAFFIC CONTROL DEVICES"

PAVEMENT STRUCTURE

1. PAVEMENT STRUCTURE TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT 2631793 PREPARED BY CAMBIUM DATED JULY 31, 2026.

   THICKNESS OF THE PAVEMENT STRUCTURE WILL BE AS FOLLOWS:

   LIGHT DUTY

-HL3 SURFACE COURSE	40mm
-HL8 BINDER COURSE	50mm
-GRANULAR A BASE	150mm
-GRANULAR B SUBBASE	300mm

2. SIDEWALKS ARE TO BE CONSTRUCTED AS PER OPSD 310.010. CONCRETE TESTING AND MATERIAL SPECIFICATION SHALL CONFORM TO OPSS 1350 STANDARDS.

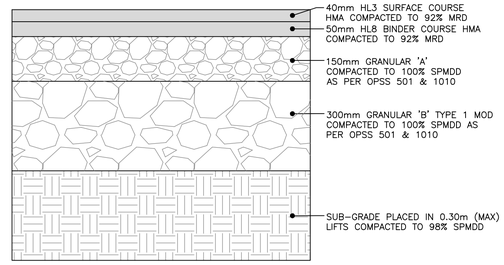
   SIDEWALKS WILL BE AS FOLLOWED

- CONCRETE	125mm
- GRANULAR A BASE	100mm

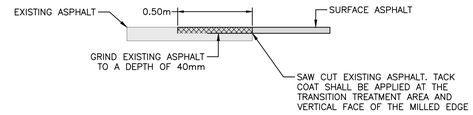
3. COMPACTION FOR PAVEMENT (SURFACE AND BINDER), GRANULAR BASE (GRAN 'A' & 'B') SHALL MEET MINIMUM STANDARD PROCTORED MAXIMUM DRY DENSITY ("SPMDD") COMPACTION AS PER THE DETAIL ON THIS SHEET.
4. GRANULAR MATERIALS SHALL BE IN CONFORMANCE WITH THE FOLLOWING OPSS STANDARDS:
   1001 AGGREGATES, GENERAL
   1002 AGGREGATES, CONCRETE
   1004 AGGREGATES, MISCELLANEOUS
   1010 AGGREGATES, BASE, SUBBASE, SELECT SUBGRADE, AND BACKFILL MATERIAL
5. SUBGRADE SHALL BE COMPACTED TO 98% SPMDD WITH MAXIMUM LIFTS THICKNESS OF 300mm, PROOF-ROLLED AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING THE GRANULAR B SUBBASE.
6. ALL IMPORTED BACKFILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED IN MAXIMUM LIFTS THICKNESS OF 300mm.

EROSION AND SEDIMENT CONTROL:

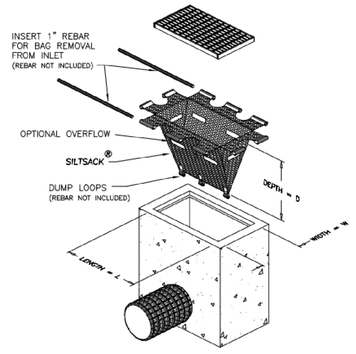
1. HEAVY DUTY SILT FENCE SHALL BE INSTALLED AS PER OPSD 219.131 AND MAINTAINED REGULARLY.
2. TEMPORARY ROCK FLOW CHECK DAMS SHALL BE INSTALLED AS PER OPSD 219.211 AND MAINTAINED REGULARLY.
3. ALL DISTURBED SURFACES SHALL BE HAND-SEEDED AS PER OPSS PROV. 803.10.02 TABLE 3 &5 AS SOON AS FINAL GRADING HAS BEEN COMPLETED.
4. MUD MAT TO BE INSTALLED AT SITE ENTRANCE AND MAINTAINED REGULARLY.



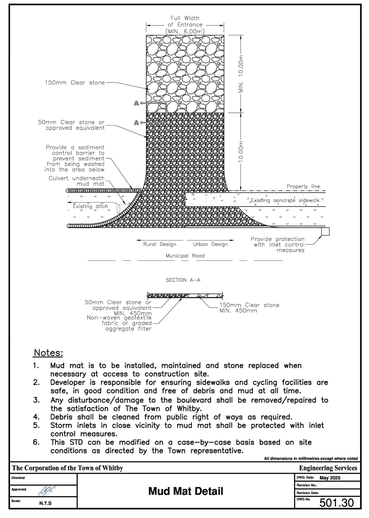
DETAIL 01 - PAVEMENT STRUCTURE



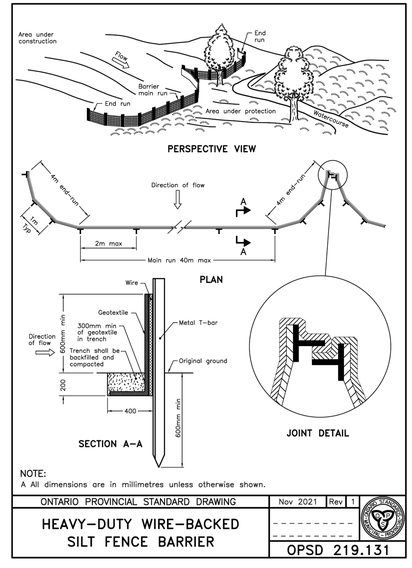
DETAIL 02 - LAP JOINT



DETAIL 03: CATCH BASIN SILT SACK
(OR APPROVED EQUIVALENT)



DETAIL 04 - MUD MAT



DETAIL 05 - HEAVY-DUTY
WIRE-BACKED SILT FENCE BARRIER

LEGEND

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- EX. SURVEY BARS
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PROJECT BENCHMARKS

BM1 - ELEV: 108.04m
MAG IN ASPHALT, LOCATION AS SHOWN ON THIS PLAN.

NO.	DATE (Y/M/D)	REVISION	BY
2.	26/10/19	ISSUED FOR SPA#2	P.Q
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LICENSED PROFESSIONAL ENGINEER
P.C. QUINN
100528152
2026/10/19
PROVINCE OF ONTARIO

DURHAM CATHOLIC DISTRICT SCHOOL BOARD
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL
EIGHT CLASSROOM ADDITION
WHITBY, ONTARIO

GENERAL NOTES AND DETAILS

DRAWING No.
C003

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GENERAL

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF ALL RELEVANT CODES AND STANDARDS.
2. CONFORM TO OWNER'S SAFETY REQUIREMENTS IN CONJUNCTION WITH THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT/REGULATIONS, LATEST EDITION.
3. SITE VERIFY ALL DIMENSIONS AND LEVELS.
4. KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
5. ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CONSULTANTS DRAWINGS.

FOUNDATIONS

1. ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL APPROVED BY THE GEOTECHNICAL CONSULTANTS. REPORT ANY DOUBTFUL BEARING CONDITIONS TO THE STRUCTURAL ENGINEER BEFORE PLACING FOOTINGS. REFER TO SOILS REPORT FOR EXCAVATION, BACKFILLING AND DEWATERING PROCEDURES.
2. SEE SOIL REPORT PREPARED BY: CAMBIUM , REF #2631793 DATED JULY 31, 2026. BEARING CAPACITY FOR SERVICEABILITY OF 75 kPa (SLS).
3. FROST COVER: BOTTOM OF FOUNDATION WALL AND GRADE BEAMS TO HAVE A MINIMUM 1200(4'-0") COVER TO FINISHED EXTERIOR GRADE FOR FROST PROTECTION UNLESS NOTED.
4. MATERIALS FOR BACKFILL SHALL BE GRAN 'A' AND GRAN 'B' CONFORMING TO OPSS STANDARDS COMPACTED TO 98% STANDARD PROCTOR MAX. DRY DENSITY.
5. ALL PIERS AND FOOTINGS UNDER COLUMNS TO BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE ON THE PLAN.

CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF CSA-A23.1-14/CSA-23.2-14 CONCTRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION/METHODS OF TEST METHODS AND STANDARD PRACTICE FOR CONCRETE.

LOCATION	DESIGN STRENGTH (28 DAYS)	SLUMP	EXPOSURE CLASS
EXTERIOR FOOTINGS/ FOUNDATION WALLS AND PIERS	25 MPa	80± 30	F-2
INTERIOR FOOTINGS/FOUNDATION WALLS, PIERS & GRADE BEAMS	25 MPa	80± 30	N
SLAB ON GRADE	25 MPa	80± 30	N
ALL OTHER INTERIOR CONCRETE	25 MPa	80± 30	N
ALL EXTERIOR REINFORCED CONCRETE	35 MPa U.N.O.	80± 30	C-1
EXTERIOR UN-REINFORCED CONCRETE (CURBS & CONCRETE WALKWAYS)	32 MPa U.N.O.	80± 30	C-2

2. STRUCTURAL GROUT SHALL BE NON-SHRINK, NON-METALLIC M-BED STANDARD PREMIX BY SIKA OR APPROVED EQUAL.
3. NO ADDITIONAL WATER SHALL BE ADDED AT THE JOB SITE. CONCRETE WHICH HAS BEEN WATERED OR DOES NOT MEET SPECIFICATIONS SHALL BE REJECTED.
4. ALL EPOXY ADHESIVE SHALL BE HIT-HY 200 AT CONCRETE AND HY-70 AT MASONRY OR APPROVED EQUIVALENT.
5. DURING WINTER WEATHER BELOW 5°C PROVIDE TEMPORARY HEATING OF CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A23.1, LATEST EDITION.
6. WHEN PIPES, CONDUITS, OR SLEEVES ARE REQUIRED TO PENETRATE CONCRETE ASSEMBLIES, THE FOLLOWING SHALL BE OBSERVED:
   - SPACING OF SUCH ITEMS SHALL BE 3x DIAMETER C/C.
   - CONCRETE SHALL NOT BE PENETRATED WITHIN 600mm OF CONCENTRATED LOADS.
   - ANY PENETRATIONS SHALL BE A MINIMUM OF 600mm FROM ALL EDGES, SUCH AS ENDS AND TOPS OF WALLS.
   - FOR ANY PENETRATIONS GREATER THAN 300mm, CONSULT THE ENGINEER FOR REVIEW AND DETERMINATION OF EXTRA REINFORCEMENT REQUIREMENTS.

SLAB ON GRADE

1. CAST SLAB ON GRADE ON 200mm MIN. COMPACT GRAN. "A" ON COMPACT GRAN. "B" AND COMPACTED SUB-GRADE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF COMPOSITION OF MATERIALS BELOW GRADE (INSULATION AND VAPOUR BARRIER).
3. SAWCUT WITHIN 6 TO 18 HOURS. REFER TO THE DRAWINGS FOR SAWCUT REQUIREMENTS.
4. DO NOT CAST SLAB MORE THAN 30 METERS IN LENGTH IN EITHER DIRECTION. PLACE SLAB IN STRIP PATTERN. KEY CONSTRUCTION JOINTS AS DETAILED.
5. MAINTAIN MINIMUM SPECIFIED THICKNESS AT ALL DEPRESSIONS AND CHANGES IN ELEVATIONS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT AND LOCATION OF ALL FINISHES, DEPRESSIONS AND SLOPES.
7. WELDED WIRE MESH REINFORCING IN SLABS ON GRADE MUST BE PROPERLY CHAIRED. LIFTING OF THE WIRE MESH DURING POURS WILL NOT BE ACCEPTED.

STEEL DECK

1. STEEL SHEET TO CSSB1-10M GRADE A STRUCTURAL QUALITY (fy=230 MPa).
2. SPAN DECK OVER AT LEAST 3 SPANS AND PROVIDE INCREASED MATERIAL THICKNESS TO COMPENSATE FOR DISCONTINUITY WHERE LESS THAN 3 SPANS OCCUR.
3. DO NOT SUPPORT CEILING, LIGHTS, DUCTS OR PIPE FROM STEEL DECK.
4. PROVIDE CELL CLOSURES AT SUPPORTS UNLESS NOTED OTHERWISE.
5. PROVIDE CLEAN FORMED EDGE AT ENDS OF COMPOSITE SLAB OPENINGS.
6. GROUT UNDERSIDE OF STEEL FLUTES SOLID WHERE FLOOR DECK SUPPORTS MASONRY WALLS.
7. STEEL DECK SHALL BE SPOT WELDED TO STRUCTURAL STEEL BY 19mm DIA. FUSION WELDS SPACED AT 300mm CENTRE, WITH A WELD ON EACH SIDE OF A SIDE LAPPED JOINT UNLESS OTHERWISE NOTED. SHEET TO BE BUTTON PUNCHED AT 610mm (24") c/c.
8. STEEL DECK SHALL HAVE ADEQUATE CAPACITY TO SUPPORT LOADS GIVEN ON DRAWINGS.
9. STEEL DECK SUB-CONTRACTOR SHALL REINFORCE DECK FOR ROOF OPENINGS 150mm (6") TO 300mm (12") SQUARE ON SITE.

CONCRETE REINFORCEMENT

1. THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

LOCATION	CLEAR COVER
FOOTINGS	75mm UNDERSIDE 50mm TOP AND ENDS
WALLS	50mm AGAINST EARTH (20M BAR OR GREATER) 40mm AGAINST EARTH (15M BAR) 40mm AGAINST FORM (20M BAR OR GREATER) 25mm AGAINST FORM (15M BAR)
SLABS	25mm TOP BARS 25mm BOTTOM BARS
COLUMNS/PIERS	40mm TO TIES
SURFACE IN CONTACT WITH GROUND	75mm

2. DETAIL REINFORCING STEEL IN ACCORDANCE WITH "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" LATEST EDITION.
3. REINFORCING BAR SPLICES FOR DEFORMED BARS:
   COLUMNS – COMPRESSION LAP UNLESS NOTED
   WALLS – CLASS 'B' TENSION SPLICE UNLESS NOTED
   ALL OTHERS – CLASS 'B' TENSION LAP UNLESS NOTED
4. ALL REINFORCING STEEL SHALL BE DEFORMED HARD GRADE BILLET STEEL CONFORMING TO CSA G30.18 GRADE 400.
5. WELDED STEEL WIRE FABRIC, PLAIN TYPE CONFORMING TO ASTM A1064/A1064M-17 IN FLAT SHEETS NOT ROLLED.
6. ALL CONCRETE REINFORCEMENT MUST BE PROPERLY CHAIRED WITH APPROVED BAR SUPPORTS. MANUAL LIFTING OF BARS WILL NOT BE ACCEPTED.
7. PROVIDE CHAIRS, SPACER BARS, SUPPORT BARS AND OTHER ACCESSORIES TO SUPPORT REINFORCING IN ACCORDANCE WITH THE LATEST EDITIONS OF CSA A23.1 AND CSA A23.3 CHAIRS TO BE PLASTIC, PLASTIC TIPPED OR CONCRETE. ALL TIE WIRE, CHAIRS AND BAR SUPPORTS USED FOR COATED REINFORCING SHALL BE NON-METALLIC OR PROTECTED WITH ACCEPTABLE COATING.
8. CHAIRS SHALL BE SPACED AT 1200mm O.C. MAXIMUM.
9. MANUAL LIFTING OF SLAB REINFORCEMENT WILL NOT BE ACCEPTED.

STEEL JOISTS

1. STEEL JOIST AND BRIDGING TO BE IN ACCORDANCE WITH CAN/CSA S16.1 LATEST EDITION AND CSA-S136 LATEST EDITION WITH BRIDGING TO SUIT JOISTS. AT EDGE, EXTEND BOTTOM CHORD BRIDGING TO TOP FLANGE OF EDGE BEAM. WHERE NOTED, PROVIDE BOTTOM CHORD EXTENSIONS TO BOTTOM FLANGE OF SUPPORTING CANTILEVERED BEAMS
2. JOIST DESIGNER SHALL BE RESPONSIBLE FOR CONNECTIONS BETWEEN BRIDGING AND SUPPORTING AND/OR MASONRY STRUCTURE. BRIDGING SHALL NOT TRANSMIT OUT-OF-PLANE FORCES TO LATERALLY UNSUPPORTED BEAMS/COLUMNS OR TO WALLS. BRIDGING CONNECTIONS TO HOLLOW CONCRETE BLOCK SHALL USE "HILTI HIT H420 SLEEVE" ANCHORS (MIN 2 PER CONNECTION OR APPROVED EQUIVALENT)
3. MECHANICAL LOADING ALLOWANCES SHOWN ON THE DRAWING ARE FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE LOADS USED BY THE JOIST DESIGNER ACCURATELY REFLECT THE WEIGHTS OF PIPES, DUCTS AND OTHER EQUIPMENT BEING INSTALLED
4. CAMBER JOISTS FOR DEAD LOAD
5. LIMIT LIVE LOAD DEFLECTION OF JOISTS TO L/360 UNLESS NOTED. WHERE DOUBLE JOISTS ARE SHOWN ON PLAN, AT SKYLIGHT OPENINGS OR EXPANSION JOINTS, LIMIT DEFLECTION OF FLOOR JOISTS SUPPORTING PARTITIONS TO L/480 UNDER LIVE LOAD PLUS PARTITION LOADS UNLESS NOTED.
6. WHERE CONCENTRATED LOADS DO NOT INTERSECT OWSJ PANEL POINTS, PROVIDE ADDITIONAL JOIST WEB DIAGONAL BETWEEN CONCENTRATED LOAD AND NEAREST PANEL POINT ON OPPOSITE CHORD (BY OWSJ DESIGNER)
7. HANGERS FOR SUSPENSION OF DUCTS, PIPES OR CEILING SHALL BE CONNECTED TO JOIST PANEL POINT AT TOP CHORD ONLY. PIPES 50mm O.D. OR LARGER SHALL BE HUNG FROM TOP CHORD PANEL AT TOP CHORD POINTS. USE APPROVED CLAMPING DEVICE OR U-BOLT TYPE CONNECTION ONLY. NO WELDING, CUTTING OR DRILLING IS PERMITTED ON OWSJ OR BRIDGING.
8. JOIST DESIGNER SHALL BE RESPONSIBLE FOR SUPPLY AND INSTALLATION OF WALL BEARING PLATE AS NOTED ON PLANS

SHOP DRAWINGS AND SUBMITTALS

GENERAL

1. REPRODUCTIONS OF THE STRUCTURAL DRAWINGS SHALL NOT BE ACCEPTED AS SHOP DRAWINGS. "PROFESSIONAL ENGINEER" IN THE FOLLOWING PARAGRAPHS SHALL BE REGISTERED AND LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO.
2. REVIEW OF DRAWINGS APPLIES TO GENERAL ARRANGEMENT ONLY FOR THE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THIS REVIEW DOES NOT IMPLY APPROVAL OF DETAIL DESIGN OR QUANTITIES IN SUBMITTED DRAWINGS, NOR DOES IT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR MAKING THE WORK COMPLETE, ACCURATE AND IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS. ALLOW 10 WORKING DAYS FOR SHOP DRAWING REVIEW.
3. DO NOT FABRICATE MATERIALS BASED ON REJECTED OR DISAPPROVED SHOP DRAWINGS.
4. SHOP DRAWING SUBMITTALS SHALL ALSO INCLUDE HELICAL PILES, CLADDING CONNECTION DETAILS, STAIR DETAILS, SAFETY GUARDS AND ANY ELEMENTS DESIGNED BY THE CONTRACTOR'S FORCES WHICH SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH N.B.C. SECTIONS 2.3.4.4 AND 2.3.4.5 LATEST EDITIONS.

REINFORCED CONCRETE

1. SUBMIT FOR REVIEW OF REINFORCEMENT PLACING DRAWINGS AND BARLISTS FOR EVERY PORTION OF THE STRUCTURE. SHOW WALLS IN FULL ELEVATION. SHOW SLABS WITH REINFORCING STEEL CALLED UP DIRECTLY ON PLAN.
2. PROVIDE DETAILS OF DESIGN AND CONSTRUCTION OF FORMS AND FALSEWORK, SHORING AND RESHORING AND ANY SPECIAL REQUIREMENTS FOR STRIPPING OF FORMWORK. ALL SUCH DESIGN SHEETS SHALL BE PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER.
3. SUBMIT FOR REVIEW ALL PROPOSED CONCRETE MIX DESIGNS. SUBMIT AT LEAST 15 WORKING DAYS PRIOR TO START OF WORK.
4. SUBMIT FOR REVIEW DRAWINGS OF ALL PROPOSED CONSTRUCTION JOINTS LOCATIONS, AND LAYOUT DRAWINGS OF CONCRETE ISOLATION AND HOUSEKEEPING PADS.
5. REGULARLY SUBMIT REPORTS OF ALL CONCRETE TESTING AS SOON AFTER TESTING IS PERFORMED AS POSSIBLE.

MASONRY

1. SUBMIT EVIDENCE OF MORTAR AND GROUT STRENGTH.

STRUCTURAL STEEL, JOISTS AND STEEL DECK

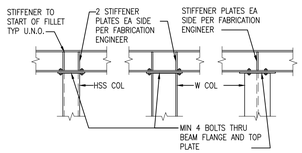
1. SUBMIT WITH SHOP DRAWINGS: DECKING PLAN, PROFILE, DIMENSIONS, CORE THICKNESS, CONNECTIONS TO SUPPORTS, REQUIRED BEARINGS, CLOSURES AND ACCESSORIES.
2. SUBMIT FOR REVIEW OF ERECTION DRAWINGS FOR ALL STRUCTURAL STEEL ELEMENTS. ALL MOMENT CONNECTIONS SHALL BE DESIGNED AND THE DRAWINGS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER.
3. SHOP DRAWING SUBMITTALS SHALL INCLUDE STEEL BEAM, COLUMN CONNECTIONS AND STEEL JOIST DETAILS ALONG WITH DESIGN CALCULATIONS. JOIST CALCULATIONS SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH N.B.C. SECTIONS 2.3.4.4 AND 2.3.4.5.
4. JOIST FABRICATOR TO SUBMIT LAYOUT DRAWINGS FOR JOISTS TO ALLOW COORDINATION OF RELATED INSERTS BY GENERAL CONTRACTOR. 5. SUBMIT MILL TEST CERTIFICATES FOR EACH DIFFERENT STRUCTURAL STEEL MEMBER SIZE AND SHAPE PRIOR TO ERECTION.

RECORD DRAWINGS

1. GENERAL CONTRACTOR SHALL MAINTAIN TWO SETS OF RECORD DRAWINGS WHICH SHOW AS-BUILT DETAILS OF ALL ASPECTS OF THE STRUCTURE, FOR REVIEW DURING CONSTRUCTION AND FOR SUBMISSION AT THE END OF THE PROJECT.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL HSS AND W SECTIONS TO BE G40.21M-350W CLASS C. ALL OTHERS TO BE G40.21M-300W.
2. DESIGN FORCES INDICATED ON DRAWINGS FOR STRUCTURAL STEEL WORK ARE UN-FACTORED FORCES UNLESS NOTED OTHERWISE.
3. ALL CONNECTIONS TO BE DESIGNED BY FABRICATOR UNLESS NOTED OTHERWISE. ALL BEAM CONNECTIONS TO BE STANDARD SHEAR CONNECTIONS IN COMPLIANCE WITH CISC, UNLESS NOTED OTHERWISE.
4. PROVIDE SHOP DRAWINGS OF COMPONENTS AND CONNECTIONS DESIGNED BY THE FABRICATOR'S ENGINEER. DRAWINGS SHALL BE SIGNED AND SEALED BY THAT ENGINEER.
5. FABRICATOR'S ENGINEER MUST BE LICENSED IN THE PROVINCE OF ONTARIO.
6. ALL ERECTION BOLTS SHALL BE ASTM GRADE A325 MINIMUM, AND SHALL BE DESIGNED BY STEEL FABRICATOR'S ENGINEER FOR TRANSFER OF ALL LOADS.
7. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTION PIECE AND DESIGNED AS BEARING CONNECTIONS U.N.O.
8. UNLESS NOTED OTHERWISE, WHERE BEAMS FRAME OVER COLUMNS, PROVIDE FULL HEIGHT, FULL WIDTH STIFFENER PLATES ON EACH SIDE OVER COLUMN AS SHOWN BELOW:



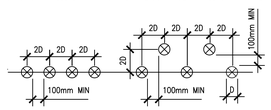
9. FABRICATOR'S ENGINEER SHALL DESIGN TOP PLATES AND THEIR CONNECTIONS TO FULLY TRANSFER VERTICAL AND HORIZONTAL LOADS AS WELL AS MOMENTS WHEN REQUIRED PER CISC STANDARDS.
10. FABRICATION, ERECTION AND WORKMANSHIP SHALL CONFORM TO CSA S16.1.
11. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY A WELDER QUALIFIED UNDER CSA W47.
12. ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP APPLIED COAT OF PRIMER. SPOT PRIME ALL WELDED AREAS.
13. REMOVE PAINT FILM FROM ALL STEEL SURFACES TO BE WELDED. SPOT PRIME AS REQUIRED.
14. ALL WELDED CONNECTIONS SHALL BE WITH CSA W48 SERIES ELECTRODES.
15. PROVIDE DRAINAGE HOLES TO ARCHITECT'S APPROVAL IN ALL EXPOSED EXTERIOR HSS FRAMING.
16. PROVIDE CAP PLATES ON ALL HSS FRAMING MEMBERS UNLESS NOTED OTHERWISE.
17. DO NOT CUT OR CORE ANY OPENINGS IN ANY STRUCTURAL STEEL MEMBERS WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
18. WHERE A STRUCTURAL STEEL SHAPE SHOWN ON THE DRAWINGS IS UNAVAILABLE, A SHAPE OF EQUAL OR GREATER SECTION PROPERTIES AND STRUCTURAL CAPACITY SHALL BE SUBSTITUTED, UPON APPROVAL BY OWNER AND CONSULTANT AT NO EXTRA COST.
19. ALL EXTERIOR EXPOSED STEEL SHALL BE HOT DIP GALVANIZED.

CONDUITS, PIPES AND SLEEVES EMBEDDED IN CONCRETE

SEE ALSO CSA-A23.1 – CLAUSE 13.5

EXCEPT WHEN APPROVED BY THE STRUCTURAL ENGINEER, PIPES, CONDUITS, AND SLEEVES EMBEDDED IN CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING GUIDELINES:

1. GENERAL
   A. NOT WITHSTANDING THE SATISFYING OF THESE GUIDELINES, THE CONDUIT, SLEEVES, PIPES, ETC. SHALL NOT IMPAIR THE STRUCTURAL STRENGTH AND SHALL BE MOVED IF SO DIRECTED BY THE STRUCTURAL ENGINEER.
   B. CENTRELINE SPACING TO BE NOT LESS THAN 3 DIAMETERS – UNLESS NOTED OTHERWISE.
   C. CENTRELINE SPACING BETWEEN PARALLEL CONDUIT AND REINFORCING BARS TO BE 3 DIAMETERS – UNLESS NOTED OTHERWISE.
   D. ADD REINFORCING AT POINTS OF CONGESTION AS DIRECTED BY STRUCTURAL ENGINEER.
2. FOR SLABS – CONDUITS IN THE PLANE OF THE SLAB.
   A. LOCATE BETWEEN TOP AND BOTTOM REINFORCING.
   B. MAXIMUM SIZE IN ONE LAYER TO BE NOT MORE THAN 1/4 CONCRETE THICKNESS.
   C. THREE LAYERS OR MORE CROSSING WILL NOT BE PERMITTED.
3. FOR COLUMNS – ELECTRICAL BOXES, CONDUIT, SLEEVES OR EMBEDDED PIPES ARE NOT ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
4. FOR BEAMS – THE TOTAL MAXIMUM SIZE OF HORIZONTAL CONDUIT PARALLEL TO THE BEAM NOT TO EXCEED 4% OF THE AREA. NO SLEEVES THRU ANY BEAMS OR SLAB BANDS UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
5. FOR SHEAR WALLS – ELECTRICAL BOXES, CONDUIT, SLEEVES OR EMBEDDED PIPES ARE NOT ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
6. FOR NON-SHEAR WALLS – CONDUIT, SLEEVES OR EMBEDDED PIPES:
   - MAX. DIAMETER = 1/4 WALL THICKNESS.
   - NO HORIZONTAL RUNS PERMITTED.
   - VERTICAL RUNS TO HAVE MINIMUM 50mm CONCRETE COVER AND SHALL HAVE A MINIMUM CLEAR SPACING OF 4 DIAMETERS.
7. SPACING OF SLEEVES THROUGH FLAT SLABS TO BE NOT LESS THAN THE FOLLOWING:



GUIDELINES FOR SLEEVES
- SLEEVES IN FLAT SLABS NOT TO BE LOCATED NEXT TO COLUMNS UNLESS APPROVED BY ENGINEER IN WRITING.
- CLEAR DIMENSION FOR SLEEVES TO COLUMNS TO BE 1200mm MIN. UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS.

TEMPORARY WORKS

1. THE CONTRACTOR SHALL DESIGN, PROVIDE, ERECT, MAINTAIN REMOVE AND ASSUME FULL AND SOLE RESPONSIBILITY FOR ALL TEMPORARY WORKS REQUIRED FOR THE SAFE AND COMPLETE EXECUTION OF THE WORKS.
2. IN THE EXECUTION OF THE TEMPORARY WORKS AND FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR ALL LIKELY CONSTRUCTION LOADING AND PROVIDE SUFFICIENT BRACING AND PROPS TO KEEP THE WORKS IN PLUMB AND ALIGNMENT AND FREE FROM EXCESSIVE DEFLECTION.
3. ACCESS OF HEAVY CONSTRUCTION EQUIPMENT AND ACCUMULATION OF CONSTRUCTION MATERIALS ON THE FLOORS ARE NOT PERMITTED, UNLESS SUCH HAVE BEEN CATERED FOR IN THE CONTRACTOR'S TEMPORARY WORK DESIGN TO THE SATISFACTION OF THE ARCHITECT.
4. SUBMIT SHOP DRAWINGS FOR ALL TEMPORARY WORKS FOR REVIEW BEFORE FABRICATION COMMENCES. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.

INSPECTIONS AND TESTING

1. THE FOLLOWING ITEMS SHALL BE INSPECTED OR TESTED BY INDEPENDENT INSPECTION/ TESTING AGENCIES DESIGNATED BY THE CLIENT. MATERIALS AND WORKMANSHIP NOT CONFORMING TO THE SPECIFICATIONS SHALL BE REJECTED BY THE CONTRACTOR. REPORTS AND TEST RESULTS SHALL BE PROMPTLY SUBMITTED TO THE ENGINEER FOR REVIEW. TESTING SHALL INCLUDE BUT NOT BE LIMITED TO:

CONCRETE

1. CONCRETE AND GROUT TESTING IN ACCORDANCE WITH CSA A23.2 LATEST EDITION AND THE SPECIFICATIONS, INCLUDING THE REQUIREMENTS OF SLUMP, AIR AND AGE PRIOR TO BEING USED. CONTRACTOR TO KEEP RECORDS OF POUR DATES, TESTING PERFORMED, CLASS OF CONCRETE USED AND TEST RESULTS FOR ALL ITEMS POURED.
2. TESTING TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE FOR EARLY FORM REMOVAL PURPOSES WITH THE TYPE OF TEST BEING DETERMINED ON THE ADVICE OF THE TESTING AGENCY. REPAIRS NECESSARY TO THE STRUCTURE AS A RESULT OF THESE TESTS SHALL BE MADE BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
3. APPROVAL OF CONCRETE AND MORTAR MIX DESIGNS.
4. TESTING AS REQUIRED AND SPECIFIED BY THE ENGINEER TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE WHICH FAILS TO MEET THE SPECIFIED REQUIREMENTS OR WHICH, DUE TO APPEARANCE, DAMAGE OR DEFECTS MAY BE DEEMED REJECTABLE. CORES SHALL BE ACQUIRED AND TESTED BY THE DESIGNATED TESTING AGENCY BUT ANY REPAIRS NECESSARY TO THE STRUCTURE AS A RESULT OF THESE TESTS SHALL BE PERFORMED AT NO COST TO THE OWNER.

ENGINEERED MASONRY TEST

1. TESTS TO VERIFY STRENGTH OF GROUT AND MORTAR.

STRUCTURAL STEEL

1. VISUAL INSPECTION OF ALL WELDS, TORQUE TESTING OF BOLTED CONNECTIONS AND CHECK ON BEARING, PLUMBNESS AND ALIGNMENT OF STEEL STRUCTURES.
2. NON-DESTRUCTIVE TESTING TO VERIFY THE QUALITY OF WELDING, WHERE DEEMED QUESTIONABLE BY VISIBLE DEFECTS OR WHERE REQUIRED BY THE ENGINEER.

REINFORCING STEEL

1. CONTRACTOR SHALL ADVISE BARRY BRYAN ASSOCIATES OF REQUIRED REINFORCING STEEL INSPECTIONS AT LEAST 24 HOURS PRIOR TO CLOSING OF COLUMN OR WALL FORMS AND 24 HOURS PRIOR TO PLACING OF CONCRETE IN SLABS, FOOTINGS, ETC.

DEMOLITION NOTES

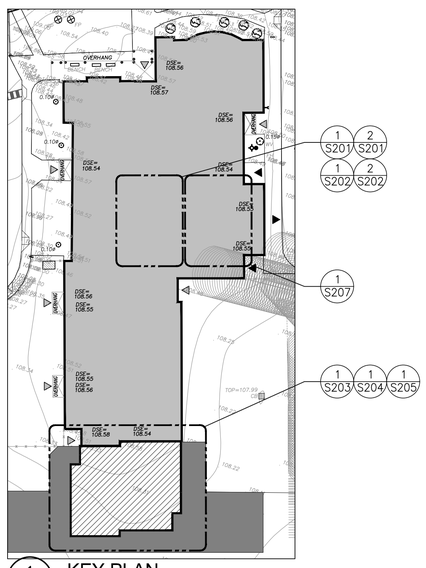
1. PROVIDE PROTECTION AS REQUIRED TO PREVENT DAMAGE TO THE EXISTING STRUCTURE AND/OR ADJACENT EQUIPMENT. PROTECT ALL EXISTING FINISHES, FRAMES AND PROPERTY.
2. SAW CUT, REMOVE AND DISPOSE OF EXISTING DEMOLISHED MATERIALS OFF-SITE, AS REQUIRED TO COMPLETE THE WORK. REMOVAL OF ALL ACM IS BY OTHERS.
3. KEEP THE WORK AND STAGING AREAS CLEAN AND ORDERLY AT ALL TIMES AND FREE FROM RUBBLE AND DEBRIS.
4. NOTIFY CONSULTANT OF ANY LOAD BEARING MEMBERS OR ASSEMBLIES DISCOVERED OR IDENTIFIED DURING WORK WITH EXCESSIVE DETERIORATION BEYOND WHAT IS NOT INDICATED ON THE DRAWINGS. DO NOT PROCEED WITH REMOVAL WITHOUT PRIOR REVIEW BY THE CONSULTING STRUCTURAL ENGINEER.
5. ALL BUILDING MATERIALS TO BE REMOVED FROM THE BUILDING SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFIED OTHERWISE AND SHALL BE REMOVED FROM THE SITE.
6. COVER ALL LOADED TRUCKS LEAVING THE DEMOLITION SITE.
7. CARRY OUT SAFETY MEASURES AS PER THE CONSTRUCTION SAFETY ASSOCIATION OF ONTARIO ACT AND REGULATIONS FOR DEMOLITION.
8. THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY MANUAL APPLIES TO THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE TO PERFORM ALL WORK IN ACCORDANCE WITH O.H.S.A..
9. CONTRACTOR SHALL KEEP CLEAR AND NOT INHIBIT THE USE OF BUILDING FIRE ROUTE AND ALL HYDRANTS DURING THE ENTIRE DEMOLITION WORK.
10. REPORT ANY DOUBTFUL UNFORESEEN AND/OR UNEXPECTED SITE CONDITIONS TO THE ENGINEER PRIOR TO PROCEEDING.

STRUCTURAL DRAWING LIST

S101 GENERAL NOTES & O.B.C. MATRIX
S102 GENERAL NOTES & SCHEDULES
S103 TYPICAL DETAILS
S104 TYPICAL DETAILS
S201 PART FOUNDATION PLANS
S202 PART SECOND FLOOR FRAMING PLANS
S203 FOUNDATION PLAN
S204 SECOND FLOOR FRAMING PLAN
S205 ROOF FRAMING PLAN
S206 ROOF SCREEN FRAMING PLAN
S207 EXISTING GYMNASIUM ROOF FRAMING PLAN
S501 SECTIONS & DETAILS
S502 SECTIONS & DETAILS
S503 SECTIONS & DETAILS

STRUCTURAL DESIGN DATA MATRIX

NO	ITEM	DESCRIPTION				
1	STRUCTURAL DESIGN	TWO STOREY BUILDING ADDITION CONSISTING OF STEEL FRAMING SUPPORTED BY MASONRY BLOCK WALLS				
2	DESIGN CODE	2024 OBC PART 4 (LATEST EDITION)				
3	SNOW/RAIN LOADS					
	A) IMPORTANCE (Is)	1.15 ULS, 0.9 SLS				
	B) GROUND SNOW (Ss $\frac{kPa}{m^2}$)	1.2 kPa				
	C) GROUND RAIN (Sr $\frac{kPa}{m^2}$)	0.4 kPa				
4	WIND LOAD					
	A) IMPORT (Iw)	1.15 ULS, 0.75 SLS	TERRAIN: ROUGH			
	B) WIND PRESSURE (q $\frac{kPa}{m^2}$)	0.48 kPa	INTERNAL PRESSURE: CAT. 2			
	N-S DIRECTION	BASE SHEAR =	203 kN			
	E-W DIRECTION	BASE SHEAR =	175 kN			
5	SEISMIC LOAD					
	A) IMPORTANCE (Ie)	1.3 ULS				
	B) SEISMIC DATA	Sa (0.2)	Sa (0.5)	Sa (1.0)	Sa (2.0)	Sa (5.0)
		0.3050	0.1640	0.0863	0.0400	0.0105
	C) SITE DATA	SITE CLASS		SEISMIC CATEGORY		
		C		SC3		
		IeS(0.2) = 0.39				
	D) METHOD OF ANALYSIS	EQUIVALENT STATIC FORCE PROCEDURE				
	E) EQUIVALENT STATIC FORCE PROCEDURE	Ta =		Mv =	J =	
		0.233S		1.0	1.0	
	N-S DIRECTION	TYPE OF SFRS		Rd =	Ro =	
		CONVENTIONAL MASONRY SHEAR WALLS		1.5	1.5	
		BASE SHEAR =		645 kN		
		OVERTURNING MOMENT =		3670 kN-m		
	E-W DIRECTION	TYPE OF SFRS		Rd =	Ro =	
		CONVENTIONAL MASONRY SHEAR WALLS		1.5	1.5	
		BASE SHEAR =		645 kN		
		OVERTURNING MOMENT =		3670 kN-m		
6	FOUNDATION					
	DESCRIPTION	CONVENTIONAL CONCRETE FOUNDATIONS AND GRADE BEAMS ON HELICAL PILES				
	SUB-GRADE	NATIVE				
	BEARING (ULS)	125 kPa				
	BEARING (SLS)	75 kPa				
	SOIL REPORT BY:	GEOTECHNICAL INVESTIGATION PREPARED BY CAMBIUM, REF#: 2631793.0 DATED JULY 31, 2026.				



1 / S101 KEY PLAN
N.T.S.

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

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DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.

DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR 30% REVIEW	JUN.

ABBREVIATIONS

▶	STEEL MOMENT CONNECTION
⌓	DISTANCE TO TOP OF BEAM OR FOOTING FROM DATUM ELEVATION OF FLOOR OR ROOF
▭	DISTANCE TO TOP OF SLAB FROM FLOOR ELEVATION
#	DENOTES COMPOSITE STEEL BEAM
→	DIRECTION OF SLOPE
⇪	SHORING LOAD IN kN

AB	ANCHOR BOLT
Af	FACTORED AXIAL LOAD (kN).
+	INDICATES TENSION.
–	INDICATES COMPRESSION
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ARCH	ARCHITECTURAL
B	BOTTOM
CAMx	CAMBER IN 'x' mm
CB	COLUMN BRACE
C/C	CENTRE TO CENTRE
Cf	FACTORED COMPRESSION (kN)
CJ	CONTROL JOINT
CONN	CONNECTION
CONT	CONTINUOUS
CL	CENTRELINE
C/W	COMPLETE WITH (INCLUDING)
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DB	DIAGONAL BRACE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD (kN/m2)
DN	DOWN
DO	DITTO
DWG	DRAWING
DWL	DOWEL
EA	EACH
EC	EPOXY COATED REINFORCEMENT
EE	EACH END
EF	EACH FACE
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
ES	EACH SIDE
EW	EACH WAY
EXIST	EXISTING
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FAR FACE
FIN	FINISHED
FL	FLOOR
FTG	FOOTING
GALV	GALVANIZED
GND	GROUND
HB	HIGH BEAM
HC	HOLLOW CORE CONCRETE SLAB
HDMR	HEAVY DUTY MASONRY REINFORCEMENT
HK	HOOKED REINFORCEMENT
H/HORIZ	HORIZONTAL
HSC	HORIZONTAL SLOTTED CONNECTION
HSS	HOLLOW STRUCTURAL SECTION
H&V	HORIZONTAL AND VERTICAL
IF	INSIDE FACE
INCL	INCLUDING
INT	INTERIOR
L	STEEL ANGLE
LB	LOW BEAM
LG	LONG
LL	LIVE LOAD (kN/m2)
LL	LOWER LAYER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAX	MAXIMUM
MCx	MOMENT CONNECTION TO HAVE FACTORED MOMENT CAPACITY IN 'x' kNm
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
Mf	FACTORED MOMENT (kN–m)
Mtf	FACTORED TORSION (kN–m)
NIC	NOT IN CONTRACT
NF	NEAR FACE
NTS	NOT TO SCALE
OF	OUTSIDE FACE
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
P	POINT LOAD
PC	PRECAST CONCRETE
PL	PLATE
PROJ	PROJECTION
RD	ROOF DRAIN
REINF	REINFORCING
REV	REVISION
Rf	FACTORED VERTICAL REACTION (kN)
RO	ROUGH OPENING
SDL	SUPERIMPOSED DL (EXCLUDING SELF WEIGHT) (kN/m2)
SDMR	STANDARD DUTY MASONRY REINFORCEMENT
SDF	STEP DOWN FOOTING
SIM	SIMILAR
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
T	TOP
Tf	FACTORED TENSION FORCE
THK	THICKNESS
TJ	TIE JOIST
T.O.	TOP OF
TOS	TOP OF STEEL
TYP	TYPICAL
UL	UPPER LAYER
UNO	UNLESS NOTED OTHERWISE
U/S	UNDERSIDE
VB	VERTICAL BRACE
V	VERTICAL
Vf	FACTORED SHEAR FORCE
VSC	VERTICAL SLOTTED CONNECTION
WF	FACTORED WEIGHT
WPL	WALL PLATE
WWF	WELDED WIDE FLANGE
WWM	WELDED WIRE MESH

MASONRY

1. DO MASONRY WORK IN ACCORDANCE WITH A370 AND A371 EXCEPT WHERE SPECIFIED OTHERWISE.
2. TYPE 'S' MORTAR SHALL BE USED AT ALL CONCRETE BLOCK MASONRY. TYPE 'N. MORTAR SHALL BE USED AT CLAY BRICK. MINIMUM STRENGTH 12.4 MPa AT 28 DAYS.
3. GROUT (PEA GRAVEL) AT BOND BEAMS AND GROUTED HOLLOW BLOCKS TO BE A MINIMUM OF 20MPa COMPRESSIVE STRENGTH AT 28 DAYS. IN ACCORDANCE WITH CAN3–A23.1
4. PROVIDE LATERAL RESTRAINT AT TOP OF NON–LOAD BEARING BLOCK PARTITIONS AS INDICATED ON TYPICAL DETAILS.
5. PROVIDE VERTICAL WALL REINFORCING AT WALL CENTRELINE, FULL HEIGHT OF LIFT, WITH CLASS B LAP, AT THE LOCATIONS INDICATED ON PLAN AND WALL SCHEDULE.
6. LOAD BEARING MASONRY WALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. FOR ADDITIONAL REQUIREMENTS SEE MASONRY SPECIFICATION AND STRUCTURAL DRAWINGS.
7. MASONRY WORK SHALL CONFORM TO CSA–S304 AND ITS REFERENCED DOCUMENTS, INCLUDING:
   A. CONCRETE BLOCK TO CSA–A165.1, TYPE H15/A & H20/A, SEE ARCH. DWGS. FOR FIREWALLS REQUIREMENTS UNLESS NOTED OTHERWISE. (BASED ON NET AREA) – H 15/C FOR FIREWALLS.
   B. MORTAR TO CAN/CSA–A179–14, TYPE 'S' FOR ALL WALLS.
   C. GROUT TO CAN/CSA–A179–14.
   D. MASONRY WIRE REINFORCING TO CSA–A371 AND ASTM A951/A951M–26.
   E. REINFORCING BARS TO CSA–G30.18:21 – 400 MPa.
   F. WELDED REINFORCING BARS TO CSA–G30.18:21 – 400 MPa.
   G. CONNECTION TO CSA A370:14(R2023).
   H. CONSTRUCTION PRACTICE TO CSA A371:14(R2024).
10. STRUCTURAL DRAWINGS INDICATE ONLY LOAD–BEARING WALLS. DESIGN IS BASED ON ENGINEERING ANALYSIS ACCORDING TO CSA S304–24. FIELD CONTROL AND TESTING SHALL COMPLY WITH REQUIREMENTS OF CLAUSE 5 OF CSA S304–24.
11. SUBMIT EVIDENCE OF MORTAR AND GROUT STRENGTH. CONCRETE BLOCKS GROUT & MORTAR SHALL BE TESTED IN ACCORDANCE WITH CSA A23.1:24 & CSA A23.2:24.
12. PROVIDE TEMPORARY BRACING OF MASONRY WORK UNTIL PERMANENT LATERAL SUPPORT IS IN PLACE
13. PROVIDE LINTELS OVER ALL OPENINGS IN WALLS. SEE LINTEL SCHEDULE, UNLESS NOTED OTHERWISE ON PLAN, CONNECT BACK TO BACK ANGLES TOGETHER AT 500mm (20") c/c MAXIMUM. PROVIDE 150mm MIN. END BEARING FOR LINTELS, UNLESS NOTED OTHERWISE.
14. PROVIDE BOND BEAM WITH 1–15M CONTINUOUS AT TOP COURSE OF WALL UNDER BEAM OR JOIST BEARING AND FILL CELLS SOLID WITH 20MPa CONCRETE FILL.
15. LAPS: WIRE REINF. – 200mm(8")
    10M BARS – 400mm(16")
    15M BARS – 600mm(24")
    20M BARS – 800mm(32")
16. UNLESS NOTED OTHERWISE, PROVIDE 2–15M VERTICAL BARS FULL HEIGHT AT:
    A. UNSUPPORTED ENDS OF WALLS.
    B. EACH CORNER AND AT INTERSECTIONS.
    C. EACH SIDE OF DOORS AND OTHER OPENINGS.
    D. EACH SIDE OF CONTROL JOINTS.
17. PROVIDE CLEANOUT PORT AT BOTTOM OF EACH GROUTED CORE. DO NOT CLOSE PORT OR PLACE GROUT UNTIL CORE AND STEEL HAVE BEEN INSPECTED.
18. FILL CELLS CONTAINING VERTICAL REINFORCING AND BOLTS WITH 20MPa CONCRETE (10mm(⅜") AGGREGATE, 180mm(7") SLUMP) VIBRATE OR PUDDLE TO FILL CELLS COMPLETELY. FILL CELLS IN 1500 (60") LIFTS MAXIMUM.
19. CONTROL JOINTS SHALL BE INSTALLED AT MAXIMUM SPACING OF 6M/(20'–0"), IF NOT OTHERWISE SHOWN ON ARCH'L. DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
20. FILL TWO (2) ADDITIONAL COURSE (400mm) UNDER BOND BEAMS AT ALL CONCENTRATED POINT LOADS (E.G. BEAMS OR JOIST BEARING) CONCRETE FILL TO BE IN ACCORDANCE WITH CAN3–A23.1
21. CONTROL JOINTS AND EXPANSION JOINTS SHALL BE CONTINUED THROUGH BOND BEAMS IF NOT OTHERWISE SHOWN.
22. OUTSIDE FACE OF EXTERIOR WALLS SHALL BE DAMPROOFED AS PER SPECIFICATIONS. PROVIDE WEEP HOLES AS PER STANDARD.
23. NO MASONRY WORK SHALL BE PERMITTED WITH TEMPERATURE BELOW 5° CELSIUS, UNLESS PROVISIONS ARE MADE FOR HEATING THE MATERIALS AND PROTECTING THE WORK.
24. SET BASE PLATES ON MASONRY ON NON–SHRINK GROUT.
25. FIRST COURSE OF MASONRY TO BE LAID IN A FULL BED OF MORTAR AND FILL BLOCK SOLID. ALL OTHER COURSES TO BE LAID WITH FACE SHELL BED AND HEAD JOINTS.
26. PARAPETS CONSTRUCTED OF MASONRY SHALL BE CONSTRUCTED OF SOLID UNITS OR OF HOLLOW UNITS AND THEIR CORES SHALL BE FILLED SOLID.

CONCRETE BLOCK MASONRY COMPRESSIVE STRENGTH (MPa)

LOCATION	NET	GROSS (f'm) FOR HOLLOW BLOCK	GROSS (f'm) FOR SOLID OR GROUTED BLOCK
NON–LOADBEARING INTERIOR WALLS	15	9.8	7.5
EXTERIOR WALLS, LOADBEARING WALLS, REINFORCED OR GROUTED MASONRY	20	13	10

EXCAVATION, BACKFILLING AND GRADING

CODES, REGULATIONS

1. CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) AND THE WORKPLACE HEALTH AND SAFETY ACT.
2. TOPSOIL IS TO BE 150mm THICKNESS MINIMUM PER SPECIFICATION SECTION 32 92 23.

EXAMINATION

1. BEFORE TENDERING THE WORK, THE CONTRACTOR SHALL EXAMINE THE SITE AND ASCERTAIN THE EXTENT AND NATURE OF THE MATERIAL IT MAY BE NECESSARY TO REMOVE TO PROVIDE FOR THE DEPTHS, LEVELS, AND GRADES REQUIRED, TO ASSURE HIMSELF THAT HIS DETERMINATIONS ARE MADE IN CONFORMITY WITH THE DRAWINGS AND SPECIFICATIONS.

SETTING OUT WORK

1. THE DRAWINGS INDICATE THE SITE COMPONENTS LOCATION, AND PROPOSED AND FINAL GRADES. BE RESPONSIBLE TO CONSTRUCT THE WORK ACCORDING TO LEVELS AND LOCATIONS SHOWN ON THE DRAWINGS. REPORT ANY ERRORS OR DISCREPANCIES TO THE CONSULTANT BEFORE COMMENCING WITH THE WORK. COMMENCEMENT OF ANY PART OF THE WORK SHALL CONSTITUTE ACCEPTANCE OF DRAWINGS AS BEING CORRECT.
2. EMPLOY A COMPETENT INSTRUMENT MAN AND PROVIDE ALL LINES AND LEVELS, LIMIT LINES AND BOUNDARY STAKES FOR THE EXECUTION OF THE WORK AS REQUIRED. ALL BENCH MARKS SHALL BE CAREFULLY PROTECTED.
3. PROVIDE ALL SUBCONTRACTORS WITH, AND BE RESPONSIBLE FOR, ALL LINES, LEVELS AND DIMENSIONS WHICH SUCH TRADES REQUIRE TO RELATE THEIR WORK TO THE WORK OF THE CONTRACTOR OR OTHER TRADES. ALL TRADES SHALL BE NOTIFIED THAT ALL SUCH LEVELS AND DIMENSIONS MUST BE OBTAINED FROM THE CONTRACTOR.

PROTECTION

A. PROTECTION OF EXISTING SERVICES

1. BEFORE STARTING THE WORK, VERIFY THE LOCATION OF ALL KNOWN UNDERGROUND SERVICES AND UTILITIES OCCURRING IN THE WORK SITE AREA.
2. NOTIFY THE OWNER, PUBLIC UTILITY OR MUNICIPAL AUTHORITIES IN ADVANCE OF PLANNED EXCAVATIONS ADJACENT TO THEIR SERVICES.
3. TAKE CARE NOT TO DAMAGE OR DISPLACE ENCOUNTERED KNOWN AND UNKNOWN SERVICES.
4. WHEN SUCH SERVICES ARE ENCOUNTERED DURING THE EXECUTION OF WORK, IMMEDIATELY NOTIFY THE CONSULTANT AND PROTECT, BRACE AND SUPPORT ACTIVE SERVICES. WHERE REPAIRS TO THESE SERVICES BECOME NECESSARY USE THE FOLLOWING PROCEDURE:
   a. KNOWN SERVICES, REPAIR AT NO EXPENSE TO THE OWNER.
   b. UNKNOWN SERVICES, FORWARD TO THE CONSULTANT A COMPLETE BREAKDOWN OF THE ESTIMATED COST OF SUCH WORK. PROCEED ONLY UPON WRITTEN AUTHORIZATION.
5. IN THE CASE OF DAMAGE TO, OR CUTTING OFF OF AN ESSENTIAL SERVICE, NOTIFY CONSULTANT, THE OWNER, AND PUBLIC UTILITY OR MUNICIPAL AUTHORITIES IMMEDIATELY AND REPAIR THE SERVICE UNDER THE CONSULTANT'S DIRECTION.
6. BACKFILL
   – ASSUME REUSE EXISTING COMPACT SOIL AND INFILL BALANCE OF GRANULAR MATERIAL/TOPSOIL AS REQUIRED TO ACCOMPLISH WORK ON PROJECT.
   – ALL FILL SHALL BE STORED ON SITE IN A LOCATION APPROVED BY THE OWNER/CONSULTANT AND SHALL BE PROTECTED AS REQUIRED FOR RE–USE.

EXCAVATION WORK

1. REMOVE ALL CONCRETE, MASONRY, RUBBLE OR OTHER CONSTRUCTION DEBRIS ENCOUNTERED DURING THE WORK.
2. KEEP EXCAVATION FREE OF WATER BY BAILING, PUMPING OR A SYSTEM OF DRAINAGE AS REQUIRED AND PROVIDE PUMPS, SUCTION AND DISCHARGE LINES OR WELL POINTS OF SUFFICIENT CAPACITY AND MAINTAIN UNTIL SUCH TIME AS THE PERMANENT DRAINAGE SYSTEM IS INSTALLED OR UNTIL THE CONSULTANT'S APPROVAL OF REMOVAL OF EQUIPMENT IS OBTAINED. TAKE ALL NECESSARY MEASURES TO PREVENT FLOW OF WATER INTO THE EXCAVATION.
3. PROTECT THE BOTTOM AND SIDES OF EXCAVATED PITS AND TRENCHES FROM FREEZING. PROTECT ALSO FROM EXPOSURE TO THE SUN AND WET WEATHER TO PREVENT CAVE–INS AND SOFTENING OF THE BED UPON WHICH CONCRETE OR DRAINS REST.
4. EXCAVATIONS MUST NOT INTERFERE WITH THE NORMAL 45 DEGREE PLANE OF BEARING FROM THE BOTTOM OF ANY FOOTING.
5. KEEP BOTTOMS OF EXCAVATIONS CLEAN AND CLEAR OF LOOSE MATERIALS LEVELLED AND STEPPED AT CHANGES OF LEVELS WITH EXCEPTION OF EXCAVATIONS MADE FOR DRAINAGE PURPOSES AND THOSE SLOPE AS REQUIRED.
6. IF THE EXCAVATIONS REVEAL SEEPAGE ZONES, SPRINGS OR OTHER UNEXPECTED SUB–SURFACE CONDITIONS WHICH MAY NECESSITATE REVISIONS OR ADDITIONS TO ANY DRAINAGE SYSTEM, INFORM THE CONSULTANT IMMEDIATELY SO THAT REMEDIAL CAN BE TAKEN.

BACK FILLING

1. PROCEED PROMPTLY WITH BACKFILLING AS THE BUILDING REPAIRS PROGRESSES, AND AS WORK TO BE BACKFILLED HAS BEEN INSPECTED AND APPROVED BY THE CONSULTANT. THE BACKFILL SHOULD BE PLACED IN LIFTS NOT GREATER THAN 200mm THICK IN THE LOOSE STATE, EACH LIFT BEING COMPACTED WITH A SUITABLE COMPACTOR TO THE SPECIFIED DENSITY.
2. DO NOT COMMENCE BACKFILLING OPERATIONS UNTIL SITE DRAINAGE SYSTEMS AND WATERPROOFING HAS BEEN INSPECTED AND APPROVED BY CONSULTANT.
3. WITHDRAW SHORING MATERIAL DURING BACKFILL. LUMBER LEFT IN PLACE WITHOUT THE CONSULTANT'S APPROVAL WILL NOT BE PAID FOR BY THE OWNER.
4. WHERE FILL IN PLACED ADJACENT TO STRUCTURES OR VULNERABLE BUILDING COMPONENTS OR IN RESTRICTED AREAS, THE FILL SHALL BE COMPACTED TO THE SAME DEGREE AS SPECIFIED BY SUITABLE EQUIPMENT APPROVED BY THE CONSULTANT. AVOID DAMAGE TO OR DISPLACEMENT OF EXISTING/NEW STRUCTURES.
5. ADD WATER IN AMOUNTS REQUIRED ONLY TO ACHIEVE THE OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH ASTM D1557.
6. BACKFILL SHALL BE FREE OF SNOW AND ICE, TOPSOIL, CONSTRUCTION DEBRIS AND OVERSIZED BOULDERS GREATER THAN 150mm.

BEARING PLATE SCHEDULE

MARK	SIZE	ANCHORAGE
BP1	12.7x180x400	(2)–12mmø NELSON STUDS, MIN. 150mm EMBED. INTO SOLID GROUTED BLOCK WALL
BP2	12.7x180x300	(2)–12mmø EPOXY ANCHORS, MIN. 150mm EMBED. INTO SOLID GROUTED BLOCK WALL
BP3	12.7x180x300	(2)–12mmø NELSON STUDS, MIN. 150mm EMBED. INTO SOLID GROUTED BLOCK WALL
BP4	12.7x180x200	(2)–12mmø NELSON STUDS, MIN. 150mm EMBED. INTO SOLID GROUTED BLOCK WALL

NOTES:
1. FOR BEAMS AND JOISTS WITH OVERLAPPING BEARING LOCATIONS, BEARING PLATE TO BE BP1.

LINTEL SCHEDULE

MARK	SIZE	DETAIL	REMARKS
L1	W200x46 C/W PL10x180 TOP & BOT.		BP1 AT BOTH ENDS PROVIDE 860mm LONG 15M WELDABLE DOWELS @ VERTICAL WALL REINFORCEMENT
L2	(2)–L152x89x9.5 LLV		152mm MIN. BEARING @ EA. END, DRY PACK BELOW ANGLE TO FACILITATE FULL BEARING. BLOCK CORES BELOW BEARING END TO BE GROUTED SOLID AND REINFORCED WITH 1–15M
L3	W200x15 C/W PL10x180 TOP & BOT.		BP4 AT BOTH ENDS PROVIDE 860mm LONG 15M WELDABLE DOWELS @ VERTICAL WALL REINFORCEMENT
L4	(2)–L152x89x7.9 LLV		152mm MIN. BEARING @ EA. END, DRY PACK BELOW ANGLE TO FACILITATE FULL BEARING. BLOCK CORES BELOW BEARING END TO BE GROUTED SOLID AND REINFORCED WITH 1–15M
L5	W200x15 C/W PL10x180 TOP & BOT.		

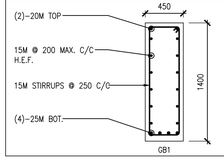
CONCRETE BLOCK WALL SCHEDULE

MARK	THICKNESS	VERT. REINF.	HORIZ. REINF.	REMARKS
MW1	190	15M @ 400 C/C	HDLR @ 400 C/C	
MW2	190	15M @ 600 C/C	HDLR @ 400 C/C	
MW3	190	15M @ 800 C/C	HDLR @ 400 C/C	
MW4	140	15M @ 600 C/C	HDLR @ 400 C/C	

NOTES:
1. MW1 TYPICAL FOR ALL NEW MASONRY WALL U.N.O.
2. DOWELS SHALL BE PROVIDED FROM FOUNDATION WALL TO ALL REINFORCED CELLS.
3. ACOUSTIC BLOCK TO HAVE A COMPRESSIVE STRENGTH OF 20 MPa. CONTRACTOR TO NOTIFY BBA OF ANY DISCREPANCIES.
4. ALL NON–LOAD BEARING MASONRY WALLS REINFORCED WITH 15M @ 800 C/C U.N.O. (TYP.)
5. ALL WALL CORES BELOW BEARING PLATES TO BE SOLID GROUTED.

GRADE BEAM SCHEDULE

MARK	SIZE	REINFORCEMENT	REMARKS
GB1	450 WIDE x 1400 DEEP	15M @ 200 MAX. C/C E.W. + (2)–20M TOP & (4)–25M BOT. 15M STIRRUPS @ 250 C/C	



CONCRETE FOUNDATION WALL SCHEDULE

MARK	SIZE	VERT. REINFORCEMENT	HORIZ. REINFORCEMENT	REMARKS
CW1	190	15M @ 400 C/C	15M @ 400 C/C	(2)–15M CONT. TOP & BOT. HORIZ.
CW2	375	15M @ 400 C/C E.F.	15M @ 400 C/C E.F.	(2)–15M CONT. TOP & BOT. HORIZ.

WALL FOOTING SCHEDULE

MARK	FOOTING SIZE (WxD)	REINFORCING	REMARKS
WF1	1800x400	(6)–20M CONT. + 15M @ 250 C/C SHORT	
WF2	1500x350	(6)–15M CONT. + 15M @ 275 C/C SHORT	
WF3	1200x350	(5)–15M CONT. + 15M @ 325 C/C SHORT	
WF4	700x250	(3)–15M CONT. + 15M BENT DOWELS @ 400 C/C STAGGERED SHORT	

ZONE REINFORCEMENT SCHEDULE

MARK	REINFORCING	DETAIL	REMARKS
Z1	2–15M VERT		GROUT SOLID REINFORCED CELLS
Z2	3–15M VERT		GROUT SOLID REINFORCED CELLS
Z3	4–15M VERT		GROUT SOLID REINFORCED CELLS
Z4	4–15M VERT		GROUT SOLID REINFORCED CELLS
Z5	5–15M VERT		GROUT SOLID REINFORCED CELLS

NOTES:
1. UNLESS NOTED OTHERWISE, PROVIDE Z1 AT ENDS OF ALL OPENINGS.
2. PROVIDE Z4 AT ALL BEARING PLATE LOCATIONS, UNLESS NOTED OTHERWISE.
3. PROVIDE Z3 AT CORNERS OF LOAD BEARING WALLS U.N.O.

