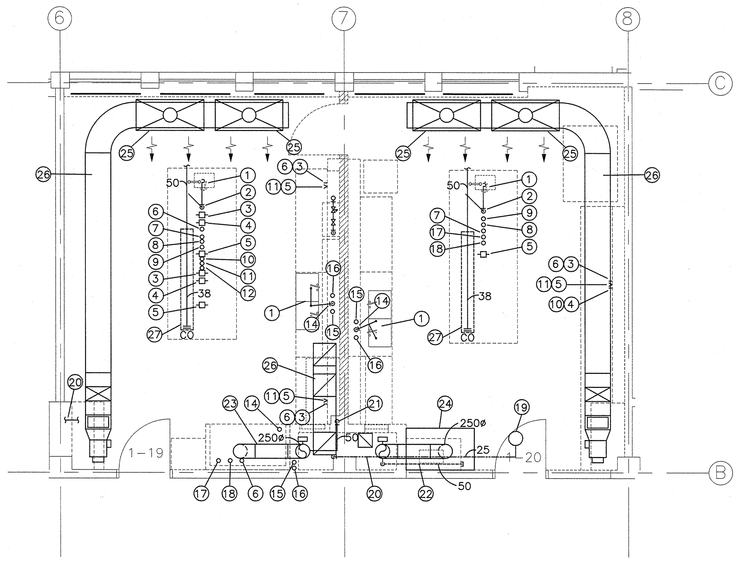
MECHANICAL DEMOLITION NOTES

1. REMOVE EXISTING SINK INCLUDING TRIM AND EMERGENCY EYEWASH (IF EQUIPPED).
2. REMOVE EXISTING GLASS DRAINAGE PIPING BACK TO ABOVE FLOOR AND PERMANENTLY CAP.
3. REMOVE EXISTING BENCH TOP GAS VALVE.
4. REMOVE EXISTING BENCH TOP VACUUM VALVE.
5. REMOVE EXISTING BENCH TOP COMPRESSED AIR VALVE.
6. REMOVE EXISTING BLACK IRON GAS PIPING TO BELOW FLOOR LEVEL AND PERMANENTLY CAP. INFILL FLOOR PENETRATION WITH NON SHRINK FIRE STOPPING.
7. REMOVE EXISTING DOMESTIC HOT WATER PIPING BACK TO ISOLATION VALVE AND PERMANENTLY CAP.
8. REMOVE EXISTING DOMESTIC COLD WATER PIPING BACK TO ISOLATION VALVE AND PERMANENTLY CAP.
9. REMOVE EXISTING TEMPERED WATER PIPING BACK TO ISOLATION VALVE AND PERMANENTLY CAP.
10. REMOVE EXISTING VACUUM PIPING AND PROVIDE ISOLATION VALVE NEAR FLOOR PENETRATION.
11. REMOVE EXISTING COMPRESSED AIR PIPING AND PROVIDE ISOLATION VALVE NEAR FLOOR PENETRATION.
12. REMOVE EXISTING BLACK IRON PIPING TO BELOW FLOOR LEVEL AND PERMANENTLY CAP. INFILL FLOOR PENETRATION WITH NON SHRINK FIRE STOPPING.
13. REMOVE EXISTING DOMESTIC COLD WATER PIPING, ISOLATION VALVE, PRESSURE REDUCING VALVE, AND FILTER SYSTEM.
14. REMOVE EXISTING GLASS DRAINAGE PIPING BACK TO ABOVE FLOOR AND TEMPORARILY CAP.
15. REMOVE EXISTING DOMESTIC COLD WATER PIPING BACK TO ABOVE FLOOR AND TEMPORARILY CAP.
16. REMOVE EXISTING DOMESTIC HOT WATER PIPING BACK TO ABOVE FLOOR AND TEMPORARILY CAP.
17. REMOVE EXISTING COMPRESSED AIR PIPING BACK TO ISOLATION VALVE.
18. REMOVE EXISTING VACUUM PIPING BACK TO ISOLATION VALVE.
19. REMOVE EXISTING RECESSED CEILING EMERGENCY SHOWER UNIT AND TEMPORARILY CAP PIPING.
20. APPROXIMATE LOCATION OF EXISTING TEMPERED WATER PIPING.
21. EXISTING SAFETY CABINET VENT PIPING TO BE REMOVED UP TO BULKHEAD AND CAPPED.
22. EXISTING SAFETY CABINET VENT PIPING TO BE REMOVED BACK TO BULKHEAD AND CAPPED.
23. EXISTING FUME HOOD TO BE REMOVED. TEMPORARILY CAP EXISTING 250mmø STAINLESS STEEL EXHAUST DUCT. REMOVE ALL PIPED SERVICES BACK TO ISOLATION VALVES OR TO FLOOR AND CAP. GAS PIPING TO BE REMOVED TO BELOW FLOOR AS PER NOTE 6. ANY CONTROLLERS OR CONTROL SENSORS FOR HOOD TO BE SET ASIDE FOR FUTURE HOOD.
24. EXISTING STAINLESS STEEL EXHAUST HOOD TO BE REMOVED. TEMPORARILY CAP EXISTING 250mmø STAINLESS STEEL EXHAUST DUCT.
25. EXISTING AIR DIFFUSERS TO BE TEMPORARILY REMOVED AND STORED DURING CONSTRUCTION.
26. TEMPORARILY SUPPORT DUCTWORK DURING REMOVAL OF EXISTING CEILINGS AND PERMANENTLY SUPPORT TO EXISTING ROOF STRUCTURE.
27. REMOVE EXISTING SECTION OF 38mm ACID RESISTANT PIPING UNDER FLOOR.



