

KEY NOTES

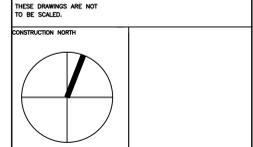
1. PROVIDE 4" F/A DUCT TO SUPPLY VRF INDOOR UNIT, BALANCE TO 80 CFM. CONNECT TO F/A PORT ON VRF UNIT. F/A INTAKE AS SHOWN, INSULATED AS PER MECHANICAL SPECIFICATIONS.
2. PROVIDE 4" F/A DUCT TO SUPPLY VRF INDOOR UNIT, BALANCE TO 50 CFM. CONNECT TO F/A PORT ON VRF UNIT. F/A INTAKE AS SHOWN, INSULATED AS PER MECHANICAL SPECIFICATIONS.
3. PROVIDE NEW ERV IN CEILING SPACE OF KITCHEN. PROVIDE 6" EXHAUST AND 6" F/A INTAKE UP THRU ROOF. EXHAUST AND INTAKE TERMINATIONS TO BE MINIMUM 10 FEET APART.
4. VENT DRYERS THRU WALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. PROVIDE LINT TRAP AND DRYER BOOSTER FAN TO SUIT MANUFACTURERS RECOMMENDATIONS WHERE REQUIRED.
5. EXHAUST VENTING FOR DRYERS, CEILING MOUNTED EXHAUST FAN AND STOVE EXHAUST HOOD OUT THRU WALL.
6. QTY 2, 1" GAS LINES TO SERVE GROUND FLOOR GAS FIRE PLACES AND DRYERS AND SECOND FLOOR GAS FIRE PLACES AND DRYERS

HVAC GENERAL NOTES

1. ALL EXISTING EQUIPMENT, PIPING, ETC. BEING RE-USED SHALL BE INSPECTED AND LOCATED BEFORE AND AFTER DEMOLITION AND PRIOR TO ANY NEW CONSTRUCTION. DETAILS OF PERFORMANCE/CONDITION/SIZING AND LOCATION SHALL BE SUPPLIED TO THE ENGINEER AND OWNER. AIR CAPACITIES FOR ALL SUPPLY AND EXHAUST SYSTEMS SHALL BE MEASURED AT THE GRILLES TO DETERMINE IF DESIGN AIR FLOWS NOTED ON OUR PLANS CAN BE MET. ANY EXTRA WORK AND REQUIRED TO THE ABOVE MENTIONED SHALL BE DETERMINED PRIOR TO NEW CONSTRUCTION. CONTRACTOR TO ALLOW FOR THE INSPECTION IN HIS PRICE INCLUDING X-RAYING, AIR FLOW MEASUREMENT, SCANNING AND CAMERA SCOPE TO EXISTING BURIED DRAINS. NO EXTRAS WILL BE ALLOWED ONCE NEW CONSTRUCTION STARTS.
1. ALL EQUIPMENT AND ASSOCIATED DUCTWORK/GRILLES IS NEW UNLESS OTHERWISE NOTED.
2. UNLESS NOTED ALL SUPPLY AIR GRILLES MOUNTED ON ROUND EXPOSED DUCTWORK SHALL BE POINTED DOWN AT A 45° ANGLE.
3. ALL COUNTER FLASHING OF DUCTS TO CURBS TO BE DONE BY THIS CONTRACTOR. CONTRACTOR SHALL HAND OVER CURBS TO GENERAL CONTRACTOR FOR INSTALLATION BY THEM. NEW DUCTS THROUGH ROOF SHALL BE C/W ROOF CURB. HEIGHT SHALL MATCH EXISTING AND/OR EQUIPMENT ROOF CURBS.
4. PAINTING OF EXPOSED DUCTWORK IS BY OTHERS.
5. FLEXIBLE BRANCH DUCTWORK TO BE MAXIMUM 10FT IN LENGTH. FLEXIBLE SHALL NOT BE USED IN RESIDENTIAL.
6. UNDERCUT DOORS FOR ALL WASHROOMS.
7. REFER TO EQUIPMENTS SCHEDULE FOR ALL INITIAL DUCT DROP SIZES FOR SPECIFIED EQUIPMENT ON ROOF.
8. ALL INTERIOR EXPOSED OPEN ENDED DUCTS TO BE FINISHED OFF WITH WIRE MESH.
9. WHERE APPLICABLE ALL CONDENSEABLE OPEN ENDED DUCTS AND EXTERIOR LOUVERES TERMINATING TO THE EXTERIOR SHALL BE C/W 1/2" X 1" GALVANIZED WIRE MESH BIRD SCREENS AND B/D/D OR MOTORIZED DAMPER WHERE SPECIFIED AND BE ACCESSIBLE FOR CLEANING.
10. ALL MOTORIZED DAMPERS ARE C/W END SWITCHES UNLESS NOTED.
11. ALL EXTERIOR LOUVERES AND VENT OPENINGS MUST BE MIN. 24" ABOVE FINISHED GRADE. ADJUST OPENING LOCATIONS OR MODIFY GRADE AS REQUIRED.
12. ALL DUCTWORK SHALL CONFORM TO ASHRAE. ALL DUCTWORK SHALL BE CONSTRUCTED, INSTALLED AND SEALED AND PRESSURE TESTED AS DETAILED IN THE SMCMA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. CONTRACTOR TO SEAL DUCT WITH ZERO VOC DUCT SEALANT. WHERE DUCTWORK IS EXPOSED SEAL WITH CLEAR SILICONE.
13. RADIUS OF ELBOW SHALL BE AT LEAST 1.5 TIMES THE WIDTH OF THE DUCT. WHERE A RADIUS IS NOT POSSIBLE TURNING ANGLES MUST BE INTRODUCED.
14. MOUNTING HEIGHT OF GRILLES IN OPEN CEILING SHALL BE 10" A.F.F. (UNLESS OTHERWISE NOTED)

NO.	DATE	DESCRIPTION
6	DEC/14/2018	ISSUED FOR CONSTRUCTION
5	JUL/13/2018	ISSUED FOR PERMIT
4	JUN/22/2018	UPDATED COORDINATION SET
3	JUN/11/2018	UPDATED COORDINATION SET
2	JUN/04/2018	ISSUED FOR COORDINATION
1	APR/27/2018	PRELIMINARY ISSUE FOR REVIEW

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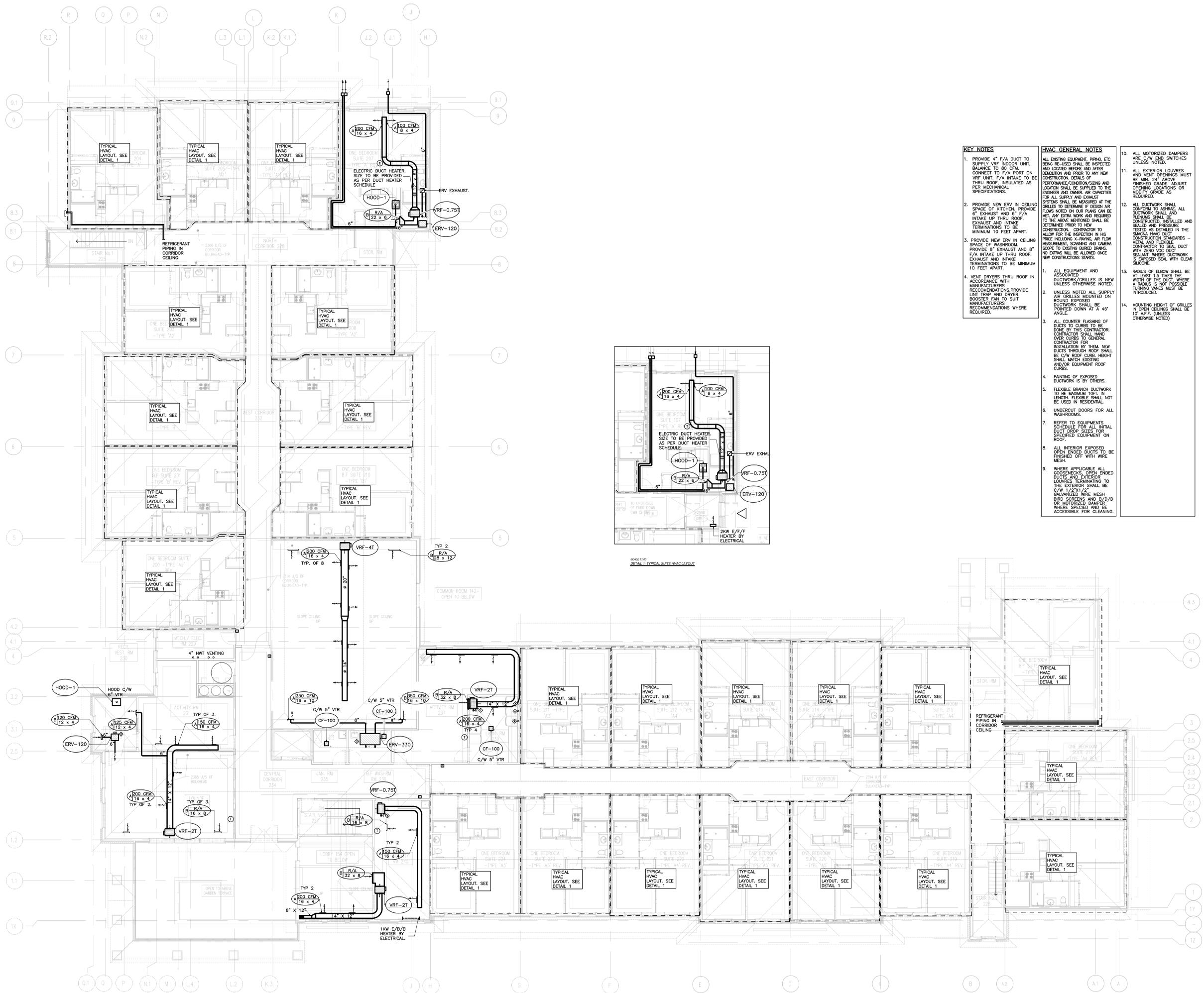


