

National
Defence

Défense
nationale

SET NO. - SÉRIE NO.

LIST OF DRAWINGS - LISTE DES DESSINS

STRUCTURAL- STRUCTURE

ARCHITECTURAL- ARCHITECTURAL

MECHANICAL - MÉCANIQUE

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MF500039-403	EXISTING KITCHEN REFRIGERATION SYSTEMS LAYOUT - DEMOLITION
MF500039-404	EXISTING PENTHOUSE MECHANICAL SYSTEMS LAYOUT - DEMOLITION
MF500039-405	KITCHEN NEW REFRIGERATION SYSTEMS LAYOUT
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ELECTRICAL - ÉLECTRICITÉ

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MF500039-503	ELECTRICAL LAYOUT - PENTHOUSE

NOT FOR CONSTRUCTION

DCC NO. - CDC NO.

PROJECT NO. - PROJET NO.

MF500039

JOB NO.

4CDTC MEAFORD M206 REFRIGERATION LIFECYCLE

MEAFORD, ONTARIO

ISSUED FOR TENDER

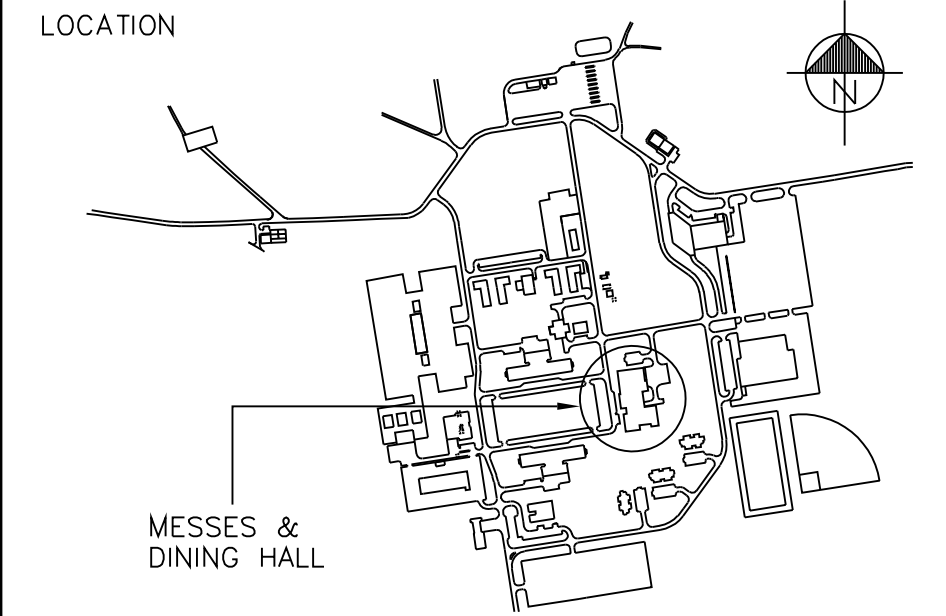
Canada

Date: JUN. 27, 2023

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4	2022/12/13	RE-ISSUED FOR 90% REVIEW	D.S.
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2	2022/05/19	RE-ISSUED FOR 60% REVIEW	D.S.
1	2022/04/12	ISSUED FOR 60% REVIEW	D.S.
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
4TH CANADIAN DIVISION TRAINING CENTRE (4 CDT), MEAFORD, ONTARIO

PROJECT | PROJET
M-206 REFRIGERATION LIFECYCLE

TRADE | MÉTIER
MECHANICAL

DATE
2021/01/26

SUBJECT | SUJET
NOTES, SYMBOLS, ABBREVIATIONS, AND DESIGN CRITERIA

DESIGNED ÉTUDE	xx xx	DES O AGENT CONC
F.P.		
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COORDINATION		FIRE INCENDIE
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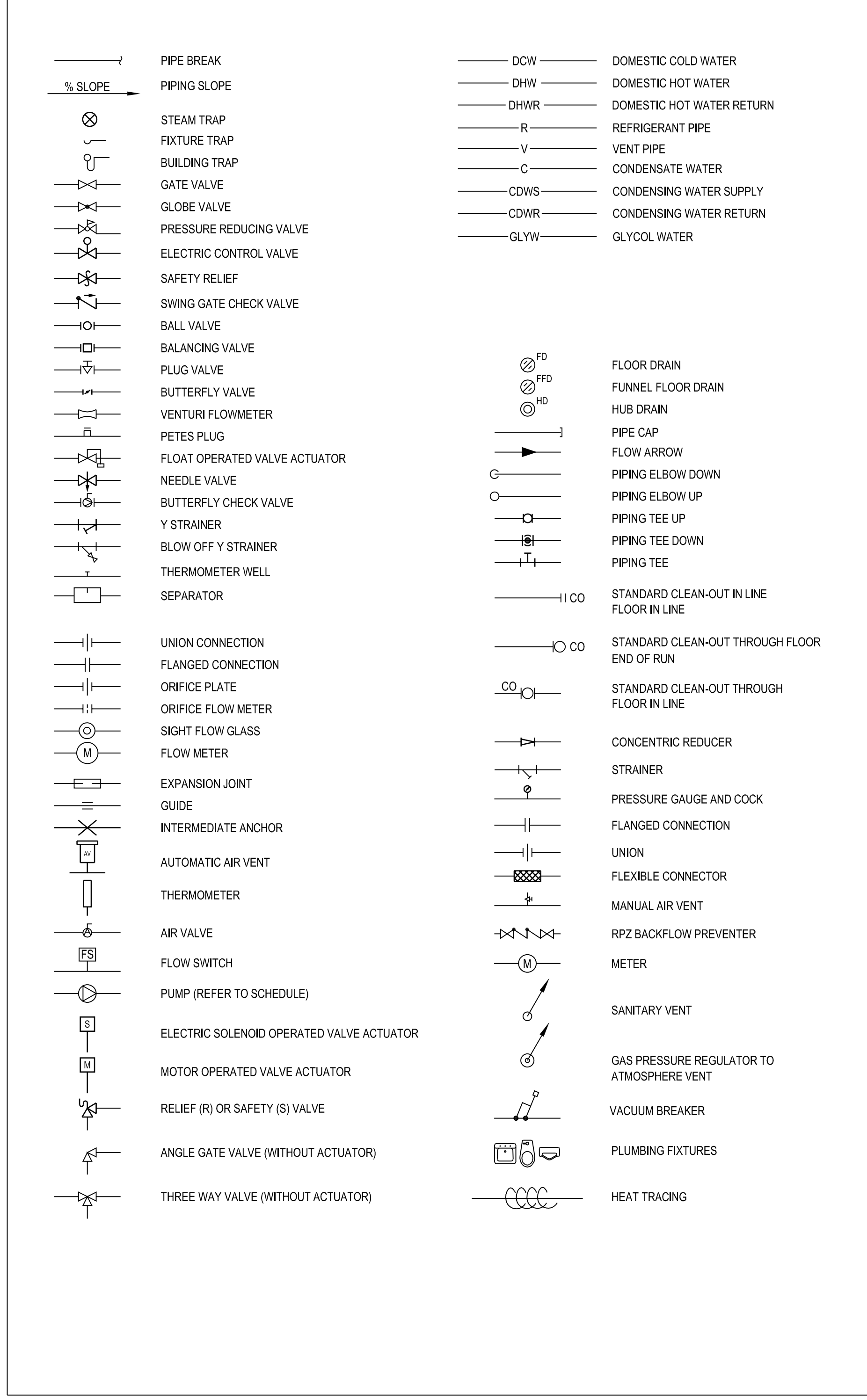
WBS NO. | NO. OTP
N203111.03.02

PF NO. | NO. DP
MF500039

DWG. NO. | NO. DESSIN
L-M95-4901/6-401



PIPING IDENTIFICATION AND SYMBOLS



DESIGN CRITERIA

- APPLICABLE DESIGN STANDARD AND CODES, INCLUDE BUT ARE NOT LIMITED TO
 - NATIONAL BUILDING CODE OF CANADA, 2020 (NBCC)
 - NATIONAL FIRE CODE 2020 (NFC)
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
 - CANADIAN STANDARDS ASSOCIATION (CSA)
 - INTERNATIONAL STANDARD ORGANIZATION (ISO)
 - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 - ASHRAE 62.1 - 2022
 - ASSOCIATION ADVANCING OCCUPATIONAL AND ENVIRONMENTAL HEALTH (ACGIH)
 - NATIONAL PLUMBING CODE OF CANADA 2020 (NPC)
 - CANADIAN ELECTRICAL CODE 2021
- OUTDOOR DESIGN TEMPERATURES BASED ON NBC 2015 CLIMATIC DATA FOR OWEN SOUND, ONTARIO, SUMMER TEMPERATURE AT 2.5% BASIS: 29°C DRY, 22°C WET; WINTER TEMPERATURE AT 1% BASIS: -21°C. ELEVATION OF 215 M.
- WALK-IN COOLERS DESIGN TEMPERATURE AT 2°-4°C, WALK-IN FREEZERS DESIGN TEMPERATURE AT -22°C~-18°C.

STANDARD ABBREVIATIONS

ABC	ABOVE CEILING	E	EXTRACTOR	OBD	OPPOSED BLADE DAMPER	TCC	TEMPERATURE CONTROL
ABV	ABOVE	(E)	EXISTING	OH	OVERHEAD	CONTRACTOR	CONTRACTOR
AC	AIR CONDITION	EA	EACH	OSA	OUTSIDE AIR	TRANSFER GRILLE	TRANSFER GRILLE
AD(P)	ACCESS DOOR (PANEL)	E(A)	EXHAUST (AIR)	PC	PLUMBING CONTRACTOR	TG	THICK
AFF	ABOVE FINISHED FLOOR	EC	ELECTRICAL CONTRACTOR	PD	PRESSURE DROP	TRANS	TRANSITION
AHJ	AUTHORITY HAVING JURISDICTION	EF	EXHAUST FAN	POC	POINT OF CONNECTION	TSP	TOTAL STATIC PRESSURE
AL	ACOUSTICAL LINING	ENGR	ENGINEER	(R)	REMOVE	TV	TURNING VANES
ARCH	ARCHITECTURAL	ER	EXHAUST REGISTER	RA(D/L)	RETURN AIR (DAMPER) (LOUVER)	TY	TYPICAL
ASSY	ASSEMBLY	ESP	EXTERNAL STATIC PRESSURE	REG	RETURN AIR GRILLE	UCD	UNDERCUT DOOR
BAU	-	FC	FLEXIBLE CONNECTION	(REL)	RELOCATE	UL	UNDERWRITERS' LABORATORY
BD	BALANCE DAMPER	FN	FINISHED	REQMS	REQUIREMENTS	V	VOLTS
BDD	BACKDRAFT DAMPER	FLA	FULL LOAD AMPS	RR(G)	RETURN REGISTER (GRILLE)	VI	VIBRATION ISOLATOR
BELOW	BELOW	FLR	FLOOR	S	SPIN-IN EXTRACTOR	VLV	VALVE
BLDG	BUILDING	FUT	FUTURE	SA	SHEET METAL	W	WITH
BOT	BOTTOM	GA	GAGE OR GAUGE	SM	SHEET METAL SCREWS	WC	WATER COLUMN
BTU(H)	BRITISH THERMAL UNIT/HOUR	GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE	WT	WEATHER TIGHT
CCW	COUNTER CLOCKWISE	GI	GALVANIZED IRON	SR	SUPPLY REGISTER		
CFM	CUBIC FEET OF AIR PER MINUTE	GV	GATE VALVE	STRUCT	STRUCTURAL		
CL	CLEAR	MAX	MAXIMUM				
CLG	CEILING	MBH	THOUSAND BTU PER HOUR				
CONN	CONNECT (ION)	MC	MECHANICAL CONTRACTOR				
COORD	COORDINATE	MFR	MANUFACTURER				
CTE	CONNECT TO EXISTING	MIN	MINIMUM				
DB	DRY BULB	(N)	NEW				
DIA	DIAMETER	N/M/C	NOT IN (MECHANICAL) CONTRACT				
DL	DOOR LOUVER						
DN	DOWN						
DWGS	DRAWINGS						
Ø	DIAMETER						

DEMOLITION NOTES

- BEFORE BEGINNING ANY WORK, CONTRACTOR SHALL THOROUGHLY EXAMINE AND VERIFY ALL EXISTING CONDITIONS, POINTS OF CONNECTIONS, SIZES, LOCATIONS, ELEVATIONS ETC, MALFUNCTIONS AND DISCREPANCIES (ITEMS NOT SHOWN ON THE PLANS BUT FOUND, OR ITEMS SHOWN AS IN-PLACE BUT NOT FOUND) DURING EXAMINATION SHALL BE PROMPTLY REPORTED TO THE DCC REPRESENTATIVE.
- FAILURE TO REPORT SUCH DISCREPANCIES SHALL RESULT IN ANY AND ALL ADDITIONAL LABOUR AND MATERIALS REQUIRED TO PROVIDE COMPLETE AND OPERABLE SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION, TO BECOME PART OF THE CONTRACTOR'S WORK JUST AS IF IT WERE INDICATED AND IMPLIED ON THE PLANS.
- COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE OF ALL EXISTING CONDITIONS AFFECTING THE WORK.
- DUE TO THE NUMBER OF MISCELLANEOUS EXISTING ITEMS AND SUPPORTS, NOT ALL DEMOLITION AND REPAIR WORK IS SHOWN OR DESCRIBED ON THE DRAWINGS. DEMOLITION WORK WILL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING ACTIVITIES:
 - REMOVE ALL INDICATED EQUIPMENT, PIPING, PUMPS, VALVES, SENSORS RELATED HANGERS, STRAPS, SUPPORTS, ELECTRICAL CONDUITS AND WIRES.
 - PATCH ALL OPENINGS IN WALLS, CEILINGS OR FLOORS REMAINING AFTER REMOVAL OF EQUIPMENT, PIPING, AND SUPPORTS; SEAL OPENINGS WATER AND AIR TIGHT.
 - REPAIR AND/OR RECONNECT ANY UTILITIES BROKEN OR DISCONNECTED DURING THE COURSE OF DEMOLITION WORK WHICH MAY BE DEEMED NECESSARY TO MAINTAIN SERVICE TO OTHER AREAS OR OPERATIONS IN THE BUILDING AS REQUIRED.
- ALL ITEMS IDENTIFIED AS FOR "DEMO" OR "TO BE REMOVED" AND NOT REUSED FOR THE NEW SYSTEM SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN AN APPROVED MANNER, UNLESS RETAINED AT DCC REPRESENTATIVE'S DISCRETION.
- ALL BUILDING DAMAGES DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR.

GENERAL NOTES

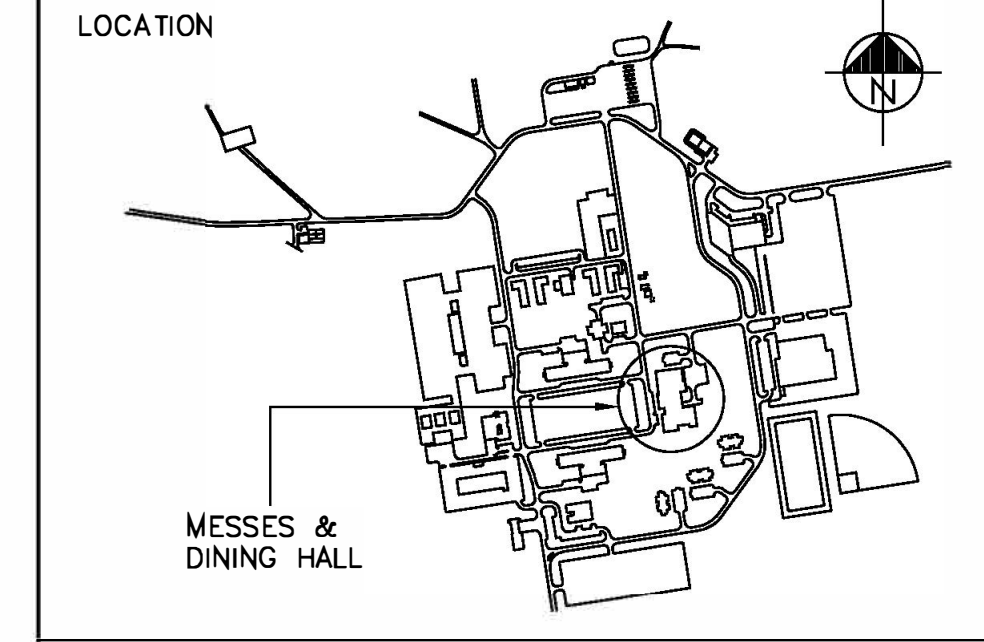
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MECHANICAL AND OTHER DISCIPLINE DRAWINGS AND SPECIFICATIONS.
- THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS ARE TO BE CONSIDERED AS DIAGRAMMATIC ONLY AND DO NOT SHOW ALL THE STRUCTURAL AND CONSTRUCTION DETAILS. ANY INFORMATION INVOLVING MEASUREMENTS OF THE BUILDING SHALL BE TAKEN FROM THE EXISTING ARCHITECTURAL AND STRUCTURAL DRAWINGS AND AT THE BUILDING SITE. DRAWINGS CAN BE REQUESTED FROM OWNER. MAKE WITHOUT ADDITIONAL CHARGE ANY NECESSARY CHANGES OR ADDITIONS TO THE RUNS TO ACCOMMODATE STRUCTURAL CONDITIONS.
- THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE CONSIDERED AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. MISINTERPRETATION OF ANY REQUIREMENTS OF EITHER PLANS OR SPECIFICATIONS SHALL NOT CHANGE THE REQUIREMENTS OR INTENT OF THE SPECIFICATIONS FOR PROPER COMPLETION OF THE WORK TO THE FULL APPROVAL OF THE CONSULTANT AND OWNER.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER SO THAT ANY DETAILS SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, SHALL BE EXECUTED IN THE SAME MANNER AS IF CONTAINED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS.
- ALL WORK SHALL CONFORM TO ALL CURRENT CODES OF THE AUTHORITY HAVING JURISDICTION INCLUDING BUT NOT LIMITED TO THE LATEST NATIONAL BUILDING CODE, NATIONAL FIRE CODE, TECHNICAL STANDARDS AND SAFETY AUTHORITY, AND THE ONTARIO ELECTRICAL SAFETY CODE.
- CONTRACTOR SHALL MAKE ARRANGEMENTS TO SECURE ALL REQUIRED PERMITS, FEES AND INSPECTIONS REQUIRED DURING CONSTRUCTION, INCLUDING ACCEPTANCE TESTS AND INSPECTIONS DURING AND UPON COMPLETION OF WORK.
- THE LOCATIONS AND SIZES SHOWN FOR ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY THEIR EXACT LOCATION, AND SIZE PRIOR TO BEGINNING WORK. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS.
- DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN WORK AND MATERIALS CALLED FOR EXCEED MINIMUM CODE REQUIREMENT.
- CONTRACTOR SHALL PROVIDE SUBMITTALS ON ALL WORK, EQUIPMENT AND ACCESSORIES FOR REVIEW PRIOR TO ORDERING, FABRICATION AND INSTALLATION.
- SHOULD CONTRACTOR PROPOSE AND/OR INSTALL ALTERNATE EQUIPMENT OR SYSTEMS, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SECURE APPROVALS OF ALL REVIEWING AGENCIES, INCLUDING DND, DCC, DND CHIEF FIRE PROTECTION OFFICE (CFPO), AND/OR AUTHORITIES HAVING JURISDICTION (AHJ).
- CONTRACTOR'S WORK IS PERFORMED INJURY FREE. PERSONAL SAFETY RISKS ARE IDENTIFIED, MITIGATED AND CONTROLLED TO AN ACCEPTABLE LEVEL. CONTRACTOR MANAGEMENT, THEIR EMPLOYEES AND SUBCONTRACTORS DEMONSTRATE SHARED RESPONSIBILITY FOR ZERO TOLERANCE TO UNMANAGED RISKS TO THEMSELVES AND OTHERS. CONTRACTOR EMPLOYEES APPLY APPROPRIATE PREVENTATIVE MEASURES FOR SAFE WORK EXECUTION. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND FURNISH, INSTALL, AND MAINTAIN TEMPORARY SIGNS, BARRICADES, AND OTHER FACILITIES TO ADEQUATELY SAFEGUARD THE GENERAL PUBLIC AND OCCUPANTS BY THEIR OPERATION DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING SYSTEMS FACILITY UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL THAT ARE DAMAGED BY THEIR OPERATIONS.
- THE BUILDINGS AND ADJACENT AREAS WILL BE OCCUPIED OR IN USE DURING THIS PROJECT. THE CONTRACTOR SHALL CONDUCT WORK TO ALLOW NORMAL OPERATION OF FACILITY AND GROUNDS

