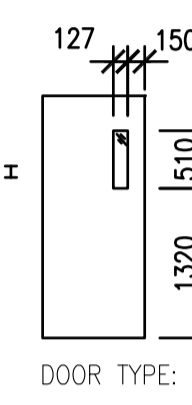


NEW PARTITION: 16 GYPSUM BOARD EACH SIDE AND 152 STEEL STUDS @600 o.c.. TOP OF PARTITION 3200MM. FINISH AND PAINT. FRAME CEILING OF VESTIBULE SAME AS WALL.

DOOR 143: PRESSED STEEL FRAME AND HOLLOW METAL DOOR, WIRED GLAZING, PAINT.



ROOM 125: PROVIDE ONE ROLLED RUBBER CURB FORMING AN ARCH 63.5MM HIGH WITH A BASE OF 305MM AND APPROXIMATE LENGTH 1525MM. COLOUR: BLACK. ACCEPTABLE MANUFACTURER: SHERCOM INDUSTRIES, "SPEED BUMPS" OR EQUIVALENT. INSTALL RUBBER CURB TIGHT TO FACE OF DOUBLE DOORS (CORRIDOR SIDE) AND MITER INTO DOOR FRAME. INSTALL WITH MANUFACTURER RECOMMENDED ADHESIVE AND MECHANICAL FASTENERS.

GENERAL NOTE:
 1. REPAIR AND PAINT ALL PARTITIONS FROM THE MECHAICAL/ELECTRICAL REMOVALS.
 2. FIRESTOP ALL PENETRATIONS INTO RATED PARTITIONS—REFER TO CEILING PLAN FOR RATED PARTITIONS.

1 MAIN FLOOR PLAN
 A2.1 1:100

LIST OF DRAWINGS:

ARCHITECTURAL	MECHANICAL	ELECTRICAL
A2.1 MAIN FLOOR PLAN	M1.1 MAIN FLOOR PLAN/ MECHANICAL DEMOLITION	E1.1 MAIN FLOOR DEMOLITION PLAN
A2.2 MEZZANINE PLAN	M1.2 MEZZANINE FLOOR PLAN / MECHANICAL DEMOLITION	E1.2 MEZZANINE DEMOLITION PLAN
A2.3 MAIN FLOOR REFLECTED CEILING PLAN	M2.1 MAIN FLOOR PLAN / VENTILATION	E2.1 MAIN FLOOR ELECTRICAL POWER PLAN
A2.4 MEZZANINE REFLECTED CEILING PLAN	M2.2 MEZZANINE FLOOR PLAN / VENTILATION	E2.2 MEZZANINE ELECTRICAL POWER PLAN
A3.1 EXTERIOR ELEVATIONS	M3.1 THERMODYNAMICS	E3.1 MECHANICAL SCHEDULE AND SYMBOL SCHEDULE
A3.2 DETAILS	M4.1 SCHEDULES / DETAILS	E4.1 PANEL SCHEMATICS



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'TENDER PACKAGE ONE'
MECHANICAL UPGRADE WORKS BUILDING REGINA, SASK.

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 RP

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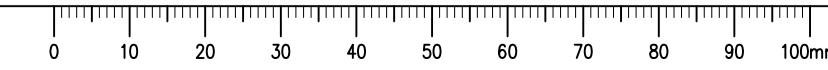
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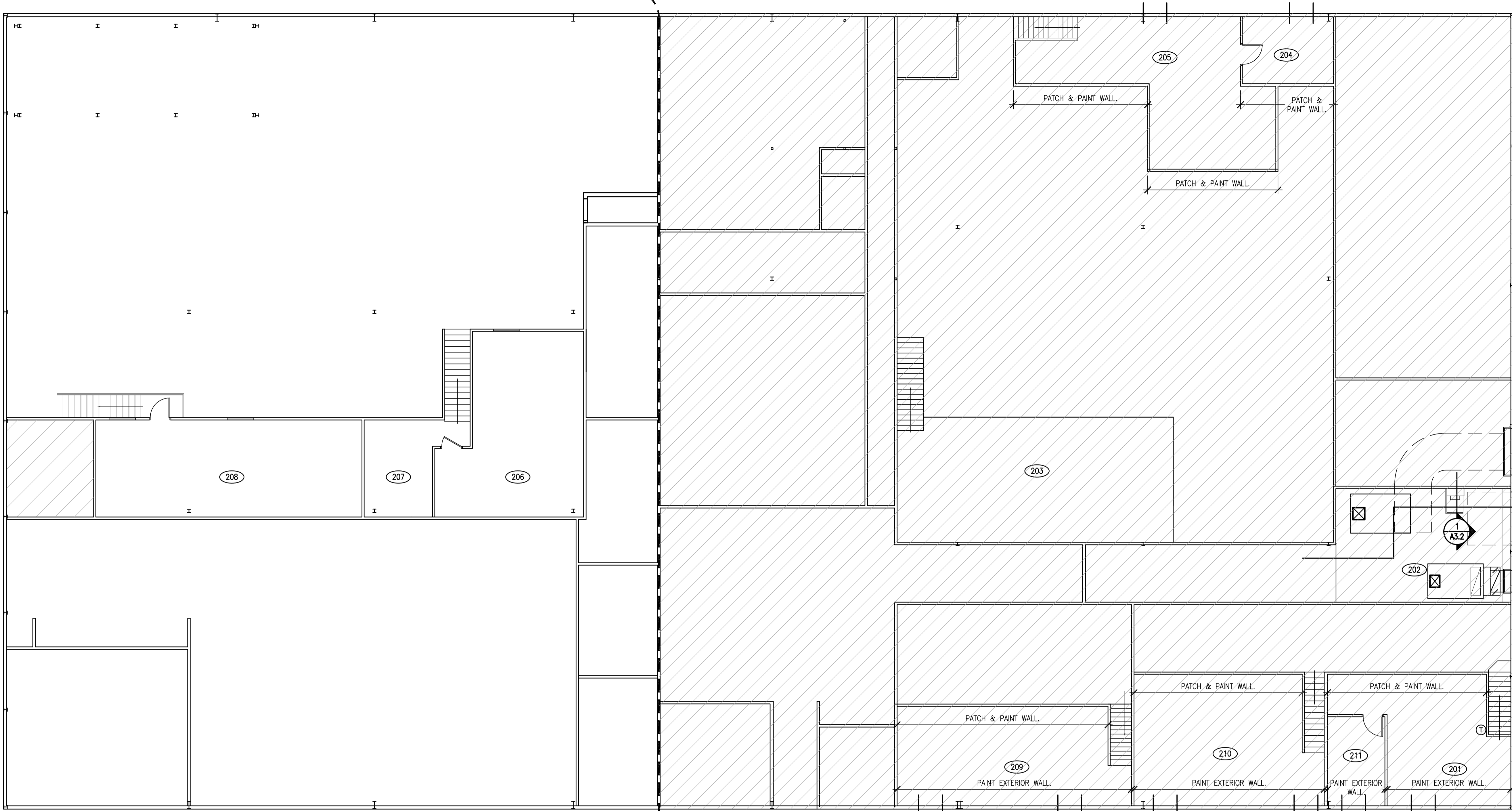
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MAIN FLOOR PLAN

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A2.1 0





1 MEZZANINE FLOOR PLAN
A2.2 1:100

TENDER PACKAGE 1 TENDER PACKAGE 2

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MEZZANINE FLOOR PLAN

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Sheet/Feuille

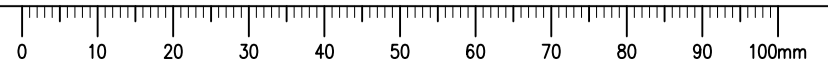
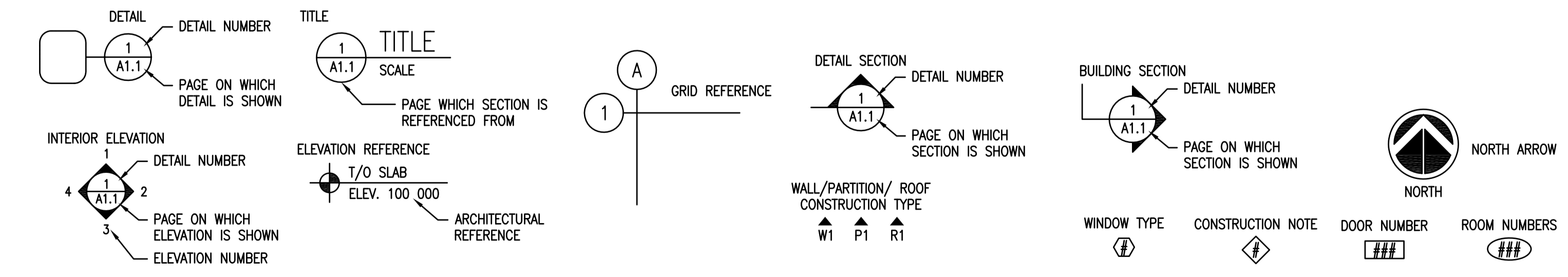
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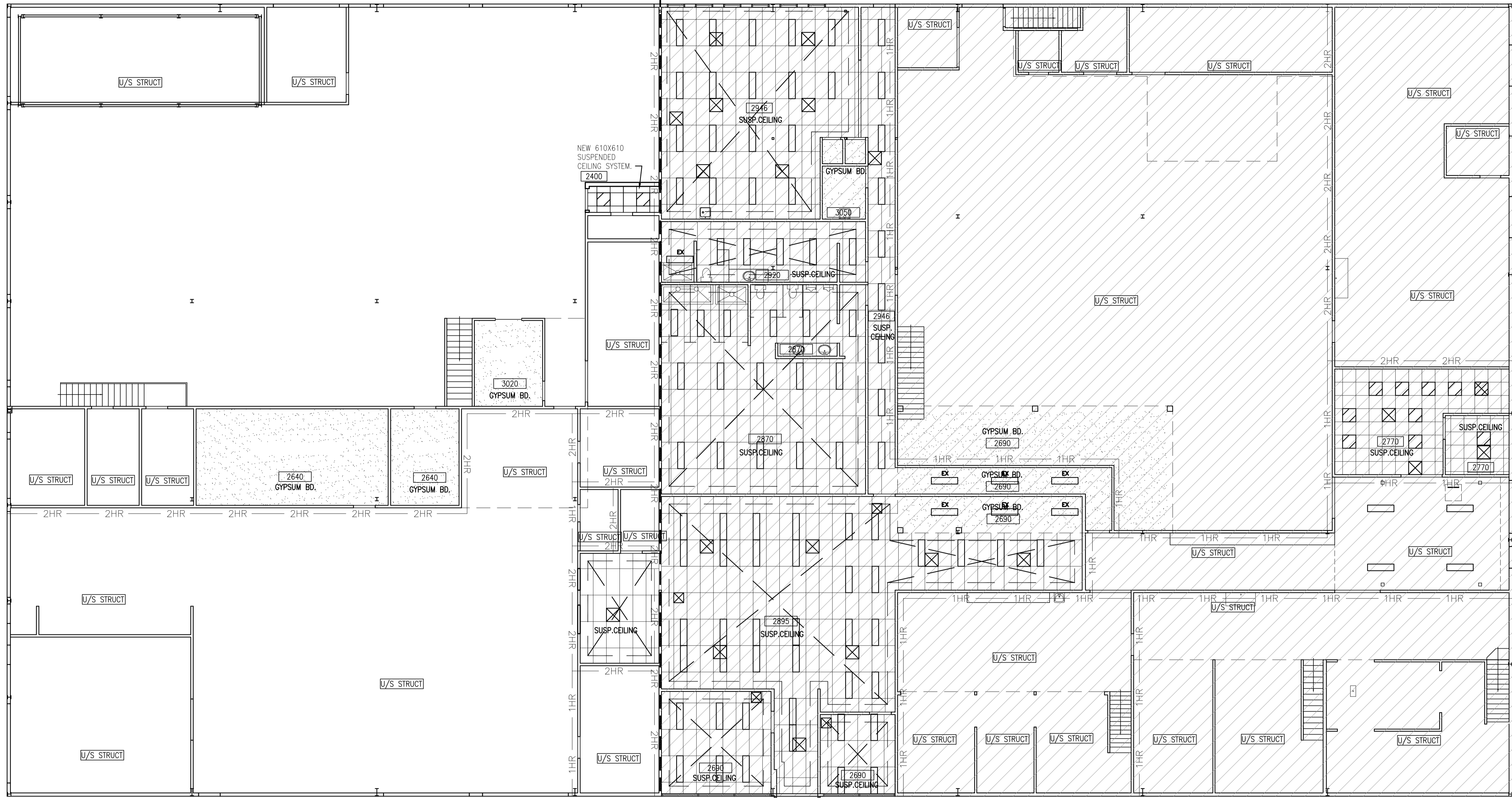
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ABBREVIATIONS

A.F.F. ABOVE FINISHED FLOOR	E.W. EACH WAY	PT. PAINT
ALUM. ALUMINUM	EQ. EQUAL	R.T. ROOF DRAIN
BD. BOARD	H.S.S. HOLLOW STRUCTURAL STEEL	REV. REVERSE
COL. COLUMN	HORIZ. HORIZONTAL	R.F. RESILIENT FLOORING
CONC. CONCRETE	INSUL. INSULATION	S.A.P. SOUND ABSORPTIVE PANEL
CORR. CORRIDOR	MECH. MAXIMUM	SIM. SIMILAR
C/W COMPLETE WITH	MECH. MECHANICAL	TB TACKBOARD
DEMO. DEMOLITION	MIN. MINIMUM	TYP. TYPICAL
DEPT. DEPARTMENT	N.I.C. NOT IN CONTRACT	VERT. VERTICAL
D.F. DRINKING FOUNTAIN	N.T.S. NOT TO SCALE	VEST. VESTIBULE
DTL. DETAIL	O.C. ON CENTER	WASH. WASHROOM
ELEC. ELECTRICAL	O.S.B. ORIENTED STRAND BOARD	WB WHITE BOARD
		W.C. WATER CLOSET

SYMBOL SCHEDULE





TENDER PACKAGE 1 TENDER PACKAGE 2

1
A2.1
1:100
MAIN FLOOR REFLECTED CEILING PLAN

CEILING LEGEND			
	ACOUSTICAL TILE		EXPOSED STRUCTURE
	GYPSUM BOARD		LIGHT FIXTURE
	SPRINKLER HEAD		MECHANICAL DIFFUSER—REFER TO MECHANICAL
	2500		EXPOS. STRUCTURE EXPOSED
	1HR		1.5 HR - FIRE SEPARATION
	2HR		2 HR - FIRE SEPARATION



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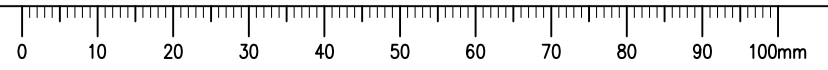
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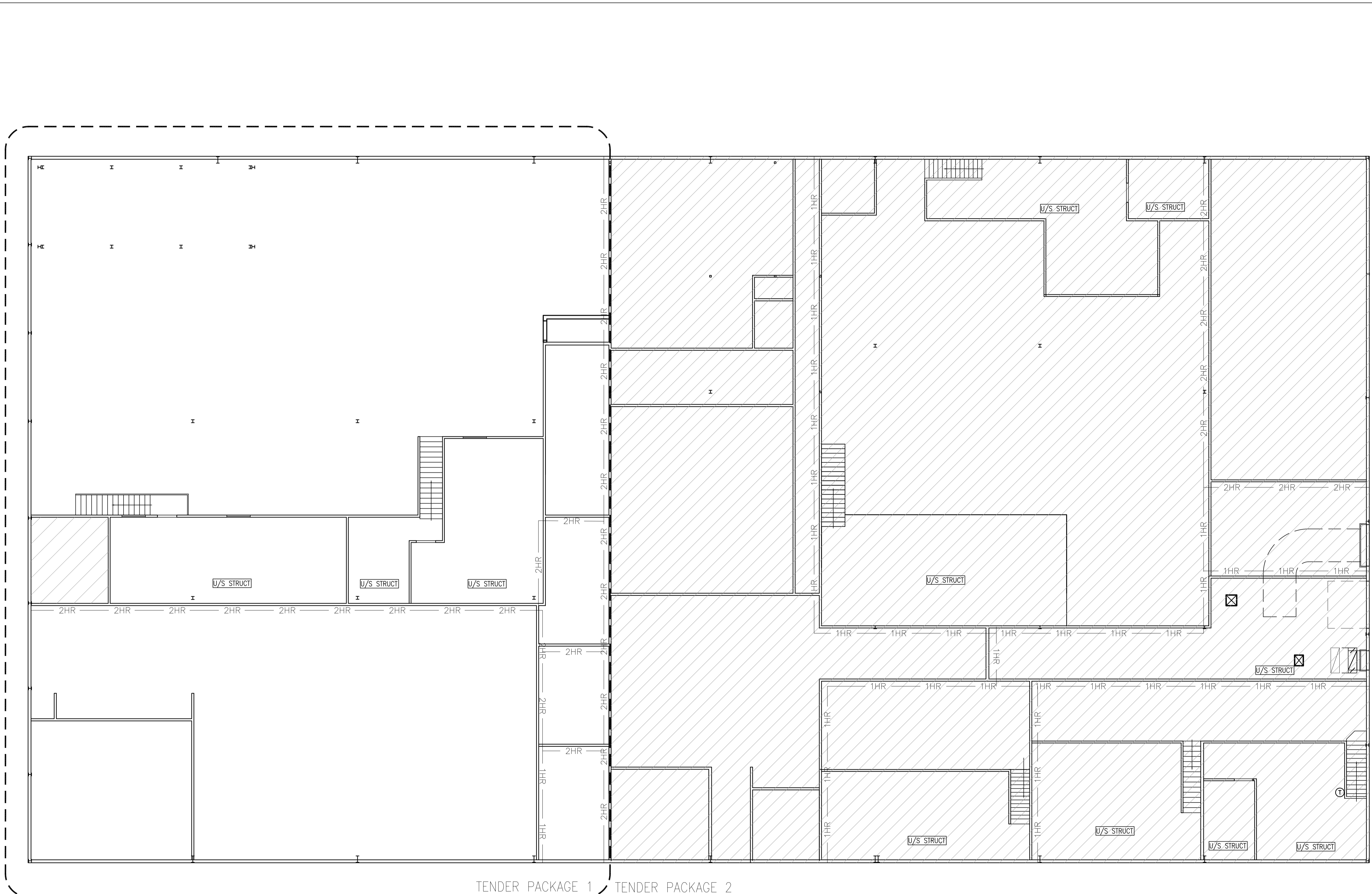
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MAIN FLOOR REFLECTED
CEILING PLAN

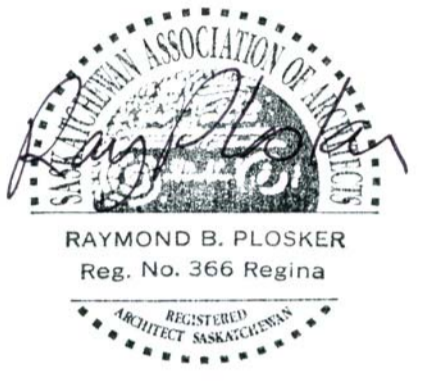
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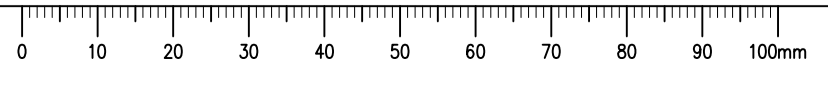
Project Manager/Administrateur de Projets

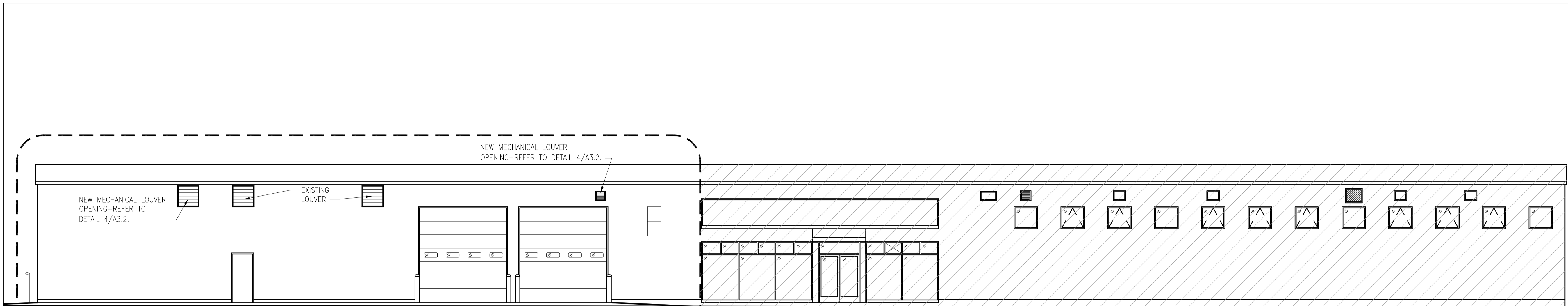
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MEZZANINE REFLECTED
CEILING PLAN

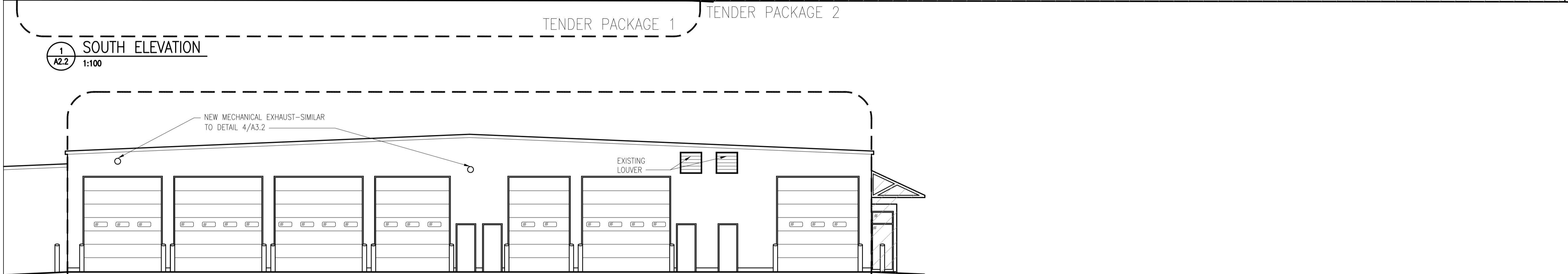
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1 MEZZANINE REFLECTED CEILING PLAN
 A2.2 1:100