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR 30% REVIEW	JUN. 26, 2026	BBA
2	ISSUED FOR 80% REVIEW	SEP. 16, 2026	BBA
3	ISSUED FOR 90% REVIEW	OCT. 30, 2026	BBA
4	ISSUED FOR PERMIT/TENDER	NOV. 11, 2026	BBA

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

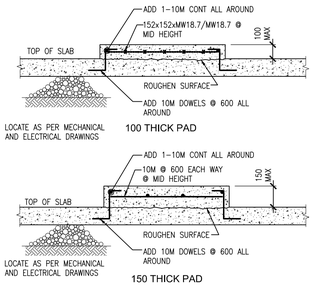
55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:
GENERAL NOTES & SCHEDULES

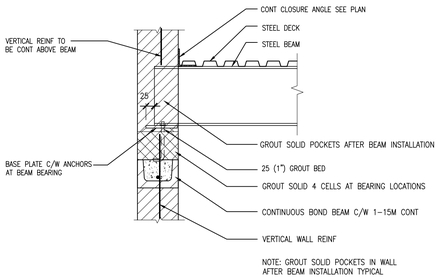
DESIGN BY: SJ/AS
DRAWN BY: JMM
CHECKED BY: SJ
DATE: JUNE 2026
SCALE: AS NOTED

SEAL: LICENSED PROFESSIONAL ENGINEER S. J. B. A. JÄÄGUMÄGI 100225530 NOV. 11, 2026 PROVINCE OF ONTARIO

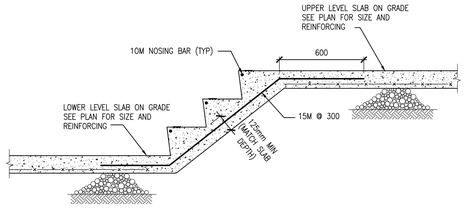
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DRAWING NO: S102



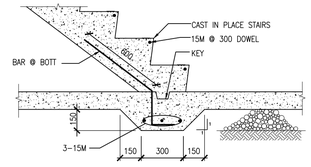
14 S103 HOUSE KEEPING PADS
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12 S103 TYP. STEEL BEAM BEARING ON MASONRY DETAIL
N.T.S.

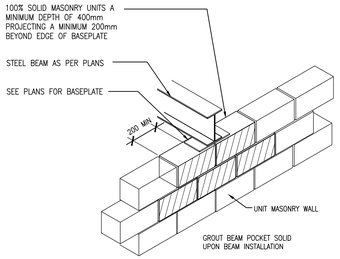


STAIR ON GRADE REINFORCING

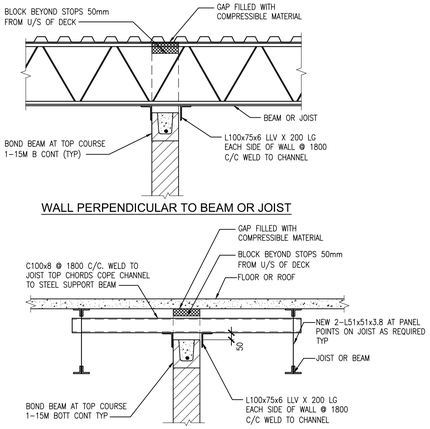


STAIR SUPPORT AT SLAB ON GRADE

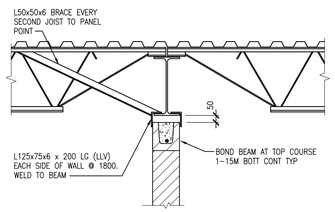
9 S103 TYPICAL STAIR DETAIL
N.T.S.



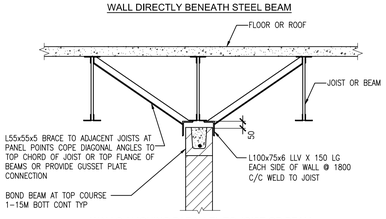
11 S103 STEEL BEAM BEARING ON MASONRY DETAIL
N.T.S.



WALL PARALLEL TO JOIST OR BEAM

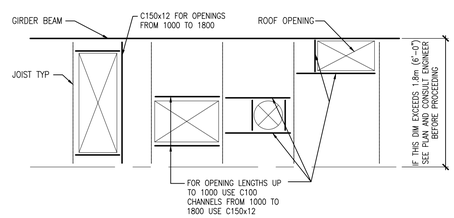


WALL DIRECTLY BENEATH STEEL BEAM

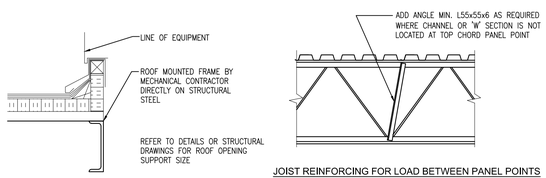


WALLS ALIGNING PARALLEL TO JOIST OR BEAM

13 S103 LATERAL SUPPORT OF TOP OF MASONRY WALLS
N.T.S.



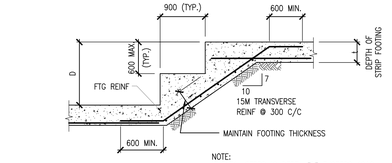
NOTE: INSTALL L76x76x4.8 CLOSURE ANGLE AROUND ALL FRAMED OUT ROOF OPENINGS



JOIST REINFORCING FOR LOAD BETWEEN PANEL POINTS

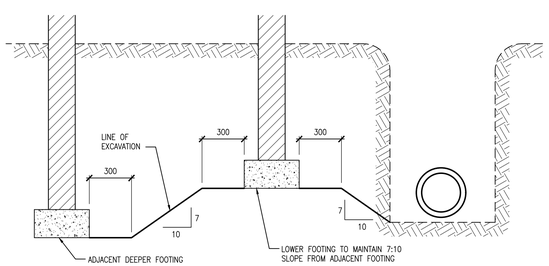
1. TOP OF ALL TRIMMING STEEL TO BE AT THE UNDERSIDE OF STEEL ROOF DECK, UNLESS OTHERWISE NOTED.
2. LOCATION OF ALL MECHANICAL UNITS AND OPENING THROUGH ROOF IS BASED ON INFORMATION SUPPLIED BY MECHANICAL DRAWINGS. THE STRUCTURAL STEEL CONTRACTOR MUST CONFIRM ALL THESE DIMENSIONS AND SIZES WITH THE MECHANICAL CONTRACTOR. OWSJ MUST BE DESIGNED FOR ADDITIONAL LOADS FROM MECHANICAL UNITS. IF LOCATION OR DETAILS VARY FROM THOSE SHOWN THE STRUCTURAL ENGINEER MUST BE INFORMED AND INSTRUCTIONS RECEIVED BEFORE PROCEEDING WITH THE WORK.
3. THE STRUCTURAL STEEL CONTRACTOR SHOULD SUBMIT ERECTION DRAWINGS TO THE MECHANICAL ENGINEER AND OR CONTRACTOR FOR APPROVAL OF SIZE AND LOCATION OF OPENINGS FOR MECHANICAL UNITS.
4. PROVIDE SOLID BLOCKING IN STEEL DECK FLUTES BELOW PERIMETER OF UNIT.

10 S103 TYP. FRAMING FOR ROOF OPENING IN DECK
N.T.S.

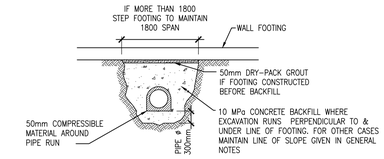


NOTE:
IF TOTAL STEPPING DEPTH "D" EXCEEDS 1200mm THEN PROVIDE INTERMEDIATE HORIZONTAL SECTION OF A MINIMUM LENGTH OF 1200mm BETWEEN STEPPED FOOTINGS.

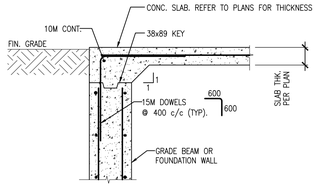
8 S103 STEP DOWN FOOTING DETAIL
N.T.S.



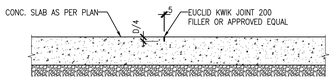
7 S103 SLOPE REQUIREMENTS OF ADJACENT FOOTING
N.T.S.



6 S103 BACKFILLING UNDER CONT. WALL FOOTING
N.T.S.



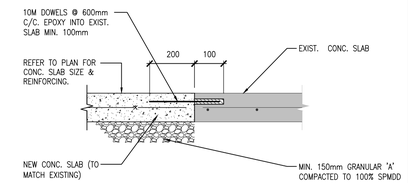
5 S103 FOUNDATION AT EXTERIOR DOORS
1:20



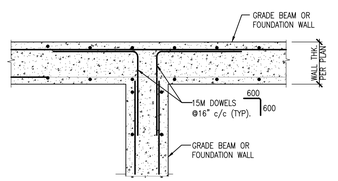
NOTES:

1. SAWCUTTING SHALL BE CARRIED OUT WITHIN 6 TO 18 HOURS OF PLACING CONCRETE.
2. AFTER THE SLAB IS 30 DAYS OLD REMOVE ALL DEBRIS FROM THE SAWCUTS AND FILL WITH MORTAR CONTAINING CEMENT, SAND AND LATEX BONDING AGENT, OR AS NOTED IN SPECIFICATIONS.
3. SPACE SAWCUTS SHOWN ON PLANS OR AT 3000mm C/C MAX.
4. SAWCUT LAYOUT TO BE REVIEWED/VERIFIED BY THE CONSULTANT DURING CONSTRUCTION.

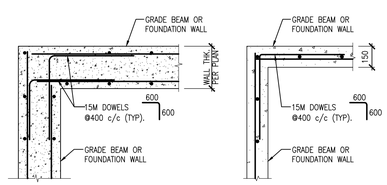
4 S103 TYPICAL SLAB SAWCUT
1:20



3 S103 TYP. POURED SLAB TO EX. DETAIL
N.T.S.



2 S103 TYPICAL WALL REINF AT WALL TEE
N.T.S.



1 S103 TYPICAL WALL REINF AT CORNER
N.T.S.

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

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2	ISSUED FOR 80% REVIEW	SEP. 16, 2026	BBA
3	ISSUED FOR 90% REVIEW	OCT. 30, 2026	BBA
4	ISSUED FOR PERMIT/TENDER	NOV. 11, 2026	BBA

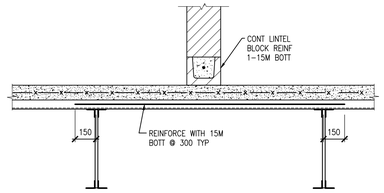
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

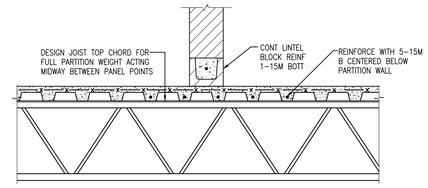
55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:
TYPICAL DETAILS

DESIGN BY: SJ/AS	SEAL: LICENSED PROFESSIONAL ENGINEER S. J. B. A. JAAGUMAGE 100225530 NOV. 11, 2026 PROVINCE OF ONTARIO
DRAWN BY: JMM	
CHECKED BY: SJ	
DATE: JUNE 2026	
SCALE: AS NOTED	
PROJECT NO: 25062	DRAWING NO: S103



TYPICAL DETAIL AT BLOCK PARTITION CENTERED MORE THAN 200mm FROM JOIST

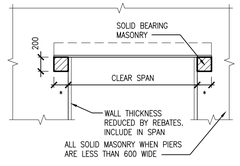


TYPICAL DETAIL AT BLOCK PARTITION PERPENDICULAR TO JOISTS

NON-LOAD BEARING STEEL LINTELS FOR MASONRY WALLS

	CLEAR SPAN					DETAIL
	UP TO 1200	1200 TO 1800	1800 TO 2400	2400 TO 3000		
90 VENEER	1-L89x89x6.4	1-L127x89x7.9 (LLV)	1-L152x89x9.5 (LLV)	1-L152x89x13 (LLV) + 12.7 BOT. PL.		⌞
140	2-L64x64x6.4	2-L89x64x6.4	2-L89x64x7.9	2-L89x64x9.5		⊥ 64 LEGS HORIZ
190	2-L89x76x6	2-L89x89x6	2-L100x89x8	2-L127x89x8		⊥ 89 LEGS HORIZ
240	1-L102x76x6.4+ 1-L127x76x6.4	1-L102x102x6+ 1-L127x76x6	1-L102x102x8+ 1-L127x89x8	1-L102x152x8+ 1-L127x127x8		⊥ 102 & 127 LEGS HORIZ
290	3-L89x76x6.4 (LLH)	3-L89x89x6.4	3-L102x89x7.9 (LLV)	3-L127x89x7.9 (LLV)		⊥ ⌞

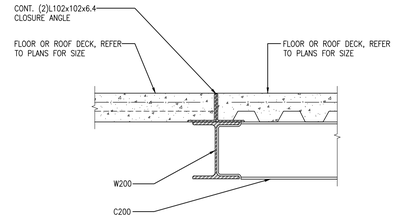
NOTES
1. CONNECT ANGLES AT 600 C/C BY WELDING OR BOLTING FOR ANGLES WITH A TOTAL LENGTH OF 1800 OR MORE. USE 16ø BOLTS OR 6x50 LONG WELDS.
2. USE SCHEDULES FOR LINTELS OVER MECH OPENINGS IN NON-LOAD BEARING MASONRY WALLS UNLESS NOTED OTHERWISE ON PLAN. REFER TO MECH DWGS FOR LOCATIONS.
3. OPENINGS TO BE LOCATED MIN 3 COURSES BELOW UNDERSIDE OF SLAB UNLESS APPROVED BY STRUCTURAL ENGINEER.
4. FOR DOUBLE WYTHE WALLS PROVIDE 10mm GUSSETS @ 800 C/C STEEL LINTEL SUPPORT BLOCK ABOVE PLUS CONT. 320x10mm BOT PLATE.
5. SCHEDULE IS TYPICAL FOR ALL NON-LOAD BEARING WALLS EXCEPT WHERE NOTED ON PLAN DRAWINGS.



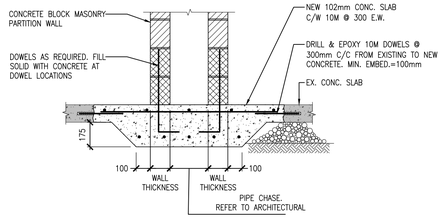
* BEARING LENGTH
150 (6") MINIMUM EACH END (STEEL ANGLE LINTEL
200 (8") MINIMUM EACH END (BLOCK LINTELS)

6 / S104 NON-LOAD BEARING MASONRY LINTEL SCHEDULE

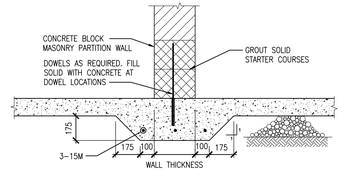
4 / S104 MASONRY PARTITIONS SUPPORTED ON SLABS
N.T.S.



3 / S104 DECK DIRECTION CHANGE
1:10

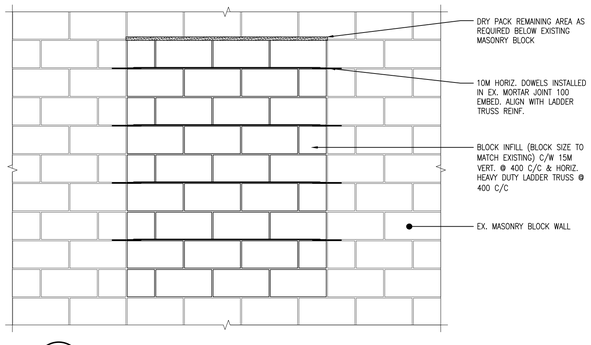


2 / S104 FOUNDATION AT NON-BEARING WALLS
N.T.S.

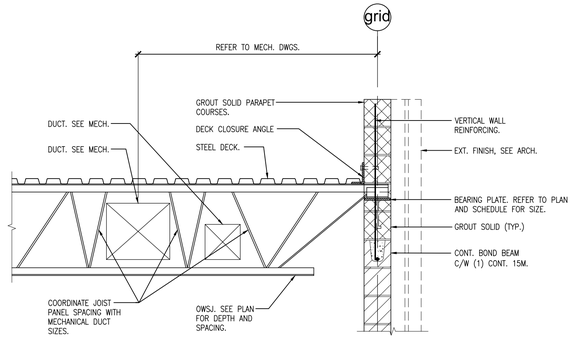


NOTE: DOWELS TO BE DRILLED AND EPOXIED

1 / S104 FOUNDATION AT NON-BEARING WALLS DETAIL
N.T.S.



7 / S104 TYPCIAL WALL INFILL DETAIL
NTS



5 / S104 (TYP.) DUCT THROUGH JOISTS
1:20

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Learning and Living in Faith

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST
CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:
TYPICAL DETAILS

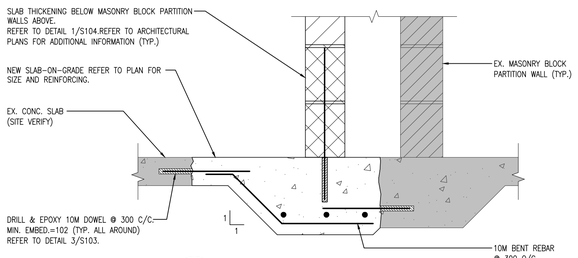
DESIGN BY: SJ/AS
DRAWN BY: JMM
CHECKED BY: SJ
DATE: JUNE 2026
SCALE: AS NOTED

SEAL:
LICENSED PROFESSIONAL ENGINEER
S. J. B. A. JAGUMAGI
100225530
NOV. 11, 2026
PROVINCE OF ONTARIO

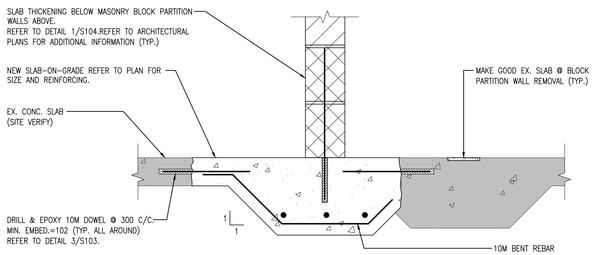
PROJECT NO: 25062
DRAWING NO: S104

FOUNDATION PLAN NOTES:

1. FINISHED GROUND FLOOR IS AT 0000mm. INDICATED FOUNDATION ELEVATIONS SHALL BE READ FROM FINISHED FLOOR, U.N.O.
2. ALL FOOTINGS TO BE CENTERED UNDER PIERS, WALLS AND/OR COLUMNS U.N.O.
3. SEE ARCHITECTURAL DRAWINGS FOR SLOPES AND DRAINS. MAINTAIN SLAB THICKNESS AS SHOWN.
4. LOWER FOOTINGS AS REQUIRED TO ACCOMMODATE NEW AND/OR EXISTING FOOTINGS, MECHANICAL, ELECTRICAL OR CIVIL SERVICES. SEE ALSO TYPICAL DETAILS.
5. PROTECT ALL EXISTING SUBGRADE SERVICES DURING INSTALLATION OF FOUNDATIONS.
6. REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
7. 'Z' DENOTES MASONRY ZONE REINFORCING. REFER TO SCHEDULES.
8. PROVIDE SLAB THICKENING AT ALL INTERIOR NON-LOAD BEARING WALLS. SEE ALSO TYPICAL DETAILS.
9. PROVIDE DOWELS INTO FOOTINGS TO MATCH ALL VERTICAL WALL REINFORCEMENT.



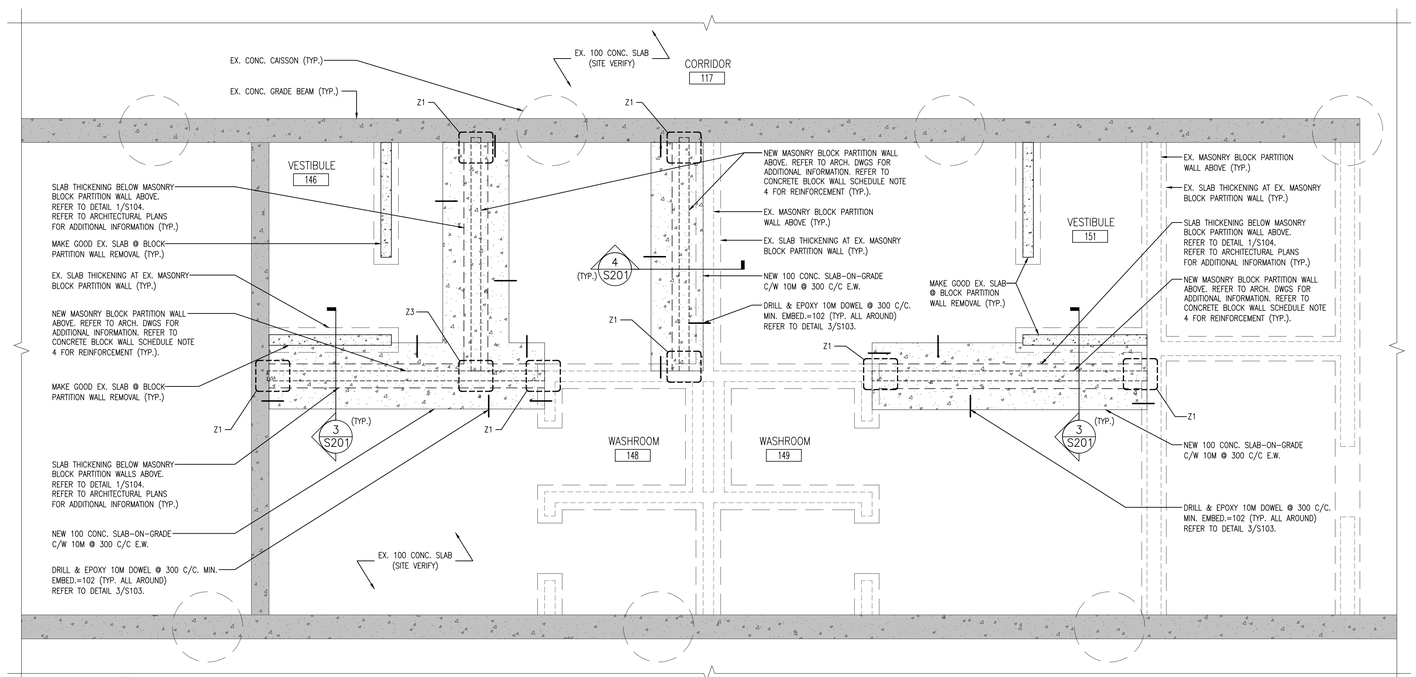
4 S201 FOUNDATION SECTION
1:10



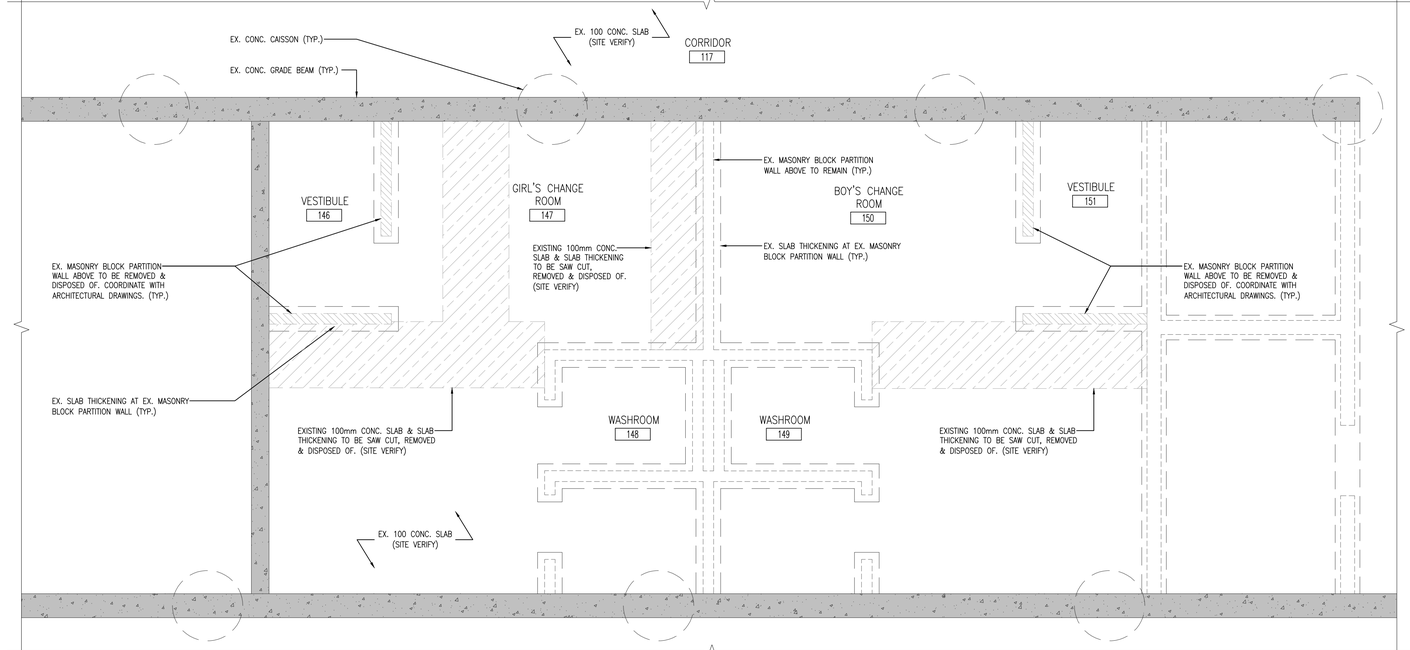
3 S201 FOUNDATION SECTION
1:10

TYPICAL DEMOLITION NOTES

1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
3. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE OR PART THEREOF.
4. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
5. MAINTAIN WORK AREAS AND STORAGE AREAS.
6. MAINTAIN EXISTING FIRE HOSE CABINETS AND FIRE RATINGS.
7. REMOVE ALL PROTRUSIONS OUT OF FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.
8. DISPOSE OF ALL MATERIALS OFF SITE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR / REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
10. THE EXISTING FACILITY WILL REMAIN OPERATIONAL FOR THE DURATION OF CONSTRUCTION. THE GENERAL CONTRACTOR MUST ISOLATE THE CONSTRUCTION AREA FROM THE SURROUNDING FACILITY OPERATION WITH DUST TIGHT TARPS. THE EXISTING MECHANICAL VENTILATION SYSTEMS WITH THE CONSTRUCTION AREA MUST BE COVERED TO ELIMINATE DUST CIRCULATION THROUGH THE FACILITY.
11. THE GENERAL CONTRACTOR MUST WORK WITH THE SCHOOL BOARD TO PROVIDE TEMPORARY SIGNAGE DURING CONSTRUCTION AROUND THE WORK AREA FOR WAY FINDING. THE GENERAL CONTRACTOR WILL PROVIDE, INSTALL AND REMOVE ALL TEMPORARY SIGNAGE.



2 S201 PART FOUNDATION PLAN - NEW
1:40



1 S201 PART FOUNDATION PLAN - DEMOLITION
1:40

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NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:
PART FOUNDATION PLANS

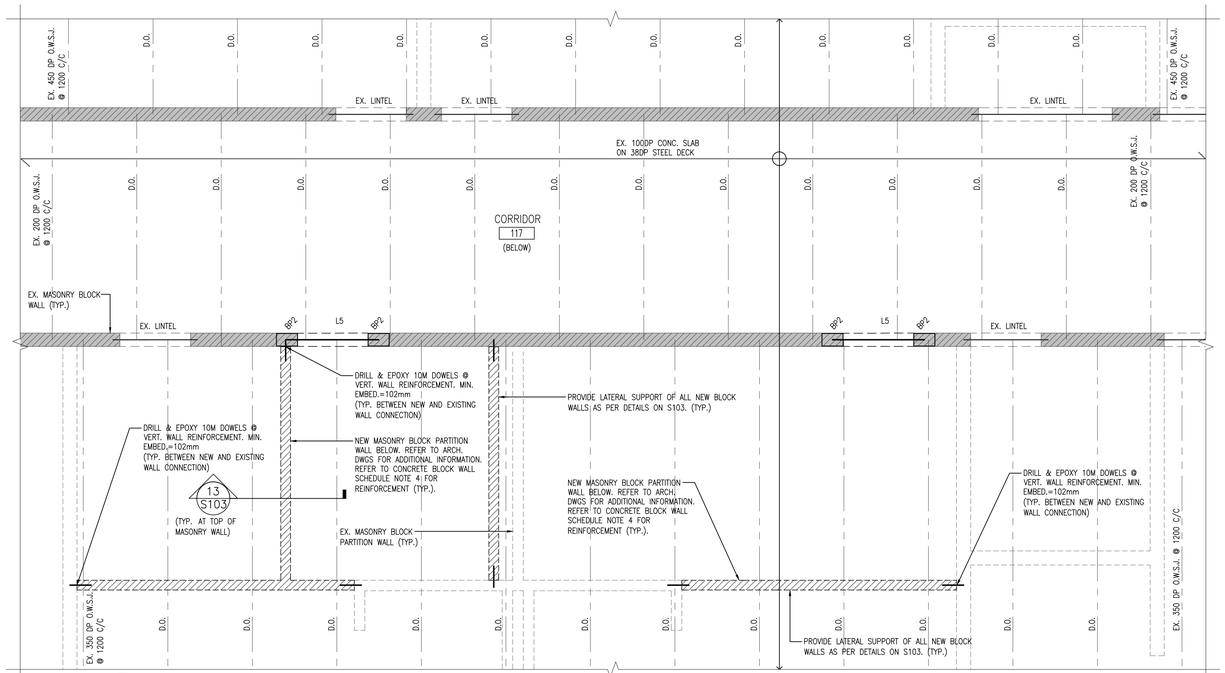
DESIGN BY: SJ/AS	SEAL: LICENSED PROFESSIONAL ENGINEER S. J. B. A. JAAGUMAGI 100225530 NOV. 11, 2026 PROVINCE OF ONTARIO
DRAWN BY: JMM	
CHECKED BY: SJ	
DATE: JUNE 2026	
SCALE: AS NOTED	
PROJECT NO: 25062	DRAWING NO: S201

EXISTING 2ND FLOOR DESIGN LOADS:

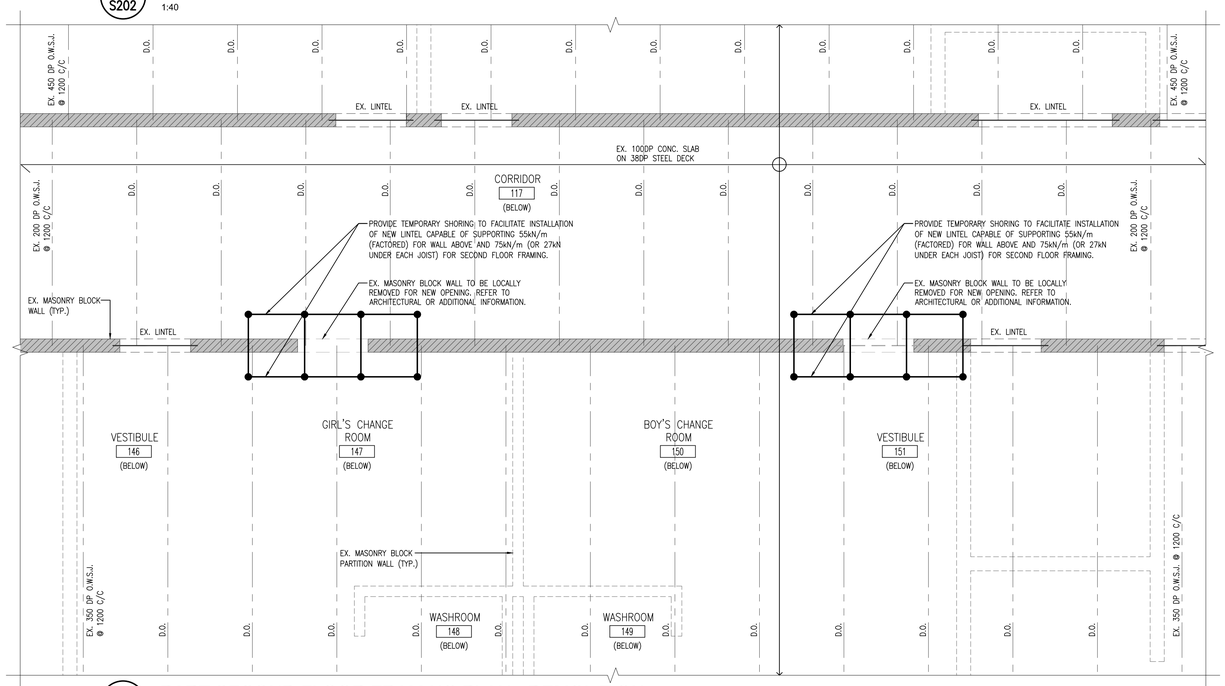
DEAD LOAD:
SDL= 0.7kPa
D.L= 2.4kPa (COMPOSITE SLAB)

LIVE LOAD:
CORRIDORS, MEETING ROOMS & STAIRWELLS= 4.8kPa
WASHROOMS, CLASSROOMS & OFFICES= 2.4kPa
MECHANICAL ROOM= 7.2kPa

NOTE:
EXISTING FRAMING AND DESIGN LOADS ARE BASED ON REFERENCE DRAWINGS FOR THE WHITBY CATHOLIC ELEMENTARY SCHOOL BY RICHARD DRAY ENGINEERING, DATED OCTOBER 12, 1999



2 / S202 PART SECOND FLOOR FRAMING PLAN - NEW
1:40



1 / S202 PART SECOND FLOOR FRAMING PLAN - DEMOLITION
1:40

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NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:
PART SECOND FLOOR FRAMING PLANS

DESIGN BY: SJ/AS
DRAWN BY: JMM
CHECKED BY: SJ
DATE: JUNE 2026
SCALE: AS NOTED

SEAL:
LICENSED PROFESSIONAL ENGINEER
S. J. B. A. JRAGUMAGE
100225530
NOV. 11, 2026
PROVINCE OF ONTARIO

PROJECT NO: 25062
DRAWING NO: S202

FOUNDATION NOTES:

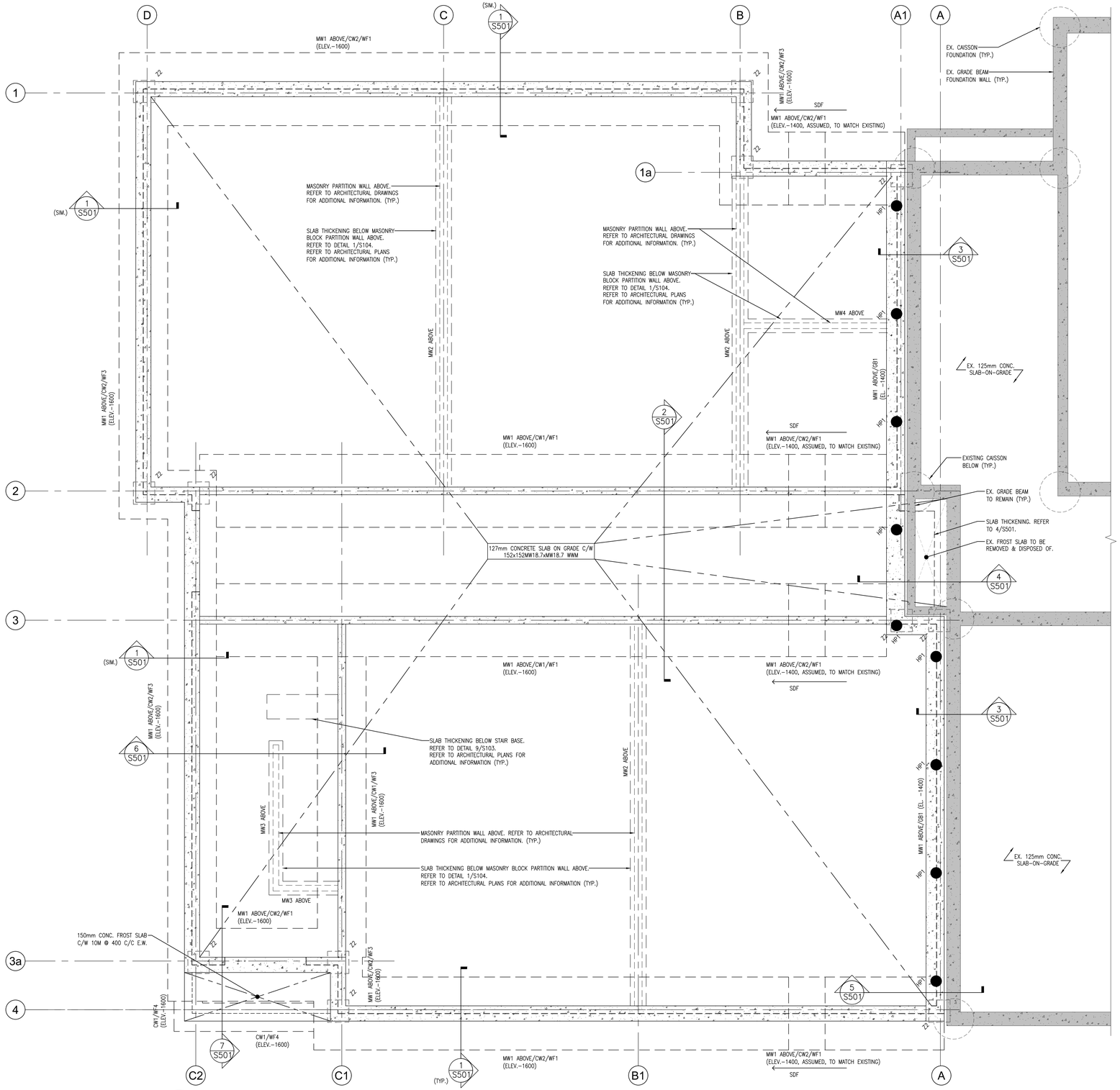
1. FINISHED GROUND IS AT ELEVATION +000mm (108.56m GEODETIC) EXCEPT AS CROSSED AND NOTED. ELEVATIONS FOR AREAS CROSSED AND NOTED ARE TO BE READ FROM FINISHED FLOOR ELEVATION 0000mm.
2. ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL OR ENGINEERED FILL AS APPROVED BY THE GEOTECHNICAL CONSULTANTS CAPABLE OF SUPPORTING 75 kPa (SLS), 125 kPa (ULS). BEARING CAPACITY MUST BE CONFIRMED BY GEOTECHNICAL CONSULTANT.
3. VERIFY SITE SERVICES PRIOR TO PROCEEDING WITH WORK. NOTIFY CONSULTANTS OF ANY DISCREPANCIES. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. LOWER FOOTINGS TO ACCOMMODATE NEW FOOTINGS, MECHANICAL, ELECTRICAL OR CIVIL SERVICES. SEE MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS FOR ELEVATIONS OF SAME. FOOTINGS ARE NOT TO BE UNDERMINED BY EXCAVATION FOR SERVICES PITS, ETC.
5. PROTECT ALL EXISTING SUB GRADE SERVICES DURING INSTALLATION OF FOUNDATIONS.
6. REFER TO GENERAL NOTES AND TYPICAL DETAILS ON DRAWING S100 SERIES FOR ADDITIONAL INFORMATION.
7. Z – DENOTED ZONE REINFORCING. REFER TO SCHEDULE ON S102.
8. ALL FOOTINGS TO BE CENTERED UNDER PIERS, WALLS AND OR COLUMNS EXCEPT AS NOTED ON PLAN.
9. PROVIDE SLAB THICKENING AS PER DETAIL 1/S104 FOR ALL INTERIOR NON-LOAD BEARING WALLS EXCEPT AS NOTED ON PLAN OR SECTION.
10. PROVIDE DOWELS IN FOOTINGS TO MATCH ALL VERTICAL WALL REINFORCEMENT.
11. EXCAVATE ALL PRE-EXISTING LOOSE FILL, TOPSOIL AND/OR ORGANIC SOIL UNTIL COMPETENT NATIVE SOIL IS REACHED. GEOTECHNICAL CONSULTANT TO INSPECT AND APPROVE SUBGRADE BELOW ENGINEERED FILL PRIOR TO FILL PLACEMENT AND COMPACTION. ALL EXISTING FILL SHALL BE ASSUMED AS CLEAN FOR DISPOSAL.
12. ALL EXTERIOR FOOTINGS TO BE MINIMUM 1200mm BELOW FINISHED GRADE FOR FROST COVER.
13. PLACE ALL CONCRETE SLAB ON GRADE ON 200mm COMPACTED GRANULAR 'A' SUB-BASE.

HELICAL PILES

1. PREPARE AND SUBMIT TO THE CONSULTANT FOR REVIEW HELICAL PILE SHOP DRAWINGS INCLUDING HELICAL PIER DESIGN SELECTION, CONSTRUCTION DETAILS, AND INSTALLATION PROCEDURES.
2. HELICAL PILES SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATIONS, PROCEDURES AND DESIGN REQUIREMENTS.
3. ALL HELICAL PILE INSTALLATION SHALL BE COMPLETED UNDER THE SUPERVISION OF THE AUTHORIZED HELICAL PIER SUPPLIER.
4. SUBMIT INSTALLATION REPORTS, FINAL INSTALLED PILE CAPACITY, VERIFICATION AND CONFORMATION OF DESIGN AND INSTALLATION SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN ONTARIO.
5. HELICAL PILE DESIGNS ARE BASED ON AB CHANCE HELICAL PILE HELICES. MINIMUM PILE DESIGN LOADS ARE OUTLINED IN THE TABLE BELOW.
6. TOPS OF HELICAL PILES WITH A TOP PLATE DESIGNED FOR THE REQUIRED LOAD TRANSFER SHALL BE EMBEDDED IN THE BASE OF THE GRADE BEAMS. REFER TO SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.

HELICAL PILE MINIMUM DESIGN LOADS

MARK	COMPRESSION LOAD (kN)	TENSION LOAD	NOTES
HP1	Ps= 85 kN Pf= 110 kN	–	TOP PLATE, LAP AND HELICAL PILE BY SUPPLIER AND SPECIALTY ENGINEER



1 S201 FOUNDATION PLAN
1:50

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

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2	ISSUED FOR 80% REVIEW	SEP. 16, 2026	BBA
3	ISSUED FOR 90% REVIEW	OCT. 30, 2026	BBA
4	ISSUED FOR PERMIT/TENDER	NOV. 11, 2026	BBA

NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:
FOUNDATION PLAN

DESIGN BY: SJ/AS	SEAL: LICENSED PROFESSIONAL ENGINEER S. J. B. A. JANGUMAGER 100225530 NOV. 11, 2026 PROVINCE OF ONTARIO
DRAWN BY: JMM	
CHECKED BY: SJ	
DATE: JUNE 2026	
SCALE: AS NOTED	
PROJECT NO: **25062**	DRAWING NO: **S203**

SECOND FLOOR FRAMING NOTES:

(PER EXISTING DRAWINGS)

1. DEAD LOADS:

FLOORING	0.80 kPa
COMP. DECK	2.45 kPa
FRAMING	0.20 kPa
M/E ALLOWANCE	0.25 kPa
CEILING	0.20 kPa
PARTITION ALLOWANCE	1.00 kPa
TOTAL:	4.90 kPa

2. LIVE LOADS:

CLASSROOMS	2.40 kPa
CORRIDORS/STAIRS	4.80 kPa
STORAGE ROOM	4.80 kPa

3. LINTEL L4 TO BE USED FOR ALL DUCT OPENINGS AND RECESSED FIRE EXTINGUISHER CABINET (FEC) LOCATIONS GOING THROUGH BLOCK WALLS (REFER TO MECHANICAL DRAWINGS FOR DUCT AND FEC LOCATIONS).

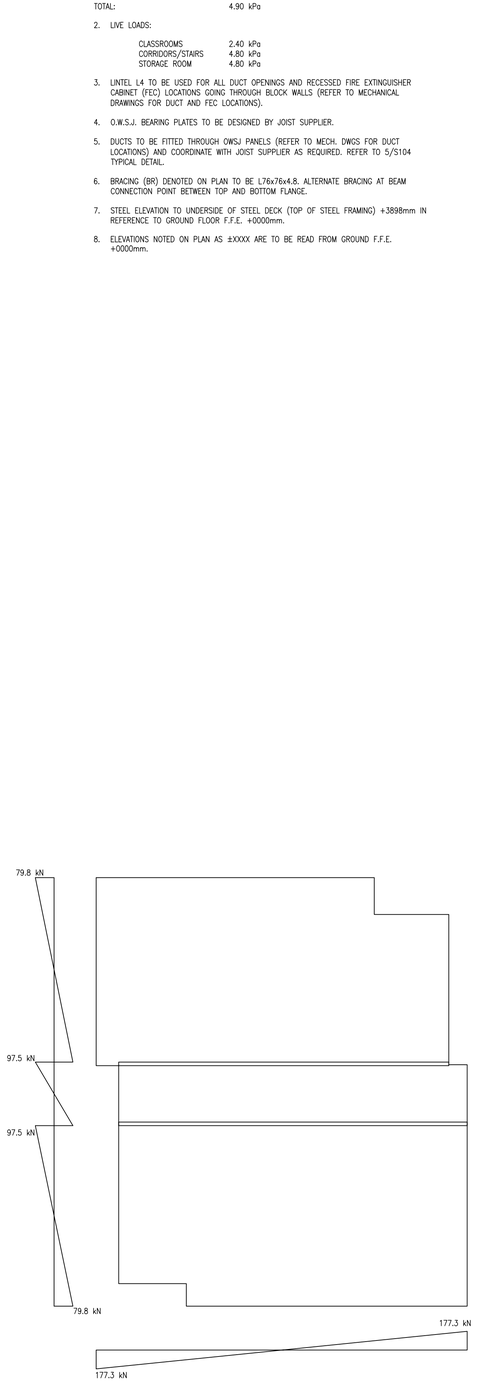
4. O.W.S.J. BEARING PLATES TO BE DESIGNED BY JOIST SUPPLIER.

5. DUCTS TO BE FITTED THROUGH OWSJ PANELS (REFER TO MECH. DWGS FOR DUCT LOCATIONS) AND COORDINATE WITH JOIST SUPPLIER AS REQUIRED. REFER TO 5/S104 TYPICAL DETAIL.

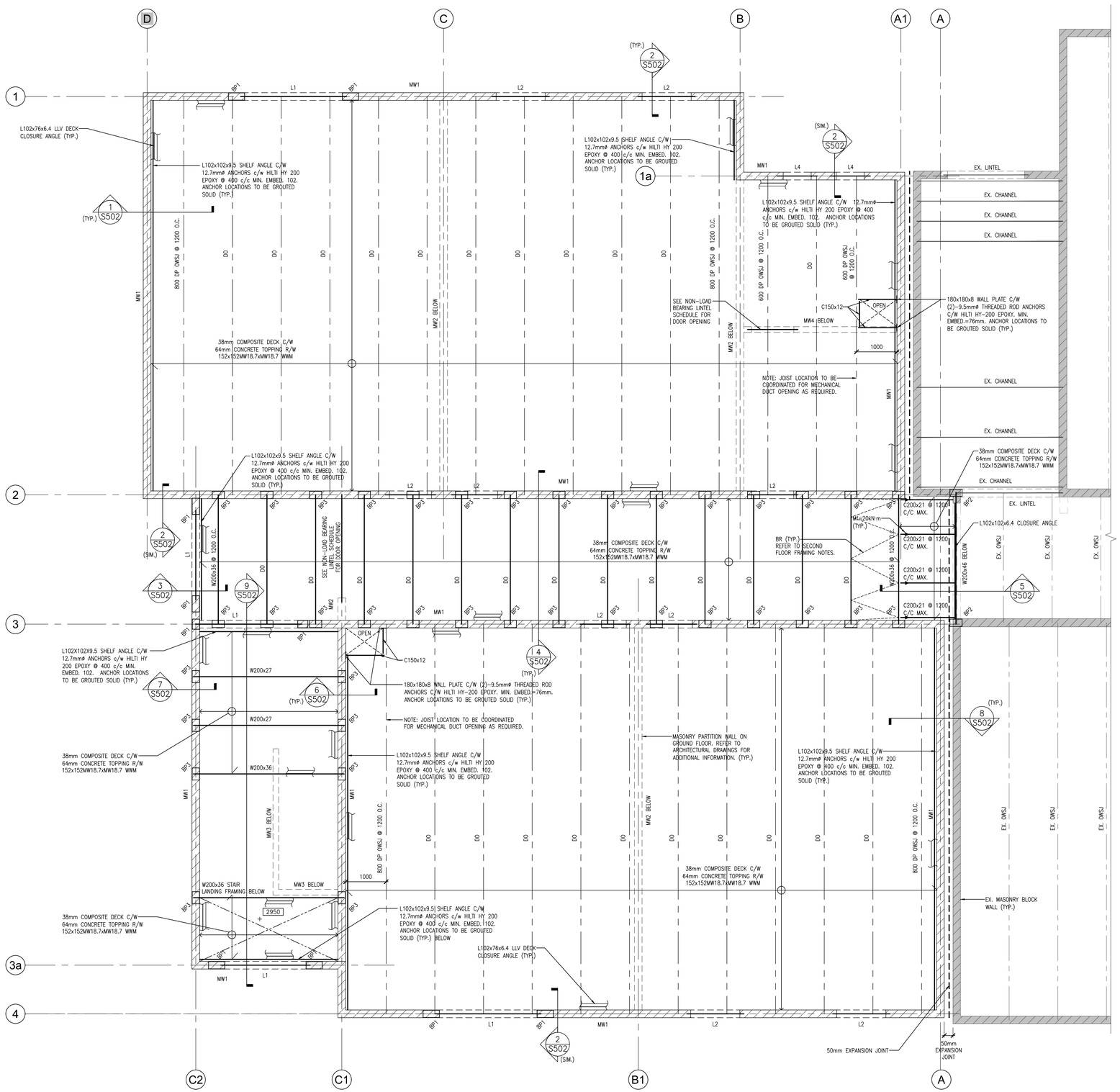
6. BRACING (BR) DENOTED ON PLAN TO BE L76x76x4.8. ALTERNATE BRACING AT BEAM CONNECTION POINT BETWEEN TOP AND BOTTOM FLANGE.

7. STEEL ELEVATION TO UNDERSIDE OF STEEL DECK (TOP OF STEEL FRAMING) +3898mm IN REFERENCE TO GROUND FLOOR F.F.E. +0000mm.

8. ELEVATIONS NOTED ON PLAN AS ±XXXX ARE TO BE READ FROM GROUND F.F.E. +0000mm.



3/S204 2ND FLOOR DIAPHRAGM LOADING
N.T.S.



1/S204 SECOND FLOOR FRAMING PLAN
1:50

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NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:
SECOND FLOOR FRAMING PLAN

DESIGN BY:	SJ/AS
DRAWN BY:	JMM
CHECKED BY:	SJ
DATE:	JUNE 2026
SCALE:	AS NOTED

SEAL:
LICENSED PROFESSIONAL ENGINEER
S. J. B. A. JAAGUMAGI
100225530
NOV. 11, 2026
PROVINCE OF ONTARIO

PROJECT NO: 25062

DRAWING NO: S204

ROOF FRAMING NOTES:

1. ROOF FRAMING DESIGN LOADS:

   DEAD LOAD:

ROOFING	0.50 kPa
DECK	0.15 kPa
M/E	0.25 kPa
CEILING	0.20 kPa
STRUCTURE	0.20 kPa
	1.30 kPa

   LIVE LOAD: 1.00 kPa

   SNOW LOAD:

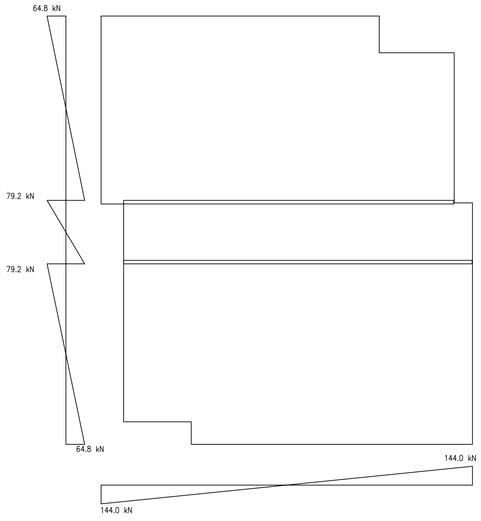
Ss	1.20 kPa
Sr	0.40 kPa
BASIC SNOW ACCUMULATION AS NOTED ON PLAN	1.60 kPa

   WIND LOAD:

q(50)	0.48 kPa

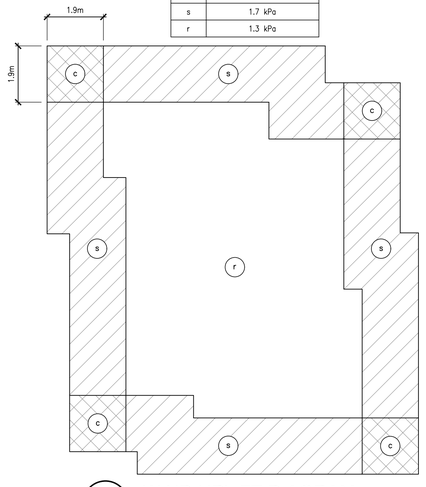
   RAIN LOAD: 1.47kPa
   (MAX ALLOWABLE DEPTH OF RAIN WATER TO BE 150mm FOR FLOW CONTROL DRAINS)

5. DUCTS TO BE FITTED THROUGH OWSJ PANELS (REFER TO MECH. DWGS FOR DUCT LOCATIONS) AND COORDINATE WITH JOIST SUPPLIER AS REQUIRED. REFER TO S/S104 TYPICAL DETAIL.
6. LINTEL L4 TO BE USED FOR ALL DUCT OPENINGS AND RECESSED FIRE EXTINGUISHER CABINET (FEC) LOCATIONS GOING THROUGH BLOCK WALLS (REFER TO MECHANICAL DRAWINGS FOR DUCT AND FEC LOCATIONS).
7. O.W.S.J. BEARING PLATES TO BE DESIGNED BY JOIST SUPPLIER.
8. BRACING (BR) DENOTED ON PLAN TO BE L51x51x6.4. ALTERNATE BRACING AT BEAM CONNECTION POINT BETWEEN TOP AND BOTTOM FLANGE.
9. STEEL ELEVATION TO UNDERSIDE OF STEEL DECK (TOP OF STEEL FRAMING) +7800mm IN REFERENCE TO GROUND FLOOR F.F.E. +0000mm.
10. ELEVATIONS NOTED ON PLAN AS ±XXXX ARE TO BE READ FROM GROUND F.F.E. +0000mm.

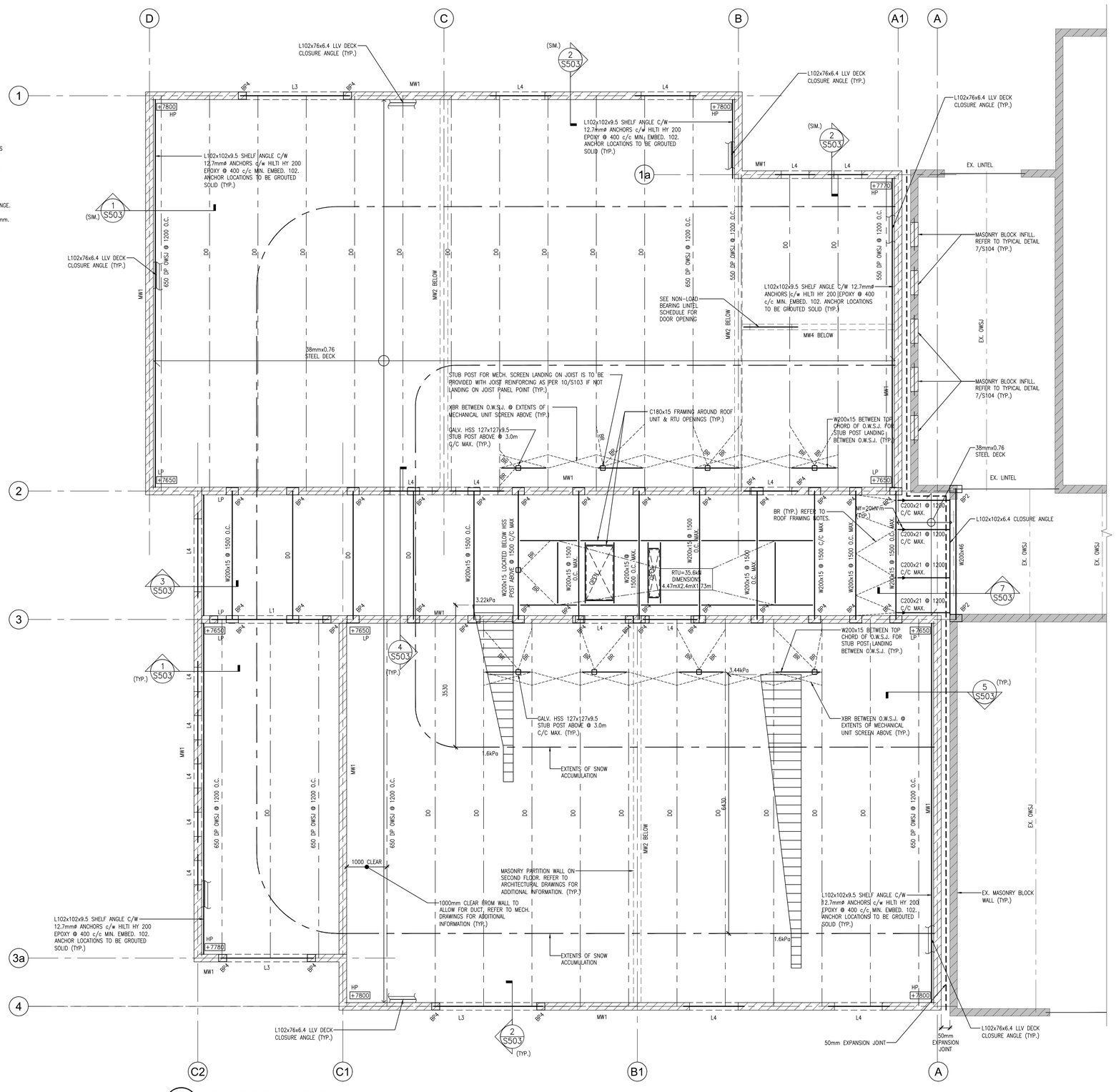


3/S205 ROOF DIAPHRAGM LOADING
N.T.S.

WIND UPLIFT	
MARK	GROSS UPLIFT (UNFACTORED)
c	3.2 kPa
s	1.7 kPa
r	1.3 kPa



2/S205 WIND UPLIFT DIAGRAM
N.T.S.



