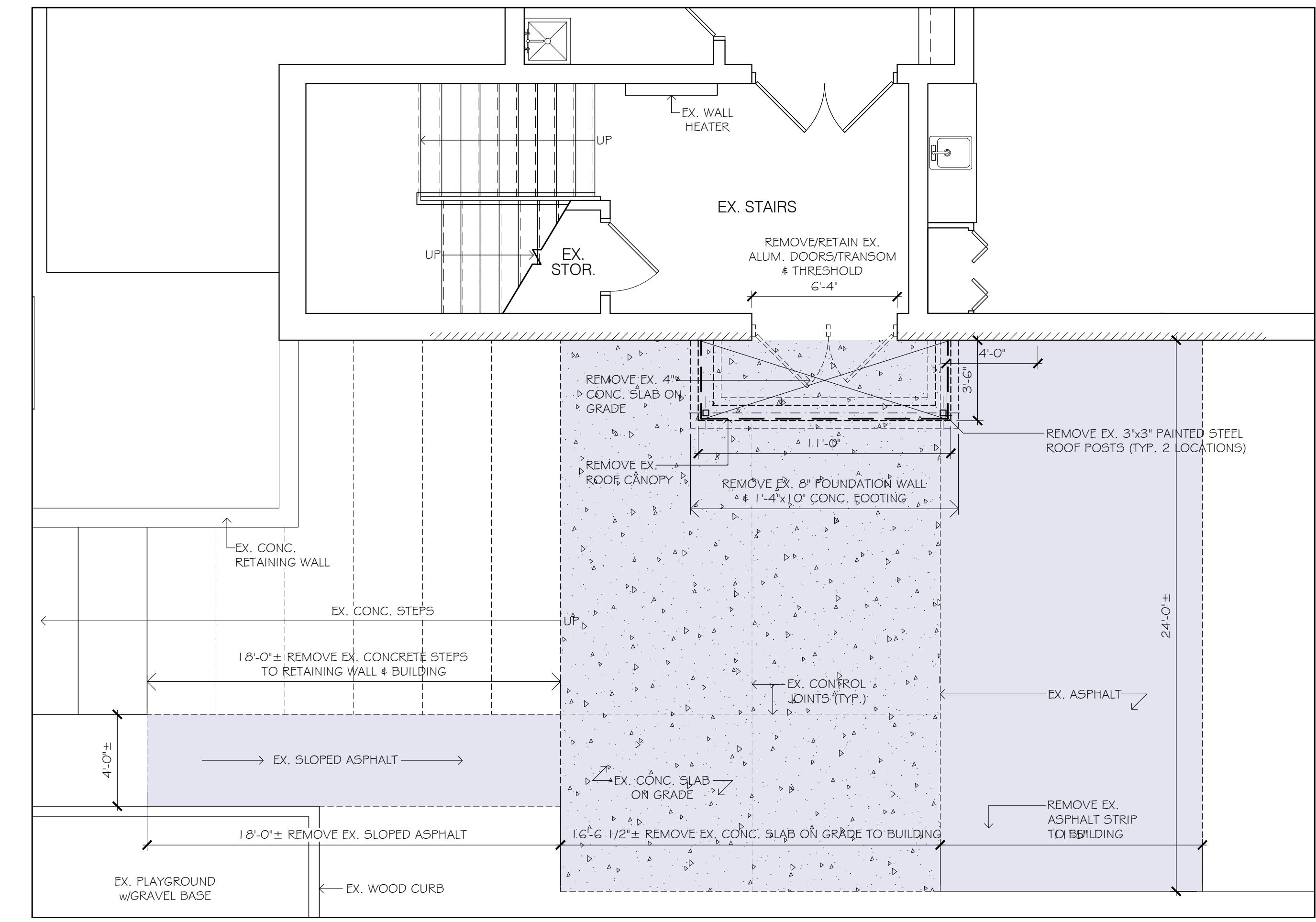




EX. PHOTO
SCALE: N.T.S.

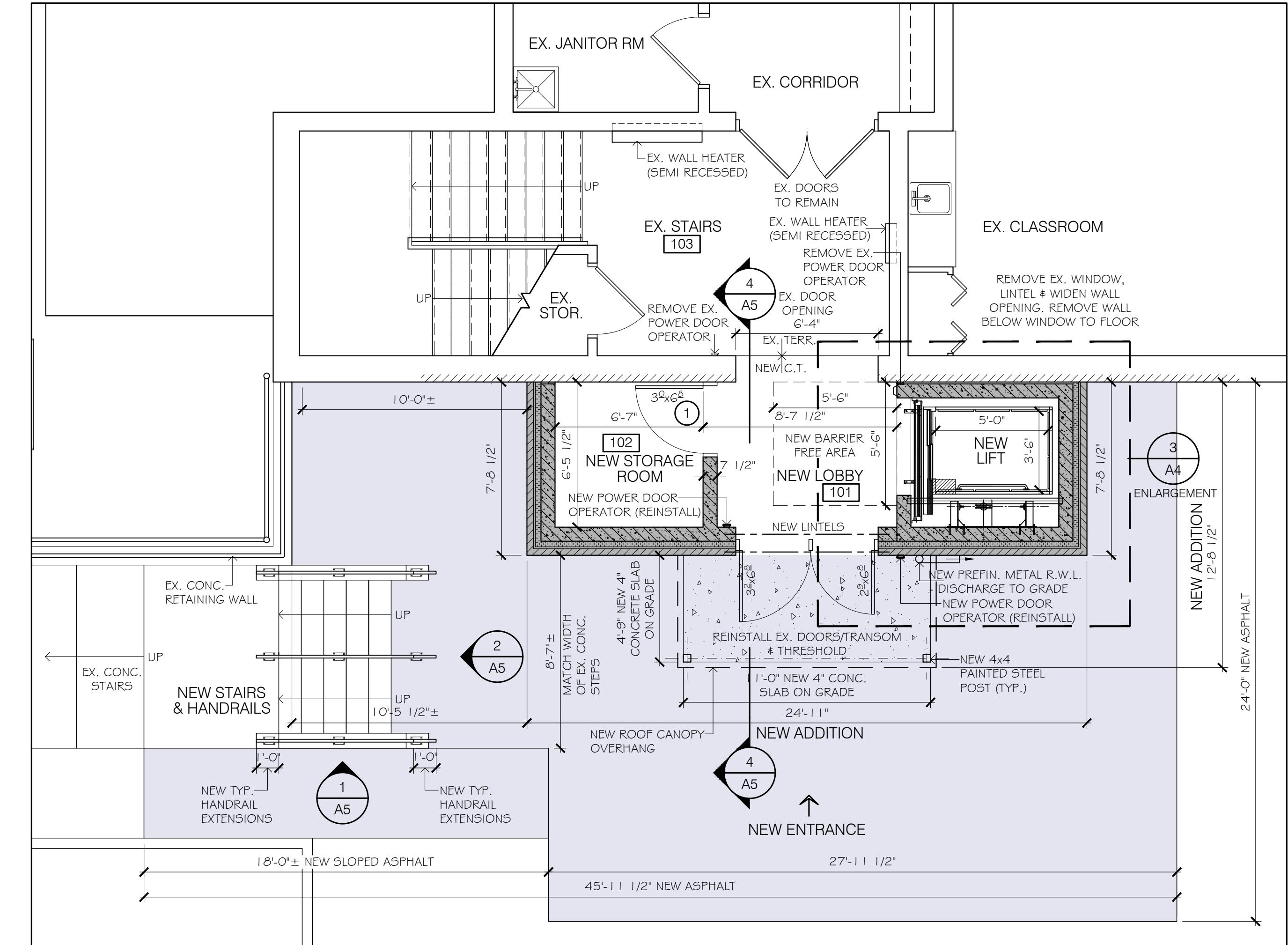
A2

ADDITION
S.



2 A2 EX. LOWER GROUND FLOOR PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"

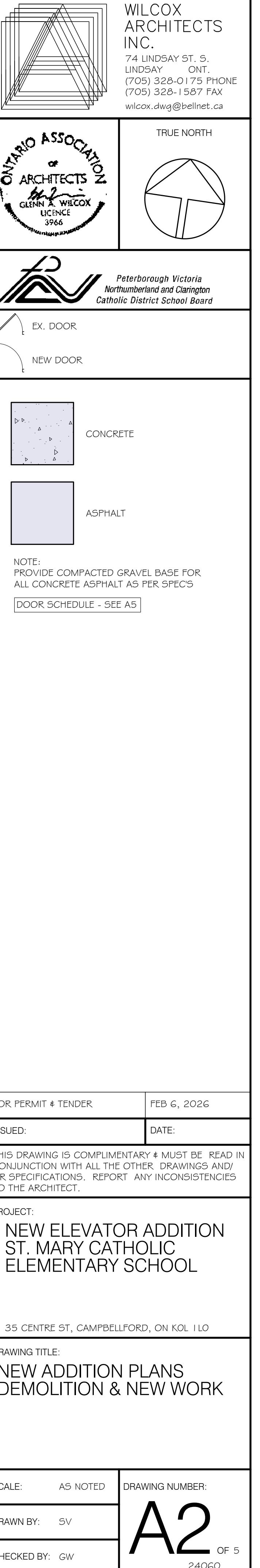
A2 SCALE: 1/4" = 1'-0"

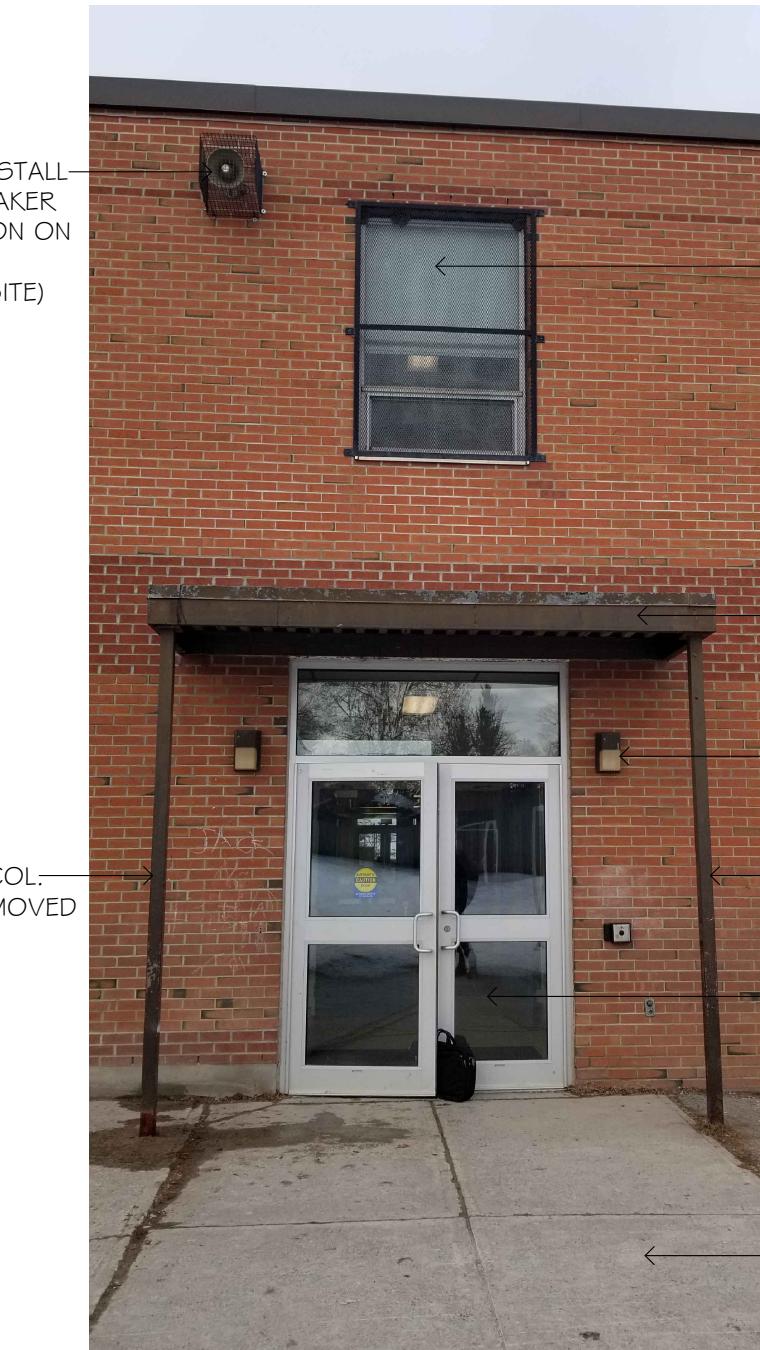
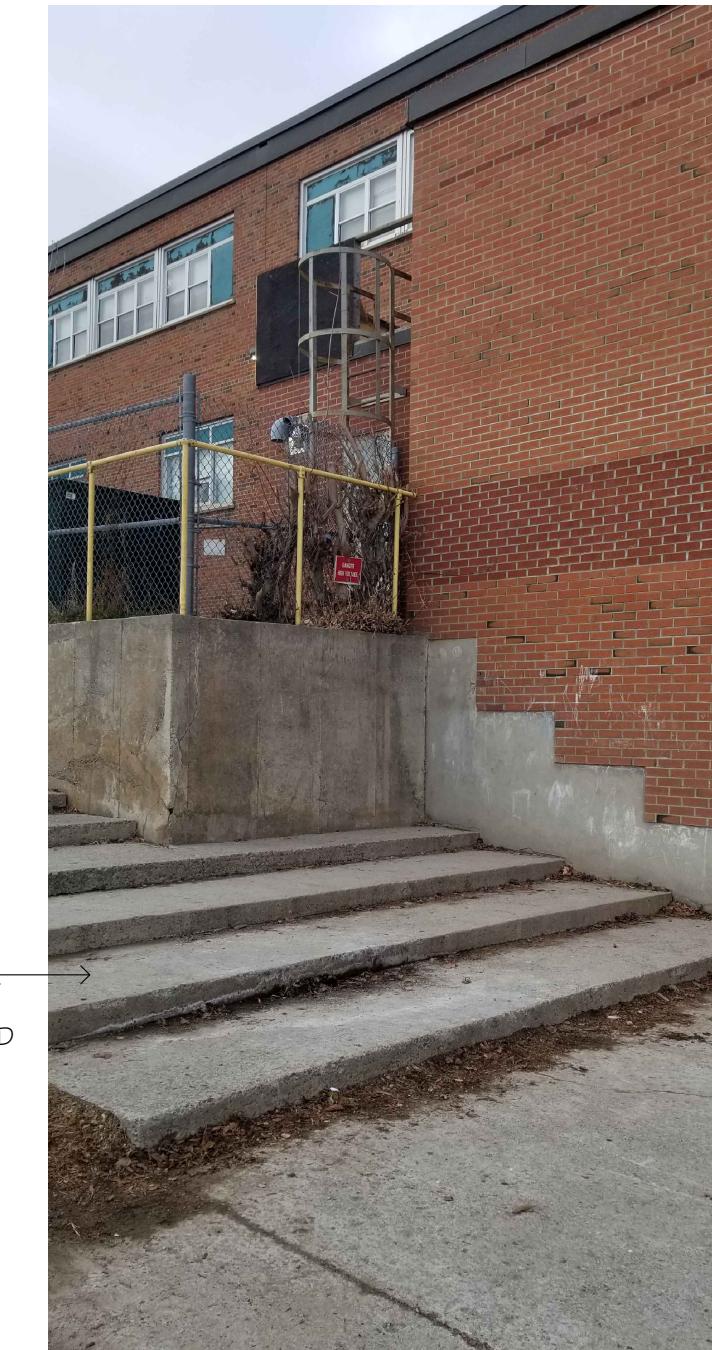
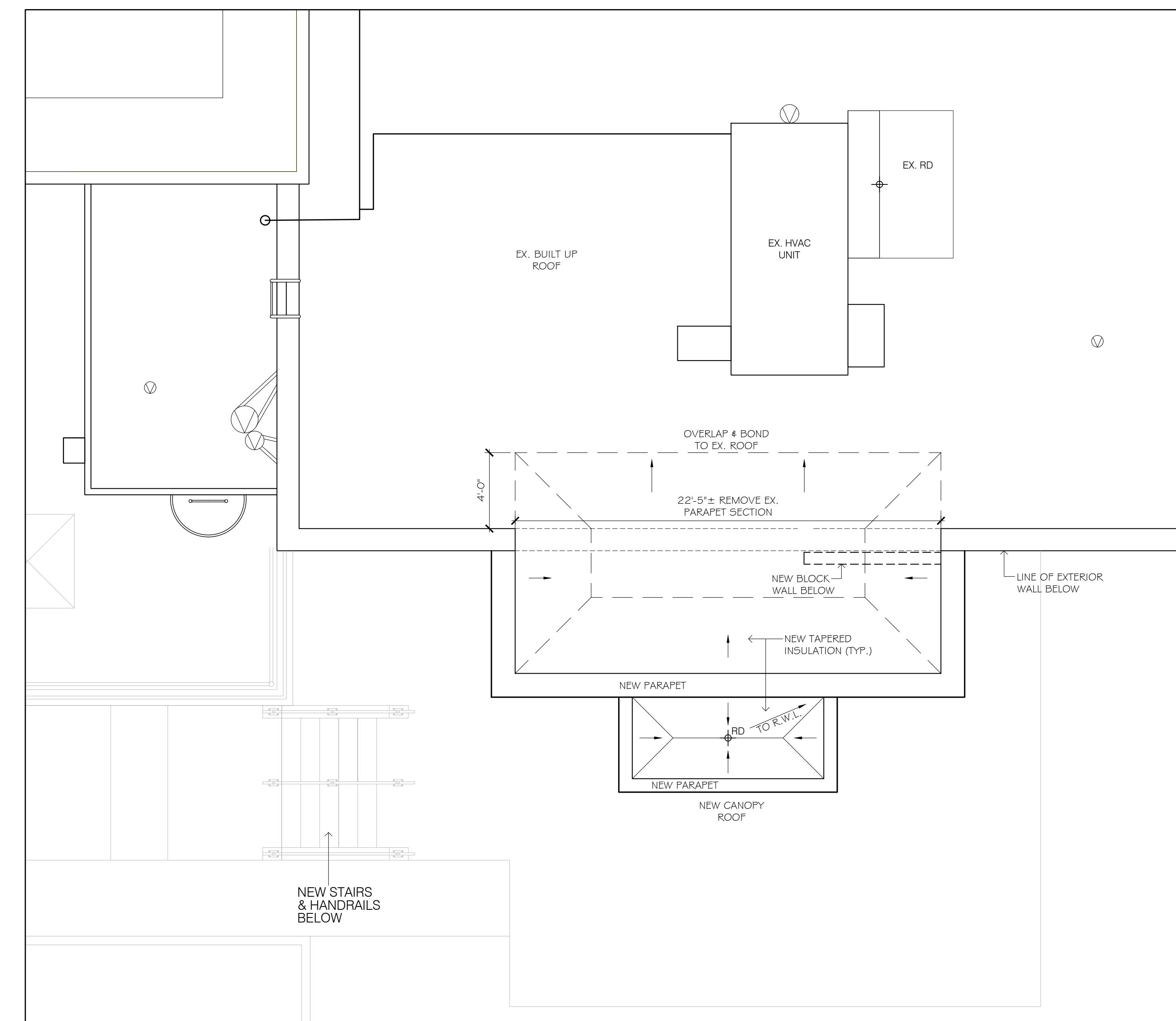
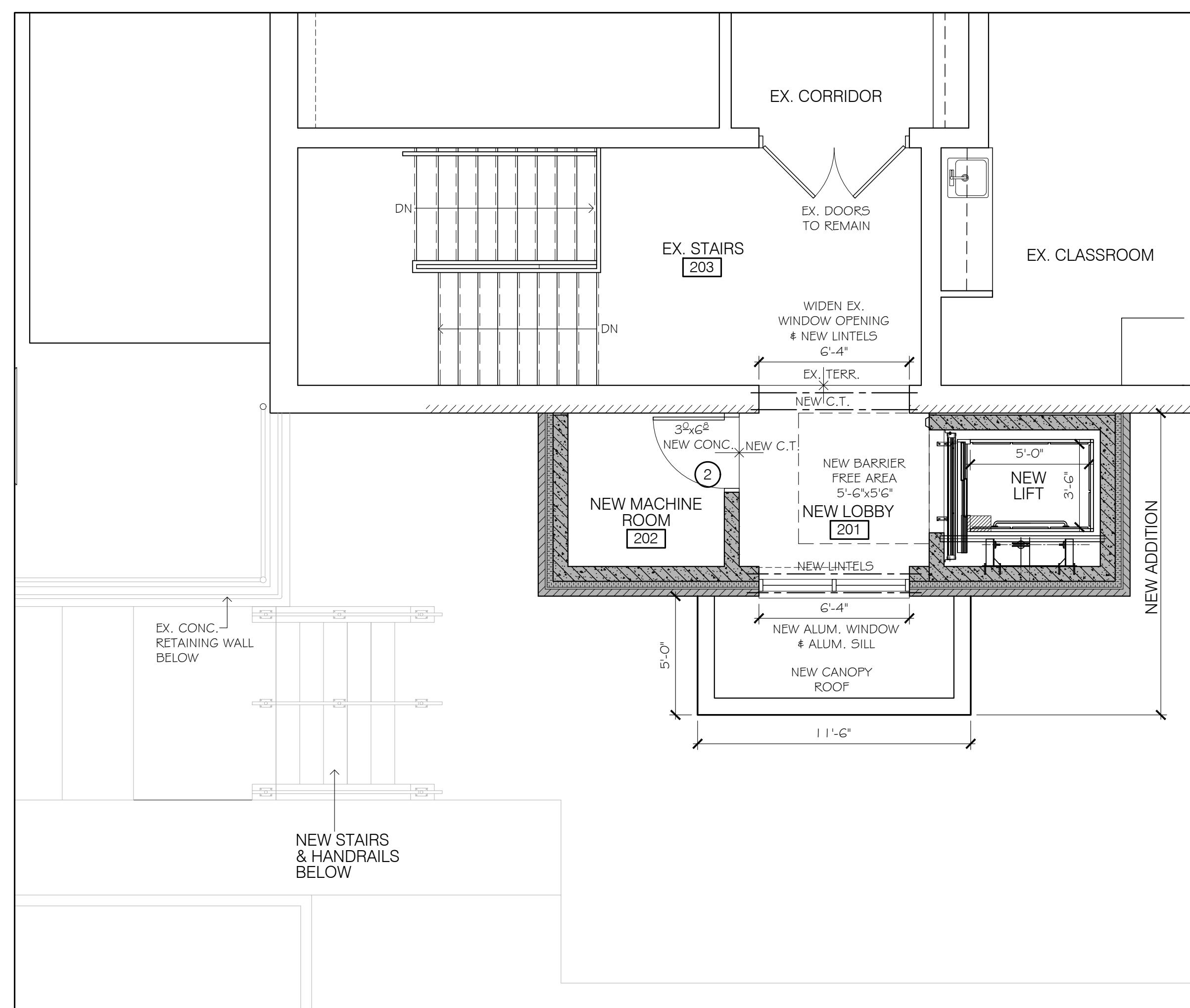
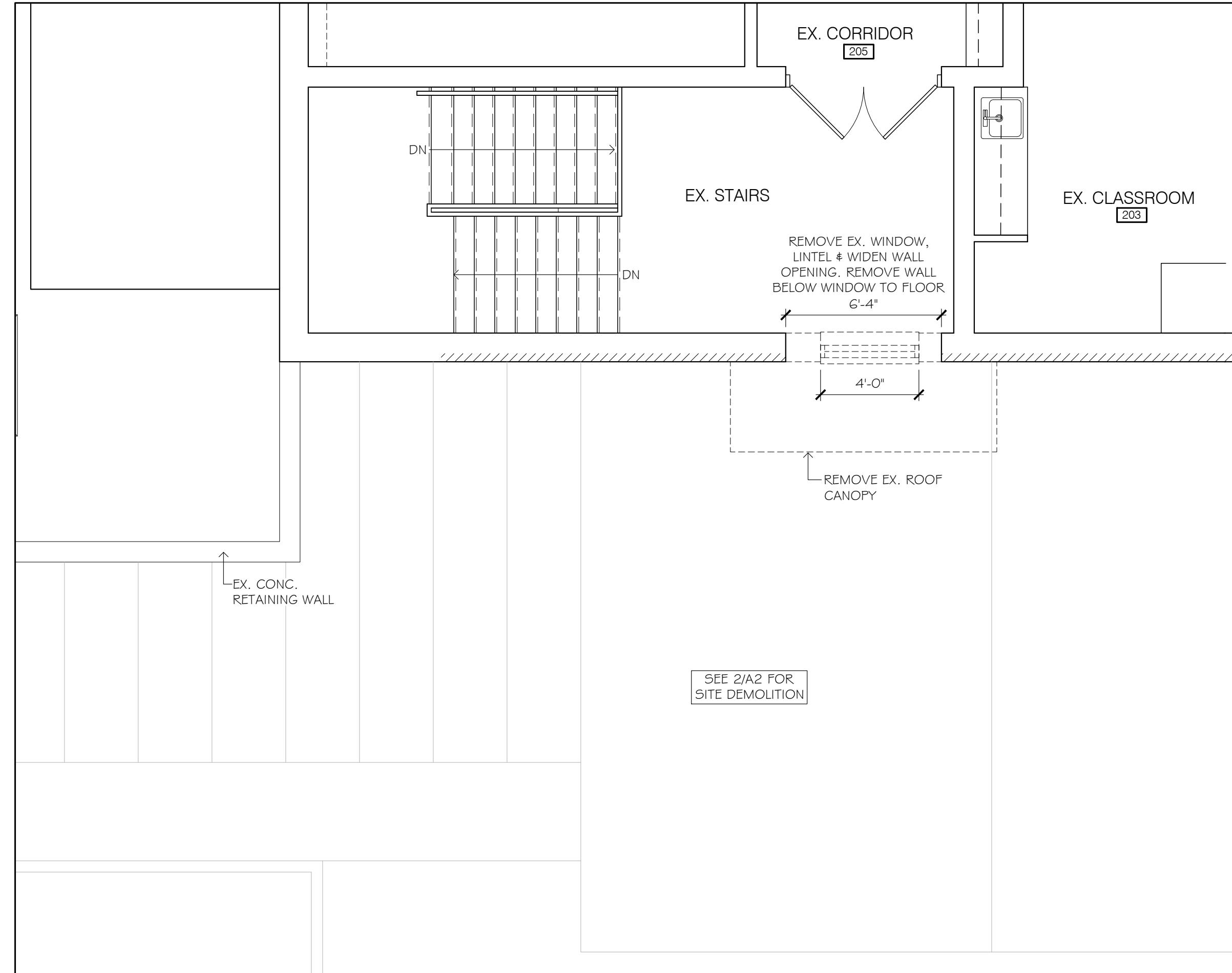


