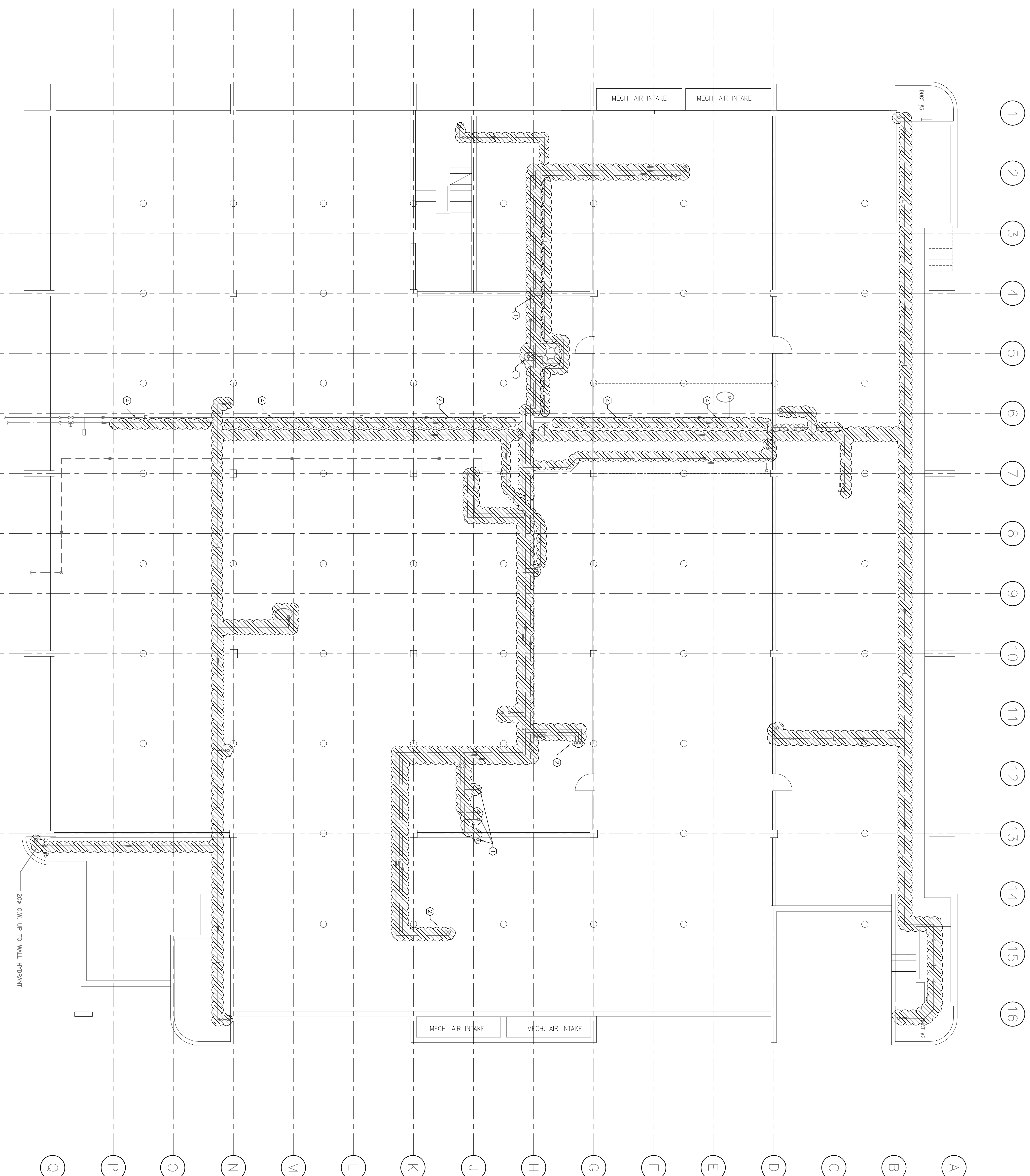


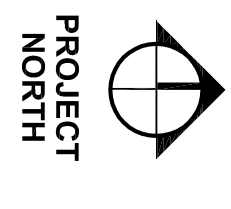
1	ISSUED FOR PERMIT	12/05/18
2	ISSUED FOR TENDER	12/05/18
3	ISSUED FOR PRC REVIEW	12/05/18
4	ISSUED FOR AEC REVIEW	12/05/18
5	Finalized Client/Client	12/05/18

- GENERAL NOTES:**
- REFER TO MECHANICAL GENERAL NOTES ON DWG M-1 FOR ADDITIONAL INFO CONCERNING INTENT OF DEMOLITION SCOPE OF WORK.
 - REFER TO SCHEMATIC DWGS FOR WORK DETAILS ON VALVING, AND PIPING ARRANGEMENT.
 - NEW PIPING TO BE RUN IN PARALLEL TO ALLEVIATE SHUT-DOWNS, DEMOLISH ABANDONED PIPING AFTER NEW SYSTEM IS IN OPERATION.
 - DEMOLISH EXISTING PIPING AFTER NEW PIPING SYSTEM IS INSTALLED.
 - REMOVAL OF ALL EXISTING PIPING INCLUDES REMOVAL OF ALL RELATED COMPONENTS AS WELL AS SUPPORTING HANGERS, RODS, ETC.
 - NO ABANDONED PIPING LEFT IN CEILING IS ALLOWED AFTER NEW PIPING IS INSTALLED.

