## PRIVATE BLAKE WILLIAMSON MEMORIAL HALL CHANGE OF USE

### **GENERAL SPECIFICATION**

OWNER

HEREAFTER, "THE MUNICIPALITY OF NORTH GRENVILLE," "NORTH GRENVILLE," "NG," "NG REPRESENTATIVE," AND "OWNER" SHALL BE SYNONYMOUS AND HAVE THE SAME AFFECT AS IF PRINTED IN FULL.

HEREAFTER, "DDDG ENGINEERING SERVICES," "DDDG," "ENGINEER," AND "DESIGNER" SHALL BE SYNONYMOUS AND HAVE THE SAME AFFECT AS IF PRINTED IN FULL.

HEREAFTER, "GRAFF ARCHITECTURE," "GORDON GRAFF," AND "ARCHITECT" SHALL BE SYNONYMOUS AND HAVE THE SAME AFFECT AS IF PRINTED IN FULL.

EACH CONTRACTOR IS TO BE AN EXPERT IN HIS TRADE.

THE CONTRACTOR SHALL INSPECT THE PROJECT PRIOR TO TENDER TO REALIZE THE SCOPE OF WORK INVOLVED AND TO FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FIELD DATA INCLUDING MEASUREMENT, DRAWINGS, ORIENTATION, LOCATION AND SPECIFICATION. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY IN THIS REGARD. NOTIFY AND RECEIVE APPROVAL FROM THE UCLG REPRESENTATIVE, AND ENGINEER OF ANY DISCREPANCY BEFORE COMMENCING WORK.

### THE CONTRACTOR IS EXPECTED TO SEEK, BEFORE SUBMITTING BID, CLARIFICATIONS OF ANY ASPECT OF THE DRAWINGS THAT MAY OTHERWISE LEAD TO EXTRA COSTS. ANY CHALLENGE TO THE DRAWINGS BY THE CONTRACTOR POST-BID WILL BE REJECTED. THE ENGINEER WILL HAVE FINAL DETERMINATION.

ALL INQUIRIES AND/OR REQUESTS ARE TO BE SENT DIRECTLY TO THE OWNER.

OBEY ONLY WRITTEN INSTRUCTIONS BY OWNER OR ENGINEER

REFER TO ARCHITECTURAL SPECIFICATIONS, GENERAL CONDITIONS, TENDER FORMS, SCHEDULE OF COMPLETION, DRAWINGS

AND SPECIFICATIONS OF OTHER TRADES, ETC. NO EXTRA WORK WILL BE AWARDED WITHOUT FIRST SUBMITTING A DETAILED BREAKDOWN OF PROPOSED WORK COMPLETE WITH FIRM DOLLAR QUOTE. NO EXTRA WORK IS TO BE CARRIED OUT WITHOUT RECEIVING SIGNED APPROVAL FROM THE

NO SUBSTITUTIONS ARE TO BE MADE FOR ANY MECHANICAL/ELECTRICAL/PLUMBING/FIRE SAFETY MATERIALS OR EQUIPMENT DESCRIBED IN THE CONSTRUCTION DOCUMENTS WITHOUT FIRST PROVIDING SHOP DRAWINGS FOR REVIEW, AND A FIRM QUOTE DETAILING THE CHANGE IN MATERIAL AND INSTALLATION COST INCLUDING ORIGINAL BID PRICE. NO SUBSTITUTIONS ARE TO BE INSTALLED WITHOUT SIGNED APPROVAL FROM THE OWNER AND ENGINEER

ARCHITECTURAL FINISH/MATERIAL/PRODUCT/COLOUR APPROVALS MAY ONLY BE PROVIDED BY THE OWNER.

CONFER WITH ALL TRADES INSTALLING EQUIPMENT, AND ARRANGE THE WORK IN PROPER RELATION TO EQUIPMENT INSTALLED UNDER ALL DIVISIONS OF THE CONTRACT. THE TRADES ARE TO COORDINATE ON THE LOCATION OF EQUIPMENT AND FIXTURES BEFORE INSTALLATION. NO EXTRA WILL BE ALLOWED FOR LACK OF TRADES COORDINATION.

CONTRACTOR SHALL FURNISH ALL LABOUR. TOOLS. MATERIALS, OPERATIONS AND METHODS LISTED (EXCEPT AS NOTED OTHERWISE IN THIS DOCUMENT) TO ACCOMPLISH THE WORK AS OUTLINED IN THIS DOCUMENT

THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS TO COMPLETE THE SCOPE OF WORK OUTLINED IN THE CONSTRUCTION DRAWINGS.

ALL EXCAVATING AND BACKFILLING IS THE RESPONSIBILITY OF THE TRADE TO WHICH THE WORK IS RELATED. THE EXCAVATING AND BACKFILLING OPERATIONS ARE TO BE CARRIED OUT BY TRADES PEOPLE QUALIFIED FOR THIS TYPE OF WORK.

THE INSTALLATIONS GOVERNED BY THIS DOCUMENT SHALL BE COMPLETE IN EVERY RESPECT.

IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT THE CONTRACTOR PROVIDE COMPLETE AND OPERATIONAL SYSTEMS AS REQUIRED. ANY MISCELLANEOUS ITEMS, HARDWARE, DEVICES, WIRING, ETC., NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR THE OPERATION OF THE SYSTEM. MUST BE PROVIDED AND INCLUDED AS PART OF THE BID.

USE ONLY NEW MATERIAL AND EQUIPMENT.

ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT ONTARIO BUILDING CODE, MUNICIPAL BY-LAWS, AND WITH THE APPROVAL OF THE AUTHORITIES HAVING JURISDICTION.

INSTALLATION OF ALL EQUIPMENT, DUCTWORK, PLUMBING, ETC. IS TO BE FINISHED/CONCEALED IN A SUITABLE MANNER TO PROTECT FROM DAMAGE AND/OR VANDALISM. AND IN ORDER TO BE AESTHETICALLY PLEASING.

ALL CONCEALED EQUIPMENT, VALVES, ETC. TO BE PROVIDED WITH ACCESS HATCHES FOR USE, INSPECTION, AND MAINTENANCE OF EQUIPMENT.

WOOD FRAME SPECIFICATION:

ALL FRAMING TO COMPLY WITH THE ONTARIO BUILDING CODE PART 9.23

ALL EXISTING CUT/DRILLED/NOTCHED JOISTS TO BE REINSTATED BY SECURING NEW EQUALLY-SIZED PLANKS TO THE SIDES OF HE JOIST EXTENDING MIN 48" BEYOND C T/DRILL/NOTCH OR TO THE NEAREST POINT OF BEARIN

NEW PLANKS TO REINSTATE DAMAGED JOISTS SHALL BE SECURED TO EXISTING JOISTS BY A DOUBLE ROW OF 3.5" NAILS @ 16" o/c. WITH END NAILS LOCATED 4-6" FROM BOTH ENDS OF THE NEW PLANK.

ALL JOISTS TO BE PROVIDED WITH 1x3 STRAPPING @ 16" o/c.

DOUBLE TOP PLATES OR FIRE BLOCKS ARE TO BE PROVIDED AT ALL FLOOR/WALL JUNCTIONS.

### **EXTERIOR SPECIFICATION:**

EXTERIOR BRICKWORK IS TO BE COMPLETED IN ACCORDANCE WITH OBC 9.20.

CONTRACTOR TO PROVIDE BRICK AND MORTAR SAMPLES INCLUDING A 36" x 36" MOCK-UP LEFT TO CURE MINIMUM 48 HOURS FOR APPROVAL PRIOR TO ORDERING MATERIALS.

EXTERIOR FINISHES ARE TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS INCLUDING RELEVANT FLASHING DETAILS. ALL PAVING AND GRADING TO SLOPE MIN. 2% AWAY FROM STRUCTURE

COMPRESSIVE STRENGTH OF WALKWAY CONCRETE TO BE NOT LESS THAN 32 MPA AFTER 28 DAYS.

EXTERIOR CONCRETE WALKS TO HAVE AIR ENTRAINMENT OF 5-8%.

CONTROL JOINTS IN CONCRETE WALKWAY TO BE 4" DEEP C/W ASPHALT EXPANSION JOINT MATERIAL.

ALL CONCRETE WORK TO COMPLY WITH PART 9.3 OF THE ONTARIO BUILDING CODE

### FIRE ESCAPE

ALL FIRE ESCAPE COMPONENTS ARE TO CONFORM TO OBC 3.4.7. "FIRE ESCAPES"

ALL FINISHED FIRE ESCAPE COMPONENTS ARE TO BE PAINTED WITH MATTE BLACK RUST INHIBITING PAINT.

CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR PROPOSED FIRE ESCAPE INCLUDING ANCHORAGE TO EXISTING BUILDING AND ANY REQUIRED SUPPORT STRUCTURES SUCH AS PIERS OR OTHER FOUNDATIONS.

### ROOF SPECIFICATION:

THE ROOF IS TO REMAIN AS-IS UNLESS INSTRUCTED OTHERWISE BY THE OWNER.

CONTRACTOR TO PROVIDE AN ADDITIONAL COST TO PROVIDE THE FOLLOWING ROOF:

THE EXISTING ROOFING SYSTEM INCLUDING ENTRANCE CANOPY IS TO BE REMOVED UNTIL SUITABLE SUBSTRATE IS AND FREE OF REMNANT MATERIALS INCLUDING BUT NOT LIMITED TO ANY FLASHINGS, STRAPPING, FELTS, TAR PAPE PROTRUDING NAILS AND SCREWS

THE ROOF IS TO BE FINISHED WITH A SHEET STEEL ROOFING SYSTEM.

METAL ROOFING PANELS TO BE IDEAL ROOFING "HERITAGE SERIES" 16-INCHES IN WIDTH.

COLOUR TO BE MIDNIGHT BLACK OR EQUIVALENT.

ROOF SNOW GUARDS TO BE IDEAL ROOFING "IDEAL GUARD" SNOW GUARD. COLOUR TO MATCH ROOF PANELS.

ALL SOFFITS, FASCIA, EAVESTROUGH, AND DOWNSPOUTS TO BE NEW. THE CONTRACTOR IS TO PROVIDE SHOP DRAWINGS OF ALL ROOFING MATERIALS, FLASHINGS, AND ACCESSORIES I APPROVAL PRIOR TO ORDERING.

WORK UNDER THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY LABOUR, MATERIAL, TRANSPORTATION AND SA EQUIPMENT REQUIRED TO COMPLETE THE ABOVE IN ACCORDANCE WITH TERMS AND CONDITIONS CONTAINED HER WORK COVERED BY THIS SECTION INCLUDES THE REMOVAL AND DISPOSAL OF ALL EXISTING ROOFING MATERIALS. WATER SHIELDS, FLASHING, ETC. OFF-SITE; AND THE SUPPLY AND INSTALLATION OF ALL STEEL ROOF AND MEMBRA

MATERIALS AS SPECIFIED AND DETAILED. ALL ROOF WORK IS TO BE COMPLETED DURING FAIR WEATHER, AND DURING TEMPERATURES OF 5°C OR WARMER. A SURFACES ARE TO BE COMPLETELY DRY THROUGHOUT WHEN INSTALLING NEW ROOF COMPONENTS.

DELIVER ALL MATERIALS IN ORIGINAL BUNDLES, PACKAGES AND CONTAINERS. TAKE PARTICULAR CARE THAT MATER CAREFULLY HANDLED TO PREVENT DAMAGE TO NEW AND EXISTING WORK.

PROVIDE ALL MANUFACTURERS' WARRANTIES AND FOLLOW THE REQUIREMENTS OF THOSE WARRANTIES TO ENSUI WARRANTIES ARE NOT VOIDED.

THE CONTRACTOR IS TO PROVIDE A TWO-YEAR INSTALLATION AND WATER-TIGHTNESS WARRANTY WHICH COMMEN DAY OF SUBSTANTIAL COMPLETION.

THE OWNER OR DESIGNATE, MUST INSPECT THE EXPOSED ROOF SHEATHING BEFORE COVERING OVER WITH NEW R MATERIALS.

ENSURE EXISTING ROOF SHEATHING IS IN GOOD CONDITION AND ADEQUATELY SECURED.

ANY DAMAGED ROOF SHEATHING IS TO BE IDENTIFIED TO THE OWNER AND A SEPARATE PRICE TO REPLACE WILL BE AND CONSIDERED AS AN EXTRA AND NOT PART OF THE SCOPE OF THIS TENDER.

REPLACE ALL FLASHING, INCLUDING STEP FLASHING, COUNTER FLASHING, CAP FLASHING, VALLEY FLASHING, RIDGE ROOF VENTS, GOOSE NECK VENTS, ROUND STACK BOOTS, FLASHING AT FIRE SEPARATIONS.

INSTALL NEW DRIP EDGE ALONG EAVES AND GABLES ON ALL ROOF AREAS.

REPLACE ANY DETERIORATED OR DISCOLORED FASCIA BOARDS AS REQUIRED.

QUANTITIES PROVIDED ARE FOR CONTRACTOR INFORMATION ONLY. SUCCESSFUL CONTRACTOR IS TO CONFIRM AI

DIMENSIONS AND QUANTITIES.

SAFETY EQUIPMENT TO BE USED AT ALL TIMES.

UPON COMPLETION OF THE ROOF INSTALL, ALL CUTTINGS, DRILLINGS AND DEBRIS IS TO BE REMOVED FROM FINISHE EAVES TROUGHS ARE TO BE CLEARED OF ANY DEBRIS. ANY RESIDUAL CAULKING OR ADHESIVE TO BE REMOVED AN BE SWEPT OR WIPED CLEAN.

SWEEP ALL GROUND AREA AROUND THE BUILDING WITH MAGNET TO REMOVE NAILS AND CUTTINGS. CLEAR AWAY, OF ALL DEBRIS.

SOFFITS AND FASCIA

SOFFITS ARE TO BE VENTED ALUMINUM.

FASCIA TO BE CONTINUOUS ALUMINUM

COLOUR OF SOFFITS AND FASCIA TO BE DETERMINED.

SEAMLESS ALUMINUM EAVES TROUGH:

SUPPLY AND INSTALL 5 INCH SEAMLESS EAVESTROUGH AND 3"X3" DOWNSPOUTS .

EAVESTROUGHS TO HAVE MIN. 1/4-INCH SLOPE PER 10FT LENGTH.

HANGERS TO BE PLACED AT 12 INCH CENTERS. ALL OUTLETS AND ELBOWS TO BE SECURED WITH SCREWS. COLOUR TO MATCH SOFFITS AND FASCIA.

INSTALLATION OF STEEL ROOF

SUPPLY AND INSTALL HIGH-TEMPERATURE ICE AND WATER SHIELD OVER THE ENTIRE ROOF FOLLOWING MANUFACTURER'S INSTRUCTIONS, INCLUDING ANY ADDITIONAL PRIMING OR NAILING AS MAY BE REQUIRED.

SUPPLY AND INSTALL 1" X 4" LUMBER STRAPPING ON ALL OUTSIDE ROOF EDGES AND HORIZONTALLY ON 2' CENTER'S, AND SCREWED TO ROOF TRUSSES USING WOOD SCREWS, ENSURE ALL STRAPPING IS LEVEL AND SHIM AS REQUIRED FINISHED ROOF HAS NO UNDULATIONS OR WARPING (OIL CANNING). PLACE DOUBLE STRAPPING AT 24" DIMENSI EDGE TO ACCOMMODATE SNOW GUARDS.

ENSURE THAT THE ROOF IS SQUARE PRIOR TO INSTALLING NEW STEEL.

### STEEL ROOF CLADDING:

PROVIDE COMPONENTS APPROVED BY ROOF PANEL MANUFACTURER AND AS REQUIRED FOR A COMPLETE METAL R ASSEMBLY INCLUDING TRIM, COPINGS, FASCIAE, CORNER UNITS, HEAD CLOSURES, CLEATS, FLASHINGS, SEALANTS, GASKETS, FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS.

ROOF TRIMS AND ACCESSORIES TO BE THE SAME MATERIAL AND COLOR AS THE STEEL CLADDING.

ICE AND WATER SHIELD HIGH TEMP, PEEL AND STICK, MIN 0.4 mil. ACCEPTABLE PRODUCTS: GRACE ICE AND WATER SHIELD HT OR APPROVED EQUAL.

STACK/VENT BOOT TO BE ROUND, PER MANUFACTURERS' RECOMMENDATION, COLOUR TO BE BLACK.

SUPPLY AND INSTALL CLOSURE STRIPS PROVIDED BY ROOFING MANUFACTURER AND INSTALLED AT HEAD, SILL, AND WHEREVER NECESSARY TO ENSURE A WEATHER-TIGHT INSTALLATION.