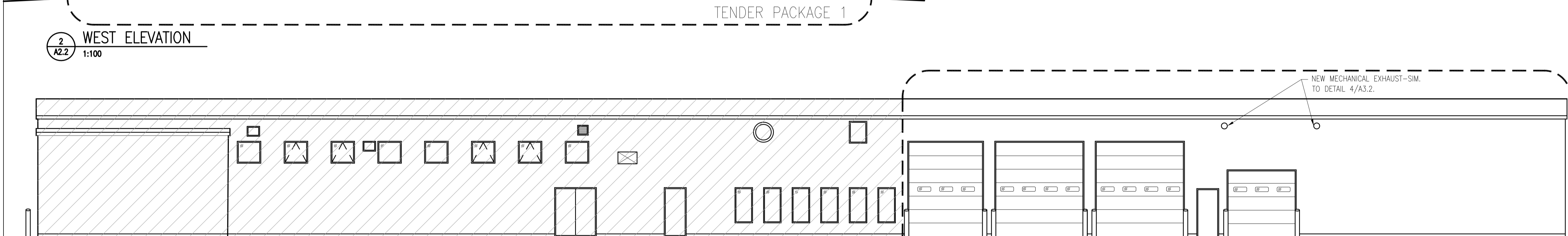




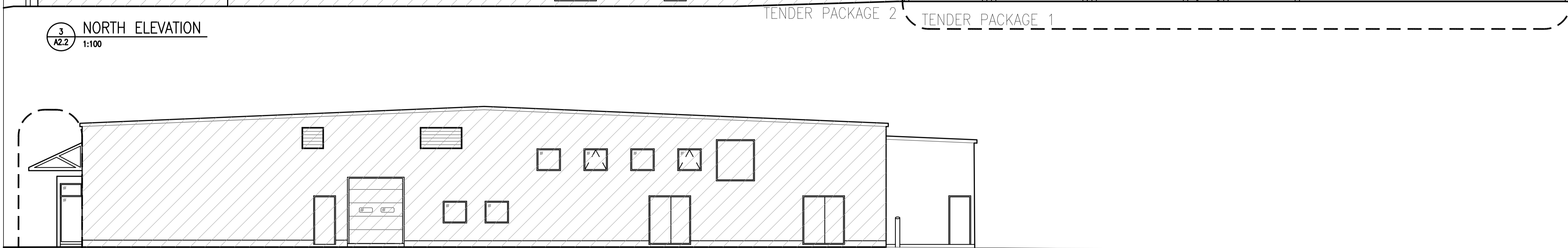
1 SOUTH ELEVATION
A2.2 1:100



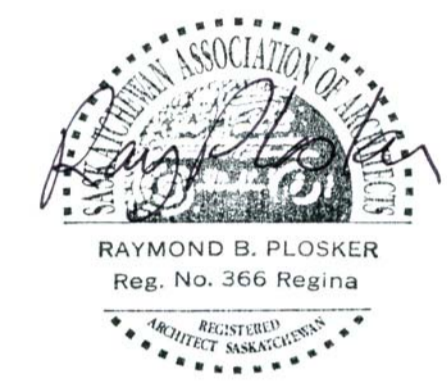
2 WEST ELEVATION
A2.2 1:100



3 NORTH ELEVATION
A2.2 1:100



4 EAST ELEVATION
A2.2 1:100



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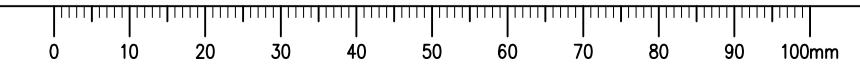
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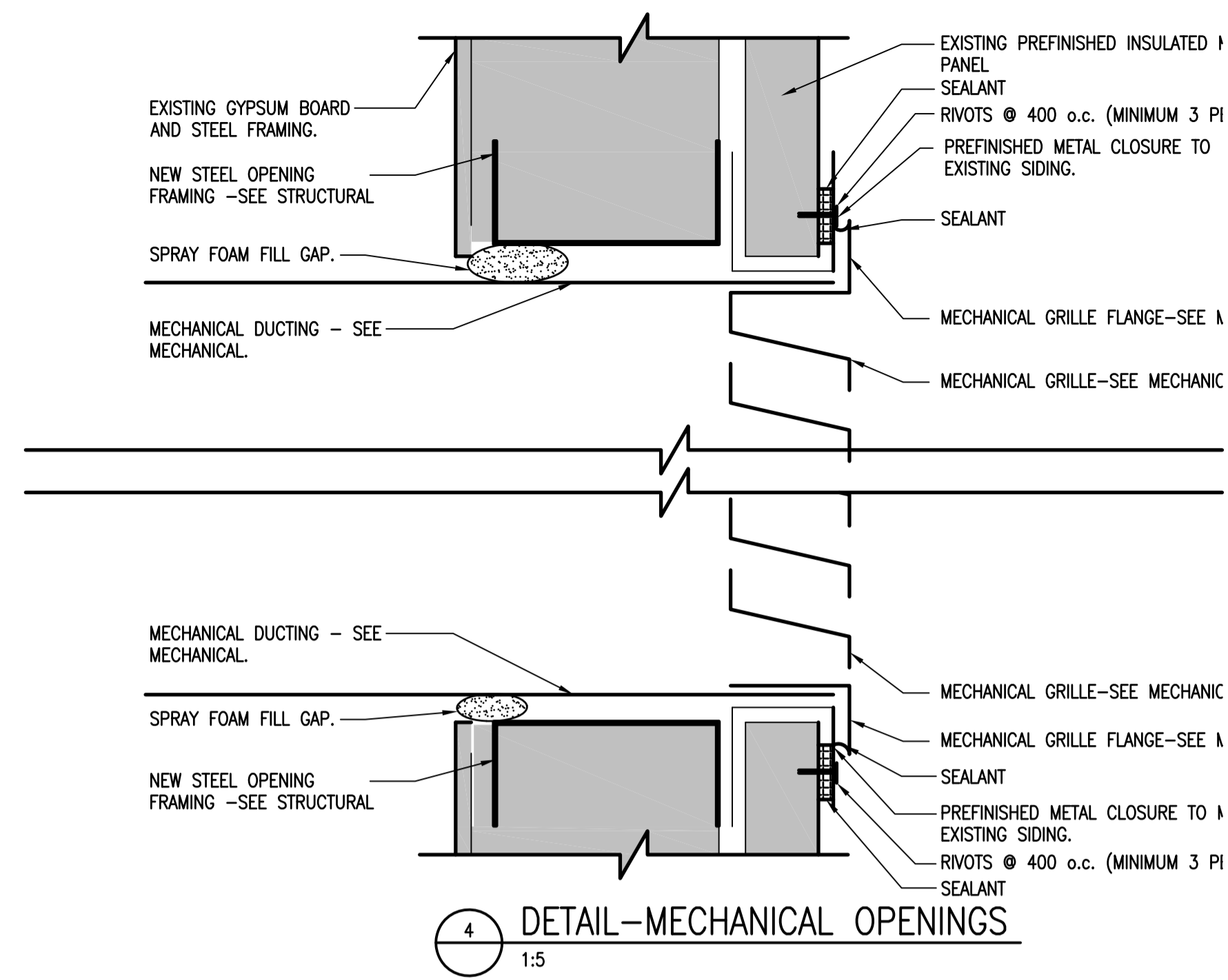
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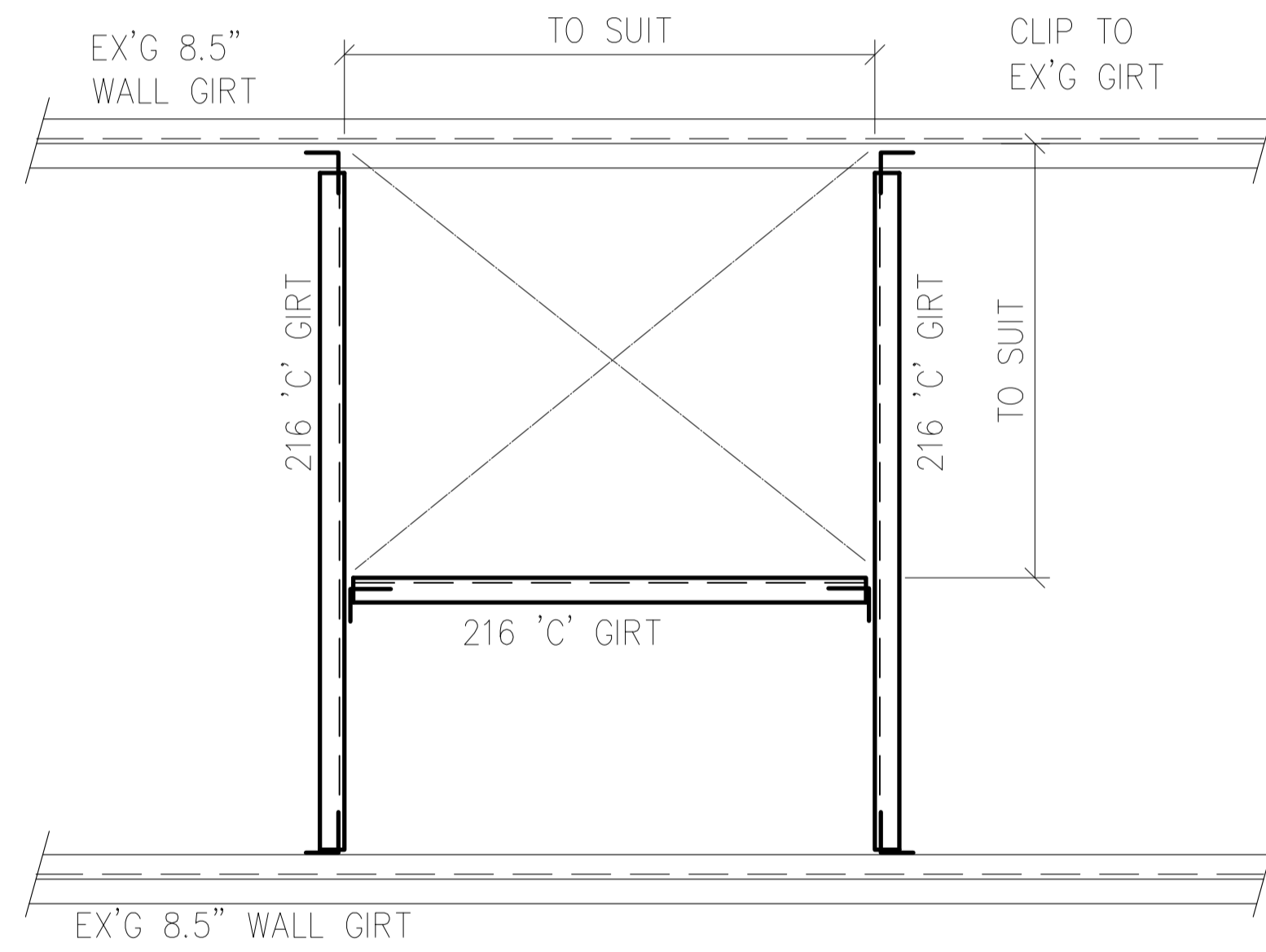
EXTERIOR ELEVATIONS

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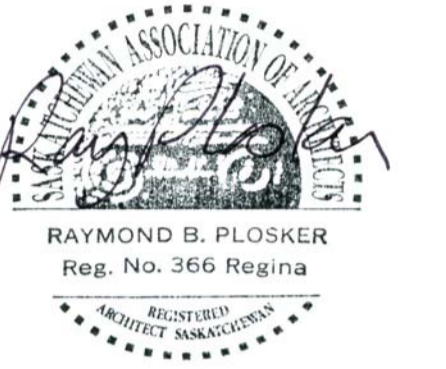
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5 NEW STRUCTURAL STEEL OPENING DETAIL NTS

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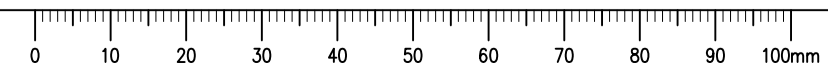
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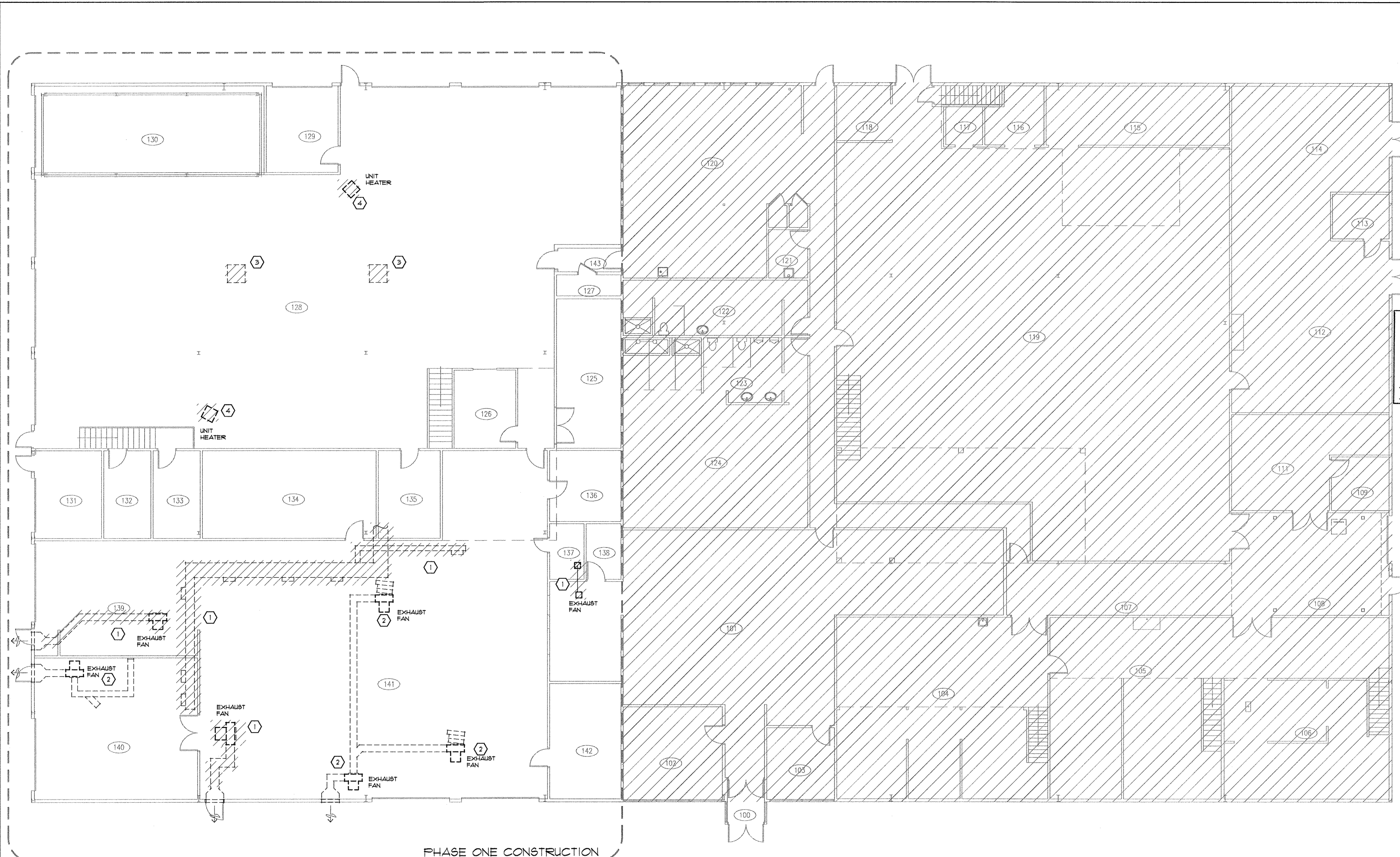
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1 MAIN FLOOR PLAN - MECHANICAL DEMOLITION
 SCALE: 1:100

GENERAL NOTES

1. HATCHING DENOTES EQUIPMENT, DUCTWORK &/ OR ASSOCIATED HANGERS AND DIFFUSERS/GRILLE TO BE REMOVED. STOCKPILE AS PER SPECIFICATIONS.
2. PATCH AND REPAIR ALL WALL ABANDONED ROOF AND WALL PENETRATIONS MADE UNDER THIS CONTRACT. REFER TO ARCHITECTURAL DRAWINGS FOR PATCH AND REPAIR DETAILS.
3. ALL BUILDING HEATING SYSTEMS AND COMPONENTS TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE. THE BUILDING HEATING SYSTEM IS TO BE KEPT IN OPERATION DURING CONSTRUCTION.

NUMERICAL NOTE LEGEND:

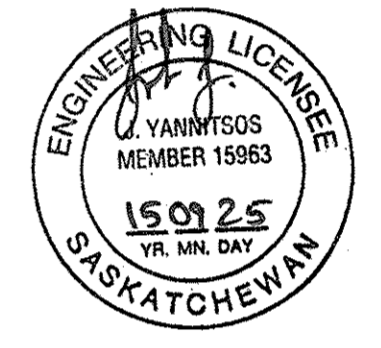
- 1 EXISTING EQUIPMENT / DUCT / ASSOCIATED HANGERS / DIFFUSER / GRILLE TO BE REMOVED. STOCKPILE AS PER OWNERS INSTRUCTIONS.
- 2 EXISTING EQUIPMENT / DUCT TO REMAIN.
- 3 EXISTING ROOF EXHAUST FAN UNIT TO BE REMOVED TO STOCKPILE. EXISTING ROOF OPENING TO BE REUSED. REFER TO I/M21 FOR CONTINUATION
- 4 GAS FIRED UNIT HEATER UNIT TO BE REMOVED TO STOCKPILE. CAP VENT PIPING ABOVE AND BELOW ROOF. FILL ABANDONED PIPE WITH FIBERGLASS INSULATION. REFER TO I/M21 FOR GAS PIPE DETAILS.

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Mechanical design group
 100 - 2330 15th Avenue, Regina, SK Canada S4P 1A2
 phone: (306) 777-0123
 fax: (306) 525-6780

PROJECT No. 14-042
 CONTACT: JOHN

Association of Professional Engineers & Geoscientists
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'TENDER PACKAGE ONE'
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 J.Y.

Drawn by/Dessine par
 JYG

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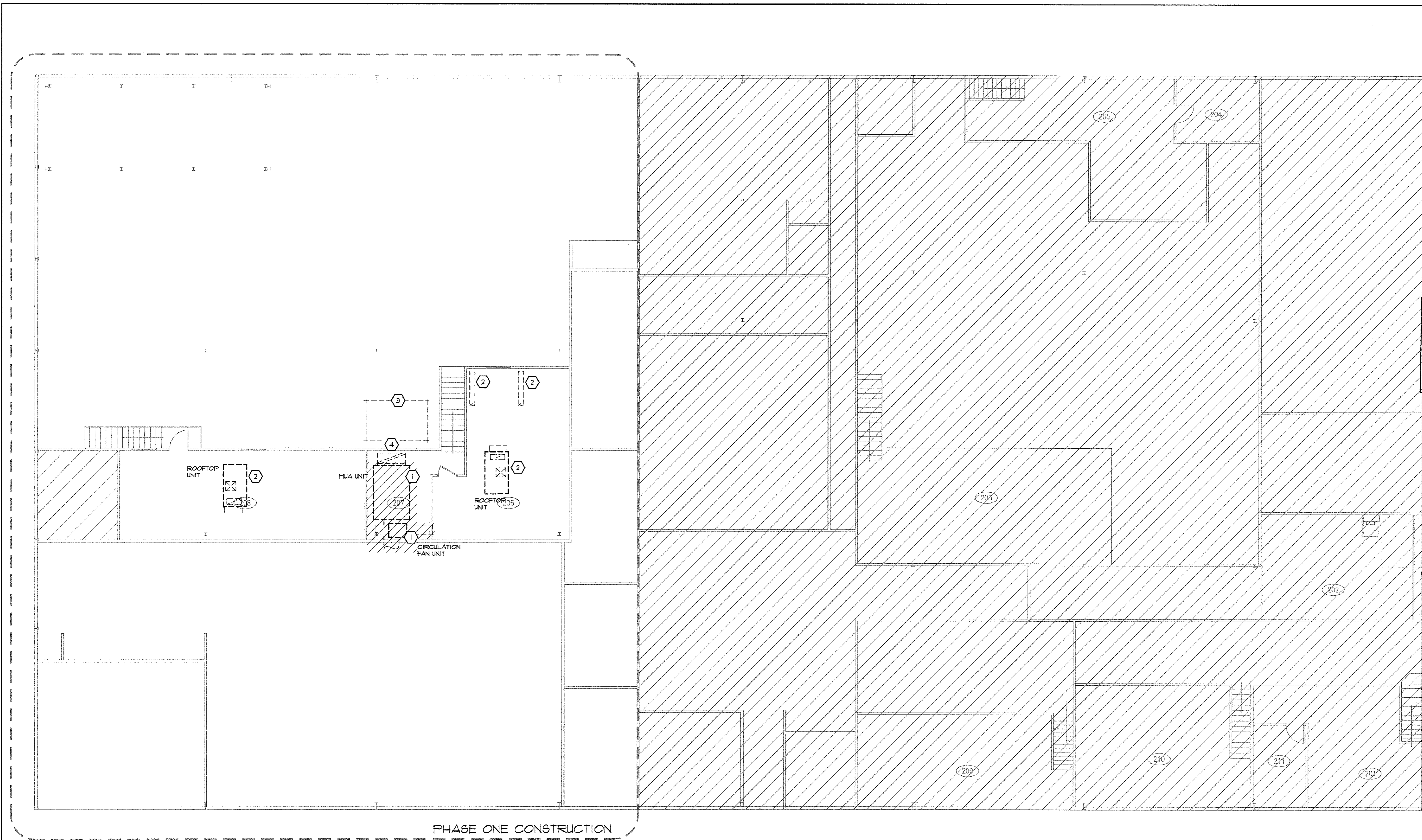
MAIN FLOOR PLAN /
MECHANICAL DEMOLITION

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Sheet/Feuille
M1.1

Revision no./
 La Révision no.





