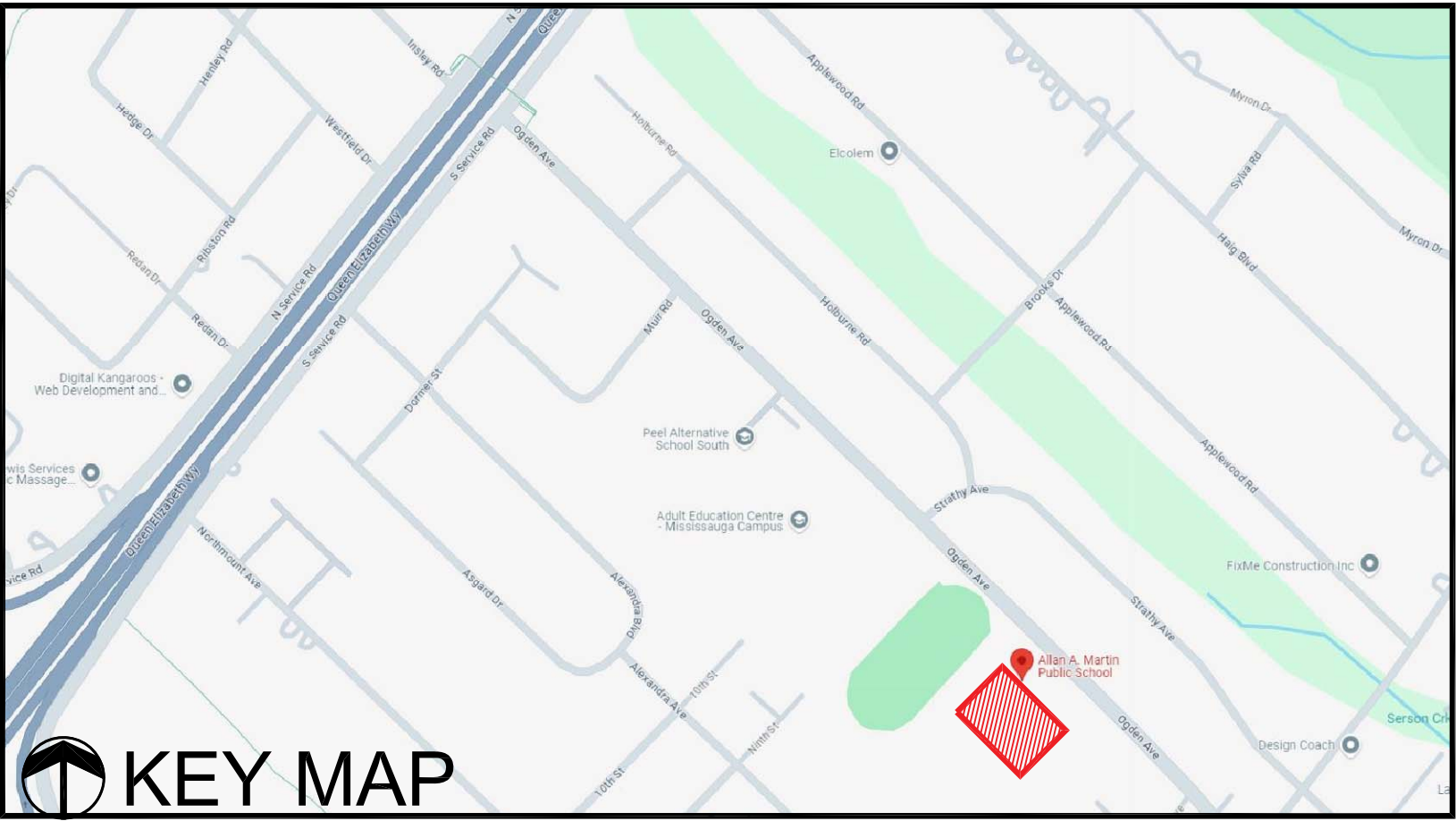


APPENDIX H - DRAWINGS

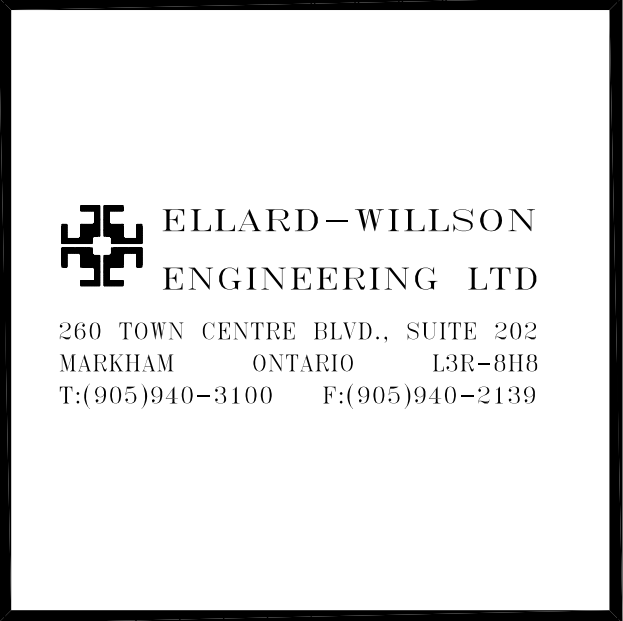
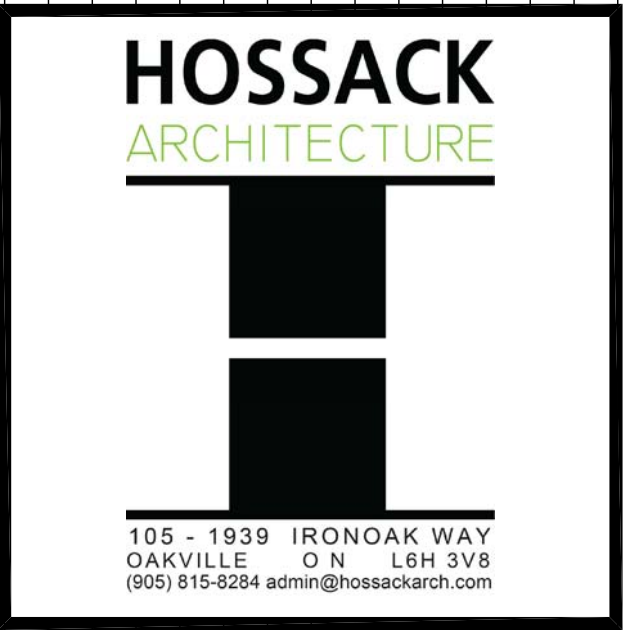


ALLAN A MARTIN PS ELEVATOR
AND WASHROOM ADDITION

1390 OGDEN AVENUE, MISSISSAUGA, ON L5E 2H8

APRIL 2025

TENDER RFQMA25-5186



ADDITION TO ALLAN A MARTIN
PUBLIC SCHOOL

DRAWING LIST

- ARCHITECTURAL DRAWINGS
- SP1 SITE PLAN AND BUILDING STATISTICS
 - A01 KEY PLAN, SCHEDULES, FIRE SEPARATIONS, GENERAL NOTES AND OBC MATRIX
 - A02 PART GROUND FLOOR DEMOLITION FLOOR PLAN AND PROPOSED FLOOR PLAN AND DETAILS
 - A03 PART GROUND FLOOR DEMOLITION REFLECTIVE CEILING FLOOR PLAN AND PROPOSED REFLECTIVE CEILING FLOOR PLAN
 - A04 PART SECOND FLOOR DEMOLITION FLOOR PLAN AND PROPOSED FLOOR PLAN AND ROOF PLAN
 - A05 PART SECOND FLOOR DEMOLITION REFLECTIVE CEILING FLOOR PLAN AND PROPOSED REFLECTIVE CEILING FLOOR PLAN
 - A06 DEMOLITION ELEVATION, EXTERIOR ELEVATIONS
 - A07 BUILDING SECTIONS AND DETAILS
 - A08 BUILDING SECTIONS AND DETAILS
 - A09 ENLARGED WASHROOM FLOOR PLANS, INTERIOR ELEVATIONS, WALL SECTIONS AND DETAILS

- CIVIL DRAWINGS
- CV-1 SERVICING AND GRADING PLAN

- STRUCTURAL DRAWINGS
- S0.0 COVER PAGE
 - S1.0 FOUNDATION PLAN
 - S2.0 FOUNDATION SECTIONS AND TYP. DETAILS
 - S3.0 SECOND FLOOR FRAMING PLAN
 - S3.1 ROOF FRAMING PLAN
 - S4.0 FRAMING SECTIONS AND TYP. DETAILS

- MECHANICAL DRAWINGS
- M1 HAVC- GROUND PART FLOOR PLANS
 - M2 HAVC- SECOND PART FLOOR PLANS
 - M3 HVAC- SPECIFICATIONS, SCHEDULE AND DETAILS
 - M4 HVAC LOAD ANALYSIS
 - PD1 PLUMBING AND DRAINAGE- PART FLOOR PLANS AND LEGENDS
 - PD2 PLUMBING AND DRAINAGE - SPECIFICATIONS AND DETAILS

- SPRINKLER DRAWINGS
- SP1 PROPOSED SPRINKLER LAYOUT & DETAILS
 - SP2 SPECIFICATIONS & DETAILS

- ELECTRICAL DRAWINGS
- E1 ELECTRICAL LEGEND OF SYMBOLS AND DETAILS
 - E2 ELECTRICAL OVERALL KEY PLAN
 - E3 ELECTRICAL PART OF GROUND AND SECOND FLOOR LAYOUTS
 - E4 ELECTRICAL RISER DIAGRAMS
 - E5 ELECTRICAL SPECIFICATIONS

SET No.

24126

1. ALL MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO THE CURRENT PEEB LOCAL WORKS STANDARDS AND SPECIFICATIONS.
2. WATERMANS AND/OR WATER SERVICE MATERIALS 100 MM (4") AND LARGER MUST BE DR 18 P.V.C. PIPE MANUFACTURED TO A.W.W.A. SPEC. C900-18 SPEC. COMPLETE WITH TRACER WIRE. SIZE 50 MM (2") AND SMALLER MUST BE TYPE K SOFT COPPER CONFORMING TO A.S.M.E. SPEC. B36.10-19.
3. WATERMANS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 1.7 M (5'6") WITH A MINIMUM HORIZONTAL SPACING OF 1.2 M (4") FROM THEMSELVES AND ALL OTHER UTILITIES.
4. FUSION JOINTS ON ALL P.V.C. MUST BE PROVIDED WITH AT LEAST A 5.0 MM (2") OUTLET ON ALL 100 MM (4") AND LARGER LINES. COPPER LINES ARE TO HAVE FUSING POINTS AT THE END, THE SAME SIZE AS THE LINE. THEY MUST ALSO BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN INTO A PARKING LOT OR DOWN A DRAIN, ON FIRE LINES.
5. ALL CURB STOPS ARE TO BE 3.0 M (10') OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
6. HYDRANT AND VALVE SET TO REGION STANDARD 1 - 6 - 1 DIMENSION A AND B, 0.7 M (2'2") AND 0.9 M (3') AND HAVE TO BE TYPICALLY 100 MM (4").
7. WATERMANS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVED SITE PLAN. COPY OF GRADE SHEET MUST BE SUPPLIED TO THE CONTRACTOR FOR THE WATERMANS TO BE INSTALLED TO THE CORRECT GRADE.
8. WATERMANS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.3 M (12") OVER / 0.5 M (20") UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
9. ALL WATERMANS AND WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
10. ALL WATERMANS AND WATER PIPING MUST BE SUPPORTED FROM THE REGIONAL INSPECTOR ASSIGNED TO THE AREA AND/OR BY CONTACTING THE OPERATIONS AND MAINTENANCE DIVISION.
11. LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR.
12. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATING, EXPOSING AND PROTECTING OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF THEIR WORK.
13. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATING, EXPOSING AND PROTECTING OF ALL EXISTING UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF THEIR WORK.
14. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO THE UTILITIES PRIOR TO CROSSING SUCH UTILITIES, FOR THE PURPOSE OF INSPECTION BY THE CONCERNED UTILITY. THIS INSPECTION WILL BE FOR THE DURATION OF THE CONSTRUCTION, WITH THE CONTRACTOR(S) PROVIDING THE UTILITY WITH A COPY OF THE BACKLOG PREVENTION OF THE ACTIVE DISTRIBUTION SYSTEM, CONFORMING TO REGION OF PEEB STANDARDS 1-7-7 OR 1-7-8.

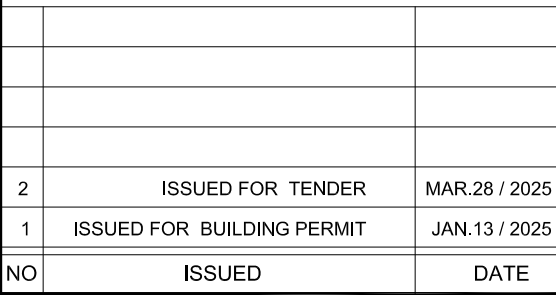
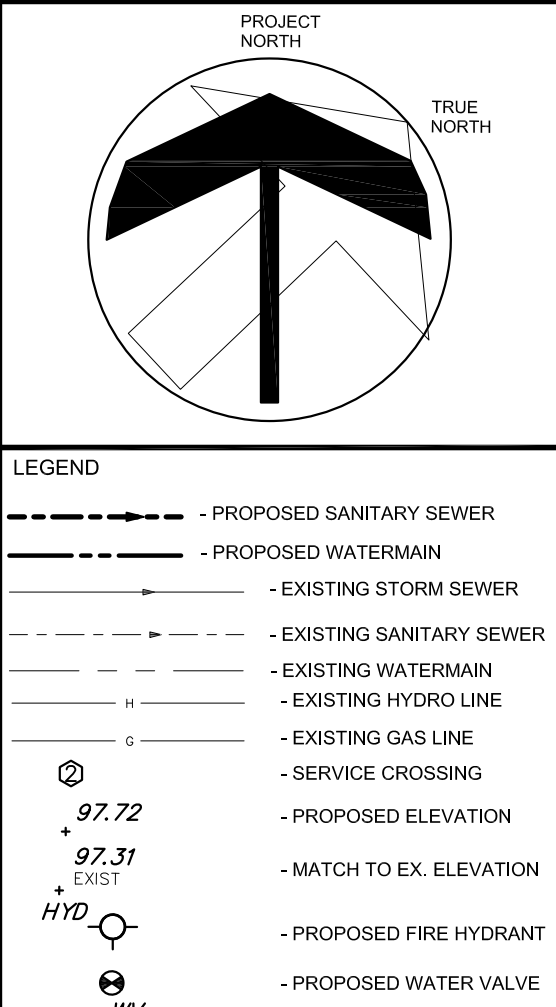
*ASSUMED 1.0m COVER OVER EXISTING HYDRO & GAS LINES.
CONTRACTOR TO CONFIRM DEPTH OF EXISTING HYDRO & GAS
LINES PRIOR TO CONSTRUCTION.

- (b) ALL SURFACE DRAINAGE WILL BE SELF-CONTAINED, COLLECTED AND DISCHARGED AT A LOCATION TO BE DETERMINED BY THE MUNICIPAL ENGINEER TO MAINTAIN THE DRAINAGE OF THE ADJACENT PROPERTY.
- (c) THE PORTIONS OF THE DRIVEWAY WITHIN THE MUNICIPAL BOROUGH WILL BE PAVED BY THE APPLICANT.
- (d) AT THE ENTRANCES TO THE SITE, THE MUNICIPAL CURB AND SIDEWALK WILL BE CONTINUOUS THROUGH THE DRIVEWAY AND A CURB DEPRESSION WILL BE PROVIDED FOR EACH ENTRANCE.
- (e) THE APPLICANT SHALL BE RESPONSIBLE FOR THE COST OF ANY WORKS AS IT SUIT AS FOLLOWS: (1) FOR ALL SINGLE FAMILY RESIDENTIAL PROPERTIES INCLUDING ON STREET TOWNHOUSES, OR CURBS TO STOP AT THE PROPERTY LIMIT OR THE BACK OF THE MUNICIPAL SIDEWALK, WHICHEVER IS APPLICABLE; OR (2) FOR ALL OTHER PROPERTIES INCLUDING INDUSTRIAL AND COMMERCIAL DEVELOPMENTS, ALL ENTRANCES TO THE SITE ARE TO BE IN ACCORDANCE WITH OPSD 350.010 (SAVE AND ACCEPT DETAIL, "A" WHICH SHALL MATCH THE WEDGESSA STANDARD 224-0103).
- (f) ALL EXCESS EXCAVATED MATERIAL, WHEN REQUIRED FROM THE SITE.
- (g) THE EXISTING DRAINAGE PATTERN WILL BE MAINTAINED EXCEPT WHERE NOTED.
- (h) THE APPLICANT WILL BE REQUIRED TO CONTACT ALL UTILITY COMPANIES TO OBTAIN ALL REQUIRED LOCATIONS PRIOR TO THE INSTALLATION OF HOARDING WITHIN THE MUNICIPAL RIGHT-OF-WAY.
- (i) THE APPLICANT WILL BE RESPONSIBLE FOR THE COST OF ANY UTILITY RELOCATIONS NECESSITATED BY THE SITE.
- (j) PRIOR TO COMMENCING CONSTRUCTION, ALL REQUIRED HOARDING IN ACCORDANCE WITH THE ONTARIO CONSTRUCTION ACT AND THE LOCALITY ACT FOR ALL CONSTRUCTION PROJECTS, MUST BE ERECTED AND THEN MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION.
- (k) SHOULD ANY WORKS BE REQUIRED WITHIN THE MUNICIPAL RIGHT-OF-WAY, A ROAD OCCUPANCY PERMIT WILL BE REQUIRED. PUCC APPROVAL WILL BE REQUIRED. FOR FURTHER INFORMATION PLEASE, CONTACT THE PUCO/PERMIT OFFICE.

2. ALL SITE GRADING SHALL BE CARRIED OUT IN ACCORDANCE WITH OPSF 206.
3. ALL MATERIALS ENCOUNTERED DURING EXCAVATION THAT ARE NOT SUITABLE FOR REUSE SHALL BE PROPERLY STORED AND DISPOSED OFF SITE, IN ACCORDANCE WITH CURRENT REGULATIONS.
4. ALL GRANULAR MATERIALS SHALL CONFORM TO OPSF 1010 AND BE COMPACTED TO THE REQUIRED DENSITY WITH PROPER EQUIPMENT.
5. ALL ASPHALT SHALL CONFORM TO OPSF 1010 AND BE COMPACTED TO THE REQUIRED DENSITY WITH PROPER EQUIPMENT.
6. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH OPSF 1100.
7. ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH OPSF 351 AND CONSTRUCTED AS PER OPSF 310.010.
8. ALL CURB OR CURB AND GUTTER SHALL BE CONSTRUCTED AS PER OPSF 353.
9. ALL CONCRETE BARRIER CURB SHALL BE CONSTRUCTED AS PER OPSF 600.110.
10. ALL CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED AS PER OPSF 600.040.
11. ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH OPSF 600.110.
12. ALL EXISTING AND NEW SEEDMENT CONTAINERS, REFER TO MWD DRAWING CY-1 SHALL BE CONSTRUCTED AS PER OPSF 600.010.
13. ALL DISTURBED GRASSY AREAS ARE TO BE RESTORED WITH 150mm depth of TOPSOIL AND SOD.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK WITHIN THE PROPERTY LINE AND ANY WORK SPECIFICALLY NOTED OUTSIDE OF THE PROPERTY LINE.
15. ALL MATERIALS AFFECTED BY THE PROPOSED WORKS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.

CONTRACTOR TO CONTACT MGM CONSULTING INC. IMMEDIATELY SHOULD THERE BE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND PROPOSED GRADING AND/OR SERVICING DESIGN, OR CONFLICTS IN CONSTRUCTING THE WORK AS PER THE INTENT OF THE APPROVED DESIGN PRIOR TO CONSTRUCTION.

1. ALL WORK TO CONFORM TO THE LATEST MUNICIPAL STANDARDS AND SPECIFICATIONS AND THE LATEST ADOPTED ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
2. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER TO SATISFACTION OF THE MUNICIPALITY AND MGM CONSULTING INC.
3. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES AND UTILITIES PRIOR TO NEW DRAINAGE CONSTRUCTION.
4. CONTRACTOR TO LOCATE AND CONFIRM ALL EXISTING UTILITIES AND SERVICE INFORMATION PRIOR CONSTRUCTION.
5. CONTRACTOR TO ENSURE ADEQUATE CLEARANCE FROM ALL EXISTING SERVICES AND UTILITIES.
6. CONTRACTOR TO CONFIRM ALL EXISTING INVERTS PRIOR TO INTERNAL SERVING.
7. CONTRACTOR TO CONFIRM THE PAVEMENT STRUCTURE THICKNESS' BASED ON THE GEOTECHNICAL REPORT.



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

TOPOGRAPHIC SURVEY PROVIDED BY
TARASICK McMillan KUBICKI LIMITED
ONTARIO LAND SURVEYORS
4181 SLADEVIEW CRESCENT,
UNIT 42, MISSISSAUGA,
ONTARIO L2L 5R2
TEL: (905) 569-8849
FILE No. 5420-T, DATED AUGUST 24, 2009

ELEVATION NOTE
ELEVATIONS ARE REFERRED TO CITY OF MISSISSAUGA DATUM AND WERE DERIVED FROM BENCHMARK No. 14, HAVING A PUBLISHED ELEVATION OF 102.557 metres.

CAUTION: TO OBTAIN GEODETIC ELEVATIONS (1978 RE-ADJUSTMENT), SUBTRACT 0.12 m FROM THE VALUES SHOWN HEREON.

ADDITION TO ALLAN A
MARTIN PUBLIC SCHOOL

1390 OGDEN AVENUE
MISSISSAUGA, ON

• peel District
School Board

3546 SOUTH COMMON COURT,
MISSISSAUGA, ON L5L 2B1



MGM
CONSULTING INC
Consulting Engineering & Project Management
555 Industrial Drive
Suite 201
Milton, Ontario
L9T 5E1
Tel: (905) 367-8678
Fax: (905) 375-1339
Email: mgm@mgn.on.ca
www.mgm.on.ca

SERVICING &
GRADING PLAN

HOSSACK
& ASSOCIATES
ARCHITECTS



SCALE	PROJECT
1:150	2024-063
DATE	

DRAWN	DRAWING
BN	
CHECKED	CV-1
AK	

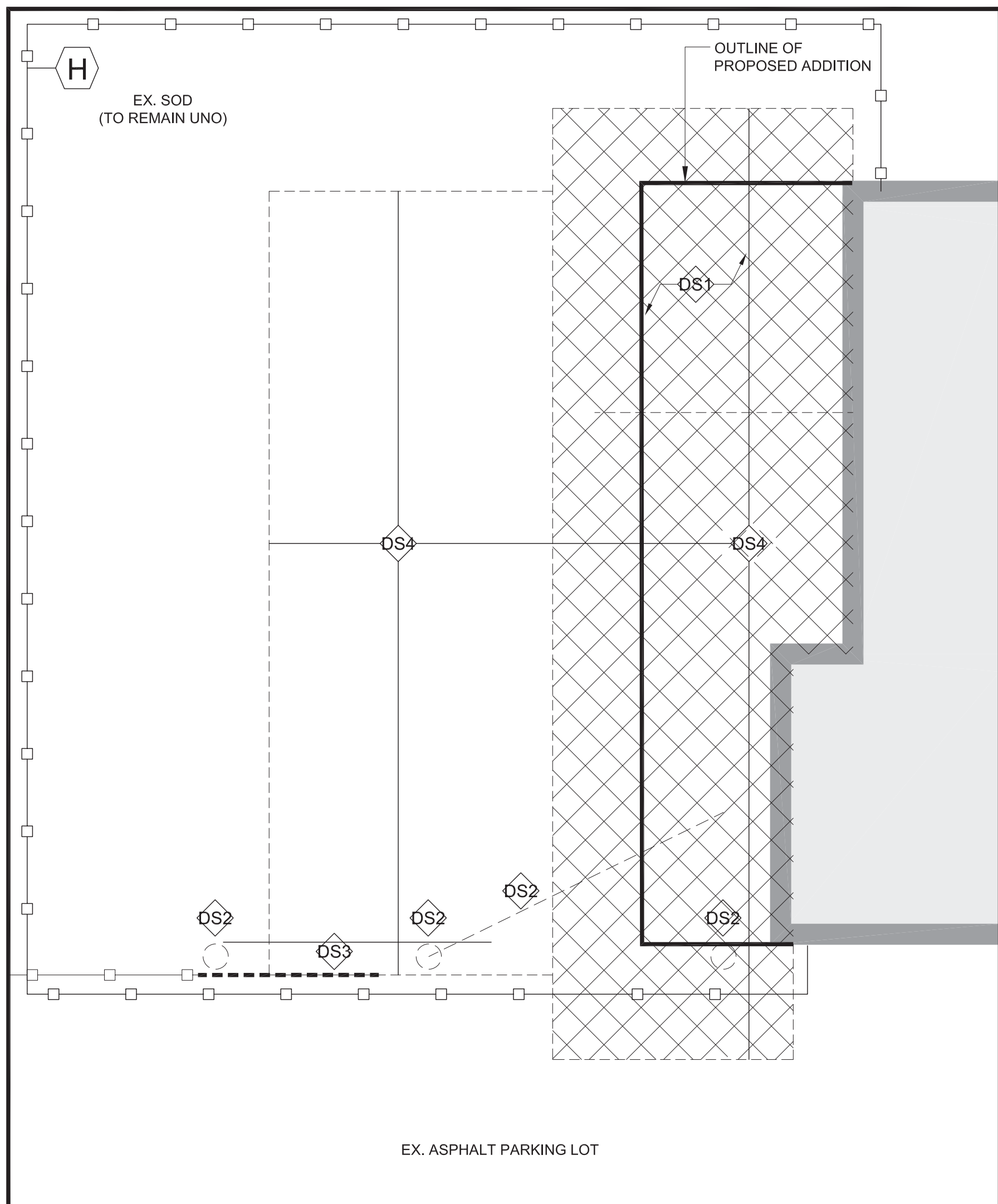
PROPOSED SITE PLAN NOTES

- G.C. IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- ALL REMOVALS/DEMOLITIONS TO BE COORDINATED WITH STRUCTURAL, MECHANICAL, ELECTRICAL DRAWINGS PRIOR TO DEMOLITION START. FOR ADDITIONAL DEMOLITION, DOCUMENTS AND DETAILS SEE STRUCTURAL, MECH. AND ELECT. DWGS.
- GENERAL CONTRACTOR TO X-RAY ALL EXISTING CONCRETE FLOOR SLABS AND COMPLETE LOCATES WITHIN EXCAVATION/SITE RENOVATION WORKS AREA PRIOR TO DEMOLITION. IF EXISTING WIRES, CONDUIT, PIPING, SERVICES, ETC. CUT CONTRACTOR IS RESPONSIBLE TO RESTORE ALL. SEE SPEC.
- AREA OF WORK TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION. ALL OF CONSTRUCTION DUST, DEBRIS AND MATERIALS AS PER SPECIFICATION SECTION 017411.
- CONTRACTOR TO SUPPLY AND INSTALL NEW MD MEDIUM ASPHALT PAVEMENT AND GRANULAR SUB BASE. REFER TO AD DETAIL AND GEOTECHNICAL REPORT
 - CONTRACTOR TO INSTALL EXISTING GALVANIZED FIRE GATE WITH NEW BELOW GRADE HOT DIP GALVANIZED STEEL HSS POST IN CONCRETE FOOTING AT 3 LOCATIONS. REFER TO AD DETAILS.
 - CONTRACTOR TO INSTALL NEW STRUCTURAL CONCRETE FOREST SLAB. REFER TO FLOOR PLANS FOR SIZES AND STRUCTURAL & ARCHITECTURAL DETAILS.
 - CONTRACTOR TO INSTALL NEW END POST AND CONCRETE FOOTING TO EXISTING FENCE. REWORK EXISTING FENCE TO SUIT PROPOSED RENOVATION. REFER TO AD DETAILS.

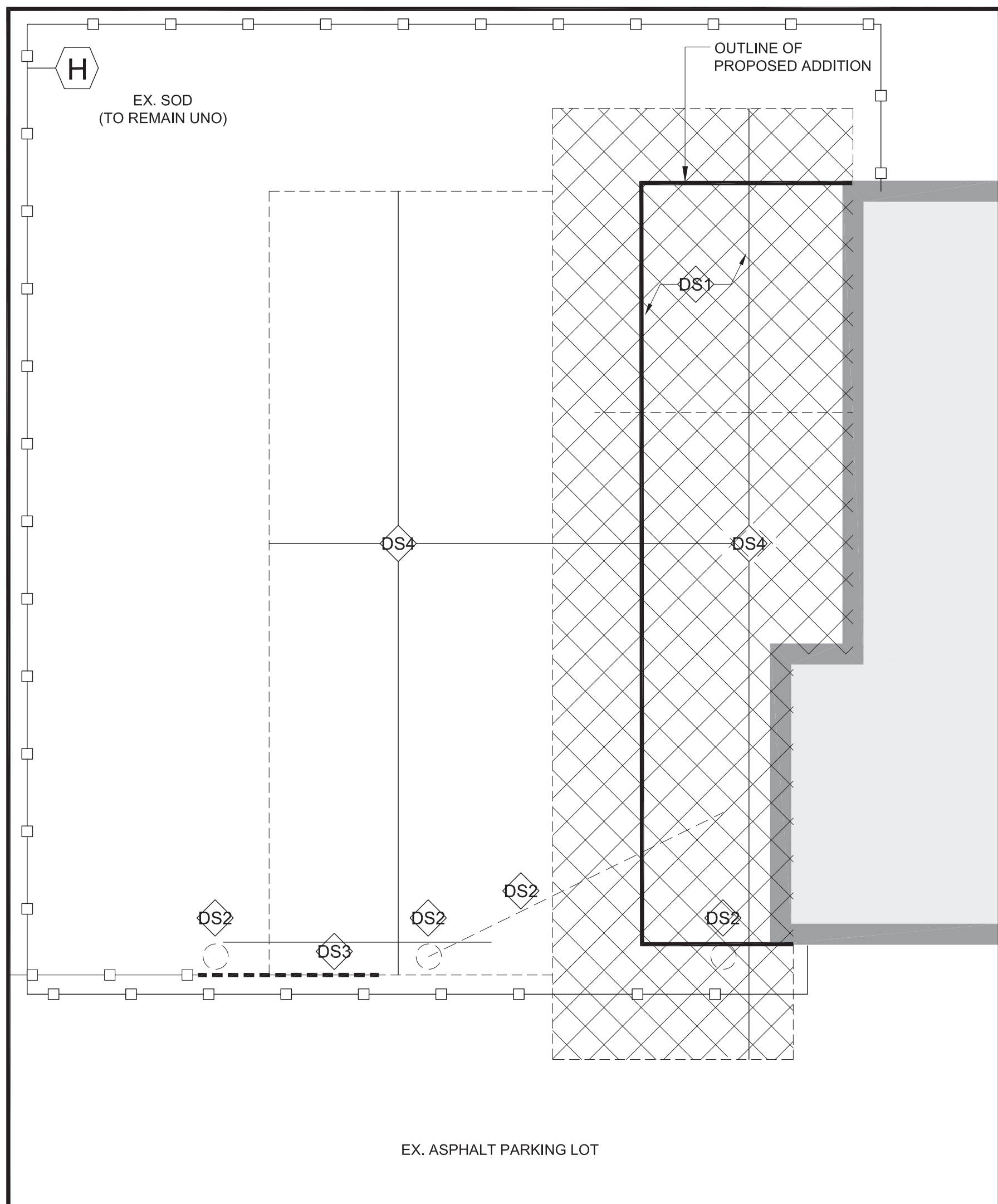
DEMOLITION SITE PLAN NOTES

- G.C. IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- ALL REMOVALS/DEMOLITIONS TO BE COORDINATED WITH STRUCTURAL, MECHANICAL, ELECTRICAL DRAWINGS PRIOR TO DEMOLITION START. FOR ADDITIONAL DEMOLITION, DOCUMENTS AND DETAILS SEE STRUCTURAL, MECH. AND ELECT. DWGS.
- GENERAL CONTRACTOR TO X-RAY ALL EXISTING CONCRETE FLOOR SLABS AND COMPLETE LOCATES WITHIN EXCAVATION/SITE RENOVATION WORKS AREA PRIOR TO DEMOLITION. IF EXISTING WIRES, CONDUIT, PIPING, SERVICES, ETC. CUT CONTRACTOR IS RESPONSIBLE TO RESTORE ALL. SEE SPEC.
- AREA OF WORK TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION. ALL OF CONSTRUCTION DUST, DEBRIS AND MATERIALS AS PER SPECIFICATION SECTION 017411.
- HATCH DENOTES APPROXIMATE EXTENTS OF REMOVALS FOR PROPOSED ADDITION. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT AND SUBBASE AS REQUIRED FOR INSTALLATION OF PROPOSED FOOTINGS, FOUNDATION WALL, ELEVATOR PIT, SUMP, STRUCTURE AND SLAB ON GRADE, ETC. FOR NEW ADDITION. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS ON SITE PRIOR TO DEMOLITION.
- CONTRACTOR TO REMOVE UPPER PORTION OF EXISTING GALVANIZED FIRE GATE (AT THREE LOCATIONS) AND STORE ON SITE FOR FUTURE INSTALLATION (UPON COMPLETION OF ADDITION). CONTRACTOR TO EXCAVATE AND REMOVE EXISTING LOWER COLUMN AND CONCRETE ENCASEMENT COMPLETELY (AT THREE LOCATIONS).
- CONTRACTOR TO REMOVE PORTION OF CHAIN LINK FENCE (BLACK) POST (CONCRETE FOOTING), HORIZONTAL AND MAIN POST WITH CAP FOR PROPOSED ADDITION. INSTALL NEW MAIN POST APPROX. 1200mm AWAY FROM PROPOSED ADDITION AND REWORK EXISTING CHAIN LINK FENCE. NEW POST TO BE SECURED IN CONCRETE SONO-TUBE FOOTING MIN. 1200mm DEEP.
- APPROXIMATE EXTENT OF REMOVALS OF EXISTING LANDSCAPE/SOD AREA FOR PROPOSED ASPHALT PLAY SURFACE AND SUBBASE.

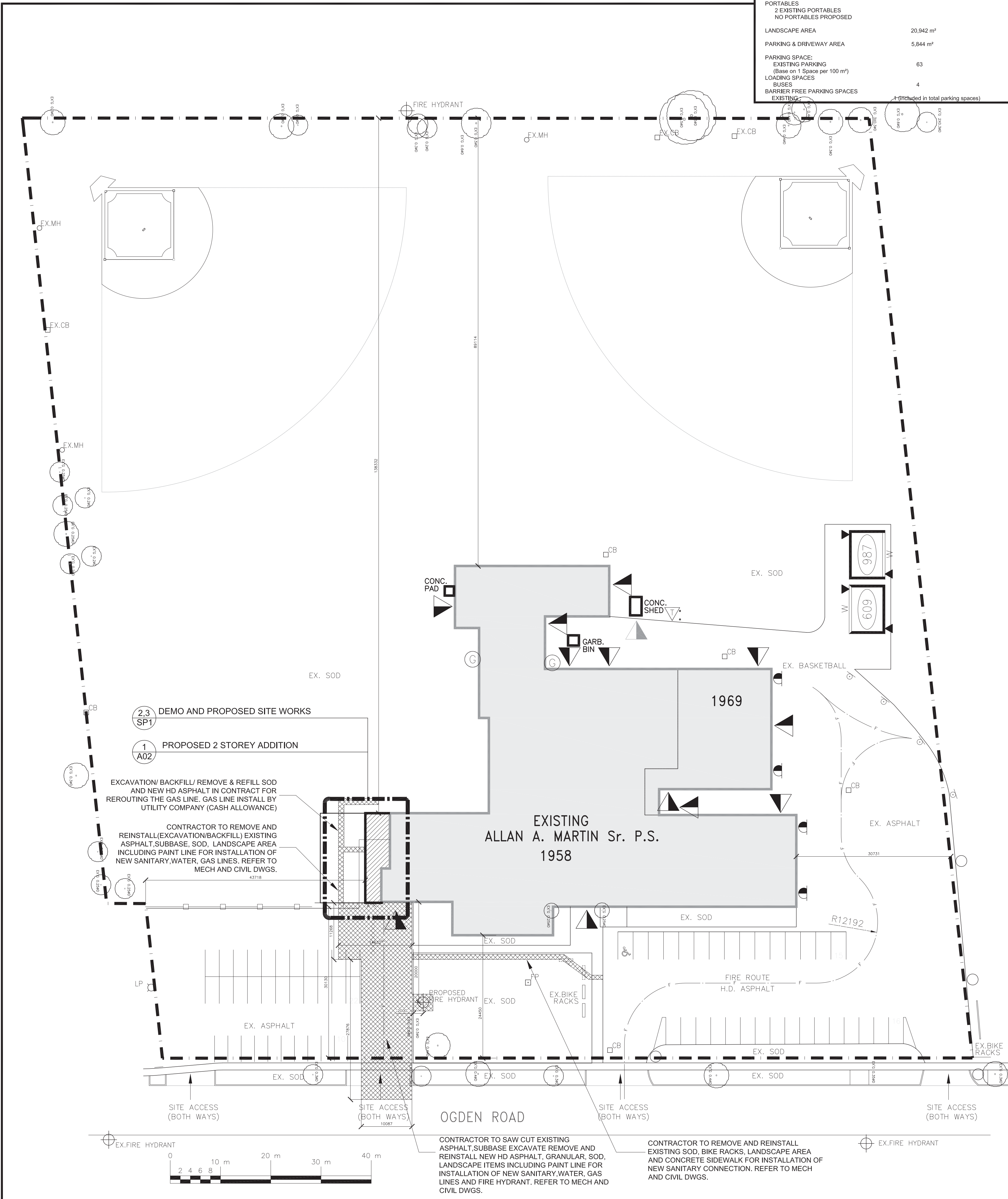
3 PARTIAL - PROPOSED SITE PLAN
SP1 SCALE 1:100



2 PARTIAL - DEMOLITION SITE PLAN
SP1 SCALE 1:100

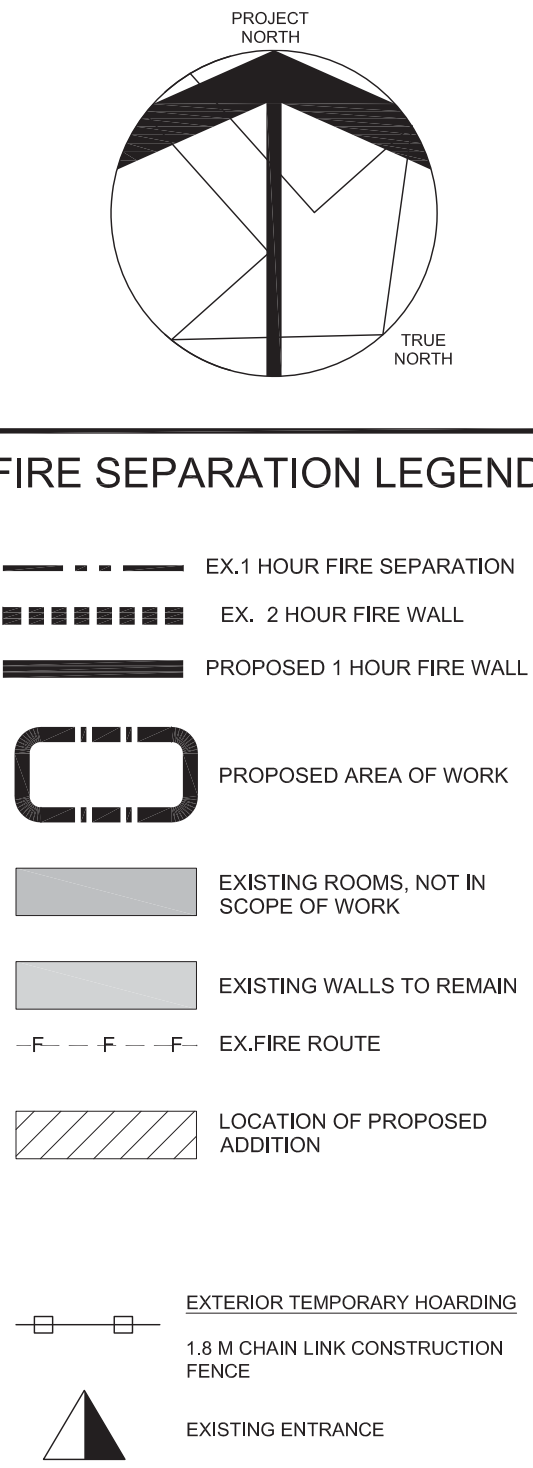


1 OVERALL SITE PLAN
SP1 SCALE NTS



SITE PLAN AND BUILDING STATISTICS

ZONING :	R3-75
LEGAL DESCRIPTION :	PART OF LOT 8 AND 9 REGISTERED PLAN E- 88 CITY OF MISSISSAUGA REGIONAL MUNICIPALITY OF PEEL
PROPOSED OCCUPANCY:	PUBLIC SCHOOL
MUNICIPAL ADDRESS:	1390 OGDEN AVENUE, MISSISSAUGA ON
COMMITTEE OF ADJUST.:	N/A
RELATED FILE NUMBERS:	N/A
LOT AREA	(31,325 m ²) 3.13 HECTARES
LOT COVERAGE	Permitted/Req'd
EX. ALLAN A. MARTIN PS ADDITION TO ALLAN A	3,510 m ² 74 m ²
TOTAL BUILDING AREA	10,964 m ² (35%)
PROPOSED NEW GROSS FLOOR AREA	130 m ²
GFA	ALLAN A. MARTIN
GROUND FLOOR	3,510 m ²
SECOND FLOOR	1,339 m ²
TOTAL	4,849 m ²
PORTABLES	2 EXISTING PORTABLES NO PORTABLES PROPOSED
LANDSCAPE AREA	20,942 m ²
PARKING & DRIVEWAY AREA	5,844 m ²
PARKING SPACE:	EXISTING PARKING (Base on 1 Space per 100 m ²)
LOADING SPACES	63
BUSES	4
BARRIER FREE PARKING SPACES	4 (included in total parking spaces)



03	ISSUED FOR TENDER	22-04-2025
02	ISSUED FOR BUILDING PERMIT	23-12-2024
01	ISSUED FOR SPA	11-5-2024
NO	ISSUED	DATE

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



ADDITION TO ALLAN A MARTIN PUBLIC SCHOOL

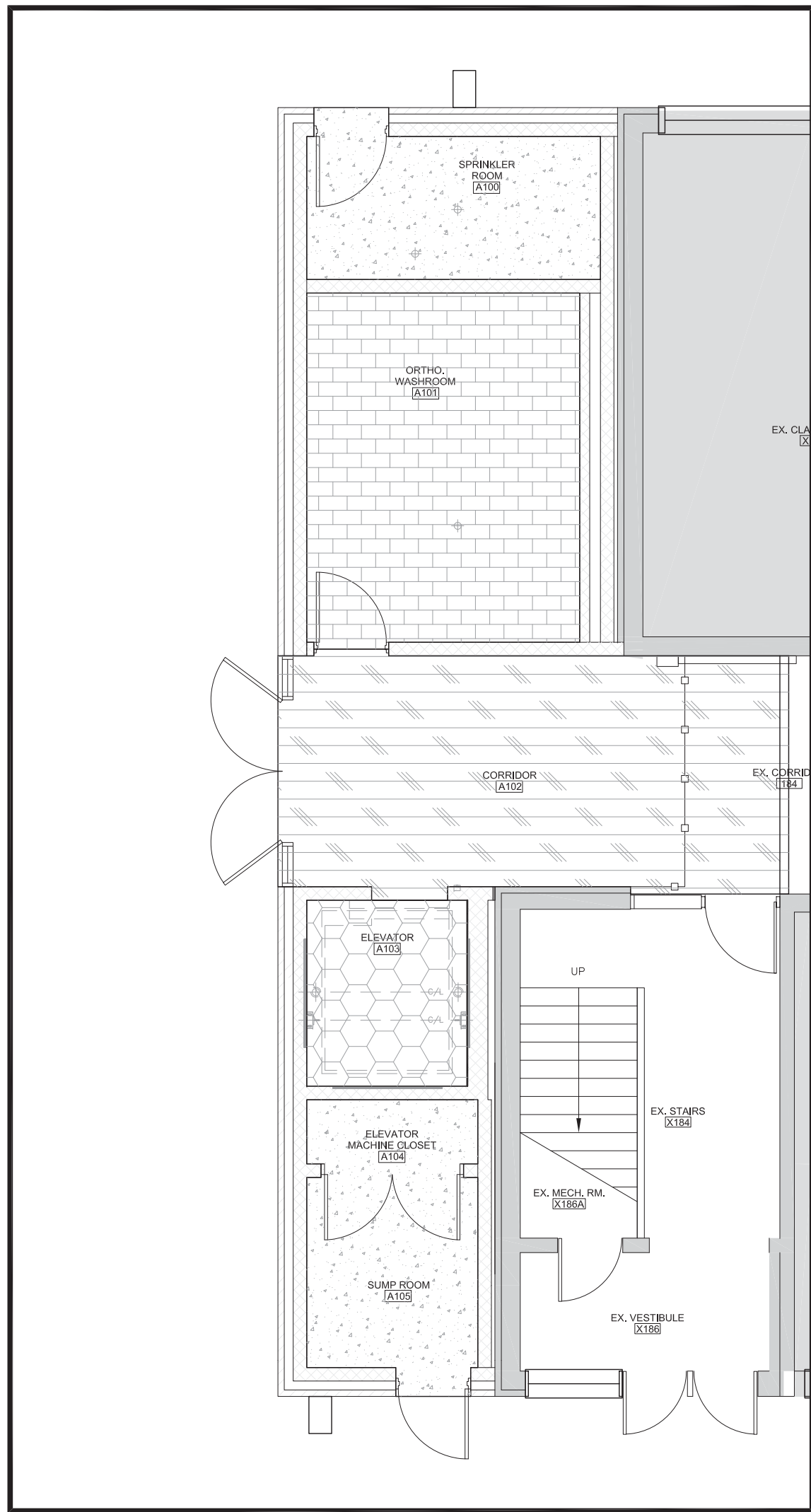
LEGAL DESCRIPTION
PART OF LOT 8 AND 9
REGISTERED PLAN E- 88
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEEL



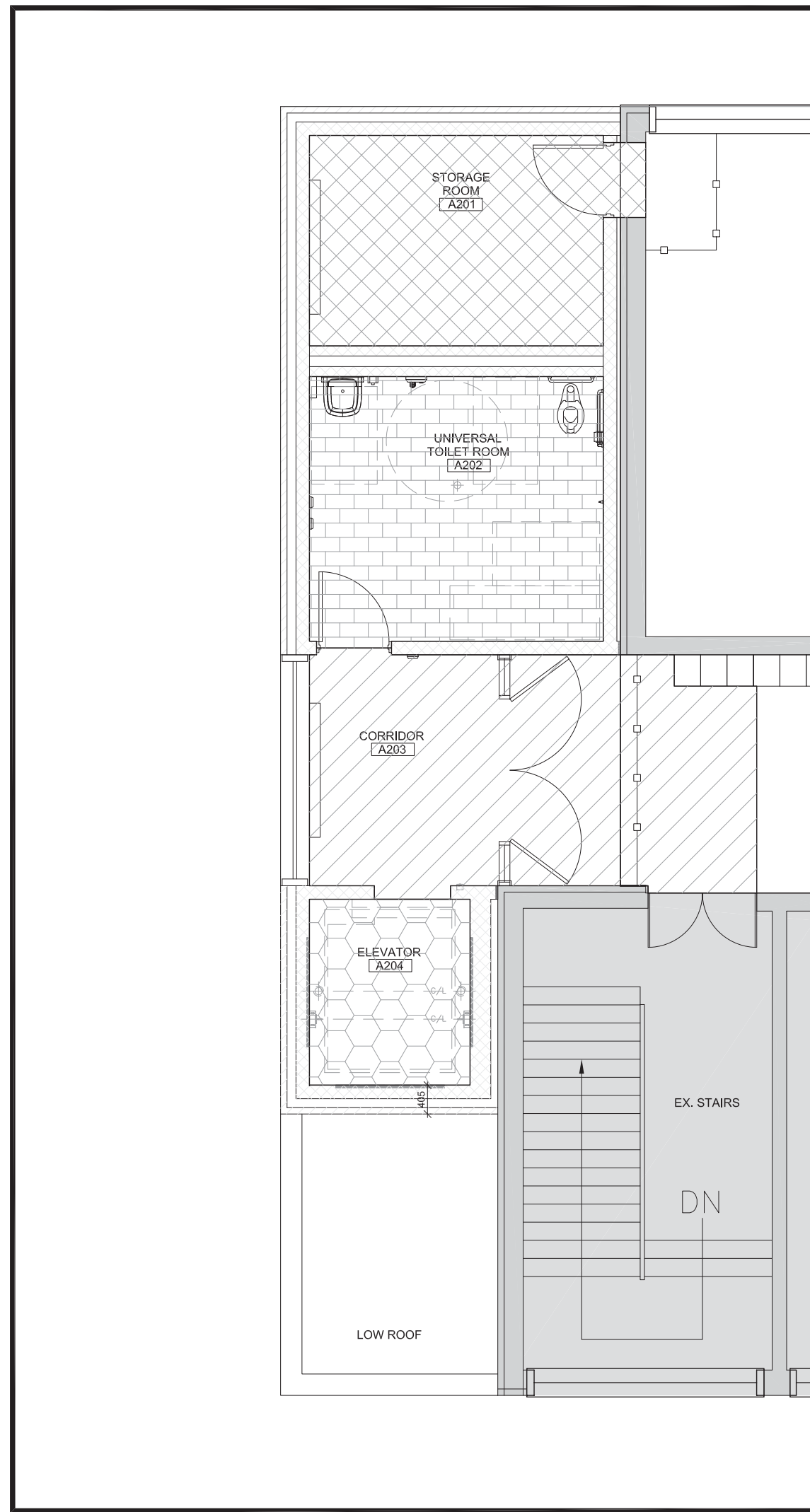
SITE PLAN AND BUILDING STATISTICS



SCALE	PROJECT
AS SHOWN	24126
DATE	APRIL 2025
DRAWN	CT
CHECKED	CT/ST
PRINT DATE	OCT 25, 2024
CAD FILE	T:2412602



3 PART. GROUND FLOOR- FLOOR PATTERN PLAN
A01 SCALE 1:50



4 PART. SECOND FLOOR- FLOOR PATTERN PLAN
A01 SCALE 1:50

MATERIAL LEGEND	
POR 1	PORCELAIN TILE 1
VCT 1	VINYL COMPOSITION TILE 1
VCT 2	VINYL COMPOSITION TILE 2
VCT 3	VINYL COMPOSITION TILE 3
EPWM	EPOXY FLOORING
TER	TERRAZZO FLOORING

OBC MATRIX PART 11

Item	Describe Existing Use: PUBLIC SCHOOL	OBC Ref.
11.1	Existing Building classification: 7 - Combustible & Non Combustible Construction Hazard Index: 6 - Large Building A2 occupancy Not applicable (no change of major occupancy)	11.2.1 11.1.2, 1.1A 11.2.1.1B 10.N
11.2	Alteration to Existing Building Is: Basic Renovation: ☒ PROPOSED RENOVATION TO EXISTING SCHOOL Extensive Renovation: ☐	11.3.3.1 11.3.3.2
11.3	Reduction in Performance Level: Structural: ☐ No ☐ Yes ☐ By increase in occupant load: ☐ No ☐ Yes ☐ Change of major occupancy: ☐ No ☐ Yes ☐ Plumbing: ☐ No ☐ Yes ☐ Sewage-system: ☐ No ☐ Yes ☐	11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
11.4	Compensating Construction: Structural: ☐ No ☐ Yes ☐ Increase in occupant load: ☐ No ☐ Yes ☐ Change of major occupancy: ☐ No ☐ Yes ☐ Plumbing: ☐ No ☐ Yes ☐ Sewage System: ☐ No ☐ Yes ☐	11.4.3 11.4.3.1 11.4.3.2 11.4.3.3 11.4.3.4 11.4.3.5 11.4.3.6
11.5	Compliance Alternatives Proposed: ☐ No (not required) ☐ Yes (give number/s)	11.5.1
11.6	Alternative Measures Proposed: ☐ No (explain)	11.5.2

CONSTRUCTION LEGEND			
LABEL	DESCRIPTION	REQ.FRR/SOURCE	NOTES
EXTERIOR WALL (W1)	TYPICAL EXTERIOR WALL: 190mm CONC. BLOCK SELF ADHERING CONTINUOUS AIR/VAPOUR BARRIER SHEET MEMBRANE 100mm RIGID INSULATION 25mm AIR SPACE 90mm BRICK VENEER		
EXTERIOR WALL (W2)	TYPICAL EXTERIOR WALL: 190 CONC. BLOCK SELF ADHERING CONTINUOUS AIR/VAPOUR BARRIER SHEET MEMBRANE 100mm RIGID INSULATION 25 AIR SPACE 2-GIRT SUPPORTS (VERT. & HORIZ.) PREFINISHED METAL SIDING		
INTERIOR WALLS AND PARTITIONS (W3)	CONCRETE BLOCK PARTITION - SINGLE WYTHE CONCRETE BLOCK PARTITION (SEE FLOOR PLAN FOR THICKNESS) - EXTEND TO UNDERSIDE OF DECK	SEE A01 FOR FIRE SEPARATN.	

