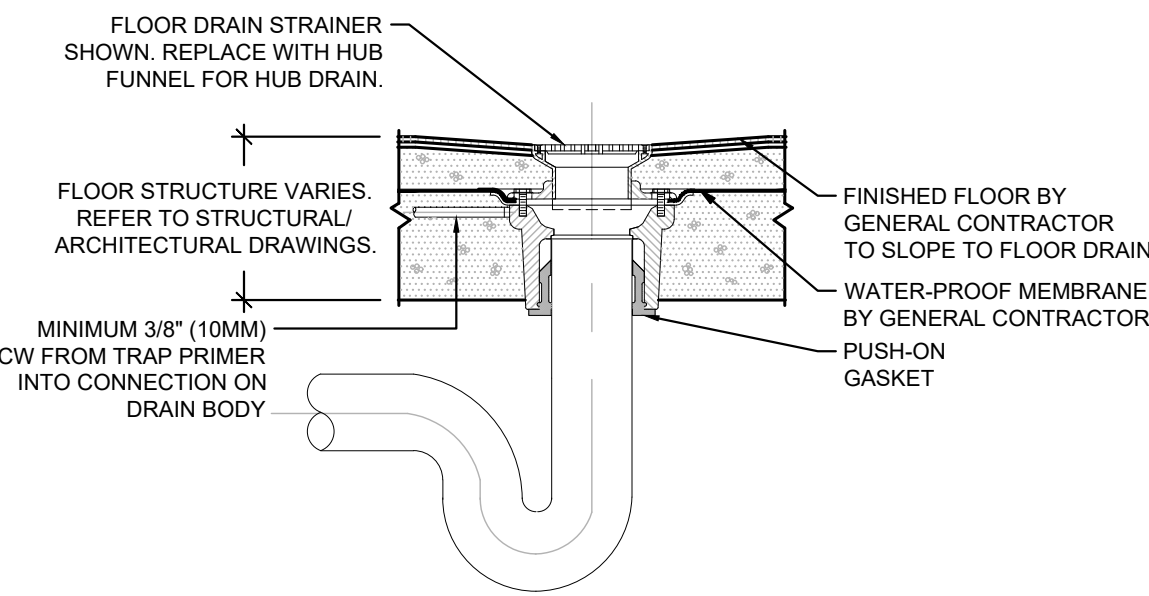


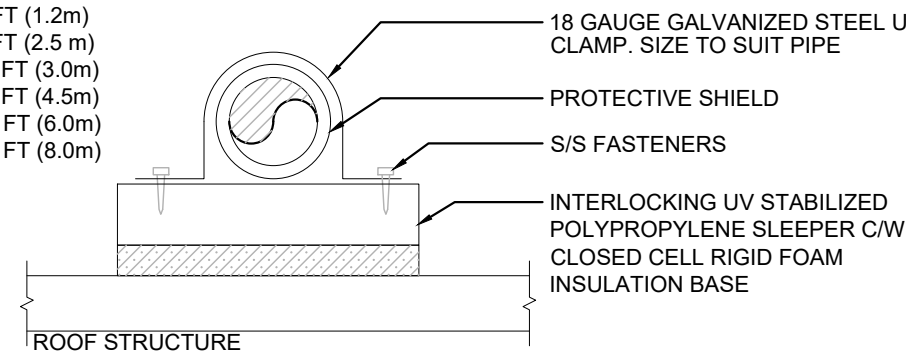
TRAP SEAL PRIMER VALVE DETAIL
SCALE: N.T.S.



FLOOR/HUB DRAIN INSTALLATION DETAIL
SCALE: N.T.S.

NOTES:

- PROVIDE EXTENSION KITS AS REQUIRED FOR ELEVATED PIPING
- PROVIDE SUPPORT AT EVERY FITTING
- PROVIDE ACCOMMODATION FOR PIPE MOVEMENT DUE TO EXPANSION/CONTRACTION AS REQUIRED
- ROOF PIPE HORIZONTAL SUPPORT SPACING, PER CSA B149 IS:
 LESS THAN 1" (25mm): 4 FT (1.2m)
 1" (25mm): 8 FT (2.5m)
 1-1/4" - 2-1/2" (32mm - 63mm): 10 FT (3.0m)
 3"-4" (75mm - 100mm): 15 FT (4.5m)
 5"-8" (125mm - 200mm): 20 FT (6.0m)
 10" (250mm) & LARGER: 25 FT (8.0m)



NATURAL GAS PIPE SUPPORT ON ROOF DETAIL
SCALE: N.T.S.