1/S205 ROOF FRAMING PLAN
1:50

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NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

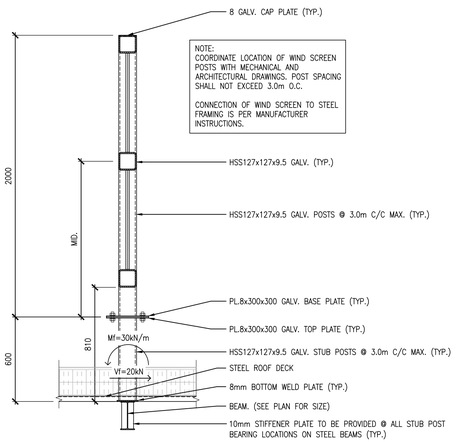
DRAWING:
ROOF FRAMING PLAN &
WIND UPLIFT DIAGRAM

DESIGN BY:	SJ/AS
DRAWN BY:	JMM
CHECKED BY:	SJ
DATE:	JUNE 2026
SCALE:	AS NOTED

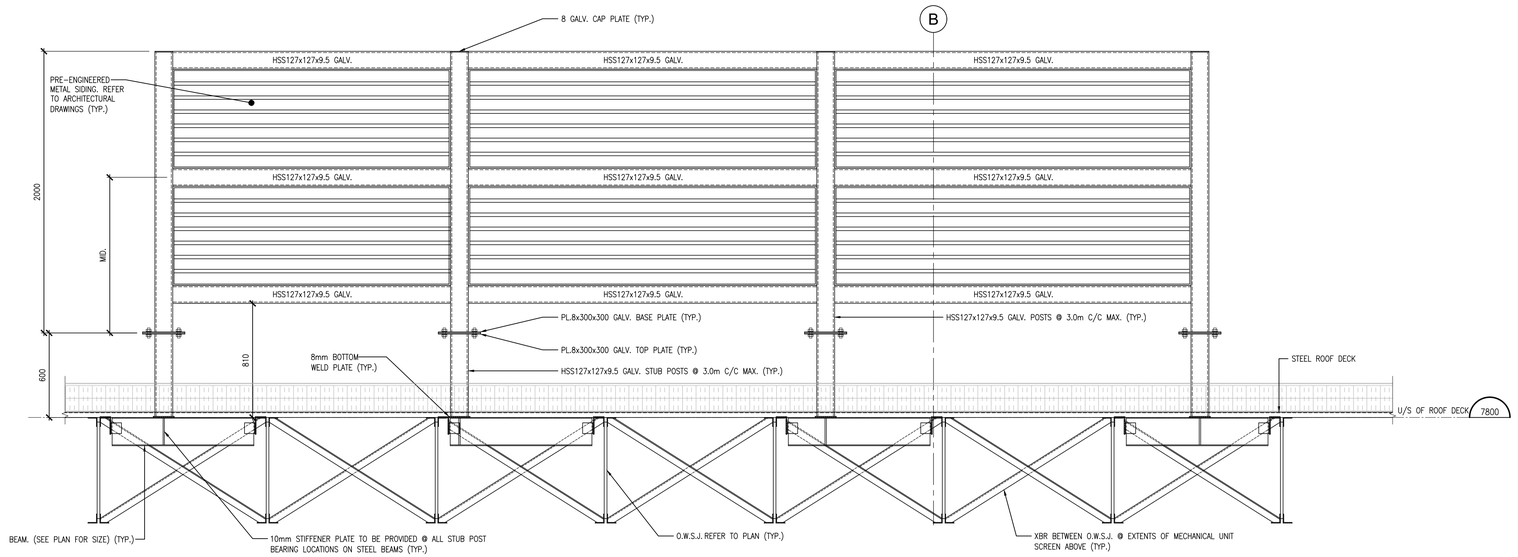
SEAL:
LICENSED PROFESSIONAL ENGINEER
S. J. B. A. JAYAGUMAR
100225530
NOV. 11, 2026
PROVINCE OF ONTARIO

PROJECT NO: **25062**

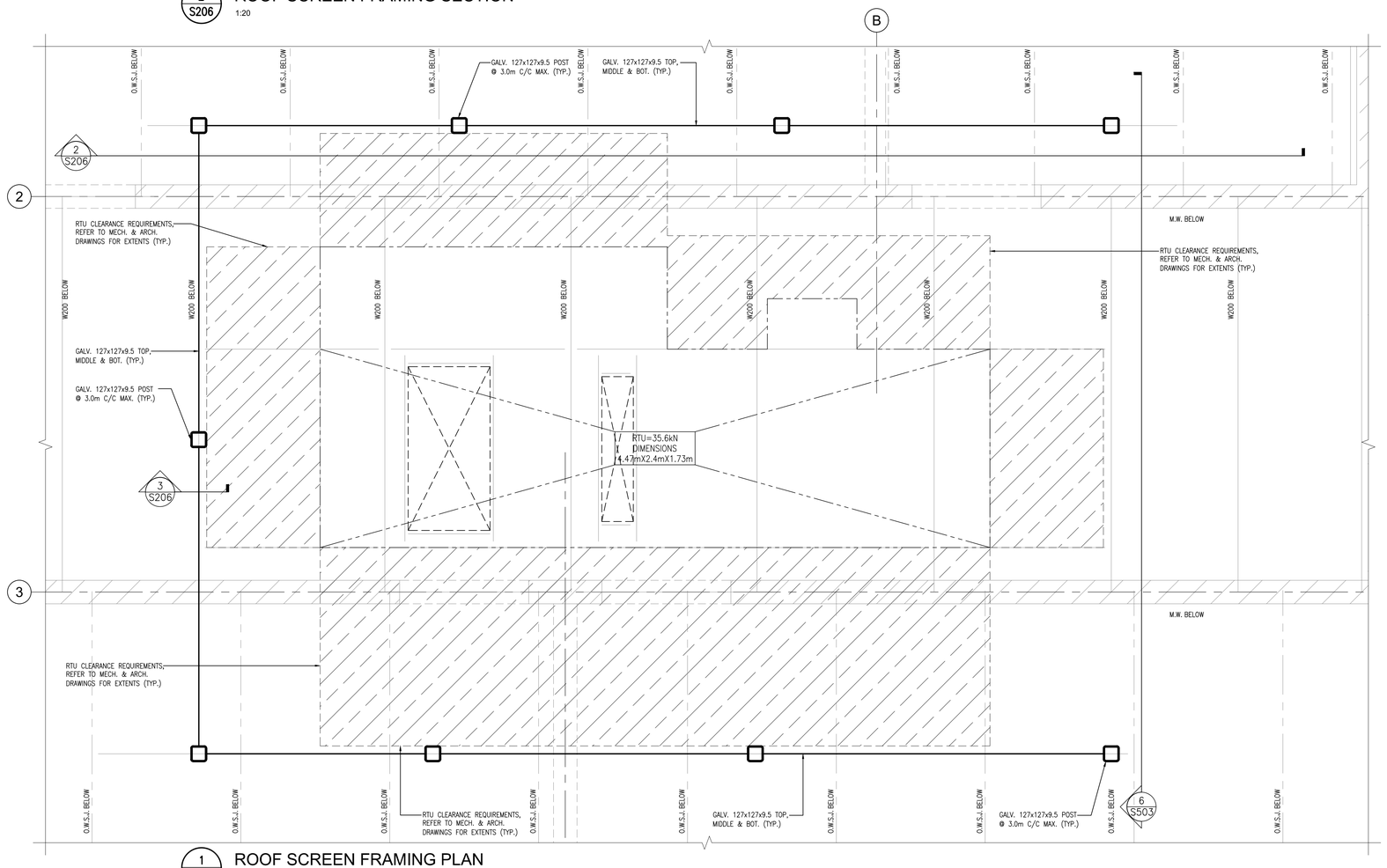
DRAWING NO: **S205**



3 S206 ROOF SCREEN FRAMING SECTION
1:20



2 S206 ROOF SCREEN FRAMING SECTION
1:20



1 S206 ROOF SCREEN FRAMING PLAN
1:20

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NORTH

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:
ROOF SCREEN FRAMING PLAN

DESIGN BY: SJ/AS	SEAL: LICENSED PROFESSIONAL ENGINEER S. J. B. A. JAAGUMAGI 100225530 NOV. 11, 2026 PROVINCE OF ONTARIO
DRAWN BY: JMM	
CHECKED BY: SJ	
DATE: JUNE 2026	
SCALE: AS NOTED	
PROJECT NO: 25062	DRAWING NO: S206

EXISTING ROOF FRAMING LOADS:

(PER EXISTING DRAWINGS)

1. DEAD LOAD: 1.44 kPa
   SNOW LOAD: 1.36 kPa + ACCUMULATION AS NOTED ON PLANS

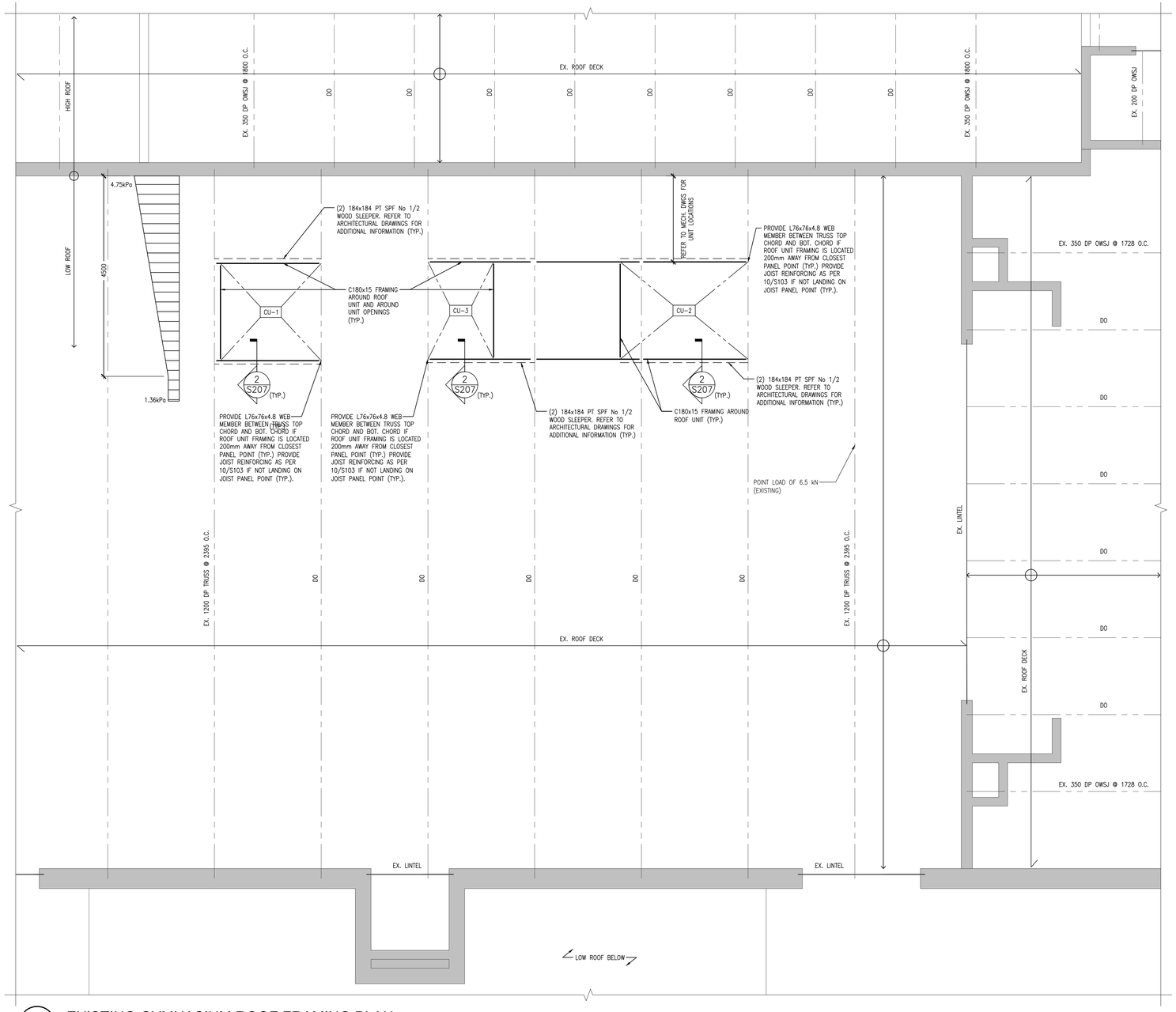
UNIT SCHEDULE

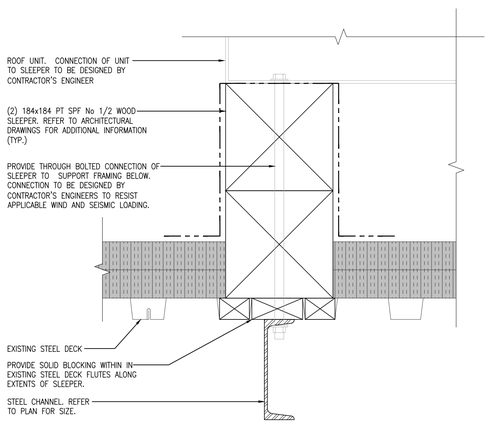
CU-1: MAX WEIGHT=12.21kN
DIMENSIONS=2.24mX2.24m

CU-2: MAX WEIGHT=13.47kN
DIMENSIONS=2.89mX2.24m

CU-3: MAX WEIGHT=7.55kN
DIMENSIONS=1.52mX2.24m

NOTE:
EXISTING FRAMING AND DESIGN LOADS ARE BASED ON REFERENCE DRAWINGS FOR THE WHITBY CATHOLIC ELEMENTARY SCHOOL BY RICHARD DRAY ENGINEERING, DATED OCTOBER 12, 1999





2 / S207 (TYP.) CURB DETAIL
1:5

1 / S207 EXISTING GYMNASIUM ROOF FRAMING PLAN
1:50

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4	ISSUED FOR PERMIT/TENDER	NOV. 11, 2026	BBA

NORTH

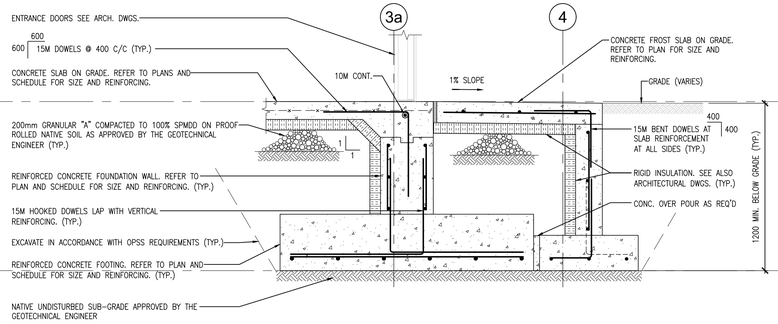
BBA
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

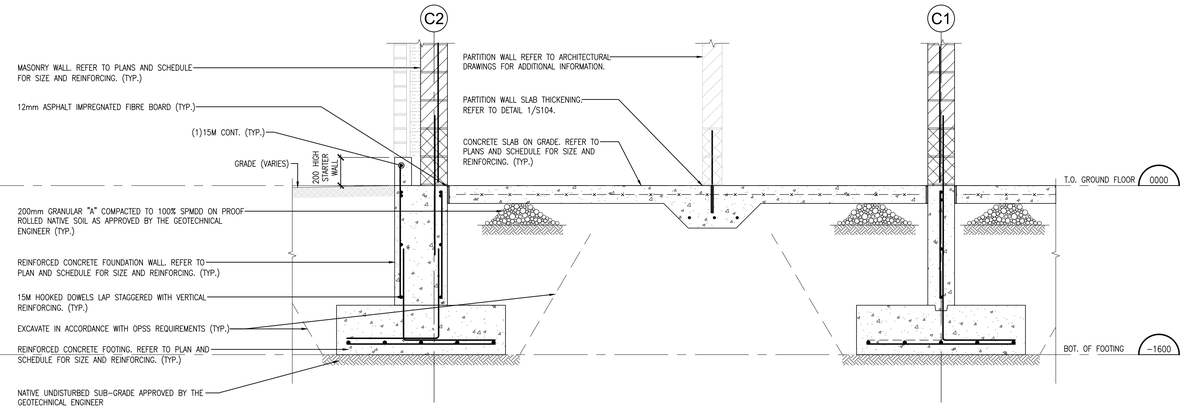
55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:
EXISTING GYMNASIUM ROOF FRAMING PLAN

DESIGN BY: SJ/AS	SEAL: LICENSED PROFESSIONAL ENGINEER S. J. B. A. JAAGUMAGI 100225530 NOV. 11, 2026 PROVINCE OF ONTARIO
DRAWN BY: JMM	
CHECKED BY: SJ	
DATE: JUNE 2026	
SCALE: AS NOTED	
PROJECT NO: 25062	DRAWING NO: S207



7 / S501 FOUNDATION SECTION
1:20

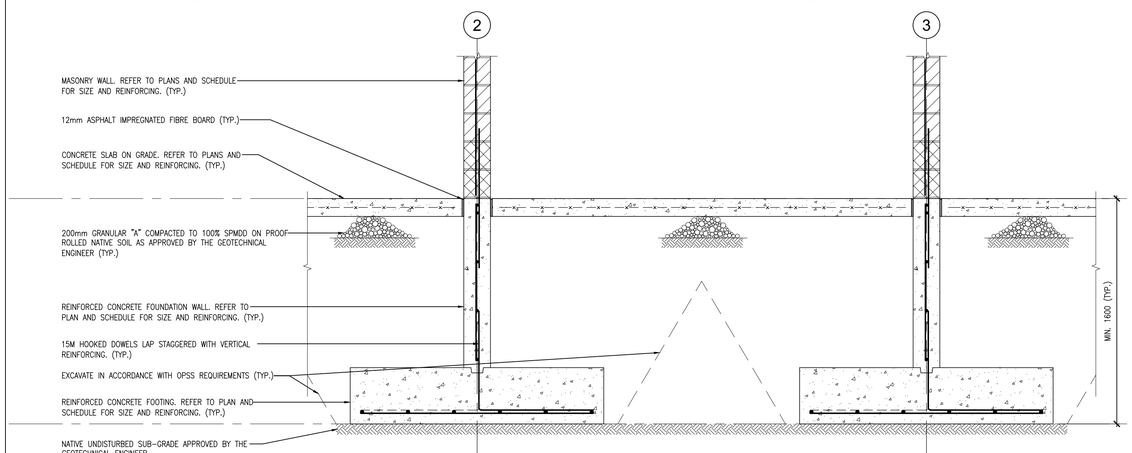


6 / S501 FOUNDATION SECTION
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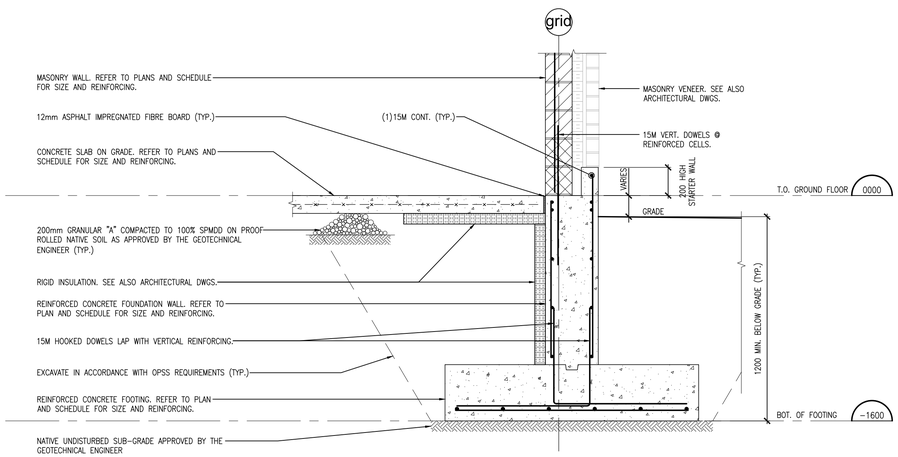
5 / S501 FOUNDATION SECTION
1:20

4 / S501 FOUNDATION SECTION
1:20

3 / S501 FOUNDATION SECTION
1:20



2 / S501 FOUNDATION SECTION
1:20



1 / S501 FOUNDATION SECTION
1:20

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

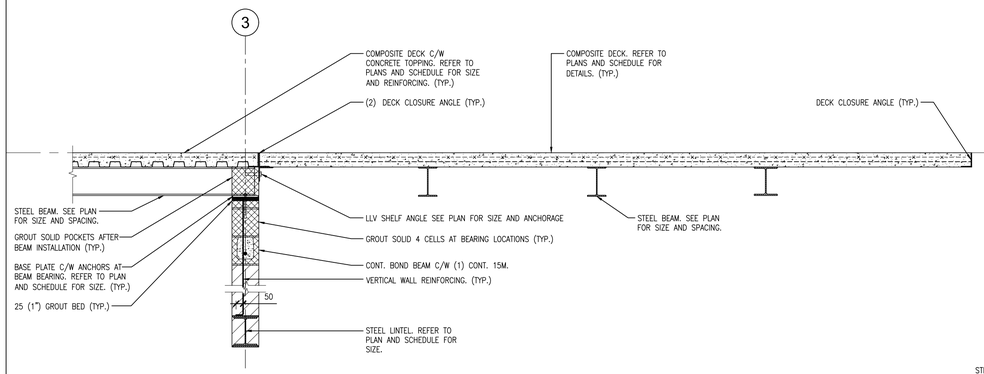
55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:
SECTIONS & DETAILS

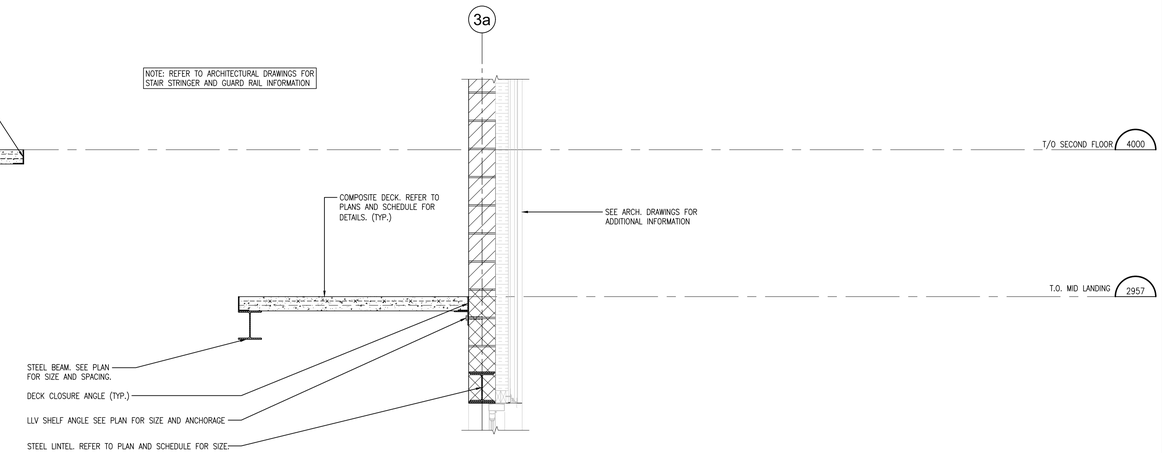
DESIGN BY: SJ/AS
DRAWN BY: JMM
CHECKED BY: SJ
DATE: JUNE 2026
SCALE: AS NOTED

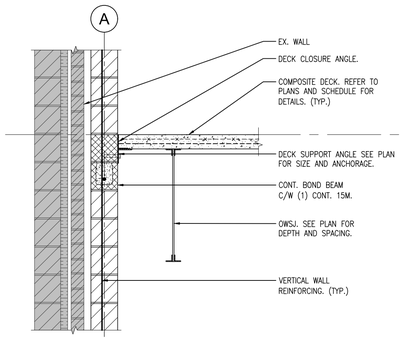
SEAL:
LICENSED PROFESSIONAL ENGINEER
S. J. B. A. JINAGUMAGE
100225530
NOV. 11, 2026
PROVINCE OF ONTARIO

PROJECT NO: **25062**
DRAWING NO: **S501**

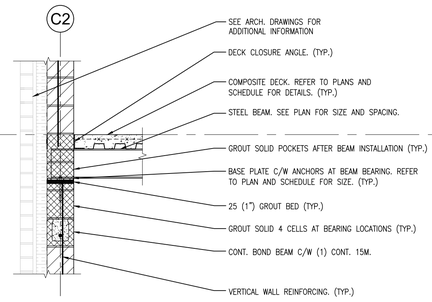


9 S502 2ND FLOOR FRAMING SECTION
1:20

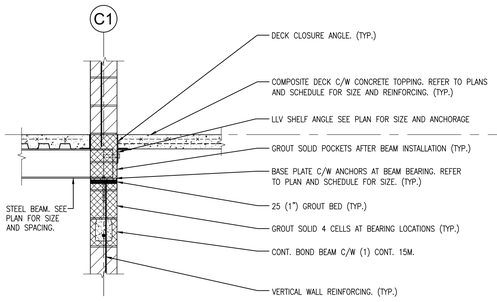




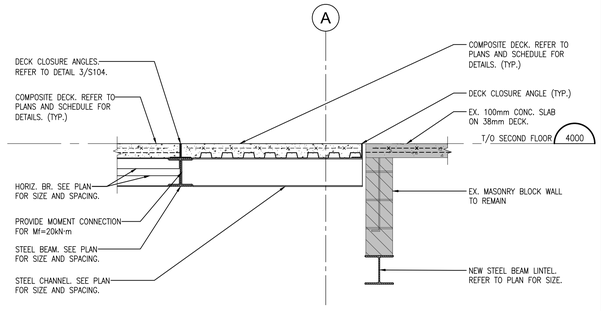
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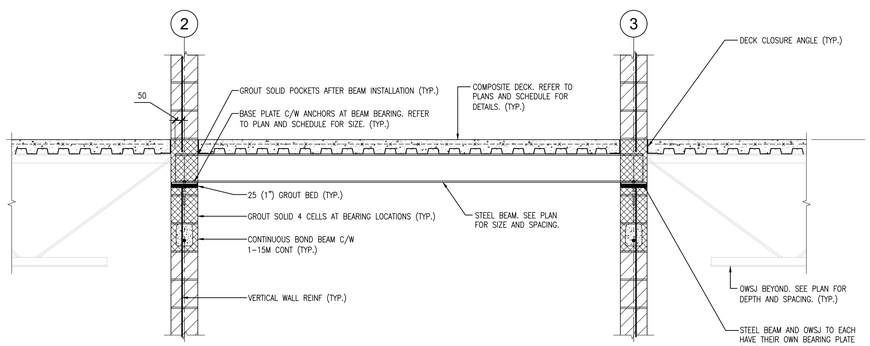
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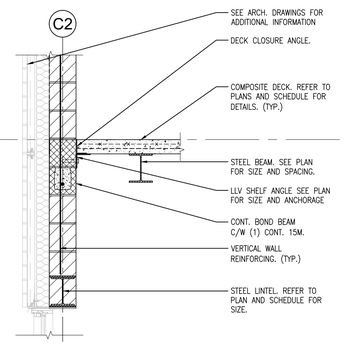
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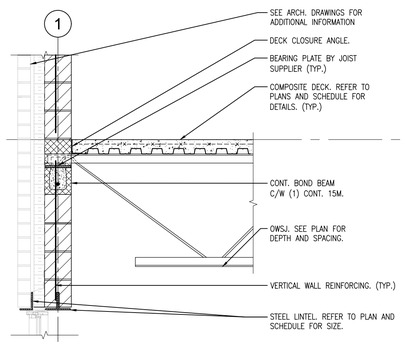
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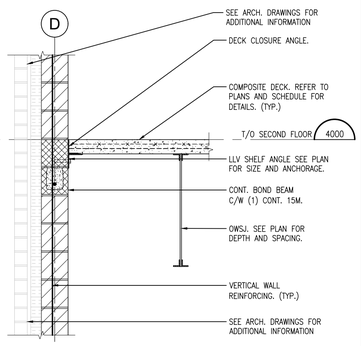
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1:20



3 S502 2ND FLOOR FRAMING SECTION
1:20



2 S502 2ND FLOOR FRAMING SECTION
1:20



1 S502 2ND FLOOR FRAMING SECTION
1:20

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR 30% REVIEW	JUN. 26, 2026	BBA
2	ISSUED FOR 80% REVIEW	SEP. 16, 2026	BBA
3	ISSUED FOR 90% REVIEW	OCT. 30, 2026	BBA
4	ISSUED FOR PERMIT/TENDER	NOV. 11, 2026	BBA

BARRY BRYAN ASSOCIATES

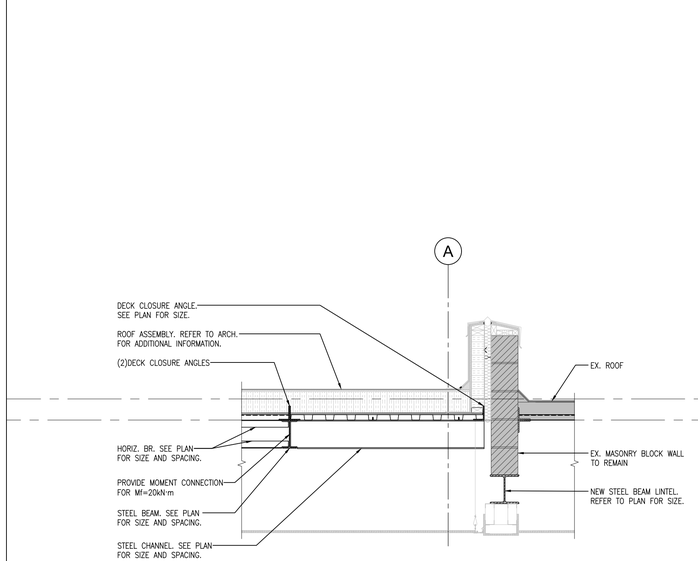
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

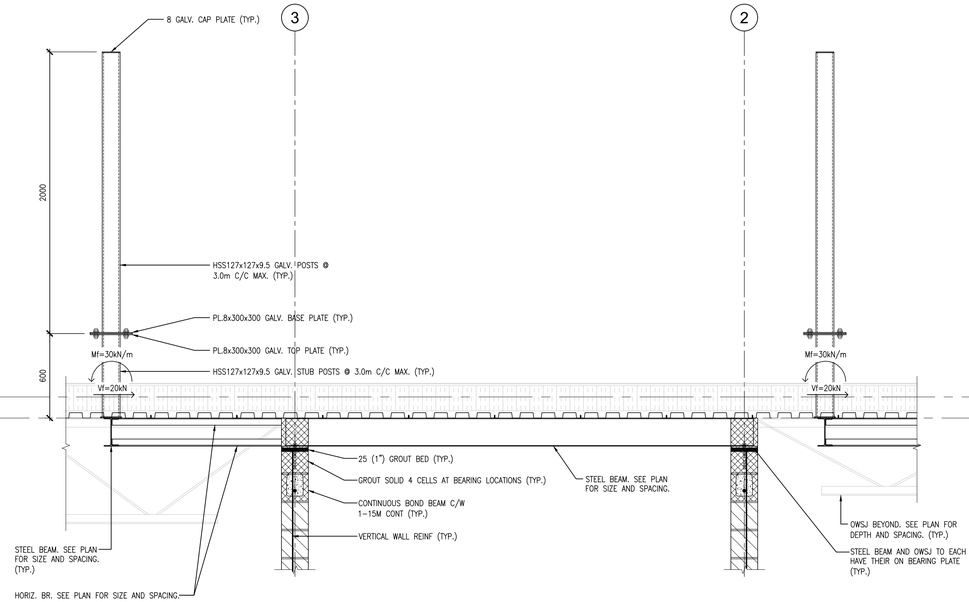
DRAWING:
SECTIONS & DETAILS

DESIGN BY:	SJ/AS
DRAWN BY:	JMM
CHECKED BY:	SJ
DATE:	JUNE 2026
SCALE:	AS NOTED
PROJECT NO:	25062
DRAWING NO:	S502

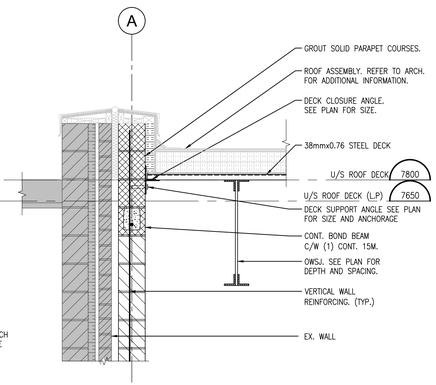
SEAL:
LICENSED PROFESSIONAL ENGINEER
S. J. B. A. JAAGUMAGI
100225530
NOV. 11, 2026
PROVINCE OF ONTARIO



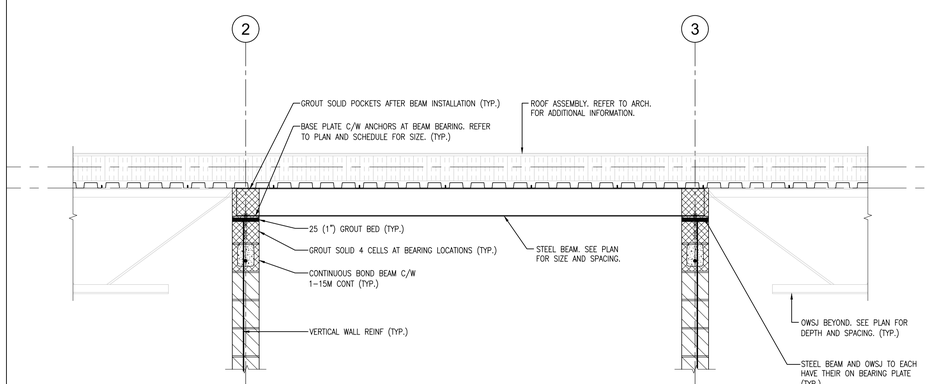
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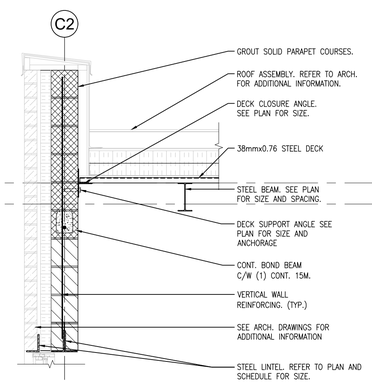
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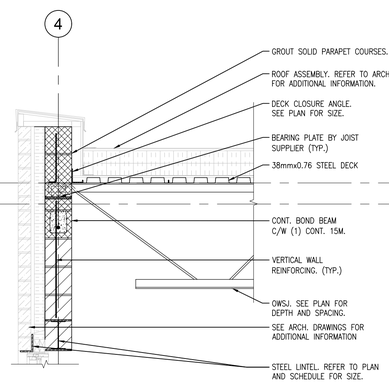
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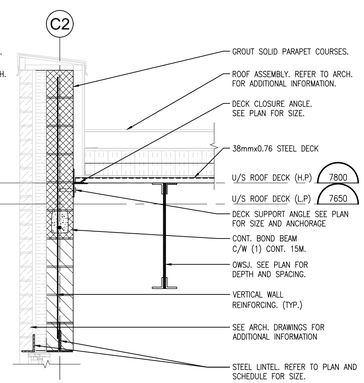
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1:20



3 S503 ROOF FRAMING SECTION
1:20



2 S503 ROOF FRAMING SECTION
1:20



1 S503 ROOF FRAMING SECTION
1:20

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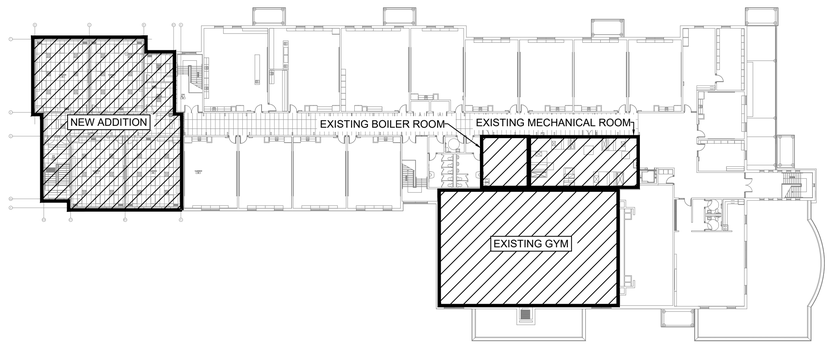
BARRY BRYAN ASSOCIATES

PROJECT:
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ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9
DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:
SECTIONS & DETAILS

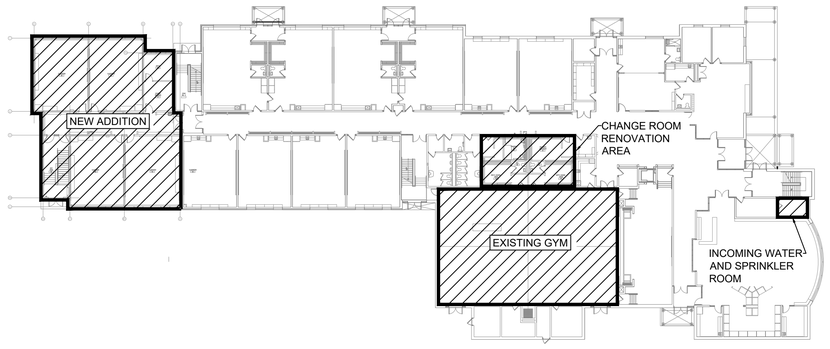
DESIGN BY: SJ/AS	SEAL: LICENSED PROFESSIONAL ENGINEER S. J. B. A. JAGUMAGE 100225530 NOV. 11, 2026 PROVINCE OF ONTARIO
DRAWN BY: JMM	
CHECKED BY: SJ	
DATE: JUNE 2026	
SCALE: AS NOTED	
PROJECT NO: 25062	DRAWING NO: S503



2
M-100

SECOND FLOOR KEY PLAN

Scale: NOT TO SCALE



1
M-100

FIRST FLOOR KEY PLAN

Scale: NOT TO SCALE

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

1. ALL NEW MECHANICAL EQUIPMENT AND SERVICES INCLUDING PIPING AND DUCTWORK ARE TO BE SEISMICALLY RESTRAINED AS PER SECTION 20 05 15 OF SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
2. RETAIN AND PAY FOR SERVICES OF AN EXPERIENCED SEISMIC CONSULTANT WHO IS A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION OF THE WORK AND A MEMBER IN GOOD STANDING OF A PROFESSIONAL ENGINEERS ASSOCIATION IN THE JURISDICTION OF THE WORK.

DEMOLITION LEGEND

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

MECHANICAL DRAWING LIST

DRAWING NO.	DRAWING NAME
M100	DRAWING LIST, SYMBOL LIST, AND KEY PLANS
M200	UNDERGROUND DRAINAGE PLAN
M201	FIRST FLOOR PLAN - PLUMBING
M202	SECOND FLOOR PLAN - PLUMBING
M203	ROOF PLAN - PLUMBING
M251	FIRST FLOOR PLAN - FIRE PROTECTION
M252	SECOND FLOOR PLAN - FIRE PROTECTION
M301	FIRST FLOOR PLAN - HVAC
M302	SECOND FLOOR PLAN - HVAC
M303	ROOF PLAN - HVAC
M304	EXISTING MECHANICAL ROOM PLANS - HVAC
M310	SECOND FLOOR BOILER ROOM PLAN - HVAC PIPING - DEMO
M311	FIRST FLOOR PLAN - HVAC PIPING
M312	SECOND FLOOR PLAN - HVAC PIPING
M313	SECOND FLOOR BOILER ROOM PLAN - HVAC PIPING - NEW
M314	EXISTING MECHANICAL ROOM PLAN - HVAC PIPING
M315	EXISTING ROOF PLAN - HVAC PIPING
M401	CHANGE ROOM RENOVATION - DEMO
M402	CHANGE ROOM RENOVATION - NEW
M410	EXISTING GYM MODIFICATIONS
M500	CONTROL DIAGRAMS #1
M600	MECHANICAL - TYPICAL DETAILS #1
M601	MECHANICAL - TYPICAL DETAILS #2
M602	MECHANICAL - TYPICAL DETAILS #3
M603	MECHANICAL - TYPICAL DETAILS #4
M610	MECHANICAL EQUIPMENT DETAILS
M620	HEATING WATER FLOW DIAGRAM
M700	MECHANICAL SCHEDULES #1
M701	MECHANICAL SCHEDULES #2

GENERAL NOTES

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

DUCTWORK

SYMBOL	DESCRIPTION
	SUPPLY AIR DUCT UP & DOWN
	RETURN / EXHAUST AIR DUCT UP & DOWN
	ROUND DUCT UP & DOWN
400W	SQUARE ELBOW WITH TURNING VANES
	DUCTWORK FLEXIBLE CONNECTION
	1" THICK ACOUSTICALLY LINED DUCTWORK
	EXTERNALLY INSULATED DUCTWORK (REFER TO SPECIFICATIONS FOR THICKNESS)
	DUCT CONTINUATION (ROUND & RECTANGULAR)
SFD	COMBINATION SMOKE-FIRE DAMPER IN DUCT
	RISE IN DUCTWORK
	SUPPLY AIR DIFFUSER C/W FLEX DUCT & SPIN ON CONNECTION WITH BALANCING DAMPER
	ROUND CONE DIFFUSER
	SUPPLY / RETURN GRILLE
	DUCTED RETURN / EXHAUST GRILLE
	CEILING RETURN GRILLE - EGG CRATE
F	TOILET EXHAUST FAN
	ROOF MOUNTED MUSHROOM FAN
T	THERMOSTAT
T	TEMPERATURE SENSOR
CO2	CARBON DIOXIDE (CO_2) SENSOR
T CO2	COMBINED TEMPERATURE & CARBON DIOXIDE (CO_2) SENSOR
T H CO2	COMBINED TEMPERATURE, HUMIDITY, & CARBON DIOXIDE (CO_2) SENSOR
H	HUMIDITY SENSOR
S	SWITCH
OS	OCCUPANCY SENSOR
	CO / NOX SENSOR
	CONTROL WIRING
	UNIT HEATER
	WALL FIN HEATER

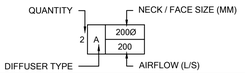
CONTROLS

SYMBOL	DESCRIPTION
	FAN
xA	GRILLE (SUPPLY / RETURN / EXHAUST)
	FILTER BANK WITH DIFFERENTIAL PRESSURE SENSOR
HWS HEATING CWS COOLING	HEATING COIL / COOLING COIL: HOT WATER - HWS/HWR GLYCOL HEATING - GHS/GHR CHILLED WATER - CHS/CHR
M MD DA	MOTORIZED DAMPER
	CONTROL VALVE (2-WAY & 3-WAY)
T-1 H-1 CO2-1 MD DA AS	SENSORS (AIR OR WATER) (TEMPERATURE / HUMIDITY / CARBON DIOXIDE)
FLOW SWITCH AS	FLOW SWITCH (AIR OR WATER)
	CONTROL WIRING
(AI)	ANALOG INPUT
(AO)	ANALOG OUTPUT
(DI)	DIGITAL INPUT
(DO)	DIGITAL OUTPUT
EA	EXHAUST AIR
OA	OUTDOOR AIR
RA	RETURN AIR
SA	SUPPLY AIR

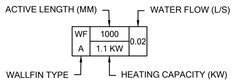
TAGS

SYMBOL	DESCRIPTION
TAG-1	EQUIPMENT TAG
	AIRFLOW DIRECTION
CTE	CONNECT TO EXISTING
OED	OPEN ENDED DUCT
(###)	FLOW IN L/S

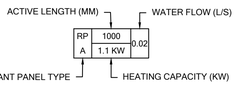
DIFFUSER TAG



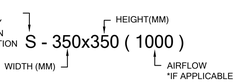
WALLFIN HEATER TAG



RADIANT CEILING PANEL TAG



DUCTWORK



MECHANICAL PIPING

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

PLUMBING AND DRAINAGE

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

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4	ISSUED FOR TENDER	2026-11-11	MH

RDZ ENGINEERS LTD
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

BARRY BRYAN ASSOCIATES

PROJECT:
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ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

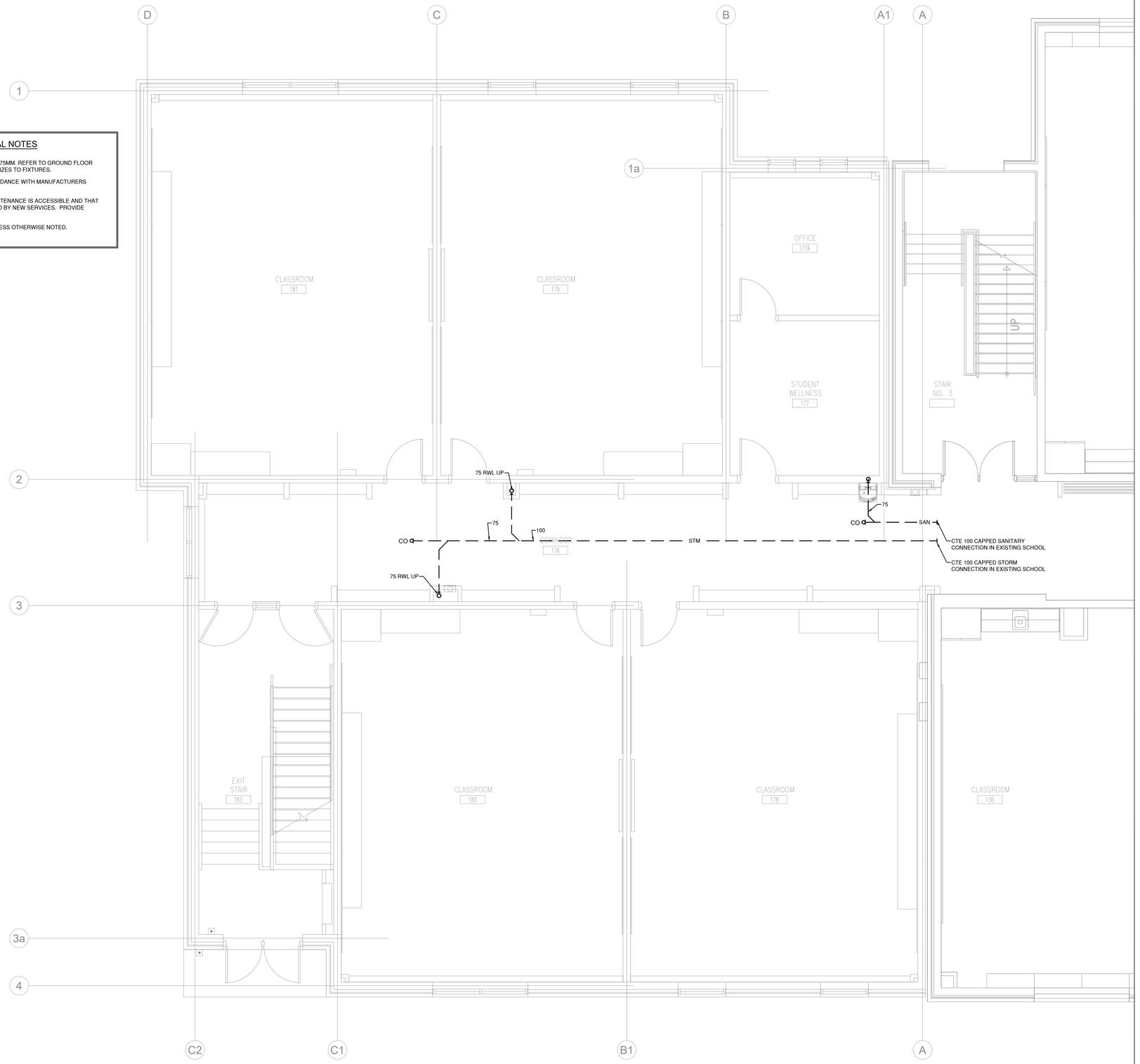
DRAWING:
DRAWING LIST, SYMBOL LIST, AND KEYPLANS

DESIGN BY:
SEAL:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: N.T.S.

PROJECT NO: 25041
DRAWING NO: M100

PLUMBING GENERAL NOTES

1. MINIMUM SIZE FOR ALL BURIED PIPING IS TO BE 75MM. REFER TO GROUND FLOOR PLAN AND SPECIFICATIONS FOR CONNECTION SIZES TO FIXTURES.
2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
3. ENSURE THAT ALL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW SERVICES. PROVIDE ACCESS DOORS/PANELS WHERE REQUIRED.
4. DRAINAGE PIPING SHALL BE SLOPED AT 1% UNLESS OTHERWISE NOTED.



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4	ISSUED FOR TENDER	2026-11-11	MH

NORTH

RDZ ENGINEERS LTD
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

BARRY BRYAN ASSOCIATES

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55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
UNDERGROUND DRAINAGE PLAN

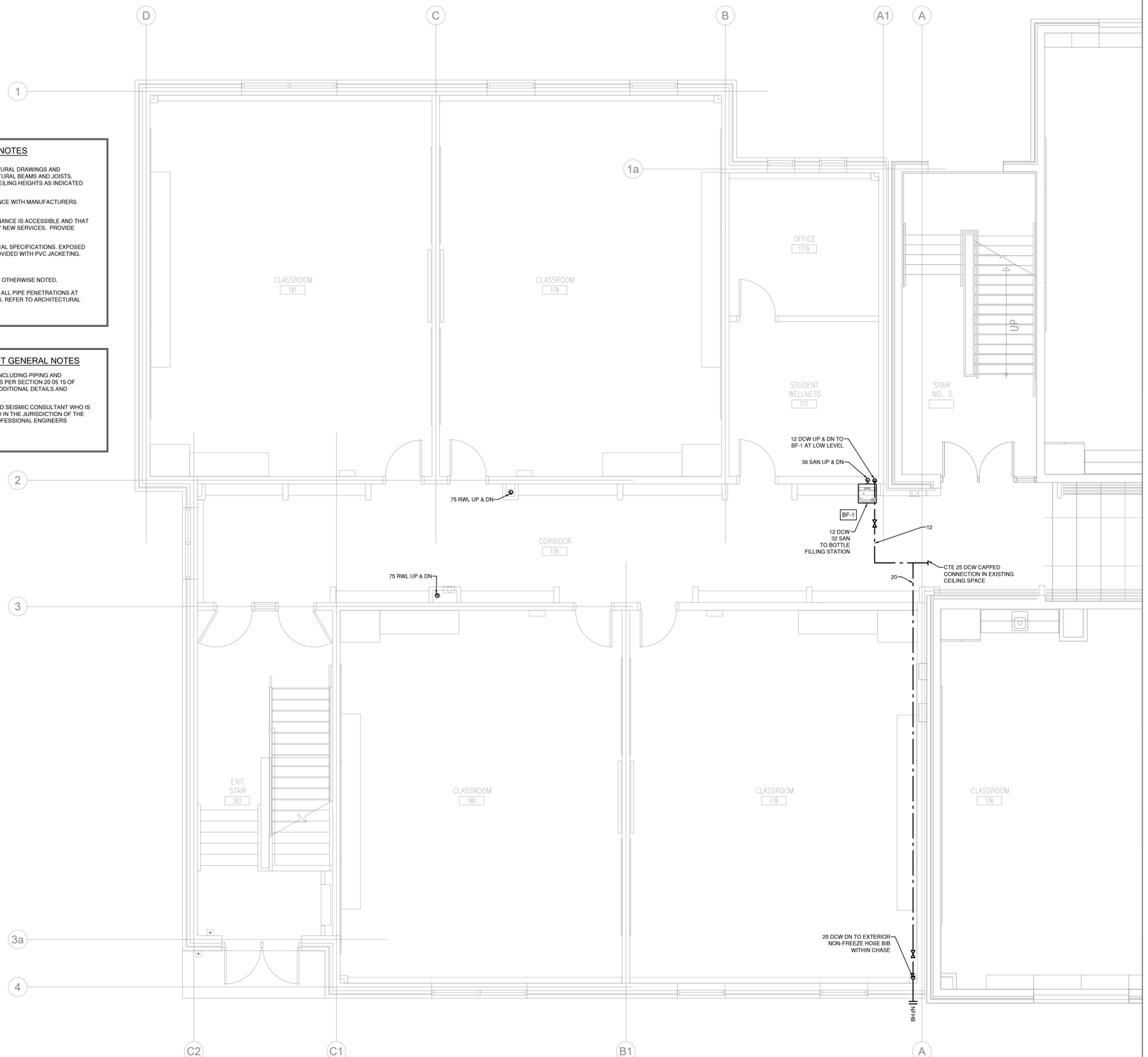
DESIGN BY:
SEAL:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: 1:50
PROJECT NO: **25041**
DRAWING NO: M200

PLUMBING GENERAL NOTES

1. MECHANICAL CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS AND COORDINATE MECHANICAL SERVICES WITH STRUCTURAL BEAMS AND JOISTS. PROVIDE SLEEVING AS NECESSARY TO MAINTAIN CEILING HEIGHTS AS INDICATED ON ARCHITECTURAL DRAWINGS.
2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
3. ENSURE THAT ALL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW SERVICES. PROVIDE ACCESS DOORS/PANELS WHERE REQUIRED.
4. ALL PIPING SHALL BE INSULATED AS PER MECHANICAL SPECIFICATIONS. EXPOSED PIPING INSULATION WITHIN BUILDING SHALL BE PROVIDED WITH PVC JACKETING.
5. PROVIDE ISOLATION VALVES AT EACH FIXTURE.
6. DRAINAGE PIPING SHALL BE SLOPED AT 1% UNLESS OTHERWISE NOTED.
7. PROVIDE FIRESTOPPING AND SMOKE SEALANT FOR ALL PIPE PENETRATIONS AT FIRE/SMOKE SEPARATIONS AS PER SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS FIRE/SMOKE RATINGS.

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

1. ALL NEW MECHANICAL EQUIPMENT AND SERVICES INCLUDING PIPING AND DUCTWORK ARE TO BE SEISMICALLY RESTRAINED AS PER SECTION 20 05 15 OF SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
2. RETAIN AND PAY FOR SERVICES OF AN EXPERIENCED SEISMIC CONSULTANT WHO IS A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION OF THE WORK AND A MEMBER IN GOOD STANDING OF A PROFESSIONAL ENGINEERS ASSOCIATION IN THE JURISDICTION OF THE WORK.



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CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR 60% REVIEW	2026-08-14	MH
2	ISSUED FOR 80% COSTING	2026-08-28	MH
3	ISSUED FOR 90% REVIEW	2026-10-28	MH
4	ISSUED FOR PERMIT	2026-11-03	MH
4	ISSUED FOR TENDER	2026-11-11	MH

RDZ ENGINEERS LTD
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST
CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
FIRST FLOOR PLAN - PLUMBING

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: 1:50
SEAL:

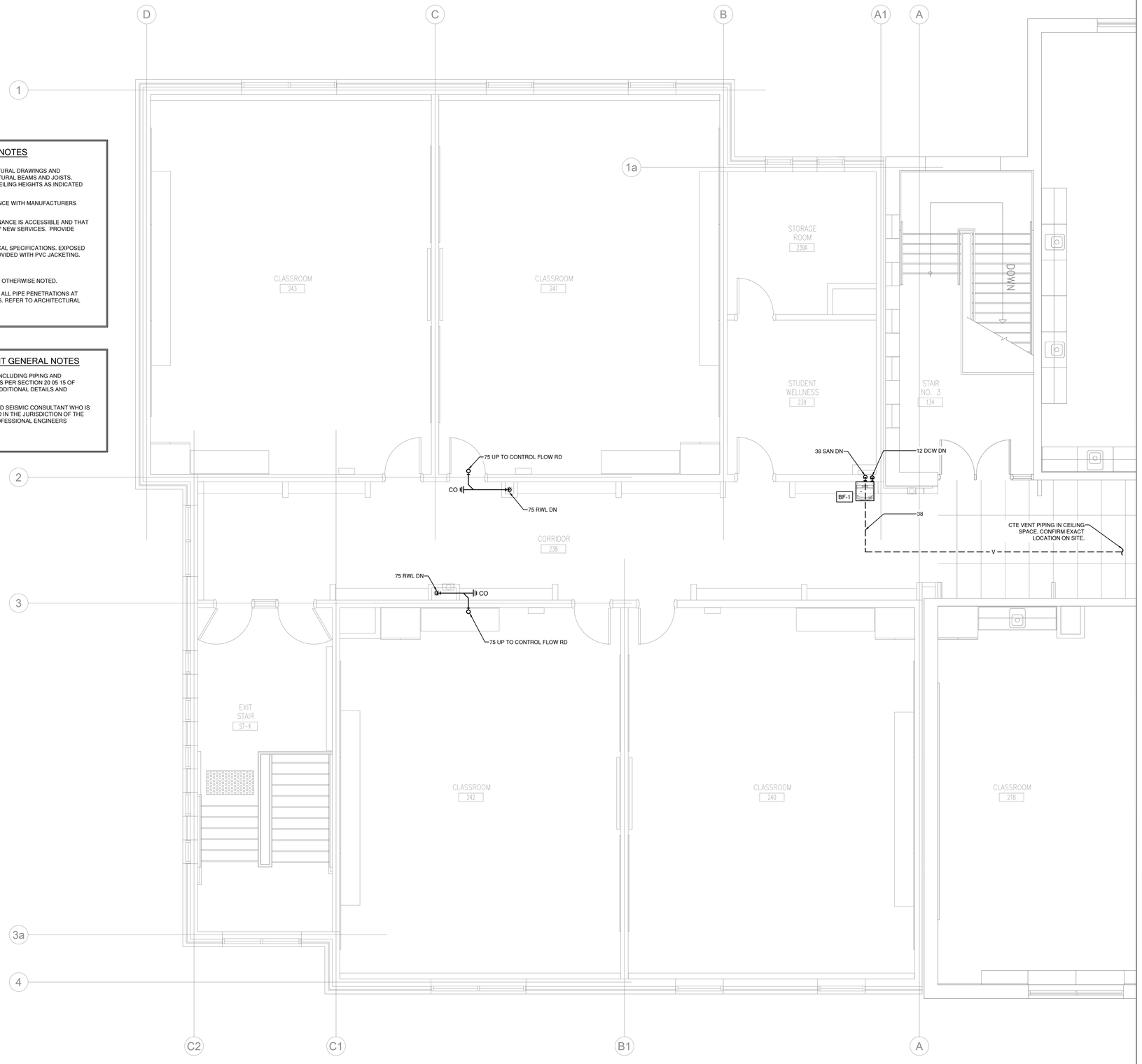
PROJECT NO: 25041
DRAWING NO: M201

PLUMBING GENERAL NOTES

1. MECHANICAL CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS AND COORDINATE MECHANICAL SERVICES WITH STRUCTURAL BEAMS AND JOISTS. PROVIDE SLEEVING AS NECESSARY TO MAINTAIN CEILING HEIGHTS AS INDICATED ON ARCHITECTURAL DRAWINGS.
2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
3. ENSURE THAT ALL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW SERVICES. PROVIDE ACCESS DOORS/PANELS WHERE REQUIRED.
4. ALL PIPING SHALL BE INSULATED AS PER MECHANICAL SPECIFICATIONS. EXPOSED PIPING INSULATION WITHIN BUILDING SHALL BE PROVIDED WITH PVC JACKETING.
5. PROVIDE ISOLATION VALVES AT EACH FIXTURE.
6. DRAINAGE PIPING SHALL BE SLOPED AT 1% UNLESS OTHERWISE NOTED.
7. PROVIDE FIRESTOPPING AND SMOKE SEALANT FOR ALL PIPE PENETRATIONS AT FIRE/SMOKE SEPARATIONS AS PER SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS FIRE/SMOKE RATINGS.

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

1. ALL NEW MECHANICAL EQUIPMENT AND SERVICES INCLUDING PIPING AND DUCTWORK ARE TO BE SEISMICALLY RESTRAINED AS PER SECTION 20 05 15 OF SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
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4	ISSUED FOR TENDER	2026-11-11	MH

NORTH

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BARRY BRYAN ASSOCIATES

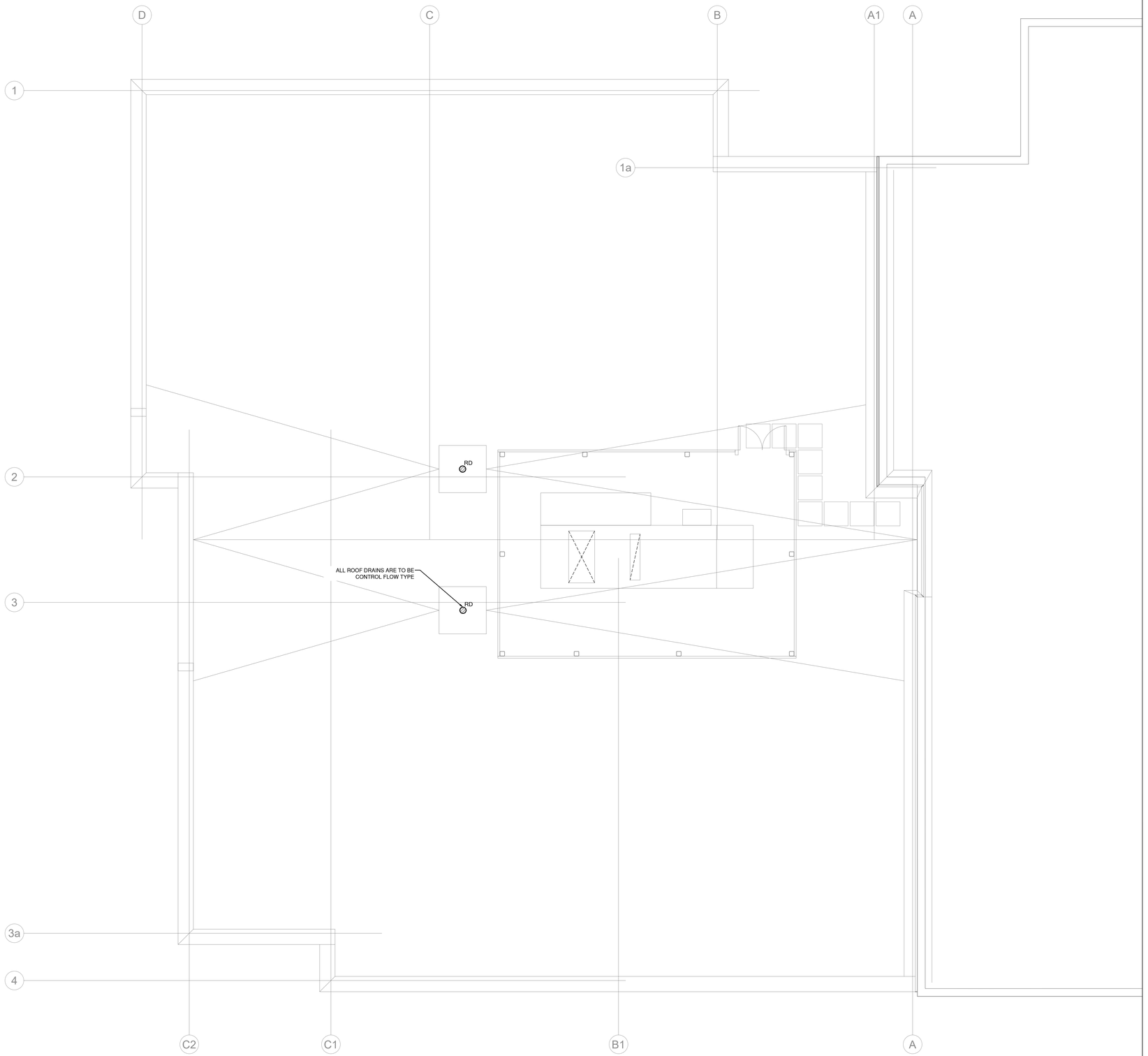
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
SECOND FLOOR PLAN - PLUMBING

DESIGN BY:	SEAL:
DRAWN BY:	
CHECKED BY:	
DATE: Nov 2026	
SCALE: 1:50	
PROJECT NO: 25041	DRAWING NO: M202



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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
ROOF PLAN - PLUMBING

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: 1:50
SEAL:

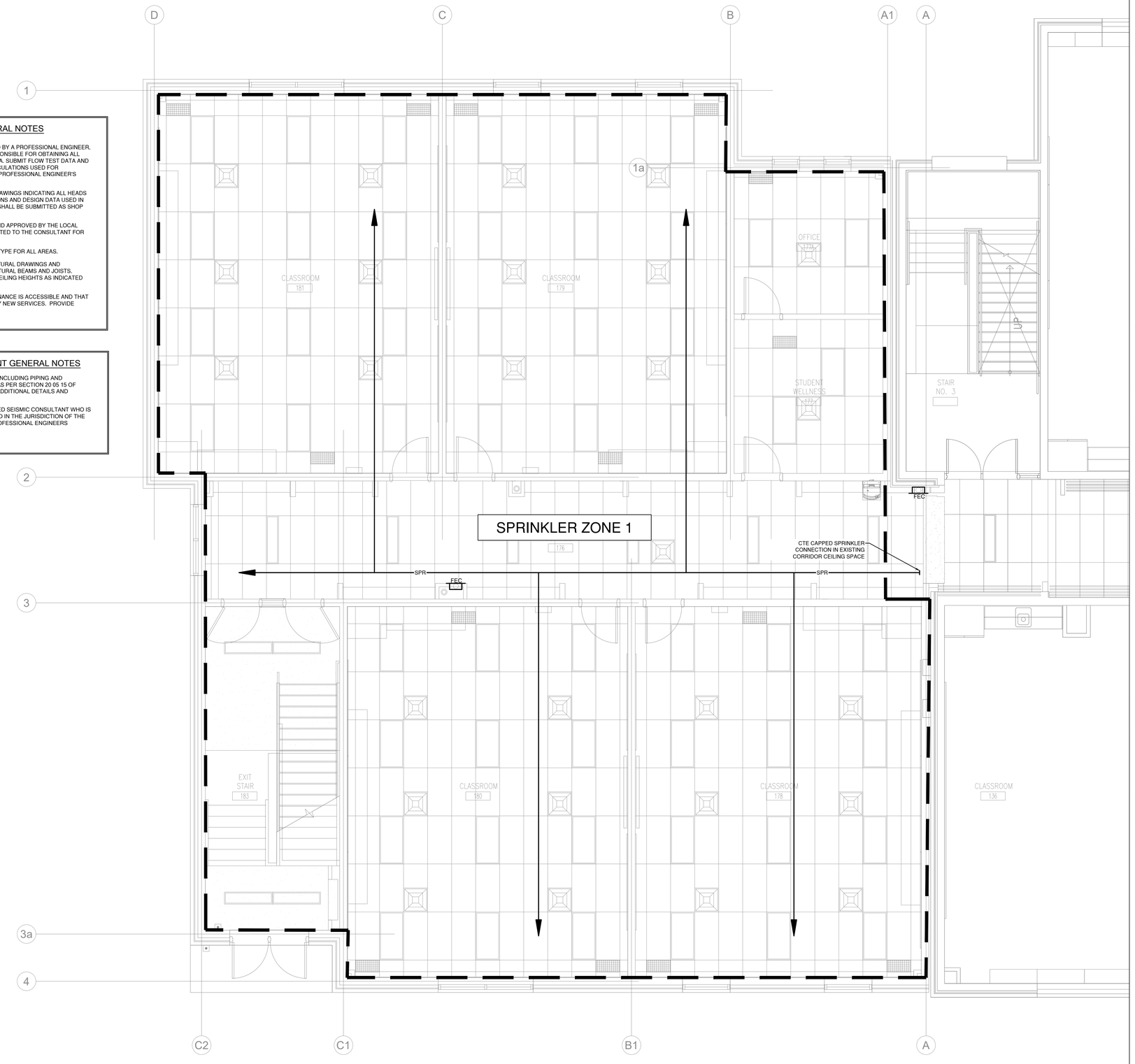
PROJECT NO: 25041
DRAWING NO: M203

FIRE PROTECTION GENERAL NOTES

1. SPRINKLER WORK SHALL BE HYDRAULICALLY SIZED BY A PROFESSIONAL ENGINEER, BASED ON THE PROCEDURES OF NFPA-13. BE RESPONSIBLE FOR OBTAINING ALL REQUIRED WATER FLOW TEST AND PRESSURE DATA. SUBMIT FLOW TEST DATA AND CALCULATIONS USED, WITH SHOP DRAWINGS. CALCULATIONS USED FOR HYDRAULICALLY SIZED SYSTEMS SHALL BEAR THE PROFESSIONAL ENGINEER'S SIGNED STAMP.
2. COMPLETE AND DIMENSIONED SYSTEM LAYOUT DRAWINGS INDICATING ALL HEADS AND EQUIPMENT, PIPE SIZING AND ALL CALCULATIONS AND DESIGN DATA USED IN PREPARING THE LAYOUTS AND SIZING THE PIPING SHALL BE SUBMITTED AS SHOP DRAWINGS.
3. SHOP DRAWINGS MUST BE FIRST SUBMITTED TO AND APPROVED BY THE LOCAL GOVERNING AUTHORITIES PRIOR TO BEING SUBMITTED TO THE CONSULTANT FOR REVIEW.
4. REFER TO SPECIFICATIONS FOR SPRINKLER HEAD TYPE FOR ALL AREAS.
5. MECHANICAL CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS AND COORDINATE MECHANICAL SERVICES WITH STRUCTURAL BEAMS AND JOISTS. PROVIDE SLEEVING AS NECESSARY TO MAINTAIN CEILING HEIGHTS AS INDICATED ON ARCHITECTURAL DRAWINGS.
6. ENSURE THAT ALL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW SERVICES. PROVIDE ACCESS DOORS/PANELS WHERE REQUIRED.

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

1. ALL NEW MECHANICAL EQUIPMENT AND SERVICES INCLUDING PIPING AND DUCTWORK ARE TO BE SEISMICALLY RESTRAINED AS PER SECTION 20 05 15 OF SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
2. RETAIN AND PAY FOR SERVICES OF AN EXPERIENCED SEISMIC CONSULTANT WHO IS A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION OF THE WORK AND A MEMBER IN GOOD STANDING OF A PROFESSIONAL ENGINEERS ASSOCIATION IN THE JURISDICTION OF THE WORK.