	INTERIOR SPECIFICATION:				
	WALLS			BASEMENT 00	-
	ALL GYPSUM WALLS ARE TO BE TAPED, MUDDED, AND SANDED.				UP
E IS EXPOSED	METAL CORNER BEADS ARE TO BE INSTALLED AT ALL EXTERIOR ANGLES.				
APER,	ALL WALLS ARE TO BE THOROUGHLY CLEANED, DUST-FREE, AND DRY BEFORE APPLYING PAINT OR PRIMER.				
	PROTECT ALL BUILDING EQUIPMENT AND ADJACENT FINISHES FROM PAINT. ANY UNINTENTIONALLY PAINTED ITEMS ARE TO BE CLEANED TO OWNER'S SATISFACTION, OR REPLACED AT CONTRACTOR'S EXPENSE.				
	FOLLOW MANUFACTURER'S INSTRUCTIONS FOR PREPARATION, APPLICATION, CURING, TEMPERATURE AND HUMIDITY LIMITS, AND ANY OTHER ASPECT THAT MAY AFFECT THE QUALITY OF THE END-PRODUCT.				
	ALL WALLS TO BE PRIMED BEFORE PAINTING WITH ONE (1) COAT BENJAMIN MOORE FRESH START HIGH-HIDING ALL PURPOSE PRIMER.				
	WALLS TO BE FINISHED WITH TWO (2) COATS OF BENJAMIN MOORE EGGSHELL SCUFF-X UNLESS NOTED OTHERWISE.				
ES FOR	COLOUR TO BE DETERMINED BY OWNER.				
) SAFETY	CEILINGS TO BE FINISHED WITH TWO (2) COATS OF BENJAMIN MOORE WATERBORNE CEILING PAINT ULTRA FLAT.				
IEREIN.	FLOORS				
LS, FELTS, ICE & BRANE	EXISTING CONCRETE FLOORS IN THE ELECTRICAL ROOM, VESTIBULE, AND ASSEMBLY ROOM ARE TO BE LEVELED, POLISHED, AND SEALED UNLESS OTHERWISE INSTRUCTED BY THE OWNER.				
ER. ALL	UTILITY ROOM FLOORING IS TO BE AMERICAN BILTRITE MIRRA LVT "SMOKED ASH GREY" MSA-001 3mm THICKNESS WITH A 0.7mm WEAR LAYER, 7" x 48"				
ATERIALS ARE	CONTRACTOR TO PROVIDE ADDITIONAL COST TO PROVIDE THE FOLLOWING FLOORING IN THE VESTIBULE AND ASSEMBLY ROOM: MONDO RAMFLEX 6mm PREFABRICATED INDOOR SPORT FLOORING, COLOUR TO BE DETERMINED BY OWNER. MATERIAL IS TO BE TRANSPORTED, STORED, AND INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR COST TO INCLUDE ANY AND ALL SURFACE PREPARATION AND UNDERLAYMENT THAT MAY BE NECESSARY FOR A PROPER INSTALLATION INCLUDING THE REMEDIATION OF ANY IRREGULARITIES IN THE EXISTING CONCRETE FLOORING.				
MENCES ON THE	ALL PRODUCTS TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.				
	APPROPRIATE TRANSITION STRIPS ARE TO BE PROVIDED AT ALL CHANGES IN FLOORING MATERIAL.		MENT PLAN		
EW ROOFING	FLOOR DEMOLITION AND REINSTATEMENT IS REQUIRED WHERE NEW PLUMBING IS TO BE RUN FOR NEW BARRIER-FREE WASHROOM. FLOORS ARE TO BE SAW-CUT, AND RUBBLE REMOVED FROM SITE. BACK-FILL WITH CLEAN SAND AROUND ALL PIPING BEFORE POURING NEW CONCRETE OF EQUAL THICKNESS TO ORIGINAL.	A1 SCALE:	1/8" = 1'-0"		
L BE REQUIRED	NEW BARRIER-FREE FLOOR FINISH TO MATCH EXISTING WASHROOMS INCLUDING BASE WALL TRIM.	ធ	WALL TYPE W1		WALL TYPE W2
	DOORS		FRR: n/a		FRR: n/a
DGE CAPS,	UNLESS PAINTED BY THE MANUFACTURER, INTERIOR STEEL DOORS AND FRAMES ARE TO BE PRIMED WITH ONE (1) COAT BENJAMIN MOORE ADVANCE PRIMER AND TWO (2) COATS BENJAMIN MOORE ADVANCE MATTE INTERIOR PAINT.		STC: n/a		STC: n/a
	COLOUR TO BE DETERMINED BY OWNER.		2x4 STUDS @ 16" o/c 1/2" GYPSUM BOARD		STUDS @ 16" o/c SIZEE c/w ROCKWOOL
M ALL	ALL LOCKABLE DOORS ARE TO BE COMPATIBLE WITH NG EXISTING KEY SYSTEM. COORDINATE WITH NG REPRESENTATIVE FOR DETAILS.				EXISTING ROOM FINISH
	BATHROOM ACCESSORIES				
IISHED ROOF.	ALL BATHROOM ACCESSORIES, INCLUDING TOILET PAPER HOLDERS, VANITY CABINETS WITH MIRROR, TOWEL RACKS, ETC. TO BE INCLUDED. SEE SHEET P1.				
AND ROOF TO	ALL BATHROOM ACCESSORIES ARE TO BE PROVIDED WITH PLYWOOD BACKING.			C	
AY AND DISPOSE	ADDITIONAL DEMOLITION/REMOVAL				
	THE FOLLOWING ADDITIONAL ITEMS ARE TO BE REMOVED FROM SITE AND DISPOSED OF APPROPRIATELY BY THE CONTRACTOR: A. HVAC UNIT AND ASSOCIATED SHELF IN THE ASSEMBLY ROOM				
	ANY DAMAGE CAUSED OR OPENINGS CREATED BY THE DEMOLITION/REMOVAL OF THE ITEMS ABOVE IS TO BE REPAIRED OR			FLOOR TYPE	F1 (SB-3 F9d)

ANY DAMAGE CAUSED OR OPENINGS CREATED BY THE DEMOLITION/REMOVAL OF THE ITEMS ABOVE IS TO BE REPAIRED OR MADE WHOLE AGAIN BY THE CONTRACTOR.

ED TO ENSURE	
ION FROM ROOF	

NEW STEEL TO BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS USING ALL RECOMMENDED TRIM, ROUND STACK BOOTS, FLASHINGS, GASKETS, SEALS, ADHESIVES AND FASTENERS.			SHEET LIST
ROOF PANELS ARE TO BE CONTINUOUS FROM RIDGE TO EAVE.	SHEET	REV	TITLE
ROOF STEEL TO BE LAID AGAINST PREVAILING WIND.	A1	С	SPECIFICATION / SCHEDULES / BASEMENT PLAN
	A2	С	GROUND FLOOR PLAN
INSTALL TO INCLUDE THE INSTALLATION OF LOW PROFILE RIDGE VENT, 4" DRIP EDGE, FLASHING AND TRIM.	A3	С	SECOND FLOOR PLAN
ENSURE THAT ROOF SHEATHING IS CUT BACK TO ALLOW ADEQUATE AIRFLOW THROUGH RIDGE VENT.	A4	C	NORTH / SOUTH ELEVATIONS
	A5	С	EAST / WEST ELEVATIONS
INSTALL SNOW GUARDS ON THE FINISHED ROOF SLOPES FOR ENTIRE BUILDING. ROOF GUARDS TO BE 3" HEIGHT 29 GAUGE,	M1	С	SPECIFICATIONS / BASEMENT MECHANICAL PLAN
COLOR MATCHED TO ROOF STEEL. PROVIDE LUMBER STRAPPING UNDER NEW STEEL TO ACCEPT GUARD MOUNTS.	M2	С	GROUND FLOOR MECHANICAL PLAN
STEEL ROOF CLADDING:	M3	С	SECOND FLOOR MECHANICAL PLAN
	E1	С	SPECIFICATIONS / BASEMENT ELECTRICAL PLAN
EXTERIOR ROOF CLADDING: FACTORY PREFORMED, "PERSPECTRA PLUS" PAINTED GALVANIZED STEEL, 29 GAUGE THICKNESS	E2	С	GROUND FLOOR ELECTRICAL PLAN
c/w 40-YEAR MANUFACTURER'S WARRANTY.	E3	С	SECOND FLOOR ELECTRICAL PLAN
FASTENERS ARE TO BE #10x2" CORROSION-RESISTANT HEX WASHER HEAD SCREWS c/w NEOPRENE SEALING WASHER AND	P1	С	SPECIFICATIONS / BASEMENT PLUMBING PLAN
PRE-PAINTED TO MATCH PANELS.	P2	C	GROUND FLOOR PLUMBING PLAN
PROVIDE COMPONENTS APPROVED BY ROOF PANEL MANUFACTURER AND AS REQUIRED FOR A COMPLETE METAL ROOF PANEL			

				DOORS									
DOOR NO.	ROOM NO.	DOOR SIZE	TYPE	MATERIAL	FINISH	GLAZING							
001	27	38 x 80	3	INSULATED STEEL	PAINTED BLACK	TEMPERED							
002	26	42 x 80	1	STEEL	PAINTED BLACK	n/a							
003	11	36 x 80	5	STEEL	SEE REMARKS	TEMPERED							
004	14	32 x 80	n/a	EXISTING	EXISTING	n/a							
005	29	36 x 80	1	STEEL	PAINTED BLACK	n/a							
006	00	CUSTOM 31.5 x 76	1	STEEL	PAINTED WHITE	n/a							
007	10	38 x 80	3	INSULATED STEEL	PAINTED BLACK	WIRED							
008	28	42 x 80	1	STEEL	PAINTED	n/a							
009	22	36 x 80	3	INSULATED STEEL	PAINTED BLACK	WIRED							
				DOOR TYPES									
TYPE "1"	TYPE "2"	TYPE "3"	TYPE "4"	TYPE "5"	TYPE "6"	TYPE "7"							
TYPE "10"	TYPE	E "11"	יד	(PE "12"	TYPE "13"	TYPE "14"							
• •	6 0 0												

ASSEMBLIES

WINDOW NO.

ROOM NO.

27

A1 / SCALE: NTS

LVT FLOORING c/w UNDERLAYMENT

MINERAL WOOL BATT INSULATION

2x4 CEILING JOISTS @ 24" o/c\*

RESILIENT CHANNEL @ 24" o/c

5/8" TYPE-X GYPSUM BOARD

5/8" TYPE-X GYPSUM BOARD

NOM. HEIGHT

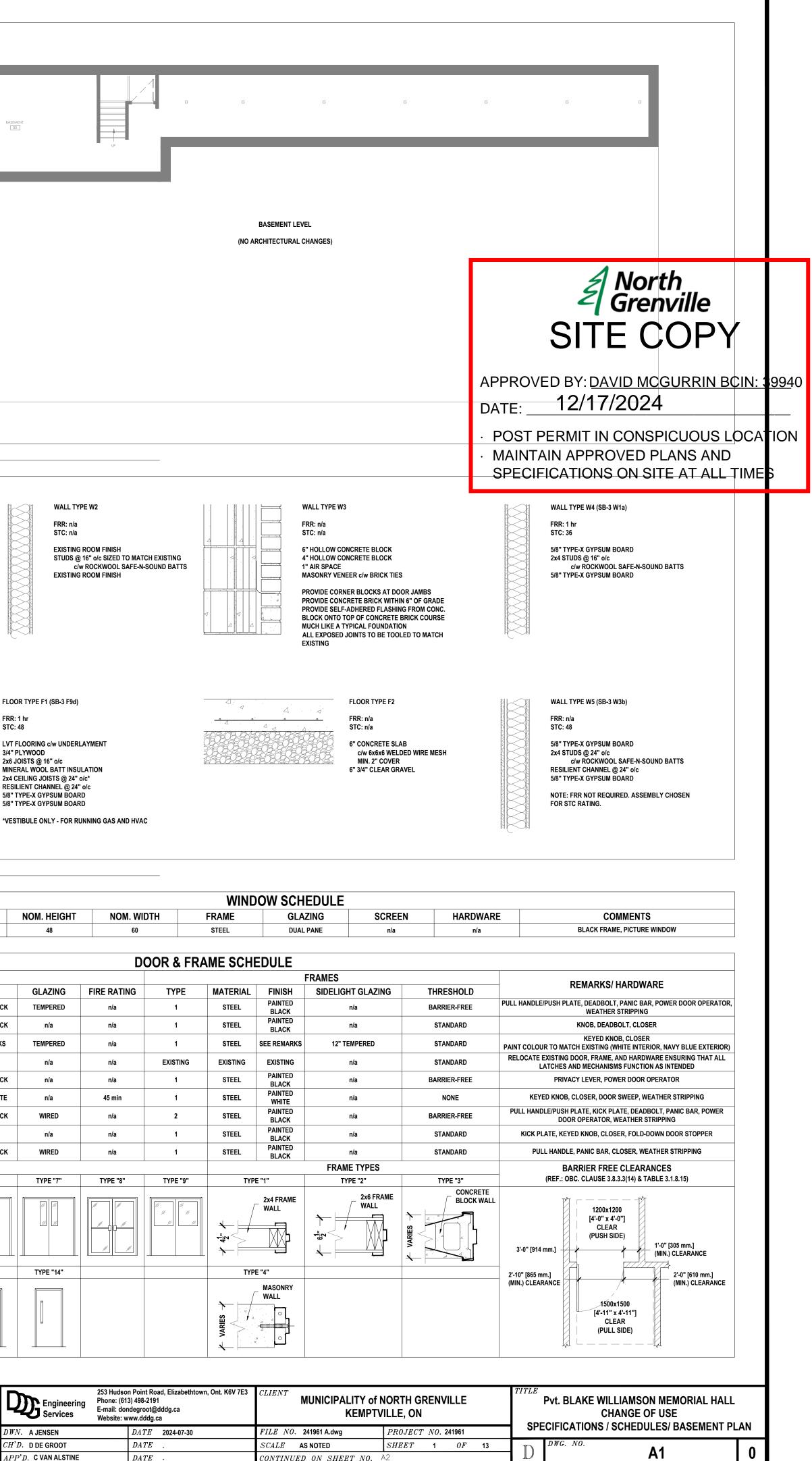
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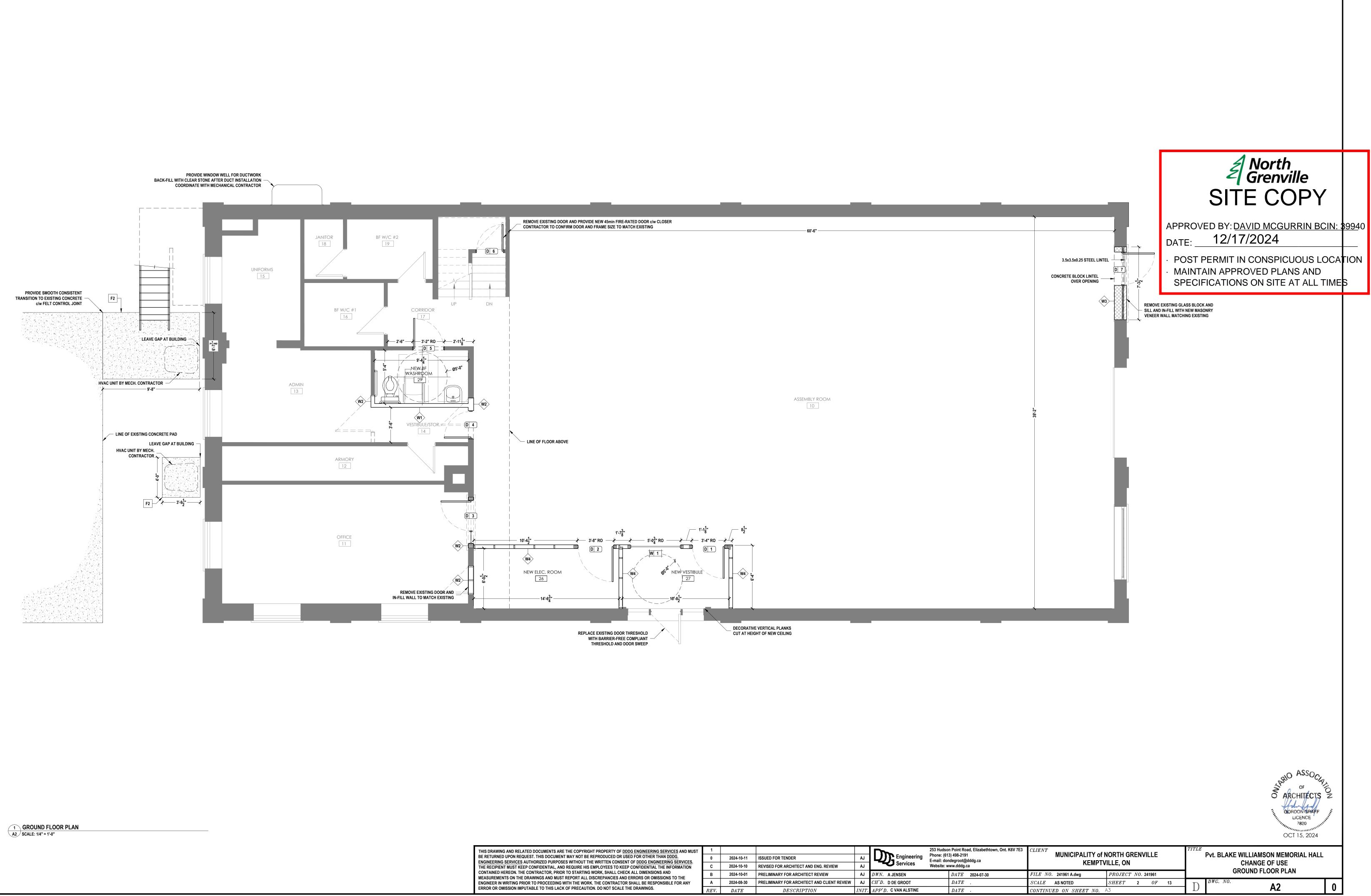
3/4" PLYWOOD

2x6 JOISTS @ 16" o/c

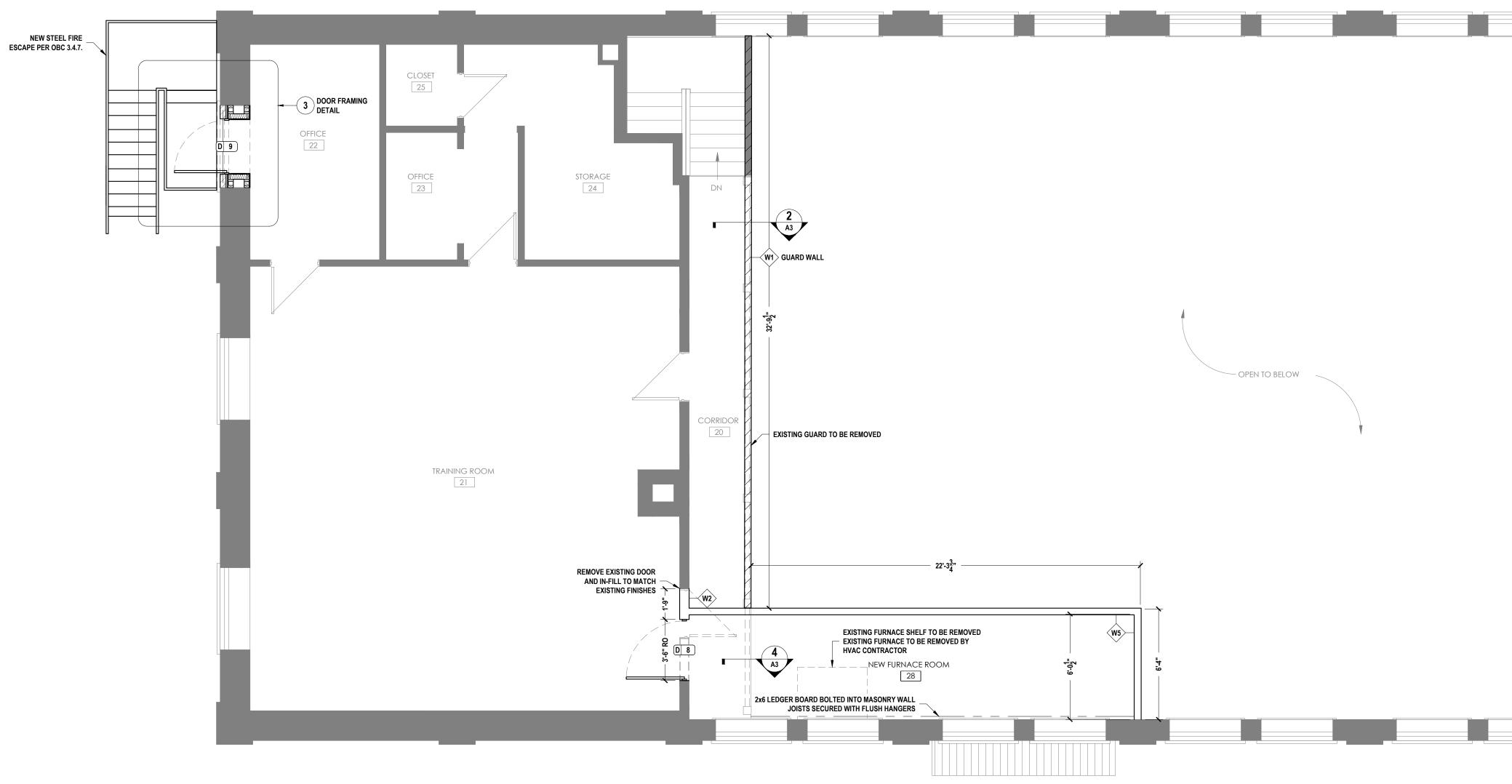
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BE RETURNED UPON REQUEST. THIS DOCUMENT MAY NOT BE REPRODUCED OR USED FOR OTHER THAN <u>DDDG.</u> ENGINEERING SERVICES AUTHORIZED PURPOSES WITHOUT THE WRITTEN CONSENT OF DDDG ENGINEERING SERVICES.	0	2024-10-11	ISSUED FOR TENDER	AJ		Phone: (613 E-mail: dono
THE RECIPIENT MUST KEEP CONFIDENTIAL, AND REQUIRE HIS EMPLOYEES TO KEEP CONFIDENTIAL THE INFORMATION	С	2024-10-10	REVISED FOR ARCHITECT AND ENG. REVIEW	AJ	Services	Website: ww
CONTAINED HEREON. THE CONTRACTOR, PRIOR TO STARTING WORK, SHALL CHECK ALL DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS AND MUST REPORT ALL DISCREPANCIES AND ERRORS OR OMISSIONS TO THE	В	2024-10-01	PRELIMINARY FOR ARCHITECT REVIEW	AJ	DWN. A JENSEN	
ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY	Α	2024-08-30	PRELIMINARY FOR ARCHITECT AND CLIENT REVIEW	AJ	CH'D. D DE GROOT	
ERROR OR OMISSION IMPUTABLE TO THIS LACK OF PRECAUTION. DO NOT SCALE THE DRAWINGS.	REV.	DATE	DESCRIPTION	INIT.	APP'D. C VAN ALSTINE	