CONTROL NOTES:

EXHAUST FAN:
EF-101

OPERATING SEQUENCE:

- CYCLE FAN ON/OFF WITH LOCAL LIGHT.

PLUMBING FIXTURE SCHEDULE

DWG REF	DESCRIPTION	HOT	COLD	DRAIN
FD	FLOOR DRAIN- EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE CAST IRON (STANDARD) HUB FUNNEL, AND NO HUB (STANDARD) OUTLET. WATTS DRAINAGE - MODEL: FD-100-DD	---	---	3"
FPWH	WATTS HY-42 - NON-FREEZE WALL HYDRANT WITH BACKFLOW PREVENTER. SHALL BE EXPOSED TYPE, AUTOMATIC DRAINING, WITH VACUUM BREAKER BACKFLOW PREVENTOR, 3/4" HOSE THREAD, LOOSE TEE KEY.	---	3/4"	---

EXHAUST FAN SCHEDULE

DWG REF.	MANUF.	SERVING	MODEL	AIRFLOW [CFM] (L/s)	ESP [in. w.c.] (Pa)	MOTOR [HP]	RPM	SOUND [SONES]	ELECTRICAL [V / Ph / Hz]	CONTROL	ACCESSORIES	REMARKS
EF-101	GREENHECK	MECH ROOM	G-070-G	150 (71)	0.25 (62.2)	FHP	1300	1.5	120 / 1 / 60	LG	1.2.4	CONTROL WITH LOCAL THERMOSTAT

APPROVED MANUFACTURERS: GREENHECK, COOK, DELHI, PENN BARRY

ELECTRIC UNIT HEATER SCHEDULE

DWG REF	MANUF.	MODEL	CAPACITY [MBH] (kW)	AIRFLOW [CFM] (L/s)	MOTOR [HP]	RPM	ELECTRICAL			CONTROL	ACCESSORIES	REMARKS
							VOLT / PH / HZ	MCA	MOCP			
UH-101	MODINE	AMP090	31 (9.1)	550 (259.4)	-	-	208/1/60	--	-	T-24	--	TWO STAGE

ALTERNATE MANUFACTURERS: MODINE, RE-VERBER (BRANT RADIANT), REZNR, TRANE

CONTROL:
T-24: THERMOSTAT - 24V
T-120: THERMOSTAT - 120V

ACCESSORIES:
1) ROOF VENT
2) SIDEWALL VENT
3) SIDEWALL COMB. AIR INLET

4) CONCENTRIC SIDEWALL VENT / COMB. AIR
5) ROOF COMB. AIR INLET

GENERAL NOTES: (APPLICABLE TO ALL DRAWINGS)