CONSTRUCTION NOTES

- CONTRACTOR SHALL COORDINATE PRIOR TO INSTALLATION ALL WORK WITH OTHER TRADES.
- ANY INTERFERENCE THAT CAN NOT BE RELOCATED SHALL BE AVOIDED. THE CONTRACTOR SHALL SUBMIT A PLAN FOR THIS WORK TO THE DCC REPRESENTATIVE PRIOR TO COMMENCING.
- ALL CONTROL WIRING FOR HVAC EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. INCLUDE ALL COSTS ASSOCIATED WITH THE CONTROLS WORK.
- CONTROL CONTRACTOR TO PROVIDE SHOP DRAWINGS AND ALL ITEMS, WIRING, REQUIRED FOR PROPER OPERATION AND COMPLIANCE WITH CODES. VERIFY EXACT REQUIREMENTS WITH EQUIPMENT MANUFACTURERS AND ELECTRICAL CONTRACTOR AND EXISTING SYSTEM. THE CONTROL EQUIPMENT AND CONNECTING WIRING SHALL BE INSTALLED BY TRAINED ELECTRICIANS IN THE DIRECT EMPLOY OF THE CONTROLS MANUFACTURER.
- EXISTING VALVES ARE TO BE USED FOR ISOLATION. IF FOUND DURING CONSTRUCTION THAT EXISTING VALVE IS NON-FUNCTIONAL CONTRACTOR TO NOTIFY DCC REPRESENTATIVE IMMEDIATELY WITH PROPOSED ACTION PLAN, AND AWAIT DCC FEEDBACK PRIOR TO STARTING WORK AGAIN ON THIS ITEM.

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1	2022/04/12	ISSUED FOR 60% REVIEW	D.S.

LOCATION | EMPLACEMENT
4TH CANADIAN DIVISION TRAINING CENTRE (4 CDT), MEAFORD, ONTARIO

PROJECT | PROJET
M-206 REFRIGERATION LIFECYCLE

TRADE | MÉTIER
MECHANICAL

DATE
2021/01/26

SUBJECT | SUJET
EXISTING HYDRONIC SYSTEM SCHEMATIC - DEMOLITION

PRODUCTION	REVIEWED REVU
DESIGNED ÉTUDIÉ	XX XX
F.P.	DES O/A GEN T CONC
DRAWN DESSINÉ	PROJ MGR GEST PROJ
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CHECKED VÉRIFIÉ	D.S.
COORDINATION	FIRE INCENDIE
D.S.	

WBS NO. | NO. O/P
N203111.03.02

PF NO. | NO. DP
MF500039

DWG. NO. | NO. DESSIN
L-M95-49016-402

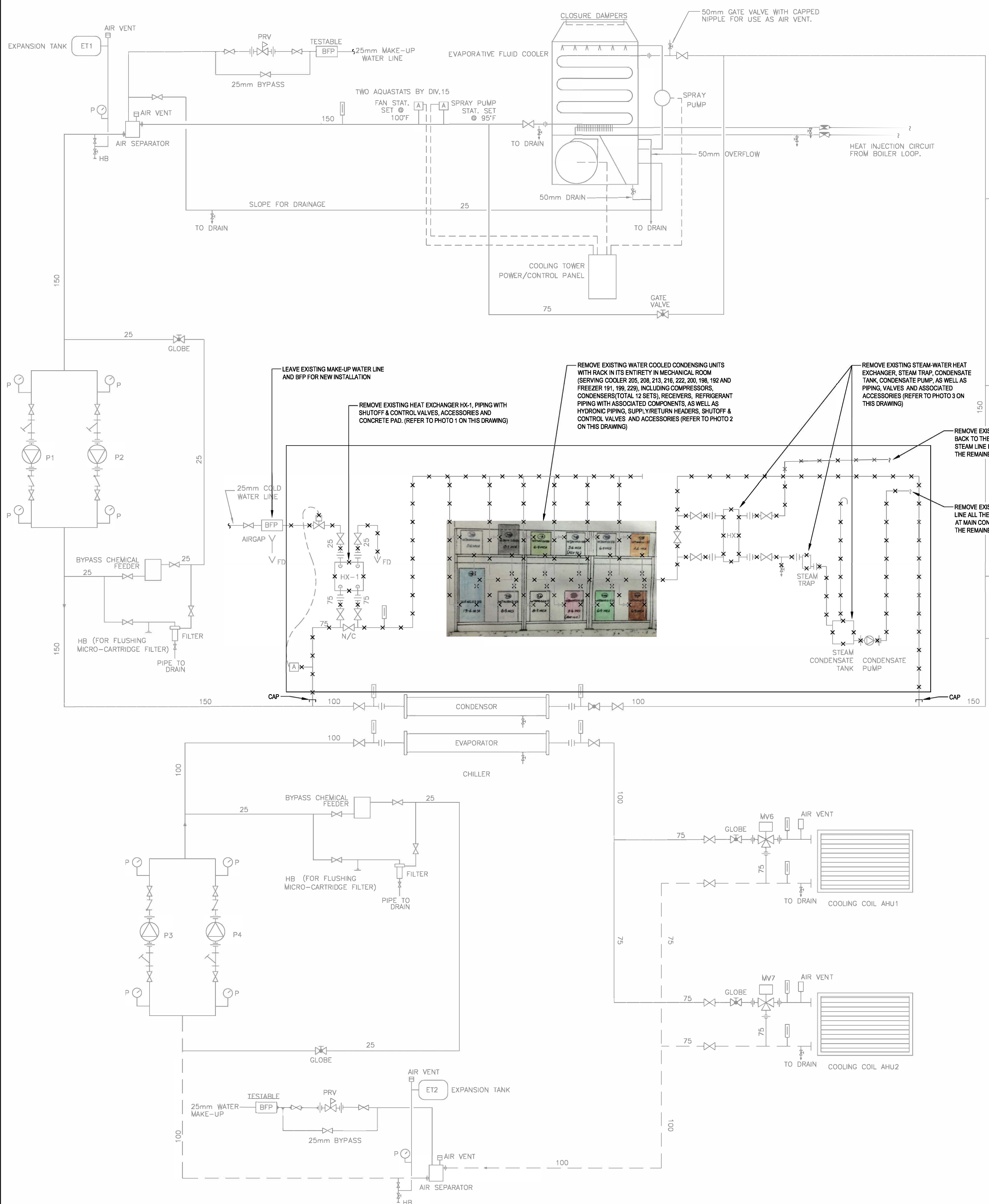


PHOTO 2: EXISTING COMPRESSOR/CONDENSING UNITS ON RACK
(REFER TO DRAWING 404 FOR SYSTEM LOCATION)



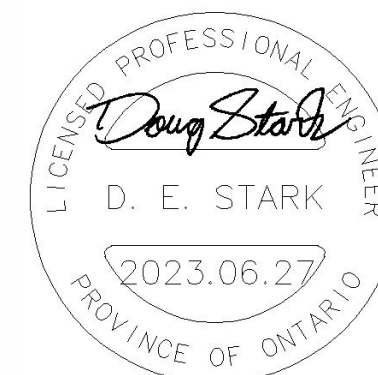
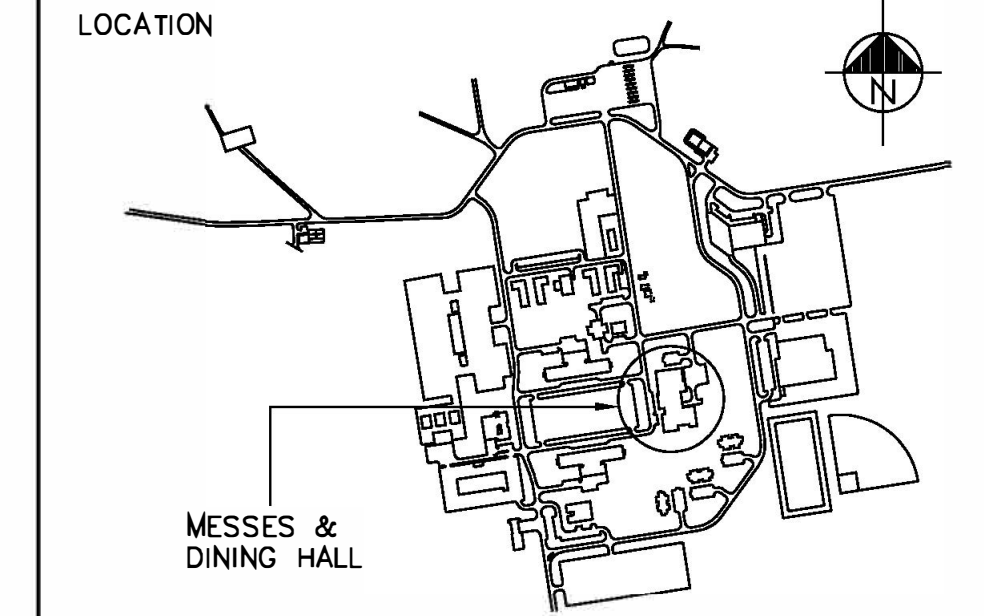
PHOTO 1: EXISTING HX-1 ON CONCRETE PAD
(REFER TO DRAWING 404 FOR SYSTEM LOCATION)



PHOTO 3: EXISTING STEAM-WATER REHEAT SYSTEM FOR CONDENSING WATER
(REFER TO DRAWING 404 FOR SYSTEM LOCATION)

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LOCATION | EMBLEMMENT
4TH CANADIAN DIVISION TRAINING CENTRE (4 CDTIC), MEAFORD, ONTARIO

PROJECT | PROJET
M-206 REFRIGERATION LIFECYCLE

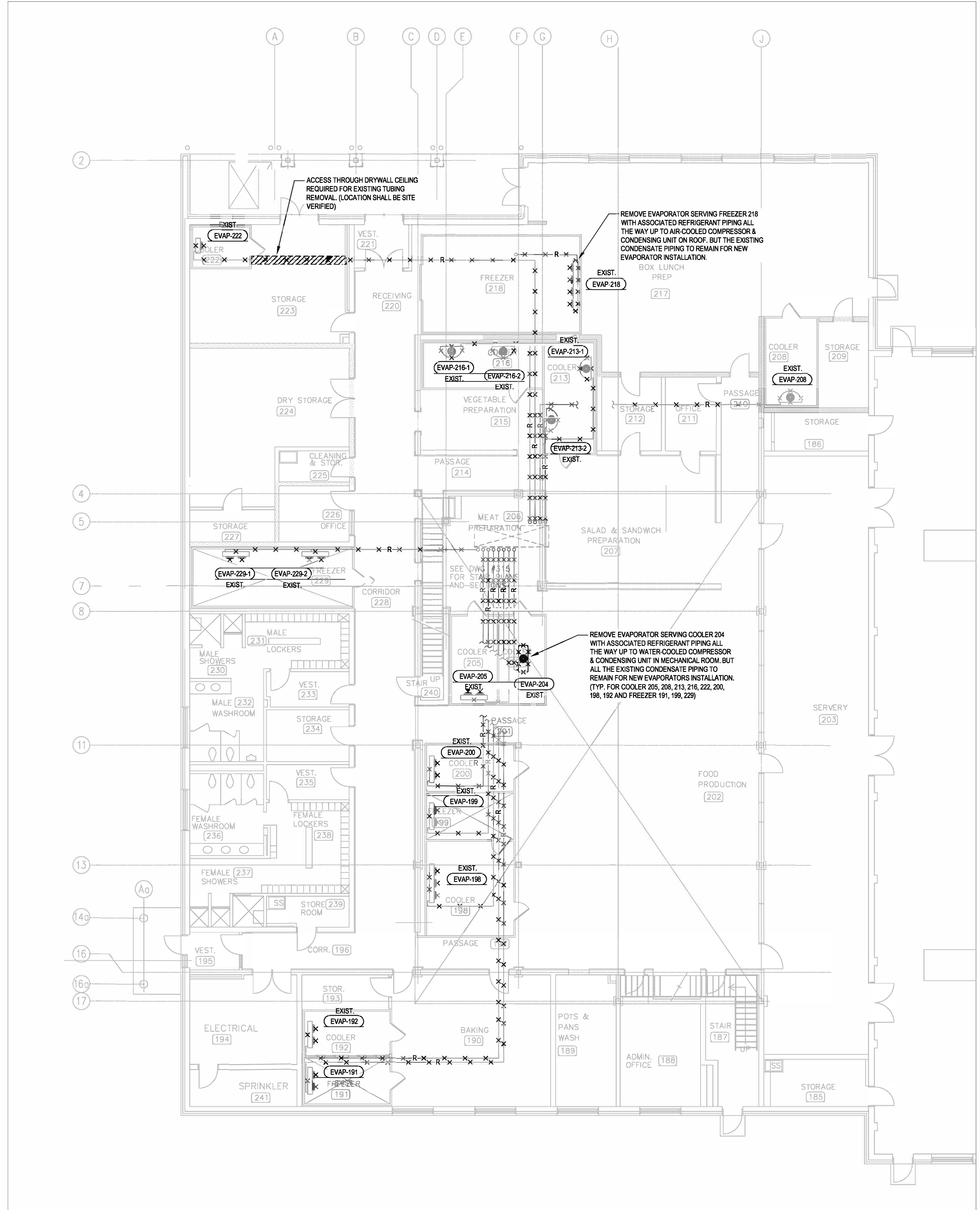
TRADE | MÉTIER
MECHANICAL DATE 2021/01/26

SUBJECT | SUJET
EXISTING KITCHEN REFRIGERATION SYSTEMS LAYOUT - DEMOLITION

PRODUCTION	REVIEWED REVU
DESIGNED ÉTUDIÉ	XX XX
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DRAWN DESSINÉ	PROJ MGR GEST PROJ
F.P.	DES MGR GEST CONC
CHECKED VÉRIFIÉ	DES MGR GEST CONC
D.S.	FIRE INCENDIE
COORDINATION	D.S.

WBS NO. | NO. O.T.P. N203111.03.02 PF NO. | NO. DP MF500039

DWG. NO. | NO. DESSIN L-M95-49016- 403



1 EXISTING KITCHEN REFRIGERANT SYSTEMS LAYOUT - DEMOLITION
403 SCALE: 1:100

2023/Jun/26, 4:37pm [peng Layout1 V:\016153ad\ave116150010640_Design\42_Drawing\42_Current\Mech\403 - kitchen floor plan - demo.dwg

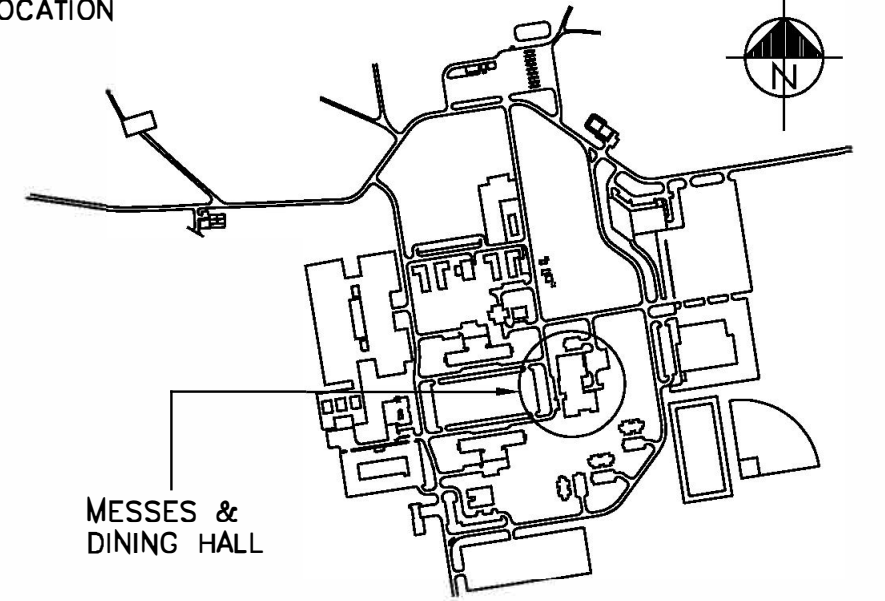
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LOCATION



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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
4TH CANADIAN DIVISION TRAINING CENTRE (4 CDTC), MEAFORD, ONTARIO