TABLE A - FIRE RESISTANCE RATINGS FOR CONCRETE BLOCK PARTITIONS
(BASED ON SUPPLEMENT TO OBC 2006-TABLE 2.1.1)

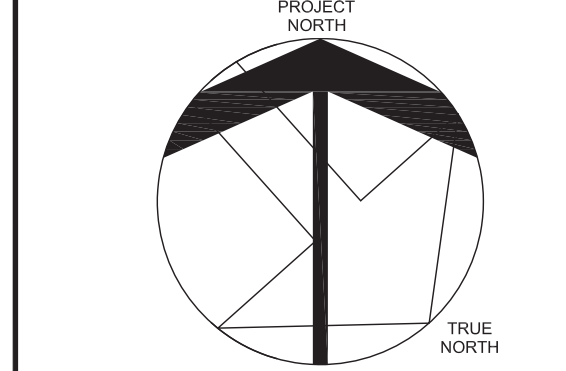
REQ. FIRE RESIST. RATING	REQ. EQ.T. (mm) N.W.C. L.W.C.	CONCRETE BLOCK OPTIONS	ACTUAL EQUIVALENT THICKNESS PROVIDED (mm)	REQ. FIRE RESIST. RATING	REQ. EQ.T. (mm) N.W.C. L.W.C.	CONCRETE BLOCK OPTIONS	ACTUAL EQUIVALENT THICKNESS PROVIDED (mm)
2 h	113 102	- 240mm, HOLLOW, NORMAL WIEGHT - 190mm, HOLLOW, LIGHT WIEGHT - 140mm, 75% SOLID, LIGHT WIEGHT	127 106 112	1 h	73 66	- 190mm, HOLLOW, NORMAL WIEGHT - 140mm, HOLLOW, NORMAL WIEGHT - 90mm, HOLLOW, LIGHT WIEGHT - 90mm, 75% SOLID, NORMAL WIEGHT	106 81 66 74

OBC MATRIX PART 3

ONTARIO BUILDING CODE DATA MATRIX		OBC Ref.
1	PROJECT DESCRIPTION: ASSEMBLY ☐ NEW ☒ ADDITION ☐ CHANGE OF USE ☐ ALTERATION ☐ PART 3 ☐ PART 11 RENOVATIONS	
2	MAJOR OCCUPANCY(IES): GROUP A DIVISION 2	
3	BUILDING AREA (SQ.M) EXISTING 3,510 NEW 74 TOTAL 3,584	
4	GROSS AREA (SQ.M) EXISTING 4,849 NEW 130 TOTAL 4,985	
5	No. OF STOREYS ABOVE GRADE 2 BELOW GRADE 0 EX. ABOVE GRADE 0	
6	NUMBER OF STREETS/ACCESS ROUTES 1	
7	BUILDING CLASSIFICATION EXISTING SCHOOL - CANNOT BE CLASSIFIED PROPOSED ADDITION 3.2.2.4 GROUP A DIVISION 2 UP TO 6 STOREYS, ANY AREA, SPRINKLERED	
8	SPRINKLER SYSTEM PROPOSED ☐ EXISTING SPRINKLER SYSTEM TO REMAIN ☐ BASEMENT ONLY ☐ IN LIEU OF ROOF RATING ☐ NEW ADDITION SPRINKLER SYSTEM	
9	STANDPIPE REQUIRED ☐ YES ☒ NO NOTE: EXISTING WILL REMAIN	
10	FIRE ALARM REQUIRED ☒ YES ☐ NO NOTE: FIRE ALARM SYSTEM WILL BE CONTINUOUS BETWEEN ORIGINAL AND PROPOSED RENOVATION	
11	WATER SERVICE/SUPPLY IS ADEQUATE ☒ YES ☐ NO	
12	HIGH BUILDING ☐ YES ☒ NO	
13	PERMITTED CONSTRUCTION ☐ COMBUSTIBLE ☐ NON COMBUSTIBLE ☒ BOTH ACTUAL CONSTRUCTION ☐ COMBUSTIBLE ☐ NON COMBUSTIBLE ☒ BOTH	
14	MEZZANINE(S) AREA (SQ.M)	
15	OCCUPANT LOAD BASED ON ☐ sq.m/PERSON ☒ DESIGN OF BUILDING 1ST FLR (lower level) OCCUPANCY A2 LOAD 0 PERSONS NO ADDITIONAL 2ND FLR (upper level) OCCUPANCY A2 LOAD 0 PERSONS OCCUPANCY LOAD	
16	BARRIER-FREE DESIGN ☒ YES ☐ NO	
17	HAZARDOUS SUBSTANCES ☐ YES ☒ NO	
18	REQUIRED FIRE RESISTANCE RATING (FRR)	
	FLOOR(S) 1 HOURS	83mm NORMAL DENSITY CONCRETE ON 76mm COMPOSITE METAL DECK w/ SPRAY FIREPROOFING ULC DESIGN F906 1HR FIRE RESISTANCE RATING
	ROOF N/A HOURS	N/A
	MEZZANINE N/A HOURS	N/A
	FRR OF SUPPORTING MEMBERS	LISTED DESIGN NO. ULC F906 OR DESCRIPTION (SG-2)
	FLOOR(S) 1 HOURS	83mm NORMAL DENSITY CONCRETE ON 76mm COMPOSITE METAL DECK w/ SPRAY FIREPROOFING ULC DESIGN F906 1HR FIRE RESISTANCE RATING
	ROOF 0 HOURS	N/A
	MEZZANINE N/A HOURS	N/A
19	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS	

ABBREVIATION LEGEND

A	ACTIVE LEAF
ACP	ALUMINUM COMPOSITE PANEL
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
BS	BRICK
BD	BOARD
BFP	BARRIER FREE
BFP	BARRIER FREE PUSH BUTTON
BFP	BARRIER FREE PUSH BUTTON ILLUMINATED
BH	BREAK-AWAY HOOK
BL	BARRIER FREE LOCKER
BV	BRICK VENT
CB	CHALKBOARD
CCP	CONCRETE COMPOSITE PANEL
CJ	CONTROL JOINT
CH	CABINET HEATER (RECESSED)
CHSR	CABINET HEATER (SEM-RECESSED)
CHT	CHANGING TABLE STATION REFER TO SPEC
CONC.	CONCRETE
CONT.	CONTINUOUS
CRS	COAT RACK AND SHELF
CONV	CONVENIENCE SHELF
CW	COMPLETE WITH
CWT	CERAMIC WALL TILE
DF	DRINKING FOUNTAIN
DN	DOWN
DR	DINING RACK, REFER TO ELECT. DWGS.
DWS.	DRAWINGS
DW	DISWASHER
EM	ELECTROMAGNETIC HOLD OPEN DEVICE
EP	ELECTRICAL PANEL, REF. ELEC. DWGS.
EPC	EMERGENCY PULL CORD
EQ.	EQUAL
EW	EYE WASH STATION
EX	EXISTING
FB	FIRE BLANKET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FD	FLOOR DRAIN
FRSB	FIRE RATED GYPSUM BOARD
FSS	FOLDING SHOWER SEAT
Ga	GALVE
GALV	GALVANIZED
GYP	GYPSUM BOARD
GB	GRAB BAR
GBL	GRAB BAR "L" SHAPE
GSF	GRAB BAR "FOLDING"
GM	GAS METER
HD	HAND DRYER
HDS	HAND DRYER WITH
HFS	HORIZONTAL FIRESTOP
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL STEEL
HW	HOT WATER TANK
JS	JANITORIAL SHELF
LF	LIGHT FIXTURE
M	MIRROR
ML	MIRROR LONG
MCP	MODULAR CONTROL PANEL
MR	METAL RACKING
MS	MOT SINK
MWC	MOTORIZED WINDOW COVERINGS
ND	NOT IN CONTRACT
NFHB	NON FREEZE HOSE BB, REF. DIV 15
PAS	PUBLIC ADDRESS SYSTEM (N/C)
PB	PROGRAM BELL
PTD	PAPER TOWEL DISPENSER
PTW	PAPER TOWEL - WASTE RECEPTACLE
RD	ROOF DRAIN
RF	REFRIGERATOR
RM	REMOVABLE HARDWARE MULLION
RWL	RAIN WATER LEADER
SD	SOAP DISPENSER
SFS	STRUCTURAL FROST SLAB
SN	SANITARY NAPKIN DISPOSAL
SND	SANITARY NAPKIN DISPENSER
SH-C	SHOWER ROD - CURTAIN
SWR	SEMI-RECESSED WASTE RECEPTACLE
TB	TACKBOARD
TD	TOILET PAPER DISPENSER
TP	TEMPERED GLASS (FIRE RATED)
TM	TILT MIRROR
VFS	VERTICAL FIRESTOP
WC	WHITEBOARD
WB	WINDOW COVERINGS REFER TO SPECS
WID	WASHER DRYER N/C
WM	WRENOLD
WR	WASHROOM



FIRE SEPARATION LEGEND

---	EX. 1 HOUR FIRE SEPARATION
---	EX. 2 HOUR FIRE WALL
---	PROPOSED 1 HOUR FIRE WALL
---	PROPOSED AREA OF WORK
---	EXISTING ROOMS, NOT IN SCOPE OF WORK
---	EXISTING WALLS TO REMAIN

---	INTERIOR TEMPORARY HOARDING
---	- 38 x89 mm WOOD FRAMING
---	- 6mm WHITE POLY VAPOUR BARRIER
---	- SEALED FROM FLOOR TO US OF CEILING
---	- 12mm PLYWOOD SHEATHING
---	- PAINTED WHITE ON SCHOOL SIDE

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ADDITION TO ALLAN A MARTIN PUBLIC SCHOOL

LEGAL DESCRIPTION
PART OF LOT 8 AND 9
REGISTERED PLAN E-88
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEEL

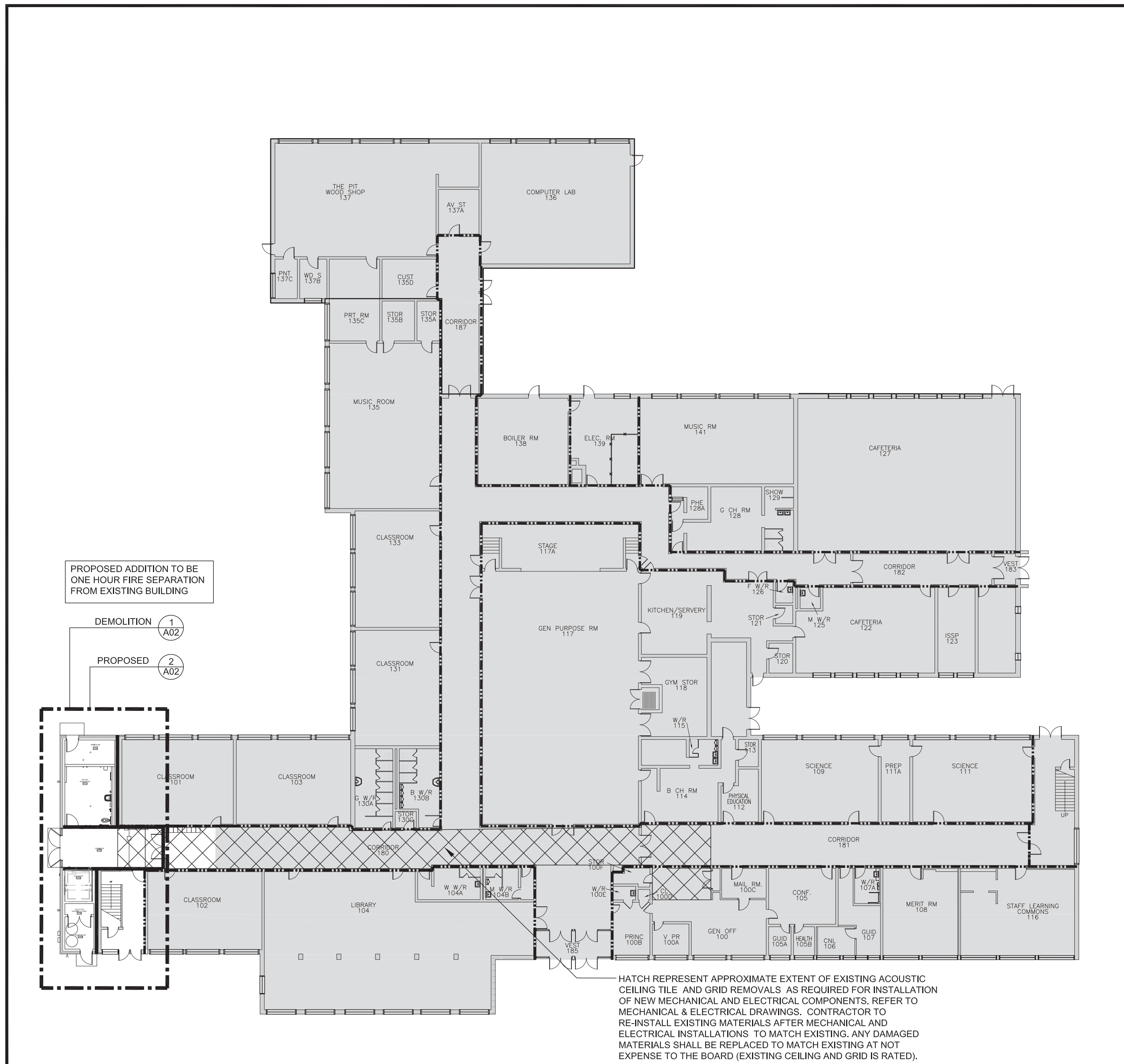
peel District School Board

KEY PLAN, SCHEDULES, FIRE SEPARATIONS, GENERAL NOTES AND OBC MATRIX

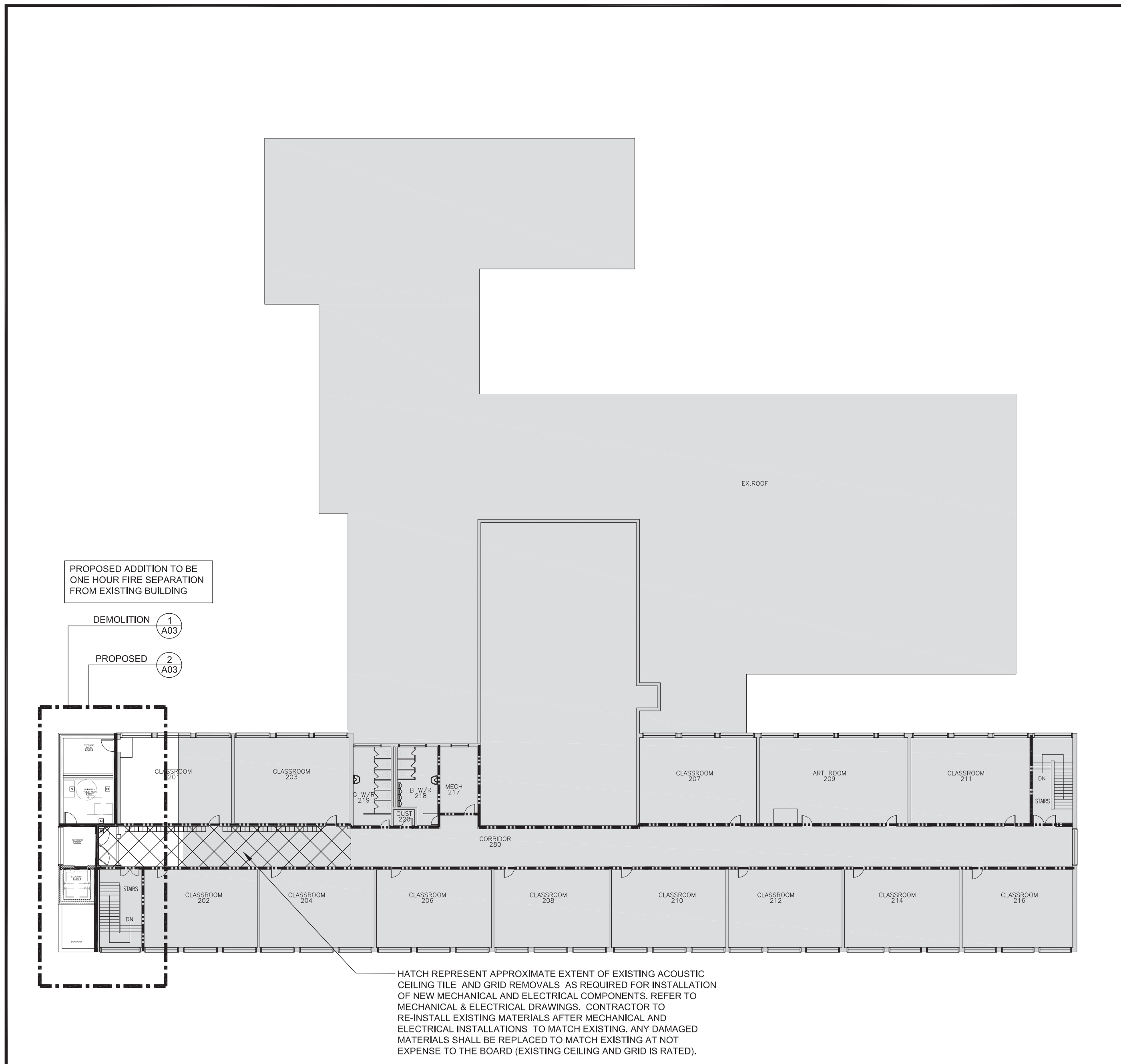
HOSSACK ARCHITECTURE

185 - 1839 IRONWOOD WAY
DARVILLE, ON L6H 5V6
(905) 875-5506 ext@hossackarch.com

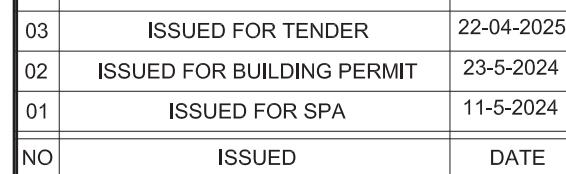
SCALE	PROJECT
DATE	AS SHOWN
OCT 25, 2024	24126
DRAWN	DRAWING
GY	A01
CHECKED	CT/ST
PRINT DATE	OCT 25, 2024
CAD FILE	T:2412602



1 OVERALL GROUND FLOOR KEY PLAN - FIRE SEPARATION
A01 SCALE 1:250



2 OVERALL SECOND FLOOR KEY PLAN - FIRE SEPARATION
A01 SCALE 1:250



ONTARIO ASSOCIATION
ARCHITECTS
STEVEN TERRA
LICENCE
7189

LEGAL DESCRIPTION



•peel District
School Board

HOSSACK
ARCHITECTURE

SCALE	PROJECT
AS SHOWN	24126
DATE	
OCT 25, 2024	
DRAWN	DRAWING
GY	A02
CHECKED	
CT/ST	
PRINT DATE	OCT 25, 2024
CAD FILE	T:24126/02

DEMOLITION PLAN NOTES

G.C. IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.

ALL REMOVALS/DEMOLITIONS TO BE COORDINATED WITH STRUCTURAL, MECHANICAL, ELECTRICAL DRAWINGS PRIOR TO DEMOLITION START. FOR ADDITIONAL DEMOLITION, DOCUMENTS AND DETAILS SEE STRUCTURAL, MECH. AND ELECT. DWGS.

CONTRACTOR TO REMOVE EXISTING WINDOW COVERINGS, HARDWARE, ETC. AND STORE FREE FROM DIRT AND DAMAGE AND RE-INSTALL AFTER CONSTRUCTION IS COMPLETE.

CONTRACTOR IS RESPONSIBLE TO REVIEW EXISTING STRUCTURAL STEEL AND COORDINATE ALL REQUIRED REINFORCEMENT FOR NEW MEDICAL FRAGILE TRACKLIFT. SEE SPEC.

EX. SMARTBOARD PROJECTORS, SPEAKERS, ETC. TO BE REMOVED BY OWNER PRIOR TO CONSTRUCTION.

AREA OF WORK TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION, ALL OF CONSTRUCTION DUST, DEBRIS AND MATERIALS AS PER SPECIFICATION SECTION 017411.

NOTE: ALL EXISTING CEILING HEIGHTS ARE +/- AND MAY VARY. FIELD VERIFY AS REQUIRED.

CAREFULLY REMOVE EXISTING ACOUSTIC CEILING TILE, WIRES, TRIM, HARDWARE, ETC. AS REQUIRED FOR NEW RENOVATION WORK. RE-INSTALL NEW ACOUSTICAL CEILING TILES AND GRID. PATCH AND MAKE GOOD AS REQUIRED FOR NEW CONSTRUCTION. SEE MECH/ELECT. AND STRUCT. DWGS. IF NEW TILES, GRID, ETC. ARE REQUIRED, CONTRACTOR TO ENSURE NEW MATERIALS MATCH EXISTING.

REMOVE EXISTING LIGHTING, HARDWARE, CONDUIT, ETC. AS REQUIRED AND RE-INSTALL AS PER ELECT. DWGS. PATCH AND MAKE GOOD AS REQUIRED FOR NEW CONSTRUCTION. INSTALL UNISTRUT BETWEEN EX. OWS/S AS REQUIRED TO INSTALL NEW LIGHTING/ RELOCATED LIGHTING. SEE MECH/ ELECT. DWGS. TYP.

REMOVE EXISTING DIFFUSERS, HARDWARE, ETC. AS REQUIRED. PATCH AND MAKE GOOD AS REQUIRED FOR NEW CONSTRUCTION. INSTALL UNISTRUT BETWEEN EX. OWS/S AS REQUIRED TO INSTALL NEW HVAC. SEE MECH/ ELECT. DWGS. TYP.

PATCH AND MAKE GOOD EXISTING ROOF SLAB FOR NEW PAINT FINISH. REFER TO ROOM FINISH SCHEDULE.

CONSTRUCTION NOTES

G.C. IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.

CONTRACTOR TO REMOVE EXISTING WINDOW COVERINGS, HARDWARE, ETC. AND STORE FREE FROM DIRT AND DAMAGE AND RE-INSTALL AFTER CONSTRUCTION IS COMPLETE.

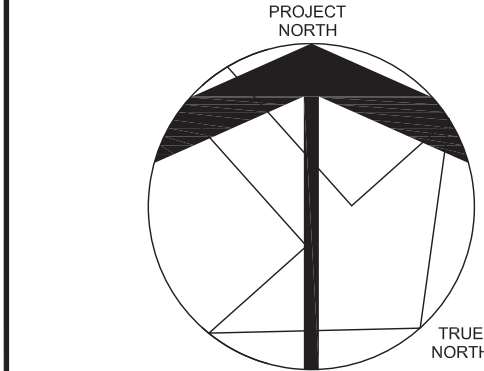
CONTRACTOR TO PREPARE AND PAINT ALL EXISTING AND NEW WALLS IN CONSTRUCTION AREA (INCLUDING AREAS IN EXISTING CORRIDORS). REFER TO SPECIFICATION AND SCHEDULES.

STUFF DECK FLUTES AND ANY TOP OF WALL PENETRATIONS WITH ROXUL AND CAULKING AS REQUIRED TO MAINTAIN EXISTING SMOKE-TIGHT JOINTS FOR EXISTING 0 HOUR FIRE SEPARATION AT CORRIDOR WALLS. REFER TO A01 FIRE SEPARATIONS AND SPECIFICATIONS.

AREA OF WORK TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION, ALL OF CONSTRUCTION DUST, DEBRIS AND MATERIALS AS PER SPECIFICATION SECTION 017411.

EXISTING CORRIDOR CEILING HEIGHTS ARE TO BE INSTALLED TO MATCH EXISTING HEIGHT SEAMLESSLY. CONTRACTOR TO FIELD VERIFY AS REQUIRED.

- RE-INSTALL/ADJUST EXISTING ACOUSTIC CEILING GRID, TILES, PERIMETER TRIM, HANGERS, ETC. AS REQUIRED FOR NEW RENOVATION. FIELD VERIFY AS REQD PRIOR TO CONSTRUCTION. IF NEW TILES, GRID, ETC. ARE REQUIRED, CONTRACTOR TO ENSURE NEW MATERIALS MATCH EXISTING.
- CONTRACTOR TO INSTALL NEW LIGHTING FIXTURES, HARDWARE, HANGERS, WIRING ETC. AS REQUIRED FOR INSTALLATION. REFER ELEC. DWGS.
- CONTRACTOR TO INSTALL NEW 400mm x 400mm ACCESS PANEL IN CEILING SPACE.
- NEW ACOUSTIC CEILING TILES, WIRES, TRACKS, HARDWARE, ETC. SEE MECH/ ELECT. DWGS. TYP. NEW TILES AND GRID TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY AS REQUIRED.
- 30mm METAL STUDS @ 16" O/C WITH 12mm MOLD & MILDEW RESISTANT GYPSUM PAINT FINISH. REFER TO MECH/ELEC. DWGS. FOR ROUGHENS AND DEVICE LOCATIONS.
- CONTRACTOR TO REINSTALL EXISTING LIGHTING FIXTURES, HARDWARE, HANGERS, WIRING ETC. AS REQUIRED FOR INSTALLATION. REFER ELEC. DWGS.
- CONTRACTOR TO INSTALL NEW CEILING MOUNTED EXHAUST FAN. REFER TO MECH/ELEC. DWGS.
- CONTRACTOR TO INSTALL NEW GRILLE FOR RETURN. REFER TO MECH/ELEC. DWGS.
- CONTRACTOR TO PAINT FINISH EXISTING AND NEW ROOF SLAB, STRUCTURAL BEAMS ETC. TO MATCH EXISTING. REFER TO ROOM FINISH SCHEDULE.



RCP LEGEND

- PROPOSED LIFT MED. FRAGILE TRACKLIFT SYSTEM. SEE SPEC.
- LIGHT FIXTURE REFER TO LIGHTING PLANS/ LIGHTING SCHEDULES FOR TYPE
- FLUSH MOUNTED FLUORESCENT LIGHT FIXTURE - TYPE 1 SEE ELECT. DWGS
- NEW ACOUSTIC CEILING PANELS WITH TRIM, TEES, HANGERS, ETC.
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- EXHAUST GRILL
- RP RADIANT PANEL
- GYPSUM BOARD CEILING TO BE PAINTED, COLOUR TO BE DETERMINED. SEE SPEC.
- LIGHT FIXTURE, FOR TYPE AND MOUNTING SEE ELECT. DWGS
- CEILING HEIGHT FROM FIN. FLOOR
- SPRINKLER. SEE MECH. DWGS.
- BV BRICK VENTS
- LF NEW LIGHT FIXTURE. PATCH AND MAKE GOOD WALL AS REQD. SEE ELECT. DWGS
- GB GYPSUM BOARD
- AREA OF EX. CEILING TO REMAIN. UNLESS NOTED OTHERWISE

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ADDITION TO ALLAN A MARTIN PUBLIC SCHOOL

LEGAL DESCRIPTION
PART OF LOT 8 AND 9
REGISTERED PLAN E-88
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEE



PART GROUND FLOOR DEMOLITION REFLECTIVE CEILING FLOOR PLAN AND PROPOSED REFLECTIVE CEILING FLOOR PLAN



SCALE	PROJECT
AS SHOWN	24126
DATE	OCT 25, 2024
DRAWN	GY
CHECKED	CT/ST
PRINT DATE	OCT 25, 2024
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1 PARTIAL GROUND FLOOR - DEMOLITION REFLECTIVE CEILING PLAN
A03 SCALE 1:50

2 PARTIAL GROUND FLOOR - PROPOSED REFELECTIVE CEILING PLAN
A03 SCALE 1:50

ROOF DEMOLITION AND CONSTRUCTION NOTES

G.C. IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.

CONTRACTOR TO REMOVE EXISTING WINDOW COVERINGS, HARDWARE, ETC. AND STORE FREE FROM DIRT AND DAMAGE AND RE-INSTALL AFTER CONSTRUCTION IS COMPLETE.

CONTRACTOR TO PATCH ALL EXISTING HOLES IN EXISTING BLOCK, PREPARE AND PAINT ALL EXISTING AND NEW WALLS IN CONSTRUCTION AREA (INCLUDING AREAS IN EXISTING CORRIDORS AS NOTED ON FLOOR PLAN). REFER TO SPECIFICATION AND SCHEDULES.

CONTRACTOR TO PAINT ALL EXISTING DOORS, FRAMES, ETC. USED FOR CONSTRUCTION ACCESS TO MATCH EXISTING PRIOR TO PROJECT COMPLETION.

STUFF DECK FLUTES AND ANY TOP OF WALL PENETRATIONS WITH ROXUL AND CAULKING AS REQUIRED TO MAINTAIN EXISTING SMOKE-TIGHT JOINTS FOR EXISTING 0 HOUR FIRE SEPARATION AT CORRIDOR WALLS. REFER TO A01 FIRE SEPARATIONS AND SPECIFICATIONS.

AREA OF WORK TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION. ALL OF CONSTRUCTION DUST, DEBRIS AND MATERIALS AS PER SPECIFICATION SECTION 017411.

- (R1) APPROXIMATE EXTENSION OF REMOVAL AND REPLACEMENT OF ROOF ASSEMBLY COMPLETE WITH TIE INTO EXISTING ROOF MEMBRANE, INSULATION AND VAPOUR BARRIER WITH NEW ADDITION. REFER TO DETAILS AND SPECIFICATIONS.
- (R2) PROPOSED ADDITION ROOF ASSEMBLY. REFER TO SPECIFICATIONS FOR TYPE.
- (R3) ROOF SUMP. REFER TO ARCHITECTURAL AD DETAILS. REFER TO MECHANICAL DRAWINGS FOR ROOF DRAIN
- (R4) ROOF SCUPPER. REFER TO ARCHITECTURAL AD DETAILS.

DEMOLITION PLAN NOTES

G.C. IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.

ALL REMOVALS/DEMOLITIONS TO BE COORDINATED WITH STRUCTURAL, MECHANICAL, ELECTRICAL DRAWINGS PRIOR TO DEMOLITION START. FOR ADDITIONAL DEMOLITION, DOCUMENTS AND DETAILS SEE STRUCTURAL, MECH. AND ELECT. DWGS.

GENERAL CONTRACTOR TO X-RAY ALL EXISTING CONCRETE FLOOR SLABS AS REQUIRED PRIOR TO DEMOLITION. IF EXISTING WIRES, CONDUIT, ETC. CUT DURING SLAB DEMOLITION, CONTRACTOR IS RESPONSIBLE TO RESTORE ALL EXISTING ITEMS PRIOR TO DEMOLITION. SEE SPEC.

CONTRACTOR TO REMOVE EXISTING WINDOW COVERINGS, HARDWARE, ETC. AND STORE FREE FROM DIRT AND DAMAGE AND RE-INSTALL AFTER CONSTRUCTION IS COMPLETE.

CONTRACTOR TO PREPARE AND PAINT ALL EXISTING AND NEW WALLS IN CONSTRUCTION AREA (INCLUDING AREAS IN EXISTING CORRIDORS AFFECTED BY RENOVATION). REFER TO SPECIFICATION AND SCHEDULES.

CONTRACTOR TO COORDINATE DEMOLITION OF ALL RACEWAY/CONDUIT/ETC. WITH ELECTRICAL DRAWINGS. PATCH AND MAKE GOOD ALL WALLS AS REQUIRED FOR NEW FINISHES.

AREA OF WORK TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION. ALL OF CONSTRUCTION DUST, DEBRIS AND MATERIALS AS PER SPECIFICATION SECTION 017411.

- (D1) SAWCUT AND REMOVE EXISTING CONCRETE BLOCK CHASE WALL AND EXTERIOR WALL FOR PROPOSED ADDITION. PATCH AND MAKE GOOD EXISTING BLOCK TO REMAIN IN CORRIDOR. REFER TO STRUCTURAL DWGS.
- (D2) REMOVE EXISTING ALUMINUM WINDOW ASSEMBLY, INCLUDING GLAZING, ALUMINUM SILLS, FLASHING ETC. FOR PROPOSED ADDITION. COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO DEMOLITION.
- (D3) SAWCUT AND REMOVE EXISTING POURED IN PLACE CONCRETE MASS LINTEL. REFER TO STRUCTURAL DRAWINGS FOR ANY SHORING REQUIREMENTS AND SEQUENCE/EXTENT OF WORK (2 DIFFERENT LOCATIONS).
- (D4) REMOVE EXISTING PREFINISHED METAL SIDING, INCLUDING FLASHING, DRIPS, GIRTS, ETC. FOR PROPOSED ADDITION. COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO DEMOLITION.
- (D5) DRAIN/DISCONNECT AND REMOVE EXISTING RADIATION SYSTEM. PATCH AND MAKE GOOD EXISTING CONCRETE BLOCK WALLS TO REMAIN IN PROPOSED RENOVATION/ADDITION. REFER TO MECH. DWGS.
- (D6) DISCONNECT/REMOVE EXISTING EXTERIOR ELECTRICAL DEVICE FOR NEW ADDITION. REFER TO ELEC. DRAWINGS
- (D7) REMOVE EXISTING PREFINISHED METAL ROOF CAP FLASHING, WOOD BLOCKING, ROOF MEMBRANE, ETC. FOR PROPOSED ADDITION. COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO DEMOLITION.
- (D8) SAWCUT AND REMOVE EXISTING EXTERIOR WALL (BRICK, INSULATION, VAPOUR BARRIER AND CONCRETE BLOCK WALL) FOR PROPOSED ADDITION/NEW DOOR. PATCH AND MAKE GOOD EXISTING BLOCK TO REMAIN IN CORRIDOR. REFER TO STRUCTURAL DWGS.

CONSTRUCTION NOTES

G.C. IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.

CONTRACTOR TO REMOVE EXISTING WINDOW COVERINGS, HARDWARE, ETC. AND STORE FREE FROM DIRT AND DAMAGE AND RE-INSTALL AFTER CONSTRUCTION IS COMPLETE.

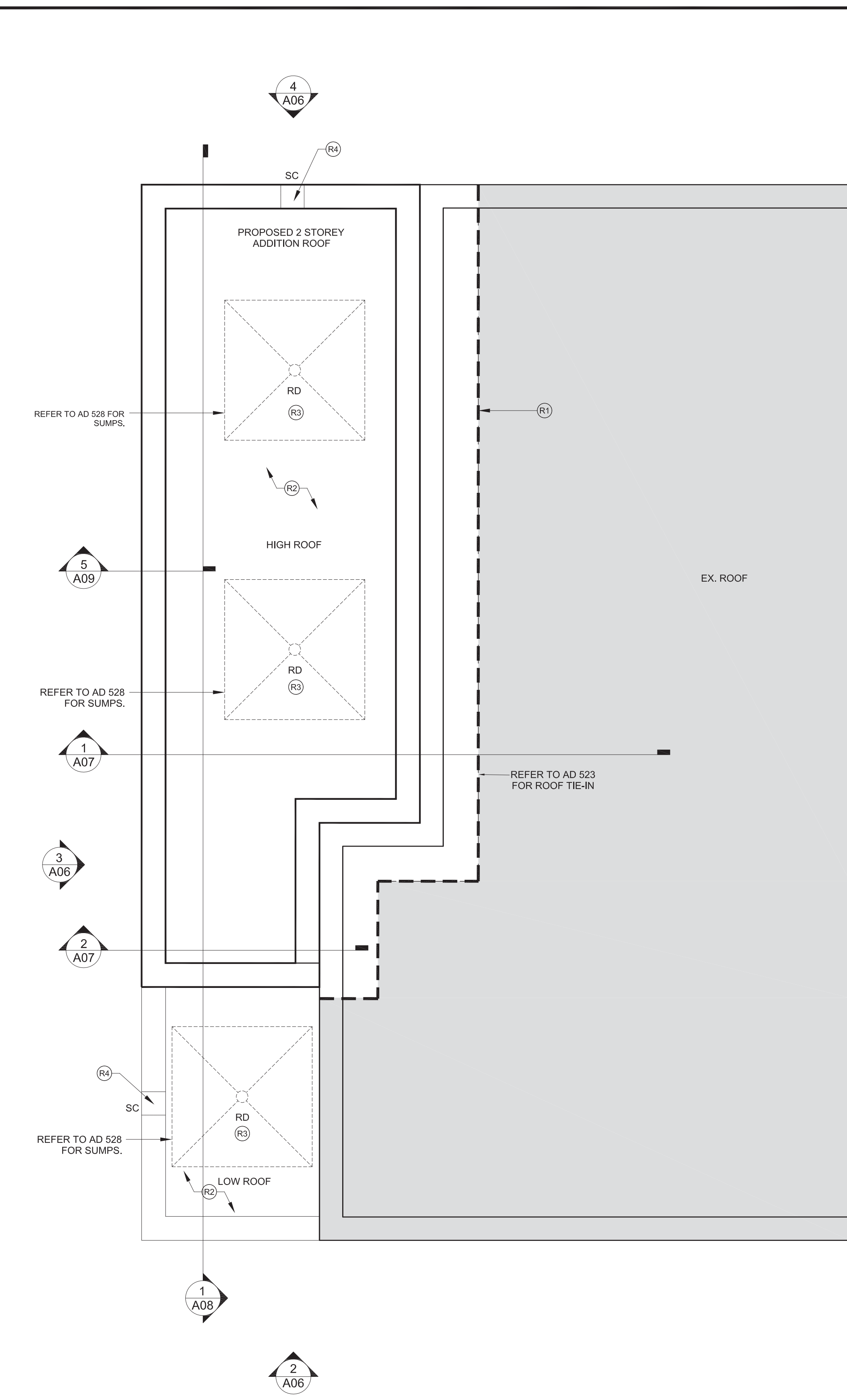
CONTRACTOR TO PATCH ALL EXISTING HOLES IN EXISTING BLOCK, PREPARE AND PAINT ALL EXISTING AND NEW WALLS IN CONSTRUCTION AREA (INCLUDING AREAS IN EXISTING CORRIDORS AS NOTED ON FLOOR PLAN). REFER TO SPECIFICATION AND SCHEDULES.

CONTRACTOR TO PAINT ALL EXISTING DOORS, FRAMES, ETC. USED FOR CONSTRUCTION ACCESS TO MATCH EXISTING PRIOR TO PROJECT COMPLETION. REFER TO DOOR SCHEDULE.

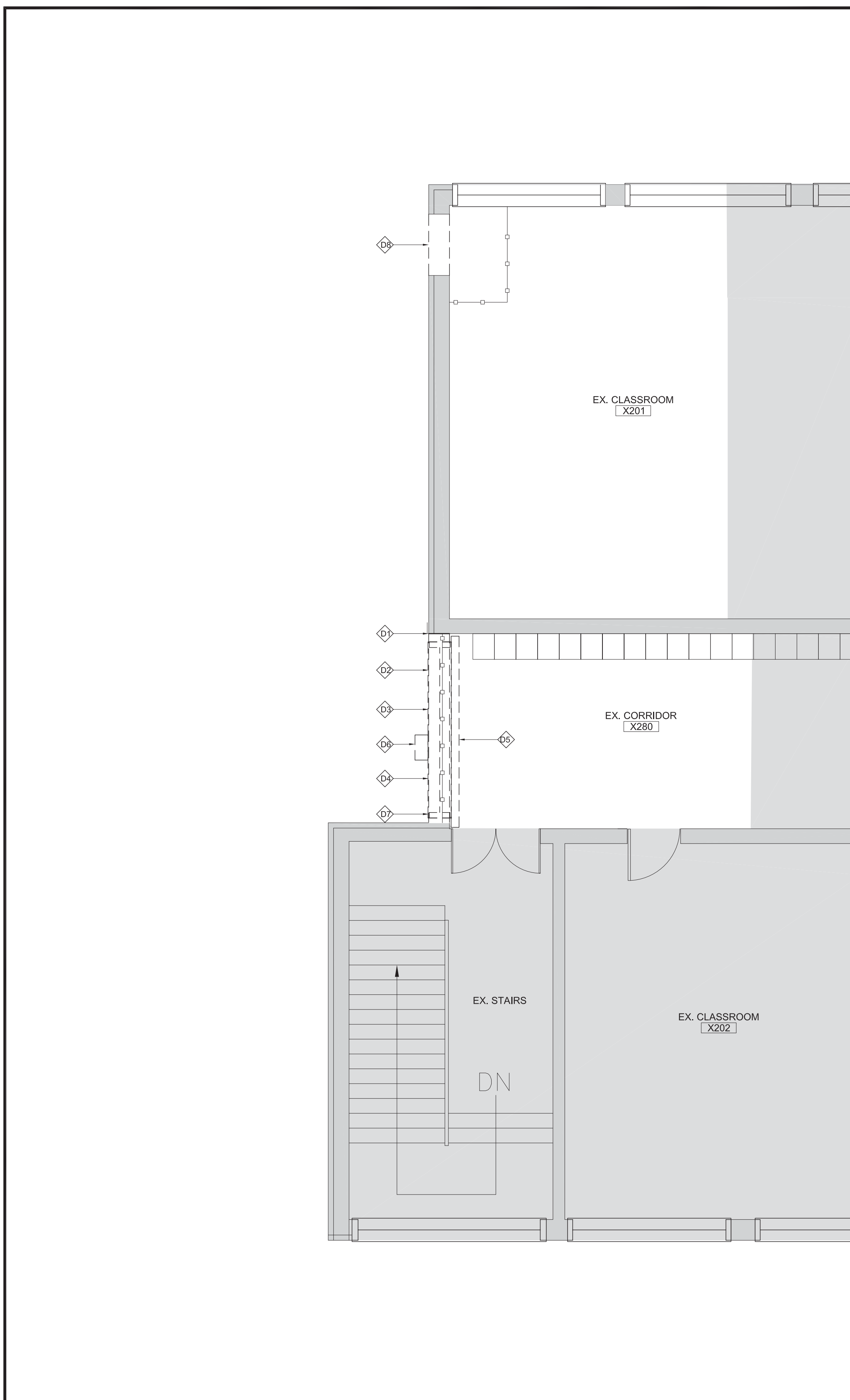
STUFF DECK FLUTES AND ANY TOP OF WALL PENETRATIONS WITH ROXUL AND CAULKING AS REQUIRED TO MAINTAIN EXISTING SMOKE-TIGHT JOINTS FOR EXISTING 1 HOUR FIRE SEPARATION AT CORRIDOR WALLS. REFER TO A01 FIRE SEPARATIONS AND SPECIFICATIONS.

AREA OF WORK TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION. ALL OF CONSTRUCTION DUST, DEBRIS AND MATERIALS AS PER SPECIFICATION SECTION 017411.

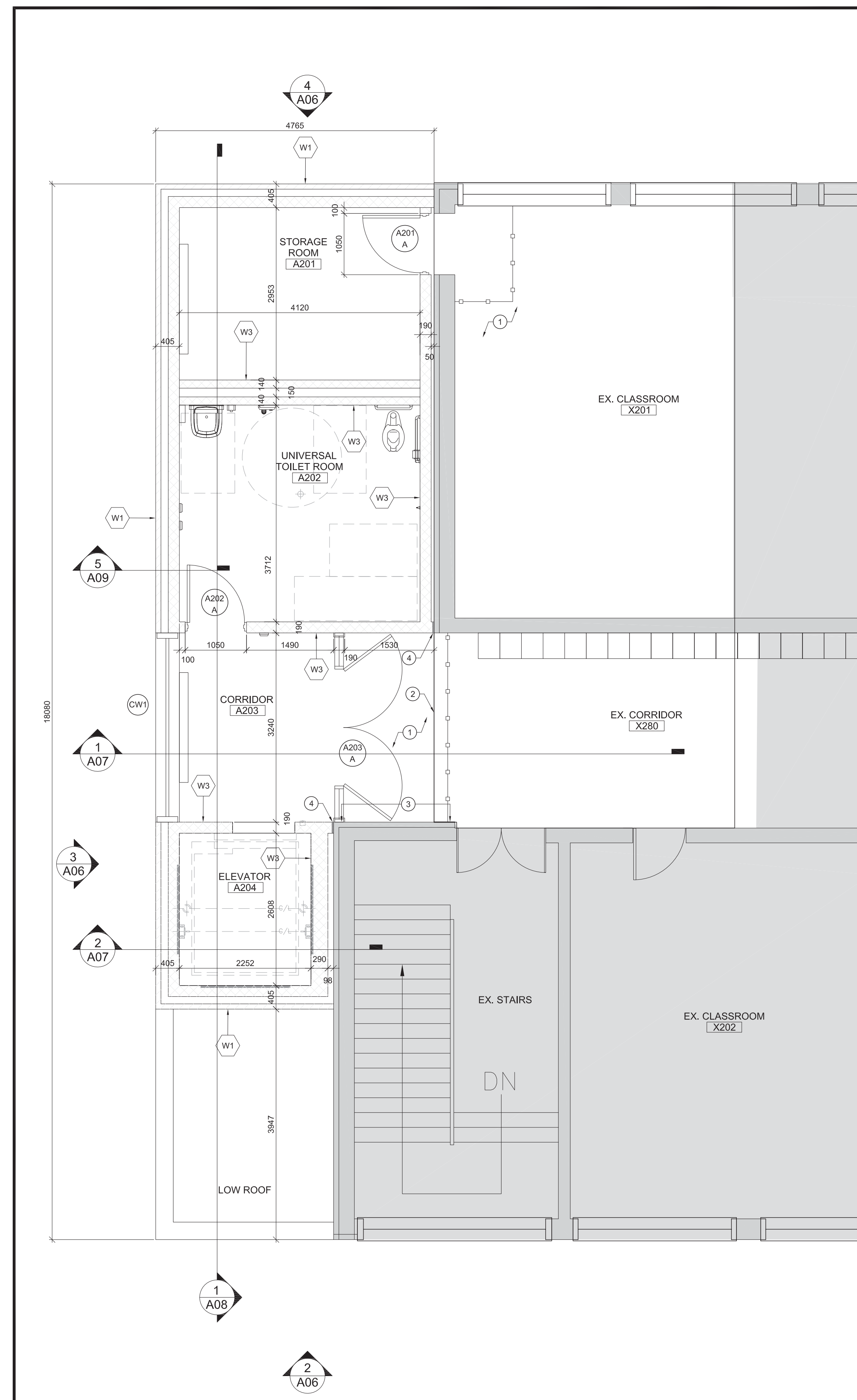
- (1) PATCH AND MAKE GOOD EXISTING CONCRETE BLOCK AND GYPSUM. AS REQUIRED. NEW PAINT FINISH
- (2) CONTRACTOR TO ENSURE NEW FLOOR FINISH IS FLUSH WITH EXISTING VCT FLOORING WITHOUT ANY THRESHOLDS.
- (3) CONTRACTOR TO PAINT EXISTING BRICK WALL (ALL EXPOSED AREA) TO MATCH NEW PAINT FINISH.
- (4) CONTRACTOR TO PROVIDE EXPANSION JOINT BETWEEN EXISTING AND PROPOSED WALL, FLOOR AND ROOF.



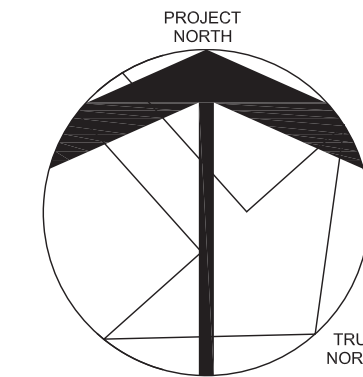
1 PROPOSED PARTIAL ROOF PLAN
SCALE 1:50



2 PARTIAL SECOND FLOOR - DEMOLITION PLAN
SCALE 1:50



3 PARTIAL SECOND FLOOR - PROPOSED FLOOR PLAN
SCALE 1:50



FIRE SEPARATION LEGEND

- EX. 1 HOUR FIRE SEPARATION
- 2 HOUR FIRE WALL
- TRAVEL DISTANCE
- PROPOSED AREA OF WORK
- EXISTING ROOMS, NOT IN SCOPE OF WORK
- EXISTING WALLS TO REMAIN
- TEMPORARY DUST PROTECTION HOARDING (P-10)

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REGIONAL MUNICIPALITY OF PEEI



PART SECOND FLOOR DEMOLITION FLOOR PLAN, PROPOSED FLOOR PLAN AND ROOF PLAN



105 - 1039 IRONDALE WAY
DARVILLE, ON L6H 3V8
(905) 815-5504 ext@hossackarch.com

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DEMOLITION PLAN NOTES

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ALL REMOVALS/DEMOLITIONS TO BE COORDINATED WITH STRUCTURAL, MECHANICAL, ELECTRICAL DRAWINGS PRIOR TO DEMOLITION START. FOR ADDITIONAL DEMOLITION, DOCUMENTS AND DETAILS SEE STRUCTURAL, MECH. AND ELEC. DWGS.

CONTRACTOR TO REMOVE EXISTING WINDOW COVERINGS, HARDWARE, ETC. AND STORE FREE FROM DIRT AND DAMAGE AND RE-INSTALL AFTER CONSTRUCTION IS COMPLETE.

CONTRACTOR IS RESPONSIBLE TO REVIEW EXISTING STRUCTURAL STEEL AND COORDINATE ALL REQUIRED REINFORCEMENT FOR NEW MEDICAL FRAGILE TRACKLIFT, SEE SPEC.

EX. SMARTBOARD PROJECTORS, SPEAKERS, ETC. TO BE REMOVED BY OWNER PRIOR TO CONSTRUCTION. AREA OF WORK TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION. ALL OF CONSTRUCTION DUST, DEBRIS AND MATERIALS AS PER SPECIFICATION SECTION 017411.

NOTE: ALL EXISTING CEILING HEIGHTS ARE 4'-0" AND MAY VARY. FIELD VERIFY AS REQUIRED.

CAREFULLY REMOVE EXISTING ACOUSTIC CEILING TILE, WIRES, TRIM, HARDWARE, ETC. AS REQUIRED FOR NEW RENOVATION WORK. RE-INSTALL NEW ACOUSTICAL CEILING TILES AND GRID. PATCH AND MAKE GOOD AS REQUIRED FOR NEW CONSTRUCTION. SEE MECH/ELECT. AND STRUCT. DWGS. IF NEW TILES, GRID, ETC. ARE REQUIRED. CONTRACTOR TO ENSURE NEW MATERIALS MATCH EXISTING.

REMOVE EXISTING LIGHTING, HARDWARE, CONDUIT, ETC. AS REQUIRED AND RE-INSTALL AS PER ELEC. DWGS. PATCH AND MAKE GOOD AS REQUIRED FOR NEW CONSTRUCTION. INSTALL UNISTRUT BETWEEN EX. OWS/S/S AS REQUIRED TO INSTALL NEW LIGHTING/ RELOCATED LIGHTING. SEE MECH/ELECT. DWGS. TYP.

REMOVE EXISTING DIFFUSERS, HARDWARE, ETC. AS REQUIRED. PATCH AND MAKE GOOD AS REQUIRED FOR NEW CONSTRUCTION. INSTALL UNISTRUT BETWEEN EX. OWS/S/S AS REQUIRED TO INSTALL NEW HVAC. SEE MECH/ELECT. DWGS., TYP.

PATCH AND MAKE GOOD EXISTING ROOF SLAB FOR NEW PAINT FINISH. REFER TO ROOM FINISH SCHEDULE.

CONSTRUCTION NOTES

G.C. IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.

CONTRACTOR TO REMOVE EXISTING WINDOW COVERINGS, HARDWARE, ETC. AND STORE FREE FROM DIRT AND DAMAGE AND RE-INSTALL AFTER CONSTRUCTION IS COMPLETE.

CONTRACTOR TO PREPARE AND PAINT ALL EXISTING AND NEW WALLS IN CONSTRUCTION AREA (INCLUDING AREAS IN EXISTING CORRIDORS). REFER TO SPECIFICATION AND SCHEDULES.

STUFF DECK FLUTES AND ANY TOP OF WALL PENETRATIONS WITH ROXUL AND CAULKING AS REQUIRED TO MAINTAIN EXISTING SMOKE-TIGHT JOINTS FOR EXISTING 0 HOUR FIRE SEPARATION AT CORRIDOR WALLS. REFER TO A01 FIRE SEPARATIONS AND SPECIFICATIONS.

AREA OF WORK TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION. ALL OF CONSTRUCTION DUST, DEBRIS AND MATERIALS AS PER SPECIFICATION SECTION 017411.

EXISTING CORRIDOR CEILING HEIGHTS ARE TO BE INSTALLED TO MATCH EXISTING HEIGHT SEAMLESSLY. CONTRACTOR TO FIELD VERIFY AS REQUIRED.

1 RE-INSTALL/MODIFY EXISTING ACOUSTIC CEILING GRID, TILES, PERIMETER TRIM, HANGERS, ETC. AS REQUIRED FOR NEW RENOVATION. FIELD VERIFY AS REQD PRIOR TO CONSTRUCTION. IF NEW TILES, GRID, ETC. ARE REQUIRED, CONTRACTOR TO ENSURE NEW MATERIALS MATCH EXISTING.

2 CONTRACTOR TO INSTALL NEW LIGHTING FIXTURES, HARDWARE, HANGERS, WIRING ETC. AS REQUIRED FOR INSTALLATION. REFER ELEC. DWGS.

3 CONTRACTOR TO INSTALL NEW 400mm x 400mm ACCESS PANEL IN CEILING SPACE.

4 NEW ACOUSTIC CEILING TILES, WIRES, TRACKS, HARDWARE, ETC. SEE MECH/ELECT. DWGS., TYP. NEW TILES AND GRID TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY AS REQUIRED.

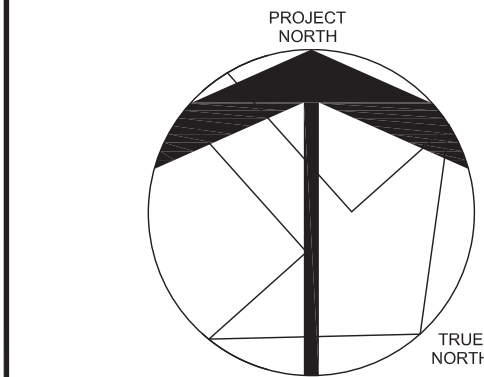
5 90mm METAL STUDS @ 16" O/C WITH 12mm MOLD & MILDEW RESISTANT GYPSUM PAINT FINISH. REFER TO MECH/ELEC. DWGS. FOR ROUGHING AND DEVICE LOCATIONS.

6 CONTRACTOR TO REINSTALL EXISTING LIGHTING FIXTURES, HARDWARE, HANGERS, WIRING ETC. AS REQUIRED FOR INSTALLATION. REFER ELEC. DWGS.

7 CONTRACTOR TO INSTALL NEW CEILING MOUNTED EXHAUST FAN. REFER TO MECH/ELEC. DWGS.

8 CONTRACTOR TO INSTALL NEW GRILLE FOR RETURN. REFER TO MECH/ELEC. DWGS.

9 CONTRACTOR TO PAINT FINISH EXISTING AND NEW ROOF SLAB, STRUCTURAL BEAMS ETC. TO MATCH EXISTING. REFER TO ROOM FINISH SCHEDULE.



RCP LEGEND

- PROPOSED LIFT MED. FRAGILE TRACKLIFT SYSTEM. SEE SPEC.
- LIGHT FIXTURE REFER TO LIGHTING PLANS/ LIGHTING SCHEDULES FOR TYPE
- FLUSH MOUNTED FLUORESCENT LIGHT FIXTURE - TYPE 1 SEE ELEC. DWGS
- NEW ACOUSTIC CEILING PANELS WITH TRIM, TEES, HANGERS, ETC.
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- EXHAUST GRILL
- RADIANT PANEL
- RP
- GYPSUM BOARD CEILING TO BE PAINTED, COLOUR TO BE DETERMINED. SEE SPEC.
- LIGHT FIXTURE, FOR TYPE AND MOUNTING SEE ELEC. DWGS
- CEILING HEIGHT FROM FIN. FLOOR
- SPRINKLER; SEE MECH. DWGS.
- BV BRICK VENTS
- LF NEW LIGHT FIXTURE, PATCH AND MAKE GOOD WALL AS REQD. SEE ELEC. DWGS.
- GB GYPSUM BOARD
- AREA OF EX. CEILING TO REMAIN, UNLESS NOTED OTHERWISE

03	ISSUED FOR TENDER	22-04-2025
02	ISSUED FOR BUILDING PERMIT	23-12-2024
01	ISSUED FOR SPA	11-5-2024

NO ISSUED DATE

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ADDITION TO ALLAN A MARTIN PUBLIC SCHOOL

LEGAL DESCRIPTION
PART OF LOT 8 AND 9
REGISTERED PLAN E-48
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEEI



PART SECOND FLOOR DEMOLITION
REFLECTIVE CEILING FLOOR PLAN AND
PROPOSED REFLECTIVE CEILING FLOOR PLAN

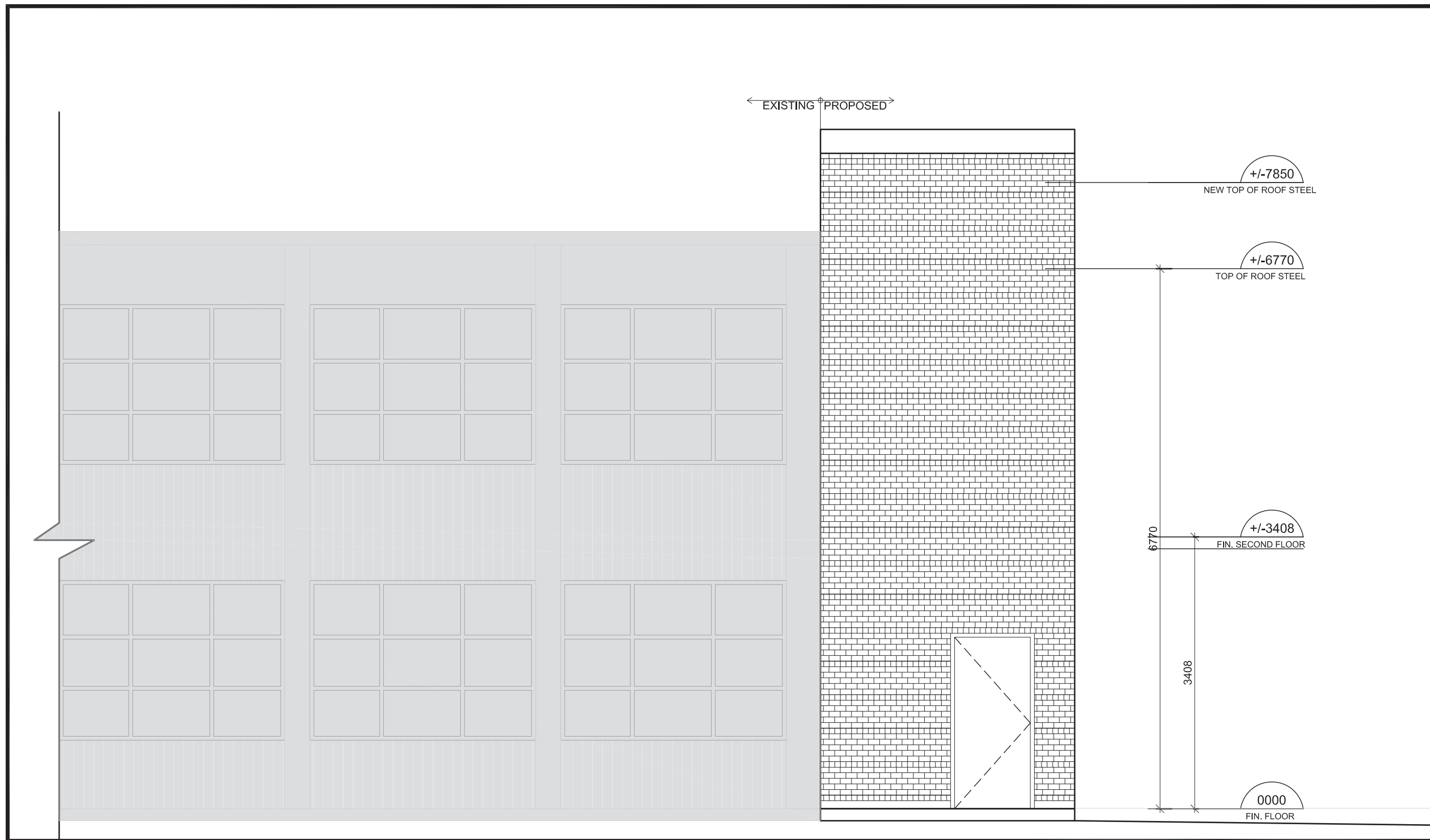


185 - 1839 IRONDALE WAY
DARKVILLE D N L6H 3V8
(905) 815-5504 aaron@hossackarch.com

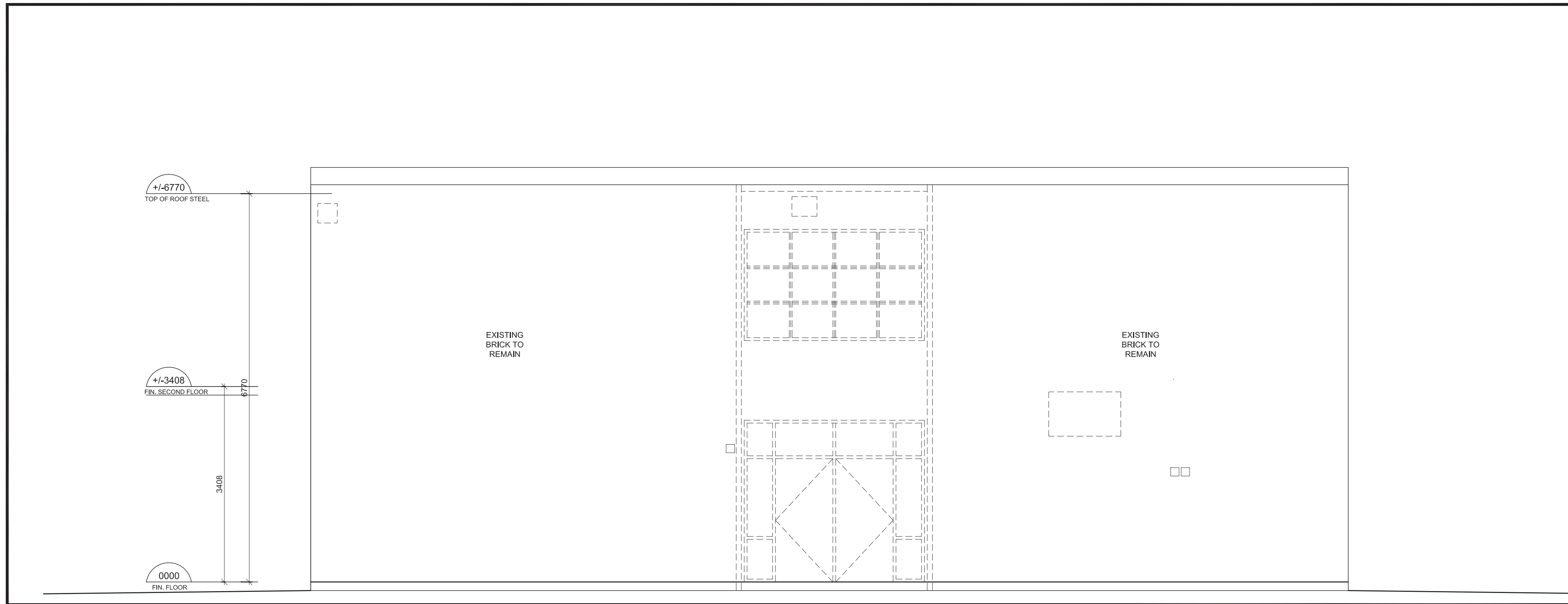
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AS SHOWN	24126
DATE	CT/ST
OCT 25, 2024	GY
DRAWN	DRAWING
CHECKED	A05
PRINT DATE	OCT 25, 2024
CAD FILE	T:2412602