- REMARKS - NOTES:**
- REMOVE EXISTING DWV AND DCW LINES UP SERVING TO REMAIN IN PREPARATION FOR EPOXY COATING TREATMENT.
 - REMOVE DCW, DHW AND DWV LINES TO EXISTING EMERGENCY SHOWER AND EYE WASH, EMERGENCY SHOWER AND EYE WASH TO BE RE-PIPED TO TEMPORARY WATER LINE.
 - REMOVE DCW, DHW AND DWV LINES TO ABANDONED SINK.
 - REMOVE EXISTING DCW ENTRY LINE



1 M-2 CRAWL SPACE - DEMO PLAN
SCALE: 1:100



AME Group
 Consulting Professional Engineers

VANCOUVER
 T. (604) 864-5993 F. (604) 864-5993
 501 - 134 ARBORN STREET
 VANCOUVER, BC V6B 2K4

VICTORIA
 T. (250) 382-5999 F. (250) 382-5998
 721 JOHNSON STREET
 VICTORIA, BC V8W 1W8

Rev.	Issued For	Date
1	ISSUED FOR PERMITS	12/05/18
2	ISSUED FOR PRC REVIEW	12/05/18
3	ISSUED FOR AEC REVIEW	12/05/18
4	ISSUED FOR AEC REVIEW	12/05/18

Project title/Titre du projet
3155 WILKINGDON GREEN
CFIA BURNABY LAB
LAB AND DOMESTIC
WATER RE-PIPE
PROJECT

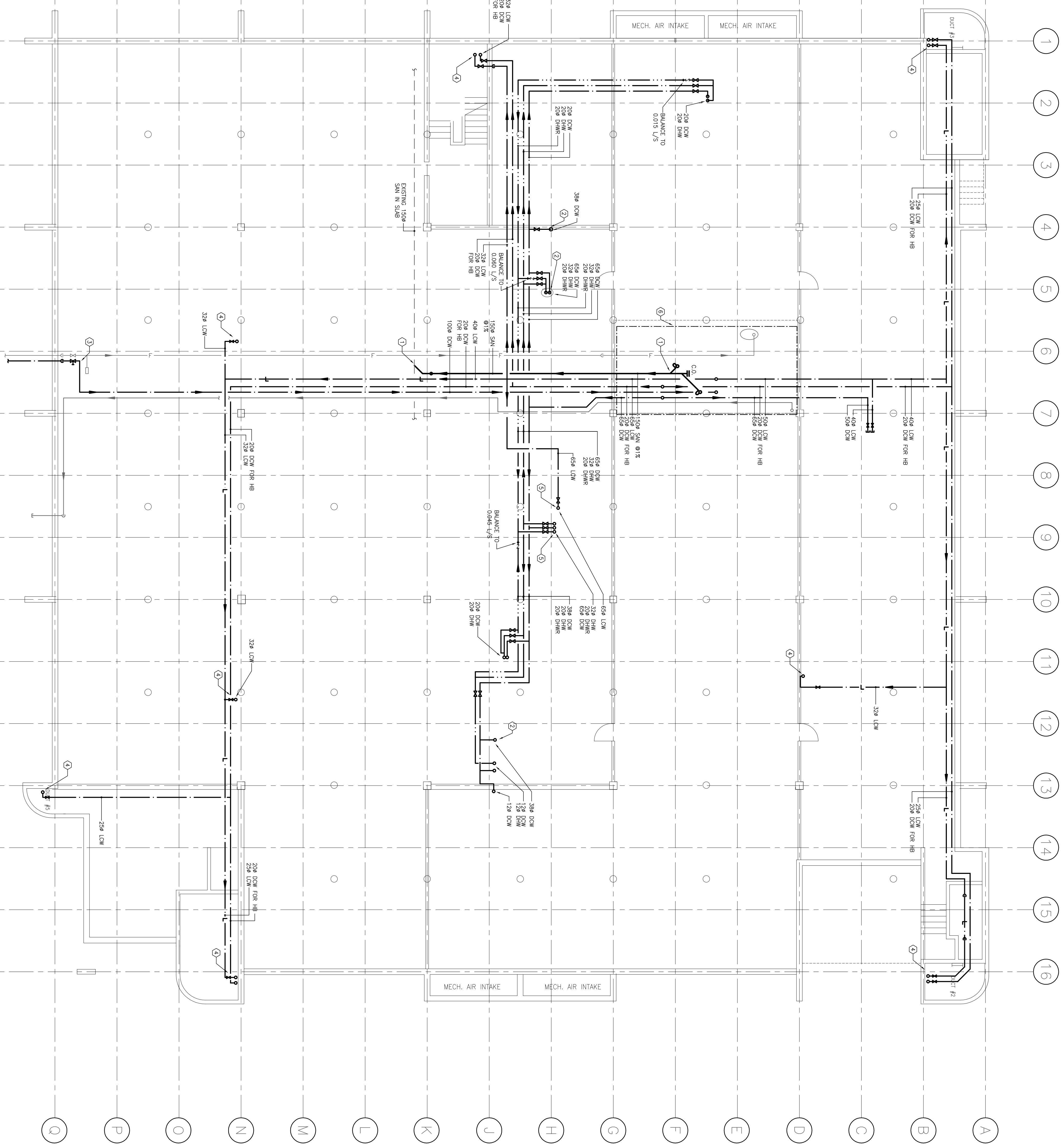
Designer/Concept par
 Z.Pujile
 Drawn by/Designé par
 B.Chinn
 Project Manager/Administrateur de Projets
 FWSJC
 Regional Manager, Architecture and Engineering Services
 Cariboune regional, Services d'architecture et de génie, TRSJC

