# WINNERS, ROCKLAND

2756 CHAMBERLAND ST., ROCKLAND, ON MECHANICAL



## DRAWING LIST SYMBOL DESCRIPTION MECHANICAL DRAWING LIST, LEGEND & SPECIFICATIONS MECHANICAL FIRE PROTECTION - REMOVALS MECHANICAL FIRE PROTECTION - NEW WORK MECHANICAL PLUMBING PLAN - REMOVALS & NEW WORK MECHANICAL HVAC PLAN - REMOVALS MECHANICAL HVAC PLAN - NEW WORK MECHANICAL ROOF PLAN - REMOVALS MECHANICAL ROOF PLAN - NEW WORK

SYMBOL	DESCRIPTION
	EXISTING PIPING/DUCTWORK/EQUIPMENT
	NEW PIPING/DUCTWORK/EQUIPMENT
	PIPING/DUCTWORK/EQUIPMENT TO BE REMOVED
	PIPING BELOW GRADE/SLAB
(E)	DENOTES EXISTING EQUIPMENT TO REMAIN
(X)	DENOTES EQUIPMENT TO BE REMOVED
(R)	DENOTES EXISTING EQUIPMENT TO RELOCATED
—— DCW ——	DOMESTIC COLD WATER PIPING
——DHW ——	DOMESTIC HOT WATER PIPING
——DHWR——	DOMESTIC HOT WATER RETURN PIPING
—— SAN ——	SANITARY PIPING
——DTW——	DOMESTIC TEMPERED WATER
■ ⊜ FD1	FLOOR DRAIN (TYPE)
<del></del> >	PIPING OFFSET
<del></del>	PIPING DOWN
<u> </u>	PIPING UP
<b>→</b> >—	REDUCER
С	CAP
<u></u>	P-TRAP
▼ ⋈ ૐ	ISOLATION (BALL) VALVES
₩ <del>\</del>	CIRCUIT BALANCING VALVE
<b>N</b>	CHECK VALVE
	EMERGENCY EYEWASH STATION (TYPE)
O MV	MIXING VALVE
0	SEMI-RECESSED PENDENT SPRINKLER
O C	CONCEALED SPRINKLER
$\otimes$	UPRIGHT SPRINKLER
FD	FIRE DAMPER
	DUCT DOWN
	DUCT UP
<b>-</b>	RECTANGULAR DUCTWORK
\$	ROUND DUCTWORK
	TRANSFER FAN
	TAKE-OFF C/W BALANCING DAMPER
	TAKE-OFF
	SQUARE SUPPLY DIFFUSER (TYPE)
RG	RETURN GRILLE (RG)
EG	EXHAUST GRILLE (EG)
	WALL MOUNTED GRILLE/DOOR GRILLE
TO	TRANSFER OPENING (TO)
BD	BALANCING DAMPER (BD)
_	
SD1 8"ø  200	DIFFUSER TAG  DIFFUSER TYPE  AIRFLOW (CFM)  SIZE
	BYPASS BOX
• FE	FIRE EXTINGUISHER C/W MOUNTING BRACKET
1000	LOW VOLTAGE CONTROL WIRING
//	POWER WIRING (BY ELECTRICAL CONTRACTOR)
N	NOVAR TEMPERATURE SENSOR
<b>SO</b>	VARIABLE SPEED CONTROLLER
CO <sub>2</sub>	CO2 SENSOR
EF	EXHAUST/TRANSFER FAN
	+
DHWT	DOMESTIC HOT WATER TANK
	DOMESTIC HOT WATER TANK  BASEBOARD HEATER
DHWT	

BYPASS BOX

### **GENERAL CONDITIONS:**

- 1. ALL CONTRACTORS SHALL BE RESPONSIBLE TO VISIT THE SITE BEFORE SUBMITTING THEIR TENDER IN ORDER TO VERIEY ALL EXISTING CONDITIONS. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ARCHITECTURAL AND/OR DESIGNER, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AS WELL AS EQUIPMENT PLANS AND ALL THE LATEST DETAIL DRAWINGS RELATED TO THE PROJECT, BEFORE SUBMITTING THEIR TENDER.
- 2. ALL CONTRACTORS SHALL BE RESPONSIBLE TO COORDINATE THEIR
- BE PAID FOR BY EACH RESPECTIVE CONTRACTOR.
- (LATEST VERSION) DRAWINGS AND PDF DOCUMENT FILES ON WHICH SHALL BE INDICATED THE "AS-BUILT" CONDITIONS. 5. ALL WORK TO BE CONDUCTED FROM THE EXTERIOR OF THE TENANT PREMISES AND ANY WORK WHICH MAY RESULT IN THE SHUTTING DOWN OF
- 6. ANY WORK WHICH REQUIRES THE SHUTTING DOWN OF EXISTING SYSTEMS (I.E., WATER, GAS, HEATING, COOLING, ELECTRICITY, ETC...), SHALL BE DISCONNECTED, EMPTIED, DRAINED, REFILLED, RECONNECTED AND PLACED BACK IN OPERATION ENSURING THAT ALL EXISTING SYSTEMS
- 7. ALL CUTTING AND PATCHING SHALL BE BY THE GENERAL CONTRACTOR.
- 8. THE DRAWINGS SHOW THE APPROXIMATE LOCATION OF ALL MAIN HORIZONTAL LINES, RISERS, DUCTS, PIPING, FIXTURES, FTC, THE ARRANGEMENT SHOWN IS MORE OR LESS DIAGRAMMATIC AND MAY BE ALTERED TO MEET THE REQUIREMENTS OF THE APPARATUS OR OF THE
- 8.1. THIS CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL MEASUREMENTS THROUGHOUT AND FOR ANY ALTERATIONS NECESSARY FOR THE ARRANGEMENT OF PIPES, DUCTS, ETC., OR THE LOCATIONS OF SAME IN ORDER TO MAKE THEN COME WITHIN THE FINISHED LINES OF FLOORS WALLS CEILINGS FTC WHERE PIPES ARE
- IN A MANNER SATISFACTORY TO THE ENGINEER. 8.2. NO DUCTS OR PIPES, OR FITTINGS OR WORK OF ANY KIND SHALL BE COVERED OR HIDDEN FROM VIEW BEFORE THEY HAVE BEEN EXAMINED
- 9. THE CONTRACTORS SHALL SUBMIT PDF DOCUMENT FILES FOR APPROVAL DRAWINGS FOR ALL EQUIPMENT AND MATERIAL BEING USED. WORK SHALL NOT BE EXECUTED UNTIL APPROVAL HAS BEEN OBTAINED.
- 10. THE CONTRACTORS SHALL FURNISH TO ENGINEER'S OFFICE PDF DOCUMENT FILES AND THREE (3) PRINTED COPIES OF MAINTENANCE MANUALS FOR ALL FOLIPMENT SUPPLIED BY THE CONTRACTOR THESE SHALL INCLUDE OPERATING AND MAINTENANCE INSTRUCTIONS, ALSO
- FROM THE DATE OF FINAL ACCEPTANCE FROM ENGINEER. EACH OF ANY EQUIPMENT AND WORKMANSHIP WITHIN THIS PERIOD.
- 13. ALL EQUIPMENT, DUCTWORK AND PIPING, SHALL BE HUNG IN ACCORDANCE WITH SEISMIC RESTRAINT REQUIREMENT AS PER NBC AND ALL LOCAL BYLAWS. ALL NEW SUPPORTS TO HAVE SEISMIC INSTALLATION CONSTRAINTS. INDICATE IN TENDER FORM NAME OF SEISMIC ENGINEER TO BE USED FOR DESIGN OF ALL SEISMIC SUPPORTS.
- 14.PLUMBING CONTRACTOR SHALL SUPPLY VALVE CHART AND FLOOR PLAN OR DIAGRAMME WITH ALL CORRESPONDING VALVE LOCATIONS. 15. MECHANICAL CONTRACTORS SHALL PROVIDE ACCESS DOORS TO THE GENERAL CONTRACTOR FOR ALL LOCATIONS WHERE EQUIPMENT WILL
- $\frac{\text{GENERAL NOTE}}{\text{NO SUBSTITUTIONS SHALL BE ACCEPTED UNLESS APPROVED BY TJX}}.$ NO MECHANICAL EQUIPMENT SHALL BE INSTALLED BELOW THE LEVEL OF THE

- a. THE OUTLINE SPECIFICATIONS OF TJX AND THESE MECHANICAL DRAWINGS AND SPECIFICATIONS ARE TO OUTLINE ALL THE LABOUR AND MATERIALS NECESSARY FOR THE INSTALLATION OF THE SPRINKLER b. THE FOLLOWING MINIMUM WORK IS REQUIRED TO THE SPRINKLER
- 2. ALL SPRINKLERS SHALL BE CO-ORDINATED WITH THE LATEST ARCHITECTURAL PLANS AND ELECTRICAL REFLECTED CEILING PLAN. IT SHALL BE THE RESPONSIBILITY OF THE
- 3. ALL MAIN PIPING SHALL BE BLACK STEEL SCHEDULE 10. ALL NECESSARY RODS, ANGLES AND AUXILIARY STEEL BY THIS CONTRACTOR.
- 4. ALL WORK SHALL CONFORM TO AUTHORITIES HAVING JURISDICTION OF 5. ALL DESIGNING OF SPRINKLER SYSTEM SHALL BE HYDRAULICALLY
- PROVIDE STAMPED HYDRAULIC CALCULATION. 6. ALL WORK SHALL BE IN ACCORDANCE WITH NEPA-13. UPON PROJECT COMPLETION, CONTRACTOR SHALL PROVIDE A STAMPED LETTER
- 7. ALL SPRINKLERS SHALL BE ALIGNED IN BOTH DIRECTIONS AND
- GRILLES AND DIFFUSERS. 8. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL
- 9. ALL SPRINKLER PIPING SHALL BE TESTED HYDROSTATICALLY UNDER
- PRESSURE OF 200 LBS FOR A PERIOD OF TWO (2) HOURS WITHOUT DEFECTS OR LEAKS.
- WAREHOUSE AND NON-CEILING AREAS: BRASS 286 DEG UPRIGHT EQUAL TO DURASPEED. INSTALL WIRE GUARDS IN STOCKROOM, MECHANICAL ROOMS. ELSE SPRINKLERS MAY BE SUSCEPTIBLE TO DAMAGE.
- 11. SPRINKLER CONTRACTOR TO SUPPLY AND INSTALL A HIGH TEMPERATURE NON-FREEZE SPRINKLER IN GARBAGE CHUTE COMPLETE WITH HEAVY
- 12. SPRINKLER CONTRACTOR TO SUPPLY AND INSTALL NON-FREEZE DRY PENDENT SPRINKLER (CONNECT TO WET PIPE SPRINKLER SYSTEM) IN ENTRANCE VESTIBULE. ALLOW FOR 36" DRY BARREL LENGTH. 13. THE STORE SPRINKLER SYSTEM SHALL BE DESIGNED TO COMPLY WITH

ORDINARY HAZARD GROUP 2.

- 14. PORTABLE FIRE EXTINGUISHERS TO BE SUPPLIED AND INSTALLED BY THE SPRINKLER CONTRACTOR. A. QUANTITY: THE AMOUNT TO BE GREATER OF AS INDICATED BELOW OR AMOUNT REQUIRED BY LOCAL CODES. B. PORTABLE FIRE EXTINGUISHERS WILL BE PROVIDED AND INSTALLED AS DIRECTED BY TENANT'S REPRESENTATIVE. SPRINKLER CONTRACTOR TO PROVIDE THE FOLLOWING PORTABLE FIRE
- EXTINGUISHERS, THE FOLLOWING EXAMPLE IS APPLICABLE FOR A STORE OF 25,000 SQUARE FEET: TYPE ABC - 5 POUNDS, (HAVING A MINIMUM RATING 3A;40BC): O (7) FOR SALES AREA, O (1) STAFF LOUNGE,
- O (1) FITTING ROOM LOBBY, O (2) STOCKROOM O (1) REMOTE STOCKROOM O (1) LITILITY ROOM • TYPE CO2 - MINIMUM 5 POUND CAPACITY (RATING 5BC): O (1) ELECTRICAL ROOM,
- COORDINATE FIRE EXTINGUISHER LOCATIONS WITH TJX VENDOR (FIRST PLACE FIRE) EACH TO BE COMPLETE WITH WALL BRACKET AND OVERHEAD PICTOGRAM SIGN. IN SALES AREA, PICTOGRAM SIGNS SHALL BE LOCATED ON FOUR SIDES OF
- EACH COLUMN WHEREVER PORTABLE EXTINGUISHERS ARE INSTALLED. REFER TO ARCHITECTURAL FOR PICTOGRAM DETAILS. C. EXACT LOCATION AND NUMBER WILL BE DETERMINED ON SITE AND GOVERNED BY LOCAL CODES/AUTHORITIES.

# **VENTILATION AND AIR CONDITIONING**

SHALL BE ATTACHED AS PER ASTME 580.

MUST INSPECT THE INSTALLATION AND SUBMIT A REPORT.

ONSTRUCTION, PIPING, ELECTRICAL CONDUIT, OR ROOF DECK.

THERMAL INSULATION WITH FOIL FACED VAPOUR BARRIER.

3. BACKDRAFT DAMPERS: ALL DAMPERS SHALL BE INSULATED TYPE.

REPRESENT THE INSIDE FREE AREA.

RETARDANT COATING.

APPROVED

CONTRACTOR

10. AIR CONDITIONING UNITS

FANS SHALL COME C/W EC MOTORS

PERFORMANCE: REFER TO SCHEDULE

SHROUD FOR CONTROL COMPONENTS.

INDEPENDENT TEST AND BALANCE CONTRACTOR

JASON BARRETT

416-568-6732

ROOF MOUNTING FRAME:

SHALL INSULATE FRAME.

NATIONAL ACCOUNT MANAGER

JASON.BARRETT@LENNOXIND.COM

SOUND RATINGS OF ASSEMBLY NOT TO EXCEED NC30

LENGTH WITH LIGHTING HEIGHT.

ROOFING CONTRACTOR.

TURNING VANES, EXCEPT WHERE OTHERWISE NOTED.

B. VENTILATION ELEMENTS (EQUIPMENT, FANS, ETC.) INSTALLED IN SUSPENDED CEILINGS

ANGLES AND RODS SHALL BE GALVANIZED. ALL AUXILIARY STEEL SHALL BE BY THIS

CONTRACTOR. DUCTS CANNOT IN ANY LOCATION BE SUPPORTED FROM FURRING, CEILING

4.1. INSULATE ALL TRANSFER AIR DUCTS AND RECTANGULAR A/C SUPPLY AND RETURN DUCTS

FASTENED TO DUCT WITH WELDED PINS. ALL DIMENSIONS INDICATED ON PLANS

4.2. ALL RIGID ROUND AIR CONDITIONING DUCTS WITHIN 25'-0" OF UNITS ARE TO HAVE 1" OF

PINS. ALL EXPOSED INSULATION SHALL BE COVERED WITH 6 oz CANVAS WITH FIRE

4.4. INSULATE ALL FRESH AIR DUCTS FROM OUTLET WITH 2" OF THERMAL INSULATION WITH

4.5. ALL EXPOSED THERMAL INSULATION IN THE ELECTRICAL ROOM AND DATA ROOM AND

PINS. ALL EXPOSED INSULATION SHALL BE COVERED WITH 6 oz CANVAS WITH FIRE

UTILITY ROOM SHALL BE COVERED WITH 6 oz CANVAS WITH FIRE RETARDANT COATING.