3 A2 NEW FOUNDATION PLAN ADDITION

A2 SCALE: 1/4" = 1'

A2 SCALE: 1/4" = 1'-0"





WILCOX ARCHITECTS INC.
74 LINDSAY ST. S.
LINDSAY, ONT.
(705) 328-0175 PHONE
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wilcox.dwg@bellnet.ca

ONTARIO ASSOCIATION OF ARCHITECTS
GLENN A. WILCOX LICENCE 3966

Peterborough Victoria Northumberland and Clarington Catholic District School Board

EX. DOOR
NEW DOOR

FOR PERMIT & TENDER FEB 6, 2026

ISSUED: DATE:

THIS DRAWING IS COMPLIMENTARY & MUST BE READ IN CONJUNCTION WITH ALL THE OTHER DRAWINGS AND OR SPECIFICATIONS. REPORT ANY INCONSISTENCIES TO THE ARCHITECT.

PROJECT: NEW ELEVATOR ADDITION ST. MARY CATHOLIC ELEMENTARY SCHOOL

35 CENTRE ST, CAMPBELLFORD, ON K0L 1L0

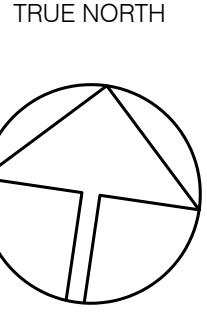
DRAWING TITLE: NEW ADDITION ROOF PLAN NEW ADDITION ELEVATIONS

SCALE: AS NOTED DRAWING NUMBER:

DRAWN BY: SV

CHECKED BY: GW

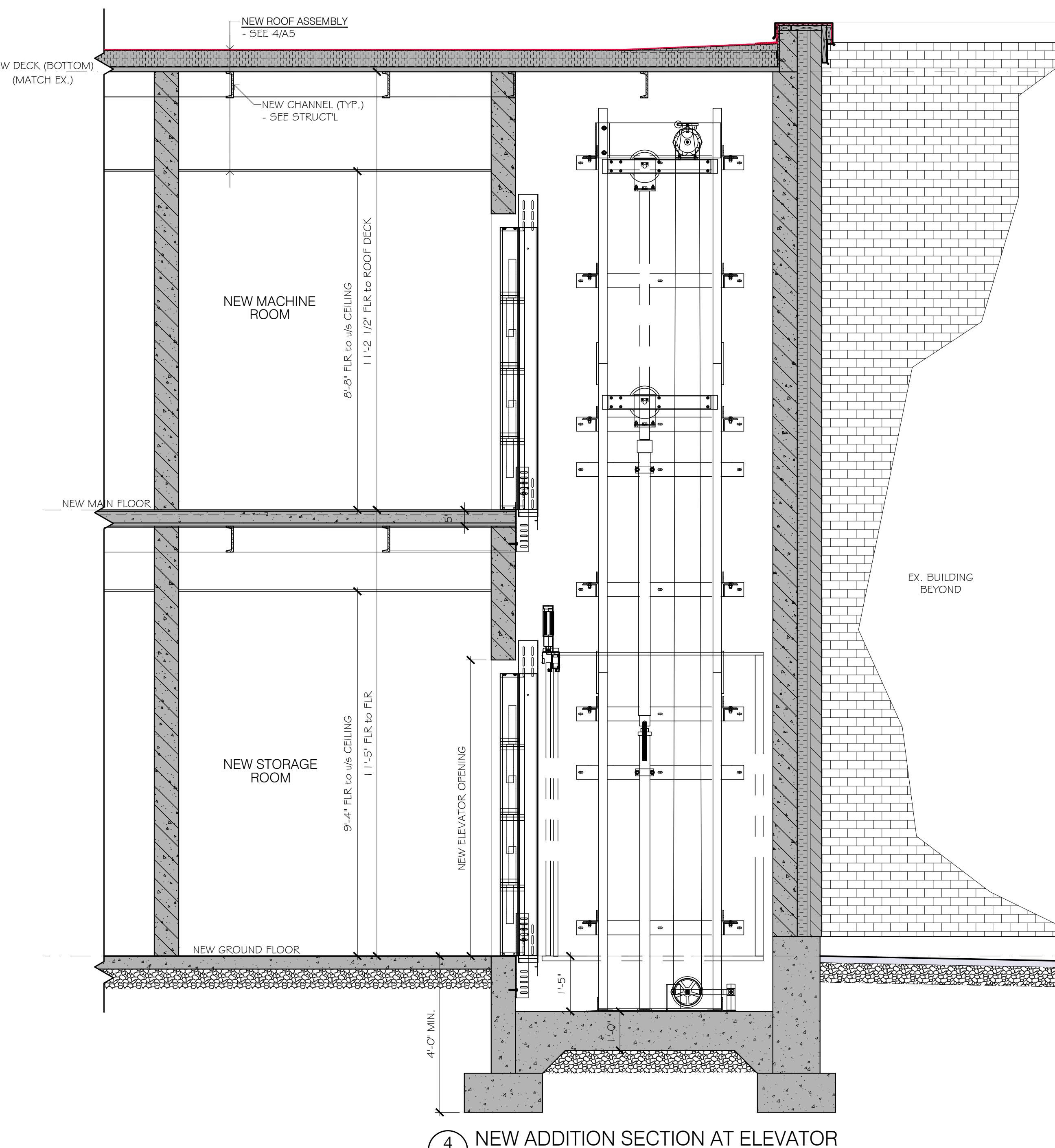
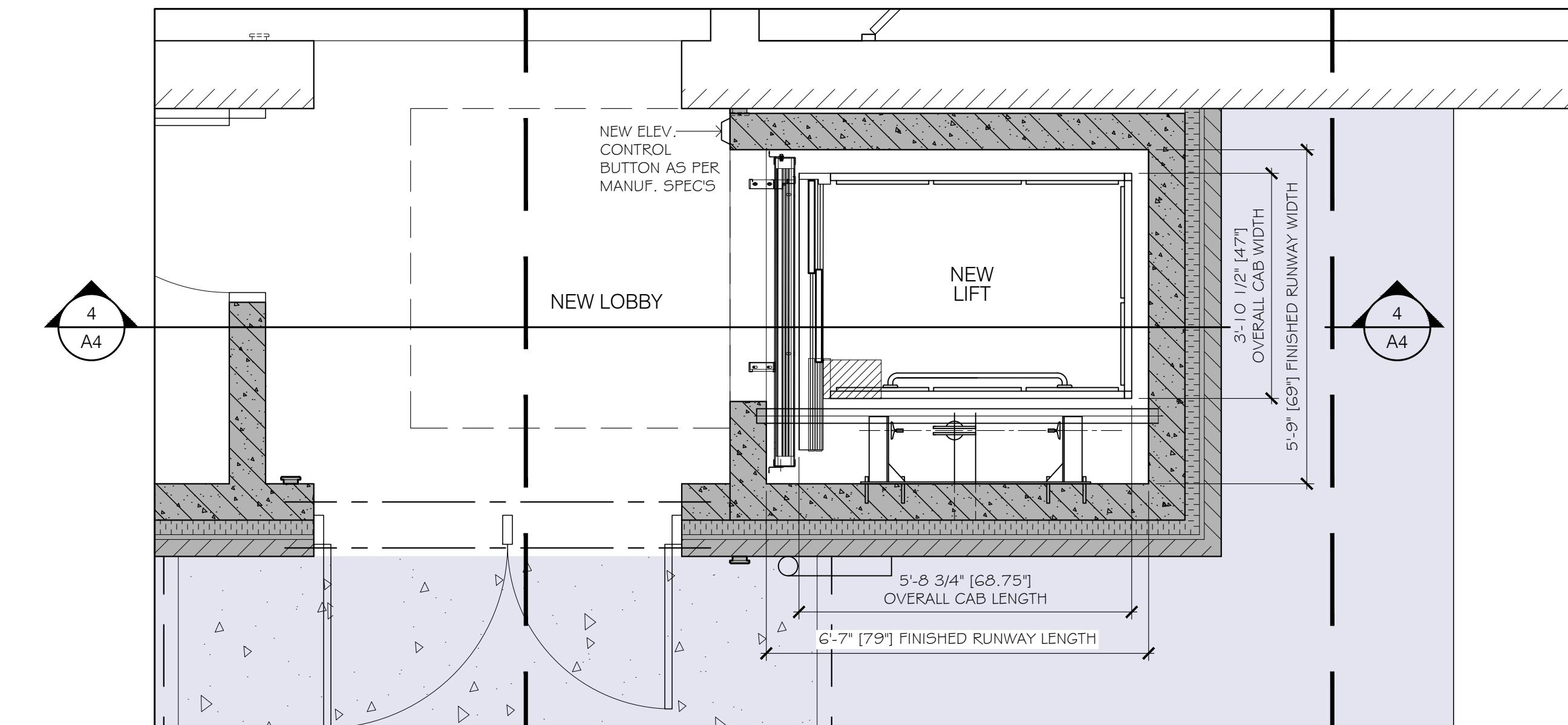
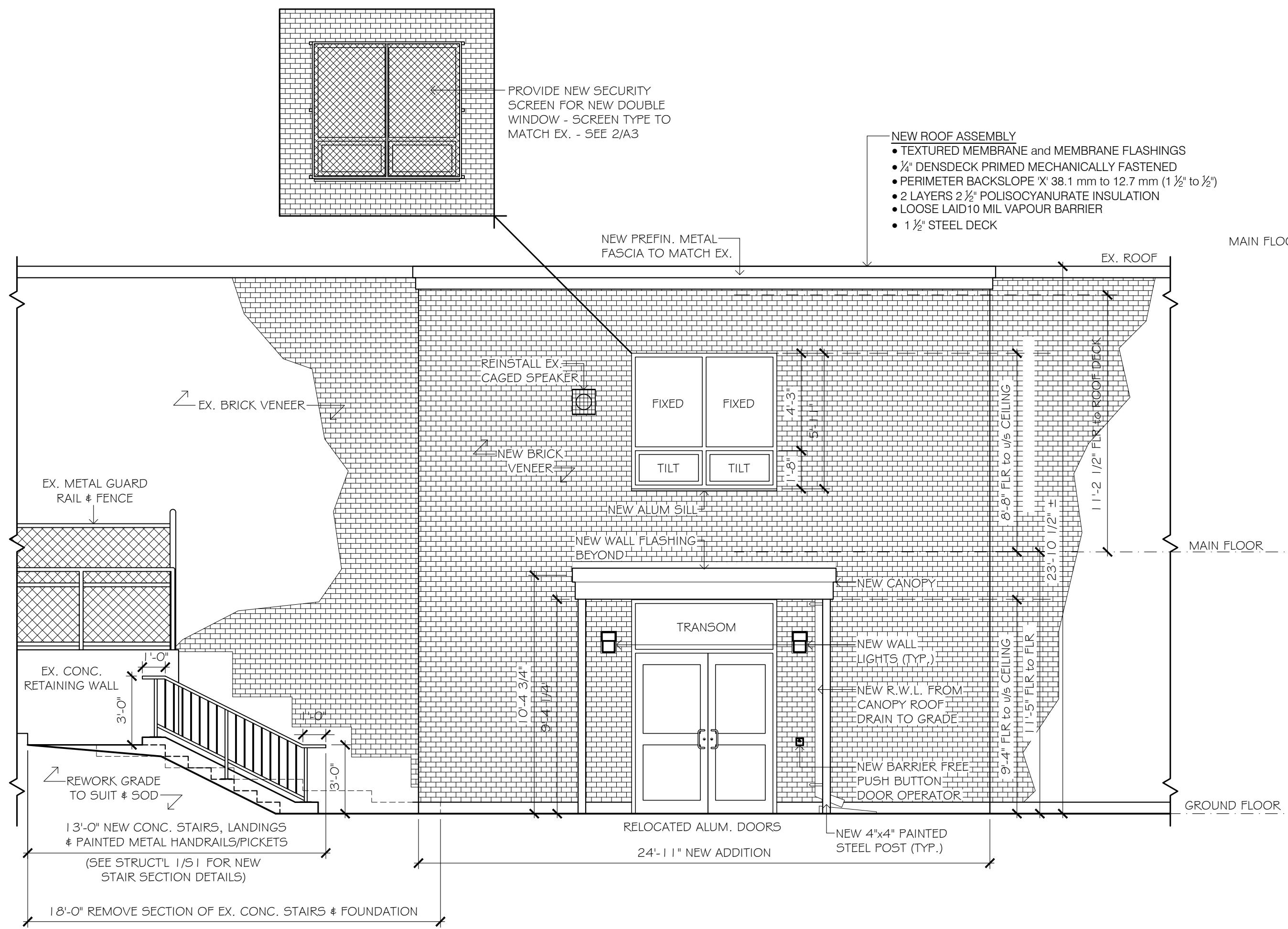
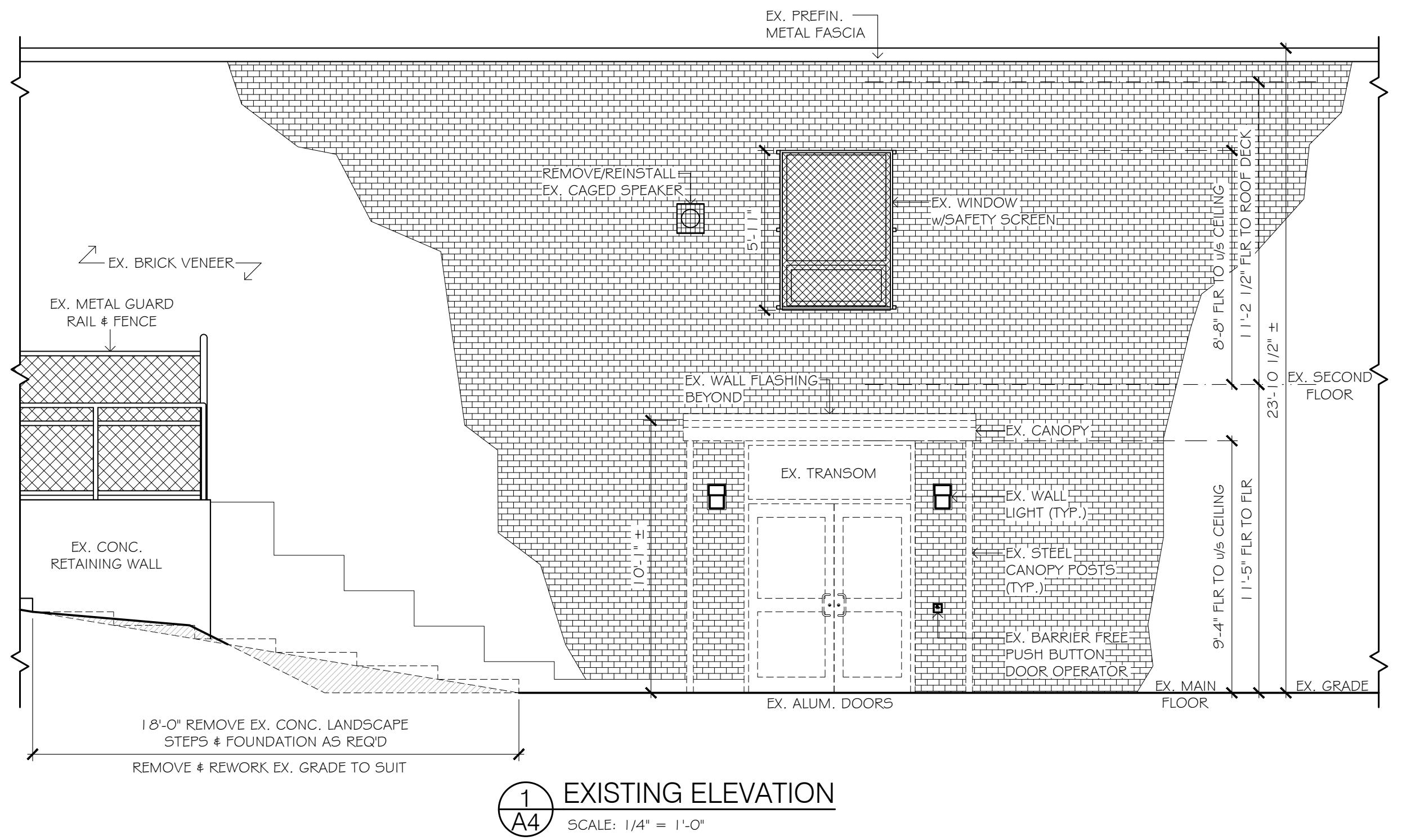
A3 OF 5
240G0



