

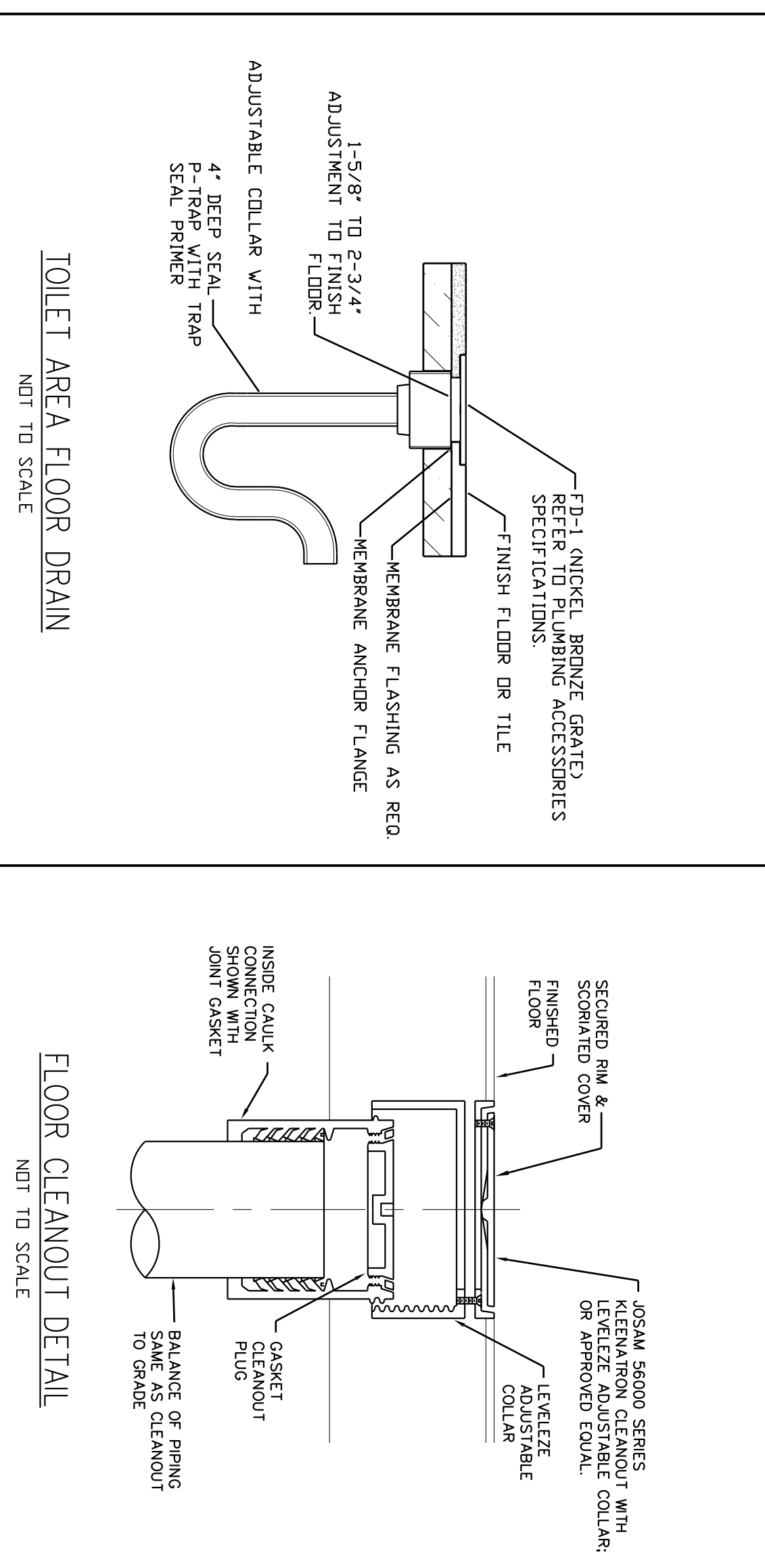
MECHANICAL FLOOR PLAN
SCALE: 1" = 50'