PROVIDE IN ALL DUCTS, WHERE THEY PASS THROUGH FIRERATED PARTITIONS, ULC LISTED FIRE

DAMPERS INSTALLED IN BREAKAWAY 18 GA. GALVANIZED SLEEVES, ACCESS DOORS ARE TO BE

AND FIRE DAMPER REPAIRS. ENLARGE DUCT SECTION AROUND EACH FIRE DAMPER SO THAT IN

THE OPEN POSITION THERE IS UNRESTRICTED DUCT AREA. FIRE DAMPERS ARE TO BE RUSKIN

6. GRILLES AND DIFFUSERS: SUPPLY AND INSTALL "NAILOR", "CARNES", "E.H. PRICE", "KREUGER",

SUPPLY AND INSTALL WHERE SHOWN ON PLANS "COOK" OR EQUIVALENT "GREENHECK" OR

EC MOTORS FOR FANS SHALL BE CONSIDERED ACCEPTABLE. IF ANY ELECTRICAL CHANGES

SHALL BE MADE AT THE EXPENSE OF THE MECHANICAL CONTRACTOR (I.E NO COST TO

ARE REQUIRE TO ACCOMMODATE A MOTOR THAT DIFFERS FROM THE BASIS OF DESIGN, IT

THIS CONTRACTOR TO SUPPLY CURBS TO BE INSTALLED BY G.C. AND LANDLORD'S

SUPPLY AND INSTALL ON PLANS 'BIG ASS FANS (BAF) ESSENCE' HVLS FANS AS PER

FANS FINISH SHALL BE SILVER WITH BLACK TRIM. ALL LOGOS ARE TO BE REMOVED.

SCHEDULE AND SPECIFICATION, EACH FAN TO BE SUPPLIED AS SHOWN ON DRAWINGS.

FANS SHALL COME WITH FIRE RELAY TO DE-ENERGIZE FANS UPON FIRE ALARM SIGNAL. IF

COORDINATE SHUT DOWN OF FANS UPON FIRE ALARM SIGNAL WITH ELECTRICAL

FANS SHALL COME WITH EXTENSION TUBE ASSEMBLY. COORDINATE EXTENSION TUBE

MOUNTING HEIGHT OF FANS SHALL MATCH BOTTOM OF ADJACENT LIGHT FIXTURES

NEW ROOF TOP A.C. UNITS SHALL BE "LENNOX" SUPPLIED AND INSTALLED BY THE AC

SHALL BE BY THE A.C. CONTRACTOR AND SHALL CONFORM TO ALL ELECTRICAL CODE

UNITS SHALL BE SINGLE PACKAGE AIR TO AIR DX MECHANICAL COOLING WITH GAS-FIRED

PACKAGE UNITS SHALL BE A STANDARD PRODUCT OF A FIRM REGULARLY ENGAGED IN THE

FIELD CONNECTIONS. IN ADDITION, MANUFACTURER SHALL TEST OPERATE SYSTEM AT THE

FACTORY BEFORE SHIPMENT. ALL POWER WIRING SHALL BE BY ELECTRICAL CONTRACTOR.

AND SERVICE AVAILABLE THROUGHOUT CANADA. THE EQUIPMENT SHALL BE SHIPED

HEATING SYSTEMS WHERE INDICATED, COMPLETE WITH AUTOMATIC CONTROLS, THE SINGLE

MANUFACTURE OF HEATING-COOLING EQUIPMENT. THE MANUFACTURER SHALL HAVE PARTS

COMPLETELY FACTORY ASSEMBLED, PRECHARGED, PIPED AND WIRED INTERNALLY READY FOR

TJX CANADA HAS AN EXCLUSIVE NATIONAL ACCOUNT RELATIONSHIP WITH LENNOX INDUSTRIES

(CDA) LTD. PLEASE CONTACT THE LOCAL LENNOX SALES OFFICE FOR PRICING. SHOULD YOU

HAVE ANY QUESTIONS OR CONCERNS, HVAC CONTRACTORS ARE DIRECTED TO EMAIL:

FURNISH AND INSTALL 18-INCH HIGH STEEL ROOF MOUNTING FRAMES COMPLETE WITH

EQUIPMENT. WHEN FLASHED INTO THE ROOF IT SHALL MAKE A UNIT MOUNTING CURB AND

PROVIDE WEATHERPROOF DUCT CONNECTION AND ENTRY INTO THE CONDITIONED AREA.

FACTORY INSTALLED BURGLAR BARS. FRAME SHALL MATE TO THE BOTTOM PERIMETER OF THE

FLASHING SHALL BE THE RESPONSIBILITY OF A ROOFING CONTRACTOR. GENERAL CONTRACTOR

UNITS SHALL COME COMPLETE WITH PVC CONDENSATE DRAIN TRAP KIT TO BE FIELD INSTALLED

SHALL BE OF GALVANIZED STEEL WITH A BAKED ON OUTDOOR ENAMEL PAINT FINISH. CABINET

SWEATING AND MINIMIZE SOUND. OPENINGS SHALL BE PROVIDED FOR POWER CONNECTION

SHALL ELEVATE UNIT OFF MOUNTING SURFACE. GUARD SHALL BE FURNISHED FOR CONDENSER

CENTRIFUGAL AIR BLOWER SHALL PROVIDE MULTI-STAGE AIR VOLUME CONTROL THROUGH AN

EC MOTOR (3-12.5 TONS) OR A BELT DRIVEN MOTOR C/W FACTORY INSTALLED VFD (15 TONS AND

PANELS WHERE CONDITIONED AIR IS HANDLED SHALL BE FULLY INSULATED TO PREVENT

ALL COMPONENTS, WIRING AND INSPECTION AREAS SHALL BE COMPLETELY ACCESSIBLE.

CANADANA@LENNOXIND.COM OR CONTACT:

IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

REQUIREMENTS. PROVIDE TEST AND BALANCE REPORT PERFORMED BY CERTIFIED

CASING: CONSTRUCTED OF 22 GAUGE ZINC-COATED STEEL, ACOUSTICALLY AND THERMALLY

A MINIMUM AIR VOLUME STOP IS PROVIDED AS STANDARD. FIELD ADJUSTMENT IS REQUIRED.

CONTRACTOR. SEE SCHEDULE ON DRAWING (REFER TO SPECIFICATIONS), ALL CONTROL WIRING

LINED WITH 1/2". TO UL 181 AMENDMENT 1 AND NFPA (FIRE) 90A. PROVIDE PROTECTIVE METAL

CONTROL (FOR STOCKROOM): VIA CONTROLLER PROVIDED BY BAF

CONTROL (FOR OPEN SALES AREA): VIA NOVAR SYSTEM (2 ZONES)

DAMPERS: INTEGRAL INLET AND BY-PASS BALANCING DAMPERS.

ACCEPTABLE MATERIAL: E.H. PRICE, TITUS, NAILOR, METAL AIR, KRUGER.

FAN IS NOT SELECTED WITH FIRE BELAY PROVIDE FIRE WIRE FROM FIRE ALARM PANEL TO A

CONTACT RELAY LOCATED IN THE BA FAN PROVIDED JUNCTION BOX AT THE FAN LOCATION.

SPRINKLER CONTRACTOR AND INSTALL FAN IN ACCORDANCE WITH NFPA13 REQUIREMENTS.

WIRING OF FIRE RELAY BY FIRE ALARM CONTRACTOR, COORDINATE FAN LOCATION WITH

"PENN" EXHAUST FAN AS PER SCHEDULE ON DRAWING. EACH FAN TO BE SUPPLIED WITH

MATCH FINISH OF CEILING, CO-ORDINATE WITH ARCHITECTURAL DRAWINGS.

ACCESSORIES AS SHOWN IN SCHEDULE ON DRAWING.

ALL MANUAL STARTERS TO BE RECESSED TYPE.

ALL WIRING BY ELECTRICAL CONTRACTOR.

FITTED IN DUCTWORK AT EACH FIRE DAMPER TO FACILITATE REPLACEMENT OF FUSIBLE LINKS

25'-0" FROM UNITS WITH 1" OF ACOUSTICAL LINING. INSULATION SHALL BE GLUED AND

4.3. INSULATE ALL EXHAUST DUCTS 15'-0" FROM OUTLET WITH 1" OF THERMAL INSULATION WITH

VAPOUR BARRIER. INSULATION SHALL BE GLUED AND FASTENED TO DUCT WITH WELDED

VAPOUR BARRIER. INSULATION SHALL BE GLUED AND FASTENED TO DUCT WITH WELDED

C. VENTILATION DUCTWORK SUPPORT DETAILS MUST BE SUBMITTED. ALL THE ELEMENTS MUST

BE VALIDATED AND STAMPED BY A QUALIFIED SEISMIC ENGINEER. THE SAME ENGINEER

- ALL NEW AIR CONDITIONING AND VENTILATION COMPONENTS SHALL BE CALCULATED TO RESIST A LATERAL FORCE AS PER NATIONAL BUILDING CODE ARTICLE 4.10 " LIVE LOADS DUE TO A. SUPPLY AN ANTI-SEISMIC SUPPORT SYSTEM AS PER SMACNA "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS" FOR ALL AIR CONDITIONING AND VENTILATION
- WORKS WITH ALL OTHER TRADES AND SHALL FOLLOW SCHEDULE SET BY THE GENERAL CONTRACTOR.
- 3. ALL PERMITS. TAXES. ETC., RELATIVE TO THIS JOB FOR EACH TRADE SHALL 4. FACH CONTRACTOR UPON COMPLETION OF HIS WORK SHALL SUBMIT ACAD
- EXISTING SYSTEMS (I.E., WATER, DRAINAGE, GAS, HEATING, AIR CONDITIONING, ELECTRICITY, ETC...) SHALL BE PERFORMED AFTER HOURS (NIGHTS, WEEKENDS, ETC.) SO AS NOT TO DISRUPT THE ACTIVITIES OF THE OTHER TENANTS.
- AFFECTED BY THE SHUT DOWN ARE MAINTAINED AS PREVIOUSLY
- ALL CORE DRILLING SHALL BE THE RESPONSIBILITY OF EACH SUB
- EXPOSED. SAME SHALL BE RUN IN PARALLEL LINES AND NEATLY
- ARRANGED. BRANCH LINES OF THE VARIOUS FIXTURES SHALL BE RUN
- BY THE ENGINEER
- 11. FURNISH GUARANTEES FOR ALL EQUIPMENT SUPPLIED UNDER THIS
- 12. FURNISH A WARRANTY FOR (12) TWELVE CONSECUTIVE MONTHS FOR ALL MATERIALS AND WORKMANSHIP. THIS WARRANTY WILL COMMENCE ONLY CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT

REQUIRE ACCESS.

- ALL PIPING MAINS AND BRANCHES TO CONNECT ALL SPRINKLER ALL NECESSARY TEST CONNECTIONS AND AUXILIARY DRAINS. c. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FOR, PAYING FOR, AND OBTAINING, SPRINKLER PERMIT, AS REQUIRED BY MUNICIPALITY.
- CONTRACTOR TO COORDINATE WITH ALL TRADES AND PROVIDE ALL THE COVERAGE REQUIRED TO CONFORM TO ALL CODES.
- DESIGNED SUBJECT TO THE STANDARDS ESTABLISHED BY UNDERWRITERS. CONTRACTOR SHALL ALLOW FOR HYDRANT FLOW TEST AND SHALL
- CERTIFING THAT THE INSTALLATION IS IN CONFORMANCE WITH NFPA-13 AND ALL APPLICABLE LOCAL CODES.
- CO-ORDINATED WITH LIGHTING FIXTURES AND VENTILATION DUCTWORK,
- SPRINKLERS HAVE APPROPRIATE TEMPERATURE RATINGS, IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13.
- 10. PROVIDE ALL NEW HEADS AS FOLLOWS: ELECTRICAL ROOMS, DATA ROOMS, UTILITY ROOMS AND WHEREVER
- T-BAR CEILINGS: CHROME SEMI-RECESSED SPRINKLERS GYPSUM BULKHEADS: FULLY RECESSED SPRINKLERS FINISH: WHITE
- ABOVE) . BLOWERS SHALL BE STATICALLY AND DYNAMICALLY BALANCED. THE ENTIRE ASSEMBLY SHALL BE FLOATED ON RESILIENT RUBBER MOUNTS. DUTY WIRE GUARD AND SUPERVISED ISOLATION VALVE.
  - TWIN PROPELLER TYPE CONDENSER FANS SHALL DISCHARGE VERTICALLY AND BE DIRECT DRIVEN MOTOR. FAN MOTOR SHALL BE TOTALLY CLOSED WITH BALL BEARINGS, PERMANENTLY LUBRICATED, INHERENTLY PROTECTED EQUIPPED WITH RAIN SHIELD. FAN SHALL HAVE A
    - 2" THICK MEDIUM EFFICIENCY DISPOSABLE PLEATED FILTERS IN PERMANENT METAL FRAMES. SINGLE PACKAGE UNIT SHALL BE CSA CERTIFIED, ALL WIRING SHALL BE IN COMPLIANCE WITH
    - COMPRESSORS SHALL HAVE A LIMITED WARRANTY FOR A FULL FIVE YEARS. ALL OTHER COMPONENTS SHALL HAVE A LIMITED WARRANTY FOR ONE YEAR.

NEC AND CEC. ALL ELECTRICAL COMPONENTS SHALL HAVE U.L.C. LISTING.