EX. DOOR



NEW DOOR



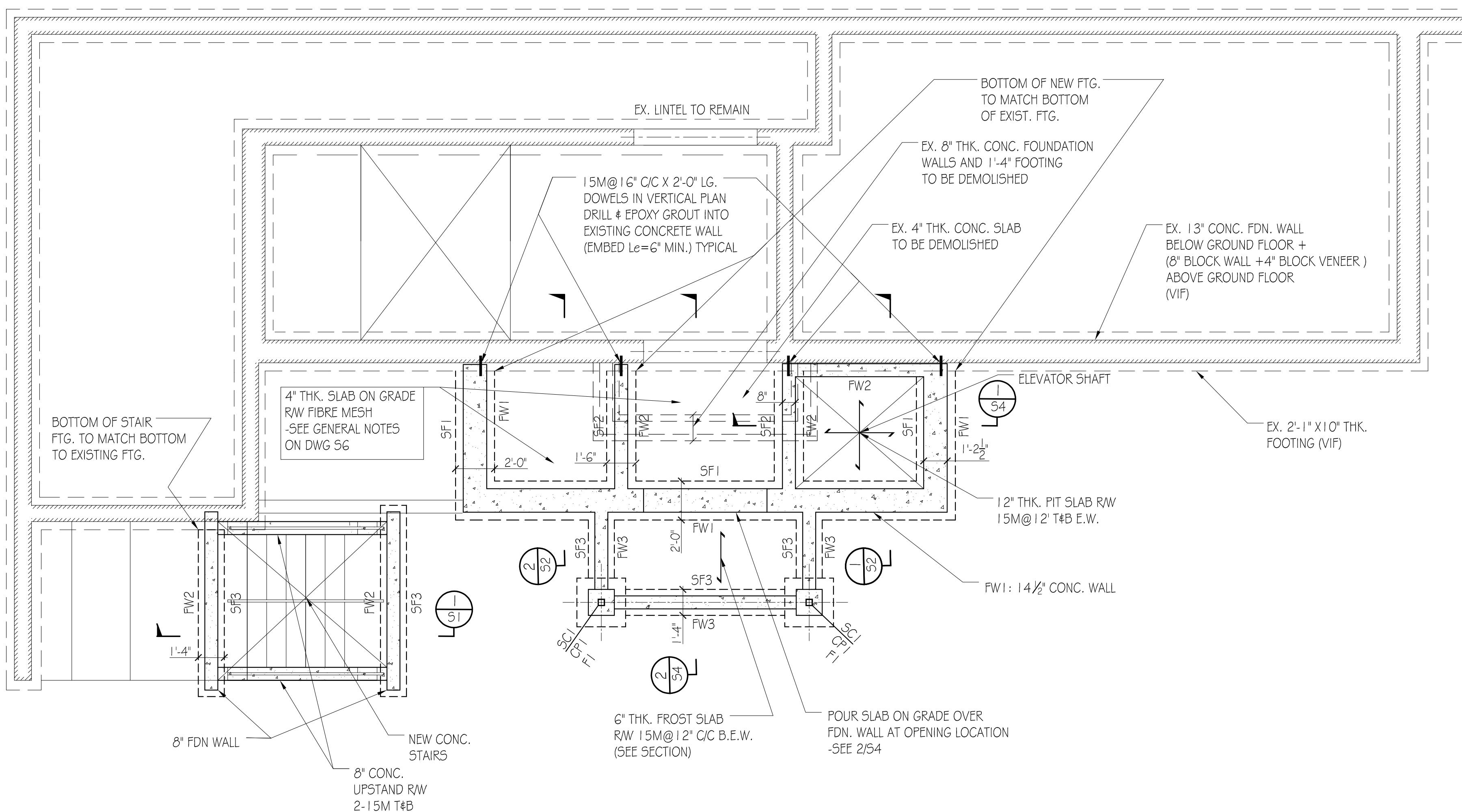
FOR PERMIT & TENDER FEB 6, 2026
ISSUED: DATE:
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PROJECT:
NEW ELEVATOR ADDITION
ST. MARY CATHOLIC
ELEMENTARY SCHOOL

35 CENTRE ST, CAMPBELLFORD, ON K0L 1L0

DRAWING TITLE:
NEW ELEVATOR SECTION
NEW REFLECTED CEILING
PLANS

SCALE: AS NOTED DRAWING NUMBER:
DRAWN BY: SV
CHECKED BY: GW
A4 OF 5
24060



FOUNDATION PLAN

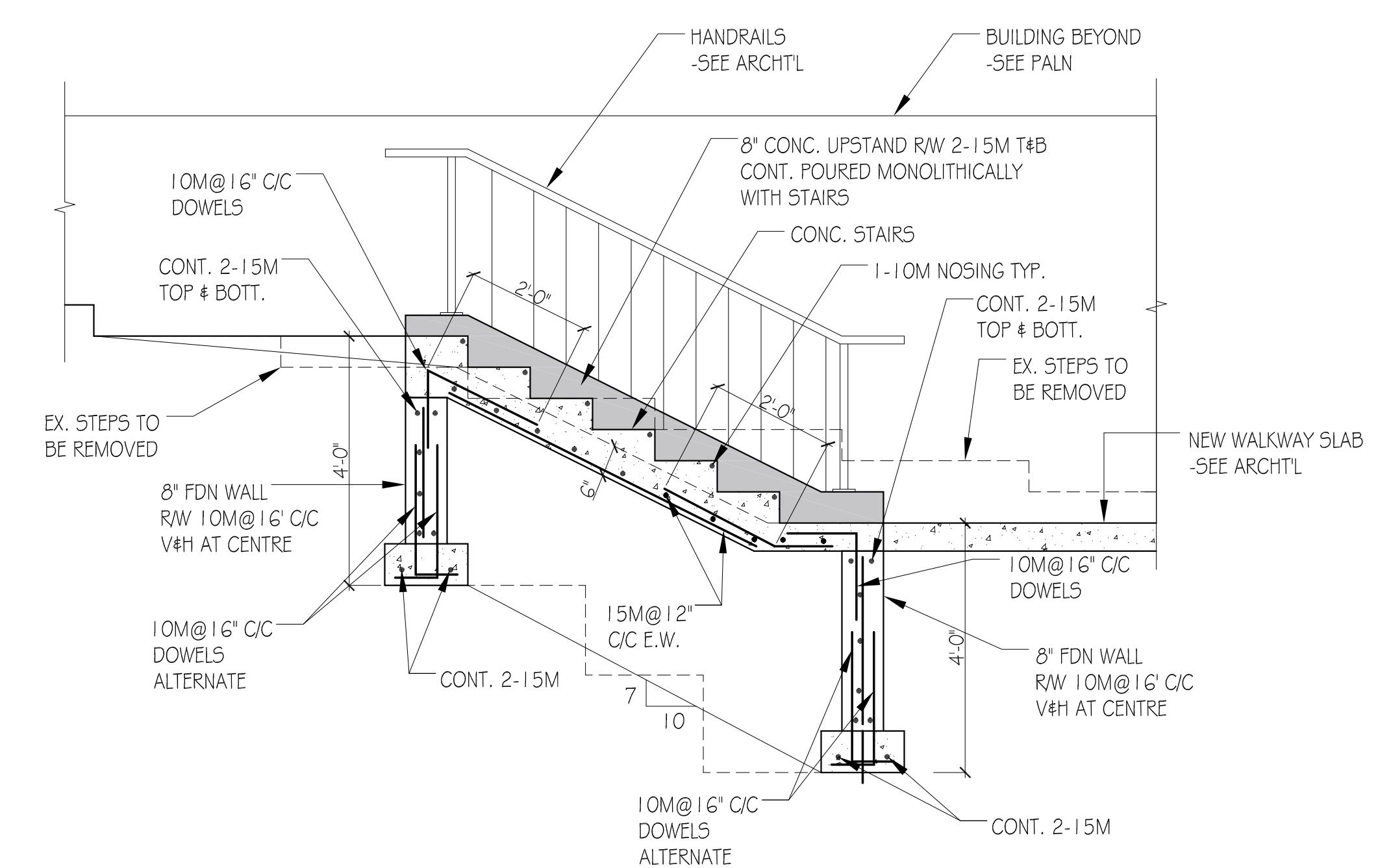
SCALE: $\frac{1}{4}'' = 1'-0''$

NOTES:

1. ALL EXISTING FRAMING & DIMENSIONS SHALL BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION.
2. SEE ARCH'TL DRAWINGS FOR DIMENSIONS, ELEVATIONS, AND SLOPES.
3. SEE ALSO SCHEDULES, GENERAL NOTES AND TYPICAL DETAILS ON DRAWING S5 & S6.

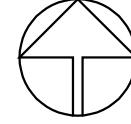
NOTE

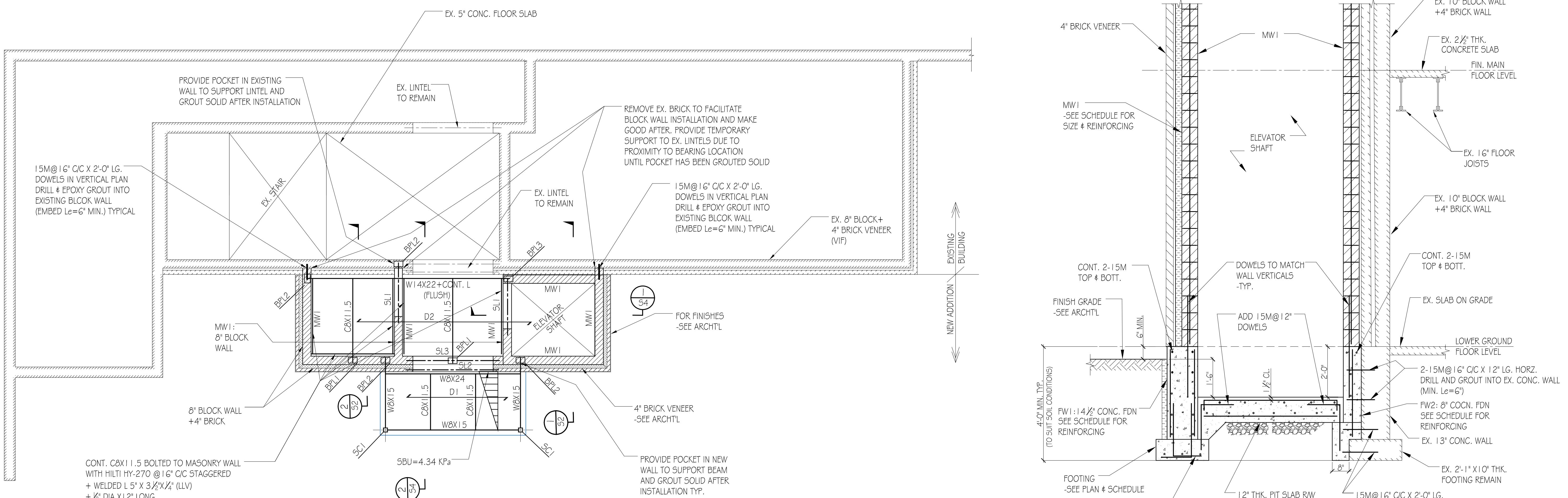
DESIGN SOIL BEARING PRESSURE OF 150KPA (3000 PSF) TO BE
VERIFIED IN FIELD BY SOIL ENGINEER PRIOR TO CONSTRUCTION.
ARCH / GC TO COORDINATE TYP



SECTION

SCALE, V''

	ISSUED FOR PERMIT	FEB 04/26	D.K
	ISSUED FOR PROGRESS	DEC 23/25	D.K
No.	REVISION	DATE	BY
<p>All drawings, plans, models, designs, specifications and other documents prepared by AMR Engineering Limited ("AMR") and used in connection with this project are instruments of service for the work shown in them (the "Work") and as such are and remain the property of AMR whether the Work is executed or not, and AMR reserves the copyright in them and in the Work executed from them, and they shall not be used for any other work or project. Contractor shall verify all dimensions etc. on site and shall be responsible for reporting any discrepancies to the engineer.</p>		 PROJECT NORTH	
CLIENT:  WILCOX ARCHITECTS INC. 74 LINDSAY ST. S. LINDSAY, ONT.			
PROJECT: <h1>RENOVATIONS TO ST. MARY CATHOLIC ELEMENTARY SCHOOL</h1> <p>35 CENTRE ST. CAMPBELLFORD, ON, K0L 1L0</p>			
DRAWING: FOUNDATION AND KEY PLAN & SECTION			
 <p>AMR ENGINEERING LTD. STRUCTURAL ENGINEERS 920 ALNESS STREET, SUITE 205 TORONTO, ON M3J 2H7 (416) 551-1611</p>			
DRAWN BY:		AMR PROJECT No.	
M.K.		25-2329	
CHECKED BY:		DWG. No.	
D.K.		S1	
DATE:		OF 6	
FEB 04/26			
SCALE:		AS NOTED	



MAIN FLOOR AND CANOPY
FRAMING PLAN

A
52

SCALE: $\frac{1}{4}'' = 1'-0''$

NOTES:

- SEE ARCHIT'L DRAWINGS FOR DIMENSIONS, ELEVATIONS, AND SLOPES.
- SEE ALSO SCHEDULES, GENERAL NOTES AND TYPICAL DETAILS ON DRAWING 55. & 56.

DESIGN LOADS

MAIN FLOOR FRAMING DESIGN LOADS:
DEAD LOAD = 3.35 kPa
LIVE LOAD = 4.80 kPa
TOTAL LOAD = 8.15 kPa

NEW CANOPY ROOF FRAMING DESIGN LOADS:
DEAD LOAD = 1.20 kPa
LIVE LOAD = 1.76 kPa + SBU (SNOW BUILD-UP)
TOTAL = 2.96 kPa + SBU (SNOW BUILD-UP)

NOTE: EXISTING FLOOR FRAMING
ASSUMED TO BE ADEQUATE
FOR 4.8 kPa. LIVE LOAD

NOTE 'B':

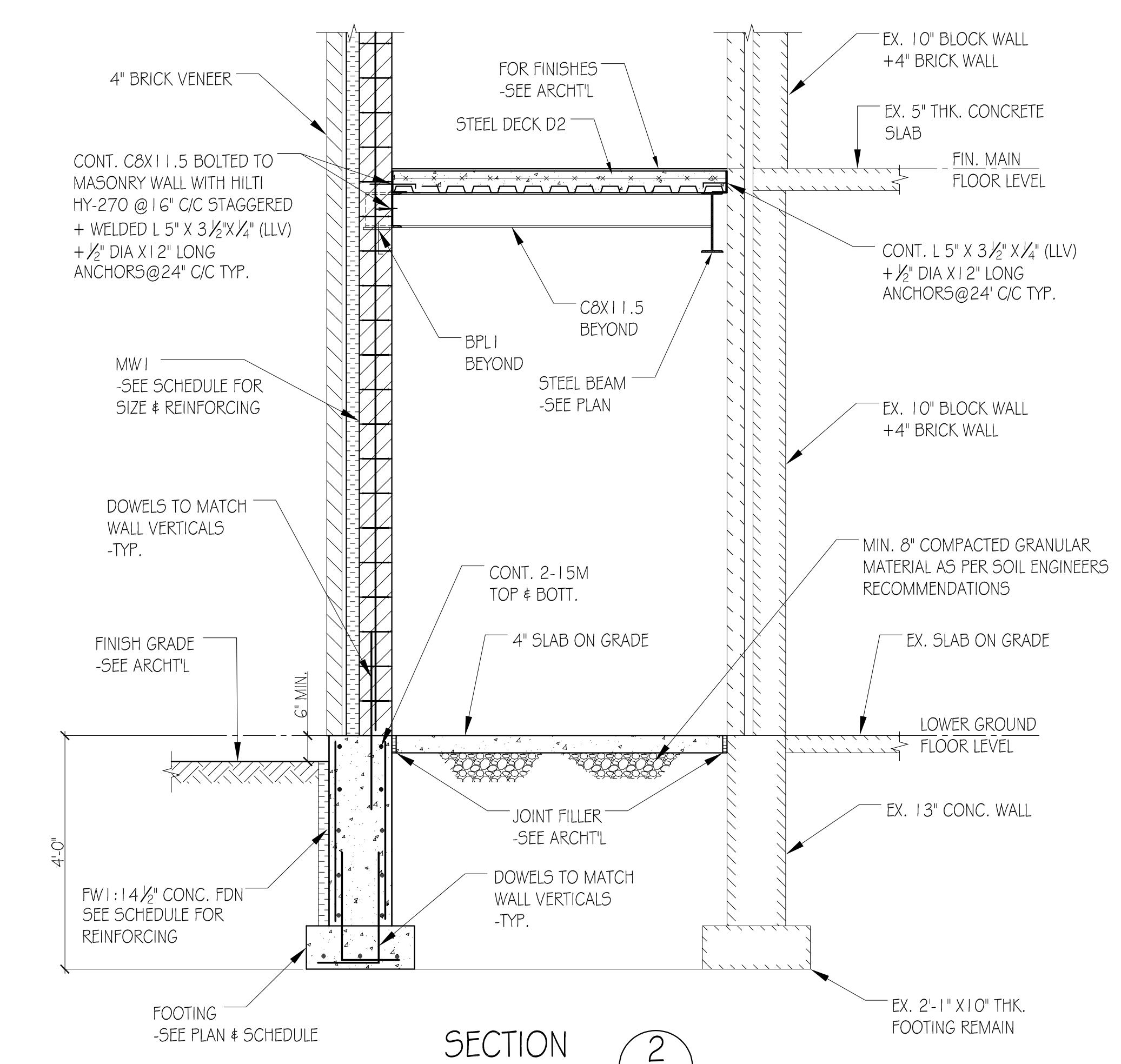
CONTRACTOR TO VERIFY ALL LOAD BEARING
STRUCTURE ON SITE AND PROVIDE ADEQUATE
TEMPORARY SHORING AS REQUIRED PRIOR TO
ANY LOAD BEARING STRUCTURE REMOVAL.
SEE ALSO TEMPORARY SHORING NOTES ON DWG. 56

NOTE 'A':

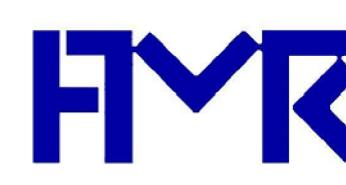
ALL EXISTING STRUCTURAL FRAMING IS ASSUMED
AS SHOWN ON THE DRAWINGS. LIMITED DRAWINGS OF
EXISTING BUILDING WERE MADE AVAILABLE FOR REVIEW.
CONTRACTOR TO VERIFY ALL EXISTING FRAMING IN FIELD
PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES
TO ENGINEER FOR REVIEW.