1 PARTIAL SECOND FLOOR - DEMOLITION REFLECTIVE CEILING PLAN
A05 SCALE 1:50

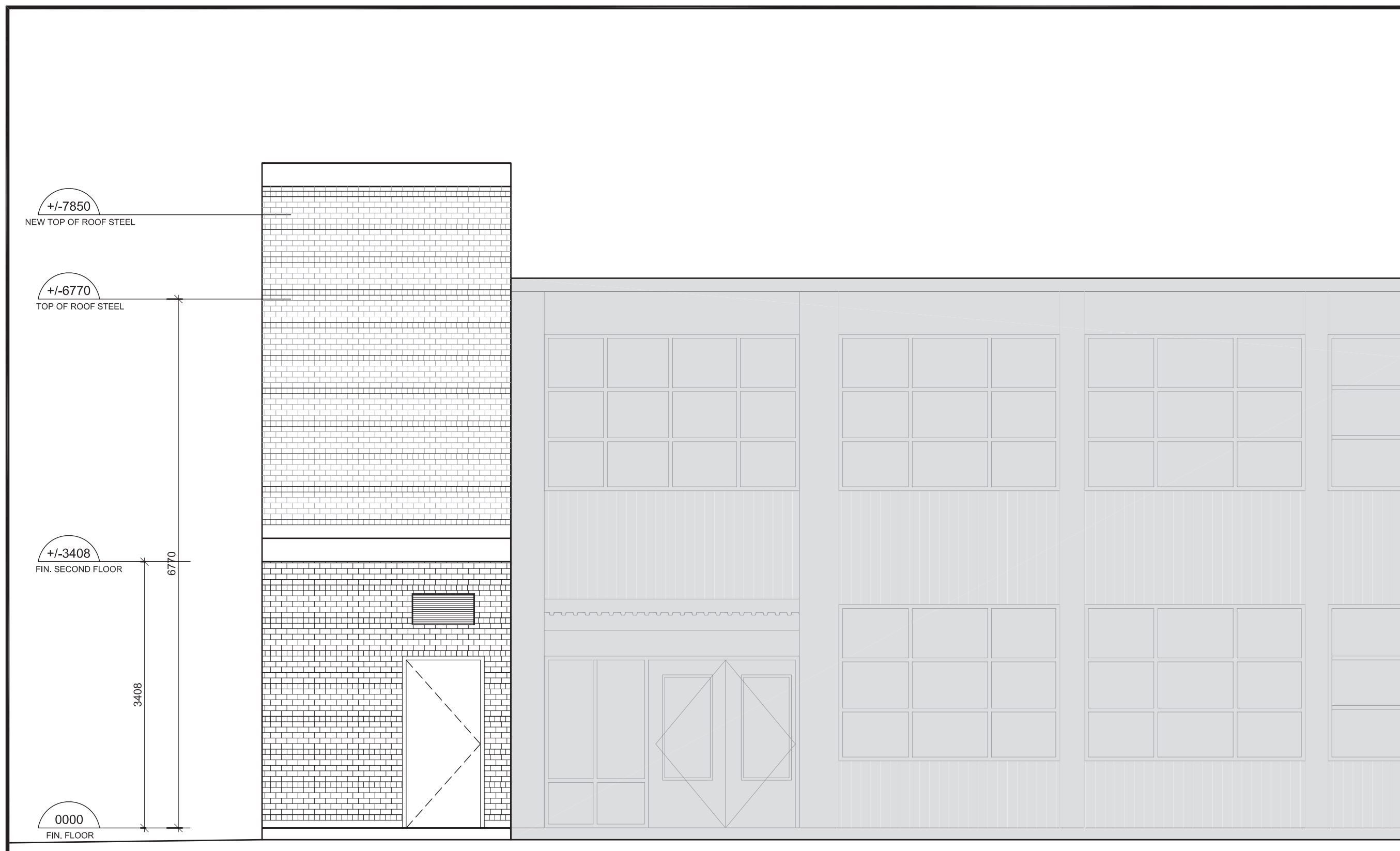
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A05 SCALE 1:50



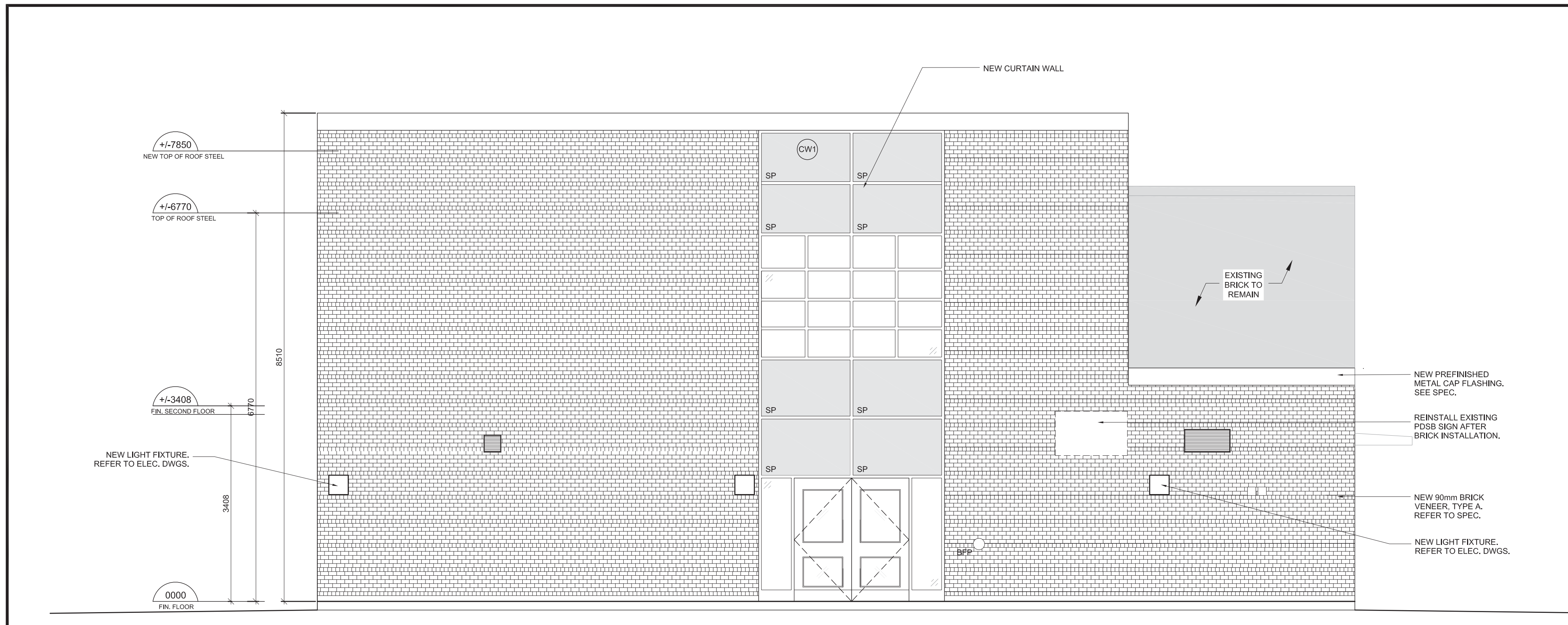
4 EXTERIOR ELEVATION - PROPOSED PART NORTH ELEVATION
A06 SCALE 1:50



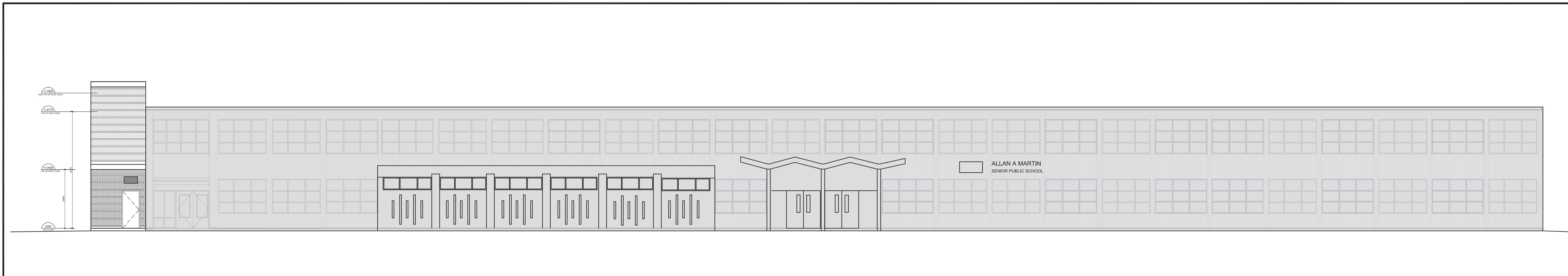
5 EXTERIOR ELEVATION - WEST DEMOLITION ELEVATION (FOR REFERENCE)
A06 SCALE 1:50



2 EXTERIOR ELEVATION - PROPOSED PART SOUTH ELEVATION
A06 SCALE 1:50



3 EXTERIOR ELEVATION - PROPOSED PART WEST ELEVATION
A06 SCALE 1:50



1 EXTERIOR ELEVATION - SOUTH ELEVATION
A06 SCALE 1:100

- DEMOLISH ITEMS
- PROPOSED BRICK
- PROPOSED SPANDREL PANEL
- PROPOSED CURTAIN WALL

03	ISSUED FOR TENDER	22-04-2025
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NO	ISSUED	DATE

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ADDITION TO ALLAN A MARTIN PUBLIC SCHOOL

LEGAL DESCRIPTION
PART OF LOT 8 AND 9
REGISTERED PLAN E-88
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEE



DEMOLITION
ELEVATION,
EXTERIOR
ELEVATIONS

HOSSACK
ARCHITECTURE



SCALE	PROJECT
AS SHOWN	24126
DATE	
OCT 25, 2024	
DRAWN	DRAWING
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CHECKED	CT/ST
	A06
PRINT DATE	OCT 25, 2024
CAD FILE	T:2412602



02	ISSUED FOR TENDER	22-04-2025
01	ISSUED FOR BUILDING PERMIT	23-12-2024
NO	ISSUED	DATE

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APRIL 23, 2025

ADDITION TO ALLAN A
MARTIN PUBLIC SCHOOL

LEGAL DESCRIPTION

PART OF LOT 8 AND 9
REGISTERED PLAN E-88
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEEL



BUILDING SECTION & DETAILS

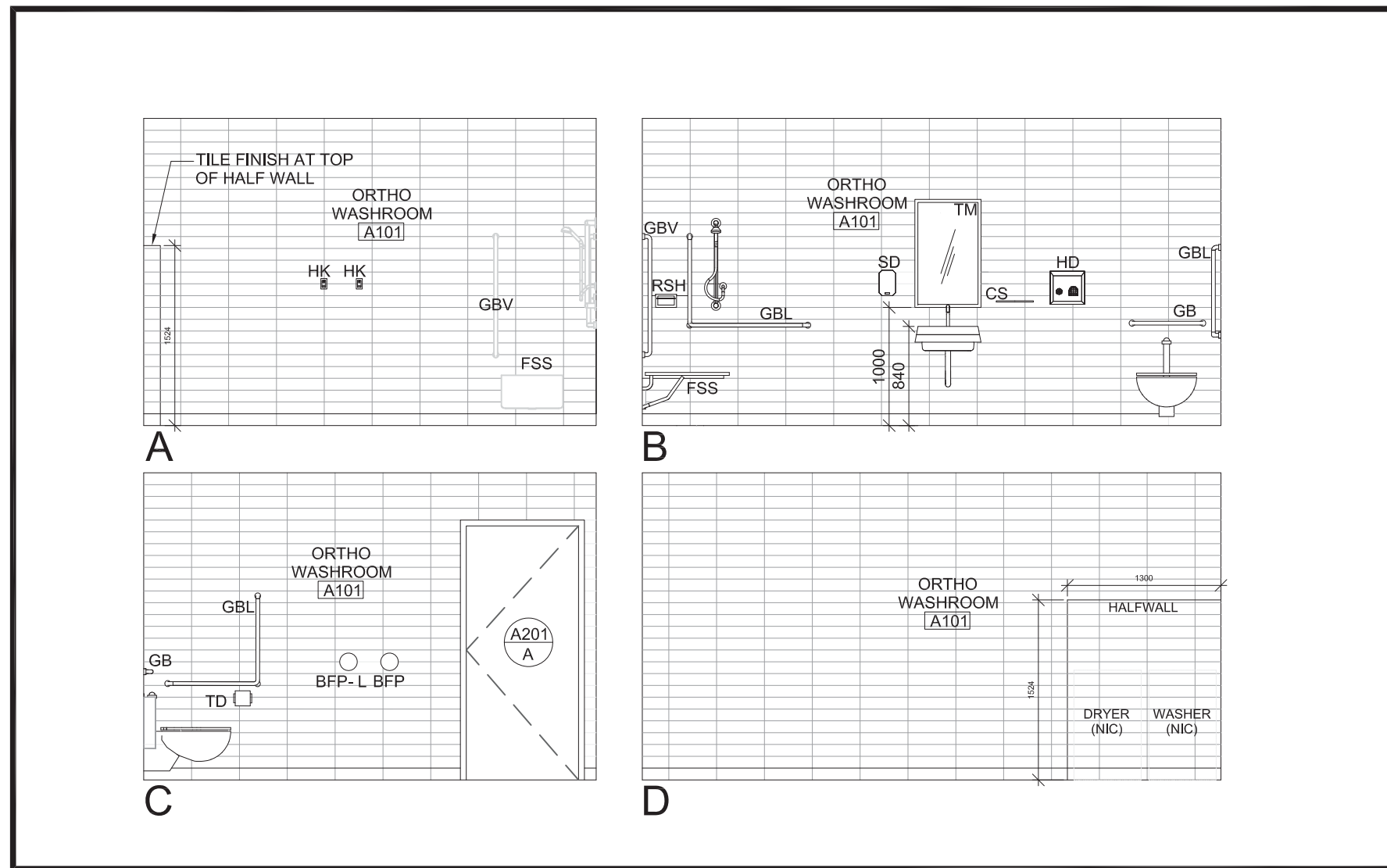
HOSSACK
ARCHITECTURE

105 - 1939 IRON OAK WAY
OAKVILLE ON L6H 3V8
(905) 815-8284 admin@hossackarch.com

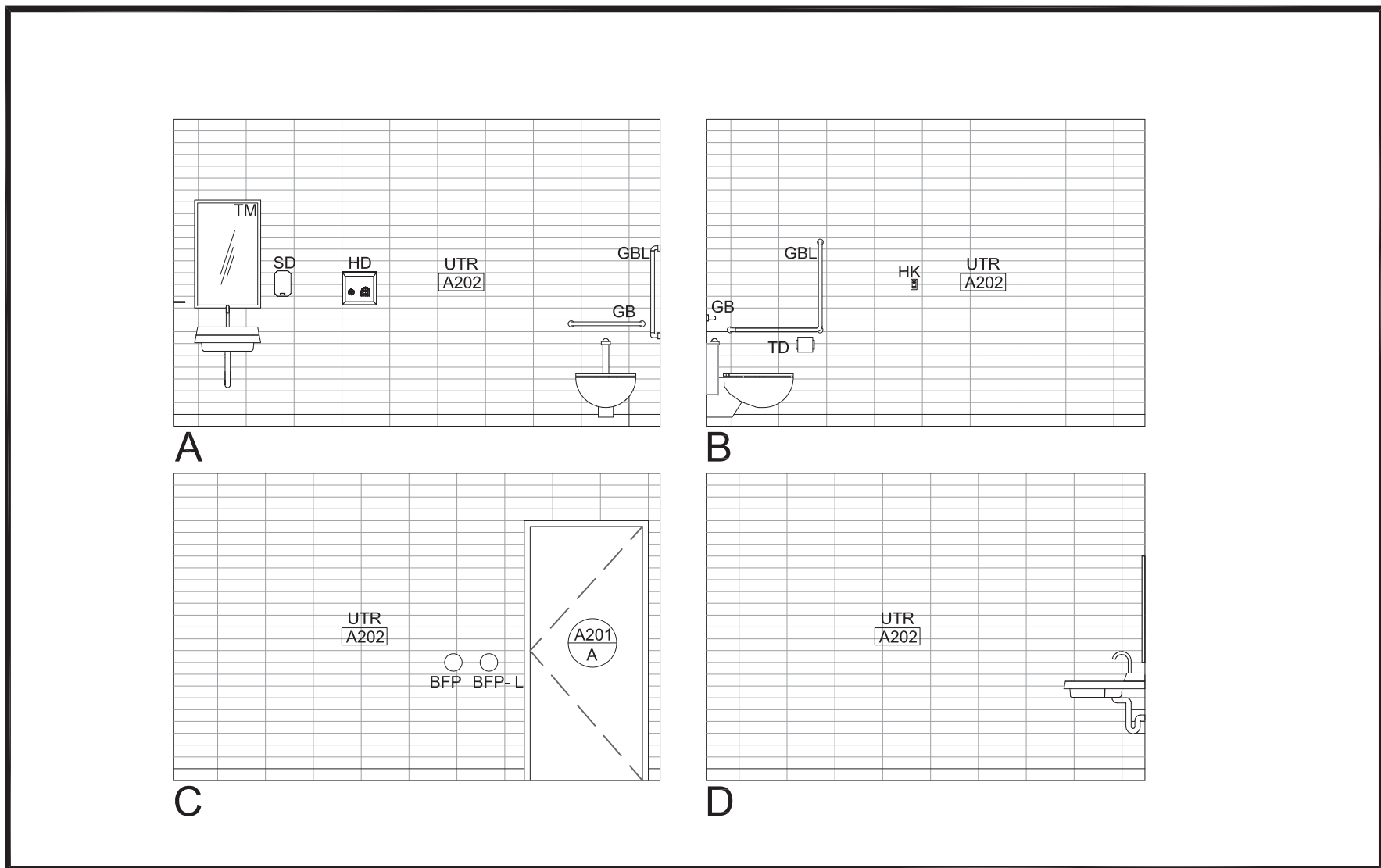
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OCT 25, 2024	
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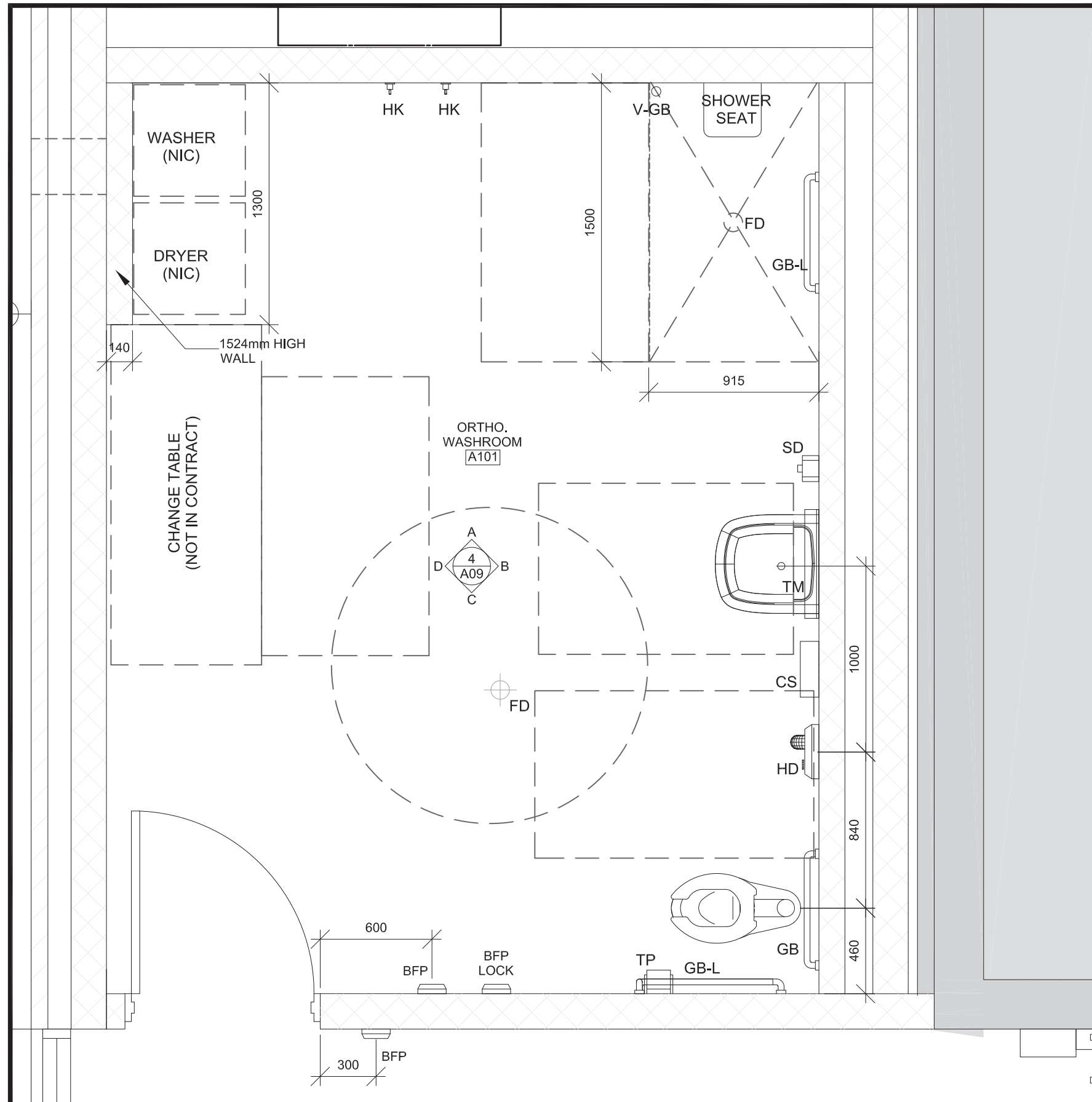
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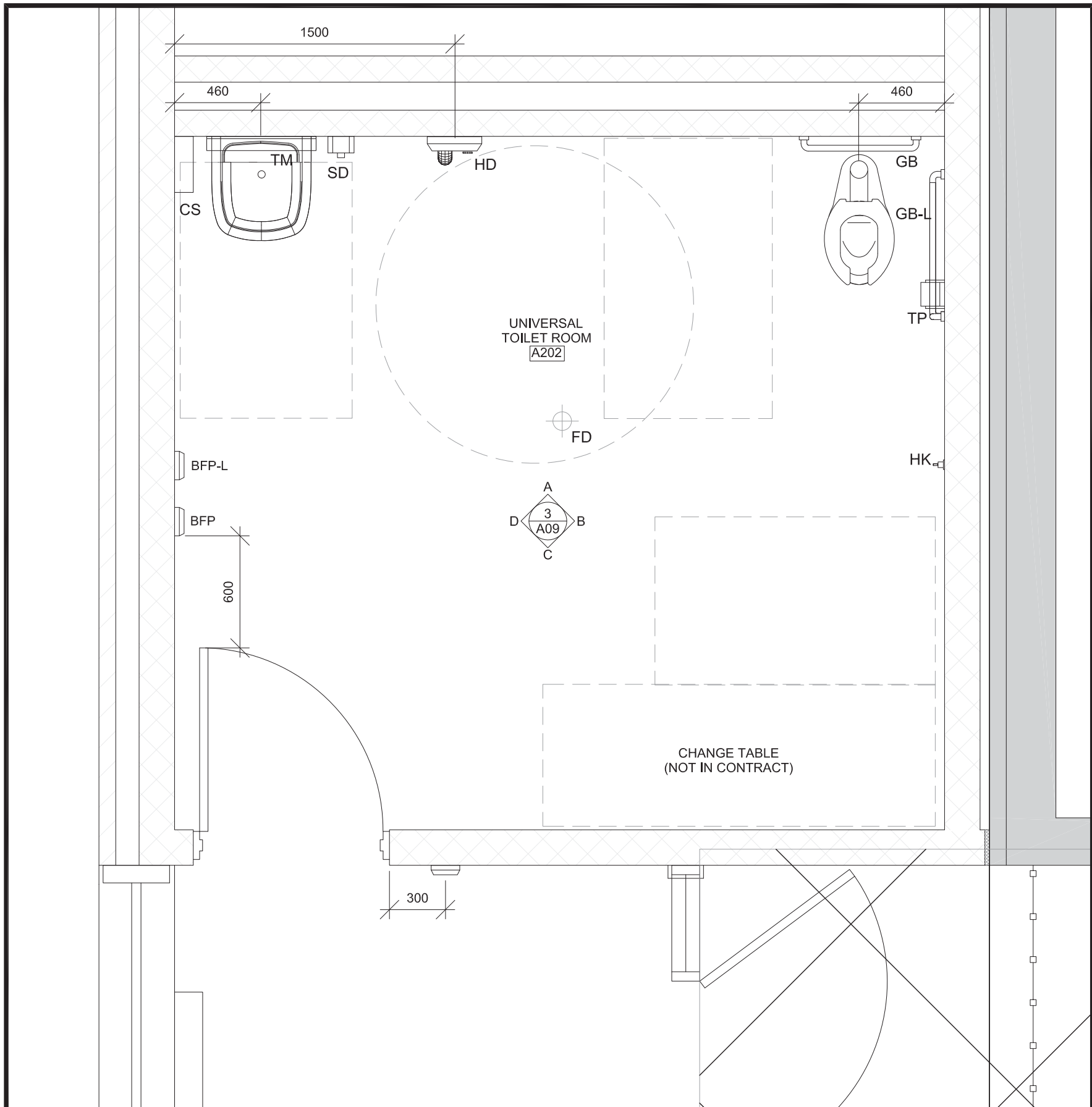
4 INTERIOR ELEVATIONS - ORTHO WASHROOM A101
A09 SCALE 1:50



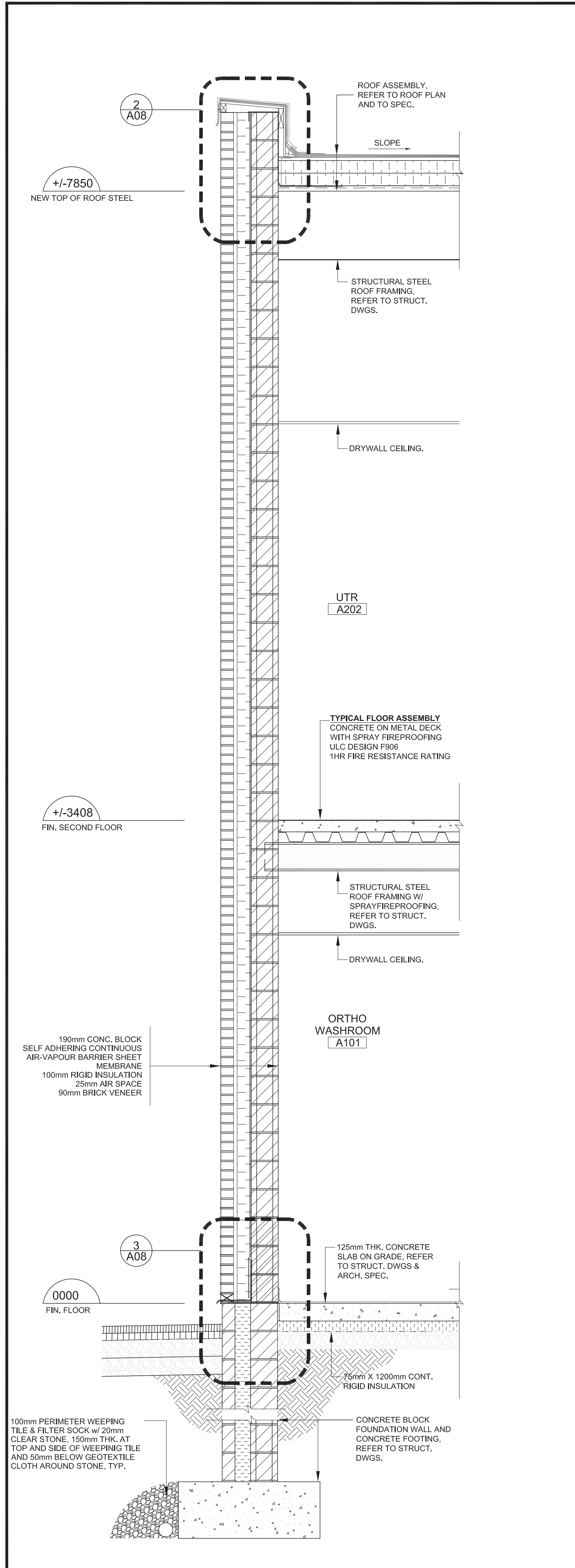
3 INTERIOR ELEVATIONS - INCLUSIVE WASHROOM A201
A09 SCALE 1:50



1 ENLARGED FLOOR PLAN - GROUND FLOOR ORTHO WASHROOM
A09 SCALE 1:25



2 ENLARGED FLOOR PLAN - SECOND FLOOR UTR
A09 SCALE 1:25



5 WALL SECTION
A09 SCALE 1:20

02	ISSUED FOR TENDER	23-04-2025
01	ISSUED FOR BUILDING PERMIT	23-12-2024
NO	ISSUED	DATE

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APRIL 23, 2025

ADDITION TO ALLAN A MARTIN PUBLIC SCHOOL

LEGAL DESCRIPTION
PART OF LOT 8 AND 9
REGISTERED PLAN E-18
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEE



ENLARGED WASHROOM FLOOR PLANS, INTERIOR ELEVATIONS, WALL SECTIONS AND DETAILS



SCALE	PROJECT
AS SHOWN	24126
DATE	FEB 1, 2022
DRAWN	GY/CT
CHECKED	CT/ST
PRINT DATE	FEB 1, 2022
CAD FILE	T:2210602

CONCRETE NOTES

1. ALL STRUCTURAL CONCRETE ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD CANCSA A23.1. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA STANDARD CANCSA A23.1.
2. MINIMUM CONCRETE STRENGTH AT 28 DAYS SHALL BE:
- FOOTINGS - 25 MPa TYPE N
 - FOUNDATION WALLS - 25 MPa TYPE F2
 - PIER - 25 MPa TYPE F2
 - INTERIOR SLAB-ON-GRADE - 25 MPa TYPE N
 - CONCRETE TOPPING - 25 MPa TYPE N
 - MAXIMUM AGGREGATE SIZE - 14mm (5/8")
 - COLUMNS - 35 MPa TYPE N
 - EXTERIOR SLAB ON GRADE - 35 MPa TYPE F2
 - LEAN MIX - 10 MPa TYPE N
- SLUMP SHALL BE 75mm ± 25mm (3" ± 1") U.N.O. AGGREGATE SHALL BE 19mm (3/4") MAXIMUM U.N.O. CONTRACTOR TO SUBMIT CONCRETE MIX DESIGN FOR REVIEW.

3. THE DEFORMED REINFORCING STEEL SHALL CONFORM TO CSA STANDARD C30.18 GRADE 400R FOR STRIPS AND TIES AND GRADE 400R FOR ALL OTHER REINFORCING. ALL REINFORCING HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH A23.1. THE REINFORCING LAP LENGTH SHALL BE CLASS B FOR SPICES UNLESS NOTED OTHERWISE. TYPICAL SPICE LENGTHS SHALL BE AS FOLLOWS:
- 10M BARS: 450 mm (18")
 - 15M BARS: 600 mm (24")
 - 20M BARS: 750 mm (30")
 - 25M BARS: 900 mm (36")

4. WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH CSA G30.18. ALL MESH SHALL BE CHAINED PRIOR TO POURING CONCRETE. LIFTING OF THE MESH DURING THE CONCRETE POUR WILL NOT BE PERMITTED. ALL SPACES SHALL BE A MINIMUM OF TWO CROSSHIRE SPACINGS PLUS 50mm (2").
5. THE REINFORCING COVER FOR CONCRETE SHALL BE:
- 75mm (3") FOR CONCRETE AGAINST EARTH
 - 40mm (1-1/2") FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER WHERE THE REINFORCING BAR IS 10M OR SMALLER
 - 50mm (2") FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER WHERE THE REINFORCING BAR IS 20M OR LARGER
 - 25mm (1") FOR INTERIOR CONCRETE.

- ALL CHAIRS, BOLSTERS, SPACERS AND BAR SUPPORTS SHALL BE IN ACCORDANCE WITH CSA A23.1.
6. CONSTRUCT CONCRETE WALLS WITHOUT CONTROL JOINTS UNLESS NOTED OTHERWISE. PROVIDE CHASES AND BEAM POCKETS IN THE INTERIOR FACE OF CONCRETE WALLS AS REQUIRED.
7. PROVIDE DOWELS FOR WALLS AND COLUMNS TO SUIT THE REINFORCING IN THE WALL OR COLUMN ABOVE.

8. CONCRETE TOPPING DEPTH ON STEEL DECK SHALL BE A MINIMUM OF 83mm (3.25") FROM TOP OF DECK AND REINFORCED WITH 15x152 M18x1718 (6x6 W/ 7/16") WELDED WIRE FABRIC CONFORM WELDED WIRE FABRIC SIZE WITH REQUIRED U.L.C. FIRE RATING ASSEMBLY AS SPECIFIED BY THE ARCHITECT.
9. A STEEL TROWEL FINISH SHALL BE PROVIDED FOR ALL INTERIOR SLABS UNLESS NOTED OTHERWISE. A BROOM FINISH SHALL BE PROVIDED FOR ALL EXTERIOR SLABS UNLESS NOTED OTHERWISE.

10. CONCRETE SCREEDING SHALL BE PROVIDED FOR ALL FOOTING, PIER, WALL, COLUMN, AND SLAB FOURS.
11. CONCRETE SHALL BE PROTECTED AGAINST ADVERSE WEATHER CONDITIONS INCLUDING, BUT NOT LIMITED TO: HIGH WINDS, PRECIPITATION, FREEZING, ABNORMALLY HIGH TEMPERATURES OR TEMPERATURE DIFFERENTIALS, PREMATURE DRYING, AND MOISTURE LOSS IN ACCORDANCE WITH THE REQUIREMENTS OF CANCSA A23.1.

12. WHEN THE AIR TEMPERATURE IS AT OR ABOVE 27° C, OR WHEN THERE IS A PROBABILITY OF THE TEMPERATURE RISING TO 27° C DURING THE PLACING PERIOD, PRELIMINARY TESTS SHALL BE PROVIDED FOR PROTECTION OF THE CONCRETE IN PLACE FROM THE EFFECTS OF HOT AND DRYING WEATHER CONDITIONS FOR THE DURATION OF THE REQUIRED CURING PERIOD. THE REQUIRED CURING PERIOD SHALL BE DETERMINED IN ACCORDANCE WITH CSA A23.1.
13. WHEN THE AIR TEMPERATURE IS AT OR BELOW 5° C, OR WHEN THERE IS A PROBABILITY OF THE TEMPERATURE FALLING BELOW 5° C WITHIN 24H OF PLACING, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE DURATION OF THE REQUIRED CURING PERIOD. THE REQUIRED CURING PERIOD SHALL BE DETERMINED IN ACCORDANCE WITH CSA A23.1. PROTECTION SHALL BE BY MEANS OF HEATED ENCLOSURES, COVERINGS, INSULATION, OR A SUITABLE COMBINATION OF THESE METHODS.

14. WHEN THE AIR TEMPERATURE IS AT OR ABOVE 27° C, OR WHEN THERE IS A PROBABILITY OF THE TEMPERATURE RISING TO 27° C DURING THE PLACING PERIOD, PRELIMINARY TESTS SHALL BE PROVIDED FOR PROTECTION OF THE CONCRETE IN PLACE FROM THE EFFECTS OF HOT AND DRYING WEATHER CONDITIONS FOR THE DURATION OF THE REQUIRED CURING PERIOD. THE REQUIRED CURING PERIOD SHALL BE DETERMINED IN ACCORDANCE WITH CSA A23.1.
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TESTING AND INSPECTIONS

1. THIRD-PARTY TESTING AND INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS AND AS NOTED BELOW. TESTING AND INSPECTION REQUIREMENTS NOTED IN THE PROJECT SPECIFICATIONS SHALL SUPERSEDE THE FOLLOWING REQUIREMENTS.
2. TESTING OF THE FOOTING SUBGRADE SHALL BE PROVIDED PRIOR TO ALL CONCRETE POURS TO ENSURE CONFORMANCE WITH THE BEARING CAPACITIES NOTED IN THESE PLANS AND IN THE GEOTECHNICAL REPORT. KALOS ENGINEERING INC. SHALL BE NOTIFIED IMMEDIATELY IF EXCAVATIONS ARE REQUIRED TO EXTEND BELOW THE NOTED FOUNDING ELEVATIONS.
3. CONCRETE REINFORCING SHALL BE INSPECTED FOR CONFORMANCE TO THE STRUCTURAL DRAWINGS PRIOR TO EVERY CONCRETE POUR.
4. COMPRESSION TESTING OF CONCRETE SHALL BE IN ACCORDANCE WITH CSA A23.1. A MINIMUM OF ONE STRENGTH TEST SHALL BE COMPLETED FOR EACH 100 m³ OF CONCRETE PLACED AND A MINIMUM OF ONE TEST PER DAY SHALL BE COMPLETED FOR CONCRETE OF A SINGLE MIX DESIGN. TESTS SHALL CONSIST OF ONE SET OF FOUR CYLINDERS.
5. THE COMPRESSIVE STRENGTH OF CONCRETE BLOCKS SHALL BE TESTED A MINIMUM OF ONCE PER FLOOR IN ACCORDANCE WITH CSA A165.1. A MINIMUM OF FIVE UNITS OF EACH SIZE OF CONCRETE BLOCK SHALL BE TESTED.
6. MORTAR CUBE COMPRESSIVE STRENGTH SHALL BE TESTED AT LEAST ONCE FOR EACH 500 m³ OF MASONRY FOR A PROJECT HAVING MORE THAN 500 m³ OF MASONRY AND ONCE FOR EACH 350 m³ OF MASONRY FOR A PROJECT HAVING LESS THAN 500 m³ OF MASONRY. FOUR SAMPLES SHALL BE TAKEN FOR EACH TEST.
7. GROUT COMPRESSIVE STRENGTH SHALL BE TESTED AT LEAST ONCE FOR EACH 20 m³ OF GROUT FOR A PROJECT HAVING MORE THAN 20 m³ OF GROUT AND ONCE FOR EACH 10 m³ OF GROUT FOR A PROJECT HAVING LESS THAN 20 m³ OF GROUT. FOUR SAMPLES SHALL BE TAKEN FOR EACH TEST.

8. STRUCTURAL STEEL INSPECTIONS AND TESTING SHALL BE AS FOLLOWS:
- a. INSPECTIONS SHALL BE PERFORMED BY A FIRM CERTIFIED TO CSA W178.1, EXCEPT THAT VISUAL INSPECTION MAY ALSO BE PERFORMED BY PERSONS CERTIFIED TO LEVEL 2 OR 3 OF CSA W178.2.
 - b. INSPECTORS SHALL VERIFY THAT THE ERECTORS ARE CWB CERTIFIED.
 - c. CONNECTIONS SHALL BE INSPECTED FOR CONFORMANCE TO THE ENGINEERED DESIGN DETAILS.
 - d. BOLTED CONNECTIONS SHALL BE INSPECTED IN ACCORDANCE WITH CSA S16. VERIFICATION OF CONNECTION FIT-UP AND BOLT TENSION SHALL BE PROVIDED.
 - e. WELDED CONNECTIONS SHALL BE INSPECTED IN ACCORDANCE WITH CSA S16 AND CSA W59. VISUAL INSPECTIONS SHALL BE PROVIDED TO ENSURE PROPER CONNECTION FIT-UP AND REVIEW OF COMPLETED WELDS.
 - f. INSPECTION FREQUENCY SHALL BE A MINIMUM OF ONCE PER FLOOR OR ONCE PER ERECTION PHASE.
9. METAL DECK THICKNESS, COATING GRADE, SPOT WELDS, MECHANICAL FASTENERS, AND CORROSION SHALL BE INSPECTED BY A CERTIFIED INSPECTOR AT LEAST ONCE PER LEVEL.

SUBMITTALS

1. SUBMIT DETAILED SHOP DRAWINGS FOR ALL STRUCTURAL WORK FOR REVIEW BY THE CONSULTANT INCLUDING, BUT NOT LIMITED TO: CONCRETE MIX DESIGN, REINFORCING STEEL, STRUCTURAL STEEL, MISCELLANEOUS METALS, STEEL DECK, PRECAST CONCRETE, COLD-FORMED STEEL, AND TEMPORARY SHORING.
2. ALL SUBMITTALS SHALL BEAR THE SEAL AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
3. THE SCALE OF THE DRAWINGS SHALL BE SUCH THAT THE DETAILS OF THE STRUCTURAL WORK ARE CLEARLY SHOWN, AND IN NO CASE SMALLER THAN 1/4"=1'-0" (1:30).
4. THE STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED, IN WHOLE OR IN PART, FOR USE AS SHOP DRAWINGS.
5. THE CONTRACTOR SHALL ALLOW FOR A 5 WORKING DAY TURN AROUND TIME FOR THE STRUCTURAL CONSULTANT TO REVIEW THE SHOP DRAWINGS.

MASONRY NOTES

1. ALL STRUCTURAL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD S304.1. ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA STANDARD A371 AND ALL MASONRY CONNECTORS, REINFORCING, AND TYING SHALL BE IN ACCORDANCE WITH CSA A370. ALL MORTAR AND GROUT SHALL BE IN ACCORDANCE WITH A179.
2. ALL CONCRETE BLOCKS SHALL BE NORMAL WEIGHT TYPE H/15MM UNLESS NOTED OTHERWISE. MORTAR SHALL BE TYPE S FOR LOADBEARING MASONRY AND TYPE N FOR NON-LOADBEARING MASONRY.
3. GROUT SHALL CONSIST OF ONE PART PORTLAND CEMENT AND THREE PARTS SAND. MAXIMUM AGGREGATE SIZE SHALL BE 19mm (3/4") WITH WATER TO PROVIDE A MINIMUM 10MPa COMPRESSIVE STRENGTH AT 28 DAYS. SLUMP SHALL BE 200mm to 250mm (8" TO 10").
4. GROUTING:
- a. ALL CELLS CONTAINING REINFORCING SHALL BE GROUTED SOLID.
 - b. ALL MASONRY BELOW BEARING PLATES SHALL BE GROUTED SOLID FULL HEIGHT.
 - c. ALL BELOW-GRADE MASONRY SHALL BE GROUTED SOLID.
 - d. BOND BEAMS SHALL BE GROUTED SOLID.
 - e. GROUT TWO COURSES SOLID AT EACH FLOOR LEVEL TO ACCOMMODATE LEDGER BOARDS.

5. REINFORCING:
- a. PROVIDE VERTICAL REINFORCING AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS:
 - 140mm (6") CONCRETE BLOCK
 - 190mm (8") CONCRETE BLOCK - 15M VERTICAL AT 800mm (32") O.C.
 - 290mm (12") CONCRETE BLOCK - 20M VERTICAL AT 800mm (32") O.C.
 - b. TRIM ALL OPENINGS WITH TWO VERTICAL BARS ON EACH SIDE OF OPENING. BARS SHALL BE PLACED IN THE FIRST TWO CORES ON EACH SIDE OF THE OPENING AND THE BAR SIZE SHALL MATCH THE WALL REINFORCING UNLESS NOTED OTHERWISE.
 - c. PROVIDE FULL-HEIGHT VERTICAL BARS IN ALL CORES BENEATH BEARING PLATES. THE BAR SIZE SHALL MATCH THE WALL REINFORCING. IF HORIZONTAL REINFORCING SHALL BE GALVANIZED HEAVY-DUTY LADDER TYPE IN EVERY SECOND COURSE UNLESS NOTED OTHERWISE ON THE DRAWINGS.
 - d. DO NOT EXTEND HORIZONTAL REINFORCING THROUGH CONTROL JOINTS UNLESS OTHERWISE NOTED.

6. FOUNDATION WALL HEIGHTS AND COURSING SHALL BE BASED ON THE UNDERSIDE OF THE FOOTING ELEVATION. THE FOOTING THICKNESS, AND THE GROUND FLOOR FINISHED FLOOR ELEVATION. THIS SHALL BE SUPERSEDED WHERE A TOP OF FOOTING ELEVATION IS SPECIFIED. DO NOT COUNT THE COURSING IN THE FOUNDATION SECTIONS.
7. PROVIDE STEEL LINTELS OVER ALL OPENINGS AND RECESSES INCLUDING OPENINGS FOR MECHANICAL AND ELECTRICAL. CONCRETE REFER TO THE LINTEL SCHEDULE ON DRAWING SXX FOR DETAILS. ALL EXTERIOR LINTELS TO BE HOT DIP GALVANIZED.

8. PROVIDE BEARING PLATES BENEATH ALL BEAMS, JOISTS, AND BEAM LINTELS AND GROUT THE PLATE INTO THE WALL. REFER TO THE BEARING PLATE SCHEDULE ON DRAWING SXX FOR DETAILS.
9. BUILD THE MASONRY SOLID AROUND ALL BEAM, LINTEL, AND JOIST POCKETS. LOOSE INFILL BLOCKS IN ABOVE-CEILING SPACES ARE NOT PERMITTED.
10. ALL MORTAR JOINTS SHALL BE TOOLED TO PROVIDE A CONCAVE PROFILE UNLESS NOTED OTHERWISE.

11. MORTAR JOINTS SHALL BE 10mm (3/8") THICK. STARTING BED JOINTS ON NON-MASONRY ELEMENTS SHALL BE FROM 6mm (1/4") TO A MAXIMUM OF 19mm (3/4") EXCEPT FOR MASONRY VENEER BUILT ON SHELF ANGLES OR LINTELS WHERE THE THICKNESS SHALL BE FROM 6mm TO 19mm (1/4").
12. VERTICAL CONTROL JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 6m (20'-0"). REFER TO ARCHITECTURAL DRAWING FOR DETAILS AND LOCATIONS.

13. THE MASONRY SHALL BE CONSTRUCTED EVENLY WITH MAXIMUM LIFTS OF 1200mm (40') FOR DAY. DO NOT TOOTH AND BOND OR STACK BOND MASONRY. RAKE BACK ENDS OF UNFINISHED WALLS.
14. PROVIDE TEMPORARY BRACINGS AS REQUIRED TO SUPPORT THE MASONRY WALLS DURING CONSTRUCTION.
15. PROTECT MASONRY WALLS FROM THE ELEMENTS AT ALL TIMES IN ACCORDANCE WITH CSA A371. COLD WEATHER PROTECTION IS REQUIRED BELOW 4° C AND HOT WEATHER PROTECTION IS REQUIRED ABOVE 27° C. ALL BLOCK, BRICK, AND MORTAR AND GROUT COMPONENTS SHALL BE PROTECTED AGAINST PRECIPITATION.

16. A WEATHERPROOF MEMBRANE SHALL BE PROVIDED OVER OPEN BLOCK CORES TO PREVENT THE INGRESS OF WATER AND SNOW INTO THE CORES. THE MEMBRANE SHALL EXTEND 600mm DOWN BOTH SIDES OF THE MASONRY.
17. MASONRY PARTITIONS OF HOLLOW UNITS SHALL BE LATERALLY SUPPORTED TO STRUCTURAL ELEMENTS AT INTERVALS NOT TO EXCEED 3.1M (10'-0") MINIMUM.
18. ADJUSTABLE VENEER TIES, WHEN USED, SHALL BE CAPABLE OF DEVELOPING COMPRESSIVE AND TENSILE RESTRAINT BETWEEN WYTHES. MASONRY VENEER TIES SHALL BE SPACED NOT MORE THAN 800mm (2'-8") HORIZONTALLY AND 900mm (2'-0") VERTICALLY IN ACCORDANCE WITH CSA S304.1.

FOUNDATION NOTES

1. FOOTINGS SHALL BEAR ON NATIVE UNDISTURBED SOIL, WITH A MINIMUM BEARING RESISTANCE OF:
- 150 kPa (4000 psf) SLS
 - 225 kPa (4000 psf) ULS
- THE CONTRACTOR SHALL VERIFY THE BEARING CAPACITY WITH A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE. REFER TO GEOTECHNICAL REPORT PREPARED BY FORWARD ENGINEERING AND ASSOCIATES DATED DECEMBER 4TH, 2024 REPORT NO. S2451.
2. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATION OR STEP-DOWN FOOTINGS SHALL NOT EXCEED A RISE OF 1 IN A RUN OF 10. STEP HEIGH SHALL NOT EXCEED 600mm (2'-0").
3. KEEP EXCAVATIONS DRY BEFORE CONCRETE IS PLACED. REMOVE ALL LOOSE MATERIAL, SOFT SOIL, OR WATER PRIOR TO PLACING CONCRETE. PROVIDE A 75mm (3") MUD MAT FOR ALL FOOTINGS BELOW THE WATER TABLE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMATERING AND ASSOCIATED PERMITS AND APPLICATIONS.
5. ALL FOOTINGS SHALL BE CENTRED ON THE WALL UNLESS OTHERWISE NOTED.
6. THE FOOTING DESIGN IS BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. THE FOOTING DESIGN MAY BE ALTERED DURING CONSTRUCTION IF THE SITE CONDITIONS WARRANT, BUT ONLY WITH THE EXPRESS PERMISSION OF THE ENGINEER.

7. THE GENERAL CONTRACTOR SHALL PROVIDE HEATING AND HOARDING AS REQUIRED PER CSA A23.1 AND/OR CSA S304 TO PROTECT ALL FOOTINGS, WALLS, AND SLABS AGAINST FROST ACTION DURING CONSTRUCTION. ALL EXTERIOR FOOTINGS SHALL BE FOUNDED BELOW THE FROST LINE. MINIMUM 1200mm (4'-0") BELOW GRADE. PROVIDE TEMPORARY HEATING AND HOARDING FOR ALL FOOTINGS DO NOT ABOVE THE FROST LINE DURING WINTER CONSTRUCTION.
8. DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL THE ELEMENTS PROVIDING LATERAL SUPPORT ARE COMPLETE. PLACE BACKFILL IN A MANNER WHERE THE ELEVATION DIFFERENCE ON EITHER SIDE OF THE WALL IS NO GREATER THAN 450mm (1'-6"). PROVIDE TEMPORARY SHORING AS REQUIRED.

9. ALL FILL MATERIALS UNDER FLOOR SLABS ON GRADE SHALL BE MECHANICALLY COMPACTED IN LAYERS TO 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMD) UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT.
10. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND SIZES OF ALL UNDERGROUND SERVICES AND ADVISE THE ENGINEER AND ARCHITECT OF ANY INTERFERENCES PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION OR EXCAVATION WORKS.

14. THE GROUND IMPROVEMENT METHOD IS TO BE DESIGNED BY A SOIL IMPROVEMENT ENGINEER AND CONTRACTOR. SEQUENCING OF ENGINEERED FILL AND GROUND IMPROVEMENT SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. ANY REQUIRED WORK PLATFORMS OR GRANULAR PADS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
15. FOUNDATION WALL HEIGHTS AND COURSING SHALL BE BASED ON THE UNDERSIDE OF FOOTING ELEVATION, THE FOOTING THICKNESS, AND THE GROUND FLOOR FINISHED FLOOR ELEVATION. THIS SHALL BE SUPERSEDED WHERE A TOP OF FOOTING ELEVATION IS SPECIFIED. DO NOT COUNT THE COURSING IN THE FOUNDATION SECTIONS.

GENERAL NOTES

1. CHECK ALL DIMENSIONS ON THESE DRAWINGS WITH ALL OTHER DRAWINGS, INCLUDING BUT NOT LIMITED TO, DRAWINGS PREPARED BY ARCHITECTURAL, MECHANICAL, OR ELECTRICAL CONSULTANTS. REPORT ANY INCONSISTENCIES TO THE ENGINEER PRIOR TO COMMENCING WITH THE WORK. DO NOT SCALE THE DRAWINGS.
2. THE DESIGN LIVE LOADS ARE INDICATED ON THE DRAWINGS. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOADS.
3. THE COMPLETED STRUCTURE IS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING, SHORING AND ANY OTHER TEMPORARY OR PERMANENT MEASURES AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT EXISTING OR ADJACENT TO STRUCTURES AS REQUIRED. ALL BRACING AND SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.
4. CONSTRUCTION FEATURES NOT FULLY SHOWN ARE COMPARABLE TO SIMILAR CONDITION DETAILS.
5. REFER TO OTHER CONSULTANT DRAWINGS FOR DETAILS OF OPENINGS, PITS, CHAMBERS, AND DEPRESSIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
6. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST ONTARIO BUILDING CODE, LATEST APPLICABLE REGULATIONS, AND GOOD CONSTRUCTION PRACTICES.
7. THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
8. CLARIFY ANY QUERIES WITH THE ENGINEER REGARDING THE INTERPRETATION OF THE DRAWINGS, PRIOR TO THE COMMENCEMENT OF ANY WORK.
9. KALOS ENGINEERING INC. PROVIDES GENERAL CONFORMANCE REVIEW ONLY FOR THE WORK SHOWN ON THESE DRAWINGS. THIS REVIEW IS A PERIODIC REVIEW TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY KALOS ENGINEERING INC. THE CONTRACTOR SHALL COORDINATE FIELD REVIEWS WITH KALOS ENGINEERING INC. PRIOR TO CANCELING THE STRUCTURAL COMPONENTS AS SHOWN ON THESE DRAWINGS. PROVIDE 48 HOURS ADVANCE NOTICE OF EACH REQUIRED FIELD REVIEW. REVIEW BY KALOS ENGINEERING INC. DOES NOT MAKE US GUARANTORS OF THE CONTRACTOR'S WORK. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
10. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED 'ISSUED FOR CONSTRUCTION' IN THE REVISIONS COLUMN BY KALOS ENGINEERING INC. THE DRAWINGS SHALL NOT BE USED FOR TENDER UNLESS SO INDICATED IN THE REVISION COLUMN.
11. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PRECISE LOCATIONS AND ASSEMBLY TYPES OF REQUIRED FIRE RESISTANCE RATINGS. ALL ENGINEERED PRODUCTS SHALL ACCOUNT FOR APPLICABLE LOAD RESTRICTED ASSEMBLIES.
12. DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS OR ELEMENTS WITHOUT WRITTEN CONSENT OF KALOS ENGINEERING INC.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL ELEMENTS, INCLUDING DESIGN OF ELEMENTS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH CANCSA S16.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO CSA G40.21 (50W) EXCEPT W SECTIONS AND PLATES G40.21. W SECTIONS SHALL BE 50W U.S. GRADE C OR ASTM A500 GRADE C. ANCHOR BOLTS ASTM A1584 (GR 36 or GR 55), COLD FORM SECTIONS ASTM A570M GRADE 350W.
3. ALL SECTIONS SHALL BE PRIME PAINTED WITH THE SURFACE PREPARATION AND PAINTING PROCEDURES IN ACCORDANCE WITH CANCSA S16 UNLESS NOTED OTHERWISE. ALL STEEL EXPOSED TO THE EXTERIOR TO BE HOT DIP GALVANIZED. SECTIONS TO BE RECEIVED FROM THE EXTERIOR TO BE LEFT UNPRIMED. COORDINATE WITH THE ARCHITECTURAL DRAWINGS.
4. ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH CANCSA W59. THE STEEL FABRICATOR SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS BY THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CANCSA W47.1.
5. DESIGN ALL MOMENT AND SHEAR CONNECTIONS FOR THE FULL CAPACITY OF THE SMALLER MEMBER IN THE CONNECTION UNLESS OTHERWISE NOTED. MOMENT CONNECTIONS SHALL BE PROVIDED FOR MAJOR AND MINOR AXIS BENDING WHERE NOTED. THE STEEL CONTRACTOR SHALL PROVIDE LOCAL REINFORCING OF MEMBERS AS REQUIRED FOR CONNECTION FORCES AS PART OF THE CONNECTION DESIGN.
6. PROVIDE MINIMUM BEARING LENGTH OF STEEL MEMBERS AS FOLLOWS:
- ON MASONRY - 150mm (6")
 - ON STEEL - 100mm (4")
 - ON BEARING PLATES - FULL LENGTH OF BEARING PLATE.
7. THE BASE PLATE AND BEARING PLATE GROUT SHALL BE OF THE CEMENTITIOUS NON-SHRINK TYPE AND SHALL BE A MINIMUM OF 25mm (1") THICK WITH A COMPRESSION STRENGTH OF 50 MPa AT 28 DAYS.
8. FULLY WELD BASE PLATES TO COLUMNS AND PROVIDE MINIMUM 6mm (1/4") THICK CAP PLATES ON ALL COLUMNS.
9. PROVIDE MINIMUM 175x175x12mm (7"x7"x1/2") BEARING PLATES FOR ALL STRUCTURAL STEEL. W 2-100 (58") I-P MEMBERS, 100mm (4") LONG WITH 50mm (2") BENT HOOKS UNLESS NOTED OTHERWISE.
10. ALL BOLTS SHALL BE TIGHTENED WITH A SUITABLE TORQUE WRENCH IN ACCORDANCE WITH CSA S16.
11. ERECT STRUCTURAL STEEL IN ACCORDANCE WITH CSA S16 AND IN CONFORMANCE WITH THE REVIEWED SHOP DRAWINGS.
12. THE STRUCTURAL STEEL CONTRACTOR SHALL SUPPLY ALL LINTELS OVER DOORS, WINDOWS, DUCT AND PIPE PENETRATIONS, AND ALL BEARING PLATES, ANCHOR BOLTS, WALL ANCHORS, SILL ANGLES, TRIMMER ANGLES, AND MASONRY CLIPS OR COLUMNS LOCATED WITHIN MASONRY WALLS.
13. THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY SHORING OF ALL FLUSH BEAMS. SHORING SHALL REMAIN IN PLACE UNTIL FLUSH BEAM GROUT HAS FULLY CURED.
14. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND COORDINATING THE STRUCTURAL STEEL SUBMITTALS WITH WORK IN OTHER SPECIFICATION SECTIONS INCLUDING, BUT NOT LIMITED TO, PRECAST METAL DECK.

LOADING SUMMARY

DESIGN STANDARDS

- ONTARIO BUILDING CODE, 2012, PART 4: STRUCTURAL DESIGN
- CSA A23.3-14, DESIGN OF CONCRETE STRUCTURES
- CANCSA A23.4-16, DESIGN OF PRECAST CONCRETE STRUCTURES
- CSA S304-14, MASONRY DESIGN FOR BUILDINGS
- CANCSA S16-14, LIMIT STATES DESIGN OF STEEL STRUCTURES
- CANCSA S136-16, NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS
- CANCSA A286-14, ENGINEERING DESIGN IN WOOD

SNOW, ICE AND RAIN LOADS

- APPLIED PER OBC, PART 4, SECTION 4.1.6
- IMPORTANCE FACTOR, I_s 0.9 (SLS) 1.15 (ULS)
 - GROUND SNOW LOAD, S_g 1.1 kPa (22.97 PSF)
 - ASSOCIATED RAIN LOAD, S_r 0.4 kPa (8.35 PSF)
 - WIND EXPOSURE FACTOR, C_w 1.0
 - ROOF SNOW LOAD, S 1.47 kPa (30.90 PSF)
 - DRIFT LOADS PER CLAUSE 4.1.6.2.8 0.34 kPa (7.00 PSF)
 - SLOPE FACTORS PER CLAUSE 4.1.6.2.8 (5) TO (7)

WIND LOADS

- APPLIED PER OBC, PART 4, SECTION 4.1.7
- IMPORTANCE FACTOR, I_w 0.75 (SLS) 1.15 (ULS)
 - REFERENCE VELOCITY PRESSURE FOR STRUCTURAL MEMBERS 0.44 kPa (9.30 PSF)
 - REFERENCE VELOCITY PRESSURE FOR CLADDING & NON-STRUCTURAL MEMBERS 0.34 kPa (7.00 PSF)
 - GUST FACTORS G 2.0 FOR WHOLE & MAIN STRUCTURAL MEMBERS 2.5 FOR SMALL ELEMENTS INCLUDING CLADDING 2.0 FOR INTERNAL PRESSURES
 - BUILDING INTERNAL PRESSURE CATEGORY 2 PER NBC 2010 STRUCTURAL COMMENTARY (PART B), COMMENTARY 6

SEISMIC LOADS

- APPLIED PER OBC, PART 4, SECTION 4.1.8
- IMPORTANCE FACTOR, I_e 1.3 (ULS)
 - S_a (0.2) 0.219
 - S_u (0.2) 0.115
 - S_d (1.0) 0.058
 - S_u (2.0) 0.028
 - PGA 0.141
 - SOIL CLASS C
 - F_a 1.0

FLOOR LOADS

- APPLIED PER OBC, PART 4, TABLE 4.1.5.3
- CLASSROOMS 2.4 kPa (50 PSF)
 - WASHROOMS 2.4 kPa (50 PSF)
 - STORAGE 4.8 kPa (100 PSF)
 - CORRIDOR 4.8 kPa (100 PSF)
 - MECHANICAL 3.6 kPa (75 PSF)

SEISMIC SWAY BRACING

ARTICLE 4.1.8.18(2) OF THE ONTARIO BUILDING CODE NOTES THAT IF THE PRODUCT OF $I_e \cdot F_a \cdot S_u(0.2)$ IS LESS THAN 0.35, THE REQUIREMENTS NOTED ABOVE NEED NOT APPLY. THESE VALUES ARE EVALUATED BELOW. THIS EXEMPTION IS NOT APPLICABLE TO POST-DISASTER BUILDINGS.