CRAWL SPACE -
NEW PLAN

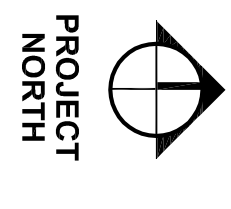
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M-3	3 of 14	0

- REMARKS NOTES:**
1. RUN NEW 150# SANITARY LINE FOR NEW FLOOR DRAIN TO EXISTING 150# DRAIN LINE IN SLAB.
 2. RUN NEW PIPING UP TO SLAB PERMITTED FOR RE-PIPE MECHANICALS UPON COMPLETION OF RE-PIPE WORK. NEW SAN AND DCW LINES.
 3. RUN NEW DCW MAIN LINE IN PARALLEL WITH EXISTING MAIN SHUT OFF VALVE, AFTER ALL WORK IS DONE, TO MANUALLY SHUT DOWN TANK.
 4. NEW DCW, DCW, DRAIN, AND LCV LINES TO BE RUN IN PARALLEL WITH EXISTING MAINS UP TO ROOF.
 5. HEAT TRACE AND INSULATE ALL PIPING WITHIN DRYWALL ENCLOSURE WITHIN DRYWALL ENCLOSURE. CONTRACTOR TO ALLOW FOR ELECTRICAL CONNECTION.

- GENERAL NOTES:**
1. REFER TO MECHANICAL GENERAL NOTES ON DWG M-10 FOR ADDITIONAL INFO CONCERNING INTENT OF DEMOLITION SCOPE OR WORK.
 2. REFER TO SCHEMATIC DWG'S FOR WORK DETAILS ON VALVES, AND PIPING ARRANGEMENT.
 3. PROVIDE CIRCUIT BALANCING VALVES AND CHECK VALVES ON ALL RE-PIPE BRANCHES.
 4. ALL PRES. PERMITTING FULL HEIGHTS WALL TO BE SEALED AND FIRE STOPPED.



CRAWL SPACE - NEW PLAN
 SCALE: 1:100



PROJECT NORTH

AME Group
Consulting Professional Engineers

VANCOUVER
1 (604) 864-5993 F. (604) 864-5993
501 - 134 ARBORN STREET
VANCOUVER, BC V6B 2K4

VICTORIA
T. (250) 382-5999 F. (250) 382-5998
721 JOHNSON STREET
VICTORIA, BC V8W 1W8

Rev.	Issued For	Date
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3	ISSUED FOR PERMIT	12/06/15
4	ISSUED FOR PERMIT	12/06/15
5	ISSUED FOR PERMIT	12/06/15

Project Title/Titre du projet
3155 WILLINGDON GREEN
CFIA BURBARY LAB
LAB AND DOMESTIC
WATER RE-PIPE
PROJECT

Consultant Signature Only

Designed by/Concept par
Z.Pujile

Drawn by/Designé par
B.Chinn

Project Manager/Administrateur de Projets
FWSCC

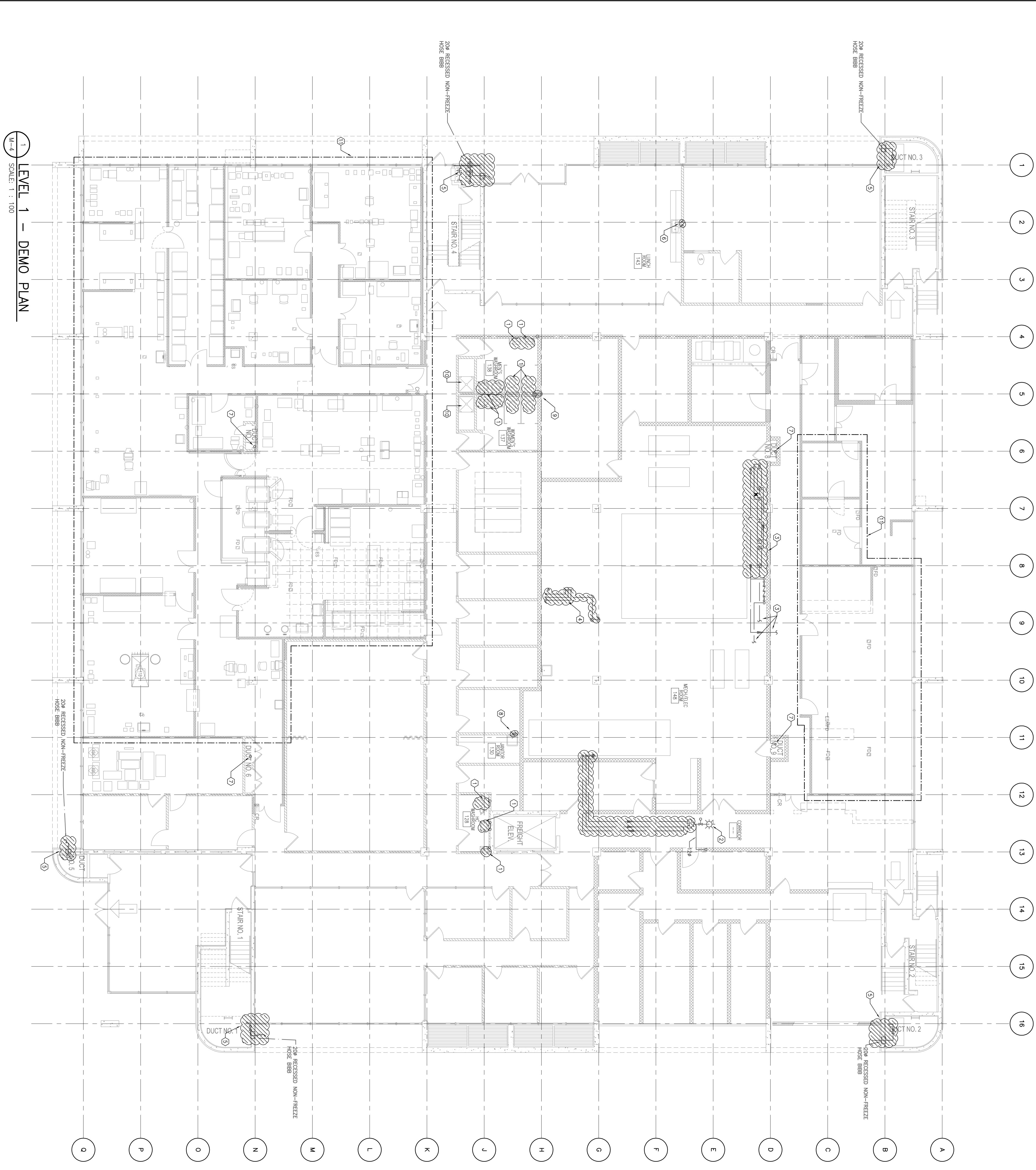
Regional Manager, Architecture and Engineering Services
Caroline Rodrigue, Services d'Architecture et d'Ingénierie
FWSCC