MEZZANINE FLOOR PLAN - MECHANICAL DEMOLITION
 M1.2 SCALE: 1:100

GENERAL NOTES

1. HATCHING DENOTES EQUIPMENT, DUCTWORK OR ASSOCIATED HANGERS AND DIFFUSERS/GRILLE TO BE REMOVED. STOCKPILE AS PER SPECIFICATIONS.
2. PATCH AND REPAIR ALL WALL, ABANDONED ROOF AND WALL PENETRATIONS MADE UNDER THIS CONTRACT. REFER TO ARCHITECTURAL DRAWINGS FOR PATCH AND REPAIR DETAILS.
3. ALL BUILDING HEATING SYSTEMS AND COMPONENTS TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE. THE BUILDING HEATING SYSTEM IS TO BE KEPT IN OPERATION DURING CONSTRUCTION.
4. REPLACE REMOVED/LOST GLYCOL SOLUTION THAT WAS REMOVED/LOST UNDER THIS CONTRACT. GLYCOL SOLUTION TO BE 33% AND IS TO MATCH EXISTING GLYCOL.
5. ALL HEATING SYSTEMS AND HEAT PUMP SYSTEMS ARE EXISTING WITH 33% PROPYLENE GLYCOL. REPLACE, PROVIDE, AND FILL ANY LOST GLYCOL SOLUTION THAT WAS REMOVED. NEW PROPYLENE GLYCOL SOLUTION TO MATCH EXISTING GLYCOL. CONFIRM WITH OWNER REPRESENTATIVE PRIOR TO START OF CONSTRUCTION.
6. CONTRACTOR IS TO TAKE THREE (3) 2 LITER SAMPLES IN CLEAN GLASS SEALABLE CONTAINERS FROM EACH HEATING AND HEAT PUMP LOOP SYSTEM PRIOR TO THE START OF CONSTRUCTION. TURN TWO (2) SAMPLES FROM EACH SYSTEM OVER TO THE MECHANICAL CONSULTANT AND THE CONTRACTOR SHALL RETAIN THE THIRD SAMPLE FOR FUTURE GLYCOL CONDITION ASSESSMENTS THAT MAY BE NEEDED IN THE EVENT OF A SYSTEM CONTAMINATION. REPLACE REMOVED GLYCOL SOLUTION THAT WAS REMOVED TO MATCH EXISTING GLYCOL.

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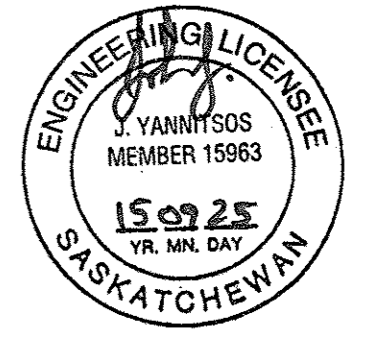
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- ② EXISTING EQUIPMENT / DUCT TO REMAIN.
- ③ MODIFY NATURAL GAS PIPING IN THIS AREA TO ALLOW REMOVAL OF OLD AND INSTALLATION OF NEW MUA UNIT MUA-1.
- ④ OUTSIDE AIR DUCT CONNECTION TO ROOF TO REMAIN FOR RECONNECTION TO NEW MUA UNIT MUA-1.

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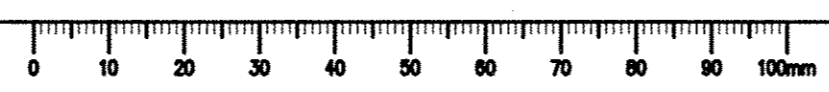
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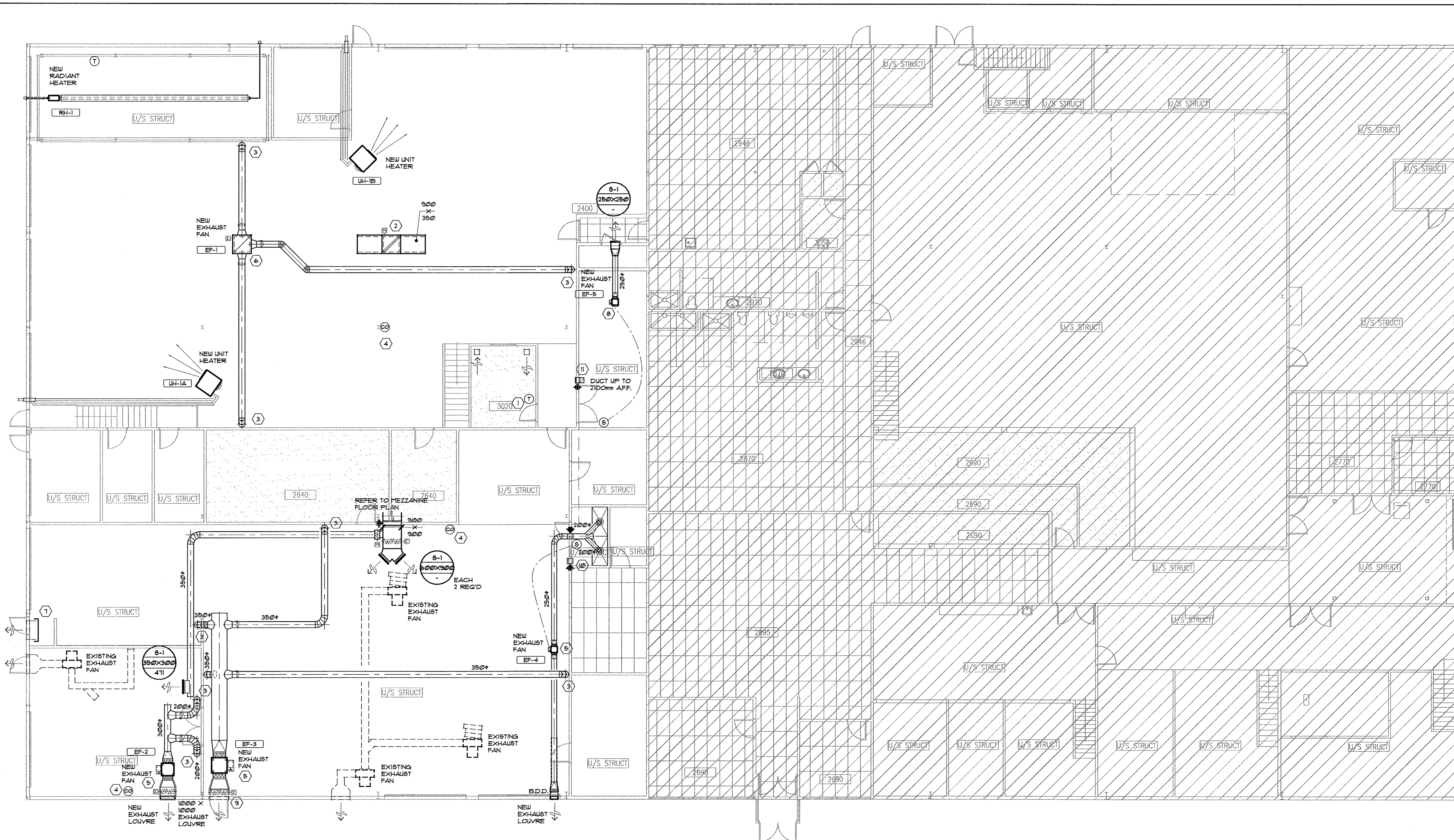
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MEZZANINE FLOOR PLAN /
MECHANICAL DEMOLITION

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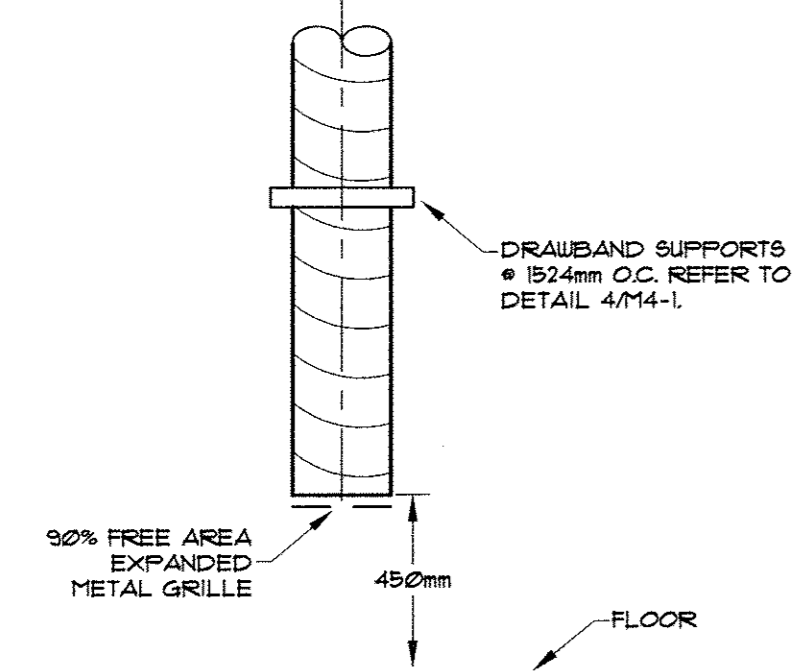
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SCALE: 1:100

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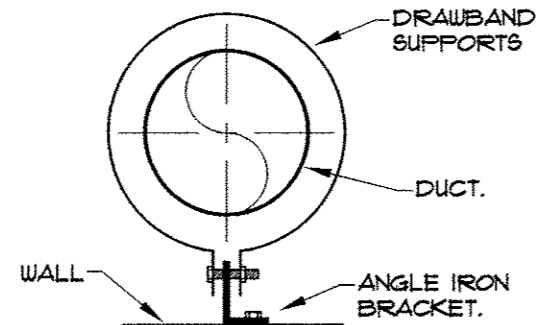
- 1 EXISTING THERMOSTAT RELOCATED FROM ROOM 2206.
- 2 NEW 300x300 INTAKE GOOSENECK ON ROOF. MOTORIZED DAMPER INTERLOCKED WITH C.O. DETECTION SYSTEM. REFER TO SPECIFICATIONS FOR CONTROL SEQUENCING.
- 3 DROP EXHAUST DUCT TO LOW LEVEL. REFER DETAIL 2/M22. CONFIRM EXACT LOCATION ON SITE TO BEST ACCOMMODATE EXISTING SERVICES AND SITE CONDITIONS.
- 6 DENOTES C.O. DETECTOR. CONFIRM EXACT LOCATION ON SITE TO BEST ACCOMMODATE EXISTING SERVICES AND SITE CONDITIONS.
- 8 NEW EXHAUST FAN LOCATED AT HIGH LEVEL. SUPPORT UNIT FROM STRUCTURE C/W VIBRATION ISOLATORS. EXTEND NEW INTAKE AND EXHAUST DUCTWORK AS SHOWN. SIZE AS NOTED. INTERLOCK NEW FAN OPERATION WITH EXISTING BUILDING AUTOMATED CONTROL SYSTEM AS PER SPECIFICATIONS.
- 10 NEW ROOF MOUNTED EXHAUST FAN LOCATED ON EXISTING ROOF CURB. MODIFY EXISTING ROOF CURB AS REQUIRED TO SUITE NEW FAN. EXTEND NEW EXHAUST DUCTWORK AS REQUIRED TO CONNECT TO NEW FAN. INTERLOCK NEW FAN OPERATION WITH EXISTING BUILDING AUTOMATED CONTROL SYSTEM AS PER SPECIFICATIONS.
- 11 CAP AND SEAL ABANDONED EXHAUST DISCHARGE DUCTWORK. INSULATE DUCTWORK INTERNALLY AND CAP DISCHARGE AT EXTERIOR OF BUILDING TO MATCH EXISTING.
- 8 PROVIDE MESH INTAKE SCREEN
- 3 MAKE CONNECTION TO EXISTING LOUVRE
- 10 300x300 TRANSFER DUCT. PROVIDE MESH INTAKE GRILLE
- 11 LOW LEVEL 300x300 TRANSFER DUCT. PROVIDE MESH INTAKE GRILLE

GENERAL NOTES

- 1. ALL BRANCH DUCTS ARE TO BE C/W LOCKABLE MANUAL BALANCING DAMPERS IN AN ACCESSIBLE LOCATION. OPPOSED BLADE BALANCING DAMPERS ARE TO BE INSTALLED INTEGRAL TO GRILLES WHERE INACCESSIBLE. TYPICAL OF ALL.
- 2. FLEXIBLE DUCTWORK IS ALLOWED EXCEPT WHERE NOTED. FLEXIBLE DUCTWORK IS NOT TO EXCEED 1200mm IN LENGTH. FLEXIBLE DUCTWORK IS ALSO NOT TO BE USED AS AN ELBOW OR IN A VERTICAL POSITION. SUPPORT FLEXIBLE DUCTWORK THROUGHOUT TO PREVENT BAGGING.
- 3. DASHED LINES DENOTES DUCT / EQUIPMENT TO REMAIN.



2 'E-1' EXHAUST INTAKE DETAIL
NOT TO SCALE

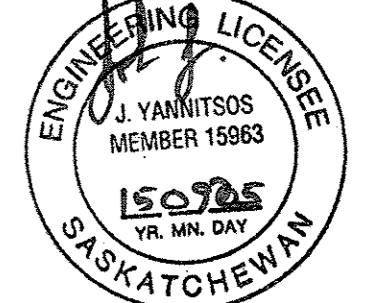


3 DRAWBAND SUPPORT DETAIL
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S Architecture Inc.
 110 - 3725 Prairie Drive, Regina, SK, S4S 0W8 ph: (306) 949-5205
 110 - 2718 Kinross Place, Saskatoon SK, S7P 0A6 ph: (306) 552-6467
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 100 - 2330 15th Avenue, Regina, SK, Canada S4P 1A2
 phone: (306) 777-9123
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 PROJECT No. 14-042
 CONTACT: JOHN

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
Regina Mechanical Design Group
 Number C1553
 Permission to Consult held by:
 Discipline: MECH Sk. Reg. No. 15763 Signature: [Signature]



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Revision/Description	Date/Date
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0	PACKAGE SPLIT - "TENDER PACKAGE ONE" 2015/09/04

Project title/Titre du projet

'TENDER PACKAGE ONE'
MECHANICAL UPGRADE
WORKS BUILDING
REGINA, SASK.

Approved by/Approve par J.Y.

Designed by/Concept par

Drawn by/Dessine par JH

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénieur

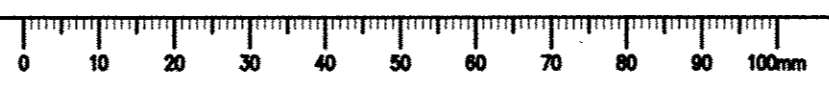
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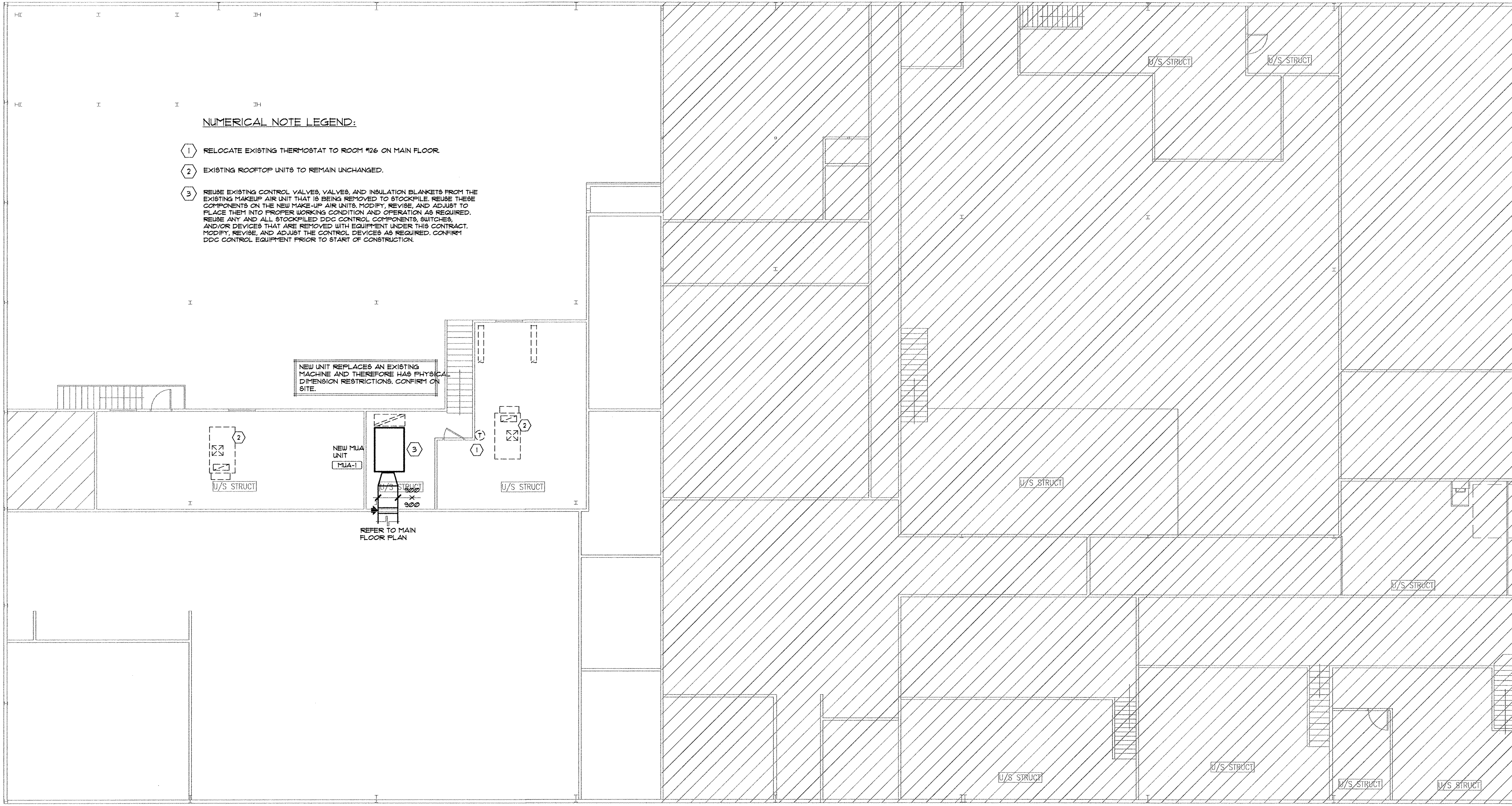
Drawing title/Titre du dessin

MAIN FLOOR PLAN / VENTILATION

Project No./No. du projet
 Sheet/Feuille
 Revision no./Le Révision no.

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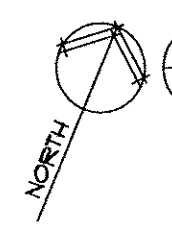
- ① RELOCATE EXISTING THERMOSTAT TO ROOM #26 ON MAIN FLOOR.
- ② EXISTING ROOFTOP UNITS TO REMAIN UNCHANGED.
- ③ REUSE EXISTING CONTROL VALVES, VALVES, AND INSULATION BLANKETS FROM THE EXISTING MAKEUP AIR UNIT THAT IS BEING REMOVED TO STOCKPILE. REUSE THESE COMPONENTS ON THE NEW MAKE-UP AIR UNITS. MODIFY, REVISE, AND ADJUST TO PLACE THEM INTO PROPER WORKING CONDITION AND OPERATION AS REQUIRED. REUSE ANY AND ALL STOCKPILED DDC CONTROL COMPONENTS, SWITCHES, AND/OR DEVICES THAT ARE REMOVED WITH EQUIPMENT UNDER THIS CONTRACT. MODIFY, REVISE, AND ADJUST THE CONTROL DEVICES AS REQUIRED. CONFIRM DDC CONTROL EQUIPMENT PRIOR TO START OF CONSTRUCTION.

NEW UNIT REPLACES AN EXISTING MACHINE AND THEREFORE HAS PHYSICAL DIMENSION RESTRICTIONS. CONFIRM ON SITE.

NEW MUA UNIT (MUA-1)

REFER TO MAIN FLOOR PLAN

MEZZANINE FLOOR PLAN - MECHANICAL



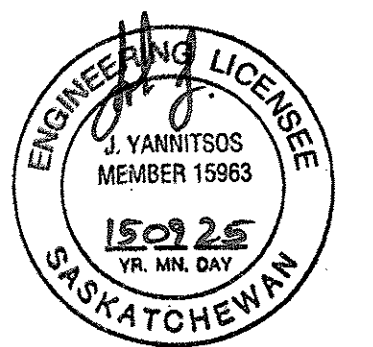
M2.2 SCALE: 1:100



S Architecture Inc.
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 1100 - 2118 Regina Street, Saskatoon, SK, S7P 0S6
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 Permission to Consult held by:
 Discipline: MECH Sk. Reg. No. 15968 Signature: J.Y.



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Revision/Description/Date

Client/client

Project title/Titre du projet
'TENDER PACKAGE ONE'
MECHANICAL UPGRADE WORKS BUILDING REGINA, SASK.

Approved by/Approve par
 J.Y.

Designed by/Concept par
 J.Y.