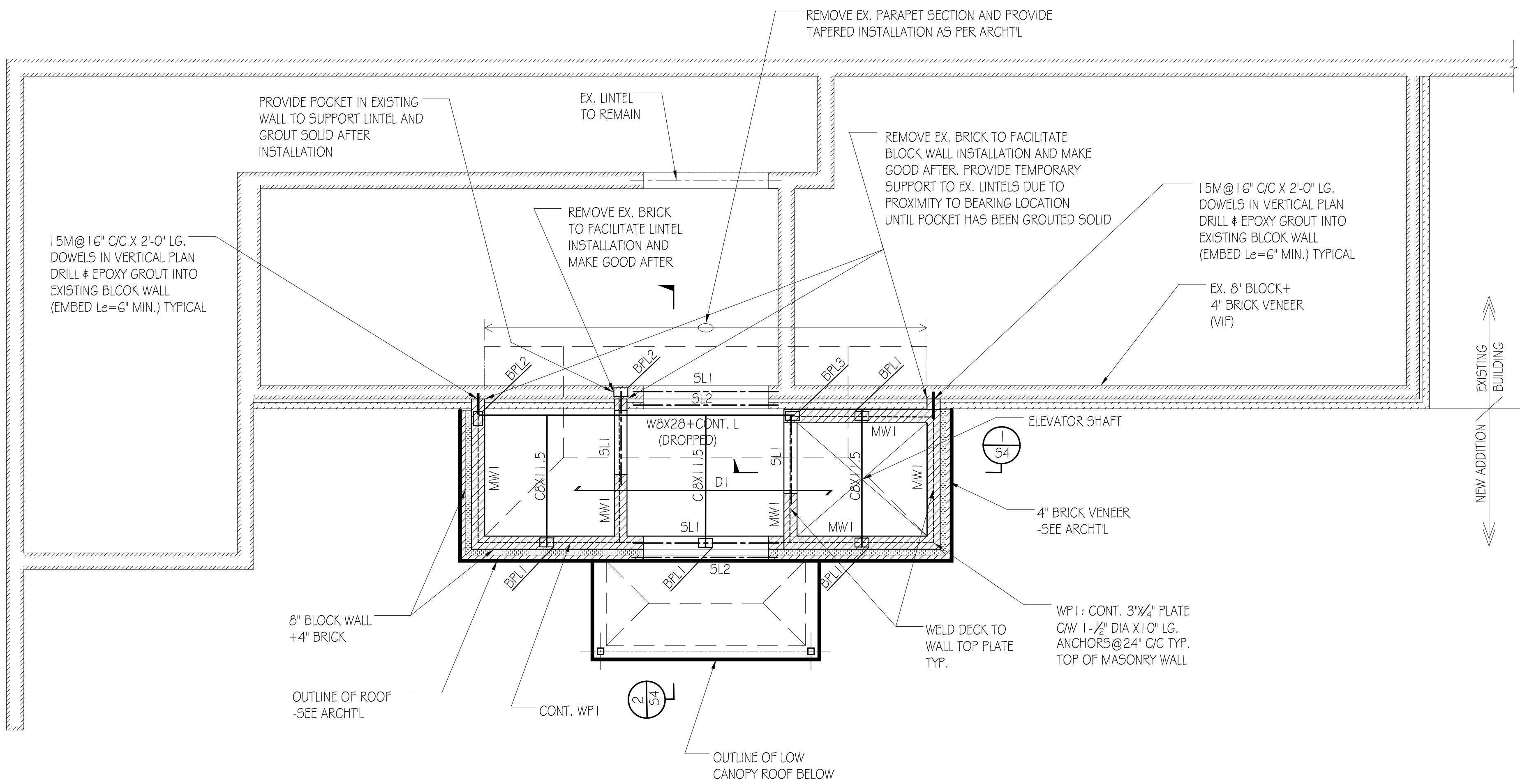
NOTE 'C':

PROVIDE 200 X 400 DEEP SOLID BLOCK BAND
FOR ATTACHMENT OF RAILS. COORDINATE
NUMBER & LOCATION WITH ELEVATOR SUPPLIER.



SECTION
SCALE: $\frac{1}{2}'' = 1'-0''$

ISSUED FOR PERMIT	FEB 04/26	D.K
ISSUED FOR PROGRESS	DEC 23/25	D.K
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<small>CLIENT: WILCOX ARCHITECTS INC. 74 LINDSAY ST. S., LINDSAY, ONT.</small>		
<small>PROJECT: RENOVATIONS TO ST. MARY CATHOLIC ELEMENTARY SCHOOL</small>		
<small>35 CENTRE ST. CAMPBELLFORD, ON, K0L 1L0</small>		
<small>DRAWING: MAIN FLOOR AND CANOPY FRAMING PLAN & SECTIONS</small>		
		
<small>AMR ENGINEERING LTD. STRUCTURAL ENGINEERS 920 ALNESS STREET, SUITE 205 TORONTO, ON M3J 2H7 (416) 551-1611</small>		
DRAWN BY:	M.K.	AMR PROJECT No.
CHECKED BY:	D.K.	25-2329
DATE:	FEB 04/26	DWG. No.
SCALE:	AS NOTED	S2 OF 6



ROOF FRAMING PLAN

A circular logo with a horizontal line through the center. The letter 'A' is positioned above the line, and the letters 'S3' are positioned below the line.

SCALE: $\frac{1}{4}$ " = 1'-0"

NOTES:

1. SEE ARCH'L DRAWINGS FOR DIMENSIONS, ELEVATIONS, AND SLOPES.
2. SEE ALSO SCHEDULES, GENERAL NOTES AND TYPICAL DETAILS ON DRAWING S5. & S6.

DESIGN LOADS

NEW ROOF FRAMING DESIGN LOADS:

DEAD LOAD	= 1.20 kPa
LIVE LOAD	= 1.76 kPa + SBU (SNOW BUILD-UP)
<u>TOTAL</u>	<u>= 2.96 kPa + SBU (SNOW BUILD-UP)</u>

NOTE 'A'

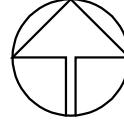
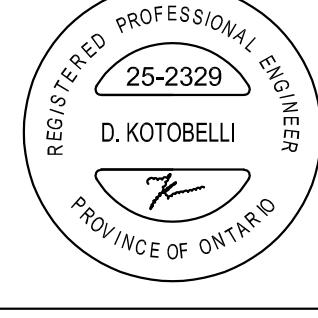
ALL EXISTING STRUCTURAL FRAMING IS ASSUMED AS SHOWN ON THE DRAWINGS. LIMITED DRAWINGS OF EXISTING BUILDING WERE MADE AVAILABLE FOR REVIEW. CONTRACTOR TO VERIFY ALL EXISTING FRAMING IN FIELD PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENGINEER FOR REVIEW.

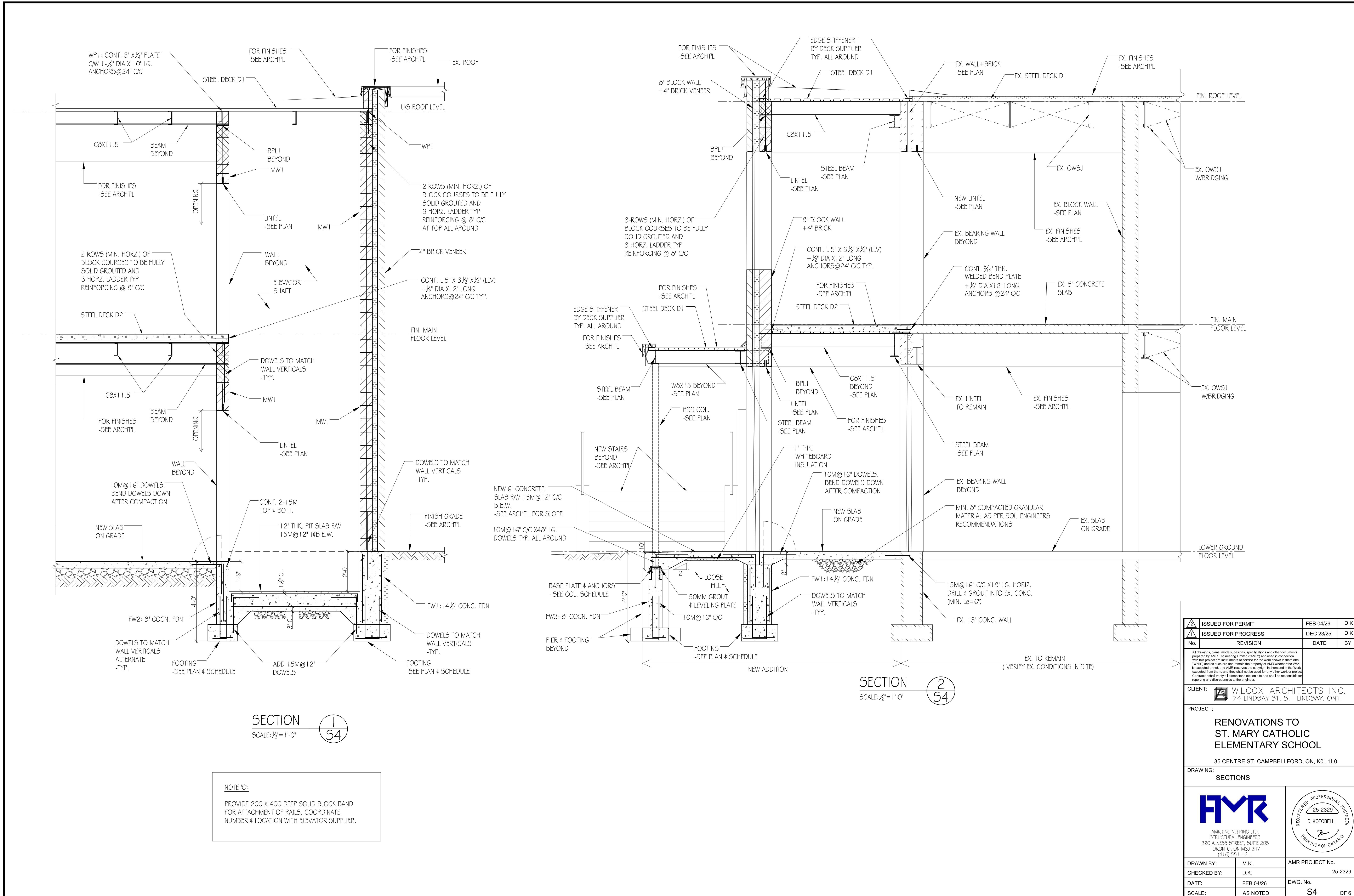
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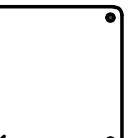
CONTRACTOR TO VERIFY ALL LOAD BEARING
STRUCTURE ON SITE AND PROVIDE ADEQUATE
TEMPORARY SHORING AS REQUIRED PRIOR TO
ANY LOAD BEARING STRUCTURE REMOVAL
SEE ALSO TEMPORARY SHORING NOTES ON DWG. 56

NOTE 'C':

PROVIDE 200 X 400 DEEP SOLID BLOCK BAND FOR ATTACHMENT OF RAILS. COORDINATE NUMBER & LOCATION WITH ELEVATOR SUPPLIER.

	ISSUED FOR PERMIT	FEB 04/26	D.K
	ISSUED FOR PROGRESS	DEC 23/25	D.K
No.	REVISION	DATE	BY
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CLIENT:  WILCOX ARCHITECTS INC. 74 LINDSAY ST. S. LINDSAY, ONT.			
PROJECT: <h1>RENOVATIONS TO ST. MARY CATHOLIC ELEMENTARY SCHOOL</h1> <p>35 CENTRE ST. CAMPBELLFORD, ON, K0L 1L0</p>			
DRAWING: ROOF FRAMING PLAN			
 <p>AMR ENGINEERING LTD. STRUCTURAL ENGINEERS 920 ALNESS STREET, SUITE 205 TORONTO, ON M3J 2H7 (416) 551-1611</p>		 <p>REGISTERED PROFESSIONAL ENGINEER 25-2329 D. KOTOBELLI  PROVINCE OF ONTARIO</p>	
DRAWN BY:	M.K.	AMR PROJECT No.	
CHECKED BY:	D.K.	25-2329	
DATE:	FEB 04/26	DWG. No.	
SCALE:	AS NOTED	S3 OF 6	

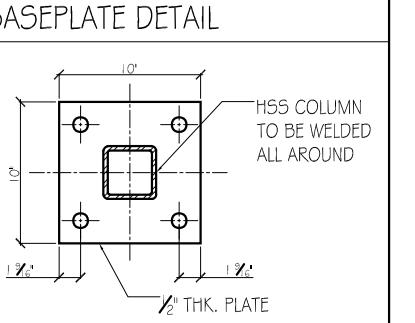


PIER SCHEDULE		
MARK	SIZE	NOTES
CPI	16" X 16" CONC. PIER + 4-15M VERTICALS + 10M@ 2" O/C TIES + 2 SET OF TIES AT TOP	

STRIP / SPREAD FOOTING SCHEDULE		
MARK	SIZE	NOTES
FI	2'-6" X 2'-6" X 8" DP. + 3-15M CONT. B.E.W.	PROVIDE 15M DOWELS TO CONCRETE PIER ABOVE (SEE SECTIONS)
SF1	2'-0" X 10" DP. RW + 3-15M CONT. BOTTOM	PROVIDE 15M DOWELS TO CONCRETE WALL ABOVE (SEE SECTIONS)
SF2	1'-6" X 10" DP. RW + 2-15M CONT. BOTTOM	PROVIDE 15M DOWELS TO CONCRETE WALL ABOVE (SEE SECTIONS)
SF3	1'-4" X 8" DP. RW + 2-15M CONT. BOTTOM	PROVIDE 15M DOWELS TO CONCRETE WALL ABOVE (SEE SECTIONS)

FOUNDATION WALL SCHEDULE		
MARK	SIZE	REINFORCING
FW1	14 1/2" CONCRETE FDN. WALL RW + 15M@ 12" C/C V.E.F. + 10M@ 16" H.E.F.	SEE ALSO SECTION AND GENERAL NOTES
FW2	8" CONCRETE FDN. WALL RW + 10M@ 16" C/C V.H. @ CENTRE	SEE ALSO SECTION AND GENERAL NOTES
FW3	8" CONCRETE FDN. WALL RW + 2-15M TOP & BOTTOM	SEE ALSO SECTION AND GENERAL NOTES

MASONRY WALL SCHEDULE		
MARK	SIZE	REINFORCING
MW1	8" BLOCK WALL (TYPE "S" MORTAR)	15M@ 16" C/C VERTICALS GROUTED + 4.7GM/M EXTRA HEAVY DUTY BLOK LOK (LADDER TYPE) REINFORCING @ 16" C/C MAX. -TYP. FULL HEIGHT. SEE ALSO GENERAL NOTES.

STEEL COLUMN SCHEDULE				
MARK	SIZE	BASEPLATE	ANCHOR BOLTS	BASEPLATE DETAIL
SCI	HSS 4" X 4" X 1/4"	10" X 1/2" X 10"	4-1/2" DIA X 12" LG ANCHOR (2" HOOK)	

NOTES:

1. UNDER ALL COLUMN BASE PLATE PROVIDE 6MM LEVELING PLATE AND 44MM NON-SHRINK, GROUT.
LEVELING PLATE SHALL PROJECT 12MM BEYOND COLUMN BASE PLATE ALL AROUND.
2. ALL EXTERIOR STEEL COLUMNS BASE PLATE, ANCHOR BOLTS ETC. SHALL BE HOT DIPPED
GALVANIZED DURING STEEL FABRICATION.

BEAM BEARING PLATE SCHEDULE			
MARK	SIZE	ANCHORS	BEARING PAD
BPL1	5" X 1/2" X 5"	1-1/8" DIA X 16" LONG WELDED ANCHORS (2' HOOK)	100% FULLY GROUTED BLOCK TYP.
BPL2	12" X 5/8" X 7"	2-5/8" DIA X 14" LONG WELDED ANCHORS (2' HOOK)	2 COURSES 100% FULLY GROUTED BLOCK TYP.
BPL3	7" X 5/8" X 12"	2-5/8" DIA X 14" LONG WELDED ANCHORS (2' HOOK)	2 COURSES 100% FULLY GROUTED BLOCK TYP.

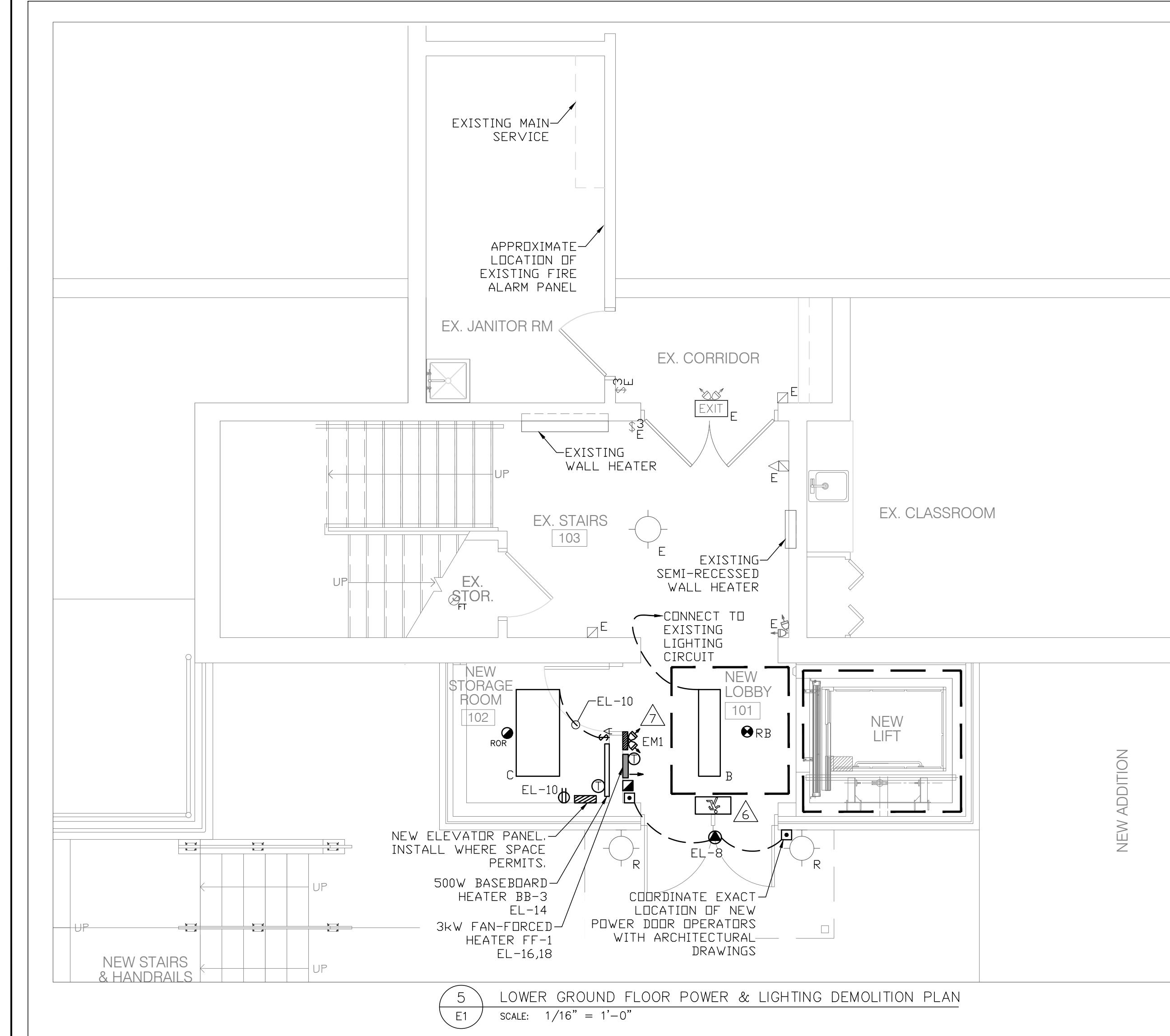
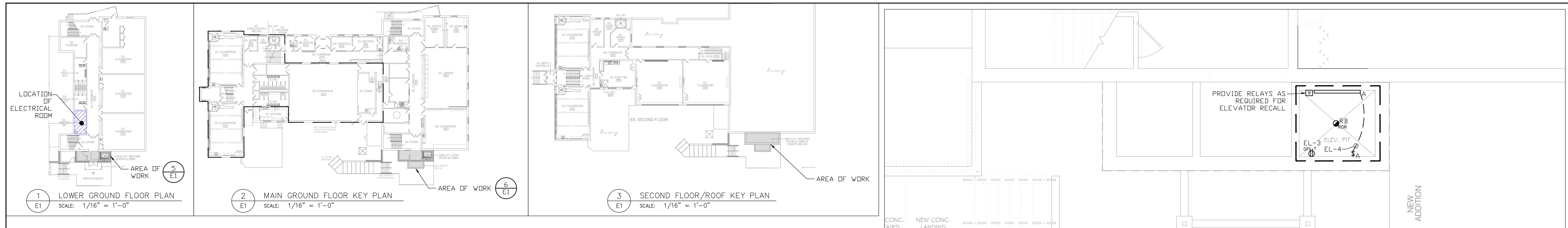
NOTE:
1. LAST DIMENSION SHOWN IS PARALLEL TO BEAM WEB.
2. WELD BEAM TO BEARING PLATE TYP.