Drawing Title/Titre du dessin
LEVEL 1 - DEMO PLAN

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- DEMING NOTES:**
- REMOVE EXISTING PLUMBING FITURES IN PREPARATION FOR EXISTING PLUMBING RE-PIPE.
 - REMOVE EXISTING TEMPERING VALVE FOR EMERGENCY PLUMBING. EXISTING EMERGENCY SHOWER AND EMERGENCY SHOWER TO REMAIN.
 - REMOVE EXISTING WATER ENTRY ASSEMBLY AFTER CONNECTION OF NEW WATER ENTRY ASSEMBLY. PIPING SERVING RD SYSTEM AND CONSOLIDATION AREA.
 - REMOVE EXISTING DHW, DOW, AND DHW, AND LOW LINES TO PENHOUSE.
 - REMOVE EXISTING HOUSE BBS AND LOW RISERS.
 - REMOVE DOW AND DHW LINES SERVING EXISTING SINK FROM BELOW.
 - REMOVE EXISTING LOW RISERS.
 - REMOVE DOW AND DHW LINES SERVING EXISTING JANITOR SINK FROM BELOW.
 - EXISTING CONCEALED PIPING IN WASHROOM TO REMAIN. PIPING TO BE CLEANED AND PREPARED FOR EMERGENCY PLUMBING RE-PIPE.
 - CONTRACTOR TO DIS-ASSEMBLY EXISTING SHOWER VALVE AND PREPARE CONNECTIONS FOR EPOXY TREATMENT.
 - REMOVE EXISTING TEMPERING VALVES IN CONSOLIDATION AREA, ALLOW FOR (10)

- GENERAL NOTES:**
- REFER TO MECHANICAL GENERAL NOTES ON DWG M-4 FOR ADDITIONAL INFORMATION REGARDING SCOPE OF WORK.
 - REFER TO SUPPLEMENTAL DWGS FOR WORK DETAILS ON VALVING, AND PIPING ARRANGEMENT.
 - NEW PIPING TO BE RUN IN PARALLEL TO EXISTING PIPING. DEMONISH ABANDONED PIPING AFTER NEW SYSTEM IS IN OPERATION.
 - DEMOLISH EXISTING PIPING AFTER NEW PIPING SYSTEM IS INSTALLED.
 - REMOVAL OF ALL EXISTING PIPING INCLUDES REMOVAL OF ALL RELATED COMPONENTS AS WELL AS SUPPORTING HANGERS, RODS, ECT.
 - NO ABANDONED PIPING LEFT IN CEILING IS ALLOWED AFTER NEW PIPING IS INSTALLED.
 - DEMOLISH ALL WATER LINES SERVING PENHOUSE FLOOR DRAIN TRAP PRIMER.