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100 MCKAY STREET

CANNINGTON ONTARIO
MECHANICAL
PROJECT NO. 18-660
DRAWING TITLE
GROUND FLOOR PLAN HVAC LAYOUT

DATE: 2018
DRAWN BY: AL
SCALE: 1:100
M-1
OF 8

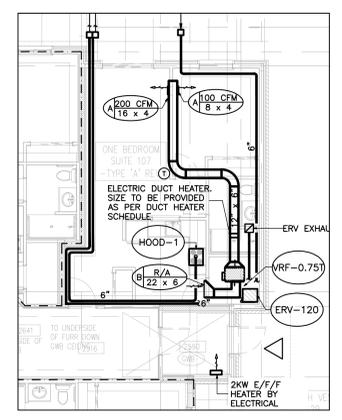


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2. PROVIDE NEW ERV IN CEILING SPACE OF KITCHEN. PROVIDE 6" EXHAUST AND 6" F/A INTAKE UP THRU ROOF. EXHAUST AND INTAKE TERMINATIONS TO BE MINIMUM 10 FEET APART.
3. PROVIDE NEW ERV IN CEILING SPACE OF WASHROOM. PROVIDE 6" EXHAUST AND 6" F/A INTAKE UP THRU ROOF. EXHAUST AND INTAKE TERMINATIONS TO BE MINIMUM 10 FEET APART.
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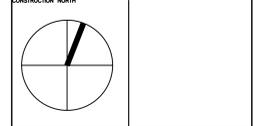
SCALE: 1/8" = 1'-0"
DETAIL 1: TYPICAL SUITE HVAC LAYOUT

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1	APR/27/2018	PRELIMINARY ISSUE FOR REVIEW

THIS DRAWING SHALL BE USED ONLY FOR THE PURPOSE INDICATED IN THE LATEST ISSUED COLUMN ABOVE.

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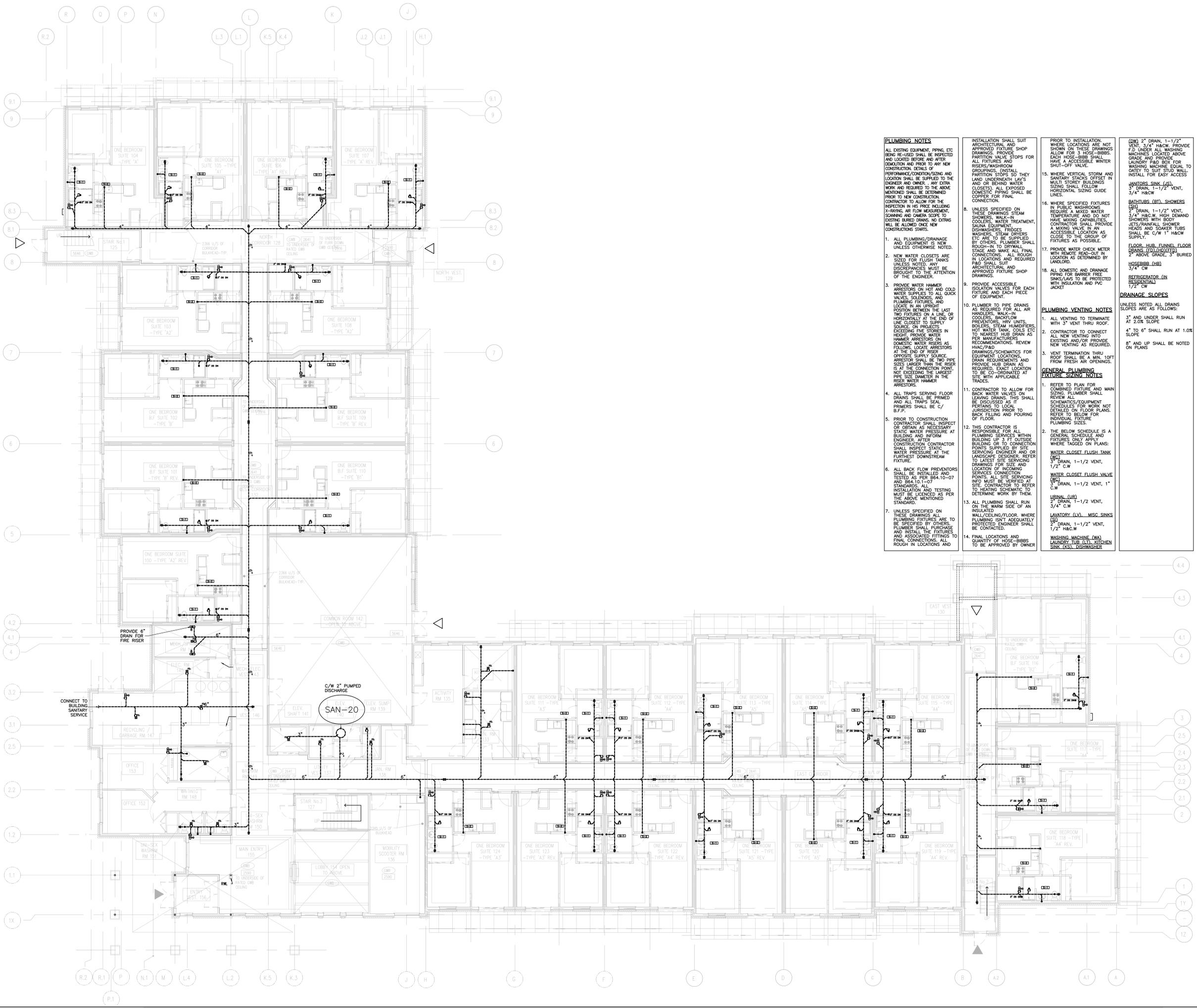
SENIORS RESIDENCE
100 MCKAY STREET

CANNINGTON ONTARIO
MECHANICAL

PLUG DATE PROJECT NO. 18-660
DRAWING TITLE

SECOND FLOOR PLAN
HVAC LAYOUT

DATE 2018
DRAWN BY AL M-2
SCALE 1:100 OF 8



PLUMBING NOTES

ALL EXISTING EQUIPMENT, PIPING, ETC. BEING RE-USED SHALL BE INSPECTED AND LOCATED BEFORE AND AFTER REMOVAL AND PRIOR TO ANY NEW CONSTRUCTION. DETAILS OF PERFORMANCE/CONDITION/SIZING AND LOCATION SHALL BE SUPPLIED TO THE ENGINEER AND OWNER. ANY EXTRA WORK AND REQUIRED TO THE ABOVE MENTIONED SHALL BE DETERMINED PRIOR TO NEW CONSTRUCTION. CONTRACTOR TO ALLOW FOR THE INSPECTION IN HIS PRICE, INCLUDING X-RAYING, AIR FLOW MEASUREMENT, SCANNING AND CAMERA SCOPE TO EXISTING BURIED DRAINS. NO DRAINS WILL BE ALLOWED ONCE NEW CONSTRUCTION STARTS.