Drawn by/Dessine par
 jlg

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

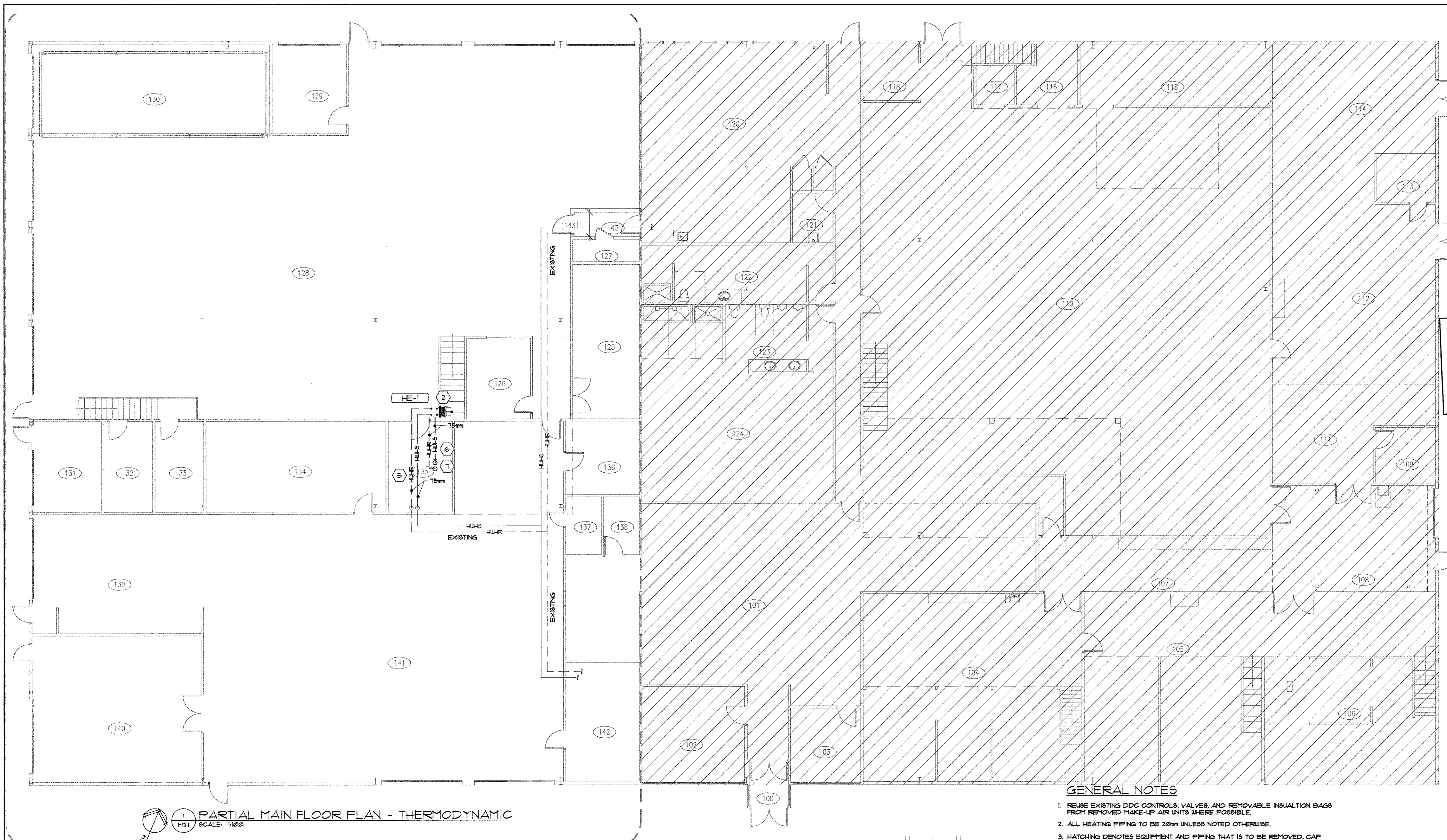
MEZZANINE FLOOR PLAN / VENTILATION

Project No./No. du projet

Sheet/Fauille
M2.2

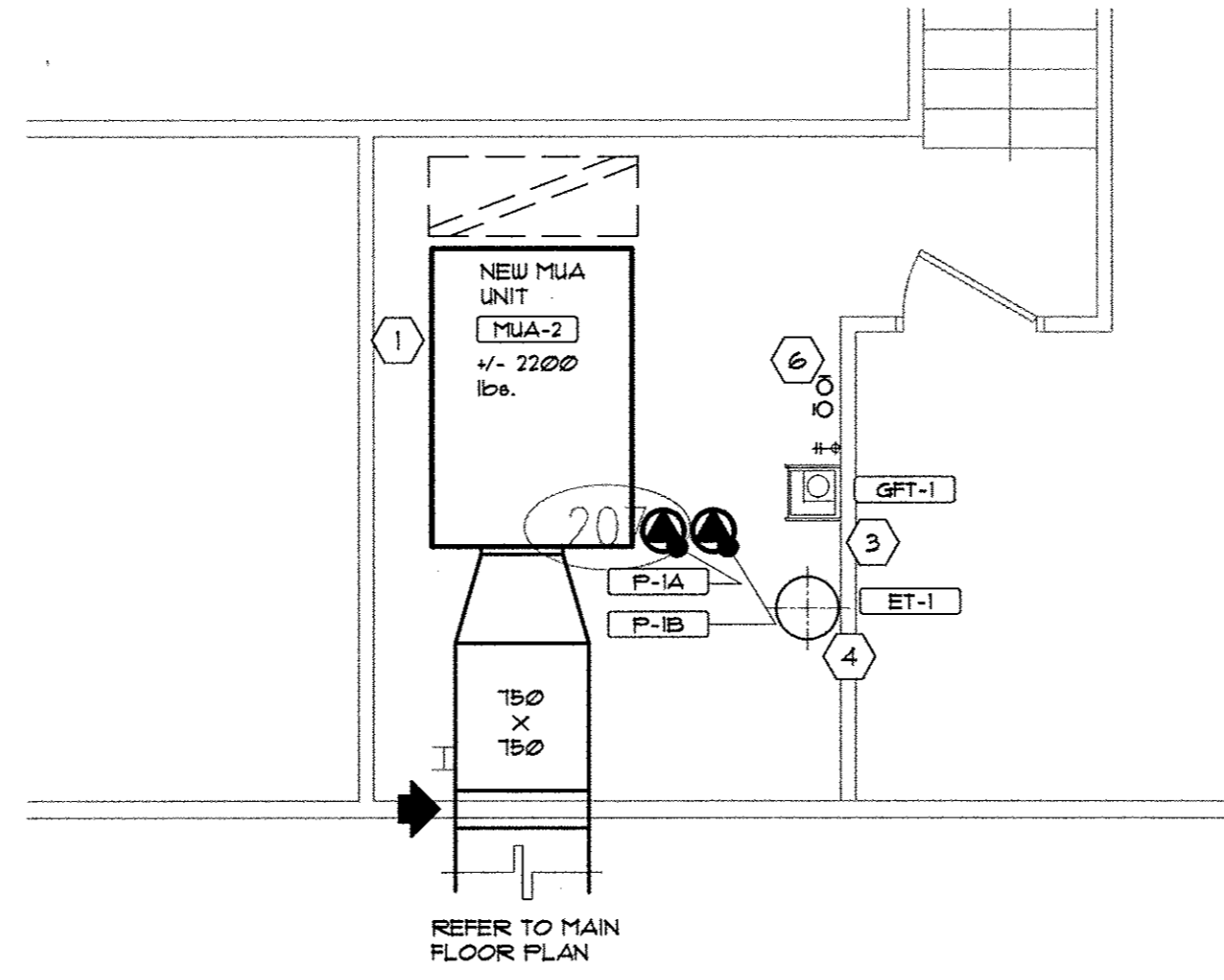
Revision no./La Révision no.





1 PARTIAL MAIN FLOOR PLAN - THERMODYNAMIC
 MSJ SCALE: 1:100

PHASE ONE CONSTRUCTION



3 EXISTING MEZZANINE - THERMODYNAMIC
 MSJ SCALE: 1:50

GENERAL NOTES

1. REUSE EXISTING DDG CONTROLS, VALVES, AND REMOVABLE INSULATION BAGS FROM REMOVED MAKE-UP AIR UNITS WHERE POSSIBLE.
2. ALL HEATING PIPING TO BE 20mm UNLESS NOTED OTHERWISE.
3. HATCHING DENOTES EQUIPMENT AND PIPING THAT IS TO BE REMOVED. CAP PIPING AT MANS AND REMOVE SUPPORTS AND HANGARERS. DASHED LINES DENOTES EXISTING OR DUCT / EQUIPMENT TO REMAIN.

NUMERICAL NOTE LEGEND:

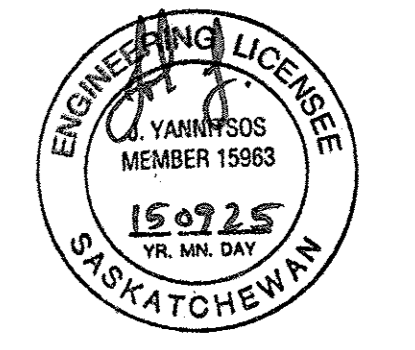
1. EXISTING UNIT TO BE REMOVED. INSTALL NEW UNIT IN SAME LOCATION. INSTALL NEW EQUIPMENT AND PIPE AS PER SCHEMATIC DETAIL 1/141.
2. NEW FLOOR MOUNTED HEAT EXCHANGER UNIT. REFER TO STRUCTURAL DRAWINGS AND UNIT MANUFACTURER INSTALLATION INSTRUCTIONS FOR MOUNTING DETAILS, EXTEND HEATING PIPING AND VALVES AS PER 1/141 SCHEMATIC DETAIL.
3. NEW GLYCOL FILL TANK. EXTEND HEATING PIPING AND VALVES AS PER 1/141 SCHEMATIC DETAIL.
4. NEW EXPANSION TANK. EXTEND HEATING PIPING AND VALVES AS PER 1/141 SCHEMATIC DETAIL.
5. EXTEND EXISTING HEATING SUPPLY AND RETURN PIPING LOCATED AT HIGH LEVEL AND CONNECT TO NEW HEAT EXCHANGER UNIT LOCATED UNDER EXISTING STAIRS. CONFIRM EXACT ROUTING AND LOCATION ON SITE PRIOR TO CONSTRUCTION. SIZES AS NOTED.
6. EXTEND NEW HEATING SUPPLY AND RETURN PIPING FROM NEW HEAT EXCHANGER UNIT, LOCATED UNDER EXISTING STAIRS, UP TO NEW MUA UNIT IN ROOM 101. CONFIRM EXACT ROUTING AND LOCATION ON SITE PRIOR TO CONSTRUCTION. SIZES AS NOTED.
7. REUSE EXISTING CONTROL VALVES, VALVES, AND INSULATION BLANKETS FROM THE EXISTING MAKEUP AIR UNIT THAT IS BEING REMOVED TO STOCKPILE. REUSE THESE COMPONENTS ON THE NEW MAKE-UP AIR UNITS. MODIFY, REVISE, AND ADJUST TO PLACE THEM INTO PROPER WORKING CONDITION AND OPERATION AS REQUIRED. REUSE ANY AND ALL STOCKPILED DDG CONTROL COMPONENTS, SWITCHES, AND/OR DEVICES THAT ARE REMOVED WITH EQUIPMENT UNDER THIS CONTRACT. MODIFY, REVISE, AND ADJUST THE CONTROL DEVICES AS REQUIRED. CONFIRM DDG CONTROL EQUIPMENT PRIOR TO START OF CONSTRUCTION.

SEP Architecture Inc.
 100 - 3725 Pacific Drive, Regina, SK, S4S 0R8 ph: (306) 569-2255
 102 - 2718 Kinnear Place, Saskatoon, SK, S7P 0A6 ph: (306) 632-4457
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Mechanical design group
 100 - 2330 15th Avenue, Regina, SK, Canada S4P 1A2
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 fax: (306) 525-6790

PROJECT No: 14-042
 CONTACT: JOHN

Association of Professional Engineers & Geoscientists
 of Saskatchewan
CERTIFICATE OF AUTHORIZATION
Regina Mechanical Design Group
 Number C1553
 Permission to Consult held by:
 Discipline Sk. Reg. No. Signature
 MCEM 15763 [Signature]



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Revision/ Redline	Description/Description	Date/Date
Client/client		

Project title/Titre du projet

'TENDER PACKAGE ONE'
**MECHANICAL UPGRADE
 WORKS BUILDING
 REGINA, SASK.**

Approved by/Approve par
 J.Y.

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 J.Y.

Drawn by/Dessine par
 JHG

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'ingenierie

Client/client

Drawing title/Titre du dessin

THERMODYNAMICS

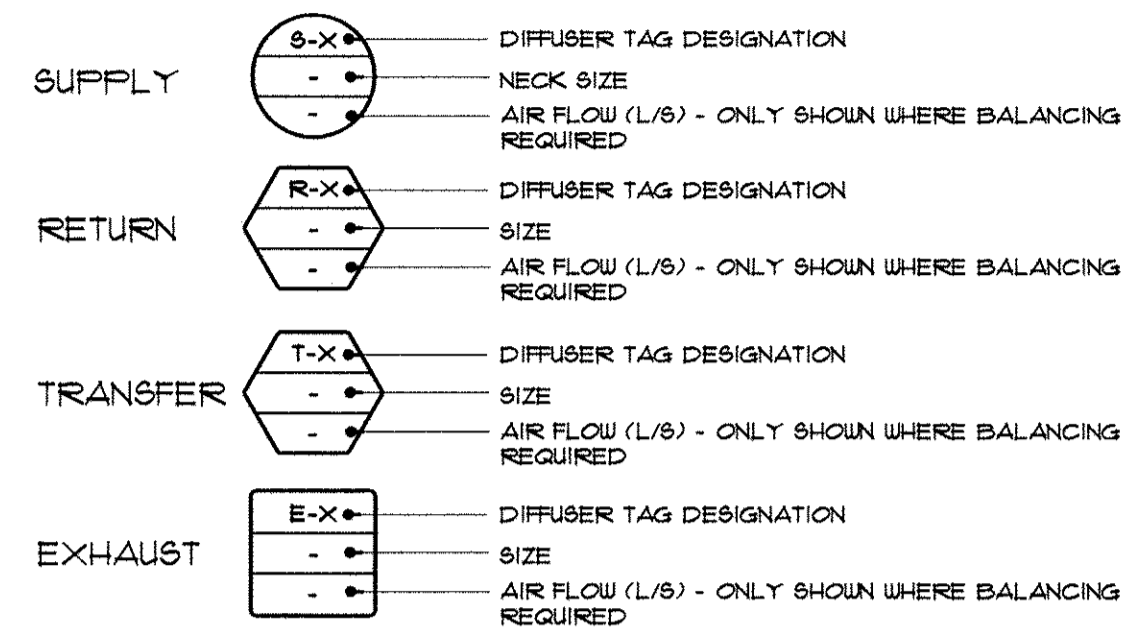
Project No./No. du projet

Sheet/Feuille
M3.1

Revision no./
 La revision no.



GRILLES, DIFFUSERS & LOUVRES



SUPPLY DIFFUSER 'S-1'

EH PRICE MODEL 520 5/8" STEEL DOUBLE DEFLECTION SUPPLY GRILLE. FRONT BLADES PARALLEL TO LONG DIMENSION. SCREW FASTENING. BIZ WHITE FINISH.

LOUVRES

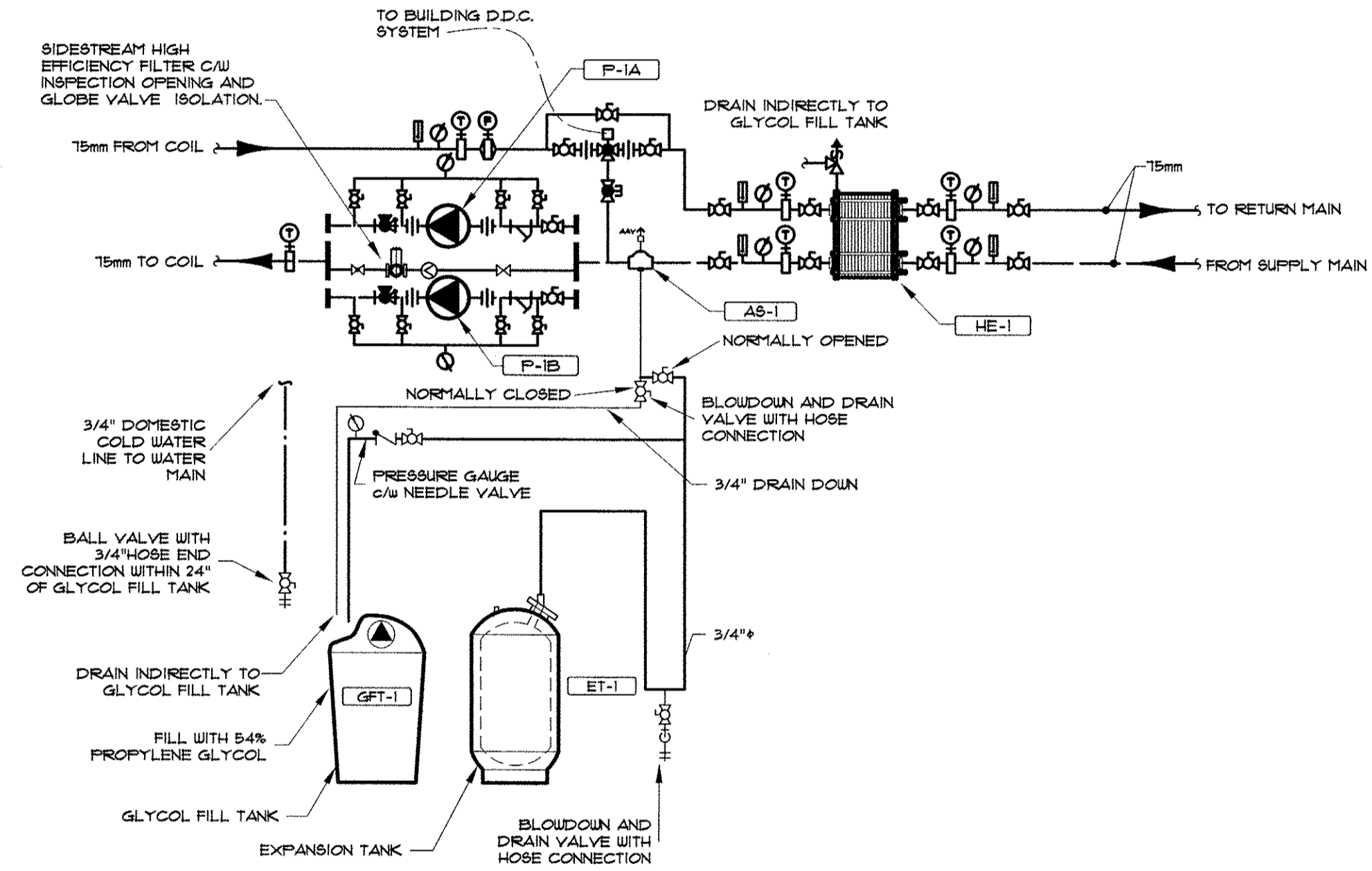
EH PRICE MODEL K6114X- 102mm (4") LOUVER WITH 55% FREE AREA. ALL ALUMINUM CONSTRUCTION. SURFACE MOUNTING FLANGE-SCREW FASTENING. REFER TO FLOOR PLANS FOR SIZES. NO BIRD SCREEN REQUIRED. COLOR AS SELECTED BY ARCHITECT.

MOTORIZED DAMPERS

TAMCO 3000BF THERMALLY INSULATED MOTORIZED DAMPERS TO BE INTERLOCKED WITH CORRESPONDING FANS, AIR HANDLERS, AND CO DETECTORS. SIZE AS NOTED ON DRAWINGS.