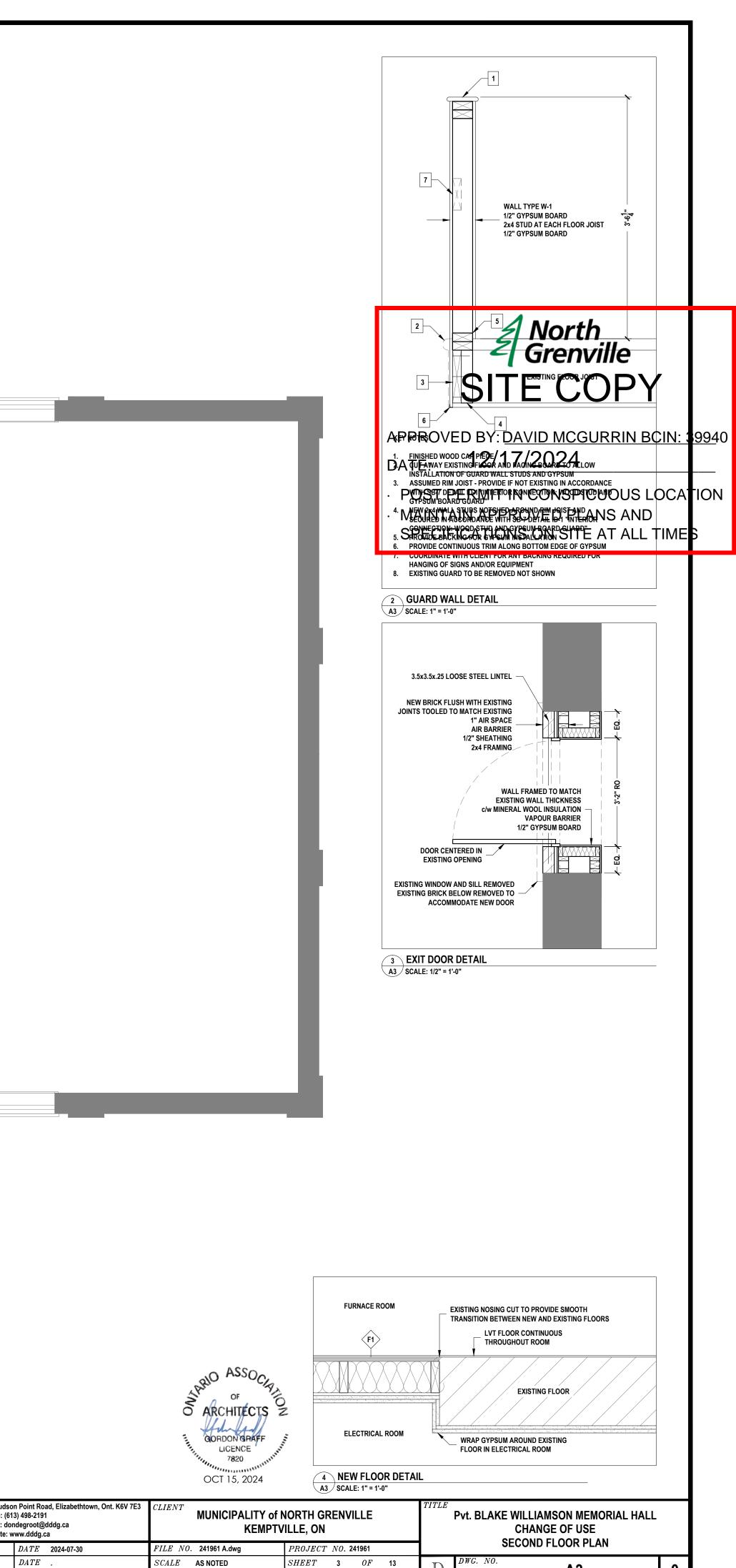


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1 SECOND FLOOR PLAN A3 SCALE: 1/4" = 1'-0"

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A3

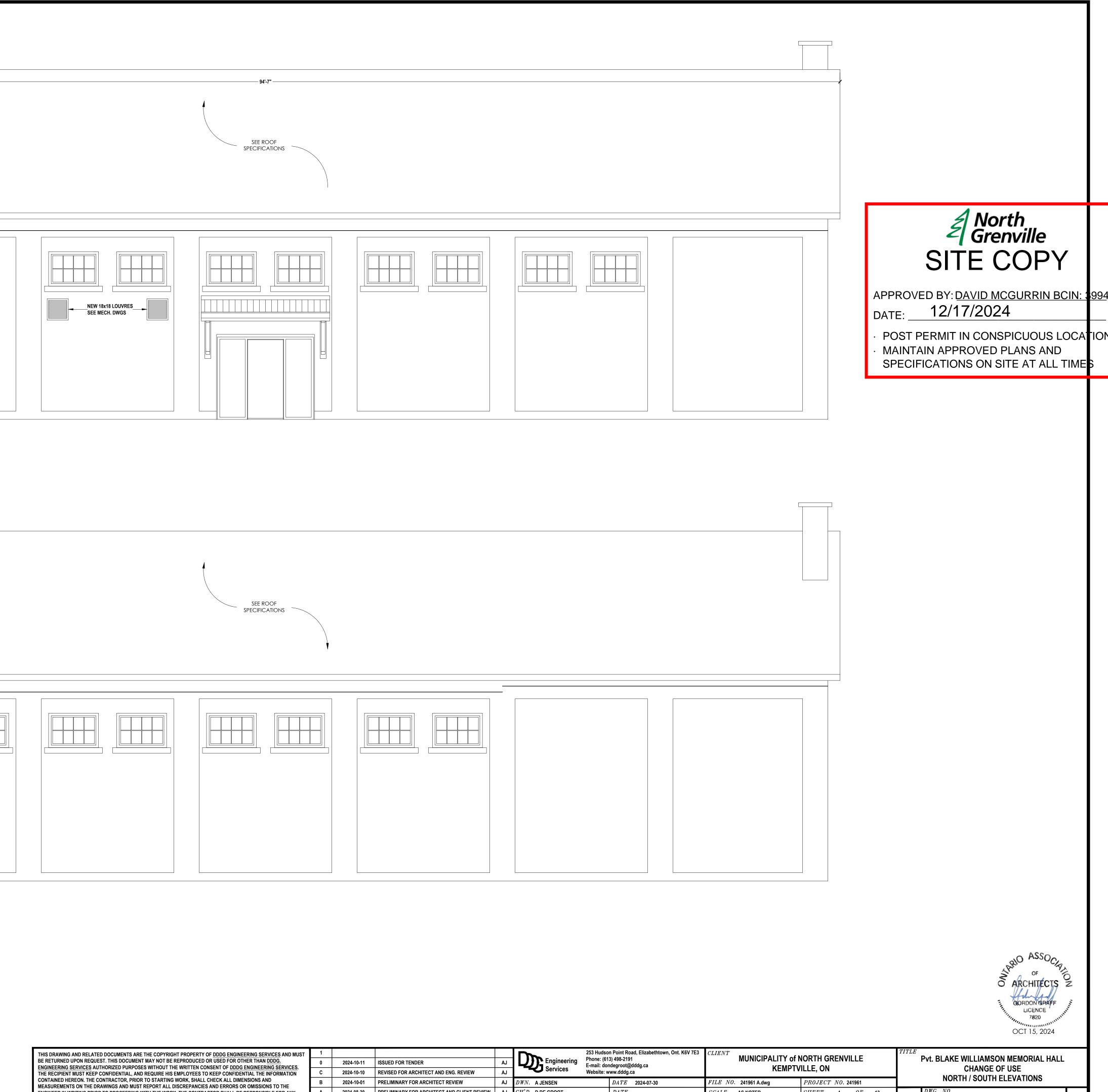
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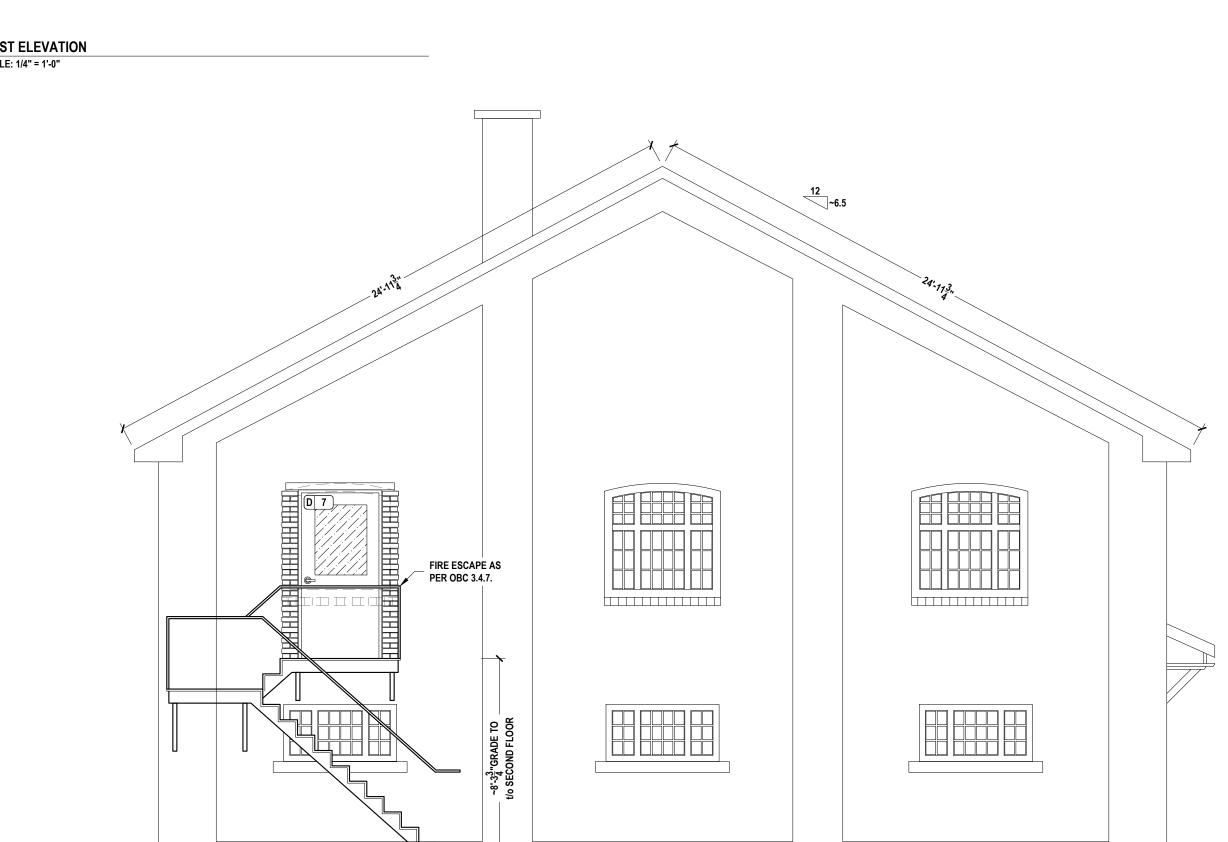




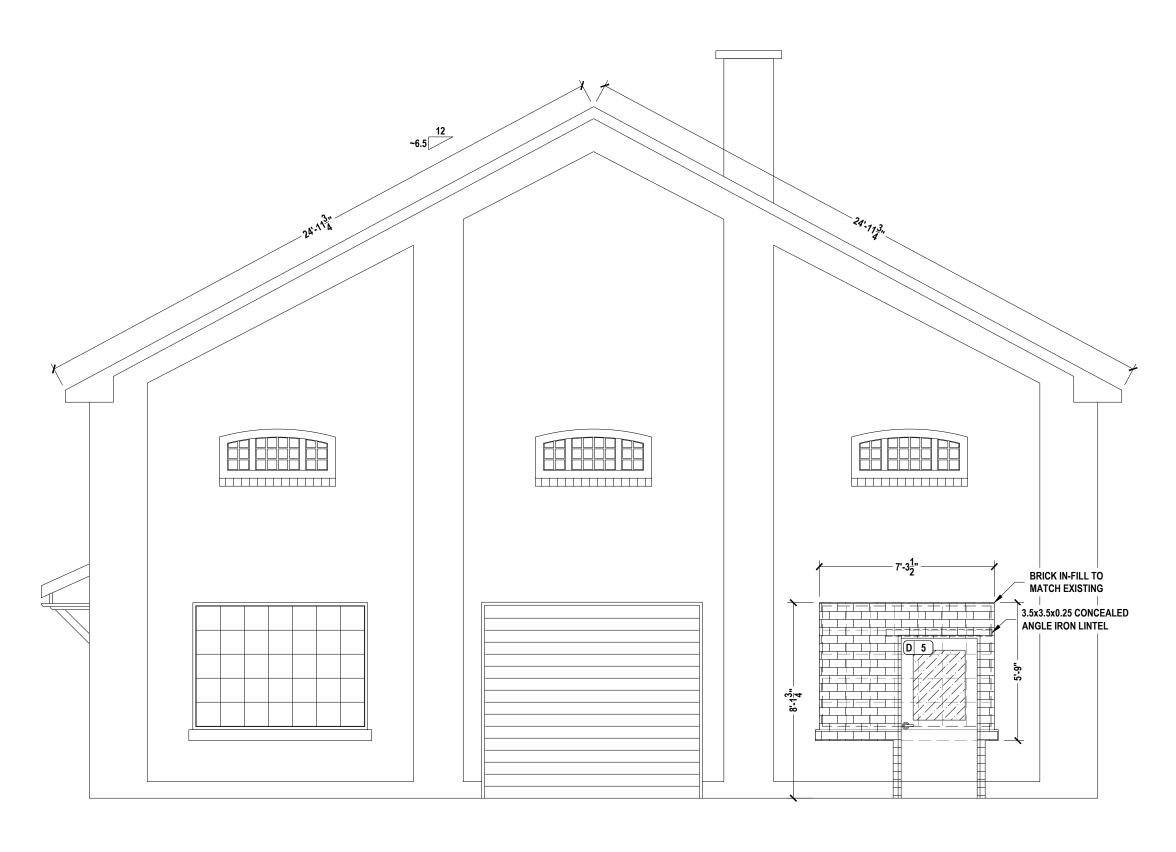
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## 2 WEST ELEVATION A5 SCALE: 1/4" = 1'-0"



## 1 EAST ELEVATION A5 SCALE: 1/4" = 1'-0"



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APPROVED BY: DAVID MCGURRIN BCIN: 39940 DATE: 12/17/2024

- · POST PERMIT IN CONSPICUOUS LOCATION
- · MAINTAIN APPROVED PLANS AND
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### MECHANICAL SPECIFICATION:

REFER ALSO TO GENERAL SPECIFICATIONS ON SHEET A0.

HVAC SCOPE OF WORK:

## SUPPLY AND INSTALL ALL MATERIALS, EQUIPMENT AND LABOUR TO INSTALL, CONSTRUCT AND COMMISSION THE FOLLOWING FULLY FUNCTIONING SYSTEMS AS DESCRIBED ON DRAWINGS IN SHEET LIST TABLE BELOW.

- A. RELOCATE EXISTING MAIN FLOOR FURNACE
- B. COMPLETE REMOVAL OF EXISTING UNUSED MAIN FLOOR FURNACE C. TWO NEW DUCTED HEAT PUMP UNITS INSTALLED WITH EXISTING FURNACES
- D. TWO NEW ENERGY RECOVERY VENTILATORS AND DUCTWORK
- E. DUCT WORK
   E.A. RETAIN EXISTING DUCTWORK GRILLES, AND DIFFUSERS UNLESS INDICATED, REPAIR AS NECESSARY
   E.B. PROVIDE NEW DUCTWORK, GRILLES, AND DIFFUSERS AS INDICATED
- PROVIDE SETUP AND TRAINING FOR ALL EQUIPMENT, (I.E.) HVAC SYSTEMS AND THERMOSTATS.

THIS CONTRACTOR SHALL INSPECT THE PROJECT PRIOR TO TENDER TO REALIZE THE SCOPE OF WORK INVOLVED AND TO FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FIELD DATA INCLUDING MEASUREMENT, DRAWINGS, ORIENTATION, LOCATION AND SPECIFICATION. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY IN THIS REGARD. NOTIFY THE ENGINEER OF ANY DISCREPANCY BEFORE COMMENCING WORK. OBEY ONLY WRITTEN INSTRUCTIONS.