- THESE DRAWINGS ARE AN INTEGRAL PART OF THE SPECIFICATIONS WHICH ACCOMPANY THEM.
- ALL MATERIALS AND WORKMANSHIP SHALL BE NEW UNLESS NOTED OTHERWISE, FREE OF DEFECTS, AND COMPLY WITH ALL APPLICABLE STANDARDS.
- ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE
- INSTALL PIPING TIGHT TO UNDERSIDE OF STRUCTURE UNLESS NOTED OTHERWISE.
- DO NOT SCALE DRAWINGS. OBTAIN ALL DIMENSIONS FROM EXISTING ARCHITECTURAL PLANS, SITE INSPECTIONS, AND MANUFACTURER'S SHOP DRAWINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED ASSEMBLIES.
- OPENINGS IN EXTERIOR WALLS AND ROOF ARE TO BE PROPERLY FLASHED AND MADE WEATHERPROOF.
- ALL ROOF FLASHING FOR CURBS & PENETRATIONS TO COMPLY WITH ROOF WARRANTOR'S REQUIREMENTS.
- ALL NECESSARY CUTTING / PATCHING FOR MECHANICAL WORK SHALL BE PROVIDED BY APPROPRIATE TRADE(S) AT CONTRACTOR'S EXPENSE UNLESS NOTED OTHERWISE.
- MAKE GOOD ALL BUILDING COMPONENTS DAMAGED BY WORK OF THIS TRADE TO THE CONSULTANT SATISFACTION.
- PROVIDE ALL SLEEVES, INSERTS AND HANGERS REQUIRED FOR THE WORK. TREAT ALL SLEEVES OR HOLES PIERCING ACOUSTICAL SEPARATIONS FOR INSTALLATIONS OF THIS DIVISION TO MAINTAIN ACOUSTICAL RATING. ALL GAPS SHALL BE PACKED WITH ACOUSTICAL INSULATION AND SEALED AT BOTH ENDS WITH ACOUSTICAL CAULKING. PATCH ALL OPENINGS AROUND INSTALLATIONS OF THIS DIVISION PIERCING FIRE OR SMOKE SEPARATIONS WITH AN APPROVED WATERTIGHT SMOKE AND FIRE STOP SEALANT.
- INSTALL ALL EQUIPMENT AND ASSOCIATED APPURTENANCES TO PROVIDE MAINTENANCE ACCESS. ALLOW FOR ALL ACCESS DOORS REQUIRED FOR EQUIPMENT INSTALLATIONS & SERVICE. ENSURE PROPER ACCESS DOOR SIZE, TYPE AND FIRE RATING.
- COORDINATE ALL WORK WITH OTHER TRADES AND SUPPLIERS/MANUFACTURERS TO AVOID INTERFERENCES AND CONFLICTS BETWEEN SERVICES. PLAN WORK WELL IN ADVANCE TO ELIMINATE INSTALLATION AND COORDINATE DIFFICULTIES. COOPERATE WITH OTHER TRADES ON SITE TO RESOLVE INTERFERENCES TO SATISFACTORILY COMPLETE THE PROJECT.
- DEBRIS WILL BE KEPT TO A MINIMUM. ON COMPLETION OF CONSTRUCTION AND PRIOR TO THE FINAL INSPECTION AND ACCEPTANCE BY THE OWNER, SITE SHALL BE CLEANED AND ALL SCRAP MATERIALS RESULTING FROM THE WORK SHALL BE REMOVED.
- PRIOR TO THE FINAL INSPECTION, ALL EQUIPMENT SHALL BE CLEANED. ALL CONSTRUCTION DUST AND DIRT SHALL BE REMOVED FROM INSTALLED EQUIPMENT AT THE END OF THE JOB.
- ALLOW FOR SCOPING OF EXISTING CONCEALED DRAINAGE PIPING TO VERIFY LOCATION & ROUTING.

DUCTWORK LEGEND

SYMBOL	DESCRIPTION
	DUCTWORK SHOWN DOUBLE LINE
	OPEN ENDED DUCT
	THERMOSTAT/TEMPERATURE SENSOR
	EXHAUST AIR
	SUPPLY AIR
	TIMECLOCK
	DUCT DOWN - POSITIVE / NEGATIVE PRESSURE
	DUCT UP - POSITIVE / NEGATIVE PRESSURE
	SUPPLY AIR GRILLE
	RETURN AIR GRILLE
	DRAWING NOTE TAG
	EQUIPMENT TAG
	EQUIPMENT TYPE
	EQUIPMENT NUMBER (REFER TO SCHEDULES FOR INFO)

THIS IS A STANDARD LEGEND. ALL SYMBOLS MAY NOT NECESSARILY BE USED ON DRAWINGS.

PIPING LEGEND

ITEM	DESCRIPTION
	NEW ITEM
	EXISTING ITEM TO REMAIN
	EXISTING ITEM TO BE REMOVED
	BELOW FLOOR PIPING
	POTABLE (DOMESTIC) COLD WATER (DCW)
	SANITARY DRAIN
	NATURAL GAS
	GATE VALVE
	BALL VALVE
	GLOBE VALVE
	THERMOSTATIC BALANCING VALVE
	GAS VALVE
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	PIPE CAP
	PIPE SINGLE LINE CUTOFF
	FLOOR CLEAN OUT
	WALL CLEAN OUT
	HOSE BIB
	FROST PROOF WALL HYDRANT
	FLOOR DRAIN, FFD; FUNNEL FLOOR DRAIN, FD; HUB DRAIN
	FIRE EXTINGUISHER
	NEW CONNECTION TO EXISTING

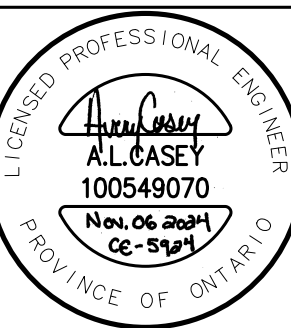
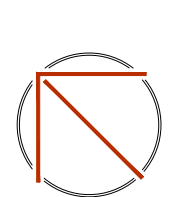
THIS IS A STANDARD LEGEND. ALL SYMBOLS MAY NOT NECESSARILY BE USED ON DRAWINGS.