- THE TOTAL CERTIFIED COOLING CAPACITY AND EVAPORATOR AIR VOLUMES SHALL BE AS PER SCHEDULE ON DRAWING. ENTERING WET BULB AIR TEMPERATURE OF 67 DEGREES F. AND ENTERING DRY BUILD AIR TEMPERATURE OF 80 DEGREES F. AND CONDENSER ENTERING. TEMPERATURE OF 95 DEGREES FAHRENHEIT. THE COILS SHALL BE NON-FERROUS CONSTRUCTION WITH ALUMINUM FINS MECHANICALLY BONDED TO DURABLE COPPER TUBES. COILS SHALL BE PRESSURE LEAK TESTED. THE COMPRESSORS SHALL BE RESILIENTLY MOUNTED, HAVE OVERLOAD PROTECTION, INTERNAL PRESSURE RELIEF AND CRANKCASE HEATER, THE REFRIGERATION SYSTEM SHALL HAVE SUCTION AND DISCHARGE LINE SERVICE GAUGE PORTS. LIQUID LINE STRAINER. LOW PRESSURE SWITCH AND FULL REFRIGERANT CHARGE. CONTROL SHALL CONSIST OF 5 MIN. TIMED DELAY CONTROL, LOW AMBIENT CONTROL AND START CONTROLS. SHALL COMPLY WITH ARI STANDARD 210 TEST CONDITIONS.
- GAS HEATING SYSTEM: AUTOMATIC CONTROLS FURNISHED AS STANDARD EQUIPMENT SHALL GIVE TWO STAGE OPERATION. CYLINDRICAL DRUM AND TUBE HEAT EXCHANGER SHALL BE CONSTRUCTED OF ALUMINIZED STEEL. COMBINATION STAINLESS AND ALUMINIZED STEEL POWER BURNER SHALL HAVE PREPURGE, ELECTRIC SPARK IGNITION, 100% SAFETY SHUT-OFF CONTROLS, ELECTRONIC FLAME SENSING CONTROLS, SERIES GAS VALVES AND LIMIT CONTROLS. STAGING CONTROL SHALL BE WITH SEPARATE GAS VALVES. ALL CONTROLS SHALL BE LISTED FOR OPERATION AT LOW OUTDOOR AIR TEMPERATURES. BURNER SHALL BE EQUIPPED WITH INSPECTION WINDOW AND AIR SHUTTER FOR COMBUSTION AIR ADJUSTMENT. COMPLETE SERVICE ACCESS SHALL BE PROVIDED FOR CONTROLS AND WIRING. SHALL BE C.G.A. CERTIFIED FOR OUTDOOR
- FURNISH AND INSTALL COMPLETE WITH CONTROLS A DUCT ENCLOSURE WITH AIR MIXING DAMPER ASSEMBLY INCLUDING OUTDOOR AIR AND RECIRCULATED AIR DAMPERS. THE

ASSEMBLY SHALL MOUNT WITHIN THE CONFINES OF THE DUCT ENCLOSURE AND PROVIDE FOR THE INTRODUCTION OF OUTSIDE AIR FOR MINIMUM VENTILATION AND FREE COOLING, OUTDOOR AIR INTAKE HOOD SHALL INCLUDE AIR FILTERS. DAMPER MOTOR SHALL BE 24 VOLT, FULLY MODULATING, SPRING RETRUN. CONTROLS SHALL INCLUDE DISCHARGE SENSOR AND ADJUSTABLE ENTHALPY CONTROL, ALL UNITS 10 TONS AND OVER, SHALL HAVE MODULATING (2-10V DC) CONTROL ON THE FRESH AIR DAMPER FOR CO2 CONTROL. (SEE TEMPERATURE

OWERED RELIEF / GRAVITY RELIEF: ALL UNITS 10 TONS AND OVER SHALL HAVE POWERED RELIEF FANS, UNITS BELOW 10 TONS SHALL HAVE FACTORY INSTALLED GRAVITY RELIEF.

UNITS SHALL BE COMPLETE WITH A 115 VOLT GFI SERVICE OUTLET (FIELD WIRED).

### . DUCTWORK: ALL DUCTWORK IS TO BE FABRICATED IN ACCORDANCE WITH THE LATEST EDITIONS OF "ASHRAE" AND "SMACNA" GUIDES AND STANDARDS. ALL JOINTS SHALL BE SEALED WITH "DURODYNE" WB-S2 SEALANT. ALL SQUARE ELBOWS TO HAVE DOUBLE THICKNESS AIRFOIL ALL UNIT SHALL HAVE PRODIGY CONTROLLER C/W BACNET MODULE (59W51) IN AC UNITS BY THE

1.1. ALL EXPOSED NON-INSULATED ROUND DUCTWORK SHALL BE SPIRAL. 1.2. ALL OVAL DUCTWORK TO BE SPIRAL EMPERATURE CONTROLS: EACH UNIT SHALL HAVE A WALL MOUNTED REMOTE SENSOR AND 1.3. ALL AIR CONDITIONING BRANCH LINE IN FLEXIBLE DUCTWORK SHALL BE IMPERIAL (OR WALL/DUCT MOUNTED CO2 SENSOR (WHERE INDICATED). SENSORS TO BE LEFT ON SITE AND EQUAL TO) MODEL CI GREY VINYL COMPLETE WITH 1" OF INSULATION WITH VAPOUR DELIVERED TO THE NOVAR INSTALLER, FINAL INSTALLATION AND CONNECTIONS TO BE BY TJX'S BARRIER, MAX. LENGTH SHALL NOT EXCEED 10'-0" AND SHALL BE SUPPORTED EVERY 5'-0". CONTROLS CONTRACTOR. 2. ALL DUCTS SHALL BE HUNG WITH ADEQUATE HANGERS SUPPORTED INDEPENDENTLY. ALL

CONTROLS SECTION BELOW.)

### VENT EXTENSION KIT: EACH UNIT SHALL COME C/W FLUE GAS VENT EXTENSION KIT. CONTRACTOR SHALL PROVIDE ADDITIONAL B-VENT PIPING TO EXTEND FLUE GAS VENT ABOVE

- WIRING FOR ROOFTOP A.C. UNIT: A. SUPPLY AND INSTALL A SINGLE PHASING CONTACTOR IN CIRCUIT TO EACH ROOFTOP A.C.
- B. REARRANGE INTERNAL CONTROL WIRING OF A.C. UNIT SO THAT THE EVAPORATOR FAN MOTOR AND COMPRESSORS WILL SHUT DOWN ON A SINGLE PHASING CONDITION. C. THE A.C. CONTRACTOR SHALL VERIFY OPERATION OF ECONOMIZER WITH A.C. UNIT MANUFACTURER ON THE SITE AND HAVE MANUFACTURER SUBMIT LETTER TO ENGINEER ATTESTING TO THE PROPER OPERATION O THE "ECONOMIZER".

### SUPPLY AND INSTALL LENNOX, NATURAL GAS-FIRED UNIT HEATER TO SIZE AS PER SPEC AND WHERE INDICATED ON PLAN.

# 11. ELECTRICALLY HEATED AIR CURTAIN

ACCEPTABLE MATERIAL: BERNER ARC16

CALL FOR COOLING.

- PERFORMANCE: REFER TO SCHEDULE AIR CURTAIN SHALL BE RECESSED INTO VESTIBULE CEILING CASING: COOROSION RESISTAN, ALUMINIZED STEEL ALL WELDED CONSTRUCTION
- MOTORS: 1HP, 2-SPEED, PERMANENTLY LUBRICATED AND SEALED BALL BEARING, DOUBLE EXTENDED SHAFTS, CONTINUOUS DUTY, WITH INTERNAL THERMAL-OVERLOAD PROTECTION. FANS: BALANCED FORWARD CURVED TYPE, DOUBLE INLET DISCHARGE NOZZLES: PROVIDE UNIFORM VELOCITY ACROSS WIDTH OF AIR CURTAIN CONTROLS: MAGNETIC DOOR SWITCH AUTOMATICALLY ACTIVATES UNIT WHEN DOOR OPENS AND DEACTIVATES UNIT WHEN DOOR CLOSED. UNIT SHALL COME C/W UNIT MOUNTED

MANUFACTURER SUPPLIED CONTROLLER (INTELLISWITCH) TO ALLOW FOR OPERATION OF AIR

CURTAIN/HEATING WHEN DOOR IS CLOSED. PROVIDE REMOTE THERMOSTAT FOR HEATING

- PROVIDE BRACKETS AND OTHER MOUNTING ACCESSORIES AS REQUIRED TO PERMIT OR "TITUS" GRILLES AND DIFFUSERS, AS SHOWN ON SCHEDULE ON DRAWING. COLOURS ARE TO INSTALLATION AND PROPER FUNCTIONING OF AIR CURTAIN TO MEET PROJECT CONDITIONS
  - UNIT SHALL COME C/W MANUFACTURER SUPPLIED DISCONNECT SHIPPED LOOSE. WIRING BY ELECTRICAL CONTRACTOR WIDTH SHALL MATCH DOOR OPENING COLOUR TO BE WHITE

### SUPPLY AND INSTALL 3/4" DIA. BURGLAR BARS IN ALL VENTILATION AND AIR CONDITIONING WALL AND ROOF OPENINGS 12" X 12" AND LARGER ON 6" CENTRES IN EACH DIRECTION WELDED TO A 2" X 2" X 1/8" ANGLE FRAME RIGIDLY FASTENED TO BUILDING STRUCTURE WITH TAMPERPROOF

13. AC CONTRACTOR SHALL PROVIDE TEMPORARY PROGRAMMABLE THERMOSTATS FOR EACH NEW AC UNIT COMPLETE WITH 50'-0" OF WIRING. THIS CONTRACTOR SHALL CONNECT THESE THERMOSTATS TO THE UNITS SO THAT THE UNITS CAN BE USED BEFORE THE WORK BY THE EMS CONTRACTOR IS COMPLETED. TEMPORARY LOCATION OF THERMOSTATS SHALL BE INSTALLED

- 14. CONTROLS A. THERMOSTAT FOR ELECTRICAL ROOM TO BE SUPPLIED AND INSTALLED BY THE A.C. CONTRACTOR. HEATING/COOLING THERMOSTAT SHALL CALL FOR HEATING FROM BASEBOARD, PROVIDE CONTACTS AND RELAYS AS IS NECESSARY AND SHALL START FAN ON
- B. A.C. UNIT CONTROLS EACH UNIT SHALL HAVE A WALL MOUNTED REMOTE SENSOR AND CO2 SENSORS INSTALLED WHERE INDICATED ON PLANS. EACH UNIT TO BE CONTROLLED FROM "EMS" CONTROL MODULE. WIRING FROM UNIT TO SENSOR TO BE BY THIS CONTRACTOR. THE FINAL INSTALLATION SENSORS IN TJX'S SPACE SHALL BE BY THIS CONTRACTOR. MOUNTING HEIGHT IN SALES AREA TO BE 7'-6" AFF. MOUTING HEIGHT IN STOCKROOM SHALL BE 7'0" AFF. C. ALL REHEAT ZONES SHALL BE CONTROLLED BY A NOVAR "EMS" CONTROL MODULE WITH A REMOTE TEMPERATURE SENSOR. "EMS" CONTROL MODULE TO BE SUPPLIED BY STANDARD MECHANICAL. WIRING FROM MODULE TO SENSOR TO BE BY THIS CONTRACTOR.
- D. TEMPERATURE SENSORS IN OFFICES SHALL ALLOW OCCUPANT TO ADJUST TEMPERATURE SET POINT BY +/-1.8°F(1°C). ALL OTHER TEMPERATURE SENSORS SHALL NOT BE USER-ADJUSTABLE. MOUNTING HEIGHT IN OFFICES TO BE 5'0" AFF. E. SUPPLY AND INSTALL NOVAR TEMPERATURE SENSOR FOR GAS UNIT HEATER. F. COORDINATE MOUNTING HEIGHTS OF SENSORS WITH ARCHITECTURAL ELEVATIONS.

### THIS CONTRACTOR SHALL ENGAGE STANDARD MECHANICAL TO INSTALL CONTROL MODULES AT EACH UNIT AND INSTALL TEMPERATURE SENSORS AND CARBON DIOXIDE DETECTORS WHERE SHOWN ON PLANS. REFER TO TJX MASTER SPECIFICATION FOR EMS SPECIFICATIONS. STANDARD MECHANICAL" SHALL BE ENGAGED TO DO ALL CONTROL WORK.

- TJX CANADA HAS AN EXCLUSIVE NATIONAL ACCOUNT RELATIONSHIP WITH OPUS CONTROLS TO SUPPLY ALL ENERGY MANAGEMENT PRODUCTS FOR ALL LOCATIONS. NO ALTERNATIVES WILL BE ACCEPTED. ENERGY MANAGEMENT CONFIGURATION DESIGN AND INSTALLATION WILL BE PERFORMED EXCLUSIVELY BY THE ENERGY MANAGEMENT COMPANY LISTED BELOW. COSTS OF DESIGN, SUPPLY AND INSTALLATION WILL BE INCLUDED AS PART OF THIS CONTRACT. CONTACT: S.C.M. ENERGY MANAGEMENT DIVISION
  - MISSISSAUGA, ONTARIO L4X 2E2 BILL KEATES - GENERAL MANAGER PHONE: (905) 614-2837 FAX: (905) 625-0558

3055 UNIVERSAL DRIVE

OFFICE AREA RTU CONTROL SEQUENCE EMS SHALL POLL TEMPERATURE SENSORS IN OFFICES/WASHROOMS AND SET RTU SUPPLY TEMPERATURE TO SATISFY SPACE IN WHICH THE TEMPERATURE IS FURTHEST FROM

EMAIL: ESTIMATING@STANDARDMECHANICAL.COM

 EMS SHALL MODULATE BYPASS BOXES, AS REQUIRED, TO MEET SPACE TEMPERATURE SETPOINTS.

- CONTRACTOR TO SUBMIT THREE (3) COPIES OF BALANCING REPORTS TO ENGINEER FOR APPROVAL. BALANCING REPORTS SHALL BE COMPLETE WITH ALL INFORMATION ABOUT ALL EQUIPMENT AND AIR QUANTITIES AT EACH OUTLET. ALL SYSTEMS SHALL BE INCLUDED. A TRAINED QUALIFIED TECHNICIAN SHALL START UP ALL SYSTEMS. AN INDEPENDENT CONTRACTOR SHALL BE RETAINED TO SUPPLY ALL EQUIPMENT AND MATERIALS REQUIRED PROVIDING THE HVAC SYSTEMS START-UP, TESTING, AND BALANCING AS LISTED BELOW, SUCH THAT THE BUILDING WILL BE LEFT READY FOR REGULAR OPERATION:
- TEST CONTROL OPERATING RANGES AND SENSITIVITIES. II) TEST SAFETY CONTROLS. III) CHECK SUMMER/WINTER CHANGEOVER CONTROLS. iv) BALANCE THE SYSTEM SUCH THAT TERMINAL AIR FLOWS ARE WITHIN +10%/-5% OF
- VALUES. v) MARK DAMPER AND CONTROL POSITION SETTINGS. vi) TEST HVAC UNITS FOR S/A FLOW, O/A FLOW, STATIC PRESSURE ACROSS FAN, FAN RPM.

viii) MAKE ALLOWANCE FOR 2 ADDITIONAL SITE VISITS FOR COMFORT ADJUSTMENTS.

FAN MOTOR AMPERAGE NOTING RESULTS ON BALANCING REPORT. vii) SUBMIT 3 COPIES OF FINAL COMMISSIONING REPORT TO OWNER'S REPRESENTATIVE THE DESIGN CONSULTANTS.