PROJECT | PROJET

M-206 REFRIGERATION LIFECYCLE

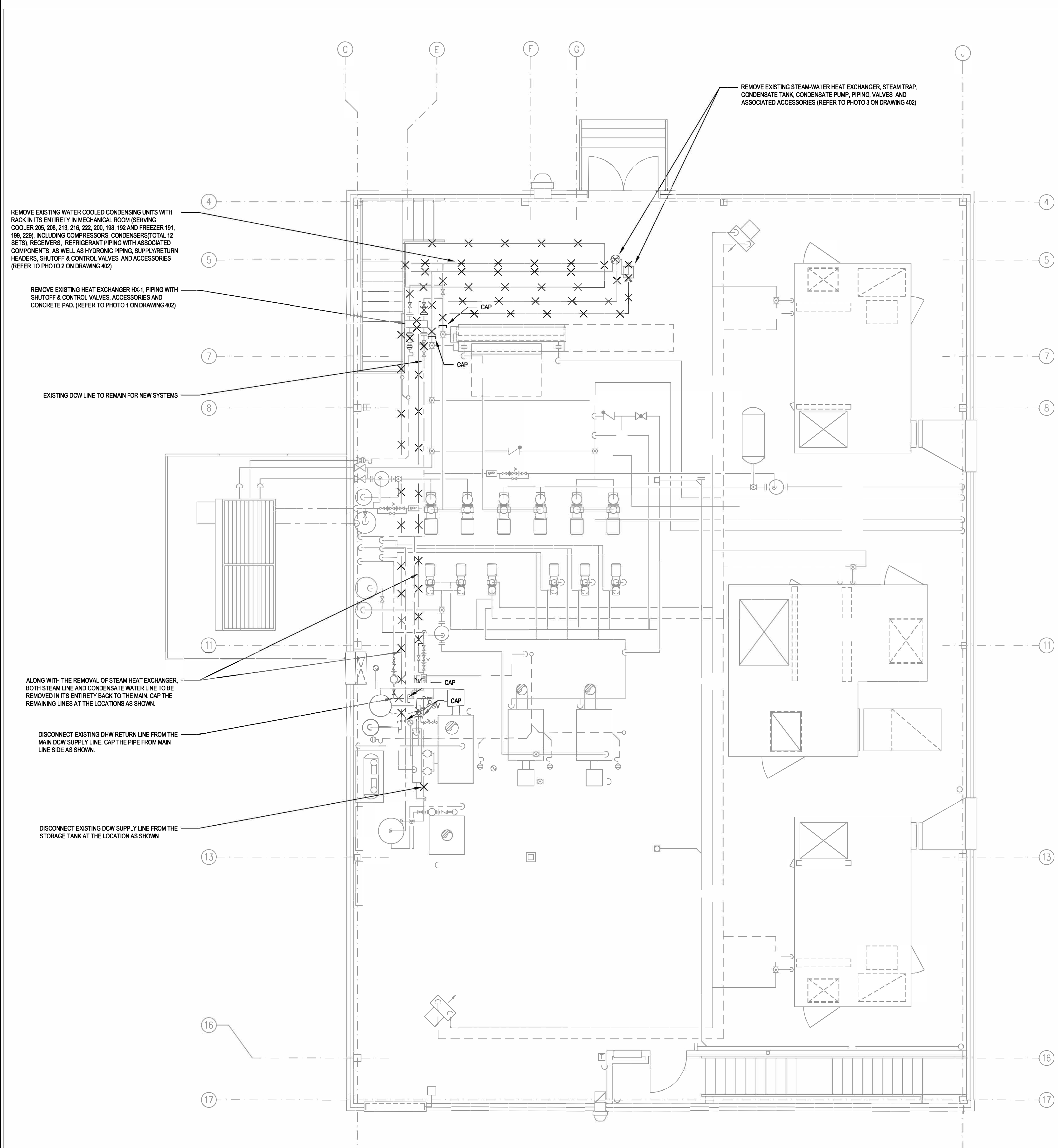
TRADE | MÉTIER
MECHANICAL DATE 2021/01/26

SUBJECT | SUJET
EXISTING PENTHOUSE MECHANICAL SYSTEMS LAYOUT - DEMOLITION

PRODUCTION	REVIEWED REVU	DES O AGENT CONC
DESIGNED ETUDIÉ	xx xx	
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DRAWN DESSINÉ		PROJ MGR GEST PROJ
F.P.		
CHECKED VÉRIFIÉ		DES MGR GEST CONC
D.S.		
COORDINATION		FIRE INCENDIE
D.S.		

WBS NO. | NO. OIP N203111.03.02 PF NO. | NO. DP MF500039

DWG. NO. | NO. DESSIN L-M95-4901/6-404



1 EXISTING PENTHOUSE MECHANICAL SYSTEMS LAYOUT - DEMOLITION
SCALE: 1:50

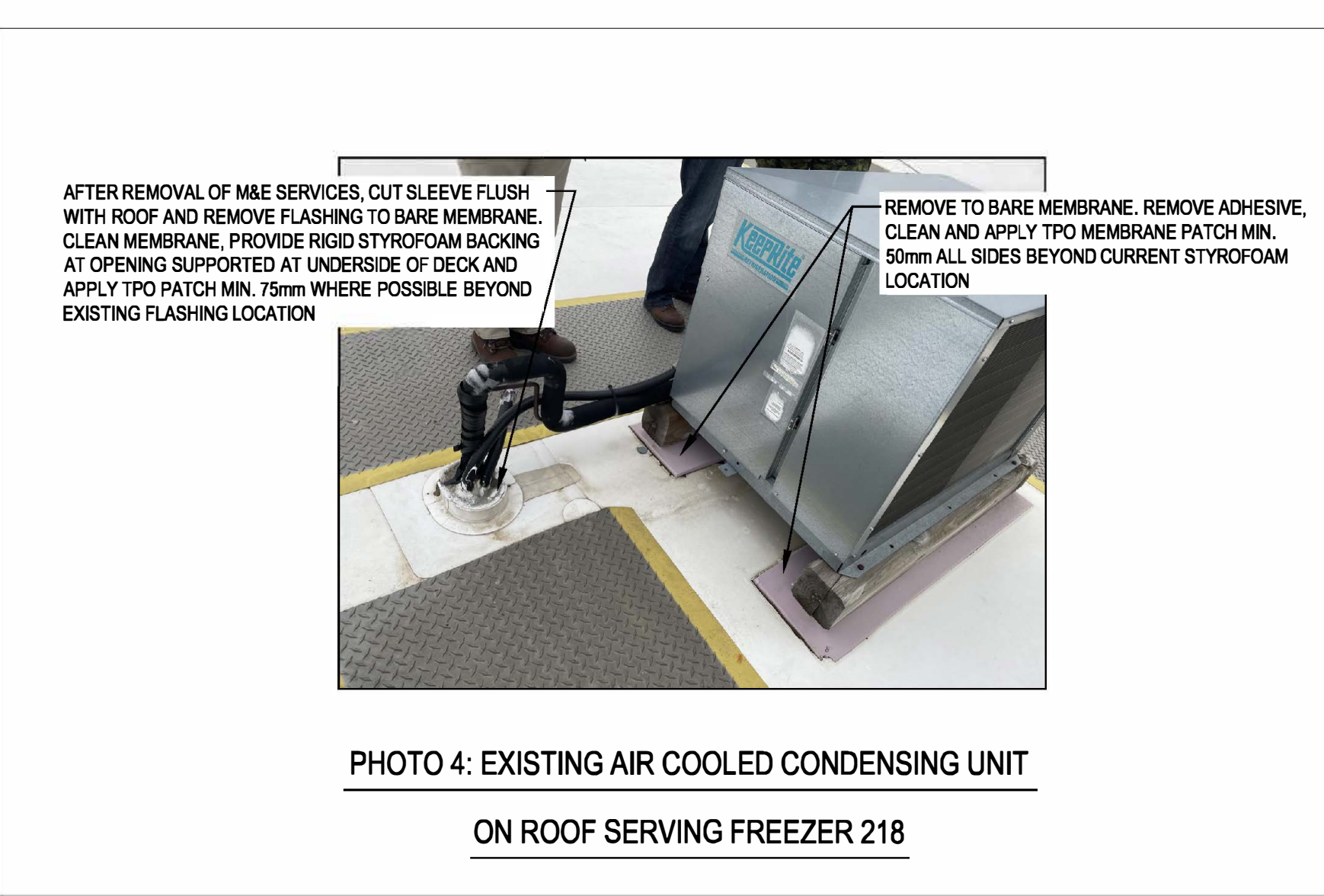
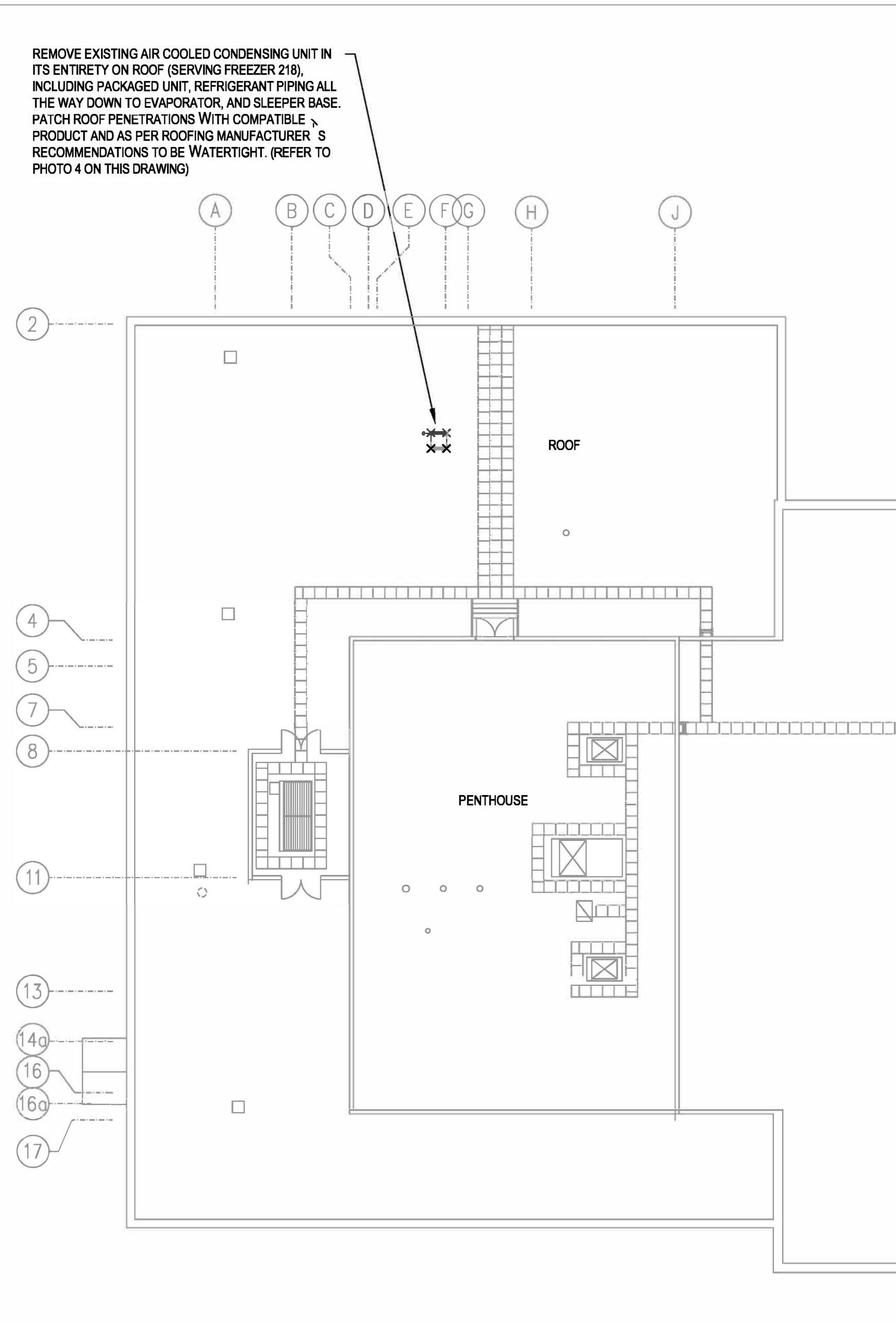


PHOTO 4: EXISTING AIR COOLED CONDENSING UNIT ON ROOF SERVING FREEZER 218

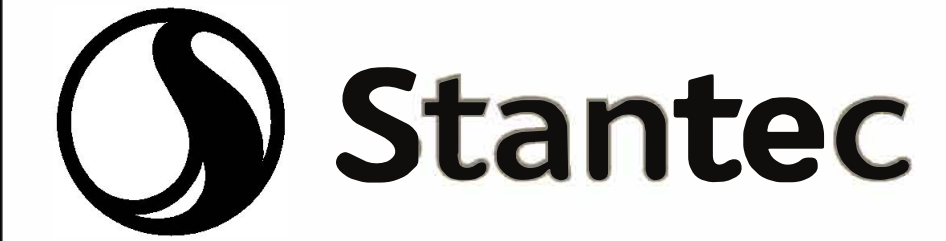


2 EXISTING ROOF LAYOUT - DEMOLITION
SCALE: 1:200

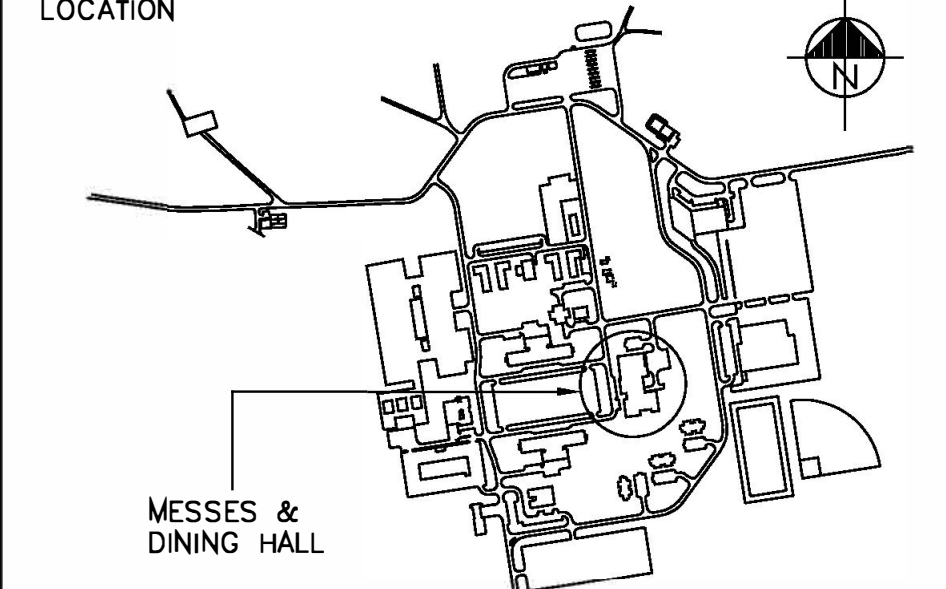
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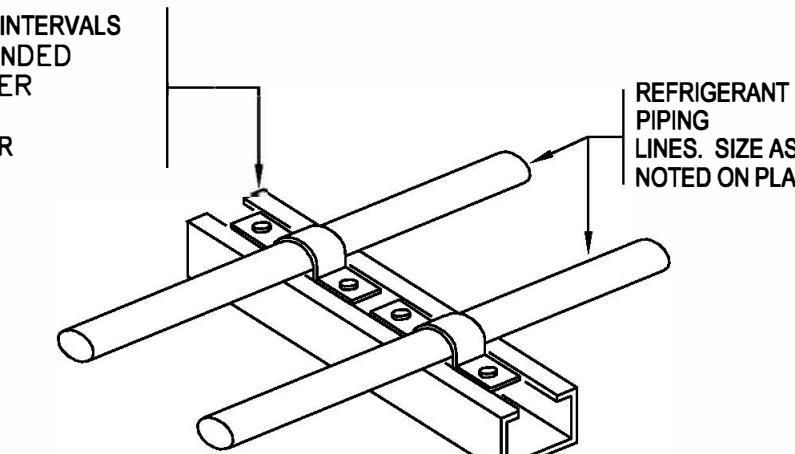
PRIME CONSULTANT



LOCATION

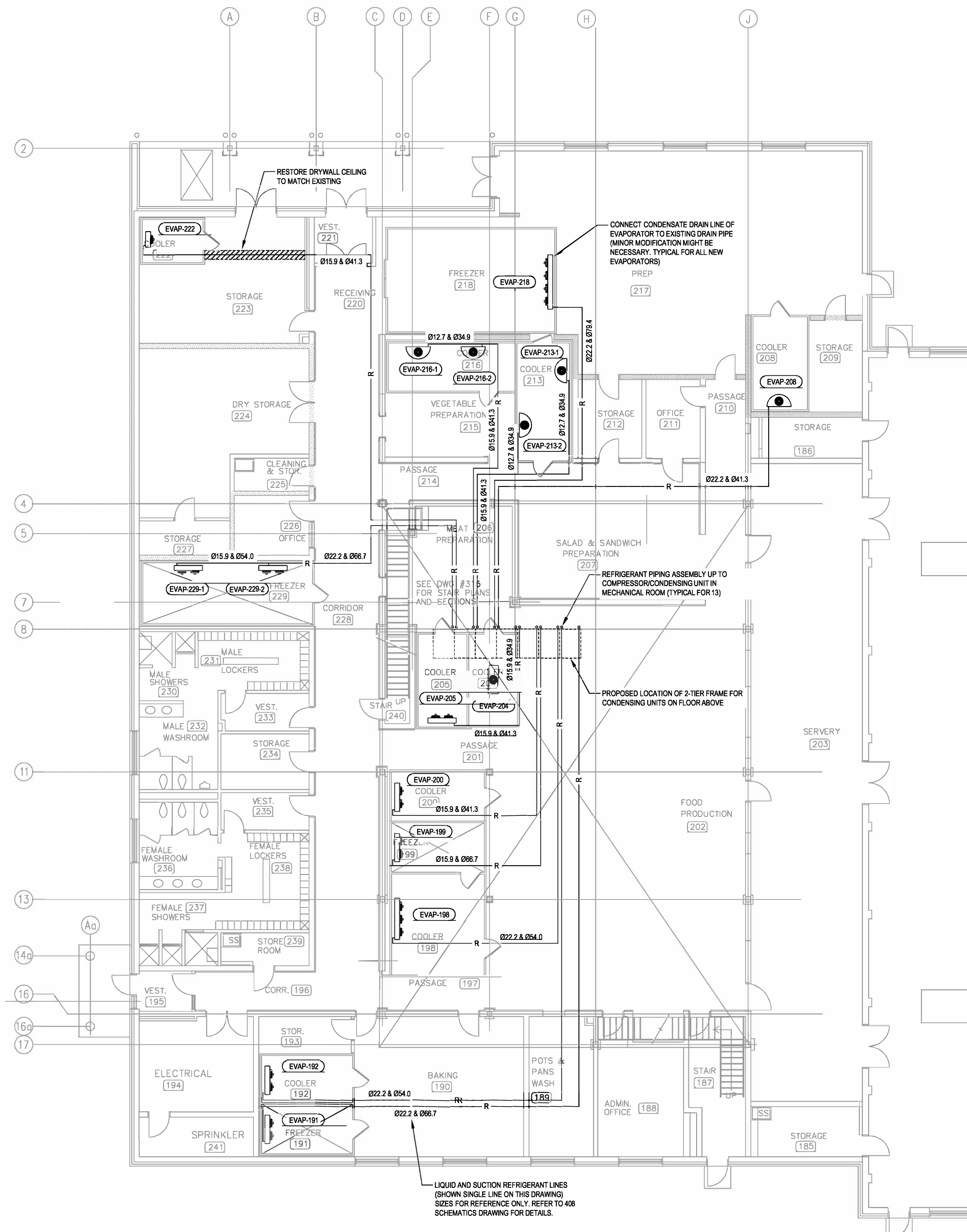


UNISTRUT CHANNEL FOR PIPING @ 1.0m INTERVALS
ALONG ENTIRE LENGTH OF PIPE SUSPENDED FROM 9.5 THREADED ROD - FENDER WASHERS AND LOCK NUTS.
WALL AND/OR CEILING MOUNTING SIMILAR



NOTE: EXISTING SUPPORTS MAY BE RE-USED WHERE SUITABLE.