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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
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4	ISSUED FOR TENDER	2026-11-11	MH

NORTH

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
FIRST FLOOR PLAN - FIRE PROTECTION

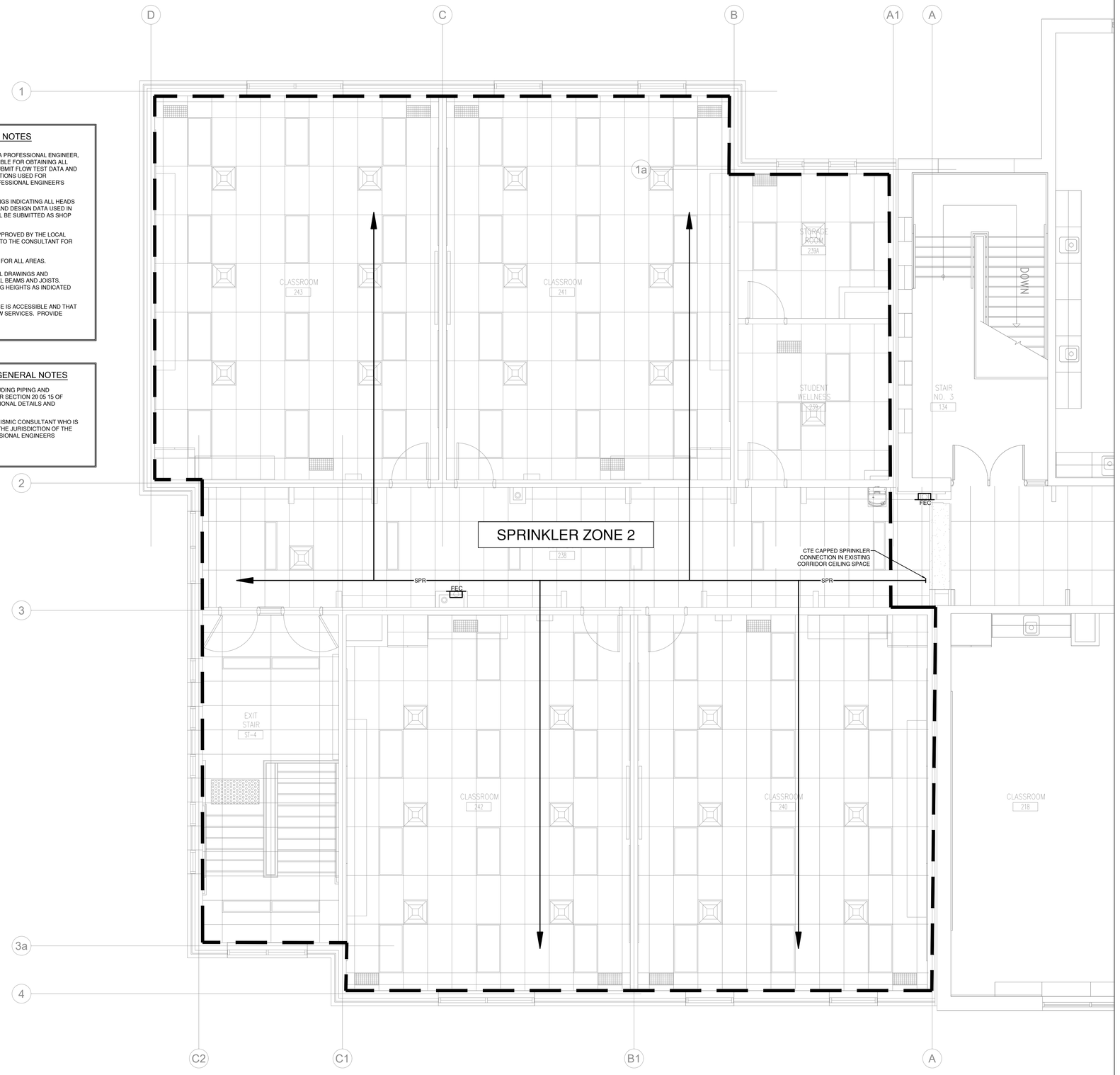
DESIGN BY:	SEAL:
DRAWN BY:	
CHECKED BY:	
DATE: Nov 2026	
SCALE: 1:50	
PROJECT NO: 25041	DRAWING NO: M251

FIRE PROTECTION GENERAL NOTES

1. SPRINKLER WORK SHALL BE HYDRAULICALLY SIZED BY A PROFESSIONAL ENGINEER, BASED ON THE PROCEDURES OF NFPA-13. BE RESPONSIBLE FOR OBTAINING ALL REQUIRED WATER FLOW TEST AND PRESSURE DATA. SUBMIT FLOW TEST DATA AND CALCULATIONS USED, WITH SHOP DRAWINGS. CALCULATIONS USED FOR HYDRAULICALLY SIZED SYSTEMS SHALL BEAR THE PROFESSIONAL ENGINEER'S SIGNED STAMP.
2. COMPLETE AND DIMENSIONED SYSTEM LAYOUT DRAWINGS INDICATING ALL HEADS AND EQUIPMENT, PIPE SIZING AND ALL CALCULATIONS AND DESIGN DATA USED IN PREPARING THE LAYOUTS AND SIZING THE PIPING SHALL BE SUBMITTED AS SHOP DRAWINGS.
3. SHOP DRAWINGS MUST BE FIRST SUBMITTED TO AND APPROVED BY THE LOCAL GOVERNING AUTHORITIES PRIOR TO BEING SUBMITTED TO THE CONSULTANT FOR REVIEW.
4. REFER TO SPECIFICATIONS FOR SPRINKLER HEAD TYPE FOR ALL AREAS.
5. MECHANICAL CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS AND COORDINATE MECHANICAL SERVICES WITH STRUCTURAL BEAMS AND JOISTS. PROVIDE SLEEVING AS NECESSARY TO MAINTAIN CEILING HEIGHTS AS INDICATED ON ARCHITECTURAL DRAWINGS.
6. ENSURE THAT ALL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW SERVICES. PROVIDE ACCESS DOORS/PANELS WHERE REQUIRED.

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

1. ALL NEW MECHANICAL EQUIPMENT AND SERVICES INCLUDING PIPING AND DUCTWORK ARE TO BE SEISMICALLY RESTRAINED AS PER SECTION 20 05 15 OF SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
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4	ISSUED FOR TENDER	2026-11-11	MH

NORTH

RDZ ENGINEERS LTD
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email: info@rdzeng.ca

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
SECOND FLOOR PLAN - FIRE PROTECTION

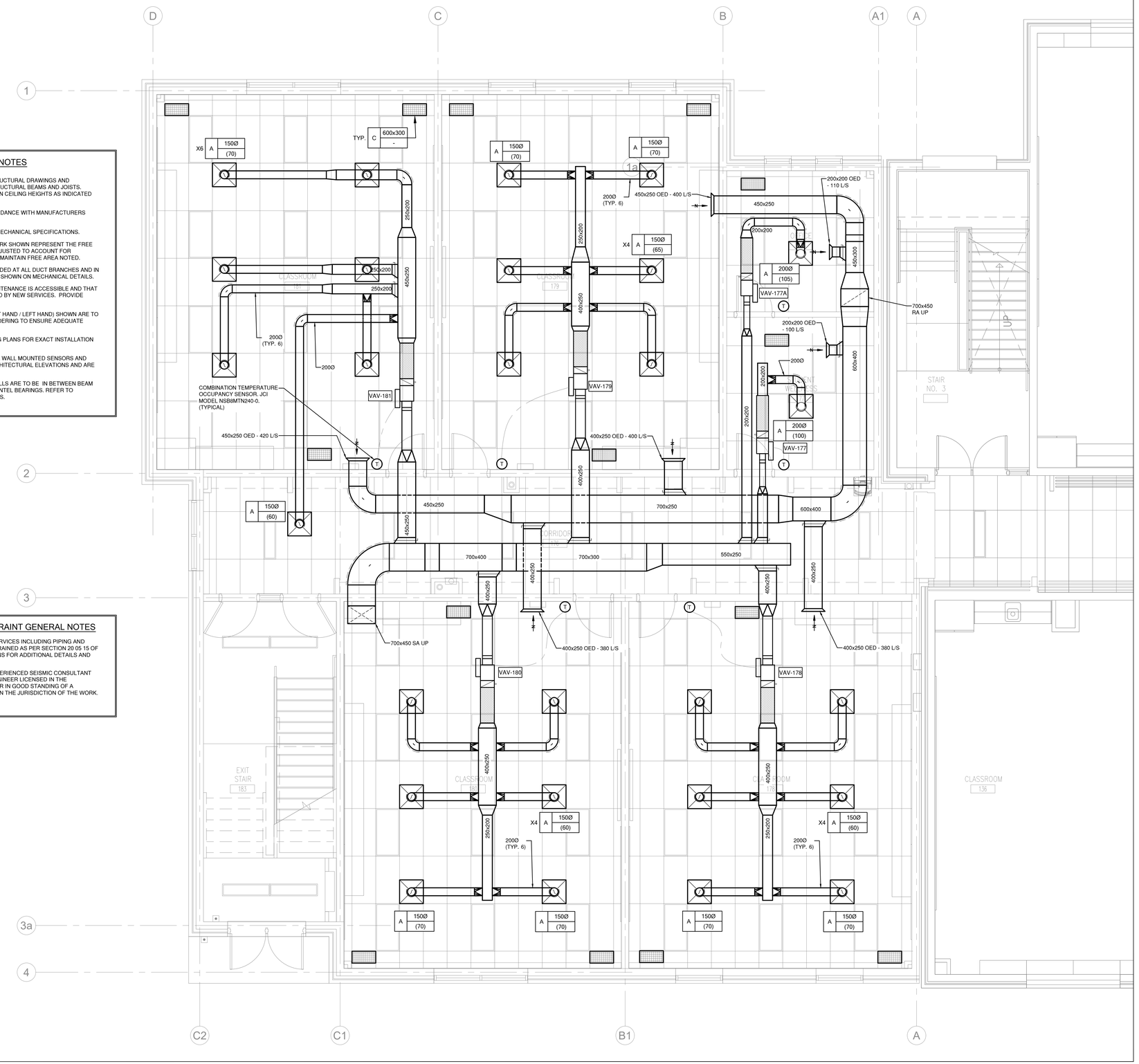
DESIGN BY:	SEAL:
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CHECKED BY:	
DATE: Nov 2026	
SCALE: 1:50	
PROJECT NO: **25041**	DRAWING NO: M252

HVAC GENERAL NOTES

1. MECHANICAL CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS AND COORDINATE MECHANICAL SERVICES WITH STRUCTURAL BEAMS AND JOISTS. PROVIDE SLEEVING AS NECESSARY TO MAINTAIN CEILING HEIGHTS AS INDICATED ON ARCHITECTURAL DRAWINGS.
2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
3. ALL DUCTWORK SHALL BE INSULATED AS PER MECHANICAL SPECIFICATIONS.
4. DIMENSIONS OF ACOUSTICALLY LINED DUCTWORK SHOWN REPRESENT THE FREE AREA OF DUCTWORK. DUCT SIZES SHALL BE ADJUSTED TO ACCOUNT FOR THICKNESS OF ACOUSTIC LINING PROVIDED TO MAINTAIN FREE AREA NOTED.
5. MANUAL BALANCING DAMPERS SHALL BE PROVIDED AT ALL DUCT BRANCHES AND IN ALL BRANCHES TO GRILLES AND DIFFUSERS AS SHOWN ON MECHANICAL DETAILS.
6. ENSURE THAT ALL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW SERVICES. PROVIDE ACCESS DOORS/PANELS WHERE REQUIRED.
7. LOCATION OF CONTROLS ON VAV BOXES (RIGHT HAND / LEFT HAND) SHOWN ARE TO BE CONFIRMED BY CONTRACTOR PRIOR TO ORDERING TO ENSURE ADEQUATE ACCESS IS PROVIDED.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT INSTALLATION LOCATIONS OF GRILLES AND DIFFUSERS.
9. INSTALLATION LOCATIONS AND HEIGHTS OF ALL WALL MOUNTED SENSORS AND SWITCHES ARE TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS AND ARE TO BE INSTALLED AS PER LOCAL CODES.
10. DUCT PENETRATIONS THROUGH CORRIDOR WALLS ARE TO BE IN BETWEEN BEAM BEARINGS AND AT LEAST 600MM FROM DOOR LINTEL BEARINGS. REFER TO STRUCTURAL DRAWINGS FOR EXACT LOCATIONS.

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

1. ALL NEW MECHANICAL EQUIPMENT AND SERVICES INCLUDING PIPING AND DUCTWORK ARE TO BE SEISMICALLY RESTRAINED AS PER SECTION 20 05 15 OF SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
2. RETAIN AND PAY FOR SERVICES OF AN EXPERIENCED SEISMIC CONSULTANT WHO IS A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION OF THE WORK AND A MEMBER IN GOOD STANDING OF A PROFESSIONAL ENGINEERS ASSOCIATION IN THE JURISDICTION OF THE WORK.



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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

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4	ISSUED FOR PERMIT	2026-11-03	MH
4	ISSUED FOR TENDER	2026-11-11	MH

NORTH

RDZ ENG
RDZ ENGINEERS LTD
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

BBA
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
FIRST FLOOR PLAN - HVAC

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: 1:50
SEAL:

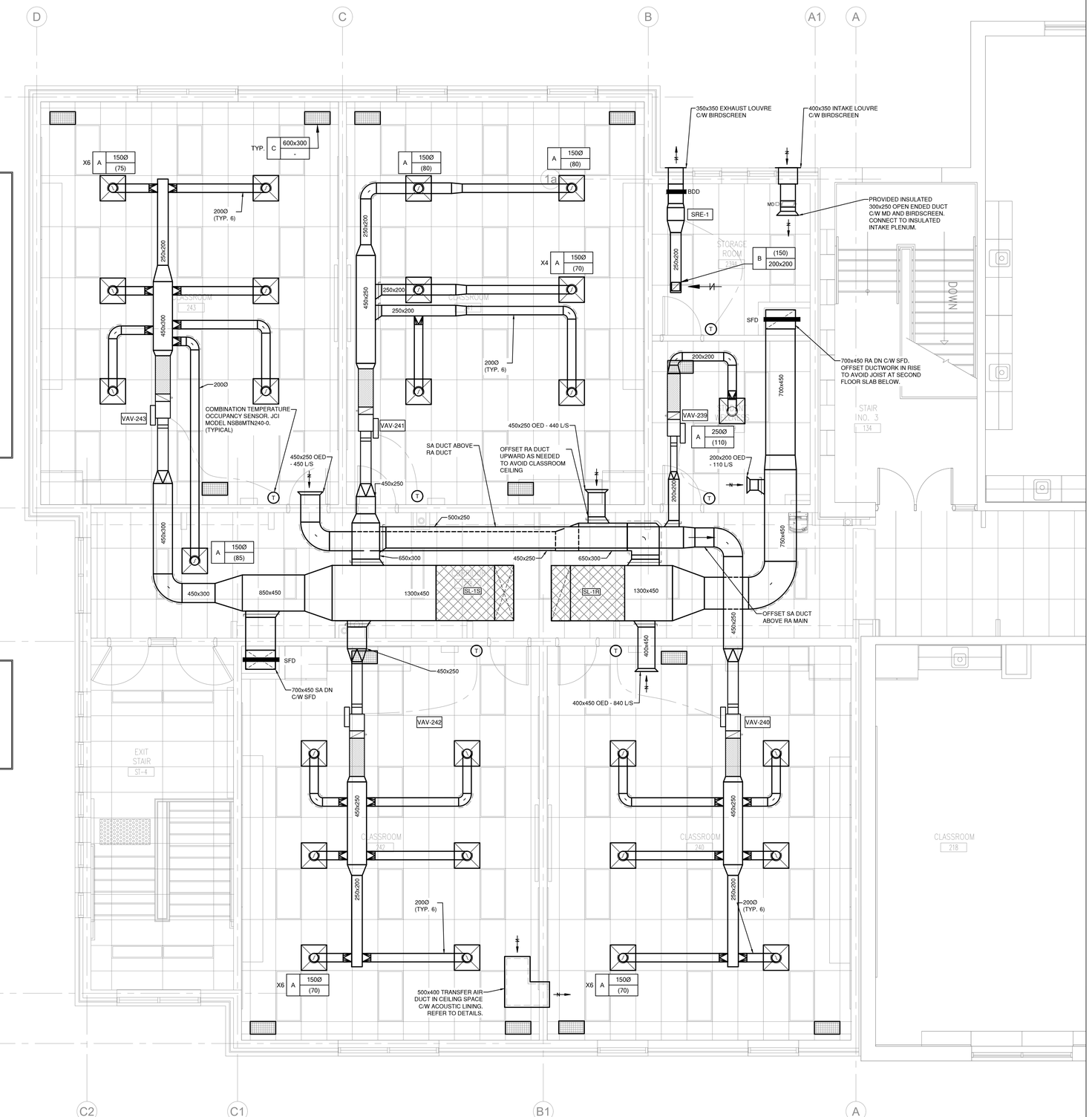
PROJECT NO: 25041
DRAWING NO: M301

HVAC GENERAL NOTES

1. MECHANICAL CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS AND COORDINATE MECHANICAL SERVICES WITH STRUCTURAL BEAMS AND JOISTS. PROVIDE SLEEVING AS NECESSARY TO MAINTAIN CEILING HEIGHTS AS INDICATED ON ARCHITECTURAL DRAWINGS.
2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
3. ALL DUCTWORK SHALL BE INSULATED AS PER MECHANICAL SPECIFICATIONS.
4. DIMENSIONS OF ACOUSTICALLY LINED DUCTWORK SHOWN REPRESENT THE FREE AREA OF DUCTWORK. DUCT SIZES SHALL BE ADJUSTED TO ACCOUNT FOR THICKNESS OF ACOUSTIC LINING PROVIDED TO MAINTAIN FREE AREA NOTED.
5. MANUAL BALANCING DAMPERS SHALL BE PROVIDED AT ALL DUCT BRANCHES AND IN ALL BRANCHES TO GRILLES AND DIFFUSERS AS SHOWN ON MECHANICAL DETAILS.
6. ENSURE THAT ALL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW SERVICES. PROVIDE ACCESS DOORS/PANELS WHERE REQUIRED.
7. LOCATION OF CONTROLS ON VAV BOXES (RIGHT HAND / LEFT HAND) SHOWN ARE TO BE CONFIRMED BY CONTRACTOR PRIOR TO ORDERING TO ENSURE ADEQUATE ACCESS IS PROVIDED.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT INSTALLATION LOCATIONS OF GRILLES AND DIFFUSERS.
9. INSTALLATION LOCATIONS AND HEIGHTS OF ALL WALL MOUNTED SENSORS AND SWITCHES ARE TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS AND ARE TO BE INSTALLED AS PER LOCAL CODES.
10. DUCT PENETRATIONS THROUGH CORRIDOR WALLS ARE TO BE IN BETWEEN BEAM BEARINGS AND AT LEAST 600MM FROM DOOR LINTEL BEARINGS. REFER TO STRUCTURAL DRAWINGS FOR EXACT LOCATIONS.

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

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BBA
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
SECOND FLOOR PLAN - HVAC

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: 1:50
SEAL:

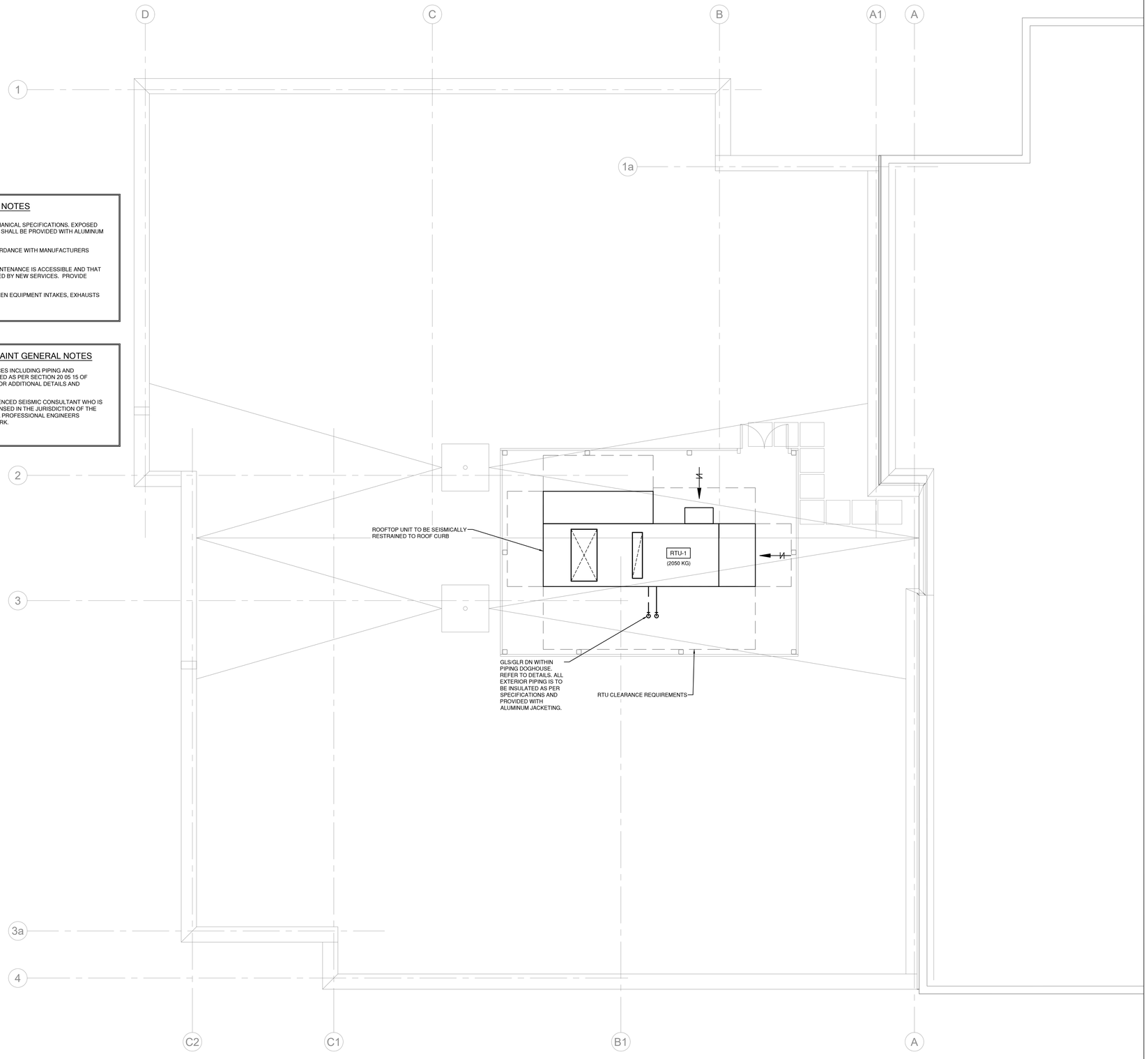
PROJECT NO: **25041**
DRAWING NO: M302

HVAC GENERAL NOTES

1. ALL PIPING SHALL BE INSULATED AS PER MECHANICAL SPECIFICATIONS. EXPOSED PIPING INSULATION OUTSIDE OF THE BUILDING SHALL BE PROVIDED WITH ALUMINUM JACKETING.
2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
3. ENSURE THAT ALL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW SERVICES. PROVIDE ACCESS DOORS/PANELS WHERE REQUIRED.
4. ENSURE THAT REQUIRED CLEARANCES BETWEEN EQUIPMENT INTAKES, EXHAUSTS AND FLUES ARE MAINTAINED.

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

1. ALL NEW MECHANICAL EQUIPMENT AND SERVICES INCLUDING PIPING AND DUCTWORK ARE TO BE SEISMICALLY RESTRAINED AS PER SECTION 20 05 15 OF SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR 60% REVIEW	2026-08-14	MH
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3	ISSUED FOR 90% REVIEW	2026-10-28	MH
4	ISSUED FOR PERMIT	2026-11-03	MH
4	ISSUED FOR TENDER	2026-11-11	MH

NORTH

RDZ ENGINEERS LTD
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
ROOF PLAN - HVAC

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: 1:50
SEAL:

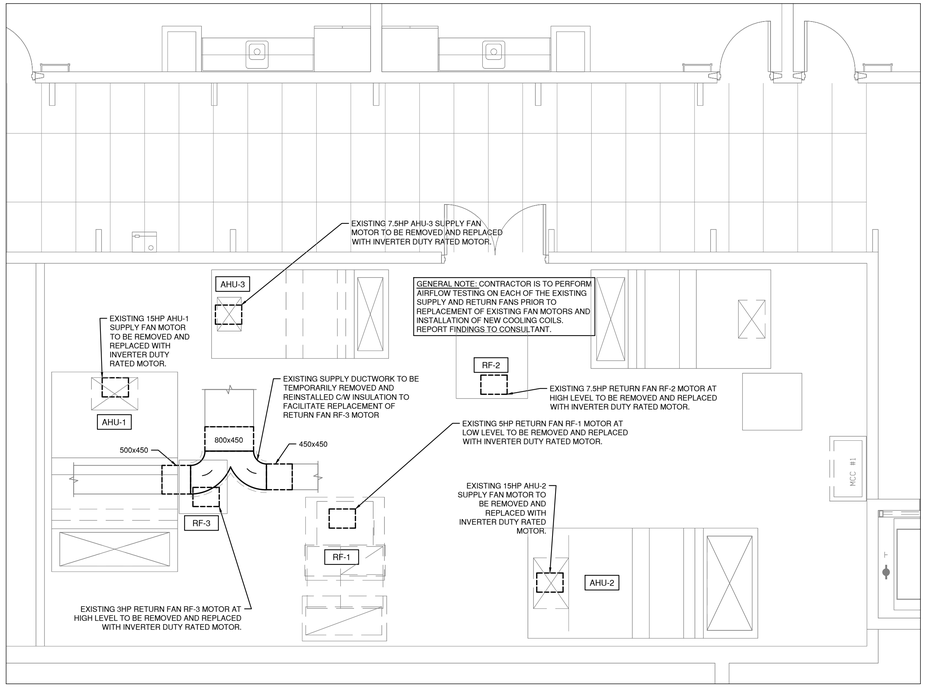
PROJECT NO: **25041**
DRAWING NO: M303

HVAC GENERAL NOTES

1. ENSURE THAT ALL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW SERVICES. PROVIDE ACCESS DOORS/PANELS WHERE REQUIRED.
2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
3. ALL DUCTWORK SHALL BE INSULATED AS PER MECHANICAL SPECIFICATIONS.
4. PROVIDE CONSTRUCTION FILTERS AS PER SPECIFICATIONS FOR ALL HVAC EQUIPMENT DURING TESTING AND CONSTRUCTION. THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED.

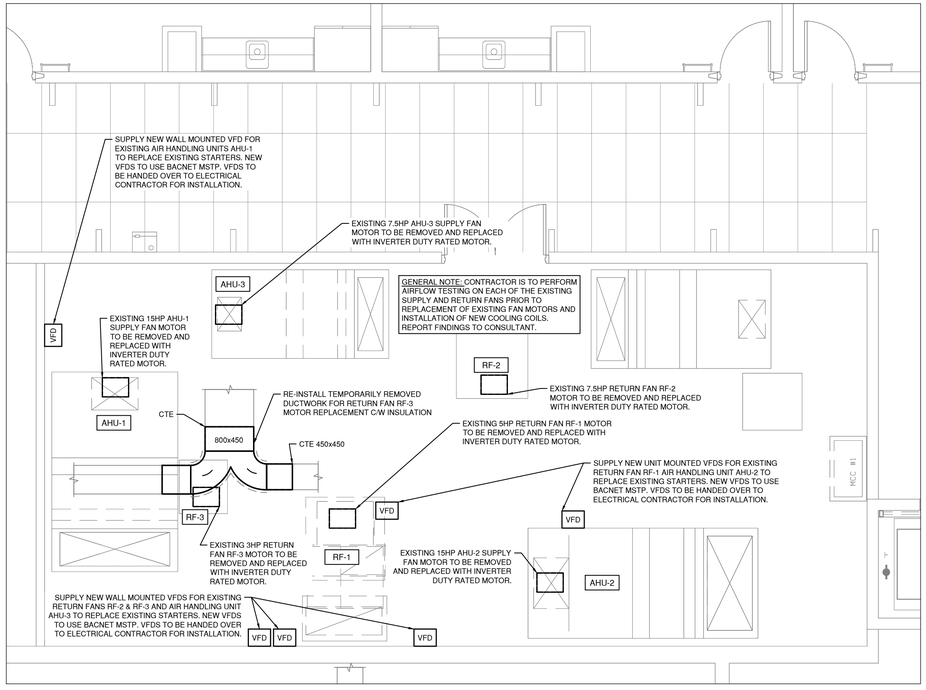
SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

1. ALL NEW MECHANICAL EQUIPMENT AND SERVICES INCLUDING PIPING AND DUCTWORK ARE TO BE SEISMICALLY RESTRAINED AS PER SECTION 20 05 15 OF SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
2. RETAIN AND PAY FOR SERVICES OF AN EXPERIENCED SEISMIC CONSULTANT WHO IS A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION OF THE WORK AND A MEMBER IN GOOD STANDING OF A PROFESSIONAL ENGINEERS ASSOCIATION IN THE JURISDICTION OF THE WORK.



1 M-304 EXISTING MECHANICAL ROOM PLAN - HVAC - DEMOLITION

Scale: 1:50



2 M-304 EXISTING MECHANICAL ROOM PLAN - HVAC - NEW WORK

Scale: 1:50

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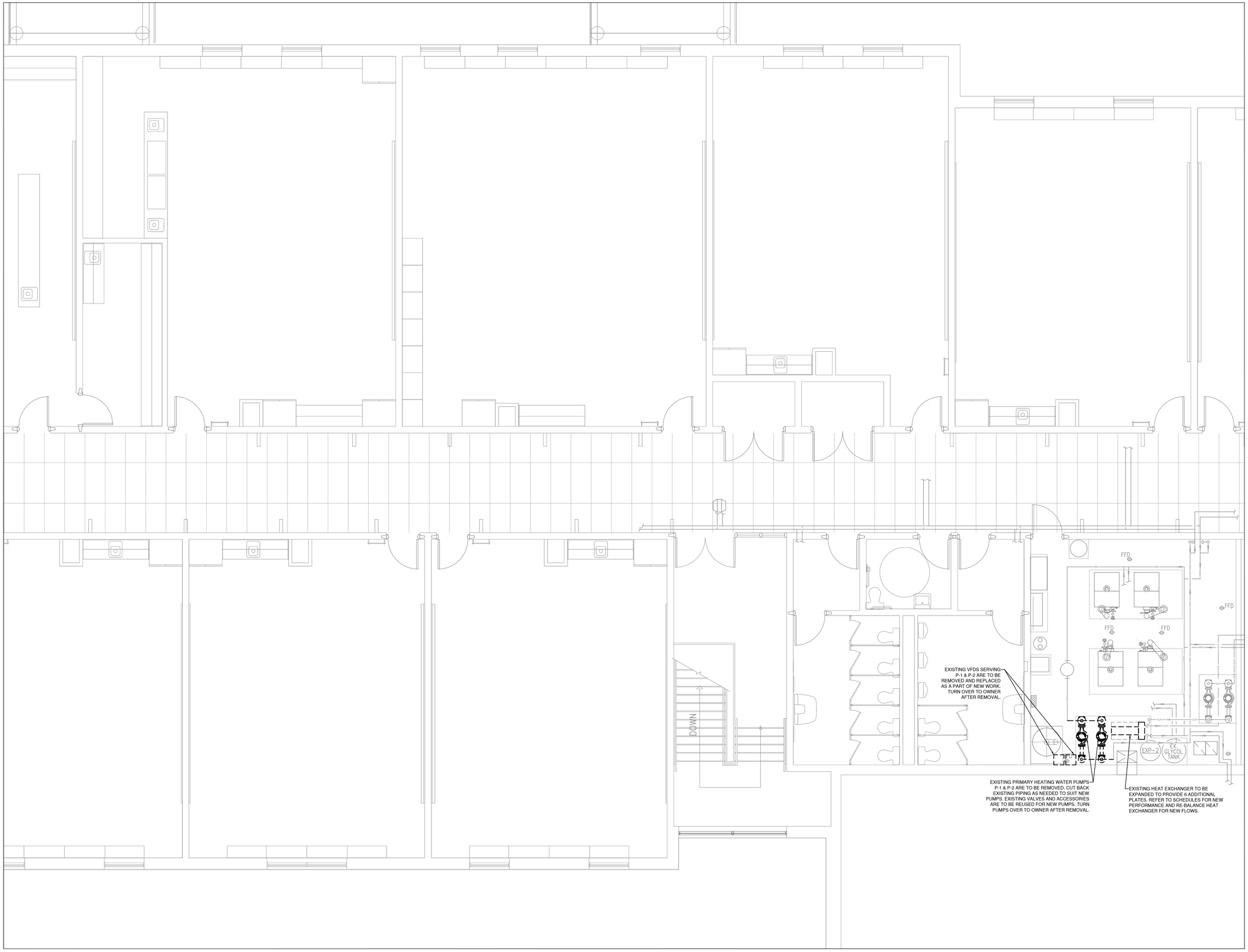
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
EXISTING MECHANICAL ROOM PLANS - HVAC

DESIGN BY:	SEAL:
DRAWN BY:	
CHECKED BY:	
DATE: Nov 2026	
SCALE: 1:50	
PROJECT NO: 25041	DRAWING NO: M304



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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
SECOND FLOOR BOILER ROOM PLAN - HVAC PIPING - DEMO

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: 1:50
SEAL:

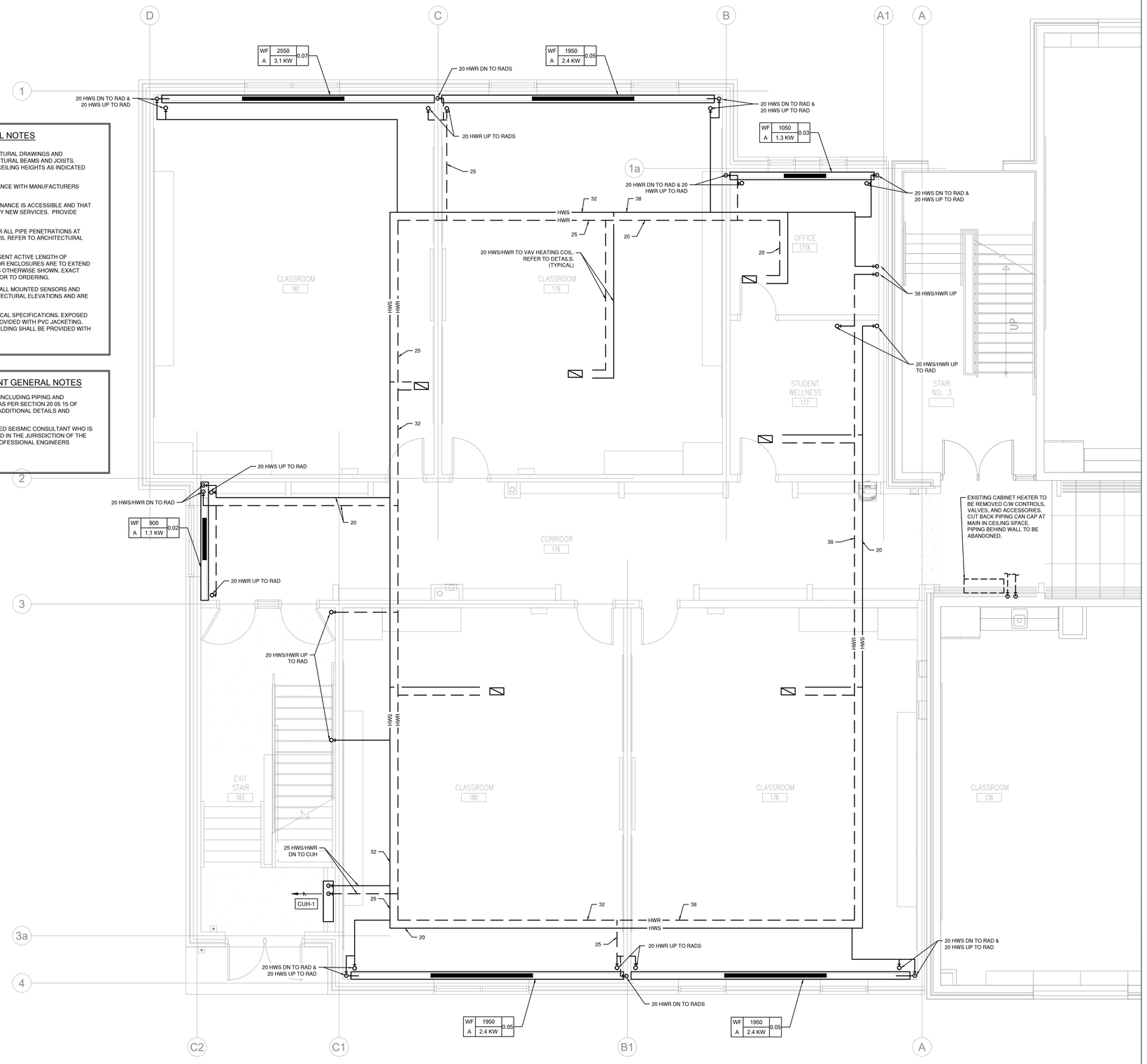
PROJECT NO: **25041**
DRAWING NO: M310

HVAC PIPING GENERAL NOTES

1. MECHANICAL CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS AND COORDINATE MECHANICAL SERVICES WITH STRUCTURAL BEAMS AND JOISTS. PROVIDE SLEEVING AS NECESSARY TO MAINTAIN CEILING HEIGHTS AS INDICATED ON ARCHITECTURAL DRAWINGS.
2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
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4. PROVIDE FIRESTOPPING AND SMOKE SEALANT FOR ALL PIPE PENETRATIONS AT FIRE/SMOKE SEPARATIONS AS PER SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS FIRE/SMOKE RATINGS.
5. LENGTHS OF WALLFIN RADIATORS SHOWN REPRESENT ACTIVE LENGTH OF RADIATORS. UNLESS OTHERWISE NOTED, RADIATOR ENCLOSURES ARE TO EXTEND THE FULL WIDTH OF WALL WITHIN SPACES UNLESS OTHERWISE SHOWN. EXACT LENGTHS TO BE CONFIRMED BY CONTRACTOR PRIOR TO ORDERING.
6. INSTALLATION LOCATIONS AND HEIGHTS OF ALL WALL MOUNTED SENSORS AND SWITCHES ARE TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS AND ARE TO BE INSTALLED AS PER LOCAL CODES.
7. ALL PIPING SHALL BE INSULATED AS PER MECHANICAL SPECIFICATIONS. EXPOSED PIPING INSULATION WITHIN BUILDING SHALL BE PROVIDED WITH PVC JACKETING. EXPOSED PIPING INSULATION OUTSIDE OF THE BUILDING SHALL BE PROVIDED WITH ALUMINUM JACKETING.

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

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BARRY BRYAN ASSOCIATES

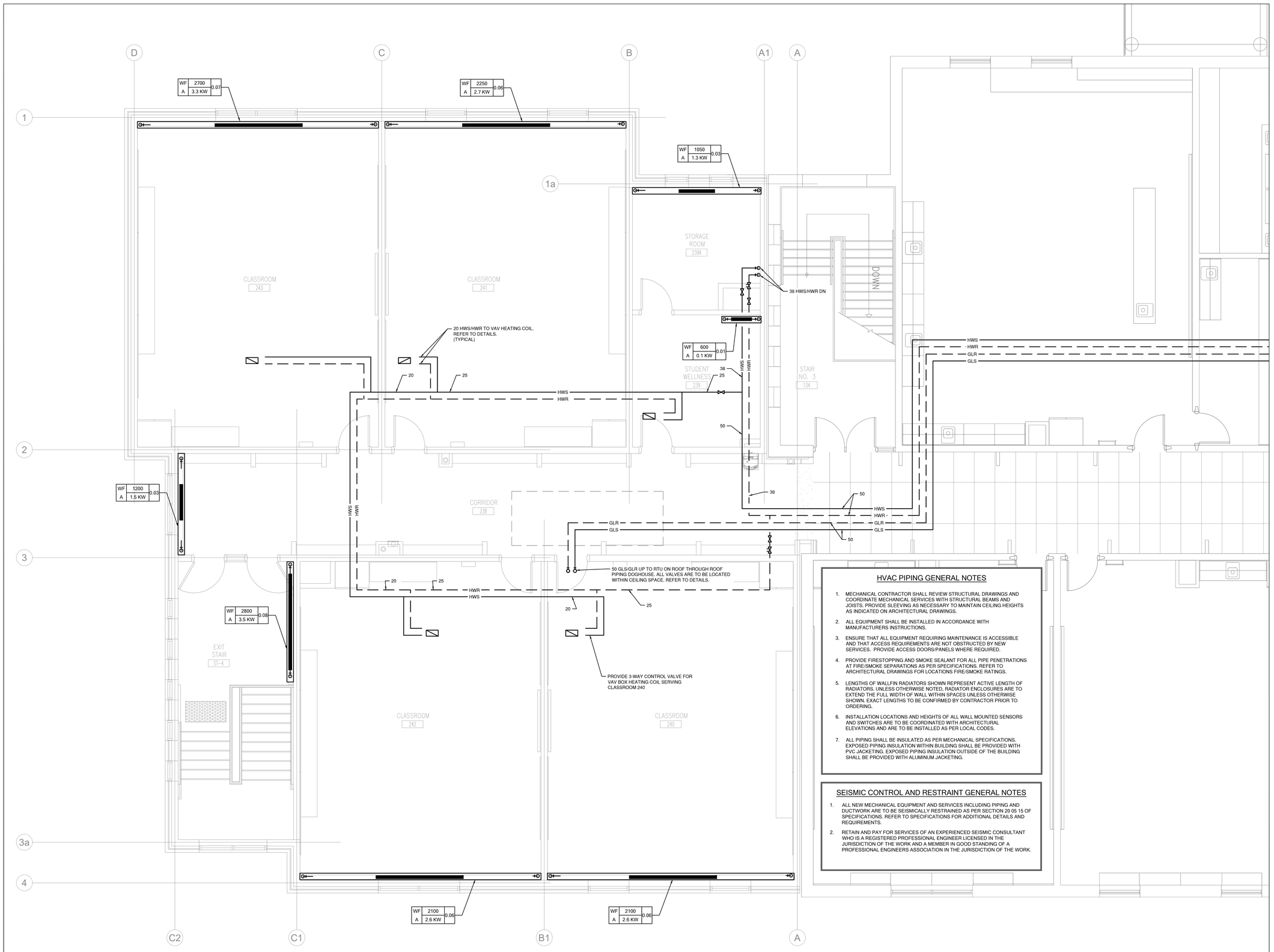
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
FIRST FLOOR PLAN - HVAC PIPING

DESIGN BY:	SEAL:
DRAWN BY:	
CHECKED BY:	
DATE: Nov 2026	
SCALE: 1:50	
PROJECT NO: 25041	DRAWING NO: M311



HVAC PIPING GENERAL NOTES

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BBA
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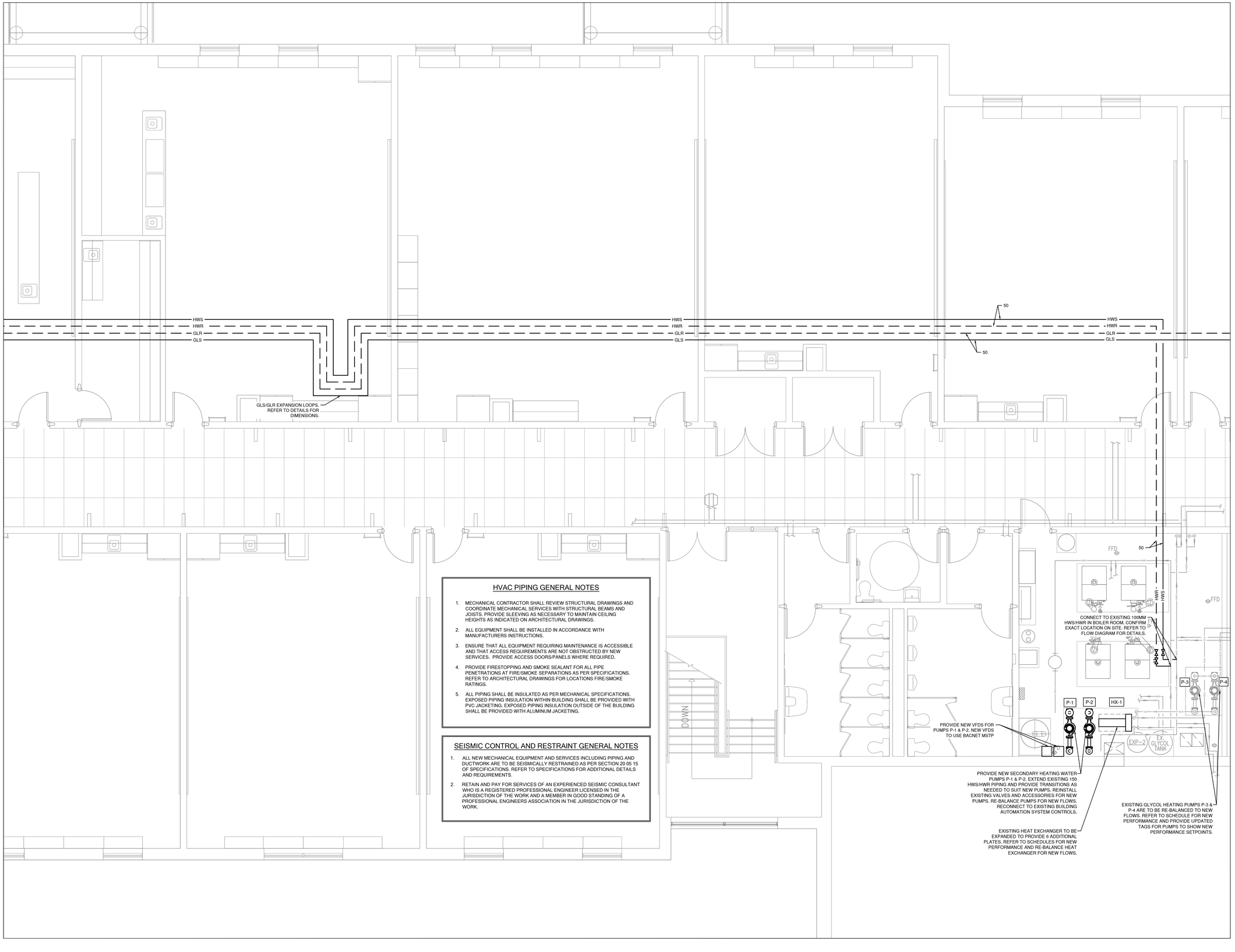
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
SECOND FLOOR PLAN - HVAC PIPING

DESIGN BY:	SEAL:
DRAWN BY:	
CHECKED BY:	
DATE: Nov 2026	
SCALE: 1:50	
PROJECT NO: 25041	DRAWING NO: M312



HVAC PIPING GENERAL NOTES

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NORTH

RDZ ENGINEERS LTD
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
SECOND FLOOR BOILER ROOM PLAN - HVAC PIPING - NEW

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: 1:50
SEAL:

PROJECT NO: **25041**
DRAWING NO: M313

HVAC PIPING GENERAL NOTES

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6. MECHANICAL CONTRACTOR RESPONSIBLE FOR REFRIGERANT LINE SIZING AND EQUIVALENT LENGTH TO MEET THE PERFORMANCE OF EQUIPMENT AND TSSA REQUIREMENT. INCLUDE ALL ACCESSORIES REQUIRED TO MEET THE MANUFACTURER'S RECOMMENDATION AND SPECIFIED PERFORMANCE.

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

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50

GLS
GLR

AHU-3
CC-3

NOTE: ALL WORK RELATED TO CONDENSING UNITS AND COOLING COILS FOR EXISTING AIR HANDLING UNITS IS TO BE INCLUDED AS A SEPARATE PRICE.

CONNECT TO EXISTING 100MM GLS/GLR IN MECHANICAL ROOM. CONFIRM EXACT LOCATION ON SITE. REFER TO FLOW DIAGRAM FOR DETAILS.

PROVIDE NEW DX COOLING COIL WITHIN EXISTING AIR HANDLING UNIT SECTION. SITE VERIFY COIL DIMENSIONS. (TYPICAL OF 3)

CC-1
AHU-1
P-4

PROVIDE CONDENSATE DRAIN FROM COOLING COIL SECTION TO ADJACENT FLOOR DRAINS. (TYPICAL OF 3)

CC-2
AHU-2

MCC #1

CONTROLS CONTRACTOR TO UPGRADE EXISTING SUPERVISORY CONTROLLER MODEL NAR55 WITH NEW SNE2200 CONTROLLER. INCLUDE FOR RE-COMMISSIONING OF SYSTEM AND INTEGRATION WITH DCDSB CENTRAL SERVER. CONFIRM EXACT LOCATION OF CONTROLLER ON SITE.

DOWN

REFRIGERANT PIPING OUT TO ROOF THROUGH MECHANICAL ROOM WALL AT HIGH LEVEL TO CU-2

REFRIGERANT PIPING OUT TO ROOF THROUGH MECHANICAL ROOM WALL AT HIGH LEVEL TO CU-1.

REFRIGERANT PIPING OUT TO ROOF THROUGH MECHANICAL ROOM WALL AT HIGH LEVEL TO CU-3

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

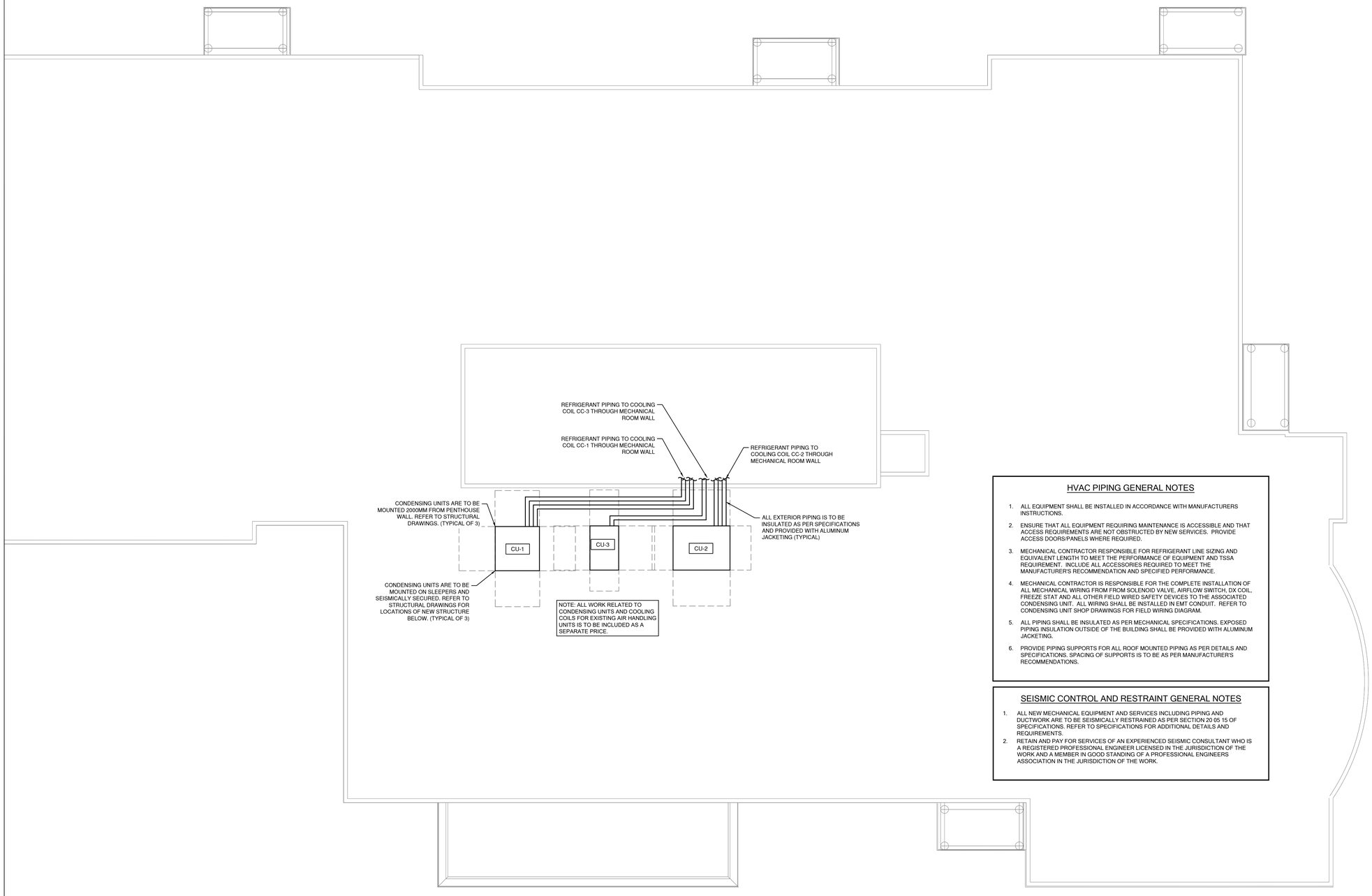
55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
EXISTING MECHANICAL ROOM PLAN - HVAC PIPING

DESIGN BY:
SEAL:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: 1:50

PROJECT NO: 25041
DRAWING NO: M314



HVAC PIPING GENERAL NOTES

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3. MECHANICAL CONTRACTOR RESPONSIBLE FOR REFRIGERANT LINE SIZING AND EQUIVALENT LENGTH TO MEET THE PERFORMANCE OF EQUIPMENT AND TSSA REQUIREMENT. INCLUDE ALL ACCESSORIES REQUIRED TO MEET THE MANUFACTURER'S RECOMMENDATION AND SPECIFIED PERFORMANCE.
4. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL MECHANICAL WIRING FROM FROM SOLENOID VALVE, AIRFLOW SWITCH, DX COIL, FREEZE STAT AND ALL OTHER FIELD WIRED SAFETY DEVICES TO THE ASSOCIATED CONDENSING UNIT. ALL WIRING SHALL BE INSTALLED IN EMT CONDUIT. REFER TO CONDENSING UNIT SHOP DRAWINGS FOR FIELD WIRING DIAGRAM.
5. ALL PIPING SHALL BE INSULATED AS PER MECHANICAL SPECIFICATIONS. EXPOSED PIPING INSULATION OUTSIDE OF THE BUILDING SHALL BE PROVIDED WITH ALUMINUM JACKETING.
6. PROVIDE PIPING SUPPORTS FOR ALL ROOF MOUNTED PIPING AS PER DETAILS AND SPECIFICATIONS. SPACING OF SUPPORTS IS TO BE AS PER MANUFACTURER'S RECOMMENDATIONS.

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

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3	ISSUED FOR 90% REVIEW	2026-10-28	MH
4	ISSUED FOR PERMIT	2026-11-03	MH
4	ISSUED FOR TENDER	2026-11-11	MH

NORTH

RDZ ENGINEERS LTD
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

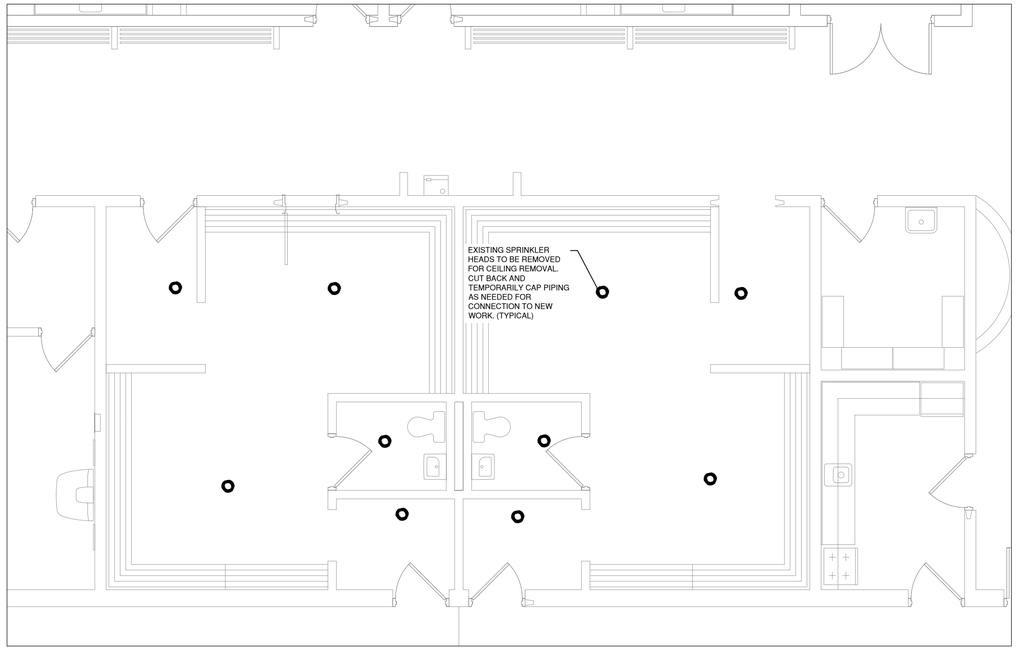
55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
EXISTING ROOF PLAN - HVAC PIPING

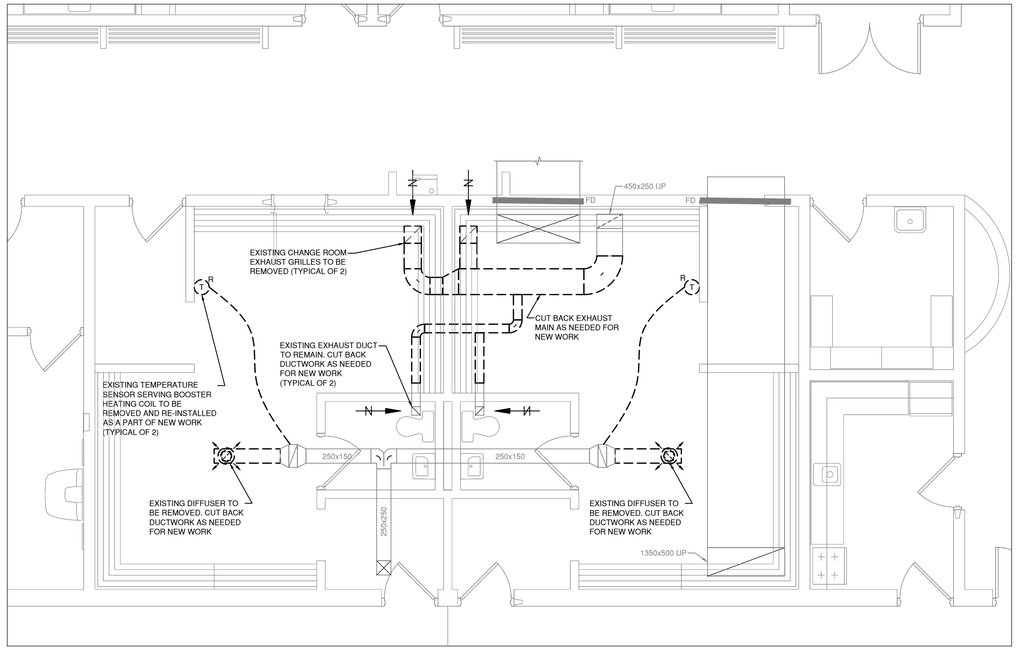
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DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: 1:100
SEAL:

PROJECT NO: 25041
DRAWING NO: M315



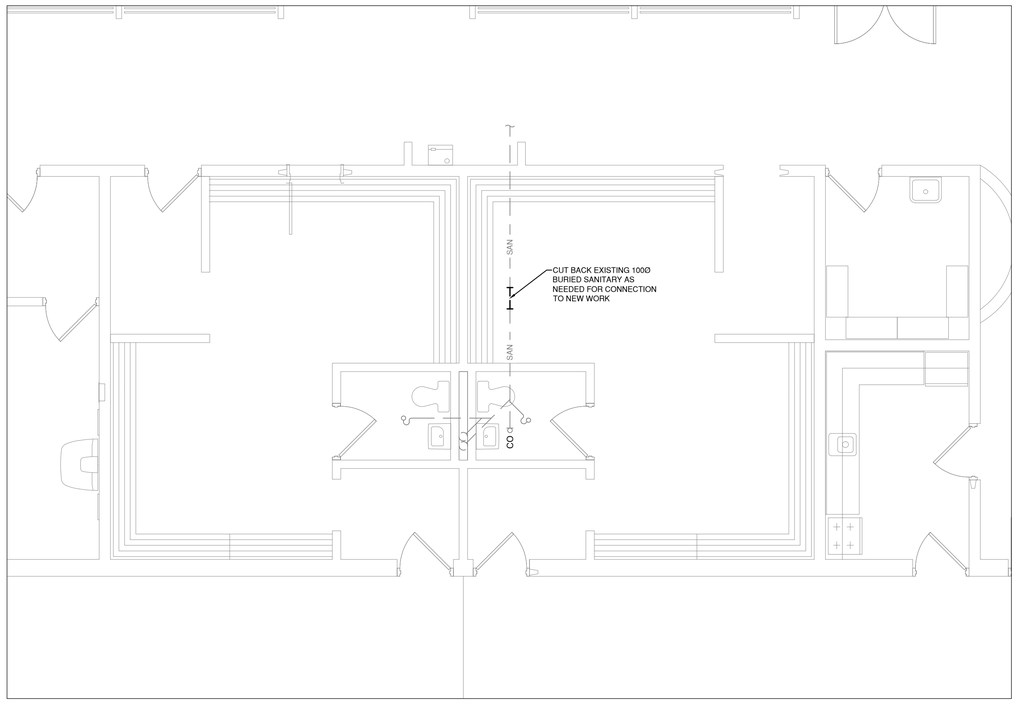
1 M-401 CHANGE ROOM FIRE PROTECTION - DEMO

Scale: 1:50



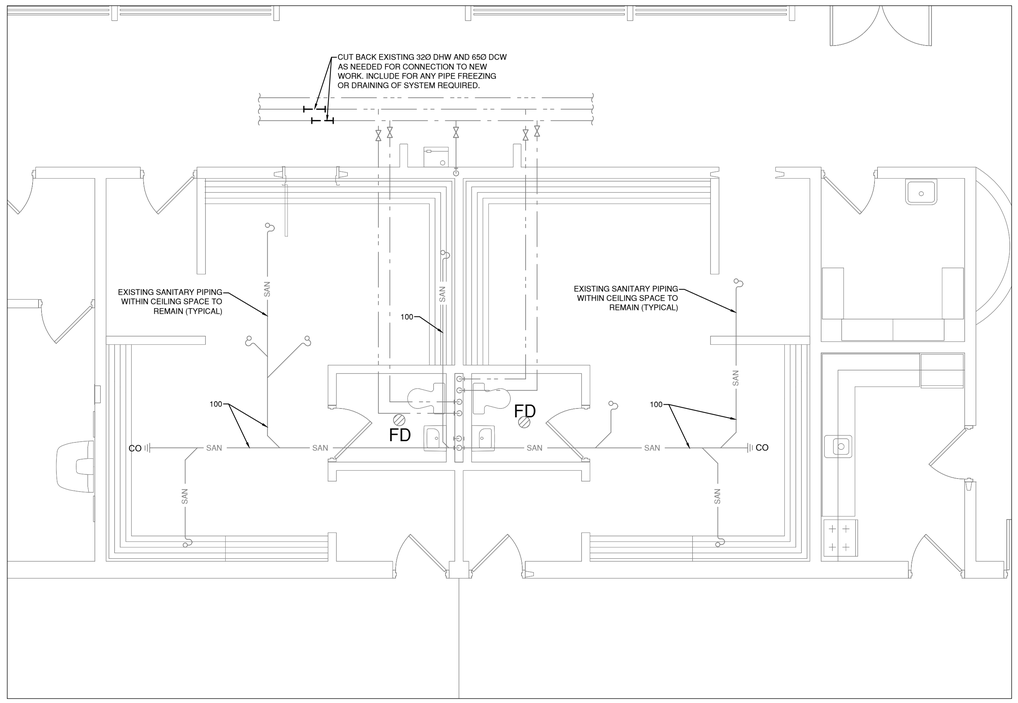
2 M-401 CHANGE ROOM HVAC - DEMO

Scale: 1:50



3 M-401 CHANGE ROOM UNDERGROUND DRAINAGE - DEMO

Scale: 1:50



4 M-401 CHANGE ROOM PLUMBING - DEMO

Scale: 1:50

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BBA
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
CHANGE ROOM RENOVATION - DEMO

DESIGN BY:	SEAL:
DRAWN BY:	
CHECKED BY:	
DATE: Nov 2026	
SCALE: 1:100	
PROJECT NO: 25041	DRAWING NO: M401

HVAC GENERAL NOTES

1. ENSURE THAT ALL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW SERVICES. PROVIDE ACCESS DOORS/PANELS WHERE REQUIRED.
2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
3. ALL DUCTWORK SHALL BE INSULATED AS PER MECHANICAL SPECIFICATIONS.
4. DIMENSIONS OF ACOUSTICALLY LINED DUCTWORK SHOWN REPRESENT THE FREE AREA OF DUCTWORK. DUCT SIZES SHALL BE ADJUSTED TO ACCOUNT FOR THICKNESS OF ACOUSTIC LINING PROVIDED TO MAINTAIN FREE AREA NOTED.
5. MANUAL BALANCING DAMPERS SHALL BE PROVIDED AT ALL DUCT BRANCHES AND IN ALL BRANCHES TO GRILLES AND DIFFUSERS AS SHOWN ON MECHANICAL DETAILS.
6. PROVIDE CONSTRUCTION FILTERS AS PER SPECIFICATIONS FOR ALL HVAC EQUIPMENT DURING TESTING AND CONSTRUCTION. THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED.
7. INSTALLATION LOCATIONS AND HEIGHTS OF ALL WALL MOUNTED SENSORS AND SWITCHES ARE TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS AND ARE TO BE INSTALLED AS PER LOCAL CODES.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT INSTALLATION LOCATIONS OF GRILLES AND DIFFUSERS.