1. ALL PLUMBING/DRAINAGE AND EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
2. NEW WATER CLOSETS ARE SIZED FOR FLUSH TANKS UNLESS NOTED. ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. PROVIDE WATER HAMMER ARRESTORS ON HOT AND COLD WATER SUPPLIES TO ALL QUICK VALVES, SILENCERS, AND PLUMBING FIXTURES, AND LOCATE IN AN UPRIGHT POSITION BETWEEN THE LAST TWO FIXTURES ON A LINE, OR HORIZONTALLY AT THE END OF LINE CLOSEST TO SUPPLY SOURCE. ON PROJECTS EXCEEDING FIVE STORES IN HEIGHT, PROVIDE WATER HAMMER ARRESTORS ON DOMESTIC WATER RISERS AS FOLLOWS: LOCATE ARRESTORS AT THE END OF RISER OPPOSITE SUPPLY SOURCE. ARRESTOR SHALL BE TWO PIPE SIZES LARGER THAN THE RISER IS AT THE CONNECTION POINT, NOT EXCEEDING THE LARGEST PIPE SIZE DIAMETER IN THE RISER WATER HAMMER ARRESTORS.
4. ALL TRAPS SERVING FLOOR DRAINS SHALL BE PRIMED AND ALL TRAPS SEAL. PRIMERS SHALL BE C/ B.F.P.
5. PRIOR TO CONSTRUCTION CONTRACTOR SHALL INSPECT OR OBTAIN AS NECESSARY STATIC WATER PRESSURE AT BUILDING AND INFORM ENGINEER. AFTER CONSTRUCTION CONTRACTOR SHALL INSPECT STATIC WATER PRESSURE AT THE FURTHEST DOWNSTREAM FIXTURE.
6. ALL BACK FLOW PREVENTORS SHALL BE INSTALLED AND TESTED AS PER B64.10-07 AND B64.10.1-07 STANDARDS. ALL INSTALLATION AND TESTING MUST BE LICENSED AS PER THE ABOVE MENTIONED STANDARD.
7. UNLESS SPECIFIED ON THESE DRAWINGS ALL PLUMBING FIXTURES ARE TO BE SPECIFIED BY OTHERS. PLUMBER SHALL PURCHASE AND INSTALL THE FIXTURES AND ASSOCIATED FITTINGS TO FINAL CONNECTIONS. ALL ROUGH IN LOCATIONS AND

INSTALLATION SHALL SUIT ARCHITECTURAL AND APPROVED FIXTURE SHOP DRAWINGS. PROVIDE PARTITION VALVE STOPS FOR ALL FIXTURES AND RISERS/WASHROOM GROUPINGS. (INSTALL PARTITION STOPS SO THEY LAND UNDER/BEHIND WATER CLOSURES). ALL EXPOSED DOMESTIC PIPING SHALL BE COPPER FOR FINAL CONNECTION.

8. UNLESS SPECIFIED ON THESE DRAWINGS STEAM SHOWERS, WALK-IN COOLERS, WATER TREATMENT, SAUNA EQUIPMENT, DISHWASHERS, FRIDGES, WASHERS, STEAM DRYERS ETC ARE TO BE SUPPLIED BY OTHERS. PLUMBER SHALL BUY-IN TO DRYWALL STOPS AND MAKE ALL FINAL CONNECTIONS. ALL ROUGH IN LOCATIONS AND REQUIRED P&D SHALL SUIT ARCHITECTURAL AND APPROVED FIXTURE SHOP DRAWINGS.
9. PROVIDE ACCESSIBLE ISOLATION VALVES FOR EACH FIXTURE AND EACH PIECE OF EQUIPMENT.
10. PLUMBER TO PIPE DRAINS AS REQUIRED FOR ALL AIR HANDLERS, WALK-IN COOLERS, BACKFLOW PREVENTERS, HWY UNITS, BOILERS, STEAM HUMIDIFIERS, HOT WATER TANK COILS ETC TO NEAREST HUB DRAIN AS PER MANUFACTURER'S RECOMMENDATIONS. REVIEW HVAC/R/FES DRAWINGS/SCHEMATICS FOR EQUIPMENT LOCATIONS. PROVIDE HUB DRAIN AS REQUIRED. EXACT LOCATION TO BE CO-ORDINATED AT SITE WITH APPLICABLE TRADES.
11. CONTRACTOR TO ALLOW FOR BACK WATER VALVES ON LEAVING DRAINS. THIS SHALL BE DISCUSSED AS IT PERTAINS TO LOCAL JURISDICTION PRIOR TO BACK FILLING AND POURING OF FLOOR.
12. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING SERVICES WITHIN BUILDING UP 3 FT OUTSIDE BUILDING OR TO CONNECTION POINTS SUPPLIED BY SITE SERVICING ENGINEER AND OR LANDSCAPE DESIGNER. REFER TO LATEST SITE SERVICING DRAWINGS FOR SIZE AND LOCATION OF INCOMING SERVICES AND CONNECTION POINTS. ALL SITE SERVICING INFO MUST BE VERIFIED AT SITE. CONTRACTOR TO REFER TO HEATING SCHEMATIC TO DETERMINE WORK BY THEM.
13. ALL PLUMBING SHALL RUN ON THE WARM SIDE OF AN INSULATED WALL/CEILING/FLOOR, WHERE PLUMBING IS NOT ADEQUATELY PROTECTED ENGINEER SHALL BE CONTACTED.
14. FINAL LOCATIONS AND QUANTITY OF HOSE-BIBBS TO BE APPROVED BY OWNER

PLUMBING VENTING NOTES

1. ALL VENTING TO TERMINATE WITH 3" VENT THRU ROOF.
2. CONTRACTOR TO CONNECT ALL NEW VENTING INTO EXISTING AND/OR PROVIDE NEW VENTING AS REQUIRED.
3. VENT TERMINATION THRU ROOF SHALL BE A MIN. 10FT FROM FRESH AIR OPENINGS.

GENERAL PLUMBING FIXTURE SIZING NOTES

1. REFER TO PLAN FOR COMBINED FIXTURE AND MAIN SIZING. PLUMBER SHALL REVIEW ALL SCHEMATICS/EQUIPMENT SCHEDULES FOR WORK NOT DETAILED ON FLOOR PLANS. REFER TO BELOW FOR INDIVIDUAL FIXTURE PLUMBING SIZES.
2. THE BELOW SCHEDULE IS A GENERAL SCHEDULE AND FIXTURES ONLY APPLY WHERE TAGGED ON PLANS:

WATER CLOSET FLUSH TANK (WC)
 3" DRAIN, 1-1/2" VENT, 1/2" C/W

WATER CLOSET FLUSH VALVE (WFV)
 3" DRAIN, 1-1/2" VENT, 1" C/W

URINAL (UR)
 2" DRAIN, 1-1/2" VENT, 3/4" C/W

LAVATORY (LV), MISC SINKS (SI)
 2" DRAIN, 1-1/2" VENT, 1/2" H&C/W

WASHING MACHINE (WA)
 LAUNDRY TUB (LT), KITCHEN SINK (KS), DISHWASHER

PRIOR TO INSTALLATION: WHERE LOCATIONS ARE NOT SHOWN ON THESE DRAWINGS, ALLOW FOR 3 HOSE-BIBBS. EACH HOSE-BIBB SHALL HAVE A ACCESSIBLE WINTER SHUT-OFF VALVE.

15. WHERE VERTICAL STORM AND SANITARY STACKS OFFSET IN MULTI STOREY BUILDINGS SIZING SHALL FOLLOW HORIZONTAL SIZING GUIDE LINES.
16. WHERE SPECIFIED FIXTURES IN PUBLIC WASHROOMS REQUIRE A MIXED WATER TEMPERATURE AND DO NOT HAVE MIXING CAPABILITIES, CONTRACTOR SHALL PROVIDE A MIXING VALVE IN AN ACCESSIBLE LOCATION AS CLOSE TO THE GROUP OF FIXTURES AS POSSIBLE.
17. PROVIDE WATER CHECK METER WITH REMOTE READ-OUT IN LOCATION AS DETERMINED BY LANDLORD.
18. ALL DOMESTIC AND DRAINAGE PIPING FOR BARBER FREE SINKS/LAVS TO BE PROTECTED WITH INSULATOR AND PVC JACKET

(DW) 2" DRAIN, 1-1/2" VENT, 3/4" H&C/W. PROVIDE F.D UNDER ALL WASHING MACHINES LOCATED ABOVE GRADE AND PROVIDE LAUNDRY P&D BOX FOR WASHING MACHINE EQUAL TO DATE TO SUIT STUD WALL. INSTALL FOR EASY ACCESS

WASHROOM SINK (WS)
 3" DRAIN, 1-1/2" VENT, 3/4" H&C/W

BATHROOM (BT), SHOWERS (SH)
 2" DRAIN, 1-1/2" VENT, 3/4" H&C/W. HIGH DEMAND SHOWERS WITH BODY JETS/RAINFALL SHOWER HEADS AND SOAKER TUBS SHALL BE C/W 1" H&C/W SUPPLY.