CONFER WITH ALL TRADES INSTALLING EQUIPMENT WHICH MAY AFFECT THE MECHANICAL WORK AND ARRANGE THE WORK IN PROPER RELATION WITH EQUIPMENT INSTALLED UNDER ALL DIVISIONS OF THE CONTRACT. NO EXTRA WILL BE ALLOWED FOR FAILURE TO DO SO.

LOCATION OF ALL REGISTERS, FANS, DIFFUSERS, THERMOSTATS, ACCESS PANELS, SWITCHES, ETC, TO BE APPROVED BY THE DESIGNER PRIOR TO INSTALLATION.

### HVAC SPECIFICATION:

GENERAL:

### ALL MATERIALS AND INSTALLATION OF AIR DUCT SYSTEMS MUST CONFORM TO ONTARIO BUILDING CODE.

ALL DUCTWORK SHALL BE PERMANENTLY SUPPORTED OR CLIPPED TO PREVENT MOVEMENT/VIBRATION, SAGGING, PINCHING, DISTORTION, AND GENERALLY TO PROMOTE GOOD AIR FLOW.

PROVIDE HANGERS INSERTS, SLEEVES AND SUPPORTS AS REQUIRED/PRESCRIBED BY APPLICABLE CODES.

WHEREVER ANY BASE BUILDING EQUIPMENT REQUIRES ACCESSIBILITY, MAINTENANCE OR ADJUSTMENT, PROVIDE ACCESS DOORS APPROVED BY ARCHITECT AND OWNER.

SUPPLY AND INSTALL FIRE DAMPERS COMPLETE WITH ACCESS DOORS AS REQUIRED BY AUTHORITIES. ALL DAMPERS SHALL BEAR THE LABEL OF ULC OR OTHER APPROVED AUTHORITY'S LABEL.

PROVIDE BALANCING DAMPERS AS REQUIRED. DAMPERS SHALL BE COMPLETE WITH LOCKING QUADRANTS.

JOINTS AND SEAMS OF EVERY INTERIOR DUCT SHALL BE SECURELY FASTENED AND MADE SUBSTANTIALLY AIRTIGHT AND MEET DUCT SEAL LEVEL A (ASHRAE 90.1). PRESSURE SENSITIVE TAPE MAY ONLY BE USED IF IT MEETS UL-181A OR UL-181B. SLIP JOINTS SHALL HAVE A LAP OF AT LEAST 1" AND SHALL BE INDIVIDUALLY FASTENED.

### DUCTWORK:

EXISTING DUCTWORK, GRILLES, AND DIFFUSERS THROUGHOUT BUILDING ASSOCIATED WITH BASEMENT FURNACE ARE TO REMAIN. CONTRACTOR IS TO REPAIR ANY DAMAGE AS REQUIRED TO PROVIDE AN OPERABLE SYSTEM.

SHALL BE CONSTRUCTED OF ALUMINUM OR GALVANIZED SHEETS.

U.S. STANDARD GAUGE FOR DUCTS SHALL NOT BE LESS THAN #24 GAUGE.

EXHAUST DUCTS SHALL BE SUPPORTED BY HANGERS AND KEPT UP OFF OF THE TOPSIDE OF CEILINGS TO REDUCE SOUND TRANSMISSION.

INSTALLATION AND FABRICATION OF DUCTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ASHRAE AND SMACNA RECOMMENDATIONS.

ELBOWS SHALL BE MADE WITH A RADIUS RATIO OF 1-1/4. WHERE THIS IS NOT POSSIBLE, TURNING VANES SHALL BE USED.

INSTALL AND TEST EQUIPMENT ACCORDING TO THE MANUFACTURERS' INSTRUCTIONS FOR MOUNTING, SERVICE, CLEARANCES, AND COMMISSIONING. PROVIDE MINIMUM STRAIGHT RUNS WITH SECURE AND AIR-TIGHT DUCT-COLLAR CONNECTIONS. TEST, ADJUST, BALANCE, AND VERIFY SEQUENCE FOR INTENDED OPERATION. SUBMIT EQUIPMENT OPERATION AND MAINTENANCE INSTRUCTIONS WITH PROJECT MANUALS, INCLUDING FINAL SETTINGS AND TEST/INSPECTION RECORDS WITH REFERENCE TO SERIAL OR LOCATION.

### AIR BALANCING:

AIR BALANCING TO BE PERFORMED BY A CERTIFIED AIR BALANCER IN THE PRESENCE OF THE MECHANICAL CONTRACTOR.

THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO MAKE ANY AND ALL ADJUSTMENTS AS NECESSARY.

AIR BALANCING REPORT TO BE SUBMITTED TO THE OWNER.

### INSULATION:

PROVIDE R-4.2 MIN. EXTERNAL DUCT INSULATION WITH VAPOUR BARRIER FOR ALL FRESH AIR, MIXED AIR AND SUPPLY AIR DUCTWORK LOCATED IN CEILING SPACES AND IN NON-AIRCONDITIONED AREAS OF THE BUILDING.

ALL FRESH AIR INTAKE DUCTS TO BE INSULATED ALONG THEIR ENTIRE LENGTH UP TO THE APPLIANCE THAT THEY SERVE.

ALL EXHAUST DUCTS TO BE INSULATED FOR A LENGTH OF AT LEAST 10' FROM THE EXTERIOR TERMINATION.

COMBUSTIBLE DUCTING, INSULATION, COVERINGS, TAPES AND ADHESIVES MUST HAVE A MAXIMUM FLAME-SPREAD RATING OF 25 AND

MAXIMUM SMOKE-DEVELOPED RATING OF 50. THESE COMPONENTS MUST BE INSTALLED SUCH THAT THEY ARE INTERRUPTED AT A FIRE SEPARATION, DO NOT INTERFERE WITH OPERATION OF FIRE-DAMPERS & BALANCING DAMPERS, AND ARE NOT IN IMMEDIATE CONTACT WITH A HEAT SOURCE. COMBUSTIBLE COMPONENTS ARE PROHIBITED WHERE THEY MAY BE EXPOSED TO TEMPERATURES EXCEEDING 248F/120C.

### TERMINAL DEVICES:

EXHAUST OUTLETS MUST HAVE BACK-DRAFT DAMPERS AT THE DISCHARGE.

EXTERIOR OPENINGS FOR OUTDOOR AIR INTAKES AND EXHAUST OUTLETS MUST BE FITTED WITH CORROSION-RESISTANT MESH SCREENS AND WEATHER HOODS OR DRAINABLE LOUVRES WHILE ALLOWING THE DUCTS TO BE ACCESSED FOR MAINTENANCE.

PROVIDE ADEQUATE CLEARANCES BETWEEN EXHAUSTS AND INTAKES OR OPERABLE WINDOWS AS NOTED IN DRAWINGS OR

### OTHERWISE AS PRESCRIBED BY APPLICABLE CODES.

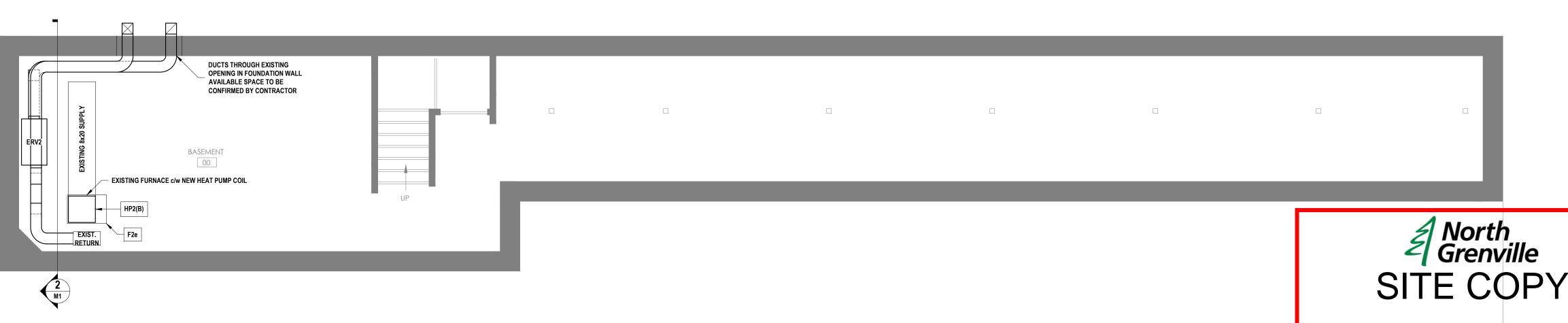
THERMOSTATS: PROVIDE ROUGH-IN FOR THERMOSTATS.

ROOM THERMOSTATS TO BE MOUNTED 1200MM [3'-11"] TO CENTRE AFF.

THERMOSTATS IN PUBLIC SPACES (E.G. VESTIBULE) SHALL INCLUDE LOCKING COVER.

1 BASEMENT MECHANCIAL PLAN

M1 SCALE: 1/4" = 1'-0"

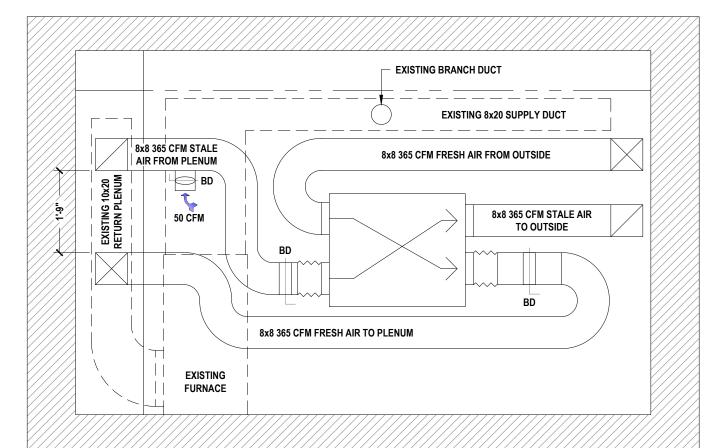


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APPROVED BY: <u>DAVID MCGURRIN BCIN: 3994</u>0 DATE: <u>12/17/20</u>24

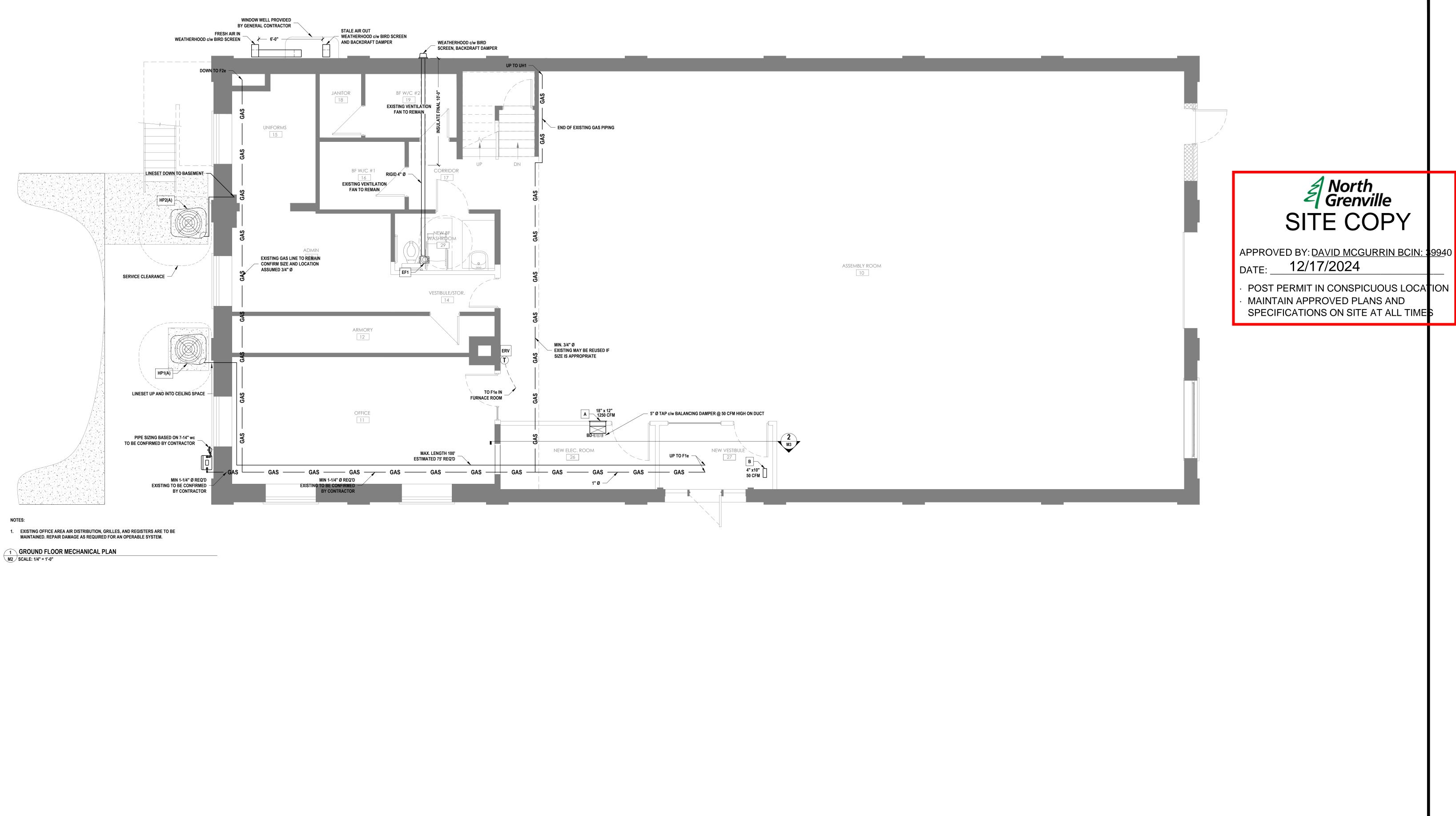
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2 SECTION THROUGH BASEMENT M1 SCALE: 1/2" = 1'-0"