PLUMBING GENERAL NOTES

1. PROVIDE FIRESTOPPING AND SMOKE SEALANT FOR ALL PIPE PENETRATIONS AT FIRE/SMOKE SEPARATIONS AS PER SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS FIRE/SMOKE RATINGS.
2. DRAINAGE PIPING SHALL BE SLOPED AT 1% UNLESS OTHERWISE NOTED.
3. PROVIDE FULL VENTING SYSTEM IN ACCORDANCE WITH OBC PART 7. COORDINATE ALL VENT TERMINATION POINTS TO MAINTAIN ADEQUATE CLEARANCE FROM MECHANICAL INTAKE OPENINGS.
4. ALL PIPING SHALL BE INSULATED AS PER MECHANICAL SPECIFICATIONS. EXPOSED PIPING INSULATION WITHIN BUILDING SHALL BE PROVIDED WITH PVC JACKETING.
5. REFER TO MECHANICAL SPECIFICATIONS FOR PLUMBING FIXTURE REQUIREMENTS.
6. TERMINATE 20MM CONDENSATE DRAINS OVER FUNNEL FLOOR DRAINS C/W AIR GAP OF 25MM.
7. CONDENSATE DRAINS TO BE METALLIC UNTIL TERMINATION. PLASTIC TUBING WILL NOT BE ACCEPTED.
8. PROVIDE TRAP SEAL PRIMING TO ALL P-TRAPS.
9. ENSURE ALL VALVES ARE LOCATED IN ACCESSIBLE AREAS.
10. PROVIDE COVERING FOR EXISTING FLOOR DRAINS PRIOR TO DEMOLITION TO PROTECT THEM DURING CONSTRUCTION. REMOVE COVERS AND CLEAN FLOOR DRAINS WHEN CONSTRUCTION IS COMPLETE.

HVAC PIPING GENERAL NOTES

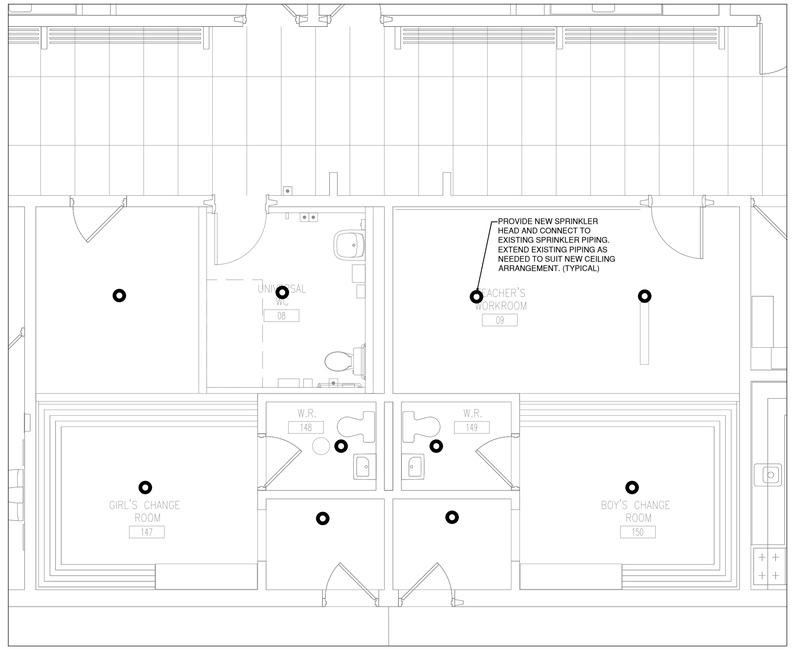
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2. LENGTHS OF RADIANT CEILING PANELS SHOWN REPRESENT ACTIVE LENGTH OF RADIATORS. GENERALLY, CEILING PANELS EXTEND FOR THE FULL LENGTH OF THE ADJACENT WALL. EXACT LENGTHS TO BE CONFIRMED BY CONTRACTOR PRIOR TO ORDERING.
3. INSTALLATION LOCATIONS AND HEIGHTS OF ALL WALL MOUNTED SENSORS AND SWITCHES ARE TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS AND ARE TO BE INSTALLED AS PER LOCAL CODES.
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5. ENSURE ALL VALVES ARE LOCATED IN ACCESSIBLE AREAS.

FIRE PROTECTION GENERAL NOTES

1. SPRINKLER WORK SHALL BE HYDRAULICALLY SIZED BY A PROFESSIONAL ENGINEER, BASED ON THE PROCEDURES OF NFPA-13. BE RESPONSIBLE FOR OBTAINING ALL REQUIRED WATER FLOW TEST AND PRESSURE DATA. SUBMIT FLOW TEST DATA AND CALCULATIONS USED, WITH SHOP DRAWINGS. CALCULATIONS USED FOR HYDRAULICALLY SIZED SYSTEMS SHALL BEAR THE PROFESSIONAL ENGINEER'S SIGNED STAMP.
2. COMPLETE AND DIMENSIONED SYSTEM LAYOUT DRAWINGS INDICATING ALL HEADS AND EQUIPMENT, PIPE SIZING AND ALL CALCULATIONS AND DESIGN DATA USED IN PREPARING THE LAYOUTS AND SIZING THE PIPING SHALL BE SUBMITTED AS SHOP DRAWINGS.
3. SHOP DRAWINGS MUST BE FIRST SUBMITTED TO AND APPROVED BY THE LOCAL GOVERNING AUTHORITIES PRIOR TO BEING SUBMITTED TO THE CONSULTANT FOR REVIEW.
4. REFER TO SPECIFICATIONS FOR SPRINKLER HEAD TYPE FOR ALL AREAS.
5. MECHANICAL CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS AND COORDINATE MECHANICAL SERVICES WITH STRUCTURAL BEAMS AND JOISTS. PROVIDE SLEEVING AS NECESSARY TO MAINTAIN CEILING HEIGHTS AS INDICATED ON ARCHITECTURAL DRAWINGS.
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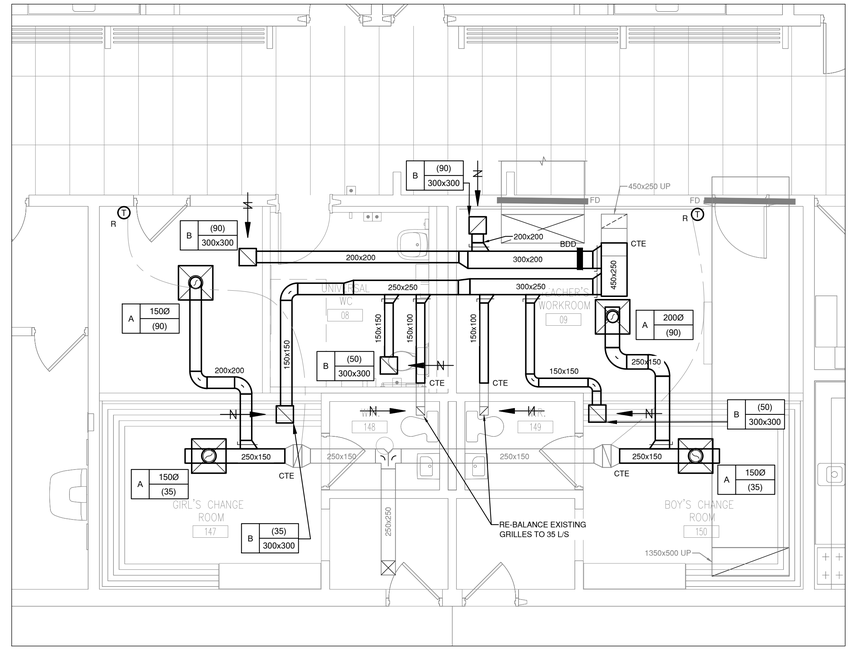
SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

1. ALL NEW MECHANICAL EQUIPMENT AND SERVICES INCLUDING PIPING AND DUCTWORK ARE TO BE SEISMICALLY RESTRAINED AS PER SECTION 20 05 15 OF SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
2. RETAIN AND PAY FOR SERVICES OF AN EXPERIENCED SEISMIC CONSULTANT WHO IS A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION OF THE WORK AND A MEMBER IN GOOD STANDING OF A PROFESSIONAL ENGINEERS ASSOCIATION IN THE JURISDICTION OF THE WORK.



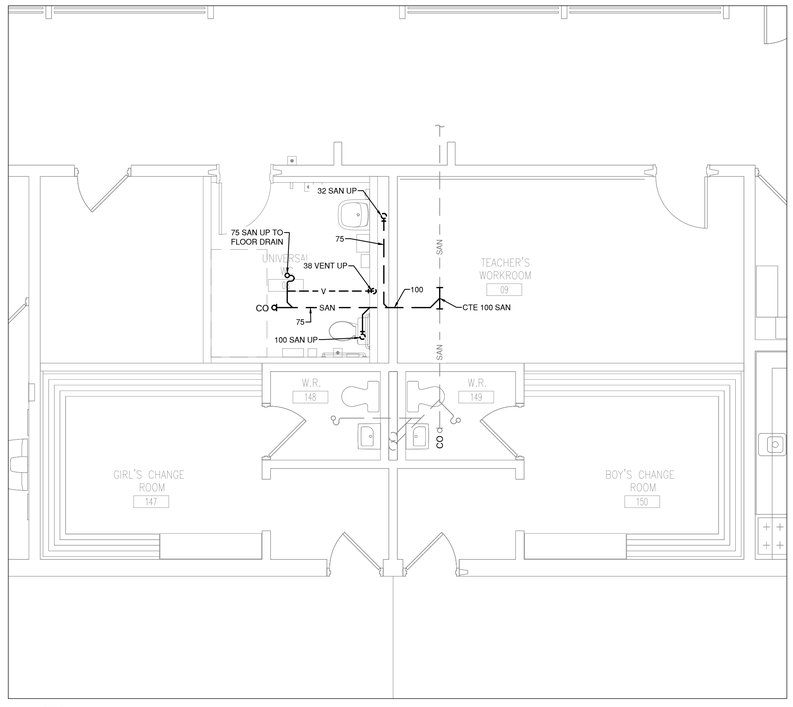
1 M-402 CHANGE ROOM FIRE PROTECTION - NEW

Scale: 1:50



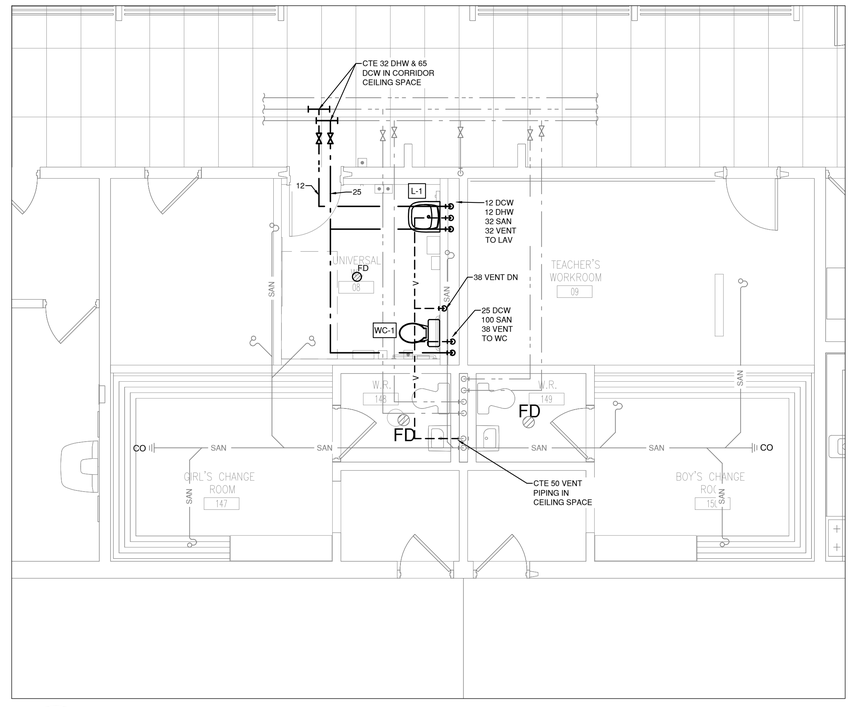
2 M-402 CHANGE ROOM HVAC - NEW

Scale: 1:50



3 M-402 CHANGE ROOM UNDERGROUND DRAINAGE - NEW

Scale: 1:50



4 M-402 CHANGE ROOM PLUMBING - NEW

Scale: 1:50

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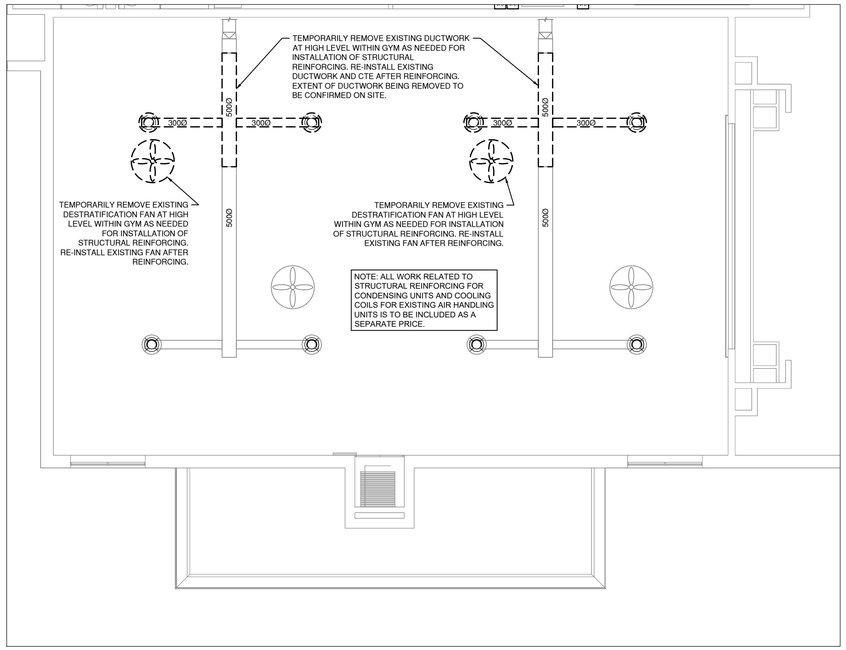
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
CHANGE ROOM RENOVATION - NEW

DESIGN BY:	SEAL:
DRAWN BY:	
CHECKED BY:	
DATE: Nov 2026	
SCALE: 1:100	
PROJECT NO: 25041	DRAWING NO: M402



3 / M-410 GYM MODIFICATIONS - HVAC DUCTWORK

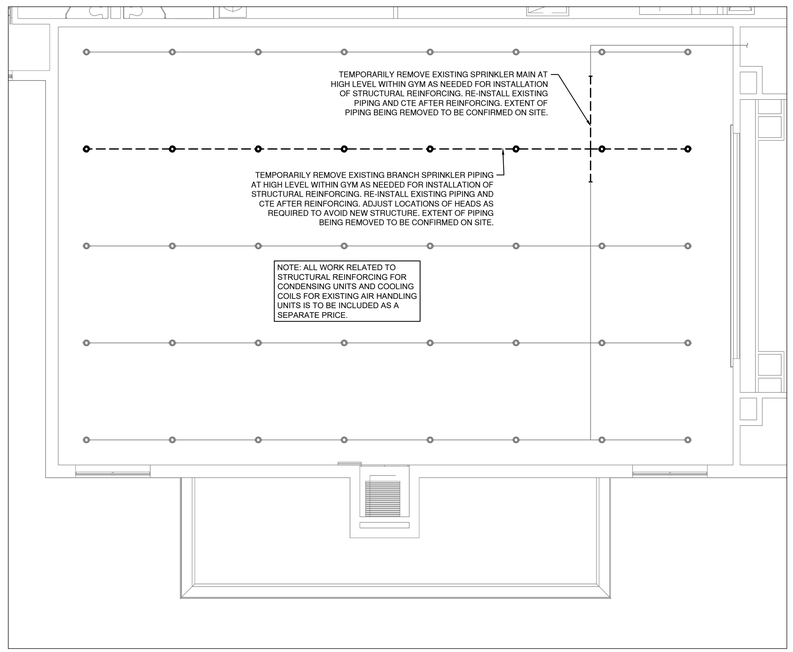
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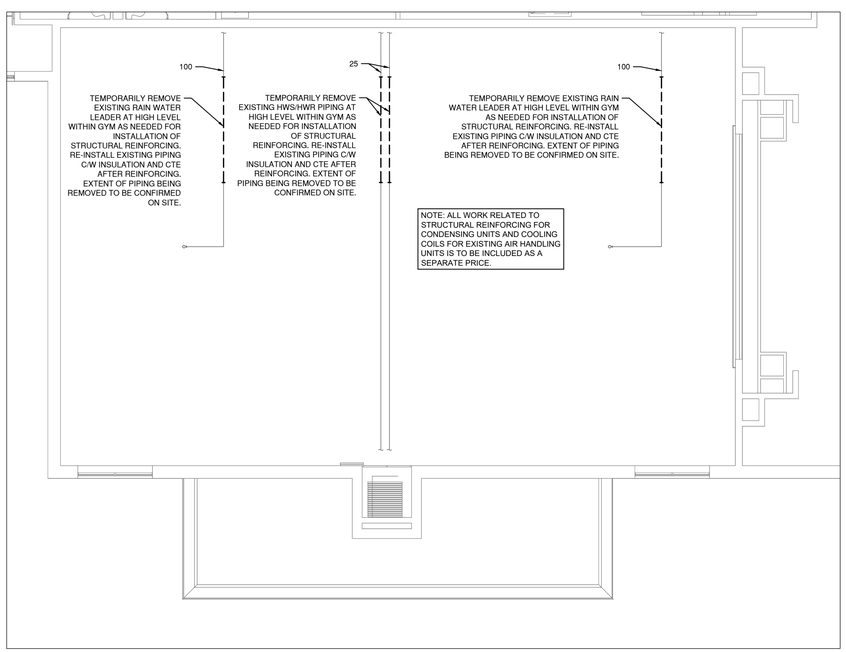
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1 / M-410 GYM MODIFICATIONS - FIRE PROTECTION

Scale: 1:50



2 / M-410 GYM MODIFICATIONS - HVAC PIPING & PLUMBING

Scale: 1:50

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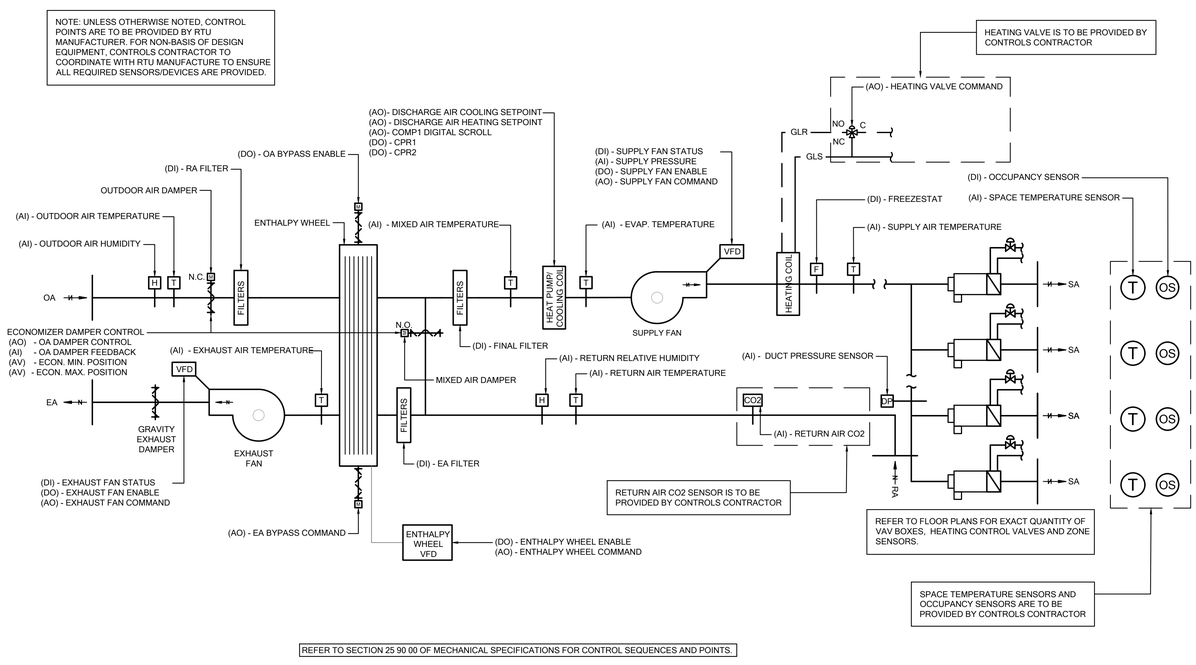
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DCDSB TENDER #: T27-01

DRAWING:
EXISTING GYM MODIFICATIONS

DESIGN BY:	SEAL:
DRAWN BY:	
CHECKED BY:	
DATE: Nov 2026	
SCALE: 1:100	
PROJECT NO: 25041	DRAWING NO: M410

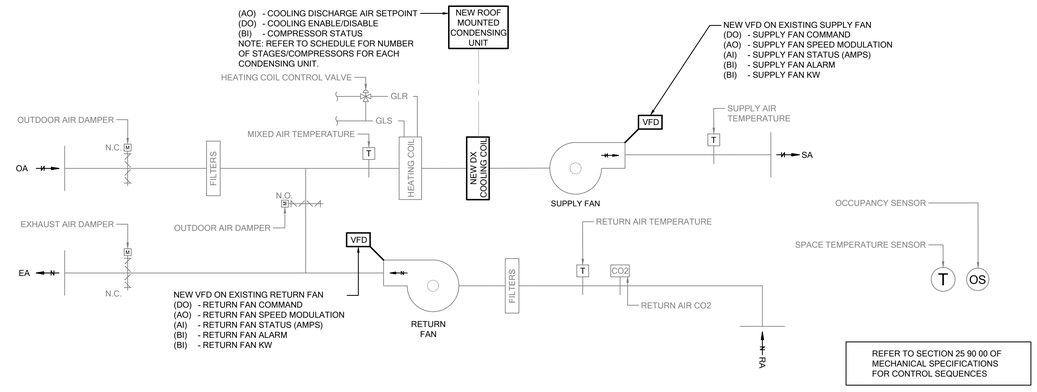
NOTE: UNLESS OTHERWISE NOTED, CONTROL POINTS ARE TO BE PROVIDED BY RTU MANUFACTURER. FOR NON-BASIS OF DESIGN EQUIPMENT, CONTROLS CONTRACTOR TO COORDINATE WITH RTU MANUFACTURE TO ENSURE ALL REQUIRED SENSORS/DEVICES ARE PROVIDED.



REFER TO SECTION 25 90 00 OF MECHANICAL SPECIFICATIONS FOR CONTROL SEQUENCES AND POINTS.

RTU-1 - ADDITION ROOFTOP UNIT

CONTROL DIAGRAM



REFER TO SECTION 25 90 00 OF MECHANICAL SPECIFICATIONS FOR CONTROL SEQUENCES

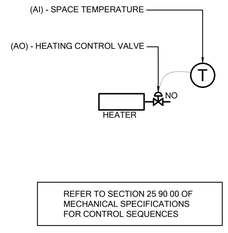
AHU-1, AHU-2, & AHU-3 - EXISTING AIR HANDLING UNITS

CONTROL DIAGRAM

NOTES

1. THE EXISTING BUILDING HAS MULTIPLE EXISTING BUILDING AUTOMATION SYSTEMS PROVIDED BY JOHNSON CONTROLS INC. THE INTENT IS TO CONNECT ALL NEW CONTROLS DEVICES TO THE EXISTING BUILDING AUTOMATION SYSTEM. ALL NEW CONTROLS DEVICES REPLACED AND PROVIDED AS PART OF THIS PROJECT SHALL BE OPERATED BY NEW ELECTRONIC/DIGITAL CONTROLS.
2. THE MECHANICAL CONTRACTOR SHALL RETAIN THE CONTROLS CONTRACTOR FOR ALL NEW BAS CONTROLS WORK INCLUDING INSTALLATION AND PROGRAMMING OF THE NEW CONTROLS COMPONENTS.
3. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF JUNCTION BOXES PROVIDED BY THE ELECTRICAL TRADE, FOR THE PROVISION OF POWER TO CONTROLS SYSTEMS.
4. ALL CONTROL WIRING IN FINISHED AREAS SHALL BE PROVIDED IN WIRE MOLD. ALL CONTROL WIRING IN AREAS WITH EXPOSED CEILINGS SHALL BE PROVIDED IN CONDUIT.
5. RENAME ALL NEW EQUIPMENT TAGS AND CONTROL POINTS ON BAS TO SUIT NEW CONSTRUCTION AS INDICATED ON DOCUMENTS.
6. COORDINATE FINAL INSTALLATION POSITION OF EACH THERMOSTAT AND ALL OTHER CONTROLS RELATED DEVICES THAT ARE LOCATED ON WALLS, CEILINGS, FLOORS, ETC. IN ALL AREAS ON SITE WITH OWNER PRIOR TO ROUGH IN. WALL MOUNTED TEMPERATURE SENSORS ARE TO BE MOUNTED AS PER LOCAL GOVERNING AUTHORITY AND BARRIER FREE REQUIREMENTS.
7. ALL MECHANICAL EQUIPMENT OEM CONTROLLERS SHALL BE BACNET MSTP OR COMPATIBLE COMMUNICATION PROTOCOL. THE CONTROLLERS MUST COMMUNICATE ALL CONTROL POINTS THROUGH BAS SYSTEM WITHOUT GATEWAYS OR JACES. MECHANICAL CONTRACTOR TO COORDINATE COMMUNICATION PROTOCOL BETWEEN EQUIPMENT SUPPLIERS AND CONTROLS CONTRACTOR TO PROVIDE A FULLY INTEGRATED CONTROL SYSTEM.
8. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF JUNCTION BOXES PROVIDED BY THE ELECTRICAL TRADE, FOR THE PROVISION OF POWER TO CONTROLS SYSTEMS.
9. ELECTRICAL CONTRACTORS SHALL PROVIDE RELAYS, DRY CONTACTS, CONTACTORS, TRANSDUCERS AND SENSORS, ETC. AS REQUIRED ON EQUIPMENT PROVIDED BY ELECTRICAL CONTRACTOR, FOR CONNECTION TO THE BAS. CONTROL CONTRACTOR TO COORDINATE.
10. COORDINATE FINAL INSTALLATION POSITION (INCLUDING HEIGHT A.F.F.) OF EACH TEMPERATURE AND HUMIDITY SENSOR, THERMOSTAT, OCCUPANCY SENSOR, FAN CONTROLLER, AND ALL OTHER CONTROLS RELATED DEVICES THAT ARE LOCATED ON WALLS, CEILINGS, FLOORS, ETC. IN ALL AREAS (EXCLUDING SERVICE AREAS) WITH ARCHITECT AND GENERAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
11. UNLESS OTHERWISE NOTED, PROVIDE ALARM AT BAS SHOULD ANY SPACE TEMPERATURE DROPS BELOW 12.8°C (55°F - ADJUSTABLE).
12. SHOULD A SMOKE DETECTOR BE ACTIVATED, THE SYSTEM SHALL SHUT DOWN AND NOT RE-START AUTOMATICALLY.
13. FAN RE-START SEQUENCE ONCE FIRE ALARM HAS BEEN SILENCED SHALL BE STAGGERED THROUGH THE BAS IN ORDER TO PREVENT A CURRENT OVERLOAD OF ELECTRICAL SERVICES.
14. FAN STATUS POINTS ARE TO BE PROVIDED BY DEDICATED CURRENT TRANSDUCER TO MEASURE AMPS.

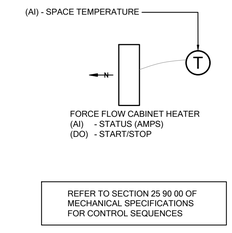
GENERAL CONTROL NOTES



REFER TO SECTION 25 90 00 OF MECHANICAL SPECIFICATIONS FOR CONTROL SEQUENCES

STANDALONE WALL-FIN HEATER

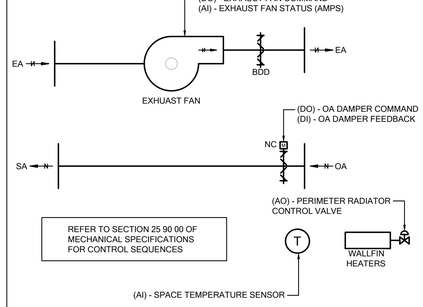
CONTROL DIAGRAM



REFER TO SECTION 25 90 00 OF MECHANICAL SPECIFICATIONS FOR CONTROL SEQUENCES

TYPICAL MOTORIZED HEATER

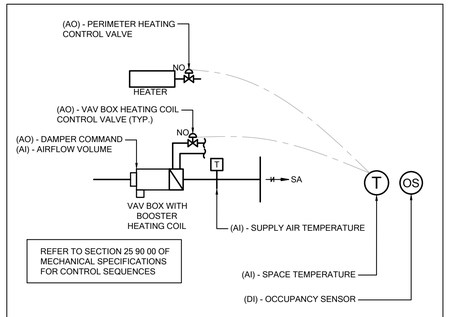
CONTROL DIAGRAM



REFER TO SECTION 25 90 00 OF MECHANICAL SPECIFICATIONS FOR CONTROL SEQUENCES

SRE-1 - STORAGE ROOM EXHAUST

CONTROL DIAGRAM



REFER TO SECTION 25 90 00 OF MECHANICAL SPECIFICATIONS FOR CONTROL SEQUENCES

VAV BOX WITH BOOSTER HEATING COIL

CONTROL DIAGRAM

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4	ISSUED FOR TENDER	2026-11-11	MH

NORTH

RDZ ENGINEERS LTD
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

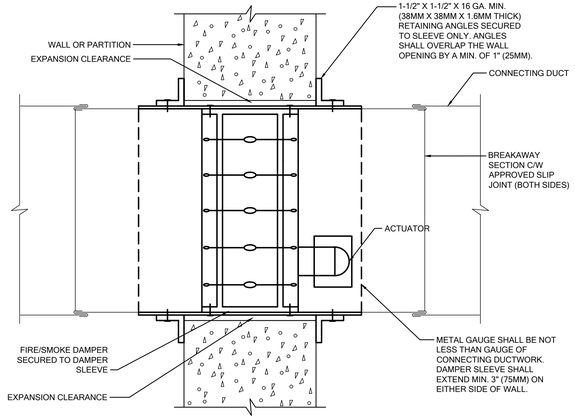
DRAWING:
CONTROL DIAGRAMS #1

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: N.T.S.
SEAL:

PROJECT NO: **25041**
DRAWING NO: M500

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

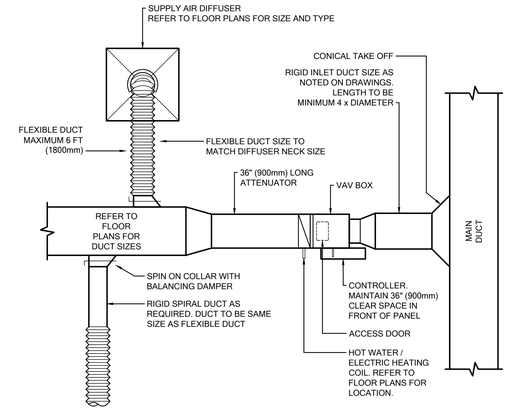
1. ALL NEW MECHANICAL EQUIPMENT AND SERVICES INCLUDING PIPING AND DUCTWORK ARE TO BE SEISMICALLY RESTRAINED AS PER SECTION 20 05 15 OF SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
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NOTES:
1. HORIZONTAL INSTALLATION SHALL BE SIMILAR, BUT DAMPER SHALL BE C/W S.S. CLOSURE SPRING.
2. SEAL BREAKAWAY SECTIONS AFTER INSTALLATION. FOR HIGH PRESSURE INSTALLATIONS, PROVIDE DUCT TAPE ON JOINTS AFTER SEALING.

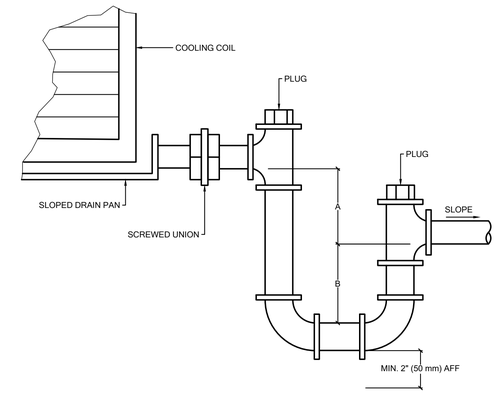
DETAIL OF COMBINATION FIRE SMOKE DAMPER INSTALLATION

SCALE: NTS



DETAIL OF VAV BOX INSTALLATION

SCALE: NTS

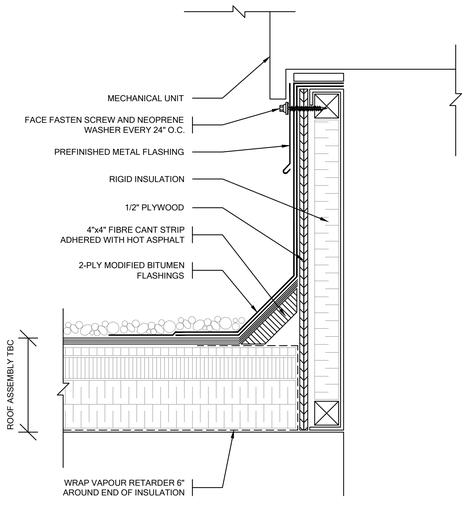


	A	B
DRAW THROUGH	CASING STATIC PRESSURE + 1" (25 mm) MINIMUM	CASING STATIC PRESSURE / 2
BLOW THROUGH	1" (25 mm) MINIMUM	CASING STATIC PRESSURE + 1" (25 mm)

NOTES:
1. BASE HEIGHT TO PROVIDE SUFFICIENT HEIGHT FOR TRAP.

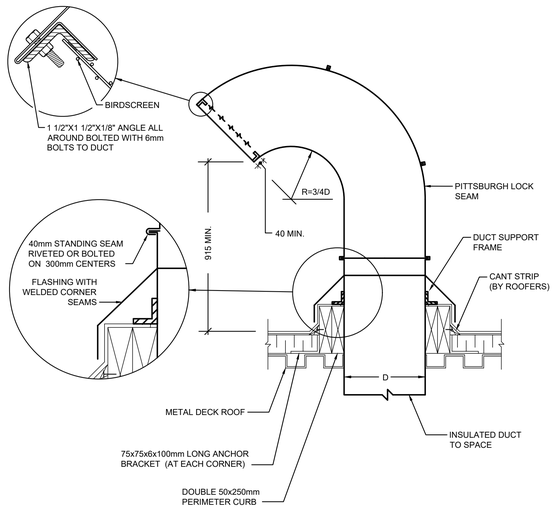
DETAIL OF HVAC CONDENSATE TRAP SIZING

SCALE: NTS



DETAIL OF PREFABRICATED ROOF CURB

SCALE: NTS

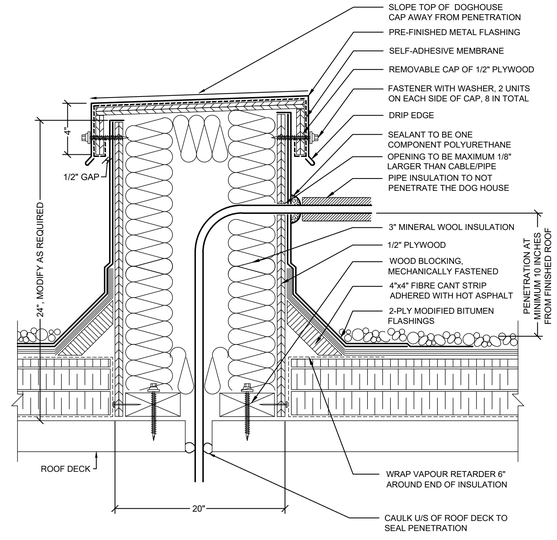


NOTES:

1. ALL JOINTS TO BE MADE WEATHERTIGHT
2. CANT STRIP TO BE SECURED TO PERIMETER CURB BY 9mmø LAG SCREW
3. FLASHING SHALL BE 16 GA. GALVANIZED AND PAINTED WITH 2 COATS OF EPOXY

DETAIL OF GOOSENECK

SCALE: NTS



DETAIL OF ROOF PIPING DOGHOUSE

SCALE: NTS

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

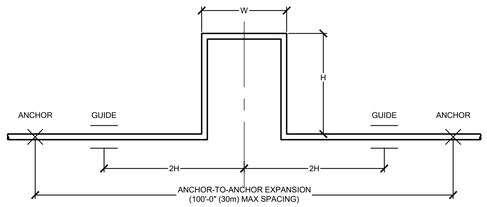
DRAWING:
MECHANICAL - TYPICAL DETAILS #1

DESIGN BY:
SEAL:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: N.T.S.

PROJECT NO: 25041
DRAWING NO: M600

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

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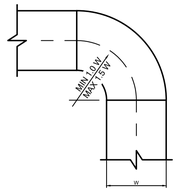
EXPANSION LOOP DIMENSIONS

PIPE SIZE	"W"	"H"	PIPE SIZE	"W"	"H"
1" (25mm)	1'-6"	3'-0"	6" (150mm)	3'-3"	6'-6"
1-1/4" (32mm)	1'-8"	3'-4"	8" (200mm)	3'-8"	7'-4"
1-1/2" (38mm)	1'-9"	3'-6"	10" (250mm)	4'-2"	8'-4"
2" (50mm)	1'-11"	3'-10"	12" (300mm)	4'-6"	9'-0"
2-1/2" (65mm)	2'-2"	4'-4"	14" (350mm)	4'-8"	9'-4"
3" (75mm)	2'-4"	4'-8"	16" (400mm)	5'-0"	10'-0"
4" (100mm)	2'-8"	5'-4"	18" (450mm)	5'-4"	10'-8"

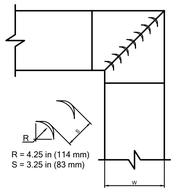
NOTES:
1. W = L/5, H = 2W, 2H + W = L, WHERE "L" IS THE TOTAL LENGTH OF THE LOOP, CALCULATED BASED ON ALLOWABLE EXPANSION IN PIPE.
2. ABOVE DIMENSIONS ARE BASED ON CARBON STEEL PIPE WITH ANCHOR TO ANCHOR DISTANCE OF 100 FT (30m) AND RATED UP TO 200°F (93°C).

DETAIL OF STEEL PIPE EXPANSION LOOP

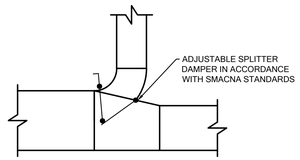
SCALE: NTS



SMOOTH ELBOW



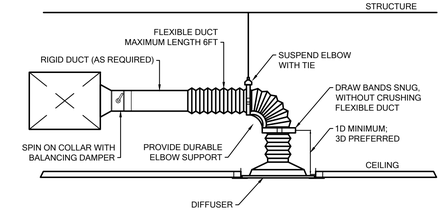
SMOOTH ELBOW



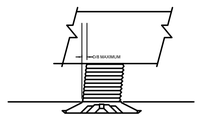
BRANCH DUCT TAKEOFF FROM MAIN

DETAIL OF TYPICAL DUCTWORK FITTINGS

SCALE: NTS

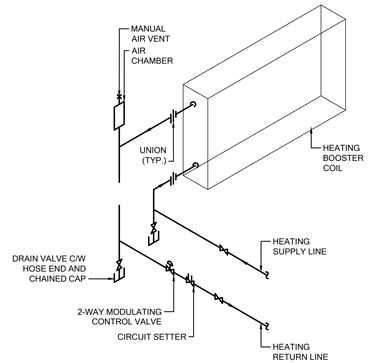


NOTE:
1. WHEN LENGTH OF STRAIGHT DUCT UPSTREAM OF DIFFUSER IS LESS THAN 3D, PROVIDE AN EQUALIZING GRID



DETAIL OF FLEXIBLE DUCTWORK CONNECTION TO DIFFUSER

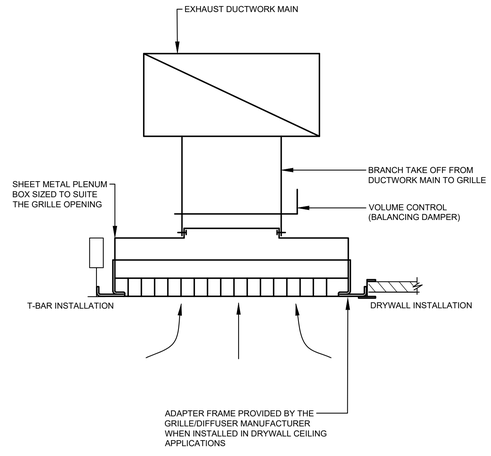
SCALE: NTS



NOTE:
1. ARRANGE PIPING AND INSTALLATION OF VALVES SUCH THAT VALVES ARE GROUPED FOR EASY MAINTENANCE.
2. SUPPORT PIPING INDEPENDENT FROM COIL.
3. VALVES FOR FANCOIL UNITS SHALL BE POSITIONED OVER EXTENDED DRAIN PAN.

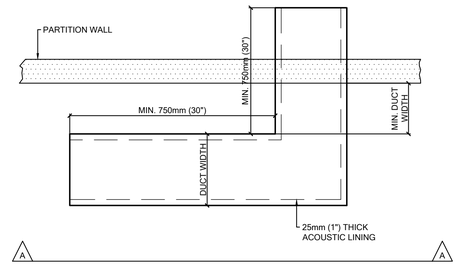
DETAIL OF BOOSTER COIL CONNECTION

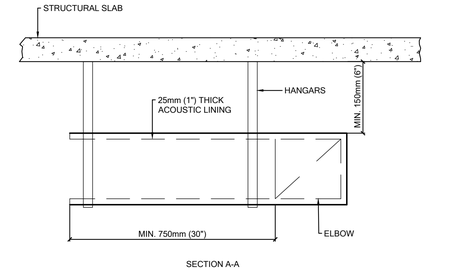
SCALE: NTS



CEILING MOUNTED EXHAUST GRILLE INSTALLATION

SCALE: NTS





SECTION A-A

NOTES:
REFER TO FLOOR PLANS FOR QUANTITIES AND DUCT SIZES

DETAIL OF TRANSFER AIR DUCT

SCALE: NTS

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST
CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
MECHANICAL -
TYPICAL DETAILS #2

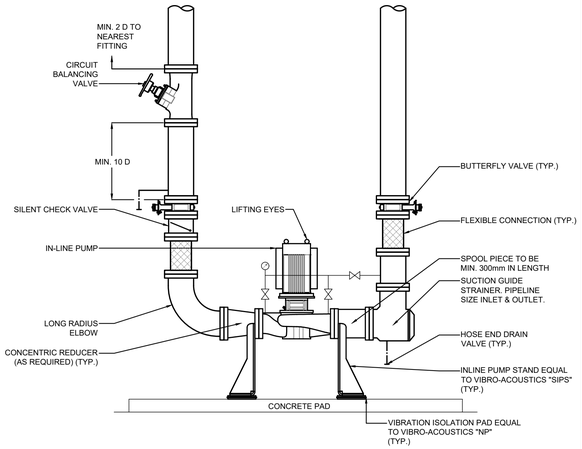
DESIGN BY:
SEAL:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: N.T.S.
PROJECT NO: 25041
DRAWING NO: M601

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

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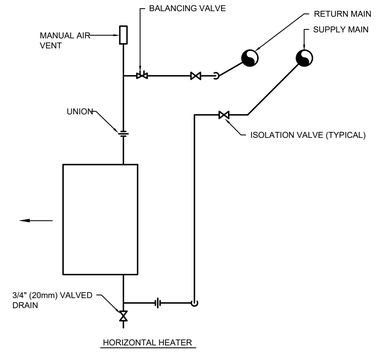
NOTE:

1. PROVIDE LIFTING LUGS OR STEEL BEAM FOR REMOVAL OF ALL MOTORS 3.7KW (5HP) & LARGER.



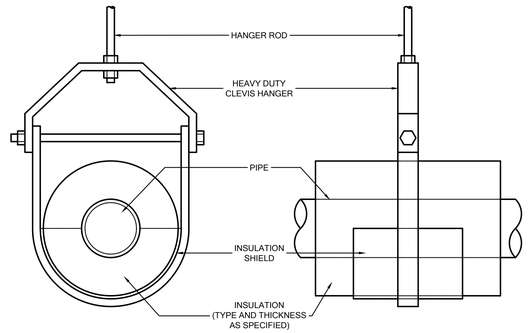
DETAIL OF VERTICAL INLINE FLOOR MOUNTED PUMP

SCALE: NTS



DETAIL OF MOTORIZED HEATER PIPING

SCALE: NTS

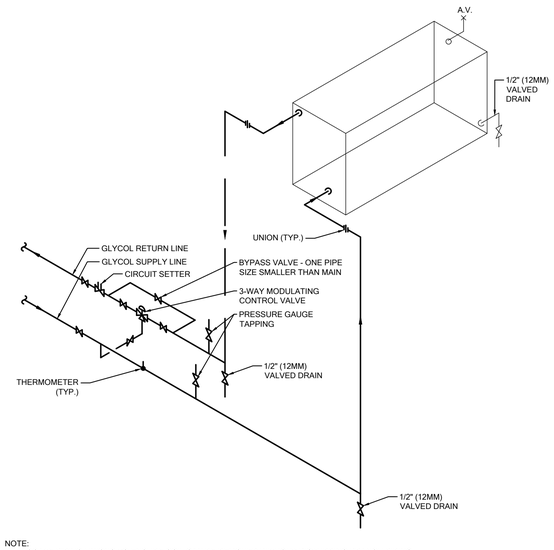


PIPE SIZE		(mm)	25	30	40	50	65	75	100	125	150	200	250	300
		(INCH)	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10	12
HANGER SPACING (FT)	STD. STEEL	WATER	7	7	9	10	11	12	14	14	17	19	20	23
		STEAM	9	9	12	13	14	15	17	17	21	24	26	30
	COPPER	WATER	6	6	8	8	9	10	12	12	14	16	18	19
HANGER ROD DIAMETER (INCH)			1/4	3/8	3/8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

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

DETAIL OF PIPE HANGER

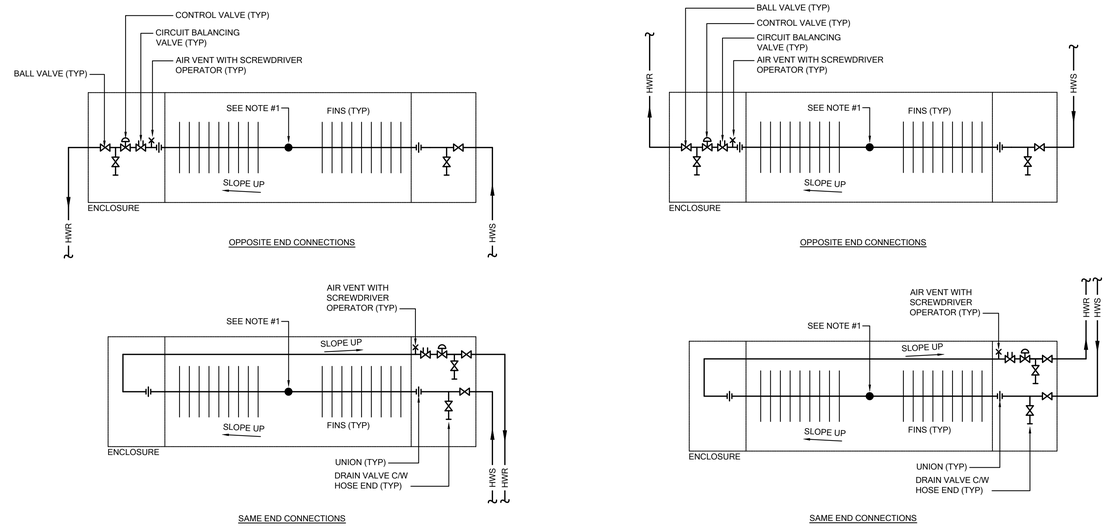
SCALE: NTS



NOTE:
1. LOCATE PIPING UNIONS TO ENSURE COIL CAN BE REMOVED WITHOUT DISTURBING BRANCH PIPING.
2. PROVIDE REVERSE RETURN HEADER IF MULTIPLE COILS ARE PROVIDED IN BANK.

DETAIL OF HEATING COIL PIPING CONNECTIONS

SCALE: NTS



NOTES

1. PROVIDE FOR EXPANSION & CONTRACTION WHERE MOVEMENT EXCEEDS 25mm (1"). PROVIDE EXPANSION COMPENSATORS
2. LOCATE VALVES AT ACCESS PANEL. PROVIDE 300mm (12") REMOVABLE COVERS ON ENCLOSURE.
3. PROVIDE ECCENTRIC REDUCERS AT ELEMENT ASSEMBLY INLET & OUTLET AS REQUIRED.

TYPICAL CONNECTIONS FOR SINGLE ROW FINNED TUBE RADIATION (UPFEED & DOWNFEED)

SCALE: NTS

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ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
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DCDSB TENDER #: T27-01

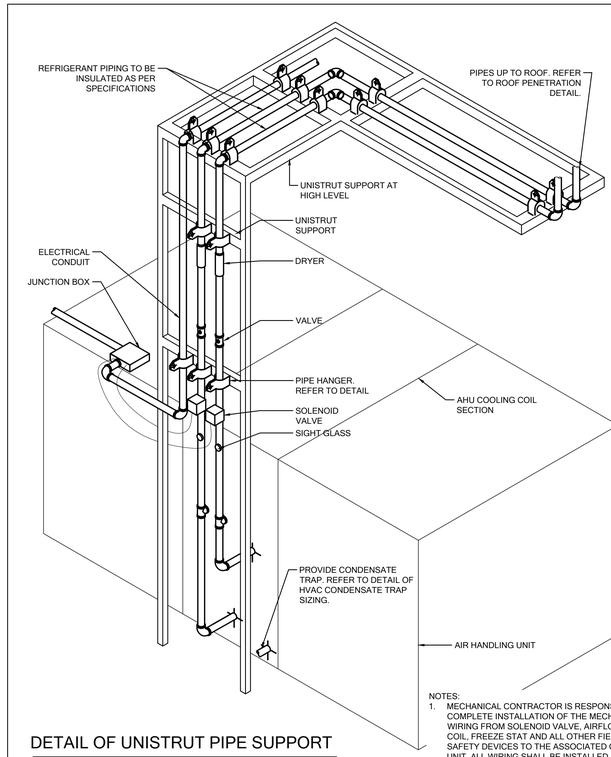
DRAWING:
MECHANICAL - TYPICAL DETAILS #3

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: N.T.S.
SEAL:

PROJECT NO: 25041
DRAWING NO: M602

SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

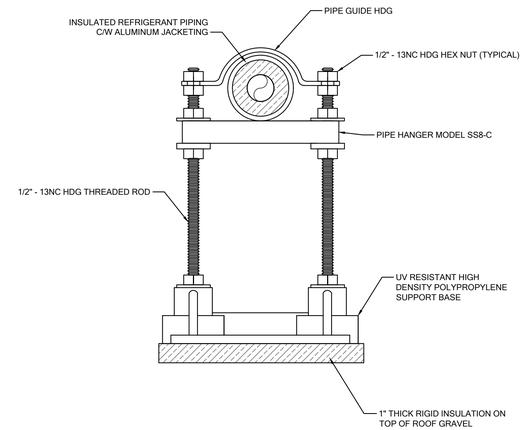
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NOTES:
1. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE MECHANICAL WIRING FROM SOLENOID VALVE, AIRFLOW SWITCH, DX COIL, FREEZE STAT AND ALL OTHER FIELD WIRED SAFETY DEVICES TO THE ASSOCIATED CONDENSING UNIT. ALL WIRING SHALL BE INSTALLED IN EMT CONDUIT. REFER TO CONDENSING UNIT SHOP DRAWINGS FOR FIELD WIRING DIAGRAM.

DETAIL OF UNISTRUT PIPE SUPPORT

SCALE: NTS

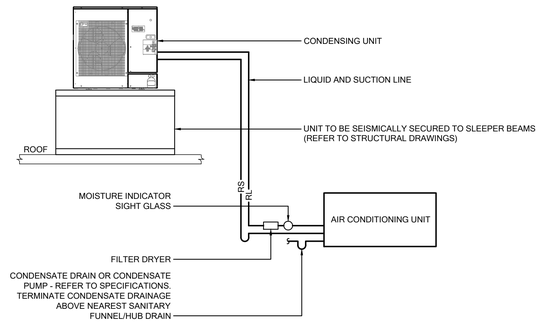


GENERAL NOTES:

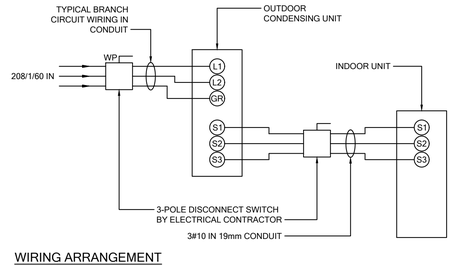
1. FOR COPPER TUBING LESS THAN 25MM (1"), PROVIDE HEAVY GAUGE GALVANIZED METAL PAN (OR EQUIVALENT) RUNNING BETWEEN POLYETHYLENE SUPPORTS (PAN SHALL BE CONSTRUCTED TO SUPPORT PEDESTRIAN LOADS). THE REFRIGERANT PIPING SHALL BE MOUNTED ON THE PAN FOR CONTINUOUS SUPPORT C/W GALVANIZED PIPE CLAMP FASTENERS.
2. REFER TO MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.
3. SPACING OF SUPPORTS TO MEET SPECIFICATIONS, MANUFACTURER'S REQUIREMENTS, AND CSA B149.1.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

DETAIL OF REFRIGERANT PIPING SUPPORT ON ROOF

SCALE: NTS



PIPING ARRANGEMENT



WIRING ARRANGEMENT

DETAIL OF SPLIT AC UNIT

SCALE: NTS

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4	ISSUED FOR PERMIT	2026-11-03	MH
4	ISSUED FOR TENDER	2026-11-11	MH

NORTH

RDZ ENGINEERS LTD
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

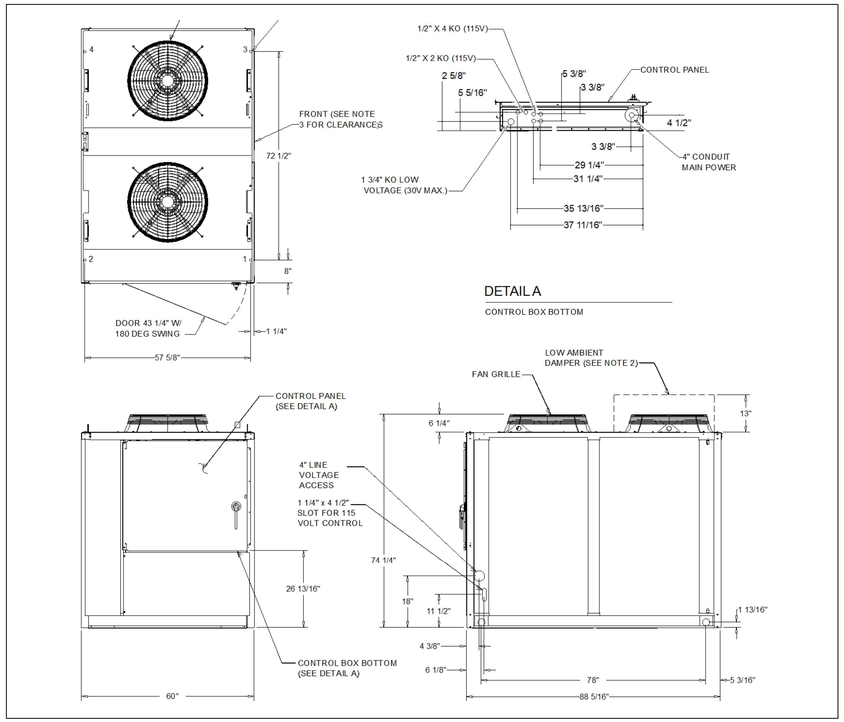
DRAWING:
MECHANICAL - TYPICAL DETAILS #4

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: N.T.S.
SEAL:

PROJECT NO: **25041**
DRAWING NO: M603

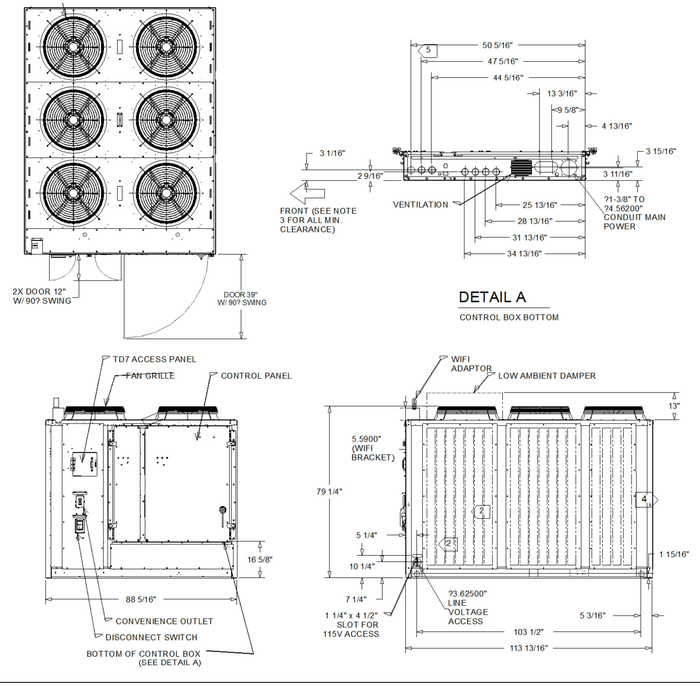
SEISMIC CONTROL AND RESTRAINT GENERAL NOTES

1. ALL NEW MECHANICAL EQUIPMENT AND SERVICES INCLUDING PIPING AND DUCTWORK ARE TO BE SEISMICALLY RESTRAINED AS PER SECTION 20 05 15 OF SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
2. RETAIN AND PAY FOR SERVICES OF AN EXPERIENCED SEISMIC CONSULTANT WHO IS A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION OF THE WORK AND A MEMBER IN GOOD STANDING OF A PROFESSIONAL ENGINEERS ASSOCIATION IN THE JURISDICTION OF THE WORK.