- ALL PIPING AND EQUIPMENT TO BE SEISMICALLY BRACED.
- SUPPORT PIPING; ALL PIPES TO BE HUNG TO TAKE INTO CONSIDERATION ALL SEISMIC ALL NEW PIPING AND EQUIPMENT SHALL BE CALCULATED TO RESIST A LATERAL FORCE NATIONAL BUILDING CODE ARTICLE 4.10 " LIVE LOADS DUE TO EARTHQUAKES"
- 0 SUPPLY ANTI-SEISMIC SUPPORT SYSTEMS AS PER SMACNA " SEISMIC RESTRAINT GUIDELINES FOR MECHANICAL SYSTEMS" o ALL ELEMENTS INSTALLED IN SUSPENDED CEILINGS SHALL BE ATTACHED AS PER
- o ALL DETAILS OF PIPING SUPPORTS MUST BE SUBMITTED. ALL THE ELEMENTS MUST BE VALIDATED AND STAMPED BY A QUALIFIED SEISMIC ENGINEER. THE SAME ENGINEER MUST INSPECT THE INSTALLATION AND SUBMIT A REPORT.
- 1. THE PLUMBING WORK SHALL CONFORM TO ALL LOCAL CODES AND BYLAWS HAVING JURISDICTION. THIS CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR ALL CHARGES IN ORDER TO OBTAIN THE NECESSARY PERMITS AND APPROVALS.
- VERIFY ON SITE FOR SEWER ENTRANCE: EXACT SITE CONDITIONS WILL GOVERN WHERE THE SEWER WILL BE EXITING THE BUILDING, THE PLANS INDICATED A SUGGESTED LAYOUT, MODIFY TO SUIT SITE CONDITIONS. A. PVC-XFR OR CAST IRON CL 4000MJ OR COPPER-DWV ABOVE GROUND. B. PVC SDR WHERE BURIED.
- C. ABS PIPING, SIZED 3" AND SMALLER, SHALL BE CONSIDERED ACCEPTABLE WHERE BURIED UNDER SLAB OR CONCEALED WITHIN WALLS (EXCEPT FOR HIGH BUILDINGS) D. ALL MATERIALS USED MUST COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
- PROVIDE A 4" MAIN VENT TRHOUGH ROOF, WHERE SHOWN ON PLAN. PIPING SHALL BE pvc-XFR or CAST IRON CL 4000MJ OR COPPER-DWV. BACK VENTS SHALL BE PROVIDED FOR ALL INDIVIDUAL TRAPS. ALSO ALL FIXTURES IN GROUPS EXCEPT WHERE CIRCUIT LOOP OR OTHER METHOD OF VENTING IS APPROVED BY LOCAL AUTHORITIES. THIS CONTRACTOR SHALL CONNECT VENTS FROM ALL FIXTURES TO VENT THROUGH ROOF BY THIS CONTRACTOR. WATERPROOFING OF OPENING BY AN APPROVED ROOFING CONTRACTOR.
- THIS CONTRACTOR SHALL CONNECT NEW 2" COLD WATER TO WATER MAIN LEFT BY OWNER'S CONTRACTOR AS SHOWN ON PLAN. EVERY BRANCH TO FIXTURE OR GROUP OF FIXTURES SHALL BE VALVED.
- COPPER TYPE "L" WITH STREAM LINE FITTINGS. ALL CONNECTIONS OVER 2" TO BE SILVER SOLDERED (1100F.), ALL CONNECTIONS 2" AND LESS TO BE MADE WITH LEAD-FREE SOLDER. PEX-A PIPING WITH A MAXIMUM FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPED RATING OF 50 SHALL BE CONSIDERED ACCEPTABLE FOR DOMESTIC WATER
- PIPING FOR SIZES 2" AND SMALLER. EQUAL TO UPONOR AQUAPEX OR EQUAL. LEAD FREE VIEGA PROPRESS FITTINGS WITH EPDM SEALS, CONFORMING TO NSF/ANSI 61, SHALL BE CONSIDERED ACCEPTABLE FOR DOMESTIC WATER PIPING FOR SIZES 2" AND SMALLER EXCEPT WHERE BURIED. INSTALL WATER HAMMER ARRESTORS: ZURN MODEL Z-1700, ON ALL HOT AND COLD WATER LINES FEEDING EACH FIXTURE OR GROUP OF FIXTURES. THIS CONTRACTOR SHALL REPAIR
- ALL COLD WATER PIPING TO BE COVERED WITHIN 1" THICKNESS OF FIBREGLASS DUAL TEMP INSULATION, 5.5 POUNDS DENSITY PER CUBIC FOOT, WITH A FACTORY APPLIED
- ALL SERVICE JACKET. THE FINISH OF THE INSULATED SURFACES SHALL CONSIST OF TWO (2) COATS OF BENJAMIN FOSTER 30-26 AND IN BETWEEN THESE COATS A LAYER OF 6-OUNCE CANVAS SHALL BE NEATLY APPLIED. ALL HOT WATER PIPING AND RECIRCULATION IS TO BE COVERED WITH 1" THICKNESS OF FIBREGLASS STANDARD PIPE INSULATION, 5.5 POUNDS DENSITY PER CUBIC FOOT. WHERE PIPES ARE EXPOSED TO VIEW. THIS WILL BE COVERED WITH TWO (2) COATS OF BENJAMIN FOSTER 30-36 SEALFAST AND IN BETWEEN THESE COATS A LAYER OF
- 6-OUNCE CANVAS SHALL BE NEATLY APPLIED. THIS SHALL APPLY TO EXISTING AND NEW ALL FITTINGS FOR ALL PIPING ARE TO BE COVERED TO AN EQUAL THICKNESS WITH INSULATING CEMENT. THE CEMENT MUST BE FINISHED NEATLY AND COVERED WITH TWO (2) COATS OF BENJAMIN FOSTER 0-36 SEALFAST WITH A LAYER OF 6-OUNCE CANVAS NEATLY APPLIED BETWEEN THESE COATS. • INSULATION MUST BE APPLIED NEATLY AND FINISHED ROUND. ALL FITTINGS, VALVES,
- CHECK VALVES, ETC., ARE TO BE COVERED AS DESCRIBED ABOVE. VALVES AND CHECK VALVES MUST BE INSULATED IN SUCH A MANNER AS TO PERMIT EASY REMOVAL FOR ADJUSTMENT OF VALVES PACKING OR STEM AND CHECK VALVE CLAPPERS. WHERE PIPES PASS THROUGH PIPE CHASE OR MOIST AREAS, THIS CONTRACTOR MUST PAINT INSUITATION WITH TOW (2) COATS OF CUSTET ANTI-FUNGICIDAL PAINT. • REPAIR INSULATION DAMAGED WHEN CONNECTING TO EXISTING MAINS.
- 7. SUPPLY AND INSTALL DIELECTRIC FITTINGS BETWEEN DISSIMILAR METALS. 8. SUPPLY AND INSTALL THE FOLLOWING PLUMBING FIXTURES:
- AMERICAN STANDARD #9482.000 OVALYN UNIVERSAL ACCESS UNDERCOUNTER WASHBASIN, 425 MM x 337 MM x 100 MM (16-3/4" x 13-1/4" x 4") HIGH, OVAL, VITREOUS CHINA. UNDERCOUNTER, REAR OVERFLOWS. DYSON WASH AND DRY TAP WD04, COMBINATION HAND DRYER/FAUCET, HARD-WIRED 120V POWER, LEAD FREE, STAINLESS STEEL
- (BRUSHED). TOUCH-FREE INFRARED ACTIVATION, WITH 1.9 LPM (0.5 GPM) FLOW AERATOR. DRYER C/W HEPA FILTER. MOLDED ABS UNDER COUNTER MOTOR BUCKET. CONTRACTOR TO PROVIDE THERMOSTATIC MIXING VALVE WITH CHECK VALVES AND ISOLATION VALVES ON DCW/DHW INLETS. ABOVE CEILING (ONE MIXING VALVE REQUIRED TO SUPPLY TEMPERED WATER TO ALL LAVATORIES). COORDINATE ACCESS DOOR WITH GENERAL CONTRACTOR, ACORN ENGINEERING #4951-019-000 OVERFLOW GRID STRAINER, C.P., CAST BRASS 1 PC. TOP, C/W OFFSET OPEN GRID WITH 17GA. (1.5MM), 1-1/4" (32MM) TAILPIECE. MCGUIRE #LFH170BV SUPPLIES, C.P., POLISHED BRASS, RIGID HORIZONTAL INTEGRAL COPPER SWEAT TUBE NIPPLES, 1/2" (12MM) I.D. X 5" (127MM) LONG, ALL BRASS 1/4 TURN

BALL VALVE ANGLE STOPS WITH COMBINATION V.P. LOOSE KEY HANDLES. ESCUTCHEONS

AND FLEXIBLE COPPER RISERS. MCGUIRE #LF8872C 'P' TRAP, C.P., POLISHED, CAST BRASS

ADJUSTABLE BODY, 1-1/4" (32MM) WITH CLEANOUT PLUG, SEAMLESS BRASS WALL BEND AND ESCUTCHEON. McGUIRE #PW2000WC 'PROWRAP' SANITARY COVERING, OF PVC, VANDAL-RESISTANT FLEXIBLE SEAMLESS CONSTRUCTION, ANTI-MICROBIAL, TO EXPOSED PIPING (TO PROTECT AGAINST HEAT/CONTUSIONS) AS PER LOCAL CODES.

NOTE: CONTRACTOR SHALL INSTALL ANTI-THEFT SCREW SUPPLIED WITH TAP

- TO ORDER LAVATORY FAUCET, CONTACT: CITRON HYGIENE MAIN PHONE: 519-465-7163
- CONTACT: CHRISTINE MADER KINDRED COMMERCIAL LBS6807-1/3 S.S. SINK, 3 HOLE, 8" (203MM) CENTERS, 20-1/2" X 20" X 7" (521MM X 508MM X 178MM) DEEP, COUNTER MOUNTED, BACK LEDGE, GRADE 18-8 TYPE 302 STAINLESS STEEL, SINGLE COMPARTMENT, SATIN FINISHED RIM AND BOWL, SELF RIMMING. WITH 1 1/2" (38MM) TAIL PIECE. SOUND DEADENING AND MOUNTING KIT. 3-1/2" (89MM) CRUMB CUP STRAINER WITH 1-1/2" (38MM) TAIL PIECE. CHICAGO FAUCETS #1100-GN2FC-XK-CP C.P. 8" (203MM) C.C., DECK MOUNTED, SOLID CAST BRASS LEAD-FREE BODY, 1/4 TURN CERAMIC DISC VALVE CARTRIDGES, 9 3/4" (248MM) HIGH 5 1/4" (133MM) REACH RIGID/SWING GOOSENECK SPOUT WITH 6.0 LPM (1.6 GPM) INTEGRAL LAMINAR (NON AERATING) OUTLET, PLAIN SPOUT END AND CAST BRASS HOODED LEVER HANDLES. MCGUIRE #LFH170BV SUPPLIES, C.P., POLISHED BRASS, RIGID HORIZONTAL INTEGRAL COPPER SWEAT TUBE NIPPLES, 1/2" (12MM) I.D. X 5" (127MM) LONG, ALL BRASS 1/4 TURN BALL VALVE ANGLE STOPS WITH COMBINATION V.P. LOOSE KEY HANDLES, ESCUTCHEONS AND FLEXIBLE COPPER

RISERS. PROVIDE 'P' TRAP, #8912CB, FINISH: CHROME PLATE 1-1/2" (38MM) WITH CLEANOUT,

- UNION AND ESCUTCHEON. FIAT MSB2424 MOP SINK, 24" X 24" X 10" (610MM X 610MM X 254MM) DEEP, FLOOR MOUNTED, MOLDED-STONE 'SMC' ONE PIECE HOMOGENEOUS PRODUCT, AND INTEGRAL DRAIN WITH S.S. DOMED STRAINER AND LINT BASKET 3" (75MM) OUTLET. FIAT #830-AA FAUCET, R.C.P. 8" (203MM) C.C., WALL MOUNTED, SOLID CAST BRASS BODY, WITH CAST METAL CROSS HANDLES, WALL BRACE, INTEGRAL VACUUM BREAKER, INTEGRAL STOPS, PAIL HOOK, HOSE END AND TOP BRACE. BOBRICK MODEL #B-224 x 36 MOP HOLDER. FIAT #QDC3XH MOP SINK DRAIN GASKET, CONNECTION 3" (75MM) PIPE. FIAT #MSG24 WALL GUARDS.S.S. FOR ONE, TWO. OR THREE SIDES WITH CORNER BRACKET. FIAT #832-AA S.S. HOSE BRACKET WITH
- RUBBER GRIP. PROVIDE 48" (1219MM) FLEXIBLE, HEAVY-DUTY HOSE WITH CHROME

ACCORDANCE WITH LOCAL BARRIER FREE REQUIREMENTS.

TOILET - PRESSURE ASSISTED FLOOR MOUNTED FLUSH TANK (HWC) BARRIER FREE DESIGN) AMERICAN STANDARD CADET<sup>TM</sup> PRO RIGHT HEIGHT<sup>TM</sup>, ELONGATED TOILET 215AA.104. VITREOUS CHINA WITH EVERCLEAN™ ANTIMICROBIAL SURFACE WHICH INHIBITS THE GROWTH OF STAIN AND ODOR CAUSING BACTERIA, MOLD AND MILDEW, ELONGATED. SIPHON JET FLUSH ACTION BOWL, TWO (2) PIECE, 'SPEED CONNTECT' TANK ASSEMBLY, LEFT HAND TRIPLEVER (TRIP LEVER SHALL BE LOCATED ON TRANSFER SIDE), BOLTED TANK COVER, 305MM (12" ROUGH-IN, ELONGATED BOWL, 2-1/8" (54MM) FULLY GLAZED INTERNAL TRAPWAY. 10" X 12" (254MM X 305MM) LARGE WATER SURFACE. ULTRA-LOW CONSUMPTION 4.8L (1.28 GAL) PER FLUSH, CENTOCÓ #5321.110 EVERCLEAN<sup>TM</sup> TOILET SEAT, ELONGATED HEAVY DUTY ANTI-MICROBIAL SOLID PLASTIC OPEN FRONT WITH COVER REINFORCED STAINLESS STEEL CHECK HINGE, POSTS, WASHERS AND NUTS, PROVIDE WASTE OUTLET

SEAL RING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSTALL IN

- TOILET PRESSURE ASSISTED FLOOR MOUNTED FLUSH TANK (WC) AMERICAN STANDARD CADET<sup>TM</sup> PRO ELONGATED TOILET, VITREOUS CHINA WITH EVERCLEAN<sup>TM</sup> ANTIMICROBIAL SURFACE WHICH INHIBITS THE GROWTH OF STAIN AND ODOR CAUSING BACTERIA. MOLD AND MILDEW, FLONGATED, SIPHON JET FLUSH ACTION BOWL TWO (2) PIECE, 'SPEED CONNTECT' TANK ASSEMBLY, LEFT HAND TRIPLEVER (TRIP LEVER SHALL BE LOCATED ON TRANSFER SIDE). BOLTED TANK COVER, 305MM (12" ROUGH-IN. ELONGATED BOWL, 2-1/8" (54MM) FULLY GLAZED INTERNAL TRAPWAY, 10" X 12" (254MM X 305MM) LARGE WATER SURFACE, ULTRA-LOW CONSUMPTION 4.8L (1.28 GAL) PER FLUSH, CENTOCO #5321.110 EVERCLEANTM TOILET SEAT. ELONGATED HEAVY DUTY ANTI-MICROBIAL SOLID PLASTIC OPEN FRONT LESS COVER, REINFORCED STAINLESS STEEL CHECK HINGE, POSTS, WASHERS AND NUTS. PROVIDE WASTE OUTLET SEAL RING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- <u>URINAL WALL HUNG</u> (UR) AMERICAN STANDARD 6590.001 'WASHBROOK' LOW CONSUMPTION URINAL, WALL HUNG FOR FLUSH VALVE, VITREOUS CHINA, WASH OUT FLUSH ACTION 0.5L TO 3.8L (0.125 GAL TO 1.0 GAL.) PER FLUSH, EXTENDED SIDES FOR PRIVACY, INTEGRAL FLUSH SPREADER, 3/4" (19MM) TOP SPUD, WALL HANGERS, OPEN TRAP. AMERICAN STANDARD #7301242-100.0020A STRAINER, REMOVABLE STAINLESS STEEL. SLOAN #186-0.5 ES-S ROYAL OPTIMA ELECTRONIC 'NO-TOUCH' FLUSH VALVE UNIT, C.P. LOW CONSUMPTION, 1.9 LPF (0.5 GPF) FACTORY SET FLOW, QUIET ACTION WITH INFRARED PROXIMITY SENSOR, SOLENOID FLUSH CONTROLLER, CIRCUITRY, IN S.S. WALL ACCESS PLATE, TRIPLE SEAL HANDLE, DUAL FILTERED BY-PASS. 'PERMEX' DIAPHRAGM TYPE, HIGH PRESSURE VACUUM BREAKER, V.P. SMOOTH DESIGN STOP CAP AND BACK-CHECK ANGLE STOP, SLOAN #EL-154 TRANSFORMER, 120/24 VAC 50 VA. WATTS #WUCO URINAL WALL ACCESS CLEANOUT, WITH 4-1/4" (108MM) V.P. ROUND S.S. ACCESS COVER. WATTS #CA-321 URINAL CARRIER, WITH STEEL PIPE LEGS, BLOCK BASE FEET SUPPORTS AND BEARING PLATES.
- NOTE: ONE TRANSFORMER IS REQUIRED IN EACH WASHROOM TO FEED WC'S AND UR. TRANSFORMER SHALL BE LOCATED IN CEILING SPACE ABOVE CORRIDOR ACCESSIBLE FROM T-BAR CEILING. POWER WIRING TO TRANSFORMERS SHALL BE BY ELECTRICAL CONTRACTOR. ALL LOW VOLTAGE CONTROL WIRING AFTER TRANSFORMER TO ALL EQUIPMENT SHALL BE BY THE PLUMBING CONTRACTOR.
- REFER TO PLUMBING FIXTURE INSTALLATION DETAILS ON ARCHITECTURAL

MOUNTING HEIGHT: TOP OF RIM: 15-1/4" A.F.F.