KEYPLAN

REVISIONS

NO.	ISSUED FOR	DATE
00	90% COORDINATION	24.06.26
01	100% COORDINATION	24.10.15
02	PERMIT	24.11.07

NORTH



DESIGN	TMC	DRAWN	TMC
CHECKED	ALC	REVIEWED	ALC

PROJECT

STARBUCKS
COBOURG

ADDRESS

1030 DIVISION STREET,
COBOURG, ON

PROJECT NO.

CE-5924

DRAWING TITLE

MECHANICAL NOTES,
SCHEDULES, DETAILS

DRAWING NUMBER

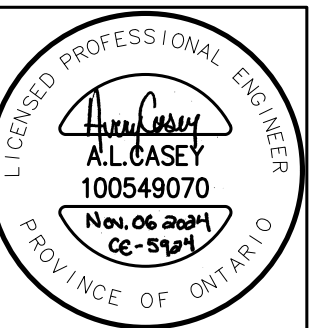
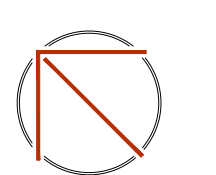
M1 OF 5

KEYPLAN

REVISIONS

NO.	ISSUED FOR	DATE
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01	100% COORDINATION	24.10.15
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NORTH



DESIGN	TMC	DRAWN	TMC
CHECKED	ALC	REVIEWED	ALC

PROJECT

STARBUCKS
COBOURG

ADDRESS

1030 DIVISION STREET,
COBOURG, ON

PROJECT NO.