STEEL DECK SCHEDULE		
MARK	SIZE	NOTES
D1	1 1/2" STEEL DECK - MIN. 22 GAUGE	MIN. 3 SPAN CONTINUOUS
D2	3 1/2" CONCRETE ON 1 1/2" THK, 22 GAUGE COMPOSITE STEEL DECK WITH GXGX 6/6 WWF MESH REINFORCING	MIN. 3 SPAN CONTINUOUS

STEEL LINTEL SCHEDULE			
MARK	SIZE	BEARING PLATE	NOTES
SL1	JL 2LS 5" X 3.5" X 5/8" (LLV) WELDED	SEE PLANS AND SCHEDULE	PROVIDE MIN. 8" BEARING @ E/E
SL2	L 5" X 3.5" X 5/8" (LLV)	SEE PLANS AND SCHEDULE	PROVIDE MIN. 6" BEARING @ E/E
SL3	JL 2LS 5" X 3.5" X 5/8" (LLV) WELDED	SEE PLANS AND SCHEDULE	PROVIDE MIN. 8" BEARING @ E/E

<input checked="" type="checkbox"/>	ISSUED FOR PERMIT	FEB 04/26	D.K
<input checked="" type="checkbox"/>	ISSUED FOR PROGRESS	DEC 23/25	D.K
No.	REVISION	DATE	BY
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CLIENT: WILCOX ARCHITECTS INC. 74 LINDSAY ST. S. LINDSAY, ONT.			
PROJECT: RENOVATIONS TO ST. MARY CATHOLIC ELEMENTARY SCHOOL			
35 CENTRE ST. CAMPBELLFORD, ON, K0L 1L0			
DRAWING: SCHEDULES			
FMR		REGISTERED PROFESSIONAL ENGINEERS 25-2329 D. KOTOBELLI PROVINCE OF ONTARIO	
DRAWN BY:	M.K.	AMR PROJECT No. 25-2329	
CHECKED BY:	D.K.		
DATE:	FEB 04/26	DWG. No.	
SCALE:	AS NOTED	S5 OF 6	

DESIGN CODE	NON-STRUCTURAL ELEMENTS	TYPICAL FOOTING ADJACENT TO EXCAVATION	CONCRETE	STRUCTURAL STEEL
1. THE COMPLETED RENOVATION TO THE STRUCTURE SHOWN ON THE STRUCTURAL DRAWINGS HAS BEEN DESIGNED IN SUBSTANTIAL ACCORDANCE WITH THE ONTARIO BUILDING CODE 2024 WHICH IS BASED ON THE NATIONAL BUILDING CODE OF CANADA 2020.				
DESIGN LOADS				
1. FLOOR AND ROOF PLAN LOADING IS SHOWN ON PLANS. CONTRACTOR CONSTRUCTION LOADS MUST NOT EXCEED THE SPECIFIED DESIGN LOADS. DESIGN LOADS MAY ONLY BE APPLIED AFTER CONCRETE REACHES IT'S DESIGN STRENGTH.	1. "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT PART OF THE STRUCTURAL DESIGN SHOWN ON THESE DRAWINGS. SUCH ELEMENTS ARE DESIGNED, DETAILED AND REVIEWED IN THE FIELD BY OTHERS. THEY APPEAR ON DRAWINGS OTHER THAN THESE DRAWINGS OF AMR. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS. THIS SHALL BE PROVIDED BY SPECIALTY STRUCTURAL ENGINEERS, WHO SHALL ALSO PROVIDE ANY LETTERS REQUIRED BY BUILDING PERMIT AUTHORITIES.	EDGE OF ADJACENT EXCAVATION FOR FOOTINGS, SUMPS, BASEMENT, SITE SERVICES, ETC.	1. CONCRETE IS SPECIFIED AS PER THE "PERFORMANCE" ALTERNATE AS OUTLINED IN TABLE 5 OF CANCSA-A23.	1. STRUCTURAL STEEL SECTIONS SHALL BE NEW AND CONFORM TO THE FOLLOWING:
2. SPECIFIED CONCENTRATED LOADS ARE AS FOLLOWS U.N.O. ON PLAN:	2. EXAMPLES OF NON-STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:		2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR WORKING WITH THE CONCRETE SUPPLIER TO ENSURE THAT THE PLASTIC AND HARDENED MIX PROPERTIES MEET SITE REQUIREMENTS FOR PLACING, FINISHING, AND THE OWNERSHIP OF THE CONCRETE. THE CONTRACTOR SHALL NOTIFY THE CONTRACTOR SHALL MEET THE DOCUMENTATION AND QUALITY CONTROL REQUIREMENTS OUTLINED UNDER THE "PERFORMANCE" ALTERNATE OF TABLE 5 OF CANCSA-A23.	2. A. WIDE FLANGE BEAMS AND WVF SECTIONS — CSA G40.21 350W
A. ROOFS — 1.8 kN	A. ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, B. LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.		B. MISCELLANEOUS ROLLED SECTIONS (EXCEPT WIDE FLANGES) — CSA G40.21 300W	
B. FLOORS — 4.5 kN	C. CLADDING, GLAZING, WINDOW MILLION ETC., INTERIOR STUD WALLS AND EXTERIOR STUD WALLS		C. HOLLOW STRUCTURAL SECTIONS (U, C, I, H, T) — CSA G40.21 350W	
3. SEISMIC AND WIND DESIGN: (CAMPBELLEFORD, ONTARIO)	D. ARCHITECTURAL PRECAST, PRECAST CLADDING, E. EXTERIOR STUD WALLS, F. WINDOW WASHING EQUIPMENT AND ITS ATTACHMENTS, G. ESCALATORS, ELEVATORS, AND CONVEYING SYSTEMS, H. BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS, I. NARROW CONCRETE TOPPINGS, J. NON-STRUCTURAL CONCRETE TOPPINGS.		D. ROLLED PLATES — CSA G40.21 300W	
Sa (0.2) = 0.33 Sa (2.0) = 0.0061 SITE CLASSIFICATION: SITE CLASS "D" Sa (0.5) = 0.33 Sa (5.0) = 0.0258 SEISMIC CATEGORY: SC2 (ASSUMED) Sa (1.0) = 0.2 Sa (10.0) = 0.00812 PGA = 0.184 PGV = 0.213 le = 1.0	Sa (0.2) = 0.33 Sa (2.0) = 0.0061 SITE CLASSIFICATION: SITE CLASS "D" Sa (0.5) = 0.33 Sa (5.0) = 0.0258 SEISMIC CATEGORY: SC2 (ASSUMED) Sa (1.0) = 0.2 Sa (10.0) = 0.00812 PGA = 0.184 PGV = 0.213 le = 1.0		E. BOLTS (SEE PLANS AND DETAILS) — ASTM A325 OR ASTM A493	
3a. EARTHQUAKE DESIGN PARAMETERS	F. STRUCTURAL STEEL ANCHOR RODS (U.N.O.) — CSA G40.21 350W		G. REINFORCING BAR ANCHOR BOLTS — CANCSA-G30.18R, GRADE 36 MINIMUM, GRADE 400	
Sa (0.2) = 0.33 Sa (2.0) = 0.0061 SITE CLASSIFICATION: SITE CLASS "D" Sa (0.5) = 0.33 Sa (5.0) = 0.0258 SEISMIC CATEGORY: SC2 (ASSUMED) Sa (1.0) = 0.2 Sa (10.0) = 0.00812 PGA = 0.184 PGV = 0.213 le = 1.0	3. THE SUPPLIER SHALL MEET ALL CERTIFICATION AND DOCUMENTATION REQUIREMENTS AS OUTLINED UNDER THE "PERFORMANCE" ALTERNATE OF TABLE 5 OF CANCSA-A23.		3. ALL CONNECTIONS TO BE DESIGNED BY FABRICATOR UNLESS NOTED OTHERWISE. OTHERWISE, ALL BEAM CONNECTIONS TO BE STANDARD FRAME BEAM CONNECTIONS OR EQUALMENT, UNLESS NOTED OTHERWISE. SUBMIT LETTER OF CERTIFICATION BY P.ENG RESPONSIBLE FOR DESIGN OF CONNECTIONS.	
4. THE DESIGN WIND LOAD TO BE USED FOR INTERIOR STUDS AND PARTITIONS IS 0.25 kPa (UNFACTORED) UNLESS NOTED OTHERWISE.	4. THE CONCRETE SUPPLIER SHALL BE CERTIFIED BY THE READY MIXED CONCRETE ASSOCIATION OF ONTARIO.		4. PORTMENT CEMENT SHALL BE TYPE GU UNLESS NOTED OTHERWISE.	
3b. WIND DESIGN PARAMETERS:	5. CONCRETE SHALL HAVE A UNIT WEIGHT OF 23±1 kN/m ³ (145±5 PCF) UNLESS NOTED OTHERWISE.		6. THE ULTIMATE 28 DAYS COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 25 MPa WITH AIR ENTRAINMENT CONTENT OF 5% TO 7% (MAX) AND WATER/CEMENT RATIO BY MASS OF 0.55 U.N.O. EXPOSURE CLASS FOR RETAINING/FOUNDATION WALLS SHALL BE F-1. EXPOSURE CLASS FOR INTERIOR SLAB ON GRADE AND FOOTINGS SHALL BE C-2.	
Ce, Cg, and Cp ARE BASED ON OBC CL 4.1.7. $\eta_{f0} = 0.41$ kPa, $\eta_w = 1.0$ ULS, 0.75 SLS	7. THE ULTIMATE 28 DAYS COMPRESSIVE STRENGTH OF CONCRETE EXPOSED TO FREEZING AND THAWING (EXTERIOR SLABS, SIDEWALKS, CURBS, RETAINING WALLS ETC.) SHALL BE 32 MPa WITH MINIMUM AIR ENTRAINMENT CONTENT OF 5% AND MAXIMUM WATER CEMENT RATIO BY MASS OF 0.45. EXPOSURE CLASS FOR CONCRETE EXPOSED TO FREEZING AND THAWING SHALL BE C-2.		8. DO NOT USE CALCIUM CHLORIDE OR OTHER PRODUCTS IN CONCRETE.	
WIND UPLIFT LOADS ON STEEL ROOFS SHALL BE 0.70 kPa NET UNLESS NOTED OTHERWISE ON PLAN.	9. FOR CONCRETE TOPPING USE PEA SIZE AGGREGATE (MAX. 10mm DIAMETER).		10. CURING OF CONCRETE TO MEET THE REQUIREMENTS FOR THE EXPOSURE CLASS AS OUTLINED IN CLAUSE 7.4.1.7 AS WELL AS TABLES 2 AND 20 OF CANCSA-A23.	
GENERAL NOTES	11. CONCRETE REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS:		11. CONCRETE REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS:	
1. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN.	A. CANCSA-G30.18R GRADE 400 MPa - 10M AND LARGER (U.N.O.) GRADE 300 MPa - 10M AND LARGER		A. CANCSA-G30.18R GRADE 400 MPa - 10M AND LARGER (U.N.O.) GRADE 300 MPa - 10M AND LARGER	
2. THE INFORMATION ON THESE DRAWINGS SHALL NOT BE USED FOR ANY OTHER PURPOSES OR WORKS. THE INFORMATION ON THESE DRAWINGS APPLIES SOLELY TO THIS PROJECT.	B. CANSA STANDARD G30.5 GRADE 400 MPa - ALL REINFORCING THAT WILL BE WELDED TO THE REINFORCING STEEL.		B. CANSA STANDARD G30.5 GRADE 400 MPa - ALL REINFORCING THAT WILL BE WELDED TO THE REINFORCING STEEL.	
3. THE DRAWINGS DO NOT SHOW COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES, SHORING, WORK, SHORING, ETC. REQUIRED TO COMPLETE THE WORK.	C. CANCSA-G30.18W GRADE 400 MPa - ALL REINFORCING THAT WILL BE STAPLED TO THE REINFORCING STEEL.		C. CANCSA-G30.18W GRADE 400 MPa - ALL REINFORCING THAT WILL BE STAPLED TO THE REINFORCING STEEL.	
4. "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT PART OF THE STRUCTURAL DESIGN SHOWN ON THESE DRAWINGS. SUCH ELEMENTS ARE DESIGNED, DETAILED AND REVIEWED IN THE FIELD BY OTHERS. THEY APPEAR ON DRAWINGS OTHER THAN THESE DRAWINGS OF AMR. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS. THIS SHALL BE PROVIDED BY SPECIALTY STRUCTURAL ENGINEERS, WHO SHALL ALSO PROVIDE ANY LETTERS REQUIRED BY BUILDING PERMIT AUTHORITIES.	D. CSA STANDARD G279 EPOXY REINFORCING - ASTM A776M AND ASTM C3963		D. CSA STANDARD G279 EPOXY REINFORCING - ASTM A776M AND ASTM C3963	
5. SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO AMR ENGINEERING LIMITED. THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM.	12. TENSION AND COMPRESSION EMBEDMENT AND SPLICE LENGTHS SHALL CONFORM TO CANCSA-A23.3.		12. TENSION AND COMPRESSION EMBEDMENT AND SPLICE LENGTHS SHALL CONFORM TO CANCSA-A23.3.	
SHORING NOTES	13. DO NOT SUBSTITUTE DEFORMED WIRE FOR REINFORCING BARS WITHOUT PRIOR APPROVAL OF THE AMR.		13. DO NOT SUBSTITUTE DEFORMED WIRE FOR REINFORCING BARS WITHOUT PRIOR APPROVAL OF THE AMR.	
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF TEMPORARY SHORING. SUBMIT DRAWING BEARING STAMP OF P.ENG RESPONSIBLE FOR DESIGN WHEN DIRECTED BY THE LOCAL BUILDING AUTHORITY.	14. SUPPORT REINFORCING WITH CHAIRS, ACCESSORIES, OR REINFORCING BARS AS REQUIRED. BARS USED AS SUPPORT BARS SHALL BE CONCRETE GRADE AS ACCORDING TO DRAWINGS.		14. DESIGN DRAWINGS INCLUDE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. SEE ALSO ARCHITECTURAL DRAWINGS FOR ROOF AND FLOOR ELEVATIONS, ROOF SLOPES, EDGE DETAILS AND ADDITIONAL DIMENSIONS AND DETAILS WHERE ELEVATIONS, ROOF SLOPES, ETC. ARE SHOWN ON THE STRUCTURAL DRAWINGS, THEY MUST BE CONFORMED WITH THE ARCHITECTURAL DRAWINGS.	
2. THE CONTRACTOR SHALL CHECK AND VERIFY EXISTING SITE CONDITIONS FOR THE EXISTENCE OF ANY OBSTACLES, ETC. IN THE WORK. INCONSISTENCIES AND/OR VARIATIONS IN EXISTING CONDITIONS AFFECTING THIS WORK SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.	15. PROVIDE SUPPORTS OR SUPPORTS TO MAINTAIN CONCRETE COVER AS SPECIFIED. ALL SUPPORTS AND BARS MUST BE TIED TOGETHER TO MAINTAIN REINFORCING STEEL SECURELY IN PLACE DURING CONCRETE PLACEMENT.		15. DESIGN DRAWINGS INCLUDE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. SEE ALSO ARCHITECTURAL DRAWINGS FOR ROOF AND FLOOR ELEVATIONS, ROOF SLOPES, EDGE DETAILS AND ADDITIONAL DIMENSIONS AND DETAILS WHERE ELEVATIONS, ROOF SLOPES, ETC. ARE SHOWN ON THE STRUCTURAL DRAWINGS, THEY MUST BE CONFORMED WITH THE ARCHITECTURAL DRAWINGS.	
3. THE CONTRACTOR MUST TAKE ALL THE NECESSARY PRECAUTIONS TO CARRY OUT THIS WORK AND BE RESPONSIBLE FOR PROTECTION OF THE EXISTING BUILDING THROUGHOUT CONSTRUCTION.	16. DO NOT OVERSTRENGTH REINFORCING IN STEEL TO FIT ANY ANCHOR LOCATIONS. FOR COLUMN BASE PLATES, USE 6 mm OVERSIZED HOLE DIAMETER. USE 6 mm OVERSIZED HOLE DIAMETER FOR COLUMN ANCHOR RODS.		16. UNLESS NOTED OTHERWISE, DO NOT OVERSTRENGTH REINFORCING IN STEEL TO FIT ANY ANCHOR LOCATIONS. FOR COLUMN BASE PLATES, USE 6 mm OVERSIZED HOLE DIAMETER. USE 6 mm OVERSIZED HOLE DIAMETER FOR COLUMN ANCHOR RODS.	
4. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING IN TWO PERPENDICULAR DIRECTIONS TO PREVENT ANY MOVEMENT IN SHORING.	17. SUBMIT SHOP DRAWINGS FOR CONCRETE REINFORCEMENT, BAR SUPPORT AND ACCESSORIES FOR REVIEW BY AMR PRIOR TO PLACEMENT OF REBAR. CLEARLY INDICATE BAR SIZES, GRADES, SPACING, LOCATION AND QUANTITIES OF REINFORCING MESH, BAR SUPPORTS AND ACCESSORIES AND IDENTIFYING CODES FOR CORRECT PLACEMENT WITHOUT REFERENCE TO STRUCTURAL DRAWINGS.		17. SUBMIT SHOP DRAWINGS FOR CONCRETE REINFORCEMENT, BAR SUPPORT AND ACCESSORIES FOR REVIEW BY AMR PRIOR TO PLACEMENT OF REBAR. CLEARLY INDICATE BAR SIZES, GRADES, SPACING, LOCATION AND QUANTITIES OF REINFORCING MESH, BAR SUPPORTS AND ACCESSORIES AND IDENTIFYING CODES FOR CORRECT PLACEMENT WITHOUT REFERENCE TO STRUCTURAL DRAWINGS.	
5. NEW OR SOUND USED MATERIAL MAY BE USED FOR SHORING MEMBERS SUBJECT TO ENGINEERS APPROVAL.	18. PROVIDE 15 MPa CONCRETE. PROVIDE 15 MPa CONCRETE WHERE EXCAVATION RUNS ACROSS AND UNDER WALL FTG. SOIL SLOPE PER GEOTECHNICAL ENGINEER.		18. FOR CONCRETE PATCH MATERIAL USE Sika Latex R AS MANUFACTURER BY Sika OR AN APPROVED EQUAL. FOR CEMENT SLURRY USE ASTM C 150 PORTLAND TYPE I OF II.	
RENOVATIONS	CONCRETE WALLS		1. STEEL DECKING SHALL CONFORM TO CAN/CSA-S13.	1. STEEL DECKING SHALL CONFORM TO CAN/CSA-S13.
1. THE CONTRACT DOCUMENTS ARE BASED ON ASSUMED AS-BUILT DIMENSIONS FOR THE EXISTING BUILDING STRUCTURE AND ASSUMPTIONS IN ACCORDANCE WITH THE LOCAL BUILDING CODE. THE AS-BUILT ASSUMPTIONS MAY VARY FROM THE ACTUAL ON-SITE CONDITIONS. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE CONSULTANT OF ANY ACTUAL CONDITIONS FROM THE AS-BUILT ASSUMPTIONS.	1. DETAILS OF HORIZONTAL REINFORCEMENT AT CORNERS		2. STEEL DECKING SHALL CONFORM TO CSSB SPECIFICATION 10M MINIMUM GRADE 230 ZINC COATED STRUCTURAL QUALITY STEEL FOR ROOF AND FLOOR DECK. BASE STEEL NOMINAL THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUM REQUIREMENTS ONLY.	2. STEEL DECKING SHALL CONFORM TO CSSB SPECIFICATION 10M MINIMUM GRADE 230 ZINC COATED STRUCTURAL QUALITY STEEL FOR ROOF AND FLOOR DECK. BASE STEEL NOMINAL THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUM REQUIREMENTS ONLY.
2. MINOR MODIFICATIONS TO SUIT TOLERANCES OF +/- 50mm WILL BE REQUIRED TO THE WORK INDICATED ON THE DRAWINGS TO ENSURE ACTUAL CONSTRUCTION MEETS THE CONTRACTOR WORK. COORDINATE WITH THE CONSULTANT AND AMR IN THIS REGARD. MINOR MODIFICATIONS WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND WILL NOT RESULT IN A CHANGE IN THE CONTRACT PRICE.	2. STRUCTURAL DRAWINGS INDICATE ONLY LOAD-BEARING WALLS. DESIGN IS BASED ON ENGINEERING ANALYSIS ACCORDING TO CSA S304.1.		3. INTERIOR EXPOSURE DECK SHALL BE ZINC COATED WIPE COAT ZF075 FOR FLOORS AND FOR ROOF EXTERIOR EXPOSURE DECK SHALL BE Z275 ZINC COATED UNLESS NOTED OTHERWISE.	3. INTERIOR EXPOSURE DECK SHALL BE ZINC COATED WIPE COAT ZF075 FOR FLOORS AND FOR ROOF EXTERIOR EXPOSURE DECK SHALL BE Z275 ZINC COATED UNLESS NOTED OTHERWISE.
3. ENSURE THAT ALL NECESSARY JOB DIMENSIONS ARE TAKEN AND ALL TRADES ARE COORDINATED FOR THE PROPER EXECUTION OF THE WORK. THE CONTRACTOR SHALL ASSUME COMPLETER RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF SUCH DIMENSIONS, AND FOR COORDINATION.	3. FLOOR CORES TO BE ALUMINUM SCAFFOLD LOADS WITH 12.5 MPa MIN. GROUT AND 100 mm OF AT LEAST 400 mm THICKNESS DRAINED DOWN FROM THE BEARING UNLESS NOTED OTHERWISE.		4. STEEL DECKING SHALL BE INSTALLED SUCH THAT SHEETS ARE SET FOR A MINIMUM OF THREE SPANS CONTINUOUS UNLESS NOTED OTHERWISE. LIFT OF DECKING SHALL BE LIMITED OR DETAILED TO PREVENT UNDETELE DEFORMATIONS AT THE END OF THE DECK DUE TO END ROTATIONS.	4. STEEL DECKING SHALL BE INSTALLED SUCH THAT SHEETS ARE SET FOR A MINIMUM OF THREE SPANS CONTINUOUS UNLESS NOTED OTHERWISE. LIFT OF DECKING SHALL BE LIMITED OR DETAILED TO PREVENT UNDETELE DEFORMATIONS AT THE END OF THE DECK DUE TO END ROTATIONS.
4. PRIOR TO FABRICATION OF ANY STRUCTURAL MEMBERS, THE CONTRACTOR SHALL COMPLETE THIS SITE REVIEW OF CRITICAL "TIE-IN" DIMENSIONS AND CONFIRM ALL DIMENSIONS TO ENSURE PROPER FIT OF NEW CONCRETE. EXISTING DRAWINGS REPORT ANY DISCREPANCIES TO AMR PRIOR TO STARTING WORK.	4. PROVIDE EXTRA HEAVY DUTY LOK LADDER TYPE REINFORCING OR AN APPROVED EQUAL AT 400 CIC MAXIMUM UNLESS NOTED IN ALL MASONRY WITH TWO OR MORE WYTHES.		5. SEE DRAWINGS FOR DECK THICKNESSES OR DESIGN LOADS.	5. SEE DRAWINGS FOR DECK THICKNESSES OR DESIGN LOADS.
5. COMMENCEMENT OF CONSTRUCTION OR ANY PART THEREOF CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND MEANS DIMENSIONS AND ELEVATIONS HAVE BEEN CONSIDERED, VERIFIED AND ARE ACCEPTABLE.	5. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING TO HOLD FREE STANDING MASONRY WALLS PLUMB & TRUE TO LINE DURING CONSTRUCTION.		6. WHERE DECK IS CALLED UP ON THE DRAWINGS, ALTERNATES MUST BE THE SAME DEPTH TO BE EQUIVALENT FOR DEFLECTIONS, VERTICAL LOAD, AND SHEAR CAPACITY, AND SO ON.	6. WHERE DECK IS CALLED UP ON THE DRAWINGS, ALTERNATES MUST BE THE SAME DEPTH TO BE EQUIVALENT FOR DEFLECTIONS, VERTICAL LOAD, AND SHEAR CAPACITY, AND SO ON.
6. ANY OPENINGS THAT ARE NOT SHOWN OR INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO AMR FOR REVIEW. THE CONTRACTOR SHALL NOT MAKE ANY CHANGES TO THE DRAWINGS, UNLESS APPROVED BY AMR. ANY CHANGES TO THE DRAWINGS, UNLESS APPROVED BY AMR, MAY NOT BE MADE. ANY CHANGES TO THE DRAWINGS, UNLESS APPROVED BY AMR, MAY NOT BE MADE. ANY CHANGES TO THE DRAWINGS, UNLESS APPROVED BY AMR, MAY NOT BE MADE.	6. LOAD BEARING MASONRY IS SHOWN THUS: —————— ON PLAN/SCHEDULE/		7. SUBMIT SITE DRAWINGS INDICATING THE DECK SPANS, THICKNESSES, ROOF SLOPES, AND DETAILS WHERE THE DECK SPANS AND CONNECTIONS ARE NOT SHOWN ON THE DRAWINGS. THE FABRICATOR SHALL DESIGN THE DECK AND CONNECTIONS FOR THE VERTICAL LOADS AND THE CONTRACTOR SHALL DRAWINGS SCALED BY THE CONTRACTOR'S SPECIALTY STRUCTURAL ENGINEER.	7. SUBMIT SITE DRAWINGS INDICATING THE DECK SPANS, THICKNESSES, ROOF SLOPES, AND DETAILS WHERE THE DECK SPANS AND CONNECTIONS ARE NOT SHOWN ON THE DRAWINGS. THE FABRICATOR SHALL DESIGN THE DECK AND CONNECTIONS FOR THE VERTICAL LOADS AND THE CONTRACTOR SHALL DRAWINGS SCALED BY THE CONTRACTOR'S SPECIALTY STRUCTURAL ENGINEER.
7. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, THE CORING OR CUTTING OF OPENINGS THROUGH EXISTING STRUCTURE SHALL NOT CUT INTO REINFORCING BARS. THE CONTRACTOR SHALL LOCATE THE LOCATION, SIZE, THICKNESS, ORIENTATION AND POSITION OF EXISTING REINFORCING AND PROVIDE AMR WITH HARD COPIES OF SUCH FOR OUR REVIEW. THE CONTRACTOR SHALL NOT CUT INTO EXISTING REINFORCING, AND THE HOLES AND SLEEVES SHALL BE LOCATED TO AVOID CUTTING OF REINFORCING BARS. WHERE THIS IS NOT POSSIBLE, IT SHALL BE REPORTED TO AMR FOR REVIEW.	7. IF ARCHITECTURAL DRAWINGS AND SPECIFICATIONS DO NOT REQUIRE A WATERSTOP, FOR WALLS BELOW GRADE, PROVIDE 15 mm DEEP NOTCH AND FILL NOTCH WITH CAULKING OR DAMP PROOFING TO ARCHITECT'S REQUIREMENTS. SEE ARCHITECTURAL SPECIFICATIONS.		8. FASTENINGS - MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE ON DRAWINGS:	8. FASTENINGS - MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE ON DRAWINGS:
8. UNLESS NOTED OTHERWISE AT ALL LOCATIONS WHERE NEW CONCRETE WILL BE IN CONTACT WITH EXISTING CONCRETE SURFACES, THE EXISTING CONCRETE SURFACE IS TO BE COMPLETELY CLEANED AND ROUGHENED BY 1/4 INCH (6 mm) WITH HAMMERING, OR APPROVED EQUAL TO AN AMPLITUDE OF 6 mm (14%).	8. FOR WALLS BELOW GRADE, PROVIDE 15 mm DE			