FLOOR-HUB FUNNEL FLOOR DRAINS (FD)(HFD)
 2" ABOVE GRADE, 3" BURIED

HOSEBIBB (HB)
 3/4" CW

REFRIGERATOR (IN RESIDENTIAL)
 1/2" CW

DRAINAGE SLOPES

UNLESS NOTED ALL DRAINS SLOPES ARE AS FOLLOWS:

3" AND UNDER SHALL RUN AT 2.0% SLOPE

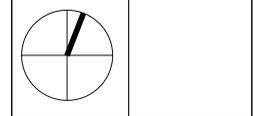
4" TO 6" SHALL RUN AT 1.0% SLOPE

8" AND UP SHALL BE NOTED ON PLANS

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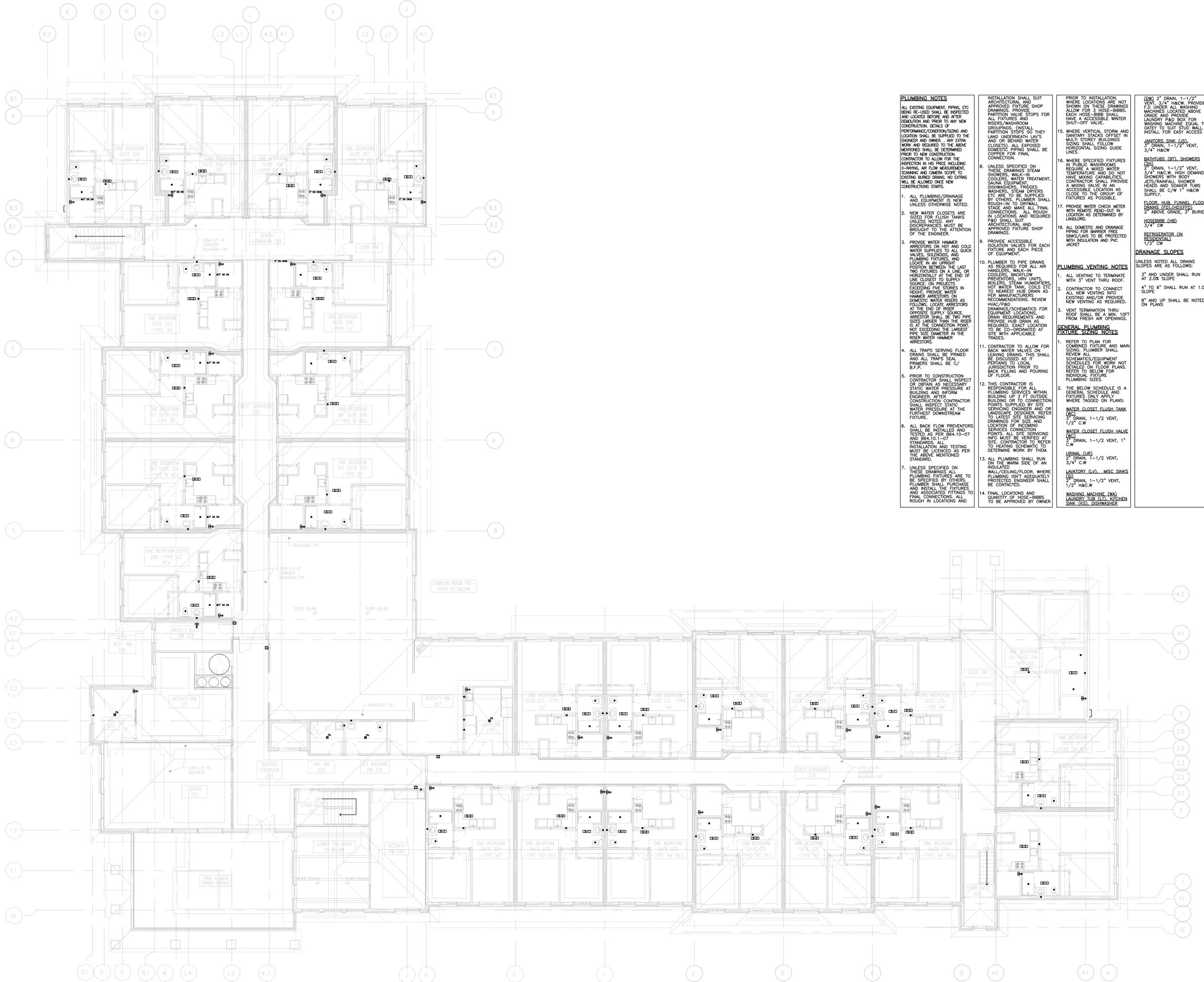
CANNINGTON ONTARIO

MECHANICAL

PROJECT NO. 18-660

GROUND FLOOR PLAN
 DRAINAGE LAYOUT

DATE: 2018
 DRAWN BY: AL
 SCALE: 1:100
 M-3
 OF 8



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14. FINAL LOCATIONS AND QUANTITY OF HOSE-BIBBS TO BE APPROVED BY OWNER

PRIOR TO INSTALLATION, WHERE LOCATIONS ARE NOT SHOWN ON THESE DRAWINGS ALLOW FOR 3 HOSE-BIBBS. EACH HOSE-BIBB SHALL HAVE AN ACCESSIBLE WINTER SHUT-OFF VALVE.

15. WHERE VERTICAL STORM AND SANITARY STACKS OFFSET IN MULTI STOREY BUILDINGS SIZING SHALL FOLLOW HORIZONTAL SIZING GUIDE LINES.
16. WHERE SPECIFIED FIXTURES IN PUBLIC WASHROOMS REQUIRE A MIXED WATER TEMPERATURE AND DO NOT HAVE MIXING CAPABILITIES, CONTRACTOR SHALL PROVIDE AN ACCESSIBLE LOCATION AS CLOSE TO THE GROUP OF FIXTURES AS POSSIBLE.
17. PROVIDE WATER CHECK METER WITH REMOTE READ-OUT IN LOCATION AS DETERMINED BY LANDLORD.
18. ALL DOMESTIC AND DRAINAGE PIPING FOR BARRIER FREE SINKS/LAVS TO BE PROTECTED WITH INSULATION AND PVC JACKETS.

PLUMBING VENTING NOTES

1. ALL VENTING TO TERMINATE WITH 3" VENT THRU ROOF.
2. CONTRACTOR TO CONNECT ALL NEW VENTING INTO EXISTING AND/OR PROVIDE NEW VENTING AS REQUIRED.
3. VENT TERMINATION THRU ROOF SHALL BE A MIN. 10FT FROM FRESH AIR OPENINGS.

GENERAL PLUMBING FIXTURE SIZING NOTES

1. REFER TO PLAN FOR COMBINED FIXTURE AND MAIN SIZING. PLUMBER SHALL REVIEW ALL SCHEMATICS/EQUIPMENT SCHEDULES FOR WORK NOT DETAILED ON FLOOR PLANS. REFER TO BELOW FOR INDIVIDUAL FIXTURE PLUMBING SIZES.
2. THE BELOW SCHEDULE IS A GENERAL SCHEDULE AND FIXTURES ONLY APPLY WHERE TAGGED ON PLANS:

WATER CLOSET FLUSH TANK (WC)
 3" DRAIN, 1-1/2" VENT, 1/2" C.W.

WATER CLOSET FLUSH VALVE (WC)
 3" DRAIN, 1-1/2" VENT, 1" C.W.

URINAL (UR)
 2" DRAIN, 1-1/2" VENT, 3/4" C.W.

LAVATORY (LV), MISC SINKS (S)
 2" DRAIN, 1-1/2" VENT, 1/2" H&C.W.