BASED ON THE ABOVE NOTED VALUES, THE PRODUCT OF $I_e \cdot F_a \cdot S_u(0.2) = 1.3 \cdot 1.0 \cdot 0.219 = 0.2847$, GIVEN THIS IS LESS THAN THE THRESHOLD OF 0.35, THE APPLICATION OF THE LATERAL FORCE (09) TO ALL ELEMENTS AND COMPONENTS AND SWAY BRACING IS NOT REQUIRED.

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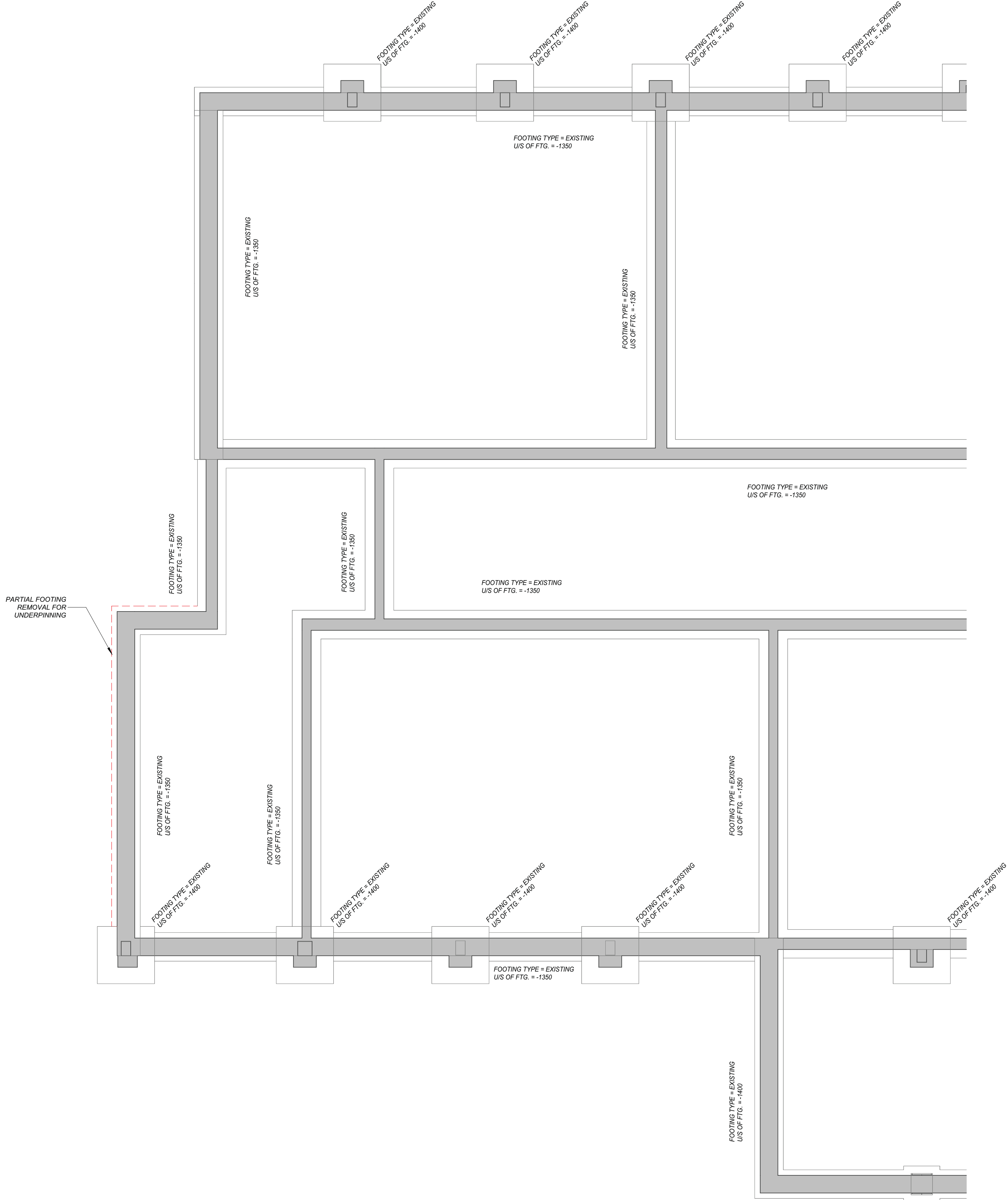
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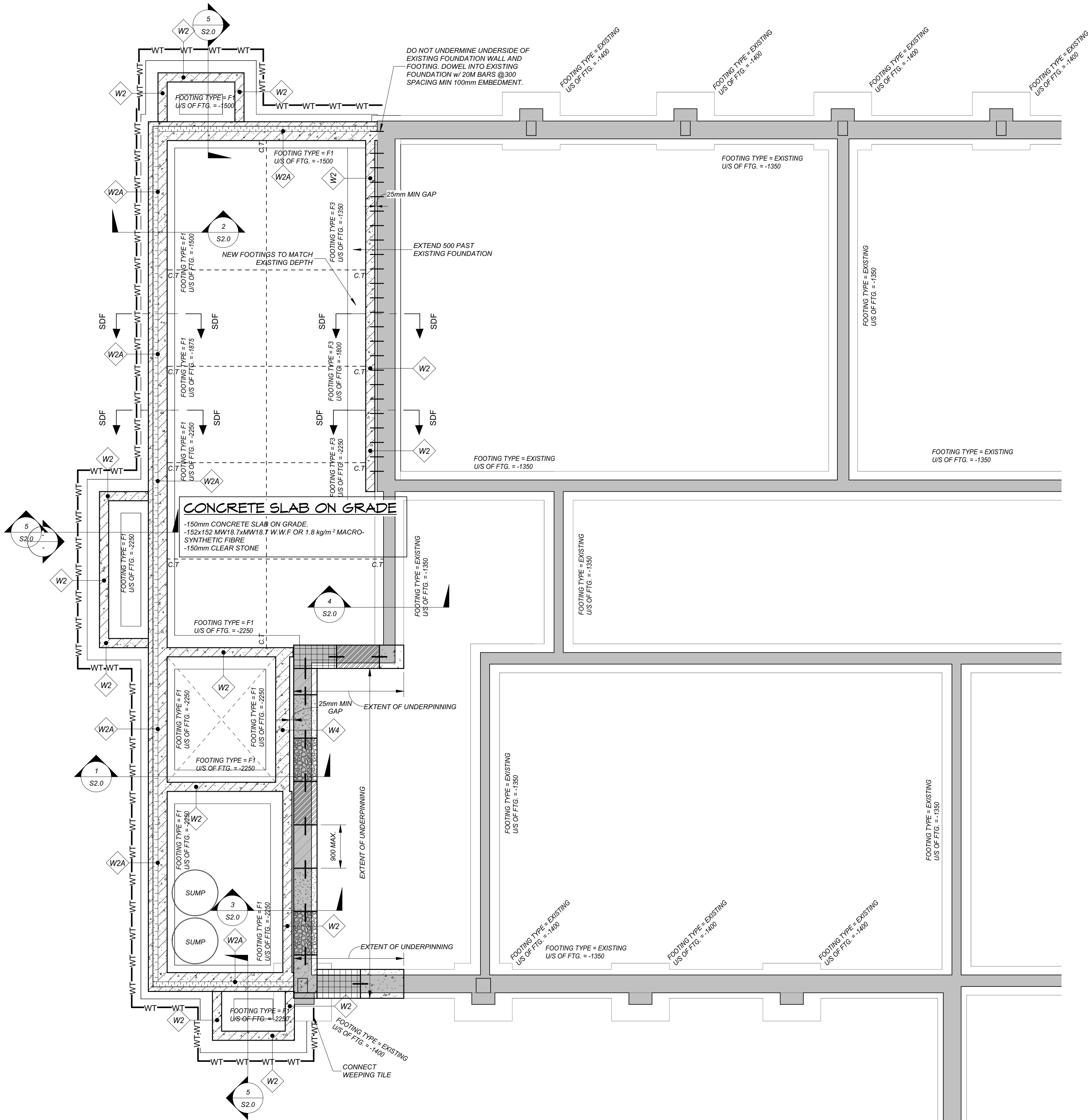
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FOUNDATION PLAN - DEMOLITION
SCALE 1 : 50



FOUNDATION PLAN - PROPOSED
SCALE 1 : 50

FOUNDATION NOTES

1. TOP OF FLOOR SLAB ELEVATION = -0.000 (98.30m FFE) UNLESS NOTED OTHERWISE.
2. REFER TO S2.0 FOR TYPICAL FOUNDATION DETAILS AND S.O.0 FOR CONCRETE NOTES.
3. ELEVATIONS SHOWN ARE APPROXIMATE ONLY. REFER TO ARCHITECTURAL FLOOR PLAN FOR DRAIN LOCATIONS AND SLOPE TO DRAIN.
4. CONTRACTOR TO PROVIDE PROVISIONS FOR DE-WATERING PER THE GEOTECHNICAL REPORT.

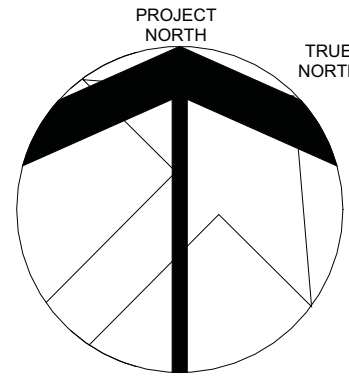
FOUNDATION LEGEND	
DESCRIPTION	SYMBOL
WEeping TILE	WT — WT — WT —
GAS LINE	GS — GS —
(C.J.) SAW CUT CONTROL JOINT	C.J. - - C.J.
FOOTING EXTENTS	_____
SLAB THICKENING	-----
WALL ABOVE	_____
STEP DOWN FOOTING	SDF ↑ — — — — — ↓ SDF

WALL SCHEDULE		
TYPE MARK	TYPE	VERTICAL REINFORCING
W1	140mm CONCRETE BLOCK WALL	
W2	190mm CONCRETE BLOCK WALL	15M @800 o.c
W2B	190mm CONCRETE BLOCK WALL w/ 100mm INSULATION +25mm CAVITY & 90mm BRICK	15M @800 o.c
W2A	190mm CONCRETE BLOCK WALL w/ 110mm INSULATION + 90mm BRICK	15M @800 o.c
W4	290mm CONCRETE BLOCK WALL	20M @800 o.c

FOOTING SCHEDULE			
MARK	SIZE	FOOTING TYPE	U/S FTG
F3	500 x 250mm	STRIP FOOTING	REFER TO PLAN
F1	700 x 250mm	STRIP FOOTING	REFER TO PLAN
EXISTING	EXISTING 600 x 250mm	STRIP FOOTING	REFER TO PLAN
EXISTING	EXISTING 600 x 300mm	STRIP FOOTING	REFER TO PLAN
EXISTING	EXISTING 1200 x 1200 x 300mm	SPREAD FOOTING	REFER TO PLAN

NOTE:

1. INFORMATION FROM EXISTING DRAWINGS PREPARED BY J.H. HOPPER CONSULTING ENGINEER, PROJECT #5802 DATED ON JANUARY 1958.
2. CONTRACTOR TO PREPARE AND SUBMIT FULL SHORING DRAWINGS FOR APPROVAL FOR ALL TEMPORARY SUPPORTS, PREPARED AND STAMPED BY PROFESSIONAL ENGINEER, PRIOR ANY REMOVAL.



03	REISSUED FOR TENDER	25-04-24
02	ISSUED FOR TENDER	25-03-28
01	ISSUED FOR PERMIT	24-12-18

NO. ISSUED DATE

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



ADDITION TO ALLAN A MARTIN PUBLIC SCHOOL

LEGAL DESCRIPTION
PART OF LOT 8 AND 9
REGISTERED PLAN E- 88
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEE



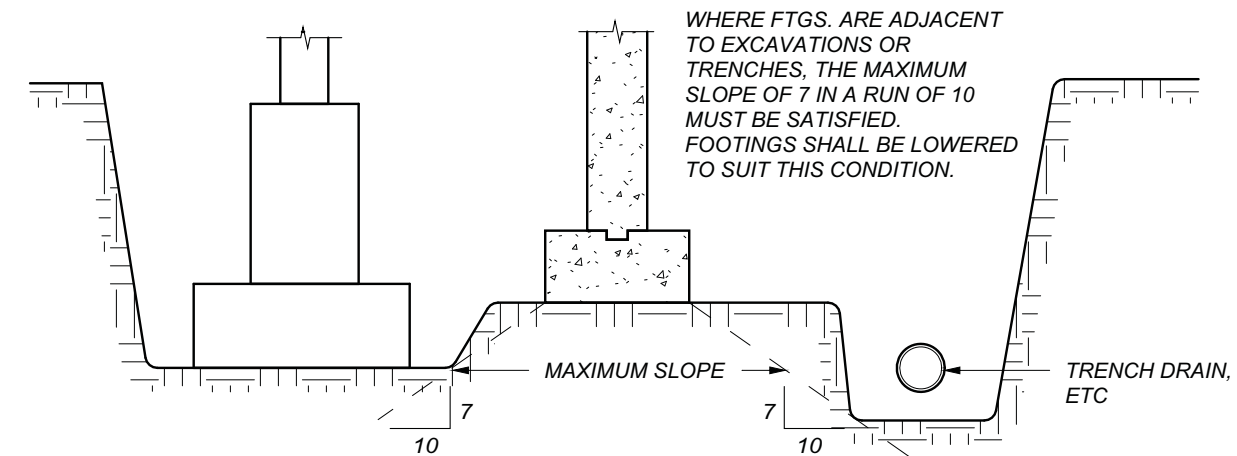
3546 SOUTH COMMON COURT,
MISSISSAUGA, ON L5L 2B1

FOUNDATION PLAN



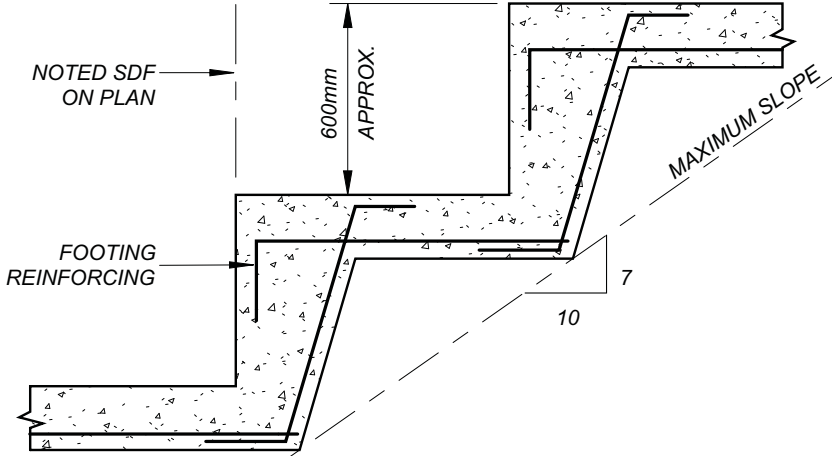
SCALE	PROJECT
As indicated	24184
DATE	11/18/2024
DRAWN	P.P.
CHECKED	C.O.H.D.
PRINT DATE	CAD FILE

S1.0



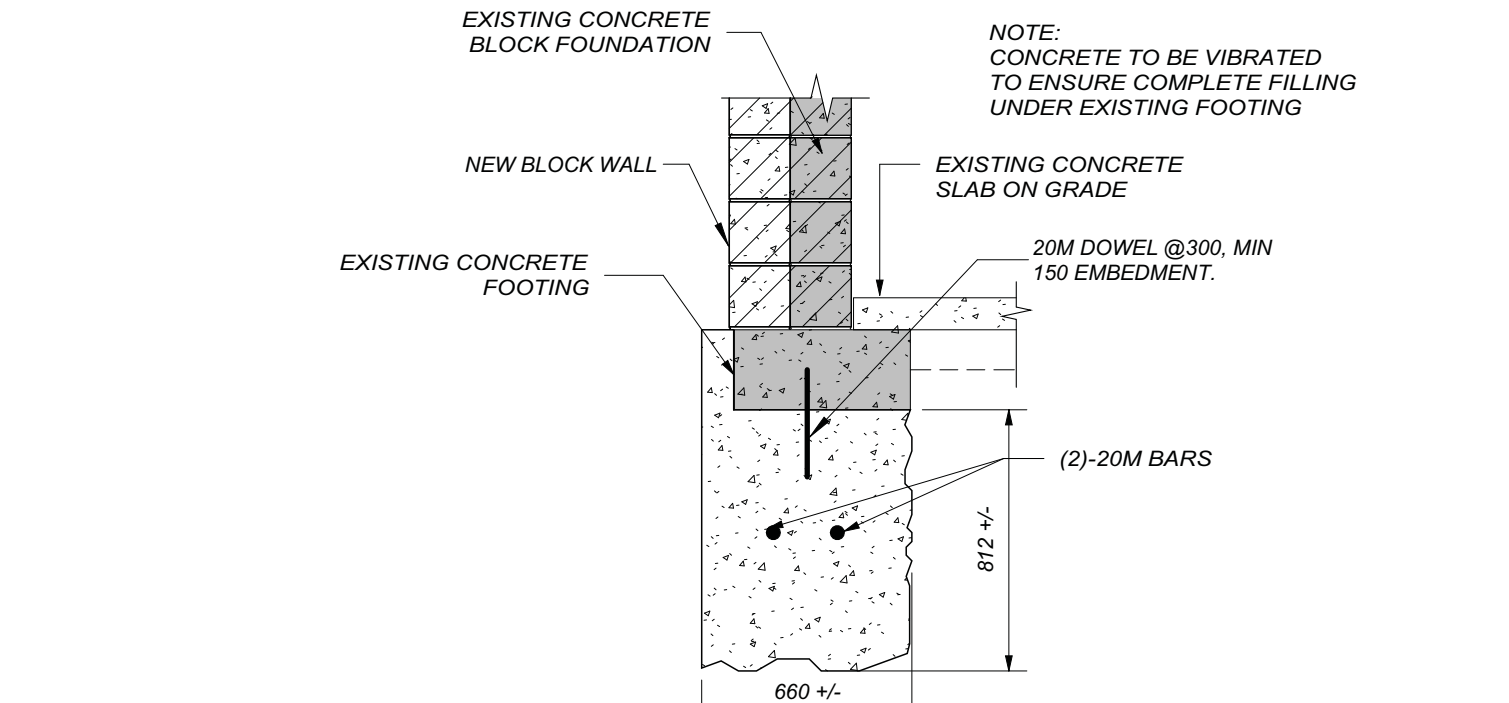
ELEVATIONS OF ADJACENT FOOTING AND EXCAVATIONS

NOT TO SCALE

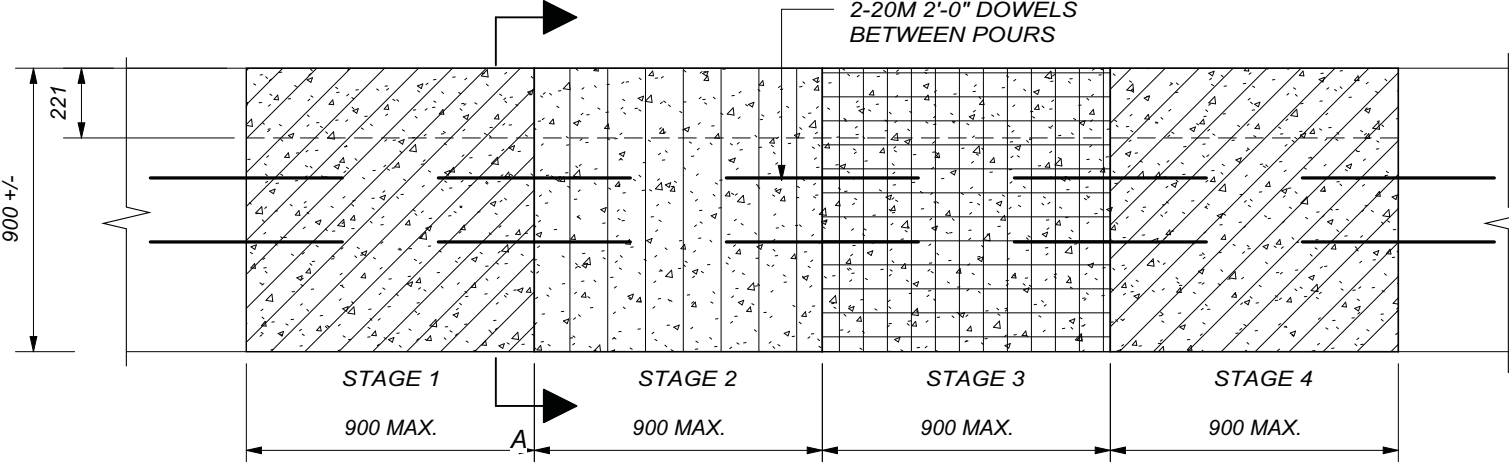


TYPICAL STEPPING OF WALL FOOTING DETAIL

NOT TO SCALE



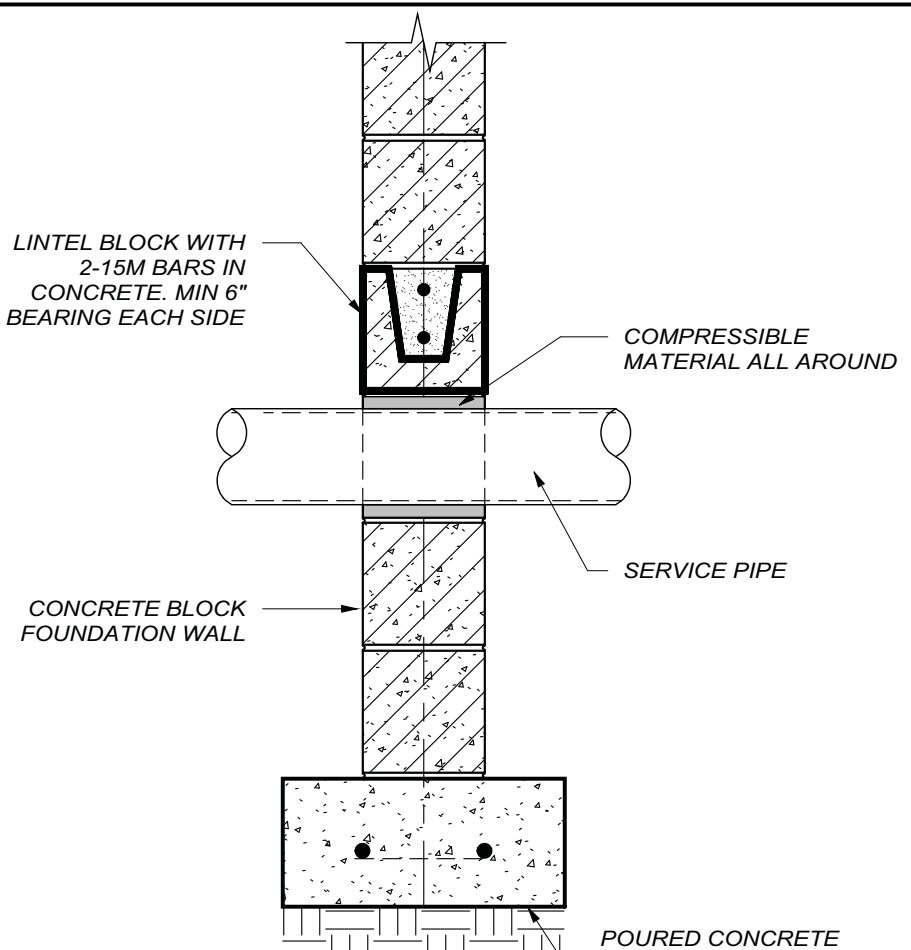
SECTION A-A



PLAN OF UNDERPINNING DETAIL

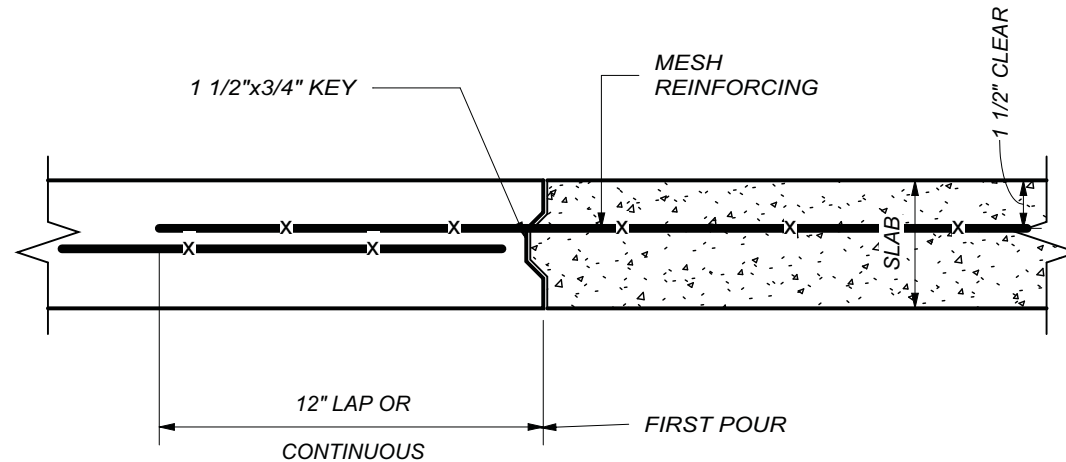
NOTES:

1. NEATLY EXCAVATE STAGE 1 AREAS.
2. FORM AND PLACE CONCRETE IN STAGE 1, ENSURING CONCRETE IS FILLED TIGHT TO UNDERSIDE OF EXISTING FOUNDATION.
3. REPEAT FOR STAGE 2 AREAS.
4. REPEAT FOR STAGE 3 AREAS.



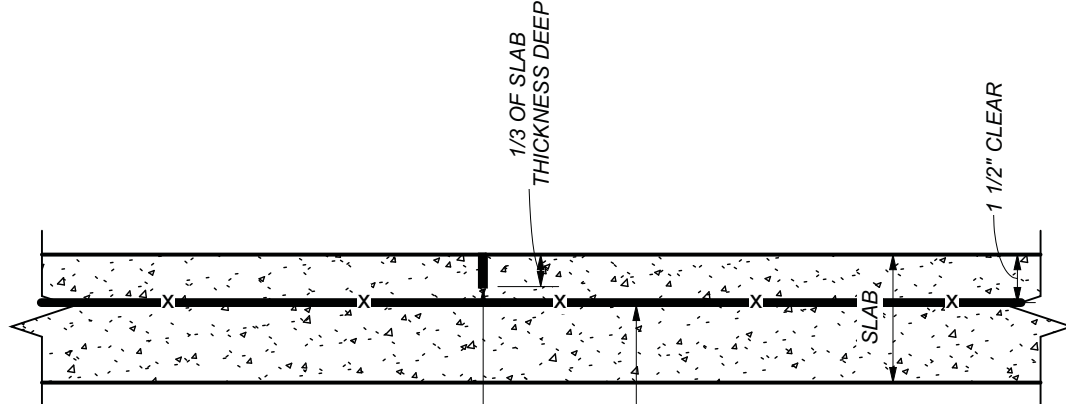
PIPE PENETRATION DETAIL

NOT TO SCALE



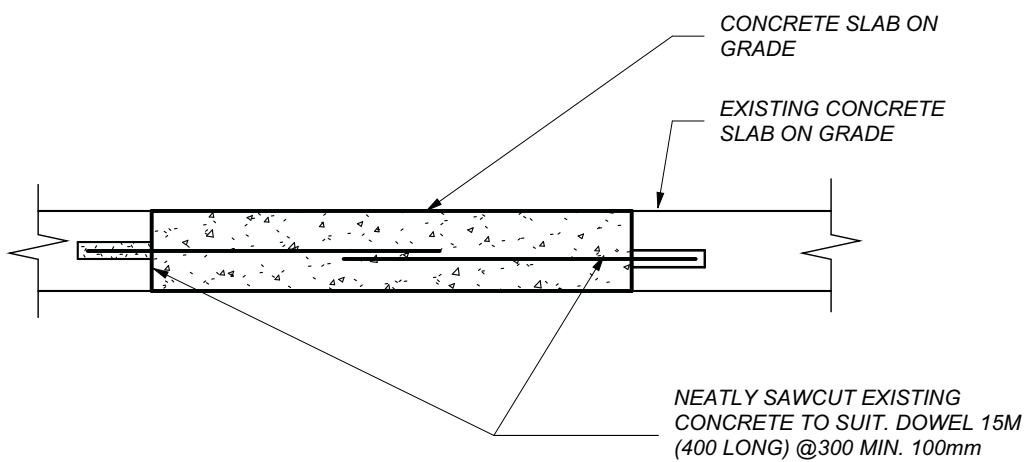
TYPICAL SLAB-ON-GRADE CONSTRUCTION JOINT

NOT TO SCALE



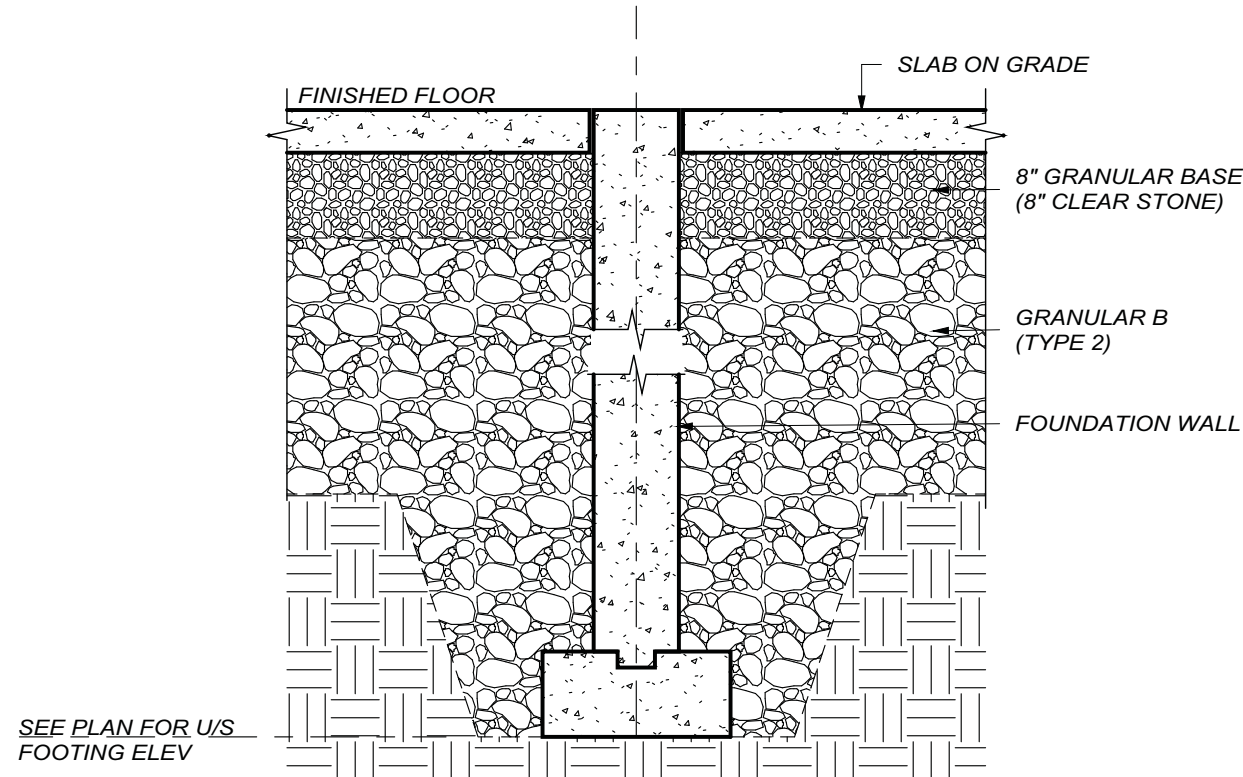
TYPICAL SAW-CUT CONTROL IN SLAB-ON-GRADE

NOT TO SCALE



SLAB REPAIR DETAIL

N.T.S.

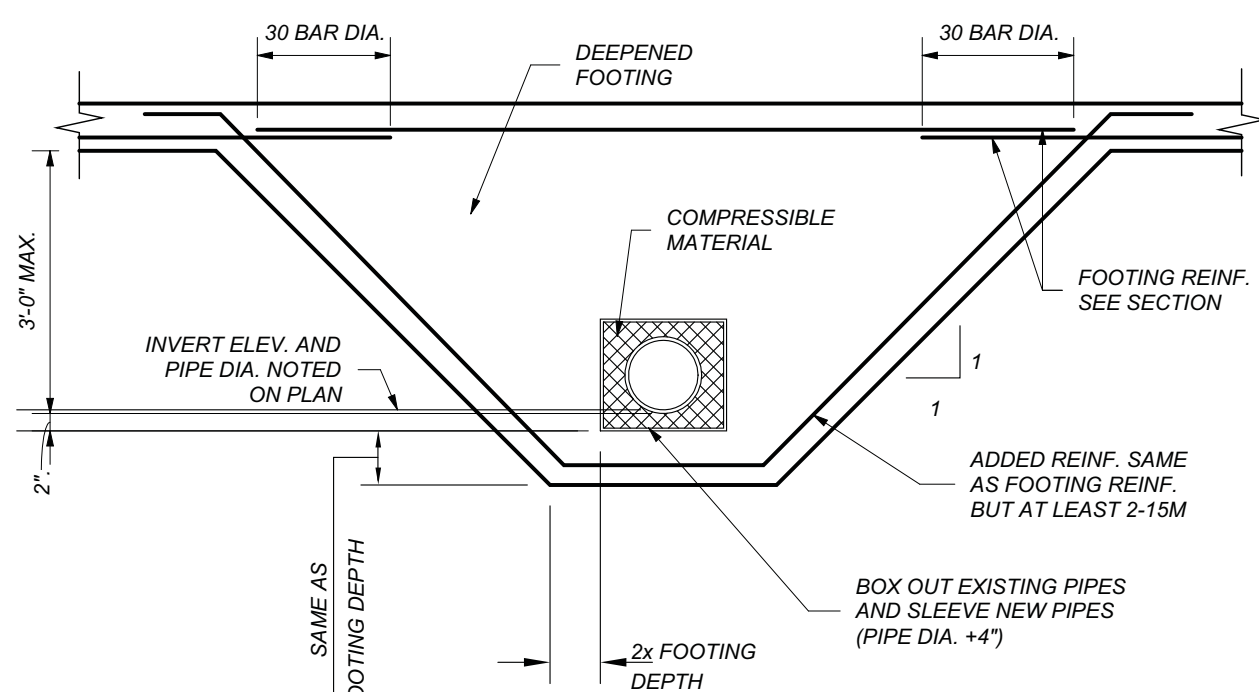


TYPICAL EXCAVATION AND BACKFILLING AT FOUNDATION WALLS

NOT TO SCALE

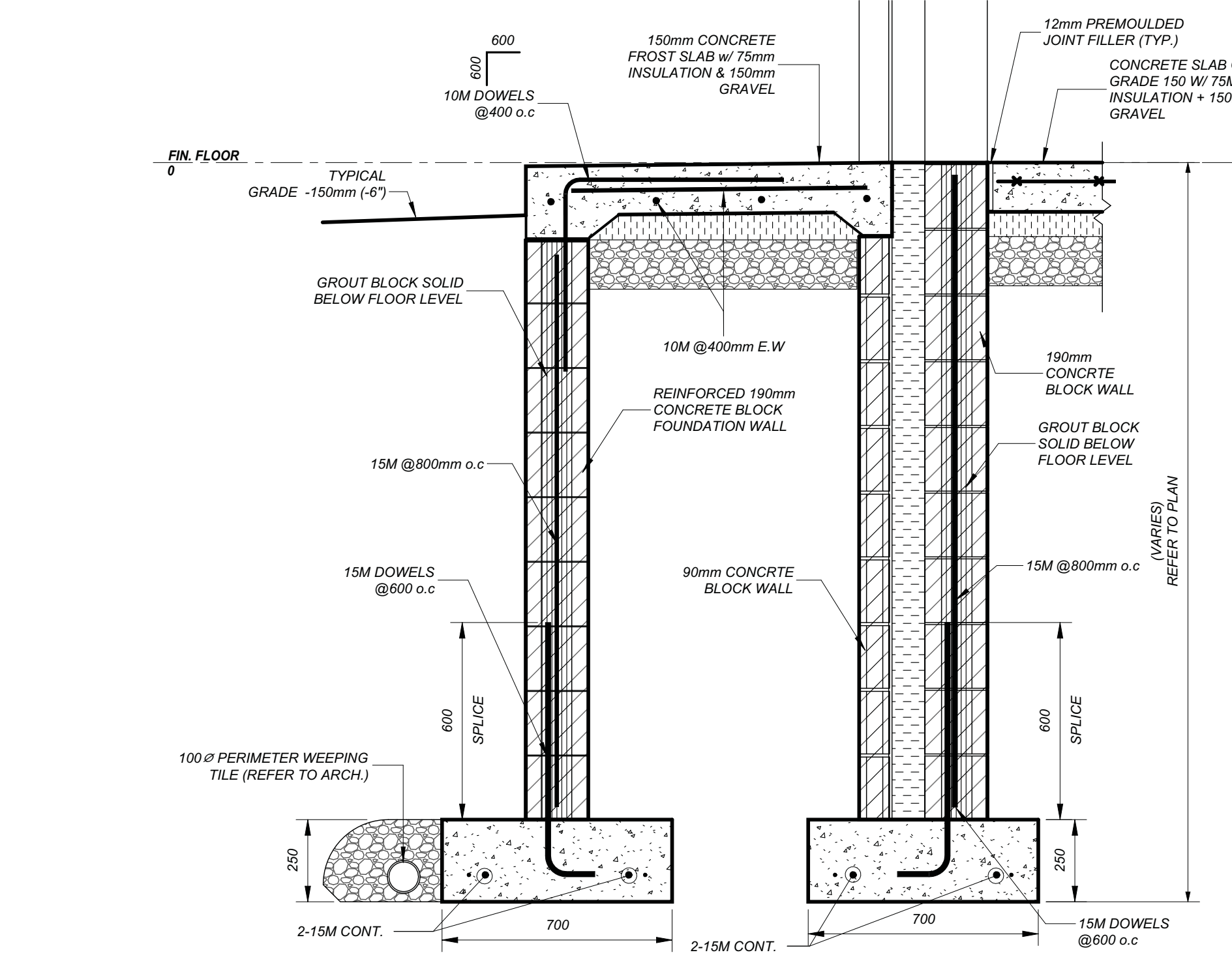
(REQUIRED BOTH SIDES OF ALL INTERIOR AND EXTERIOR FOUNDATION WALLS) (REINFORCING NOT SHOWN FOR CLARITY)

NOTE: NATIVE SOIL IS UNSUITABLE FOR BACKFILL



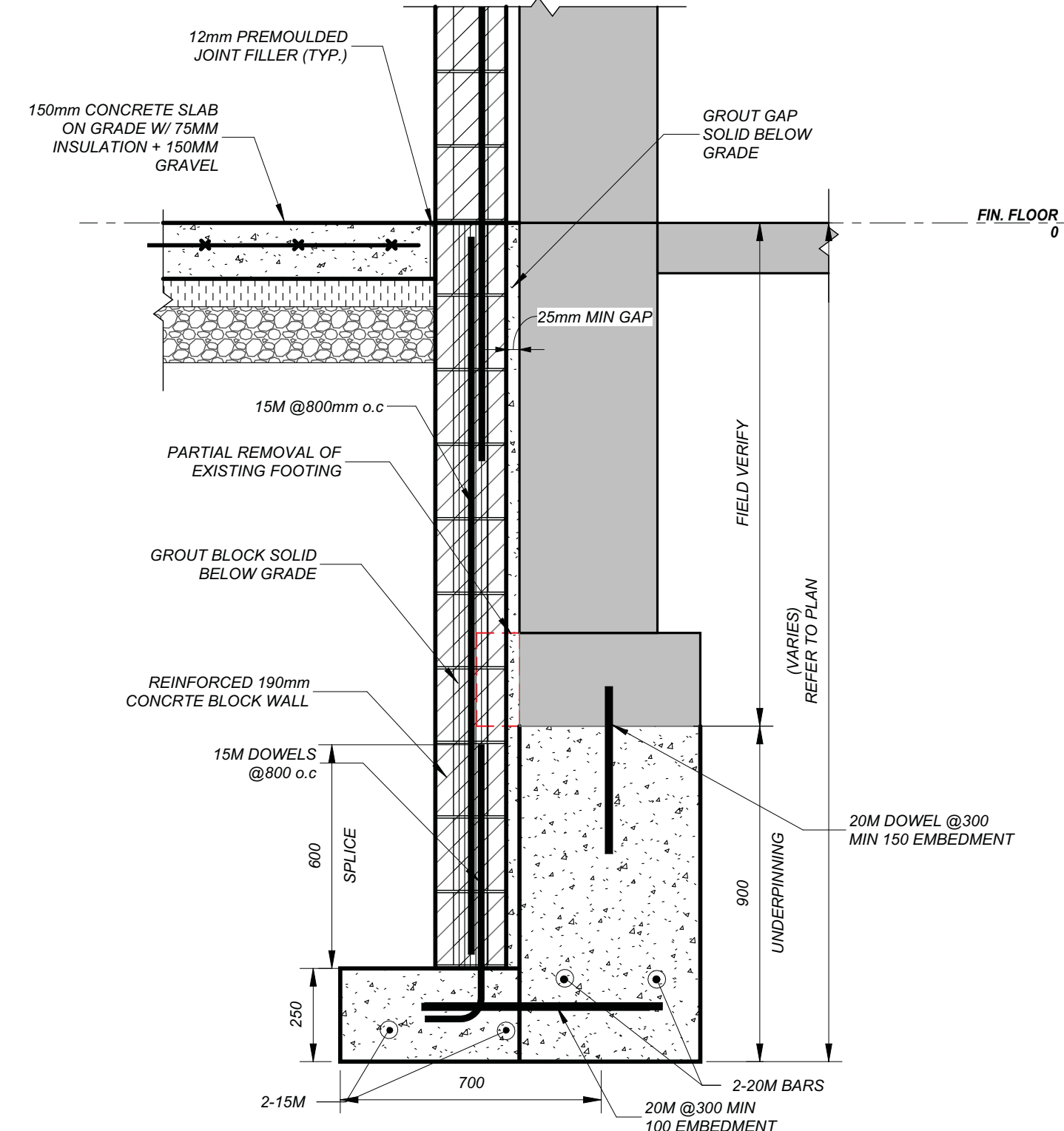
SERVICE PIPE FOOTING DETAIL

N.T.S.



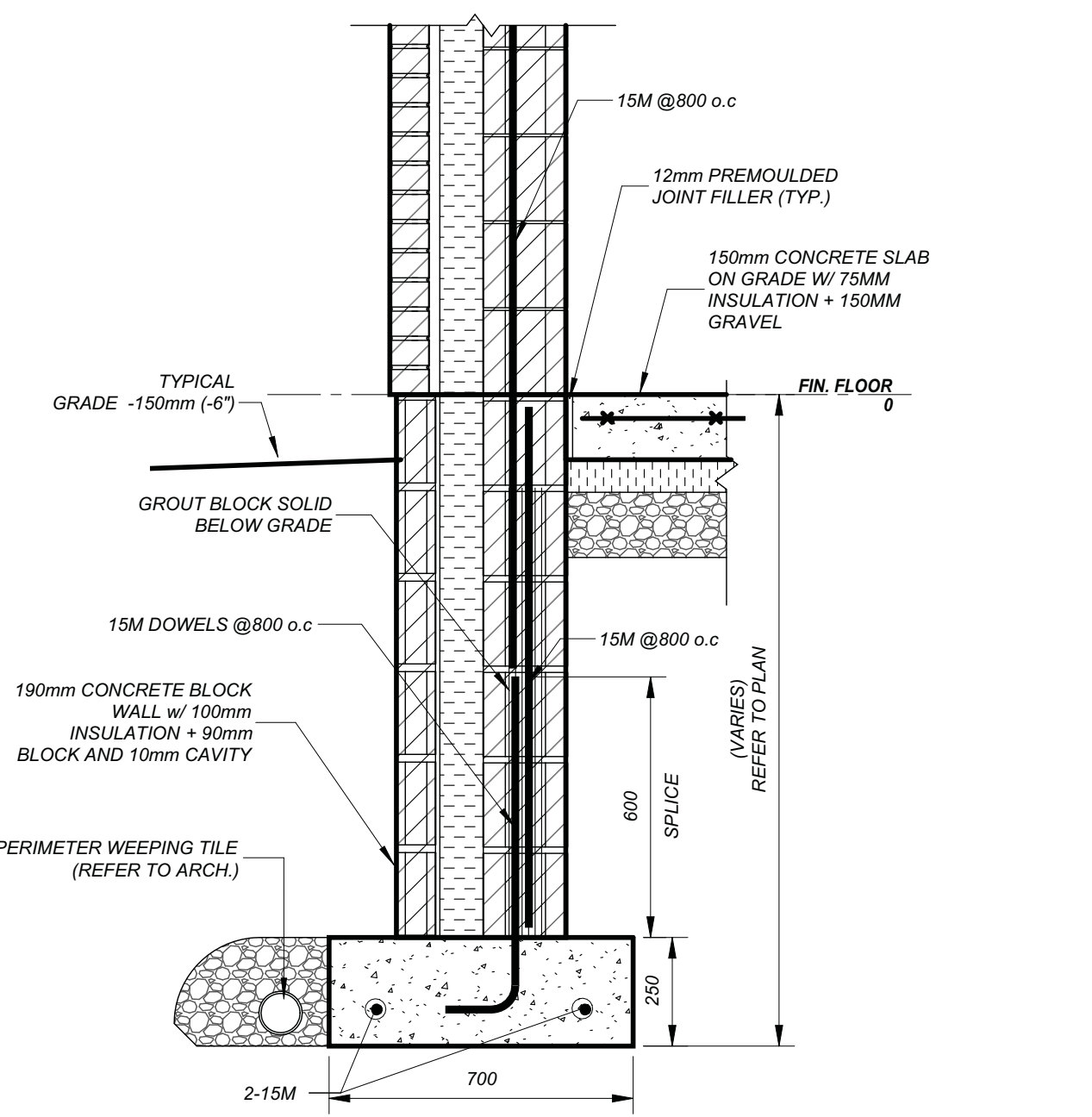
FROST SLAB TYP. DETAIL

SCALE: 1:15 (S1.0)



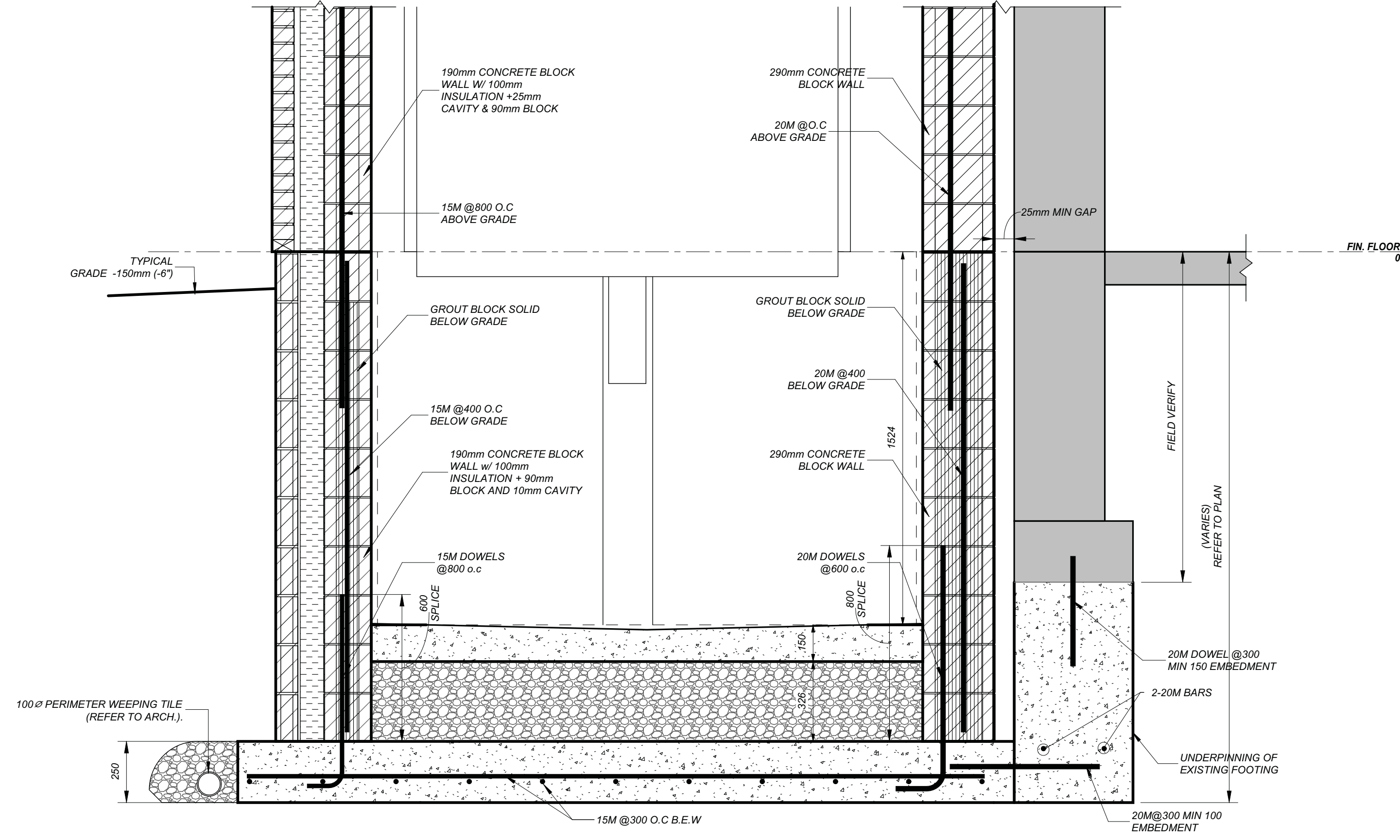
SECTION 1

SCALE: 1:15 (S1.0)



SECTION 2

SCALE: 1:15 (S1.0)

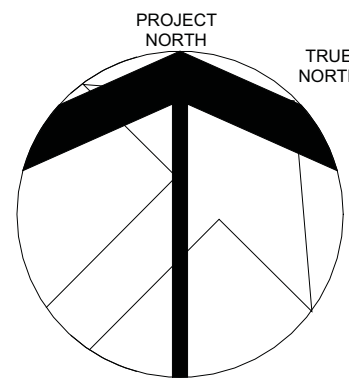


SECTION 3

SCALE: 1:15 (S1.0)

NOTE:

1. INFORMATION FROM EXISTING DRAWINGS PREPARED BY J.H. HOPPER CONSULTING ENGINEER, PROJECT #5802 DATED ON JANUARY 1958.
2. CONTRACTOR TO PREPARE AND SUBMIT FULL SHORING DRAWINGS FOR APPROVAL FOR ALL TEMPORARY SUPPORTS, PREPARED AND STAMPED BY PROFESSIONAL ENGINEER, PRIOR ANY REMOVAL.



03	REISSUED FOR TENDER	25-04-24
02	ISSUED FOR TENDER	25-03-28
01	ISSUED FOR PERMIT	24-12-18
NO	ISSUED	DATE

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300 YORK BLVD, HAMILTON ON L8R 3K6

ADDITION TO ALLAN A MARTIN PUBLIC SCHOOL

LEGAL DESCRIPTION
PART OF LOT 8 AND 9
REGISTERED PLAN E- 88
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEE



3549 SOUTH COMMON COURT,
MISSISSAUGA, ON L5L 2B1

FOUNDATION SECTIONS AND TYP. DETAILS



105 - 1039 BRONCK WAY, OAKVILLE ON L6H 3V8
(905) 810-8288 info@hossackarch.com

SCALE	As indicated	PROJECT	24184
DATE	11/28/24	P.P.	
DRAWN	C.O.H.D.	DRAWING	S2.0
CHECKED			
PRINT DATE			
CAD FILE			



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Peel District School Board

SECOND FLOOR FRAMING PLAN



SCALE As indicated	PROJECT 24184
DATE 11/18/2024	
DRAWN P.P	DRAWING S3.0
CHECKED C.O/H.D	
PRINT DATE	
CAD FILE	



2. TOP OF FLOOR ELEVATION = +3480 (101.70mm FFE).
3. TOP OF STEEL = 3287 mm UNLESS NOTED OTHERWISE.
4. REFER TO DRAWING S0.0 FOR NOTES, S.0 FOR STANDARD DETAILS AND S0.0 CONCRETE BLOCK WALL REINFORCING.
5. REFER TO ARCHIT, MECH AND ELEC DWGS. FOR SIZE AND LOCATION OF ALL OPENINGS IN BLOCK WALLS. SEE LINTEL SCHEDULE DRAWINGS S.2.0 FOR LINTEL SIZES.
6. PROVIDE TEMPORARY SUPPORT UNDER ALL BEAMS UNTIL THEY ARE LATERALLY SUPPORTED.
7. PROVIDE STEEL LINTELS FOR ALL OPENINGS AS SHOWN ON ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS.
8. COORDINATE WITH MECHANICAL FOR ALL OPENINGS IN FLOORS & WALLS.
9. COORDINATE PLUMBING WITH CONCRETE BLOCK WALL REINFORCING.