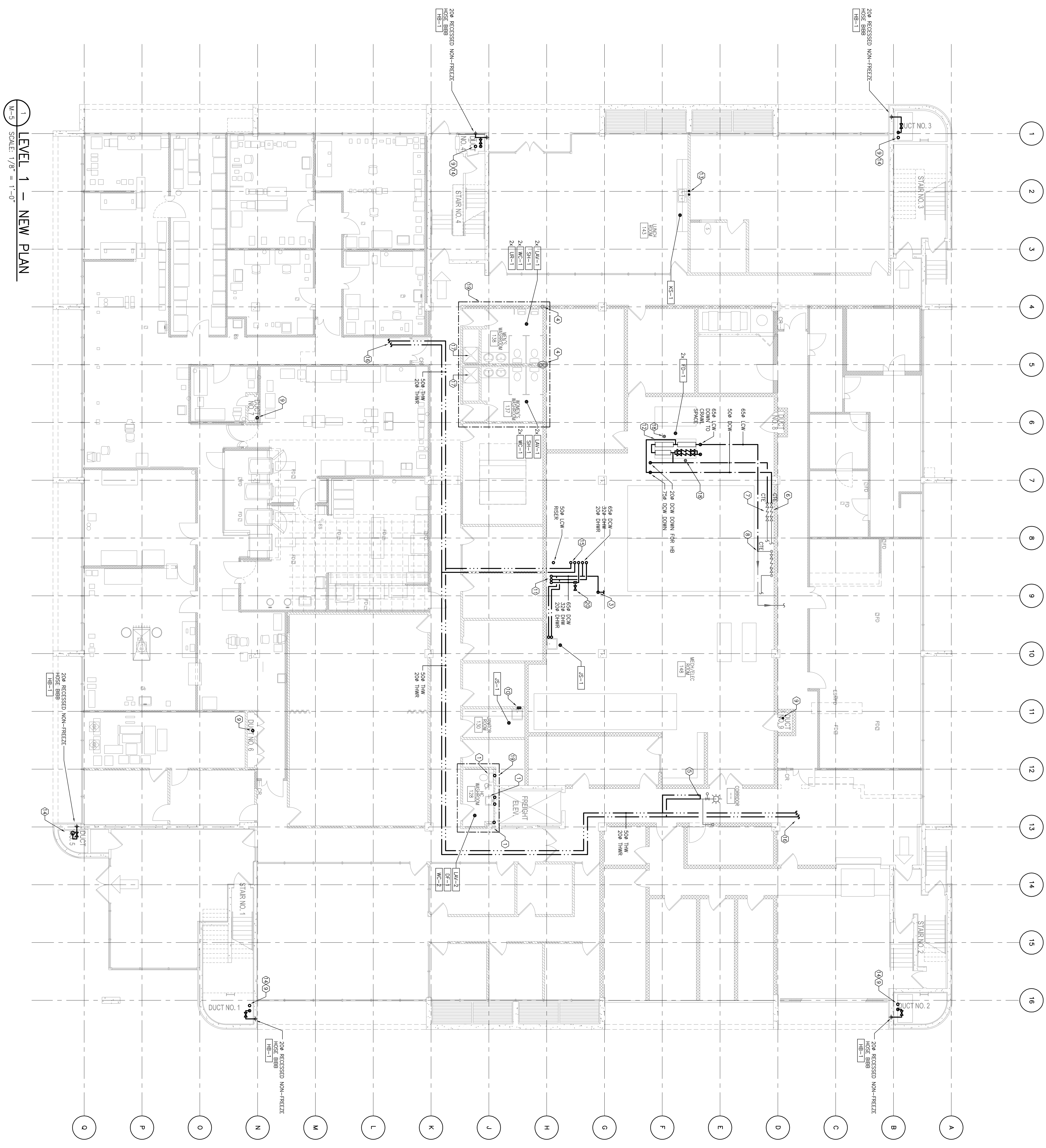


LEVEL 1 - DEMO PLAN
SCALE: 1 : 100

GENERAL NOTES:

- REFER TO SCHEMATIC DWG'S FOR WORK DETAILS ON VALVING, AND PIPING ARRANGEMENT.
- COORDINATE WITH OWNER INSTALLATION OF ALL ACCESS PANELS FOR ACCESS OF EQUIPMENT & ISOLATION VALVES IN CONCEALED SPACES.
- ALL NEW RISERS SHALL HAVE ISOLATION VALVES ON EACH FLOOR.
- CONTRACTOR IS TO HAVE ALLOWANCE FOR RE-PIPING EXISTING FLOOR DRAIN TRAP PRIMERS, NEW TRAP PRIMERS APPROXIMATELY (9) FLOOR DRAINS, NEW TRAP PRIMERS CONTROL PANEL AND WIRING. ALL ELECTRICAL WORK TO BE DONE BY ELECTRICAL TRADE (Hired DIRECTLY BY MECHANICAL CONTRACTOR).
- PROVIDE CIRCUIT BALANCING VALVES AND CHECK VALVES ON ALL RE-CIRC BRANCHES.
- ALL PRESS PENETRATING FILL HEIGHTS WILL TO BE SEALED AND FIRE STOPPED.

- REMOVE EXISTING PLUMBING FIXTURES IN PREPARATION FOR EXISTING COATING PIPING TREATMENT.
- PROVIDE TRAP PRIMER FOR ALL NEW FLOOR DRAINS.
- CONNECT DHW LINE TO EXISTING STEAM GENERATOR.
- ALL PIPING WITHIN WASHROOM ARE TO BE EPXY GROUTED WITHIN 14 DAYS OF INSTALLATION. ALL WASHROOM PROCESS ARE LOCATED IN COMM-SPACE.
- CONNECT EYE WASH AND EMERGENCY SHOWER TO RE-CIRC LINE. PROVIDE NEW DRAIN LINE AND TEMPERED WATER RE-CIRC LINE TO HEATING WATER MAKE-UP CONNECTION.
- NEW 50# DOW LINE TO EXISTING IRRIGATION LINE.
- NEW 50# DOW LINE TO EXISTING CONDENSATION PUMP AND RO SYSTEM CONNECTION.
- LOW RISERS LINES IN EXISTING SHAWT.
- RE-CONNECT ROW AND DHW LINES FROM BELOW TO JANITOR SINK. INSTALL NEW RISERS (DHW & DOW) FOR JANITOR SINK. RE-PP TO BE MOUNTED ABOVE SINK AND PROVIDE NEW DRAIN LINE INTO JANITOR SINK.
- NEW DOW, DHW, DHW, LOW MAINS TO BE INSTALLED IN PARALLEL TO EXISTING SYSTEM.
- NEW DOMESTIC WATER ENTRY ASSEMBLY TO BE INSTALLED IN PARALLEL. REFER TO SCHEMATIC AND DETAILS FOR MORE INFORMATION.
- RE-CONNECT DOW AND DHW LINES FROM BELOW TO KITCHEN SINK.
- RAIN NEW HOSE BIBB WATER LINE. INSTALL NEW NON TEMPERED WATER RE-CIRC LINE. UP TO SECOND FLOOR.
- RAIN NEW 50# TEMPERED WATER LINE AND 20# TEMPERED WATER RE-CIRC LINE. UP TO SECOND FLOOR.
- CONNECT EYE WASH AND EMERGENCY SHOWER TO EXISTING TEMPERED WATER LINE AND TEMPERED WATER VALVE ON TEMPERED WATER RE-CIRC LINE. ALLOW HOOD-UP BALANCE RE-CIRC LINE AS NOTED.
- CONTRACTOR SHALL CARRY THE EXTRA COST ASSOCIATED WITH THE REPLACEMENT OF THE SHOWER VALVES IS REQUIRED.
- PROVIDE NEW TRAP PRIMER FOR NEW FLOOR DRAIN. TRAP PRIMER TO BE DIFFERENTIAL PRESSURE TYPE CONNECTED OFF DOW MAIN.
- RE-INSTALL GRUBS INTO NEW WASHROOM DELUXE ACCESSORIES OR SINK RESERVINGS IF REQUIRED. CONTRACTOR TO PROVIDE ANY NECESSARY FINISHED FLOOR ELEVATION. CONTRACTOR TO INSTALL NEW LUMINAIRES IN NEW WASHROOMS. CONTRACTOR TO PROVIDE ANY NECESSARY ELECTRICAL WORK. CONTRACTOR SHALL HAVE ALLOWANCE FOR THE RE-INSTALLATION OF ANY OTHER COMPONENTS INSTALLED IN THE CEILING. (IE. SENSORS).
- INSTALL PIPE WELL COMPLETE WITH REGULATION VALVE FOR FUTURE WASHROOM TEMPERATURE SENSOR.