2 TYPICAL REFRIGERANT TUBE SUPPORT
SCALE: N.T.S.



DRAWING NOTES:

1. THE REFRIGERANT LINE SIZES SHOWN ON THIS DRAWING ARE FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE FINAL REQUIRED SIZES BASED ON MANUFACTURER'S RECOMMENDATIONS & SIZING CHART AND ACTUAL ROUTES OF REFRIGERANT LINES.
2. REDUCER/INCREASER FITTINGS WILL BE NEEDED AT EQUIPMENT CONNECTIONS WHEN THE REQUIRED REFRIGERANT LINE SIZE DIFFERS FROM THE EQUIPMENT CONNECTION SIZE.

1 KITCHEN NEW REFRIGERATION SYSTEMS LAYOUT
SCALE: 1:100

NO.	DATE	REVISION	APPR.
7	2023/06/27	ISSUED FOR TENDER	D.S.
6	2023/04/24	ISSUED FOR TENDER / 100% REVIEW	D.S.
5	2023/02/28	ISSUED FOR 99% REVIEW	D.S.
4	2022/12/13	RE-ISSUED FOR 90% REVIEW	D.S.
3	2022/07/21	ISSUED FOR 90% REVIEW	D.S.
2	2022/05/19	RE-ISSUED FOR 60% REVIEW	D.S.
1	2022/04/12	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
4TH CANADIAN DIVISION TRAINING CENTRE (4 CDT), MEAFORD, ONTARIO

PROJECT | PROJET
M-206 REFRIGERATION LIFECYCLE

TRADE | MÉTIER
MECHANICAL

DATE
2021/01/26

SUBJECT | SUJET
KITCHEN NEW REFRIGERATION SYSTEMS LAYOUT

PRODUCTION	DESIGNED ÉTUDIÉ	REVIEWED REVU
F.P.	XX XX	DES O AGENT CONC
DRAWN DESSINÉ		PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ		DES MGR GEST CONC
COORDINATION		FIRE INCENDIE

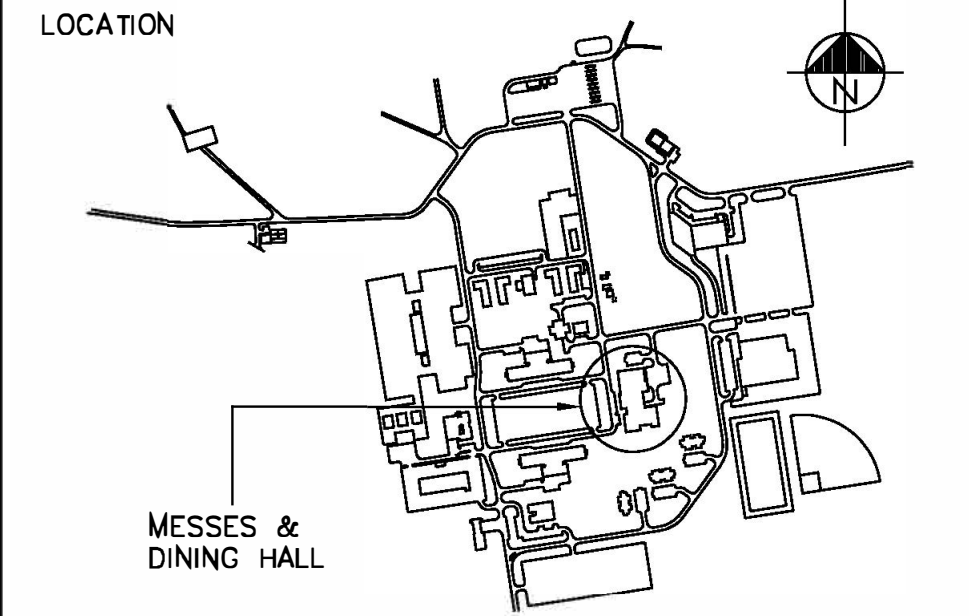
WBS NO. | NO. OTP
N203111.03.02

PF NO. | NO. DP
MF500039

DWG. NO. | NO. DESSIN
L-M95-49016- 405

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6	2023/04/24	ISSUED FOR TENDER / 100% REVIEW	D.S.
5	2023/02/28	ISSUED FOR 99% REVIEW	D.S.
4	2022/12/13	RE-ISSUED FOR 90% REVIEW	D.S.
3	2022/07/21	ISSUED FOR 90% REVIEW	D.S.
2	2022/05/19	RE-ISSUED FOR 60% REVIEW	D.S.
1	2022/04/12	ISSUED FOR 60% REVIEW	D.S.

LOCATION | EMPLACEMENT
4TH CANADIAN DIVISION TRAINING CENTRE (4 CDTC), MEAFORD, ONTARIO

PROJECT | PROJET
M-206 REFRIGERATION LIFECYCLE

TRADE | MÉTIER
MECHANICAL

DATE
2021/01/26

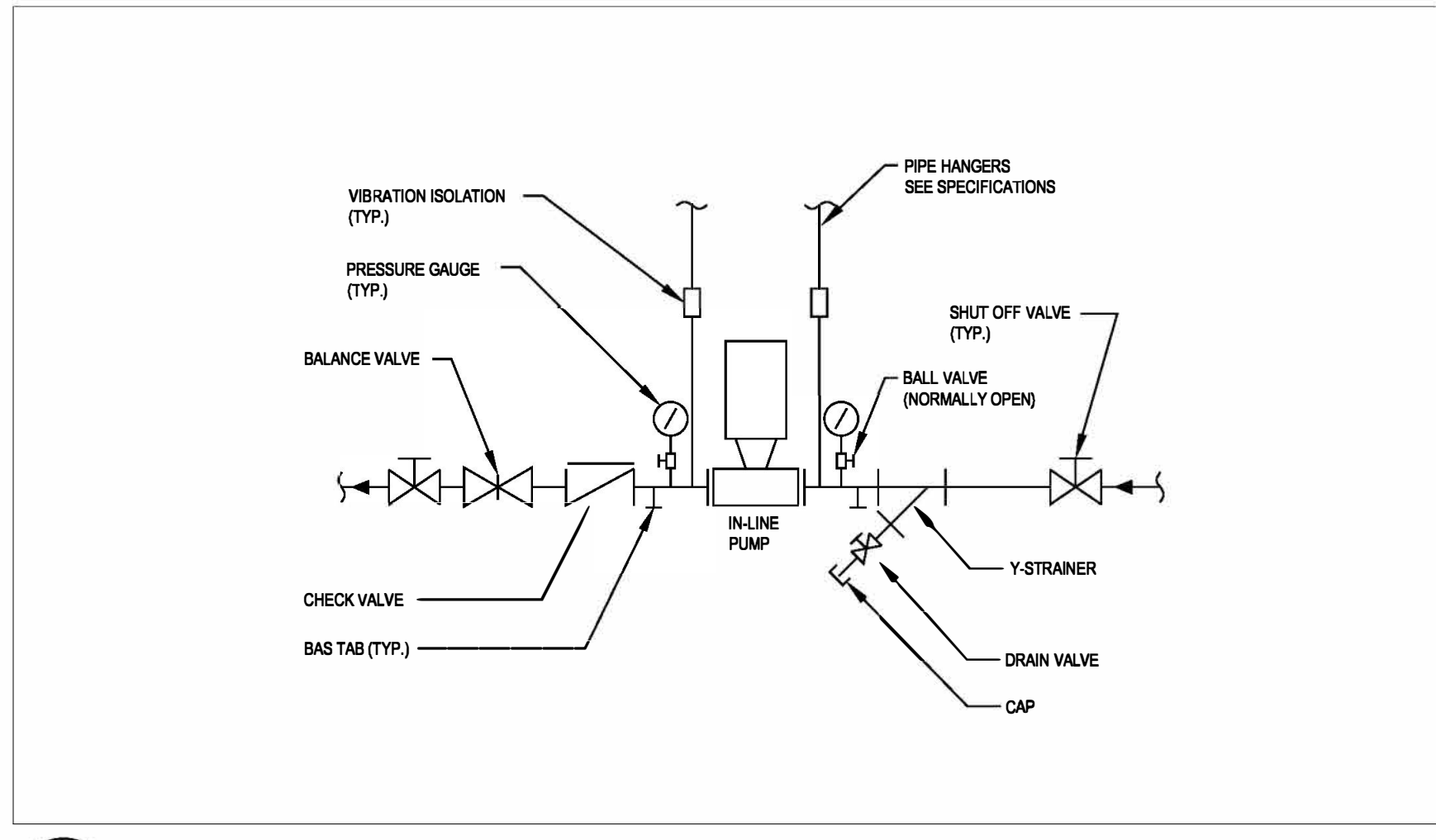
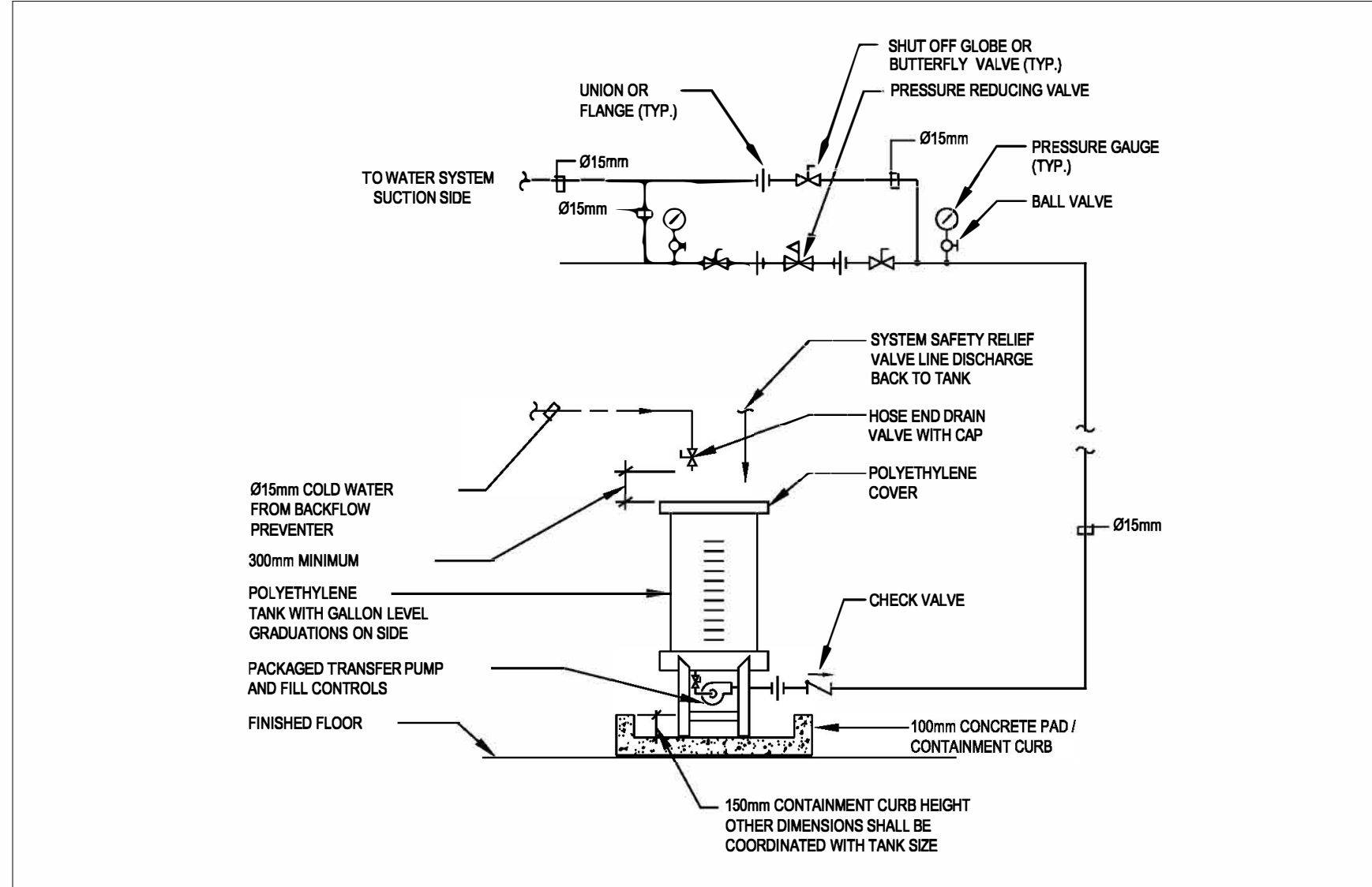
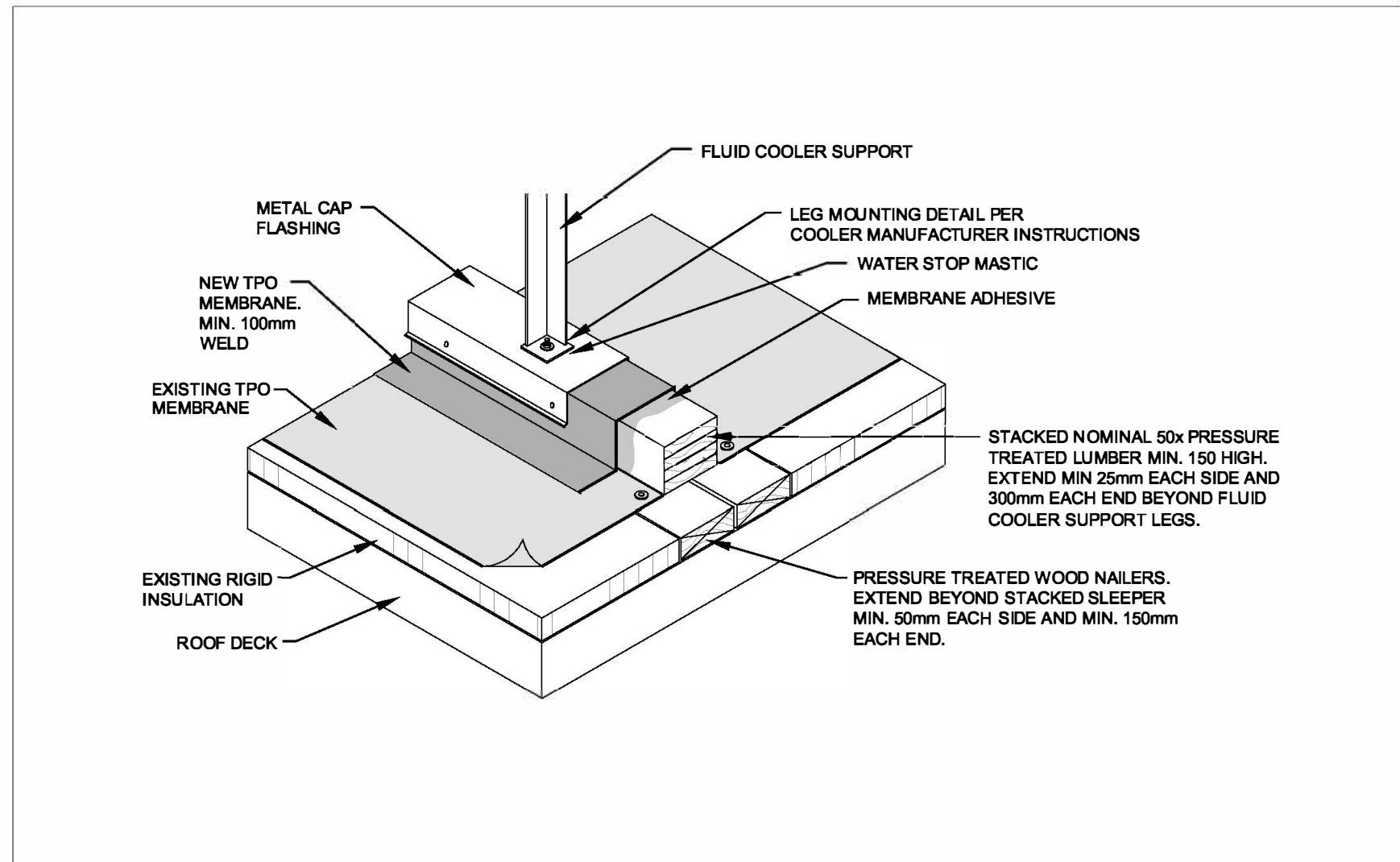
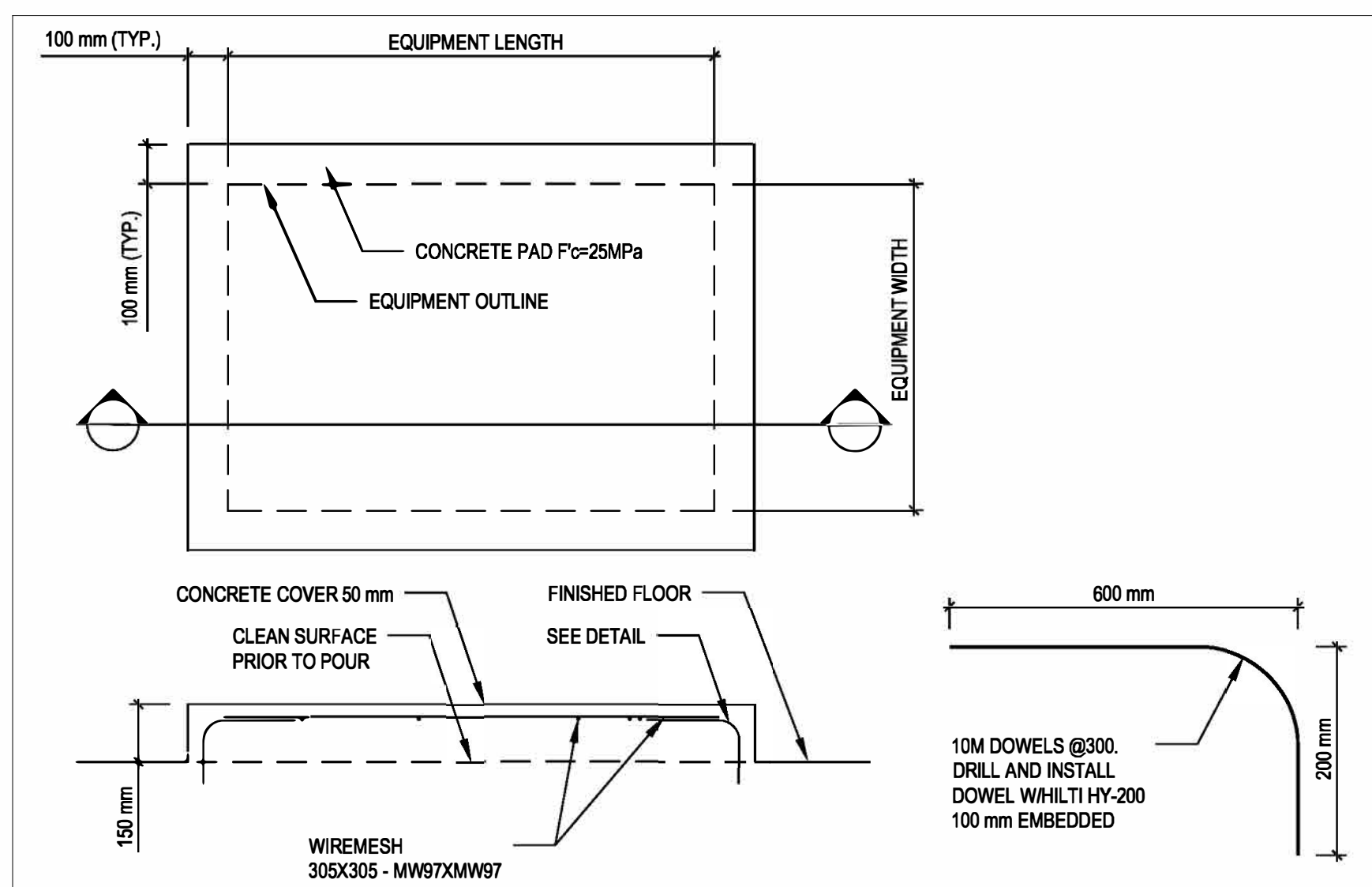
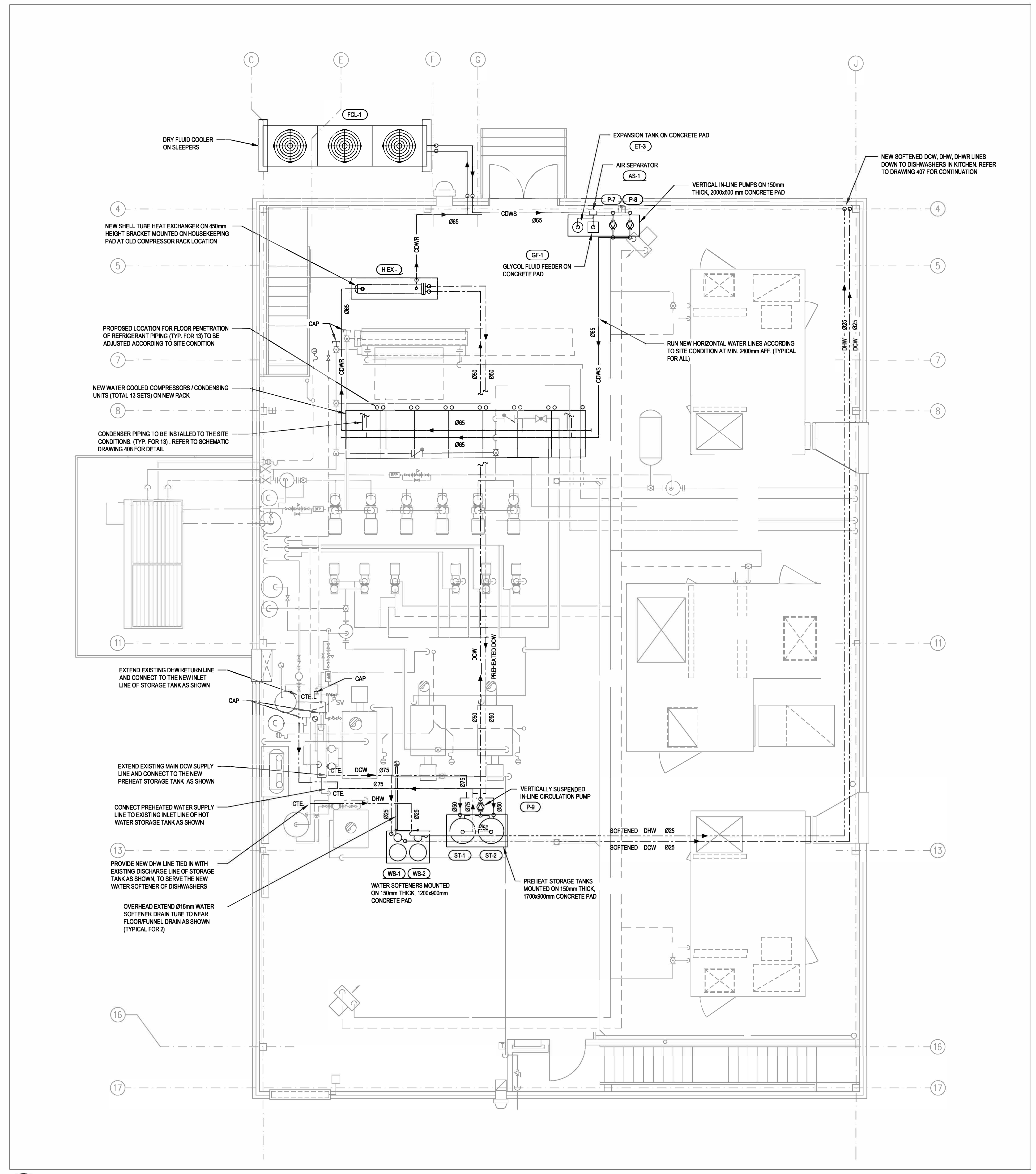
SUBJECT | SUJET
PENTHOUSE NEW MECHANICAL SYSTEMS LAYOUT