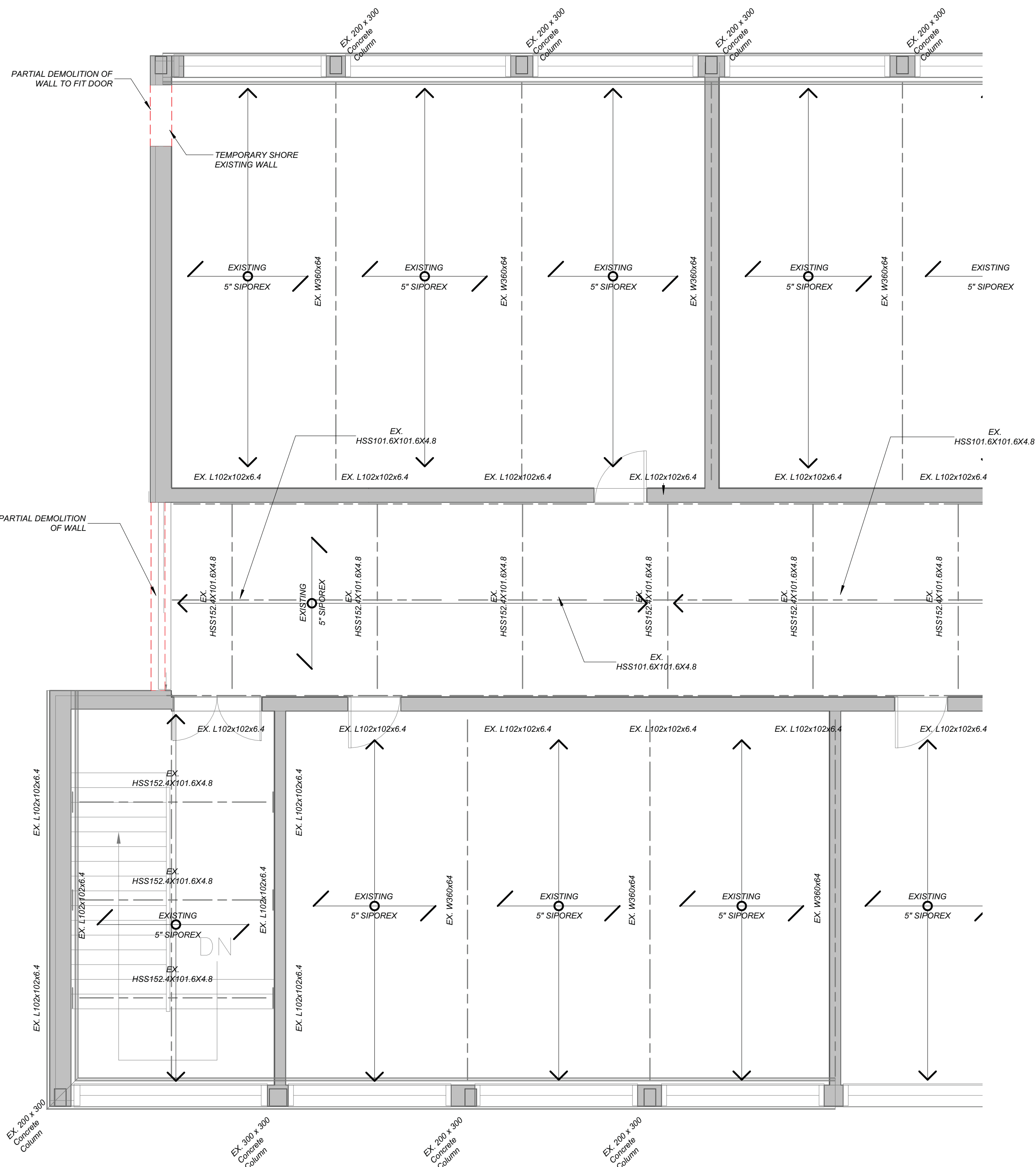
SLAB LEGEND

D1	 83mm CAST-IN-PLACE CONCRETE c/w 38mm 22GA STEEL DECK AND 152x152 MW 18.7 x MW 18.7 WWF
D2	 38mm 22GA STEEL DECK
D3	 38mm 18GA STEEL DECK

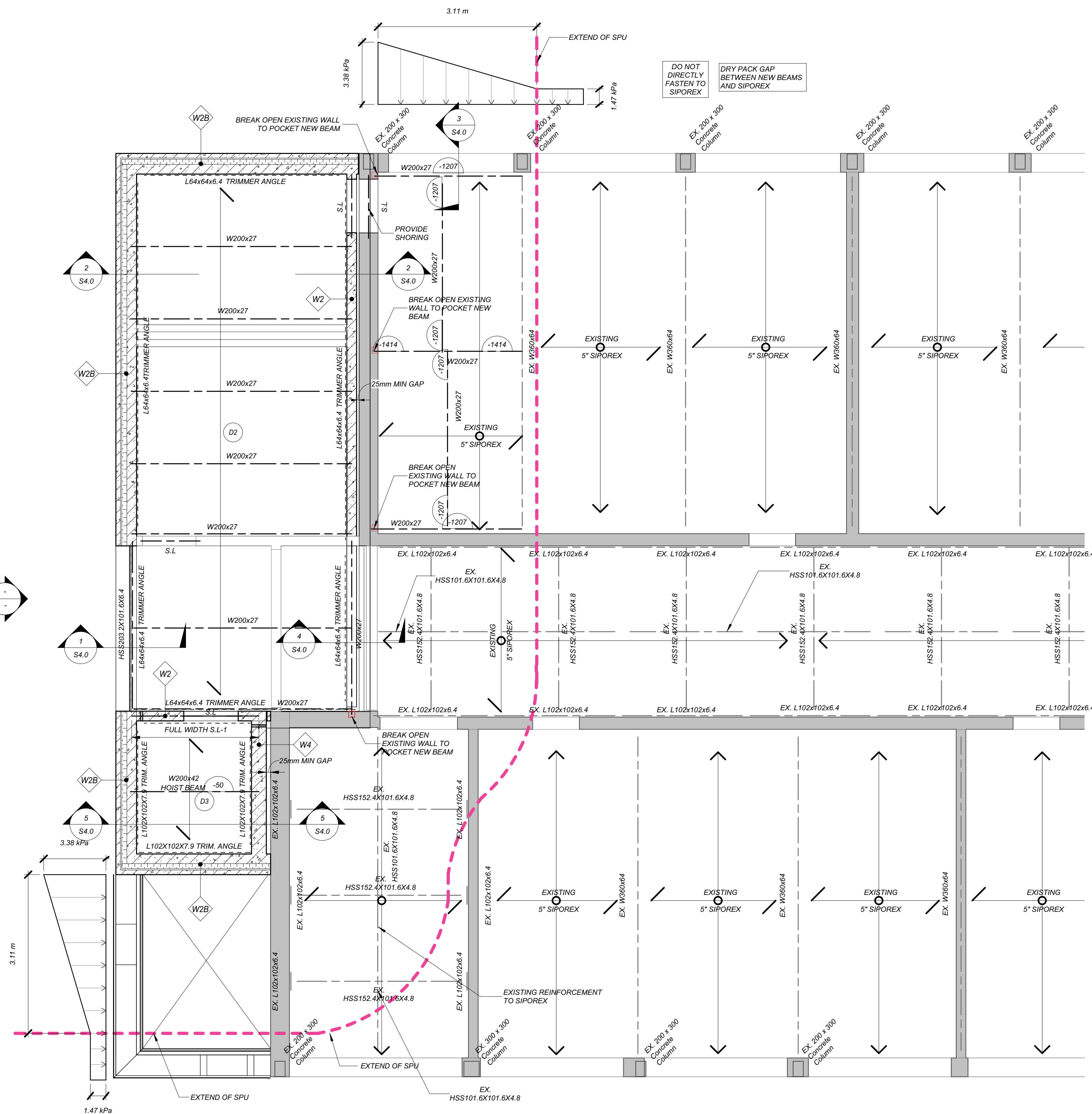


NOTE:

1. INFORMATION FROM EXISTING DRAWINGS PREPARED BY J.H HOPPER CONSULTING ENGINEER, PROJECT #5802 DATED ON JANUARY 1958.
2. CONTRACTOR TO PREPARE AND SUBMIT FULL SHORING DRAWINGS FOR APPROVAL FOR ALL TEMPORARY SUPPORTS, PREPARED AND STAMPED BY PROFESSIONAL ENGINEER, PRIOR ANY REMOVAL.



ROOF FRAMING PLAN - DEMOLITION
SCALE 1:50



ROOF FRAMING PLAN - PROPOSED
SCALE 1:50

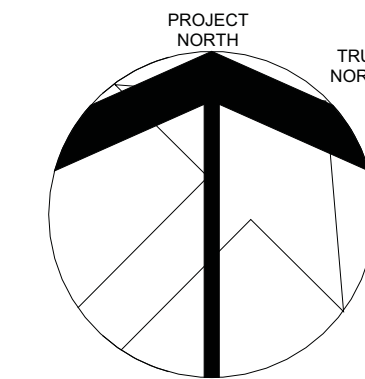
ROOF FRAMING NOTES

- TOP OF NEW ROOF ELEVATION = 7850 (102.78m).
- TOP OF STEEL = 7850mm UNLESS NOTED OTHERWISE.
- REFER TO DRAWING S0.0 FOR NOTES, S4.0 FOR STANDARD DETAILS AND S0.0 CONCRETE BLOCK WALL REINFORCING.
- REFER TO ARCH'L, MECH'L AND ELEC'L DWGS. FOR SIZE AND LOCATION OF ALL OPENINGS IN BLOCK WALLS. SEE LINTEL SCHEDULE DRAWINGS S2.2 FOR LINTEL SIZES.
- PROVIDE TEMPORARY SUPPORT UNDER ALL BEAMS UNTIL THEY ARE Laterally SUPPORTED.
- PROVIDE STEEL LINTELS FOR ALL OPENINGS AS SHOWN ON ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS.
- COORDINATE WITH MECHANICAL FOR ALL OPENINGS IN FLOORS & WALLS.
- COORDINATE PLUMBING WITH CONCRETE BLOCK WALL REINFORCING.

WALL SCHEDULE		
TYPE MARK	TYPE	VERTICAL REINFORCING
W1	140mm CONCRETE BLOCK WALL	
W2	190mm CONCRETE BLOCK WALL	15M @800 o.c
W2B	190mm CONCRETE BLOCK WALL W/ 100mm INSULATION +25mm CAVITY & 90mm BRICK	15M @800 o.c
W2A	190mm CONCRETE BLOCK WALL W/ 110mm INSULATION + 90mm BRICK	15M @800 o.c
W4	290mm CONCRETE BLOCK WALL	20M @600 o.c

SLAB LEGEND

D1	83mm CAST-IN-PLACE CONCRETE o/w 38mm 22GA STEEL DECK AND 152x152 MW 18.7 x MW 18.7 WWF
D2	38mm 22GA STEEL DECK
D3	38mm 18GA STEEL DECK



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ADDITION TO ALLAN A MARTIN PUBLIC SCHOOL

LEGAL DESCRIPTION
PART OF LOT 8 AND 9
REGISTERED PLAN E- 88
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEE



3549 SOUTH COMMON COURT,
MISSISSAUGA, ON L5L 2B1

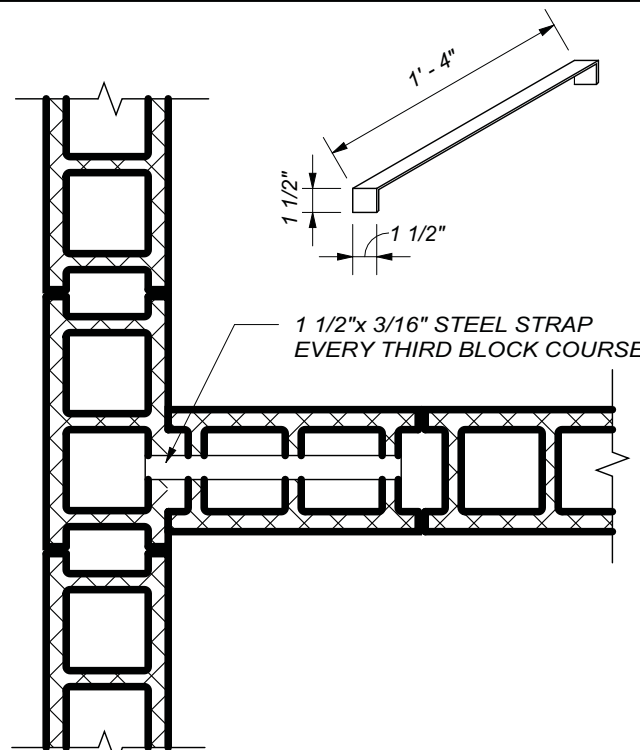
ROOF FRAMING PLAN



NOTE:

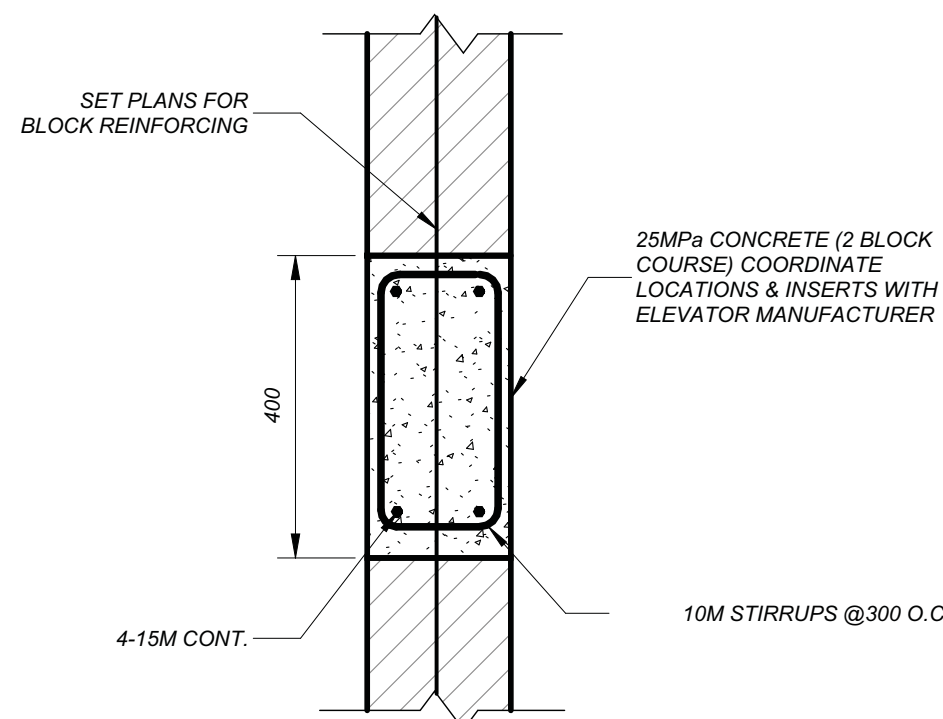
- INFORMATION FROM EXISTING DRAWINGS PREPARED BY J.H. HOPPER CONSULTING ENGINEER, PROJECT #5802 DATED ON JANUARY 1958.
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SCALE	As indicated	PROJECT	24184
DATE	11/18/2024	DRAWING	
DRAWN	P.P.		
CHECKED	C.O.H.D.		
PRINT DATE			
CAD FILE			



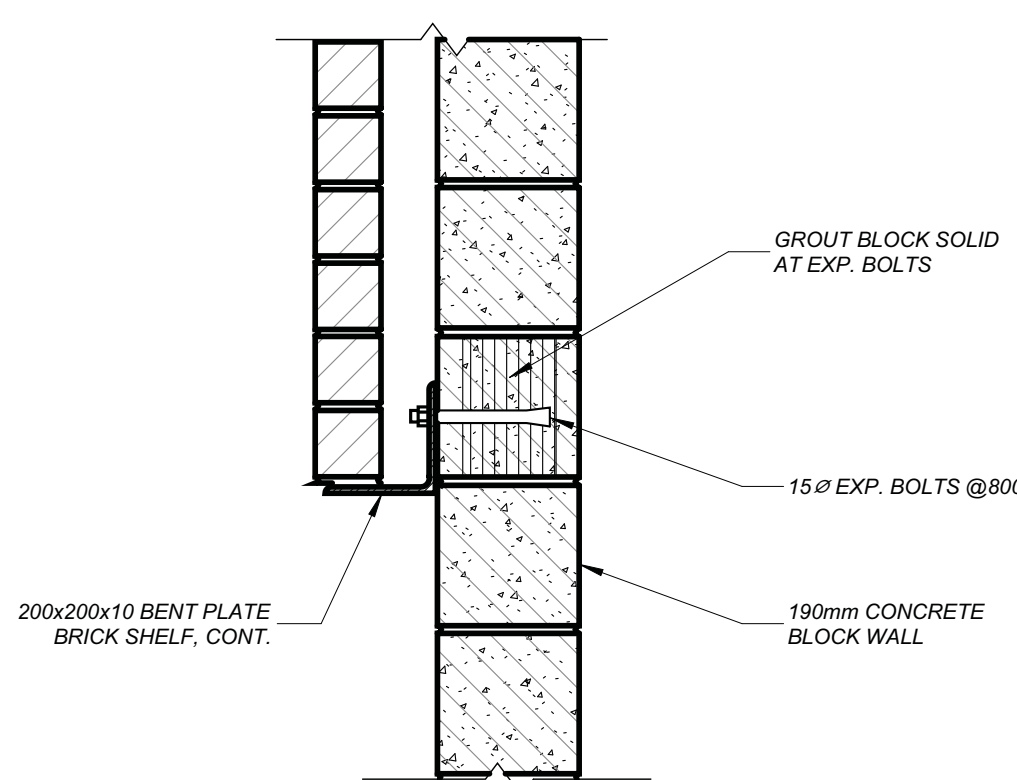
TYPICAL INTERSECTION
OF CONCRETE BLOCK WALLS

NOT TO SCALE



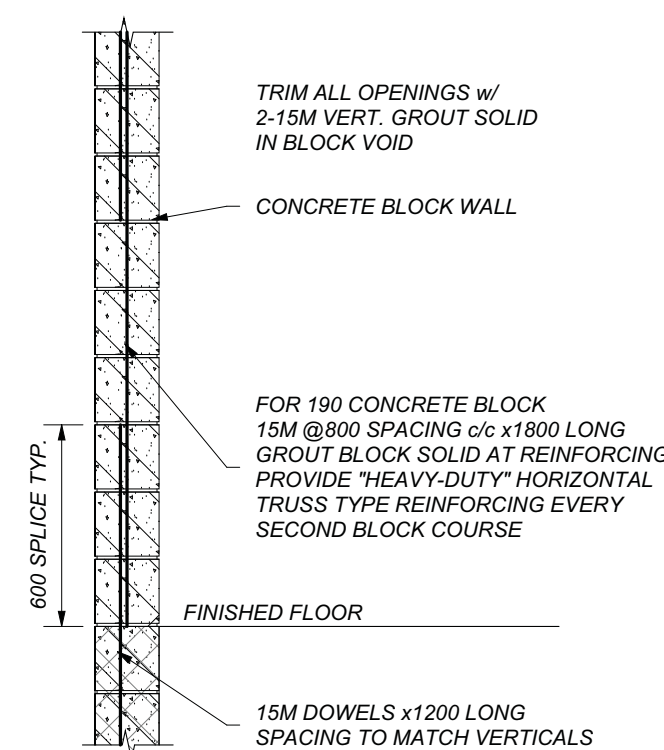
TYPICAL ELEVATOR BOND BEAM

NOT TO SCALE



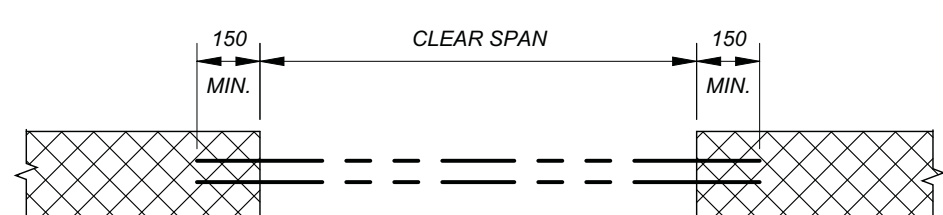
TYPICAL BRICK SHELF DETAIL

NOT TO SCALE



TYP. BLOCK WALL REINFORCING

N.T.S.



CLEAR SPAN	140 WALL	190 WALL
UP to 1200	2Ls 75x65x8	2Ls 90x90x8
1200 to 1800	2Ls 90x65x8	2Ls 125x90x8
1800 TO 2100	2Ls 90x65x0	2Ls 150x90x8

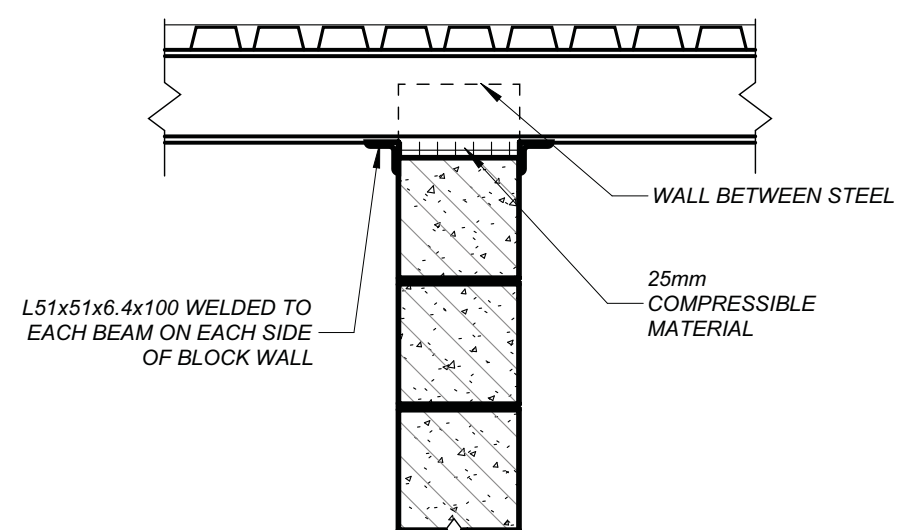
CLEAR SPAN	240 WALL	290 WALL
UP to 1200	2Ls 100x100x8	3Ls 90x90x8
1200 to 1800	2Ls 150x100x8	3Ls 125x90x8
1800 TO 2100	2Ls 150x100x8	3Ls 150x90x8

FOR LINTELS IN 90 VENEER, USE 1 ANGLE OF THAT NOTED
FOR 190 WALL ON SIMILAR SPAN.

DOUBLE ANGLES TO BE STITCH WELDED BACK TO BACK.
LINTELS TO HAVE A BOLTED CONNECTION TO COLUMNS.
LINTELS LARGER THAN 2100 TO HAVE BEARING PLATE TYPE A
TERMINATE LINTEL PLATES 10mm SHY OF OPENING

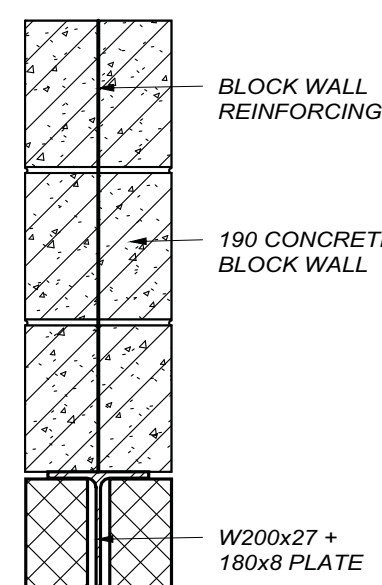
TYPICAL STEEL LINTEL SCHEDULE

N.T.S.

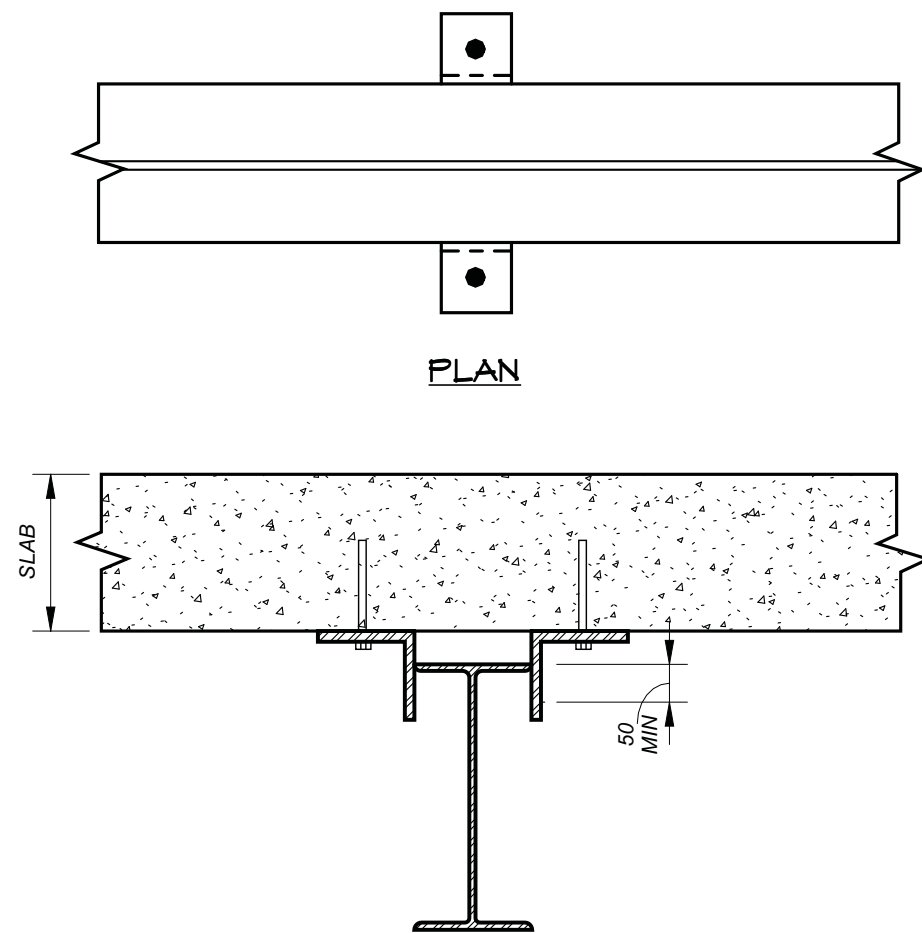


BRACING OF PARTITION WALLS AT
UNDERSIDE OF STEEL

NOT TO SCALE



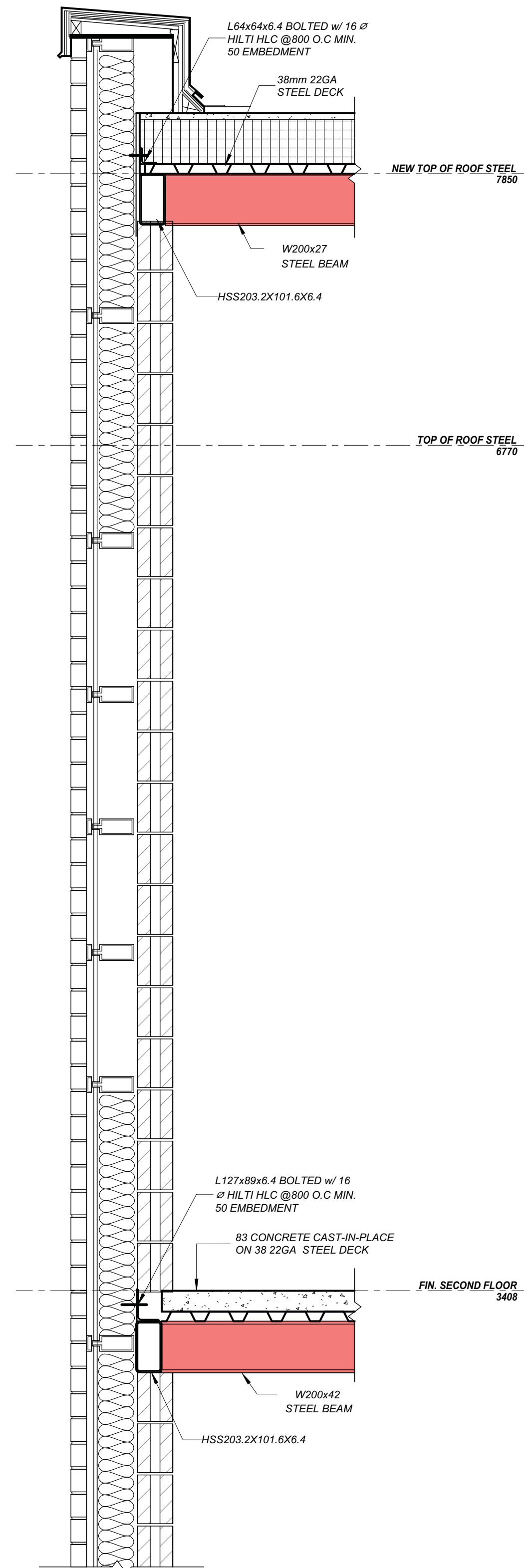
S.L-1



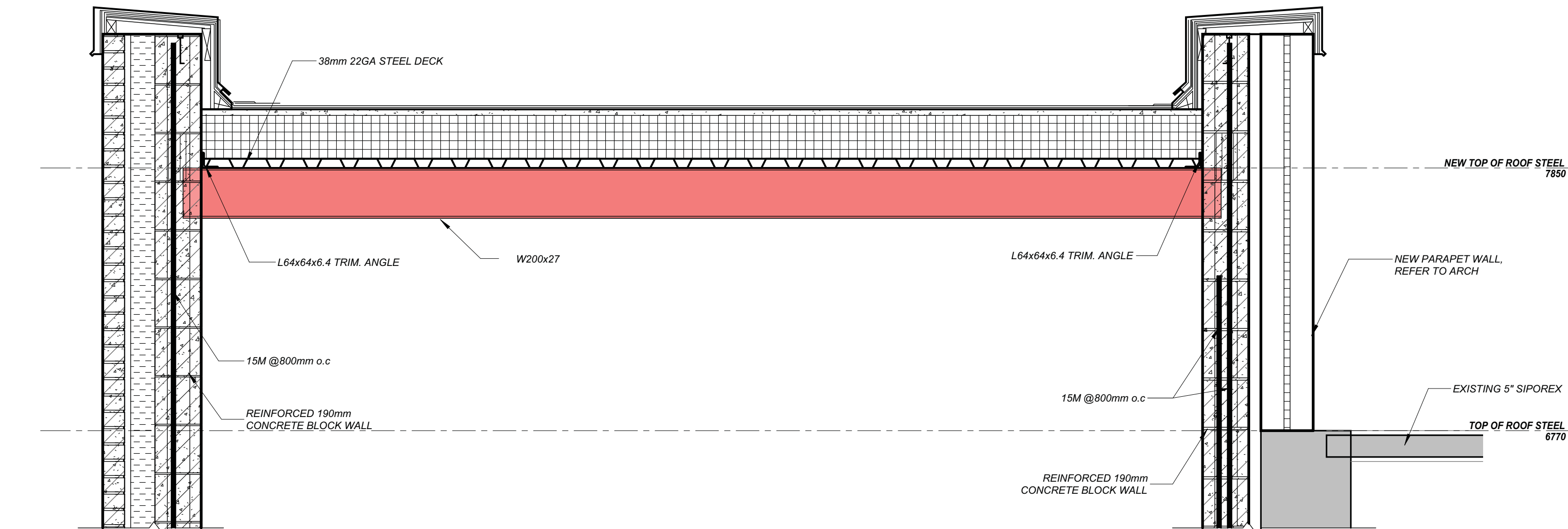
LATERAL CLIP DETAIL

BRACING OF STEEL BEAM AT
UNDERSIDE OF CONCRETE SLAB
(PRECAST OR CAST-IN-PLACE)

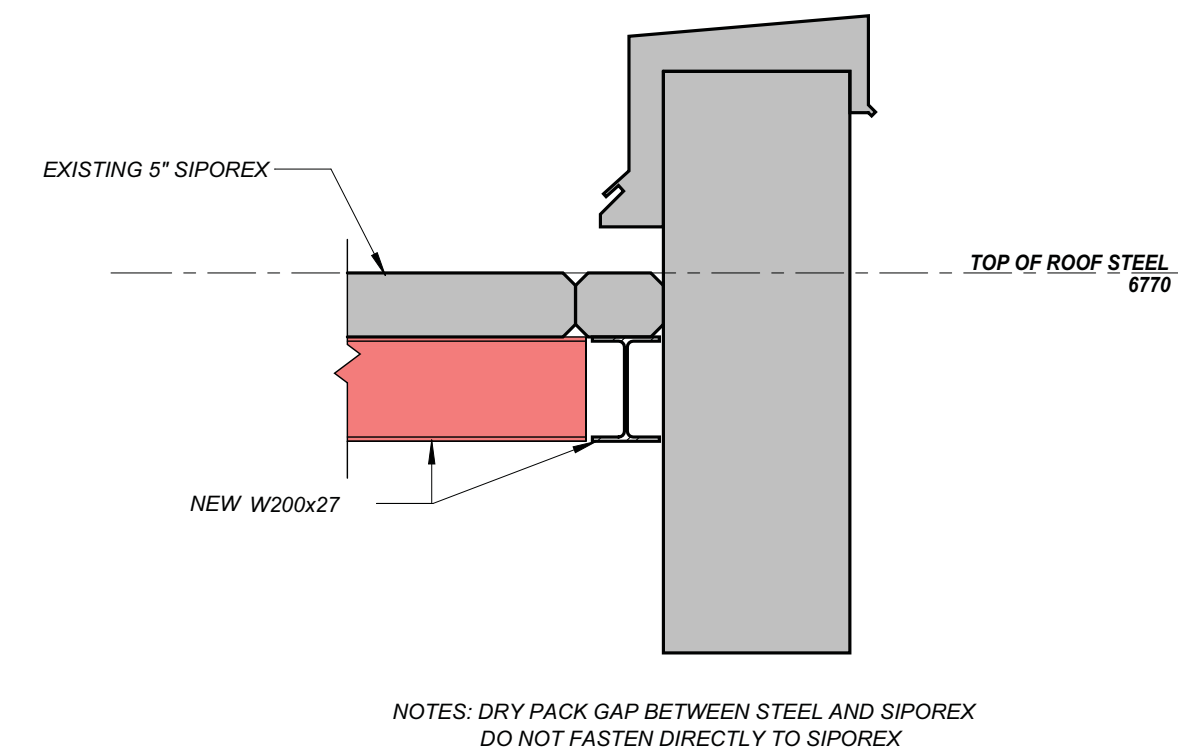
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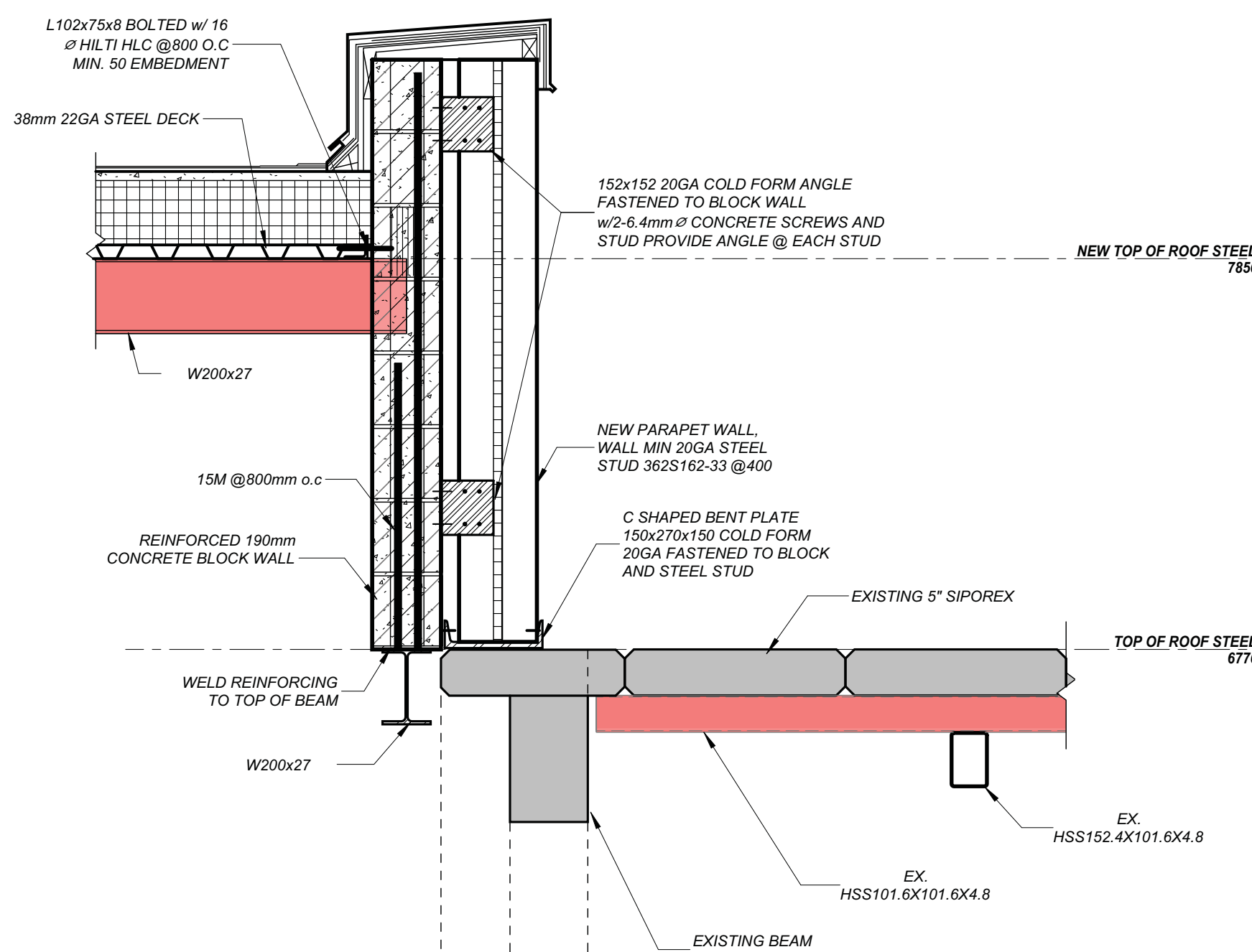
SECTION 1
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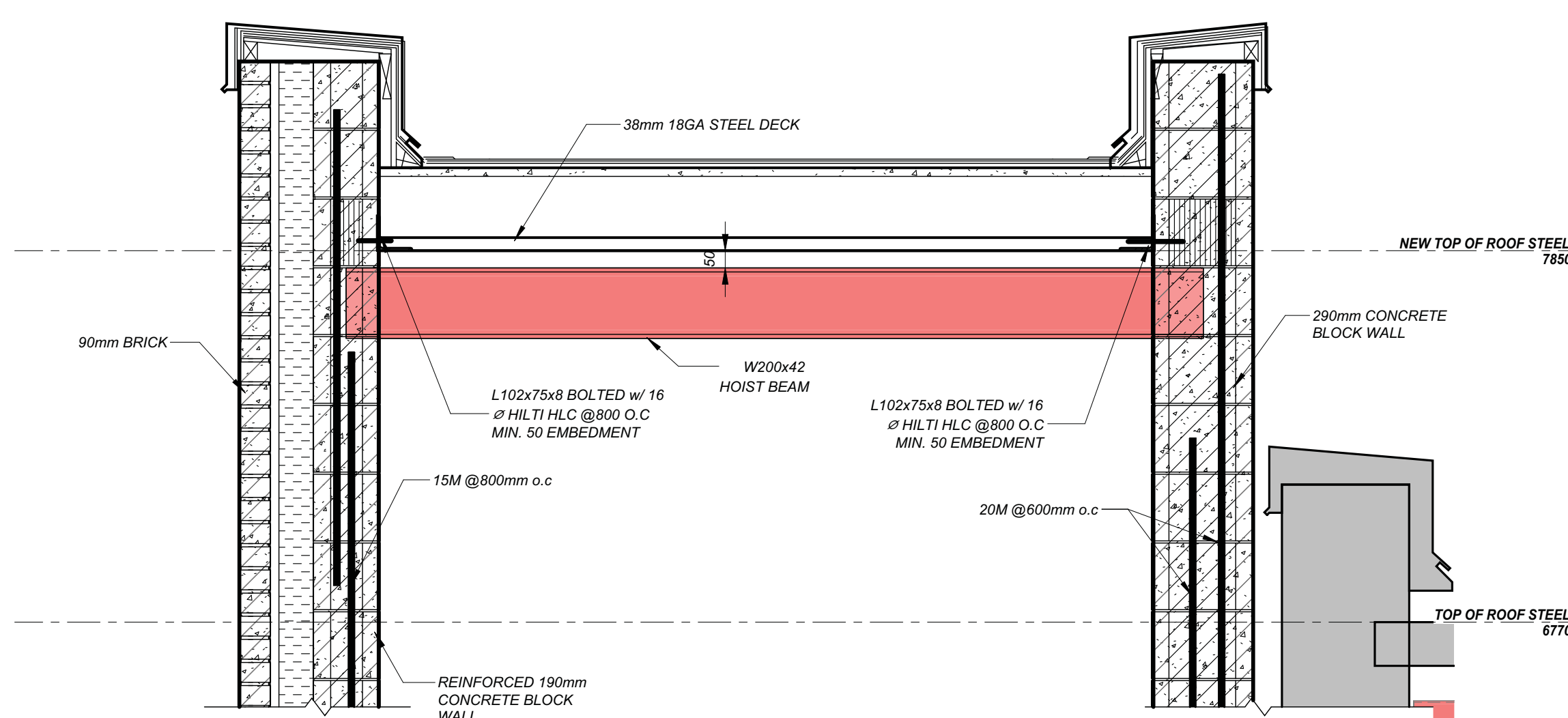
SECTION 2
SCALE: 1:15 S3.1



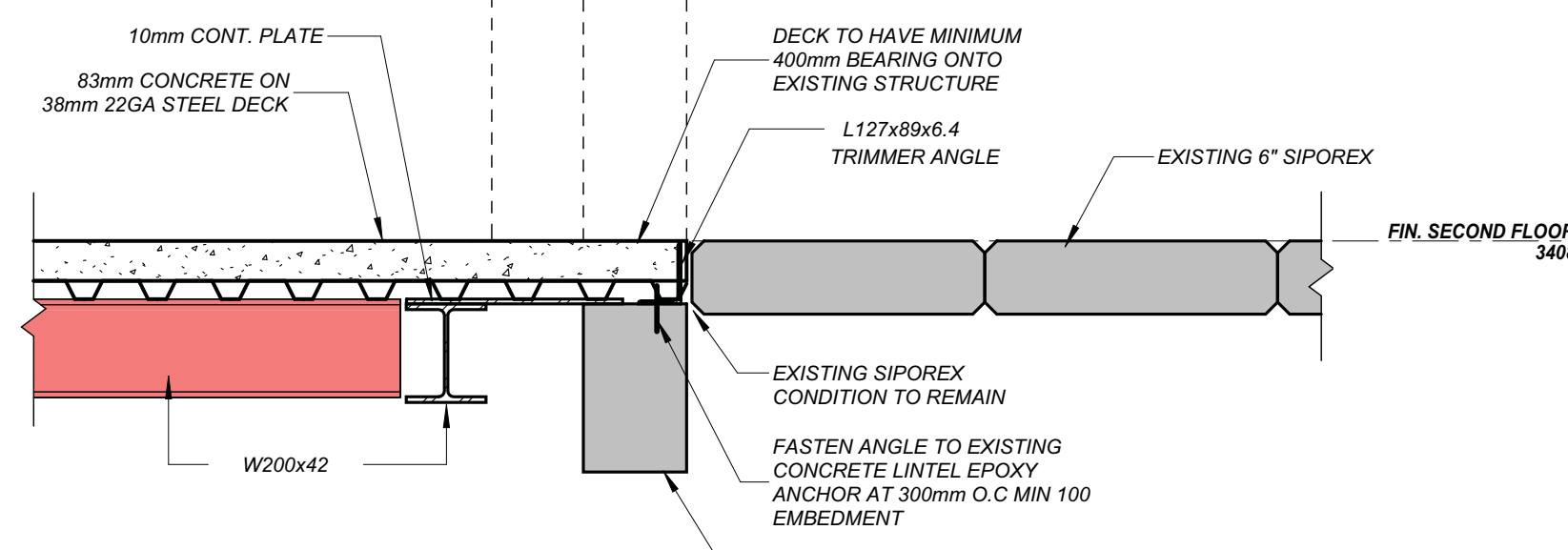
SECTION 3
SCALE: 1:15 S3.1



SECTION 4
SCALE: 1:15 S3.0



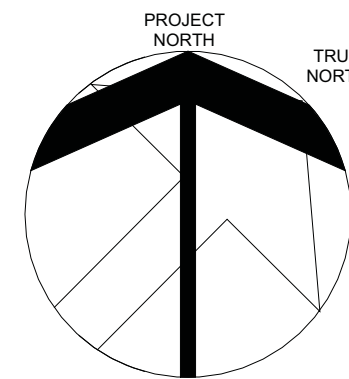
SECTION 5
SCALE: 1:15 S3.1



SECTION 6
SCALE: 1:15 S3.0

NOTE:

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01	ISSUED FOR PERMIT	24-12-18
NO	ISSUED	DATE

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300 YORK BLVD, HAMILTON ON L8R 3K6

ADDITION TO ALLAN A
MARTIN PUBLIC SCHOOL

LEGAL DESCRIPTION
PART OF LOT 8 AND 9
REGISTERED PLAN E- 88
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEE



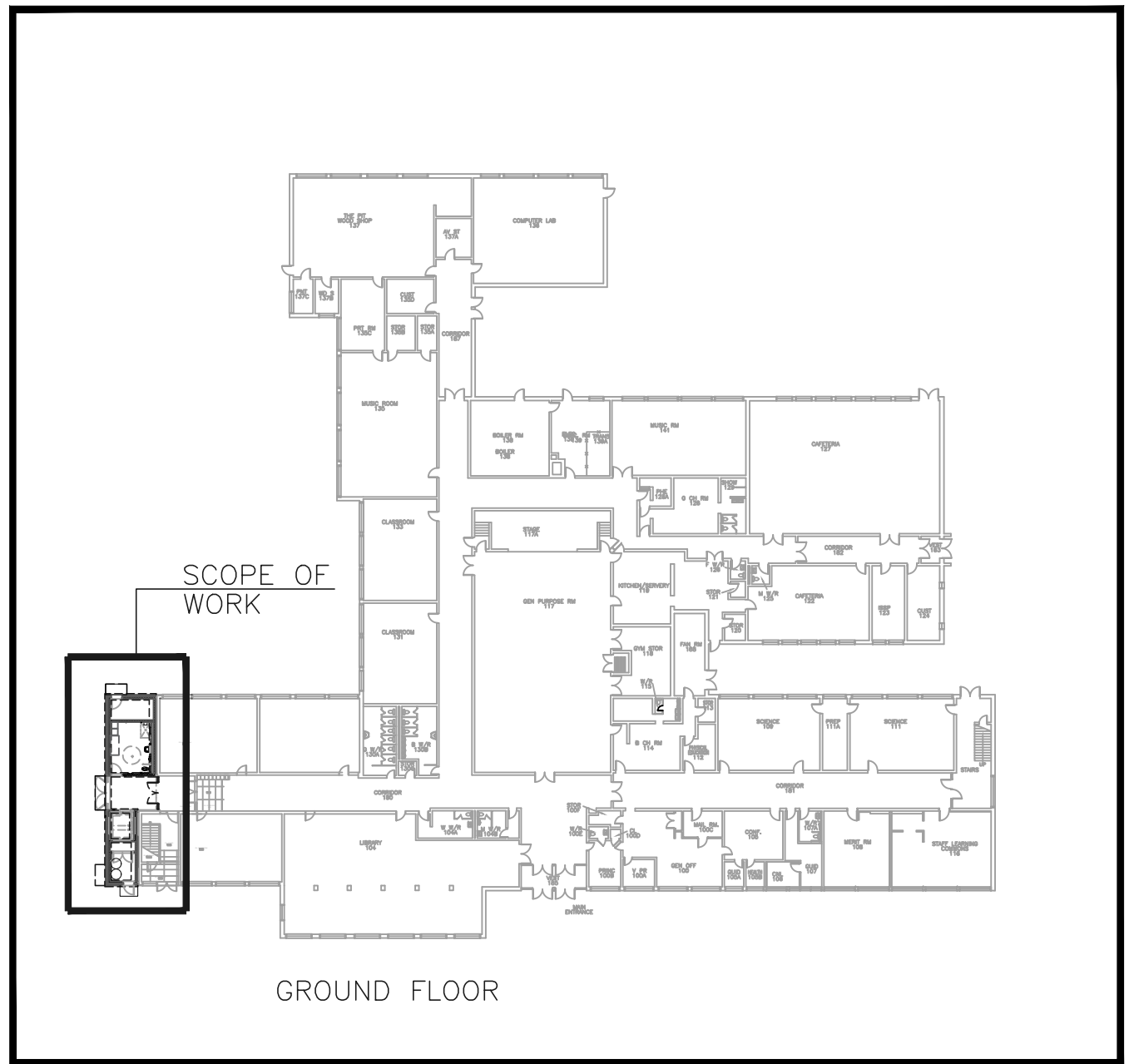
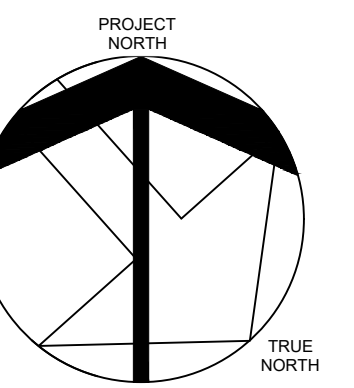
3546 SOUTH COMMON COURT,
MISSISSAUGA, ON L5L 2B1

FRAMING
SECTIONS AND
TYP. DETAILS

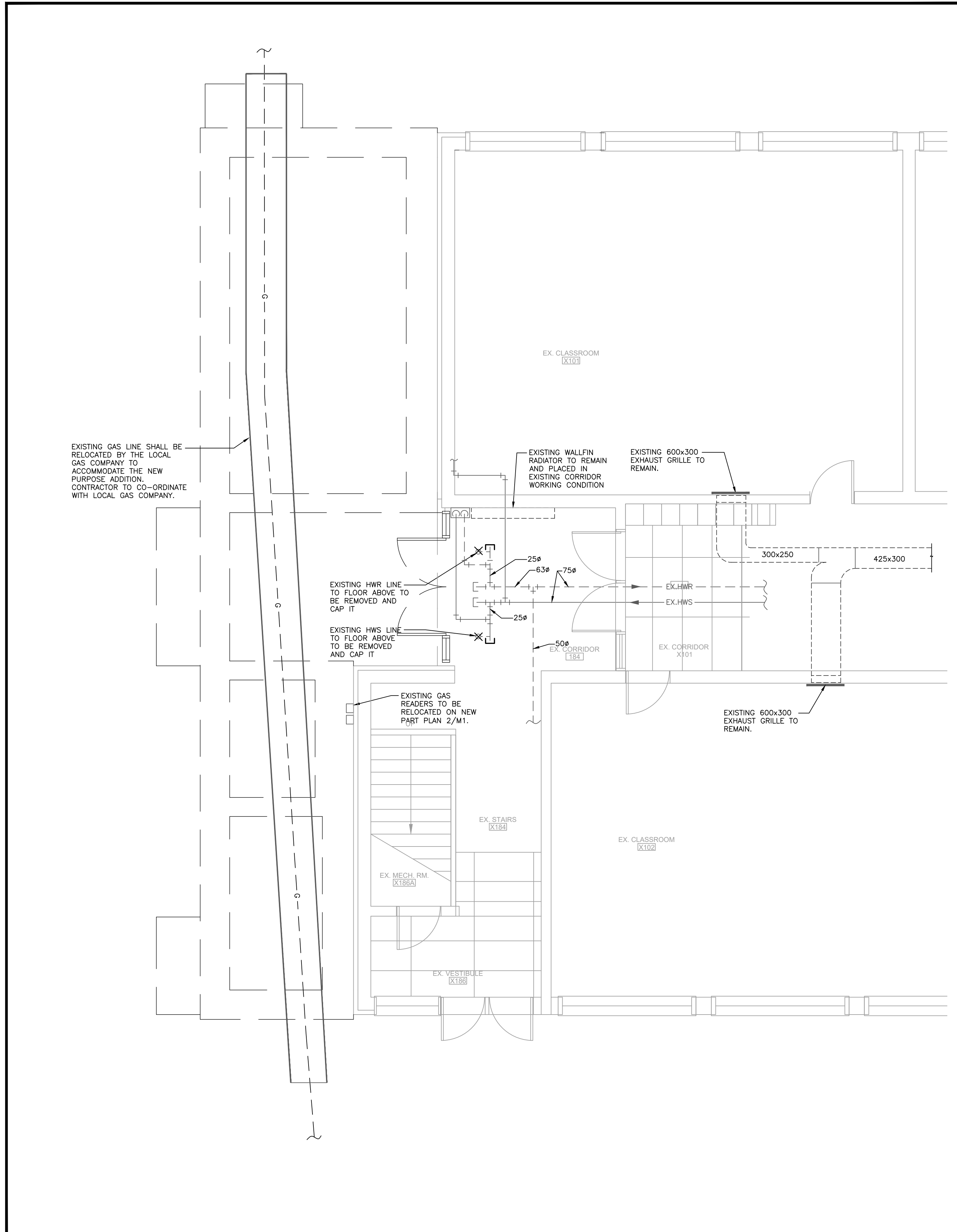


105 - 1039 BROADWAY, OAKVILLE ON L6H 3V8
(905) 810-8288 info@hossackarch.com

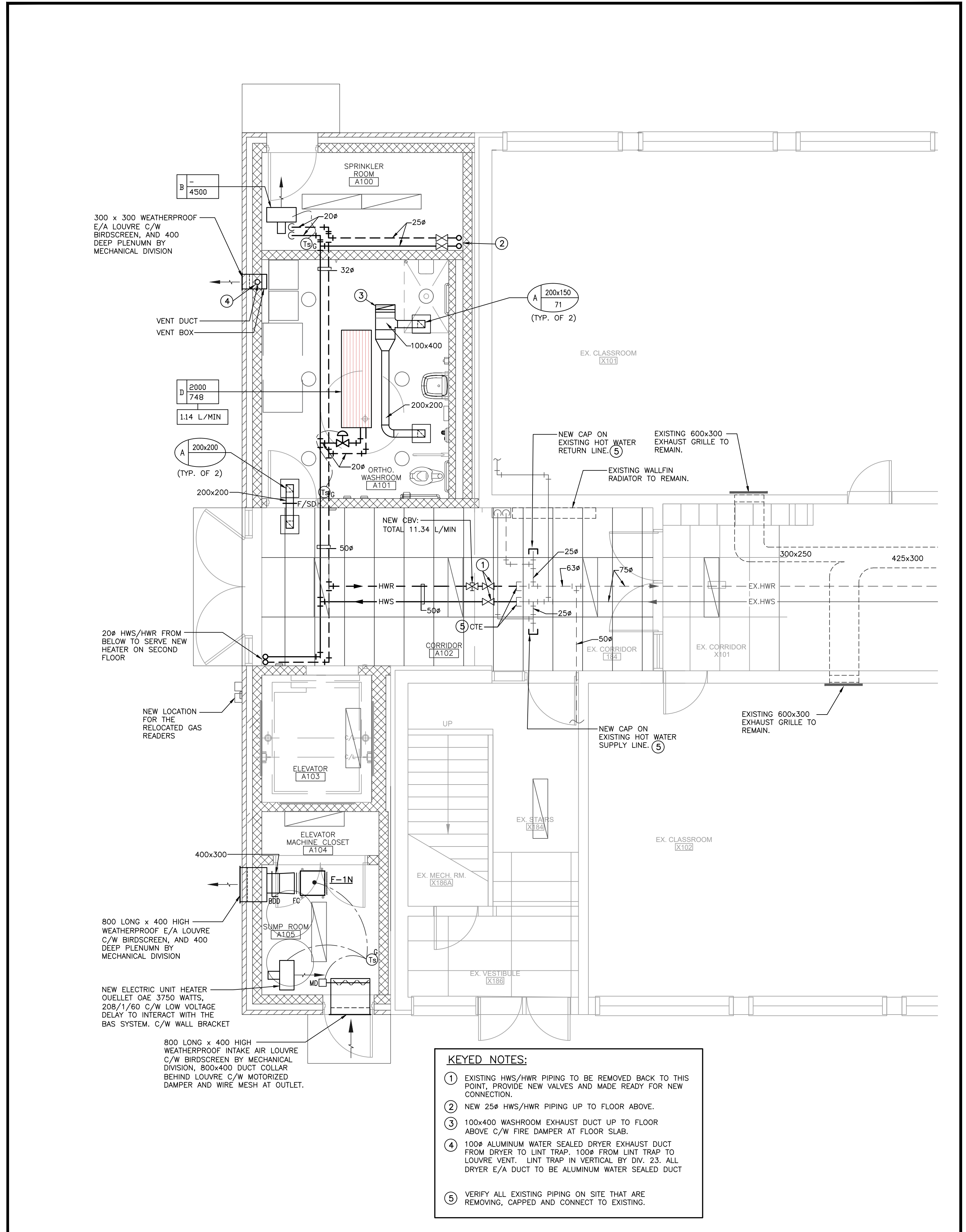
SCALE	PROJECT
As Indicated	24184
DATE	DRAWING
12/11/24	S4.0
DRAWN	AUTHOR
CHECKED	CHECKER
PRINT DATE	CAD FILE



1 KEY PLANS - GROUND FLOOR
SCALE: N.T.S.



3 PARTIAL GROUND FLOOR - DEMOLITION
M1 SCALE: 1:50



2 PARTIAL GROUND FLOOR - NEW
M1 SCALE: 1:50

02	ISSUED FOR TENDER	04-25-2025
01	ISSUED FOR PERMIT	12-18-2024
NO	ISSUED	DATE

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LEGAL DESCRIPTION
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CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEEL

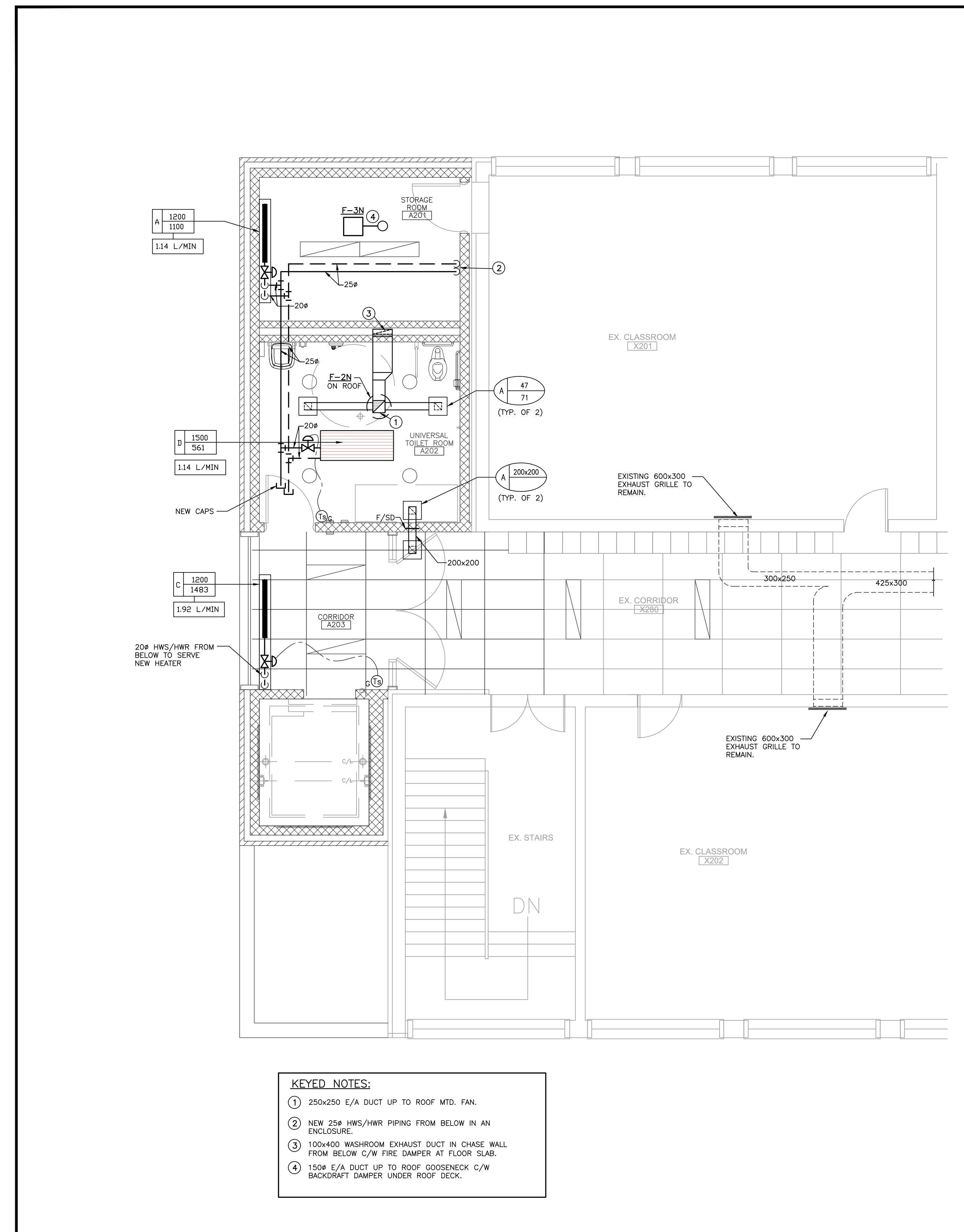
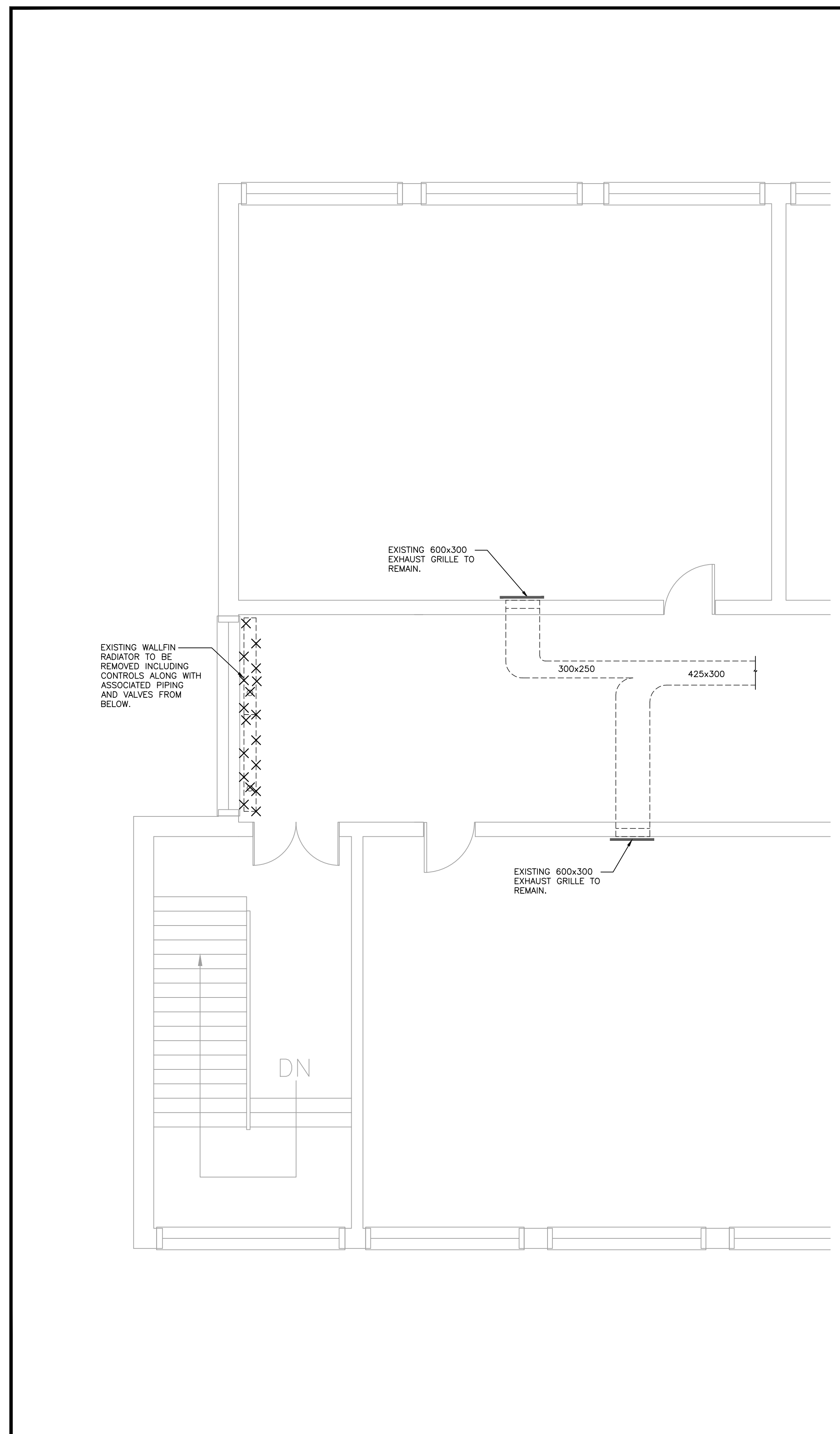
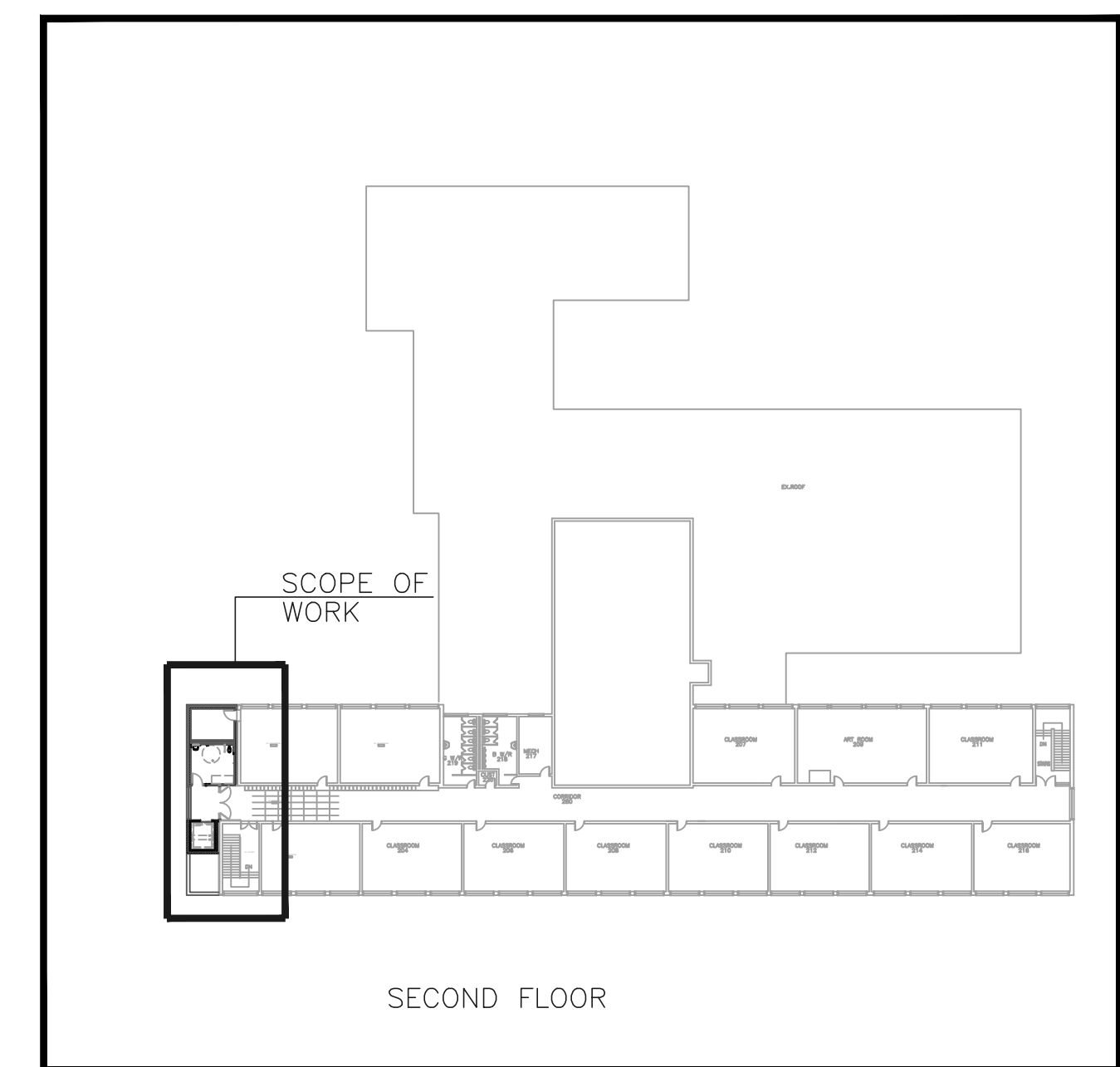


3546 SOUTH COMMON COURT,
MISSISSAUGA, ON L5L 2B1

HVAC - GROUND PART FLOOR PLANS

ELLARD-WILLSON
ENGINEERING LTD
260 TOWN CENTRE BLVD., SUITE 202
MARKHAM ONTARIO L3R-8H8
T: (905) 940-3100 F: (905) 940-2139

SCALE	PROJECT
AS SHOWN	24126
DATE	
OCT 25, 2024	
DRAWN	DRAWING
D.C.	M1
CHECKED	N.D.
PRINT DATE	NOV 25, 2024
CAD FILE	



I2	ISSUED FOR TENDER	04-25-2025
I1	ISSUED FOR PERMIT	12-18-2024
IO	ISSUED	DATE

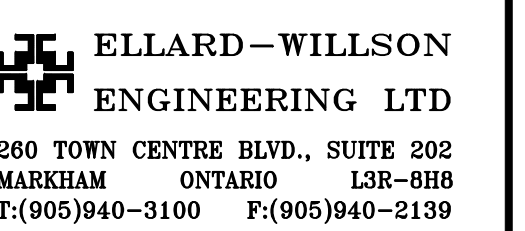
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LEGAL DESCRIPTION
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REGISTERED PLAN E- 88
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEEL



3546 SOUTH COMMON COURT,
MISSISSAUGA, ON L5L 2B1

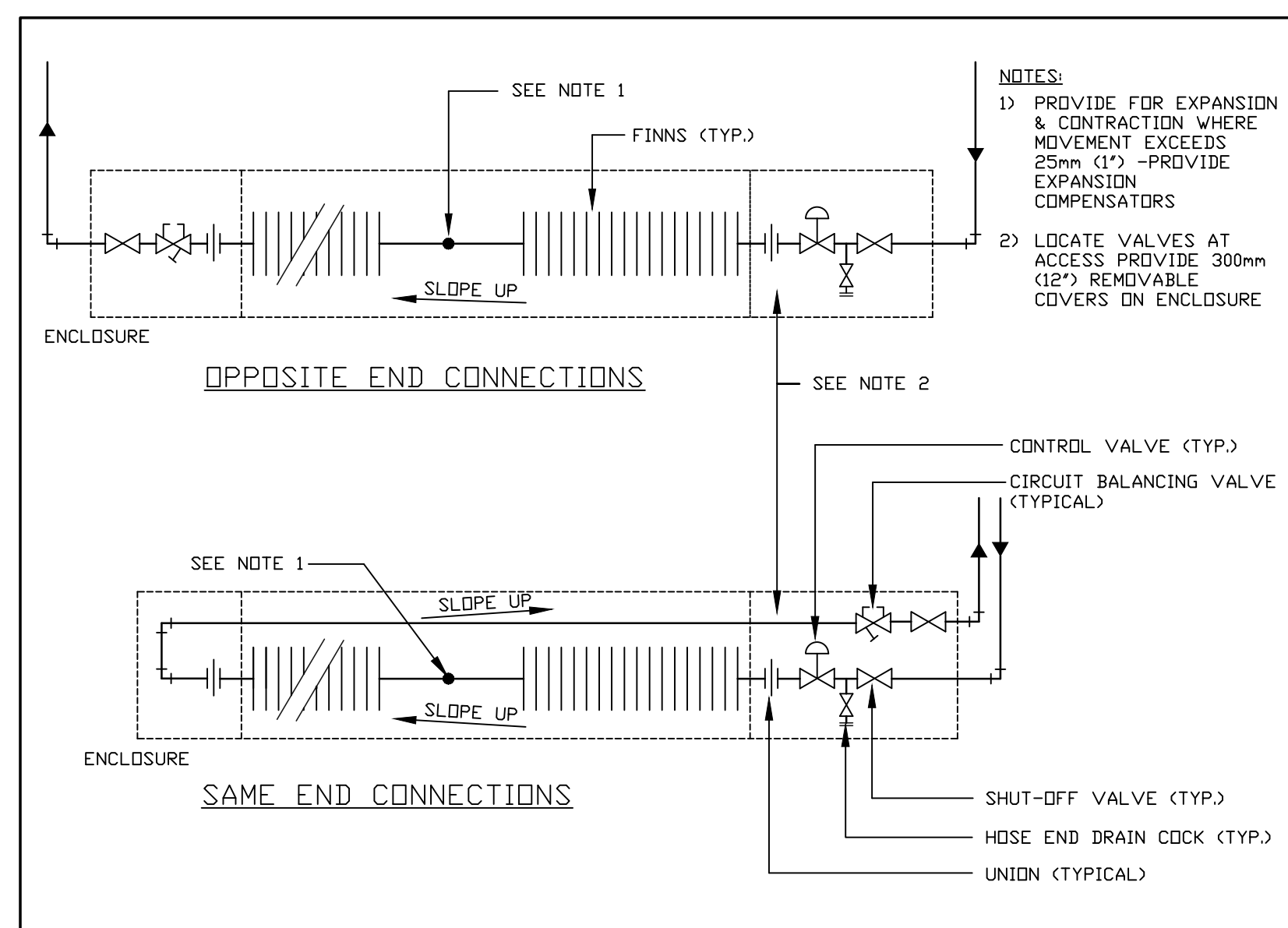
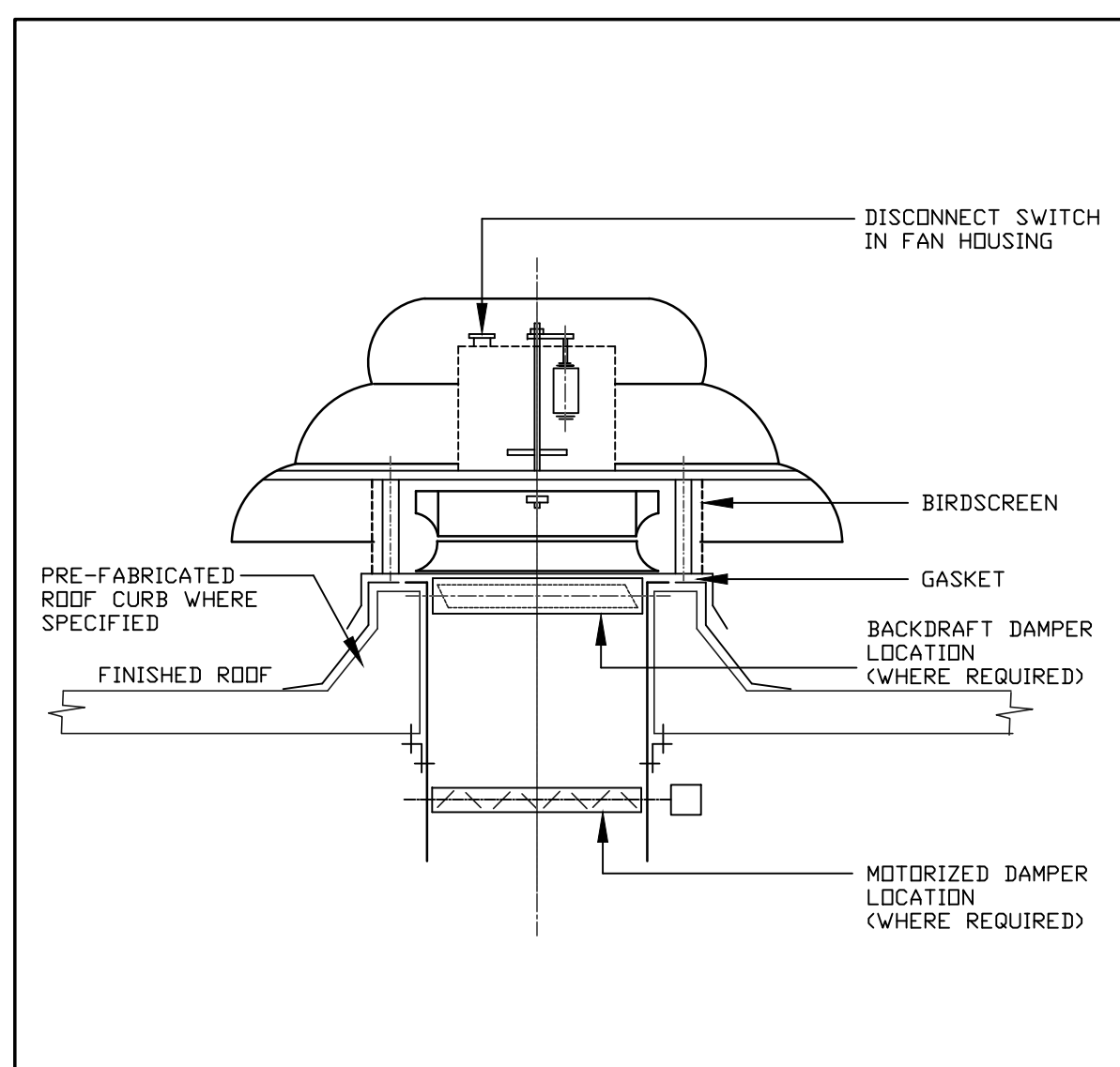
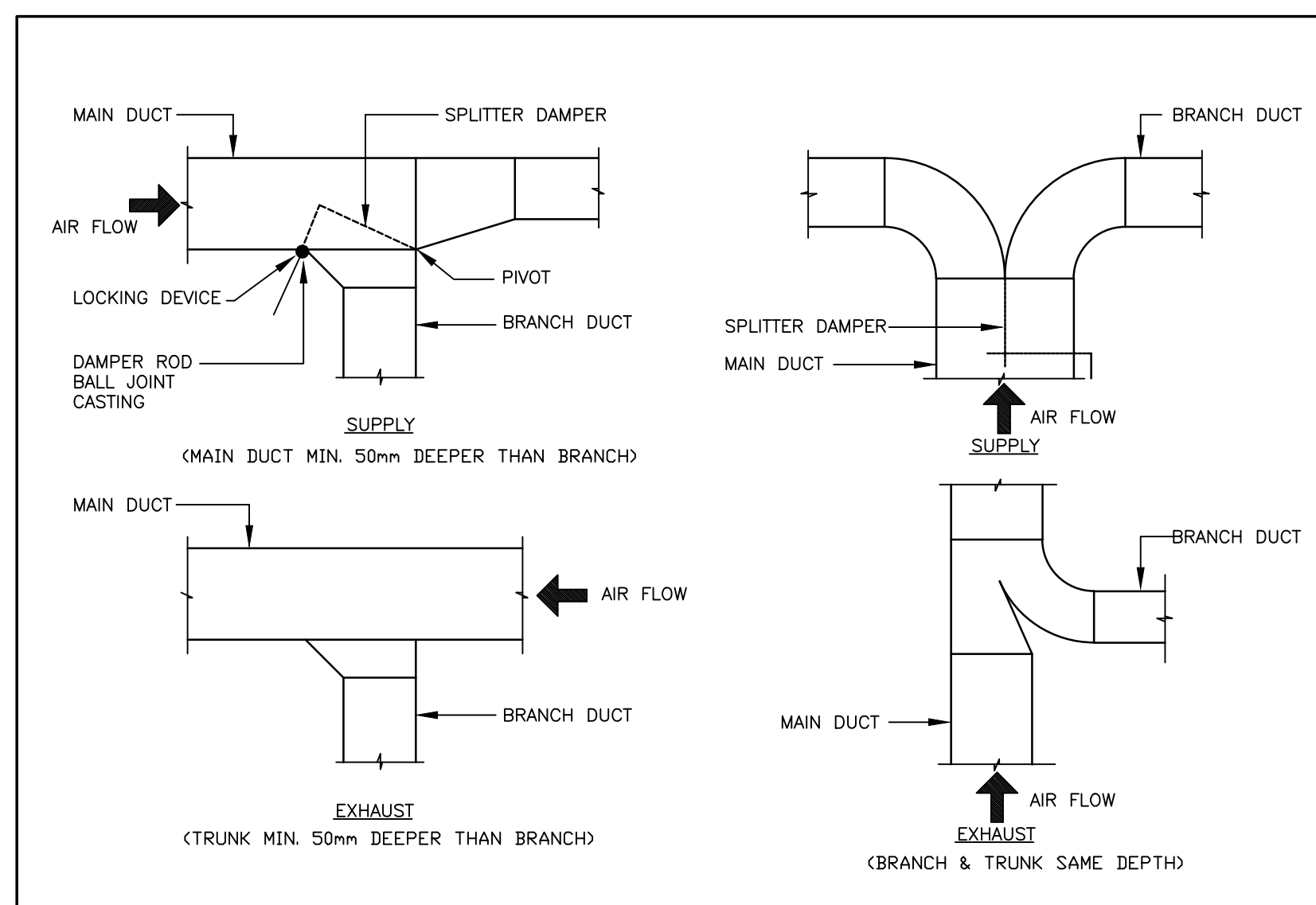
HVAC —
SECOND PART
FLOOR PLANS

SCALE	PROJECT 24126
AS SHOWN	
DATE OCT 25, 2024	
DRAWN	DRAWING M2
D.C.	
CHECKED	
N.D.	
PRINT DATE	NOV 25, 2024
LOAD FILE	

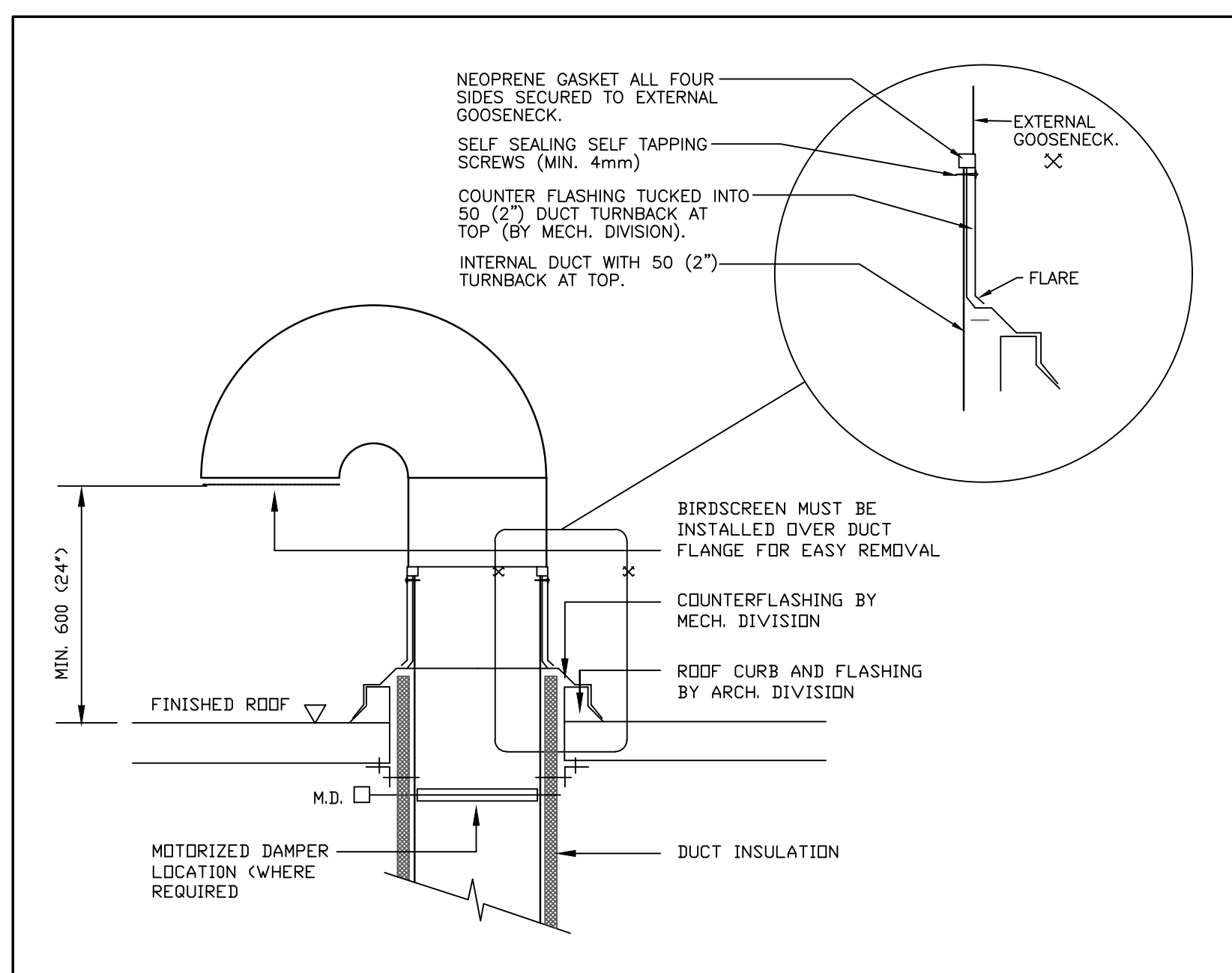
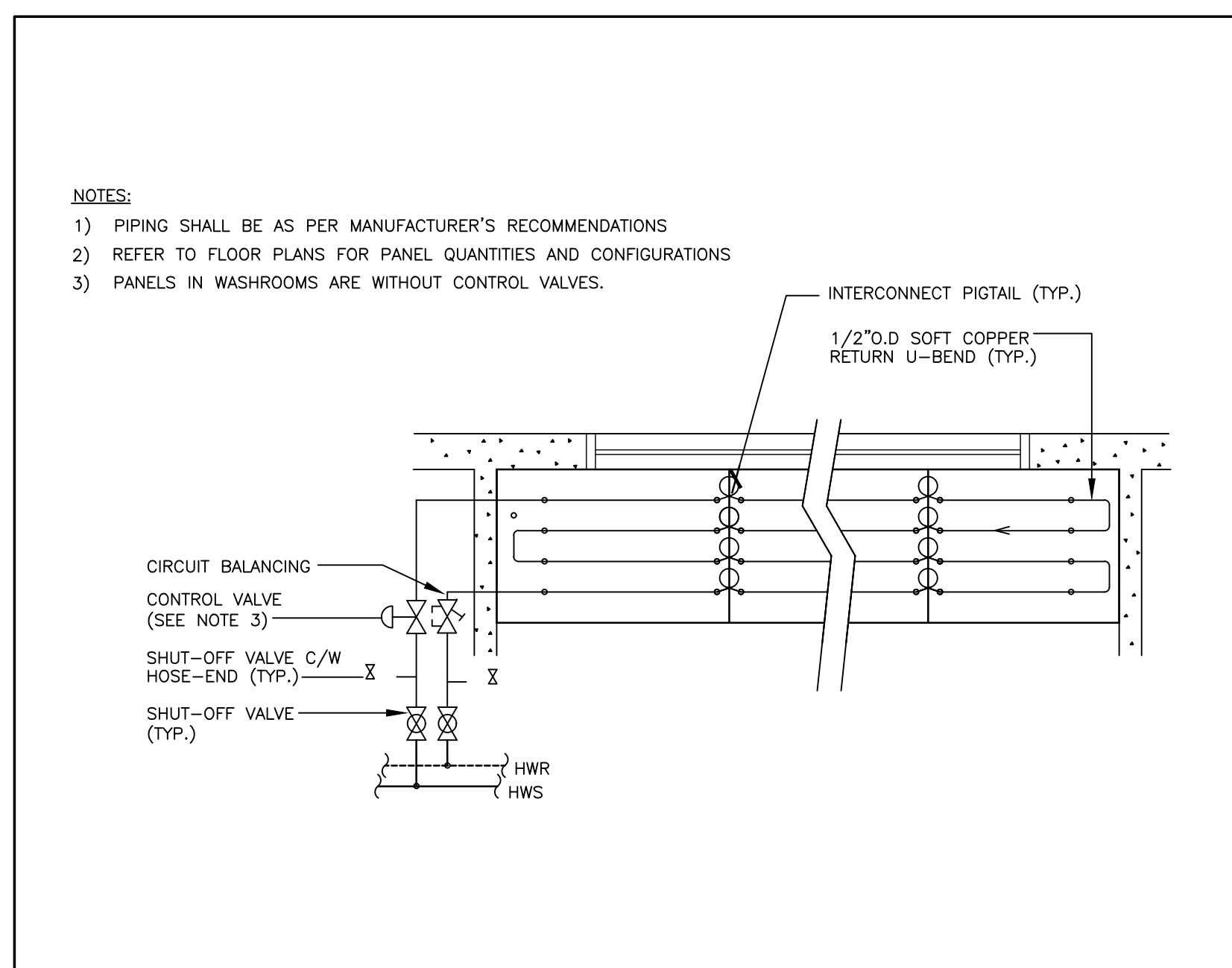
FAN SCHEDULE														
UNIT REF.	FAN DUTY	MANUFACTURER	MODEL NO.	AIR VOLUME		EXT. FAN PRESS.	FAN SPEED RPM	MOTOR POWER		POWER SUPPLY	STARTER	MOUNTING ARRANGEMENTS	REMARKS	
				L/S	Ft ³ /S			BHP	HP/WATTS/AMPS					
F-1N	SUMP ROOM A105 VENTILATION	COOK	120 SQI-B	378	125	1214		1/4 HP	120V/1#/60	SMM, HOA, AU, PL, 24CT	SUSPENDED FROM STRUCTURE	C/W VIBRATION ISOLATORS AND INLET GRILLE		
F-2N	OTHERO WASHROOM A102 & UNIVERSAL WASHROOM A202 EXHAUST	COOK	100 ACE-B	283	125	1495	0.239	1/3 HP	120V/1#/60	SMM, HOA, AU, PL, 24CT	ROOF MOUNTED	C/W 450mm HIGH PREFAB CURB, WEATHERPROOF DISCONNECT SWITCH, BIRDSCREEN AND BACKFRAID DAMPER AND MOTORIZED DAMPER		
F-3N	STORAGE ROOM A201 VENTILATION	COOK	GC-140	47	94	1500		64.6 WATTS	120V/1#/60	BY DIV. 16	SUSPENDED FROM STRUCTURE	C/W VIBRATION ISOLATORS AND INLET GRILLE, MANUAL SWITCH		

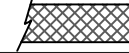
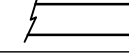
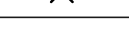
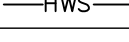
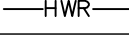
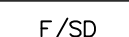
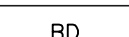
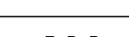
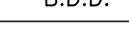
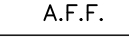
DIFFUSER, GRILLE AND REGISTER SCHEDULE (BASED ON "NAILOR" UNLESS NOTED OTHERWISE)					
TYPE	MODEL NO.	DESCRIPTION OR APPLICATION	BORDER OR FRAME	VOLUME CONTROL DAMPER	REMARKS*
A	5145H	EXHAUST REGISTER	LAY-IN TILE/DRYWALL MOUNTED	NO	FOR SIZES REFER TO FLOOR PLANS

HOT WATER HEATER SCHEDULE										
UNIT REF.	MANUFACTURER & MODEL NO.	HEATER TYPE	HEATING CAPACITY WATTS	E.W.T. 'C	L.W.T. 'C	WATER FLOW L/MIN.	E.A.T. 'C	MOTOR HP	POWER	REMARKS
										
A	END, AIR WE-FIN	FINNED TUBE RADIATION 1-BROW (MID, AT HIGH LEVEL)	SEE PLANS	82.2	71.1	SEE PLANS	18.3	—	—	350mm HIGH FLOPE TOP & BOTTOM ENCLOSURE. 32# COPPER TUBE, 102mm x 102mm ALUMINUM FINS, 164 FINS/M
B	END, AIR HE	HORIZONTAL UNIT HEATER	4,500	82.2	71.1	6.0	15.6	1/20	120W/16/60	224 L/S AIR FLOW
C	END, AIR WE-1A	FINNED TUBE RADIATION 1-BROW	SEE PLANS	82.2	71.1	SEE PLANS	18.3	—	—	450mm HIGH CIRCUT TOP ENCLOSURE. 32# COPPER TUBE, 102mm x 102mm ALUMINUM FINS, 164 FINS/M
D	AIRTEX HEAT-2	LINEAR RADIANT CEILING PANELS	SEE PLANS	82.2	71.1	SEE PLANS	18.3	—	—	800mm WIDE 1-CIRCUIT C/W ALL REQUIRED ACCESSORIES. PERFORMANCE BASED ON 21°C AIR TEMP & 16.6°C SURFACE (WATER) SURFACE TEMP

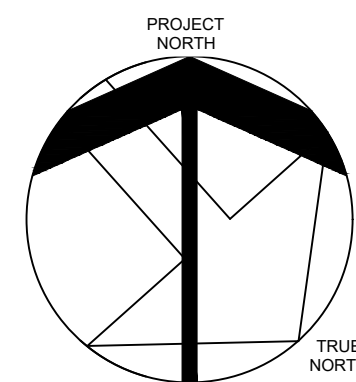


VALVE SELECTION GUIDE (BASED ON "TOUR & ANDERSSON")			
NOM. SIZE (mm)	NOM. FLOW (L/MIN.)	MAX. FLOW (L/MIN.)	
15	UP TO 10.6	17.1	
20	10.6 - 22.7	37.9	
25	22.7 - 37.9	56.8	
32	37.9 - 56.8	94.7	
40	56.8 - 75.8	128.8	
50	75.8 - 136.4	227.4	
65	136.4 - 379.0	606.4	
75	379.0 - 492.7	833.8	
100	492.7 - 758.0	1212.8	
125	758.0 - 1212.8	1970.8	
150	1212.8 - 1705.5	2653.0	
200	1705.5 - 3032.0	4927.0	



STARTER DESIGNATION		HVAC LEGEND	
SYMBOL	DESCRIPTION		INTERNAL DUCT INSULATION (1" THICK)
FCM	FUSED COMBINATION MAGNETIC		DUCTWORK
CBQM	CIRCUIT BREAKER COMBINATION MAGNETIC		LOW VOLTAGE THERMOSTAT (G=GUARD)
SMW	SURFACE MOUNTED MAGNETIC		TEMPERATURE SENSOR (G=GUARD)
SM	SURFACE MOUNTED MANUAL		EXISTING TO BE REMOVED
RM	RECESS MOUNTED MANUAL		HOT WATER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE		HOT WATER RETURN
CB	CIRCUIT BREAKER		FIRE DAMPER
HOA	HAND-OFF-AUTO SWITCH IN COVER		COMBINATION FIRE/SMOKE DAMPER
120CT	120V CONTROL TRANSFORMER		BALANCING DAMPER
24CT	24V CONTROL TRANSFORMER		BACKDRAFT DAMPER
AU	AUXILIARY CONTACTS (TWO "NC" & TWO "NO")		ABOVE FINISHED FLOOR
PL	PILOT LIGHT		ABOVE FINISHED ROOF
S/S	START/STOP SELECTOR SWITCH		COMPLETE WITH

HVAC LEGEND	
	INTERNAL DUCT INSULATION (1" THICK)
	DUCTWORK
	LOW VOLTAGE THERMOSTAT (G=GUARD)
	TEMPERATURE SENSOR (G=GUARD)
	EXISTING TO BE REMOVED
	HOT WATER SUPPLY
	HOT WATER RETURN
	FIRE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	BALANCING DAMPER
	BACKDRAFT DAMPER
	ABOVE FINISHED FLOOR
	ABOVE FINISHED ROOF
	COMPLETE WITH
	SUPPLY AIR
	RETURN AIR
	EXHAUST AIR
	NOT IN CONTRACT
	CONNECT TO EXISTING
	RELOCATE
	UNDER CUT (1" DEEP)
	CONDENSATE DRAIN LINE
	AIR FLOW SWITCH
	OPEN DEDUCT
	SUPPLY AIR DIFFUSER/REGISTER
	RETURN/EXHAUST AIR DIFFUSER/REGISTER
	SHUT-OFF VALVE
	CIRCUIT BALANCING VALVE



MECHANICAL SPECIFICATION

MECHANICAL GENERAL REQUIREMENTS

- [illegible]

HEATING VENTILATION AND AIR CONDITIONING

- [illegible]

AUTOMATIC TEMPERATURE CONTROLS

11. ALL NEW TEMPERATURE CONTROLS SHALL BE CONNECTED TO THE EXISTING BAS SYSTEM BY EXISTING BAS CONTRACTOR. JBS SYSTEMS, CONTACT BEN O'BRIEN, R/SR, 405-453-8221.
 12. PROVIDE TEMPERATURE CONTROL SYSTEMS, EQUIPMENT AND ASSOCIATED OPERATING CONTROLS, AS DETAILED ON THE DRAWINGS, OR AS DESCRIBED IN THE SPECIFICATIONS.
 13. SYSTEMS SHALL BE COMPLETE IN ALL DETAILS NOT NECESSARILY DEFINED OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EACH SYSTEM AND PROVIDE OPERATING SERVICE IN AN ACCEPTABLE MANNER. PROVIDE ALL NECESSARY RELAYS, TRANSFORMERS, ETC. TO INTERCONNECT THE SYSTEMS.
 14. IN GENERAL, UNLESS OTHERWISE NOTED, ALL VALVE ACTUATION IS ELECTRONIC OR ELECTRIC. REFER TO DRAWINGS AND SEQUENCES OF OPERATION IN THIS REGARD.
 15. UPON COMPLETION OF THE INSTALLATION, ALL CONTROL EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE ADJUSTED TO PLACE THE SYSTEM IN COMPLETE OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADJUSTMENT OF ALL ADJUSTABLES SHALL BE MADE IN CO-ORDINATION WITH THE FIELD ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SYSTEMS.
 16. PROVIDE 2-WAY CONTROL DAMPERS AS SHOWN ON THE DRAWINGS, THE DESIGN FLOW PRESSURE DROP SHALL BE 7KPa (1 PSI). ALL VALVES TO BE MODULATING, AND PROVIDE OPERATIONAL RANGE OF 10% TO 90% OPENING. PROVIDE 3-WAY CONTROL SYSTEM FAILURE (i.e. RADPS VALVE FULL OPEN). DRIVE OPEN/DRIVE CLOSE OPERATION IS NOT APPLICABLE. VALVES 50mm (2") AND SMALLER SHALL BE OPERATED BY 24VDC 0.5A RELAY DRIVEN BY 24VDC.
 17. PROVIDE HEAVY DUTY TYPE LINE VOLTAGE THERMOSTATS AND LOW VOLTAGE THERMOSTATS AS SHOWN ON THE DRAWINGS.
 18. MOTORIZED DAMPERS AND OPERATORS:
 - 1) ALL MOTORIZED DAMPERS ARE SUPPLIED, COMPLETE WITH OPERATORS, BY DIVISION 25 FOR INSTALLATION BY DIVISION 23. ALL CONTROL DAMPERS ARE LOW DAMPER TYPE. DAMPERS AND OPERATORS SHALL BE FLANGED TO DUCTWORK.
 - 2) PROVIDE DAMPERS WITH ELECTRONIC/ELECTRIC ACTUATORS (AS SPECIFIED IN SEQUENCES OF OPERATION). ALL ACTUATORS ARE COMPLETE WITH SPRING RETURN TO MAINTAIN DAMPER LEAKAGE CHARACTERISTICS.
 - 3) PROVIDE DEDICATED DAMPER ACTUATORS ON ALL DAMPERS USED FOR MINIMUM FLOW AND AIR FLOW CONTROL.
 19. MOUNT ALL DAMPER ACTUATORS RIGIDLY AND SUPPLY WITH HEAVY DUTY LINKAGE CONSISTING OF A CRANKARM, PUSHROD AND SWIVEL BALLJOINT TO CONNECT TO DAMPER ACTUATOR. PROVIDE 100% OF THE DAMPER LEAKAGE AS PRELIMINARY, INCLUDING UNDER NORMAL OPERATING TORQUE. ACTUATORS SHALL NOT BE EXPOSED TO EXHAUST OR REFRIGERANT STREAMS.
 20. SEQUENCES OF OPERATION
 21. WALL FAN RADIATION (DOCC): FOLLOW THE EXISTING CONTROL SEQUENCE OF OPERATION TO REMAIN. SPACE TEMPERATURE SENSOR MODULATES HEATING OR COOLING. FAN VOLTAGE ON THE EXISTING FAN WIRING AS PRELIMINARY. DEFINE SEPTIME. WIRING THE CONTROLS TO EXISTING BAS SYSTEM.
 22. EXHAUST FANS
 - 1 APPLICABLE FOR EQUIPMENT: F-ZN
 - 2 BAS CONTROLS FROM OPERATOR ADJUSTABLE INDIVIDUAL TIME SCHEDULE.
 23. MISCELLANEOUS HEATING AND VENTILATION (DOCC)
 - 1 APPLICABLE FOR F-IN: ON A TEMPERATURE RISE ABOVE SEPTIME, SPACE TEMPERATURE SENSOR MODULATES HEATING OR COOLING. FAN VOLTAGE ON THE EXISTING FAN WIRING AS PRELIMINARY. LEAKAGE ELECTRIC MOTORIZED DAMPER (120 VAC) AT AIR INTAKE DUCT TO MAINTAIN AN OPERATOR ADJUSTABLE SEPTIME. WIRING OF FAN AND DAMPER VOLTAGE TO EXISTING BAS SYSTEM. FAN START/STOP THROUGH FAN MOTOR STARTERS. ON A TEMPERATURE DROP BELOW HEATING SEPTIME, SPACE TEMPERATURE SENSOR ENERGIZES HEAT FAN (AIR FLOW) FOR COOL IN CASE OF EXHAUST FAN. ON A MAINTENANCE STOP DAMPER ADJUSTABLE HEATING SEPTIME.
 - 2 CONTROL FOR THE ELECTRIC LINE VOLTAGE HEAT SHALL BE SIMILAR AS PER ABOVE. PROVIDE NECESSARY CONTROL CONNECTIONS AS REQUIRED.

ADDITION TO ALLAN A
MARTIN PUBLIC SCHOOL

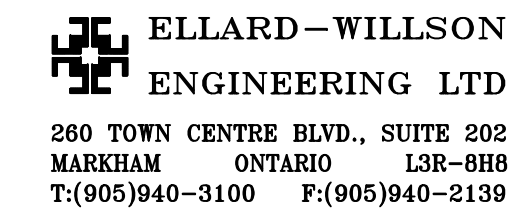
LEGAL DESCRIPTION

PART OF LOT 8 AND 9
REGISTERED PLAN E- 88
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEE



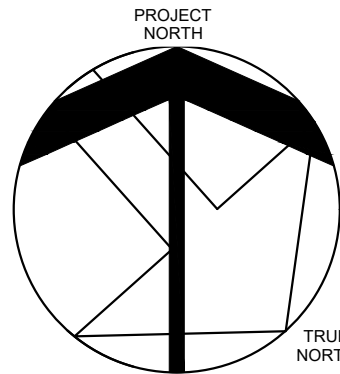
3546 SOUTH COMMON COURT,
MISSISSAUGA, ON L5L 2B1

HVAC – SPECIFICATIONS, SCHEDULES AND DETAILS



T:(905)940-3100 F:(905)940-2139

SCALE	PROJECT
AS SHOWN	
DATE	24126
OCT 25, 2024	
DRAWN	DRAWING
CHECKED	
	M3
PRINT DATE	
CAD FILE	NOV 25, 2024



ADDITION TO ALLAN A MARTIN PUBLIC SCHOOL

LEGAL DESCRIPTION

PART OF LOT 5 AND 9
REGISTERED PLAN E-88
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEE



3546 SOUTH COMMON COURT,
MISSISSAUGA, ON L5L 2B1

HVAC LOAD ANALYSIS

ELLARD-WILLSON
ENGINEERING LTD
300 TOWN CENTRE BLVD., SUITE 202
MARIHAM, ONTARIO L3R 8B8
T:(905)940-3100 F:(905)940-2139

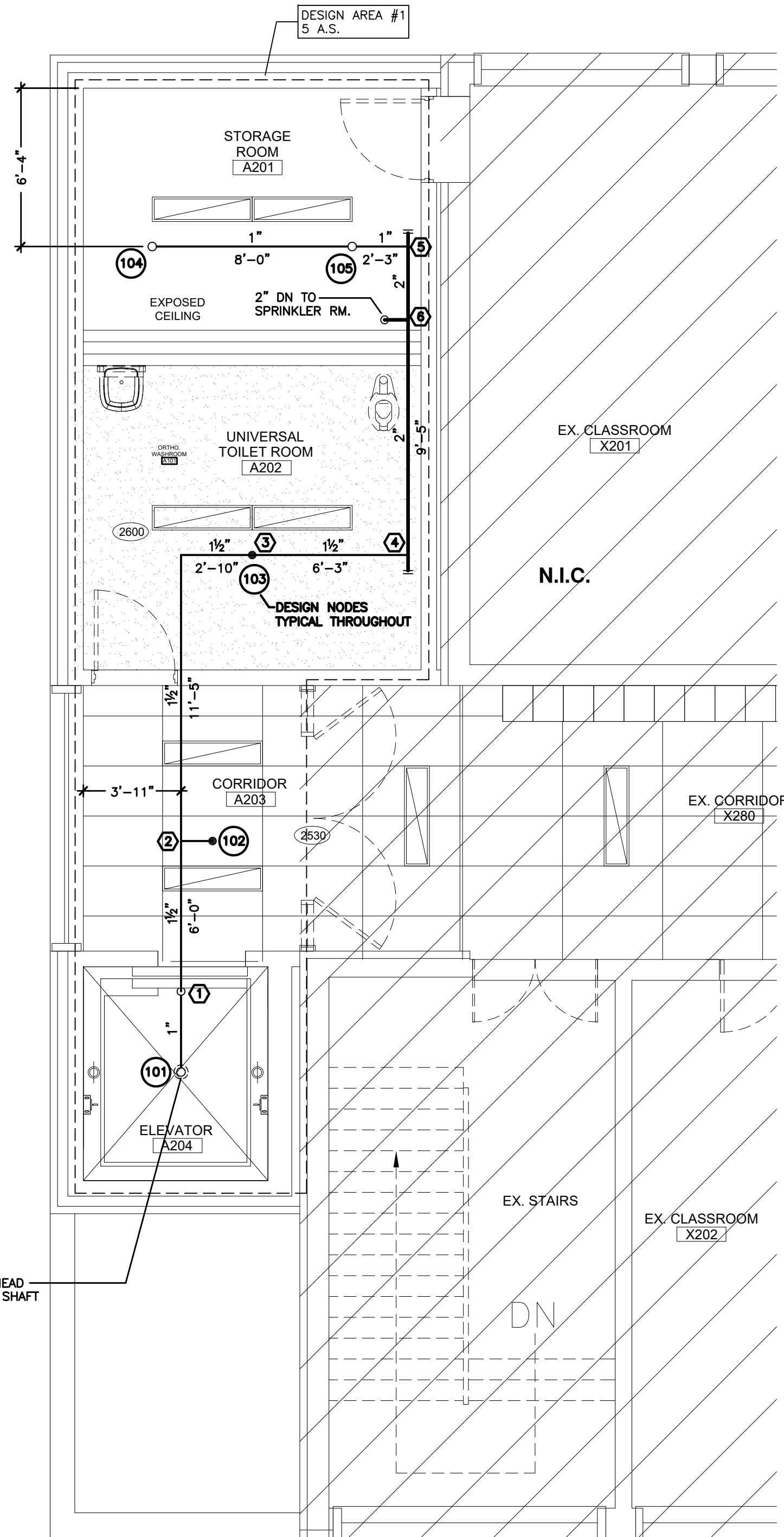
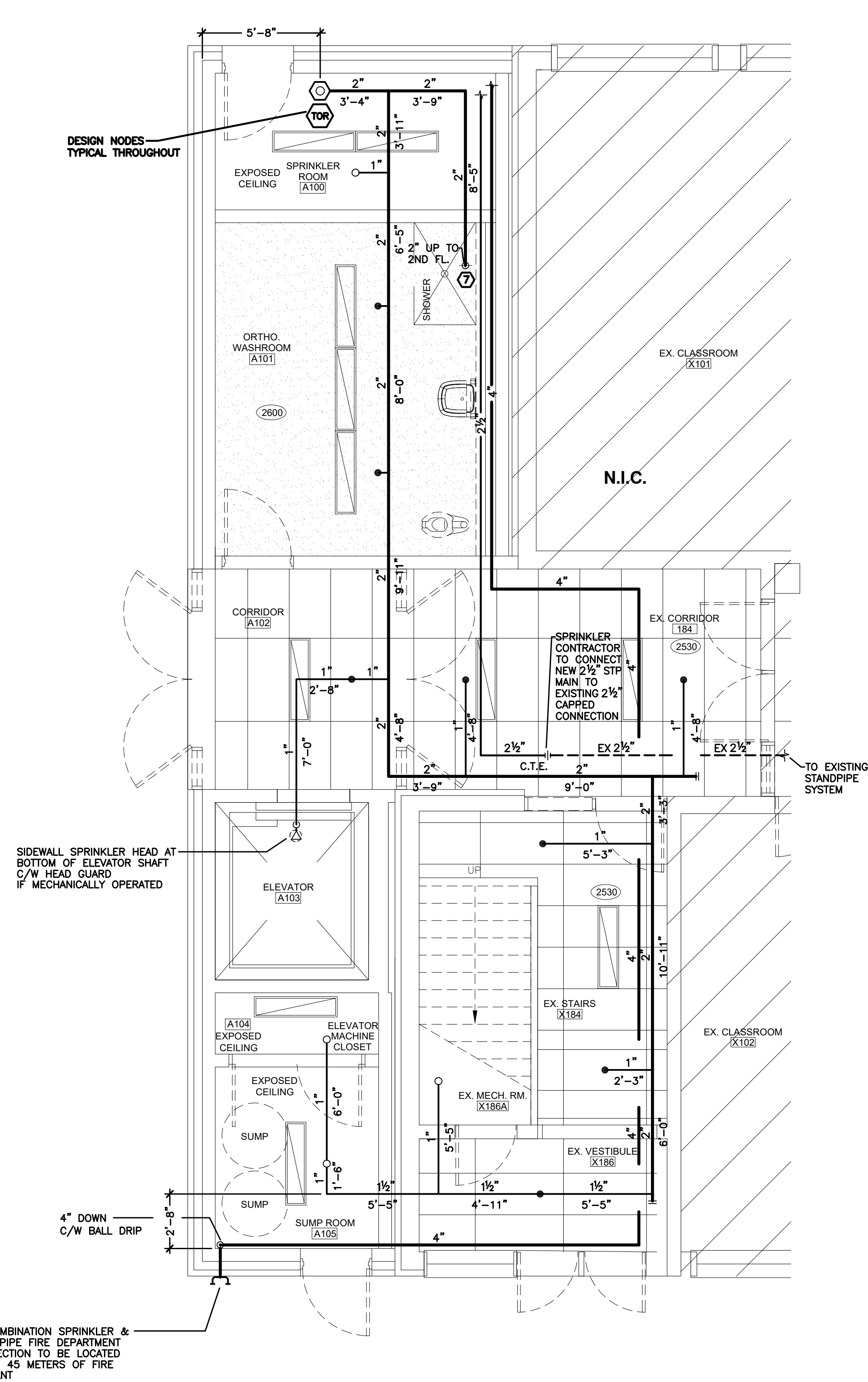
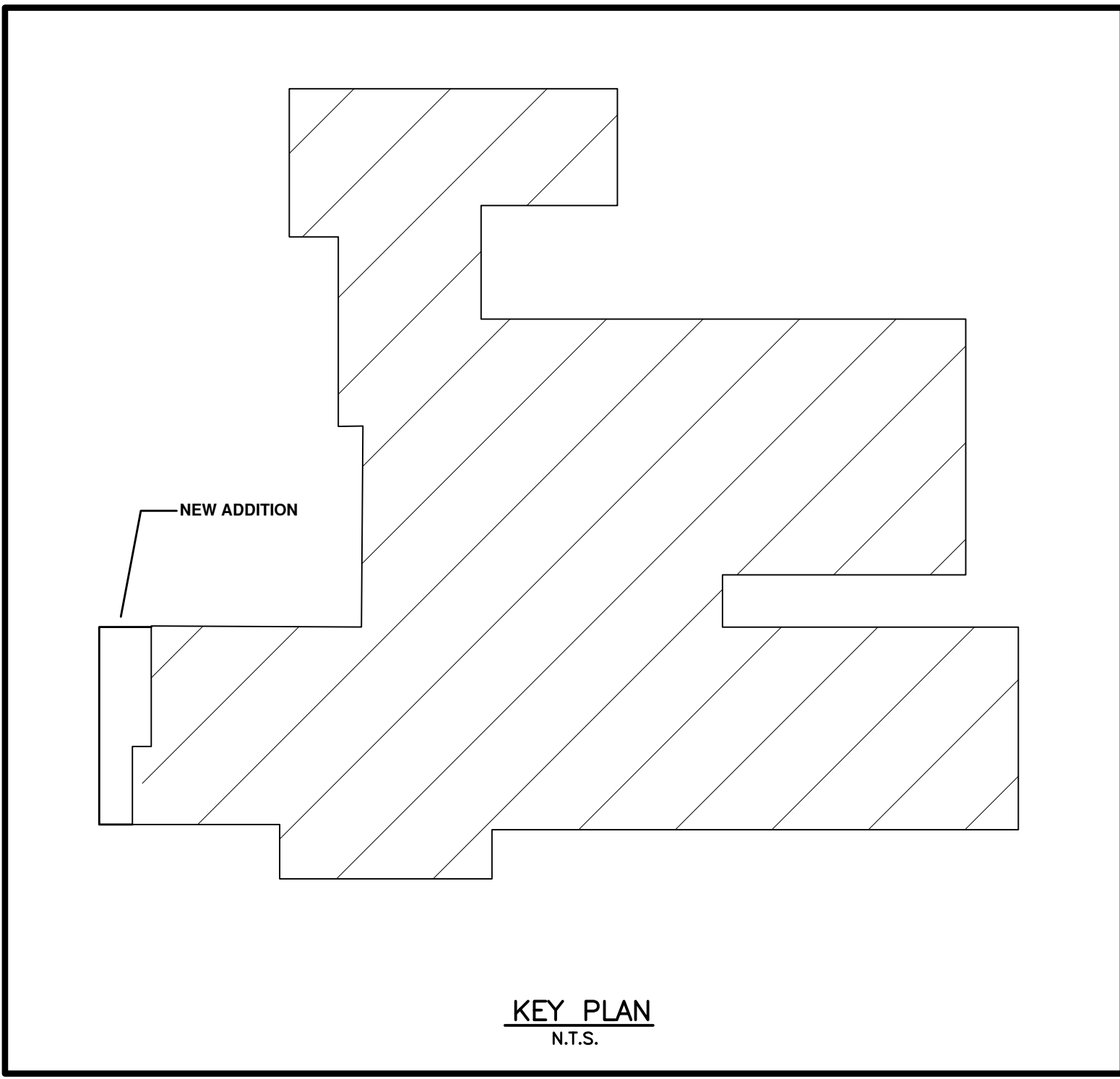
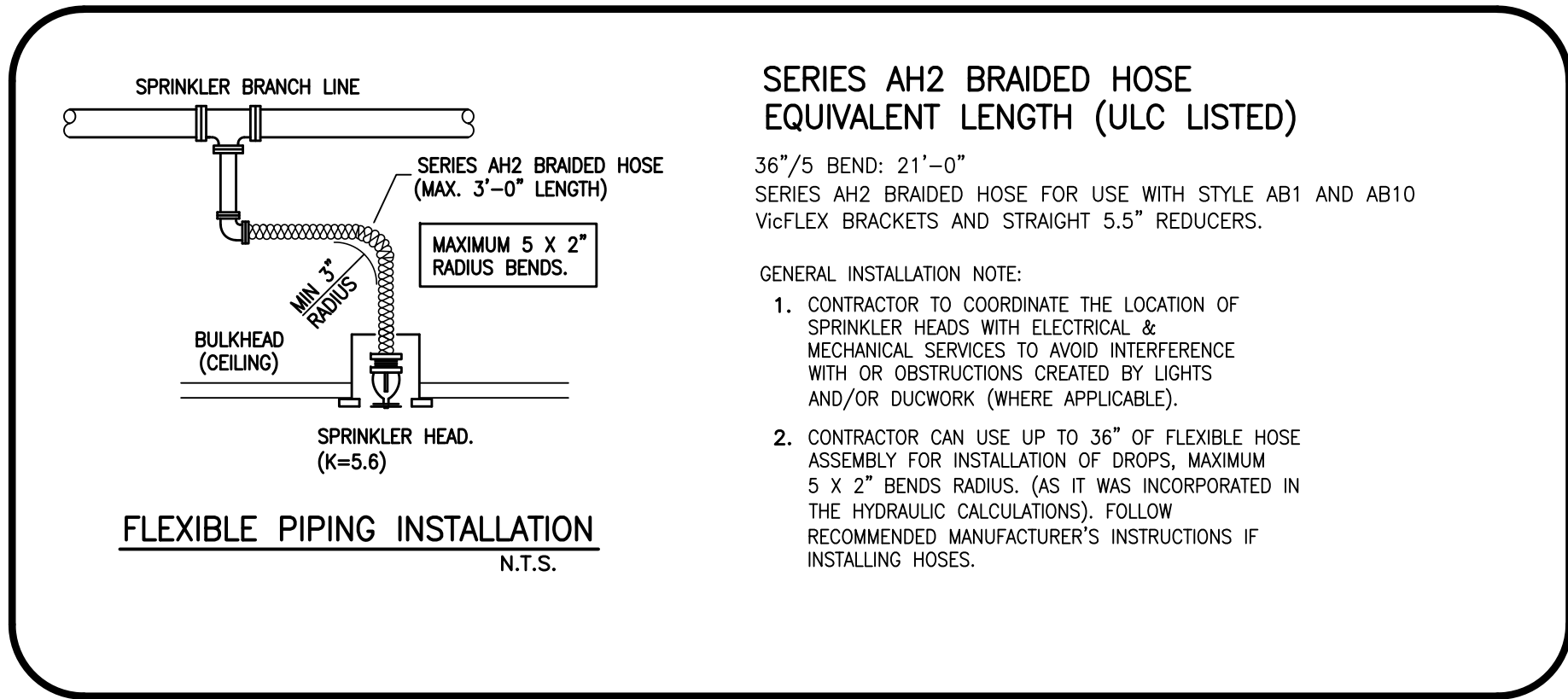
Chvac - Full Commercial HVAC Loads Calculation Program							Elite Software Development, Inc.		
Ellard-Wilson Engineering LTD							Addition To Allan A Martin PS		
Markham, ON L3R 8B8							Page 4		
Air Handler #1 - Heating Only - Summary Loads									
Zn No	Description Zone Peak Time	Area People Volume	Htg CFM CFM/Sqft	Sen. Gain Clg CFM CFM/Sqft	Lat. Gain S. Exh W. Exh	Htg O.A. Req. CFM Act. CFM	Clg O.A. Req. CFM Act. CFM		
1	SUMP ROOM A105 & ELEV. MACHINE CLOSET A	97	12,590	0	0	None	None		
		0	10	0	0	0	0		
		873	0.10	0.00	0	8	0		
2	SPRINKLER ROOM	33	12,255	0	0	None	None		
		0	10	0	0	0	0		
		297	0.29	0.00	0	7	0		
3	ORTHO WASHROOM A101	205	2,064	0	0	None	None		
		0	2	0	0	0	0		
		1,845	0.01	0.00	0	1	0		
4	UNIVERSAL WASHROOM A202	165	1,602	0	0	None	None		
		0	1	0	0	0	0		
		1,485	0.01	0.00	0	1	0		
5	STORAGE ROOM A201	132	2,323	0	0	None	None		
		0	2	0	0	16	0		
		1,188	0.01	0.00	0	1	0		
6	CORRIDOR A102	287	29,696	0	0	None	None		
		0	23	0	0	17	0		
		2,583	0.08	0.00	0	18	0		
7	CORRIDOR A203	93	3,582	0	0	None	None		
		0	3	0	0	6	0		
		837	0.03	0.00	0	2	0		
Zone Peak Totals:		1,012	64,113	0	0				
Total Zones: 7		0	50	0	0	39	0		
Unique Zones: 7		9,108	0.05	0.00	0	39	0		

Chvac - Full Commercial HVAC Loads Calculation Program		Elite Software Development, Inc.	
Ellard-Wilson Engineering LTD		Addition To Allan A Martin PS	
Markham, ON L3R 8B8		Page 3	
Building Summary Loads (cont'd)			
Check Figures			
Total Heating Required With Outside Air:		67,575 Btuh	
Total Cooling Required With Outside Air:		0.00 Tons	

Chvac - Full Commercial HVAC Loads Calculation Program								Elite Software Development, Inc. Ellard-Wilson Engineering LTD Markham, ON L3R 8B8 Page 2	
Building Summary Loads									
Bldg Load Descriptions	Area Quan	Sen Loss	%Tot Loss	Lat Gain	Sen Gain	Net Gain	%Net Gain		
Roof	487	1,258	1.86	0	0	0	0.00		
Wall	1,623	7,810	11.56	0	0	0	0.00		
Glass	72	2,867	4.24	0	0	0	0.00		
Floor Slab	72	5,157	7.63	0	0	0	0.00		
Skin Loads		17,093	25.29	0	0	0	0.00		
Lighting	1,012	0	0.00	0	0	0	0.00		
Equipment	0	0	0.00	0	0	0	0.00		
People	0	0	0.00	0	0	0	0.00		
Partition	0	0	0.00	0	0	0	0.00		
Cool. Pret.	0	0	0.00	0	0	0	0.00		
Heat. Pret.	0	0	0.00	0	0	0	0.00		
Cool. Vent.	0	0	0.00	0	0	0	0.00		
Heat. Vent.	39	3,303	4.89	0	0	0	0.00		
Cool. Infil.	0	0	0.00	0	0	0	0.00		
Heat. Infil.	500	47,020	69.58	0	0	0	0.00		
Draw-Thru Fan	0	0	0.00	0	0	0	0.00		
Blow-Thru Fan	0	0	0.00	0	0	0	0.00		
Reserve Cap.	0	0	0.00	0	0	0	0.00		
Reheat Cap.	0	0	0.00	0	0	0	0.00		
Supply Duct	0	106	0.16	0	0	0	0.00		
Return Duct	0	53	0.08	0	0	0	0.00		
Misc. Supply	0	0	0.00	0	0	0	0.00		
Misc. Return	0	0	0.00	0	0	0	0.00		
Building Totals		67,575	100.00	0	0	0	0.00		
Building Summary	Sen Loss	%Tot Loss	Lat Gain	Sen Gain	Net Gain	%Net Gain			
Ventilation	3,303	4.89	0	0	0	0.00			
Infiltration	47,020	69.58	0	0	0	0.00			
Pretreated Air	0	0.00	0	0	0	0.00			
Zone Loads	17,093	25.29	0	0	0	0.00			
Plenum Loads	0	0.00	0	0	0	0.00			
Fan/Duct/Misc Loads	158	0.23	0	0	0	0.00			
Building Totals	67,575	100.00	0	0	0	0.00			
Check Figures									
Total Building Supply Air (based on a 1217° TD):				50 CFM					
Total Building Vent. Air (77.28% of Supply):				39 CFM					
Total Conditioned Air Space:				1,012 Sq.ft					
Supply Air Per Unit Area:				0.0494 CFM/Sq.ft					
Area Per Cooling Capacity:				0.0 Sq.ft/Ton					
Cooling Capacity Per Area:				0.0000 Tons/Sq.ft					
Heating Capacity Per Area:				66.77 Btuh/Sq.ft					

Chvac - Full Commercial HVAC Loads Calculation Program							Elite Software Development, Inc.		
Ellard-Wilson Engineering LTD							Addition To Allan A Martin PS		
Markham, ON L3R 8B8							Page 8		
Zone Detailed Loads (At Zone Peak Times) (cont'd)									
Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss	
Sub-total					0	0		1,457	
Safety factors:					+0%	+0%		+10%	
Total w/ safety factors:					0	0		1,602	
Zone 5-STORAGE ROOM A201, Air Handler 1 (Heating Only), Group 0, 132.0 x 1.0, Construction Type: 17 (Heavy)									
Roof-1-4-Susp.C-D	132	1.00	26.5	0.029	0		2,349	310	
Wall-1-SE-D-D	155		121.5	0.054	0		4,374	680	
Wall-2-SW-D-D	215		132.5	0.054	0		4,374	939	
Wall-3-NW-D-D	42	122.0	0.054		0		4,374	184	
Sub-total					0	0		2,112	
Safety factors:					+0%	+0%		+10%	
Total w/ safety factors:					0	0		2,323	
Zone 6-CORRIDOR A102, Air Handler 1 (Heating Only), Group 0, 287.0 x 1.0, Construction Type: 17 (Heavy)									
Roof-1-4-Susp.C-D	138	1.00	26.5	0.029	0		4,374	604	
Floor slab	12		21.5	0.054	0		64,800	745	
Cool. Infil.AC/hr	0				0	0			
Heat. Infil.Direct CFM	300						85,491	25,647	
Sub-total					0	0		26,996	
Safety factors:					+0%	+0%		+10%	
Total w/ safety factors:					0	0		29,696	
Zone 7-CORRIDOR A203, Air Handler 1 (Heating Only), Group 0, 93.0 x 1.0, Construction Type: 17 (Heavy)									
Roof-1-4-Susp.C-D	93	1.00	26.5	0.029	0		2,349	218	
Wall-1-SE-D-D	99		121.5	0.054	0		4,374	432	
Gls-SE-1-90-Tran	71.5	1.000		-4.050	0		36,450	2,606	
0%-S-0-UNS-Solar	71.5	0.400	202	0.140	0				
Sub-total					0	0		3,256	
Safety factors:					+0%	+0%		+10%	
Total w/ safety factors:					0	0		3,582	

Chvac - Full Commercial HVAC Loads Calculation Program							Elite Software Development, Inc.		
Ellard-Wilson Engineering LTD							Addition To Allan A Martin PS		
Markham, ON L3R 8B8							Page 7		
Zone Detailed Loads (At Zone Peak Times)									
Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss	
Zone 1-SUMP ROOM A105 & ELEV. MACHINE CLOSET A, Air Handler 1 (Heating Only), Group 0, 97.0 x 1.0, Construction Type: 17 (Heavy)									
Roof-1-4-Susp.C-D	97	1.00	26.5	0.029	0			2,349,228	
Wall-1-SE-D-D	159		121.5	0.054	0			4,374,661	
Wall-2-NE-D-D	114		112.0	0.054	0			4,374,499	
Floor slab	23							64,800,1474	
Cool. Infil.Air/hr	0				0	0			
Heat. Infil.Direct CFM	100							85,491,8,549	
Sub-total					0	0		11,445	
Safety factors:					+0%	+0%		+10%	
Total w/ safety factors:					0	0		12,590	
Zone 2-SPRINKLER ROOM, Air Handler 1 (Heating Only), Group 0, 1.0 x 33.0, Construction Type: 17 (Heavy)									
Wall-1-SE-D-D	91		121.5	0.054	0			4,374,399	
Wall-2-SW-D-D	174		132.5	0.054	0			4,374,761	
Floor slab	22							64,800,1,432	
Cool. Infil.Air/hr	0				0	0			
Heat. Infil.Direct CFM	100							85,491,8,549	
Sub-total					0	0		11,141	
Safety factors:					+0%	+0%		+10%	
Total w/ safety factors:					0	0		12,255	
Zone 3-ORTHO WASHROOM A101, Air Handler 1 (Heating Only), Group 0, 205.0 x 1.0, Construction Type: 17 (Heavy)									
Wall-1-SE-D-D	192		121.5	0.054	0			4,374,840	
Floor slab	16							64,800,1,037	
Sub-total					0	0		1,877	
Safety factors:					+0%	+0%		+10%	
Total w/ safety factors:					0	0		2,064	
Zone 4-UNIVERSAL WASHROOM A202, Air Handler 1 (Heating Only), Group 0, 165.0 x 1.0, Construction Type: 17 (Heavy)									
Roof-1-4-Susp.C-D	165	1.00	26.5	0.029	0			2,349,388	
Wall-1-SE-D-D	192		121.5	0.054	0			4,374,842	
Wall-2-NW-D-D	152		122.0	0.054	0			4,374,227	



NOTES

THIS DRAWING ASSOCIATED CALCULATIONS AND SPECIFICATIONS ARE THE PROPERTY OF THE DESIGNER AND MUST BE RETURNED AT THE COMPLETION OF THE WORK OR UPON REQUEST. DIMENSIONS TAKE PRECEDENCE OVER SCALE. THE SPRINKLER SYSTEM IS TO BE INSTALLED AS PER N.F.P.A. STANDARD #13 AND O.B.C. STANDARDS. (IF APPLICABLE).