LEVEL 1 - NEW PLAN
SCALE: 1/8" = 1'-0"

Rev.	Description	Date
5		
4		
3	ISSUED FOR TENDER	12/02/18
2	ISSUED FOR P&C REVIEW	12/06/18
1	ISSUED FOR A&E REVIEW	12/06/18
0	ISSUED FOR G&E REVIEW	12/06/18

Project/Client	
3155 WILLINGDON GREEN	CFIA BURNABY LAB
LAB AND DOMESTIC	WATER RE-PIPE
PROJECT	

Consultant Signature Only	
Designed by/Concept par	Z.Pujile
Drawn by/Dessiné par	B.Chaim

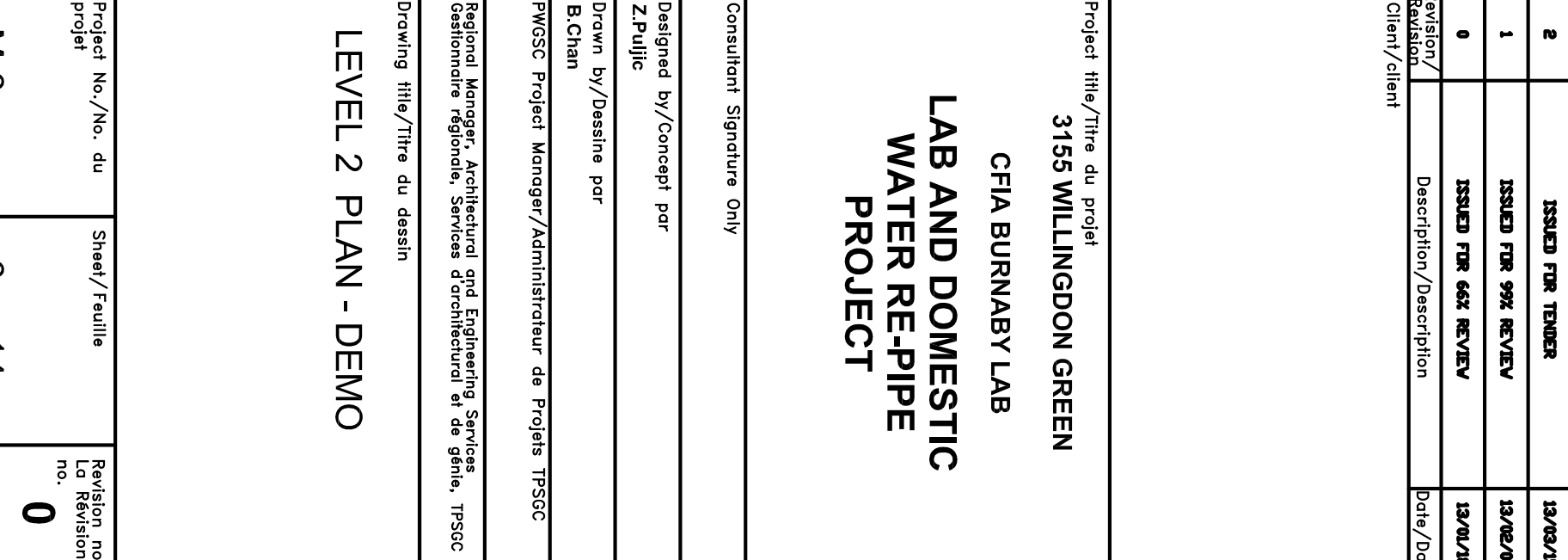
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Revision no./No. de Révision	0

Project/Title du projet	
3155 WILLINGDON GREEN	CFIA BURNABY LAB
LAB AND DOMESTIC	WATER RE-PIPE
PROJECT	

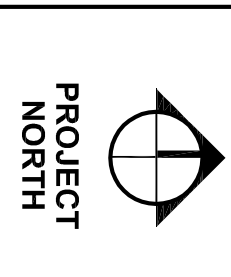
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LEVEL 2 PLAN - DEMO	

General Notes	
1	REMOVE EXISTING TEMPERING VALVE IN CEILING OFF AT MAIN. SCISSOR AND/OR EMERGENCY SHOWER TO REMAIN.
2	EXISTING CONCEALED PIPING IN WASHROOM TO REMAIN. PIPING TO BE CLEANED AND PREPARED FOR EPDM LINING TREATMENT. RE-PIPE FROM DW AND SHOWER FROM REAR BATH TO EXISTING VALVE. EPDM COAT THEREAFTER.
3	RE-PIPE DRAINAGE LINES UP TO RPPR FOR FULL-FLOOR WASHROOM.