WASHING MACHINE (WA)
 LAUNDRY TUB (LT), KITCHEN SINK (KS), DISHWASHER

(DW) 2" DRAIN, 1-1/2" VENT, 3/4" H&C.W. PROVIDE F3 UNDER ALL WASHING MACHINES LOCATED ABOVE GRADE AND PROVIDE LAUNDRY P&ID BOX FOR WASHING MACHINE EQUAL TO GATEY TO SUIT STUD WALL. INSTALL FOR EASY ACCESS.

JANITORS SINK (JS)
 3" DRAIN, 1-1/2" VENT, 3/4" H&C.W.

BATHTUBS (BT), SHOWERS (SH)
 2" DRAIN, 1-1/2" VENT, 3/4" H&C.W. HIGH DEMAND SHOWERS WITH BODY JETS/RAINFALL SHOWER HEADS AND SOAKER TUBS SHALL BE C/W 1" H&C.W. SUPPLY.

FLOOR HUB DRAINAGE FLOOR DRAINS (FD), (HDFD)
 2" ABOVE GRADE, 3" BURIED

HOSEBIBB (HB)
 3/4" CW

REFRIGERATOR (IN RESIDENTIAL)
 1/2" CW

DRAINAGE SLOPES

UNLESS NOTED ALL DRAINS SLOPES ARE AS FOLLOWS:

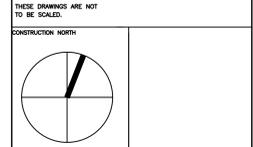
3" AND UNDER SHALL RUN AT 2.0% SLOPE

4" TO 6" SHALL RUN AT 1.0% SLOPE

8" AND UP SHALL BE NOTED ON PLANS

NO.	DATE	DESCRIPTION
6	DEC/14/2018	ISSUED FOR CONSTRUCTION
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3	JAN/11/2018	UPDATED COORDINATION SET
2	JUN/04/2018	ISSUED FOR COORDINATION
1	APR/27/2018	PRELIMINARY ISSUE FOR REVIEW

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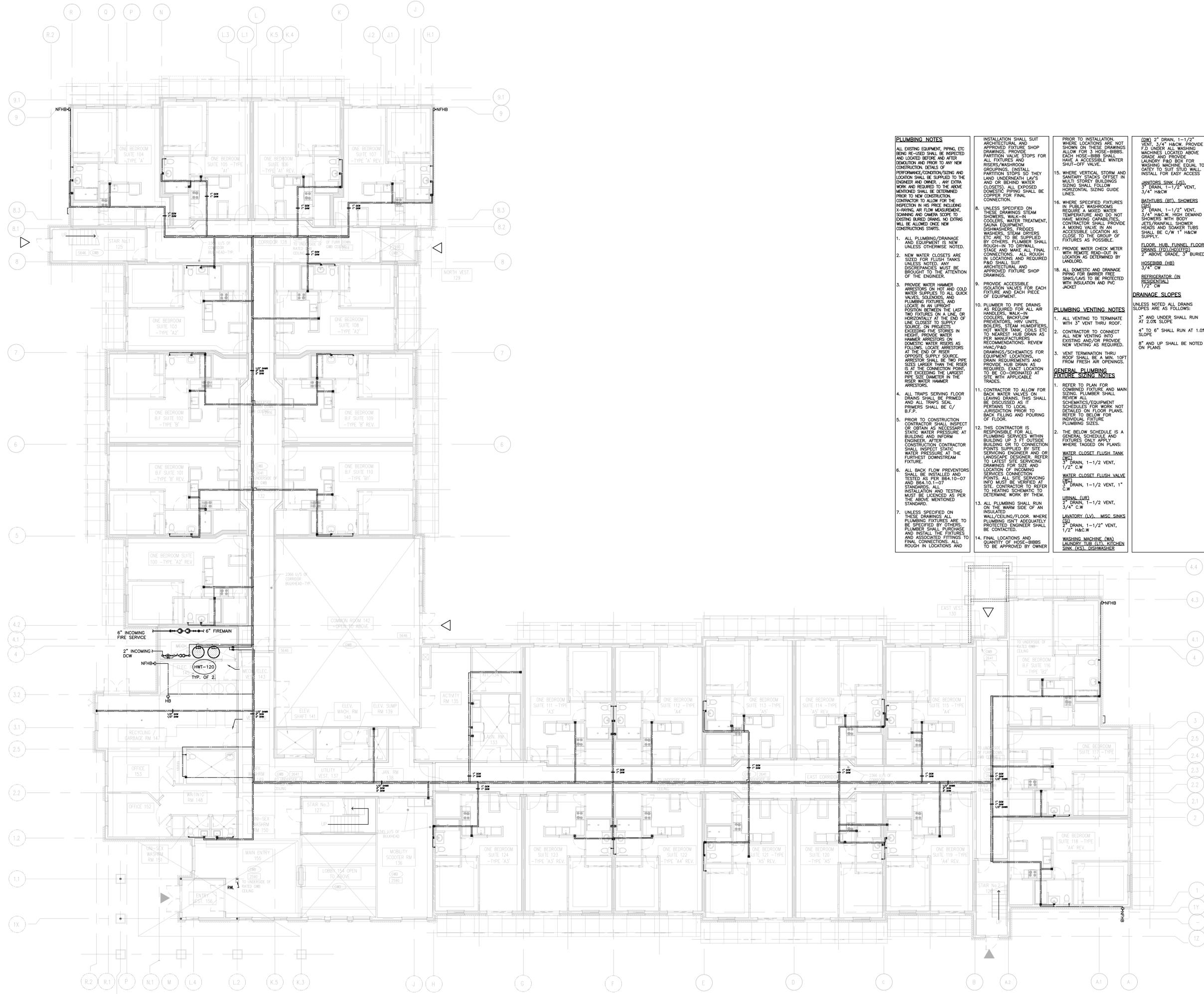
CANNINGTON ONTARIO

MECHANICAL

PLG DATE	PROJECT NO.
	18-660

SECOND FLOOR PLAN
 DRAINAGE LAYOUT

DATE	2018
DRAWN BY	AL
SCALE	1:100
	M-4
	OF 8



PLUMBING NOTES

ALL EXISTING EQUIPMENT, PIPING, ETC. BEING RE-USED SHALL BE INSPECTED AND LOCATED BEFORE AND AFTER DEMOLITION AND PRIOR TO ANY NEW CONSTRUCTION. DETAILS OF PERFORMANCE/CONDITION/SIZING AND LOCATION SHALL BE SUPPLIED TO THE ENGINEER AND OWNER. NEW WORK AND REQUIRED TO THE ABOVE MENTIONED SHALL BE DETERMINED PRIOR TO NEW CONSTRUCTION. CONTRACTOR TO ALLOW FOR THE INSPECTION IN HIS PRICE INCLUDING X-RAYING, AIR FLOW MEASUREMENT, SCANNING AND CAMERA SCOPE TO THE MENTIONED SHALL BE DETERMINED PRIOR TO NEW CONSTRUCTION.

1. ALL PLUMBING/DRAINAGE AND EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
2. NEW WATER CLOSETS ARE SIZED FOR FLUSH TANKS UNLESS NOTED. ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. PROVIDE WATER HAMMER ARRESTORS ON HOT AND COLD WATER SUPPLIES TO ALL QUICK VALVES, SOLENOIDS, AND PLUMBING FIXTURES. LOCATE IN AN UPRIGHT POSITION BETWEEN THE LAST TWO FIXTURES ON A LINE, OR HORIZONTAL/VERTICAL AS THE END OF LINE CLOSEST TO SUPPLY SOURCE. ON PROJECTS EXCEEDING FIVE STORIES IN HEIGHT, PROVIDE WATER HAMMER ARRESTORS ON DOMESTIC WATER RISERS AS FOLLOWS: LOCATE ARRESTORS AT THE END OF RISER OPPOSITE SUPPLY SOURCE. ARRESTOR SHALL BE TWO PIPE SIZES LARGER THAN THE RISER IS AT THE CONNECTION POINT. NOT EXCEEDING THE LARGEST PIPE SIZE DIAMETER IN THE RISER WATER HAMMER ARRESTORS.
4. ALL TRAPS SERVING FLOOR DRAINS SHALL BE PRIMED AND ALL TRAPS SEAL PRIMERS SHALL BE C/ B.F.P.
5. PRIOR TO CONSTRUCTION CONTRACTOR SHALL INSPECT OR OBTAIN AS NECESSARY STATIC WATER PRESSURE AT BUILDING AND INFORM ENGINEER. AFTER CONSTRUCTION CONTRACTOR SHALL INSPECT STATIC WATER PRESSURE AT THE FURTEST DOWNSTREAM FIXTURE.
6. ALL BACK FLOW PREVENTORS SHALL BE INSTALLED AND TESTED AS PER 864.10-07 AND 864.101-07 STANDARDS. ALL INSTALLATION AND TESTING MUST BE LICENSED AS PER THE ABOVE MENTIONED STANDARD.
7. UNLESS SPECIFIED ON THESE DRAWINGS, ALL PLUMBING FIXTURES ARE TO BE SPECIFIED BY OTHERS. PLUMBER SHALL PURCHASE AND INSTALL THE FIXTURES AND ASSOCIATED FITTINGS TO FINAL CONNECTIONS. ALL ROUGH IN LOCATIONS AND

INSTALLATION SHALL SUIT ARCHITECTURAL AND APPROVED FIXTURE SHOP DRAWINGS. PROVIDE PARTITION VALVE STOPS FOR ALL FIXTURES AND RISERS/WASHROOM GROUPINGS. (INSTALL PARTITION STOPS SO THEY LAND UNDERNEATH LAV'S AND/OR BEHIND WATER CLOSETS). ALL EXPOSED DOMESTIC PIPING SHALL BE COPPER FOR FINAL CONNECTION.