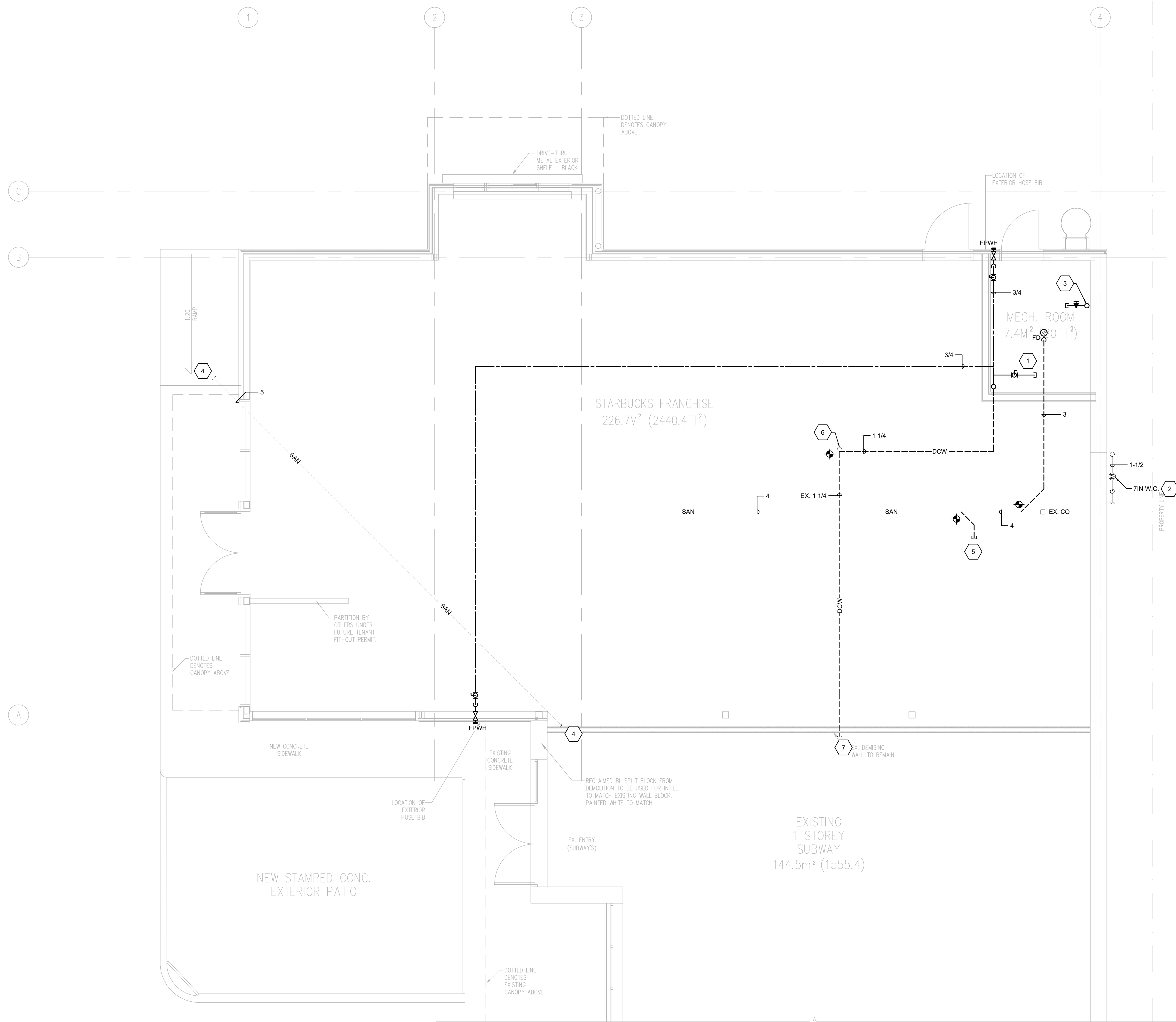
CE-5924

DRAWING TITLE

GROUND FLOOR PLAN -
PLUMBING

DRAWING NUMBER

M2 OF 5



GENERAL NOTES:

- THERMOSTATS MOUNTING HEIGHTS TO MATCH ADJACENT LIGHT SWITCHES OR AT 1200mm (48") FOR BARRIER FREE APPLICATIONS; 1500mm (60") OTHERWISE.

DRAWING NOTES (INDICATED BY HEXAGONS):

- CAP DOMESTIC WATER PIPE IN MECHANICAL ROOM FOR FUTURE TENANT USE.
- COORDINATE PROVISION OF NATURAL GAS METER AND REGULATOR BY NATURAL GAS UTILITY FROM EXISTING SITE GAS SERVICE. SIZE METER FOR NOTED INCOMING PRESSURE. ROUTE GAS PIPING UP TO ROOF THROUGH EXTERIOR PARAPET AND CAP FOR FUTURE TENANT USE.
- COORDINATE DROPPED TEE FROM GAS PIPING ON ROOF ABOVE. CAP WITHIN TENANT SPACE FOR FUTURE GAS FIRED WATER HEATER.
- DETERMINE EXACT LOCATIONS OF ALL EXISTING SANITARY LINES ON SITE. APPROXIMATE LOCATION AND SIZES ARE SHOWN.
- CONNECT INTO EXISTING SANITARY AND PROVIDE A 4" CAPPED CONNECTION FOR FUTURE TENANT USE.
- EXISTING RISER IN THIS APPROXIMATE LOCATION TO BE DEMOLISHED. CONNECT TO EXISTING UNDERGROUND PIPING AND ROUTE TO NEW MECHANICAL ROOM AS SHOWN.
- DETERMINE EXACT LOCATION OF EXISTING UNDERGROUND DOMESTIC COLD WATER PIPING FROM SUBWAY TENANT SPACE. APPROXIMATE LOCATION SHOWN.

GROUND FLOOR PLAN - PLUMBING

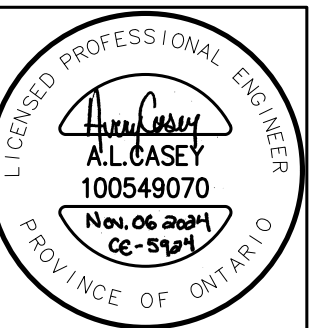
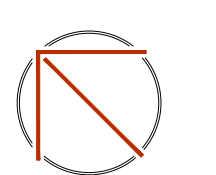
SCALE: 1/4" = 1'-0"

KEYPLAN

REVISIONS

NO.	ISSUED FOR	DATE
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01	100% COORDINATION	24.10.15
02	PERMIT	24.11.07

NORTH



DESIGN	TMC	DRAWN	TMC
CHECKED	ALC	REVIEWED	ALC

PROJECT

STARBUCKS
COBOURG

ADDRESS

1030 DIVISION STREET,
COBOURG, ON

PROJECT NO.