PRODUCTION	DESIGNED ÉTUDE	REVIEWED REVU
DESIGNED ÉTUDE	XX XX	DES O AGENT CONC
DRAWN DESSINÉ		PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ		DES MGR GEST CONC
COORDINATION		FIRE INCENDIE

WBS NO. | NO. OTP
N203111.03.02

PF NO. | NO. DP
MF500039

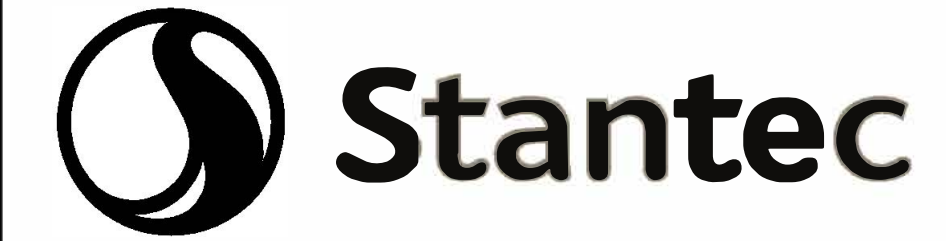
DWG. NO. | NO. DESSIN
L-M95-49016-406



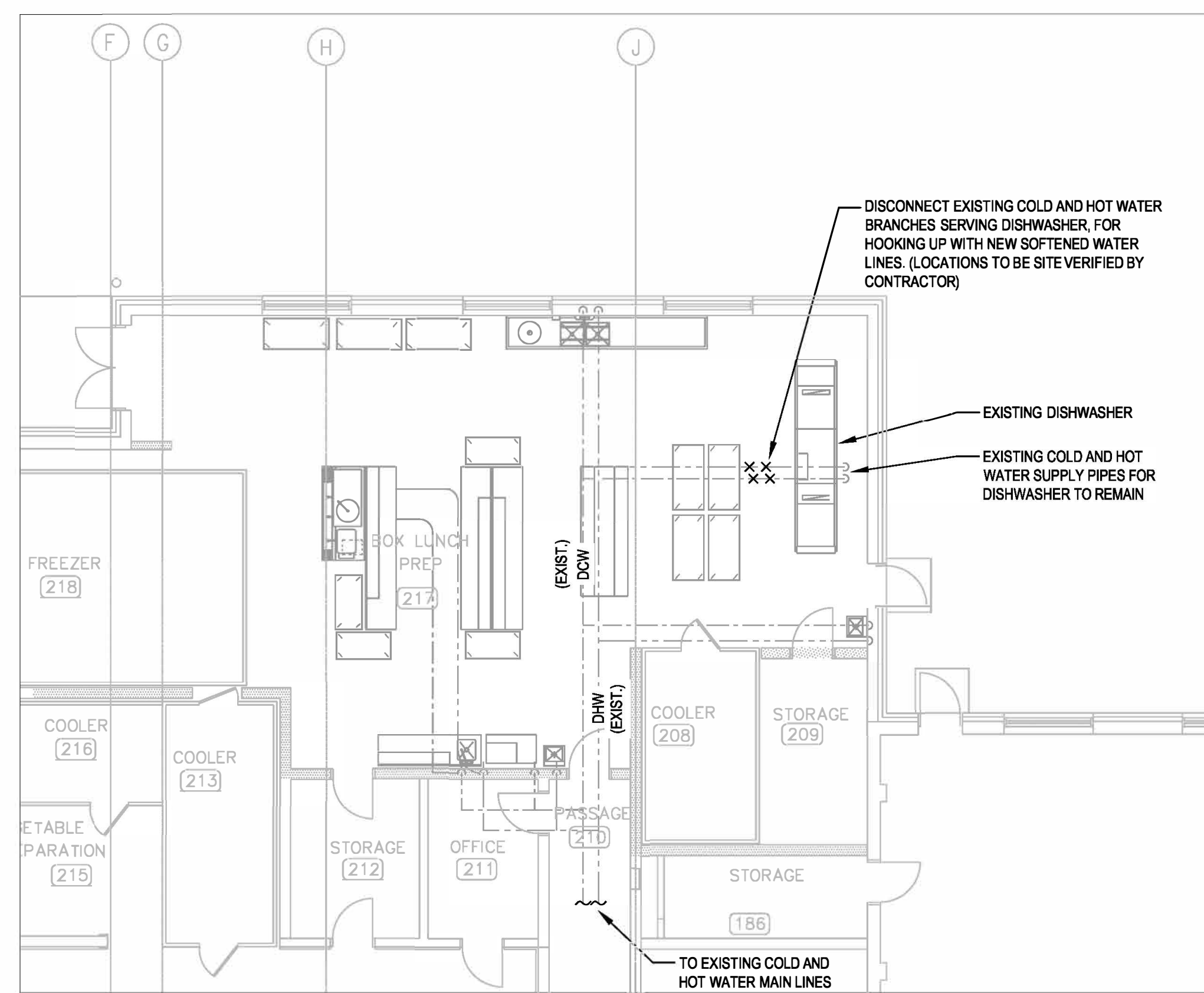
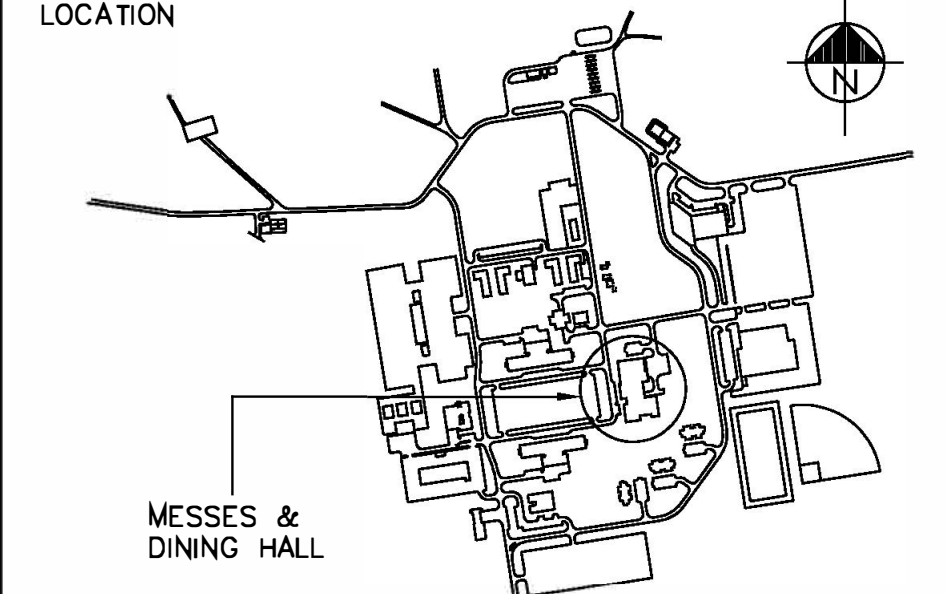
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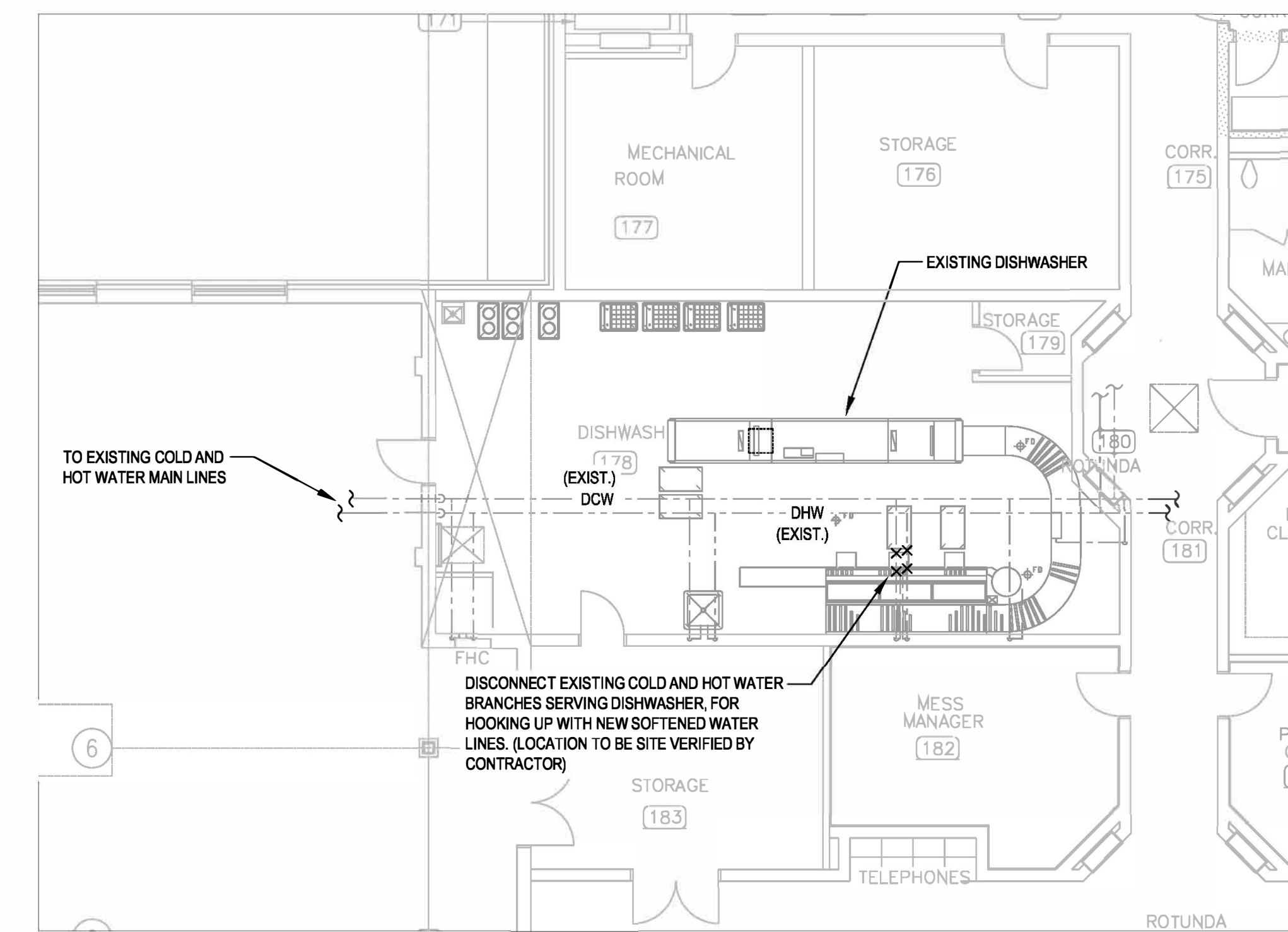
PRIME CONSULTANT



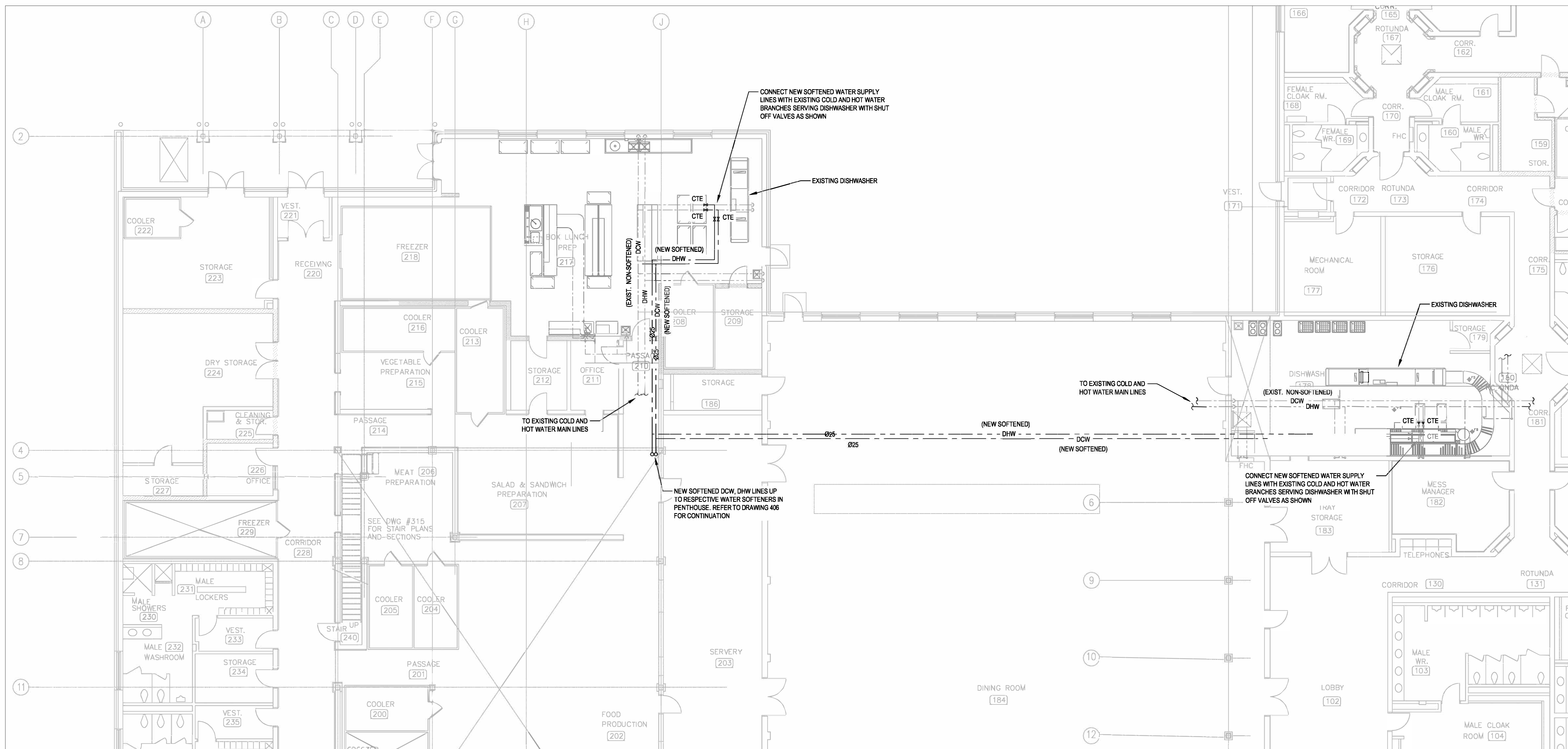
LOCATION



1 EXISTING PLUMBING LAYOUT IN ROOM 217 - DEMOLITION
SCALE: 1:100



2 EXISTING PLUMBING LAYOUT IN ROOM 178 - DEMOLITION
SCALE: 1:100



3 NEW SOFTENED WATER PIPING LAYOUT
SCALE: 1:100

NO.	DATE	REVISION	APPR.
7	2023/08/27	ISSUED FOR TENDER	D.S.
6	2023/04/24	ISSUED FOR TENDER / 100% REVIEW	D.S.
5	2023/02/28	ISSUED FOR 99% REVIEW	D.S.
4	2022/12/13	RE-ISSUED FOR 90% REVIEW	D.S.
3	2022/07/21	ISSUED FOR 90% REVIEW	D.S.
2	2022/05/19	RE-ISSUED FOR 60% REVIEW	D.S.
1	2022/04/12	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
4TH CANADIAN DIVISION TRAINING CENTRE (4 CDTC), MEAFORD, ONTARIO