8. UNLESS SPECIFIED ON THESE DRAWINGS, STEAM SHOWERS, WALK-IN COOLERS, WATER TREATMENT, SAUNA EQUIPMENT, DISHWASHERS, FRIDGES, WASHERS, STEAM DRYERS ETC. ARE TO BE SUPPLIED BY OTHERS. PLUMBER SHALL ROUGH-IN TO DRYWALL STAGE AND MAKE ALL FINAL CONNECTIONS. ALL ROUGH IN LOCATIONS AND REQUIRED APPROVED FIXTURE SHOP DRAWINGS.
9. PROVIDE ACCESSIBLE ISOLATION VALVES FOR EACH RISER AND EACH PIECE OF EQUIPMENT.
10. PLUMBER TO PIPE DRAINS AS REQUIRED FOR ALL AIR HANDLERS, WALK-IN PREVENTORS, HRV UNITS, BOILERS, STEAM HEATERS, HOT WATER TANK, COILS ETC TO NEAREST DRAIN AS PER MANUFACTURER'S RECOMMENDATIONS. REVIEW HVAC/MECH DRAWINGS/SCHEMATICS FOR EQUIPMENT AND DRAIN REQUIREMENTS AND PROVIDE HUB DRAWING REQUIRED. EXACT LOCATION TO BE CO-ORDINATED AT SITE WITH APPLICABLE TRADES.
11. CONTRACTOR TO ALLOW FOR COMBINED FIXTURE AND BACK WATER VALVES ON LEAVING DRAINS. THIS SHALL BE DISCUSSED AS IT PERTAINS TO LOCAL JURISDICTION PRIOR TO BACK FILLING AND POURING OF FLOOR.
12. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING SERVICES WITHIN BUILDING UP TO 3 FT OUTSIDE BUILDING OR TO CONNECTION POINTS SUPPLIED BY SITE SERVING ENGINEER AND OR LANDSCAPE DESIGNER. REFER LATEST SITE SERVING SERVICES CONNECTION POINTS. ALL SITE SERVING INFO MUST BE VERIFIED AT SITE. CONTRACTOR TO REFER TO HEATING SCHEMATIC TO DETERMINE WORK BY THEM.
13. ALL PLUMBING SHALL RUN ON THE WARM SIDE OF AN INSULATED WALL/CELING/FLOOR. WHERE PLUMBING IS NOT ADEQUATELY PROTECTED ENGINEER SHALL BE CONTACTED.
14. FINAL LOCATIONS AND QUANTITY OF HOSE-BIBBS TO BE APPROVED BY OWNER

PLUMBING VENTING NOTES

1. ALL VENTING TO TERMINATE WITH 3" VENT THRU ROOF.
2. CONTRACTOR TO CONNECT ALL NEW VENTING INTO EXISTING AND/OR PROVIDE NEW VENTING AS REQUIRED.
3. VENT TERMINATION THRU ROOF SHALL BE A MIN 1'0" FROM FRESH AIR OPENINGS.

GENERAL PLUMBING FIXTURE SIZING NOTES

1. REFER TO PLAN FOR COMBINED FIXTURE AND MAN SIZING. PLUMBER SHALL REVIEW ALL SCHEDULES/EQUIPMENT SCHEDULES FOR WORK NOT DETAILED ON FLOOR PLANS. REFER TO BELOW FOR INDIVIDUAL FIXTURE PLUMBING SIZES.
2. THE BELOW SCHEDULE IS A GENERAL SCHEDULE AND FIXTURES ONLY APPLY WHERE WHERE TAGGED ON PLANS:

WATER CLOSET FLUSH TANK (WC)
1 1/2" C/W

WATER CLOSET FLUSH VALVE (WC)
3" DRAIN, 1-1/2" VENT, 1" C/W

URINAL (UR)
2" DRAIN, 1-1/2" VENT, 3/4" C/W

LAVATORY (LV) - MISC SINKS (SI)
2" DRAIN, 1-1/2" VENT, 1/2" C/W

WASHING MACHINE (WA) LAUNDRY TUB (LT), KITCHEN SINK (KS), DISHWASHER
3/4" C/W

(DW) 2" DRAIN, 1-1/2" VENT, 3/4" H&CW. PROVIDE (L) UNDER ALL WASHING MACHINES LOCATED ABOVE GRADE AND PROVIDE LAUNDRY PAD BOX FOR WASHING MACHINE EQUAL TO OATEY TO SUIT STUD WALL. INSTALL FOR EASY ACCESS

JANITORS SINK (JS)
3" DRAIN, 1-1/2" VENT, 3/4" H&CW

BATHUBS (BT), SHOWERS (SH)
2" DRAIN, 1-1/2" VENT, 3/4" H&CW. HIGH DEMAND EXISTING WITH BODY JETS/RAMP/SHOWER HEADS AND SPOKES TUBS SHALL BE C/W 1" H&CW SUPPLY.

FLOOR, HUB, FUNNEL FLOOR DRAINS (FD), (HD), (FD))
2" ABOVE GRADE, 3" BURIED

HOSING (HB)
3/4" C/W

REFRIGERATOR (IN RESIDENTIAL)
1/2" C/W

DRAINAGE SLOPES
UNLESS NOTED ALL DRAINS SLOPES ARE AS FOLLOWS:
3" AND UNDER SHALL RUN AT 2.0% SLOPE
4" TO 6" SHALL RUN AT 1.0% SLOPE
8" AND UP SHALL BE NOTED ON PLANS