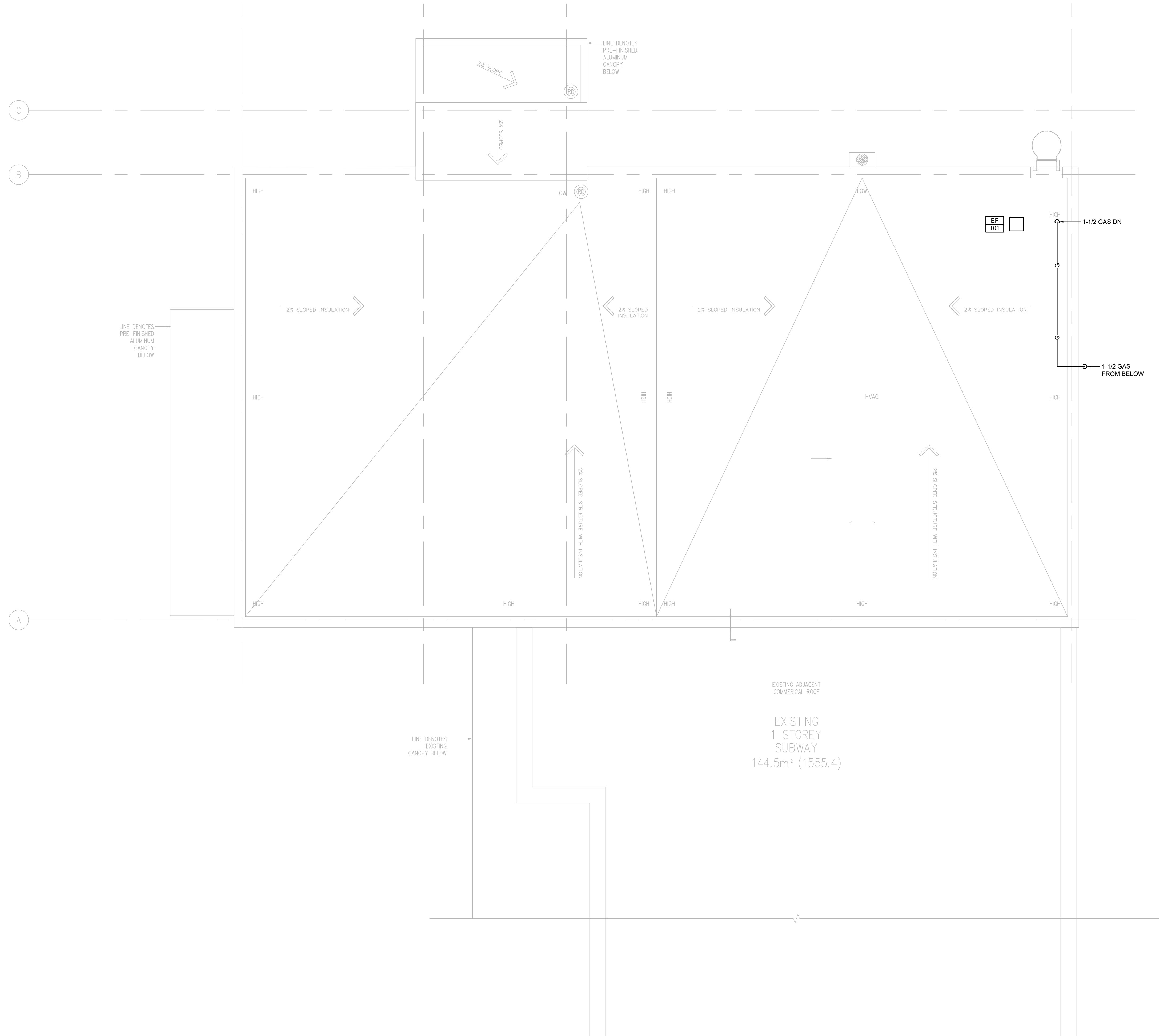
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DRAWING TITLE