CONTRACTOR TO INCLUDE FOR OFFSETS IN BRANCH LINES AND MAINS WHERE REQUIRED.

ALL MATERIALS TO BE U.L.C. LISTED AND APPROVED BY LOCAL AUTHORITIES. UNDERGROUND WATER MAIN TO BE INSTALLED ACCORDING TO LOCAL AUTHORITIES AND INSURANCE CO. STANDARDS. (IF APPLICABLE).

INSTALL HIGH TEMPERATURE HEADS WHERE REQUIRED AS PER N.F.P.A. STANDARD # 13.

ALL INTERIOR GRID BRANCH LINE MEASUREMENTS ARE GIVEN AS CENTRE LINE TO CENTRE LINE DIMENSIONS. (SCH.10 PIPE OR SCH.40 PIPE).

ALL OTHER BRANCH LINE MEASUREMENTS ARE GIVEN AS CENTRE LINE TO CENTRE LINE. (SCH. 10 OR SCH. 40 PIPE).

ALL MAIN MEASUREMENTS ARE GIVEN AS CENTRE LINE TO CENTRE LINE DIMENSIONS. (SCH. 10 OR SCH. 40 PIPE).

⊙ DENOTES DISTANCE FROM CENTRE LINE OF SPRINKLER PIPE TO FINISHED FLOOR. PIPE ELEVATION FOR HYDRAULIC CALCULATION ONLY. CONTRACTOR TO DETERMINE ACTUAL ELEVATION ON SITE.

RN DENOTES RISER NIPPLE
DN DENOTES DOWN.

ALL SUPERVISED VALVES, FLOW (PRESSURE) SWITCHES AND LOW PRESSURE MONITORING SWITCHES TO BE CONNECTED TO FIRE ALARM SYSTEM. (IF F.A.S. IS INSTALLED).

CONTRACTOR TO VISIT SITE TO DETERMINE EXACT LOCATION AND ELEVATION OF MAINS (TO BE INSTALLED) AS INDICATED ON DRAWINGS. ANY MAJOR DISCREPANCIES TO BE REPORTED TO THE DESIGNER PRIOR TO FABRICATION AND INSTALLATION.

LEGEND:

1. RETROFIT EXISTING SPRINKLER SYSTEM TO SUIT NEW TENANT LAYOUT AS SHOWN ON DRAWINGS

2. ARMOVERS IN EXCESS OF 2'-0" TO BE PROVIDED BY HANGERS

NEW SPRINKLER LINE
NEW SPRINKLER MAIN
EXISTING SPRINKLER MAIN
EXISTING SPRINKLER BRANCH LINE

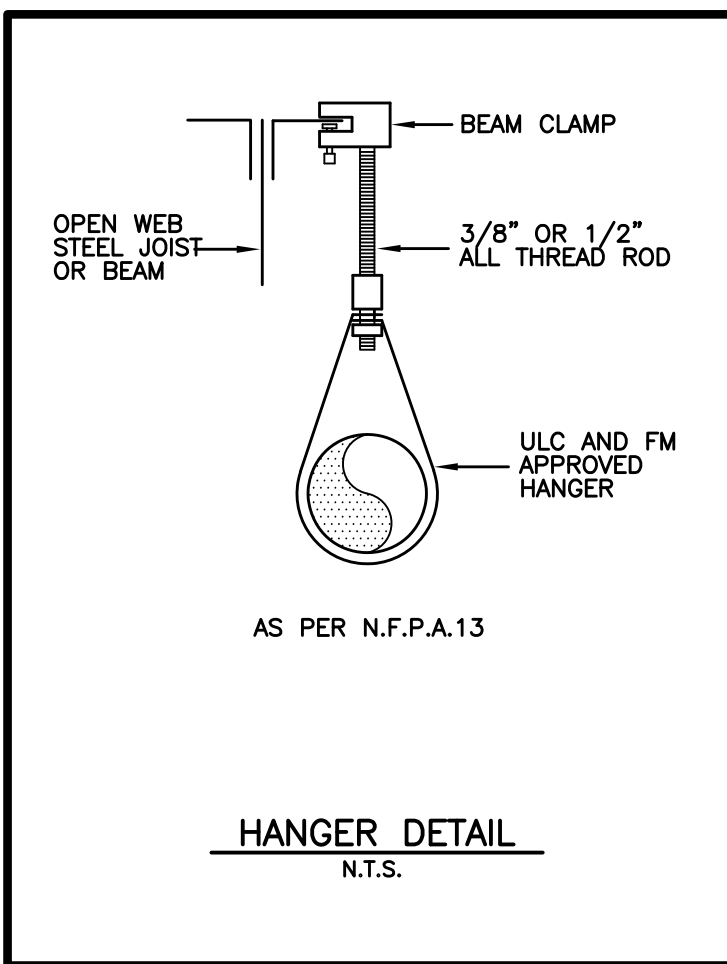
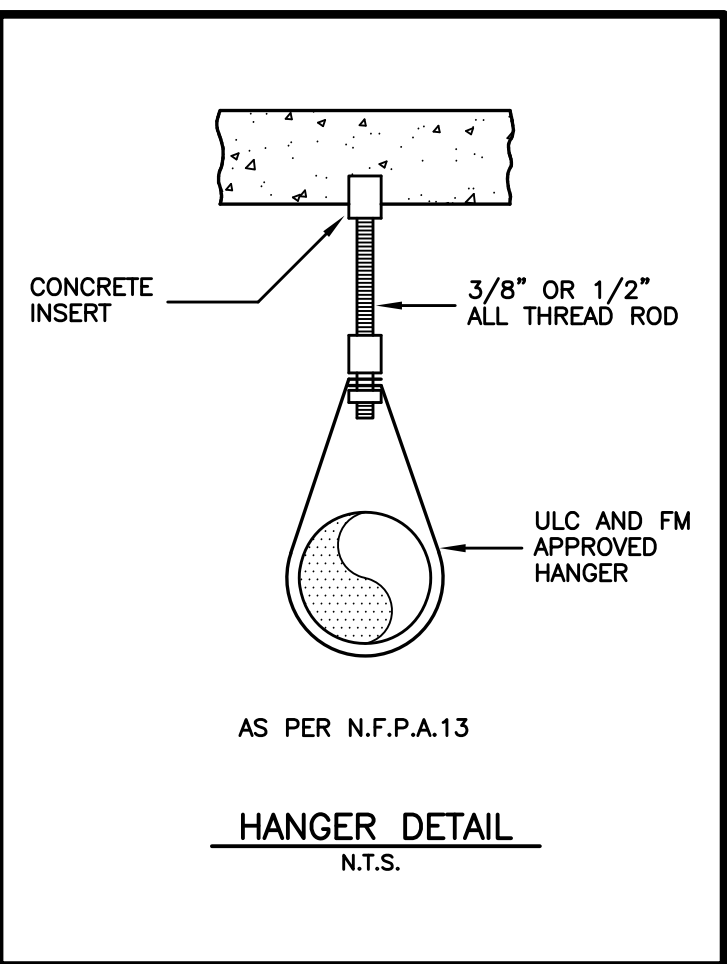
7" DENOTES NEW 1" ARMOVER OFF EXISTING 1" OUTLET
PLG. DENOTES PLUG EXISTING 1" OPENING

N.C. DENOTES NEW CONNECTION
S.R. DENOTES STANDARD RESPONSE
Q.R. DENOTES QUICK RESPONSE
N.I.C. DENOTES NOT IN CONTRACT
H.T. DENOTES HIGH TEMPERATURE

⊙ ⊙ HYDRAULIC IDS POINT

3. CONTRACTOR TO COORDINATE WITH HVAC AND LIGHTING

HATCHED AREA NOT IN CONTRACT



SINCE THE BUILDING IS EXISTING, CONTRACTOR IS TO VISIT SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS RELATIVE TO THE PROJECT AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO QUOTING OR FABRICATION.

OWNER (OR OTHERS) TO PROVIDE ACCURATE HEAT IN ALL AREAS OF BUILDING SUBJECT TO FREEZING. HEAT AND PROTECTED BY A WET TYPE SPRINKLER SYSTEM.

ALL GLASS BULB TYPE SPRINKLERS TO BE OF RECENT ISSUE.

REVISIONS		
2024 DEC 17	ISSUED FOR PERMIT	
2025 APR 25	1	ISSUED FOR TENDER

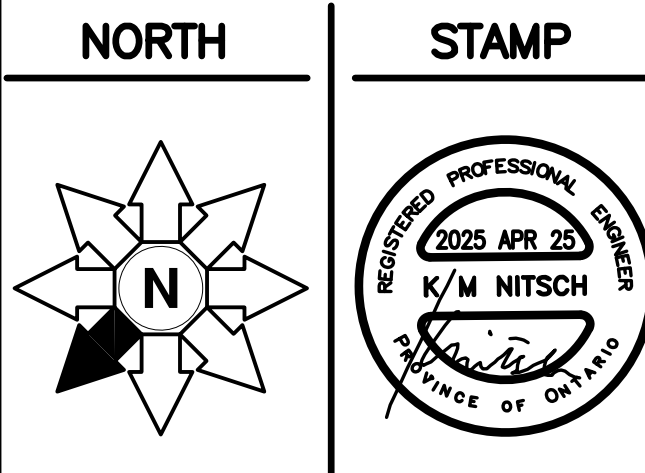
DESIGN CRITERIA

SECOND FLOOR:
SPRINKLER SYSTEM DESIGNED FOR LIGHT AND ORDINARY HAZARD. 0.10 & 0.15 GPM PER SQ.FT. OVER ENTIRE AREA = 530 SQ.FT. PLUS 250 GPM FOR HOSES. AS PER NFPA #13, 2013 EDITION

○	1/2" 155°F Q.R. UPRIGHT SPRINKLER HEAD (K=5.6)
●	1/2" 155°F Q.R. PENDENT SPRINKLER HEAD K=5.6
◐	1" 155°F Q.R. DRY PENDENT SPRINKLER HEAD K=5.6
▷	1/2" 155°F Q.R. SIDEWALL SPRINKLER HEAD K=5.6

ELLARD-WILLSON ENGINEERING LTD
280 TOWN CENTRE BLVD., SUITE 202
MARKHAM, ONTARIO L3R-8B8
T:(905)940-3100 F:(905)940-2199

DISANO DESIGN
80 TRIDITION COURT
SUITE 107, MARKHAM
L3R 9P9
T: 905-477-4474
F: 905-477-5364
E: disano@disanosprinkler.ca



PROJECT
ALLAN A. MARTIN PUBLIC SCHOOL
1390 OGDEN AVENUE
MISSISSAUGA, ONTARIO

DWG TITLE
PROPOSED SPRINKLER LAYOUT & DETAILS

DATE	DECEMBER, 2024	PROJECT NO.	24-15012
SCALE	1:50		
DWN BY	FC	DWG NO.	SP1
ISSUED FOR REVISION NO.			

NOTES: (RE-DEMOLITION LAYOUT)

1. SEE DEMOLITION LAYOUT NOTES ON THIS DRAWING.
2. TO SUIT CONSTRUCTION HOARDING, ELECTRICAL CONTRACTOR SHALL TEMPORARILY REMOVE EXISTING LIGHT FIXTURES, EMERGENCY HEADS, P.A. SPEAKERS, FIRE ALARM, SECURITY, CCTV, ETC. AND DISCONNECTED FROM EXISTING LIGHTING CIRCUITS/ZONES TO SUIT REMOVAL OF EXISTING CEILING DEVICES SHALL BE RE-INSTALLED/RE-CONNECTED AND LAYOUTS/SWITCHING ARRANGEMENT RESTORED TO PRE-CONSTRUCTION CONDITION. PRIOR TO RE-INSTALLATION UNITS SHALL BE CLEANED, TESTED FOR PROPER OPERATION AND DAMAGE ELECTRICAL EQUIPMENT REPLACED. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST ALL COMPONENTS TO SUIT NEW LOCATION. EXISTING LIGHT FIXTURES SHALL BE PROPERLY SUPPORTED WITH CHAIN TO SUIT NEW CODE REQUIREMENTS. COORDINATE WITH ARCHITECTURAL DRAWINGS AND PROJECT PHASE SCHEDULE. SEE DRAWING E2.
3. CUT/REMOVE EXISTING HORIZONTAL CELL RACEWAY TO SUIT NEW DOOR OPENING. EXISTING RACEWAY SHALL BE ADJUSTED TO SUIT ARCHITECTURAL MODIFICATION. EXACT LENGTH SHALL BE COORDINATED ON SITE. MAKE WIRING SAFE. EXISTING RACEWAY SHALL BE CONNECTED/ADJUSTED TO EXISTING CIRCUITS. COORDINATE EXACT WORK WITH ARCHITECT AND ON SITE. ADJUST ALL COMPONENTS TO SUIT.

1 PART GROUND FLOOR - DEMOLITION LAYOUT
E1 SCALE: 1:100

2 PART SECOND FLOOR - DEMOLITION LAYOUT
E1 SCALE: 1:100

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.
3. INSTALL FIRE ALARM SYSTEM IN ACCORDANCE WITH LATEST FIRE ALARM SYSTEM INSTALLATION CAN/ULC-5524-14.

3
E1 **TYPICAL INSTALLATION OF ELECTRICAL DEVICES**
SCALE: N.T.S.

The diagram illustrates the electrical wiring for a door operator system, divided into 'CEILING' and 'INSIDE' sections. Key components and connections include:

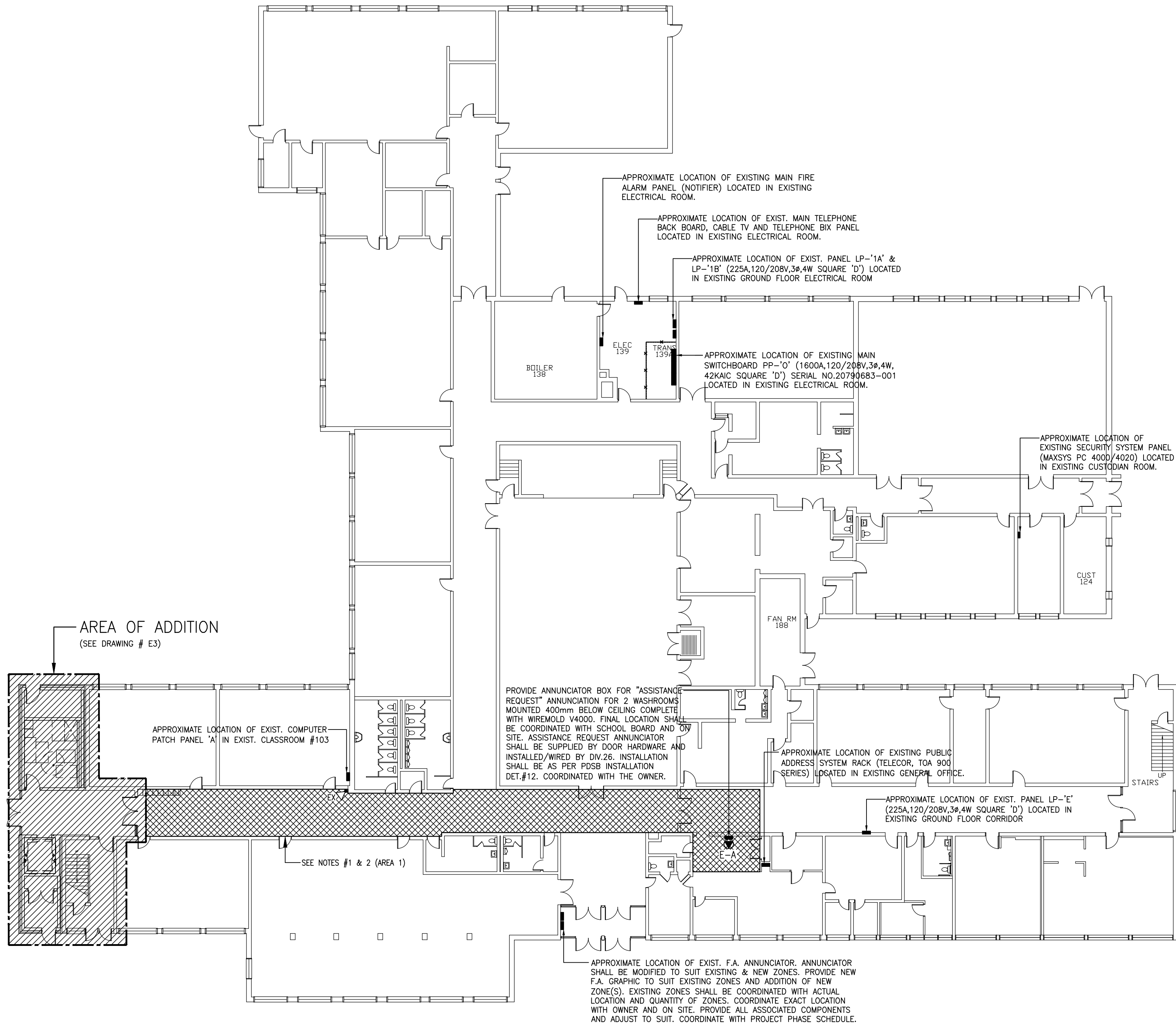
- CEILING:**
 - 27mmC complete with low voltage wiring to general office for "assistance request".
 - 120V associated power supply, refer to floor plan.
 - Door hardware power supply, supplied by door hardware supplier/installer and installed and connected by electrical division.
 - 12"x12"x6" junction box in ceiling space.
 - V8000 wireloom with divider, min. 6" above ceiling.
- INSIDE:**
 - 21mmC wiring from ceiling to door operator.
 - Door operator unit with "SEE NOTE #2" label.
 - Electric strike.
 - Double gang box for push for emergency assistance button & LED annunciator/sounder "assistance requested", refer to floor plan for location.
 - Deep single gang box for push to open button.
 - Deep single gang box for wave to lock button.
 - Outlet box for dome light and sounder "assistance required" loc. center above the door on corridor side.
 - Deep single gang box for LED key switch (TYP.).
 - 21mmC wiring from outlet box to switch.
 - Cut opening as per template provided by PSDS for illuminated push plate.
- Dimensions:**
 - 500mm (SEE NOTE #3) for the distance between the outlet box and the LED key switch.
 - 1000mm (SEE NOTE #3) for the distance from the push plate to the door operator.

NOTES :

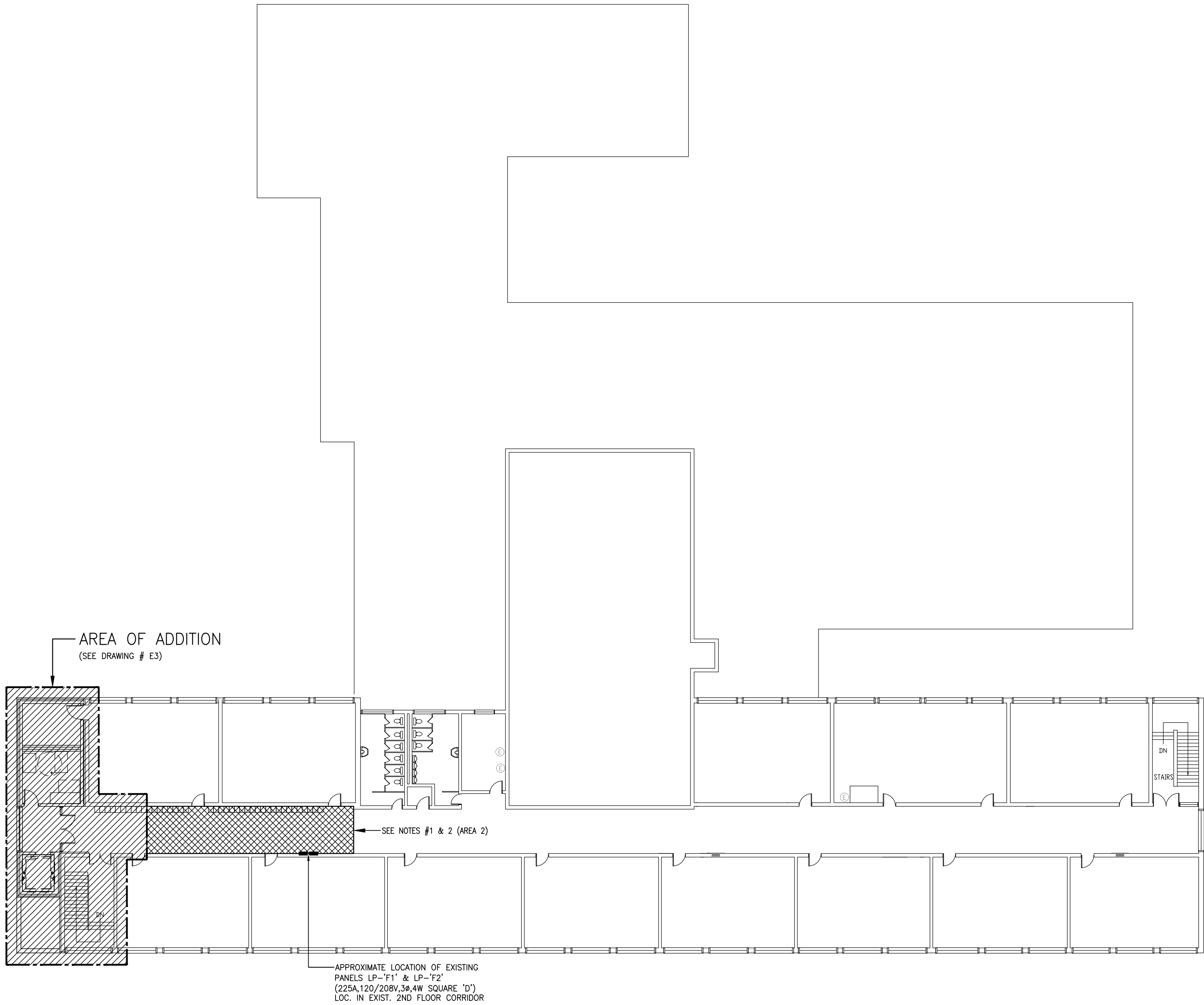
1. ALL CONDUITS ARE 21mm (3/4") UNLESS OTHERWISE NOTED.
2. LOCAL DOOR CONTACT FOR DOOR OPERATOR INTERLOCK OPERATION (THIS DOOR CONTACT IS NOT REQUIRED TO BE CONNECTED TO THE SECURITY SYSTEM)
3. COORDINATE EXACT LOCATION/MOUNTING HEIGHT OF OUTLETS WITH ARCHITECT/PSDS STANDARDS
4. ALL LOW VOLTAGE WIRING SHALL BE MINIMUM 10#18AWG, SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION. COORDINATE ALL WORK WITH DOOR HARDWARE INSTALLER ON SITE.
5. LOW VOLTAGE WIRING FROM B.F. WASHROOM EMERGENCY ASSISTANCE TO ANNUNCIATOR BOX LOCATED IN GENERAL OFFICE SHALL BE MINIMUM 2#14AWG, SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION. COORDINATE ALL WORK WITH DOOR HARDWARE INSTALLER ON SITE.

4 **B.F. W/R DOOR OPERATOR SCHEMATIC**
E1 SCALE: N.T.S.

	ELLARD-WILLSON ENGINEERING LTD	
	260 TOWN CENTRE BLVD., SUITE 202 MARKHAM ONTARIO L3R-8H8 T:(905)940-3100 F:(905)940-2139	
SCALE: AS SHOWN DATE: APR.25.2025		
DRAWN: R.R. CHECKED: R.R.		PROJECT: 24126 E1
PRINT DATE: CAD FILE:		

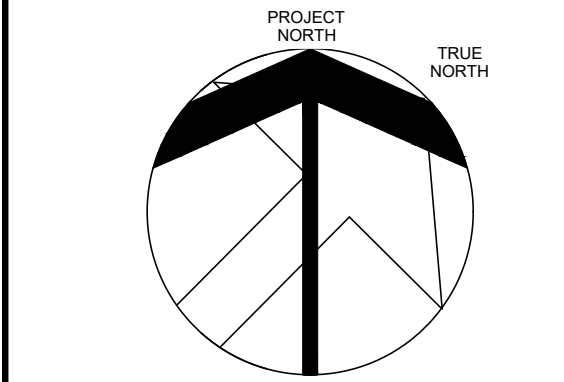


1 OVERALL FIRST FLOOR PLAN
E2 SCALE: 1:200

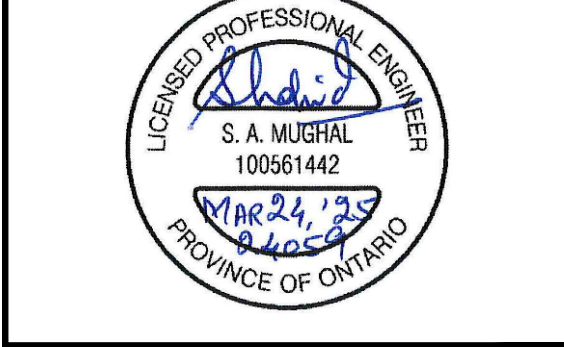


2 OVERALL SECOND FLOOR PLAN
E2 SCALE: 1:200

- NOTES:**
1. TO SUIT CONSTRUCTION HOARDING AND STRUCTURE WORK, ELECTRICAL CONTRACTOR SHALL TEMPORARILY DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES, EMERGENCY HEADS, P.A. SPEAKERS, SMOKE DETECTORS, MOTION DETECTOR, CCTV, ETC. FROM THIS AREA. ELECTRICAL EQUIPMENT SHALL BE TEMPORARILY DISCONNECTED FROM EXISTING CIRCUITS/ZONES AND TEMPORARILY REMOVED TO SUIT RENOVATION WORK/REMOVAL OF EXISTING CEILING. DEVICES SHALL BE RE-INSTALLED, RE-CONNECTED AND LAYOUTS/SWITCHING ARRANGEMENT RESTORED TO PRE-CONSTRUCTION CONDITION. PRIOR TO RE-INSTALLATION UNITS SHALL BE CLEANED, TESTED FOR PROPER OPERATION AND DAMAGE ELECTRICAL EQUIPMENT REPLACED. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST TO SUIT. COORDINATE ALL WORK WITH MECHANICAL DRAWINGS, ARCHITECTURAL DRAWINGS AND PROJECT PHASE SCHEDULE.
 2. IN FOLLOWING AREAS, ELECTRICAL CONTRACTOR SHALL TEMPORARILY DISCONNECT EXISTING CEILING MOUNTED ELECTRICAL EQUIPMENT/DEVICES AND REMOVE FROM THEIR LOCATIONS AND RE-INSTALL TO THE ORIGINAL LOCATIONS AND CONNECT TO THE SAME EXISTING ELECTRICAL CIRCUITS OR ZONE CIRCUITS AFTER COMPLETION/INSTALLATION OF NEW ELECTRICAL FEEDERS AND EXISTING CEILING (PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST TO SUIT). PROVIDE VERIFICATION REPORT OF ALL SYSTEMS BEING REMOVE/RE-INSTALL.
- | -IN EXISTING AREA 1: | -IN EXISTING AREA 2: |
|-------------------------------|-------------------------------|
| 1. 1X4 LIGHT FIXTURES | 5. 1X4 LIGHT FIXTURES |
| 6. P.A. SPEAKER | 3. P.A. SPEAKER |
| 6. EMERGENCY HEAD | 3. EMERGENCY HEAD |
| 4. EMERGENCY EXIT SIGNS | 2. EMERGENCY EXIT SIGNS |
| 6. FIRE ALARM SMOKE DETECTORS | 3. FIRE ALARM SMOKE DETECTORS |



2	ISSUED FOR TENDER	APR. 2025
1	ISSUED FOR BUILDING PERMIT	DEC. 1924
NO.	ISSUED	DATE
DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT. AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.		



ADDITION TO ALLAN A MARTIN PUBLIC SCHOOL

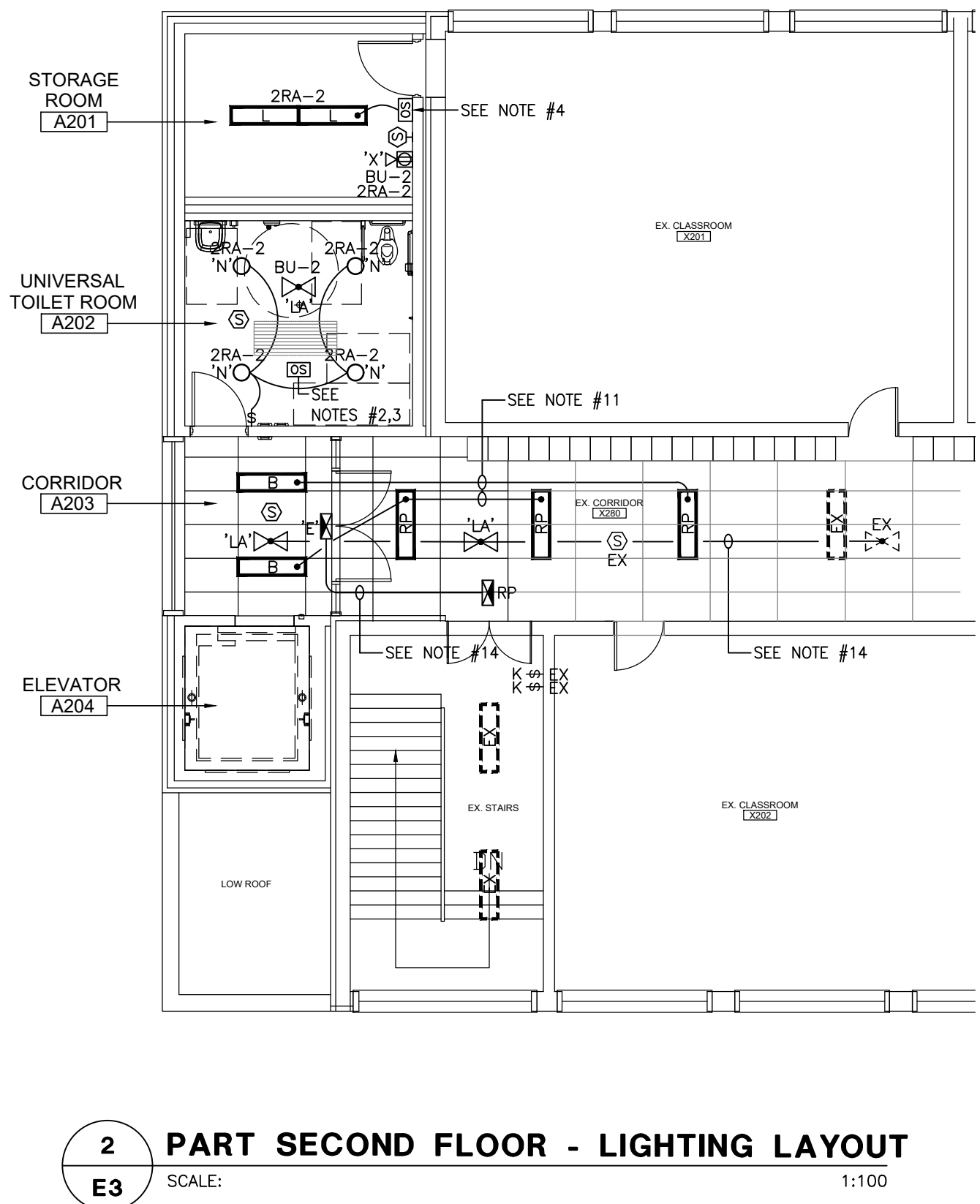
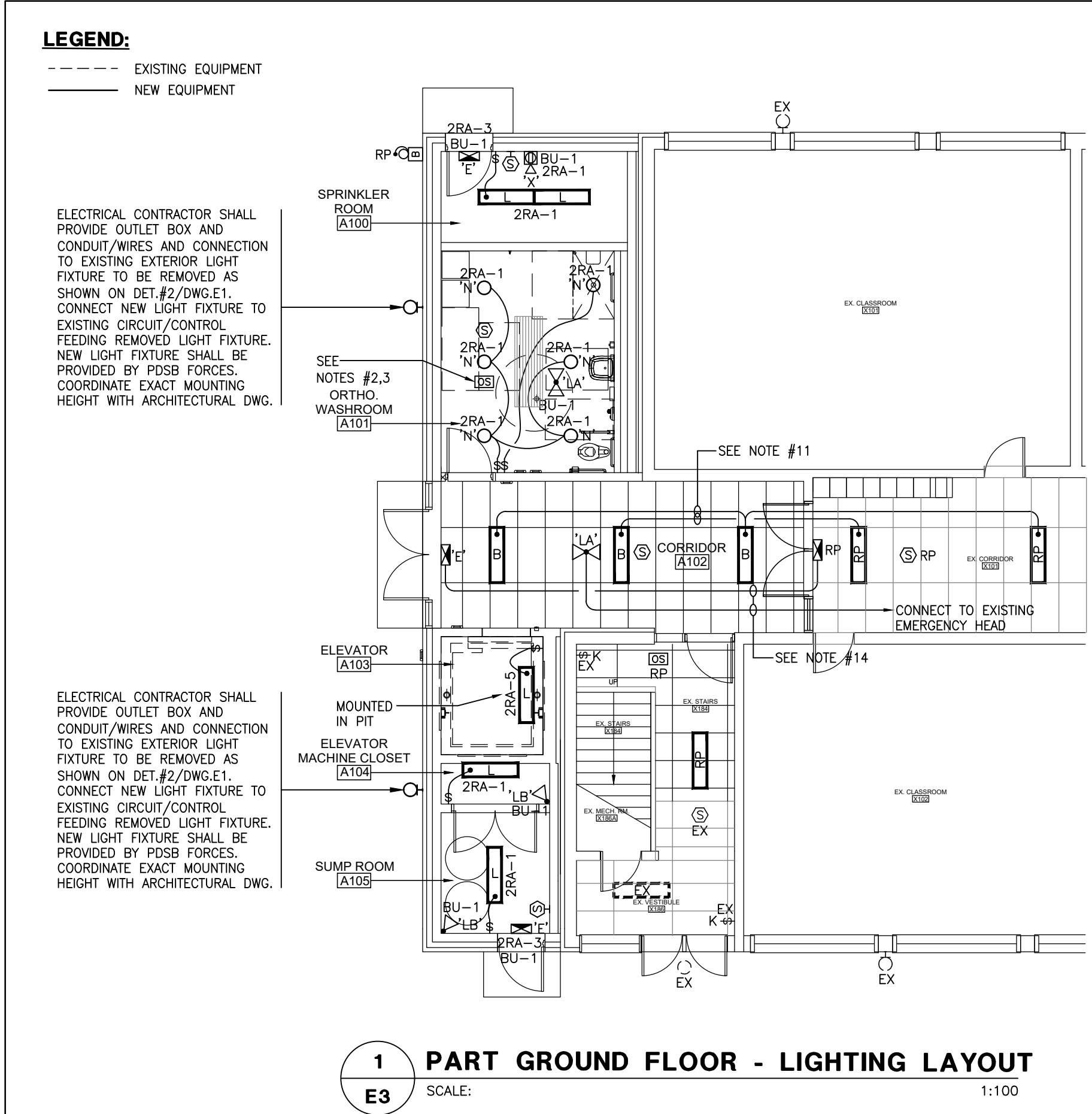
peel District School Board
3546 SOUTH COMMON COURT,
MISSISSAUGA, ON L5L 2B1

ELECTRICAL OVERALL KEY PLAN

POSB TENDER #

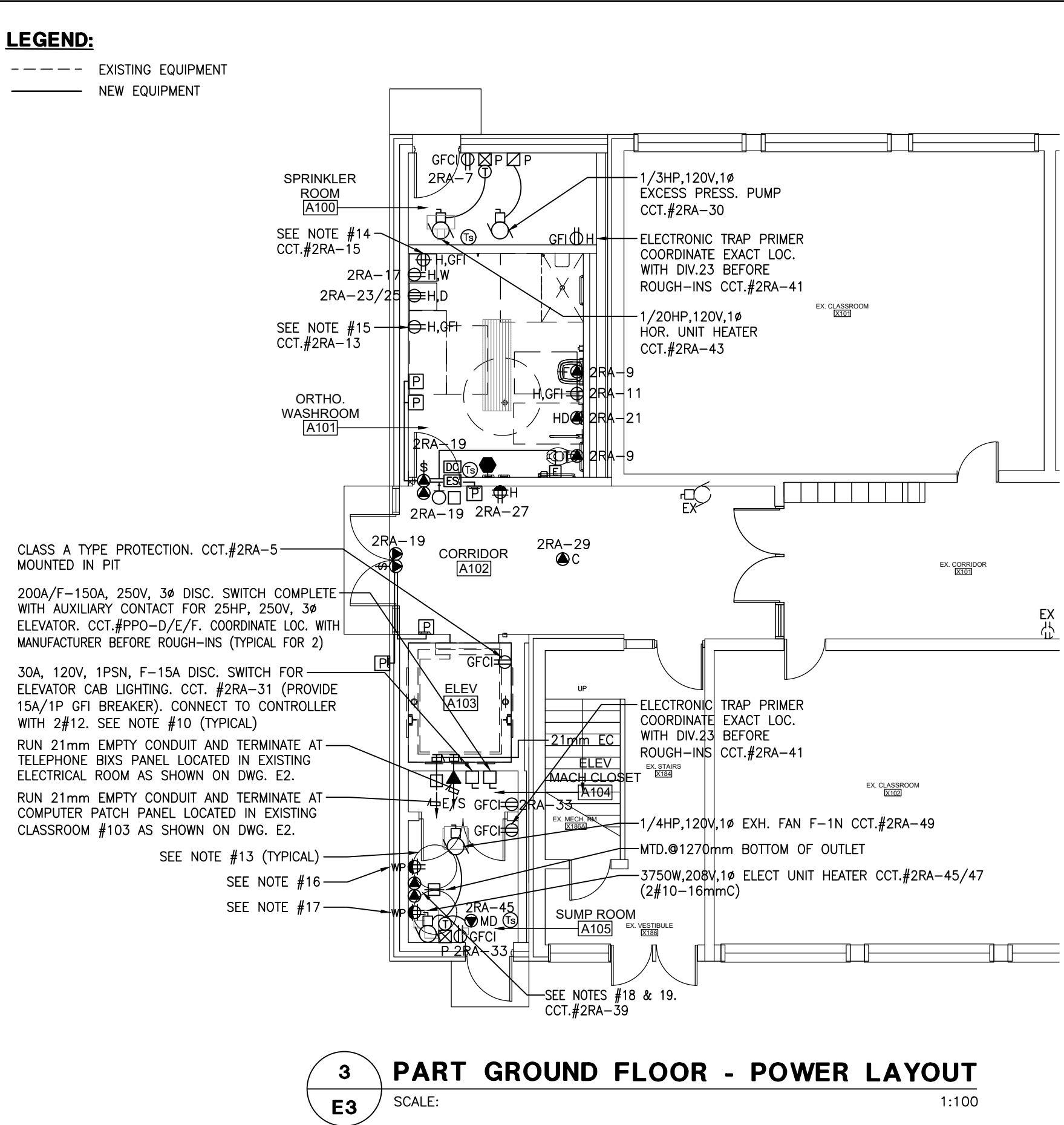
ELLARD - WILLSON ENGINEERING LTD
260 TOWN CENTRE BLVD., SUITE 202
MARKHAM ONTARIO L3R-6H8
T:(905)940-5100 F:(905)940-2139

SCALE	PROJECT
AS SHOWN	24126
DATE	APR. 25, 2025
DRAWN	DRAWING
CHECKED	R.R.
PRINT DATE	E2
CAD FILE	



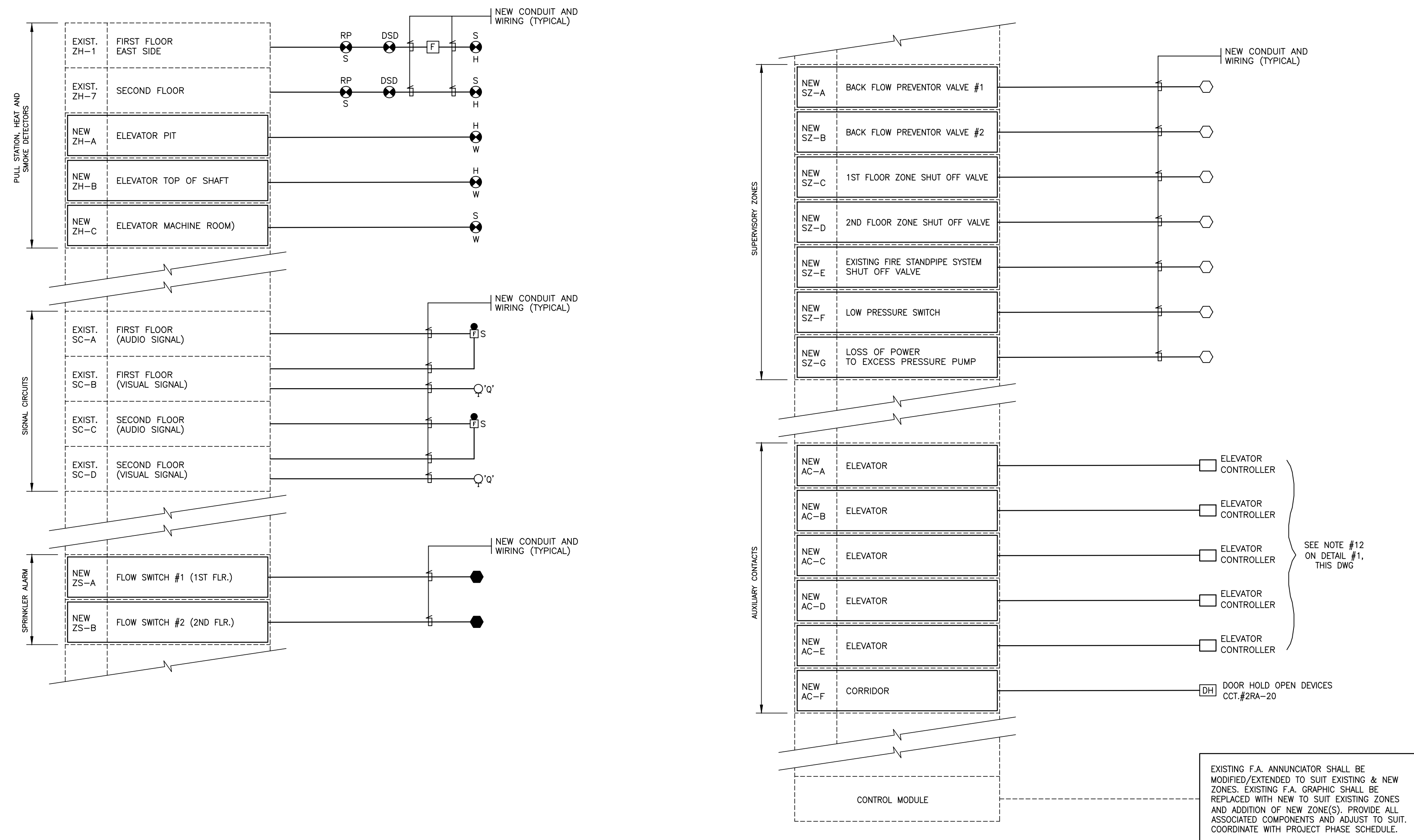
NOTES: (RE-LIGHTING LAYOUT)

- INCLUDE IN TENDER PRICE SUPPLY AND INSTALLATION OF 2 TYPE 'E' EXIT SIGNS C/W 15000mm OF CONDUIT AND WIRING AND CONNECTION TO THE NEAREST EXIT SIGN.
- PROVIDE OCCUPANCY SENSOR EATON, CAT. QAO-QT-1000-B, WHICH SHALL TURN-OFF CORRESPONDING LIGHT FIXTURES WHEN LIGHT SWITCH(S) IS (ARE) IN "ON" POSITION AND SPACE IS NOT OCCUPIED AND TURN THEM BACK "ON" WHEN SPACE OCCUPIED. EXACT LOCATION OF OCCUPANCY SENSOR SHALL BE COORDINATED ON SITE AND SHALL COMPLY WITH MANUFACTURER RECOMMENDATION. PROVIDE ALL NECESSARY EQUIPMENT TO SUIT. PROVIDE NUMBER OF POWER PACK(S) TO SUIT NUMBER OF CIRCUIT(S) IN ROOM.
- ELECTRICAL CONTRACTOR SHALL PROVIDE LIGHT SWITCH FOR WASHROOM SENSOR (WALL MOUNTED IN CORRIDOR CEILING SPACE ABOVE LIGHT SWITCH) WHICH SHALL OVERRIDE (BY PASS) OCCUPANCY SENSOR/POWER PACK(S) IN CASE OF THEIR FAILURE. PROVIDE ASSOCIATED LAMACODI PLATE ON SWITCH AND 1-BAR GRID BELOW SWITCH. ADJUST ALL COMPONENTS TO SUIT.
- PROVIDE OCCUPANCY SENSOR, EATON, CAT. ONW-D-1001-MV, WALL SWITCH VACUANCY SENSOR (MANUAL-ON/AUTOMATIC-OFF CONTROL) WHICH SHALL TURN OFF ASSOCIATED LIGHT FIXTURES WHEN SPACE IS NOT OCCUPIED. PROVIDE ALL NECESSARY EQUIPMENT TO SUIT.
- EXISTING LIGHTING LAYOUT SHALL REMAIN UNLESS SHOWN OTHERWISE.
- FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.
- COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
- EXISTING PANEL NAMES AND THEIR CIRCUIT NUMBERS ARE SHOWN FOR REFERENCE AND INTENT ONLY. EXACT PANEL NAMES AND CIRCUIT NUMBERS SHALL BE VERIFIED BY ELECTRICAL CONTRACTOR ON SITE.
- EXISTING EMERGENCY LIGHTING SYSTEM SHALL BE OPERATIONAL AT ALL TIMES.
- IN EXISTING AREAS, WHERE EXISTING WALLS ARE NOT ACCESSIBLE ANY NEW SURFACE ELECTRICAL WIRES SHALL BE IN SHALLOW TYPE RACEWAY. SURFACE MOUNTED CONDUIT IS NOT ACCEPTABLE.
- PROVIDE NEW CONDUIT COMPLETE WITH WIRING AND CONNECT NEW CORRIDOR LIGHT FIXTURE TO THE EXISTING CORRIDOR LIGHT CIRCUIT(S) AS SHOWN. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST TO SUIT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE THEIR OWN CERTIFICATE FOR EMERGENCY LIGHTING AND REPORT OF EMERGENCY LIGHTING LEVELS MEASUREMENT BY MANUFACTURERS.
- FOR ALL SPEAKER'S BACK BOXES LOCATED IN DRYWALL AREAS, RUN 21mm EC AND TERMINATE IN THE CORRIDOR ACCESSIBLE CEILING SPACE (TYPICAL).
- PROVIDE NEW CONDUIT COMPLETE WITH WIRING AND CONNECT NEW EMERGENCY HEAD/EXIT LIGHT TO THE EXISTING EMERGENCY HEAD/EXIT LIGHT CIRCUIT AS SHOWN. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST TO SUIT.



LEGEND:

----- EXISTING EQUIPMENT
----- NEW EQUIPMENT



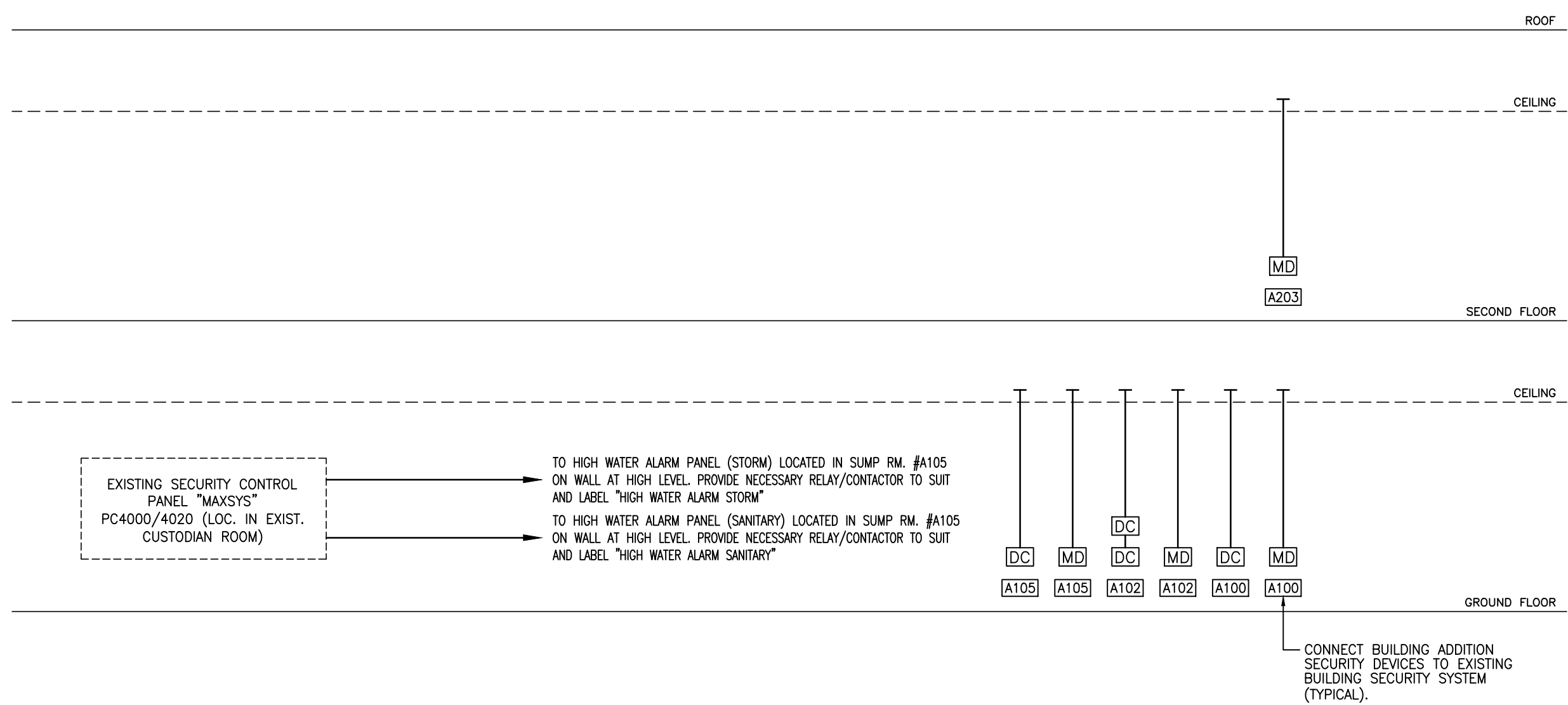
NOTES :

1. PROVIDE NEW F.A. PASSIVE GRAPHIC TO SUIT EXISTING F.A. ZONES, ADDITION OF NEW ZONES AND ARCHITECTURAL MODIFICATIONS TO THE BUILDINGS.
2. EXISTING FIRE ALARM CONTROL PANEL AND FIRE ALARM ANNUNCIATOR SHALL BE MODIFIED/EXTENDED TO SUIT EXISTING AND ADDITION OF NEW ZONES.
3. OBTAIN APPROVED FINAL ROOM NAMES AND NUMBERS AND ARCHITECTURAL DRAWINGS BEFORE ANY PROGRAMMING OF FIRE ALARM CONTROL PANEL OR ORDERING PASSIVE GRAPHICS AND MODIFY FIRE ALARM ANNUNCIATOR TO SUIT.
4. ALL WIRING SHALL BE RUN IN CONDUIT AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. AFTER COMPLETION OF F.A. SYSTEM, PROVIDE F.A. SYSTEM VERIFICATION BY F.A. SYSTEM MANUFACTURER/INSTALLER (PART OF THIS CONTRACT).
6. INCLUDE IN THE TENDER PRICE FOR THE SUPPLY, INSTALLATION AND VERIFICATION OF ADDITIONAL 1 FIRE ALARM CONE SPEAKER COMPLETE WITH STROBE LIGHT COMBINATION C/W 15,000 mm OF CONDUIT/WIRING AND CONNECTION TO THE NEAREST CONE SPEAKER COMPLETE WITH STROBE LIGHT COMBINATION.
7. INCLUDE IN THE TENDER PRICE FOR THE SUPPLY, INSTALLATION AND VERIFICATION OF ADDITIONAL 1 FIRE ALARM SMOKE DETECTOR C/W 15,000 mm OF CONDUIT/WIRING AND CONNECTION TO THE NEAREST SMOKE DETECTOR.
8. FIRE ALARM ZONE NUMBERS/AUXILIARY CONTACT AND SIGNAL CIRCUIT NUMBERS ARE SHOWN FOR REFERENCE AND INTENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY ON SITE EXACT NUMBERS. ADJUST ALL COMPONENTS TO SUIT.
9. EXISTING F.A. SYSTEM IN EXISTING SCHOOL SHALL BE OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
10. FOR EXACT QUANTITY OF FIRE ALARM DEVICES, REFER TO FLOOR PLANS. INCLUDE AS PART OF THIS CONTRACT ALL FIRE ALARM DEVICES THAT HAVE BEEN RELOCATED/RE-WIRED/REWORKED AS PART OF THE FIRE ALARM REPORT/VERIFICATION. PROVIDE FIRE DEVICES VERIFICATION AND REPORT TO ALL DEVICES ALTERED IN THE EXISTING SCHOOL AND NEW IN THE ADDITIONAL.
11. ALL EXISTING CONNECTION TO EXISTING F.A. SYSTEM NOT AFFECTED BY THIS RENOVATION SHALL REMAIN. COORDINATE ON SITE.
12. SMOKE/HEAT DETECTORS SHALL BE INSTALLED TO PROVIDE OUTPUTS FROM THE FIRE ALARM SYSTEM TO THE ELEVATOR CONTROLLER TO AUTOMATICALLY INITIATE PHASE 1 EMERGENCY RECALL OPERATION AND SHALL BE LOCATED IN:
 - A) AT GROUND FLOOR SERVED BY THE ELEVATOR.
 - B) AT SECOND FLOOR SERVED BY THE ELEVATOR.
 - C) IN THE ASSOCIATED ELEVATOR MACHINE ROOM AND ELEVATOR SHAFT.
 - D) TOP OF THE SHAFT.
13. IN ACTUATION OF ANY ALARM ZONE, AC-F SHALL RELEASE DOOR HOLDERS.
14. PROVIDE NECESSARY ADDITIONAL MODULES, RELAYS, POWER SUPPLY, AMPLIFIERS ETC. TO ACCOMMODATE FIRE ALARM STROBE LIGHTS CIRCUITS. ANY ADDITIONAL EXTRA WILL NOT BE ACCEPTED IF THIS IS NOT REVIEWED PROPERLY.
15. PROVIDE NECESSARY ADDITIONAL ANNUNCIATOR STRIP TO ACCOMMODATE ADDITIONAL ZONES ANNUNCIATION.
16. ALL NEW DEVICES SHALL MATCH EXISTING (QUANTITY OF DEVICES SHALL BE AS PER DWG.)
17. FOR MORE INFORMATION REFER TO ELECTRICAL SPECIFICATION.