GENERAL NOTES:	
1	REFER TO MECHANICAL GENERAL NOTES ON DWG M-1 FOR ADDITIONAL INFO CONCERNING INTENT OF DEMOLITION SCOPE OF WORK.
2	REFER TO SCHEMATIC DWGS FOR WORK DETAILS ON VALVING, AND PIPING ARRANGEMENT.
3	NEW PIPING TO BE RUN IN PARALLEL TO ALLEVATE SHUT-DOWNS. DEMOLISH ABANDONED PIPING AFTER NEW SYSTEM IS IN OPERATION.
4	DEMOLISH EXISTING PIPING AFTER NEW PIPING SYSTEM IS INSTALLED.
5	REMOVAL OF ALL EXISTING PIPING INCLUDES REMOVAL OF ALL RELATED COMPONENTS AS WELL AS SUPPORTING HANGERS, ROSS, EOI.
6	NO ABANDONED PIPING LEFT IN CEILING IS ALLOWED AFTER NEW PIPING IS INSTALLED.



1 LEVEL 2 - DEMO PLAN
 M-6 SCALE: 1 : 100



PROJECT NORTH

VANCOUVER
1 (604) 884-5993 F. (604) 884-5993
501 - 134 ARBORN STREET
VANCOUVER, BC V6B 2K4

VICTORIA
T. (250) 382-5999 F. (250) 382-5998
721 JOHNSON STREET
VICTORIA, BC V8W 1M8

3155 WILLINGDON GREEN
CFIA BURBARY LAB
LAB AND DOMESTIC
WATER RE-PIPE
PROJECT

Consultant Signature Only

Designed by/Concept par
Z.Pujalte

Drawn by/Designé par
B.Chalm

Project No./No. du projet
M-7

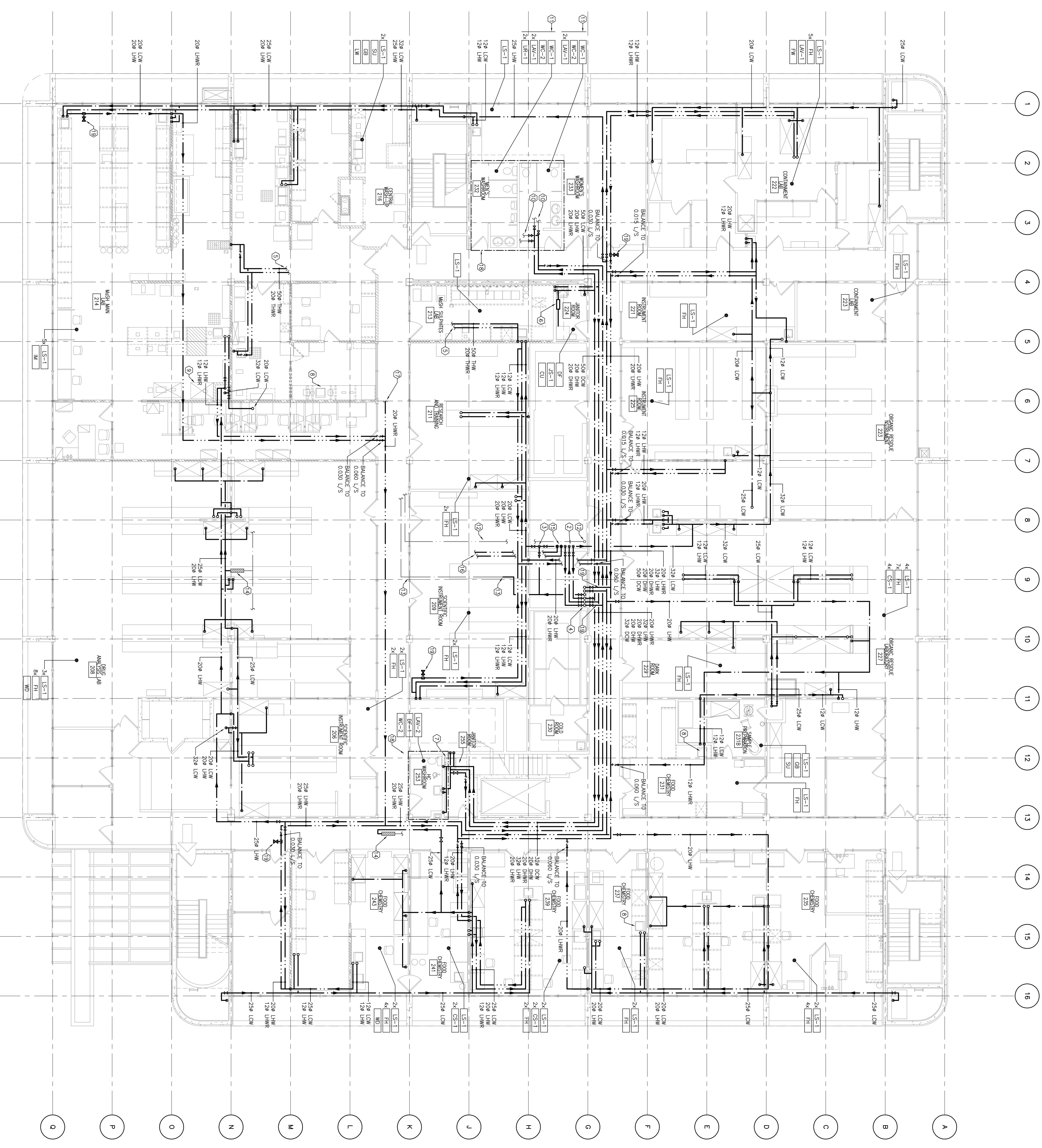
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Sheet/Feuille
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DWG No./No. de dessin
M-7