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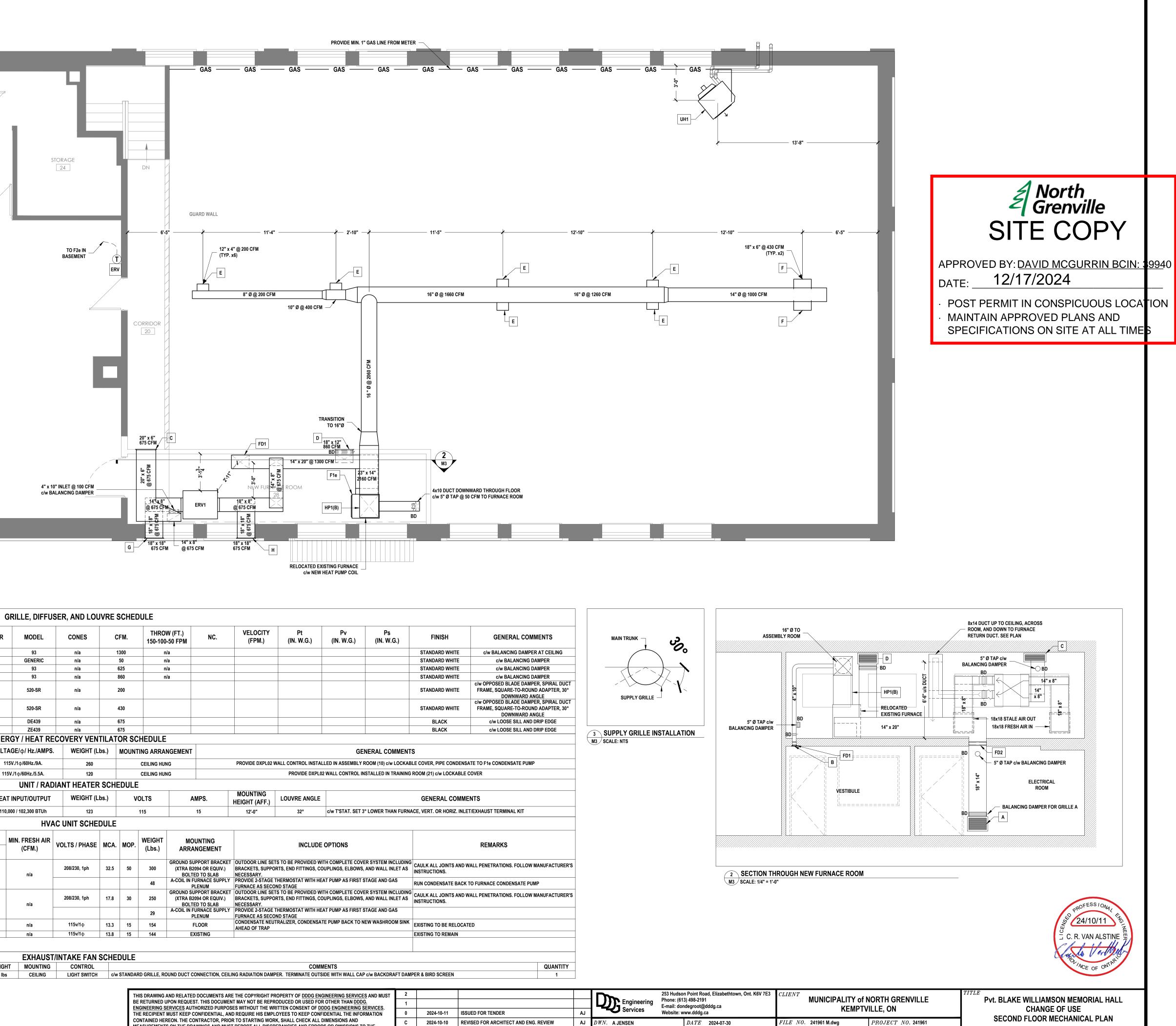
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DETAIL No.	DES	CRIPTION	STATUS	SIZE	PANE	L	BORDER	MANUFAC	TURER	MODEL	CONES	CFM.		OW (FT.) 0-50 FPM	NC.	VELOCITY (FPM.)	Pt (IN. W.G.)	Pv (IN. W.G.)	Ps (IN. W.G.)	FINISH	GENERAL COMMENTS
Α	RECTANGUL	AR RETURN GRILLE	RETURN AIR	18" x 18"	n/a		n/a	E.H. PR	RICE	93	n/a	1300		n/a						STANDARD WHITE	c/w BALANCING DAMPER AT CEILING
В	RECTANGULAR SU	PPLY CEILING REGISTER	SUPPLY AIR	10" x 4"	n/a		n/a	GENE	RIC	GENERIC	n/a	50		n/a						STANDARD WHITE	c/w BALANCING DAMPER
С	RECTANGUL	AR RETURN GRILLE	STALE AIR	20" x 6"	n/a		n/a	E.H. PR	RICE	93	n/a	625		n/a						STANDARD WHITE	c/w BALANCING DAMPER
D	RECTANGUL	AR RETURN GRILLE	RETURN AIR	18" x 12"	n/a		n/a	E.H. PR	RICE	93	n/a	860		n/a						STANDARD WHITE	c/w BALANCING DAMPER
E	ROUND	SUPPLY GRILLE	SUPPLY AIR	12" x 4"	n/a		n/a	E.H. PR	RICE	520-SR	n/a	200								STANDARD WHITE	c/w OPPOSED BLADE DAMPER, SPIRAL DUCT FRAME, SQUARE-TO-ROUND ADAPTER, 30° DOWNWARD ANGLE
F	ROUND	SUPPLY GRILLE	SUPPLY AIR	18" x 6"	n/a		n/a	E.H. PR	RICE	520-SR	n/a	430								STANDARD WHITE	c/w OPPOSED BLADE DAMPER, SPIRAL DUCT FRAME, SQUARE-TO-ROUND ADAPTER, 30° DOWNWARD ANGLE
G	FRESH AIR	INTAKE LOUVRE	FRESH AIR	18" x 18"	n/a		n/a	E.H. PR	RICE	DE439	n/a	675								BLACK	c/w LOOSE SILL AND DRIP EDGE
Н	STALE AIR	EXHAUST LOUVRE	STALE AIR	18" x 18"	n/a		n/a	E.H. PR	RICE	ZE439	n/a	675								BLACK	c/w LOOSE SILL AND DRIP EDGE
									ENERG	Y / HEAT RE	<b>ECOVERY VEN</b>	TILATOR	SCHEDULE								
NIT REF.	MANUFACTURER	MODEL No.		PART No.			AIRFLOW (C	fm.)	VOLTAGI	E/φ/ Hz./AMPS	. WEIGHT (L	bs.) MO	UNTING ARRA	NGEMENT				GE	NERAL COMMEN	TS	
ERV1	LIFEBREATH	530 ERV		n/a			675		115V./	1φ/ <b>60Hz./9A.</b>	260		CEILING HU	ING		PROVIDE DXPL02 W	ALL CONTROL INSTAL	LLED IN ASSEMBLY F	ROOM (10) c/w LOCKA	ABLE COVER, PIPE CONDENS	SATE TO F1e CONDENSATE PUMP
ERV2	LIFEBREATH	330 ERV		n/a			365		115V./1	ф/ <b>60Hz./5.5A</b> .	120		CEILING HU	ING			PROVIDE DXPL0	2 WALL CONTROL IN	ISTALLED IN TRAININ	G ROOM (21) c/w LOCKABLE	COVER
						I				UNIT / RAD	DIANT HEATER	SCHEDU	ILE								
																MOUNTING					
IIT REF.	DESCRIPTION	MANUFACTURER		MODEL			AIRFLOW (C	fm.)	HEAT IN	PUT/OUTPUT	WEIGHT (L	bs.)	VOLTS	A	MPS.	HEIGHT (AFF.)	LOUVRE ANGLE			GENERAL COMM	ENTS
UH1	UNIT HEATER	REZNOR		UEZ-110			1,793		110,000	/ 102,300 BTUh	123		115		15	12'-0"	32°	c/w T'STAT. SET 3	° LOWER THAN FUR	NACE, VERT. OR HORIZ. INL	ET/EXHAUST TERMINAL KIT
								1		HVA	AC UNIT SCHE	DULE									
JNIT NOM.	MANUFACTURER	MODEL No.	COOLING	3		HEATING	3	SUPPLY FA	N MI	N. FRESH AIR	VOLTS / PHASE	MCA MC	WEIGHT		UNTING			OPTIONS			REMARKS
REF. TONS	MANOFACTORER		AL EER2 STAGES		R INPUT ( MBH	OUTPUT MBH	STAGES CF	M. EXT. SP.	HP.	(CFM.)	VOLTO / THAOL		(Lbs.)		NGEMENT						
P1(A) 5	LENNOX	EL-17-X-P-1-060-230 OUTDOOR UNIT 57.0		n/a		54.0/35.4	2	n/a		n/a	208/230, 1ph	32.5 5	i0 300	BOLTE	ED TO SLAB	NECESSARY.	,,,	,,		G CAULK ALL JOINTS AND INSTRUCTIONS.	WALL PENETRATIONS. FOLLOW MANUFACTURER
P1(B)		C35-60-D INDOOR UNIT											48	PI	LENUM	PROVIDE 2-STAGE T FURNACE AS SECON	ID STAGE				TO FURNACE CONDENSATE PUMP
P2(A) 3	LENNOX	EL-17-X-P-1-036-230 OUTDOOR UNIT 35.8	3 13 1	n/a		32.8/21.6	2	n/a		n/a	208/230, 1ph	17.8 3	0 250	(XTRA B2 BOLTE	094 OR EQUIV.) ED TO SLAB	OUTDOOR LINE SET BRACKETS, SUPPOR NECESSARY.	RTS, END FITTINGS, CO	DUPLINGS, ELBOWS,	AND WALL INLET AS	IG CAULK ALL JOINTS AND INSTRUCTIONS.	WALL PENETRATIONS. FOLLOW MANUFACTURER
IP2(B)		C35-36-C INDOOR UNIT											29		URNACE SUPPLY	PROVIDE 2-STAGE T FURNACE AS SECON	ID STACE				
F1e n/a	GOODMAN	GMEC961205DNAC	n/a		120	115.2	2 216	60 0.2	1	n/a	<b>115ν/1</b> φ	13.3 1	5 154	F	LOOR	CONDENSATE NEUT	RALIZER, CONDENSA	TE PUMP BACK TO N	EW WASHROOM SIN	<	TED
F2e		GMH950904CXAG	1174		92	88.4	1 1,1	55 0.2	0.5	n/a	<b>115ν/1</b> φ	13.8 1	5 144	EX	(ISTING					EXISTING TO REMAIN	
TES:					<b>i</b>																
IENT CONDITIO	ONS BASED ON: SUMMER 95°	DB, WINTER -5°F.								EVUALIOT											
										EXHAUSI	/INTAKE FAN	っしHFUUI									
UNIT REF	DESCR		MANUF.	MODEL	CFM		VOLTAGE	MCA	WEIGHT	MOUNTING	CONTROL							MENTS			QUANTITY

**SECOND FLOOR MECHANICAL PLAN** M3 SCALE: 1/4" = 1'-0"

NOTES:

1. EXISTING TRAINING ROOM AND ADJACENT ROOMS AIR DISTRIBUTION, GRILLES, AND REGISTERS ARE TO BE MAINTAINED. REPAIR DAMAGE AS REQUIRED FOR AN OPERABLE SYSTEM.

CLOSET OFFICE OFFICE STORAGE TO F2e IN \_\_\_\_\_ BASEMENT TRAINING ROOM 4" x 10" INLET @ 100 CFM \_ c/w BALANCING DAMPER \_



DATE

DATE

SHEET 8 OF 13

WG. NC

M3

SCALE AS NOTED

CONTINUED ON SHEET NO. E1

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THE RECIPIENT MUST KEEP CONFIDENTIAL, AND REQUIRE HIS EMPLOYEES TO KEEP CONFIDENTIAL THE INFORMATION	0	2024-10-11	ISSUED FOR TENDER	AJ	Services	Website
CONTAINED HEREON. THE CONTRACTOR, PRIOR TO STARTING WORK, SHALL CHECK ALL DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS AND MUST REPORT ALL DISCREPANCIES AND ERRORS OR OMISSIONS TO THE	С	2024-10-10	REVISED FOR ARCHITECT AND ENG. REVIEW	AJ	DWN. A JENSEN	
ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY	Α	2024-08-30	PRELIMINARY FOR ARCHITECT AND CLIENT REVIEW	AJ	CH'D. D DE GROOT	
ERROR OR OMISSION IMPUTABLE TO THIS LACK OF PRECAUTION. DO NOT SCALE THE DRAWINGS.	REV.	DATE	DESCRIPTION	INIT.	APP'D. C VAN ALSTINE	

ELECTRICAL SPECIFICATIONS:
ELECTRICAL SCOPE OF WORK: PROVIDE ALL MATERIALS, EQUIPMENT AND LABOUR REQUIRED TO CONSTRUCT A COMPLETE, PROPERLY FUNCTIONING ELECTRICAL SYSTEM FROM POINT OF ELECTRICAL SERVICE THROUGH TO DISTRIBUTION, FEEDERS, PANELBOARDS AND BRANCH CIRCUIT WIRING TO ALL OUTLETS, DEVICES, FIXTURES AND IN ACCORDANCE WITH THE SPECIFICATIONS AND PLANS. THE WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
<ul> <li>A. DE-ENERGZE AND DISCONNECT EXISTING ELECTRICAL COMPONENTS THAT ARE TO BE REMOVED OR REVISED.</li> <li>B. ELECTRIC SPACE HEATING EQUIPMENT.</li> <li>C. MISCELLANEOUS ELECTRICAL WORK FOR OTHER TRADES.</li> <li>D. SUPPLY, INSTALLATION, AND RELOCATION OF LIGHTING FIXTURES INDICATED ON DRAWINGS.</li> <li>E. RECONNECT EXISTING ELECTRICAL COMPONENTS THAT ARE TO REMAIN.</li> </ul>
REFER TO GENERAL SPECIFICATIONS ON SHEET A0.
INSPECT THE PROJECT PRIOR TO TENDER TO REALIZE THE SCOPE OF WORK INVOLVED AND THE SITE CONDITIONS. VERIFY ALL FIELD DATA INCLUDING MEASUREMENT, DRAWINGS, ORIENTATION, LOCATION AND SPECIFICATION. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN THIS REGARD. NOTIFY THE ENGINEER OF ANY DISCREPANCY BEFORE COMMENCING WORK. OBEY ONLY WRITTEN INSTRUCTIONS.
CONFER WITH ALL TRADES INSTALLING EQUIPMENT WHICH MAY AFFECT THE ELECTRICAL WORK FOR EQUIPMENT INSTALLED UNDER ALL DIVISIONS OF THE CONTRACT. NO EXTRA WILL BE ALLOWED FOR FAILURE TO DO SO.
<u>DEMOLITION:</u> VISIT THE SITE, EXAMINE THE EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE EXTENT OF THE NECESSARY REMOVAL, RELOCATION, RECONNECTING, AND REROUTING OF ELECTRICAL EQUIPMENT AND WIRING AS NECESSARY FOR THE COMPLETION OF THE PROJECT.
REVIEW AND CONFIRM WITH THE ARCHITECT/DESIGNER'S DRAWINGS FOR THE COMPLETE EXTENT OF DEMOLITION AND ALTERATION.
MAKE SAFE AND DISCONNECT ALL POWER AND SYSTEMS, AS AND WHEN, AND TO THE EXTENT REQUIRED TO FACILITATE WITH THE DEMOLITION.
ENSURE THAT ALL ELECTRICAL, LIFE SAFETY SERVICES, AND SERVICES FOR EXISTING EQUIPMENT, IN AREAS OUTSIDE THE AREAS OF THIS WORK, THAT ARE REQUIRED TO REMAIN IN SERVICE, SHALL DO SO.
RELOCATE ANY ELECTRICAL FEEDERS OR EQUIPMENT THAT ARE REQUIRED TO REMAIN IN SERVICE, THAT ARE SECURED TO EXISTING WALLS, FLOORS OR CEILINGS TO BE DEMOLISHED OR THAT ARE BURIED AND REQUIRED TO BE EXCAVATED FOR NEW WORK.
REMOVE AND REPLACE ANY ELECTRICAL EQUIPMENT ON WALLS OR CEILINGS THAT WILL BE DEMOLISHED AND REBUILT.
WHEN DELETING AND/OR MAKING SAFE EXISTING ELECTRICAL WORK, ENSURE THAT IT INCLUDES ALL WIRING BACK TO THE ASSOCIATED PANEL BOARDS OR CONTROL PANEL.
DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES, DEVICES, OUTLETS, ETC. WHICH ARE NOT TO BE REUSED. SUCH ITEMS SHALL BE RE-CARTONED AND TURNED OVER TO THE OWNER AT A PLACE DESIGNATED BY THE OWNER.
CUT BACK AND CAP UNUSED RACEWAY AND OUTLETS AND REMOVED UNUSED WIRING BACK TO PANEL BOARD IN APPROVED MANNER.
INCLUDE IN DEMOLITION WORK FOR REMOVAL OF ALL COMMUNICATION DEVICES, OUTLETS, CABLES, ETC., WHICH ARE NOT TO BE REUSED. REMOVE ALL UNNECESSARY CABLES AND EQUIPMENT IN HUB ROOMS AND/OR TELEPHONE ROOMS WITH EXTREME CARE TO AVOID ANY ACCIDENTAL SHUTDOWN TO EXISTING SERVICES SERVING OTHER PARTS OF THE BUILDING.
PROVIDE BLANK COVER PLATE WHERE OUTLETS ARE REMOVED FROM EXISTING WALLS TO REMAIN.
ALL EXISTING ELECTRICAL EQUIPMENT WHICH IS NO LONGER REQUIRED SHALL BE REMOVED AND DISPOSED OF, OFF SITE.
THE CONTRACTOR IS RESPONSIBLE AND WILL PAY FOR ANY DAMAGE TO THE BASE BUILDING INCURRED BY WORK OF THIS DIVISION, OR REPAIR TO THE SATISFACTION OF THE CONSULTANT.
CARRY OUT THE WORK WITH MINIMUM OF NOISE, DUST AND DISTURBANCE.

BURNING OF HOLES IN STRUCTURAL STEEL IS PROHIBITED.

PROVIDE HANGERS INSERTS, SLEEVES AND SUPPORTS AS REQUIRED.

FOLLOW I-JOIST MANUFACTURER'S INSTRUCTIONS WHEN DRILLING HOLES THROUGH WOOD I-JOISTS.

### ACCESS DOORS: WHEREVER ANY BASE BUILDING EQUIPMENT REQUIRES ACCESSIBILITY, MAINTENANCE OR ADJUSTMENT, PROVIDE ACCESS DOORS APPROVED BY DESIGN BUILDER/ARCHITECT AND OWNER. ARRANGE FOR ITS INSTALLATION BY THE DIVISION IN WHOSE WORK IT OCCURS.

NOISE AND VIBRATION: ELECTRICAL EQUIPMENT IS TO OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION.

CONNECTIONS TO NOISE-PRODUCING AND VIBRATING EQUIPMENT MUST BE MADE WITH FLEXIBLE CONDUIT.

VIBRATION ISOLATORS ARE TO BE PROVIDED WHERE INDICATED OR REQUIRED. TRANSFORMERS TO BE ISOLATED FROM THE STRUCTURE, WITH SPRING AND RUBBER ISOLATORS WHEN WALL MOUNTED OR SUSPENDED AND 12MM (1/2") HIGH DENSITY NEOPRENE SANDWICH PADS (TYPE MWP) WHEN FLOOR MOUNTED.

IDENTIFICATION: PROVIDE LAMACOID NAMEPLATES ON ALL PANELS, DISCONNECT SWITCHES, SPLITTERS, ETC. TO MATCH BASE BUILDING. NAMEPLATES SHALL BE MECHANICALLY ATTACHED TO EQUIPMENT BY MEANS OF RIVETS OR SELF TAPPING SCREWS. PROVIDE TYPEWRITTEN DIRECTORIES FOR NEW PANELS.

CLEARLY MARK ALL EXPOSED CONDUIT, PULL BOXES, JUNCTION BOXES, ETC., TO INDICATE THE NATURE OF THE SERVICE TO MATCH BASE BUILDING STANDARDS.

MEGGERING AND BALANCING

OUTLET BOXES:

INSERTS, HANGERS AND SLEEVES:

MEGGER ALL POWER CIRCUIT FEEDERS. IF GROUND RESISTANCE ON ANY CIRCUIT IS LESS THAN THAT REQUIRED BY CSA OR OTHER GOVERNING REGULATIONS, SUCH CIRCUITS ARE TO BE CONSIDERED DEFECTIVE AND MUST REPLACED.

MEASURE PHASE CURRENT TO PANEL BOARDS WITH NORMAL LOADS OPERATING AT TIME OF ACCEPTANCE. ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN BEST BALANCE OF CURRENT BETWEEN PHASES AND SUBMIT A REPORT FOR INSERTION INTO MANUALS.

LIGHTING FIXTURES AND LAMPS: SUPPLY, INSTALL, ADJUST AND CLEAN ALL FIXTURES, LAMPS AND LENSES AS DESCRIBED IN THE FIXTURE SCHEDULE. PROVIDE ALL AUXILIARY SUPPORTS AS REQUIRED. FIXTURES, LAMPS AND LENSES WILL BE SUPPLIED BY THIS CONTRACTOR.

ALL LUMINAIRES WILL BE COMPLETE WITH NEW LAMPS, BALLASTS, ACCESSORIES AND MOUNTING APPURTENANCES. ALL LUMINAIRES INSULATED GROUND CONDUCTOR IN EVERY CONDUIT TO ALL DEVICES, LUMINAIRES AND FEEDERS (PANEL E TO BE CSA APPROVED. AIM AND ADJUST ALL LUMINAIRES IN PRESENCE OF ENGINEER.

EMERGENCY LIGHTING & EXIT LIGHTS: SUPPLY AND INSTALL ALL EXIT & EMERGENCY LIGHTS AS SHOWN ON DRAWINGS.

ALL FIXTURES TO BE CSA APPROVED. AIM AND ADJUST ALL LUMINAIRES AND DEMONSTRATE TO ENGINEER. EMERGENCY LIGHTING CONDUCTORS MUST BE PROTECTED AS PER OBC. 3.2.7.10 (PROTECTION OF ELECTRICAL CONDUCTORS)

ELECTRICAL WIRING: ALL POWER WIRING TO BE CARRIED OUT UNDER ELECTRICAL CONTRACTORS WORK. ELECTRICAL CONTRACTOR SHALL SUPPLY AND

INSTALL DISCONNECT SWITCHES FOR ALL MOTORS UNLESS OTHERWISE NOTED. THIS CONTRACTOR SHALL SUBMIT SCHEMATIC DIAGRAMS FOR CONTROL WIRING, RELATING TO MECHANICAL EQUIPMENT FOR REVIEW PRIOR TO INSTALLATION. SERVICE EQUIPMENT:

ALL NEW PANEL BOARDS, DISCONNECT SWITCHES, METERS, TRANSFORMERS, ETC. TO BE SAME MANUFACTURER.

SHALL BE 4" OCTAGONAL OR 4" SQUARE. EXTRA LARGE BOXES SHALL BE IN ACCORDANCE TO OHEPC CODE IN LIEU OF SIZES SPECIFIED WHERE NECESSARY IN ORDER TO PREVENT UNDUE CROWDING OF WIRE. USE NON-FERROUS ALLOY OR ALUMINIUM BOXES WITH GASKETED BLANK OR SPRING LOADED COVERS FOR ALL EXTERIOR LOCATIONS. RECEPTACLE AND SWITCH BOXES SHALL BE STANDARD 1104 OR AS REQUIRED FOR WALL CONSTRUCTION OR FINISH.