HAWS MODEL 7360BT-7460BT WALL MOUNTED EYE/FACE WASH AND HAWS MODEL 9102 DUST COVER, SHALL INCLUDE ALL STAINLESS STEEL 11" ROUND BOWL AND COVER, AN ANTIMICROBIALLY TREATED AXION MSRI EYE/FACE WASH HEAD TO HELP PROTECT

FEATURE INVERTED DIRECTIONAL LAMINAR FLOW WHICH ACHIEVES ZERO VERTICAL VELOCITY SUPPLIED BY AN INTEGRAL 3.7 FLOW CONTROL. CHROME-PLATED BRASS STAY-OPEN BALL VALVE EQUIPPED WITH STAINLESS STEEL BALL AND STEM, AND CHROME-PLATED BRASS IN-LINE 50 X 50 MESH WATER STRAINER. UNIT SHALL ALSO INCLUDE CAST-ALUMINUM CHROMATE PROTECTED WALL BRACKET, YELLOW PLASTIC POP-OFF DUST COVER FOR EYEWASH HEAD, TAILPIECE AND TRAP, UNIVERSAL SIGN, 1/2" IPS

HAWS MODEL: TWBS.EWE C/W TEMPERATURE GAUGE

HOT WATER TANK ELECTRIC (HWT) RUUD/RHEEM: CEGSP-30

NOTE: ALL WIRING BY ELECTRICAL CONTRACTOR

PRIMER TO BE: ZURN: Z-1002

NON FREEZE HOSE HYDRANTS: ANCON MODEL HY-725, COMPLETE WITH VACUUM BREAKER NND 34" HOSE CONNECTION, VERIFY REQUIRED LENGTH WITH DETAILS OF WALL CONSTRUCTION ON ARCHITECTURAL DRAWINGS.

FLOOR DRAIN: ZURN MODEL ZN-211-B (NICKEL BRONZE FINISH) WITH DEEP SEAL TRAP AND

ARCHITECTURAL FOR PAINT COLOUR. HINGED DOOR WITH CONCEALED PIVOT PINS C/W FLUSH MOUNTED, SCREWDRIVER OPERATED CAM. 10. ALL FLOOR DRAINS TO BE PRIMED AND VENTED AS REQUIRED BY CODE. SUPPLY AND

INSTALL PEX PIPE TO EACH TRAP, ROUGH-IN FROM CLOSEST LAVATORY. AUTO-TRAP

ZURN/WILKINS NO. 600-C-P TO MAINTAIN WATER PRESSURE BETWEEN 25 TO 75 PSI.

AND LOADING DOCK UNIT HEATER. PROVIDE ALL NECESSARY DUCT SUPPORTS, VALVES UNIONS PRESSURE REGULATING VALVES, ALL WORK TO CONFORM TO GAS CODE A. <u>PIPING AND FITTINGS:</u> ALL GAS PIPING USED ON THIS JOB SHALL BE SCHEDULE 40

SUPPLY AND INSTALL A COMPLETE GAS PIPING DISTRIBUTION TO ALL ROOF TOP AC UNITS

AGAINST THE GROWTH OF MOLD AND MILDEW ON THE TREATED COMPONENTS, AND SHALL

EMERGENCY EYE-WASH THERMOSTATIC MIXING VALVE (EMV):

LAVATORY THERMOSTATIC MIXING VALVE (LMV): WATTS MODEL: 1170C-US-M2 ADJUST TEMPERATURE TO 105°F

CAPACITY: 30 US GALLONS ELEMENT: 3000 WATTS 208V / 1PH / 60HZ

DOMESTIC HOT WATER RECIRCULATION PUMP: ARMSTRONG MODEL S25, 1/12HP, 120V/1PH/60HZ, ALL BRONZE

FLOOR CLEAN-OUTS: ZURN MODEL ZN-1602 (NICKEL BRONZE FINISH FOR FINISHED AND

ESSED VALVE BOX: MIFAB MI-VB 16-GAUGE SATIN COAT STEEL DOOR AND FRAME WITH A 20 GAUGE SATIN COAT STEEL BOX. BOX SHALL HAVE A PRIMED WHITE FINISH. REFER TO

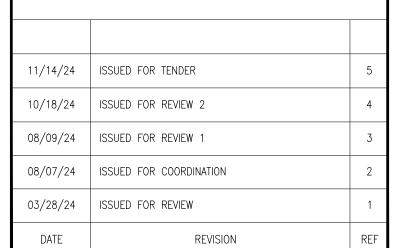
11. SUPPLY AND INSTALL ON WATER ENTRY BACK FLOW PREVENTER ZURN/WILKINS 950XL. C/W FUNNEL PIPED TO DRAIN IN SPRINKLER ROOM. PROVIDE PRESSURE REDUCING VALVE

STANDARD WEIGHT STEEL PIPING AND SHALL BE IN ACCORDANCE WITH "CANADIAN STANDARDS ASSOCIATION" SPECIFICATIONS FOR WELDED AND SEAMLESS PIPE NO.B-63. ALL FITTINGS SHALL BE MALLEABLE IRON OR STEEL AND SHALL CONFORM TO "ANSI" STANDARD B16.3 "MALLEABLE-IRON SCREWED FITTINGS." ALL PIPES OVER 2" SHALL BE WELDED. EXCEPT AT VALVES AND CONNECTIONS TO APPARATUS, WHERE UNIONS OR FLANGES SHALL BE USED. ALL WELDED FITTINGS SHALL BE PRE-FABRICATED TYPE OF RECOGNIZED MANUFACTURE.









THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHER FAILURE TO OBTAIN AND / OR FOLLOW THE ENGINEER'S CUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH THIS DRAWING IS THE PROPERTY OF GOODKEY WEEDMARK & ASSOCIATES LIMITED AND ALL COPYRIGHTS ARE RESERVED. NO USE OF THIS DRAWING MAY BE MADE WITHOUT EXPRESS WRITTEN CONSENT. DO NOT SCALE DRAWINGS

L'INCÉNIFUR DÉCLINE TOUTE RESPONSABILITÉ DÉCOULANT DE PROBLÈMES FAISANT

SUITE AU NON RESPECT DES PLANS, DEVIS ET DE L'INTENTION DU CONCEPT QU'ILS INDIQUENT OU DE TOUS LES PROBLÈMES POUVANT RESULTER DU DÉFAUT D'OBTENIR ET / OU DE SUIVRE LES CONSEILS DE L'INGÉNIEUR EN CE QUI

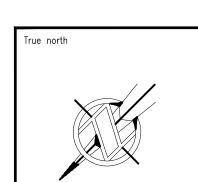
ONCERNE LES ERREURS, OMISSIONS, INCONSISTANCES, AMBIGUITÉS OU CONFLITS

CE DESSIN EST LA PROPRIÉTÉ LITTÉRAIRE DE GOODKEY WEEDMARK & ASSOCIATES LIMITED ET TOUS LES DROITS SONT RÉSERVÉS. L'UTILISATION EST INTERDITE SANS



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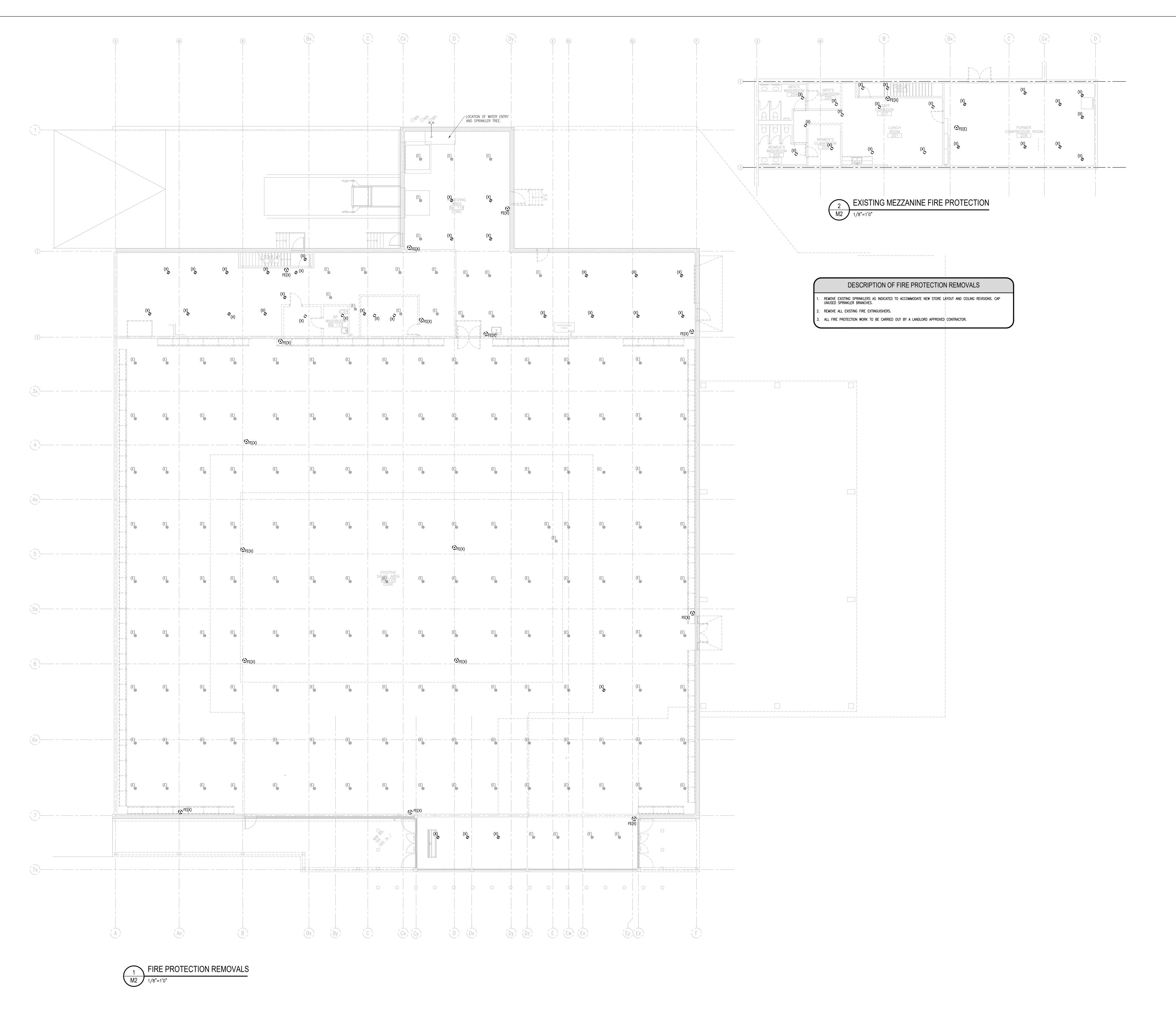
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Drawing title/Titre du dessin MECHANICAL DRAWING LIST **LEGEND & SPECIFICATIONS** 

AS NOTED | 2024-221







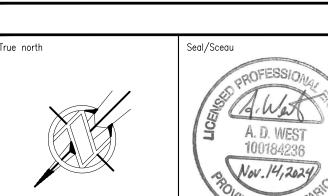


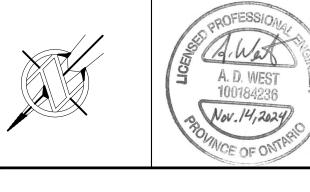
11/14/24	ISSUED FOR TENDER	5
10/18/24	ISSUED FOR REVIEW 2	4
08/09/24	ISSUED FOR REVIEW 1	3
08/07/24	ISSUED FOR COORDINATION	2
03/28/24	ISSUED FOR REVIEW	1
DATE	REVISION	REF