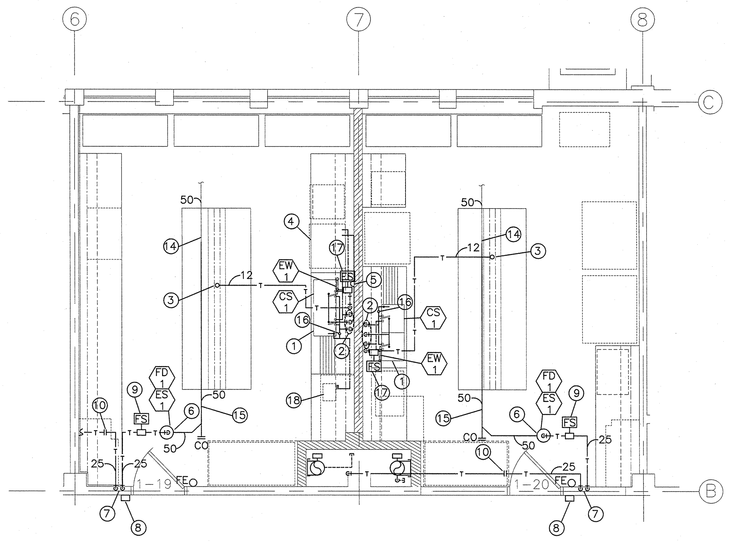
1 M1 LAYOUT – EXISTING MECHANICAL – DEMOLITION
SCALE: 1:50
0m 1m 2m 3m 4m 5m

MECHANICAL LEGEND

PIPE DOWN	
PIPE UP	
DOMESTIC COLD WATER	
DOMESTIC HOT WATER	
CLEAN OUT	
TEMPERED WATER	T
COMPRESSED LAB AIR	A
VACUUM LAB AIR	V
SERVICES CAP	
EXISTING TWO PORT LAB GAS VALVE	
NEW LAB GAS VALVE	
FLOW SWITCH	FS
FIRE EXTINGUISHER	FE