OUTLET BOXES SHALL BE ELECTRO-GALVANIZED STEEL, SIZED AS REQUIRED BY CODE. PROVIDE EACH LIGHT SWITCH, RECEPTACLE, COMMUNICATION AND OTHER OUTLET WITH AN OUTLET BOX. INSTALL PLUMB AND TRUE. PROVIDE 76MM (3") DEEP 1004 BOXES FOR DIMMING SWITCHES. ADAPT ALL OUTLET BOXES TO THEIR RESPECTIVE LOCATIONS AND SUPPORT INDEPENDENTLY OF THE CONDUIT. DO NOT CADDIE CLIP TO CEILING HANGERS. PROVIDE BLANK COVER PLATES FOR BOXES WITHOUT WIRING DEVICES. DO NOT INSTALL OUTLET BOXES BACK TO BACK IN PARTITIONS. STAGGER TO PREVENT SOUND TRANSFER AND REDUCTION OF FIRE RESISTANCE RATING. TWO OR MORE OUTLET BOXES THAT OCCUR AT THE SAME LOCATION SHALL BE GANGED TOGETHER IN THE SAME COVER

PLATE UNLESS OTHERWISE NOTED. OUTLET AND JUNCTION BOXES LOCATED IN FIRE RATED WALL AND CEILING ASSEMBLIES SHALL HAVE A FIRE RESISTANCE RATING TO MATCH OR EXCEED ASSEMBLY.

LOCATION OF OUTLETS: REFER TO DRAWINGS FOR LOCATIONS OF ALL LIGHTING FIXTURES AND WIRING DEVICES.

CHANGE LOCATION OF OUTLETS AT NO COST OR CREDIT, PROVIDING DISTANCE DOES NOT EXCEED 3M (10'-0") AND INFORMATION IS GIVEN PRIOR TO INSTALLATION.

ALL OUTLETS TO BE MARKED ON JOB SITE FOR APPROVAL BY BUILDER/ARCHITECT PRIOR TO INSTALLATION.

RECEPTACLE & SWITCH MOUNTING HEIGHTS (AFF.):

RECEPTACLES SWITCHES BARRIER FREE AREAS 16" 36" - 43" EXTERIOR 24" NA. OFFICE AREAS 12" 48" MECH AREAS 48"

WIRE & CABLE ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED. USE #14, #12 AND #10 SOLID, #8 AND LARGER STRANDED, WITH RW90 INSULATION, 600 VOLT RATING. BRANCH CIRCUIT RUNS EXCEEDING 75 FEET SHALL BE #10 AWG OR LARGER TO THE FIRST OUTLET.

NMD CABLE IS ACCEPTABLE FOR BRANCH WIRING ROUTED WITHIN WALLS & JOISTS.

BX#12 MAY BE USED IN CEILING SPACE FROM CEILING DISTRIBUTION BOX DOWN TO RECEPTACLES IN PARTITIONS. BX RUNS IN CEILING SPACE NOT TO EXCEED 3048MM. (10'-O") IN LENGTH. DO NOT RUN BX CABLES INTO PANEL BOARDS. SIZE ALL WIRE FOR MAXIMUM 3% VOLTAGE DROP. ALL HOME RUNS TO BE IN CONDUIT.

WHERE CONDUCTORS OR CONDUITS PASS THROUGH FIRE RATED WALLS OR FLOORS, PROVIDE FIRE STOPPING MATERIAL LISTED WITH, AND BEAR LABEL OF CSA AND ULC, AND MAINTAIN SAME FIRE RATING OF BUILDING COMPONENT PENETRATION.



(S)

GROUNDING GROUND ALL EQUIPMENT IN ACCORDANCE WITH LATEST EDITION OF THE ELECTRICAL SAFETY CODE. PROVID DISCONNECT SWITCHES, ETC.).

ELECTRIC HEATERS: PROVIDE AND INSTALL ELECTRIC WALL, SUSPENDED, & BASEBOARD HEATERS WITH THERMOSTATS.

BUILDING THERMOSTATS: PROVIDE ROUGH-IN CONDUIT FOR THERMOSTATS & CONTROLS FOR FRESH AIR, MUA, ERV, AND A/C UNITS. (S DRAWINGS)

JUNCTION BOXES AND PULL BOXES: JUNCTION BOXES AND PULL BOXES SHALL BE SUITABLE FOR SURFACE MOUNTING AND BE OF WELDED STEE SCREW-ON FLAT COVERS. FOR FLUSH-MOUNTED PULL AND JUNCTION BOXES, PROVIDE COVERS WITH 25MM (1") MINIMUM EXTENSION /

INSTALL JUNCTION AND PULL BOXES IN INCONSPICUOUS BUT ACCESSIBLE LOCATIONS. A MINIMUM OF ONE PULL BOX SHALL BE INSTALLED FOR EVERY 100 FT. (30M.) OF CONDUIT. (NOTE: EACH 90 D

TO 30 FT. (9M.) LENGTH OF CONDUIT.) NO MORE THAN (2) - 90 DEG. BENDS SHALL BE INSTALLED BETWEEN ANY TWO ADJACENT PULL BOXES.

LOCAL SWITCHES: EXCEPT FOR AUTOMATED SWITCHES PROVIDE SPECIFICATION GRADE LOCAL 20A. 120 VOLT AND 347 VOLT ST

120 VOLT:

P&S #2621 SERIES HUBBELL #HBL2121 SERIES

LEVITON #5621- 2 SERIES. REFER TO LEGEND FOR OTHER TYPES.

RECEPTACLES

PROVIDE SPECIFICATION GRADE 15A. 120 VOLT "U" GROUND RECEPTACLES, DUPLEX TYPE WITH MATCHING C P&S #26252 SERIES HUBBELL #HBL2152 SERIES

LEVITON #16262 SERIES

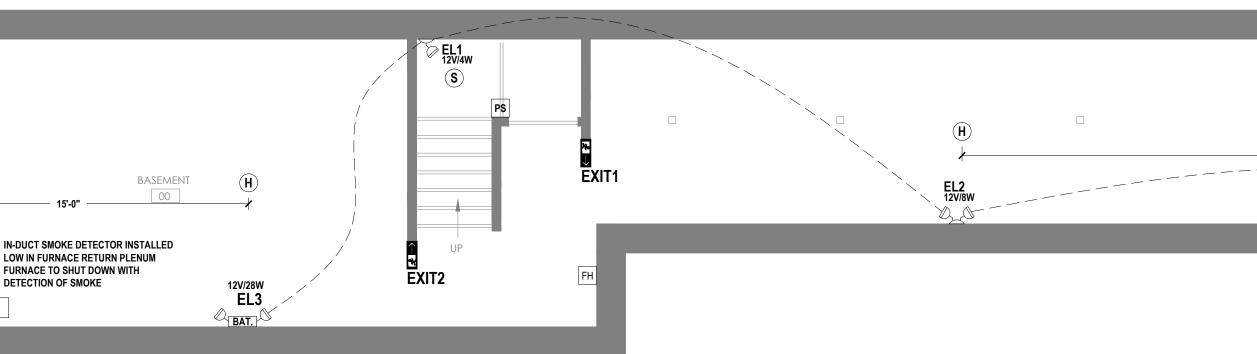
REFER TO LEGEND FOR OTHER TYPES. RECEPTACLES ON SEPARATE CIRCUITS ARE TO HAVE CIRCUIT NUMBER IDENTIFIED ON THE WALL PLATE AND

WITH THE EXACT LOCATION LISTED IN THE PANEL DIRECTORY.

POWER DOOR OPERATORS: CENTRE LOCATED BETWEEN 900MM [3'-0"] AND 1100MM [3'-7"] AFF., AND 600MM [2'-0"] TO 1500MM [5'-0"] BEYON DOOR WHERE THE DOOR OPENS TOWARD THE CONTROL.

SEISMIC PROTECTION

CONTRACTOR TO PROVIDE FOR ENGINEERED DESIGN AND INSTALLATION OF SEISMIC CONSTRAINTS AS PER PROVIDE DOCUMENTATION TO SATISFY AUTHORITY.



OVIDE SEPARATE GREEN EL BOARDS, SPLITTERS.	<u>FIRE ALARM SYSTEM:</u> CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUIT, WIRE, FIRE PANEL, INITIATING DEVICES AND ALARM DEVICES FOR A FULLY FUNCTIONING SYSTEM AS PER THE ONTARIO BUILDING CODE, ONTARIO ELECTRICAL SAFETY CODE, FIRE CODE, AND CAN/ULC S524M.	
	CONNECT THE ZONES AS FOLLOWS: EACH FLOOR IS ITS OWN ZONE (3)	DETAIL
	THE OPEN ASSEMBLY SPACE (ROOM 10) IS ITS OWN ZONE (1) EACH STAIR IS ITS OWN ZONE (2)	FA1
S. (SEE MECHANICAL	THE ELECTRICAL ROOM (ROOM 26) IS ITS OWN ZONE (1) THE BASEMENT FURNACE IS ITS OWN ZONE (1) THE FURNACE ROOM (ROOM 28) IS ITS OWN ZONE (1)	
TEEL CONSTRUCTION WITH	CONTRACTOR TO ENSURE FOLLOWING MINIMUM SOUND LEVELS ARE ATTAINED:	
	75 DBA. (MIN.) IN ALL SLEEPING ROOMS WITH INTERVENING DOORS CLOSED.	
DN ALL AROUND.	10 DBA. ABOVE AMBIENT (65 DBA. MIN.) IN ALL OTHER AREAS.	DETAIL
90 DEG. BEND SHALL EQUATE	SUPPLY DEDICATED POWER CIRCUITS TO ALARM PANEL.	EXIT1
	ALL FIRE-RATED DOORS WITH POWER DOOR OPERATORS SHALL BE TESTED TO ENSURE THAT THE HOLD-OPEN PERIOD IS LESS THAN 10 SECONDS OR THE DOOR SHALL BE CONNECTED TO THE FIRE ALARM TO DE-ENERGIZE UPON ACTIVATION OF THE ALARM.	EXIT2
T SWITCHES & 30A. 600 VOLT	MANUAL PULL STATIONS: PULL STATIONS SHALL BE MOUNTED ON THE LATCH SIDE OF EXIT DOORS AT A HEIGHT OF 4'- 0" [1200 MM.] AFF AND NO MORE THAN 5'-0" (4500 MM.) FOOD FOOD	EL1
	[1500 MM.] FROM EDGE OF DOOR	EL2
	FIRE HORNS / STROBES: ULC AUDIBLE SIGNAL DEVICE TO BE NOT LESS THAN 7'-6" [2300MM.] ABOVE FINISHED FLOOR AND AT LEAST 6" [150MM.] BELOW CEILING	EL3
	MEASURED FROM TOP OF DEVICE. SMOKE DETECTOR:	EL4
	ALL SMOKE DETECTORS SHALL BE CEILING MOUNTED AND AT LEAST 4" [100MM.] FROM WALL.	
IG COVER PLATES:	HEAT DETECTOR: ALL HEAT DETECTORS SHALL BE CEILING MOUNTED AND AT LEAST 4" [100MM.] FROM WALL.	
AND FURTHER IDENTIFIED		DETAIL
		L1
OND THE SWING OF THE	PROFESSIONAL	L2
	49 PALLO 144 PAL	L3
PER OBC 4.1.8.18 AND	24/10/11 で こ C. R. VAN ALSTINE 第	

						EL	ECTRIC	HEATE	R SCHED	ULE							
DETAIL	DESCRIPTION	MANUF.	MOD	EL NO.	VOLTAG	E A	MPS.	LOC	ATION	COLOUR	UNIT	WATTS.	QTY.	GENERAL COMMEN	TS	тс	DTAL UNIT Kw.
FA1	FORCED AIR HEATER (160 Cfm.)	OUELLET	OAC	02000-T	240		8.3	ENTRANCE	VESTIBULE	WHITE	2	2000	1	c/w BUILT-IN TAMPER PROOF THERMOS	STAT		2.0
						EMERG	ENCY L	IGHT FI	XTURE SC	HEDULE							
DETAIL	DESCRIPTION	MANUF.	MODEL	CAT. NO.	MNTG.	WATTS	LAMPS	ТҮРЕ	DC VOLTS	AC VOLTS	MNTG. HEIGHT		GEN	ERAL COMMENTS	QTY	WATTS/ FIXT.	TOTAL WATTS
EXIT1	PICTOGRAM EXIT SIGN - SINGLE FACE	LUMACELL	LS SERIES	LS1WS	WALL	2.5	1	LED	N/A	120	8' AFF			TO MEET ISO 3864 - 1 (GREEN RUNNING 41 - 10 (SELF POWERED MIN. 2HRS.)	2	2.5	5
EXIT2	PICTOGRAM EXIT SIGN - DOUBLE FACE	LUMACELL	LS SERIES	LS2WS	WALL	2.5	1	LED	N/A	120	8' AFF			TO MEET ISO 3864 - 1 (GREEN RUNNING 41 - 10 (SELF POWERED MIN. 2HRS.)	8	2.5	20
EL1	SINGLE REMOTE HEAD EMERGENCY LIGHT	EMERGI-LITE	EF9 SERIES	EF9M-LG	WALL	4	1	LED	12	N/A	7' AFF		TI	LT HEADS @ 45°	7	4	28
EL2	DOUBLE REMOTE HEAD EMERGENCY LIGHT	EMERGI-LITE	EF9 SERIES	EF9DM-LG	WALL	4	2	LED	12	N/A	7' AFF		TI	LT HEADS @ 45°	12	8	96
EL3	BATTERY PACK EMERGENCY LIGHT	EMERGI-LITE	ESL SERIES	12ESL36/2-LG	WALL	4	2	LED	12	120	7' AFF		т	LT HEADS @ 45°	2	8	16
EL4	BATTERY PACK EMERGENCY LIGHT	EMERGI-LITE	ESL SERIES	12ESL100/2-LG	WALL	4	2	LED	12	120	7' AFF		TI	LT HEADS @ 45°	1	8	8
										I					TOTAL LC	DAD (WATTS)	165
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						INTER			TURE SCH	EDULE							

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ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY	Α	2024-08-30	PRELIMINARY FOR ARCHITECT AND CLIENT REVIEW	AJ	CH'D. D DE GROOT		DATE .	SCALE AS NOTED	SHEET 9 OF 13		DWG. NO.		
ERROR OR OMISSION IMPUTABLE TO THIS LACK OF PRECAUTION. DO NOT SCALE THE DRAWINGS.	REV.	DATE	DESCRIPTION	INIT.	APP'D. C VAN ALSTINE		DATE .	CONTINUED ON SHEET NO.	E2			EI	U