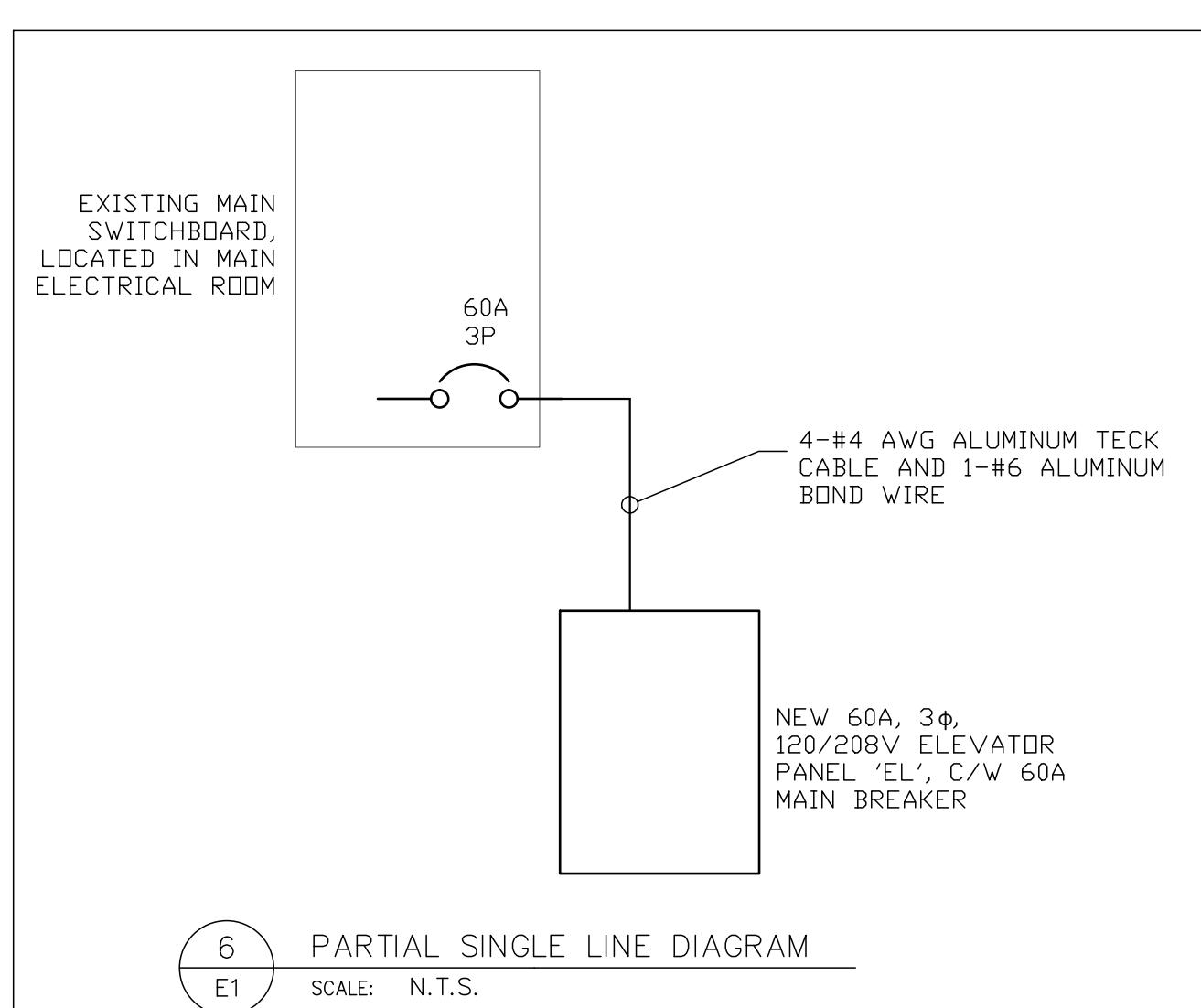
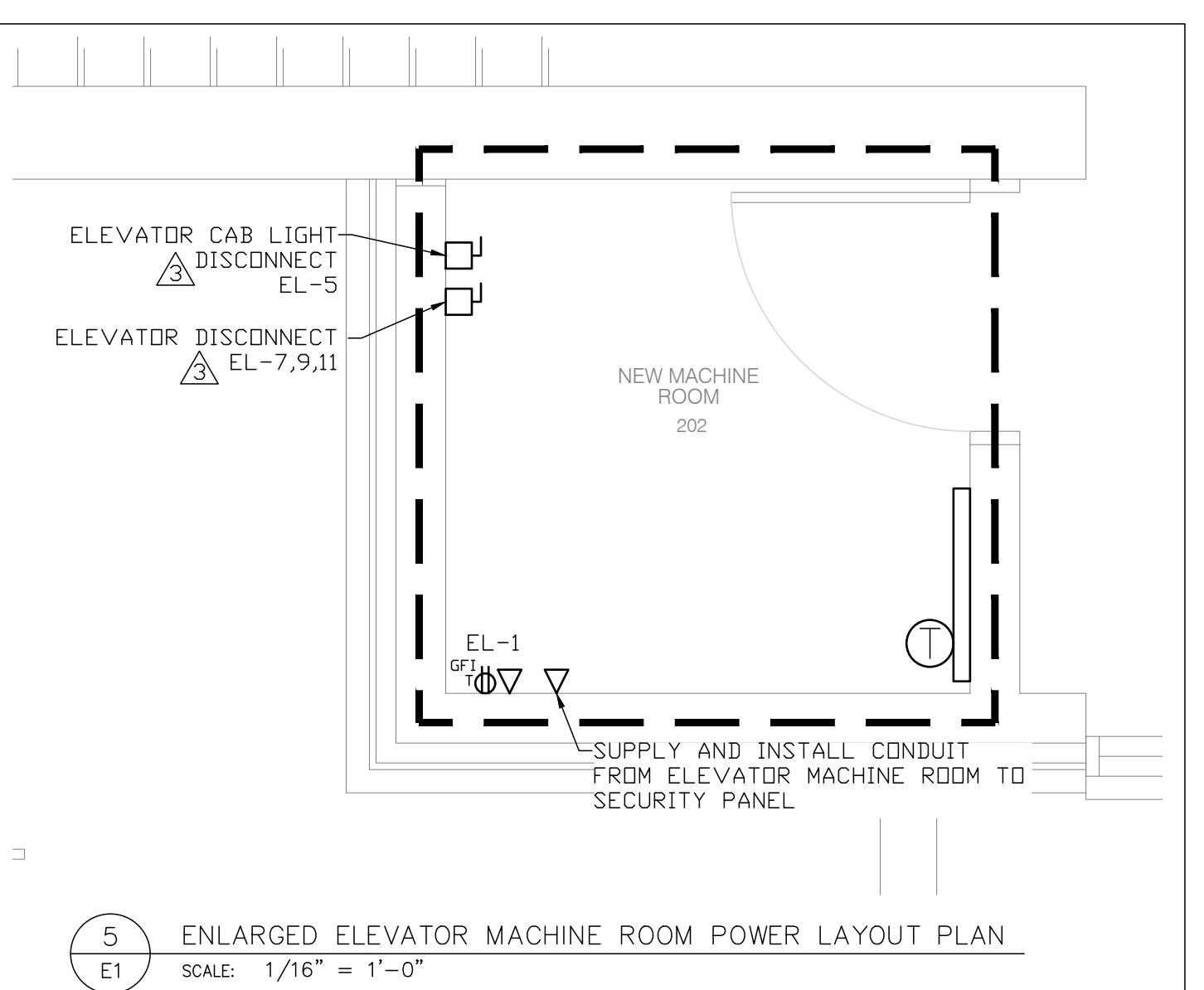
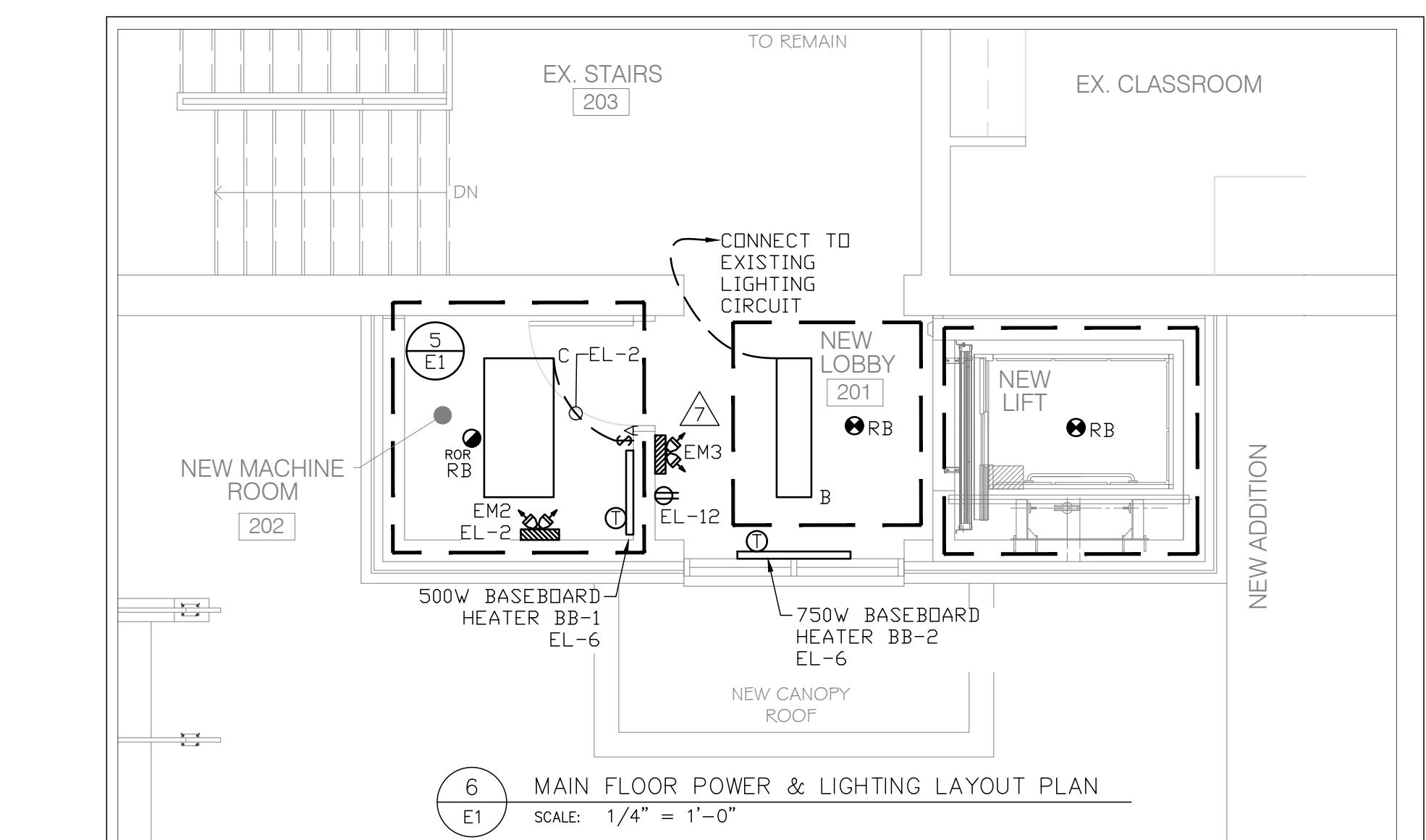


LIGHTING SCHEDULE			
SYMBOL	MODEL No.	MANUFACT.	DESCRIPTION
A	14CGTS-L3C3-4000K-HIGH C/W DF-14W-U	COOPER - METALUX	1'x4" SURFACE MOUNTED LED FLAT PANEL LUMINAIRE, SELECTABLE LUMENS AND CCT, SET TO HIGH LUMEN OUTPUT (4792 LUMENS (34.1W)), 120V, MOUNTED IN T-BAR CEILING
B	4SNLED-LD5-74HL-LN-UNV-L840-CD1-U	COOPER - METALUX	4' LENSED LED STRIPLIGHT, 7548 LUMENS, 62W, SEMI-FROST LENS, 120V, 4000K, 0-10V DIMMING DRIVER
C	14CGTS-L3C3-4000K-HIGH C/W DF-14W-U	COOPER - METALUX	2'x4" SURFACE MOUNTED LED FLAT PANEL LUMINAIRE, SELECTABLE LUMENS AND CCT, SET TO HIGH LUMEN OUTPUT (7229 LUMENS (50.8W)), 120V, MOUNTED IN T-BAR CEILING

LIGHTING CONTROLS SCHEDULE			
SYMBOL	MODEL No.	MANUFACT.	DESCRIPTION
\$A	ONW-D-1001-DMV-WH	GREENGATE	DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR, 120V, WHITE IN COLOUR, PROGRAMMED AUTO-ON (WALL PLATE NOT INCLUDED)

ELECTRIC HEATING EQUIPMENT SCHEDULE			
SYMBOL	MODEL No.	MANUFACTURER	DESCRIPTION
	OAC04000-T	QUELLET OR APPROVED EQUAL	3kW COMMERCIAL FAN-FORCED HEATER, WHITE, 240V, C/W INTEGRAL TAMPERPROOF THERMOSTAT
	ODB0502-TB6	QUELLET OR APPROVED EQUAL	500W BASEBOARD HEATER, WHITE, 120V, C/W INTEGRAL THERMOSTAT
	ODB0752-TB6	QUELLET OR APPROVED EQUAL	750W BASEBOARD HEATER, WHITE, 120V, C/W INTEGRAL THERMOSTAT

EMERGENCY LIGHTING & EXIT SCHEDULE			
SYMBOL	MODEL No.	MANUFACT.	DESCRIPTION
	12ESL36/2U	EMERGLITE OR APPROVED EQUAL	EMERGENCY LIGHTING UNIT, 36W BATTERY CAPACITY, 12VDC, 10 YEAR BATTERY, C/W TWO 5W MR16 LED HEADS AS LISTED AND MOUNTING SHELF



RECEPTACLE LEGEND	
□	RECEPTACLE
•	MONTEED ABOVE COUNTER
T	20A T-SLOT
E	EXISTING
R	RELOCATED

POWER LEGEND	
▲	DIRECT CONNECTION
\$M	MOTOR RATED SWITCH
○	SINGLE PHASE MOTOR
□	POWER DOOR OPERATOR
△	PHONE OUTLET
R	RELAY BASE
E	EXISTING
R	RELOCATED

FIRE ALARM LEGEND	
□	EXISTING PULL STATION
○FT	EXISTING HEAT DETECTOR
●RB	NEW SMOKE DETECTOR C/W RELAY BASE
●RB	NEW RATE OF RISE HEAT DETECTOR C/W RELAY BASE