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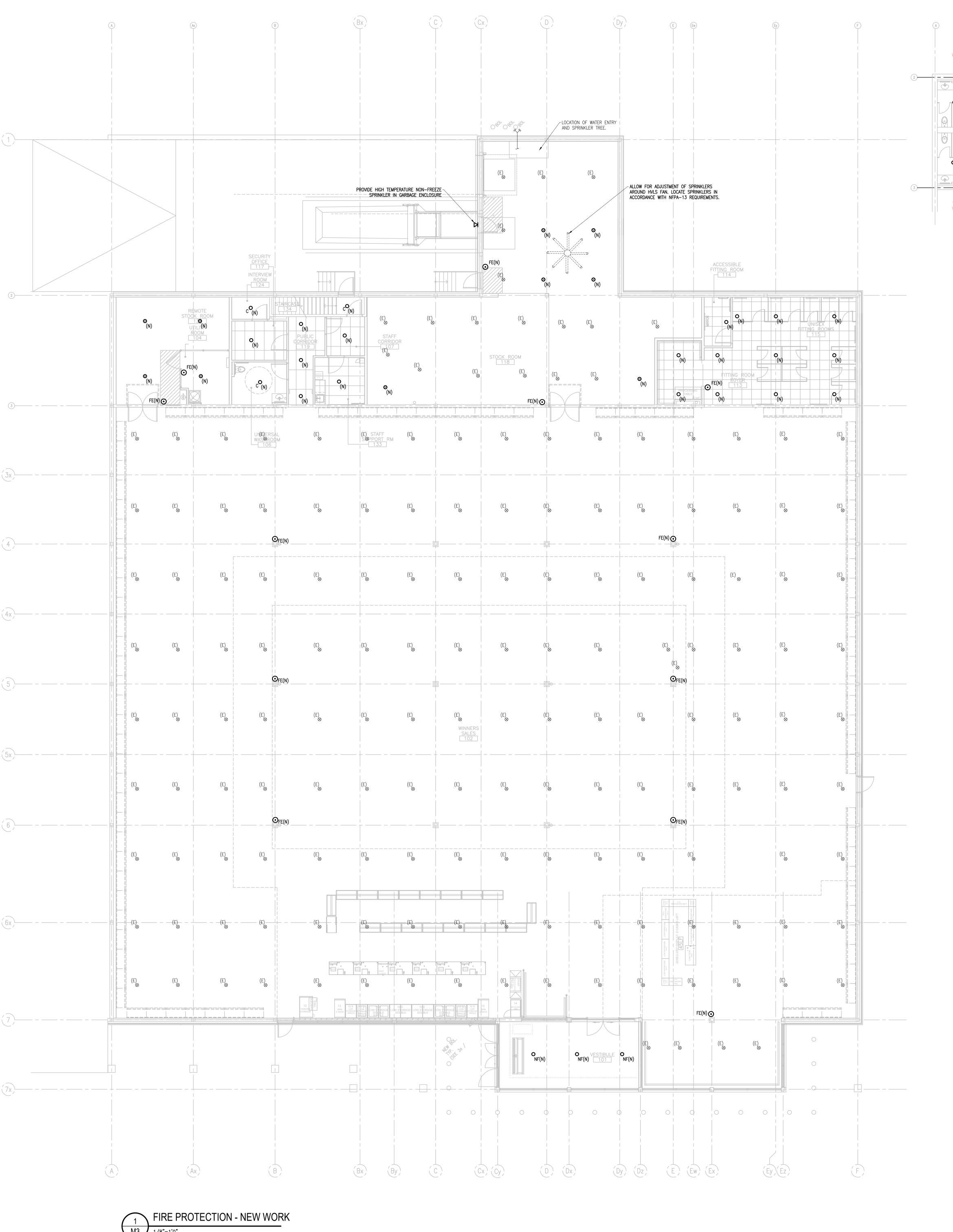


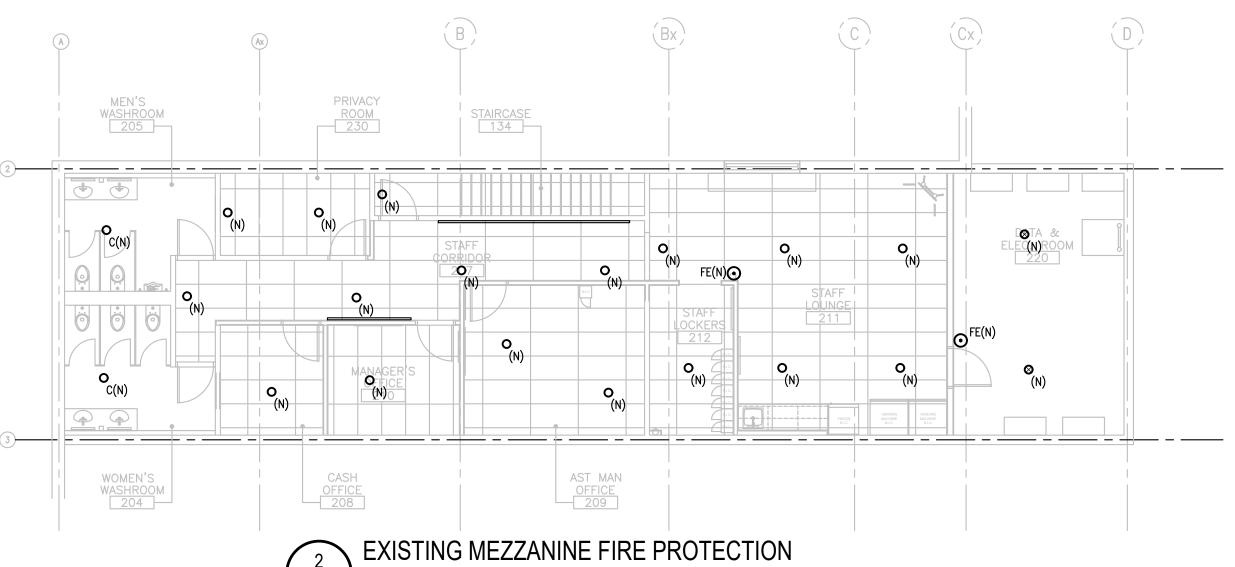
WINNERS FIT-OUT ROCKLAND PLAZA

Drawing title/Titre du dessin

MECHANICAL FIRE PROTECTION -REMOVALS

Scale		Project no./No. du projet
Échelle	AS NOTED	2024-221
Design by	LUANCEN	Drawing/Dessin
Conçu par	J. HANSEN	
Drawn by Dessiné par	R. CHEN	NNO
	K. CHEN	
Reviewed by	A WEST	
Examiné par	A. WEST	OF





DESCRIPTION OF FIRE PROTECTION NEW WORK

PROVIDE NEW SPRINKLERS TO ACCOMMODATE NEW STORE LAYOUT AND CEILING REVISIONS. SPRINKLER COVERAGE SHALL CONFORM TO NFPA 13 — FOR ORDINARY HAZARD GROUP 2.

1.1. SPRINKLERS IN T—BAR CEILINGS SHALL BE SEMI—RECESSED TYPE.

1.2. SPRINKLERS IN DRYWALL CEILINGS SHALL BE CONCEALED TYPE.

1.3. SPRINKLERS IN OPEN CEILING AREAS SHALL BE UPRIGHT TYPE.

1.4. COORDINATE CEILING TYPES WITH ARCHITECTURAL DRAWINGS.

PROVIDE NEW FIRE EXTINGUISHERS TO SUIT NEW STORE LAYOUT (INCLUDING WITHIN EXISTING FIRE HOSE CABINETS). REFER TO SPECIFICATION FOR FIRE EXTINGUISHER TYPES.

ALL FIRE PROTECTION WORK TO BE CARRIED OUT BY A LANDLORD APPROVED CONTRACTOR.

STOCKROOM USE

AS THE STOCKROOM SPRINKLER SYSTEM IS DESIGNED FOR ORDINARY HAZARD GROUP 2, TENANT MUST ENSURE THE FOLLOWING REQUIREMENTS ARE MET:

• LIMIT THE STORAGE HEIGHT OF ALL ITEMS TO A MAXIMUM OF 10 FT.

• ENSURE QUANTITY OF GROUP A PLASTICS IN THE STOCKROOM DOES NOT EXCEED 10 PALLET LOADS.

• GROUP A PLASTICS SHALL BE RANDOMLY DISPERSED WITH NO ADJACENT LOADS IN ANY DIRECTION.



ARCHITECT



TENANT



 11/14/24
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 5

 10/18/24
 ISSUED FOR REVIEW 2
 4

 08/09/24
 ISSUED FOR REVIEW 1
 3

 08/07/24
 ISSUED FOR COORDINATION
 2

 03/28/24
 ISSUED FOR REVIEW
 1

 DATE
 REVISION
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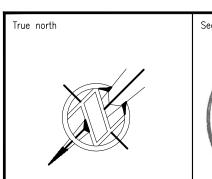
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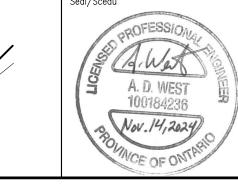
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WINNERS FIT-OUT ROCKLAND PLAZA

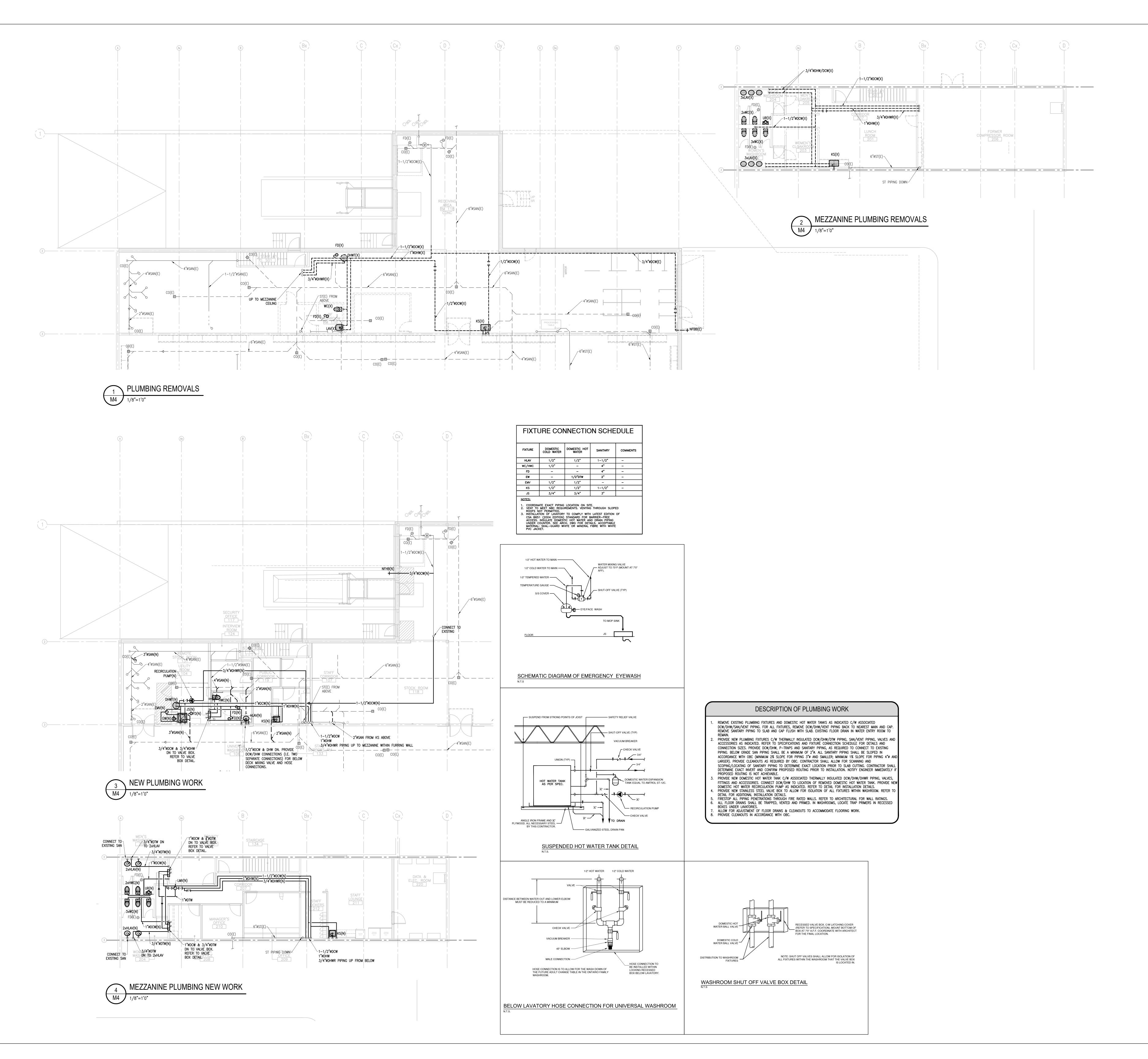
Drawing title/Titre du dessin

MECHANICAL

FIRE PROTECTION - NEW

WORK

Scale	10 110755	Project no./No.
Échelle	AS NOTED	2024-22
Design by	LUANCEN	Drawing/Dessin
Conçu par	J. HANSEN	
Drawn by	R. CHFN	$N M^{C}$
Dessiné par	R. CHEN	IVI.





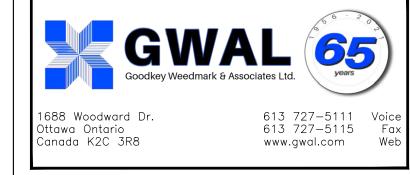


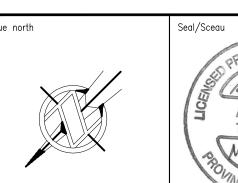


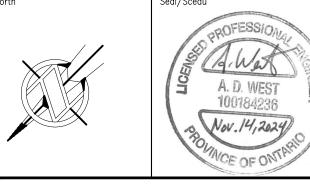
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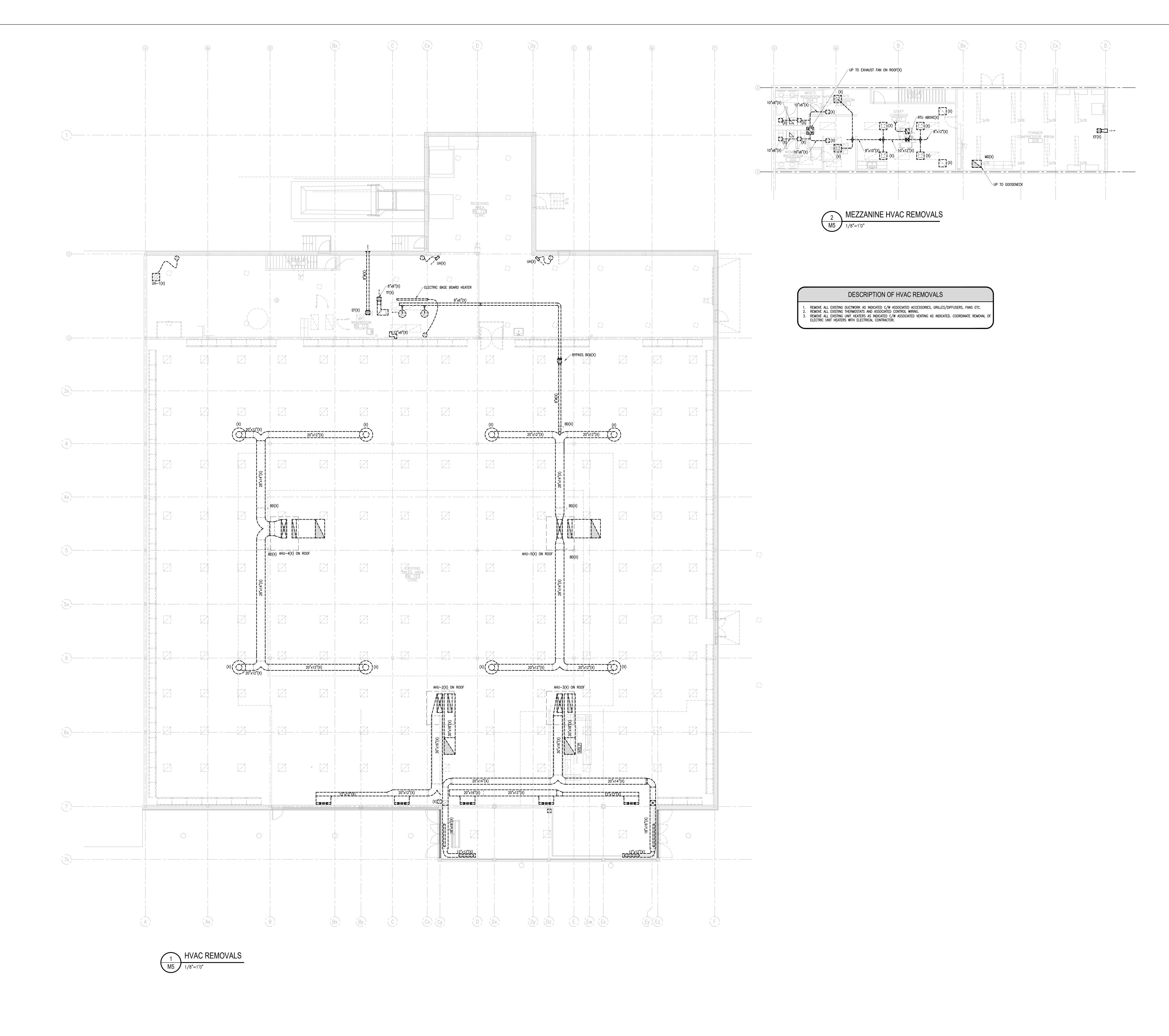