ROOF PLAN - MECHANICAL

DRAWING NUMBER

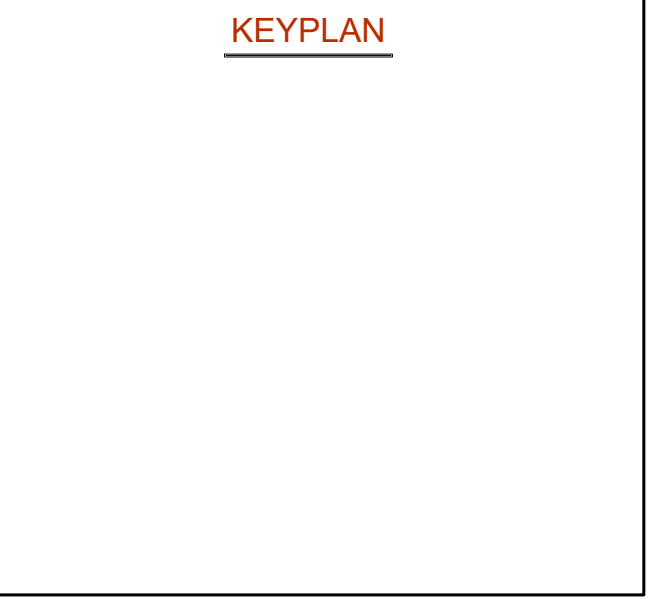
M3 OF 5



ROOF PLAN - MECHANICAL

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

KEYPLAN



REVISIONS

NO.	ISSUED FOR	DATE
00	90% COORDINATION	24.06.26
01	100% COORDINATION	24.10.15
02	PERMIT	24.11.07



DESIGN	TMC	DRAWN	TMC
CHECKED	ALC	REVIEWED	ALC

PROJECT

STARBUCKS COBOURG

ADDRESS

1030 DIVISION STREET,
COBOURG, ON

PROJECT NO.