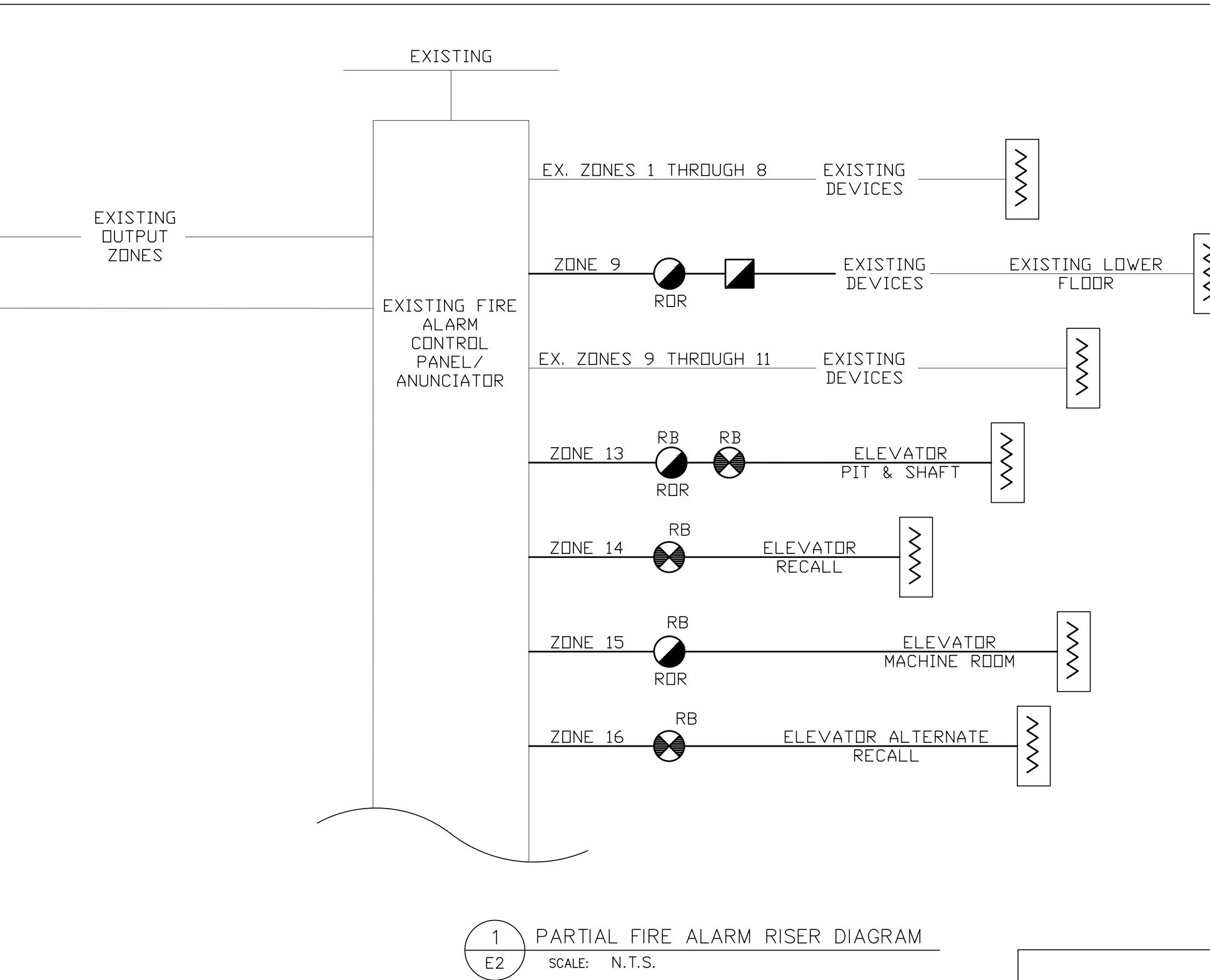
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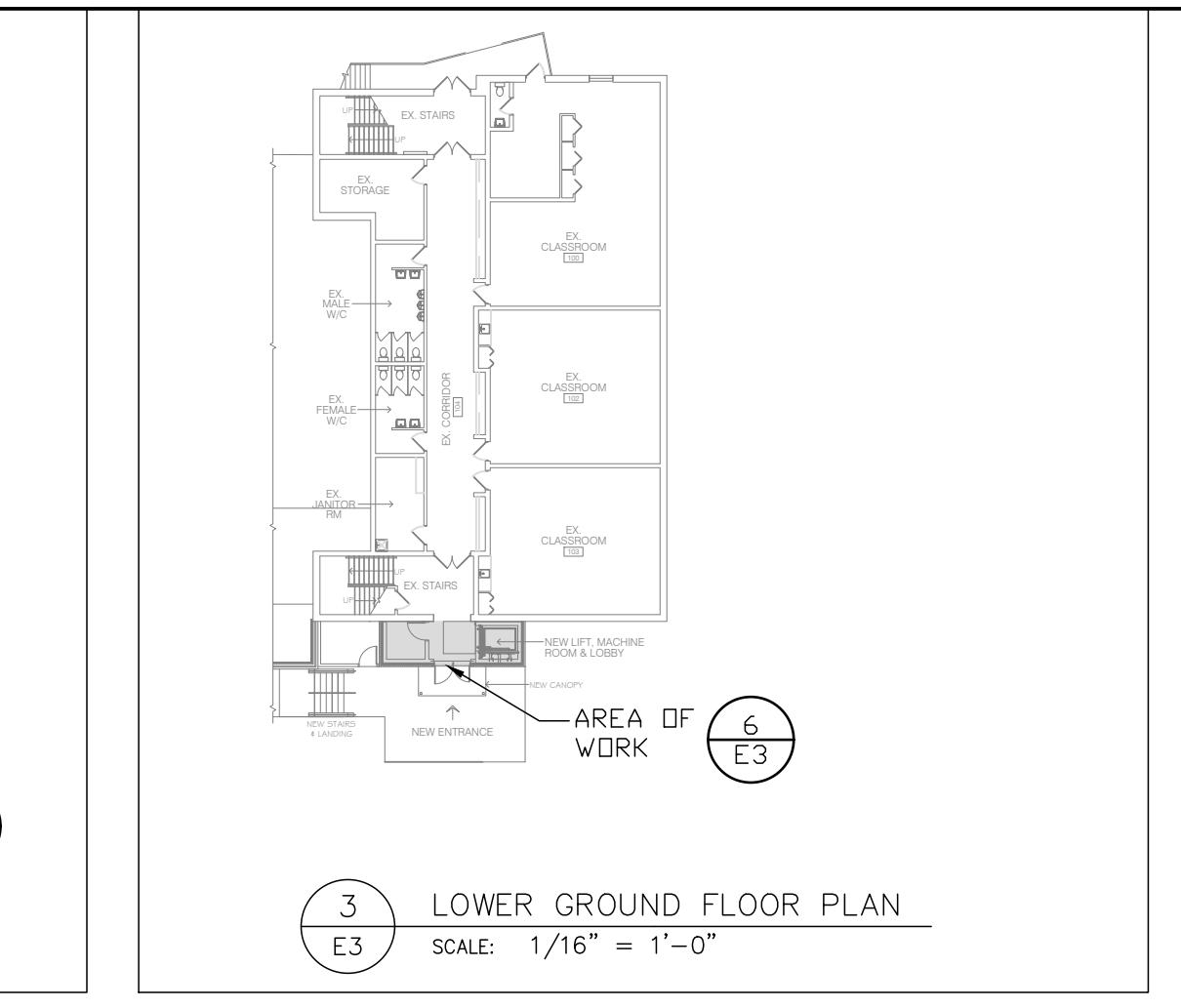
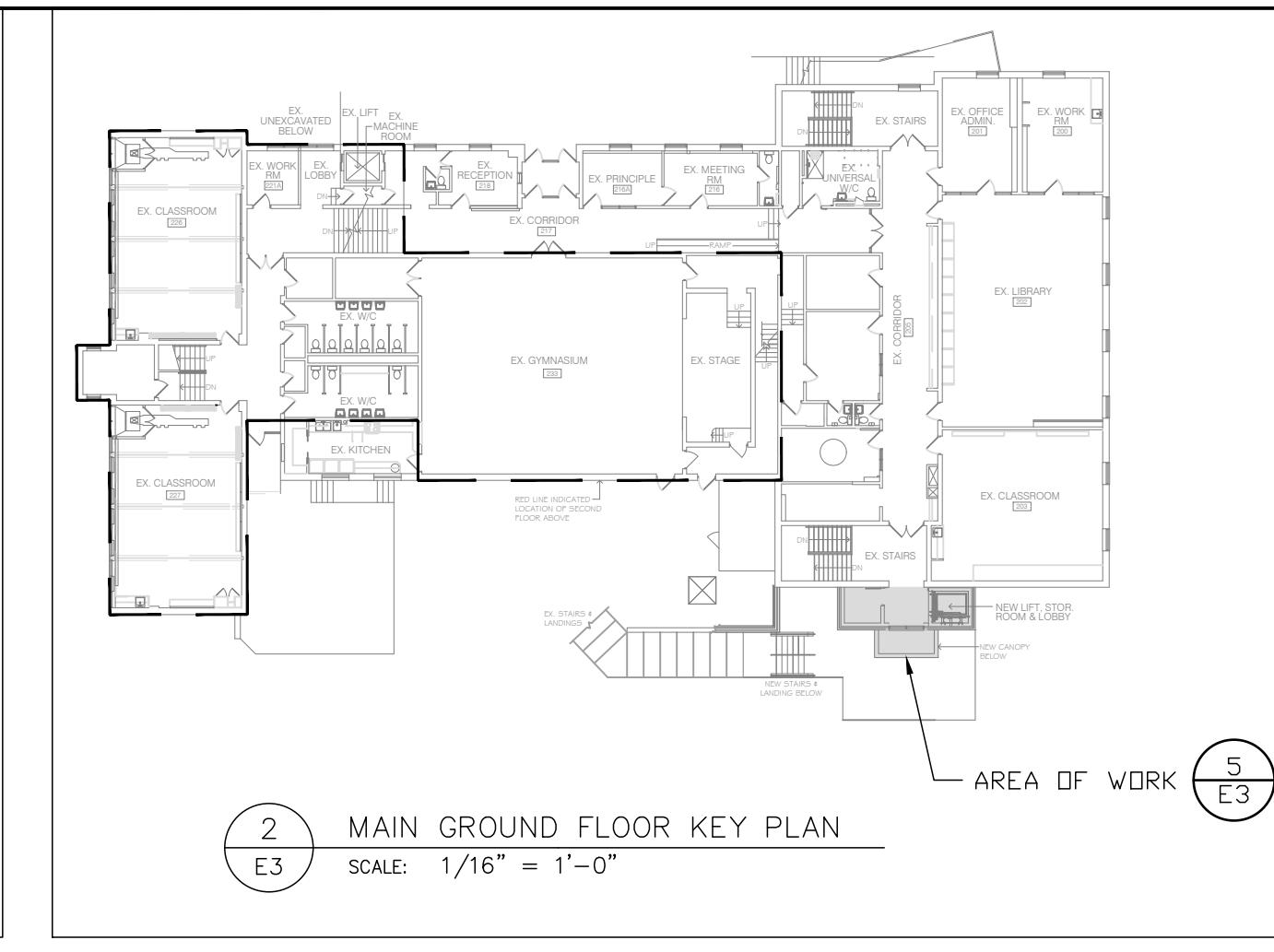
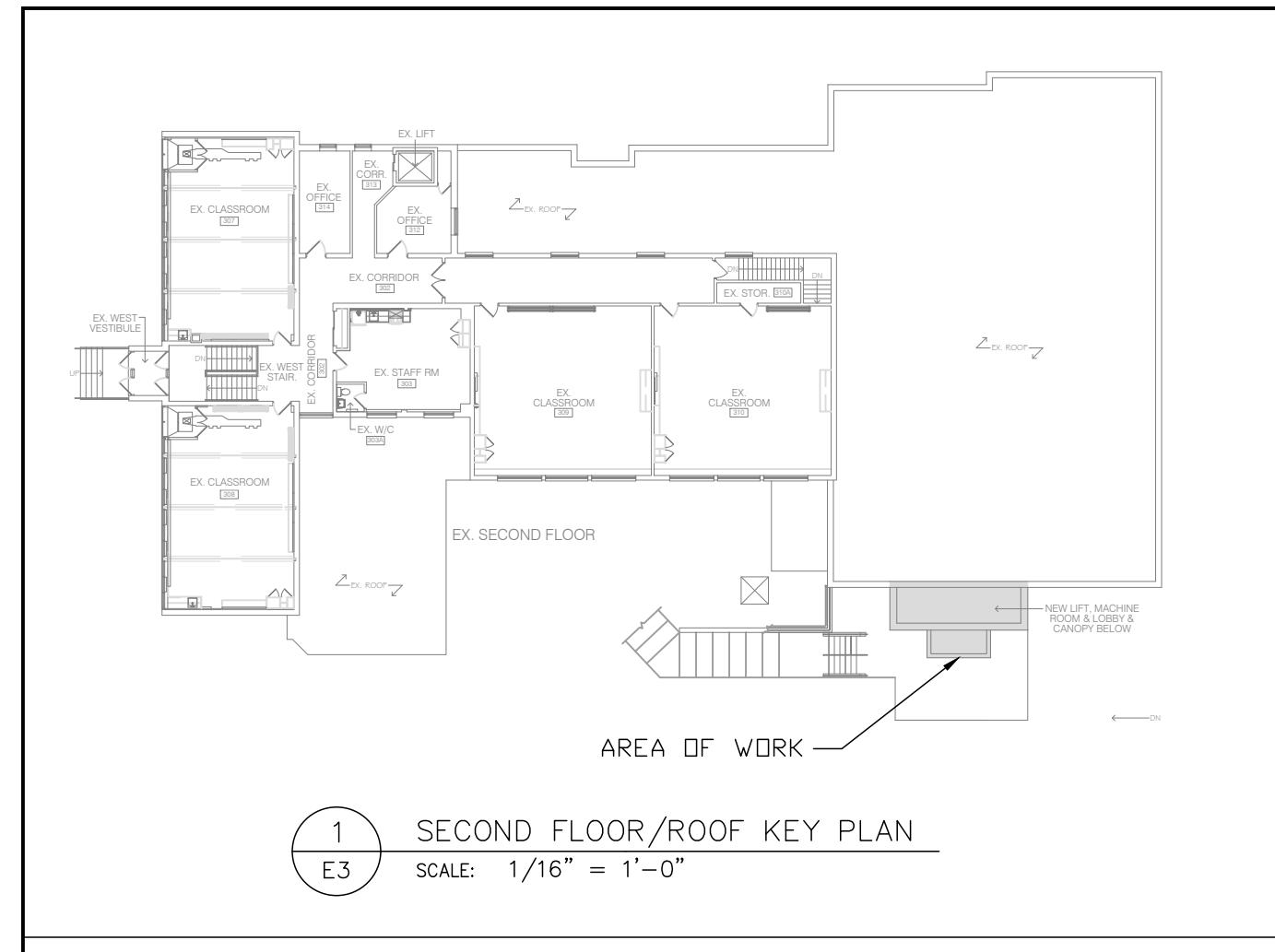
**BERTHELOT
ENGINEERING LTD**
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DW#:
CHK:
DSN:
SCALE:
AS NOTED
Feb. 5/26
P.G.P. BERTHELOT
ELECTRICAL BCIN 23396

PROJECT: RENOVATIONS TO ST. MARY CATHOLIC ELEMENTARY SCHOOL
35 Centre Street
Campbellford, Ontario