PLUMBING CONSTRUCTION NOTES

1. NEW DOUBLE COMPARTMENT SINK AND TRIM. SINK PROVIDED WITH LABORATORY BENCH WORK. REFER TO PLUMBING FIXTURE SCHEDULE. CONTRACTOR TO SUPPLY AND INSTALL TRIM AND PROVIDE WASTE CONNECTIONS TO SINK.
2. CONNECT WASTE, HOT, AND COLD DOMESTIC WATER TO EXISTING SERVICES IN THIS LOCATION. PROVIDE HOT AND COLD WATER SHUTOFF VALVES.
3. CONNECT TO EXISTING TEMPERED WATER SUPPLY PIPING BELOW FLOOR LEVEL IN THIS APPROXIMATE LOCATION AND RUN NEW TEMPERED WATER SUPPLY PIPE TO THE NEW EMERGENCY EYEWASH UNIT AT SINK.
4. EXISTING GLASSWARE WASHER TO BE CONNECTED TO HOT WATER SUPPLY AND DRAINAGE. PROVIDE SHUTOFF VALVE IN HOT WATER SUPPLY PIPING.
5. PROVIDE TRAPPED STANDPIPE FOR GLASSWARE DRAINAGE.
6. NEW CEILING MOUNTED EMERGENCY SHOWER UNIT. REFER TO PLUMBING FIXTURE SCHEDULE AND INSTALLATION DETAIL.
7. NEW EMERGENCY SHOWER ACTIVATION LEVER CABINET MOUNTED IN WALL. REFER TO INSTALLATION DETAIL.
8. NEW EMERGENCY SHOWER AUDIBLE/VISUAL ALARM UNIT. UNIT WIRING BY DIVISION 26.
9. EMERGENCY SHOWER FLOW SWITCH INSTALLED IN SUPPLY PIPING. SWITCH WIRING BY DIVISION 26.
10. CONNECT TO EXISTING TEMPERED WATER SUPPLY IN THIS APPROXIMATE LOCATION.
11. ALL HOT AND COLD WATER PIPING TO BE INSULATED AS PER SPECIFICATIONS.
12. ALL DRAINAGE PIPING TO BE ACID RESISTANT TYPE. REFER TO SPECIFICATIONS.
13. LABEL VALVES AND PIPING AS PER SPECIFICATIONS.
14. CONNECT TO EXISTING 50mm GLASS DRAINAGE PIPING IN THIS APPROXIMATE AREA.
15. NEW 50mm ACID RESISTANT PIPING TO NEW FLOOR DRAIN. CONNECT IN ANY EXISTING BRANCH DRAINS TO NEW PIPING.
16. NEW INLINE CARTRIDGE FILTER WITH CARBON MEDIA PIPED TO DECK FAUCET.
17. EMERGENCY EYEWASH FLOW SWITCH INSTALLED IN TEMPERED WATER SUPPLY PIPING. SWITCH WIRED BY DIVISION 26.
18. RO WATER SYSTEM. REFER TO DETAIL 2 ON DRAWING M3 FOR WATER SUPPLY AND DRAINAGE DETAILS.



2 M1 LAYOUT – EXISTING/REVISED – PLUMBING
SCALE: 1:50
0m 1m 2m 3m 4m 5m

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEG Newfoundland and Labrador — PERMIT HOLDER
This Permit Allows
CBCL LIMITED
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by PEGNL D0178 which is valid for the year 2016.

REGISTERED PROFESSIONAL ENGINEER — PAUL SCEVIOUR — SIGNATURE — MAR 24, 2016 — DATE — NEWFOUNDLAND & LABRADOR

0	ISSUED FOR TENDER	MAR. 24 2016
revisions		date

A detail no. / no. du detail
B location drawing no. / sur dessin no.
C drawing no. / dessin no.

project / projet
ST. JOHN'S RESEARCH & DEVELOPMENT CENTRE – BLDG 25, BROOKFIELD RD. LAB UPGRADES

drawing / dessin
MECHANICAL DEMOLITION, REVISED PLUMBING LAYOUT, NOTES & LEGEND

designed P. SCEVIOUR — concu
date JANUARY 2016
drawn Z. ROBERTS — dessine
date JANUARY 2016
approved — approuve
date
Tender — Soumission
PWGSC Project Manager — Administrateur de projets TPSGC — May 4/16

project number / no. du projet
R.078141.001

drawing no. / no. du dessin
M1–R0

EDRM Document No. 538855

Plot Scale: AS NOTED
PWGSC B1
0 10 20mm 40 60 80 100 120 140 160 180 200mm