FIX. REF.	FIXTURE	HOT WATER	COLD WATER	DIR. DRAIN	VENT	REMARKS
WC-1	WATER CLOSET (F.T.)	1/2"	1/2"	3"	1-1/2"	FLOOR MOUNTED WATER CLOSET, BARRIER FREE, ELONGATED BOWL, DUAL 4.1UPF & 6UPF FLUSH VALVE, ZURN Model Z6000V-W31.
L-1	LAVATORY	1/2"	1/2"	1-1/4"	1-1/4"	WALL MOUNTED UTENSIL CHINA LAVATORY BARRIER FREE TYPE, WALL CARRIER SUPPORT SINGLE LEVER FAUCET, ZURN Model Z5110. INSULATE HOT WATER AND DRAIN OFF-SET.
WH-1	WALL HYDRANT	-	3/4"	-	-	NON FREEZE WALL HYDRANT WITH NICKEL BRONZE BOX AND DOOR.
HB-1	INDOOR HOSE BIBB	-	3/4"	-	-	INDOOR WALL HYDRANT WITH NICKEL BRONZE BOX AND DOOR.
FD-1	FLOOR DRAIN	-	1/2"	3"	2"	CHROME PLATED FACED, INTEGRAL VACUUM BREAKER, WATTS Model HF-725.
TD-1	TRENCH AREA DRAIN	-	1/2"	4"	2"	FINISH FLOOR, FLOOR GRAB, BRONZE PIPES, BRONZE GRATE, ADJUSTABLE NECK, CAST IRON BODY, WATTS Model TD-10Z-C-48-1.
HWT-1	HOT WATER TANK	1/2"	1/2"	1"	-	OIL/SEDIMENT INTERCEPTOR HEAVY DUTY CAST IRON GRATE "ZURN" 4" DIA. OUTLET MODEL # Z-1189-60, OVERALL SIZE 30"x24", DEPT TO BE COORDINATED WITH CAR WASH SYSTEM. ELECTRIC HOT WATER TANK, 6 IMPER. GALLONS CAPACITY 1500W ELEMENT, 120V, 1φ. TANK TO BE C/W TEMP. RELIEF VALVE PER TO PLUMBING CODE. JOHN WOOD W/ AMOZE.

PLUMBING FIXTURE CONNECTIONS AND SPECIFICATIONS

Service	Service Abr.	Material	Connection Type	Oper. Temp (F)	Max. Temp. W/ Press (F)	Test Press (psig)	Test Press (psig)	Location	Insulation	Jacket	Incress
Natural Gas	G	Carbon Steel	Thread/Butt Weld	75	80	0 - 1	3	Indoor, Outdoor	NONE	N/A	-
Sanitary Waste	-	Copper/Cast Iron	Solder/M.J.L.	40 - 110	140	0	10 FT. HD.	Indoor	NONE	N/A	-
Sanitary Vent	-	Copper/Cast Iron	Solder/M.J.L.	40 - 110	140	0	10 FT. HD.	Indoor	NONE	N/A	-
Domestic Water	-	Copper	Solder	40	70	80	120	Indoor	Fiberglass	YES	1"
Domestic Hot Water	-	Copper	Solder	110	140	80	120	Indoor	Fiberglass	YES	1"
Sanitary Waste (buried)	-	Plastic	Plastic Weld	40 - 110	140	0	10 FT. HD.	Indoor	NONE	N/A	-

PIPING MATERIAL AND INSULATION SCHEDULE



DRAWING NOTES:

- NEW BUILDING GAS METER BY ENBRGE GAS, TOTAL CAPACITY 300MBH, MECHANICAL CONTRACTOR TO COORDINATE ALL NATURAL GAS WORK WITH ENBRGE PRIOR TO GAS PIPING AND RELATED EQUIPMENT FINAL LAYOUT.
- NEW 2" MAIN WATER BUILDING FOUNDATION WALL CONTRACTOR TO COORDINATE THIS WORK WITH CIVIL CONTRACTOR FOR EXACT WATER PIPE LOCATION.
- PROVIDE NEW 1" WATER METER AS PER CITY REQUIREMENTS, PROVIDE WALL MOUNTED REMOTE WATER METER READ OUT AS SHOWN.
- PROVIDE NEW ELECTRIC HOT WATER TANK WATER FOR CAPTION AND DETAILS WORK REFER TO FOR CONNECTIONS.
- PROVIDE COLD AND HOT DOMESTIC WATER PIPING LAYOUT AS SHOWN, PROVIDE ALL PIPING HANGERS AND SUPPORTS AS PER CODE. ALL COLD AND HOT WATER PIPES TO BE INSULATED WITH 1" THICK THERMAL INSULATION C/W PVC COVER JACKET (TYPICAL FOR ALL).
- PROVIDE ALL SANITARY DRAINAGE BURIED PIPING SIZES AS SHOWN, PROVIDE PIPING HANGERS AND SUPPORTS AS PER CODE. EXISTING METERS AS PER SCHEDULE REFER TO SPECIFIED BELOW. PROVIDE TRAP SEAL PRIMER AS PER CODE (TYPICAL FOR ALL).
- PROVIDE NEW FLOOR DRAIN "TD-1" AS SPECIFIED BELOW. PROVIDE TRAP SEAL PRIMER AS PER CODE (TYPICAL FOR ALL).
- FIXTURES AS SPECIFIED BELOW, ALL PIPING CONNECTIONS AS SHOWN ON PLUMBING CONNECTION SCHEDULE BELOW (TYPICAL FOR ALL).
- SANITARY SEWER SERVICE FOR PIPE CONNECTIONS AND EXACT LOCATION REFER TO SITE PLAN DRAWINGS.
- PROVIDE CAR WASH SOIL/SEDIMENT INTERCEPTOR AS SHOWN, PROVIDE AS PER SPECIFICATIONS BELOW. COORDINATE THIS WORK WITH GENERAL TRADES PRIOR TO FINAL LOCATIONS. (TYPICAL OF 2).
- LAYOUT AS SHOWN RUN IN JOINTS SPACE. PROVIDE ALL PIPING HANGERS AND SUPPORTS AS PER CODE. ALL COLD WATER PIPING TO BE INSULATED WITH 1" THICK THERMAL INSULATION C/W PVC COVER JACKET (TYPICAL FOR ALL).
- PROVIDE NEW WALL MOUNTED COLD WATER HOSE BIB REFER TO SPECIFICATIONS BELOW.
- PROVIDE NEW "SECOMAT" CLOSED LOOP WASTE WATER RECOVERY SYSTEM. ALL COMPLETE EQUIPMENT TO BE SUPPLY BY "SECOMAT" INSTALLATION BY APPROVED CONTRACTOR AS PER MANUFACTURER INSTALLATION INSTRUCTIONS. ALL INSTALLATION SHALL COMPLY WITH OBC 2012.

HVAC LEGEND:

- ☒ SUPPLY AIR DIFFUSER
- ☒ SUPPLY AIR 'UP'
- ☒ SUPPLY AIR 'DOWN'
- ☒ RETURN AIR 'UP'
- ☒ RETURN AIR 'DOWN'
- ☒ DUCT WITH INSULATION
- ☒ RETURN AIR GRILLE
- ☒ FLEXIBLE DUCT CONNECTION
- ☒ BALANCING DAMPER

PLUMBING LEGEND:

- HOT WATER SUPPLY ABOVE SLAB
- COLD WATER SUPPLY ABOVE SLAB
- SANITARY DRAIN ABOVE SLAB
- SANITARY DRAIN UNDER SLAB
- VENT PIPING
- SANITARY P-TRAP
- SHUT-OFF VALVE

FLYNN ARCHITECT

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GENERAL NOTES

- DO NOT SCALE DRAWINGS, FIGURED DIMENSIONS ONLY TO BE USED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- ALL WORK DESCRIBED UNDER THIS CONTRACT TO COMPLY WITH THE MOST CURRENT EDITION OF THE ONTARIO BUILDING CODE, AND/OR NATIONAL BUILDING CODE, AND OTHER CODES AND BY-LAWS IN EFFECT.

ISSUE RECORD

No	DATE	REVISION
1	13-05-2016	ISSUED FOR CLIENT REVIEW
2	28-09-2018	ISSUED FOR REVIEW
3	27-06-2019	ISSUED FOR TENDER
4	8-11-2019	ISSUED FOR PERMIT

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ANTARES ENGINEERING (M&E ENGINEERING)
1-159 COLONNADE ROAD
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PROJECT TITLE: 225 HUNTING DRIVE HUNTINGR/PALLADIUM DR. ENTERPRISE MECHANICAL PLUMBING DISTRIBUTION

DRAWING TITLE: MECHANICAL PLUMBING DISTRIBUTION

DRAWING NO.: M-1

SCALE: AS SHOWN

CHECKED BY: S.J.S.

DATE: 15-6-10

DRAWN BY: J.C.L.

MECHANICAL