Project/Projet WINNERS FIT-OUT ROCKLAND PLAZA

Drawing title/Titre du dessin MECHANICAL PLUMBING PLAN REMOVALS & NEW WORK

	Échelle	AS NOTED	2024-221
Conçu par	Design by Conçu par	J. HANSEN	Drawing/Dessin





ARCHITECT





 11/14/24
 ISSUED FOR TENDER
 5

 10/18/24
 ISSUED FOR REVIEW 2
 4

 08/09/24
 ISSUED FOR REVIEW 1
 3

 08/07/24
 ISSUED FOR COORDINATION
 2

 03/28/24
 ISSUED FOR REVIEW
 1

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 REVISION
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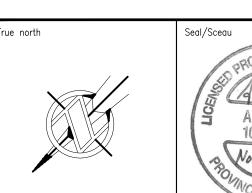
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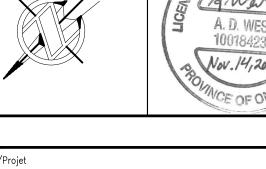
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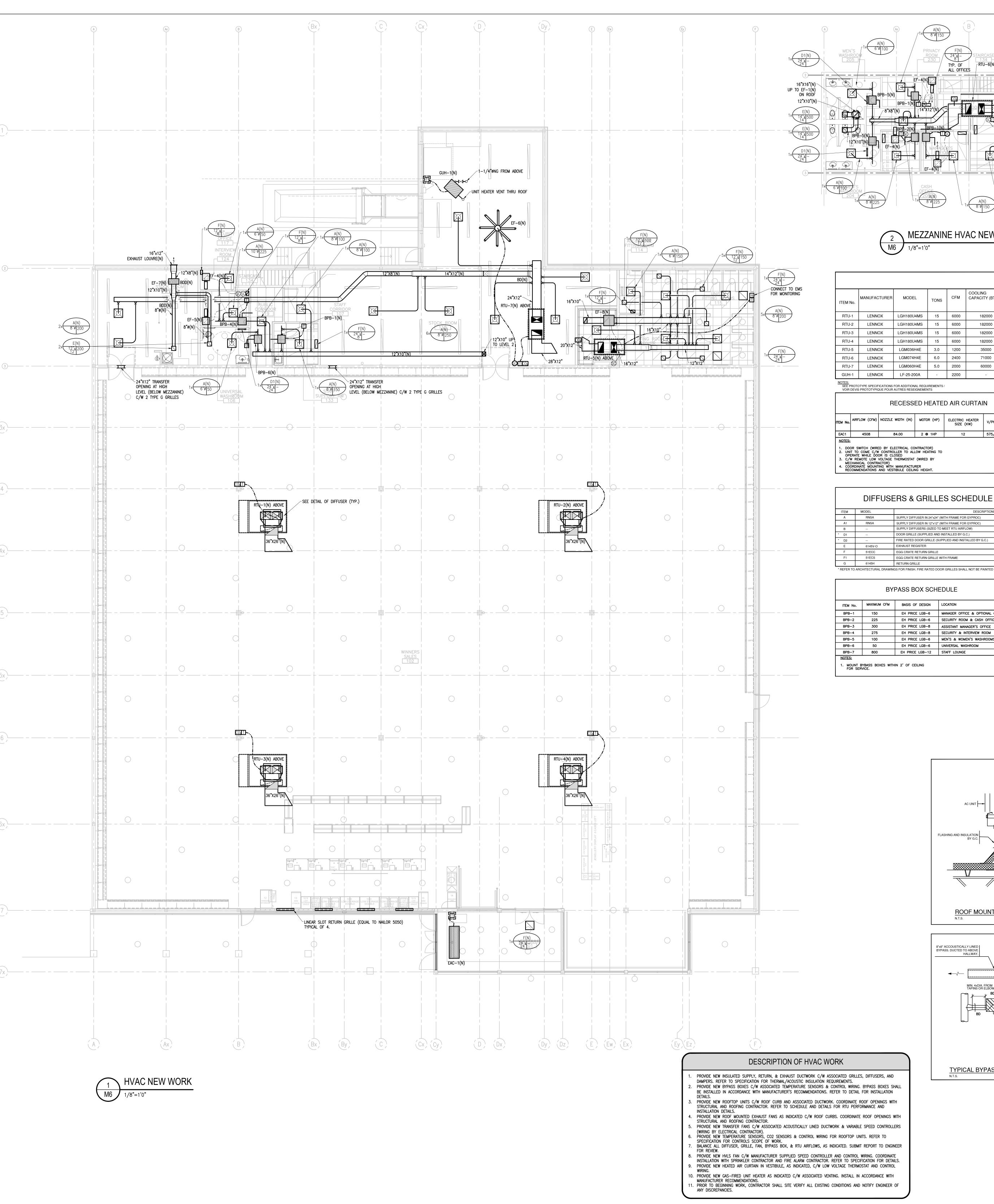
WINNERS FIT-OUT ROCKLAND PLAZA

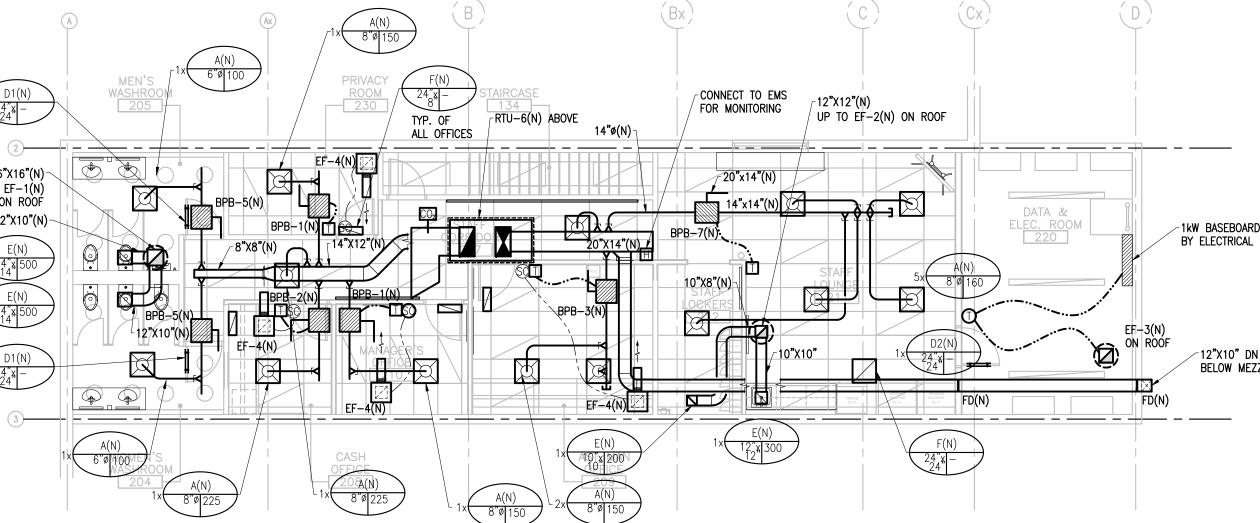
Drawing title/Titre du dessin

MECHANICAL

HVAC PLAN - REMOVALS

Scale	AC NOTED	Project no./No. du projet
Échelle	AS NOTED	2024-221
Design by	LUANCEN	Drawing/Dessin
Conçu par	J. HANSEN	
Drawn by	D CLIEN	NMS
Dessiné par	R. CHEN	





							HVA	AC UN	IT SO	CHEDUI	F								
ITEM No.	MANUFACTURER	MODEL	TONS	CFM	COOLING CAPACITY (BTU/HR)	HEATING GAS INPUT (BTU/HR)	COMI	PRESSOR RLA (total)		ENSER FANS FLA (total)		R MOTOR FLA	P( QTY	OWER EXI	HAUST FLA (total)	MCA	V/PH/HZ	(LBS)	SERVICING
RTU-1	LENNOX	LGH180U4MS	15	6000	182000	260000	3	22.8	4	4.0	5	6.1	2	1/3	4.0	37.0	575/3/60	2938	SALES AREA
RTU-2	LENNOX	LGH180U4MS	15	6000	182000	260000	3	22.8	4	4.0	5	6.1	2	1/3	4.0	37.0	575/3/60	2938	SALES AREA
RTU-3	LENNOX	LGH180U4MS	15	6000	182000	260000	3	22.8	4	4.0	5	6.1	2	1/3	4.0	37.0	575/3/60	2938	SALES AREA
RTU-4	LENNOX	LGH180U4MS	15	6000	182000	260000	3	22.8	4	4.0	5	6.1	2	1/3	4.0	37.0	575/3/60	2938	SALES AREA
RTU-5	LENNOX	LGM036H4E	3.0	1200	35000	65000	1	4.0	1	1.6	0.5	1.7	-	-	-	9.0	575/3/60	933	FITTING ROOMS
RTU-6	LENNOX	LGM074H4E	6.0	2400	71000	150000	1	6.8	1	1.1	1.5	2.4	-	-	-	12.0	575/3/60	933	OFFICES
RTU-7	LENNOX	LGM060H4E	5.0	2000	60000	150000	1	5.5	1	1.6	1	3.0	-	-	-	12.0	575/3/60	1025	STOCKROOM
GUH-1	LENNOX	I F-25-200A	_	2200	_	195.000		_	_	_	1/8	2.1	_	_	_	2.1	120/1/60	175	LOADING DOCK HEATER

ALL POWER WIRING BY ELECTRICAL CONTRACTOR (E.C.)
ALL CONTROL WIRING BY AC CONTRACTOR (A.C.)

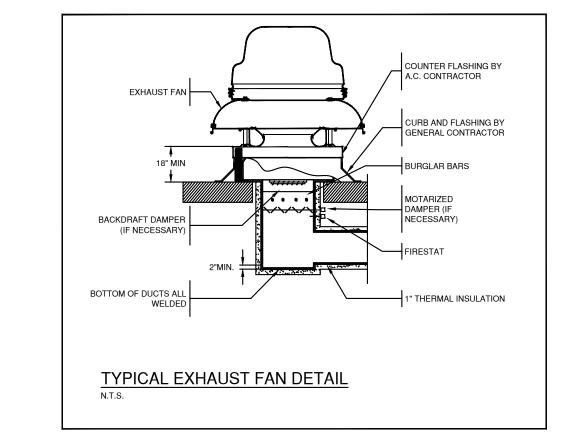
1. VIBRATION ISOLATION
2. FLEXIBLE CONNECTION
3. INLINE ADAPTOR
4. BACKDRAFT DAMPER
5. MOTORIZED DAMPER (C/W END SWITCH RELAY) INTERLOCKED WITH FAN BY CONTROLS CONTRACTOR
6. THERMOSTAT (WIRING BY A.C. CONTRACTOR) MOUNTED AT 43" AFF
7. UNFUSED DISCONNECT UNDER HOOD (WIRING BY E.C.)
8. UNFUSED DISCONNECT AT FAN (WIRING BY E.C.)
9. VARIABLE SPEED CONTROLLER EQUAL TO FS-5 (WIRING BY E.C.).
COORDINATE INSTALLATION HEIGHT WITH ARCHITECTURAL.
10. FIRESTAT (WIRING BY E.C.)
11. WIRED THROUGH LIGHT SWITCH (WIRING BY E.C.)
12. FUNCTION CONTROLLED BY EMS.
13. C/W CEILING GRILLE
14. C/W ROOF CURB
15. ---

15. ———
16. FAN ON/OFF CONTROL TO BE BY NOVAR SYSTEM. NOVAR SYSTEM TO MONITOR FAN.

RECESSED HEATED AIR CURTAIN									
ITEM No.	AIRFLOW (CFM)	NOZZLE WIDTH (IN)	MOTOR (HP)	ELECTRIC HEATER SIZE (KW)	V/PH/HZ	BASIS OF DESIGN			
EAC1	4508	84.00	2 @ 1HP	12	575/3/60	BERNER ARC16-2084-E			
2. UNI OPI 3. C/V	OR SWITCH (WIRE IT TO COME C/W ERATE WHILE DO W REMOTE LOW CHANICAL CONTR	VOLTAGE THERMOSTAT	OW HEATING TO						

DIFFUSERS & GRILLES SCHEDULE "NAILOR"						
ITEM	MODEL	DESCRIPTIONS				
Α	RNSA	SUPPLY DIFFUSER IN 24"x24" (WITH FRAME FOR GYPROC)				
A1	RNSA	SUPPLY DIFFUSER IN 12"x12" (WITH FRAME FOR GYPROC)				
В		SUPPLY DIFFUSERS (SIZED TO MEET RTU AIRFLOW)				
* D1		DOOR GRILLE (SUPPLIED AND INSTALLED BY G.C.)				
* D2		FIRE RATED DOOR GRILLE (SUPPLIED AND INSTALLED BY G.C.)				
Е	6145V-O	EXHAUST REGISTER				
F	51ECC	EGG CRATE RETURN GRILLE				
F1	51ECS	EGG CRATE RETURN GRILLE WITH FRAME				

BYPASS BOX SCHEDULE									
ITEM No.	MAXIMUM CFM	BASIS OF DESIGN	LOCATION						
BPB-1	150	EH PRICE LGB-6	MANAGER OFFICE & OPTIONAL OFFICES						
BPB-2	225	EH PRICE LGB-6	SECURITY ROOM & CASH OFFICE						
BPB-3	300	EH PRICE LGB-8	ASSISTANT MANAGER'S OFFICE						
BPB-4	275	EH PRICE LGB-8	SECURITY & INTERVIEW ROOM						
BPB-5	100	EH PRICE LGB-6	MEN'S & WOMEN'S WASHROOMS						
BPB-6	50	EH PRICE LGB-6	UNIVERSAL WASHROOM						
BPB-7 800		EH PRICE LGB-12	STAFF LOUNGE						
NOTES:									
MOUNT BYBASS BOXES WITHIN 2' OF CEILING     FOR SERVICE.									