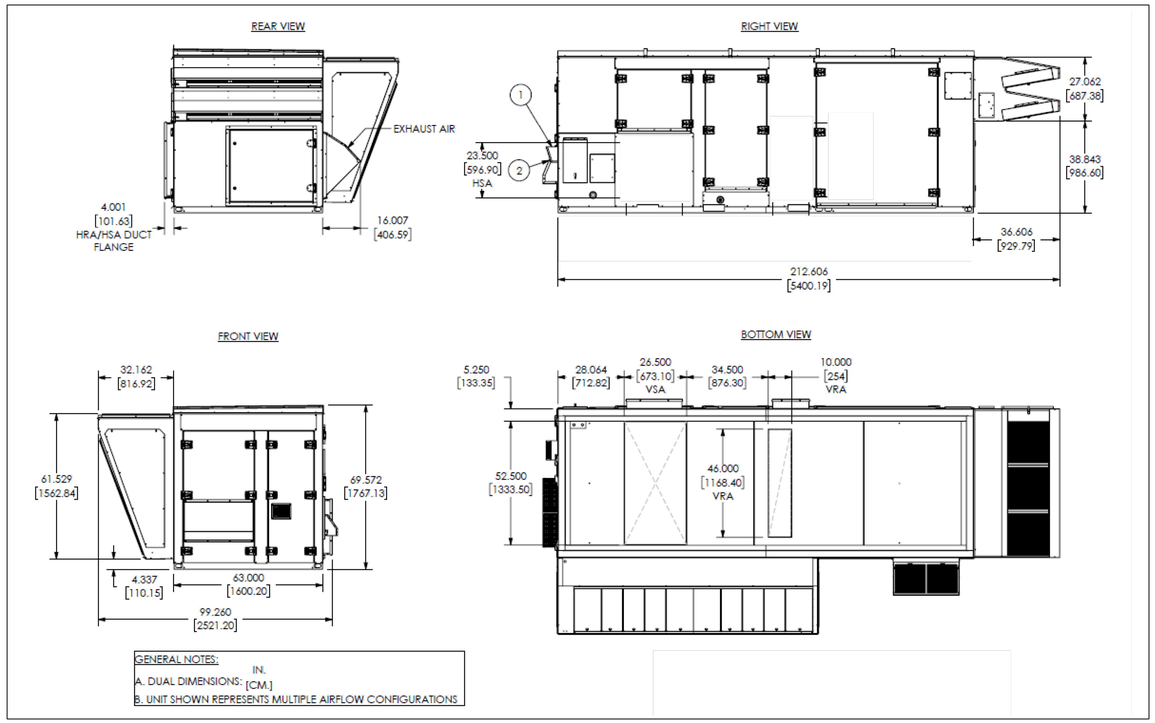
DETAIL OF CU-3

SCALE: NTS



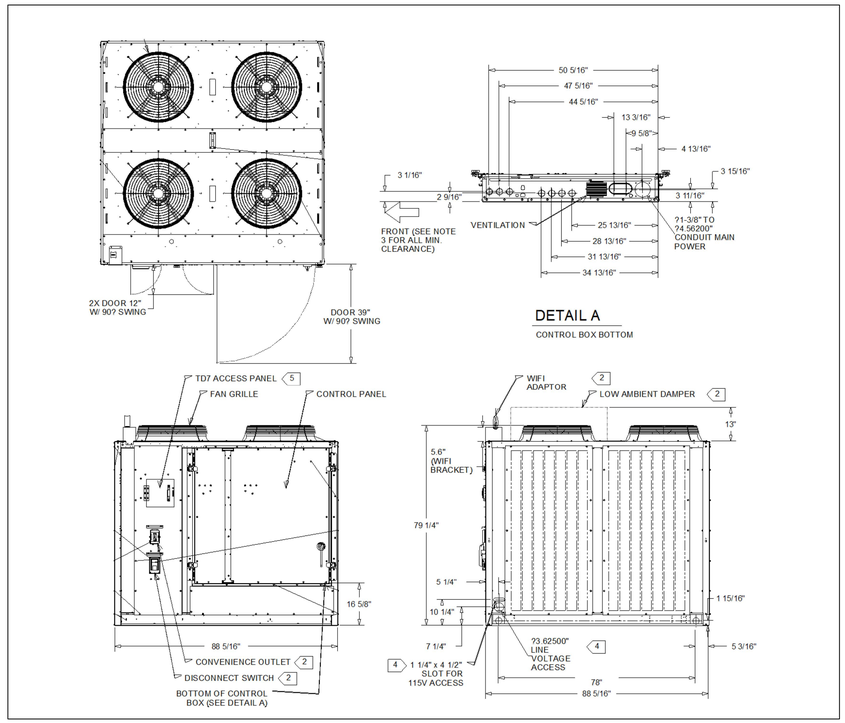
DETAIL OF CU-2

SCALE: NTS



DETAIL OF RTU-1

SCALE: NTS



DETAIL OF CU-1

SCALE: NTS

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

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BARRY BRYAN ASSOCIATES

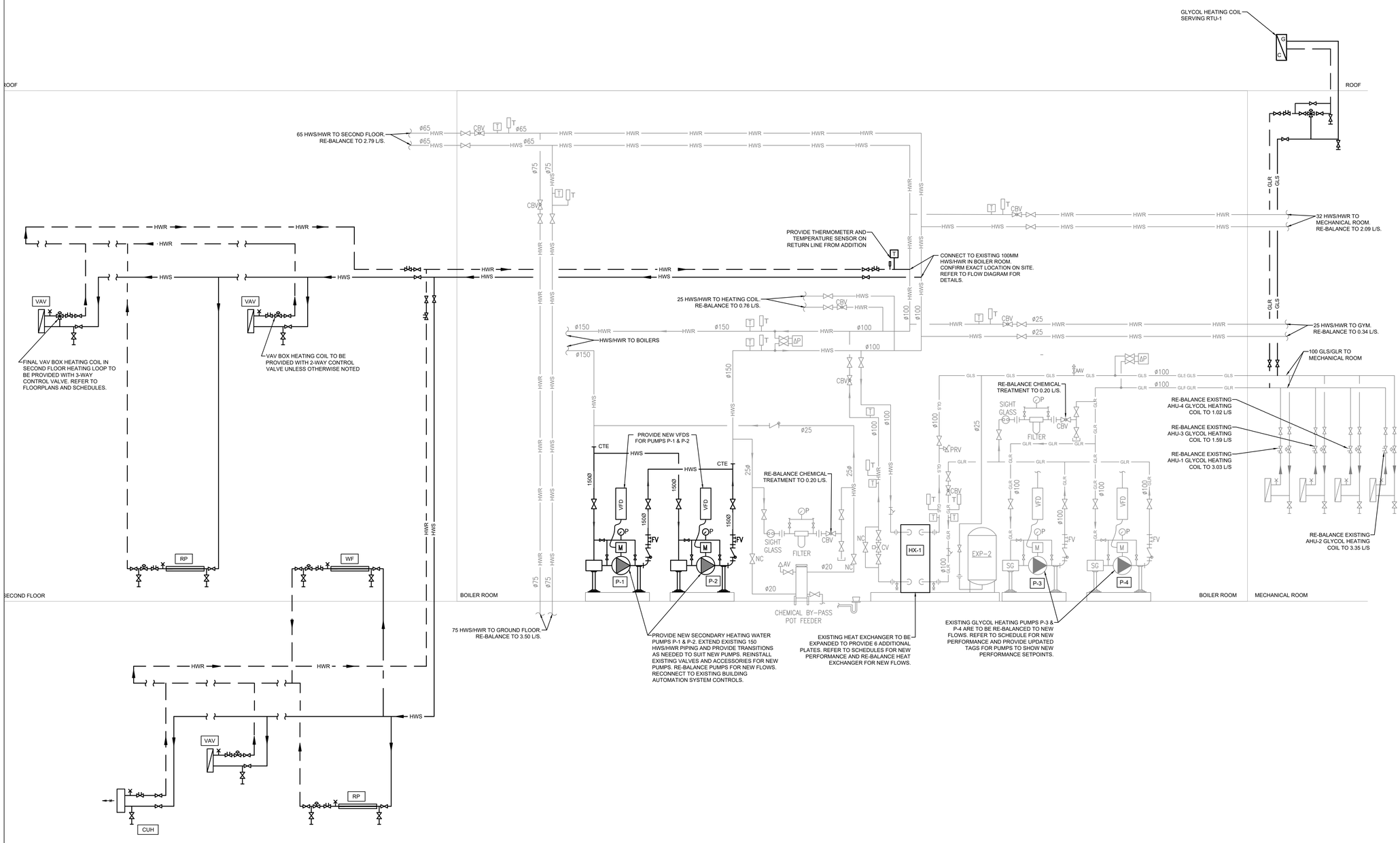
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
MECHANICAL EQUIPMENT DETAILS

DESIGN BY:	SEAL:
DRAWN BY:	
CHECKED BY:	
DATE: Nov 2026	
SCALE: N.T.S.	
PROJECT NO: 25041	DRAWING NO: M610



CONNECTIONS SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND LOCATIONS OF HEATERS.

HEATING WATER FLOW DIAGRAM

NTS

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EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
HEATING WATER FLOW DIAGRAM

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: N.T.S.
SEAL:

PROJECT NO: **25041**
DRAWING NO: M620

SCHEDULE OF AIR HANDLING UNITS

TAG	MANUFACTURER	MODEL	LOCATION	AREA SERVED	WEIGHT	DIMENSIONS			DESIGN AIRFLOW	OUTDOOR AIR		AIR FILTRATION		DX COOLING							HYDRONIC HEATING COIL							HEAT PUMP HEATING (BASED ON 1.1°C OAT)				ENERGY RECOVERY PERFORMANCE (WINTER)						ENERGY RECOVERY PERFORMANCE (SUMMER)						REMARKS
						W	L	H						EVAPORATOR																												
														CAPACITY (KW)		EAT (°C)		LAT (°C)		NOMINAL TONS																					
												PRE-FILTER	FINAL FILTER	SENS.	TOTAL	DB	WB	DB	WB		HEATING FLUID	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	ENT. FLUID TEMP.	LEAV. FLUID TEMP.	EAT DB	LAT DB	CAPACITY	EAT	LAT	COP	AIRFLOW	AIR TEMP.		APD	ENERGY RECOVERY	EFF	AIRFLOW	AIR TEMP.		APD	ENERGY RECOVERY	EFF	
																																			EAT	LAT					EAT	LAT				
					(KG)	(MM)	(MM)	(MM)	(L/S)	(L/S)	%											(KW)	(L/S)	(KPA)	(°C)	(°C)	(°C)	(°C)	(KW)	DB (°C)	DB (°C)		(L/S)	DB/WB (°C)	DB/WB (°C)	(Pa)	(kW)	(%)	(L/S)	DB/WB (°C)	DB/WB (°C)	(Pa)	(kW)	(%)	
RTU-1	TRANE	HORIZON OAD/N D020	ROOF	ADDITION	1907	2413	4470	1727	3,775	2,125	56	50MM PLEATED MERV8	100MM PLEATED MERV13	53.9	70.9	24.9	18.7	13.0	13.0	20	50% PROP. GLYCOL	65.1	1.55	3.6	79	68	14.0	28.1	70.0	14.0	27.6	3.5	2,125	-20.0 / -20.0	8.5 / 5.1	245	100.3	67	2,125	30.0 / 23.0	25.6 / 19.7	245	29.6	60	

NOTES

1. ROOFTOP UNITS SHALL BE COMPLETE WITH A SINGLE POINT POWER CONNECTION AND SHALL BE PROVIDED WITH A BACNET CONTROLLER. PROVIDE 120V/1PH/60HZ FIELD WIRED RECEPTACLE. RECEPTACLE SHALL BE 20A, GFI PROTECTED AND INSTALLED IN WEATHERPROOF ENCLOSURE.
2. PROVIDE 450MM HIGH ROOF CURB. ROOFTOP UNIT TO BE SEISMICALLY RESTRAINED TO ROOF CURB.
3. FAN MOTORS FOR UNITS IDENTIFIED WITH "VFD" SHALL BE PREMIUM EFFICIENCY INVERTER DUTY RATED.
4. EACH UNIT SHALL BE IN COMPLIANCE WITH ASHRAE STANDARD 90.1 EFFICIENCY REQUIREMENTS.
5. EACH UNIT TO BE COMPLETE WITH ECONOMIZER.
6. ENERGY RECOVERY WHEEL TO BE PROVIDED WITH VFD FOR FROST CONTROL.
7. UNIT TO BE PROVIDED WITH BACNET MSTP CONTROLLER.
8. UNIT TO BE SUITED FOR VAV OPERATION SERVING MULTIPLE ZONES.

SCHEDULE OF AIR HANDLING UNITS (CONT'D)

TAG	SUPPLY FAN															EXHAUST / RETURN FAN															ELECTRICAL				REMARKS
	AIRFLOW	ESP	TSP	FAN RPM	BHP	MOTOR HP	VFD	SOUND POWER LEVELS, dB								AIRFLOW	ESP	TSP	FAN RPM	BHP	MOTOR HP	VFD	SOUND POWER LEVELS, dB								FLA	MCA	MOCP	POWER (V/PH/HZ)	
								OCTAVE BAND CENTER FREQUENCY, HZ																OCTAVE BAND CENTER FREQUENCY, HZ												
	(L/S)	(PA)	(PA)					63	125	250	500	1000	2000	4000	8000	(L/S)	(PA)	(PA)					63	125	250	500	1000	2000	4000	8000					
RTU-1	3,775	350	1028	1833	8.91	10	YES	89	82	91	88	87	82	78	75	3,775	250	545	1723	2.39	3	YES	74	76	86	82	76	75	68	63	110	117	125	208/3/60	

SCHEDULE OF SILENCERS

TAG	SYSTEM SERVED	TYPE	MANUFACTURER	MODEL NUMBER	DIMENSIONS			AIRFLOW	VELOCITY (NOTE 4)	PD (NOTE 5)	MAX. PD W/ SYSTEM EFFECT (NOTE 6)	HTL CASING EQUIV. GAUGE	MINIMUM DYNAMIC INSERTION LOSS, dB (NOTE 5)								REMARKS
					DUCT WIDTH	DUCT HEIGHT	DUCT LENGTH (NOTE 2)						OCTAVE BAND CENTER FREQUENCY, HZ								
					MM	MM	MM	L/S	M/S	PA	PA		63	125	250	500	1000	2000	4000	8000	
SL-1S	RTU-1	RECT. ELBOW DISSIPATIVE	VIBRO ACOUSTICS	RED-HV-A1326192	450	1300	2100	3775	+6	33	50	12	8	12	18	25	27	29	24	20	
SL-1R	RTU-1	RECT. ELBOW DISSIPATIVE	VIBRO ACOUSTICS	RED-HV-A1326192	450	1300	2100	3775	-6	33	71	12	8	13	19	28	26	29	22	19	

NOTES

1. SOUNDS POWER LEVELS FOR EQUIPMENT IS TO BE CONFIRMED WITH APPROVED SHOP DRAWINGS.
2. LENGTH SHOWN FOR ELBOW SILENCERS IS CENTERLINE LENGTH.
3. TARGET NC LEVELS WITHIN SPACES ARE AS FOLLOWS:
   CLASSROOMS - NC-35
   CORRIDORS - NC-40
4. VELOCITY SHOWN IS + (FORWARD FLOW) OR - (REVERSE FLOW) AS DEFINED BY ASTM E477-20.
5. IDEAL PRESSURE DROP AS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
6. PRESSURE DROP PER ASTM E477-20 PLUS SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.
7. MINIMUM DYNAMIC INSERTION LOSS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
8. MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED ACOUSTICAL CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT DUCTBORNE FAN SOUND LEVELS, INCLUDING AIRBORNE AND BREAKOUT NOISE, MEET THE REQUIRED CRITERIA.
9. MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED PRESSURE DROP CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT INSTALLED PRESSURE DROP WITH SYSTEM EFFECTS DOES NOT EXCEED SCHEDULED VALUES.

SCHEDULE OF HEATING WATER PUMPS

TAG	SYSTEM	NO. REQ'D	OPERATION	LOCATION	MANUFACTURER	MODEL	FLANGE SIZE (MM)	WEIGHT (KG)	FLOW (L/S)	HEAD (KPA)	RPM	AMPS	MOTOR HP	VARIABLE SPEED	POWER (V/Ø/Hz	REMARKS
P-1 & P-2	SECONDARY HEATING	2	DUTY-STANDBY	EXISTING BOILER ROOM	BELL & GOSSETT	E-80SC 4x4x11B	100	290	21.45	255	1800	-	15	YES	208/3/60	2
P-3 & P-4	GLYCOL HEATING	2	DUTY-STANDBY	EXISTING BOILER ROOM	BELL & GOSSETT	E-80 2.5x2.5x9.5C	65	120	11.11	156	1800	-	5	YES	208/3/60	1

NOTES

1. EXISTING GLYCOL PUMPS ARE TO REMAIN AND BE RE-BALANCED TO PERFORMANCE IN SCHEDULE.
2. PUMPS TO BE MOUNTED ON SEISMIC INLINE PUMP STAND (EQUAL TO VIBRO-ACOUSTIC MODEL SIPS) WITH NSN (NEOPRENE-STEEL-NEOPRENE) PADS.

SCHEDULE OF PLATE AND FRAME HEAT EXCHANGERS

TAG	MANUFACTURER	MODEL	LOCATION	NO. OF PLATES	CAPACITY (KW)	EFFECTIVE HEAT SURFACE (M2)	HOT SIDE						COLD SIDE						REMARKS
							MEDIUM	FLOW (L/S)	EWT (°C)	LWT (°C)	P.D (KPA)	CONNECTION SIZE (MM)	MEDIUM	FLOW (L/S)	EWT (°C)	LWT (°C)	P.D (KPA)	CONNECTION SIZE (MM)	
HX-1	BELL & GOSSETT	AP47	EXISTING BOILER ROOM	72	460.8	35.7	WATER	10.16	82	71	25.4	100	50% PG	11.11	68	79	32.4	100	1

NOTES

1. EXISTING HEAT EXCHANGER TO HAVE SIX (6) PLATES ADDED TO SUIT NEW PERFORMANCE.

SCHEDULE OF GRILLES AND DIFFUSERS

TYPE	MANUFACTURER	MODEL	DESCRIPTION	VOLUME CONTROL	FINISH	OPTIONS	REMARKS
A	E.H. PRICE	RTD	RADIAL TWIST DIFFUSER	YES	TO ARCH. DIRECTION	SIZE: 24"x24" (600mm x 600mm) T-BAR LAY IN	REFER TO FLOOR PLANS FOR NECK SIZE AND AIRFLOWS.
B	E.H. PRICE	80	EGG CRATE EXHAUST	YES	TO ARCH. DIRECTION	DUCTED: F BORDER	REFER TO FLOOR PLANS FOR SIZE OF GRILLES.
C	E.H. PRICE	80	EGG CRATE RETURN	NO	TO ARCH. DIRECTION	NON-DUCTED: CORE	REFER TO FLOOR PLANS FOR SIZE OF GRILLES.

NOTES

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

SCHEDULE OF MOTORIZED UNIT HEATERS

TAG	MANUFACTURER	MODEL	LOCATION	CAPACITY (kW)	AIRFLOW (L/S)	WATER (L/S)	EWT (°C)	LWT (°C)	EAT (°C)	LENGTH (MM)	HEIGHT (MM)	DEPTH (MM)	MOTOR		REMARKS
													FLA	VOLTAGE	
CUH-1	SIGMA	SFF06	STAIR ST-4	12.4	283	0.27	82	71	16	1030	700	240	1.9	120/1/60	

NOTES

1. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

SCHEDULE OF WALLFIN HEATERS

TAG	MANUFACTURER	LOCATION	ENCLOSURE MODEL	ELEMENT TYPE	ENCLOSURE HEIGHT (mm)	CAPACITY (KW/M)	AVERAGE WATER TEMPERATURE (°C)	MOUNTING HEIGHT (MM)	REMARKS
WF-A	ENGINEERED AIR	ADDITION	SWE-18S	44C100	457	1.26	77	100	SLOPED TOP

NOTES

1. CAPACITIES BASED ON ENTERING AIR TEMPERATURE OF 18.3°C (65°F).
2. WALLFIN ENCLOSURES ARE TO EXTEND FULL WIDTH OF WALL WITHIN SPACES. LENGTHS SHOWN ON FLOOR PLANS REFER TO ACTIVE FIN LENGTH.
3. REFER TO DRAWINGS FOR QUANTITY, CAPACITY, LOCATION, AND TYPE OF WALLFINS.

SCHEDULE OF VARIABLE AIR VOLUME BOXES

UNIT DESIGNATION	AREA SERVED	MANUFACTURER	MODEL	UNIT SIZE	AIRFLOW (L/S)		INLET SIZE (MM)	DISCHARGE NC	HEATING COIL			REMARKS
					MIN.	MAX.			CAPACITY (KW)	WATER FLOW (L/S)	AIR TEMP. RISE (°C)	
VAV-177	STUDENT WELLNESS 177	E.H. PRICE	SDV5000	6	50	100	150	23	0.7	0.02	11	
VAV-177A	OFFICE 177A	E.H. PRICE	SDV5000	6	50	105	150	23	0.7	0.02	11	
VAV-178	CLASSROOM 178	E.H. PRICE	SDV5000	10	190	380	250	21	2.6	0.06	11	
VAV-179	CLASSROOM 179	E.H. PRICE	SDV5000	10	200	400	250	21	2.7	0.06	11	
VAV-180	CLASSROOM 180	E.H. PRICE	SDV5000	10	190	380	250	21	2.6	0.06	11	
VAV-181	CLASSROOM 181	E.H. PRICE	SDV5000	10	240	480	250	21	3.2	0.07	11	
VAV-239	STUDENT WELLNESS 239	E.H. PRICE	SDV5000	6	55	110	150	23	0.7	0.02	11	
VAV-240	CLASSROOM 240	E.H. PRICE	SDV5000	10	210	420	250	21	2.8	0.06	11	3-WAY CV
VAV-241	CLASSROOM 241	E.H. PRICE	SDV5000	10	220	440	250	21	3.0	0.07	11	
VAV-242	CLASSROOM 242	E.H. PRICE	SDV5000	10	210	420	250	21	2.8	0.06	11	
VAV-243	CLASSROOM 243	E.H. PRICE	SDV5000	10	265	535	250	21	3.6	0.08	11	

NOTES

1. VAV BOX TO BE PROVIDED WITH 900MM ATTENUATOR.
2. LOCATION OF CONTROLS ON VAV BOX (RIGHT HAND / LEFT HAND) ARE SHOWN ON FLOOR PLANS AND ARE TO BE CONFIRMED BY CONTRACTOR PRIOR TO ORDERING.
3. DDC CONTROLLER/ACTUATOR SHALL BE SUPPLIED BY CONTROLS CONTRACTOR AND INSTALLED BY VAV BOX MANUFACTURER.
4. HEATING COIL DESIGN IS BASED ON 82°C/71°C (EWT/LWT). COIL TO BE PROVIDED WITH 2-WAY CONTROL VALVE UNLESS OTHERWISE NOTED.

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
MECHANICAL SCHEDULES #1

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: N.T.S.
SEAL:

PROJECT NO: 25041
DRAWING NO: M700

SCHEDULE OF VARIABLE FREQUENCY DRIVES

EQUIPMENT SERVED	EQUIPMENT TAG	EQUIPMENT LOCATION	AREA SERVED	MANUFACTURER	TYPE OF EQUIPMENT	MOTOR HP	INTEGRAL DISCONNECT	ELECTRICAL (V/P/HZ)	REMARKS
RETURN AIR FAN #1	RF-1	EXISTING MECHANICAL ROOM	GROUND FLOOR CLASSROOMS	DANFOSS	RETURN FAN	5	YES	208/3/60	
RETURN AIR FAN #2	RF-2	EXISTING MECHANICAL ROOM	SECOND FLOOR CLASSROOMS	DANFOSS	RETURN FAN	7.5	YES	208/3/60	
RETURN AIR FAN #1	RF-3	EXISTING MECHANICAL ROOM	GYM, CHANGE ROOMS, STAGE	DANFOSS	RETURN FAN	3	YES	208/3/60	
SUPPLY AIR UNIT #1	AHU-1	EXISTING MECHANICAL ROOM	GROUND FLOOR CLASSROOMS	DANFOSS	SUPPLY FAN	15	YES	208/3/60	
SUPPLY AIR UNIT #2	AHU-2	EXISTING MECHANICAL ROOM	SECOND FLOOR CLASSROOMS	DANFOSS	SUPPLY FAN	15	YES	208/3/60	
SUPPLY AIR UNIT #3	AHU-3	EXISTING MECHANICAL ROOM	GYM, CHANGE ROOMS, STAGE	DANFOSS	SUPPLY FAN	7.5	YES	208/3/60	
SECONDARY HEATING WATER PUMP #1	P-1	EXISTING BOILER ROOM	HEATING WATER	DANFOSS	PUMP	15	YES	208/3/60	
SECONDARY HEATING WATER PUMP #2	P-2	EXISTING BOILER ROOM	HEATING WATER	DANFOSS	PUMP	15	YES	208/3/60	

NOTES:

1. ALL VFDS TO USE BACNET MSTP.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SCHEDULE OF FANS

TAG	MANUFACTURER	MODEL	LOCATION	AREA SERVED	WEIGHT (KG)	DESIGN AIRFLOW	ESP	RPM	BHP	MOTOR HP	ELECTRICAL		REMARKS
											MCA	POWER	
						(L/S)	(PA)				(A)	(V/PH/HZ)	
SRE-1	GREENHECK	CSP-A390	STORAGE ROOM 239A	STORAGE ROOM	10	150	125	1350	0.08	-	1.8	115/1/60	1,2

NOTES

1 C/W BACKDRAFT DAMPER

2 DIRECT DRIVE FAN TO BE C/W SPEED CONTROLLER FOR BALANCING PURPOSES.

NOTE: ALL WORK RELATED TO CONDENSING UNITS AND COOLING COILS FOR EXISTING AIR HANDLING UNITS IS TO BE INCLUDED AS A SEPARATE PRICE.

SCHEDULE OF OUTDOOR CONDENSING UNITS

TAG	ASSOCIATED SYSTEM	MANUFACTURER	MODEL	WEIGHT	DIMENSIONS			COOLING PERFORMANCE					REFRIGERANT		ELECTRICAL			REMARKS
					WIDTH	LENGTH	HEIGHT	NOMINAL CAPCITY	OUTDOOR AMBIENT DB	RATED CAPACITY	NO. OF STAGES	EER	TYPE	CHARGE	MCA	MOCP	POWER (V/PH/HZ)	
				(KG)	(MM)	(MM)	(MM)	(TONS)	(°C)	(KW)								
CU-1	AHU-1	TRANE	RAUJ	1,418	2175	2243	2012	40	32	148.3	4	11.7	R410a	37	195	225	200/3/60	
CU-2	AHU-2	TRANE	RAUJ	1,511	2175	2483	2122	50	32	183.2	4	11.6	R410a	38	238	250	200/3/60	
CU-3	AHU-3	TRANE	RAUJ	851	1463	1841	1886	20	32	80.2	2	11.7	R410a	19	102	125	200/3/60	

NOTES

1 REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

2 OUTDOOR UNITS SHALL BE SECURED TO SLEEPER BEAMS. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS.

3 CONTRACTOR TO DETERMINE PIPE LENGTHS AND CONFIRM SIZING AND REFRIGERANT CHARGE WITH MANUFACTURER

4 PROVIDE ALL REQUIRED COMMUNICATION COMPONENTS FOR INTEGRATION WITH BUILDING AUTOMATION SYSTEM.

SCHEDULE OF COOLING COILS

TAG	MANUFACTURER	MODEL	LOCATION	SYSTEM SERVED	WEIGHT	DIMENSIONS			NO. OF ROWS	NO. OF CIRCUITS	DESIGN AIRFLOW	OUTDOOR AIR		DX COOLING								REMARKS
						W	L	H						EVAPORATOR						OAT (°C)	REF. TYPE	COIL REF. CHARGE (LBS)
														CAPACITY (KW)		EAT (°C)		LAT (°C)				
					(KG)	(MM)	(MM)	(MM)			(L/S)	(L/S)	%	SENSIBLE	TOTAL	DB	WB	DB	WB	DB		
CC-1	TRANE	DFB42068G0DB150D AJA0-BDAA00	EXISTING MECH. RM	AHU-1	102	241	1727	1067	4	2	5,380	2,690	50	89.8	148.3	26.4	19.8	12.7	11.8	30	R410A	10.4	
CC-2	TRANE	DFDB42081G0DB149 DAJA0-BDBA00	EXISTING MECH. RM	AHU-2	121.3	241	2057	1067	4	2	6,418	3,208	50	109.9	183.4	26.4	19.8	12.4	11.5	30	R410A	12.0	
CC-3	TRANE	DFDB30058G0EB130 DAJA0-BDAA00	EXISTING MECH. RM	AHU-3	92.2	318	1473	762	6	1	3,068	1,534	50	50.7	80.1	26.4	19.8	12.9	12.3	30	R410A	9.5	

NOTES

1 CONTRACTOR TO DETERMINE PIPE LENGTHS AND CONFIRM SIZING AND REFRIGERANT CHARGE WITH MANUFACTURER

2 CONTRACTOR TO SITE VERIFY COIL DIMENSIONS.

LOOSE MOTOR STARTER SCHEDULE

ITEM NO.	DESCRIPTION	MOTOR HP	FULL LOAD (AMPS)	COMBINATION STARTER & DISCONNECT				MODIFICATIONS						BRANCH FEEDERS		WP DISCONNECT AT MOTOR	DISCONNECT AT MOTOR	DISCONNECT ONLY	F.A. SHUT DOWN	REMARKS
				FUSED DISC.		STARTER		CONTROL TRANSFORMER (24V)	START/STOP PUSH BUTTON	H.O.A. SELECTOR SWITCH	PILOT LIGHT	AUX. CONT.		CABLE OR BUS	CONDUIT SIZE					
				REQUIRED	FUSE	SIZE	TYPE					NORMALLY OPEN	NORMALLY CLOSED							
SRE-1	239A STORAGE RM EXHAUST	0.08	1.4	NOTE 2	NOTE 2	1	FVNR	YES	-	YES	YES	2	2	NOTE 2	NOTE 2	-	YES	-	-	115/1/60
CUH-1	STAIR A	1/10	1.9	NOTE 2	NOTE 2	1	FVNR	YES	-	YES	YES	2	2	NOTE 2	NOTE 2	-	YES	-	-	115/1/60

NOTES

1. ALL STARTERS TO BE COMPLETE WITH EXTERNAL OVERLOAD RESET PUSH BUTTONS.
2. REFER TO ELECTRICAL FLOOR PLANS, PANEL SCHEDULES, AND SINGLE LINE DIAGRAM FOR ELECTRICAL REQUIREMENT SUCH AS FUSE SIZE, CIRCUIT, BRANCH FEEDER, BREAKER REQUIREMENT.

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

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DURHAM CATHOLIC DISTRICT SCHOOL BOARD
Learning and Living in Faith

NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR 60% REVIEW	2026-08-14	MH
2	ISSUED FOR 80% COSTING	2026-08-28	MH
3	ISSUED FOR 90% REVIEW	2026-10-28	MH
4	ISSUED FOR PERMIT	2026-11-03	MH
4	ISSUED FOR TENDER	2026-11-11	MH

NORTH

RDZ ENGINEERS LTD
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
MECHANICAL SCHEDULES #2

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE: Nov 2026
SCALE: N.T.S.
SEAL:

PROJECT NO: **25041**
DRAWING NO: M701

ABBREVIATION

AFCI	DENOTES ARC-FAULT CIRCUIT INTERRUPTER
CL	DENOTES CEILING MOUNTED
DW	DENOTES DISHWASHER
FR	DENOTES FRIDGE
GFI	DENOTES GROUND FAULT INTERRUPTER
IG	DENOTES ISOLATED GROUND
MW	DENOTES MICROWAVE
N	DENOTES NEW
NC	DENOTES NORMALLY CLOSED
NO	DENOTES NORMALLY OPEN
OC	DENOTES OVER COUNTER
TYP	DENOTES TYPICAL
VFD	DENOTES VARIABLE FREQUENCY DRIVE
W	DENOTES WASHER
WP	DENOTES WEATHERPROOF
H/L	DENOTES HIGH LEVEL
L/L	DENOTES LOW LEVEL
EX	DENOTES EXISTING ITEM TO REMAIN
ER	DENOTES EXISTING ITEM TO BE RELOCATED. EXTEND EXISTING CONDUIT & WIRES TO NEW LOCATION, UNLESS OTHERWISE NOTED.
RP	DENOTES EXISTING ITEM IN RELOCATED POSITION. UNLESS OTHERWISE NOTED, EXTEND EXISTING CONDUIT AND WIRES FROM ITEM PREVIOUS LOCATION AND CONNECT.
RM	DENOTES EXISTING ITEM TO BE REMOVED. REMOVE REDUNDANT WIRING AND RETAIN THE INTEGRITY OF THE EXISTING CIRCUIT(S), UNLESS OTHERWISE NOTED. MAKE ALL REMAINING WIRING SAFE.
ER/RP	DEVICES TO BE TEMPORARILY DISCONNECTED AND REMOVED FROM THEIR LOCATIONS AND RE-INSTALLED TO THE ORIGINAL LOCATIONS AND CONNECTED TO THE SAME EXISTING ELECTRICAL CIRCUITS OR ZONE CIRCUITS.

GENERAL NOTES

1. FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCH. DRAWINGS.
2. EXACT LOCATION FOR ALL OUTLETS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN.
3. FOR EXACT LOCATION OF ALL A/C UNITS, PUMPS, FANS, MOTORS, HEATERS, ETC., SEE MECHANICAL DRAWINGS.
4. EXACT LOCATION OF POWER CONNECTION POINTS OF ALL PROCESS EQUIPMENT/DEVICES SHALL BE COORDINATED WITH PROCESS CONTRACTOR AND ON SITE.
5. ALL RECEPTACLES IF LOCATED FARTHER THAN 30,000mm FROM THE RESPECTIVE ELECTRICAL PANEL'S SHALL BE WIRED WITH #10 AWG AND FARTHER THAN 60,000mm SHALL BE WIRED WITH #8 AWG. FURTHER THAN 100,000mm, CONTRACTOR SHALL CONDUCT VOLTAGE DROP CALCULATION IN COMPLIANCE WITH OESC REQUIREMENT AND UPSIZE CONDUCTOR ACCORDINGLY.
6. CO-ORDINATE ALL WORK WITH MECHANICAL CONTRACTOR AND PROCESS CONTRACTOR.
7. STARTERS FOR FANS SHALL BE LOCATED ADJACENT TO CORRESPONDING PANEL BOARDS UNLESS OTHERWISE SHOWN.
8. ELECTRICAL CONTRACTOR SHALL CO-ORDINATE THEIR WORK TO SUIT THE PROJECT PHASE SCHEDULE.
10. ALL SYSTEMS CONDUIT(S) SHALL BE INSTALLED CONCEALED IN WALL(S) IN ALL AREAS. IF THE WALL(S) ARE NOT ACCESSIBLE/FEASIBLE FOR CONDUITS TO INSTALL INSIDE THE WALL THEN SURFACE MOUNTED SHALLOW WIREMOLD RACEWAY SHALL BE INSTALLED. INSTALLATION OF SURFACE MOUNTED CONDUIT IS NOT ACCEPTABLE.
11. PROVIDE BUSHINGS AT BOTH ENDS OF EACH CONDUIT/SLEEVE TERMINATED IN CEILING SPACE.
12. ALL EMPTY CONDUITS SHALL BE COMPLETE WITH PULLSTRINGS.
13. PROVIDE BLANK COVER PLATES FOR ALL UNUSED NEW AND EXISTING OUTLET BOXES.
14. FOR INSTALLATION OF ELECTRICAL EQUIPMENT/DEVICES, PROVIDE ASSOCIATED FREE STANDING UNISTRUTS/MOUNTING BRACKETS (BOLTED TO THE FLOOR) IF REQUIRED.
15. REFER TO AV DRAWING FOR ALL CONDUITS QUANTITY, ROUTING, TERMINATION REQUIREMENT. ALL COST SHALL BE INCLUDE IN THE TENDER.
16. PROVIDE SHALLOW-TYPE RACEWAY FOR ALL SURFACE-MOUNTED DEVICES TO CONCEAL ALL WIRING.

ELECTRICAL EQUIPMENT MOUNTING HEIGHTS

(HANDICAP ACCESSIBLE AREAS)

1. ELECTRICAL OUTLETS AND TELEPHONE OUTLETS: 400mm A.F.F. TO BOTTOM OF OUTLET UNLESS OTHERWISE NOTED.
2. LIGHT SWITCHES: 1000mm A.F.F. TO TOP OF SWITCHES
3. TEMPERATURE SENSING DEVICES: 1200mm A.F.F. TO TOP OF OUTLET BOX. (SEE MECHANICAL).
4. WALL MOUNTED TELEPHONE: 1200mm A.F.F. TO TOP OF OUTLET
5. FIRE ALARM PULL STATIONS: 1200mm A.F.F. TO TOP OF OUTLET
7. ELECTRICAL PANELS: 1800mm A.F.F. TO TOP OF PANEL
8. FIRE ALARM BELL: 2400mm A.F.F. TO TOP OF OUTLET BOX
9. COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECT/OWNER PRIOR TO ANY ROUGH-IN.

NOTES: (RE-DEMOLITION LAYOUT)

1. DEMOLITION OF EXISTING MATERIALS AND/OR EQUIPMENT AS SHOWN ON DRAWINGS BY ELECTRICAL CONTRACTOR. WORK SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH APPLICABLE PROVINCIAL AND MUNICIPAL BY-LAWS AND REGULATIONS.
2. DISCONNECT AND REMOVE ALL EQUIPMENT DESIGNATED FOR REMOVAL, RECONNECT ALL EQUIPMENT WHERE REQUIRED AND DISCONNECT AND CAP, OR ARRANGE FOR DISCONNECTING AND CAPPING, ALL MAIN SERVICES IN ACCORDANCE WITH THE AUTHORITIES HAVING JURISDICTION.
3. ALL MATERIALS AND/OR EQUIPMENT DESIGNATED FOR SALVAGE SHALL BE TURNED OVER TO THE OWNER. ALL OTHER MATERIALS AND/OR EQUIPMENT DESIGNATED FOR REMOVAL BECOMES THE PROPERTY OF THE DEMOLITION CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. UNDER NO CIRCUMSTANCES SHALL THE MATERIALS AND/OR EQUIPMENT BE SOLD DIRECTLY FROM THE SITE.
4. CONTACT OWNER PRIOR TO ANY DEMOLITION WORK. THE OWNER WILL DESIGNATE WHICH EQUIPMENT AND/OR MATERIALS ARE TO BE SALVAGED. DEMOLITION WORK IS TO PROCEED ONLY AFTER OWNER'S APPROVAL HAS BEEN OBTAINED.
5. FOR EXACT LOCATION OF MECHANICAL EQUIPMENT WHICH SHALL BE REMOVED, COORDINATE WITH MECHANICAL DIVISION DRAWINGS.
6. FOR ALL EXISTING EQUIPMENT WHICH SHALL BE REMOVED, ELECTRICAL CONTRACTOR SHALL MAKE WIRING SAFE.
7. FOR EXACT LOCATION OF ALL EXISTING EQUIPMENT COORDINATE ON SITE.
8. MAKE REMAINING WIRING SAFE AND REMOVE ALL REDUNDANT CONDUITS AND WIRES BACK TO PANEL OF ORIGIN. ADJUST ALL EXISTING WIRING TO ACCOMMODATE LAYOUT CHANGES AND TO KEEP OPERATIONAL EXISTING ELECTRICAL EQUIPMENT AND DEVICES.
9. COORDINATE WITH OWNER THE DISPOSAL OF ALL REDUNDANT DEVICES AND/OR MATERIALS RESULTED FROM ELECTRICAL DEMOLITION.
10. VISIT SITE, EXAMINE EXISTING CONDITIONS, FULLY UNDERSTAND THE FUNCTIONING OF THE SYSTEM DESCRIBED AND SPECIFIED UNDER THIS SECTION. IF IN DOUBT, CONTACT ENGINEER BEFORE SUBMITTING THE TENDER PRICE. NO ALLOWANCE WILL BE ALLOWED LATER DUE TO FAILURE OF THIS DIVISION TO MAKE THIS EXAMINATION.
11. EXISTING ELECTRICAL EQUIPMENT WHICH BECOMES REDUNDANT SHALL BE COMPLETELY DISCONNECTED AND REMOVED FROM THE SITE.
12. FOR EXISTING EQUIPMENT WHICH SHALL BE RELOCATED ADJUST CONDUITS AND WIRES TO SUIT. EXISTING EQUIPMENT TO REMAIN ARE SHOWN FOR CLARIFICATION ONLY.
13. WHENEVER EXISTING ELECTRICALLY OPERATED EQUIPMENT IS REMOVED FROM ITS PRESENT LOCATION OR RE-INSTALLED ELSEWHERE, REMOVE REDUNDANT EXISTING CONDUITS, BOXES, CABLES, FIXTURES, ETC. OPENINGS IN BOXES, RACEWAYS, PANELS, ETC. WHICH MAY RESULT FROM SUCH REMOVAL OF EQUIPMENT, SHALL BE CLOSED IN PROPER MANNER AND ALL CABLES AND WIRES PROPERLY TERMINATED AND INSULATED TO RESTORE THE SYSTEM TO A SAFE AND SOUND CONDITION AND TO THE ARCHITECTS SATISFACTION.
14. IN EVERY INSTANCE WHERE IT IS REQUIRED IN THE SPECIFICATION OR DRAWING THAT EQUIPMENT AND MATERIALS TO BE REMOVED FROM EXISTING LOCATIONS AND RE-INSTALLED, EITHER IN WHOLE OR IN PART, IN NEW LOCATIONS, ALL SUCH EQUIPMENT AND MATERIALS SHALL BE THOROUGHLY CLEANED AND WHERE NECESSARY PUT INTO GOOD OPERATING CONDITION BEFORE BEING RE-INSTALLED IN THE NEW LOCATION.
15. WHERE THE EXISTING EQUIPMENT IS NOT TO BE ULTIMATELY RELOCATED BUT INTERFERES WITH THE CONSTRUCTION, THE EQUIPMENT SHALL BE TEMPORARILY RELOCATED UNTIL SUCH TIME AS THE NEW WORK IS COMPLETED SERVICES TO TEMPORARILY RELOCATED EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.
16. WHERE A DEVICE OR EQUIPMENT IS REMOVED, ALL ASSOCIATED SURFACE CONDUITS, PULL BOXES SHALL BE TERMINATED AND ABANDONED IN CEILING SPACE AND SHALL BE MADE SAFE. ALL ASSOCIATED CONDUITS AND OUTLET BOXES/PULL BOXES INSIDE THE REMAINING WALLS SHALL REMAIN AND PROVIDE BLANK COVERS FOR UNUSED BOXES. ALL ASSOCIATED WIRING/DATA CABLES/VOICE CABLES SHALL BE REMOVED FROM SOURCE.
17. TEST ALL PARTS OF THE RE-USED OR RELOCATED ELECTRICAL EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDS.
18. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK TO SUIT THE PROJECT PHASE SCHEDULE.
19. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL CONDUIT AND WIRING OF MECHANICAL EQUIPMENT TO BE REMOVED UNLESS OTHERWISE NOTED.
20. ALL REDUNDANT, OBSOLETE COMMUNICATION AND POWER WIRING, CONDUIT AND JUNCTION BOXES SHALL BE REMOVED.

ELECTRICAL DRAWING LIST

DRAWING NO.	DRAWING NAME
E001	DRAWING LIST, SYMBOL LIST AND NOTES
E002	ELECTRICAL RISER DIAGRAM
E003	PANEL SCHEDULE
E004	FIRE ALARM SCHEDULE
E005	FIRE ALARM ACTIVE GRAPH
E101	ELECTRICAL KEY PLAN
E201	ELECTRICAL DEMOLITION PLAN (1)
E202	ELECTRICAL DEMOLITION PLAN (2)
E301	ELECTRICAL LIGHTING ADDITIONAL PLAN- FIRST FLOOR
E302	ELECTRICAL LIGHTING ADDITIONAL PLAN- SECOND FLOOR
E401	ELECTRICAL POWER AND F.A. ADDITIONAL PLAN- FIRST FLOOR
E402	ELECTRICAL POWER AND F.A. ADDITIONAL PLAN- SECOND FLOOR
E403	ELECTRICAL POWER ADDITIONAL PLAN- ROOF FLOOR
E404	ELECTRICAL MODIFICATION PLAN- FIRST FLOOR WASHROOM
E405	ELECTRICAL MODIFICATION PLAN- SECOND FLOOR
E406	ELECTRICAL MODIFICATION PLAN- GYM AREA
E407	ELECTRICAL MODIFICATION PLAN- ROOF FLOOR
E408	EXISTING ROOF FLOOR MODIFICATION PLAN
E501	ELECTRICAL DETAILS (1)
E601	ELECTRICAL ROOM CONTROLLER DETAIL (1)
E602	ELECTRICAL ROOM CONTROLLER DETAIL (2)

LUMINARIES SCHEDULE

TYPE	WATT (W)	VOLT (V)	CT (K)	LUMENS (LM)	DESCRIPTION	MANUFACTURER
A	27.3	120	4000	3900	1'x4' RECESSED MOUNTED LED LIGHT PANEL C/W T-BAR CEILING KIT AND BUILT IN OCCUPANCY SENSOR	COOPER CAT.#14CZ2-39-UNV-L840-CD1-WLS-U
AA	27.3	120	4000	3900	SAME AS TYPE A, EXCEPT C/W DRYWALL CEILING MOUNT KIT AND BUILT IN OCCUPANCY SENSOR	COOPER CAT.#14CZ2-39-UNV-L840-CD1-U-DF-14W-WLS-U
B	39.6	120	4000	5000	2'x4' RECESSED MOUNTED LED LIGHT PANEL C/W T-BAR CEILING KIT	COOPER CAT.#24CZ2-50-UNV-L840-CD1-U
C	35	120	4000	4214	WALL MOUNTED 4' LONG CHANNEL STRIP LED LIGHT FIXTURE C/W ROUND FULL FROST LENS	COOPER CAT.#4SNLED-LD5-41SL-LW-UNV-L840-CD1-U
R	30	120	4000	3900	LED WALLPACK C/W PHOTO CELL SENSOR. CONTRACTOR SHALL MATCH THE EXISTING WALL PACK FIXTURE COLOR TEMPERATURE	IP CAT.# IP65-208200-B-LCS1-WF-120/347-PC

EMERGENCY UNITS

ES1		UNIVERSAL MOUNTED GREEN RUNNING MAN PICTOGRAM C/W BUILT IN BATTERY	LUMACELL, CAT.#CM-SS-ACDC-L
ES2		UNIVERSAL MOUNTED GREEN RUNNING MAN PICTOGRAM C/W BUILT IN BATTERY	LUMACELL, CAT.#CM-SC-L
BU1		WALL MOUNT 12V BATTERY COMPLETED WITH TWO REMOTE HEAD	LUMACELL, CAT.#RG12S360
EH		12V REMOTE HEAD SINGLE CUBE / TWIN CUBE AS DRAWING	LUMACELL, CAT.#RSQB / RSQBD-LD10-X-X

LIGHTING CONTROL SCHEDULE

OS	DUAL TECH WALL MOUNTED OCCUPANCY SENSOR	COOPER, CAT. #OAWC-DT-120W-R C/W OCCUPANCY SENSOR COUPLER COOPER, #OCC-RJ45
OS	DUAL TECH CEILING MOUNTED OCCUPANCY	SENSOR COOPER, CAT. #OAC-DT-1000-R C/W OCCUPANCY SENSOR COUPLER COOPER, #OCC-RJ45
$LV	LOW VOLTAGE WALL STATION COMPLETE WITH ASSOCIATE POWER PACKS	COOPER CAT.# WST-C-1-*
$LVD	LOW VOLTAGE WALL STATION WITH DIMMING OPTION COMPLETE WITH ASSOCIATE POWER PACKS	COOPER CAT.# WST-C-3D-*
OS LV	WALL MOUNTED DUAL TECH LOW VOLTAGE SENSOR COMPLETE WITH ASSOCIATE POWER PACKS	COOPER CAT.# ONW-D-1001-SP
OS LV	CEILING MOUNTED DUAL TECH LOW VOLTAGE SENSOR COMPLETE WITH ASSOCIATE POWER PACKS & RJ45 CABLES	COOPER WAVELINX CAT.# OCS-C-D12

LEGEND OF SYMBOLS

POWER AND SYSTEMS LEGEND

W	15A, 120V TAMPER-RESISTANT DUPLEX RECEPTACLE. (W - WASHER)
	15A, 120V TAMPER-RESISTANT DUPLEX RECEPTACLE COMPLETE WITH USB CHARGER (HUBBELL CAT.#USB15ACPDW)
GFI	15A, 120V GROUND FAULT INTERRUPTER TAMPER-RESISTANT DUPLEX RECEPTACLE
GFI	15A, 120V GROUND FAULT INTERRUPTER, TAMPER-RESISTANT DUPLEX RECEPTACLE. MOUNTED ABOVE COUNTER (150mm ABOVE BACK SPLASH).
GFI WP	15A, 120V WEATHERPROOF GFI TYPE TAMPER-RESISTANT DUPLEX RECEPTACLE
PC	15A, 120V DUPLEX RECEPTACLE MOUNTED AT HIGH LEVEL BELOW CEILING ABOVE PROJECTOR / SMART BOARD LOCATION ON TEACHER WALL FOR PROJECTOR / SMART BOARD.
	15/20A, 120V TAMPER-RESISTANT QUAD RECEPTACLE
	15/20A, 120V, 1Ø COMBINATION TAMPER-RESISTANT DUPLEX RECEPTACLE ("NEMA" 5-20R 125V, 2POLE, 3 WIRE, GROUNDED)
AC GFI	15/20A, 120V, 1Ø COMBINATION TAMPER RESISTANT DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER ("NEMA" 5-20R 125V, 2POLE, 3 WIRE, GROUNDED) (GFI - GROUND FAULT INTERRUPTER)
	15A, 120V TAMPER-RESISTANT DUPLEX RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR THROUGH RECEPTACLE RATED SWITCHPACK/ROOM CONTROLLER. REFER TO DETAIL #1/E402
GFI WP	15/20A,120V COMBINATION WEATHERPROOF GFI DUPLEX RECEPTACLE C/W WEATHERPROOF IN-USE COVER AND "EXTRA DUTY" LABEL, SIMILAR TO HUBBELL CAT#MX3200.
	JUNCTION BOX C/W 15A, 120V CIRCUIT MOUNTED IN ACCESSIBLE CEILING SPACE
	HUBBELL SYSTEM ONE 2-GANG CONCRETE FLOOR BOX CAT.#CFB2G25R, COVER CAT.#CFBS1R6CVRXX (COLOR TO BE CONFIRMED BY ARCHITECT) C/W 15A, 120 DUPLEX RECEPTACLE, DATA OUTLET BOX AND ASSOCIATED DEVICE SUB-PLATE CAT.#S1SPDUSL AND ALL ASSOCIATED REQUIRED COMPONENTS FOR COMPLETE INSTALLATION.
	120V JUNCTION BOX
	SPECIAL OUTLET (SIZE AND EQUIPMENT AS NOTED, CONNECT TO EQUIPMENT)
C MD	15A, 120V OUTLET FOR C - CONTROLS; MD - MOTORIZED DAMPER (CONNECT TO EQUIPMENT)
HD	HAND DRYER C/W 2#10 FEEDER (CONNECT TO UNIT)
	WALL MOUNTED SINGLE JACK COMPUTER OUTLET. RUN ASSOCIATED CONDUIT AND TERMINATE IN ACCESSIBLE CEILING SPACE. TERMINATION OF CONDUITS IN EXPOSED OR IN GYPSUM BOARD CEILINGS IS NOT ACCEPTABLE.
A/V	FLUSH MOUNTED A/V OUTLET BOX COMPLETE WITH 27mm EMPTY CONDUIT TO ACCESSIBLE CEILING SPACE.
FAX P	WALL MOUNTED OUTGOING TELEPHONE SYSTEM OUTLET. PROVIDE OUTLET BOX C/W 21mm CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE (TERMINATION OF CONDUIT ABOVE GYPSUM BOARD CEILINGS OR IN EXPOSED CEILING AREAS ARE NOT ACCEPTABLE), JACK, HANDSET, COVER PLATE AND WIRING. (P-DENOTES PUBLIC PHONE; FAX - DENOTES FAX MACHINE).
WAP	TWO COMPUTER DROPS IN ACCESSIBLE CEILING SPACE FOR A WIRELESS ACCESS POINT, EACH CONSISTING OF ONE COMPUTER JACK WITH ASSOCIATED COMPUTER CABLE, INCLUDING 7500MM OF SLACK COILED AT THE JACK END. THE WIRELESS ACCESS POINT DEVICE WILL BE SUPPLIED AND INSTALLED BY THE SCHOOL BOARD.
VOIP	FLUSH WALL-MOUNTED OR PLUGMOLD-MOUNTED COMPUTER OUTLET BOX FOR VOIP PHONE USE, COMPLETE WITH A SINGLE COMPUTER JACK, COVER PLATE, 21MM CONDUIT, AND ASSOCIATED COMPUTER CABLE. THE 21MM CONDUIT SHALL TERMINATE IN ACCESSIBLE CEILING SPACE. TERMINATION OF CONDUIT IN EXPOSED AREAS OR WITHIN GYPSUM BOARD CEILINGS IS NOT PERMITTED.
A	PUBLIC ADDRESS SYSTEM ADMINISTRATIVE CONTROL CONSOLE
S	WALL MOUNTED P.A. SPEAKER C/W CALL SWITCH.
	P.A. SPEAKER VOLUME CONTROL
WP WG	WALL MOUNTED P.A. SPEAKER. (WP DENOTES WEATHERPROOF. WG DENOTES COMPLETE WITH WIRE GUARD).
P	CEILING MOUNTED P.A. SPEAKER
	BATTERY OPERATED CLOCK SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION (SEE SPECIFICATIONS)
TV	WALL MOUNTED OUTLET BOX COMPLETE WITH 21mm EMPTY CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE. PROVIDE STAINLESS STEEL BLANK COVERPLATE. (TERMINATION OF CONDUIT ABOVE GYPSUM BOARD CEILINGS OR IN EXPOSED CEILING AREAS IS NOT ACCEPTABLE)
	OUTLET BOX C/W BLANK COVER PLATE FOR REMOTE THEATRICAL LIGHTING CONSOLE CONNECTION OF THEATRICAL LIGHTING. RUN 21mmEC AND TERMINATE IN ACCESSIBLE CEILING SPACE UNLESS OTHERWISE NOTED.
CP	CONTROL PANEL (REFER TO DETAIL #4 ON THIS DWG.)
JB	JUNCTION OR PULL BOX
	HEATER C/W BUILT-IN THERMOSTAT
	ELECTRIC MOTOR (WIRING & EQUIPMENT AS NOTED)
	EMERGENCY PUSH BUTTON (RED MUSHROOM TYPE) LABELED "POWER" SHALL BE CONNECTED TO CORRESPONDING LIGHTING PANEL FOR SHUT DOWN OF POWER.
EXP RT WP	DISCONNECT SWITCH (WP DENOTES WEATHERPROOF, RT DENOTES RAINTIGHT, EXP DENOTES EXPLOSION PROOF)
P	MANUAL MOTOR STARTER SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY ELECTRICAL DIV. (P - DENOTES PILOT LIGHT)
SC	SPEED CONTROLLER FOR CEILING FAN (SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY ELECTRICAL DIV.)
P	MAGNETIC MOTOR STARTER SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY ELECTRICAL DIV. (P - DENOTES PILOT LIGHT)
H	FUSED COMBINATION MAGNETIC MOTOR STARTER (SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY ELECTRICAL DIV.)
TV	OUTLET BOX FOR FLUSH WALL MOUNTED CABLE T.V. SYSTEM. RUN 19 MMC AND TERMINATE IN ACCESSIBLE CEILING SPACE. TERMINATION OF CONDUIT IN EXPOSED OR DRYWALL CEILING AREAS IS NOT ACCEPTABLE.
TS	TIMESWITCH
C	H.O.A. CONTACTOR C/W PILOT LIGHT
T	LINE VOLTAGE THERMOSTAT (SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY ELECTRICAL DIV.)
TH	FLUSH WALL MOUNTED OUTLET BOX (FOR TEMPERATURE SENSOR) COMPLETE WITH 16MM EMPTY CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE UNLESS OTHERWISE NOTED (TEMPERATURE SENSOR AND WIRING BY MECHANICAL DIV.)
E	OUTLET FOR PUSH FOR EMERGENCY ASSISTANCE BUTTON
P	OUTLET FOR HANDICAPPED PUSH BUTTON
L	OUTLET FOR PUSH TO LOCK BUTTON
	PUSH BUTTON
	SURFACE OR FLUSH MOUNTED ELECTRICAL PANELS
	DISTRIBUTION PANEL OR SPLITTER TROUGH
TX-X	DRY TYPE TRANSFORMER

LIGHTING LEGEND

	RECESSED OR SURFACE MOUNTED LED FIXTURE
	LED FIXTURE WALL OR CEILING MOUNTED
	SAME AS ABOVE EXCEPT ON EMERGENCY LIGHT CIRCUIT
	EXIT SIGN WALL OR CEILING MOUNTED (CONNECT TO CORRESPONDING BATTERY UNIT) - TRIANGLE DENOTES C/W HEAD LIGHT - ARROW DENOTES DIRECTION OF TRAVEL
WP K $ 3 4	120 VOLT LIGHTING TOGGLE SWITCH (K DENOTES KEY-OPERATED, 3 DENOTES THREE WAY, 4 DENOTES FOUR WAY, WP DENOTES WEATHERPROOF)
K 3	120V LIGHT SWITCH MOUNTED IN CONTROL PANEL (K DENOTES KEY-OPERATED, 3 DENOTES THREE WAY)
$P	120 VOLT MOTOR RATED SWITCH COMPLETE WITH PILOT LIGHT, SUPPLIED AND INSTALLED BY ELECTRICAL DIV.
OS	WALL MOUNTED OCCUPANCY SENSOR FOR LIGHTING CONTROL
OS	CEILING MOUNTED OCCUPANCY SENSOR FOR LIGHTING CONTROL
D	DIMMER SWITCH
PC	PHOTOCELL SENSOR FOR LIGHTING CONTROL

FIRE ALARM LEGEND

H	CEILING MOUNTED FIRE ALARM HORN
H	CEILING MOUNTED COMBINATION OF FIRE ALARM HORN & STROBE
H	WALL MOUNTED FIRE ALARM HORN
H	WALL MOUNTED COMBINATION OF FIRE ALARM HORN & STROBE
	FIRE ALARM STROBE
AUX WP WG	FIRE ALARM MANUAL PULL STATION (WP DENOTES WEATHERPROOF; AUX DENOTES COMPLETE WITH AUXILIARY CONTACT; WG DENOTES WIREGUARD/COVER.)
S (W)	FIRE ALARM SMOKE DETECTOR (W DENOTES COMPLETE WITH WIREGUARD)
H (W)	FIRE ALARM HEAT DETECTOR (W DENOTES COMPLETE WITH WIREGUARD)
S/A R/A	FIRE ALARM SMOKE DETECTOR (COMPLETE WITH PILOT LIGHT) MOUNTED IN SUPPLY AND/OR RETURN DUCT
SA	STANDALONE SMOKE ALARM DEVICE COMBO WITH CO
	FIRE ALARM SUPERVISORY VALVE
	FIRE ALARM SPRINKLER FLOW SWITCH
FAA	REMOTE FIRE ALARM ANNUNCIATOR
	FIRE ALARM PANEL
FAAG	ACTIVE GRAPHIC
FAPG	PASSIVE GRAPHIC
DGP	FIRE ALARM DATA GATHER PANEL
	END OF LINE RESISTOR
ISO	ISOLATION MODULE

SECURITY LEGEND

DC	OUTLET FOR SECURITY SYSTEM DOOR CONTACT COMPLETE WITH 21mm EMPTY CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE.
OHDC	OUTLET FOR SECURITY SYSTEM OVERHEAD DOOR CONTACT COMPLETE WITH 21mm EMPTY CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE, MOUNTED AT THE TOP OF OVERHEAD DOORS.
DH	50mm X 100mm X 38mm FLUSH MTD. JUNCTION BOX C/W WIRING FOR DOOR HOLDERS (CONNECT TO UNIT & COORDINATE WITH ARCHITECT)
KP	FLUSH WALL MOUNTED OUTLET FOR REMOTE SECURITY SYSTEM KEYPAD COMPLETE WITH 21mm EMPTY CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE
CR WP	OUTLET BOX FOR CARD READER (WP DENOTES WEATHERPROOF), COMPLETE WITH 21mm EMPTY CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE
ES	OUTLET BOX FOR ELECTRIC STRIKE COMPLETE WITH 21mm EMPTY CONDUIT TERMINATED IN DOOR FRAME AND IN ACCESSIBLE CEILING SPACE ABOVE THE DOOR. ELECTRIC STRIKE SHALL BE BY OTHERS.
MD	OUTLET FOR SECURITY SYSTEM MOTION DETECTOR COMPLETE WITH 21mm EMPTY CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE
CCTV WP	FLUSH WALL OR CEILING MOUNTED OUTLET FOR VIDEO SURVEILLANCE CAMERA, UNLESS OTHERWISE NOTED, RUN 21mm CONDUIT AND TERMINATE IN CORRIDOR CABLE DUAL HANGERS, TERMINATION OF CONDUIT IN EXPOSED OR DRYWALL CEILING AREAS IS NOT ACCEPTABLE. (WP DENOTES WEATHERPROOF)
S	OUTLET FOR SECURITY SIREN HORN

SINGLE LINE DIAGRAM SYMBOLS

	TRANSFORMER
	BREAKER
	AUTOMATIC TRANSFER SWITCH WITHOUT BYPASS
	AUTOMATIC TRANSFER SWITCH WITH MAINTENANCE BYPASS
	FIRE PUMP AUTOMATIC TRANSFER SWITCH COMPLETE WITH STARTER UNIT (BY OTHER)
G	EMERGENCY GENERATOR
	FUSED DISCONNECT SWITCH
	UN-FUSED DISCONNECT SWITCH
HF	HARMONIC FILTER (SUPPLIED BY OTHERS, WIRED BY ELECTRICAL DIVISION)
VFD	VARIABLE FREQUENCY DRIVE (SUPPLIED BY OTHERS, WIRED BY ELECTRICAL DIVISION)
METER CABINET	HYDRO METER CABINET
DM	DIGITAL METERING
GFP	GROUND FAULT PROTECTION

ABBREVIATION (APPLY TO ALL LEGENDS OF SYMBOL):

WP - C/W WEATHERPROOF IN-USE COVER AND "EXTRA DUTY" LABEL
GFI - GROUND FAULT INTERRUPTER
WG - C/W WIRE GUARD
D - DRYER
HD - HAND DRYER
MD - MOTORIZED DAMPER
HT - HEAT TRACING
RT - DENOTES RAINTIGHT
EXP - DENOTES EXPLOSION PROOF

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NORTH

RDZ ENGINEERS LTD
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
DRAWING LIST, SYMBOL LIST AND NOTES

DESIGN BY: TH
DRAWN BY: TH
CHECKED BY: FH
DATE: -
SCALE: AS SHOWN
SEAL:

PROJECT NO: 25041
DRAWING NO: E001

LEGEND:

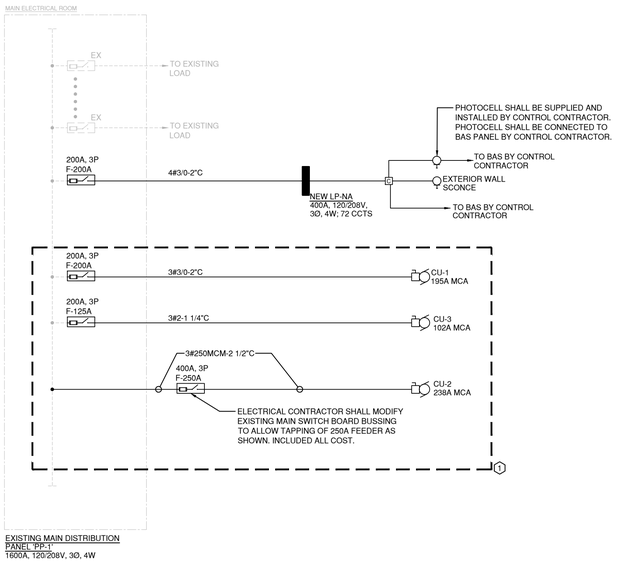
EXISTING

DEMOLITION

NEW

KEYED NOTES

1. PROVIDE A SEPARATE PRICE FOR THE ELECTRICAL POWER CONNECTIONS TO THREE (3) NEW CONDENSING UNITS ON THE ROOF, INCLUDING ALL ASSOCIATED CONDUIT, WIRING, FUSED DISCONNECT SWITCHES, AND MAINTENANCE RECEPTACLES INSTALLATION AND POWER CONNECTIONS FOR ALL EQUIPMENT.



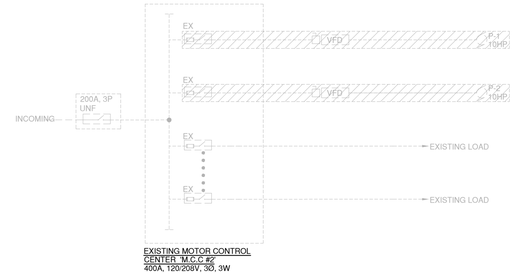
EXISTING MAIN DISTRIBUTION PANEL 'PP-1'
1600A, 120/208V, 3Ø, 4W

1 E002 POWER RISER DIAGRAM

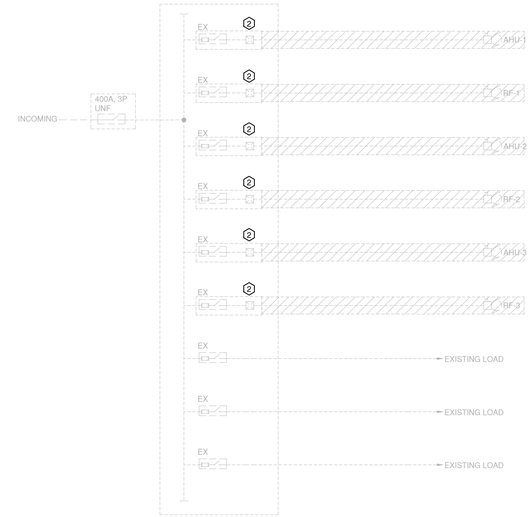
SCALE: N.T.S.