PROJECT | PROJET
M-206 REFRIGERATION LIFECYCLE

TRADE | MÉTIER
MECHANICAL DATE 2021/01/26

SUBJECT | SUJET
EXISTING PLUMBING DEMOLITION AND NEW SOFTENED WATER PIPING LAYOUT FOR DISHWASHERS

PRODUCTION	REVIEWED REVU	DES O AGENT CONC
DESIGNED ETUDIÉ	xx xx	
DRAWN DESSINÉ		PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ		DES MGR GEST CONC
COORDINATION		FIRE INCENDIE

WBS NO. | NO. O.T.P. N203111.03.02 PF NO. | NO. DP MF500039

DWG. NO. | NO. DESSIN L-M95-49016-407

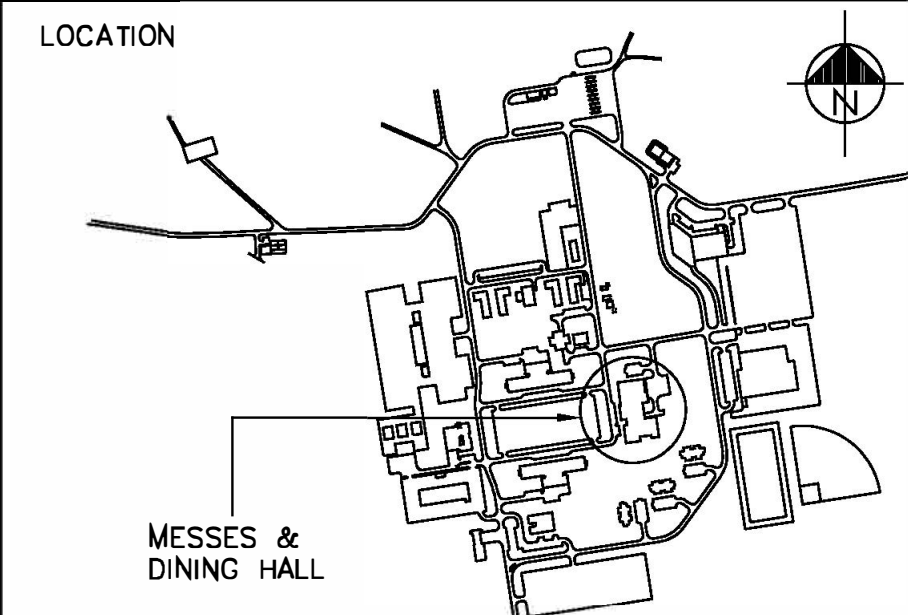
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PRIME CONSULTANT



LOCATION



7	2023/08/27	ISSUED FOR TENDER	D.S.
6	2023/04/24	ISSUED FOR TENDER / 100% REVIEW	D.S.
5	2023/02/28	ISSUED FOR 99% REVIEW	D.S.
4	2022/12/13	RE-ISSUED FOR 90% REVIEW	D.S.
3	2022/07/21	ISSUED FOR 90% REVIEW	D.S.
2	2022/05/19	RE-ISSUED FOR 60% REVIEW	D.S.
1	2022/04/12	ISSUED FOR 60% REVIEW	D.S.
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT

4TH CANADIAN DIVISION TRAINING CENTRE (4 CDT), MEAFORD, ONTARIO

PROJECT | PROJET

M-206 REFRIGERATION LIFECYCLE

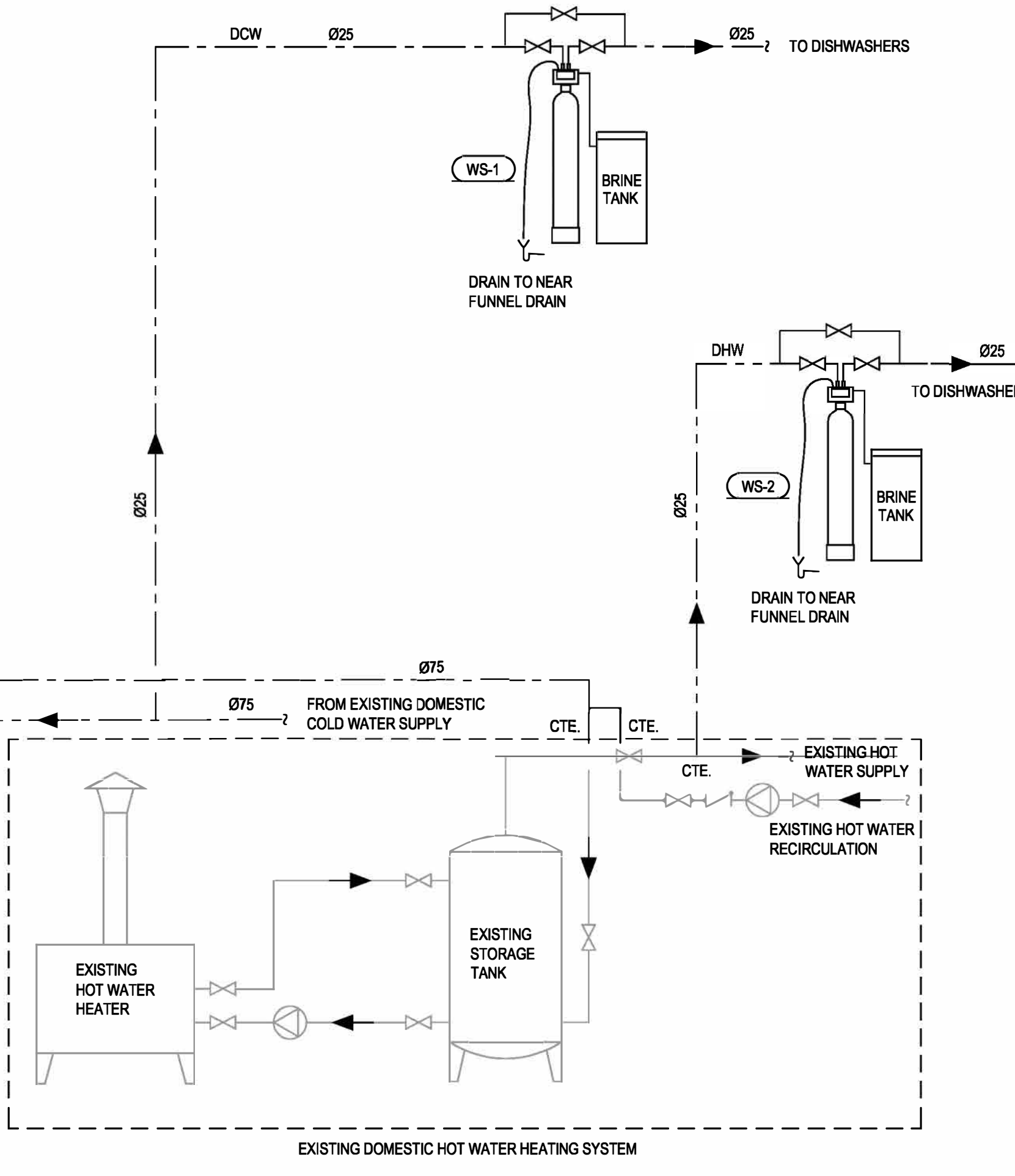
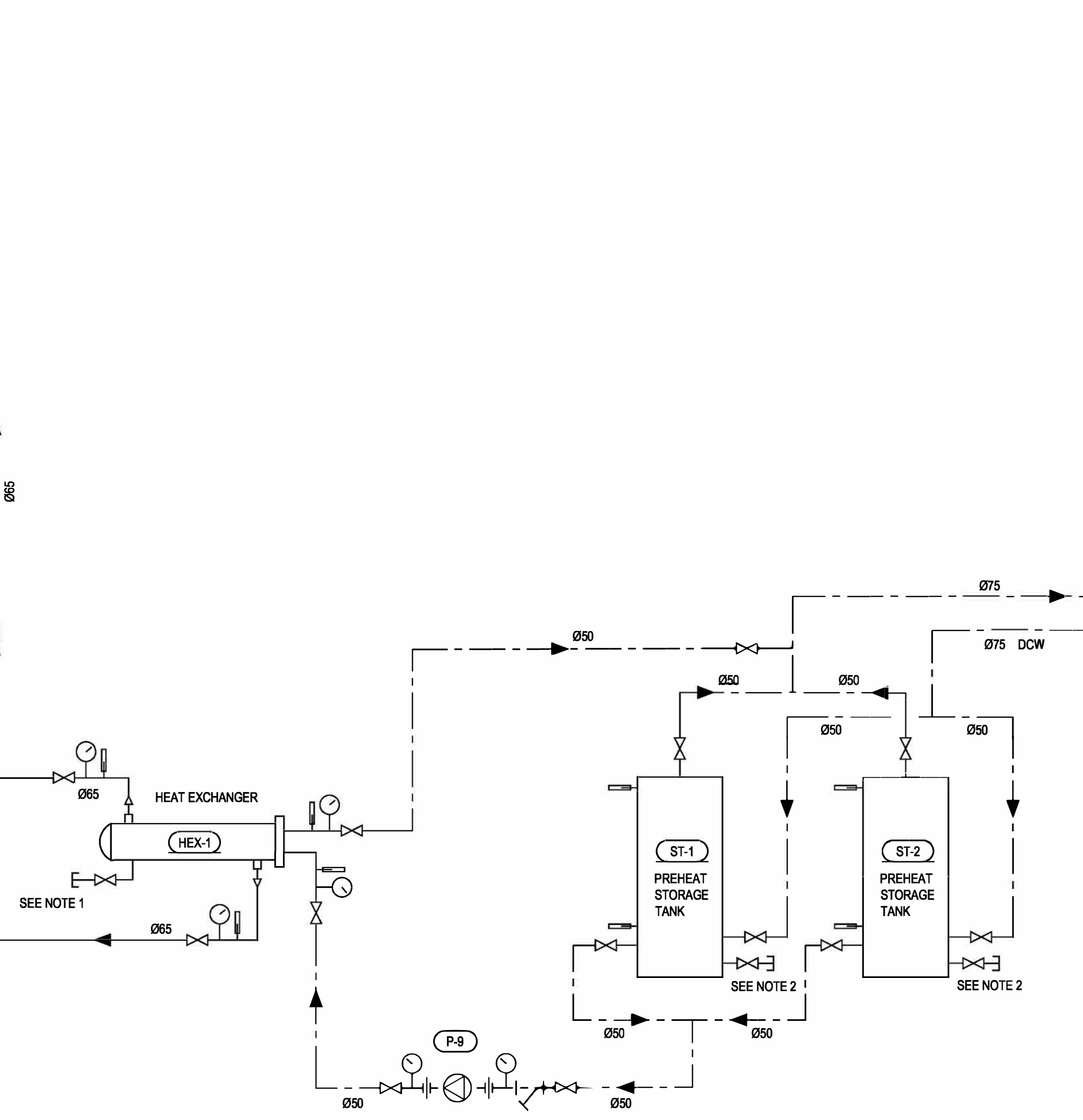
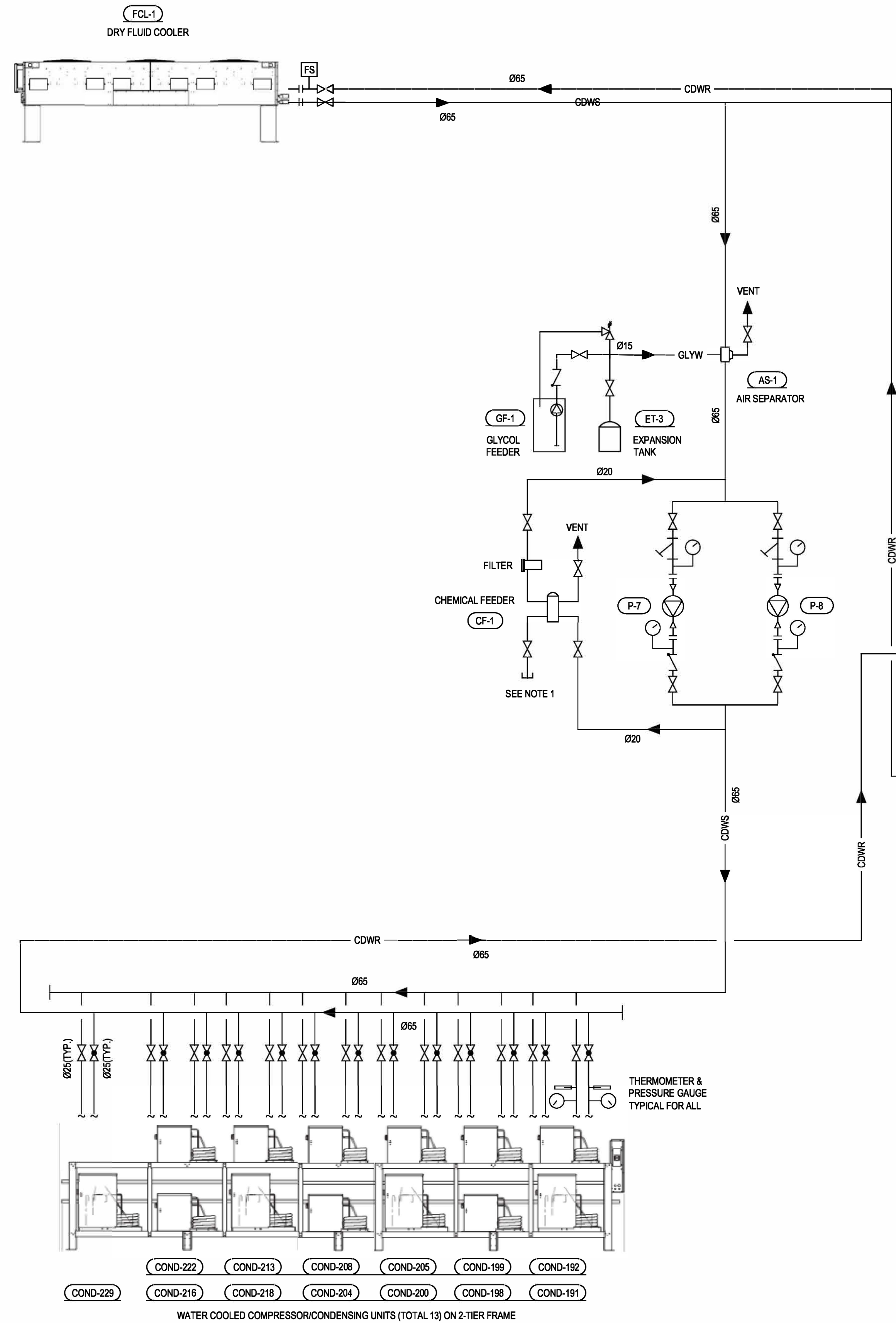
TRADE | MÉTIER
MECHANICAL DATE 2021/01/26

SUBJECT | SUJET
NEW SCHEMATICS - HYDRONIC, DOMESTIC WATER AND REFRIGERANT

DESIGNED ÉTUDIÉ	xx xx	DES O AGENT CONC
DRAWN DESSINÉ		PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ		DES MGR GEST CONC
COORDINATION		FIRE INCENDIE

WBS NO. | NO. OTP N203111.03.02 PF NO. | NO. DP MF500039

DWG. NO. | NO. DESSIN L-M95-4901/6-408



DRAWING NOTES:

1. PROVIDE DRAIN VALVE EQUIPPED WITH END HOSE CONNECTOR FOR HOSE CONNECTION AND DRAIN TO TEMPORARY GLYCOL FLUID CONTAINER AS REQUIRED FOR SYSTEM MAINTENANCE.
2. PROVIDE DRAIN VALVE EQUIPPED WITH END HOSE CONNECTOR FOR HOSE CONNECTION AND DRAIN TO NEAR FLOOR DRAIN AS REQUIRED FOR SYSTEM MAINTENANCE.

SEQUENCE OF OPERATION

1. THE PUMP (P-N1 OR P-N2) SHALL RUN CONTINUOUSLY WITH CONSTANT FLOW VOLUME WHEN ANY OF COMPRESSORS IS WORKING. PROVIDE ALTERNATION FOR DUTY-STANDBY CONTROL FOR P-N1 & P-N2 PUMPS.
2. THE CONTROLLER SHALL MEASURE LEAVING FLUID TEMPERATURE OF FLUID COOLER TO MODULATE EC MOTOR SPEED/RPM OF FLUID COOLER.
3. THE EQUIPMENT STARTING SEQUENCE SHALL BE: PUMP - FLUID COOLER - COMPRESSOR(S). THE STOPPING SEQUENCE SHALL BE OPPOSITE.
4. THE PUMP P-N3 SHALL RUN CONTINUOUSLY WITH CONSTANT FLOW VOLUME ONCE PUMP P-N1 OR P-N2 IS WORKING AND THE INLET FLUID TEMPERATURE ON SHELL SIDE IS HIGHER THAN THE WATER TEMPERATURE AT THE BOTTOM OF PREHEAT STORAGE TANK ST-N1.

1 NEW HYDRONIC, DOMESTIC WATER SYSTEMS SCHEMATIC

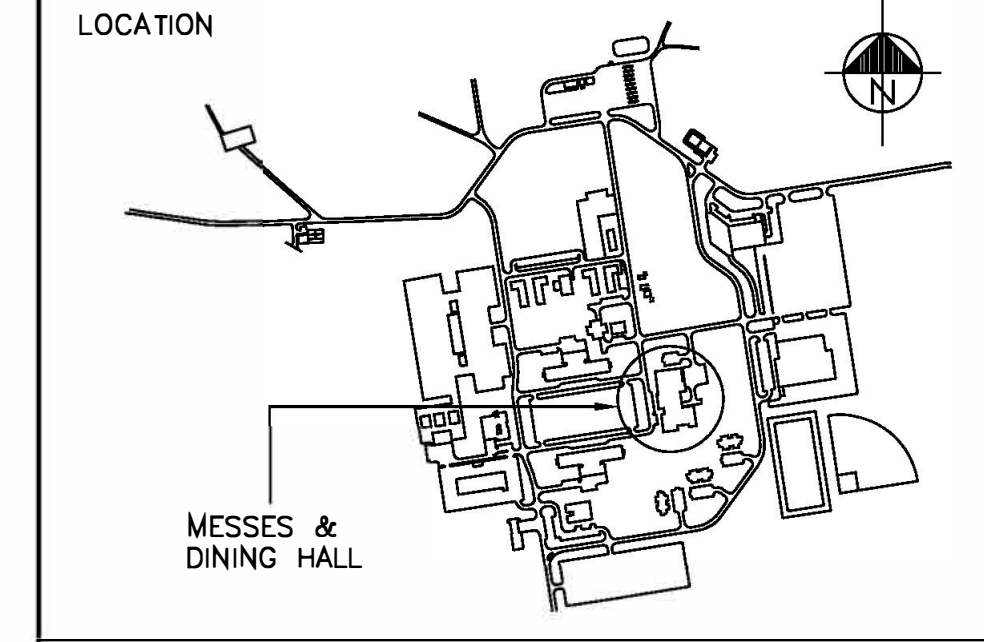
408 SCALE: N.T.S.