TITLE: POWER & LIGHTING LAYOUT PLAN
FILE No. 787 DWG. No. E1

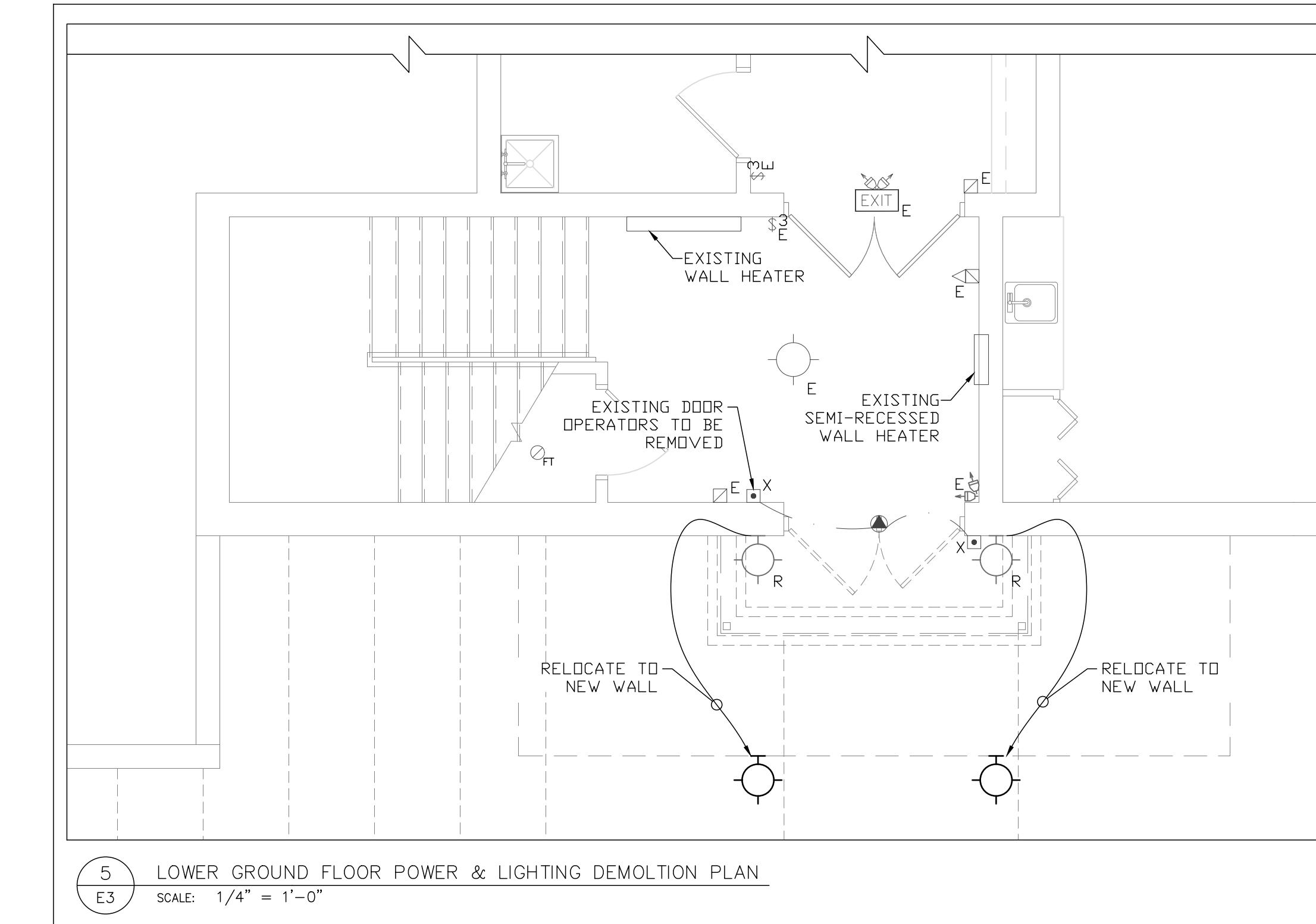
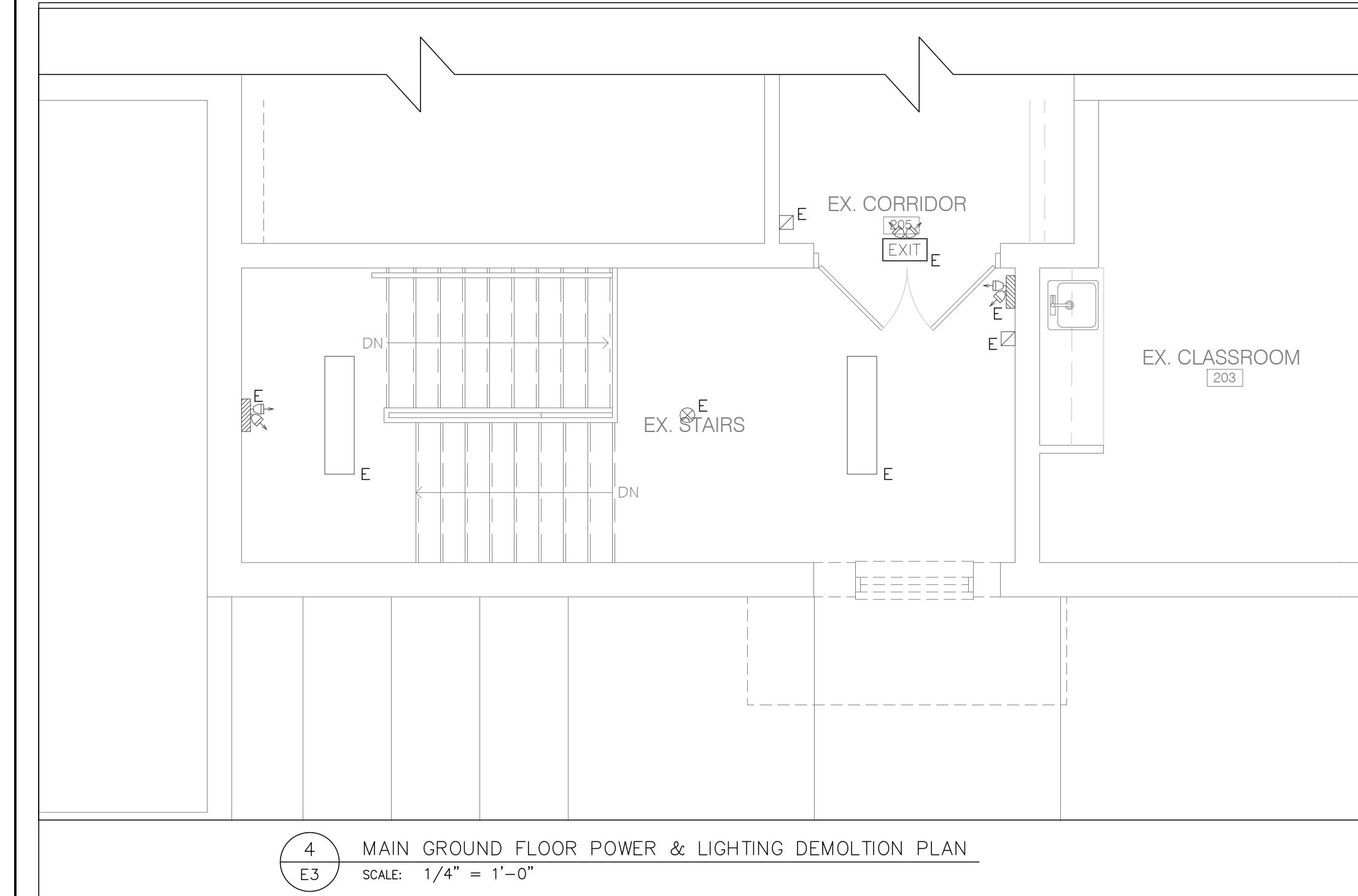
<p>Part 1 – General</p> <p>1.1. General</p> <p>1.1.1. This section covers the general requirements for the electrical work. Read all divisions of the contract documents.</p> <p>1.1.2. All equipment shall be CSA approved.</p> <p>1.1.3. All equipment, materials and installation methods shall conform to the best commercial standard practice, and in accordance with the Ontario Electrical Safety Code and all bulletins.</p> <p>1.2. Outline Scope</p> <p>1.2.1. The following major items of work shall be supplied and installed under the electrical contract:</p> <p>1.2.1.1. Provide all labour, materials, equipment and services to complete the work of the electrical division as further specified and as shown on the drawings:</p> <ul style="list-style-type: none"> a. Supply and install exit, emergency lights, fire alarm equipment and receptacles as detailed on drawings. b. Miscellaneous removals as required. <p>1.3. Contract Drawings</p> <p>1.3.1. Drawings for electrical work are performance drawings, diagrammatic, intended to convey scope of work and indicate general arrangement and approximate location of apparatus, fixtures and wiring. Drawings do not show all conduits. Those shown are diagrammatic only.</p> <p>1.3.2. Additional money over the contract price shall not be paid unless an approved change order is issued by the architect. Claims for extras shall be submitted with a complete breakdown of material, labour, hourly rates, etc.</p> <p>1.4. Shop Drawings</p> <p>1.4.1. Submit four reproducible copies of manufacturer's detailed shop drawings, which indicate clearly the materials and/or equipment actually being supplied, all details of construction, accurate dimensions, capacity, operating characteristics and performance for each piece of manufactured equipment and for items listed under each section for review.</p> <p>1.4.2. Shop drawings submitted for approval that are not stamped and signed in accordance with the preceding requirements will be returned for resubmittal.</p> <p>1.4.3. Installation of any equipment shall not commence until after shop drawings have been reviewed by the consultant.</p> <p>1.4.4. Bind one set of approved shop drawings in each operating and maintenance instruction manual.</p> <p>1.5. Co-Operation with Other Trades</p> <p>1.5.1. The contractor shall co-operate fully with other trades in such a manner as not to interfere with other work being carried out at the job site. Where other work and equipment has to be installed along with work pertaining to this division, arrange with other trades to install this work to best suit the needs for the particular condition.</p> <p>1.6. Warranty</p> <p>1.6.1. The contractor shall guarantee all work for a period of one year after the date of issue of the final certificate by the engineer and for longer periods where specified. If any defects become evident within the guarantee periods all necessary repairs and replacements to the work shall be made without cost to the owner. The contractor shall pay for making good any other work damaged through defects in the work of this section during both construction and guarantee periods.</p> <p>1.7. Insurance</p> <p>1.7.1. The contractor shall maintain all necessary insurance to protect the owner and all trades from all possible claims.</p> <p>1.8. Liability</p> <p>1.8.1. The contractor shall assume full responsibility for layout of work and for any damage caused by improper location or carrying out of work of these sections.</p> <p>1.9. Cutting and Patching</p> <p>1.9.1. The contractor shall complete all required cutting and patching to perform the work of this contract. Cuttings shall be kept to a minimum and be performed with clean cut straight edges. Patching shall be neat, clean and restore to original finish conditions using similar types of materials. Use only trades personnel skilled in the various types of work required. Cutting of structural members shall not be permitted without written approval by the owner.</p> <p>1.10. Record Drawings</p> <p>1.10.1. The contractor shall maintain accurate records of changes to the drawings on the job site. These shall include: all changes included in addenda to the tender documents; site instructions; and contract change notices. Upon project completion, the contractor shall forward to the consultant the set of drawings indicating the as-built conditions.</p> <p>1.11. Existing Conditions</p> <p>1.11.1. The contractor shall visit and examine the site and become familiar with all existing conditions affecting the work prior to submitting tender. No allowances in cost will be made by the owner for any difficulties encountered in the work arising out of conditions existing at the time of tendering.</p> <p>1.12. Product Delivery, Storage and Handling</p> <p>1.12.1. Inspect products delivered to the site and before acceptance, ensure that the product is: new; free from defects; is as specified; and is as per reviewed shop drawings, all in accordance with the contract documents. Store materials only in designated areas and protect as necessary to maintain materials in new condition.</p> <p>1.13. Instructions to Owner</p> <p>1.14.1. Instruct the owner's representative(s) in all respects of the operation and maintenance of systems and equipment. Obtain from the consultant a list of the owner's representative(s) qualified to receive instructions.</p>		<p>1.14. Clean-Up</p> <p>1.14.1. At all times keep the premises free from accumulations of waste material or rubbish caused by employees or work. At the completion of the work, remove all rubbish and all tools, equipment and surplus materials from and about the work and leave the work "broom clean" or its equivalent, unless more exactly specified. All lighting fixtures, light switches, and other operable electrical devices shall be cleaned at the completion of work.</p> <p>1.15. Codes and Standards</p> <p>1.15.1. Provide equipment and materials, and do the work, in accordance with the following, and comply with relevant sections as adopted or amended by authorities having jurisdiction:</p> <ul style="list-style-type: none"> a. Canadian electrical code (Canada) b. National Fire Protection Association c. CAN/ULC Standards d. Ontario Electrical Safety Code, including current bulletins and amendments. e. Ontario Building Code f. Worker's Compensation Board Regulations g. Governing Fire Codes in the Province Of Ontario <p>1.16. Permit, Fees and Inspection</p> <p>1.16.1. The contractor shall apply for, obtain and pay all permits, licenses, inspections, examinations and fees required. The contractor shall arrange for inspection of all work by the authorities having jurisdiction over the work. On completion of the work, present to the owner the final unconditional certificate of approval by the inspection authorities.</p> <p>1.16.2. Before starting any work, submit the required number of copies of drawings and specifications to the authorities for their approval and comments. Comply with any changes requested as part of the contract, but notify the owner immediately of such changes, for proper processing of these requirements.</p> <p>Part 2 – Basic Materials and Methods</p> <p>2.1. Conduits, Conduit Fastenings and Conduit Fittings</p> <p>2.1.1. Conduit systems shall be electrical metallic tubing, intermediate metal conduit, galvanized rigid steel conduit, or polyvinyl chloride. Minimum size shall be 1/2". Use EMT above-grade for indoor construction except where rigid conduit is required. Where galvanized rigid steel conduit is required, provide lock-nuts and bushing at terminations.</p> <p>2.1.2. Type BX -90 flexible armoured cable may be used only for final connections to lighting fixtures. Use flexible conduit for final connections to motors and sensors. Lengths should not exceed 18". Use liquid tight PVC jacketed flexible conduit for connections to equipment outdoors or in damp locations.</p> <p>2.1.3. Conduits shall be of sufficient size to permit easy removal of the conductors at any time. Use one hole steel straps to secure surface conduits 2" and smaller, and two hole steel straps for conduits larger than 2". Use beam clamps to secure conduits to expose steel work. Install fittings manufactured for use with the conduit supplied. Watertight connectors and couplings are required for EMT. Set screws are not acceptable.</p> <p>2.1.4. Install conduits to conserve headroom in exposed locations and cause minimum interference in spaces through which they pass. Conduits shall be run exposed in service areas, but shall be concealed in finished rooms. Exposed conduits shall be installed parallel and perpendicular to walls and ceilings. Wherever conduits cross building expansion joints, approved means, such as conduit expansion joints or flexible conduit loops shall be provided as necessary to take care of the movement. Conduit shall not be run horizontally in partitions.</p> <p>2.1.5. All conduits shall be properly supported with spacing not to exceed C.E.C. requirements. Approved electrical hardware, hangers, structural shapes, etc. Shall be used. Perforated strap hangers shall not be permitted. Where run exposed on concrete or masonry walls, conduits shall be supported using conduit clamps and lead anchors or approved preset concrete inserts and where run on building steel, beam clamps shall be used. Conduit clamps shall be heavy duty galvanized malleable iron. Factory "ells" shall be used where 90° bends are required for 1" or larger conduits. Make bends and offsets with a hickey or power bender without flattening or denting the conduits. Bend conduit cold. Replace conduit if kinked or flattened more than 1/10th of its original diameter. Connect conduit lengths with only approved couplings or conduit unions.</p> <p>2.1.6. Install conduits so that there is no interference with access openings in ceilings or access to equipment in the ceiling space. Install conduit to avoid proximity to water or heating pipes. Do not run within 6" of such pipes. Where crossings are unavoidable, maintain a minimum distance of 1" from the pipe covering.</p> <p>2.2. Wires and Cables</p> <p>2.2.1. All conductors shall be copper. Conductors shall be stranded for #8AWG and larger with 1000v insulation of chemically cross-linked thermo setting polyethylene. 600v insulation can be used for conductors smaller than #8AWG. Base the 600 volt RW 90 conductor ampacities on published CEC 90°C. Rating. Cables shall be loaded to not more than 75% (70% to 80%) of this rating. Minimum #12AWG wiring shall be used.</p> <p>2.2.2. Neutrals of power systems, although connected to a common ground at the source, shall be electrically separated and isolated from each other beyond this point of origination. Feeders to two or more switches or panels and the tapoffs to same shall all be run using the same size conductors throughout.</p> <p>2.2.3. All wires shall be carried full size from source to the load. Neutral wires shall be the same size as phase wires. Equipment Ground wires shall be one size smaller than phase wire, except that the conductor shall not be larger than a 4/0 and shall be no. 10 for 30 amp circuits and no. 12 for circuits less than 30 amps. Insulation shall be type RW 90. Multi-circuit branch circuits in same conduit require only one equipment ground wire.</p> <p>2.3. Junction and Pullboxes</p> <p>2.3.1. Junction and pullboxes should be of welded steel construction with screw-on flat covers for surface mounting. Install pullboxes in inconspicuous but accessible locations. Install junction and pullboxes so as not to exceed 30m of conduit run between pullboxes. All junction and pullboxes should be labelled to identify equipment or circuit numbers.</p> <p>2.4. Outlet, Conduit Boxes and Fittings</p> <p>2.4.1. Size boxes in accordance with CSA C22.1. 100 mm square or larger outlet boxes as required for special devices. Gang boxes where wiring devices are grouped. Provide blank cover plates for boxes without wiring devices. Support boxes independently of connecting conduits. Conduit boxes shall be cast FS boxes with factory threaded hubs and mounting feet for surface wiring. Provide correct size of opening in boxes for conduit and cables. Reducing washers are not allowed.</p> <p>Part 4 – Lighting Equipment</p> <p>Emergency lighting</p> <p>4.4. Install unit equipment and remote mounted fixtures as indicated.</p> <p>4.5. Emergency lighting shall be installed in such a manner that it will be automatically activated upon failure of the power supply to the normal lighting in the area covered by that unit equipment.</p> <p>4.6. Emergency lighting shall have a supply voltage of 120VAC, and an output voltage of 12VDC, and be able to assume the electrical load automatically for a minimum of 30 minutes.</p> <p>Exit signs</p> <p>4.7. Install exit signs as per the contract drawings.</p> <p>4.8. Exit signs shall consist of a green pictogram and white graphic symbol meeting the visibility specifications referred to in ISO 3864-1.</p> <p>4.9. Exit signs shall be continuously illuminated.</p> <p>PART 5 – FIRE ALARM SYSTEM</p> <p>5.1. Contractor shall provide all material, equipment, and labour as required for the complete and adequate installation of the fire alarm system, as shown on the contract drawings, and as described below. Where an existing fire alarm system is present, all new devices shall match the existing system.</p> <p>5.2. Contractor is responsible for the submittal of shop drawings for the complete system. At a minimum, the following shall be submitted:</p> <ul style="list-style-type: none"> 5.2.1. Layout of equipment; 5.2.2. Zoning; 5.2.3. Wiring diagrams for connections and devices; 5.2.4. Methods or operation; 5.2.5. Fire alarm device make, model number, and type. <p>5.3. All components of the system, its installation and the system as a whole shall be ULC listed and labeled and shall meet the requirements of all authorities having jurisdiction of the application. The entire installation shall be carried out in accordance with CAN/ ULC S524 and shall be verified in accordance with CAN/ ULC S537.</p> <p>5.4. Fire alarm control and booster panel breakers shall be of the lockable type, and shall be painted red.</p> <p>5.5. Separate circuits from the control panel to each zone of initiating devices shall be provided.</p> <p>5.6. Fire alarm system shall be single stage operation.</p> <ul style="list-style-type: none"> 5.6.1. Single stage fire alarm system shall, upon the operation of any manual pull station or fire detector, cause an alarm signal to sound on all audible signal devices in the system. <p>5.7. Fire alarm device zones to be clearly indicated on control panel.</p> <p>5.8. Arrange and pay for on-site lecture and demonstration by fire alarm equipment manufacturer to train operational personnel in use and maintenance of fire alarm system.</p> <p>5.9. All fire alarm junction boxes shall be painted red.</p> <p>5.10. All new fire alarm devices shall be compatible with existing system.</p> <p>Part 8 – Removals</p> <p>8.1. 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 <p>1 E2 SCALE: N.T.S.</p>																																																																																											
<table border="1"> <thead> <tr> <th colspan="4">FIRE ALARM SYSTEM SCHEDULE</th> </tr> <tr> <th>SYMBOL</th> <th>MODEL NUMBER</th> <th>MANUFACTURER</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>●ROR</td> <td>MATCH EXISTING</td> <td>MATCH EXISTING</td> <td>RATE OF RISE HEAT DETECTOR TO MATCH EXISTING</td> </tr> <tr> <td>●RB</td> <td>MATCH EXISTING</td> <td>MATCH EXISTING</td> <td>RATE OF RISE HEAT DETECTOR C/W RELAY BASE TO MATCH EXISTING</td> </tr> <tr> <td>●RB</td> <td>MATCH EXISTING</td> <td>MATCH EXISTING</td> <td>PHOTOELECTRIC TYPE SMOKE DETECTOR C/W RELAY BASE TO MATCH EXISTING</td> </tr> <tr> <td>■</td> <td>MATCH EXISTING</td> <td>MATCH EXISTING</td> <td>MANUAL PULL STATION TO MATCH EXISTING</td> </tr> </tbody> </table> <p>NOTES:</p> <ul style="list-style-type: none"> 1. CONNECT NEW AND RELOCATED DEVICES TO EXISTING FLOOR ZONE. 2. EXISTING DEVICES ARE NOT SHOWN, BUT SHALL REMAIN ON EXISTING ZONES. 3. INCREASE BATTERY SIZE TO ACCOMMODATE NEW STROBES. 4. FIRE ALARM PANEL IS LOCATED IN JANITOR/ELECTRICAL ROOM. 		FIRE ALARM SYSTEM SCHEDULE				SYMBOL	MODEL NUMBER	MANUFACTURER	DESCRIPTION	●ROR	MATCH EXISTING	MATCH EXISTING	RATE OF RISE HEAT DETECTOR TO MATCH EXISTING	●RB	MATCH EXISTING	MATCH EXISTING	RATE OF RISE HEAT DETECTOR C/W RELAY BASE TO MATCH EXISTING	●RB	MATCH EXISTING	MATCH EXISTING	PHOTOELECTRIC TYPE SMOKE DETECTOR C/W RELAY BASE TO MATCH EXISTING	■	MATCH EXISTING	MATCH EXISTING	MANUAL PULL STATION TO MATCH EXISTING																																																																		
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<p>BERTHELOT ENGINEERING LTD 2193 Lynhaven Rd., Peterborough, ON. K9K 1W8 Email: pberthelot@bertheloteng.com</p> <p>BERTHELOT ENGINEERING LTD 2193 Lynhaven Rd., Peterborough, ON. K9K 1W8 Email: pberthelot@bertheloteng.com</p> <p>PROJECT: RENOVATIONS TO ST. MARY CATHOLIC ELEMENTARY SCHOOL 35 Centre Street Campbellford, Ontario</p> <p>TITLE: FIRE ALARM RISER, DETAILS & SCHEDULES</p> <p>FILE No.: 787 DWG. No.: E2</p>																																																																																											



FIRE ALARM LEGEND	
<input type="checkbox"/>	PULL STATION
<input checked="" type="checkbox"/>	SMOKE DETECTOR
<input type="checkbox"/>	DOOR HOLD OPEN
<input type="checkbox"/>	FIXED TEMPERATURE HEAT DETECTOR
<input checked="" type="checkbox"/>	EXISTING EQUIPMENT TO REMAIN
<input type="checkbox"/>	EXISTING EQUIPMENT TO BE RELOCATED
<input checked="" type="checkbox"/>	EXISTING EQUIPMENT TO BE REMOVED
<input type="checkbox"/>	EXISTING EQUIPMENT TO BE REMOVED

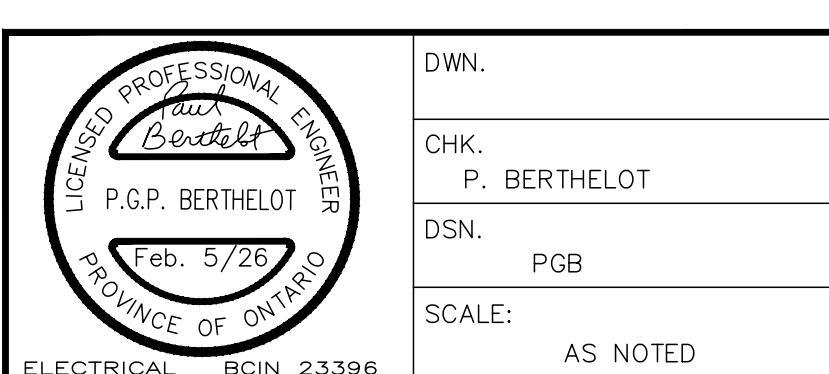
EMERGENCY LIGHTING LEGEND	
<input type="checkbox"/>	EMERGENCY LIGHT BATTERY PACK
<input checked="" type="checkbox"/>	EMERGENCY LIGHT
<input type="checkbox"/>	EXIT SIGN
<input checked="" type="checkbox"/>	EXISTING EQUIPMENT TO REMAIN
<input type="checkbox"/>	EXISTING EQUIPMENT TO BE RELOCATED
<input checked="" type="checkbox"/>	EXISTING EQUIPMENT TO BE REMOVED

NOTE: EXISTING ELECTRICAL EQUIPMENT AND LIGHTING TO REMAIN, EXCEPT AS NOTED. DISCONNECT DEVICES SCHEDULED FOR REMOVAL OR RELOCATION. REMOVE EXISTING WIRING AND CONDUIT BACK TO SOURCE, WHERE PRACTICAL, AND MAKE SAFE.



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0	26/02/05	ISSUED FOR PERMIT & TENDER	PGB	-
Rev.	Date	Description	By	App.

**BERTHELOT
ENGINEERING LTD**
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PROJECT: RENOVATIONS TO ST. MARY CATHOLIC ELEMENTARY SCHOOL
35 Centre Street
Campbellford, Ontario
TITLE: POWER & LIGHTING DEMOLITION LAYOUT PLAN
FILE No. DWG. No.
787 E3