KEYED NOTES

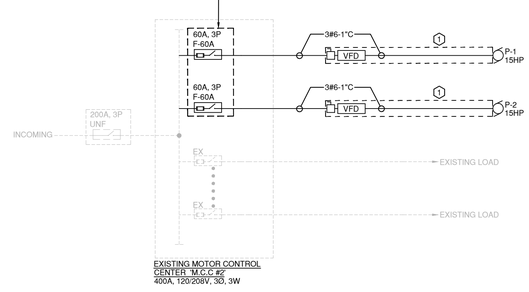
1. PROVIDE VFD CABLE FROM VFD DISCONNECT SWITCH THROUGH VFD, AND TERMINATE AT THE MOTOR DISCONNECT SWITCH TO CONNECT TO THE NEW MOTOR.
2. DISCONNECT AND REMOVE EXISTING STARTER WITHIN THE BUCKET, AND REMOVE ASSOCIATED PILOT LIGHT AND CAP IT. MODIFY EXISTING BUCKET TO HAVE FUSE ONLY. REMOVE ASSOCIATED CONTROL WIRING.
3. PROVIDE AUXILIARY CONTACT WITHIN THE DISCONNECT SWITCH AND INTERLOCK WITH THE THE VFD., SUCH THAT, WHEN THE LOCAL DISCONNECT SWITCH IS TURNED OFF, SIGNAL THE VFD TO BE SHUT OFF, AND WHEN THE DISCONNECT SWITCH IS TURNED ON, IT SHOULD ENABLE VFD TO RUN. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR ON SITE.



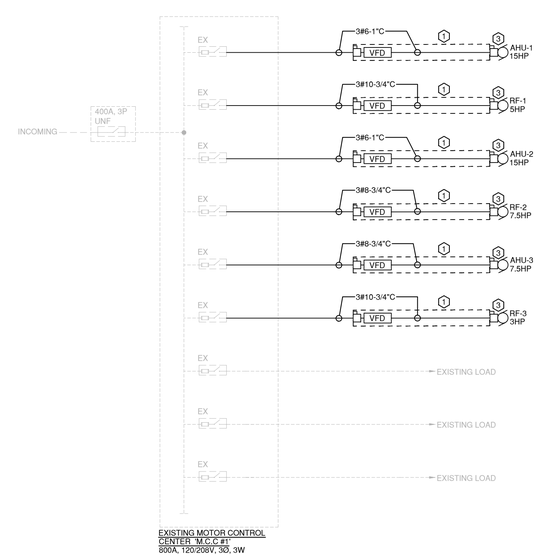
EXISTING MOTOR CONTROL CENTER 'M.C.C #2'
400A, 120/208V, 3Ø, 3W



EXISTING MOTOR CONTROL CENTER 'M.C.C #1'
800A, 120/208V, 3Ø, 3W



EXISTING MOTOR CONTROL CENTER 'M.C.C #2'
400A, 120/208V, 3Ø, 3W



EXISTING MOTOR CONTROL CENTER 'M.C.C #1'
800A, 120/208V, 3Ø, 3W

2 E002 DEMOLITION AND MODIFICATION WORK FOR MCC #1 AND MCC #2

SCALE: N.T.S.

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BBA
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL RISER DIAGRAM

DESIGN BY: TH	SEAL:
DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E002

NEW PANEL LP-'NA'

400A MAINS, 72 CCTS, 120/208V, 3Ø, 4W, 25KAIC
SURFACE MOUNTED PANEL

LOCATION: NEW MECHANICAL ROOM (239A)

DESCRIPTION	LOAD (W)	BRKR SIZE	A	B	C	BRKR SIZE	LOAD (W)	DESCRIPTION
CLASSROOM LIGHTING (RM 179 & 181)	1000	20A/1P	1		2	15A/1P	100	EXIT SIGN
CLASSROOM LIGHTING (RM 178 & 180)	1000	20A/1P	3		4	15A/1P	100	BATTERY UNIT
CLASSROOM LIGHTING (RM 241 & 243)	1000	20A/1P	5		6	15A/1P	200	CLASSROOM 179 RECP
CLASSROOM LIGHTING (RM 240 & 242)	1000	20A/1P	7		8	15A/1P	200	CLASSROOM 181 RECP
CORRIDOR LIGHTING (1/F)	100	20A/1P	9		10	15A/1P	200	CLASSROOM 178 RECP
CORRIDOR LIGHTING (1/F)	100	20A/1P	11		12	15A/1P	200	CLASSROOM 180 RECP
STUDENT WELLNESS/ OFFICE LIGHTING (1/F)	100	20A/1P	13		14	15A/1P	200	CLASSROOM 241 RECP
STAIRCASE LIGHTING	100	20A/1P	15		16	15A/1P	200	CLASSROOM 243 RECP
STAIRCASE LIGHTING	100	20A/1P	17		18	15A/1P	200	CLASSROOM 240 RECP
CLASSROOM 179 RECP	500	15A/1P	19		20	15A/1P	200	CLASSROOM 242 RECP
CLASSROOM 179 RECP	500	15A/1P	21		22	20A/1P	300	CORRIDOR RECEPTACLE (1/F)
CLASSROOM 181 RECP	500	15A/1P	23		24	20A/1P	200	CORRIDOR LIGHTING (2/F)
CLASSROOM 181 RECP	500	15A/1P	25		26	20A/1P	200	CORRIDOR LIGHTING (2/F)
CLASSROOM 178 RECP	500	15A/1P	27		28	20A/1P	150	STUDENT WELLNESS/ MECHANICAL ROOM LIGHTING (2/F)
CLASSROOM 178 RECP	500	15A/1P	29		30	15A/1P	100	MOTORIZE DAMPER
CLASSROOM 180 RECP	500	15A/1P	31		32	15A/1P	100	FSD
CLASSROOM 180 RECP	500	15A/1P	33		34	15A/1P	300	CUH-1
CLASSROOM 241 RECP	500	15A/1P	35		36	15A/1P	300	SRE-1
CLASSROOM 241 RECP	500	15A/1P	37		38	20A/1P	300	CORRIDOR RECEPTACLE (2/F)
CLASSROOM 243 RECP	500	15A/1P	39		40	15A/1P	300	WATER BOTTLE FILLER (1/F)
CLASSROOM 243 RECP	500	15A/1P	41		42	15A/1P	300	WATER BOTTLE FILLER (2/F)
CLASSROOM 240 RECP	500	15A/1P	43		44	15A/1P	300	AUTOMATIC DOOR OPERATOR
CLASSROOM 240 RECP	500	15A/1P	45		46	15A/1P	50	DOOR HOLD DEVICE
CLASSROOM 242 RECP	500	15A/1P	47		48	15A/1P	300	EXTERIOR LIGHTING
CLASSROOM 242 RECP	500	15A/1P	49		50	125A/3P	39582	RTU-01
STUDENT WELLNESS (1/F) RECP.	300	15A/1P	51		52			
STUDENT WELLNESS/ MECHANICAL ROOM (2/F) RECP.	300	15A/1P	53		54			
OFFICE (1/F) RECP.	300	15A/1P	55		56	15A/1P	300	VAV BOX (1/F)
MECHANICAL ROOM (2/F) RECP.	300	15A/1P	57		58	15A/1P	300	VAV BOX (1/F)
SPARE		15A/1P	59		60	15A/1P	300	VAV BOX (2/F)
SPARE		15A/1P	61		62	15A/1P	300	VAV BOX (2/F)
SPARE		15A/1P	63		64	20A/1P	400	SERVICE RECEPTACLE
SPARE		15A/1P	65		66			SPACE
SPARE		20A/1P	67		68			SPACE
SPARE		20A/1P	69		70			SPACE
SPACE			71		72			SPACE
TOTAL	13700						46182	

TOTAL CONNECTED LOAD	59.9

EXISTING PANEL LP-'1RA'

225A MAINS, 66 CCTS, 120/208V, 3Ø, 4W SURFACE
MOUNTED PANEL

LOCATION: EXISTING 1/F ELECTRICAL CLOSEST

DESCRIPTION	LOAD (W)	BRKR SIZE	A	B	C	BRKR SIZE	LOAD (W)	DESCRIPTION
EXISTING CIRCUIT			1		2			EXISTING CIRCUIT
EXISTING CIRCUIT			3		4			EXISTING CIRCUIT
EXISTING CIRCUIT			5		6			EXISTING CIRCUIT
EXISTING CIRCUIT			7		8			EXISTING CIRCUIT
EXISTING CIRCUIT			9		10			EXISTING CIRCUIT
EXISTING CIRCUIT			11		12			EXISTING CIRCUIT
EXISTING CIRCUIT			13		14			EXISTING CIRCUIT
EXISTING CIRCUIT			15		16			EXISTING CIRCUIT
EXISTING CIRCUIT			17		18			EXISTING CIRCUIT
EXISTING CIRCUIT			19		20			EXISTING CIRCUIT
EXISTING CIRCUIT			21		22			EXISTING CIRCUIT
EXISTING CIRCUIT			23		24			EXISTING CIRCUIT
EXISTING CIRCUIT			25		26			EXISTING CIRCUIT
EXISTING CIRCUIT			27		28			EXISTING CIRCUIT
EXISTING CIRCUIT			29		30			EXISTING CIRCUIT
EXISTING CIRCUIT			31		32			EXISTING CIRCUIT
EXISTING CIRCUIT			33		34			EXISTING CIRCUIT
EXISTING CIRCUIT			35		36			EXISTING CIRCUIT
EXISTING CIRCUIT			37		38			EXISTING CIRCUIT
EXISTING CIRCUIT			39		40			EXISTING CIRCUIT
EXISTING CIRCUIT			41		42			EXISTING CIRCUIT
EXISTING CIRCUIT			43		44			EXISTING CIRCUIT
EXISTING CIRCUIT			45		46			EXISTING CIRCUIT
RECEPTACLE	**200**	**15A/1P**	47		48			SPACE
RECEPTACLE	**200**	**15A/1P**	49		50			SPACE
RECEPTACLE	**200**	**15A/1P**	51		52			SPACE
RECEPTACLE	**200**	**15A/1P**	53		54			SPACE
AUTOMATIC DOOR OPERATOR & E-CALL	**200**	**15A/1P**	55		56			SPACE
SPARE		**15A/1P**	57		58			SPACE
SPARE		**20A/1P**	59		60			SPACE
SPARE		**20A/1P**	61		62			SPACE
SPACE			63		64			SPACE
SPACE			65		66			SPACE
TOTAL	1000						####	

TOTAL CONNECTED LOAD	1.0	NOTE: BOLD INDICATE NEW

EXISTING PANEL LP-'1RC'

60A MAINS, 30 CCTS, 120/208V, 3Ø, 4W SURFACE
MOUNTED PANEL

LOCATION: EXISTING ELECTRICAL ROOM

DESCRIPTION	LOAD (W)	BRKR SIZE	A	B	C	BRKR SIZE	LOAD (W)	DESCRIPTION
EXISTING CIRCUIT			1		2			EXISTING CIRCUIT
EXISTING CIRCUIT			3		4			EXISTING CIRCUIT
EXISTING CIRCUIT			5		6			EXISTING CIRCUIT
EXISTING CIRCUIT			7		8			EXISTING CIRCUIT
EXISTING CIRCUIT			9		10			EXISTING CIRCUIT
EXISTING CIRCUIT			11		12			EXISTING CIRCUIT
EXISTING CIRCUIT			13		14			EXISTING CIRCUIT
EXISTING CIRCUIT			15		16			EXISTING CIRCUIT
EXISTING CIRCUIT			17		18			EXISTING CIRCUIT
EXISTING CIRCUIT			19		20			EXISTING CIRCUIT
EXISTING CIRCUIT			21		22			EXISTING CIRCUIT
EXISTING CIRCUIT			23		24			SPACE
SERVICE RECEPTACLE	**400**	**20A/1P**	25		26			SPACE
SPACE			27		28			SPACE
SPACE			29		30			SPACE
TOTAL	400						####	

TOTAL CONNECTED LOAD	0.4	NOTE: BOLD INDICATE NEW

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EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST
CATHOLIC SCHOOL

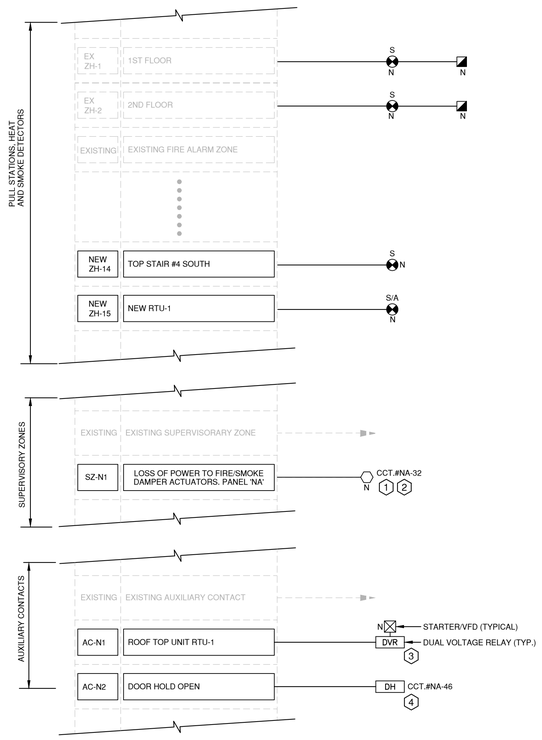
55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
PANEL SCHEDULE

DESIGN BY: TH
DRAWN BY: TH
CHECKED BY: FH
DATE: -
SCALE: AS SHOWN
SEAL:

PROJECT NO: **25041**
DRAWING NO: E003



1
E004

FIRE ALARM SCHEDULE

SCALE: N.T.S.

LEGEND:

- EXISTING EQUIPMENT
- NEW EQUIPMENT
- REMOVE EQUIPMENT

KEYED NOTES

1. CONDUCT COMMISSIONING, TESTING, OPERATION AND VERIFICATION OF ALL FIRE/SMOKE DAMPERS AND ASSOCIATED DUCT SMOKE DETECTORS AS PART OF INTEGRATED LIFE SAFETY SYSTEM TESTING COMPLY WITH S1001.
2. PROVIDE ALL NECESSARY RELAYS AND COMPONENTS TO ACHIEVE LOSS OF POWER (CIRCUIT FAILURE) OF EACH CIRCUIT FOR RESPECTIVE PANEL.
3. IN ACTUATION OF ANY FIRE ALARM ZONE, AUXILIARY CONTACTS AC-N1 SHALL BE ENERGIZED AND SHALL SHUT DOWN CORRESPONDING AIR HANDLING UNITS.

   DVR RELAYS FOR AC-N1 SHALL BE C/W THE TIME DELAY PROVISIONS. COORDINATE WITH MECHANICAL DIVISION.
4. IN ACTUATION OF ANY FIRE ALARM ZONE, AC-N2 SHALL RELEASE DOOR HOLDERS AND CAUSE THE DOORS TO SHUT.

FIRE ALARM NOTES:

1. EXISTING ADDRESSABLE FIRE ALARM SYSTEM IS - EDWARD. IT SHALL BE REPLACED WITH MIRCOM ADDRESSABLE FIRE ALARM CONTROL PANEL COMPLETE WITH ALL ASSOCIATED DEVICES & ACTIVE GRAPHIC. PROVIDE NEW TO MATCH EXISTING WITH NAC CIRCUIT TO SUPPORT NEW HORN & STROBE. COORDINATE ALL REQUIREMENT WITH MANUFACTURE.
2. PROVIDE FIRE WATCH FOR THE ENTIRE DURATION WHEN THE FIRE ALARM SYSTEM IS DOWN.
3. REPLACE EXISTING FIRE ALARM CONTROL PANEL WITH NEW AT THE SAME LOCATION. CONTRACTOR SHALL SITE CONFIRM EXISTING FIRE ALARM ZONES, SUPERVISORY ZONE AND AUXILIARY ZONE FROM THE EXISTING FIRE ALARM CONTROL PANEL. COORDINATE WITH MIRCOM MANUFACTURE AND ENSURE ALL EXISTING ZONES ARE PROGRAMMED INTO THE NEW FIRE ALARM PANEL TO SUIT. INCLUDE ALL REQUIRED DEVICES, MODULES, RELAYS, WIRING, AND ETC. FOR THE INTEGRATION.
4. CONTRACTOR TO INCLUDE THE MATERIAL & LABOR FOR PROVIDING FIVE (5) ADDITIONAL SMOKE DETECTOR, FIVE (5) ADDITION PULL STATION, FIVE (5) ADDITIONAL HORNS, FIVE (5) ADDITIONAL STROBES, TWO (2) MORE DUCT SMOKE DETECTORS, COMPLETE WITH TOTAL 200 FT OF CONDUIT AND WIRING AND ONE (1) ADDITIONAL FIRE ALARM VERIFICATION IN CONTRACT PER CONSULTANT OR BUILDING INSPECTOR DIRECTION AFTER THE COMPLETION OF FIRE ALARM VERIFICATION WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE TO CONNECT NEW FIRE ALARM CONTROL PANEL TO EXISTING FIRE ALARM COMMUNICATOR. PROVIDE ASSOCIATED CONDUIT, WIRING TO SUIT. INCLUDE ALL COST.
6. PROVIDE FIRE ALARM VERIFICATION, INCLUDING, BUT NOT LIMITED TO PROGRAMING, ASSIGNING ADDRESSES TO EACH FIRE ALARM DEVICES, TESTING AND VERIFICATION.
7. REFER TO ANNUAL FIRE ALARM TESTING REPORT IN THE SPECIFICATION FOR FURTHER DETAIL. COORDINATE WITH MANUFACTURE TO ENSURE ALL REQUIRED DEVICES & COMPONENTS ARE PROVIDED FOR A FULL SYSTEM REPLACEMENT. INCLUDE ALL COST.
8. PROVIDE FIRE ALARM VERIFICATION IN ACCORDANCE WITH CAN/ULC-S524, INCLUDING, BUT NOT LIMITED TO PROGRAMING, ASSIGNING ADDRESSES TO EACH FIRE ALARM DEVICES, TESTING AND VERIFICATION. PROVIDE S1001 INTEGRATION TESTING TO SUIT.
9. PROVIDE ALL NECESSARY RELAYS AND COMPONENTS TO ACHIEVE LOSS OF POWER (CIRCUIT FAILURE) OF EACH CIRCUIT FOR RESPECTIVE PANEL.

FIRE/SMOKE DAMPER OPERATION SEQUENCE:

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

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

FIRE/SMOKE DAMPERS:

LEGEND:



NOTES:

1. EXACT LOCATION OF FIRE/SMOKE DAMPERS SHALL BE DETERMINED AS PER MECHANICAL DRAWINGS AND ON SITE. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR
2. SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE INSTALLED MAXIMUM 1.5M FROM THE DOWNSTREAM (AIR FLOW DIRECTION) OF THE FIRE SMOKE DAMPER. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR AND ON SITE.
3. SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE COMPLETE WITH TWO (2) DPDT FORM-C RELAYS WITH 120V INPUT CONTACTS FOR FIRE/SMOKE DAMPER ACTUATOR OPERATION AND INTEGRATION SEQUENCE.

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email: info@rdzeng.ca

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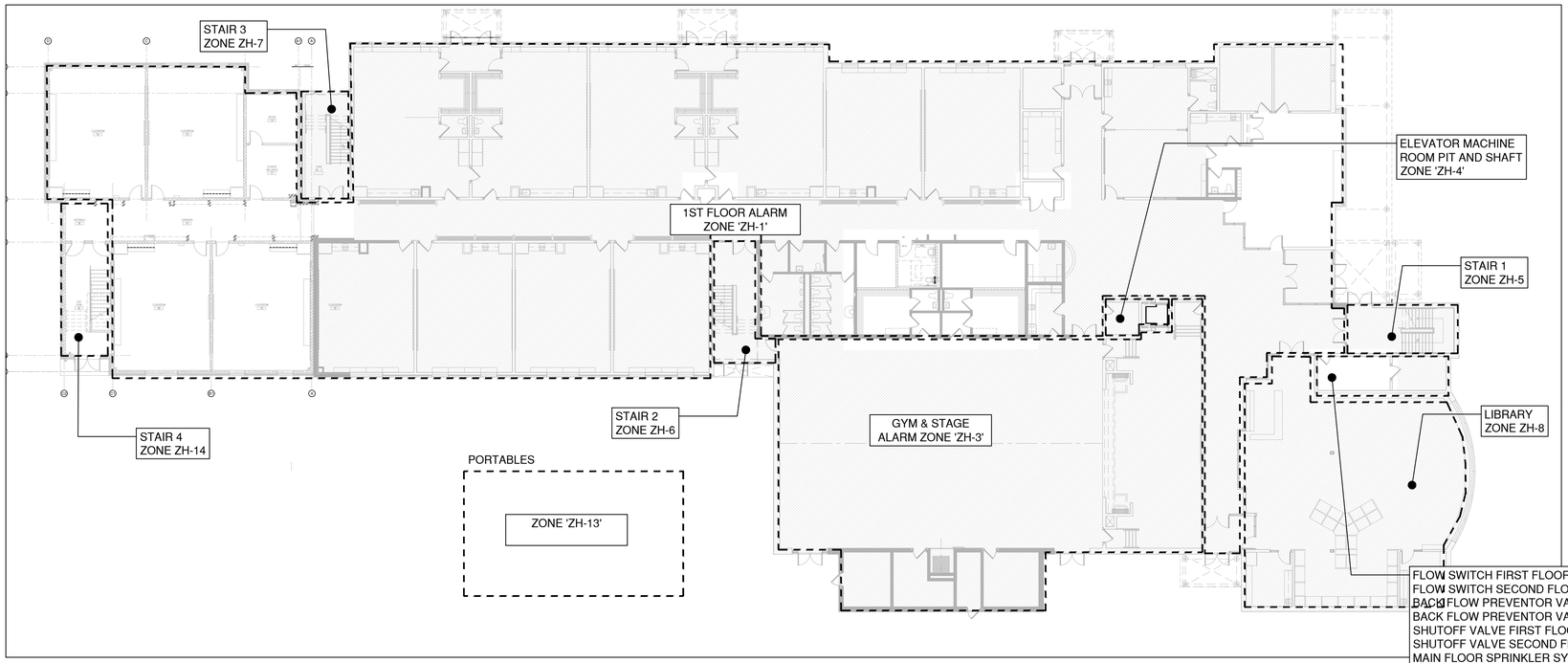
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

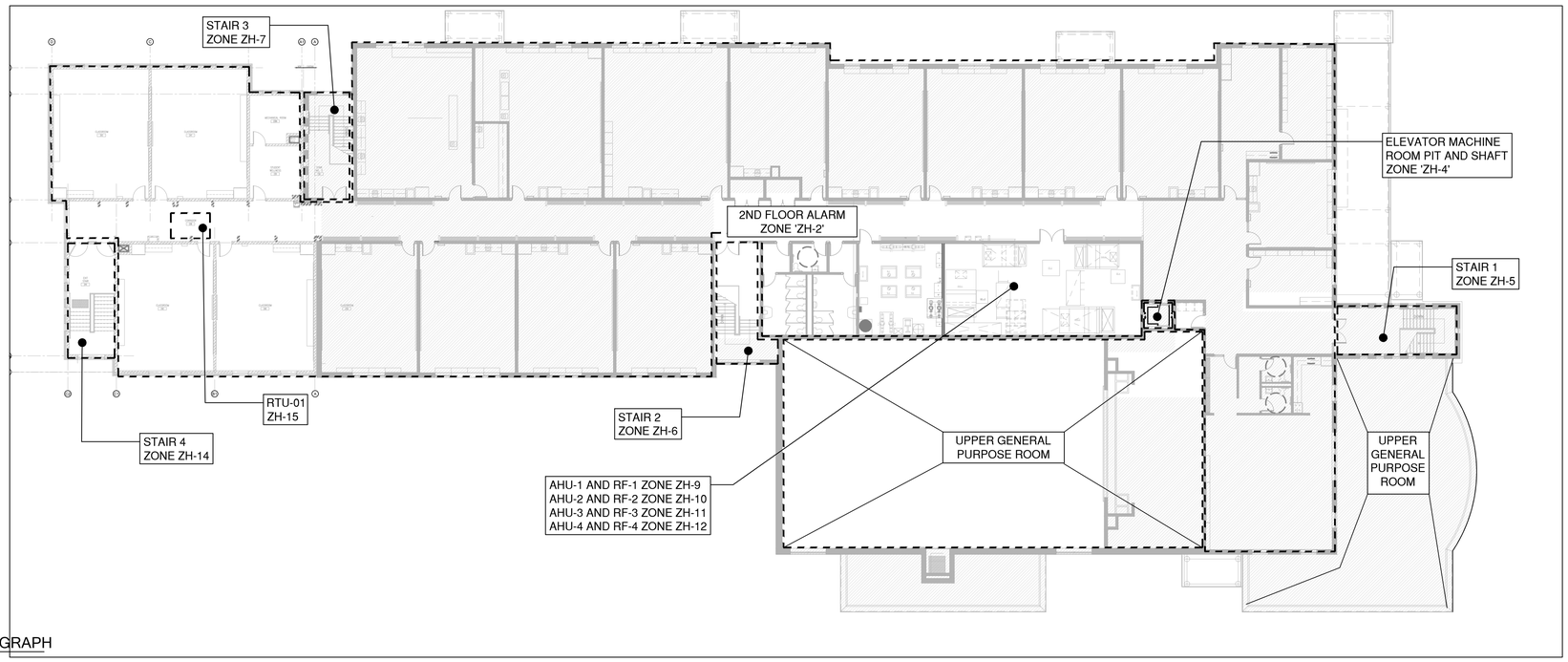
55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
FIRE ALARM SCHEDULE

DESIGN BY: TH	SEAL:
DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E004





1
E005
FIRE ALARM ACTIVE GRAPH
SCALE: 1:200

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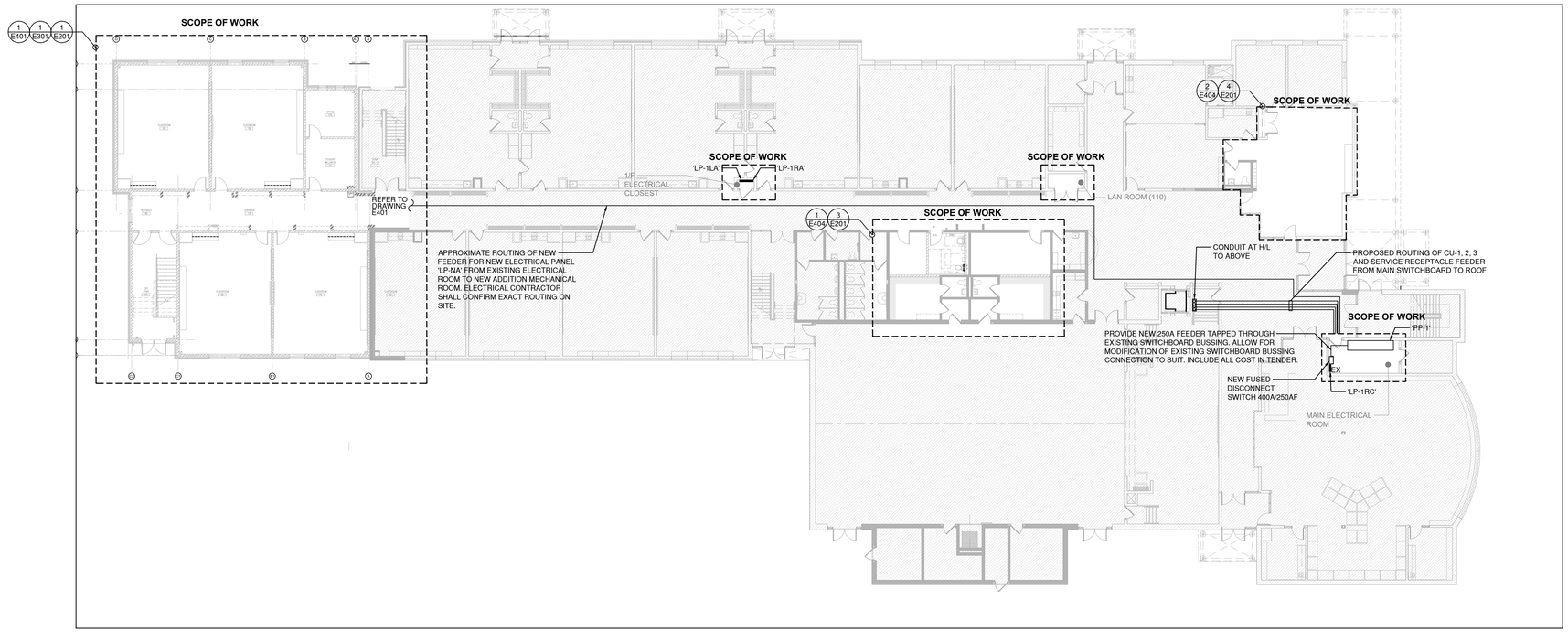
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST
CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

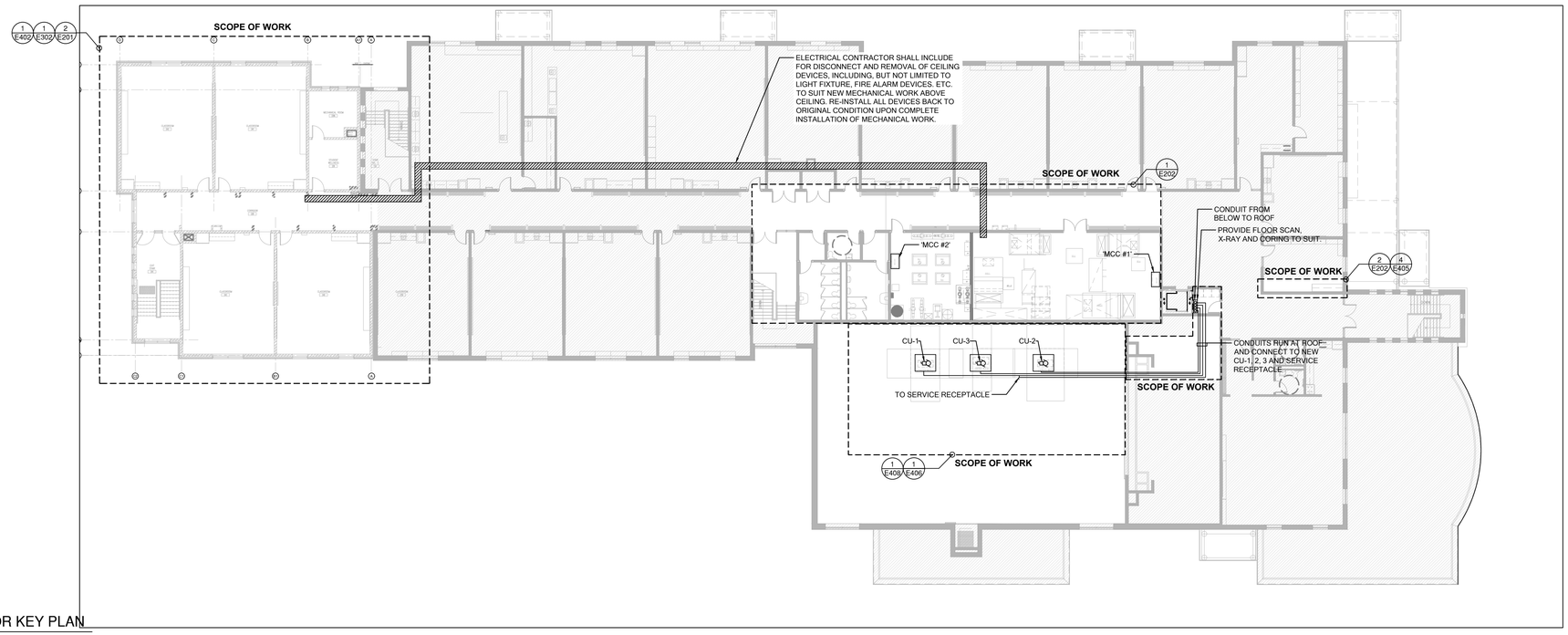
DCDSB TENDER #: T27-01

DRAWING:
FIRE ALARM ACTIVE
GRAPH

DESIGN BY: TH	SEAL:
DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E005



1 E101 GROUND FLOOR KEY PLAN
SCALE: 1:200



2 E101 SECOND FLOOR KEY PLAN
SCALE: 1:200

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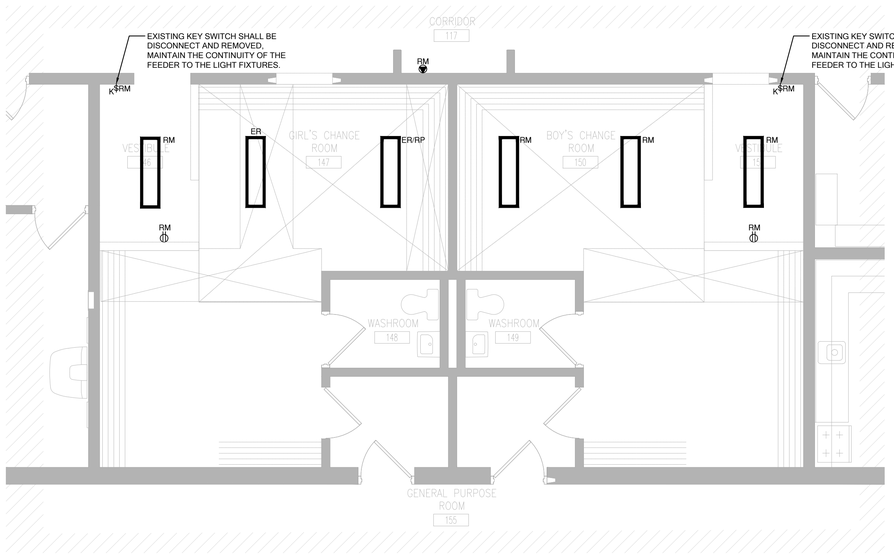
PROJECT:
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WHITBY ON, L1P1N9

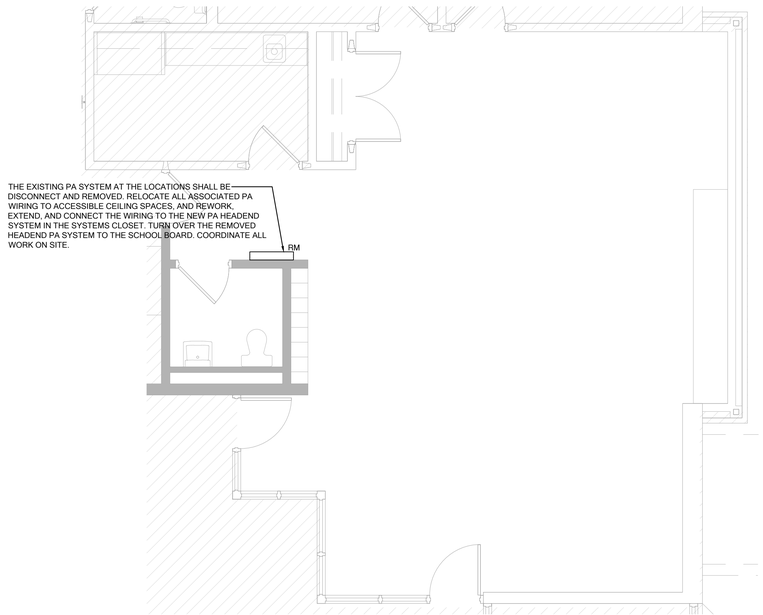
DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL KEY PLAN

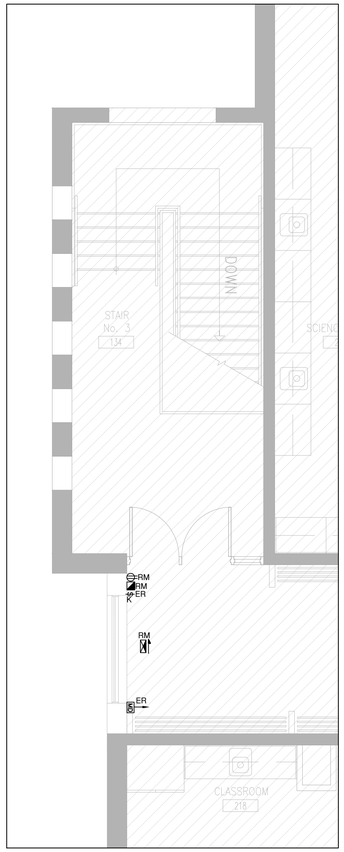
DESIGN BY: TH	SEAL:
DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E101



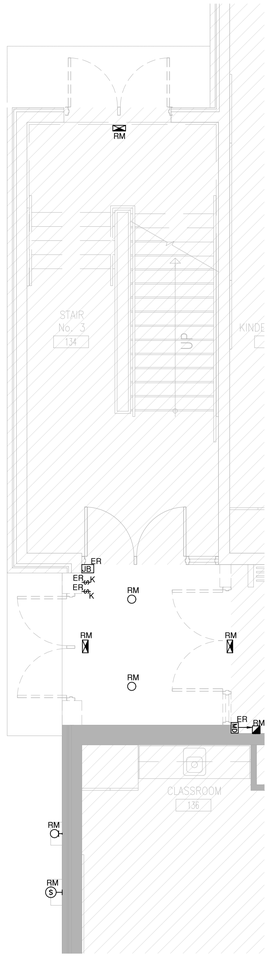
3 E201 PART FIRST FLOOR DEMOLITION PLAN
SCALE: 1:50



4 E201 PART FIRST FLOOR DEMOLITION PLAN
SCALE: 1:50



2 E201 PART SECOND FLOOR DEMOLITION PLAN
SCALE: 1:50



1 E201 PART FIRST FLOOR DEMOLITION PLAN
SCALE: 1:50

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

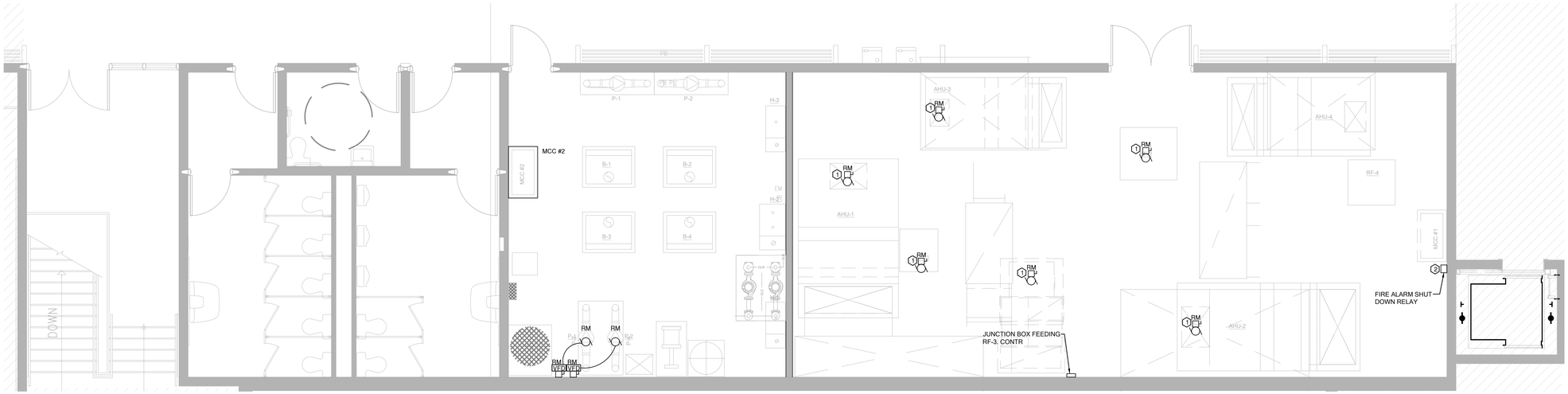
DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL
DEMOLITION PLAN (1)

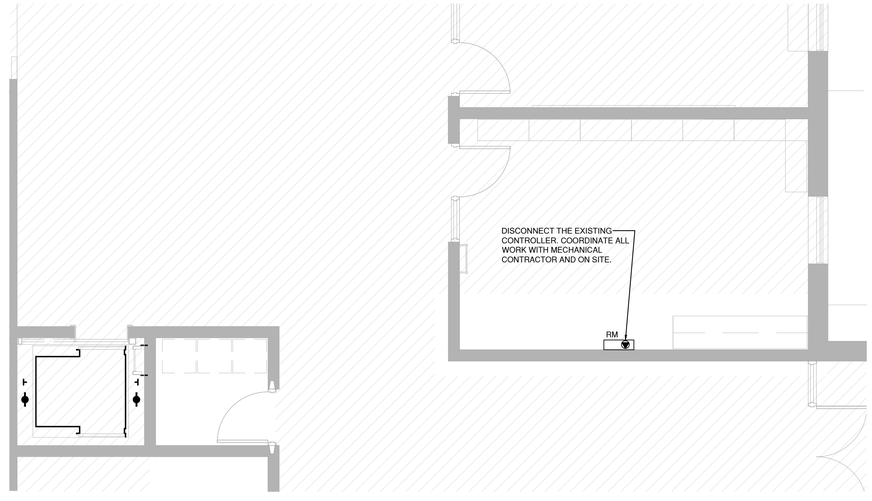
DESIGN BY: TH	SEAL:
DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E201

KEYED NOTES

1. DISCONNECT EXISTING FEEDER TO THE EXISTING MOTOR AS SHOWN. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. CONTRACTOR SHALL SITE TRACE EXISTING FEEDER ROUTING AND PROVIDE NEW CONDUIT AND WIRING THROUGH THE SIMILAR PATH TO SUIT PROPOSED NEW LAYOUT SHOWN ON DRAWING E405.
2. ELECTRICAL CONTRACTOR SHALL RETAIN ALL EXISTING FIRE ALARM RELAY SHUT DOWN FOR ALL ASSOCIATED AHU SUPPLY AND RETURN FANS WITHIN EXISTING JUNCTION BOX. PROVIDE NEW CONDUIT AND FIRE ALARM WIRING AND CONNECT TO RESPECTIVE AHU SUPPLY AND RETURN FAN VFD FOR FIRE ALARM SHUT DOWN TIE-IN. PROVIDE FIRE ALARM VERIFICATION, AND S1001 INTEGRATION TESTING TO SUIT. INCLUDE ALL COST IN TENDER BID.



1 E202 PART SECOND FLOOR DEMOLITION PLAN
SCALE: 1:50



2 E202 PART SECOND FLOOR DEMOLITION PLAN
SCALE: 1:50

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

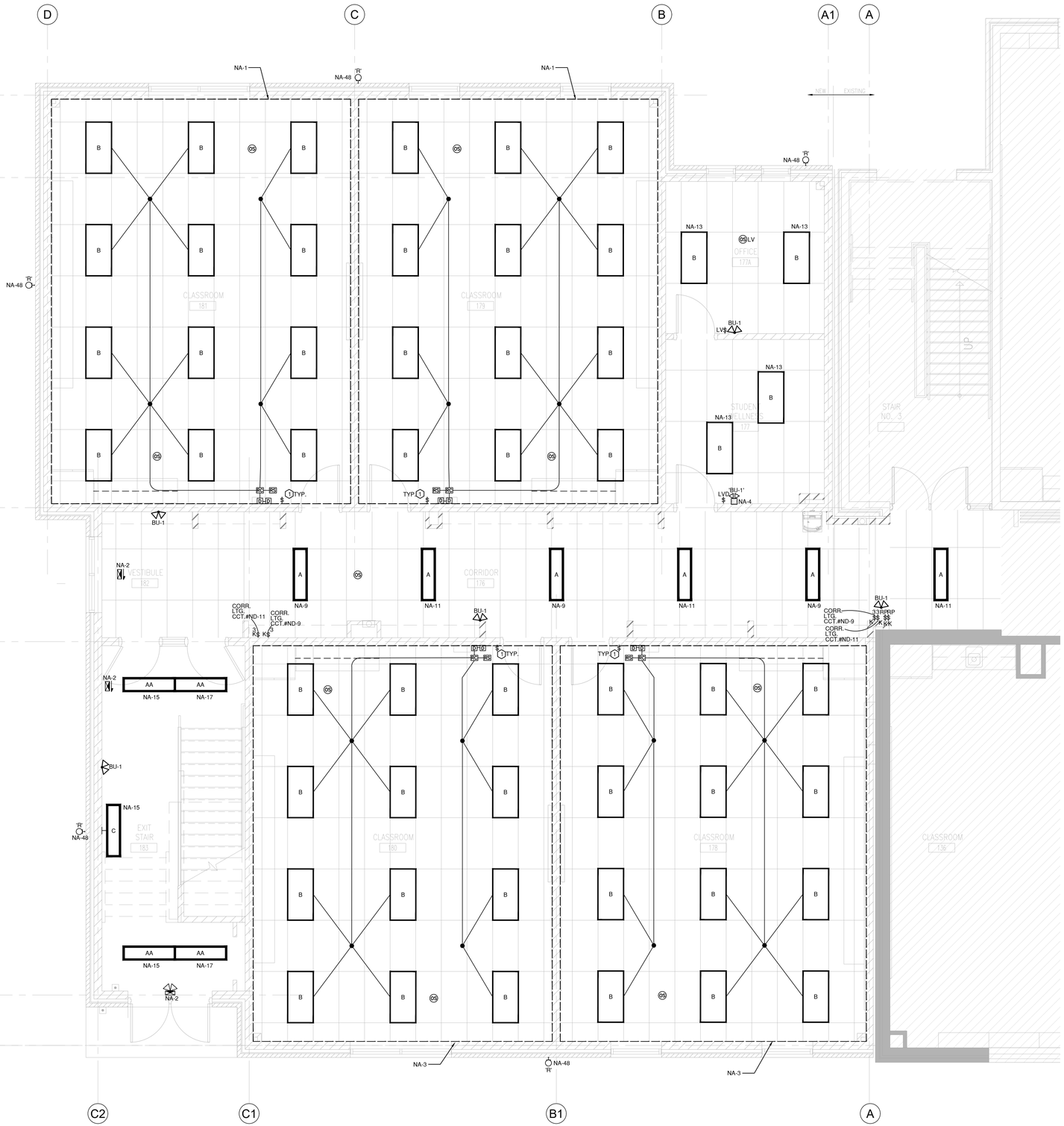
DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL
DEMOLITION PLAN (2)

DESIGN BY: TH	SEAL:
DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E202

KEYED NOTES

1. FOR EACH ROOM CONTROLLER, PROVIDE SINGLE POLE DOUBLE THROW LIGHT SWITCH (WALL MOUNTED IN ACCESSIBLE CEILING SPACE ABOVE WALLSTATIONS/CLASSROOM CONTROL PANEL) AND DOUBLE POLE SINGLE THROW LIGHT SWITCH RECESS MOUNTED ON THE WALL/CLASSROOM CONTROL PANEL (WHERE APPLICABLE), BOTH SWITCHES SHALL OVERRIDE RESPECTIVE ROOM CONTROLLER USED FOR 120V LIGHTING IN THE RESPECTIVE ROOM(S)/SPACE(S) IN CASE OF THEIR FAILURE. PROVIDE ASSOCIATED LAMICOIDE PLATE ON SWITCH LOCATED ABOVE WALL STATIONS/CLASSROOM CONTROL PANEL AND ON CEILING GRID BELOW SWITCH, AS WELL AS THE BY-PASS SWITCH MOUNTED ON CLASSROOM CONTROL PANEL OR ON WALL. ADJUST ALL COMPONENTS TO SUIT. REFER TO DETAIL #3 ON DRAWING E601 FOR WIRING SCHEMATIC DIAGRAM.



1 E301 LIGHTING ADDITIONAL PLAN- FIRST FLOOR
SCALE: 1:50

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email: info@rdzeng.ca

BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

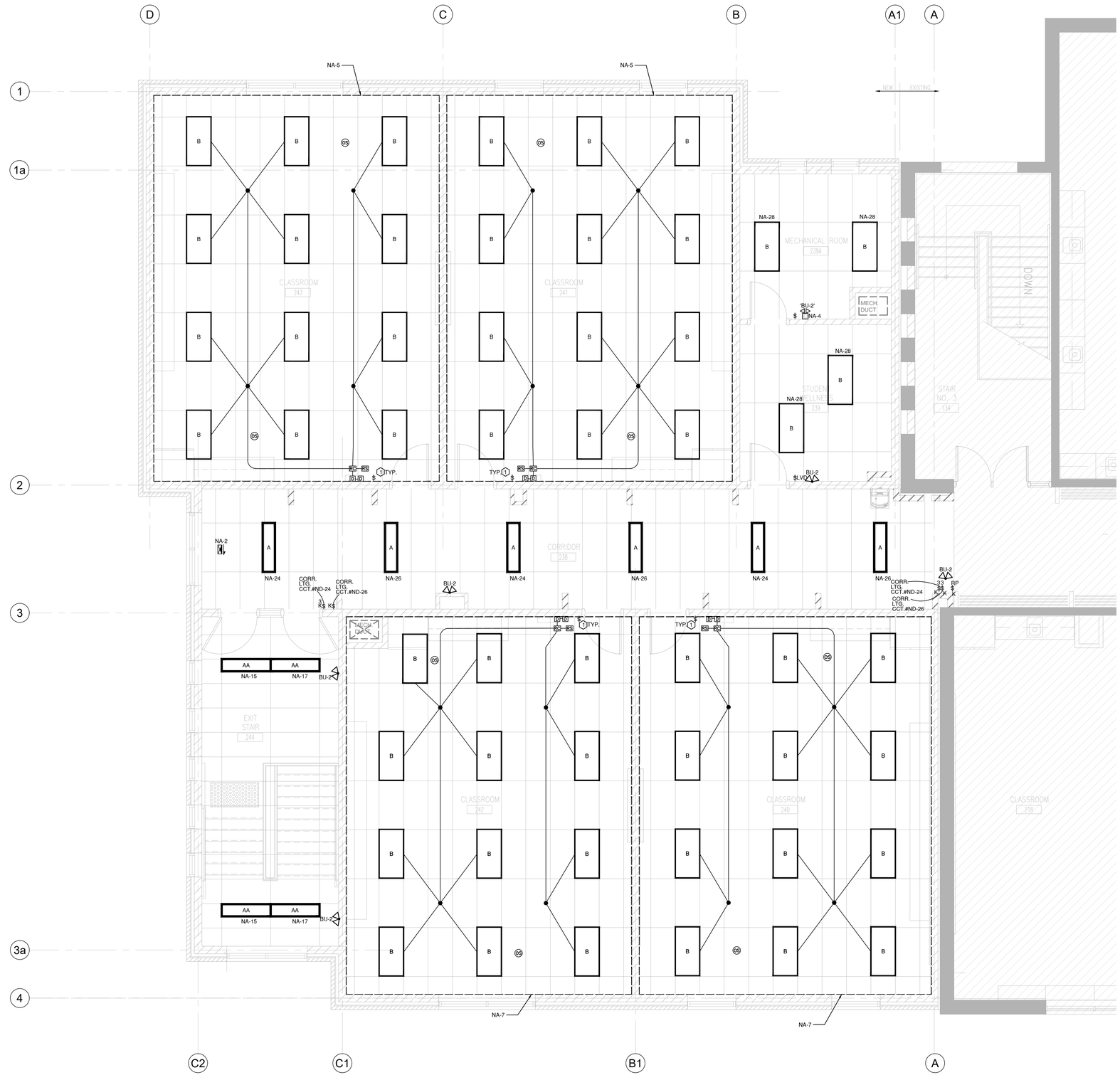
DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL LIGHTING ADDITIONAL PLAN- FIRST FLOOR

DESIGN BY: TH	SEAL:
DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E301

KEYED NOTES

1. FOR EACH ROOM CONTROLLER, PROVIDE SINGLE POLE DOUBLE THROW LIGHT SWITCH (WALL MOUNTED IN ACCESSIBLE CEILING SPACE ABOVE WALLSTATIONS/CLASSROOM CONTROL PANEL) AND DOUBLE POLE SINGLE THROW LIGHT SWITCH RECESS MOUNTED ON THE WALL/CLASSROOM CONTROL PANEL (WHERE APPLICABLE), BOTH SWITCHES SHALL OVERRIDE RESPECTIVE ROOM CONTROLLER USED FOR 120V LIGHTING IN THE RESPECTIVE ROOM(S)/SPACE(S) IN CASE OF THEIR FAILURE. PROVIDE ASSOCIATED LAMICOIDE PLATE ON SWITCH LOCATED ABOVE WALL STATIONS/CLASSROOM CONTROL PANEL AND ON CEILING GRID BELOW SWITCH, AS WELL AS THE BY-PASS SWITCH MOUNTED ON CLASSROOM CONTROL PANEL OR ON WALL. ADJUST ALL COMPONENTS TO SUIT. REFER TO DETAIL #3 ON DRAWING E601 FOR WIRING SCHEMATIC DIAGRAM.



1 E302 LIGHTING ADDITIONAL PLAN- SECOND FLOOR
SCALE: 1:50

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BARRY BRYAN ASSOCIATES

PROJECT:
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55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

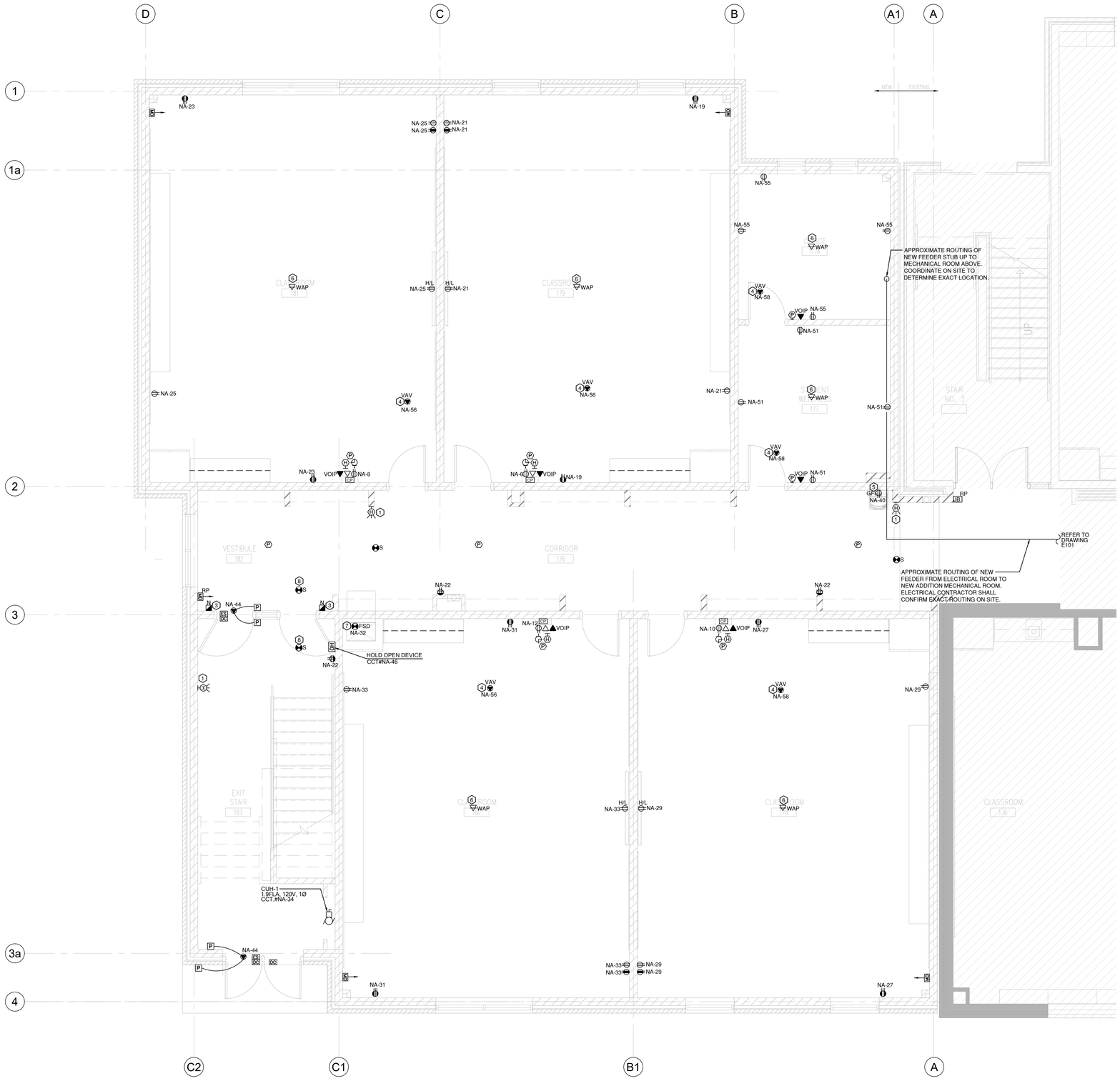
DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL LIGHTING ADDITIONAL PLAN- SECOND FLOOR

DESIGN BY: TH	SEAL:
DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E302

KEYED NOTES

1. CONNECT NEW FIRE HORN/STROBE TO NEAREST FIRE ALARM HORN/STROBE AND ASSOCIATED CIRCUIT. PROVIDE ALL NECESSARY CONDUIT/ WIRING TO SUIT. PROVIDE FIRE ALARM VERIFICATION AFTER COMPLETION OF WORK.
2. CONNECT NEW SMOKE DETECTOR TO NEAREST SMOKE DETECTOR AND ASSOCIATED CIRCUIT IN THE SAME CORRIDOR. PROVIDE ALL NECESSARY CONDUIT/ WIRING TO SUIT. PROVIDE FIRE ALARM VERIFICATION AFTER COMPLETION OF WORK.
3. CONNECT NEW FIRE ALARM PULL STATION TO NEAREST FIRE ALARM PULL STATION AND ASSOCIATED CIRCUIT. PROVIDE ALL NECESSARY CONDUIT/ WIRING TO SUIT. PROVIDE FIRE ALARM VERIFICATION AFTER COMPLETION OF WORK.
4. FOR VAV BOXES. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR AND ON SITE BEFORE ROUGHING IN.
5. FOR WATER BOTTLE FILLER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE.
6. CONDUCT HEAT MAPPING PRIOR TO INSTALLATION OF WIRELESS ACCESS POINT. COORDINATE FINAL LOCATION WITH COMMUNICATION CONTRACTOR ON SITE.
7. PROVIDE NEW DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER AND CONNECT TO THE CORRESPONDING EXISTING FIRE ALARM ZONE CIRCUIT OF THIS AREA. THE NEW DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE FULLY COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE CONDUIT/WIRING AND ALL ASSOCIATED COMPONENTS TO SUIT. PROVIDE FIRE ALARM VERIFICATION AFTER COMPLETION OF WORK. PROVIDE ACCESS HATCH TO SUIT.
8. CONNECT NEW SMOKE DETECTOR TO THE NEAREST FIRE ALARM CIRCUIT. PROVIDE ASSOCIATED CONDUIT AND WIRING TO SUIT. INTERLOCK NEW SMOKE DETECTORS WHT THE DOOR HOLDER, SUCH THAT UPON DETECTION OF SMOKE, OR INITIATION OF FIRE ALARM, THE DOOR HOLDER SHALL BE RELEASED. PROVIDE FIRE ALARM VERIFICATION AND S1001 INTEGRATION TESTING



FIRE/SMOKE DAMPERS:

LEGEND:

FSD — DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER

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

NOTES:

1. EXACT LOCATION OF FIRE/SMOKE DAMPERS SHALL BE DETERMINED AS PER MECHANICAL DRAWINGS AND ON SITE. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR
2. SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE INSTALLED MAXIMUM 1.5M FROM THE DOWNSTREAM (AIR FLOW DIRECTION) OF THE FIRE SMOKE DAMPER. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR AND ON SITE.
3. SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE COMPLETE WITH TWO (2) DPDT FORM-C RELAYS WITH 120V INPUT CONTACTS FOR FIRE/SMOKE DAMPER ACTUATOR OPERATION AND INTEGRATION SEQUENCE.

1 E401 POWER AND F.A. ADDITIONAL PLAN- FIRST FLOOR
SCALE: 1:50

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

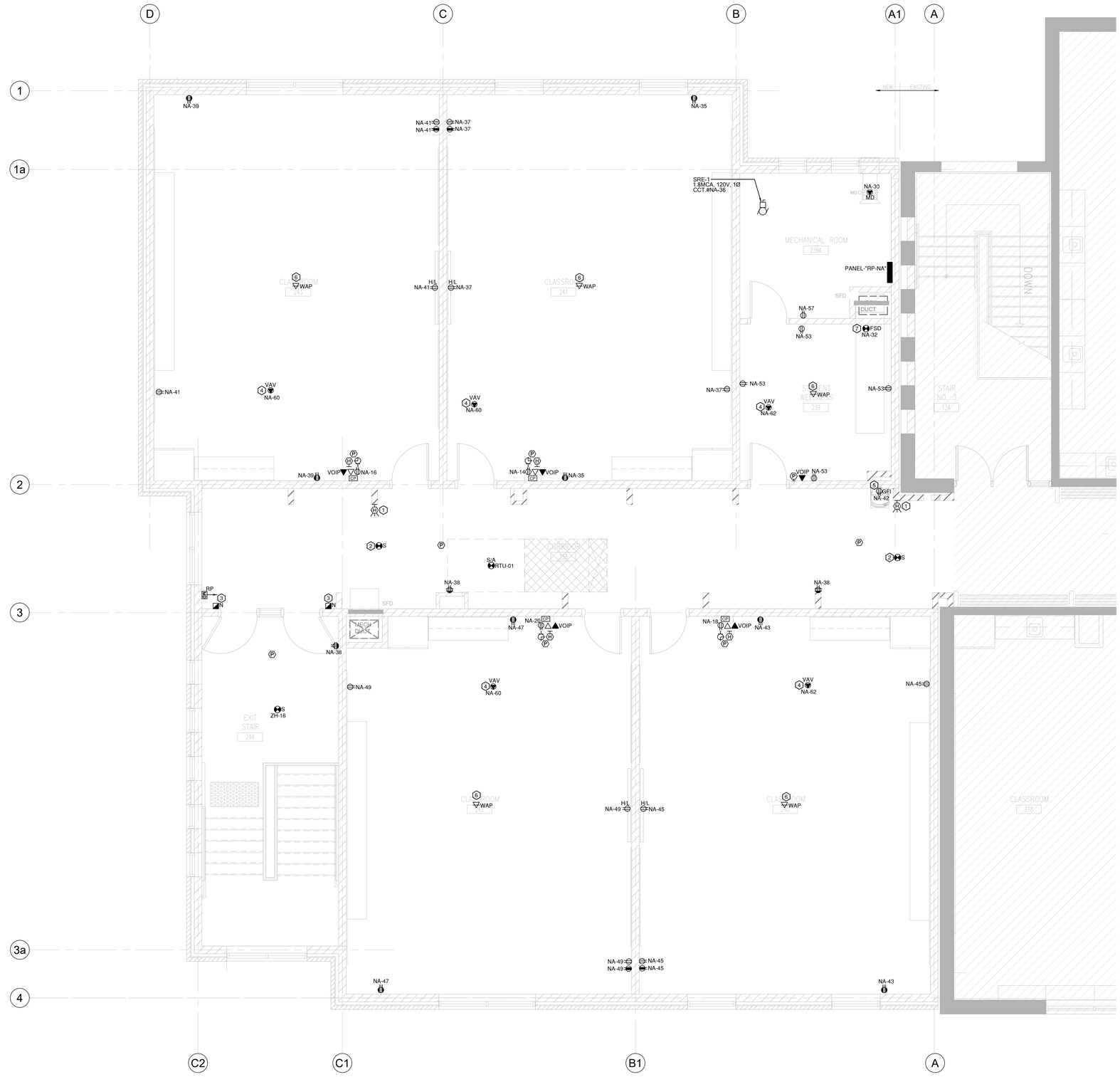
DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL POWER AND F.A. ADDITIONAL PLAN- FIRST FLOOR

DESIGN BY: TH	SEAL:
DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E401

KEYED NOTES

1. CONNECT NEW FIRE HORN/STROBE TO NEAREST FIRE ALARM HORN/STROBE AND ASSOCIATED CIRCUIT. PROVIDE ALL NECESSARY CONDUIT/ WIRING TO SUIT. PROVIDE FIRE ALARM VERIFICATION AFTER COMPLETION OF WORK.
2. CONNECT NEW SMOKE DETECTOR TO NEAREST SMOKE DETECTOR AND ASSOCIATED CIRCUIT IN THE SAME CORRIDOR. PROVIDE ALL NECESSARY CONDUIT/ WIRING TO SUIT. PROVIDE FIRE ALARM VERIFICATION AFTER COMPLETION OF WORK.
3. CONNECT NEW/ RELOCATED FIRE ALARM PULL STATION TO NEAREST FIRE ALARM PULL STATION AND ASSOCIATED CIRCUIT. PROVIDE ALL NECESSARY CONDUIT/ WIRING TO SUIT. PROVIDE FIRE ALARM VERIFICATION AFTER COMPLETION OF WORK.
4. FOR VAV BOXES. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR AND ON SITE BEFORE ROUGHING IN.
5. FOR WATER BOTTLE FILLER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE.
6. CONDUCT HEAT MAPPING PRIOR TO INSTALLATION OF WIRELESS ACCESS POINT. COORDINATE FINAL LOCATION WITH COMMUNICATION CONTRACTOR ON SITE.
7. PROVIDE NEW DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER AND CONNECT TO THE CORRESPONDING EXISTING FIRE ALARM ZONE CIRCUIT OF THIS AREA. THE NEW DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE FULLY COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE CONDUIT/WIRING AND ALL ASSOCIATED COMPONENTS TO SUIT. PROVIDE FIRE ALARM VERIFICATION AFTER COMPLETION OF WORK. PROVIDE ACCESS HATCH TO SUIT.