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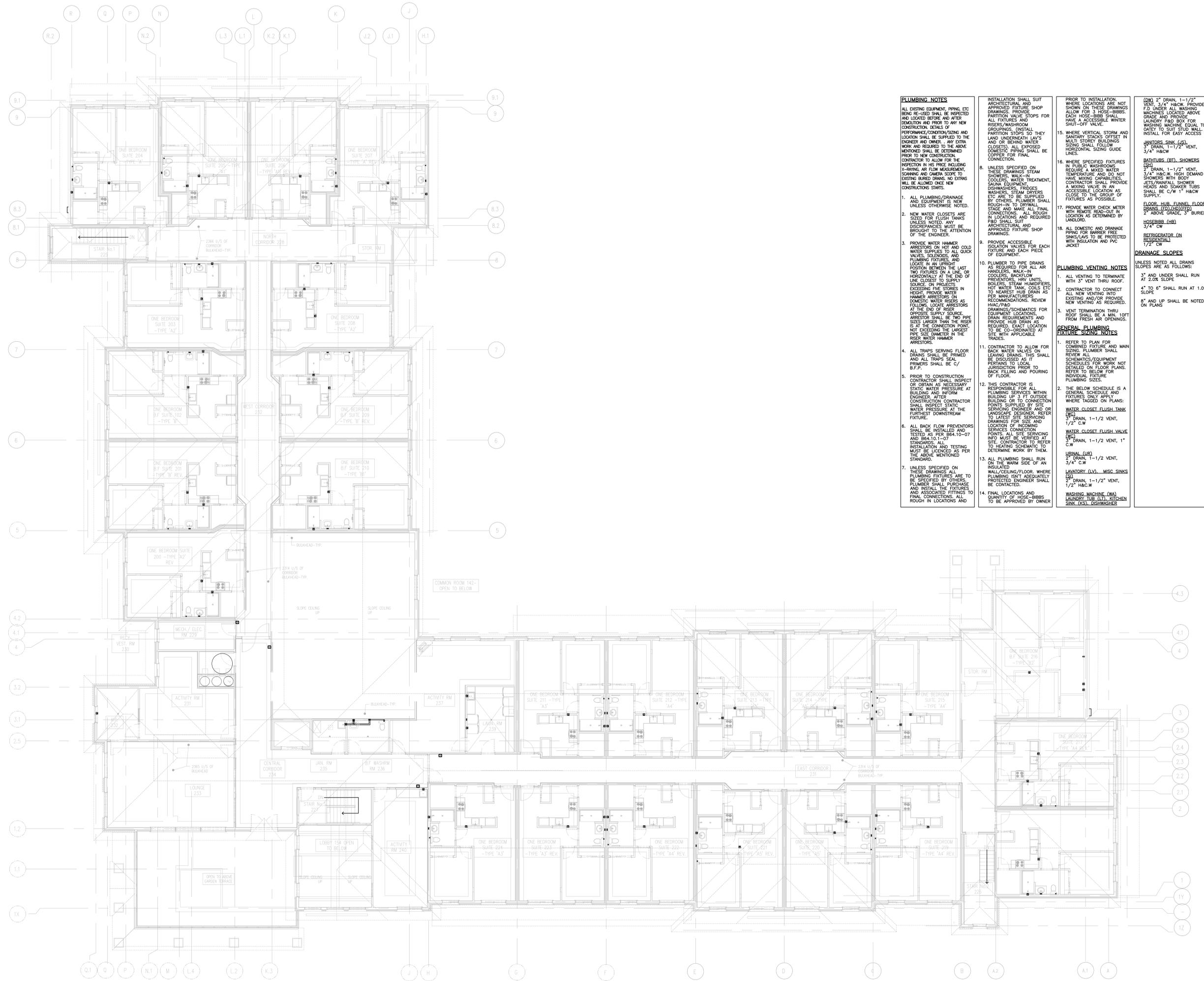
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CANNINGTON ONTARIO	
MECHANICAL	
PROJECT NO.	18-660
GROUND FLOOR PLAN PLUMBING LAYOUT	

DATE	2018
DRAWN BY	AL
SCALE	1:100

M-5

OF 8



PLUMBING NOTES

- ALL DISTINGUISHING EQUIPMENT, PIPING, ETC. BEING RE-USED SHALL BE INSPECTED AND LOCATED BEFORE AND AFTER DEMOLITION AND PRIOR TO ANY NEW CONSTRUCTION. DETAILS OF PERFORMANCE/CONDITION/SIZING AND LOCATION SHALL BE SUPPLIED TO THE ENGINEER AND OWNER. ANY EXTRA WORK AND REQUIRED TO THE ABOVE MENTIONED SHALL BE DETERMINED PRIOR TO NEW CONSTRUCTION. CONTRACTOR TO ALLOW FOR THE INSPECTION IN HIS PRICE INCLUDING X-RAYING, AIR FLOW MEASUREMENT, SCANNING AND CAMERA SCOPE TO EXISTING BURIED DRAINS. NO EXTRAS WILL BE ALLOWED ONCE NEW CONSTRUCTIONS STARTS.
1. ALL PLUMBING/DRAINAGE AND EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
 2. NEW WATER CLOSETS ARE SIZED FOR FLUSH TANKS UNLESS NOTED. ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 3. PROVIDE WATER HAMMER ARRESTORS ON HOT AND COLD WATER SUPPLIES TO ALL QUICK VALVES, SOLENOIDS, AND PLUMBING FIXTURES. LOCATE IN AN UPRIGHT POSITION BETWEEN THE LAST TWO FIXTURES ON A LINE, OR HORIZONTALLY AT THE END OF LINE CLOSEST TO SUPPLY SOURCE. ON PROJECTS EXCEEDING FIVE STORES IN HEIGHT, PROVIDE WATER HAMMER ARRESTORS ON DOMESTIC WATER RISERS AS FOLLOWS. LOCATE ARRESTORS AT THE END OF RISER, OPPOSITE SUPPLY SOURCE. ARRESTOR SHALL BE TWO PIPE SIZES LARGER THAN THE RISER IS AT THE CONNECTION POINT, NOT EXCEEDING THE LARGEST PIPE SIZE DIAMETER IN THE RISER WATER HAMMER ARRESTORS.
 4. ALL TRAPS SERVING FLOOR DRAINS SHALL BE PRIMED AND ALL TRAPS SEAL PRIMERS SHALL BE C/ B.F.P.
 5. PRIOR TO CONSTRUCTION CONTRACTOR SHALL INSPECT OR OBTAIN AS NECESSARY, STATIC WATER PRESSURE AT BUILDING AND INFORM ENGINEER. AFTER CONSTRUCTION CONTRACTOR SHALL INSPECT STATIC WATER PRESSURE AT THE FURTHEST DOWNSTREAM FIXTURE.
 6. ALL BACK FLOW PREVENTORS SHALL BE INSTALLED AND TESTED AS PER B64.10-07 AND B64.11-07 STANDARDS. ALL INSTALLATION AND TESTING MUST BE LICENCED AS PER THE ABOVE MENTIONED STANDARD.
 7. UNLESS SPECIFIED ON THESE DRAWINGS ALL PLUMBING FIXTURES ARE TO BE SPECIFIED BY OTHERS. PLUMBER SHALL PURCHASE AND INSTALL THE FIXTURES AND ASSOCIATED FITTINGS TO FINAL CONNECTIONS. ALL ROUGH IN LOCATIONS AND

8. INSTALLATION SHALL SUIT ARCHITECTURAL AND APPROVED FIXTURE SHOP DRAWINGS. PROVIDE PARTITION VALVE STOPS FOR ALL FIXTURES AND RISERS/WASHROOM GROUPINGS. (INSTALL PARTITION STOPS SO THEY LAND UNDERNEATH LAV'S AND OR BEHIND WATER CLOSETS). ALL EXPOSED DOMESTIC PIPING SHALL BE COPPER FOR FINAL CONNECTION.
9. UNLESS SPECIFIED ON THESE DRAWINGS STEAM SHOWERS, WALK-IN COOLERS, WATER TREATMENT, SALINA EQUIPMENT, DISINFECTERS, FRIGGES WASHERS, STEAM DRIVERS ETC ARE TO BE SUPPLIED BY OTHERS. PLUMBER SHALL ROUGH-IN TO BE SUPPLIED IN LOCATIONS AND REQUIRED CONNECTIONS. ALL ROUGH IN LOCATIONS AND REQUIRED ARCHITECTURAL AND APPROVED FIXTURE SHOP DRAWINGS.
10. PROVIDE ACCESSIBLE ISOLATION VALVES FOR EACH FIXTURE AND EACH PIECE OF EQUIPMENT.
11. PLUMBER TO PIPE DRAINS AS REQUIRED FOR ALL AIR HANDLERS, WALK-IN COOLERS, BACKFLOW PREVENTORS, HRV UNITS, BOILERS, STEAM HUMIDIFIERS, HOT WATER TANK, COILS ETC TO NEAREST HUB DRAIN AS PER MANUFACTURERS RECOMMENDATIONS. REVIEW HVAC/P&ID DRAWINGS/SCHEMATICS FOR EQUIPMENT LOCATIONS, DRAIN REQUIREMENTS AND PROVIDE HUB DRAIN AS REQUIRED. EXACT LOCATION TO BE CO-ORDINATED AT SITE WITH APPLICABLE TRADES.
12. CONTRACTOR TO ALLOW FOR BACK WATER VALVES ON LEAVING DRAINS. THIS SHALL BE DISCUSSED AS IT PERTAINS TO LOCAL JURISDICTION PRIOR TO BACK FILLING AND POURING OF FLOOR.
13. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING SERVICES WITHIN BUILDING UP TO 3 FT OUTSIDE BUILDING OR TO CONNECTION POINTS SUPPLIED BY SITE SERVICES ENGINEER OR LANDSCAPE DESIGNER. REFER TO LATEST SITE SERVICES DRAWINGS FOR SIZE AND LOCATION OF INCOMING SERVICES CONNECTION POINTS. ALL SITE SERVICES INFO MUST BE VERIFIED AT SO. CONTRACTOR TO REFER TO HEATING SCHEMATIC TO DETERMINE WORK BY THEM.
14. ALL PLUMBING SHALL RUN ON THE WARM SIDE OF AN INSULATED WALL/CEILING/FLOOR. WHERE PLUMBING ISN'T ADEQUATELY PROTECTED ENGINEER SHALL BE CONTACTED.
15. FINAL LOCATIONS AND QUANTITY OF HOSE-BIBBS TO BE APPROVED BY OWNER.