- COND-222 COND-213 COND-208 COND-205 COND-199 COND-192
COND-229 COND-216 COND-218 COND-204 COND-200 COND-198 COND-191
- WATER COOLED COMPRESSOR/CONDENSING UNITS (TOTAL 13) ON 2-TIER FRAME

2023/Jun/26, 4:30pm [peng] Layout1 V:\01815\adave\16150010840_Design\42_Drawing\42_Schematics - new.dwg

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NO.	DATE	REVISION	APPR.
7	2023/08/27	ISSUED FOR TENDER	D.S.
6	2023/04/24	ISSUED FOR TENDER / 100% REVIEW	D.S.
5	2023/02/28	ISSUED FOR 99% REVIEW	D.S.
4	2022/12/13	RE-ISSUED FOR 90% REVIEW	D.S.
3	2022/07/21	ISSUED FOR 90% REVIEW	D.S.
2	2022/05/19	RE-ISSUED FOR 60% REVIEW	D.S.
1	2022/04/12	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
4TH CANADIAN DIVISION TRAINING CENTRE (4 CDTC), MEAFORD, ONTARIO

PROJECT | PROJET
M-206 REFRIGERATION LIFECYCLE

TRADE | MÉTIER
MECHANICAL

DATE
2021/01/26

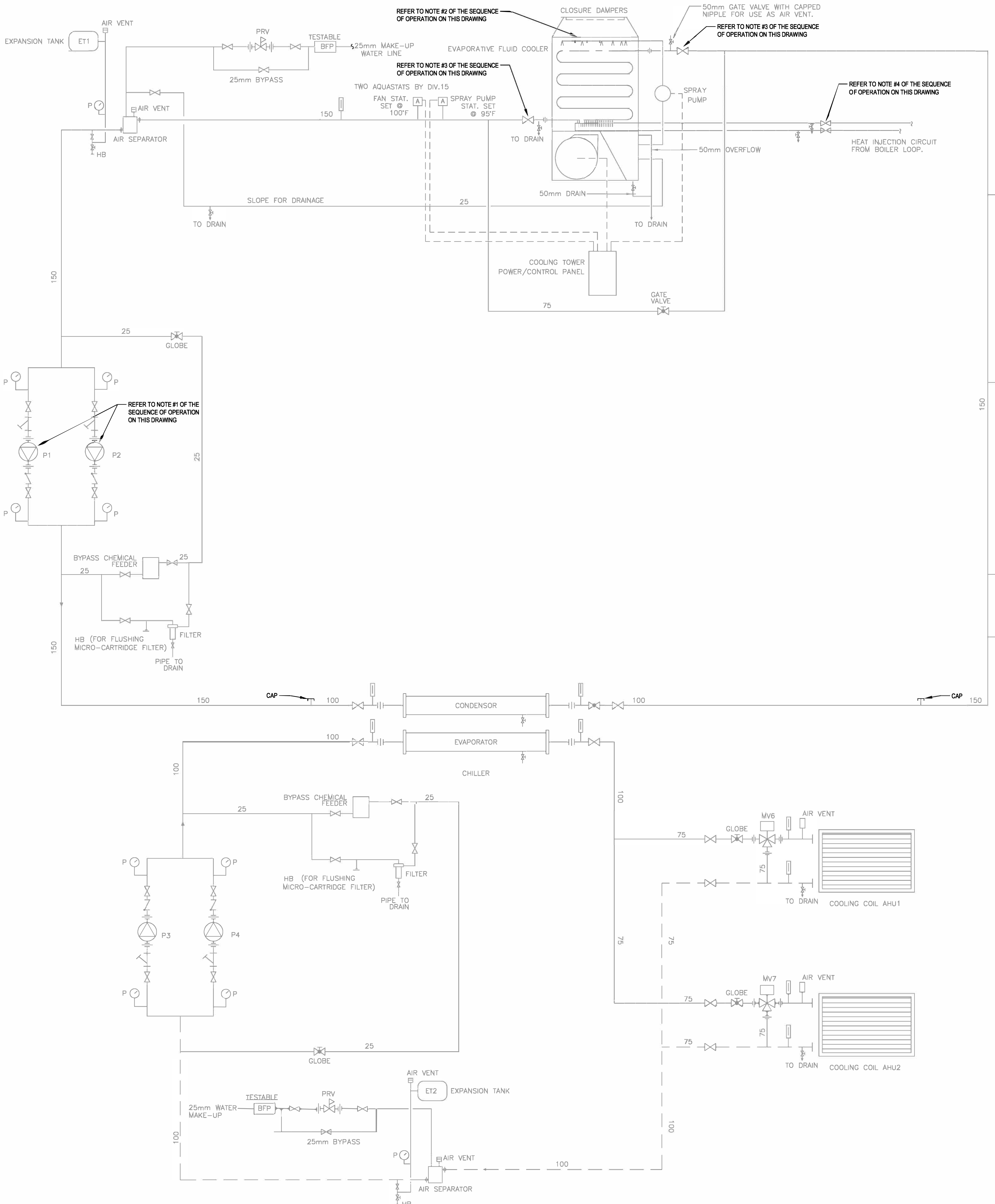
SUBJECT | SUJET
MODIFIED CHILLER HYDRONIC SYSTEM SCHEMATIC AND SEQUENCE OF OPERATION

PRODUCTION	REVIEWED REVU
DESIGNED ETUDIÉ	XX XX
F.P.	DES O AGENT CONC
DRAWN DESSINÉ	PROJ MGR GEST PROJ
F.P.	DES MGR GEST CONC
CHECKED VÉRIFIÉ	D.S.
COORDINATION	FIRE INCENDIE
D.S.	

WBS NO. | NO. OTP
N203111.03.02

PF NO. | NO. DP
MF500039

DWG. NO. | NO. DESSIN
L-M95-49016- 409



REVISED SEQUENCE OF OPERATION FOR CHILLER CONDENSING WATER SYSTEM

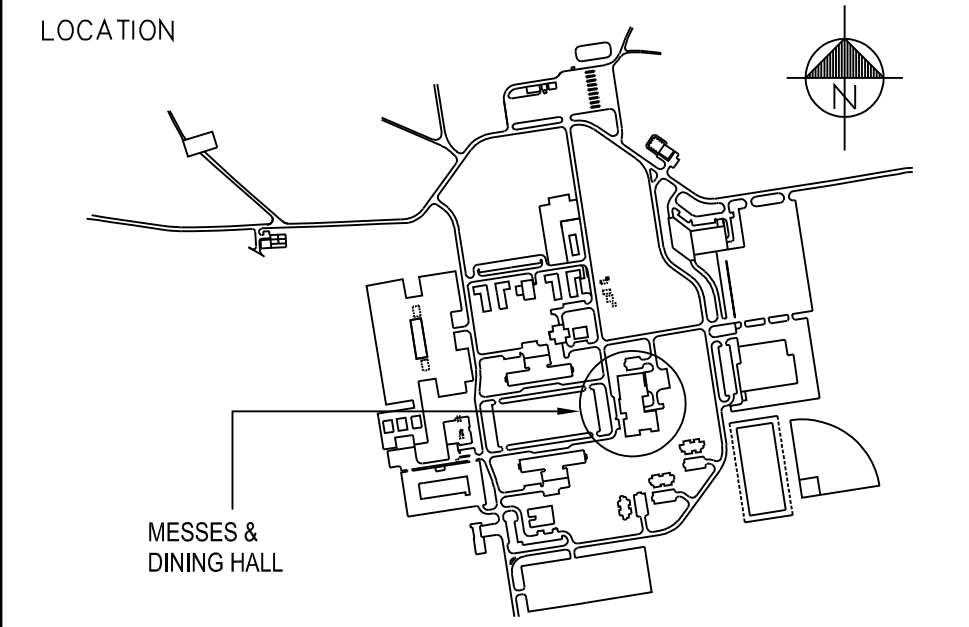
TO SAVE ENERGY, IT'S RECOMMENDED TO MODIFY THE SEQUENCE OF OPERATION FOR THE CHILLER CONDENSING WATER SYSTEM, DUE TO THE REMOVAL OF CONDENSING WATER SYSTEM OF REFRIGERATION COMPRESSOR / CONDENSING UNITS.

1. PROVIDE INTERLOCKING CONTROLS FOR THE CIRCULATION PUMPS P1 & P2 WITH THE CHILLER OPERATION. THE CHILLER SHALL HAVE ON-DELAY AND THE PUMP SHALL HAVE OFF-DELAY CONTROLS.
2. THE COOLING TOWER SHALL BE COMPLETELY SHUT DOWN AND DRIED OUT (OR OTHER PROPER WINTERIZATION OPTIONS) DURING WINTER WHEN CHILLER OPERATION IS NOT REQUIRED.
3. DRYING OUT THE CHILLER INCLUDES CLOSING THE INLET/OUTLET ISOLATION VALVES COMPLETELY AND DRAINING & EMPTYING BOTH THE COIL AND THE BASIN WITH ASSOCIATED SPRAY PUMP LINES. IN THE MEANTIME, OTHER WINTERIZATION STEPS MIGHT BE REQUIRED SUCH AS INSPECTION, CLEANING ETC.
4. THE HEAT INJECTION CIRCUIT FROM BOILER LOOP IS NOT REQUIRED ANY LONGER DUE TO NO OPERATING REQUIRED IN WINTER. THIS CIRCUIT SHALL BE EITHER DEMOLISHED COMPLETELY OR SHUT OFF THE ISOLATION VALVES PERMANENTLY WITH THE WATER IN THE COIL DRAINED AND EMPTIED.

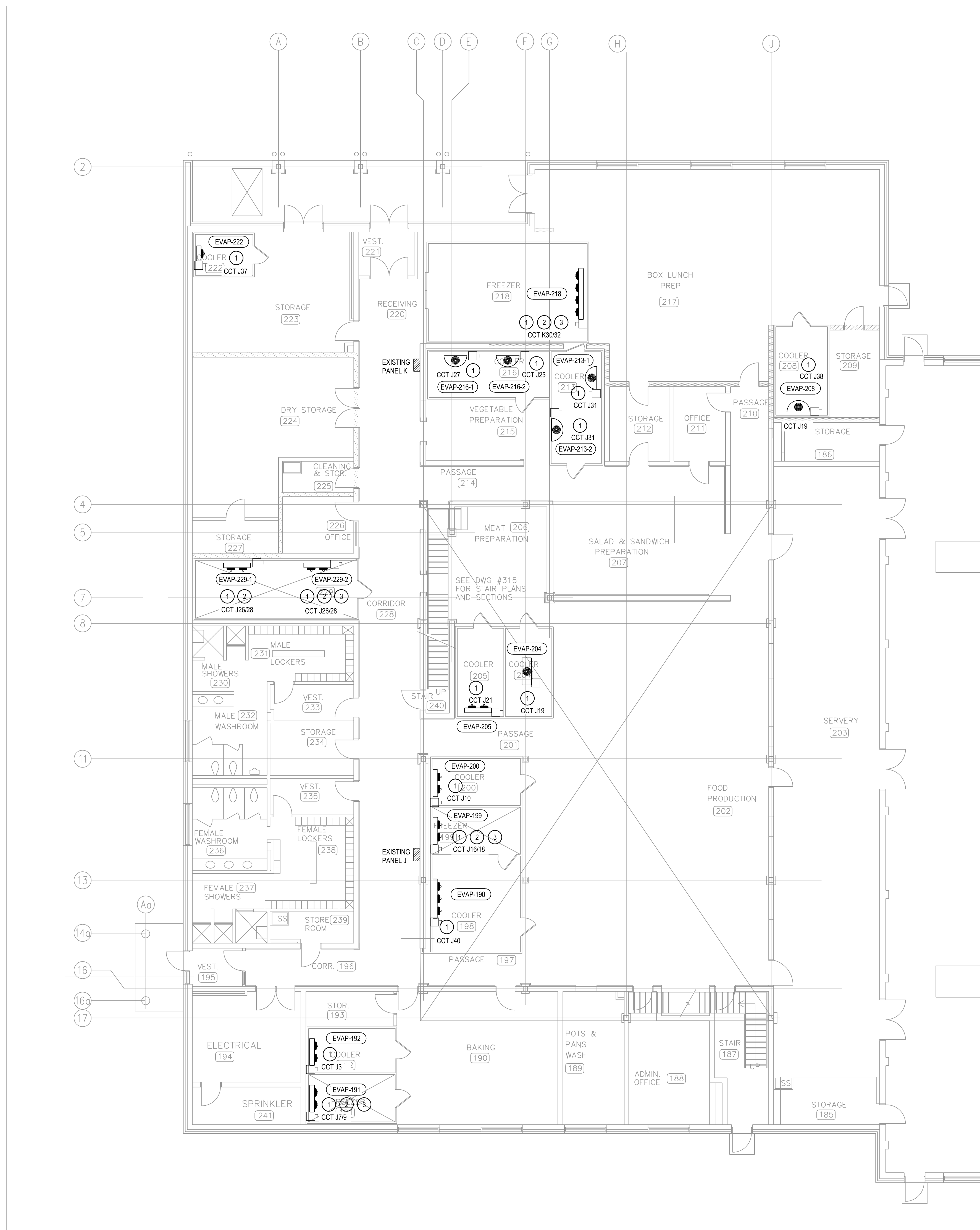
1 MODIFIED CHILLER HYDRONIC SYSTEM SCHEMATIC
409 SCALE: N.T.S.

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- NOTES**
- 1 REMOVE EVAPORATOR FEED (WIRE, CABLE AND CONDUIT etc.) BETWEEN EXISTING EVAPORATOR FROM DISCONNECT SWITCH.
 - 2 DISCONNECT EXISTING EVAPORATOR HEATER FEED. RE-CONNECT TO NEW EVAPORATOR HEATER.
 - 3 DISCONNECT EXISTING HEAT TRACE FEED FEED THROUGH EVAPORATOR. RE-CONNECT WHEN INSTALLING NEW EVAPORATOR.
 - 4 REFER TO MECHANICAL SCHEDULE FOR NEW EQUIPMENT ELECTRICAL DATA.
 - 5 RE-SEAL ALL ELECTRICAL PENETRATIONS AFTER NEW EQUIPMENT INSTALLATION.
 - 6 ALL EVAPORATORS TO BE REMOVED AND REPLACED AT SAME LOCATIONS. EXISTING DISCONNECT SWITCHES TO BE REMAINED.



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4	2022/12/13	RE-ISSUED FOR 90% REVIEW	D.S.
3	2022/07/21	ISSUED FOR 90% REVIEW	D.S.
2	2022/05/19	RE-ISSUED FOR 60% REVIEW	D.S.
1	2022/04/12	ISSUED FOR 60% REVIEW	D.S.
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
4TH CANADIAN DIVISION TRAINING CENTRE (4 CDT), MEAFORD, ONTARIO

PROJECT | PROJET
M-206 REFRIGERATION LIFECYCLE

TRADE | MÉTIER
ELECTRICAL

DATE
2021/01/26

SUBJECT | SUJET
KITCHEN REFRIGERATION SYSTEMS DEMO & NEW LAYOUT

PRODUCTION	REVIEWED REVU
DESIGNED ÉTUDE D.S.	xx xx DES O AGENT CONC
DRAWN DESSINÉ D.S.	PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ D.S.	DES MGR GEST CONC
COORDINATION D.S.	FIRE INCENDIE

WBS NO. | NO. OTP
N203111.03.02

PF NO. | NO. DP
MF500039

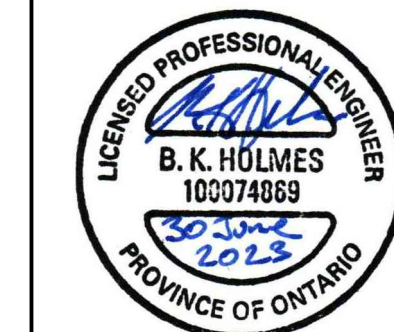
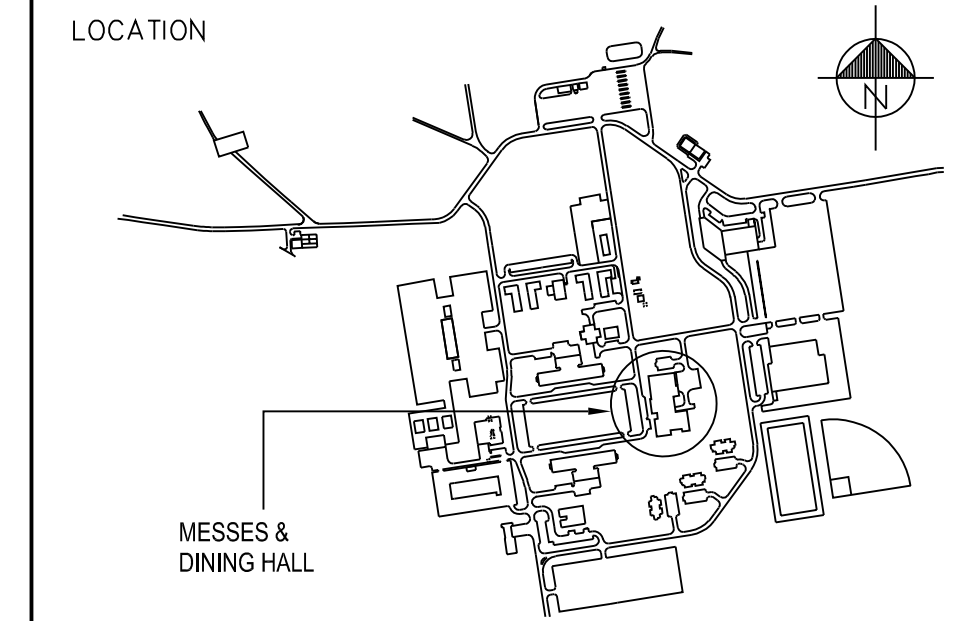
DWG. NO. | NO. DESSIN
L-M95-4901/6- 502

KITCHEN REFRIGERATION SYSTEMS DEMO AND NEW LAYOUT

1:100

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4	2022/12/13	RE-ISSUED FOR 90% REVIEW	D.S.
3	2022/07/21	ISSUED FOR 90% REVIEW	D.S.
2	2022/05/19	RE-ISSUED FOR 60% REVIEW	D.S.
1	2022/05/03	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE
1:100