MANUFACTURER

CANARM

CANARM

MATCH EXISTING

DESCRIPTION

12" CEILING LIGHT FIXTURE

48" LED SHOP LIGHT

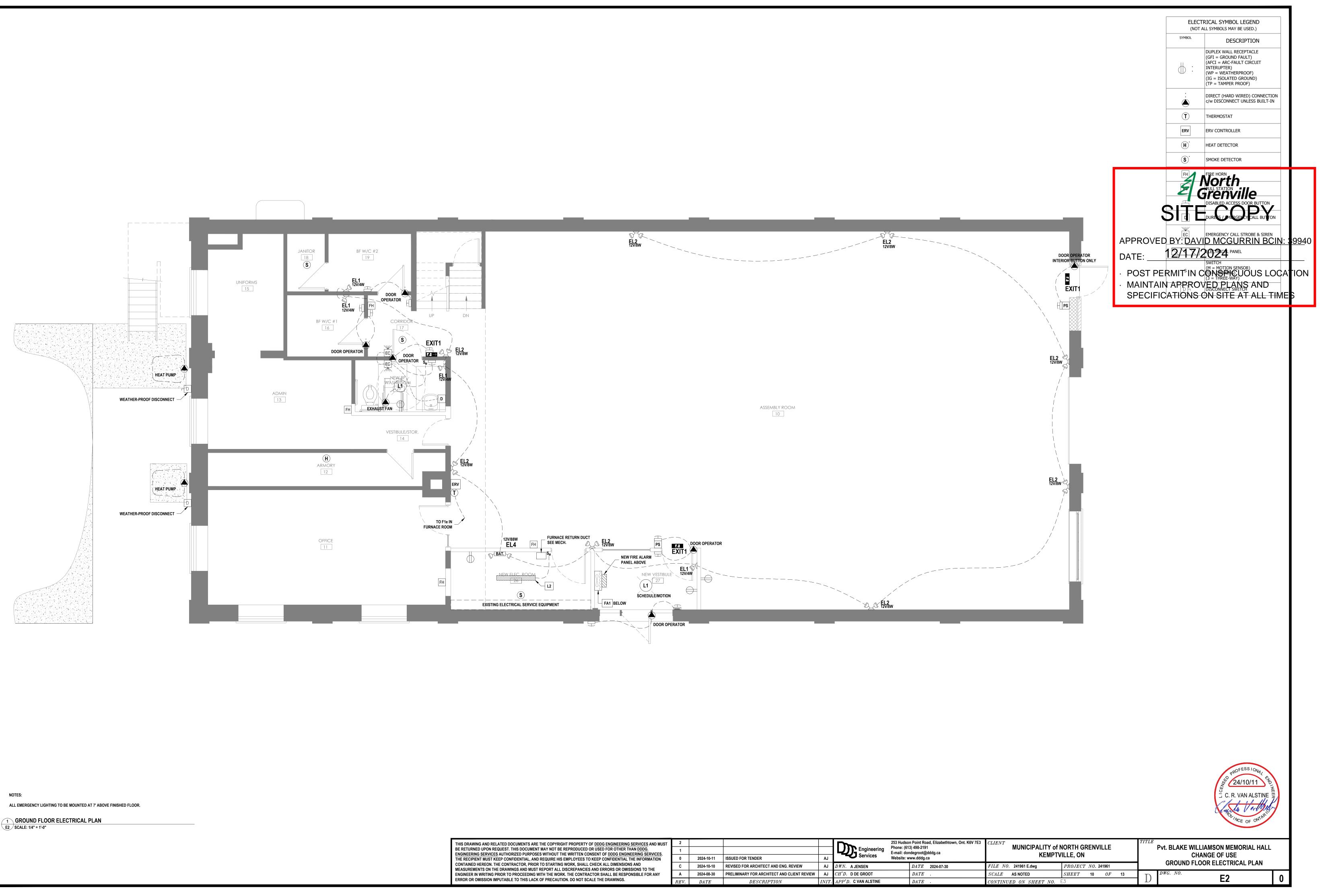
OVERHEAD LIGHT

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ELECTRICAL SYMBOL LICENNORTH (NOT ALL SYMBOL MAY BELLED NORTH SYMBOL         DUPLISAL KORTHALE         OUPLISAL KORTHALE <tr< th=""><th></th><th>0"</th><th> 15</th><th> <i>f</i></th><th> </th><th> 30'-0"</th></tr<>		0"	15	<i>f</i>	 	30'-0"
DUPLICATION         Disabled access door button						
BUPLICE LIKETTINE     CONTINUED FOR THE FOR THE STATE OF T						
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GFI ■ Sould p Fluit citeur         Interupter         INTERUPTER         (WP = WEATHERPROOF)         (WP = WEATHERPROOF)         (BT = ISOLATE GROUND)         APPROVETD*BY**DAVID MCG         DATE:         DIRECT+100/MET/100E00000         APPROVETD*BY**DAVID MCG         DATE:         DIRECT+100/MET/100E00000         APPROVED         POST         PEPRIMIT IN CONSPIC         MAINTEALDITABERROVED PLA         SPECIFICATIONS ON SITE         (H)         HEAT DETECTOR         (FH)         FIRE HORN         PS         PULL STATION         DISABLED ACCESS DOOR BUTTON	ville	DESCRIPTI GIENV	SYMBOL			
(IG = ISOLATED GROUND) APPROVEDINGY BY BAVID MCG DATE: DIRECT HAD MET 20124 OBJECT HA	OPY	GFI = GROUID F. ULT AFCI ADC-AULT CIFCUIT NTERUPTER)				
POST IPERMIT IN CONSPICE     PLA     SPECIFICATIONS ON SITE     H     FICATIONS ON SITE     H     FICE	URRIN BCIN: 3994	IG = ISOLATED GROUND)				
• MAIN FAIN FAIN FROVED PLA SPEC IFICATIONS ON SITE (H) FICATIONS ON SITE (S) SMOKE DETECTOR FH FIRE HORN PS PULL STATION IDSABLED ACCESS DOOR BUTTON		DIRECT HARD WIRET CONFITINA	DÆTE:			
SPEC IFICATIONS ON SITE   HEAT DETECTOR   S'   SMOKE DETECTOR   FH   FIRE HORN   PS   PULL STATION   DISABLED ACCESS DOOR BUTTON	ICUOUS LOCATION	PERMIT IN CONSPIC	· POST			
S       SMOKE DETECTOR         FH       FIRE HORN         PS       PULL STATION         Image: Stabled Access door button						
FH       FIRE HORN         PS       PULL STATION         Image: Disabled access door button		FICATIONS ON SITE A				
PS     PULL STATION       Image: Disabled Access door button		SMOKE DETECTOR	<u>s</u>			
DISABLED ACCESS DOOR BUTTON		TRE HORN	FH			
		ULL STATION	PS			
D DURESS / EMERGENCY CALL BUTTON		DISABLED ACCESS DOOR BUTTON				
		DURESS / EMERGENCY CALL BUTTON				
EC EMERGENCY CALL STROBE & SIREN		MERGENCY CALL STROBE & SIREN	EC			
ELECTRICAL PANEL						
S SWITCH (M = MOTION SENSOR) (D = DIMMING) (3 = THREE-WAY)		M = MOTION SENSOR) D = DIMMING)	S			
D D DISCONNECT SWITCH		DISCONNECT SWITCH				

					-			
MODEL	CAT. NO.	MNTG.	WATTS	TYPE	VOLTS	HEIGHT	GENERAL COMMENTS	QUANTITY
CLIP FLUSH MOUNT	IFM1612BPT	SURFACE	18	LED	120	CEILING	c/w PHILIPS 9W A-SHAPE LED BULB (x2)	2
LED WRAP LIGHT	LW48A40	SURFACE	40	LED	120	CEILING	CONTROLLED BY SWITCH	3
MATCH EXISTING	MATCH EXISTING	SURFACE	MA	TCH EXISTING		CEILING	WIRED TO OTHER CEILING LIGHTS	2

## E2 SCALE: 1/4" = 1'-0"



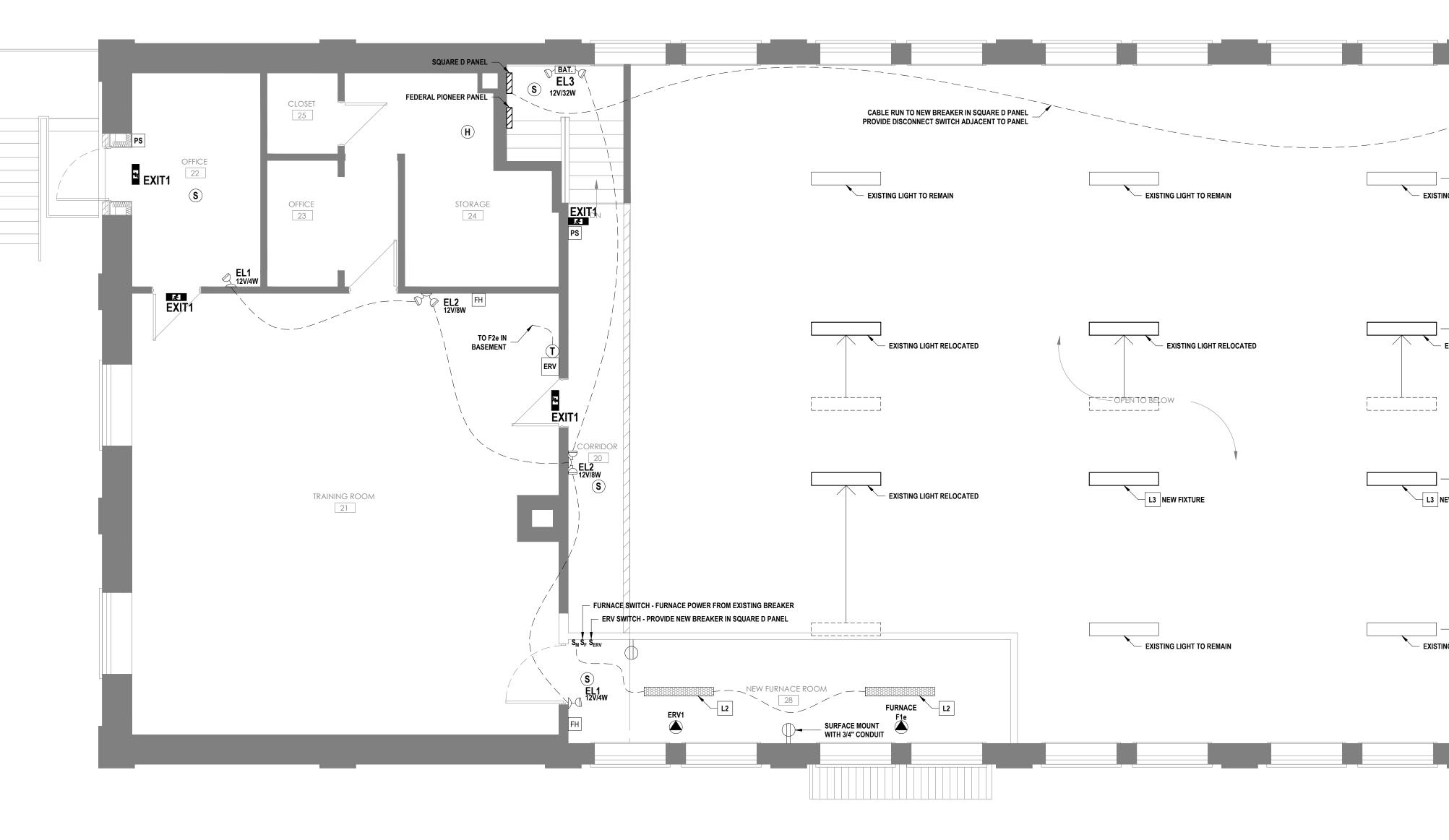


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THE RECIPIENT MUST KEEP CONFIDENTIAL, AND REQUIRE HIS EMPLOYEES TO KEEP CONFIDENTIAL THE INFORMATION	0	2024-10-11	ISSUED FOR TENDER	AJ	Services	Website: w	/w\
CONTAINED HEREON. THE CONTRACTOR, PRIOR TO STARTING WORK, SHALL CHECK ALL DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS AND MUST REPORT ALL DISCREPANCIES AND ERRORS OR OMISSIONS TO THE	С	2024-10-10	REVISED FOR ARCHITECT AND ENG. REVIEW	AJ	DWN. A JENSEN		1
ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY	Α	2024-08-30	PRELIMINARY FOR ARCHITECT AND CLIENT REVIEW	AJ	CH'D. D DE GROOT		
ERROR OR OMISSION IMPUTABLE TO THIS LACK OF PRECAUTION. DO NOT SCALE THE DRAWINGS.	REV.	DATE	DESCRIPTION	INIT.	APP'D. C VAN ALSTINE		

1 SECOND FLOOR ELECTRICAL PLAN E3 SCALE: 1/4" = 1'-0"

1. ASSEMBLY ROOM LIGHTING IS BEING RECONFIGURED TO ACCOMODATE NEW CENTRAL HVAC DUCTING.

NOTES:



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THE RECIPIENT MUST KEEP CONFIDENTIAL, AND REQUIRE HIS EMPLOYEES TO KEEP CONFIDENTIAL THE INFORMATION	0	2024-10-11	ISSUED FOR TENDER	AJ	Services		ww.dddg.ca
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ERROR OR OMISSION IMPUTABLE TO THIS LACK OF PRECAUTION. DO NOT SCALE THE DRAWINGS.	REV.	DATE	DESCRIPTION	INIT.	APP'D. C VAN ALSTINE		DATE .

						TRICAL SYMBOL LEGEND		
					SYMBOL	DESCRIPTION DUPLEX WALL RECEPTACLE (GFI = GROUND FAULT)		
					⊕ :	(AFCI = ARC-FAULT CIRCUIT INTERUPTER) (WP = WEATHERPROOF) (IG = ISOLATED GROUND) (TP = TAMPER PROOF)		
						DIRECT (HARD WIRED) CONNECT c/w DISCONNECT UNLESS BUILT-	TON IN	
					Ū.	THERMOSTAT		
					ERV	ERV CONTROLLER		
					(H) <sup>.</sup>	HEAT DETECTOR		
					S.			_
						North Grenville DISABLED ACCESS DOOR BUTTON		
						DURESS / UMERGENCY CALL BUT		
			APP	ROVE		EMERGENCY CALL STROBE & SIRE	<sup>∾</sup> CIN: 399	<u>94</u> 0
UNIT HEATER UH1				E:		SWITCH		_
			· PC	OST PE	ERMIT <sup>S</sup> IN		OCATIO	ЛС
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2024-07-30	FILE NO. 241961 E.dwg	PROJECT NO. 241961		Ļ_,	SECOND FL	OOR ELECTRICAL PLAN		
	SCALE AS NOTED CONTINUED ON SHEET NO	<i>SHEET</i> 11 <i>OF</i>	13	$\mathbb{D}$	DWG. NO.	E3	0	

### ALL MATERIALS (PIPING AND ASSOCIATED COMPONENTS, ADHESIVES, INSULATIONS) SHALL BE LISTED FOR THE APPLICATION AND CONFORM TO OBC AND LOCAL FIRE SAFETY REQUIREMENTS FOR SMOKE AND FLAME DEVELOPMENT IN THE INSTALLED ORIENTATION. ALL SYSTEMS MUST BE TESTED AND INSPECTED (BY AHJ) BEFORE INSULATION, BACKFILL, OR CONCEALMENT. OPENINGS MADE IN FIRE-RATED ASSEMBLIES TO ACCOMMODATE INSTALLATION MUST BE REINSTATED, FIRE-STOPPED, OR FITTED WITH A LISTED ENCLOSURE. PROVIDE HANGERS INSERTS, SLEEVES AND SUPPORTS AS REQUIRED/PRESCRIBED BY APPLICABLE CODES. WHEREVER ANY BASE BUILDING EQUIPMENT REQUIRES ACCESSIBILITY, MAINTENANCE OR ADJUSTMENT, PROVIDE ACCESS DOORS APPROVED BY ARCHITECT AND OWNER. PLUMBING SCOPE OF WORK: SUPPLY AND INSTALL ALL MATERIALS, EQUIPMENT AND LABOUR TO INSTALL, CONSTRUCT AND COMMISSION THE FOLLOWING FULLY FUNCTIONING SYSTEMS AS DESCRIBED ON DRAWINGS. 1. PROVIDE ALL FIXTURES WITHIN THE BARRIER-FREE WASHROOM (ROOM 29) 2. ALL DOMESTIC COLD WATER PIPING FOR NEW BARRIER-FREE WASHROOM (ROOM 29) 3. ALL DOMESTIC HOT WATER PIPING FOR NEW BARRIER-FREE WASHROOM (ROOM 29) 4. ALL SANITARY DRAINS AND VENTS FOR NEW BARRIER-FREE WASHROOM (ROOM 29). 5. PIPE INSULATION 6. TRAP SEAL PRIMERS 7. FIRESTOPPING AT PENETRATIONS OF FIRE SEPARATIONS ALL EXCAVATING, BACKFILLING, AND REINSTATEMENT OF CONCRETE RELATED TO THE PLUMBING WORK IS THE RESPONSIBILITY OF CONTRACTOR.

### PIPE INSULATION:

EXPOSED HOT PIPING IN ACCESSIBLE AREAS MUST BE INSULATED TO PROTECT AGAINST BURNS FROM INCIDENTAL CONTACT.

### FIXTURES: ALL PLUMBING FIXTURES TO BE WHITE, FREE FROM BLEMISHES, WITH STRAIGHT SURFACES AND FULL GUARANTEE AGAINST WARPING, CRACKING, DISCOLOURING, ETC.

ALL EXPOSED PIPING, VALVES, TRAPS, FITTINGS, ETC. SHALL BE HEAVILY CHROME PLATED BRASS, UNLESS OTHERWISE NOTED.

### DOMESTIC PIPES: POTABLE WATER TUBING:

LEAD FREE CROSS-LINKED POLYETHYLENE TUBING USED FOR POTABLE WATER APPLICATIONS WITHOUT AN OXYGEN BARRIER. MAXIMUM WORKING PRESSURE:

### • 160PSI (11 BAR) @ 73.4°F (23°C) • 100PSI (6.9 BAR) @ 180°F (80°C)

80PSI (5.5 BAR) @ 200°F (93°C)

SYSTEM SHALL BE PLUMBED USING CROSS-LINKED POLYETHYLENE PIPE, AND ALL JOINTS SHALL BE MADE USING BRASS CRIMP RING AND/OR POLY-ALLOY CRIMP RING FITTINGS USING EITHER COPPER CRIMP RING OR STAINLESS STEEL CLAMPS. CRIMPING METHODS SHALL BE AS OUTLINED IN MANUFACTURERS INSTALLATION GUIDELINES.

### PIPES 1" AND GREATER DIAMETER TO BE TYPE-L COPPER WITH SOLDERED JOINTS.

APPROVALS:

- MANUFACTURED IN ACCORDANCE WITH AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM INTERNATIONAL) F876 AND
- F877 TO SDR-9 DIMENSIONAL STANDARDS • LISTED BY THE NSF INTERNATIONAL TO NSF STANDARDS 14 AND 61 FOR USE IN POTABLE WATER SYSTEMS
- LISTED BY NSF INTERNATIONAL TO BE IN COMPLIANT TO THE UNIFORM PLUMBING CODE
- LABELLED B137.5 WHICH INDICATES THAT IT IS COMPLIANT TO THE CSA STANDARDS B137.5 ASTM E84 AND CAN/ULC S102.2 SMOKE DEVELOPED AND FLAME SPREAD CLASSIFICATION
- FIRE RESISTANCE PER CAN/ULC S101 AND ASTM E119-08

- INSTALLATION: • PLASTIC WATER PIPE IS SUPPORTED AT INTERVALS NOT TO EXCEED 1M.
- WALL STUBS FOR VALVE AND FIXTURE CONNECTIONS SHALL BE COPPER TUBE WITH MOUNTING PLATE.
- INDIVIDUAL FIXTURES MAY BE SUPPLIED BY A 1/2" PEX TUBE. • FOLLOW OBC PLUMBING CODE GUIDANCE RESTRICTING USE OF PLASTIC PIPE NEAR THE WATER HEATER, IN PLENUM SPACES,
- AND FIRE-STOPPING AT PENETRATIONS OF FIRE-RATED ASSEMBLIES. USE OF PLASTIC PIPING DOES NOT REMOVE THE REQUIREMENT FOR INSULATION FOR ENERGY CONSERVATION AND TO MITIGATE CONDENSATION.

### TYPE "K" COPPER FOR BURIED PIPE.

TYPE "L" COPPER WITH CAST OR WROUGHT COPPER SOLDER-JOINT PRESSURE FITTINGS FOR INSIDE AND EXPOSED PIPE, WITH SUPPORT EVERY 1.8M [6'-0"] MAXIMUM.

### DOMESTIC WATER PIPE SIZES BASED ON:

 INCOMING WATER SERVICE PRESSURE: 311 TO 413 kPa (46 TO 60 PSI) MAX. ALLOWABLE LENGTH: 61 M (200')

### COVER ALL WATER RE-CIRCULATION PIPING AND DOMESTIC MAINS WITH (1/2" ON COLD & 1" ON HOT) CLOSED CELL ELASTOMERIC INSULATION CONFORMING TO CAN/ULC S102. EXPOSED HOT PIPING INCLUDING DRAINS IN ACCESSIBLE AREAS MUST BE INSULATED

TO PROTECT AGAINST BURNS FROM INCIDENTAL CONTACT.

PROVISION FOR PROTECTION FROM WATER HAMMER AS PER OBC SECTION 7.6.1.14.