EQUIPMENT SCHEDULE

- MUA-1 MUA UNIT**
 JOHNSON CONTROLS YORK SOLUTION XT11-45X54 INDOOR VARIABLE VOLUME AIR HANDLER, HOT WATER HEATING, MAKE-UP AIR UNIT TO PROVIDE 5400 CFM @ 0.5" ESP. 110 MBH HEATING INPUT AT 87 GPM, 6.7 FT WPD, HEATING COIL AT -40°F EAT, 16" F L.A.T. AT 180° F EAT AND 160° F LUT. UNIT C/W INDOOR MOUNTING FRAME, HORIZONTAL DISCHARGE, 16 ga. CABINET WITH 2" 1 1/2" INSULATION, FC DUAL BLOWER C/W FILLW BLOCK BEARING AND EXTENDED LUBE LINE FROM FAN SIDE BEARING TO ACCESS SIDE, 2" PLEATED MERV 8 FILTERS C/W FILTER GUAGE, HYDRONIC HEATING COIL C/W HEADER COVER, 5 HP, 5.75V/3# FAN MOTOR, 1.1 MAIN FEEDER AMP, 15 AMP MAX FUSE AND BREAKER SIZE, INTERNAL VIBRATION ISOLATION, HINGED ACCESS DOORS WITH LEAVER LOCK HANDLES, FACTORY MOUNTED AND TESTED VARIABLE FREQUENCY DRIVE C/W MOTOR OVERLOAD PROTECTION AND MANUAL BY-PASS SWITCH, INTERLOCK UNIT WITH BUILDING EXISTING DDC SYSTEM. UNIT IS 18" x 2400 lbs.
- EF-1 CO. EXHAUST FAN**
 GREENHECK MODEL CUBE-180-1 BELT DRIVE CENTRIFUGAL ROOF EXHAUST FAN 3375 CFM @ 0.5" STATIC PRESSURE, 3/4 HP MOTOR, 120/60/1 UNIT C/W GALVANIZED BIRDSCREEN, HINGE KIT, FACTORY MOUNTED DISCONNECT, VARIABLE FREQUENCY DRIVE C/W MOTOR OVERLOAD PROTECTION AND MANUAL BY-PASS SWITCH, INTERLOCK UNIT WITH CARBON MONOXIDE DETECTOR UNIT AS NOTED AND WITH WITH THE EXISTING BUILDING DDC CONTROL SYSTEM.
- EF-2 CO. EXHAUST FAN**
 GREENHECK MODEL NO. B8Q-30-4 1/4 HP 102V/1A, 5200 CFM @ 3.75" ESP, 1200 RPM C/W MOTOR COVER/BELT GUARD, INLET GUARD AND VIBRATION ISOLATORS, INTERLOCK WITH CARBON MONOXIDE DETECTOR UNIT AS NOTED AND WITH WITH THE EXISTING BUILDING DDC CONTROL SYSTEM.
- EF-3 CO. EXHAUST FAN**
 GREENHECK MODEL B8Q-180-10 TO PROVIDE 4100 CFM EXHAUST AT 2.5" ESP, 3/4 HP, 1020 RPM UNIT C/W VIBRATION ISOLATORS, BACKDRAFT DAMPER, NEOPRENE DUCT CONNECTORS, 208V/1PH/60HZ UNIT C/W VARIABLE FREQUENCY DRIVE C/W MOTOR OVERLOAD PROTECTION AND MANUAL BY-PASS SWITCH, INTERLOCK UNIT WITH CARBON MONOXIDE DETECTOR UNIT AS NOTED AND WITH WITH THE EXISTING BUILDING DDC CONTROL SYSTEM.
- EF-4 EXHAUST FAN**
 GREENHECK MODEL NO. B8Q-80-4 1/4 HP 102V/1A, 3000 CFM @ 3.75" ESP, 1200 RPM C/W MOTOR COVER/BELT GUARD, INLET GUARD AND VIBRATION ISOLATORS, WALL MOUNTED ON/OFF SWITCH.
- EF-5 EXHAUST FAN**
 GREENHECK MODEL 85P-AT10-00 TO PROVIDE 5000 CFM EXHAUST AT 3.75" ESP, 285 WATTS, 4.4 AMP, 1020 RPM, UNIT C/W VIBRATION ISOLATORS, BACKDRAFT DAMPER, WALL MOUNTED ON/OFF SWITCH, CABINET MOUNTED SPEED CONTROLLER, 120V/1PH/60HZ.
- RTH-1 RADIANT TUBE HEATER 'RTH-1'**
 SCHWANK GAS FIRED RADIANT TUBE HEATER MODEL NO. 875-JZ 80 HEATER TO PROVIDE 80 MBH INPUT. UNIT C/W HORIZONTAL GUARD CONFIGURATION FRESH AIR INTAKE WALL CAP, 4" HORIZONTAL FLUE VENT KIT, AND TRUTEMP INFRARED SETBACK THERMOSTAT, 15 AMP, 120V/1PH/60HZ. INTERLOCK UNIT WITH THE EXISTING BUILDING DDC CONTROL SYSTEM.
- UH-1A GAS FIRED UNIT HEATERS**
- UH-1B REZNOR MODEL NO. UD49-300 SEPARATED COMBUSTION, GAS FIRED, UNIT HEATER TO PROVIDE 89 KW (300 MBH) HEATING INPUT, 13 KW (45 MBH) HEATING OUTPUT, FAN IS 1020 RPM, 1/2 HP MOTOR, 11 FLA, 115V/1A UNIT COMPLETE WITH FLOWER VENT, DIRECT CONNECT TO OUTDOOR FOR COMBUSTION, REMOTE THERMOSTAT, VIBRATION ISOLATOR MOUNTING KIT, WALL MOUNTED COMBUSTION DISCHARGE/INTAKE KIT, INTERLOCK UNIT WITH THE EXISTING BUILDING DDC CONTROL SYSTEM.**
- MOTORIZED DAMPERS - ALL MOTORIZED DAMPERS TO BE TAMCO SERIES 3000-BF THERMALLY INSULATED DAMPER WITH THERMALLY BROKEN FRAME. INTERLOCKS BY CONTROL'S CONTRACTOR. INTERLOCK UNIT WITH THE EXISTING BUILDING DDC CONTROL SYSTEM.**
- CARBON MONOXIDE MONITOR - QUATROSENSE ENVIRONMENTAL LIMITED MODEL NO. QAS-101 CARBON MONOXIDE MONITORING SYSTEM, 115V, ON/OFF, LOW/HIGH OPERATION STAND ALONE CARBON MONOXIDE MONITORING SYSTEM, C.S.A. APPROVED, COMPLETE WITH INTEGRAL SENSOR CONTACTS FOR INTERLOCK TO EXHAUST FAN AND OPERATORS MANUAL, INTERLOCKS BY CONTROL'S CONTRACTOR, INTERLOCK UNIT WITH THE EXISTING BUILDING DDC CONTROL SYSTEM.**
- P-1A MUA-1 HEATING CIRCULATOR PUMPS**
- P-1B MAKE-UP AIR UNIT COOLING COIL LOOP PUMP - ITT BELL & GOSSETT SERIES 80 MODEL 2X2X1 HORIZONTAL INLINE CENTRIFUGAL, BRONZE FITTED CONSTRUCTION HYDRONIC HEATING PUMP TO HAVE A CAPACITY OF 87 GPM AT 50% GLYCOL AND 45 FEET TOTAL HEAD, 1800 RPM, ELECTRICAL: 208V/3PH/60HZ. POWER, 3 H.P. MOTOR, UNIT C/W NON OVERLOADING MOTOR, VARIABLE FREQUENCY DRIVE C/W MOTOR OVERLOAD PROTECTION AND MANUAL BY-PASS SWITCH, TEMPERATURE/PRESSURE GAUGES, SOLID STATE STARTER, INTERLOCK PUMP OPERATION WITH EXISTING BUILDING AUTOMATED CONTROL SYSTEM.**
- GFT-1 AXIOM INDUSTRIES MODEL 8F-100 GLYCOL MAKE-UP PUMP C/W TANK UNIT C/W FEED PUMP, FEED SOLUTION REGULATING VALVE, MIX TANK, AND LOW LEVEL PUMP SHUT DOWN, MAKE PIPE CONNECTIONS TO TANK AS SHOWN ON DRAWINGS. 18V/1PH/60HZ, LOW LEVEL ALARM.**
- ET-1 BELL AND GOSSETT 'HFT' SERIES MODEL HFT-60 BLADDER TYPE EXPANSION TANK, 100 PSI MAXIMUM WORKING PRESSURE, 1.6 GALLON TOTAL VOLUME, 25 GALLON MAXIMUM ACCEPTANCE VOLUME, WITH HEAVY DUTY BUTYL DIAPHRAGM.**



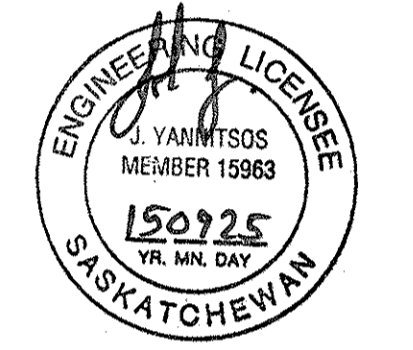
HEAT EXCHANGER SCHEDULE

SYMBOL	SYSTEM	TRANSFER MEDIUMS		TOTAL HEAT TRANSFERED (MBH)	COOLING				COOLED				CONSTRUCTION			MANUFACTURER	MODEL No.
		COOLING	COOLED		ENT. FLUID (F)	L.V.G. FLUID (F)	FLUID FLOW (GPM)	PRESSURE DROP (FT)	ENT. FLUID (F)	L.V.G. FLUID (F)	FLUID FLOW (GPM)	PRESSURE DROP (FT)	STYLE	PLATES	GASKETS		
HE-1	MUA HEATING UNIT	WATER/ 33% GLYCOL	WATER/ 50% GLYCOL	813	187	168	91	2.3	187	170	85	2.3	PLATE 4 FRAME	65 PLATES	NITRITE	BELL & GOSSETT	GFX

SEP Architecture Inc.
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Mechanical design group
 PROJECT No. 14-042
 CONTACT: JOHN

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
Regina Mechanical Design Group
 Number C1553
 Permission to Consult held by:
 Discipline: M.E.C.H. Sk. Reg. No. 15963 Signature: [Signature]



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Revision/Revision	Description/Description	Date/Date
	Client/client	

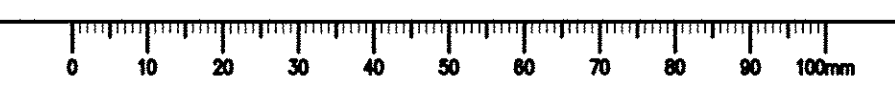
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'TENDER PACKAGE ONE'
MECHANICAL UPGRADE WORKS BUILDING REGINA, SASK.

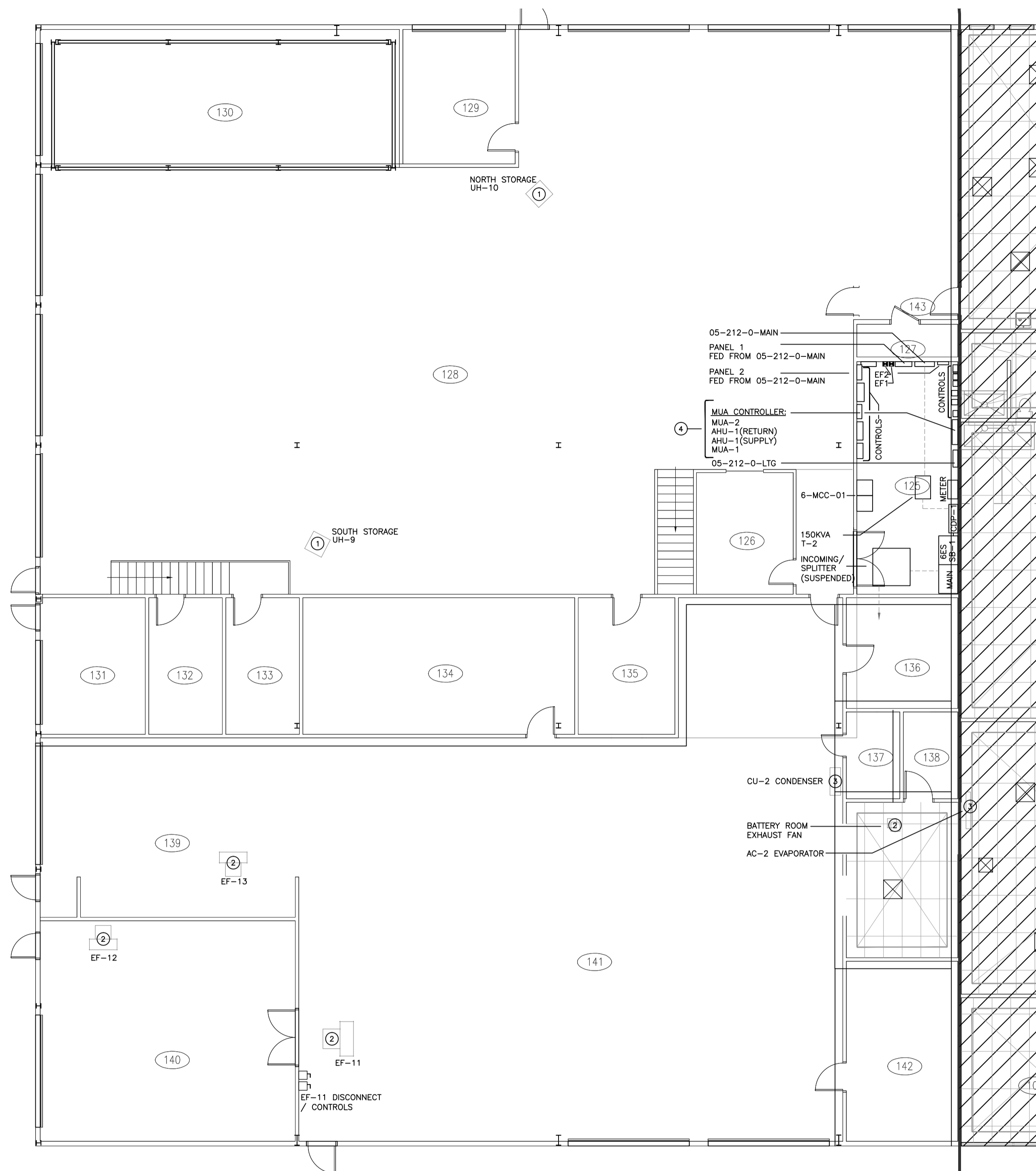
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 J.Y.
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 Drawn by/Dessine par
 Jlg
 Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'ingénierie

Drawing title/Titre du dessin
SCHEDULES / DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./La Revision no.
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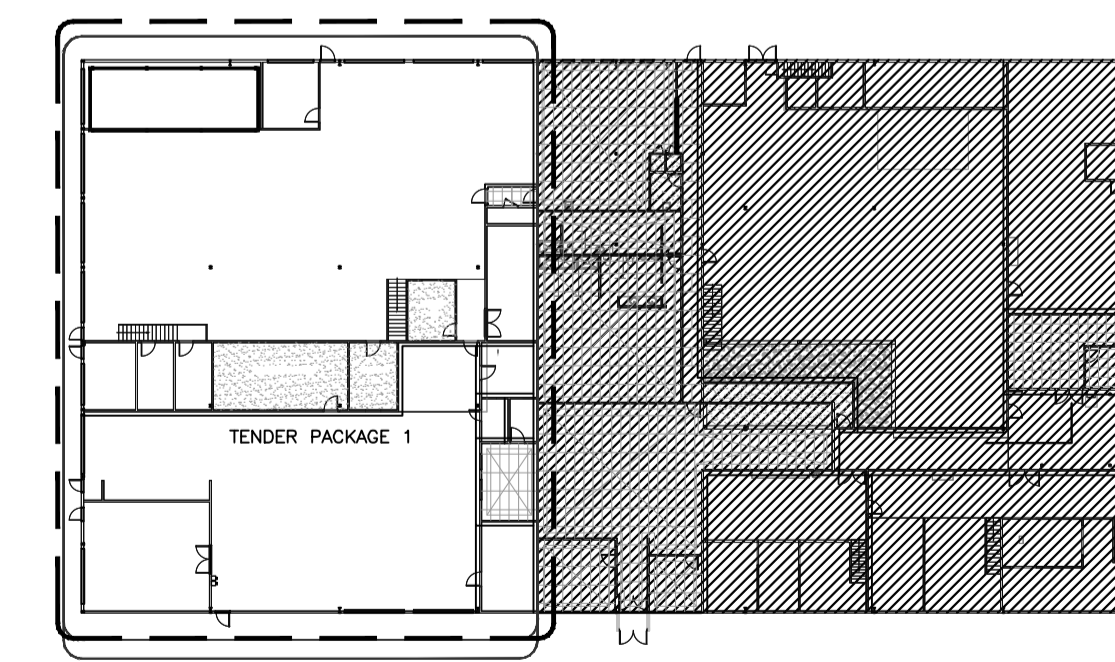
1 MAIN FLOOR DEMOLITION PLAN
E1.1 1:100

MAIN FLOOR DEMOLITION DRAWING NOTES

- ① EXISTING UNIT HEATER SHALL BE REMOVED.
- ② EXISTING EXHAUST FAN SHALL BE REMOVED.
- ③ EXISTING AC (AND CONDENSER) SHALL BE REMOVED.
- ④ EXISTING MAKE UP AIR CONTROLLER, DISCONNECTS AND ASSOCIATED ELECTRICAL PROVISIONS SHALL BE REMOVED ENTIRELY AND TURNED OVER TO OWNER.

MAIN FLOOR DEMOLITION GENERAL NOTES

1. DEMOLITION PLAN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VISIT THE SITE DURING TENDER TO DETERMINE THE EXTENT OF DEMOLITION.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION OF ALL EXISTING LIGHTING, ELECTRICAL SYSTEMS, COMMUNICATION SYSTEMS, MEDICAL EMERGENCY AND FIRE ALARM SYSTEMS WITHIN THE RENOVATION AREA AS OUTLINED IN THE ELECTRICAL, MECHANICAL, AND ARCHITECTURAL DRAWINGS.
3. ALL SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER, UNLESS OTHERWISE NOTED, AND SHALL BE STOCKPILED AS PER THE OWNER'S INSTRUCTIONS. THE SALVAGEABLE MATERIALS SHALL BE REMOVED FOR THE PURPOSES OF REUSE, AND UNUSED MATERIALS SHALL BE RETURNED AS PER THE OWNER'S INSTRUCTIONS. THE FOLLOWING MATERIALS SHALL BE SALVAGED AND RETURNED TO OWNER: LIGHTING FIXTURES, WIRING DEVICES, NURSE CALL STATIONS AND COMPONENTS, MEDICAL EMERGENCY ALARM PUSHBUTTON STATIONS AND ASSOCIATED MONITOR MODULES AND COVERPLATES, FIRE ALARM FIELD DEVICES.
4. EXISTING LIGHTING FIXTURES AND WIRING DEVICES BEING REMOVED SHALL BE RE-USED/RELOCATED AS SHOWN ON THE FLOOR PLANS. UNUSED FIXTURES AND WIRING DEVICES (SWITCHES, DUPLEX RECEPTACLES) SHALL BE TURNED OVER TO OWNER.
5. ALL ABANDONED CONDUIT, DUCTS, BOXES, WIRE AND CABLE (EXISTING CONDITIONS AND AS A RESULT OF THE RENOVATIONS) SHALL BE COMPLETELY REMOVED BACK TO THE SOURCE OR ORIGIN.
6. ALL EXISTING POWER DISTRIBUTION (CONDUIT, CABLE, OUTLET BOXES) THAT IS ABANDONED BY THE RENOVATION SHALL BE COMPLETELY REMOVED BACK TO THE EXISTING ELECTRICAL PANELS.
7. ALL EXISTING DATA AND VOICE CABLING, CONDUITS AND TRAY THAT IS ABANDONED SHALL BE COMPLETELY REMOVED BACK TO THE BIX BLOCKS OR DATA RACK, WHICH SHALL REMAIN.
8. EXISTING ELECTRICAL DEVICES ON WALLS NOT AFFECTED BY THE RENOVATION THAT ARE NOT SHOWN ON THE DRAWINGS SHALL REMAIN.
9. WHERE WALLS ARE TO BE REMOVED, THE CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL DEVICES SUCH AS RECEPTACLES, SWITCHES, COMMUNICATIONS AND DATA OUTLETS AND FIRE ALARM DEVICES.
10. ALL EXISTING DEVICES, INCLUDING BUT NOT LIMITED TO, WIRELESS ACCESS POINTS, SPEAKERS, EMERGENCY LIGHT FIXTURES AND REMOTE HEADS, EXIT SIGNS, FIRE ALARM DEVICES, SECURITY DEVICES ETC. WITHIN DEMOLITION AREA SHALL BE MAINTAINED UNLESS OTHERWISE NOTED. CEILING MOUNTED DEVICES REQUIRING ADJUSTMENT, DUE TO NEW T-BAR INSTALLATION, SHALL BE REMOVED AND RE-INSTALLED IN SAME GENERAL LOCATION.
11. ALL ELECTRICAL PROVISIONS ASSOCIATED WITH DEMOLISHED EQUIPMENT SHALL BE REMOVED BACK TO SOURCE. ALL EQUIPMENT SHALL BE TURNED OVER TO OWNER FOR FIRST RIGHT OF REFUSAL.



2 MAIN FLOOR AREA OF WORK KEY PLAN
E1.1 1:500

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ASSOCIATION OF PROFESSIONAL ENGINEERS
 OF SASKATCHEWAN
 CERTIFICATE OF AUTHORIZATION
RITENBURG & ASSOCIATES LTD.
 NUMBER 52
 PERMISSION TO CONSULT HELD BY:
 DISCIPLINE: ELECTRICAL REG. NO.: 9273 SIGNATURE: [Signature]

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0	PACKAGE SPLIT - "TENDER PACKAGE ONE"	2015/09/04

Revision/	Description/Description	Date/Date

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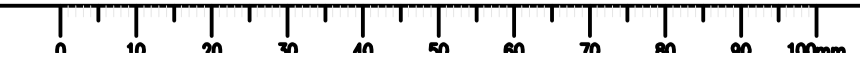
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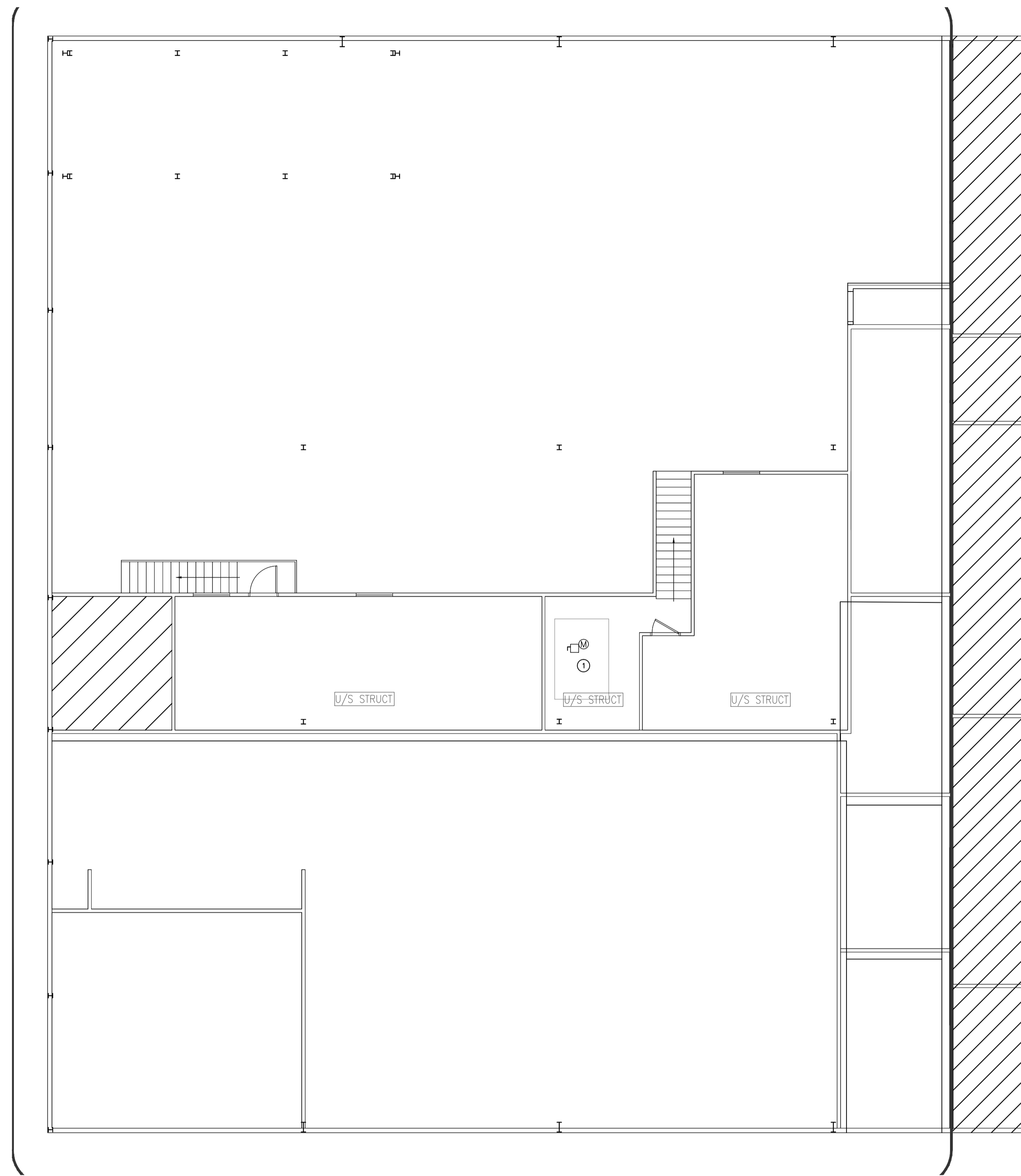
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MAIN FLOOR
DEMOLITION PLAN

Project No./No. du projet	Sheet/Fauille	Revision no./Le Révision no.
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E1.1





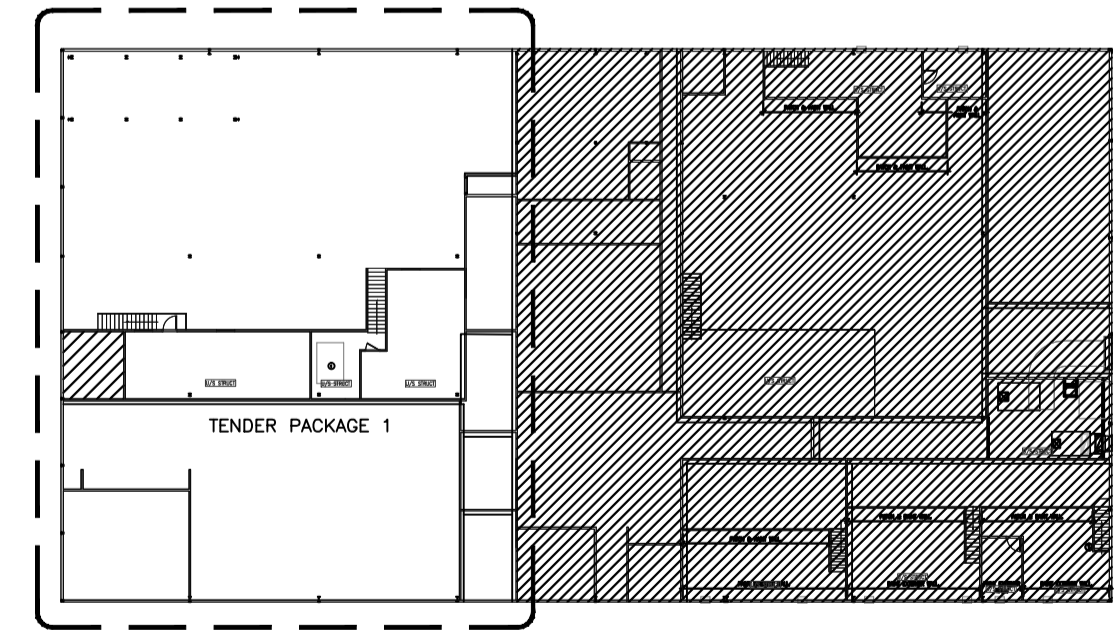
1 MEZZANINE DEMOLITION PLAN
E1.2 1:100

MEZZANINE DEMOLITION DRAWING NOTES

- 1 EXISTING MAKE UP AIR UNIT #2 AND CIRCULATION FAN UNIT SHALL BE REMOVED.