FAN SCHEDULE

ACE-B-120C3B 1000 3/8" 1/4 H.P. 15-1/2"x15-1/2" 120/1/60 1,2,5,7,12,14

ACE-B-80C3B 500 3/8" 1/4 H.P. 13-1/2"x13-1/2" 120/1/60 1,2,5,7,12,14

 ACE—B-100C3B
 750
 3/8"
 1/4 H.P.
 13-1/2"x13-1/2"
 120/1/60
 1,2,5,6,8,14

 GC-342
 150
 3/8"
 0.75 A
 - 120/1/60
 1,2,4,9,13

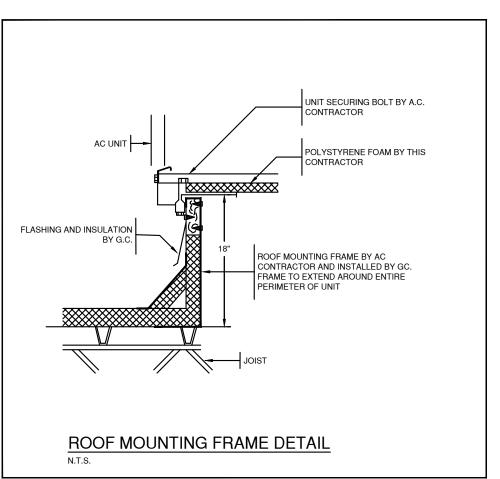
 GC-622
 400
 1/4"
 1.42 A
 - 120/1/60
 1,2,4,9,13

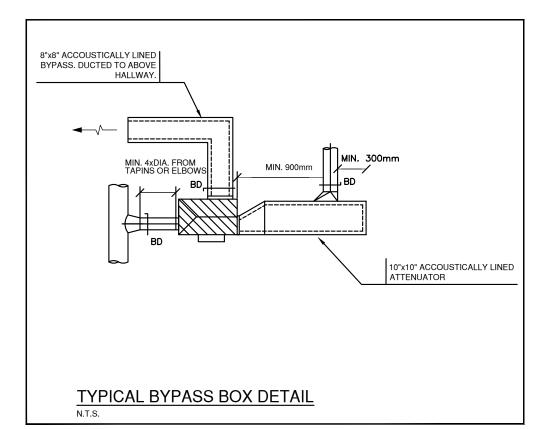
850 3/8" 0.5 H.P. --

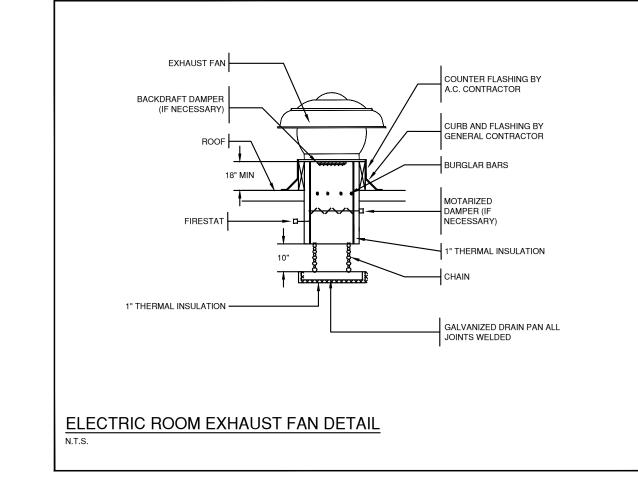
-- -- 10 A --- 120/1/60 REFER TO SPECIFICATION STOCKROOM

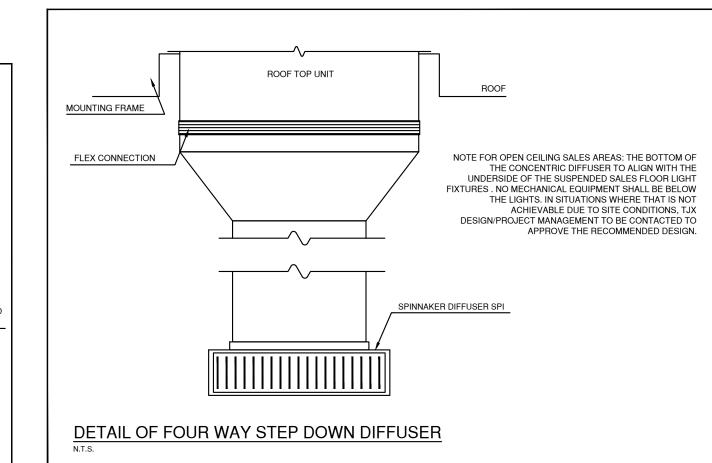
120/1/60 1,2,4,9,16

FITTING ROOM CEILING TRANSFER











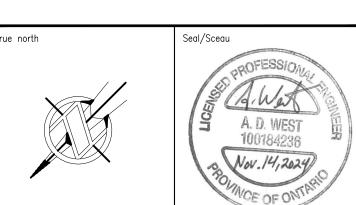




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	10/18/24	ISSUED FOR REVIEW 2	4
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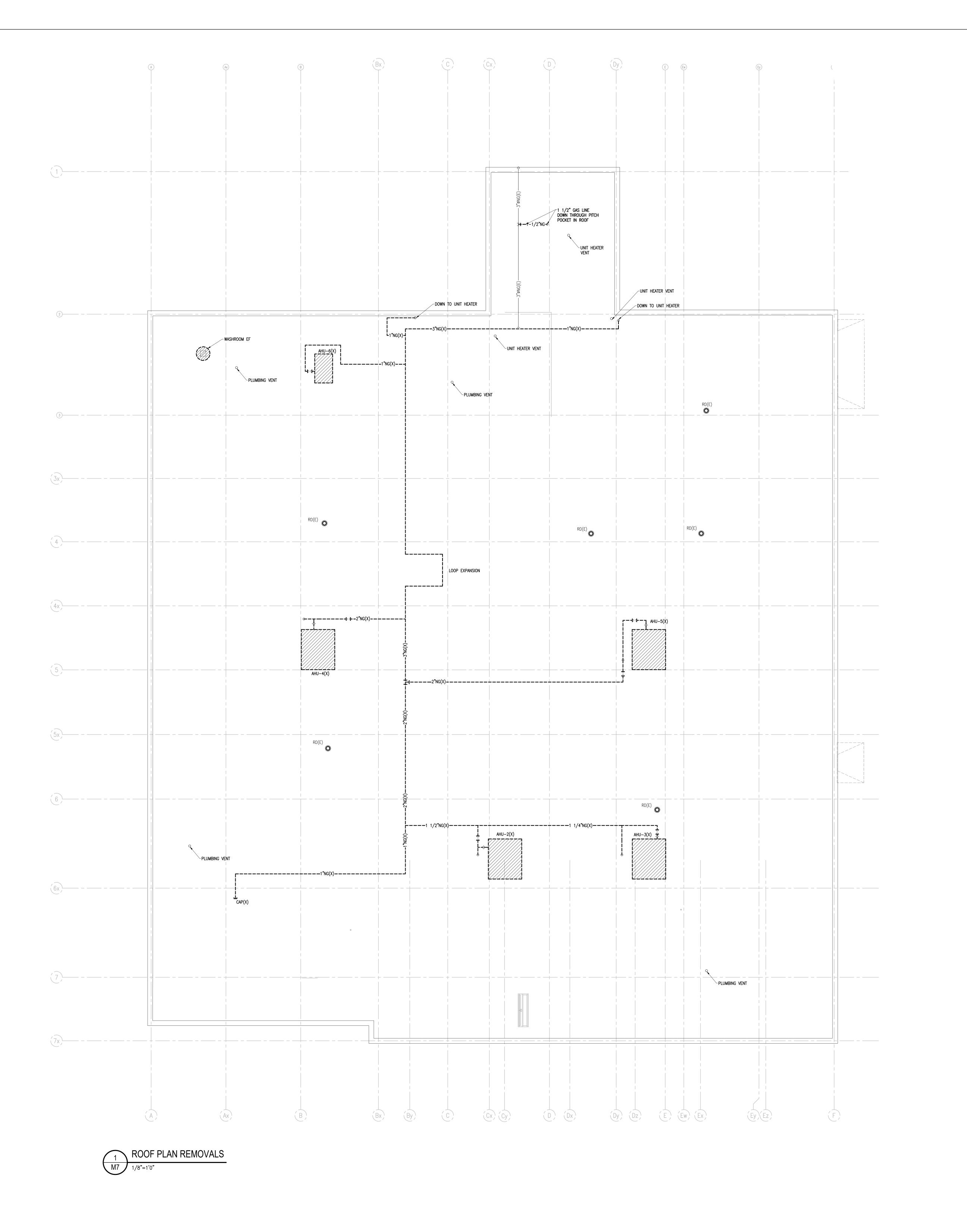




Project/Projet WINNERS FIT-OUT ROCKLAND PLAZA

Drawing title/Titre du dessin MECHANICAL HVAC PLAN - NEW WORK

Scale Échelle	AS NOTED	Project no./No. du proje
Design by Conçu par	J. HANSEN	Drawing/Dessin
Drawn by Dessiné par	R. CHEN	M6



DESCRIPTION OF HVAC REMOVALS

REMOVE ALL EXISTING NATURAL GAS PIPING AS INDICATED.
 REMOVE EXISTING EXHAUST FANS AND ROOFTOP UNITS AS INDICATED C/W ASSOCIATED ROOF CURBS. COORDINATE SEALING OF EXISTING OPENING WITH ARCHITECTURAL PLANS.







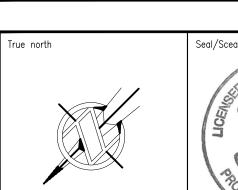
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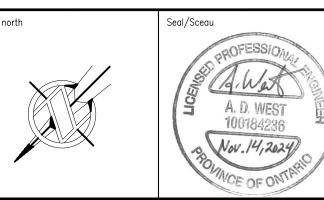
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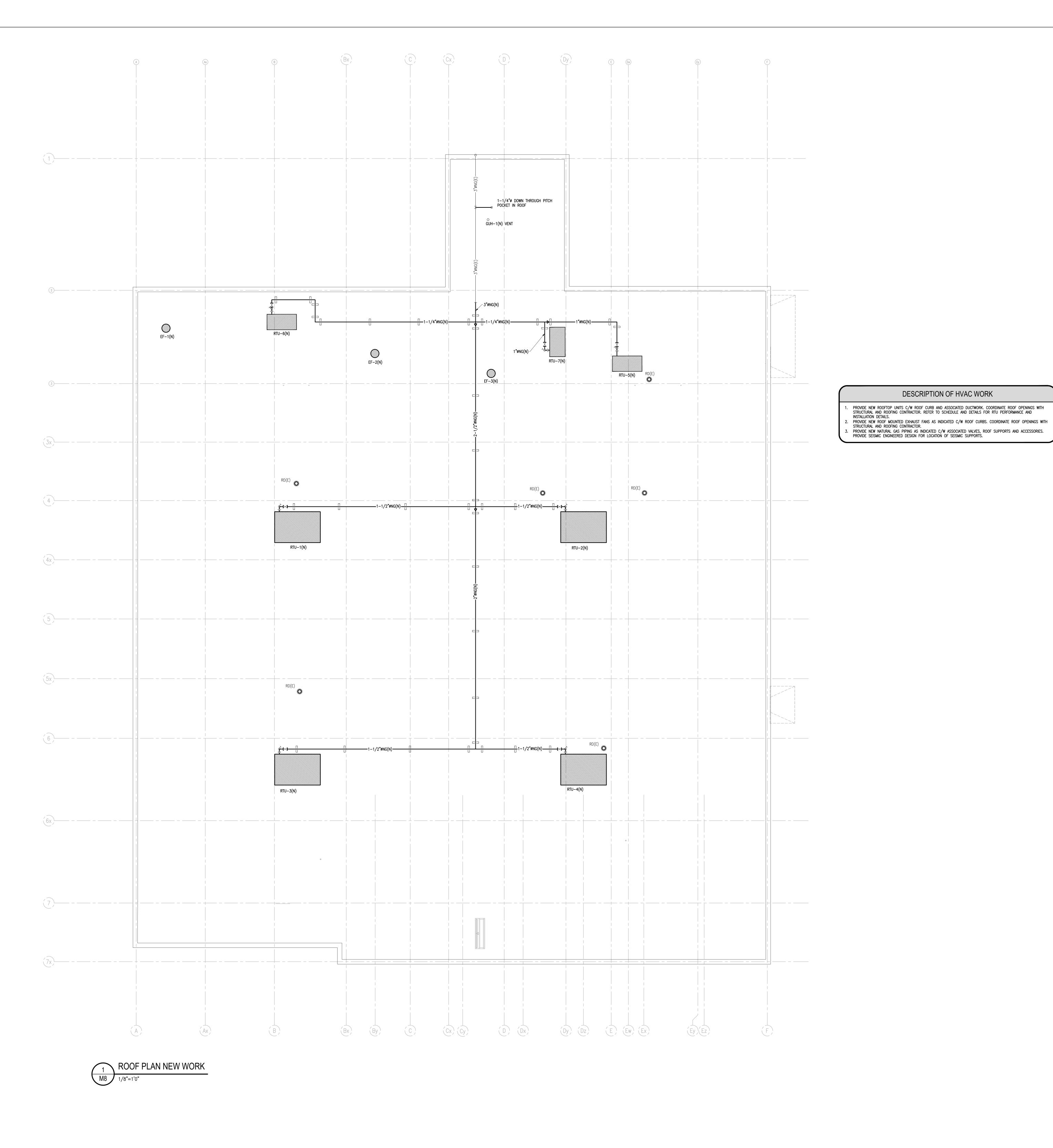


WINNERS FIT-OUT ROCKLAND PLAZA

Drawing title/Titre du dessin

MECHANICAL ROOF PLAN - REMOVALS

Scale	AC NOTED	Project no./No. du pr
Échelle	AS NOTED	2024–221
Design by	J. HANSEN	Drawing/Dessin
Conçu par	J. HANSEN	
Drawn by	D CLIEN	N
Dessiné par	R. CHEN	IVI <i>1</i>
Б		







DESCRIPTION OF HVAC WORK

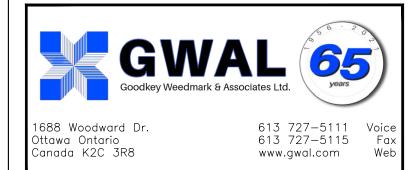


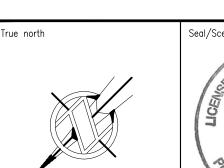
11/14/24 ISSUED FOR TENDER 10/18/24 ISSUED FOR REVIEW 2 08/09/24 ISSUED FOR REVIEW 1 08/07/24 ISSUED FOR COORDINATION 03/28/24 ISSUED FOR REVIEW

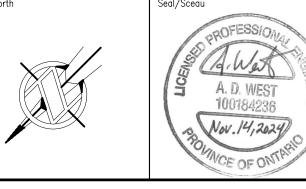
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NE PAS MESURER LES DESSINS A L'ÉCHELLE







WINNERS FIT-OUT ROCKLAND PLAZA

Drawing title/Titre du dessin

MECHANICAL ROOF PLAN - NEW WORK

Scale	10 110750	Project no./No. du projet
Échelle	AS NOTED	2024–221
Design by	J. HANSEN	Drawing/Dessin
Conçu par	J. HANSEN	
Drawn by	R. CHFN	N/Q
Dessiné par	R. CHEN	IVIO
Paviawad by		•