1 PART EXISTING FIRE ALARM SYSTEM RISER DIAGRAM
E4 MAIN F.A. CONTROL PANEL (NOTIFIER) LOCATED IN EXISTING ELECTRICAL ROOM AS SHOWN ON E2 DWG.

LEGEND:

----- EXISTING EQUIPMENT
----- NEW EQUIPMENT



NOTES :

1. PROVIDE CONDUITS, JUNCTION BOXES, OUTLET BOXES, MOTION DETECTORS, DOOR CONTACTS, WIRING, ETC. AND CONNECT TO EXISTING MAIN SECURITY SYSTEM CONTROL PANEL AS INDICATED ON FLOOR PLANS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND SPECIFICATION.
2. COORDINATE WORK WITH ARCHITECT AND SECURITY SYSTEM SUPPLIER.
3. FOR EXACT LOCATION AND QUANTITY OF DEVICES REFER TO FLOOR PLANS.
4. ALL CONDUITS SHALL BE 21mm UNLESS NOTED OTHERWISE.
5. ALL CONDUITS SHALL BE TERMINATED IN ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE. TERMINATION OF CONDUITS IN EXPOSED OR DRYWALL CEILING AREAS IS NOT ACCEPTABLE.
6. RUN SECURITY SYSTEM WIRING IN CONDUITS, FREE RUN IN CEILING SPACE SLEEVES AND CORRIDOR DUAL HANGERS. PROVIDE J-HOOKS AS REQUIRED, TYPICAL.
7. FOR MORE INFORMATION REFER TO SPECIFICATIONS

2 PART EXISTING SECURITY SYSTEM RISER DIAGRAM
E4 SCALE: N.T.S.

LEGEND:

----- EXISTING EQUIPMENT
----- NEW EQUIPMENT

EXISTING LIGHTING PANEL SCHEDULE (PROVIDE NEW BREAKERS IN EXISTING PANELS AS SHOWN. NEW BREAKERS SHALL MATCH EXISTING. ADJUST ALL COMPONENTS TO SUIT)						
LIGHTING PANEL	LOCATION	NO. 15A-1P BREAKERS AND THEIR CIRCUITS	NO. 20A-1P BREAKERS AND THEIR CIRCUITS	NO. OF OTHER BREAKERS AND THEIR CIRCUITS	NO. 15A-1P SPARE BREAKERS AND THEIR CIRCUITS	NO. 20A-1P SPARE BREAKERS AND THEIR CIRCUITS
LP-E	EXISTING GRD FLOOR CORRIDOR	1 (CCT'S.#A)	-----	-----	-----	-----
EXISTING SQUARE '0' 225A, 42CCT'S, 120/208V, 3ø, 4W FLUSH MOUNTED PANEL						

NEW LIGHTING PANEL SCHEDULES						
LIGHTING PANEL	LOCATION	NO. 15A-1P BREAKERS AND THEIR CIRCUITS	NO. 20A-1P BREAKERS AND THEIR CIRCUITS	NO. OF OTHER BREAKERS AND THEIR CIRCUITS	NO. OF SPARE BREAKERS AND THEIR CIRCUITS	REMARKS
LP-'2RA'	NEW STORAGE ROOM #A201	26 (CCT'S.#3 TO 19,29,35, 39,41,43,46,4 TO 14, 20,22,24,26,32)	8 (CCT'S.#1,27,35,37,2; 16,30)	1-15A/1P GF BRKR (CCT.#31) 2-20A/1P GF BRKR (CCT.#21,16) 1-25A/2P BRKR (CCT.#45/47) 1-30A/2P BRKR (CCT.#52/25)	3-20A/1P (CCT'S.#44,46,48) 3-15A/1P (CCT'S.#50,52,54)	225A MAINS, 54 CCT'S, 120/208V, 3ø, 4W, 1/4"KAC SURFACE MOUNTED 'NOOD' PANEL (SHALL MATCH EXISTING)

1. PROVIDE 1-25mm EC UP TO CEILING SPACE FROM ALL PANELS.
2. ALL PANEL DIRECTORIES (FOR NEW AND EXISTING AFFECTED BY THIS RENOVATION) SHALL REFER TO ARCHITECTURAL ROOM NUMBER AND NEW SCHOOL ROOM NUMBERS IN BRACKETS. PROVIDE TYPE WRITTEN UPDATED DIRECTORIES FOR ALL EXISTING PANEL AFFECTED BY THIS RENOVATION.
3. ALL PANEL DIRECTORIES SHALL REFER TO ARCHITECTURAL ROOM NUMBERS AND NEW SCHOOL ROOM NUMBERS IN BRACKETS (COORDINATE WITH THE SCHOOL BOARD).
4. FLUSH MOUNTED PANELS SHALL BE FULLY GASKETED AND WITHOUT DRIP SHIELD.

3 PANEL SCHEDULES
E4 SCALE: N.T.S.

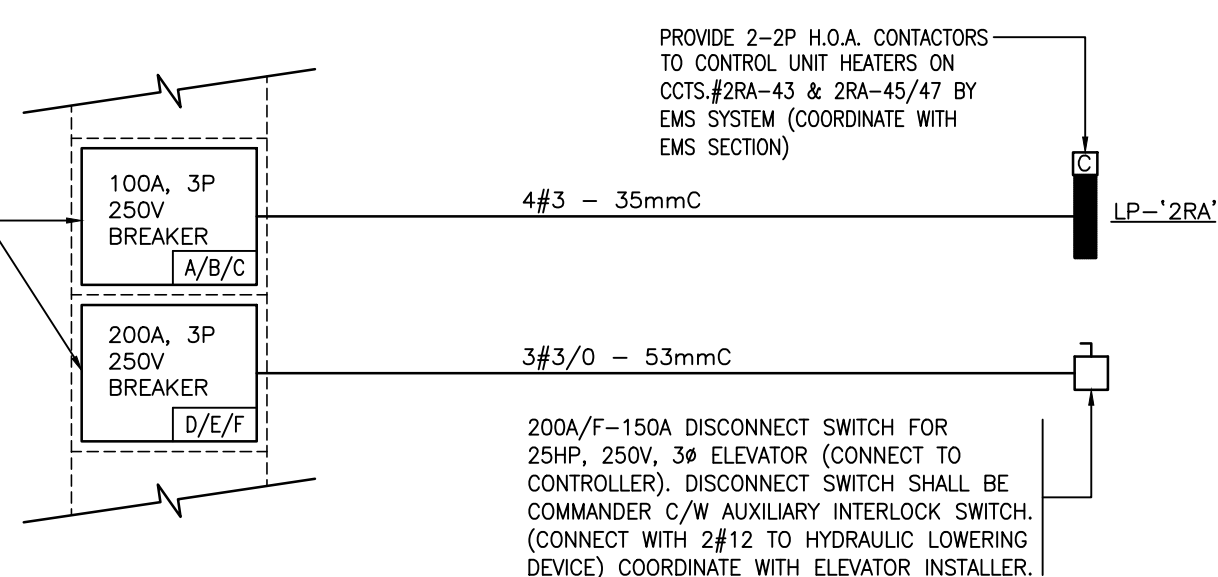
LEGEND:

----- EXISTING EQUIPMENT
----- NEW EQUIPMENT

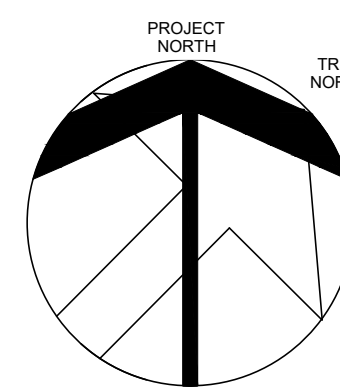
NOTE :

1. ELECTRICAL CONTRACTOR SHALL SCHEDULE MAIN SWITCHBOARD SHUTDOWN WITH SCHOOL BOARD. ELECTRICAL CONTRACTOR SHALL INCLUDE ALL ASSOCIATED COST. IF SCHOOL BOARD ASK THE MAIN SWITCHBOARD SHUTDOWN IN A WEEKEND OR A STATUTORY HOLIDAY.

PROVIDE NEW BREAKERS COMPLETE WITH ALL ASSOCIATED COMPONENTS IN EXISTING POWER PANEL PP-0 AS SHOWN. KAC RATING SHALL MATCH EXISTING.

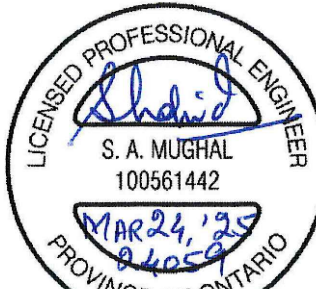


4 PART OF EXISTING MAIN SWITCHBOARD PP-'0'
E4 1600A, 120/208V, 3ø, 4W 42KAC SQUARE '0' (LOCATED IN EXISTING MAIN ELECTRICAL ROOM)



2	ISSUED FOR TENDER	APR.2025
1	ISSUED FOR BUILDING PERMIT	DEC.1924
NO	ISSUED	DATE

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



ADDITION TO ALLAN A MARTIN PUBLIC SCHOOL

peel District School Board
3546 SOUTH COMMON COURT,
MISSISSAUGA, ON L5L 2B1

ELECTRICAL
RISER DIAGRAMS

POSB TENDER #

ELLARD-WILLSON
ENGINEERING LTD
260 TOWN CENTRE BLYD., SUITE 202
MARKHAM ONTARIO L3R-6H8
T:(905)940-5100 F:(905)940-2139

SCALE	PROJECT
AS SHOWN	24126
DATE	APR.25.2025
DRAWN	R.R.
CHECKED	R.R.
PRINT DATE	E4
CAD FILE	

ELECTRICAL SPECIFICATION

1. GENERAL

- 1. PROVIDE ALL EQUIPMENT, MATERIALS, LABOUR AND SERVICES TO COMPLETE ELECTRICAL SYSTEMS GENERALLY AS SHOWN ON THE DRAWINGS AND/OR DESCRIBED HEREINAFTER.
- 2. ALL WORK SHALL CONFORM TO C.S.A., N.B.C., LOCAL MUNICIPAL AND PROVINCIAL LAWS AND REGULATIONS.
- 3. BEFORE FINAL PAYMENT IS MADE, AN UNCONDITIONAL PROVINCIAL INSPECTION DEPARTMENT CERTIFICATE SHALL BE GIVEN TO THE OWNER, INDICATING THAT ALL PARTS OF THE ELECTRICAL SYSTEM MEET ONTARIO E.S.A. APPROVAL.
- 4. MAINTAIN SUCH INSURANCE AS WILL FULLY PROTECT BOTH THE OWNER AND FROM ANY AND ALL CLAIMS UNDER THE WORKMAN'S COMPENSATION ACT, ALSO ALL INSURANCE AS NOTED WITHIN GENERAL CONDITIONS.

2. REGULATIONS

- 1. COMPLETE INSTALLATION SHALL CONFORM WITH APPLICABLE CODES, BY-LAWS AND REGULATIONS.
- 2. COMPLY WITH ALL REQUIREMENTS AND STANDARDS OF THE LOCAL AUTHORITIES.

3. PERMITS, FEES AND INSPECTIONS

- 1. APPLY AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.

4. SHOP DRAWINGS

- 1. SUBMIT SIX (6) COPIES OF SHOP DRAWINGS OF EACH PIECE OF MANUFACTURED EQUIPMENT FOR ARCHITECT AND CONSULTANT'S REVIEW.

5. INSTRUCTIONS AND DATA BOOKS

- 1. PROVIDE THE SERVICES OF COMPETENT PERSONNEL TO INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF THE EQUIPMENT.
- 2. PREPARE, NEATLY TYPEWRITTEN OPERATING INSTRUCTIONS, ASSEMBLE INTO THREE (3) DATA BOOKS WITH ONE COPY OF EACH SHOP DRAWING AND ALL EQUIPMENT, MAINTENANCE AND OPERATING INFORMATION.
- 3. PROVIDE 1 HARD COPY OF THE DATA BOOKS AND 1 SOFT COPY VIA USB KEY.

6. INSURANCE

- 1. MAINTAIN ALL NECESSARY INSURANCE TO PROTECT THE OWNER AND THE TRADES OF THIS DIVISION FROM ALL POSSIBLE CLAIMS.

7. GUARANTEE

- 1. THE GUARANTEE PERIOD SHALL EXTEND ONE (1) YEAR FROM THE DATE OF ISSUE OF "SUBSTANTIAL COMPLETION" CERTIFICATE. ALL REPAIRS DURING THIS PERIOD ARE THE RESPONSIBILITY OF THIS DIVISION AT NO COST TO THE OWNER.

8. IDENTIFICATION OF EQUIPMENT

- 1. ALL ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED BY MEANS OF BLACK LAMICOID PLATES WITH WHITE LETTERING INDICATING FUNCTION OF EQUIPMENT AND SERIAL NUMBER.
- 2. IDENTIFY ALL JUNCTION BOXES WITH PANEL AND CIRCUIT NUMBERS WHERE THEY ARE FED FROM.
- 3. THE INTERIOR, EXTERIOR AND UDS. OF ALL OUTLET BOXES SHALL BE NEATLY IDENTIFIED WITH DIFFERENT COLOURS OF PAINT. THE COLOUR SHALL BE CONSISTENT THROUGHOUT THE PROJECT AND SHALL MATCH EXISTING.
 - Orange
 - Black
 - White
 - Yellow
 - Brown
 - Red
 - Green
 - Blue

* For colours co-ordinate with School Board.

9. CLEANING

- 1. ALL EQUIPMENT SHALL BE CLEANED DURING CONSTRUCTION AND THOROUGHLY CLEANED ON COMPLETION OF THE CONTRACT.

10. CO-ORDINATION

- 1. CONFER WITH ALL OTHER TRADES AND ARRANGE EQUIPMENT IN PROPER RELATION WITH OTHER APPARATUS, DUCTS, PIPES, ETC. AND WITH BUILDING CONSTRUCTION AND CONSULTANT FINISHES.
- 2. COORDINATE ROUTING OF CONDUITS FOR ANY FLOOR BOX WITH THE SPACE BELOW AND THE OWNER PRIOR TO INSTALLATION OF FLOOR BOX.
- 3. COORDINATE ANY SCHEDULED POWER SHUTDOWNS WITH THE OWNER PRIOR TO COMMENCING WORK.

11. TEMPORARY AND TRIAL USAGE

- 1. THE OWNER RESERVES THE RIGHT OF TRIAL OR TEMPORARY USAGE PRIOR TO ACCEPTING THE INSTALLATION.

12. EXISTING CONDITIONS

- 1. VISIT THE SITE AND EXAMINE EXISTING CONDITIONS AFFECTING THE WORK.

- 2. CAREFULLY EXAMINE STRUCTURAL, MECHANICAL AND ARCHITECTURAL DRAWINGS, AND FULLY UNDERSTAND THE FUNCTIONING OF THE SYSTEM DESCRIBED AND SPECIFIED UNDER THIS SECTION. IF IN DOUBT, CONTACT THE ENGINEER BEFORE SUBMITTING THE TENDER PRICE.

- 3. NO ALLOWANCE WILL BE ALLOWED LATER DUE TO FAILURE OF THIS DIVISION TO MAKE VISIT TO SITE AND THIS EXAMINATION.

- 4. EXISTING ELECTRICAL EQUIPMENT WHICH BECOMES REDUNDANT SHALL BE COMPLETELY DISCONNECTED AND REMOVED FROM THE SITE.

- 5. WHERE INDICATED ON THE DRAWINGS REMOVE EQUIPMENT CAREFULLY AS NOT TO CAUSE DAMAGE AND TRANSPORT IT TO A LOCATION ON SITE AS DESIGNATED BY THE GENERAL CONTRACTOR.

- 6. WHENEVER EXISTING ELECTRICALLY OPERATED EQUIPMENT IS REMOVED FROM ITS PRESENT LOCATION OR REINSTALLED ELSEWHERE, REMOVE REDUNDANT EXISTING CONDUITS, BOXES, CABLES, FIXTURES ETC. AND OPENINGS IN BOXES, RACEWAYS, PANEL ETC. WHICH MAY RESULT FROM SUCH REMOVAL OF EQUIPMENT, SHALL BE CLOSED IN PROPER MANNER AND ALL CABLES AND WIRES PROPERLY TERMINATED AND ISOLATED TO RESTORE THE SYSTEM TO A SAFE AND SOUND CONDITION AND TO THE ARCHITECT'S SATISFACTION.

- 7. 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 THE TEMPORARILY RELOCATED EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.

- 8. TEST ALL PARTS OF THE RE-USED OR RELOCATED ELECTRICAL EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDINGS.

- 9. UNDER ALL CONDITIONS, EXISTING ELECTRICAL SERVICES, INCLUDING AUXILIARY SERVICES, SECURITY, COMPUTER, E.A. SYSTEMS ETC. TO BE OPERATING PARTS OF THE BUILDING SHALL BE MAINTAINED IN GOOD CONDITION AND TO THAT EFFECT, NECESSARY WORK MAY HAVE TO BE CARRIED OUT ON OVERTIME BASIS.

- 10. COORDINATE WITH GENERAL CONTRACTOR REGARDING SCAFFOLDING IN EXISTING BUILDING.

13. CHASSES, OPENINGS, ETC.

- 1. PROVIDE FOR OPENINGS IN WALLS, FLOORS, CEILINGS AND ROOFS AS REQUIRED, AND MAKE GOOD.
- 2. FLASHING REQUIRED FOR OPENINGS IN WALLS, FLOORS AND ROOFS WILL BE PROVIDED BY THIS DIVISION, UNLESS OTHERWISE NOTED.
- 3. DRILLING FOR HANGERS, RODS, INSERTS AND WORK OF A SIMILAR NATURE SHALL BE PROVIDED BY THIS DIVISION.
- 4. PATCHING REQUIRED FOR WORK BY THIS DIVISION, UNLESS NOTED OTHERWISE, WILL BE BY THIS DIVISION TO COMPLETE SATISFACTION OF THE ARCHITECT AND CONSULTANT.
- 5. X-RAY RE-INFORCED CONCRETE SLAB AND SLAB ON GRADE BEFORE CORE DRILLING/SAW CUTTING. COORDINATE WITH THE OWNER/GENERAL CONTRACTOR FOR TIME SCHEDULE.
- 6. FAILURE TO COMPLY WITH THE ABOVE REQUIREMENTS SHALL BE REMEDIATED AT THIS DIVISION'S EXPENSE.

14. SLEEVES

- 1. PROVIDE SLEEVES OF GALVANIZED STEEL PIPE WITH MACHINE CUT ENDS OF AMPLE SIZE TO ACCOMMODATE CONDUITS PASSING THROUGH WALLS, PARTITIONS, CEILINGS, ROOFS, FLOORS, ETC.
- 2. THE SPACE BETWEEN THE SLEEVE AND THE CONDUIT AND SPARE SLEEVES SHALL BE FILLED WITH LOW CORNING SILICONE RTV FOAM FOR FIRE STOP, CAULK AROUND THE TOP AND BOTTOM WITH APPROVED PERMANENTLY RESILIENT, NONFLAMMABLE AND WEATHERPROOF SILICONE BASE COMPOUND.
- 3. LOCATE AND POSITION SLEEVES EXACTLY PRIOR TO CONSTRUCTION OF WALLS, FLOORS, ETC.
- 4. FAILURE TO COMPLY WITH THE ABOVE REQUIREMENTS SHALL BE REMEDIATED AT THIS DIVISION'S EXPENSE.

15. RECORD DRAWINGS

- 1. OBTAIN AND PAY FOR TWO SETS OF WHITE PRINTS AND MARK CLEARLY AND NEATLY ALL CHANGES IN CONDUIT RUNS, LOCATION OF EQUIPMENT OR FIXTURES AND REVISIONS MADE BY ADDENDUMS, CHANGE ORDERS AND SITE INSTRUCTIONS.
- 2. THE RECORD DRAWINGS SHALL BE KEPT ON SITE AND SHALL BE AVAILABLE FOR REVIEW BY THE ARCHITECT/CONSULTANT.
- 3. THE RECORD DRAWINGS SHALL SHOW ALL CONDUIT, WIRING DIAGRAMS AND CONDUCTOR RUNS FOR ALL SYSTEMS INCLUDING SIZES, TYPES OF COMPONENTS, CIRCUIT NUMBERS, ETC. EXACTLY AS INSTALLED.
- 4. PRIOR TO REQUESTING FINAL INSPECTION SUBMIT ONE SET OF MARKED-UP PRINTS FOR REVIEW BY THE CONSULTANT.
- 5. REVIEW OF THE RECORD DRAWINGS BY THE CONSULTANT SHALL BE FOR GENERAL CONFORMANCE ONLY AND IS NOT AN APPROVAL OF THE ACCURACY OF THE DRAWINGS. THIS DIVISION SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE RECORD DRAWINGS.
- 6. AFTER REVIEW BY THE CONSULTANT, REQUEST ONE SET OF CAD DISKS AND PAY (\$350.00), AND TRANSFER ALL THE RECORDED INFORMATION FROM THE WHITE PRINTS TO THE DISKS.
- 7. SUBMIT THE AS-BUILT CAD DISKS, TWO SETS OF WHITE PRINTS PRODUCED FROM THE AS-BUILT DISK SET, AND THE ORIGINAL MARKED-UP PRINTS OF THE RECORD DRAWINGS.

16. ELECTRICAL TESTING AND COMMISSIONING

- 1. ALL SYSTEMS, EQUIPMENT AND INSTALLATION SHALL BE INSPECTED, TESTED, ADJUSTED AND COMMISSIONED TO ENSURE COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS AND MODIFICATION TO THE EXISTING BUILDING, ADJUST ALL COMPONENTS TO SUIT (SEE KEY PLAN).
- 2. PROVIDE TESTING EQUIPMENT, INSTRUMENTS, MATERIAL AND LABOUR FOR ALL TESTING AND COMMISSIONING.
- 3. SUBMIT REPORTS OF ALL TESTING AND COMMISSIONING FOR REVIEW BY THE CONSULTANTS.

17. CUTTING AND PATCHING

- 1. ALL CUTTING, PATCHING AND CORE DRILLING REQUIRED FOR ELECTRICAL CONTRACTOR'S WORK SHALL BE BY THE ELECTRICAL CONTRACTOR TO THE COMPLETE SATISFACTION OF THE ARCHITECT AND CONSULTANT.
- 2. ELECTRICAL CONTRACTOR SHALL INCLUDE IN TENDER THE COST FOR X-RAY OF LOCATION FOR ALL FLOOR CORE DRILLING AND SAW CUTTING TO ESTABLISH EXACT LOCATION.

18. SCHEDULE OF WORK

- 1. ADHERE TO SCHEDULE OF WORK AS PROVIDED BY THE CONSULTANT AND THE CONTRACTOR.

19. MATERIALS

- 1. ALL MATERIALS USED SHALL BE NEW AND OF THE TYPE SPECIFIED AND FREE FROM DEFECTS AND THEY SHALL BE C.S.A. APPROVED.
- 2. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER, PRESENT A NEAT MECHANICAL APPEARANCE AND CONFORM WITH ONTARIO ELECTRICAL SAFETY CODE AND LOCAL AUTHORITIES REQUIREMENTS.
- 3. ALL L.V. WIRES AND CABLES SHALL HAVE 600 VOLTS INSULATION AND BE SUITABLE FOR THE LOCATION USED AND SHALL HAVE A CURRENT CARRYING CAPACITY IN ACCORDANCE WITH PROVINCIAL INSPECTION DEPARTMENT STANDARDS.
- 4. BVSX CAN BE USED ONLY IN PARTITIONS AND WHERE CONCEALED, TERMINATE CABLES WITH A JUNCTION BOX IN ACCORDANCE WITH THE ELECTRICAL SAFETY CODE, HOME RUN FROM JUNCTION BOX TO LIGHTING PANEL SHALL BE IN CONDUIT.
- 5. NO WIRE SMALLER THAN #12 SHALL BE USED EXCEPT FOR INTERNAL WIRING OF LIGHTING FIXTURES.
- 6. ALL WIRING TO BE COLOR CODED AND SHALL BE IDENTIFIED WITH BRADY SELF-STICKING PERMACODE WIRE MARKERS. NO JOINTS WILL BE PERMITTED ON FEEDERS (COPPER).
- 7. ALL JOINTS TO BE SECURELY FASTENED BY MEANS OF MARR CONNECTORS.
- 8. RACEWAYS SHALL BE RIGID METAL CONDUIT, EMT OR FLEXIBLE CONDUIT AS SHOWN ON THE DRAWINGS. PROVIDE GROUND WIRE AS REQUIRED.
- 9. EMT COUPLINGS AND CONNECTORS TO BE TAB STEEL SET SCREW TYPE.
- 10. CONDUITS ARE NOT ALLOWED TO BE INSTALLED IN OR ON UNDERSIDE OF CABLE TRAY OR TO BE ATTACHED TO THE METAL DECK.
- 11. USE OR RUNNING THREADS IS NOT PERMITTED.
- 12. ALL CONDUITS MUST BE SECURELY FASTENED WITH APPROVED CLIPS AND SCREWS IN PARTITIONS AND CADDY CLIPS IN CEILING; NAILS OR TIRES WILL NOT BE ACCEPTED.
- 13. OPENINGS IN ALL ELECTRICAL METAL BOXES SHALL BE PUNCHED OR CUT. BURNING OF HOLES WILL NOT BE PERMITTED.
- 14. WIRING DEVICES SHALL BE SPECIFICATION GRADE, WITH WHITE FINISH COMPLETE WITH MULTIPLE GANG SUPER STAINLESS STEEL, TYPE 302 PLATES, AND SHALL MATCH EXISTING ONES, UNLESS OTHERWISE NOTED.
- 15. SIZES OF RACEWAYS AND CONDUIT SHALL BE ACCORDANCE WITH C.S.A., ONTARIO ELECTRICAL SAFETY AUTHORITY AND LOCAL AUTHORITIES STANDARDS.
- 16. CONDUIT SHALL BE OF SUCH A SIZE AND SHALL BE SO INSTALLED THAT THE REQUIRED CONDUCTORS MAY BE DRAWN IN WITHOUT STRAIN OR INJURY. C.S.A. APPROVED LUBRICANT MAY BE USED WHERE NECESSARY. SIZE OF CONDUIT SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND THE REQUIREMENTS OF THE ONTARIO ELECTRICAL SAFETY AUTHORITY AND LOCAL AUTHORITIES HAVING JURISDICTION AND THE LATEST EDITION OF THE ELECTRICAL SAFETY CODE.
- 17. THIS DIVISION SHALL DISPOSE OFF SITE ALL EMPTY CARTONS, CRATES, ETC. IN WHICH LIGHTING FIXTURES, LAMPS, AND OTHER MATERIALS ARE DELIVERED.
- 18. THE SUPPORTS REQUIRED FOR MOUNTING AND INSTALLATION OF RECESSED LIGHTING FIXTURES SHALL BE SUPPLIED BY THIS DIVISION. THE SUPPORTS SHALL BE ATTACHED SECURELY TO THE BUILDING STRUCTURE. EXISTING CEILING SYSTEM, DUCTWORK, AND DUCTWORK SUPPORT SHALL NOT BE USED AS A SUPPORTING MEANS.
- 19. TEST ALL PARTS OF THE RE-USED OR RELOCATED EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDINGS.
- 20. PROVIDE SLEEVES OF GALVANIZED STEEL PIPE WITH MACHINE CUT ENDS OF AMPLE SIZE TO ACCOMMODATE CONDUITS PASSING THROUGH WALLS, PARTITIONS, CEILINGS, FLOORS, ETC.
- 21. THE SPACE BETWEEN SLEEVE AND CONDUIT AND THE SPARE SLEEVES SHALL BE FILLED WITH DOW CORNING SILICONE RTV FOAM FOR FIRE STOP. CAULK AROUND THE TOP AND BOTTOM WITH APPROVED PERMANENTLY RESILIENT, NON-FLAMMABLE AND WEATHERPROOF SILICONE BASE COMPOUND.

20. WIRES AND CABLES

- 1. ALL L.V. WIRES AND CABLES UP TO 4/0 SHALL HAVE COPPER CONDUCTORS WITH TWO NYLON BODY INSULATION AND BE SUITABLE FOR THE LOCATION USED AND SHALL HAVE A CURRENT CARRYING CAPACITY IN ACCORDANCE WITH PROVINCIAL INSPECTION DEPARTMENT STANDARDS.
- 2. NO WIRE SMALLER THAN #12 AWG SHALL BE USED ON LIGHTING & POWER CIRCUITS EXCEPT FOR INTERNAL WIRING OF LIGHTING FIXTURES.
- 3. CONTROL WIRE SHALL BE NO SMALLER THAN #18 AWG.
- 4. ALL WIRING TO BE COLOUR CODED AND SHALL BE IDENTIFIED WITH BRADY SELF- STICKING PERMACODE WIRE MARKERS.
- 5. ALL JOINTS TO BE SECURELY FASTENED BY MEANS OF MARR CONNECTORS.

21. CONDUIT

- 1. RACEWAYS SHALL BE RIGID METAL CONDUIT, EMT OR FLEXIBLE CONDUIT AS SHOWN ON THE DRAWINGS. ALL CONDUIT WORK IN OR UNDER FLOOR SLAB SHALL BE RIGID PVC AND EMT WHERE RUN OVERHEAD AND ON/IN WALLS.
- 2. COUPLINGS AND CONNECTORS TO BE T & B OR STEEL RANTIGHT. FOR OUTSIDE INSTALLATION AND SET SCREW TYPE FOR INSIDE INSTALLATION.
- 3. ALL CONDUITS SHALL BE EMT AND SHALL BE RUN OVERHEAD.
- 4. USE OF RUNNING THREADS IS NOT PERMITTED.
- 5. ALL CONDUITS MUST BE SECURELY FASTENED WITH APPROVED CLIPS AND SCREWS IN PARTITIONS AND CADDY CLIPS IN CEILING; NAILS OR TIRES WILL NOT BE ACCEPTED.
- 6. ALL CONDUITS, ETC. SHALL BE INSTALLED TO TAKE CARE OF EXPANSION AND APPROVED EXPANSION JOINTS SHALL BE INSTALLED WHERE REQUIRED WHETHER INDICATED OR NOT.
- 7. A SEPARATE GROUND WIRE SHALL BE INSTALLED IN ALL FLEXIBLE CONDUITS, EMT CONDUITS, UNDERGROUND CONDUITS, IN WALL OR BELOW SLAB, AND IN ALL NON-METALLIC CONDUITS OR DUCTS.
- 8. RIGID P.V.C. CONDUIT SHALL BE A RIGID NON-METALLIC CONDUIT OF UNPLASTICIZED POLYVINYL CHLORIDE.
- 9. RIGID METAL CONDUIT ENTERING BOXES IN IN WET LOCATIONS SHALL BE SECURED WITH STEEL BULLET HUB CONNECTORS, NYLON INSULATED WITH NEOPRENE 'O' RING.
- 10. CONDUITS EXPOSED TO THE WEATHER, IN WET LOCATIONS, SUBJECT TO MECHANICAL INJURY OR IN ANY HAZARDOUS LOCATIONS, SHALL BE RIGID METAL CONDUIT (RIS TYPE).

22. OUTLET BOXES

- 1. OUTLET BOXES INSTALLED INSIDE THE BUILDING SHALL BE ELECTRO-GALVANIZED AND MADE OF CODE GAUGE STEEL, WHEN SURFACE MOUNTED THEY SHALL BE 'FS' OR 'FD' FERRALLOY CONDULETS (EXCEPT FOR STARTERS).
- 2. THE NEW BOXES INSTALLED OUTSIDE BUILDING SHALL BE WEATHER PROOF TYPE, WITH NEOPRENE GASKET AND CAST COVER.
- 3. OUTLET BOXES SHALL BE SECURELY FASTENED TO THE SURFACE ON WHICH THEY ARE MOUNTED. IF THE BOXES ARE NOT MOUNTED ON A SURFACE THEN ADEQUATE AND INDEPENDENT SUPPORTS MUST BE PROVIDED.
- 4. OUTLET BOXES SHALL BE PROVIDED FOR EACH RECESSED OR SURFACE MOUNTED LIGHTING FIXTURE.
- 5. MULTI-GANG OUTLET BOXES WITH SINGLE COVER PLATE SHALL BE USED WHERE SWITCHES ARE GROUPED.
- 6. ALL UNUSED OPENED KNOCKOUTS/OUTLET BOXES SHALL BE CLOSED WITH STEEL KNOCKOUT/PLATES PLUGS.

23. GROUNDING

- 1. ALL NON-CURRENT CARRYING METAL PARTS SHALL BE GROUNDED IN ACCORDANCE WITH E.S.A., C.S.A. AND PROVINCIAL INSPECTION DEPARTMENT STANDARDS.
- 2. OPENING IN ALL ELECTRICAL METAL BOXES SHALL BE PUNCHED OR CUT. BURNING OF HOLES WILL NOT BE PERMITTED.
- 3. PROVIDE GROUNDING FOR THE COMPLETE INSTALLATION AS REQUIRED BY THE ELECTRICAL SAFETY CODE AND IN ACCORDANCE WITH ONTARIO ELECTRICAL SAFETY AUTHORITY.
- 4. PROVIDE SEPARATE GROUND WIRE IN EACH RACEWAY/DUCT AND/OR EMT CONDUIT.
- 5. PROVIDE COMPLETE PERMANENT AND CONTINUOUS, SYSTEM AND EQUIPMENT GROUNDING SYSTEMS INCLUDING, GROUND RODS, CONDUCTORS, CONNECTORS, ACCESSORIES, TO CONFORM TO REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- 6. A SEPARATE COPPER WIRE SHALL BE INSTALLED IN ALL FLEXIBLE CONDUITS, EMT CONDUITS, IN ALL NON METALLIC CONDUITS AND IN ALL CONDUITS IN CONCRETE SLABS.

24. DEMOLITION

- 1. DEMOLITION OF EXISTING WALLS AND CEILINGS, WILL BE CARRIED OUT BY THE GENERAL CONTRACTOR UNDER A DEMOLITION CONTRACT.
- 2. REMOVAL AND/OR RELOCATION OF EXISTING ELECTRICAL FIXTURES AND DEVICES WILL BE CARRIED OUT BY THIS CONTRACTOR.

25. FIRE ALARM

- 1. THE EXISTING FIRE ALARM SYSTEM (NOTIFIER) PANEL SHALL BE OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
- 2. EXISTING F.A. PANEL LOCATED ON GROUND FLOOR (SEE KEY PLAN) SHALL REMAIN, PROVIDE ALL ASSOCIATED COMPONENTS (I.E. DEVICES, MODULES, CONDUIT, WIRING ETC.) TO SUIT ADDITION/RELOCATION OF DEVICES AS SHOWN ON DRAWINGS.
- 3. PROVIDE EXTENSION TO THE EXISTING FIRE ALARM SYSTEM AS SHOWN ON THE DRAWINGS COMPLETE WITH ALL COMPONENT, EQUIPMENT WIRING ETC. FOR A COMPLETE & OPERATING SYSTEM.
- 4. PROVIDE NEW F.A. DEVICES AS SHOWN ON THE DRAWINGS AND CONNECT TO THE EXISTING FIRE ALARM SYSTEM/F.A. SYSTEM DEVICE. PROVIDE ALL ASSOCIATED COMPONENTS TO SUIT.
- 5. NEW F.A. DEVICES SHALL MATCH EXISTING.
- 6. ALL WIRING SHALL HAVE COPPER CONDUCTORS.
- 7. RELOCATE/REMOVE EXISTING F.A. DEVICES AS SHOWN ON THE DRAWING. PROVIDE ALL REQUIRED COMPONENTS TO SUIT.

- 8. EXISTING FIRE ALARM GRAPHIC SHALL BE REPLACED WITH NEW TO SUIT ARCHITECTURAL MODIFICATION TO THE EXISTING BUILDING (SEE KEY PLAN).

- 9. EXISTING FIRE ALARM PANEL AND EXISTING F.A. MANUFACTURER SHALL BE MODIFIED TO SUIT ARCHITECTURAL MODIFICATION TO THE EXISTING BUILDING. ADJUST ALL COMPONENTS TO SUIT (SEE KEY PLAN).

- 10. ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND MUST COMPLY WITH ULG STANDARD CAN/ULC-5524-1-14.

- 11. THE DRW READINGS SHALL BE PROVIDED BY THE FIRE ALARM SYSTEM PROVIDER FOR ROOM HAVING AUDIBLE DEVICES IN THE BUILDING. THE TESTING REPORT SHALL BE PREPARED AND SUBMITTED FOR REVIEW BY THE CONSULTANT.

- 12. ELECTRICAL CONTRACTOR SHALL INCLUDE IN TENDER PRICE TO EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT COMPANY TO TEST, INSPECT AND VERIFY THE OPERATION OF THE FIRE ALARM SYSTEM IN ACCORDANCE WITH CAN/ULC-5501-11 FOR "INTERGRADED SYSTEMS TESTING OF FIRE PROTECTION AND LIFE SYSTEMS" AND THE REQUIREMENTS OF THE EQUIPMENT. PROVIDE DRIP HOOD DOOR AND GASKET TO SUIT.

- 13. A CERTIFICATE SHALL BE PROVIDED BY THE SYSTEM MANUFACTURER/INSTALLER UPON COMPLETION OF THE INSPECTION, VERIFYING THAT THE SYSTEM IS INSTALLED, TESTED, SUPERVISED AND OPERATES ACCORDING TO ALL CODES AND AUTHORITIES HAVING JURISDICTION. SUBMIT THE CERTIFICATION/VERIFICATION REPORT TO THE ARCHITECT/CONSULTANT FOR REVIEW.

26. SPRINKLER PROOF EQUIPMENT

- 1. ELECTRICAL EQUIPMENT INSTALLED SHALL BE SPRINKLERPROOF WHERE SPRINKLERS INSTALLED, IT SHALL BE CONSTRUCTED SO THAT WATER FROM THE SPRINKLER HEADS SHALL NOT IMPAIR THE EFFECTIVENESS OF THE EQUIPMENT. PROVIDE DRIP HOOD DOOR AND GASKET TO SUIT)
- 2. A SEPARATE AND COMPLETE ROOF SHALL BE PROVIDED ON FREE STANDING OR SURFACE MOUNTED EQUIPMENT. AN OVERHANG AT THE FRONT, REAR AND SIDES SHALL PREVENT THE ENTRANCE OF WATER EITHER AT THE TOP OR THROUGH PROJECTING FACE PLATES, METERS, ETC.
- 3. WHERE OPENINGS ARE REQUIRED IN THE ROOFS OR SIDES OF INCOMING AND OUTGOING CONDUITS AND CABLES, REMOVABLE GASKETED PLATES SHALL BE PROVIDED AND THE CONDUITS AND CABLES SHALL BE INSTALLED USING WATERPROOF FITTINGS. THE PLATES ARE TO BE GROUNDED BY A SEPARATE COTTER STRAP TO THE EQUIPMENT.

27. CONTACTORS

- 1. CONTACTORS (SHALL MATCH EXISTING) CONTROLLING BRANCH CIRCUITS SHALL BE TUNSTEN RATED, ELECTRICALLY OPERATED, ELECTRICALLY HELD WITH COIL CLEARING CONTACTS OF THE SIZE AND RATING SPECIFIED, COMPLETE WITH CONTROL TRANSFORMER, CONTROL CIRCUIT FUSES, PILOT LIGHT WARNING LABEL AND ON/OFF/AUTO SELECTOR SWITCH.
- 2. CONTACTORS SHALL BE IN SPRINKLER PROOF ENCLOSURE UNLESS OTHERWISE NOTED.
- 3. THE CONTACTORS AMPERE RATING SHOWN ON THE DRAWINGS IS THE MINIMUM CONTINUOUS ENCLOSED DERATED RATING OF THE CONTACTORS.
- 4. CONTACTORS CONTROLLING BRANCH CIRCUITS SHALL BE MOUNTED NEXT TO OR ABOVE THE LIGHTING PANEL FROM WHICH THEY ARE FED, UNLESS OTHERWISE NOTED.
- 5. CONTACTORS SHALL BE OF ASCO, ALLEN-BRADLEY, CUTLER-HAMMER, SIEMENS OR SQUARE 'D' MANUFACTURE.

28. EXISTING LIGHTING & POWER PANELS

- 1. EXISTING LIGHTING AND POWER PANELS FOR 347/600 & 120/240V SYSTEM ARE LOCATED AS SHOWN ON DRAWINGS.
- 2. PROVIDE UPDATED TYPE PANEL DIRECTORIES AND NEW BREAKERS FOR EXISTING PANELS PART OF THIS CONTRACT.

29. WIRING DEVICES

- 1. ALL WIRING DEVICES INSTALLED UNDER THIS CONTRACT SHALL BE SPECIFICATION GRADE AND MANUFACTURED BY P & S, HUBBELL OR EQUAL.
- 2. LIGHT SWITCHES SHALL BE TOGGLE ROCKER TYPE OR A.C. RATED 20 AMPERES, 347 VOLTS OR 120 VOLTS EQUIPPED WITH SILENT OPERATING MECHANISM. TOGGLE TYPE, A MOLDED COMPRESSION BASE SWITCHES SHALL BE SINGLE POLE, THREE OR FOUR WAY AS INDICATED, WHERE LOCAL LIGHT SWITCHES ARE INDICATED THESE SHALL BE SIMILAR TO THE ABOVE SPECIFICATION WITH KEY OPERATION (SIMILAR TO LEVITON 221-2KL). PROVIDE OWNER ONE (1) KEY FOR EACH SWITCH INSTALLED.
- 3. ALL RECEPTACLES INSTALLED IN THIS BUILDING SHALL BE GROUNDING TYPE WITH GROUNDING PIN SLOT CONNECTED TO DEVICE GROUND SCREW FOR GROUND WIRE CONNECTION.
- 4. OUTLET BOXES SHALL BE TYPE 302 PLATES (NEMA 5-15R), HUBBELL OR EQUAL.
- 5. ALL COVER PLATES SHALL BE STAINLESS STEEL TYPE OR SHALL MATCH EXISTING. COORDINATE WITH THE ARCHITECT.
- 6. ALL WIRING DEVICES SHALL MATCH EXISTING TYPE. COORDINATE WITH ARCHITECT.
- 7. LIGHT SWITCHES AND RECEPTACLES ON NORMAL POWER SHALL BE WHITE UNLESS NOTED OTHERWISE. (COORDINATE WITH THE OWNER)

30. EMERGENCY LIGHTING

- 1. SUPPLY AND INSTALL EMERGENCY LIGHTING EQUIPMENT COMPLETE WITH ASSOCIATED CONDUITS, WIRING, DEVICES, ETC. AS SHOWN ON DRAWINGS AND SPECIFIED BELOW.
- 2. EMERGENCY BATTERY LIGHTING UNITS TYPE 'X' SHALL BE AS MANUFACTURED BY LUMACELL AND SHALL BE CSA C22.1/141 PERFORMANCE APPROVED AND SHALL BE CONNECTED TO A 120 VOLT A.C. 60 CYCLE SINGLE PHASE WIRELESS SOURCE AND SHALL PROVIDE AN AUTOMATICALLY AND INSTANTANEOUSLY EMERGENCY LIGHTING UPON FAILURE OR INTERRUPTION OF NORMAL ELECTRIC POWER. BATTERIES SHALL BE SEALED LEAD, 24 VOLT, 144 WATT, CHARGER SHALL BE COMPLETELY AUTOMATIC SOLID STATE TYPE, WITH REVERSE TEMPERATURE COMPENSATION. THE CONTROL PANEL SHALL CONTAIN THE FOLLOWING:
 - A.C. PILOT LIGHT.
 - TEST BUTTON.
 - ON-OFF SWITCH.
 - PROVISION FOR CONDUIT CONNECTION.
 - BURN-OUT PROTECTION.
- 3. THE BATTERY UNITS SHALL BE LUMACELL "R624S-144", BEGHELLI, EMERGI-LITE.
- 4. THE COMPLETE SYSTEM SHALL HAVE A ONE YEAR UNCONDITIONAL GUARANTEE AND A 5-YEAR PRO-RATED GUARANTEE ON WORKMANSHIP AND PARTS AND 10 YEARS PRO-RATED ON BATTERIES.
- 5. TYPE 'X' SERIES SHALL BE "UNIVERSAL MOUNT" EDIT SIGNS WITH RUNNING MAN PICTOGRAM C/W LEFT/RIGHT INDICATOR(S) AS SHOWN ON DRAWINGS, SUITABLE FOR WALL, CEILING AND/OR END TO WALL MOUNTING, FOR 120 VOLT OPERATION AND PROVISIONS FOR 24 VOLT D.C. POWER SUPPLY. OVERALL DIMENSIONS OF THE FIXTURE SHALL BE APPROXIMATELY 13" X 7.75" X 2" DEEP MADE OF EXTRUDED ALUMINUM, EMERGI-LITE EX-SERIES AND BEGHELLI QUADRA-PM SERIES SHALL BE CONSIDERED EQUAL. NEW UNIT CONNECTED TO EXISTING CIRCUIT SHALL MATCH EXISTING REQUIREMENTS.
- 6. EMERGENCY REMOTE HEADS:
 - TYPE 'LA' SHALL BE BEGHELLI TEMPESTA #1A-BM-LED-R/7B LED REMOTE EMERGENCY LIGHTING FIXTURE COMPLETE WITH 17 WATT, 24 VOLT LED LAMPS. NEW UNIT CONNECTED TO EXISTING CIRCUIT SHALL MATCH EXISTING REQUIREMENTS.
 - TYPE 'LB' SHALL BE BEGHELLI IIR-LED REMOTE EMERGENCY LIGHTING FIXTURE COMPLETE WITH 1-1/2 WATT, 24 VOLT LED LAMPS. NEW UNIT CONNECTED TO EXISTING CIRCUIT SHALL MATCH EXISTING REQUIREMENTS.
- 7. APPROVED MANUFACTURERS FOR TYPE 'X' AND 'L' SERIES FIXTURES ARE BEGHELLI, EMERGI-LITE, AMULTE.
- 8. INSTALL UNITS WHERE SHOWN ON THE DRAWING AND PROVIDE ALL NECESSARY MOUNTING PLATFORMS AND MOUNTING HARDWARE.
- 9. ELECTRICAL CONTRACTOR SHALL PROVIDE CERTIFICATE FOR EMERGENCY LIGHTING AND REPORT OF EMERGENCY LIGHTING LEVELS IN AREA OF RENOVATIONS, MEASURED ON SITE.

31. P.A. SYSTEMS

- 1. THE EXISTING P.A. SYSTEMS, TELECOR-100 900 SERIES SHALL REMAIN AND SHALL BE OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
- 2. EXISTING P.A. SYSTEM LOCATED IN EXISTING GENERAL OFFICE ON GROUND FLOOR (SEE KEY PLAN) SHALL REMAIN.
- 3. THE NEW P.A. SYSTEM DEVICES, COMPLETE WITH WIRING AND EQUIPMENT, SHALL BE PROVIDED BY OTHERS AS PART OF CASH ALLOWANCE. PART OF THIS CONTRACT WILL BE TO PROVIDE OUTLET BOXES AND EMPTY CONDUITS AS SHOWN ON DRAWINGS.

32. TELEPHONE SYSTEM

- 1. THE EXISTING TELEPHONE SYSTEM SHALL REMAIN AND SHALL BE OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.

- 2. EXISTING TELEPHONE SYSTEMS LOCATED IN EXISTING ELECTRICAL ROOM ON GROUND FLOOR (SEE KEY PLAN) SHALL REMAIN.

- 3. THE NEW TELEPHONE SYSTEM DEVICES, COMPLETE WITH WIRING AND EQUIPMENT, SHALL BE PROVIDED BY OTHERS AS PART OF CASH ALLOWANCE. PART OF THIS CONTRACT WILL BE TO PROVIDE OUTLET BOXES AND EMPTY CONDUITS AS SHOWN ON DRAWINGS. PROVIDE BLANK COVER PLATE.

33. COMPUTER SYSTEM

- 1. THE EXISTING COMPUTER SYSTEM SHALL REMAIN AND SHALL BE OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
- 2. THE NEW COMPUTER SYSTEM DEVICES, COMPLETE WITH WIRING AND EQUIPMENT, SHALL BE PROVIDED BY OTHERS AS PART OF CASH ALLOWANCE. PART OF THIS CONTRACT WILL BE TO PROVIDE OUTLET BOXES AND EMPTY CONDUITS AS SHOWN ON DRAWINGS. PROVIDE BLANK COVER PLATE.

34. SECURITY SYSTEM

- 1. THE EXISTING SECURITY SYSTEMS MAXVIS PC4020 LOCATED IN EXISTING MAIN CUSTODIAN ROOM ON GROUND FLOOR SHALL REMAIN AND SHALL BE OPERATIONAL AT ALL TIMES. (SEE KEY PLAN)
- 2. RELOCATE EXISTING SECURITY SYSTEM DEVICES AS SHOWN ON DRAWINGS (EXTEND ASSOCIATED CONDUIT, WIRING AND ADJUST ALL COMPONENTS TO SUIT).
- 3. PROVIDE NEW SECURITY SYSTEM DEVICES (SHALL MATCH EXISTING) AS SHOWN ON DRAWING COMPLETE WITH ASSOCIATED CONDUIT, WIRING AND CONNECTION TO SECURITY SYSTEM PANEL. PROVIDE ALL ASSOCIATED COMPONENTS TO SUIT.
- 4. INSTALLATION OF NEW SECURITY SYSTEM EQUIPMENT AND WIRING SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND REQUIREMENT OF THE SCHOOL BOARD.
- 5. ALL CONDUITS SHALL BE TERMINATED IN EXISTING CORRIDOR ACCESSIBLE CEILING SPACE.
- 6. THE EXISTING SECURITY SYSTEM SHALL REMAIN AND SHALL BE OPERATIONAL AT ALL TIMES.
- 7. IF REQUIRED, PROVIDE SECURITY SYSTEM EXPANDER TO SUIT ADDITIONAL ZONE.
- 8. AFTER COMPLETION OF THE SECURITY SYSTEM PROVIDE VERIFICATION REPORT BY SECURITY SYSTEM MANUFACTURER/INSTALLER.

35. DISCONNECT SWITCHES

- 1. THE DISCONNECT SWITCHES SHALL HAVE THE OPERATING HANDLE INTERLOCKED WITH THE SWITCH COVER SO THAT IT CAN ONLY BE OPENED WHEN THE SWITCH IS IN THE "OFF" POSITION, AND THE HANDLE CANNOT BE PUT IN THE "ON" POSITION UNLESS THE COVER IS CLOSED (SHALL MATCH EXISTING).
- 2. THE FUSED SWITCHES SHALL HAVE STEEL REINFORCED CLIPS AND FUSES SHALL BE EASILY REMOVABLE WHEN THE SWITCH IS IN THE "OFF" POSITION.
- 3. SWITCHES SHALL HAVE AMPLE GUTTER SPACE FOR TOP OR BOTTOM WIRING AND SHALL HAVE FULLY VISIBLE BLADES WHEN IN THE "OFF" POSITION, QUICK-MAKE, QUICK-BREAK MECHANISM AND BE HORSE-POWER RATED.
- 4. SWITCHES USED OUTDOORS SHALL BE IN A WEATHERPROOF ENCLOSURE.
- 5. SWITCHES SHALL HAVE PROVISION FOR PADLOCKING IN THE "OFF" POSITION AND INTERLOCK DEFECT.
- 6. ALL MOTORS SHALL BE PROVIDED WITH A DISCONNECT SWITCH BY THIS DIVISION UNLESS OTHERWISE NOTED.
- 7. THE DISCONNECT SWITCHES SHALL BE AS MANUFACTURED BY F.P.E., CUTLER HAMMER, G. E., SIEMENS, OR SQUARE 'D'.
- 8. ALL DISCONNECT SWITCHES SHOWN IN DOTTED LINE ON THE DRAWINGS ARE SUPPLIED AND INSTALLED BY ANOTHER DIVISION OF THIS SPECIFICATION.

36. HAND DRYERS

- 1. THE HANDDRYERS SHALL BE ELECTRONIC TYPE, WORLD DRYER CAT-#K-974, SURFACE MOUNTED, VACUUM RESISTANT TYPE, FIXED NOZZLE AND SITE THE GRILLE WITH A CAPACITY OF 1200 WATTS AT 120 VOLT. COLOUR TO BE SELECTED BY THE ARCHITECT.
- 2. PROVIDE BACKBOXES FOR DRYERS AND CONNECT TO CIRCUITS AS SHOWN ON THE DRAWINGS (COORDINATE MOUNTING HEIGHTS WITH MANUFACTURER AND ARCHITECTURAL DRAWINGS)
- 3. INSTALL THE HAND DRYERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. (COORDINATE WITH ARCHITECT)

37. LIGHTING PANELS

- 1. LIGHTING/POWER PANELS SHALL BE SPRINKLERPROOF OF THE SIZE, CAPACITY AND TYPE AS SHOWN ON THE DRAWINGS (SHALL MATCH EXISTING).
- 2. LIGHTING/POWER PANELS SHALL BE OF THE DEAD FRONT TYPE ENCLOSED IN CODE GAUGE STEEL EQUIPPED WITH DOOR, LOCK AND DIRECTORY AND SHALL BE SUITABLE FOR SURFACE OR FLUSH MOUNTING AS REQUIRED AND SHALL BE SPRINKLER PROOF TYPE.
- 3. BUSSING IN EACH PANEL SHALL BE COPPER AND SHALL EXTEND THE FULL LENGTH OF THE PANEL.
- 4. BREAKERS SHALL BE AMBIENT COMPENSATED TYPE, CALIBRATED AT 40 DEGREES C. AND BE OF THE BOLT-ON TYPE. MULTI-POLE BREAKERS SHALL HAVE COMMON TRIP.
- 5. LIGHTING PANELS FOR USE ON 208 VOLT SYSTEM SHALL, UNLESS OTHERWISE NOTED BE OF THE "NOOD" TYPE WITH NB BREAKERS AND SHALL MATCH EXISTING.
- 6. PANELS, INCLUDING TUBS, SHALL HAVE TWO COATS OF PRIMER PAINT AND TWO FINISH COATS OF ASA 61 GREY PAINT.
- 7. LOCATE LIGHTING/POWER PANELS WHERE INDICATED AND AMOUNT SECURELY AND PLUMB TRUE AND SQUARE TO ADJOINING SURFACES. PANELS ARE TO BE MOUNTED SO THAT THE TOP ARE 5'-6" (1675MM) ABOVE FINISHED FLOOR.
- 8. PRIOR TO ENERGIZING OR COMMISSIONING THE PANELS, THEY SHALL BE FULLY INSPECTED, TESTED, CHECKED AND ADJUSTED TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
 - GROUNDING
 - BUS TORQUE, SUPPORTS, CLEARANCE, GENERAL MECHANICAL CONDITIONS AND
 - INSULATION RESISTANCE, GROUNDING
 - CONTINUITY OR FEEDER CABLES.
 - BREAKER OPERATION AND BREAKER SETTINGS, CONTINUITY OF FEEDER CABLES.
 - PHASE RESISTANCE OF FEEDER CABLES, INSULATION RESISTANCE OF FEEDER CABLES.
 - PROPER PHASING OF INCOMING AND FEEDER CABLES.
 - EQUAL DIVISION OF LOAD BETWEEN PARALLEL CONDUCTORS.

38. LIGHTING CONTROL DEVICES