MEZZANINE GENERAL DEMOLITION NOTES

- DEMOLITION PLAN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VISIT THE SITE DURING TENDER TO DETERMINE THE EXTENT OF DEMOLITION.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION OF ALL EXISTING LIGHTING, ELECTRICAL SYSTEMS, COMMUNICATION SYSTEMS, MEDICAL EMERGENCY AND FIRE ALARM SYSTEMS WITHIN THE RENOVATION AREA AS OUTLINED IN THE ELECTRICAL, MECHANICAL, AND ARCHITECTURAL DRAWINGS.
- ALL SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER, UNLESS OTHERWISE NOTED, AND SHALL BE STOCKPILED AS PER THE OWNER'S INSTRUCTIONS. THE SALVAGEABLE MATERIALS SHALL BE REMOVED FOR THE PURPOSES OF REUSE, AND UNUSED MATERIALS SHALL BE RETURNED AS PER THE OWNER'S INSTRUCTIONS. THE FOLLOWING MATERIALS SHALL BE SALVAGED AND RETURNED TO OWNER: LIGHTING FIXTURES, WIRING DEVICES, NURSE CALL STATIONS AND COMPONENTS, MEDICAL EMERGENCY ALARM PUSHBUTTON STATIONS AND ASSOCIATED MONITOR MODULES AND COVERPLATES, FIRE ALARM FIELD DEVICES.
- EXISTING LIGHTING FIXTURES AND WIRING DEVICES BEING REMOVED SHALL BE RE-USED/RELOCATED AS SHOWN ON THE FLOOR PLANS. UNUSED FIXTURES AND WIRING DEVICES (SWITCHES, DUPLEX RECEPTACLES) SHALL BE TURNED OVER TO OWNER.
- ALL ABANDONED CONDUIT, DUCTS, BOXES, WIRE AND CABLE (EXISTING CONDITIONS AND AS A RESULT OF THE RENOVATIONS) SHALL BE COMPLETELY REMOVED BACK TO THE SOURCE OR ORIGIN.
- ALL EXISTING CEILING POWER DISTRIBUTION (CONDUIT, CABLE, OUTLET BOXES) THAT IS ABANDONED BY THE RENOVATION SHALL BE COMPLETELY REMOVED BACK TO THE EXISTING ELECTRICAL PANELS.
- ALL EXISTING DATA AND VOICE CABLING, CONDUITS AND TRAY THAT IS ABANDONED SHALL BE COMPLETELY REMOVED BACK TO THE BIX BLOCKS OR DATA RACK, WHICH SHALL REMAIN.
- EXISTING ELECTRICAL DEVICES ON WALLS NOT AFFECTED BY THE RENOVATION THAT ARE NOT SHOWN ON THE DRAWINGS SHALL REMAIN.
- WHERE WALLS ARE TO BE REMOVED, THE CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL DEVICES SUCH AS RECEPTACLES, SWITCHES, COMMUNICATIONS AND DATA OUTLETS AND FIRE ALARM DEVICES.
- ALL EXISTING DEVICES, INCLUDING BUT NOT LIMITED TO, WIRELESS ACCESS POINTS, SPEAKERS, EMERGENCY LIGHT FIXTURES AND REMOTE HEADS, EXIT SIGNS, FIRE ALARM DEVICES, SECURITY DEVICES ETC., WITHIN DEMOLITION AREA SHALL BE MAINTAINED UNLESS OTHERWISE NOTED. CEILING MOUNTED DEVICES REQUIRING ADJUSTMENT, DUE TO NEW T-BAR INSTALLATION, SHALL BE REMOVED AND RE-INSTALLED IN SAME GENERAL LOCATION.
- ALL ELECTRICAL PROVISIONS ASSOCIATED WITH DEMOLISHED EQUIPMENT SHALL BE REMOVED BACK TO SOURCE. ALL EQUIPMENT SHALL BE TURNED OVER TO OWNER FOR FIRST RIGHT OF REFUSAL.



2 MEZZANINE AREA OF WORK KEY PLAN
E1.2 1:500

SEPW Architecture Inc.
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0	PACKAGE SPLIT - "TENDER PACKAGE ONE"	2015/09/04

Revision/Revision	Description/Description	Date/Date

Client/client

Project title/Titre du projet
'TENDER PACKAGE ONE'
MECHANICAL UPGRADE WORKS BUILDING REGINA, SASK.

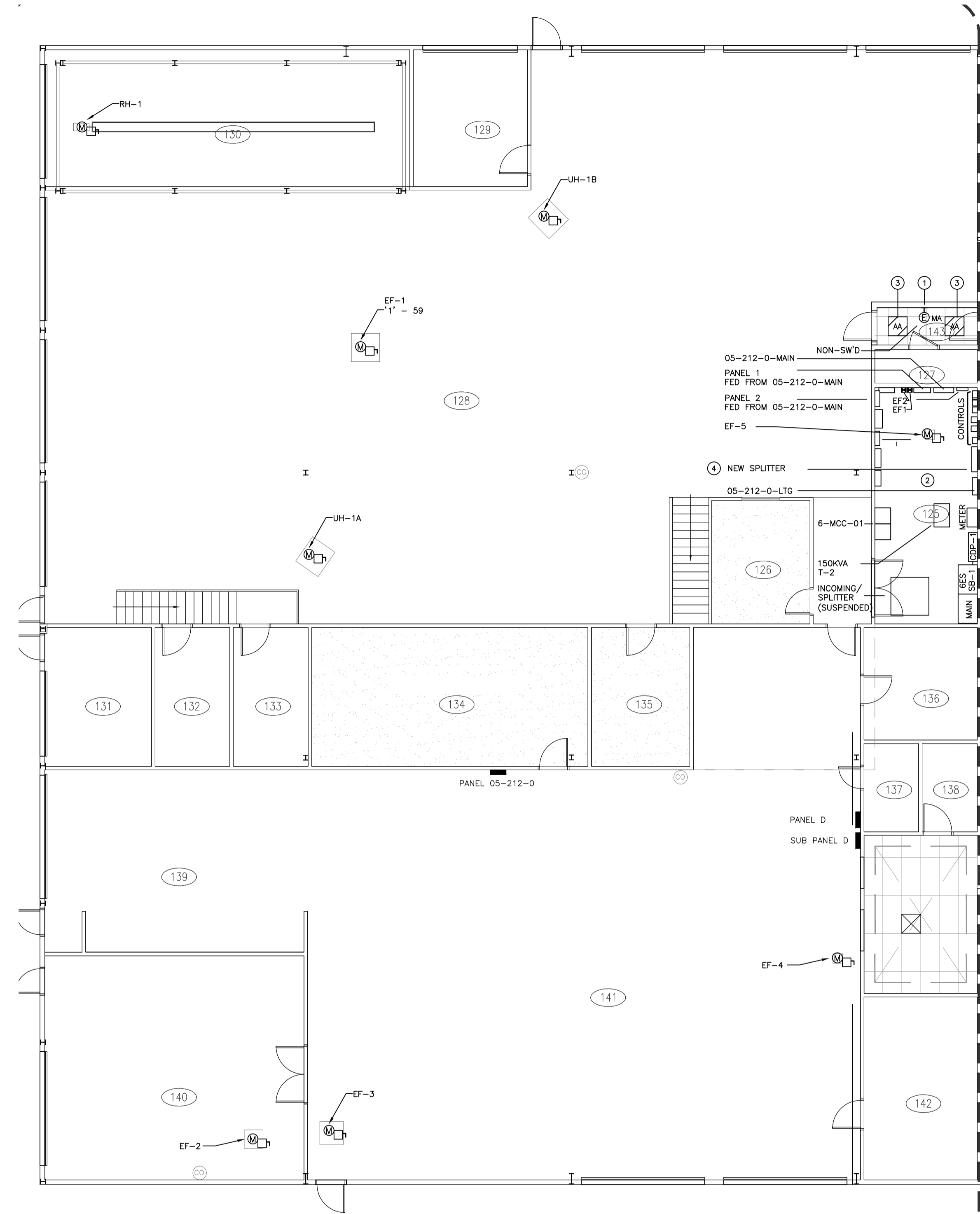
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Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'Ingénierie
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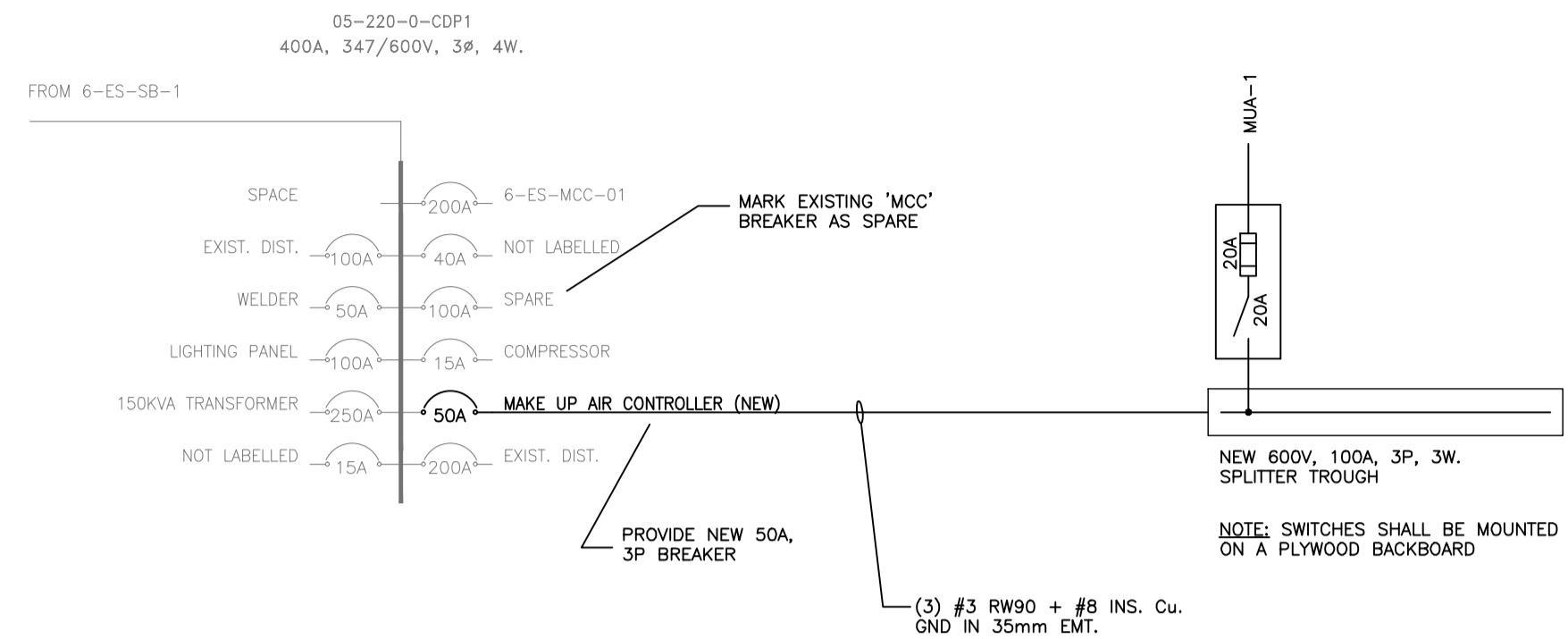
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MEZZANINE DEMOLITION PLAN

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1 MAIN FLOOR POWER & SYSTEMS PLAN
E2.1 1:100



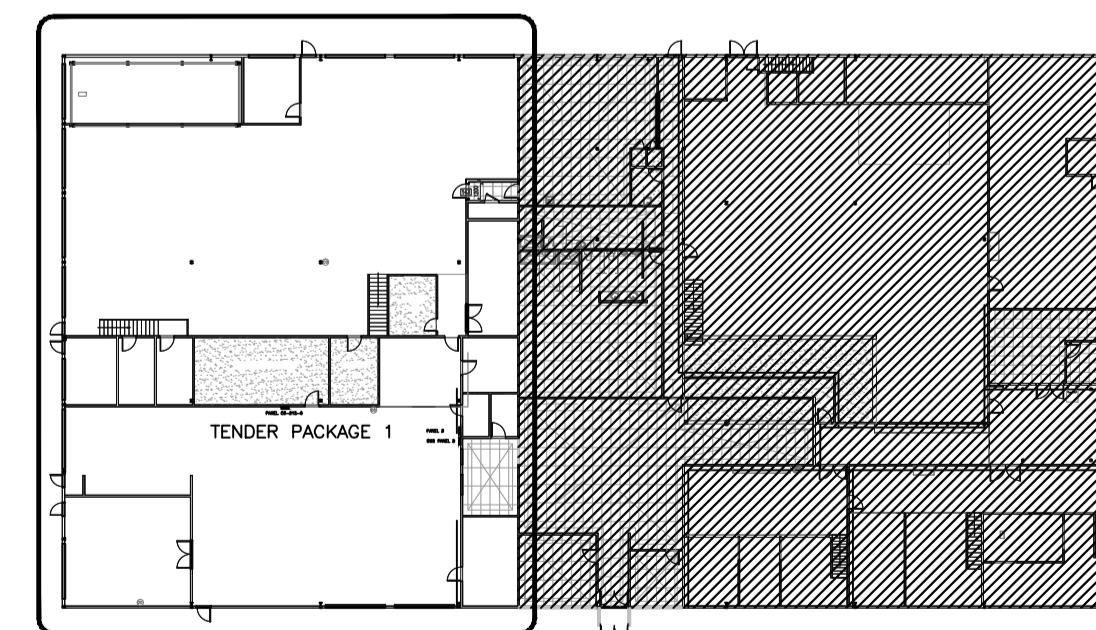
2 NEW MUA SPLITTER SINGLE LINE
E2.1 1:100

MAIN FLOOR DRAWING NOTES

- CONNECT TO VESTIBULE LIGHTING CIRCUIT.
- CONFIRM FINAL LOCATION FOR CO PANEL WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
- OWNER SUPPLIED TYPE 'AA' FIXTURE SHALL BE TIED INTO NEAREST 347V LIGHTING CIRCUIT.
- CONTRACTOR SHALL PROVIDE NEW 100A SPLITTER TO BE FED FROM EXISTING 100A BREAKER LABELED 'MCC'. REFER TO DETAIL 2.

MAIN FLOOR GENERAL NOTES

- ALL EXISTING DEVICES, INCLUDING BUT NOT LIMITED TO, WIRELESS ACCESS POINTS, SPEAKERS, EMERGENCY LIGHT FIXTURES AND REMOTE HEADS, EXIT SIGNS, FIRE ALARM DEVICES, SECURITY DEVICES ETC., WITHIN DEMOLITION AREA SHALL BE MAINTAINED UNLESS OTHERWISE NOTED. CEILING MOUNTED DEVICES, OR DEVICES REQUIRING ADJUSTMENT DUE TO NEW T-BAR INSTALLATION, SHALL BE REMOVED AND RE-INSTALLED IN SAME GENERAL LOCATION. EXISTING FIRE ALARM IS NOTIFIER.
- CONTRACTOR SHALL COORDINATE EXHAUST FAN NUMBERS WITH OWNER PRIOR TO LABELING AND UPDATING PANEL SCHEMATICS.
- RECESSED LIGHTS SHALL BE INSTALLED IN SAME LOCATION, AS NOTED ON DEMOLITION DRAWINGS.
- CABLING FOR 15A, 120V SHALL BE AS LISTED BELOW:
#12 RW90 CONDUCTOR UP TO 20m
#10 RW90 CONDUCTOR UP TO 40m
#8 RW90 CONDUCTOR UP TO 55m



1 MAIN FLOOR AREA OF WORK KEY PLAN
E2.1 1:500

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Revision/Revision	Description/Description	Date/Date

Client/client

Project title/Titre du projet
**'TENDER PACKAGE ONE'
MECHANICAL UPGRADE
WORKS BUILDING
REGINA, SASK.**

Approved by/Approve par
Designed by/Concept par
Drawn by/Dessine par
Project Manager/Administrateur de Projets

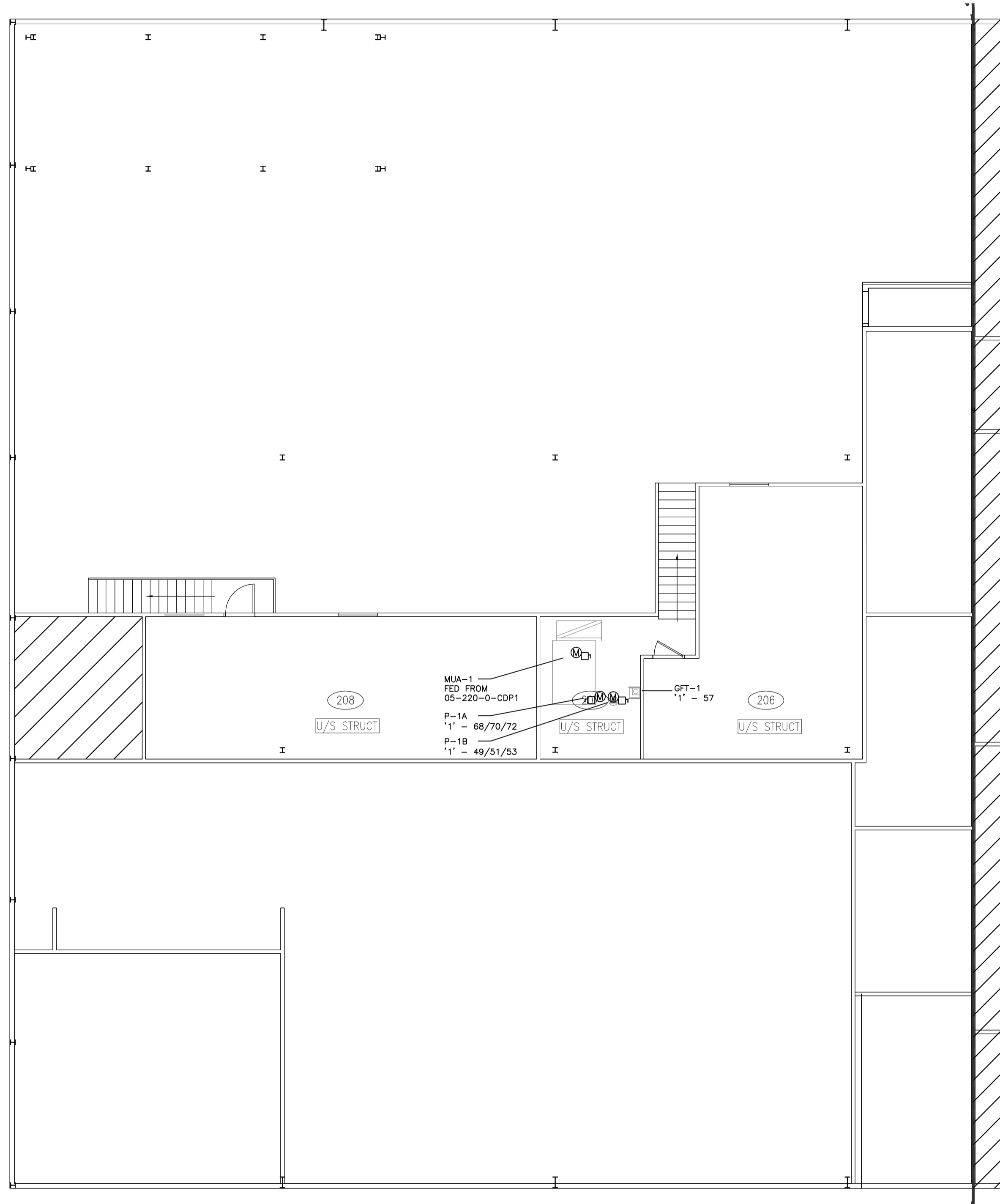
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Client/client

Drawing title/Titre du dessin
**MAIN FLOOR
ELECTRICAL POWER PLAN**

Project No./No. du projet
Sheet/Fauille
Revision no./Le Révision no.