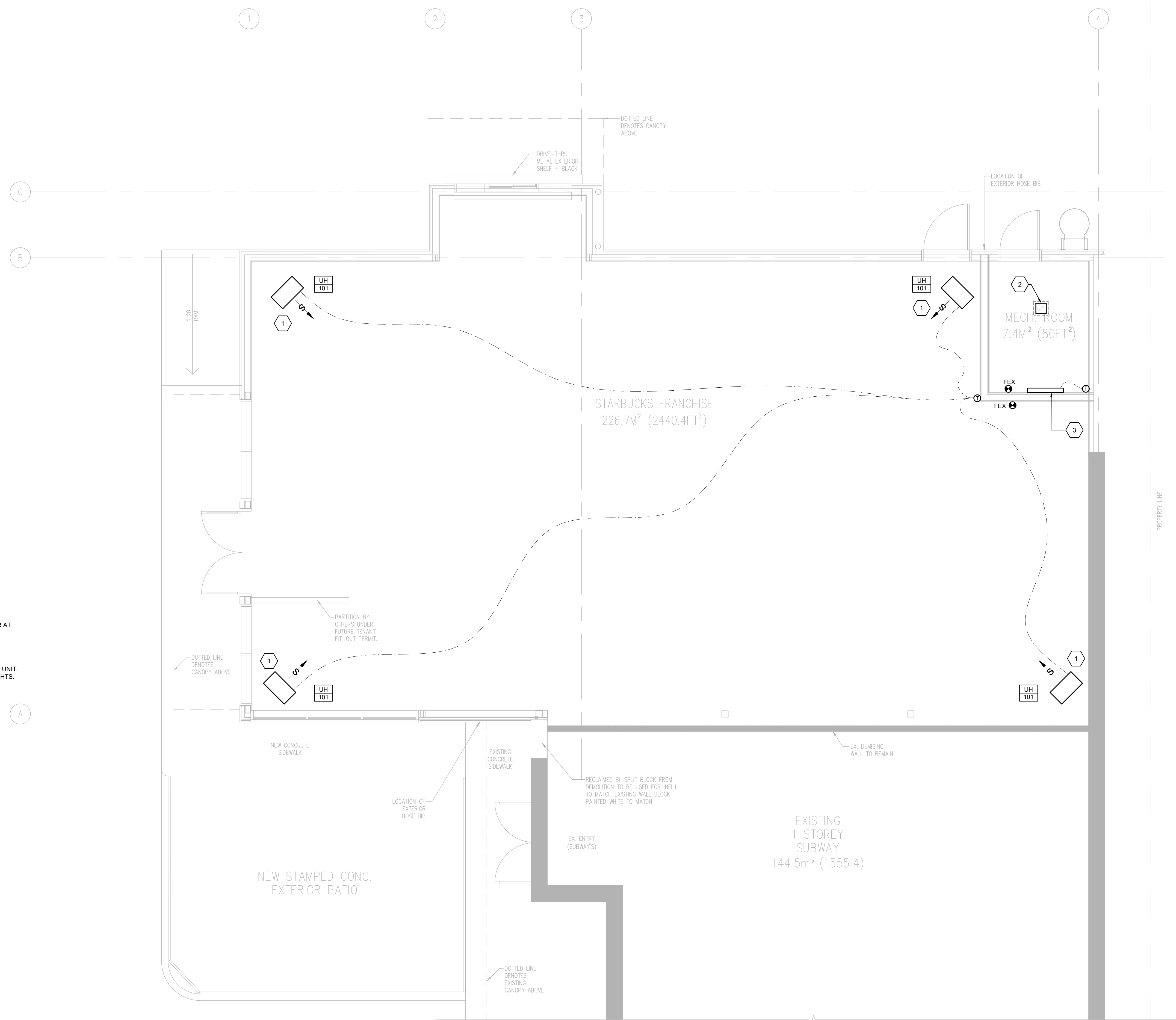
CE-5924

DRAWING TITLE

GROUND FLOOR PLAN - HVAC &
FIRE PROTECTION

DRAWING NUMBER

M4 OF 5



- GENERAL NOTES:**
- THERMOSTATS MOUNTING HEIGHTS TO MATCH ADJACENT LIGHT SWITCHES OR AT 1200mm (48") FOR BARRIER FREE APPLICATIONS; 1500mm (60") OTHERWISE.
- DRAWING NOTES (INDICATED BY HEXAGONS):**
- INSTALL UNIT AND APPURTENANCES TO ALLOW FOR MAINTENANCE ACCESS TO UNIT. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCES AND MOUNTING HEIGHTS.
 - 8x8 E/A DUCT UP TO EF-101 ON ROOF ABOVE. C/W BIRDSCREEN.
 - 2.5kW E.B.B. HEATER BY ELECTRICAL DIVISION.

GROUND FLOOR PLAN - HVAC & FIRE PROTECTION

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



KEYPLAN

1. MECHANICAL GENERAL REQUIREMENTS: 1.1. GENERAL: 1.1.1. MAKE SITE VISIT(S) AS NECESSARY BEFORE BID CLOSING TO ESTABLISH AND VERIFY ALL EXISTING CONDITIONS...

1.2.3.2.1. MAINTAIN AN ACCURATE RECORD OF DEVIATIONS AND CHANGES FROM CONTRACT DRAWINGS WITH RED LINE MARKINGS... 1.2.3.2.2. FORMAT FILES TO MATCH EXACTLY THE LAYERING SYSTEM AND SYMBOLOLOGY OF THE CONSULTANT...

3.1.5.2. SLEEVES FOR PIPING PASSING THROUGH ROOFS WILL BE SUPPLIED AND INSTALLED UNDER THIS DIVISION. 3.1.5.3. MAKE SLEEVES LARGE ENOUGH TO PASS FULL THICKNESS OF PIPE COVERING WHERE SAME IS USED...

3.3.2.2. APPLICATION: 3.3.2.2.1. BURIED PIPING 75 MM (3") AND SMALLER: 3.3.2.2.1.1. TYPE "K" SOFT ANNEALED COPPER TUBING WITH NO JOINTS PERMITTED BELOW GRADE...

6. MECHANICAL EQUIPMENT: 6.1. EXHAUST FANS: 6.1.1. DOWNBLAST: CENTRIFUGAL DIRECT DRIVE EXHAUST FAN WITH SPUN ALUMINUM HOUSING...

Table with 3 columns: NO., ISSUED FOR, DATE. Rows include 00 (90% COORDINATION), 01 (100% COORDINATION), 02 (PERMIT).

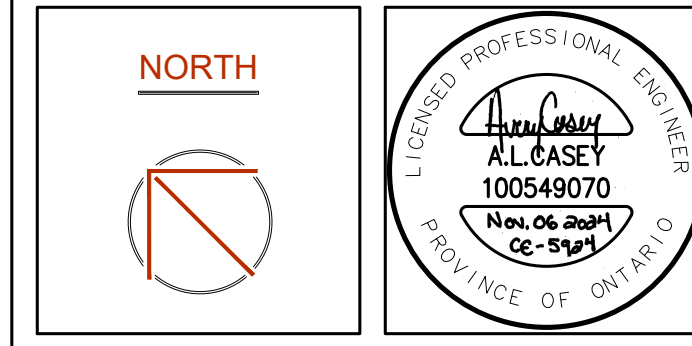


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PROJECT: STARBUCKS COBOURG

ADDRESS: 1030 DIVISION STREET, COBOURG, ON

PROJECT NO.: CE-5924

DRAWING TITLE: MECHANICAL SPECIFICATIONS

DRAWING NUMBER: M5 OF 5