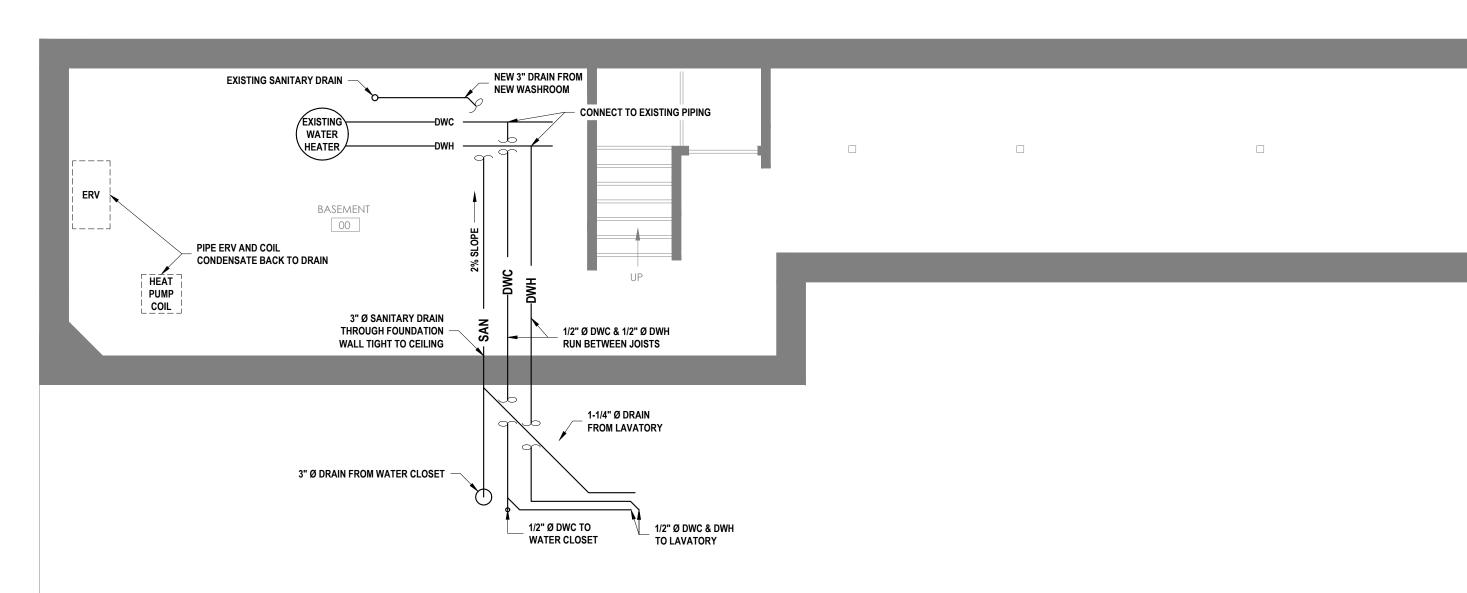
### DRAIN PIPES:

INSTALL SDR 35 PLASTIC GASKET BELL SEWER PIPE UNDER CONCRETE SLAB. DRAIN PIPES SHALL BE ABS-DWV PIPE. USE COPPER OR RATED PIPE IN PLENUM SPACES IN SIZES INDICATED ON DRAWINGS.

VENTING: DRAINAGE SYSTEM VENTING IS TO CONFORM TO SECTION 7.5 OF OBC & IS NOT SHOWN.

VENT PIPES SHALL BE ABS-DWV PIPE. USE COPPER OR RATED PIPE IN PLENUM SPACES.

**1** BASEMENT PLUMBING PLAN P1 SCALE: 1/4" = 1'-0"



REFER ALSO TO GENERAL SPECIFICATIONS ON SHEET A0.

INSTALLATION OF PLUMBING SERVICES AND SYSTEMS MUST CONFORM TO ONTARIO BUILDING CODE (OBC) AND APPLICABLE

BY-LAWS.

DETAIL	QTY	FIXTURE	TRAP	WASTE SIZE	VENT SIZE	C.W.	H.W.	DESCRIPTION
1	1	WATER CLOSET	INTERNAL	3"	2"	1/2"	N/A	AMERICAN STANDARD "CADET ELONGATED 16" (406mm.) HIGH #AF-2216.143F "AQUA-LITE" BARRIER FREE TOILET. VITREOUS CHINA ELONGATED SIPHON JET ACTION BOWL AND LINED TANK COMPLETE. 2.9 GAL. (13L.) FLUSH WITH LARGE CAST RIB FOR CHINA-TO-CHINA TANK ASSEMBLY AND SPLASH BLOCK. CONCEALED TRAPWAY AND WITH FLANGE BOLTS, BOLT CAPS, FLOOR FLANGE AND GASKET. TECK #47T316 SUPPLY, C.P. RIGID HORIZONTAL WITH ANGLE STOP, ESCUTCHEON AND FLEXIBLE RISER. CENTOCO #820STCC SEAT, ELONGATED HEAVY DUTY SOLID PLASTIC OPEN FRONT WITH COVER, CHECK HINGES AND CHROMATED STEEL POSTS, WASHERS AND NUTS FOR PUBLIC USE. (INSTALL IN ACCORDANCE WITH OBC. SECTION 3.8)
2	1	BARRIER FREE LAVATORY	1 1/4"	1 1/4"	1 1/4"	1/2"	1/2"	TOTO PROMINENCE #LT242.4G, 26" x 21 1/2" WALL MOUNTED LAVATORY SINK, VITREOUS CHINA WITH OVERFLOW DRAIN, 4" CENTER SET, COLOUR: COLONIAL WHITE
	WASHROOM		L IN ACCORDANCE	E TO LATEST VERSIO	ON OF OBC. SECTION	3.8)		
DETAIL QTY.			DE	ESCRIPTION		·		
A	FROST CODE 622 SUF	RFACE MOUNT NAPKIN DISPOS	SAL. TYPE 304 STAINLF	ESS STEEL CONSTRUCTIO	JN WITH A NO. 4 BRUSHED	, FINISH.		
В	FROST CODE 303-3 W	VALL MOUNTED WASTE RECEP	PTACLE. STAINLESS ST	(EEL TYPE 304 No. 4 FINISH	H WITH LINER. CAPACITY 5	50 Ltrs. (11 Gal.)		
с		ANK TYPE LIQUID SOAP DISPE 1.2 Kg. (40 oz.) ALL LOCKS ARE			TEEL BODY WITH LUCITE	SOAP LEVEL INDICATOR		
D		LTI - ROLL TOILET TISSUE DISF ARE TO BE KEYED ALIKE.	PENSER WITH TUMBLE	R LOCK. TYPE 304 STAINL	ESS STEEL CONSTRUCTIO	ON WITH A NO. 4 BRUSHED		
E		36FT VANDAL RESISTANT FIXED WITH SHOCK RESISTANT PRIN		.(18")x914mm.(36") 24ga. ST	FAINLESS STEEL FRAME. F	FULL GALVANIZED BACK		
F		" (300 mm.) STAINLESS STEEL ULL 360 DEGREE BEAD WELD				) FLANGE IS 12 GAUGE		
G		" (600 mm.) STAINLESS STEEL ULL 360 DEGREE BEAD WELD				) FLANGE IS 12 GAUGE		
н		)" (760 mm.) x 30" (760 MM.) STA VITH A FULL 360 DEGREE BEAD				INISH. STAMPED FLANGE IS 1	.2	
I	FROST CODE 1150 AL	LL STAINLESS STEEL TYPE 304	4 #4 FINISH. SPRING LO	JADED HOOK WILL SUPPO	RT A MAX. WEIGHT OF 11	Kg. (25 Lbs.)		
J		IP DOWN HIGH DENSITY POLY BUILT IN LINER DISPENSER AN			OAD CAPACITY 250 Lbs. c/	/w CONCEALED PNEUMATIC		
К	MAX-ABILITY FOLDIN	IG ADULT CHANGE TABLE MOD	DEL # LI2403.190					
								PROFESSIONAL 24/10/11
AND MUST 2	$\overline{+}$				253 Hudson F gineering Phone: (613)	n Point Road, Elizabethtown, O 3) 498-2191	nt. K6V 7E3	CLIENT MUNICIPALITY of NORTH GRENVILLE TITLE Pvt. BLAKE WILLIAMSON MEMORIAL HALI
VICES.						ndegroot@dddg.ca		KEMPTVILLE. ON CHANGE OF USE

DETAIL	QTY	FIXTURE	TRAP	WASTE SIZE	VENT SIZE	C.W.	H.W.	DESCRIPTION
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	WASHROOM A		L IN ACCORDANCE	TO LATEST VERSIO	N OF OBC. SECTION 3	.8)		
DETAIL QTY.			DE	SCRIPTION				
A		FACE MOUNT NAPKIN DISPO						
В		ALL MOUNTED WASTE RECEP				. ,		
С		NK TYPE LIQUID SOAP DISPE .2 Kg. (40 oz.) ALL LOCKS AR			TEEL BODY WITH LUCITE	SOAP LEVEL INDICATOR		
D	FROST CODE 165 MULT FINISH. ALL LOCKS AR	TI - ROLL TOILET TISSUE DISI RE TO BE KEYED ALIKE.	PENSER WITH TUMBLEI	R LOCK. TYPE 304 STAINL	ESS STEEL CONSTRUCTION	N WITH A NO. 4 BRUSHED		
E		FT VANDAL RESISTANT FIXE NITH SHOCK RESISTANT PRIM		(18")x914mm.(36") 24ga. S⊺	TAINLESS STEEL FRAME. F	ULL GALVANIZED BACK		
F	STAINLESS WITH A FU	(300 mm.) STAINLESS STEEL JLL 360 DEGREE BEAD WELD	TO THE 18 GAUGE STA	AINLÉSS TUBING. CONCEAI	LED MOUNTING.			
G		(600 mm.) STAINLESS STEEL ILL 360 DEGREE BEAD WELD				FLANGE IS 12 GAUGE		
н		(760 mm.) x 30" (760 MM.) STA ITH A FULL 360 DEGREE BEAI				VISH. STAMPED FLANGE	5 12	
I	FROST CODE 1150 ALL	L STAINLESS STEEL TYPE 304	4 #4 FINISH. SPRING LO	ADED HOOK WILL SUPPOR	RT A MAX. WEIGHT OF 11 K	ίg. (25 Lbs.)		
J		P DOWN HIGH DENSITY POLY BUILT IN LINER DISPENSER AN			OAD CAPACITY 250 Lbs. c/v	W CONCEALED PNEUMAT	C	
к	MAX-ABILITY FOLDING	ADULT CHANGE TABLE MOI	DEL # LI2403.190					
								SUPPROFESSIONAL SUPPROFESSIONA
AND MUST 2						Point Road, Elizabethtown,	Ont. K6V 7E3	CLIENT TITLE
RVICES.					gineering Phone: (613) 4 E-mail: donde	498-2191 legroot@dddg.ca		MUNICIPALITY of NORTH GRENVILLE Pvt. BLAKE WILLIAMSON MEMORIAL HA

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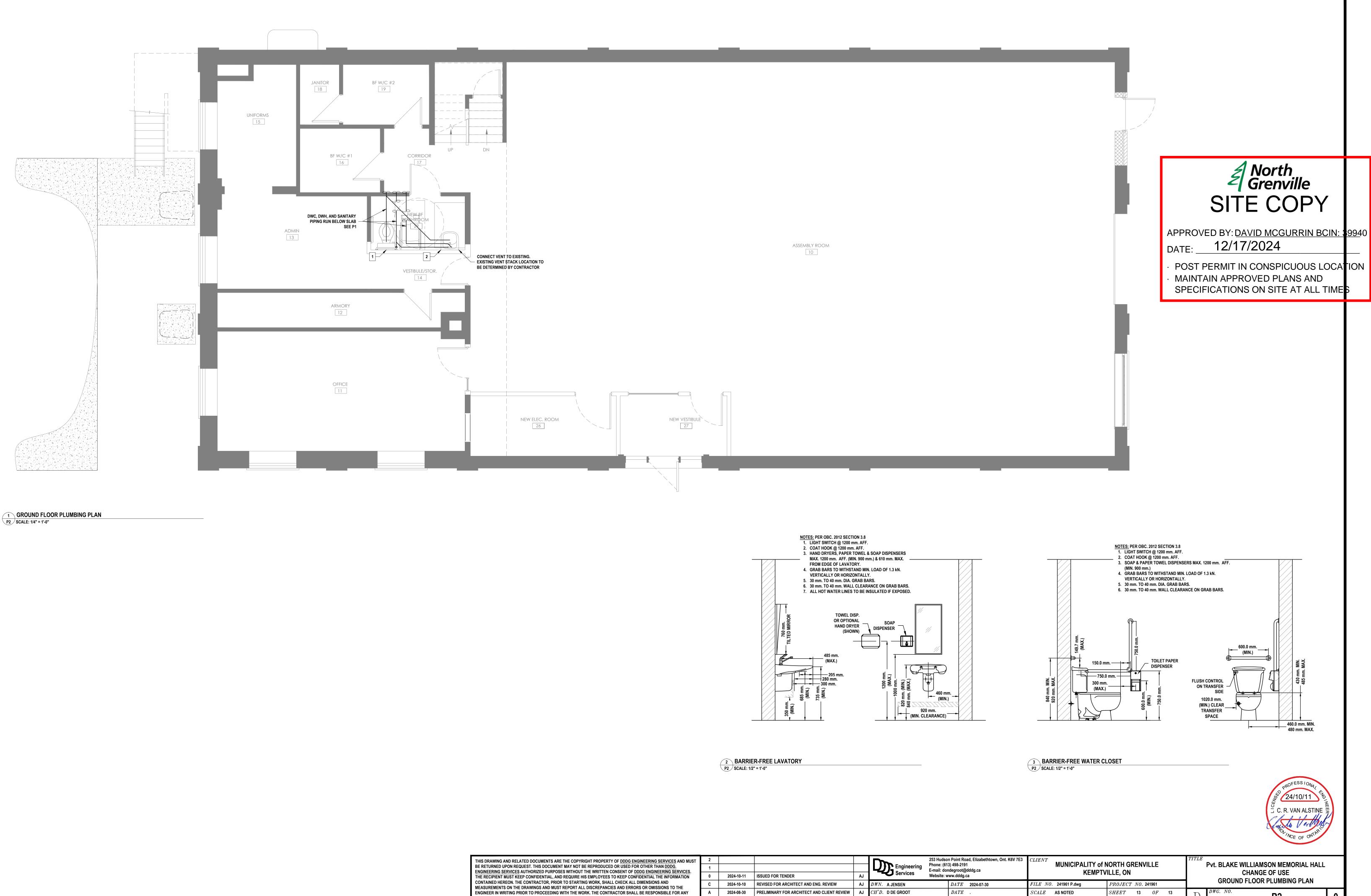


APPROVED BY: DAVID MCGURRIN BCIN: 39940 DATE: 12/17/2024

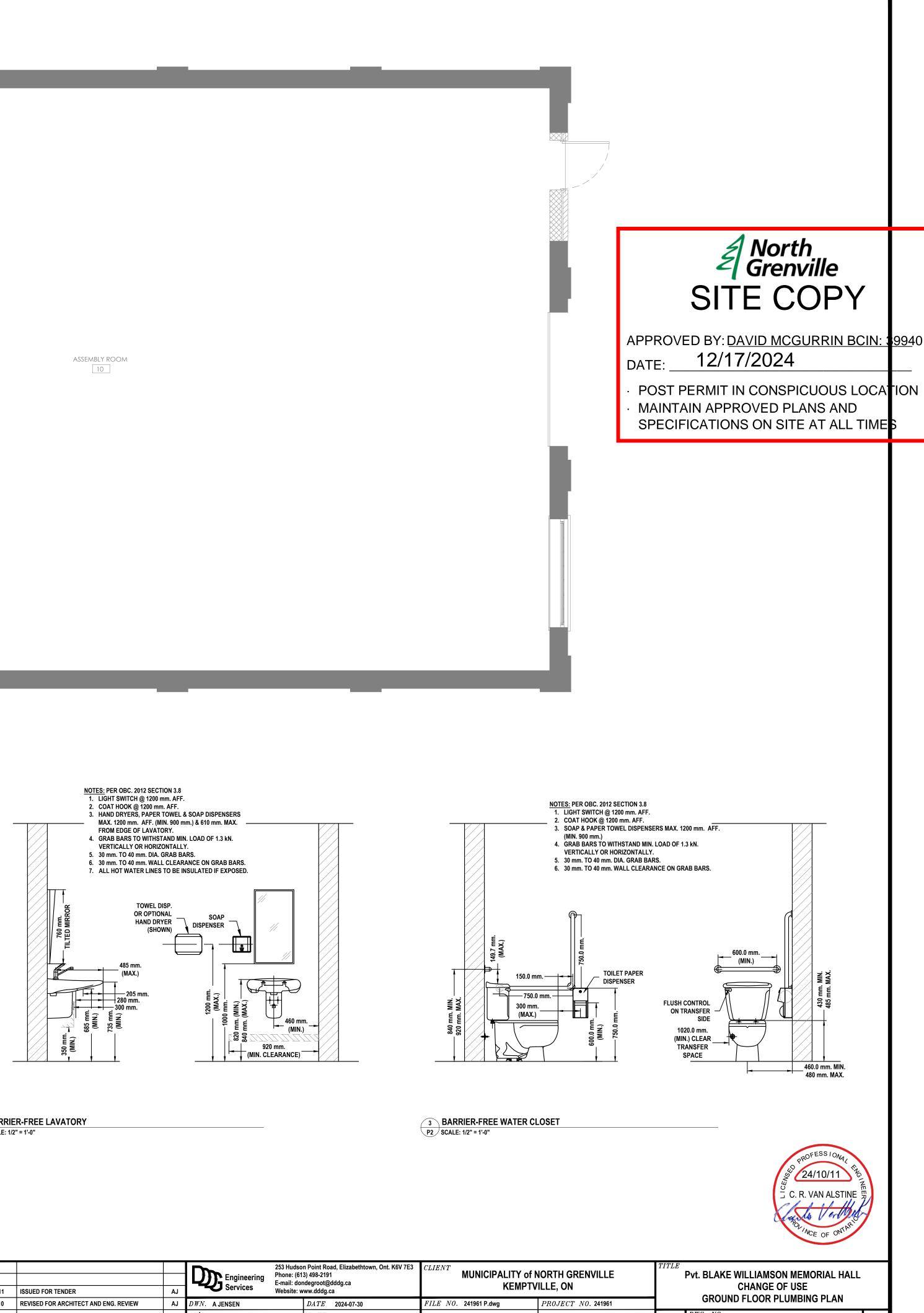
• POST PERMIT IN CONSPICUOUS LOCATION

- MAINTAIN APPROVED PLANS AND
- SPECIFICATIONS ON SITE AT ALL TIMES

### DI LIMPING EIVILIDE SCHEDULE FOR CONTINUATION (SEE SHEET M2)



P2 SCALE: 1/4" = 1'-0"



CONTINUED ON SHEET NO. --

DATE

**P2** 

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CONTAINED HEREON. THE CONTRACTOR, PRIOR TO STARTING WORK, SHALL CHECK ALL DIN MEASUREMENTS ON THE DRAWINGS AND MUST REPORT ALL DISCREPANCIES AND ERRORS		2024-10-10	REVISED FOR ARCHITECT AND ENG. REVIEW	AJ	DWN. A JENSEN		
ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL B	E RESPONSIBLE FOR ANY A	2024-08-30	PRELIMINARY FOR ARCHITECT AND CLIENT REVIEW	AJ	CH'D. D DE GROOT		
ERROR OR OMISSION IMPUTABLE TO THIS LACK OF PRECAUTION. DO NOT SCALE THE DRAW	INGS. REV.	DATE	DESCRIPTION	INIT.	APP'D. C VAN ALSTINE		