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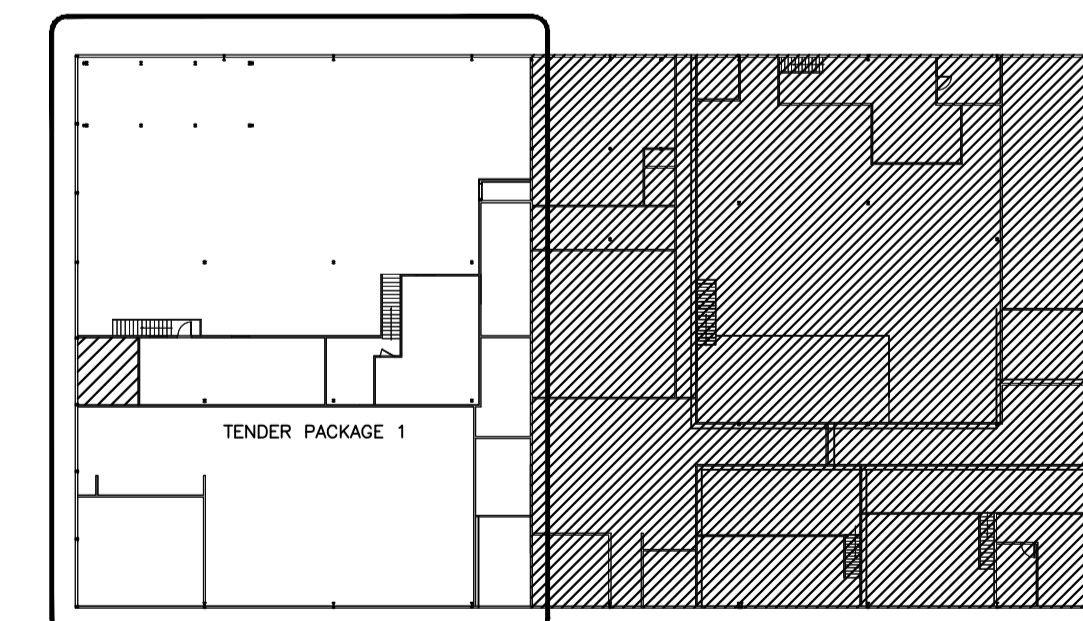




1 MEZZANINE POWER & SYSTEMS PLAN
E2.2 1:100

MEZZANINE GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE EXHAUST FAN NUMBERS WITH OWNER PRIOR TO LABELING AND UPDATING PANEL SCHEMATICS.
2. CABLING FOR 15A, 120V SHALL BE AS LISTED BELOW:
 #12 RW90 CONDUCTOR UP TO 20M
 #10 RW90 CONDUCTOR UP TO 40m
 #8 RW90 CONDUCTOR UP TO 55m



1 MEZZANINE AREA OF WORK KEY PLAN
E2.2 1:500



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0	PACKAGE SPLIT - "TENDER PACKAGE ONE"	2015/09/04

Revision/Revision	Description/Description	Date/Date
Client/client		

Project title/Titre du projet

'TENDER PACKAGE ONE'
**MECHANICAL UPGRADE
 WORKS BUILDING
 REGINA, SASK.**

Approved by/Approuvé par

Designed by/Concept par

Drawn by/Dessiné par

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'Ingénierie

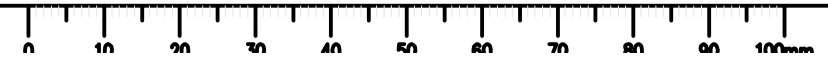
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**MEZZANINE
 ELECTRICAL POWER PLAN**

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E2.2



SYMBOL SCHEDULE

- [] [] JUNCTION BOX/OUTLET BOX.
- [] [] [] CEILING/WALL SURFACE MOUNTED LED, FLUORESCENT, OR HIGH INTENSITY DISCHARGE FIXTURE.
- [] [] RECESSED LED, FLUORESCENT, OR HIGH INTENSITY DISCHARGE FIXTURE.
- [] [] [] FLUORESCENT OR LED FIXTURE, SURFACE MOUNTED OR SUSPENDED.
- [] [] [] FLUORESCENT OR LED FIXTURE, RECESSED.
- [] [] [] CEILING/WALL MOUNTED EMERGENCY OR COMBINATION EXIT/EMERGENCY LIGHT FIXTURE
- [] [] [] FIXTURE SHOWN SHADED DESIGNATEDS UNIT IS CONNECTED TO EMERGENCY POWER DISTRIBUTION. SUFFIX "NON-SWD" DESIGNATES UNIT AS A NON-SWITCHED NIGHT LIGHT.
- (a) [] [] [] LETTER SUFFIX ADJACENT TO FIXTURE DESIGNATES SWITCH CONTROL.
- [] [] [] ELECTRICAL DISTRIBUTION PANEL, SURFACE/RECESSED.
- [] [] [] MOLDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED.
- [] [] [] MOLDED CASE TYPE CIRCUIT BREAKER, GROUND FAULT INTERRUPTER 15 AMP UNLESS OTHERWISE NOTED.
- [] [] [] MOLDED CASE TYPE CIRCUIT BREAKER, SIZE AS NOTED ON DRAWINGS.
- [] [] [] FUSIBLE SWITCH
- [] [] [] MOTOR CONNECTION. COORDINATE FINAL LOCATION ON SITE. REFER TO MOTOR CONTROL SCHEDULE - "STP" DESIGNATES MOTOR THERMAL SWITCH MOUNTED AT UNIT.
- [] [] [] MAGNETIC MOTOR STARTER
- [] [] [] COMBINATION MOTOR STARTER/DISCONNECT.
- [] [] [] DISCONNECT SWITCH. SUFFIX "WP" INDICATES WEATHERPROOF.
- [] [] [] MOTOR SPEED CONTROLLER SUPPLIED BY THE MECHANICAL CONTRACTOR. INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR. MOUNT UP 1200mm. CO-ORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
- [] [] [] S.P.S.T. SWITCH MOUNTED UP 1200mm. PROVIDE KEY OPERATED SWITCH WHERE SUFFIXED "K".
- [] [] [] DUPLEX GROUNDED RECEPTACLE MOUNTED UP 450mm.
- [] [] [] TWO DUPLEX RECEPTACLES MOUNTED IN A COMMON BOX MOUNTED UP 450mm ABOVE VANITY OR AS NOTED.
- [] [] [] DUPLEX GROUND FAULT CURRENT INTERRUPTER RECEPTACLE MOUNTED 250mm ABOVE VANITY OR AS NOTED.
- [] [] [] TRANSIENT VOLTAGE SURGE SUPPRESSOR RECEPTACLE MOUNTED UP 450mm.
- [] [] [] DUPLEX GFI RECEPTACLE C/W DIECAST ALUMINUM WEATHERPROOF RESISTANT DOUBLE LID COVER ADAPT FOR FLUSH OR FS BOX MOUNTING MOUNTED UP 900mm.
- [] [] [] DUPLEX GROUNDED RECEPTACLE MOUNTED IN CEILING T-BAR.
- [] [] [] 20 AMP, 115 VOLT, T-SLOT DUPLEX RECEPTACLE MOUNTED UP 450mm OR AS INDICATED BY SUFFIX. RECEPTACLE SHALL BE A GROUND FAULT CURRENT INTERRUPTER WHERE SUFFIXED "GFI".
- [] [] [] BLANK OUTLET UP 450mm UNLESS NOTED OTHERWISE. PROVIDE A RECESSED J-BOX C/W STAINLESS STEEL COVERPLATE. RUN 21mm EMPTY CONDUIT TO ACCESSIBLE CEILING SPACE.
- [] [] [] FIRE ALARM HORN/STROBE SIGNAL DEVICE MOUNTED UP 2290mm A.F.F. - SHALL MATCH EXISTING
- [] [] [] FIRE ALARM MONITOR OR CONTROL RELAY MODULE

MECHANICAL SCHEDULE												
ITEM	EQUIPMENT NAME	HP	KW	VOLTS	Ø	FLA	STARTER	LOCATION	BREAKER	FEEDER	COMMENTS	
CM	CARBON MONOXIDE MONITOR	-	-	120	1	-	-	-	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 9	
EF-1	EXHAUST FAN ROOM 128	3/4	-	120	1	13.8	-	-	20A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 2, 6	
EF-2	EXHAUST FAN ROOM 140	1/4	-	120	1	5.8	FVNR	MCC	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 8	
EF-3	EXHAUST FAN ROOM 141	3/4	-	208	1	6.9	-	-	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 1, 2, 8	
EF-4	EXHAUST FAN ROOM 141	1/4	-	120	1	5.8	-	-	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 3, 8	
EF-5	EXHAUST FAN ROOM 125	1/4	-	120	1	5.8	-	-	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 3, 8	
GFT-1	GLYCOL PUMP	-	-	120	1	-	-	-	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 4	
MUA-1	MAKE UP AIR UNIT ROOM 207	5	-	600	3	-	-	-	15A	3 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 2, 7 MAIN FEEDER AMPS: 7.7A	
P-1A, 1B	CIRCULATION PUMP (MUA-1)	3	-	208	3	11	-	-	20A	3 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 1	
RH-1	RADIANT HEATER	-	-	120	1	1.5	-	-	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 10	
UH-1A & UH-1B	UNIT HEATERS	1/2	-	120	1	11	-	-	20A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 8	

MECHANICAL EQUIPMENT SCHEDULE NOTES

- NOT USED.
- UNIT IS COMPLETE WITH REMOTE MOUNTED FACTORY VFD. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH. DISCONNECT AND VFD SHALL BE MOUNTED AS CLOSE TO UNIT AS POSSIBLE. CONTRACTOR SHALL PROVIDE CONNECTION FROM UNIT TO DISCONNECT/VFD AND FROM VFD TO MOTOR.
- 120V ON/OFF WALL SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
- PROVIDE DEDICATED 120V RECEPTACLE FOR EACH PUMP.
- PROVIDE DEDICATED 120V CONNECTION TO NEW FPT BOXES.
- FACTORY SUPPLIED VFD AND DISCONNECT SHALL BE WALL MOUNTED NEAR EQUIPMENT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR.
- FACTORY SUPPLIED VFD IS INTEGRAL TO MECHANICAL EQUIPMENT.
- CONTRACTOR SHALL RE-USE AVAILABLE CIRCUIT/PANEL AVAILABLE FROM DEMOLITION. PROVIDE NEW DEDICATED ELECTRICAL PROVISIONS FOR EACH UNIT INCLUDING BREAKER, CABLING, CONDUIT, DISCONNECTS ETC.
- PROVIDE DEDICATED 120V CONNECTION FOR CO PANEL. PROVIDE 120V CONNECTION TO THREE (3) CO DETECTORS IN ROOMS 128, 140 AND 141.
- PROVIDE CONNECTION TO RH-1 FROM NEAREST AVAILABLE 120V CIRCUIT.

MECHANICAL EQUIPMENT GENERAL NOTES

- ALL LOCATIONS FOR MECHANICAL EQUIPMENT ARE APPROXIMATE LOCATIONS ONLY. ELECTRICAL CONTRACTOR SHALL CONFIRM EXACT LOCATION ON SITE WITH MECHANICAL CONTRACTOR.
- PROVIDE FIRE ALARM CONTROL MODULE TO SHUT DOWN MECHANICAL HVAC UNIT(S) UPON ACTIVATION OF FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE DUCT TYPE SMOKE DETECTORS FOR EACH SUPPLY AIR DUCT FROM MUA-1.
- FOR ALL EXTERIOR CONNECTIONS CONTRACTOR SHALL TRANSITION FROM EMT CONDUIT TO RIGID PVC. PROVIDE SLEEPERS TO SECURE ALL EXTERIOR CABLING/CONDUIT.
- ALL VAV BOXES, AND MOTORIZED DAMPERS, INCLUDING INTERLOCKS, ARE LOW VOLTAGE AND BY OTHERS.
- CONTROLS FOR UNIT HEATERS AND FTP BOXES ARE LOW VOLTAGE AND BY OTHERS.
- PROVIDE EXTERIOR "IN-USE" 20A GFI RECEPTACLE FOR ALL EXTERIOR MECHANICAL EQUIPMENT MOUNTED ON ROOF. PROVIDE LOCAL WEATHERPROOF DISCONNECT FOR 120V RECEPTACLE TO BE MOUNTED AS CLOSE TO RECEPTACLE AS POSSIBLE. WHERE MECHANICAL EQUIPMENT IS LOCATED INSIDE BUILDING PROVIDE 20A DEDICATED RECEPTACLE FROM NEAREST AVAILABLE 120/208V PANEL. MULTIPLE ROOF RECEPTACLES SHALL BE CONNECTED TO THE SAME CIRCUIT.
- OWNER SHALL PROVIDE EQUIPMENT NOMENCLATURE TO CONTRACTOR FOR ALL PANEL SCHEMATICS AND LAMECOIDS.



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MECHANICAL UPGRADE WORKS BUILDING REGINA, SASK.

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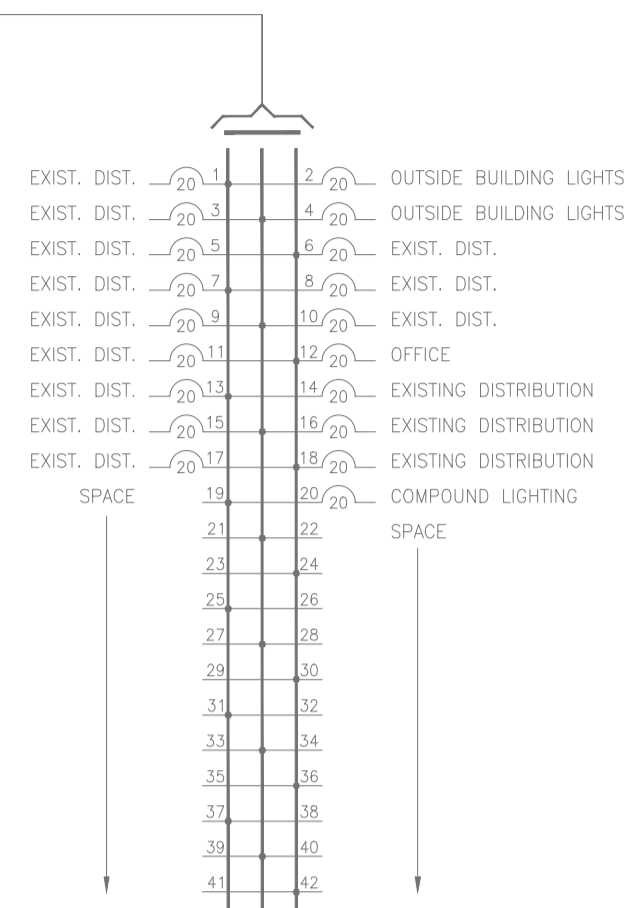
MECHANICAL SCHEDULE AND SYMBOL SCHEDULE