- REMARKS/NOTES:**
- REMOVE EXISTING TEMPERING VALVE IN CEILING OFF AT MAIN, FRESH AND/OR EMERGENCY SHOWER TO REMAIN.
 - NEW 634 DCW, 328 DWH, AND 258 DWH RISERS.
 - NEW 634 LCW RISERS.
 - NEW 508 DCW, 328 DWH, 258 DWH, 508 LCW, 408 LHM, AND 208 LHM LINES TO PENHOUSE.
 - CONNECT FIVE WASH AND EMERGENCY SHOWER TO EXISTING TEMPERED WATER LINE AND TEMPERED WATER VALVE ON TEMPERED WATER RE-CIRC LINE. ALLOW TEMPERED WATER HOOD-UP.
 - RE-CONNECT DOW LINE TO EXISTING HVAC CONDENSER COMPLETE WITH NEW RRPB.
 - INSTALL NEW RRPB'S (LOCK, DWH) FOR JANITOR SINK, DRAIN LINE INTO JANITOR SINK.
 - INSTALL NEW LAB FAUCET COMPLETE WITH VACUUM BREAKER, REFER TO DRAWING M-1 FOR MORE INFORMATION.
 - INSTALL NEW VACUUM BREAKER ON EXISTING FUME HOOD.
 - RE-PRE EXISTING DCW AND DWH LINES UP TO DOWN STREAM OF ISOLATION VALVE TO BE EPOXY COATED. REFER TO SPECIFICATION APPENDIX A FOR DETAILS.
 - REMOVE EXISTING PLUMBING FEATURES PRIOR TO EPOXY COATING. INSTALL NEW PLUMBING FITTINGS FOR DETAILS.
 - REFER TO MECHANICAL SCHEDULES FOR DETAILS.
 - EXISTING CONSOLIDATION 328 LHM LINE TO REMAIN.
 - EXISTING CONSOLIDATION LCW LINE TO REMAIN.
 - CONNECT NEW 508 LCW LINE TO NEW 508 LCW LINE RE-PIPE EXISTING LCW LINE UP TO RRPB FOR FUMEHOOD WASHDOWN.
 - RUN NEW 508 THW AND THRM LINE RE-CIRC.
 - CONNECT TO EXISTING THW LINE AND THRM LOOP-NEW BUILDING RE-CIRC LINE.
 - CONNECT EXISTING CONSOLIDATION RE-CIRC LINE TO NEW BUILDING RE-CIRC LINE.
 - RE-INSTALL GRILLES INTO NEW WASHROOM CEILING.
 - CONTRACTOR TO PROVIDE ANY NECESSARY RE-SEAT EXISTING FLOOR DRAIN TO MATCH EXISTING NEW ELEVATION. CONTRACTOR TO INSTALL NEW DOWNCOMES IN NEW WASHROOM. CONTRACTOR TO PROVIDE ANY NECESSARY RE-INSTALLATION OF ANY OTHER COMPONENTS INSTALLED IN THE CEILING, (IE. SENSORS).
 - INSTALL PIPE WELL COMPLETE WITH ISOLATION VALVE FOR FUTURE IMMERSION TEMPERATURE SENSOR.

- GENERAL NOTES:**
- REFER TO SCHEMATIC DWGS FOR WORK DETAILS ON VAKING, AND PIPING ARRANGEMENT.
 - WHERE POSSIBLE CONTRACTOR TO FOLLOW PREVIOUS ROUTING, RE-USE WALL CHASE SPACE WHERE POSSIBLE.
 - WHERE CONCEALED PIPING IS IN ACCESSIBLE SPACE.
 - CONTRACTOR TO RE-FEED WATER LINES FROM CEILING SPACE.
 - IN GENERAL, ALL MAIN BRANCHES & LINE ISOLATION (IAS) SHALL BE OPEN POSSIBLE.
 - COORDINATE WITH OWNER INSTALLATION OF ALL ACCESS VALVES IN CONCEALED SPACES.
 - ALL NEW RISERS SHALL HAVE ISOLATION VALVES ON EACH FLOOR.
 - RELOCATEMENT OF EXISTING PIPING SERVING FUME HOOD.
 - ATMOSPHERIC VACUUM BREAKER & FUME HOOD FAUCET COORDINATE WITH DEPARTMENT/PREFERRED RUN LOCATIONS WITH IN FUME HOOD ENCLOSURE.
 - ALL VALVES TO BE INSTALLED IN CEILING SPACE OF OFFICE SPACE (NOTE DIRECTLY LOCATED ABOVE WORK STATION).
 - PROVIDE CIRCUIT BALANCING VALVES AND CHECK VALVES ON ALL RE-CIRC BRANCHES.
 - ALL PRESS REGULATING GILL HEIGHTS SHALL TO BE SIZED AND FINE STOPPED.



LEVEL 2 PLAN - NEW