- PRIOR TO INSTALLATION, WHERE LOCATIONS ARE NOT SHOWN ON THESE DRAWINGS ALLOW FOR 1/2" HOSE-BIBBS. EACH HOSE-BIBB SHALL HAVE A ACCESSIBLE WRITER SHUT-OFF VALVE.
15. WHERE VERTICAL STORM AND SANITARY STAKES OFFSET IN MULTI STOREY BUILDINGS SIDING SHALL FOLLOW HORIZONTAL SIZING GUIDE LINES.
 16. WHERE SPECIFIED FIXTURES IN PUBLIC WASHROOMS REQUIRE A MIXED WATER TEMPERATURE AND DO NOT HAVE MIXING CAPABILITIES, CONTRACTOR SHALL PROVIDE A MIXING VALVE IN AN ACCESSIBLE LOCATION AS CLOSE TO THE GROUP OF FIXTURES AS POSSIBLE.
 17. PROVIDE WATER CHECK METER WITH REMOTE READ-OUT IN LOCATION AS DETERMINED BY LANDLORD.
 18. ALL DOMESTIC AND DRAINAGE PIPING FOR BARRIER FREE SINKS/LAVS TO BE PROTECTED WITH INSULATION AND PVC JACKET
- PLUMBING VENTING NOTES**
1. ALL VENTING TO TERMINATE WITH 3" VENT THRU ROOF.
 2. CONTRACTOR TO CONNECT ALL NEW VENTING INTO EXISTING AND/OR PROVIDE NEW VENTING AS REQUIRED.
 3. VENT TERMINATION THRU ROOF SHALL BE A MIN. 10FT FROM FRESH AIR OPENINGS.
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1. REFER TO PLAN FOR COMBINED FIXTURE AND MAIN SIZING. PLUMBER SHALL REVIEW ALL SCHEMATICS/EQUIPMENT SCHEDULES FOR WORK NOT DETAILED ON FLOOR PLANS. REFER TO BELOW FOR INDIVIDUAL FIXTURE PLUMBING SIZES.
 2. THE BELOW SCHEDULE IS A GENERAL SCHEDULE AND FIXTURES ONLY APPLY WHERE TAGGED ON PLANS:
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3" DRAIN, 1-1/2" VENT, 1/2" C.W.
- WATER CLOSET FLUSH VALVE (WC)
3" DRAIN, 1-1/2" VENT, 1" C.W.
- URINAL (UR)
2" DRAIN, 1-1/2" VENT, 3/4" C.W.
- LAVATORY (LV) - MISC SINKS (SI)
2" DRAIN, 1-1/2" VENT, 1/2" H&C.W.
- WASHING MACHINE (WA)
LAUNDRY TUB (LT), KITCHEN SINK (KS), DISHWASHER
- (DW) 2" DRAIN, 1-1/2" VENT, 3/4" H&C.W. PROVIDE F.D. UNDER ALL WASHING MACHINES LOCATED ABOVE GRADE AND PROVIDE LAUNDRY P&B BOX FOR WASHING MACHINE EQUAL TO GATEY TO SUIT STUD WALL. INSTALL FOR EASY ACCESS.
- JANITORS SINK (JS)
3" DRAIN, 1-1/2" VENT, 3/4" H&C.W.
- BATHTUBS (BT), SHOWERS (SH)
2" DRAIN, 1-1/2" VENT, 3/4" H&C.W. HIGH DEMAND SHOWERS WITH BODY JETS/DRAINFALL, SHOWER HEADS AND SOAKER TUBS SHALL BE C/W 1" H&C.W SUPPLY.
- FLOOR HUB FUNNEL FLOOR DRAINS (FD)(HDFD)
2" ABOVE GRADE, 3" BURIED
- HOSEBIBB (HB)
3/4" CW
- REFRIGERATOR (IN RESIDENTIAL)
1/2" CW
- DRAINAGE SLOPES**
- UNLESS NOTED ALL DRAINS SLOPES ARE AS FOLLOWS:
- 3" AND UNDER SHALL RUN AT 2.0% SLOPE
- 4" TO 6" SHALL RUN AT 1.0% SLOPE
- 8" AND UP SHALL BE NOTED ON PLANS

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CANNINGTON ONTARIO

MECHANICAL

PROJECT NO. 18-660

DATE 2018

DRAWN BY AL

DRAWING TITLE SECOND FLOOR PLAN PLUMBING LAYOUT

DATE 2018

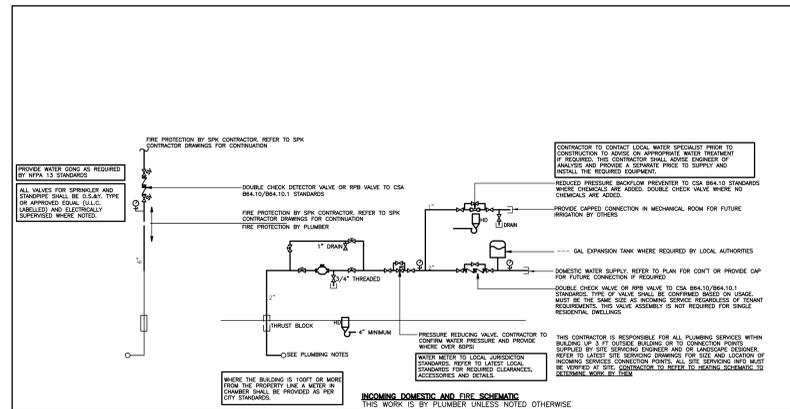
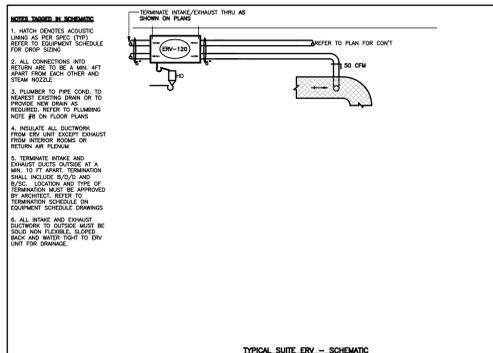
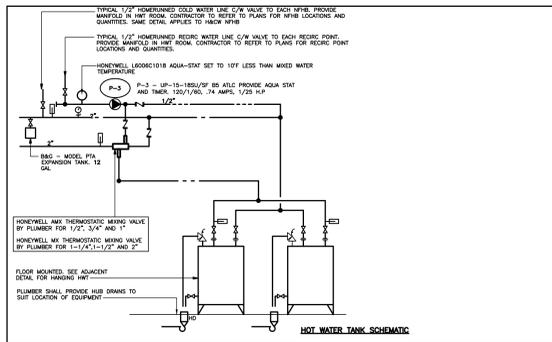
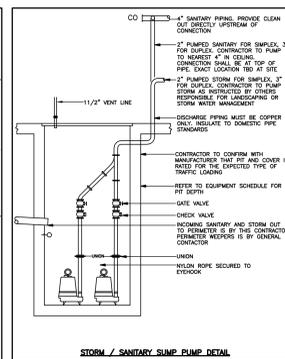
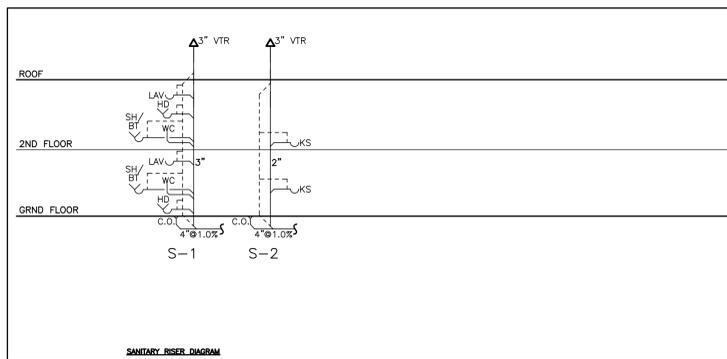
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DRAWING TITLE SECOND FLOOR PLAN PLUMBING LAYOUT

SCALE 1:100

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OF 8



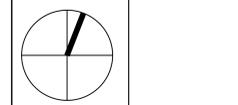
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CANNINGTON ONTARIO

MECHANICAL

PROJECT No. 18-660

DRAWING TITLE
MECHANICAL DETAILS

DATE 2018

DRAWN BY AL

SCALE NTS

M-8

OF 8