FIRE/SMOKE DAMPERS:

LEGEND:

FSD
PANEL NAME-XX

DUCT SMOKE DETECTOR FOR FIRE/SMOKE DAMPER

INDICATES 120V CIRCUIT FOR FIRE/SMOKE DAMPER ACTUATOR

NOTES:

1. EXACT LOCATION OF FIRE/SMOKE DAMPERS SHALL BE DETERMINED AS PER MECHANICAL DRAWINGS AND ON SITE. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR
2. SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE INSTALLED MAXIMUM 1.5M FROM THE DOWNSTREAM (AIR FLOW DIRECTION) OF THE FIRE SMOKE DAMPER. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR AND ON SITE.
3. SMOKE DETECTOR FOR FIRE/SMOKE DAMPER SHALL BE COMPLETE WITH TWO (2) DPDT FORM-C RELAYS WITH 120V INPUT CONTACTS FOR FIRE/SMOKE DAMPER ACTUATOR OPERATION AND INTEGRATION SEQUENCE.

1 E402 POWER AND F.A. ADDITIONAL PLAN- SECOND FLOOR
SCALE: 1:50

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BBA
BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

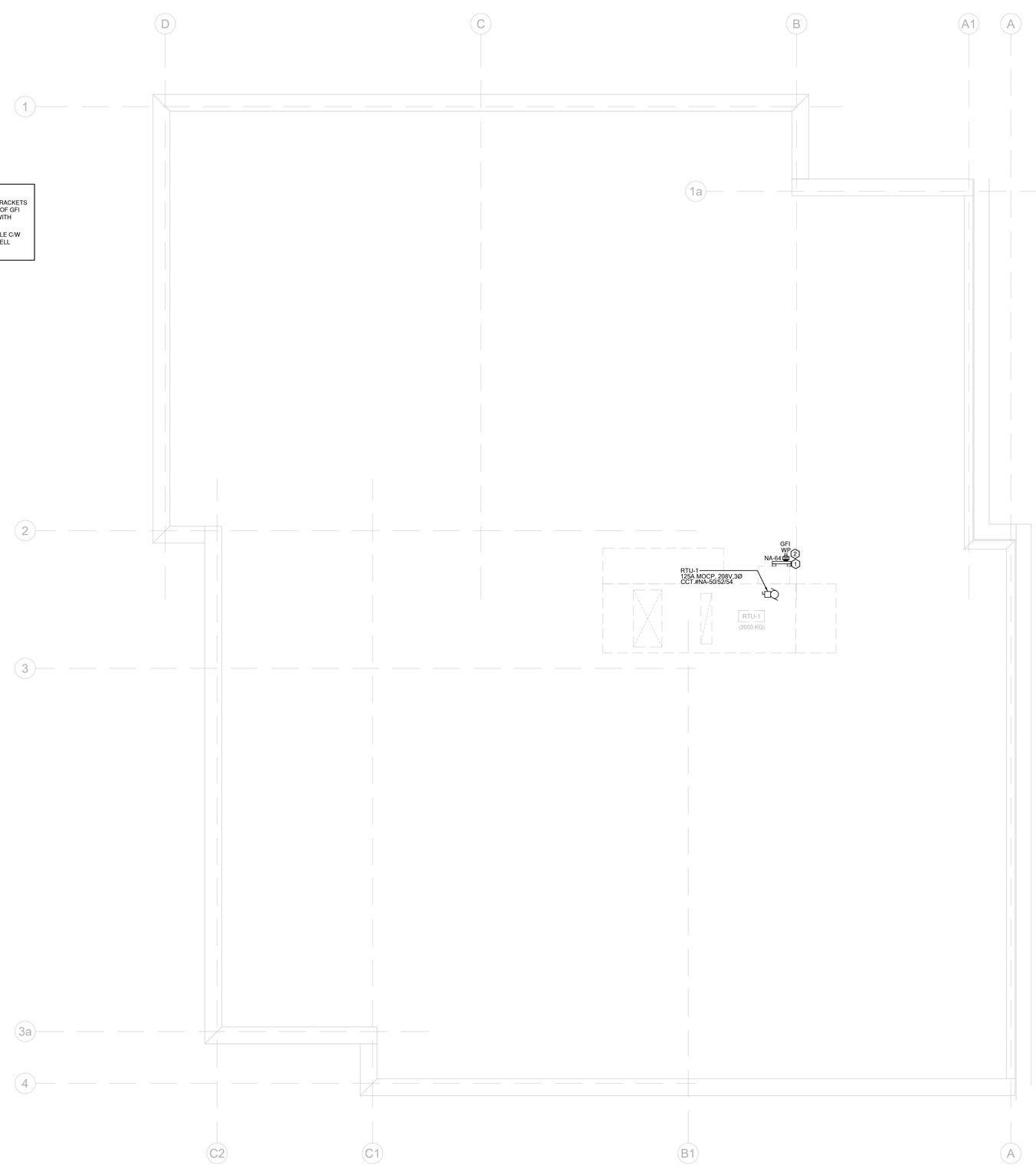
DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL POWER AND F.A. ADDITIONAL PLAN- SECOND FLOOR

DESIGN BY:	TH
DRAWN BY:	TH
CHECKED BY:	FH
DATE:	-
SCALE:	AS SHOWN
SEAL:	
PROJECT NO:	25041
DRAWING NO:	E402

KEYED NOTES

1. PROVIDE FREE STANDING (BOLTED TO THE FLOOR) UNISTRUTS/ MOUNTING BRACKETS FOR INSTALLATION OF WEATHERPROOF DISCONNECT SWITCH/WEATHERPROOF GFI SERVICE DUPLEX RECEPTACLE. EXACT LOCATION SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR AND ON SITE.
2. 15/20A,120V COMBINATION WEATHERPROOF GFI SERVICE DUPLEX RECEPTACLE C/W WEATHERPROOF IN-USE COVER AND "EXTRA DUTY" LABEL, SIMILAR TO HUBBELL CAT#MX3200.



1 E403 POWER PLAN- ROOF FLOOR
SCALE: 1:50

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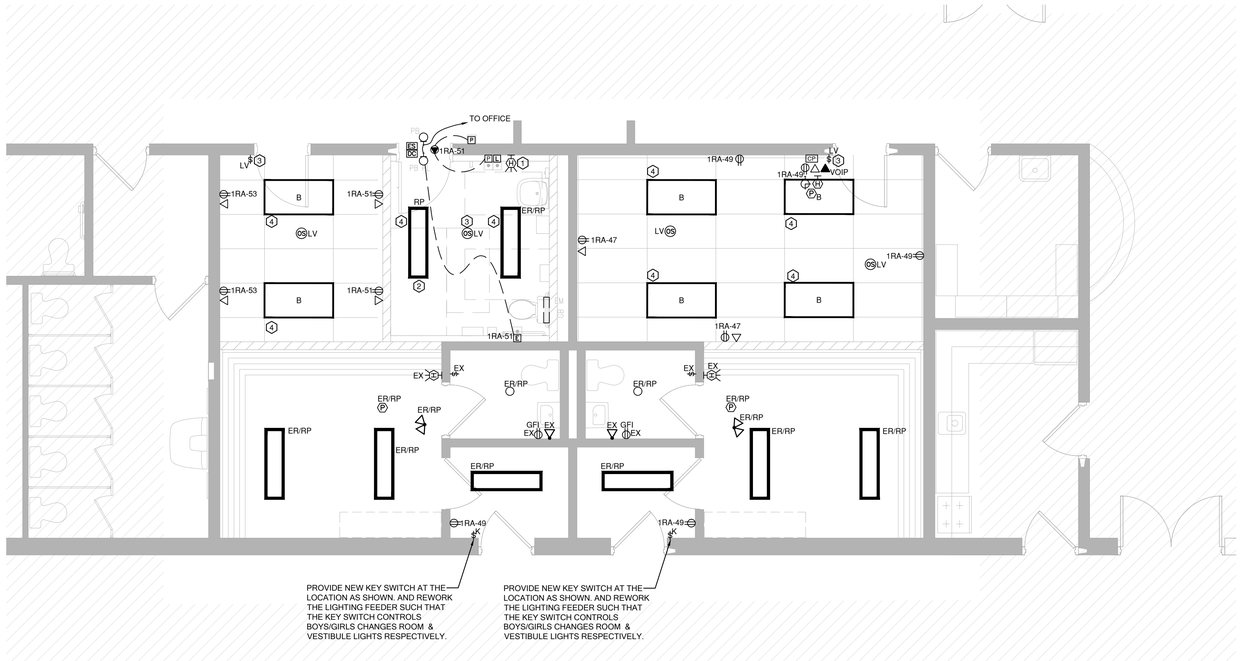
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST
CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL POWER
ADDITIONAL PLAN-
ROOF FLOOR

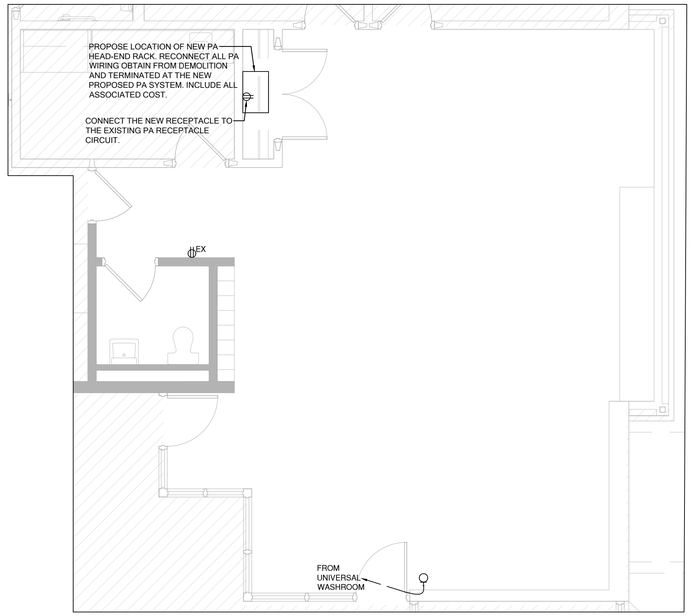
DESIGN BY: TH	SEAL:
DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E403



KEYED NOTES

1. CONNECT NEW FIRE HORN/STROBE TO NEAREST FIRE ALARM HORN/STROBE AND ASSOCIATED CIRCUIT. PROVIDE ALL NECESSARY CONDUIT/ WIRING TO SUIT. PROVIDE FIRE ALARM VERIFICATION AFTER COMPLETION OF WORK.
2. RELOCATED LIGHT FIXTURES SHALL BE CONNECTED TO THE EXISTING LIGHTING CIRCUIT IN THE ROOM. PROVIDE ALL NECESSARY CONDUIT/ WIRING TO SUIT.
3. LIGHT FIXTURES LOCATED IN ROOMS/AREA SHALL BE CONNECTED TO THE LOCAL LIGHT SWITCHES OF RESPECTIVE ROOM/AREA AS SHOWN.
4. CONNECT THE LIGHT FIXTURE TO EXISTING LIGHTING CIRCUIT OBTAIN FROM DEMOLITION , REWORK EXISTING CONDUIT AND WIRING AND EXTEND TO SUIT

1 E404 PART FIRST FLOOR MODIFICATION PLAN
SCALE: 1:50



2 E404 PART FIRST FLOOR MODIFICATION PLAN
SCALE: 1:50

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST
CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

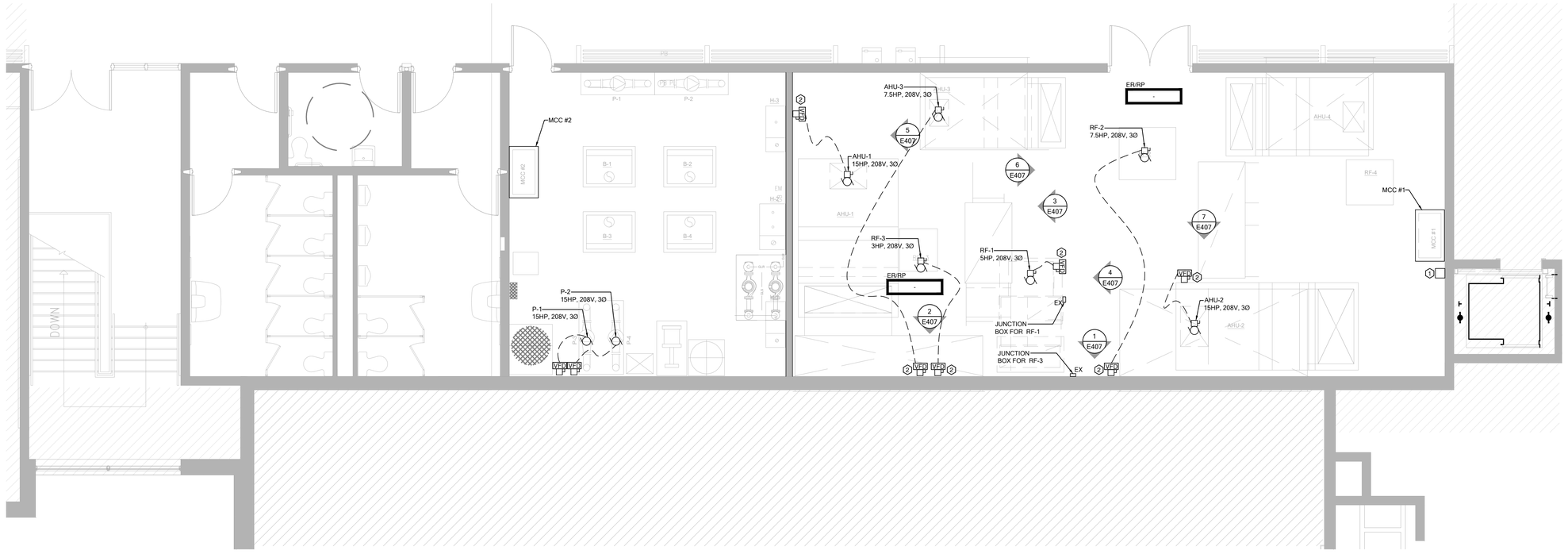
DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL MODIFICATION
PLAN- FIRST FLOOR
WASHROOM

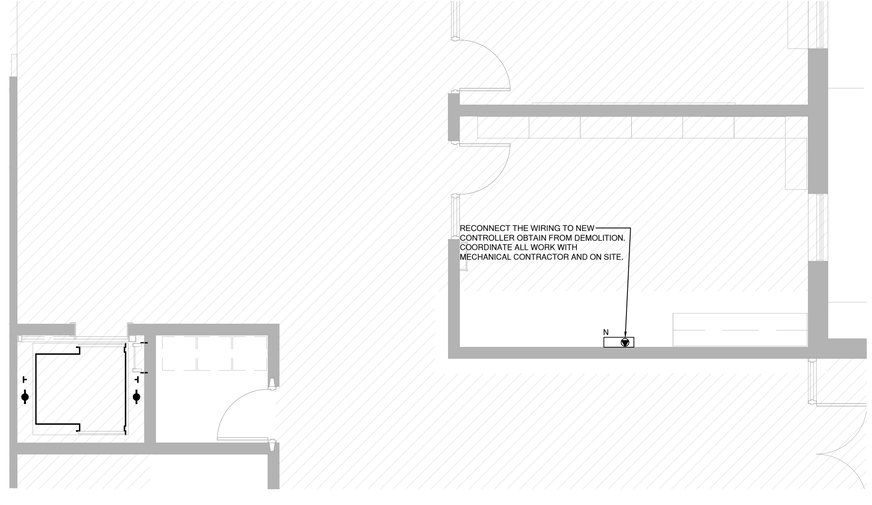
DESIGN BY: TH	SEAL:
DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E404

KEYED NOTES

1. ELECTRICAL CONTRACTOR SHALL EXTEND THE EXISTING FIRE ALARM FAN SHUT DOWN FEEDER TO RESPECTIVE AHU SUPPLY FAN AND RETURN FAN VFD ACCORDINGLY. PROVIDE ALL ASSOCIATED CONDUIT AND FIRE ALARM WIRING TO SUIT. CONFIRM EXACT ROUTING ON SITE. INCLUDE ALL COST.
2. PROVIDE FLOOR SCAN, X-RAY AND CORNERING TO SUIT THE CONDUIT AND WRING STUB UP FROM FLOOR BELOW.



1 E405 PART SECOND FLOOR MODIFICATION PLAN
SCALE: 1:50



2 E405 PART SECOND FLOOR MODIFICATION PLAN
SCALE: 1:50

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BARRY BRYAN ASSOCIATES

PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL MODIFICATION PLAN- SECOND FLOOR

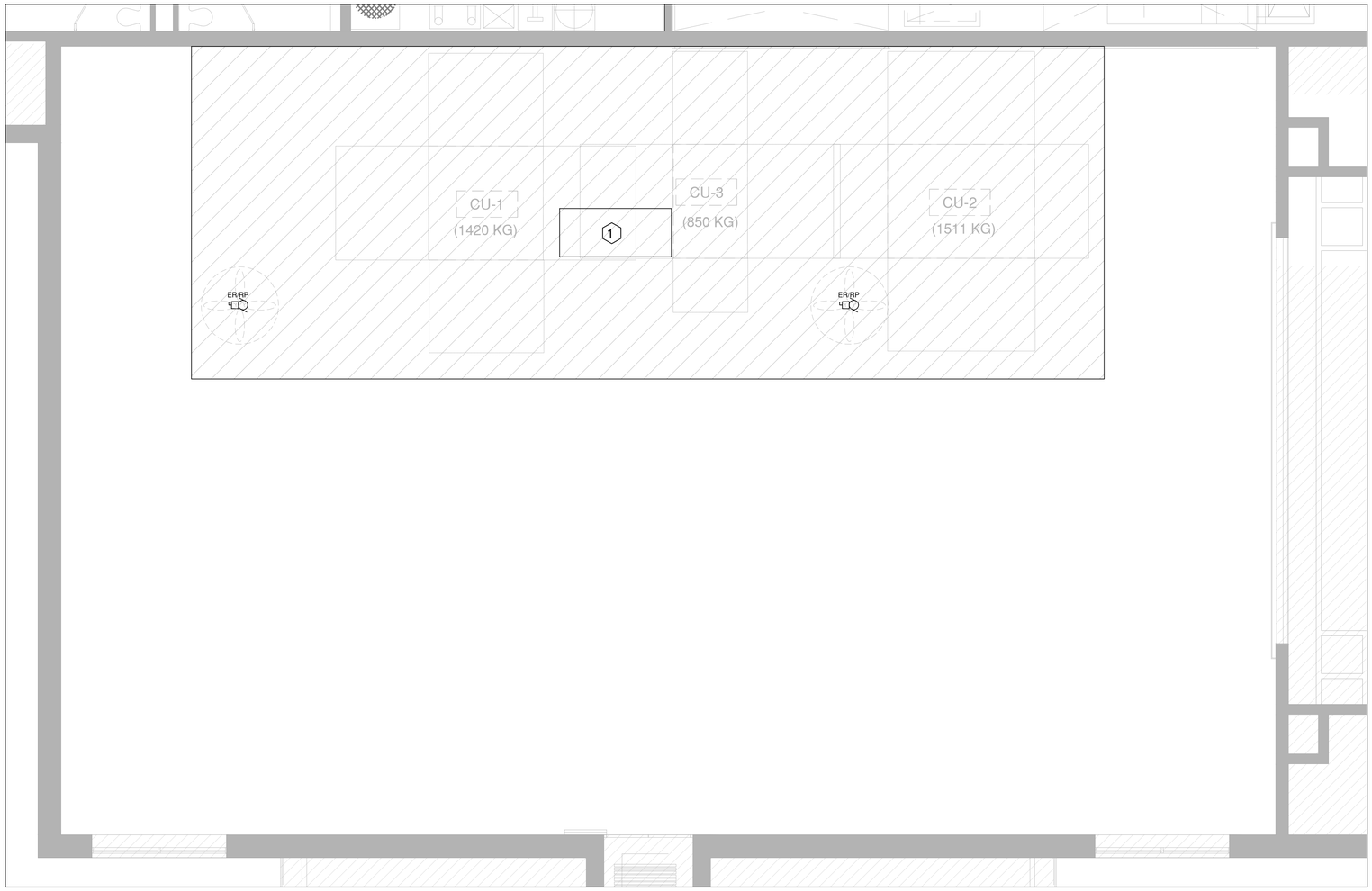
DESIGN BY:	TH
DRAWN BY:	TH
CHECKED BY:	FH
DATE:	-
SCALE:	AS SHOWN
SEAL:	
PROJECT NO:	25041
DRAWING NO:	E405

KEYED NOTES

1. IN THE EXISTING GYMNASIUM, TEMPORARILY DISCONNECT AND REMOVE EXISTING CEILING-MOUNTED ELECTRICAL EQUIPMENT/DEVICES AS REQUIRED TO ACCOMMODATE NEW MECHANICAL DUCTWORK, EQUIPMENT, AND STRUCTURAL REINFORCEMENT WORK. RE-INSTALL ALL REMOVED EQUIPMENT/DEVICES AT THEIR ORIGINAL LOCATIONS AND RECONNECT TO THE SAME EXISTING ELECTRICAL CIRCUITS OR ZONE CIRCUITS UPON COMPLETION OF THE MECHANICAL AND STRUCTURAL WORK. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST AS REQUIRED. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND EXACT SCOPE OF WORK ON SITE PRIOR TO COMMENCING WORK.

   ELECTRICAL CONTRACTOR SHALL ALSO INCLUDE RE-ROUTING OF THE FOLLOWING EXISTING CONDUITS, WIRING, CABLES, AND ASSOCIATED JUNCTION/PULL BOXES AS REQUIRED TO ACCOMMODATE STRUCTURAL REINFORCEMENTS, NEW MECHANICAL DUCTWORK, EQUIPMENT, AND DECK PENETRATIONS. RE-ROUTE AS REQUIRED TO ELIMINATE INTERFERENCE AND MAINTAIN ACCESSIBILITY. ALLOW FOR 60 FEET OF CONDUIT AND WIRING PER CONDUIT/WIRING SYSTEM.

   -TWENTY (20) 1" CONDUITS WITH WIRING FOR 15A, 120V CIRCUITS
   -SIX (6) 2" CONDUITS WITH WIRING FOR 120/208V CIRCUITS
   -FIFTEEN (15) DATA CABLES
   -TEN (10) P.A./TELEPHONE SYSTEM CABLES
   -FOUR (4) SECURITY SYSTEM CABLES
   -TWO (2) SURVEILLANCE VIDEO CABLES
   -FOUR (4) FIRE ALARM DETECTORS (PROVIDE F.A. VERIFICATION AFTER COMPLETION OF WORK)
   -FOUR (4) WIRELESS ACCESS POINT DEVICES
   -TWO (2) OCCUPANCY SENSORS
   -LIGHT FIXTURES C/W ASSOCIATED MOUNTING COMPONENTS



1 / E406 GYM AREA MODIFICATION PLAN
SCALE: 1:50

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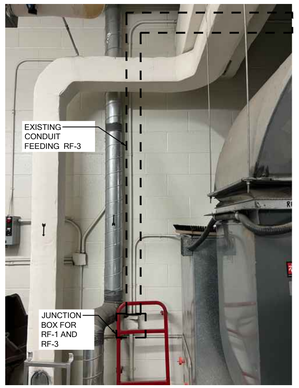
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

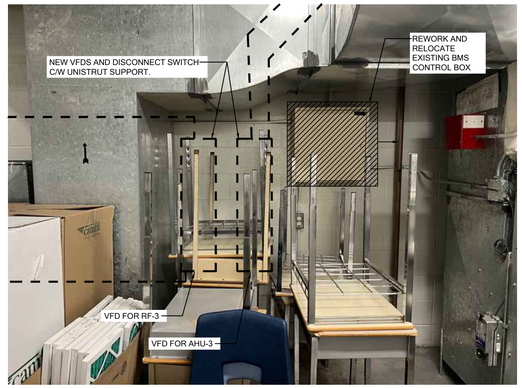
DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL MODIFICATION PLAN- GYM AREA

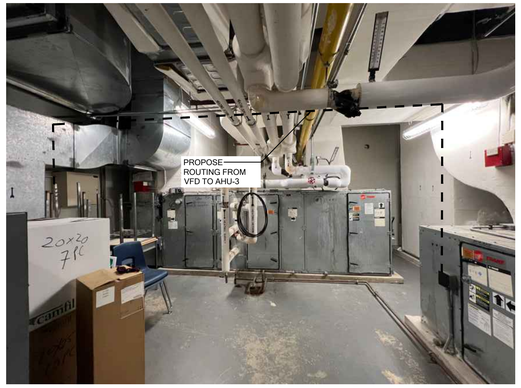
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DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E406



1 E407 DETAIL OF RELOCATED CONDUIT
SCALE: N.T.S.



2 E407 DETAIL OF RELOCATED CONDUIT
SCALE: N.T.S.



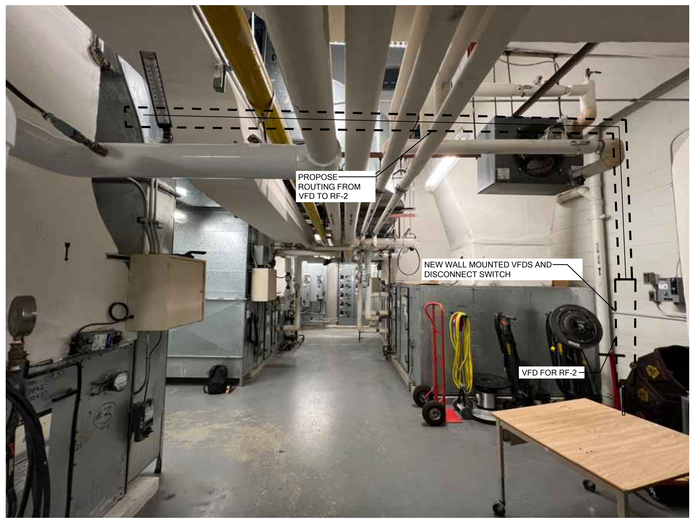
3 E407 DETAIL OF RELOCATED CONDUIT
SCALE: N.T.S.



4 E407 DETAIL OF RELOCATED CONDUIT
SCALE: N.T.S.



5 E407 DETAIL OF RELOCATED CONDUIT
SCALE: N.T.S.



6 E407 DETAIL OF RELOCATED CONDUIT
SCALE: N.T.S.



7 E407 DETAIL OF RELOCATED CONDUIT
SCALE: N.T.S.

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PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

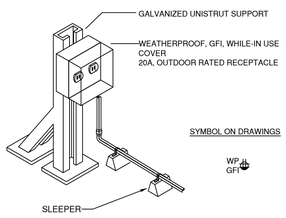
55 TWIN STREAMS ROAD,
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DRAWING:
ELECTRICAL MODIFICATION PLAN- SECOND FLOOR

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CHECKED BY: FH
DATE: -
SCALE: AS SHOWN
SEAL:

PROJECT NO: 25041
DRAWING NO: E407



GENERAL NOTES:

1. RECEPTACLE SHALL BE MOUNTED ON THE INDEPENDENT UNISTRUCT AS SHOWN.

2 / E408 ROOF MOUNTED SERVICE RECEPTACLE & ROOF CONDUIT SUPPORT INSTALLATION DETAIL

SCALE: N.T.S.

KEYED NOTES

1. PROVIDE FREE STANDING (BOLTED TO THE FLOOR) UNISTRUTS/ MOUNTING BRACKETS FOR INSTALLATION OF WEATHERPROOF DISCONNECT SWITCH/WEATHERPROOF GFI SERVICE DUPLEX RECEPTACLE. EXACT LOCATION SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR AND ON SITE.
2. 15/20A,120V COMBINATION WEATHERPROOF GFI SERVICE DUPLEX RECEPTACLE C/W WEATHERPROOF IN-USE COVER AND "EXTRA DUTY" LABEL, SIMILAR TO HUBBELL CAT#MX3200.
3. PROVIDE A SEPARATE PRICE FOR THE ELECTRICAL POWER CONNECTIONS TO THREE (3) NEW CONDENSING UNITS ON THE ROOF, INCLUDING ALL ASSOCIATED CONDUIT, WIRING, FUSED DISCONNECT SWITCHES, AND MAINTENANCE RECEPTACLES INSTALLATION AND POWER CONNECTIONS FOR ALL EQUIPMENT. REFER TO DETAIL #2 ON DRAWING E002 FOR FURTHER DETAILS.

1 / E408 EXISTING ROOF FLOOR MODIFICATION PLAN

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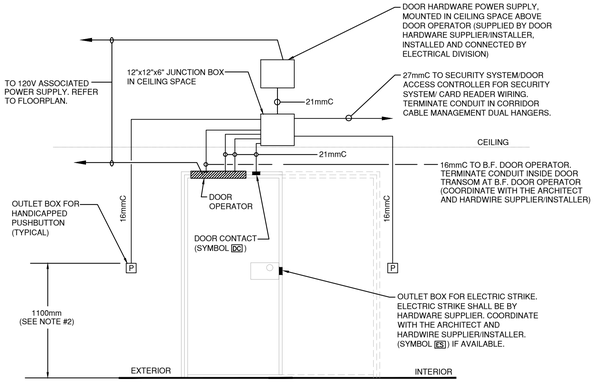
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL MODIFICATION PLAN- SECOND FLOOR

DESIGN BY: TH	SEAL:
DRAWN BY: TH	
CHECKED BY: FH	
DATE: -	
SCALE: AS SHOWN	
PROJECT NO: 25041	DRAWING NO: E408

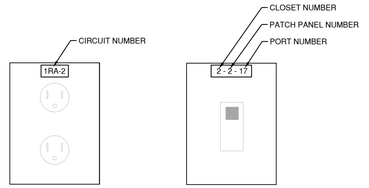


NOTES

1. ALL CONDUITS ARE 16mm (1/2") UNLESS OTHERWISE NOTED. ALL EMPTY CONDUIT(S) SHALL BE COMPLETE WITH PULL STRING(S).
2. DOOR OPERATOR AND ASSOCIATED DEVICES WILL BE SUPPLIED AND INSTALLED BY ARCHITECTURAL DIVISION.
3. THE SIZE OF ALL OUTLET BOXES SHALL BE COORDINATED WITH THE DOOR HARDWARE SUPPLIER/INSTALLER ON SITE BEFORE ROUGHING IN.
4. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF OUTLETS WITH ARCHITECTURAL DRAWINGS.
5. ALL LOW VOLTAGE WIRING SHALL BE MINIMUM 8#18AWG, SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION. COORDINATE ALL WORK WITH DOOR HARDWARE INSTALLER ON SITE.
6. REFER TO FLOOR PLANS FOR OUTLET BOXES REQUIRED.

3 / E501 — BARRIER FREE DOOR OPERATOR SCHEMATIC DIAGRAM (TYPICAL INSTALLATION OF CONDUITS AND DEVICES)

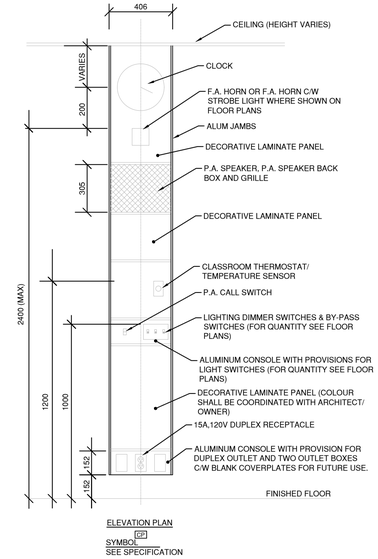
SCALE: N.T.S.



PROVIDE ROOM IDENTIFICATION AND LABELLING. COORDINATE EXACT ROOM IDENTIFICATION AND LABELLING WITH SMCDSB INFORMATION TECHNOLOGY REPRESENTATIVE.

2 / E501 — TYPICAL LABELING OF RECEPTACLES & DATA OUTLETS

SCALE: N.T.S.



ELEVATION PLAN

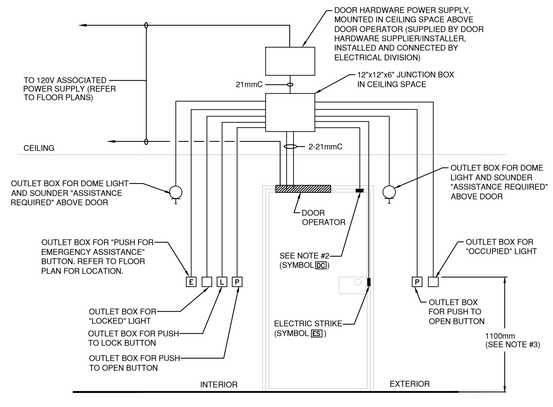
SYMBOL GP — SEE SPECIFICATION

NOTES:

1. CLASSROOM CONTROL PANEL SHALL BE SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION.
2. P.A. SPEAKERS, P.A. SPEAKER BACK BOXES, P.A. SPEAKER GRILL, F.A. CONE SPEAKER, CLOCK, RECEPTACLE, OUTLET BOX FOR P.A. CALL SWITCH, P.A. CALL SWITCH, OUTLET BOX FOR FUTURE USE, LIGHT SWITCHES, ASSOCIATED CONDUIT/WIRING, COVERPLATES, ETC. SHALL BE SUPPLIED AND INSTALLED BY DIVISION 16. (SEE SPECIFICATION)
3. IN AREAS WHERE CEILING IS ABOVE 2600mm, ELECTRICAL CONTRACTOR SHALL DO THE FOLLOWING:
   - FIRE ALARM AUDIBLE DEVICES SHALL BE INSTALLED SO THAT THE TOP OF THE DEVICE WILL NOT BE LESS THAN 2300mm AFF. AND NOT MORE THAN 2400mm.
   - FIRE ALARM VISUAL DEVICES SHALL BE INSTALLED SUCH THAT THE ENTIRE LENS ARE NOT LESS THAN 2200mm AND NOT MORE THAN 2400mm AFF.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ITEMS WITH ARCHITECT AND GET APPROVAL.

1 / E501 — CLASSROOM CONTROL PANEL

SCALE: N.T.S.

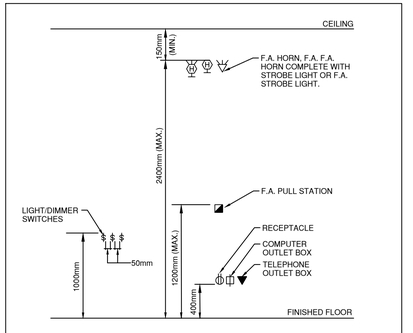


NOTES:

1. ALL CONDUITS ARE 16mm (1/2") UNLESS OTHERWISE NOTED. ALL EMPTY CONDUIT(S) SHALL BE COMPLETE WITH PULL STRING(S).
2. LOCAL DOOR CONTACT FOR DOOR OPERATOR INTERLOCK OPERATION (THIS DOOR CONTACT IS NOT REQUIRED TO BE CONNECTED TO THE SECURITY SYSTEM)
3. COORDINATE EXACT MOUNTING HEIGHT OF OUTLETS WITH ARCHITECTURAL DRAWINGS
4. ALL LOW VOLTAGE WIRING SHALL BE MINIMUM 8#18AWG, SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION. COORDINATE ALL WORK WITH DOOR HARDWARE INSTALLER ON SITE.

6 / E501 — UNIVERSAL WASHROOM DOOR OPERATOR AND EMERGENCY ASSISTANCE SYSTEM SCHEMATIC

SCALE: N.T.S.

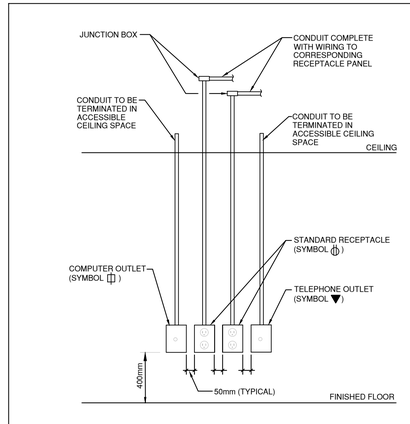


NOTES :

1. IN AREAS WHERE CEILING IS ABOVE 2600mm, ELECTRICAL CONTRACTOR SHALL DO THE FOLLOWING:
   - FIRE ALARM AUDIBLE DEVICES SHALL BE INSTALLED SO THAT THE TOP OF THE DEVICE WILL NOT BE LESS THAN 2300mm AFF. AND NOT MORE THAN 2400mm.
   - FIRE ALARM VISUAL DEVICES SHALL BE INSTALLED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 2000mm AND NOT MORE THAN 2400mm AFF.
2. IF THERE ARE MORE THAN ONE WIRING DEVICE AT THE SAME LOCATION, THEY SHALL BE MOUNTED VERTICALLY AS SHOWN.

5 / E501 — TYPICAL INSTALLATION OF ELECTRICAL DEVICES

SCALE: N.T.S.



4 / E501 — TYPICAL INSTALLATION OF RECEPTACLES AND OUTLETS

SCALE: N.T.S.

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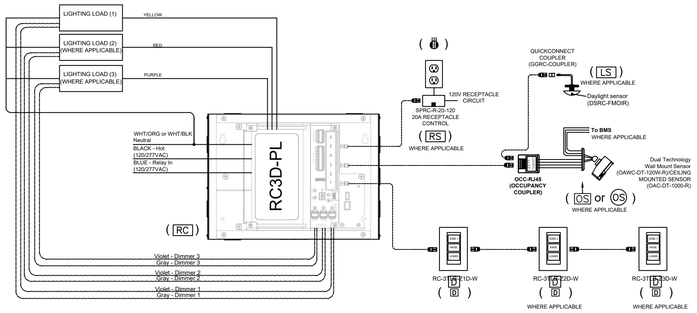
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL DETAIL (1)

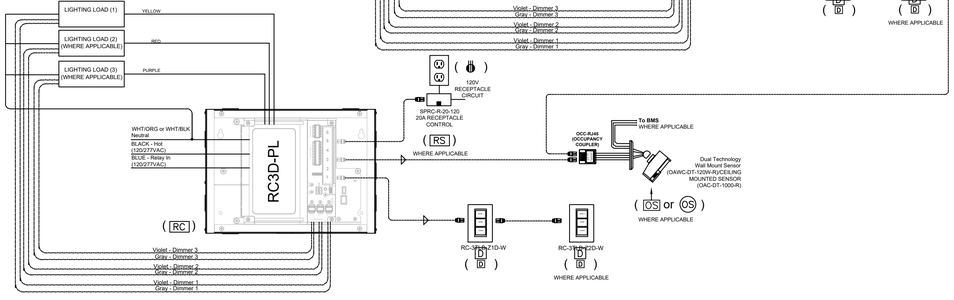
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SEAL:	
PROJECT NO:	25041
DRAWING NO:	E501



1A / E601

TYPICAL SCHEMATIC WIRING DIAGRAM FOR ROOM(S)/AREA(S) WITH ONE(1) ROOM CONTROLLER & ONE (1) CIRCUIT

SCALE: N.T.S.



1B / E601

TYPICAL SCHEMATIC WIRING DIAGRAM FOR ROOM(S)/AREA(S) WITH TWO(2) ROOM CONTROLLER(S) & TWO(2) CIRCUIT(S)

SCALE: N.T.S.

1 / E601

TYPICAL DIGITAL DIMMING CONTROL SCHEMATIC WIRING DIAGRAM(S) WITH ROOM CONTROLLER(S)

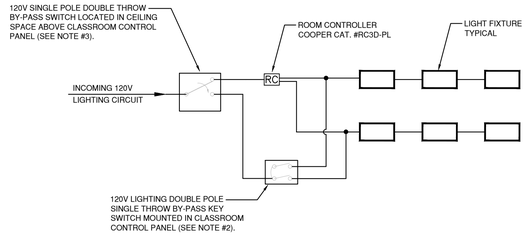
SCALE: N.T.S.

LEGEND:

———	120V CIRCUIT
- - - - - -	RJ45 QUICK CONNECT CABLE
~~	0-10V LOW VOLTAGE DIMMING CABLE
D	ROOM CONTROLLER WALLSTATION (LIGHT SWITCH/DIMMER - MOUNTED ON CLASSROOM CONTROL PANEL/WALL) COOPER, CAT. #RC-3TLB-W ALL LIGHT SWITCH(ES)/DIMMER(S) SHALL BE INSTALLED IN OUTLET BOX C/W CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE. BUTTONS SHALL BE COMPLETE WITH ENGRAVE 'ON/OFF OR ZONE'; 'RAISE'; 'LOWER' DESIGNATION.
RC	ROOM CONTROLLER COOPER, CAT. #RC3D-PL
OS	DUAL TECH WALL MOUNTED OCCUPANCY SENSOR COOPER, CAT. #OAWC-DT-120W-R C/W OCCUPANCY SENSOR COUPLER COOPER, #OCC-RJ45
OS	DUAL TECH CEILING MOUNTED OCCUPANCY SENSOR COOPER, CAT. #OAC-DT-1000-R C/W OCCUPANCY SENSOR COUPLER COOPER, #OCC-RJ45
LS	DAYLIGHT SENSOR (WHERE APPLICABLE) COOPER, CAT. #DSRC-FMOIR C/W QUICK CONNECT COUPLER COOPER, CAT. #GGRC-COUPLER (IN GYM, DAYLIGHT SENSOR SHALL BE C/W GGRC-SPLITTER)
RS	RECEPTACLE RATED SWITCHPACK (WHERE APPLICABLE) COOPER CAT. #SPRC-R-20-120
	RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR THROUGH RECEPTACLE RATED SWITCHPACK/ROOM CONTROLLER REFER TO ELECTRICAL FLOOR PLAN(S) FOR POWER LAYOUT(S) FOR EXACT LOCATION(S) AND CIRCUIT NUMBER(S) IN EACH RESPECTIVE ROOM(S)/AREA(S).

NOTES

1. RJ45 QUICK CONNECT CABLE LENGTHS SHALL BE PROVIDED AS PER SITE MEASUREMENTS. REFER TO FLOOR PLAN(S).
2. AUTO-ON SEQUENCE FOR DIGITAL DIMMING CONTROL OF LIGHT FIXTURE(S) & RECEPTACLE(S):
   - A. FOR DIGITAL LIGHTING CONTROL WITH ROOM CONTROLLER(S) IN TYPICAL CLASSROOM(S) / SPACE(S)/AREA(S); THE ROOM CONTROLLER(S) SHALL BE PROGRAMMED TO ACHIEVE THE FOLLOWING AUTO-ON SEQUENCE FOR LIGHT FIXTURE(S) & RECEPTACLE(S) IN RESPECTIVE CLASSROOM(S)/ROOM(S)/AREA(S):
     - .1 WHEN ROOM/SPACE IS OCCUPIED; THE OCCUPANCY SENSOR(S) OF THE RESPECTIVE ROOM/ SPACE THROUGH ROOM CONTROLLER(S) SHALL AUTOMATICALLY TURN 'ON' ALL LIGHT FIXTURE(S) TO 50% OUTPUT LEVEL & ENERGIZE RECEPTACLE(S) CONNECTED TO RECEPTACLE RATED SWITCHPACK (WHERE APPLICABLE).
     - .2 DIMMER SWITCH(ES) SHALL BE READY TO DIM OR RISE LIGHT FIXTURE(S) OUTPUT LEVEL AS PER USER DESIRED SETTING(S) USE OF THE RESPECTIVE LIGHTING/SWITCH ZONE(S).
     - .3 100% OUTPUT LEVEL OF LIGHTING FIXTURE(S) OF EACH RESPECTIVE LIGHTING/SWITCH ZONE(S) IN THE RESPECTIVE ROOM / SPACE SHALL BE ACHIEVED MANUALLY EITHER BY PRESSING ON/OFF PUSH BUTTON OR DIMMING BUTTON(S) OF WALLSTATION(S)/DIMMER SWITCH(ES).
     - .4 DAYLIGHT SENSOR (WHERE APPLICABLE) SHALL BE PROGRAMMED/SET SUCH THAT LIGHTING FIXTURE(S) MOUNTED IN BOTH PRIMARY SIDE LIGHTING AND SECONDARY SIDE LIGHTING (WHERE APPLICABLE) AREA(S) SHALL BE AUTOMATICALLY DIM/RISE TO MAINTAIN 45FC LIGHTING OUTPUT LEVEL AT ALL TIME IN BOTH SIDE LIGHTING AREA(S).
     - .5 IF THE SPACE / ROOM IS NOT OCCUPIED FOR 20 MINUTES; OCCUPANCY SENSOR(S) SHALL TURN 'OFF' ALL LIGHT FIXTURE(S) IN THE RESPECTIVE ROOM / SPACE & DE-ENERGIZE RECEPTACLE(S) CONNECTED TO RECEPTACLE RATED SWITCHPACK (WHERE APPLICABLE). STATUS OF DIMMER LIGHT SWITCH(ES) OF EACH RESPECTIVE LIGHTING/SWITCH ZONE(S) SHALL RESET TO UNOCCUPIED SETTINGS. (i.e. ROOM CONTROLLER(S) SHALL BE SET TO AUTO-ON SETTING FOR 50% OUTPUT LEVEL OF ALL LIGHT FIXTURES AS DESCRIBED ABOVE).
   - B. FOR DIGITAL LIGHTING CONTROL IN GENERAL PURPOSE ROOM (GYM); THE ROOM CONTROLLER(S) SHALL BE PROGRAMMED TO ACHIEVE THE FOLLOWING AUTO-ON SEQUENCE OF LIGHT FIXTURE(S) IN RESPECTIVE EACH THIRD OF GYM:
     - .1 LIGHTING FIXTURES (ON CIRCUITS AS SHOWN ON FLOOR PLAN) IN EACH HALF OF GYM SHALL BE CONTROLLED THROUGH THE RESPECTIVE ROOM CONTROLLER(S) CONNECTED TO THE RESPECTIVE LIGHTING CIRCUIT(S). ROOM CONTROLLER(S) SHALL CONTROL GYM LIGHT FIXTURES IN EACH HALF OF GYM WITH ASSOCIATED TWO(2) OCCUPANCY SENSORS AND WALL STATIONS.
     - .2 WHEN ANY HALF OF GYM IS OCCUPIED; THE OCCUPANCY SENSOR(S) THROUGH ROOM CONTROLLER(S) SHALL AUTOMATICALLY TURN 'ON' ALL LIGHTING FIXTURE(S) TO 50% OUTPUT LEVEL OF RESPECTIVE HALF OF GYM AREA.
     - .3 DIMMER SWITCH(ES) SHALL BE READY TO DIM OR RISE LIGHT FIXTURE(S) OUTPUT LEVEL AS PER USER DESIRED SETTING(S) USE OF THE RESPECTIVE LIGHTING/SWITCH ZONE(S).
     - .4 100% OUTPUT LEVEL OF LIGHTING FIXTURE(S) OF EACH RESPECTIVE LIGHTING/SWITCH ZONE(S) IN RESPECTIVE EACH HALF OF GYM SHALL BE ACHIEVED MANUALLY EITHER BY PRESSING ON/OFF PUSH BUTTON OR DIMMING BUTTON(S) OF WALLSTATION(S)/DIMMER SWITCH(ES).
     - .5 IF ANY HALF OF GYM IS NOT OCCUPIED FOR 20 MINUTES; OCCUPANCY SENSOR(S) SHALL TURN 'OFF' ALL LIGHT FIXTURE(S) IN THE RESPECTIVE HALF OF GYM. STATUS OF DIMMER LIGHT SWITCH(ES) OF EACH RESPECTIVE LIGHTING/SWITCH ZONE(S) SHALL RESET TO UNOCCUPIED SETTINGS. (i.e. ROOM CONTRLLER(S) SHALL BE SET TO AUTO-ON SETTING FOR 50% OUTPUT LEVEL OF THE LIGHTING FIXTURE(S) AS DESCRIBED ABOVE).



NOTES:

1. THIS SCHEMATIC DIAGRAM IS FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS TO ACHIEVE INTENT OF WORK AS SHOWN FOR THE REQUIRED AREAS/SPACES.
2. NUMBER OF DOUBLE POLE SINGLE THROW BY PASS KEY SWITCHES MOUNTED ON CLASSROOM CONTROL PANEL/WALL SHALL BE PROVIDED TO SUIT NUMBER OF SWITCHING ZONE(S) OF EACH ROOM CONTROLLER IN RESPECTIVE ROOM/SPACE/AREA.
3. NUMBER OF SINGLE POLE DOUBLE THROW BY PASS SWITCHES LOCATED IN CEILING SPACE SHALL BE PROVIDED TO SUIT NUMBER OF LIGHTING CIRCUITS OF EACH ROOM CONTROLLER IN RESPECTIVE ROOM/SPACE/AREA.

3 / E601

TYPICAL 120V LIGHTING CIRCUIT WIRING SCHEMATIC WITH ROOM CONTROLLER (RC)

SCALE: N.T.S.

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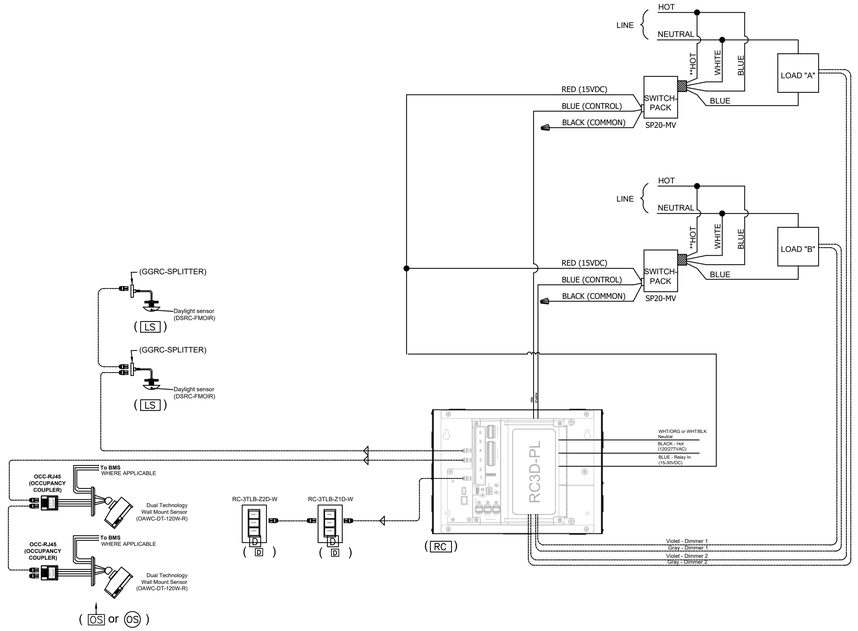
PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
WHITBY ON, L1P1N9

DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL ROOM CONTROLLER DETAIL (1)

DESIGN BY:	TH
DRAWN BY:	TH
CHECKED BY:	FH
DATE:	-
SCALE:	AS SHOWN
SEAL:	
PROJECT NO:	25041
DRAWING NO:	E601



1A / E602

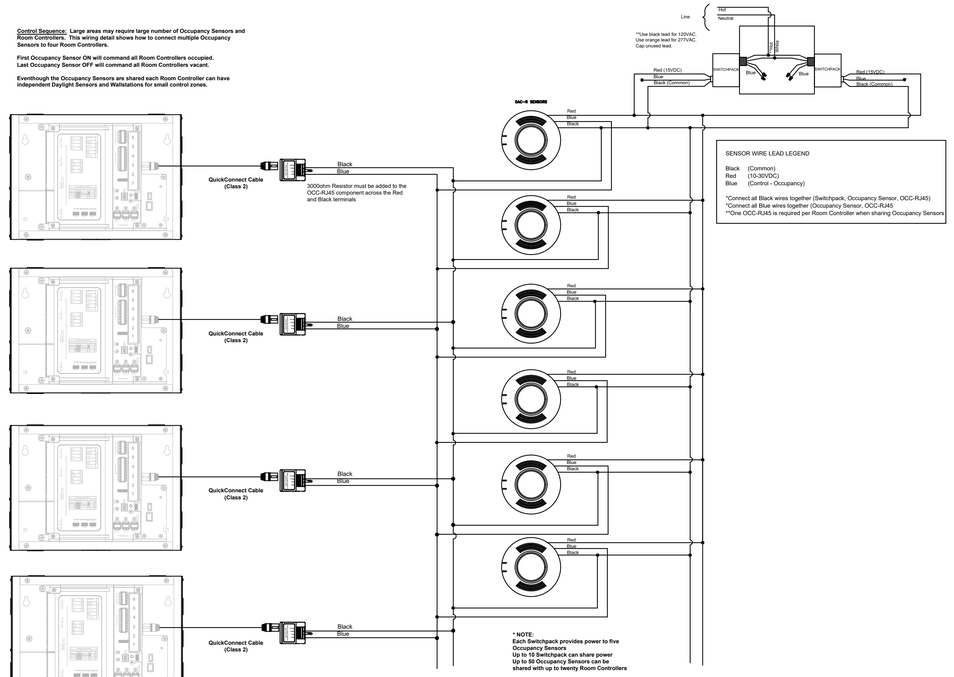
TYPICAL SCHEMATIC WIRING DIAGRAM FOR ROOM(S) WITH ONE ROOM CONTROLLER, TWO(2) CIRCUIT(S) AND TWO (2) LIGHT SENSORS

SCALE: N.T.S.

Control Sequence: **Large areas may require large number of Occupancy Sensors and Room Controllers. This wiring detail shows how to connect multiple Occupancy Sensors to four Room Controllers.**

First Occupancy Sensor ON will command all Room Controllers occupied.
Last Occupancy Sensor OFF will command all Room Controllers vacant.

Eventhough the Occupancy Sensors are shared each Room Controller can have independent Daylight Sensors and Wallstations for small control zones.



PROVIDE ADDITIONAL DEVICES WIRING/POWER PACK(S)/COMPONENTS FOR COMPLETE SYSTEM OPERATION, AS SHOWN ON FLOOR PLANS.

1B / E602

TYPICAL SCHEMATIC WIRING DIAGRAM FOR AREAS WITH MORE THAN TWO (2) OCCUPANCY SENSORS

SCALE: N.T.S.

LEGEND:

———	120V CIRCUIT
- - - - - -	RJ45 QUICK CONNECT CABLE
~~	0-10V LOW VOLTAGE DIMMING CABLE
D D	ROOM CONTROLLER WALLSTATION (LIGHT SWITCH/DIMMER - MOUNTED ON CLASSROOM CONTROL PANEL/WALL) COOPER, CAT. #RC-3TLB-W ALL LIGHT SWITCH(ES)/DIMMER(S) SHALL BE INSTALLED IN OUTLET BOX C/W CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE. BUTTONS SHALL BE COMPLETE WITH ENGRAVE 'ON/OFF OR ZONE'; 'RAISE'; 'LOWER' DESIGNATION.
RC	ROOM CONTROLLER COOPER, CAT. #RC3D-PL
OS	DUAL TECH WALL MOUNTED OCCUPANCY SENSOR COOPER, CAT. #OAWC-DT-120W-R C/W OCCUPANCY SENSOR COUPLER COOPER, #OCC-RJ45
OS	DUAL TECH CEILING MOUNTED OCCUPANCY SENSOR COOPER, CAT. #OAC-DT-1000-R C/W OCCUPANCY SENSOR COUPLER COOPER, #OCC-RJ45
LS	DAYLIGHT SENSOR (WHERE APPLICABLE) COOPER, CAT. #DSRC-FMOIR C/W QUICK CONNECT COUPLER COOPER, CAT. #GGRC-COUPLER (IN GYM, DAYLIGHT SENSOR SHALL BE C/W GGRC-SPLITTER)
RS	RECEPTACLE RATED SWITCHPACK (WHERE APPLICABLE) COOPER CAT. #SPRC-R-20-120
	RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR THROUGH RECEPTACLE RATED SWITCHPACK/ROOM CONTROLLER REFER TO ELECTRICAL FLOOR PLAN(S) FOR POWER LAYOUT(S) FOR EXACT LOCATION(S) AND CIRCUIT NUMBER(S) IN EACH RESPECTIVE ROOM(S)/AREA(S).

NOTES

1. RJ45 QUICK CONNECT CABLE LENGTHS SHALL BE PROVIDED AS PER SITE MEASUREMENTS. REFER TO FLOOR PLAN(S).
2. AUTO-ON SEQUENCE FOR DIGITAL DIMMING CONTROL OF LIGHT FIXTURE(S) & RECEPTACLE(S):
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     - .1 WHEN ROOM/SPACE IS OCCUPIED; THE OCCUPANCY SENSOR(S) OF THE RESPECTIVE ROOM/ SPACE THROUGH ROOM CONTROLLER(S) SHALL AUTOMATICALLY TURN 'ON' ALL LIGHT FIXTURE(S) TO 50% OUTPUT LEVEL & ENERGIZE RECEPTACLE(S) CONNECTED TO RECEPTACLE RATED SWITCHPACK (WHERE APPLICABLE).
     - .2 DIMMER SWITCH(ES) SHALL BE READY TO DIM OR RISE LIGHT FIXTURE(S) OUTPUT LEVEL AS PER USER DESIRED SETTING(S) USE OF THE RESPECTIVE LIGHTING/SWITCH ZONE(S).
     - .3 100% OUTPUT LEVEL OF LIGHTING FIXTURE(S) OF EACH RESPECTIVE LIGHTING/SWITCH ZONE(S) IN THE RESPECTIVE ROOM / SPACE SHALL BE ACHIEVED MANUALLY EITHER BY PRESSING ON/OFF PUSH BUTTON OR DIMMING BUTTON(S) OF WALLSTATION(S)/DIMMER SWITCH(ES).
     - .4 DAYLIGHT SENSOR (WHERE APPLICABLE) SHALL BE PROGRAMMED/SET SUCH THAT LIGHTING FIXTURE(S) MOUNTED IN BOTH PRIMARY SIDE LIGHTING AND SECONDARY SIDE LIGHTING (WHERE APPLICABLE) AREA(S) SHALL BE AUTOMATICALLY DIM/RISE TO MAINTAIN 45FC LIGHTING OUTPUT LEVEL AT ALL TIME IN BOTH SIDE LIGHTING AREA(S).
     - .5 IF THE SPACE / ROOM IS NOT OCCUPIED FOR 20 MINUTES; OCCUPANCY SENSOR(S) SHALL TURN 'OFF' ALL LIGHT FIXTURE(S) IN THE RESPECTIVE ROOM / SPACE & DE-ENERGIZE RECEPTACLE(S) CONNECTED TO RECEPTACLE RATED SWITCHPACK (WHERE APPLICABLE). STATUS OF DIMMER LIGHT SWITCH(ES) OF EACH RESPECTIVE LIGHTING/SWITCH ZONE(S) SHALL RESET TO UNOCCUPIED SETTINGS. (i.e. ROOM CONTROLLER(S) SHALL BE SET TO AUTO-ON SETTING FOR 50% OUTPUT LEVEL OF ALL LIGHT FIXTURES AS DESCRIBED ABOVE).
   - B. FOR DIGITAL LIGHTING CONTROL IN GENERAL PURPOSE ROOM (GYM); THE ROOM CONTROLLER(S) SHALL BE PROGRAMMED TO ACHIEVE THE FOLLOWING AUTO-ON SEQUENCE OF LIGHT FIXTURE(S) IN RESPECTIVE EACH THIRD OF GYM:
     - .1 LIGHTING FIXTURES (ON CIRCUITS AS SHOWN ON FLOOR PLAN) IN EACH HALF OF GYM SHALL BE CONTROLLED THROUGH THE RESPECTIVE ROOM CONTROLLER(S) CONNECTED TO THE RESPECTIVE LIGHTING CIRCUIT(S). ROOM CONTROLLER(S) SHALL CONTROL GYM LIGHT FIXTURES IN EACH HALF OF GYM WITH ASSOCIATED TWO(2) OCCUPANCY SENSORS AND WALL STATIONS.
     - .2 WHEN ANY HALF OF GYM IS OCCUPIED; THE OCCUPANCY SENSOR(S) THROUGH ROOM CONTROLLER(S) SHALL AUTOMATICALLY TURN 'ON' ALL LIGHTING FIXTURE(S) TO 50% OUTPUT LEVEL OF RESPECTIVE HALF OF GYM AREA.
     - .3 DIMMER SWITCH(ES) SHALL BE READY TO DIM OR RISE LIGHT FIXTURE(S) OUTPUT LEVEL AS PER USER DESIRED SETTING(S) USE OF THE RESPECTIVE LIGHTING/SWITCH ZONE(S).
     - .4 100% OUTPUT LEVEL OF LIGHTING FIXTURE(S) OF EACH RESPECTIVE LIGHTING/SWITCH ZONE(S) IN RESPECTIVE EACH HALF OF GYM SHALL BE ACHIEVED MANUALLY EITHER BY PRESSING ON/OFF PUSH BUTTON OR DIMMING BUTTON(S) OF WALLSTATION(S)/DIMMER SWITCH(ES).
     - .5 IF ANY HALF OF GYM IS NOT OCCUPIED FOR 20 MINUTES; OCCUPANCY SENSOR(S) SHALL TURN 'OFF' ALL LIGHT FIXTURE(S) IN THE RESPECTIVE HALF OF GYM. STATUS OF DIMMER LIGHT SWITCH(ES) OF EACH RESPECTIVE LIGHTING/SWITCH ZONE(S) SHALL RESET TO UNOCCUPIED SETTINGS. (i.e. ROOM CONTRLLER(S) SHALL BE SET TO AUTO-ON SETTING FOR 50% OUTPUT LEVEL OF THE LIGHTING FIXTURE(S) AS DESCRIBED ABOVE).

1 / E602

TYPICAL DIGITAL DIMMING CONTROL SCHEMATIC WIRING DIAGRAM(S) WITH ROOM CONTROLLER(S)

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PROJECT:
EIGHT CLASSROOM ADDITION
ST. LUKE THE EVANGELIST CATHOLIC SCHOOL

55 TWIN STREAMS ROAD,
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DCDSB TENDER #: T27-01

DRAWING:
ELECTRICAL ROOM CONTROLLER DETAIL (2)

DESIGN BY:	TH
DRAWN BY:	TH
CHECKED BY:	FH
DATE:	-
SCALE:	AS SHOWN
SEAL:	
PROJECT NO:	25041
DRAWING NO:	E602