Project No./No. du projet	Sheet/Fauille	Revision no./Le Révision no.
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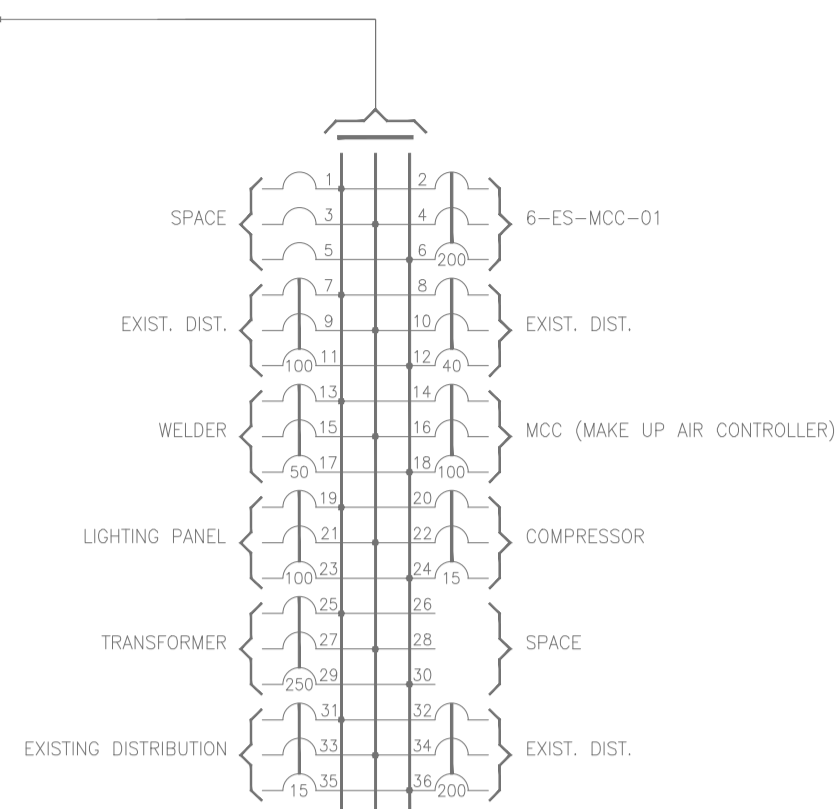
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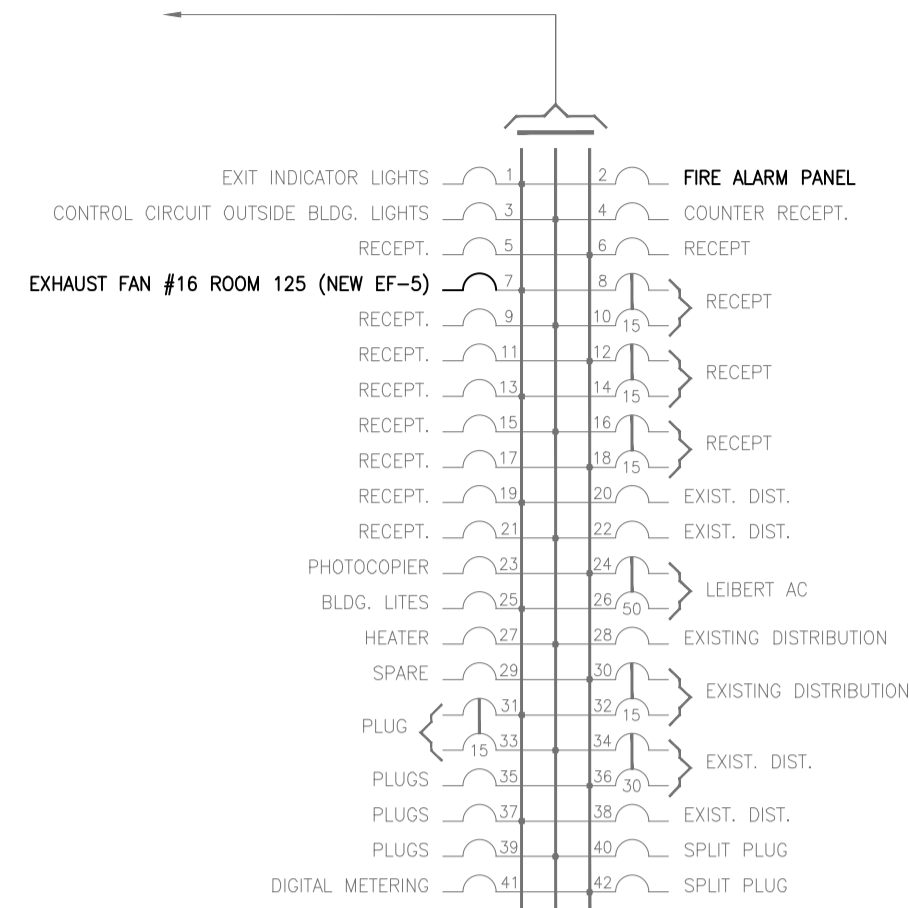
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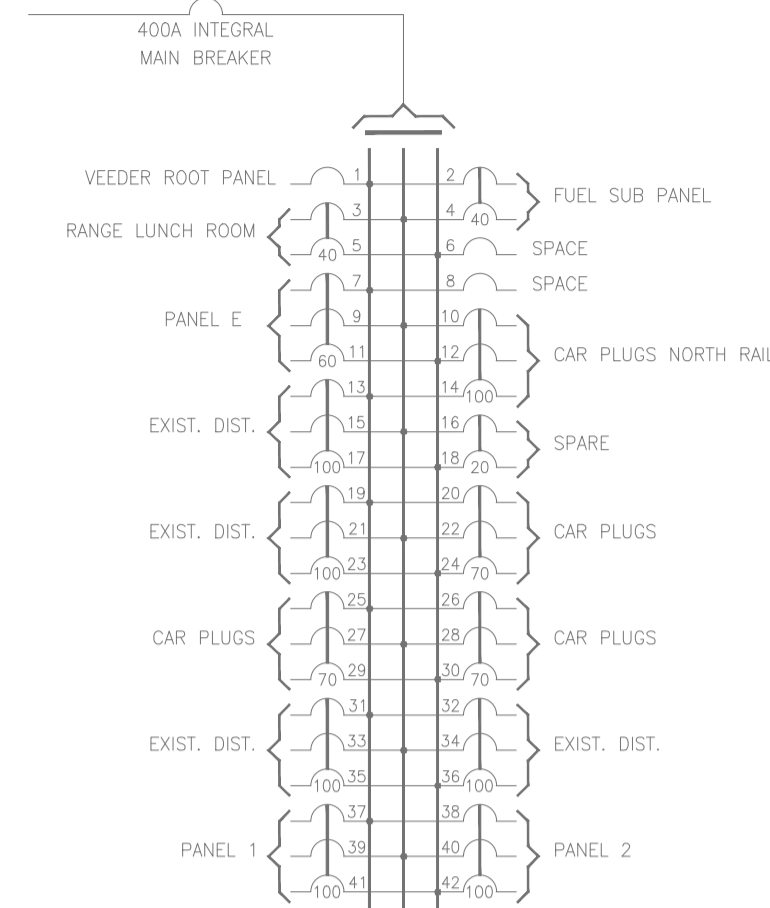
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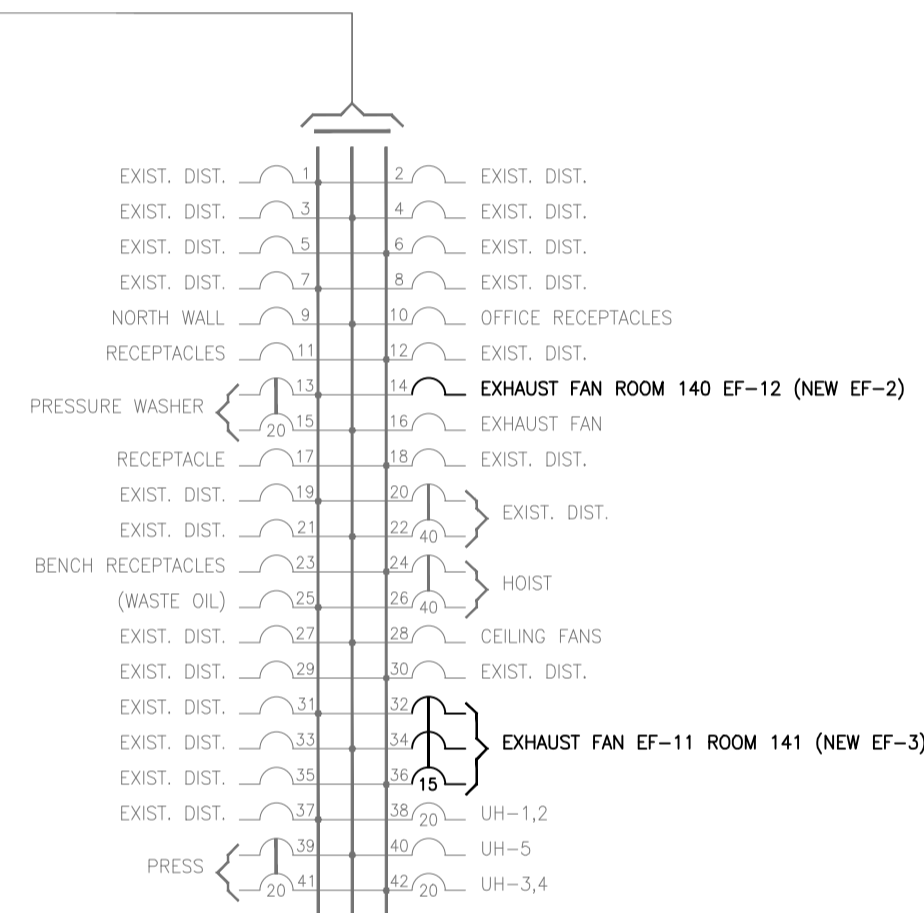
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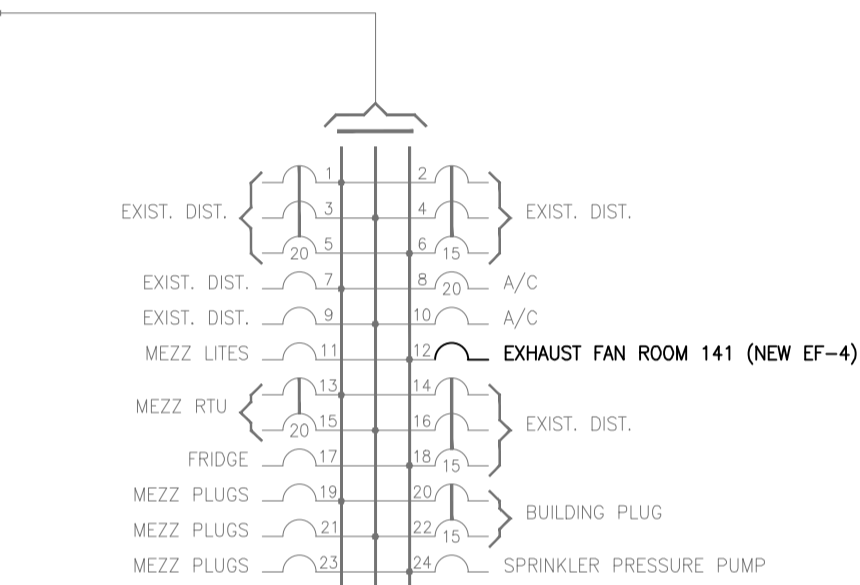
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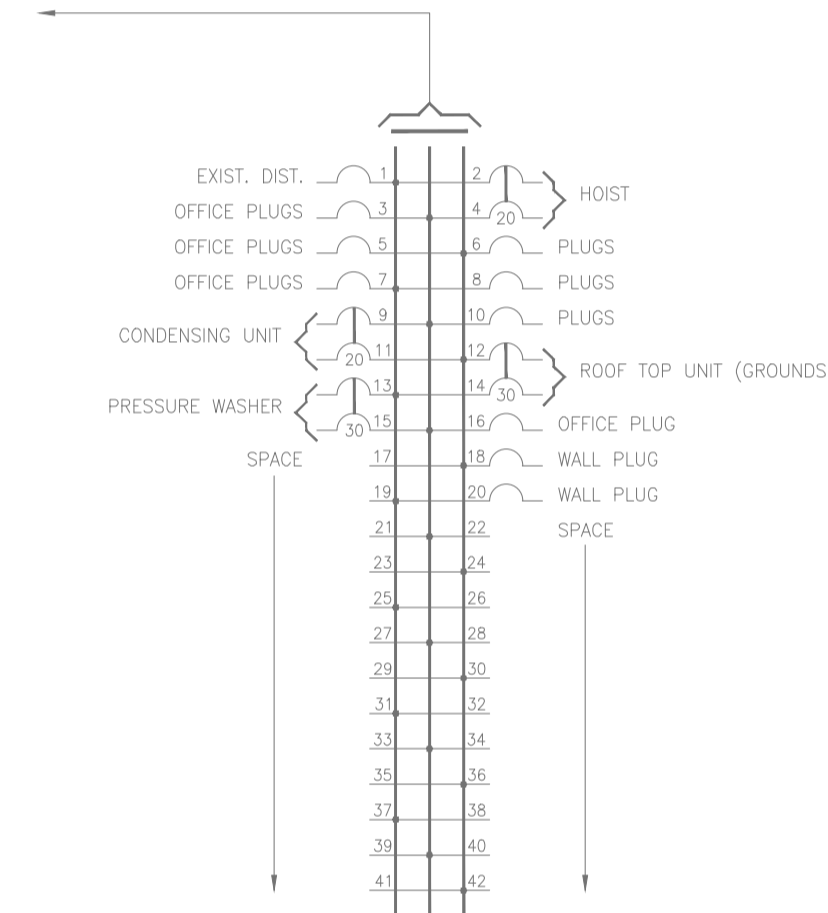
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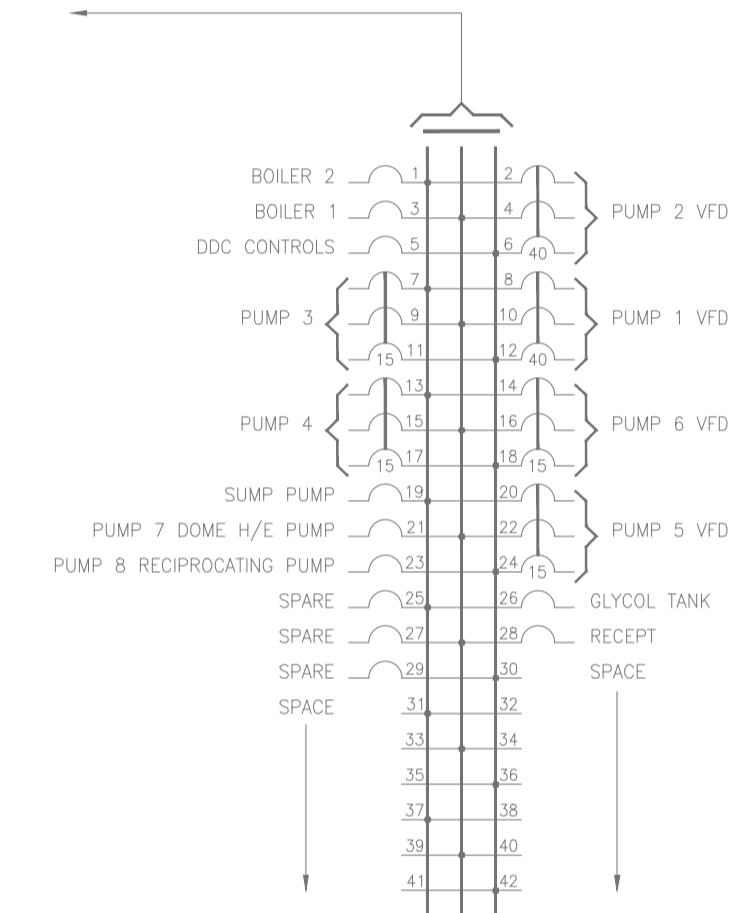
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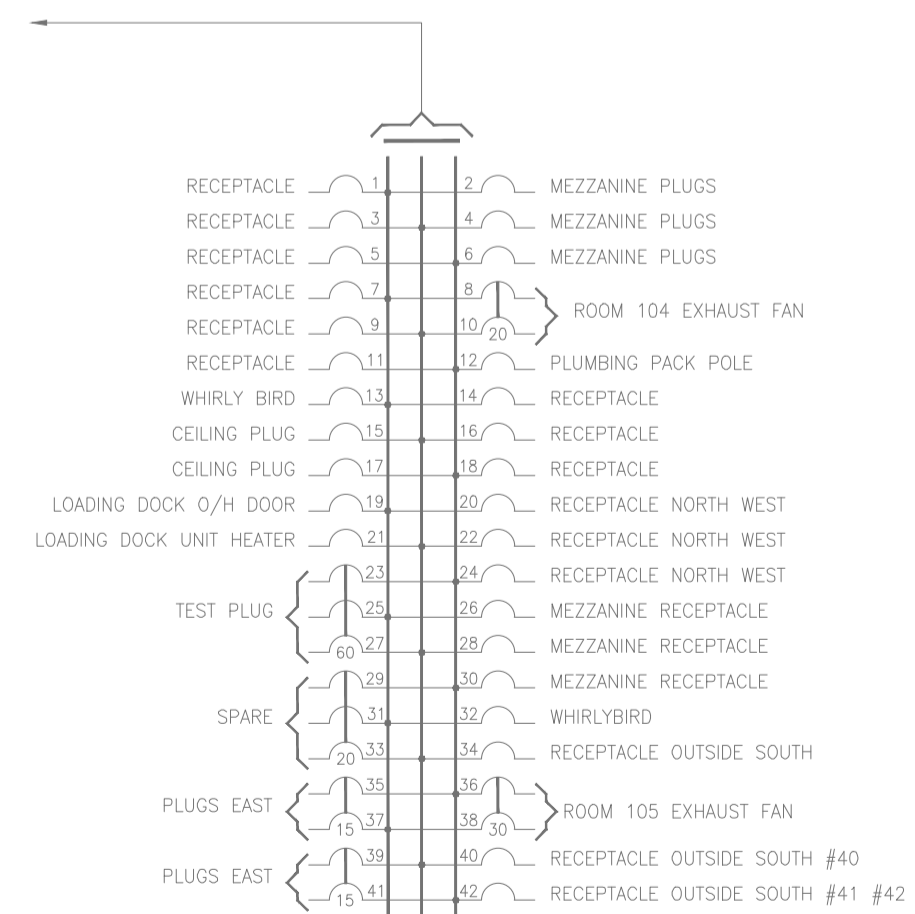
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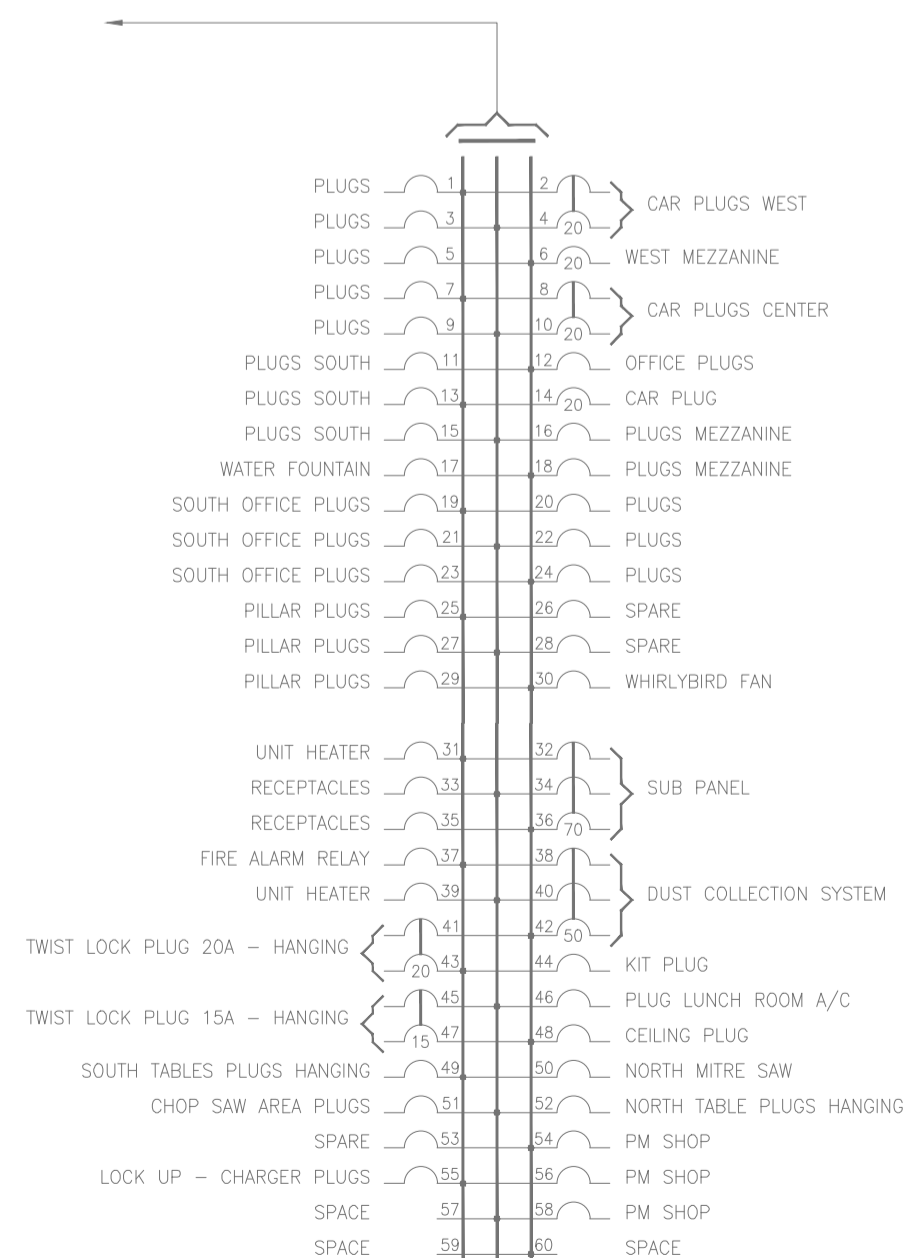
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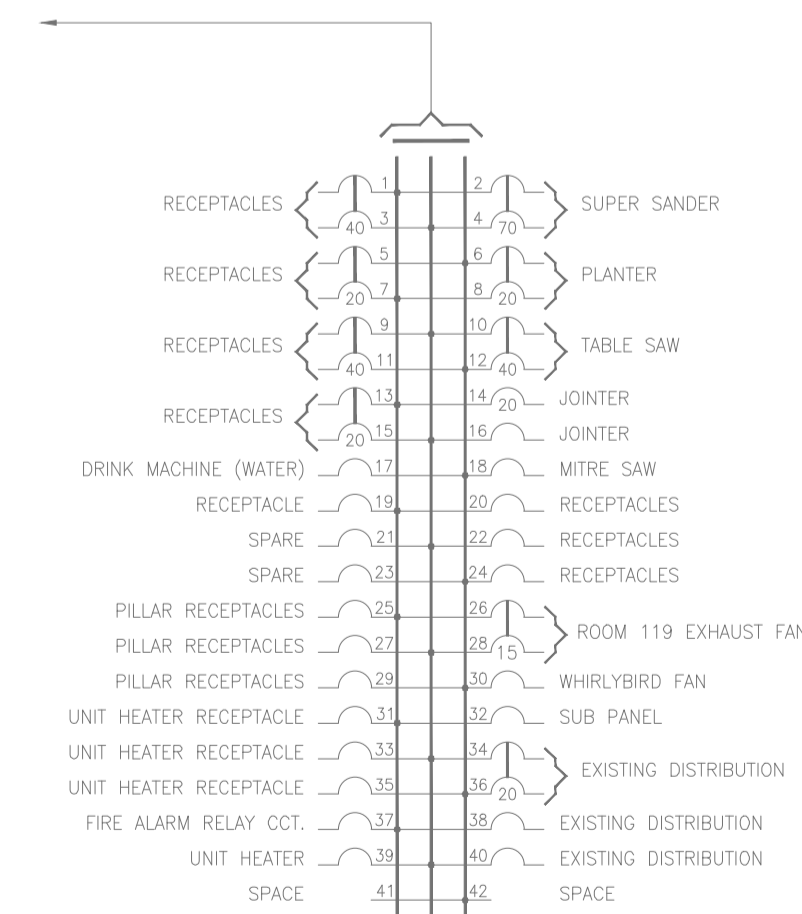
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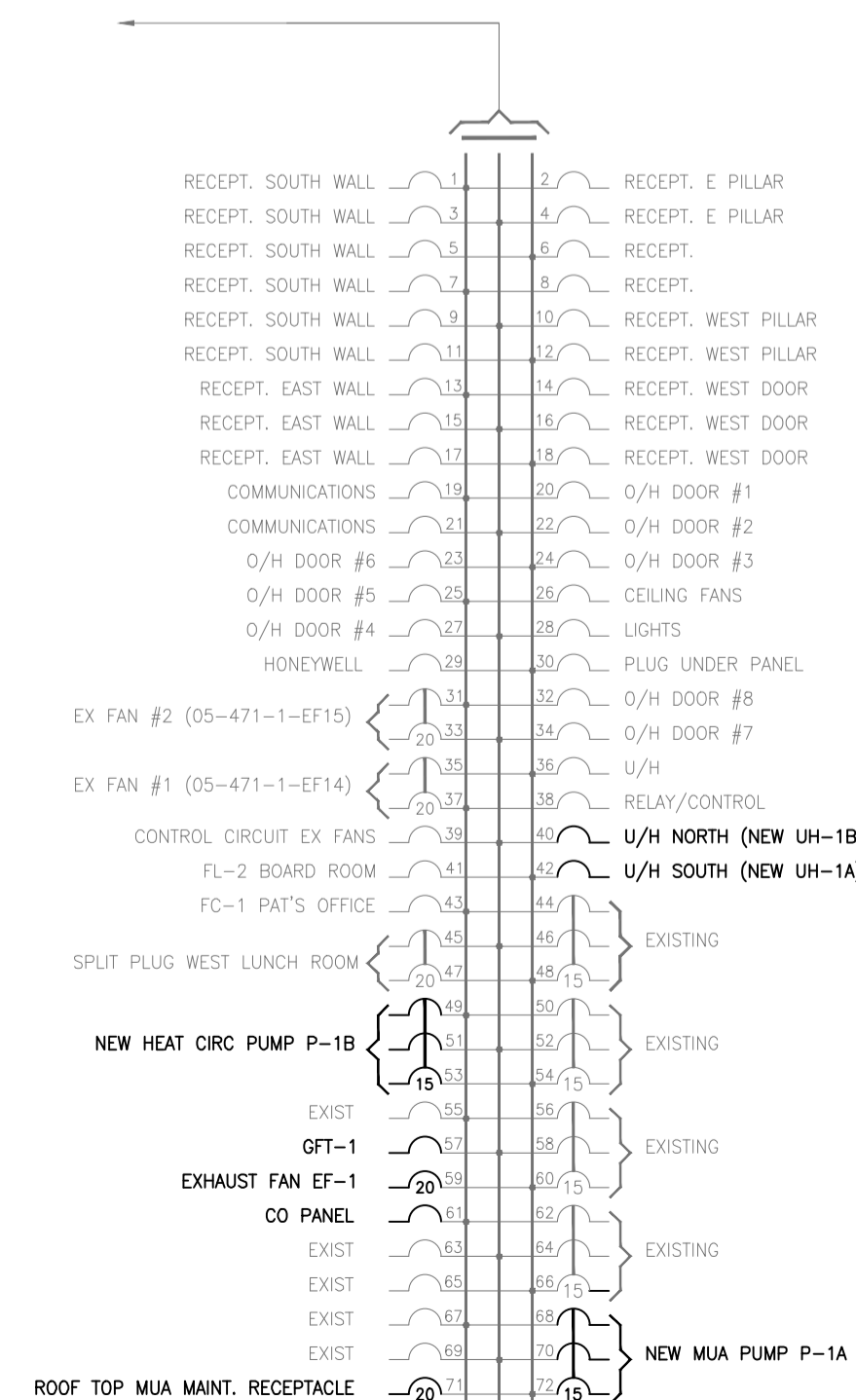
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(120/208 V.-3Ø-4W.)



PANEL "05-212-0-ROOM 119 PNL2"
(240 V.-3Ø-4W.)



PANEL "1"
(120/208V.-3Ø-4W.)



NOTE: THE EXISTING PANEL SCHEMATICS ARE FOR REFERENCE ONLY AND ARE SUBJECT TO REVISION. UNITS REMOVED IN DEMOLITION PHASE ARE SHOWN WITH NEW IDENTIFIERS, AS PER E3.1 FOR REFERENCE. CONTRACTOR SHALL CONFIRM ALL CONNECTIONS/PANELS PRIOR TO REMOVAL AND CONNECTION. ALL AFFECTED PANEL SCHEMATICS SHALL BE UPDATED. PROVIDE LAMECOD NAME PLATES FOR ALL PANELS AFFECTED BY THIS RENOVATION.

1 PANEL SCHEMATIC
E4.1 N.T.S.



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RITENBURG & ASSOCIATES LTD.
NUMBER 52

DISCIPLINE	SASK. REG. No.	SIGNATURE
ELECTRICAL	9273	<i>[Signature]</i>

DO NOT SCALE DRAWINGS

5		
4		
3		
2		
1		
0	PACKAGE SPLIT-"TENDER PACKAGE ONE"	2015/09/04

Revision/Revision	Description/Description	Date/Date
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Project Title/Titre du projet

"TENDER PACKAGE ONE"

MECHANICAL UPGRADE WORKS BUILDING REGINA, SASK.

Approved by/Approve par

Designed by/Concept par

Drawn by/Dessine par

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing Title/Titre du dessin

PANEL SCHEMATICS

Project No./No. du projet	Sheet/Feuille	Revision no./Le Révision no.
	E4.1	