LOCATION | EMPLACEMENT
4TH CANADIAN DIVISION TRAINING CENTRE (4 CDT), MEAFORD, ONTARIO

PROJECT | PROJET
M-206 REFRIGERATION LIFECYCLE

TRADE | MÉTIER
ELECTRICAL

DATE
2021/04/09

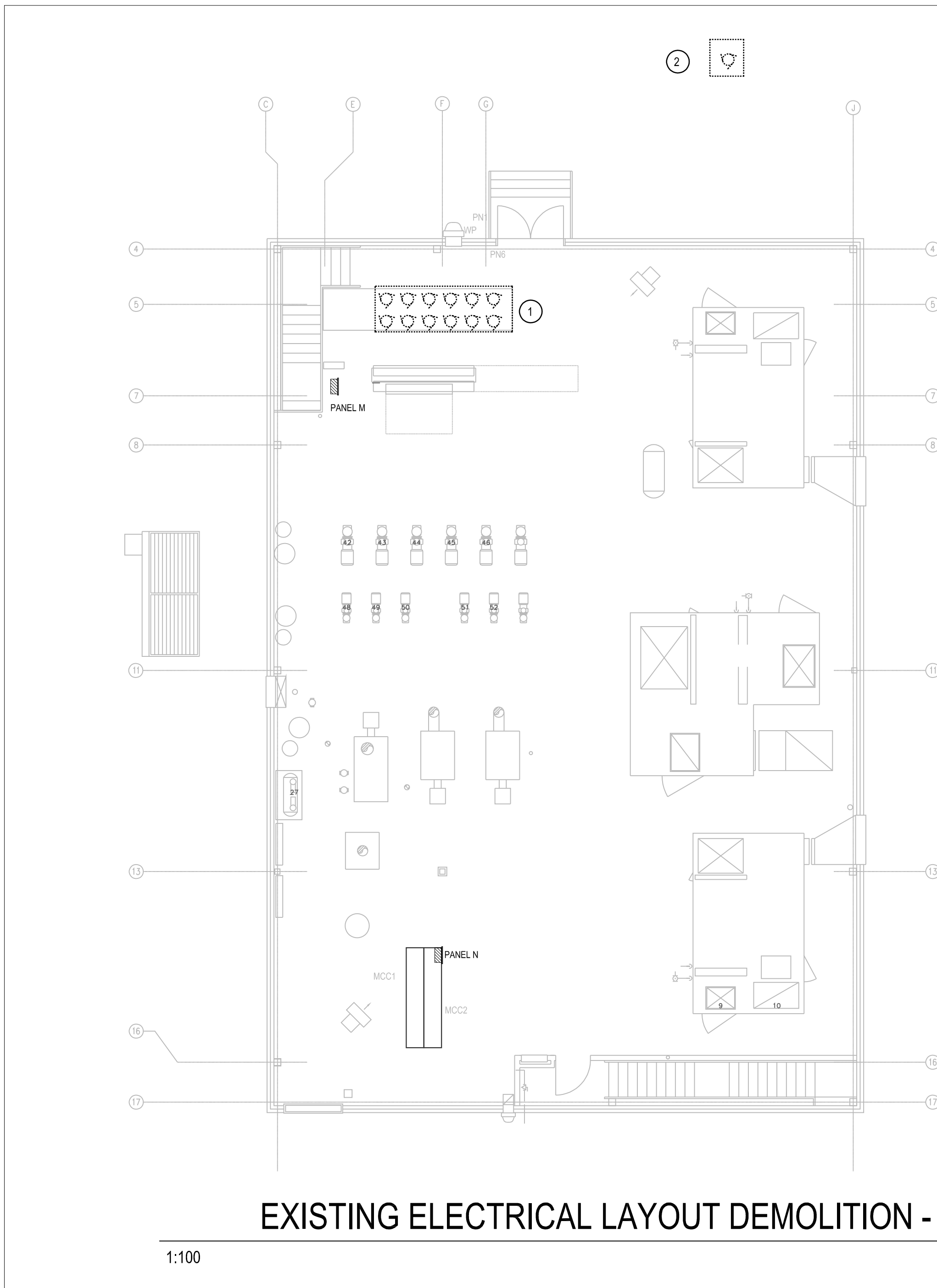
SUBJECT | SUJET
ELECTRICAL LAYOUT - PENTHOUSE

PRODUCTION	DESIGNED ÉTUDE	REVIEWED REVU	DES O AGENT CONC
		xx xx	
CHECKED VÉRIFIÉ	COORDINATION	FIRE INCENDIE	
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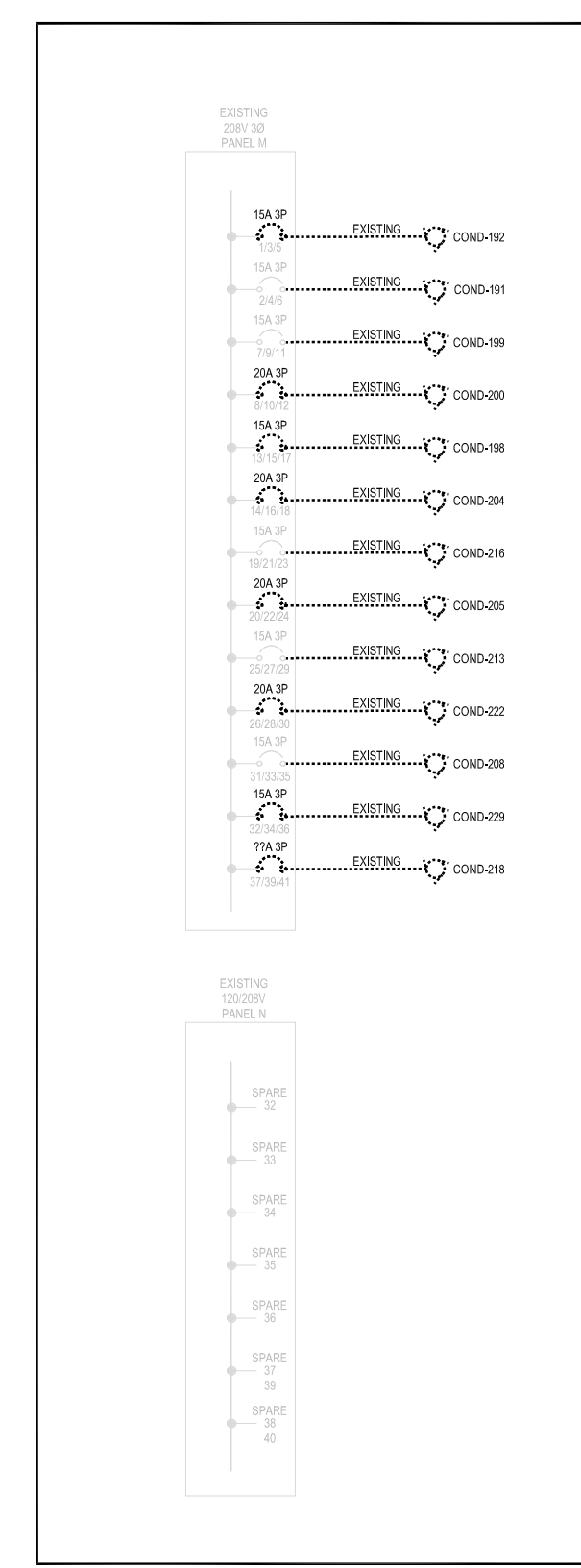
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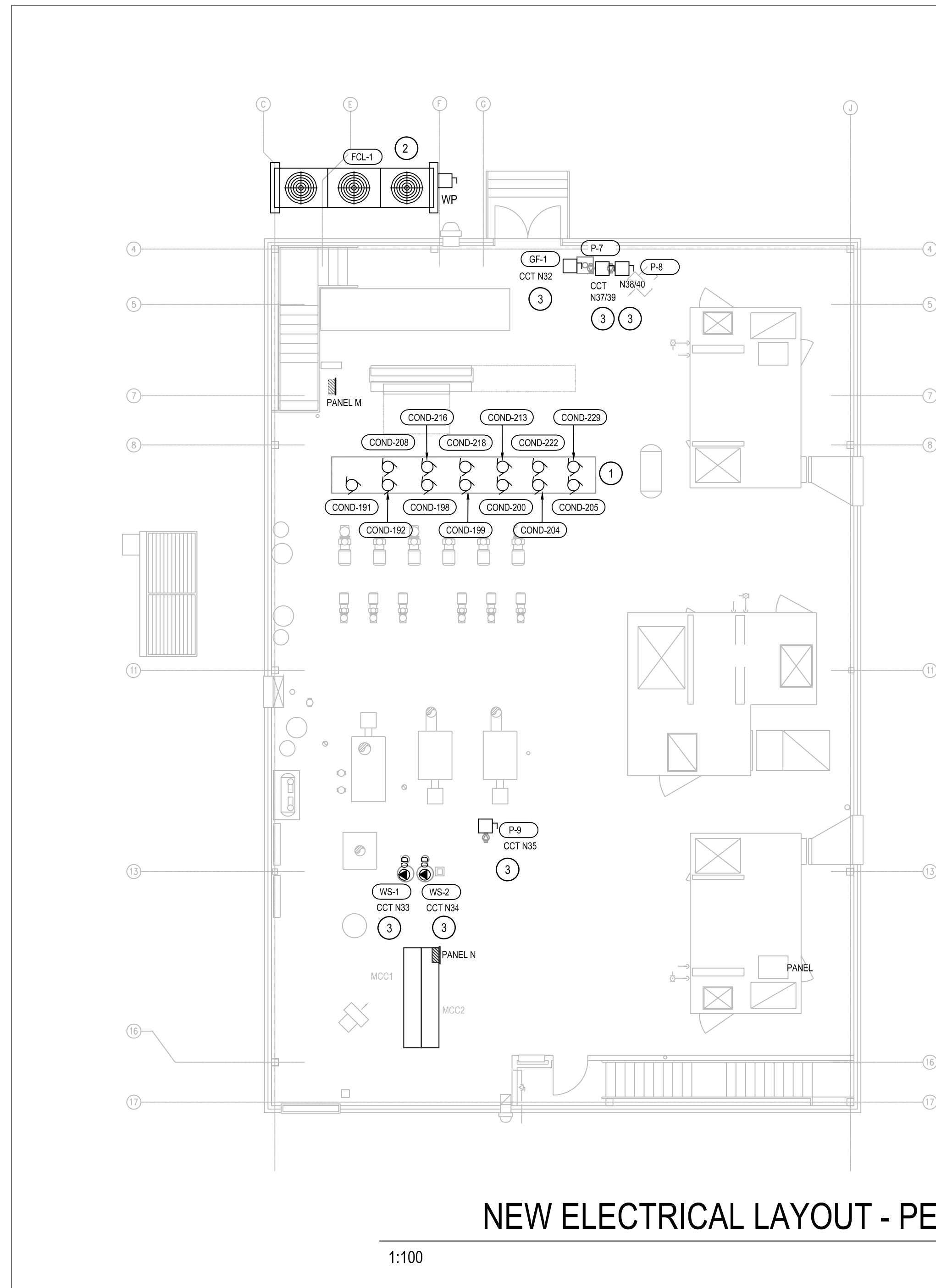


EXISTING ELECTRICAL LAYOUT DEMOLITION - PENTHOUSE

- NOTES**
- DISCONNECT EXISTING CONDENSER COMPRESSOR FEEDS INDIVIDUALLY TO ALLOW FOR REMOVAL BY DIVISION 23. REMOVE ALL ASSOCIATED DEVICES, CONDUIT AND WIRING BACK TO PANEL M PER APPROVED PHASING PLAN.
 - DISCONNECT EXISTING AIR-COOLED COMPRESSOR 218 FEED TO ALLOW FOR REMOVAL BY DIVISION 23. REMOVE ALL ASSOCIATED DEVICES, CONDUIT AND WIRING BACK TO PANEL M.

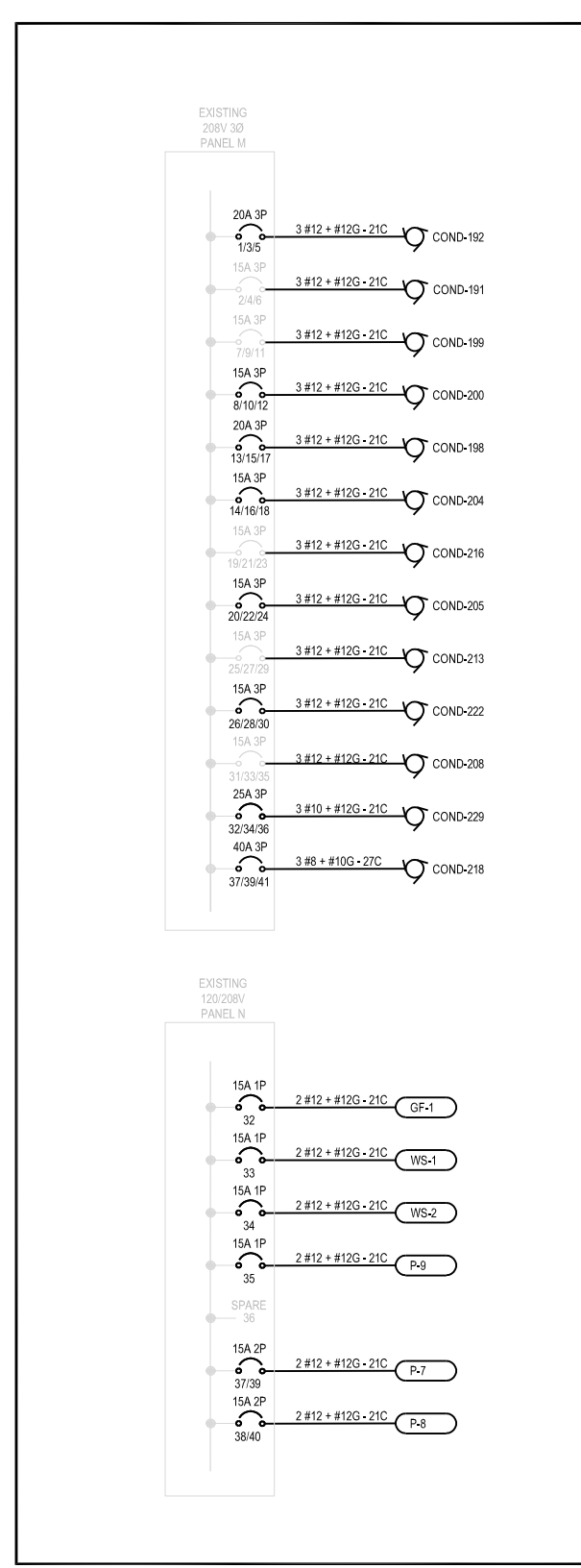


PARTIAL SINGLE LINE PANELS M & N - EXISTING

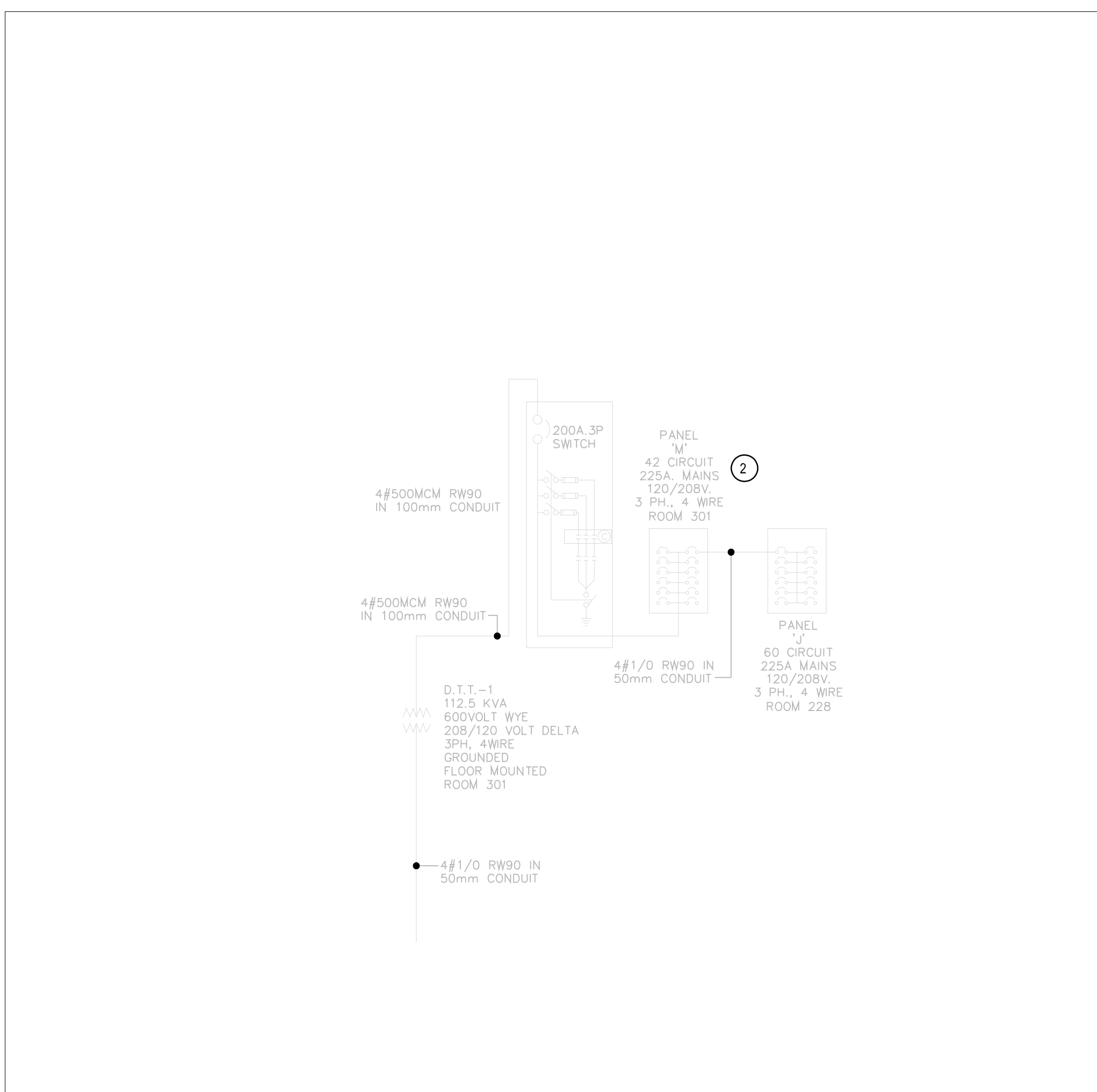


NEW ELECTRICAL LAYOUT - PENTHOUSE

- NOTES**
- RE-FEED NEW COMPRESSORS FROM EXISTING PANEL M PER APPROVED PHASING PLAN. TYPE AND INTERRUPTING CAPACITY OF NEW BREAKERS SHOULD MATCH EXISTING HOWEVER, NOT LESS THAN 12KAIC.
 - FEED FROM MCC1 - 3#12 + 12G - 21C
 - PROVIDE NEW FEED PER MECHANICAL EQUIPMENT SCHEDULE ON E501. TYPE AND INTERRUPTING CAPACITY OF NEW BREAKERS SHOULD MATCH EXISTING.



PARTIAL SINGLE LINE PANELS M & N - NEW



PARTIAL SINGLE LINE DIAGRAM - PENTHOUSE

NOTES

- COMBINATION STARTER FOR FCL-01, SPARE CELL LOCATION TO BE REVIEWED AND CONFIRMED
- REFER TO PLAN FOR PANEL M REVISIONS
- REFER TO PLAN FOR PANEL N REVISIONS

2023/06/27 10:56am qingli Layout WCD1004-01/1016/Electrical/16150010540_Design/42_Drawings/02_Current/ELEC003 - floor plan electrical - penthouse.dwg