A1 SIZE – 594mm x 841mm

PLUMBING SYMBOLS

- EXISTING PIPE (SCREENED)
- NEW PIPE
- EXISTING PIPE TO BE ABANDONED
- EXISTING PIPE TO BE REMOVED
- ANCHOR
- CAP
- ELBOW, 90 DEGREE
- ELBOW UP
- ELBOW DOWN
- CROSS
- TEE
- TEE UP
- TEE DOWN
- ELBOW, 45 DEGREE
- LATERAL
- LATERAL UP
- LATERAL DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- UNION
- GROOVED END JOINT
- FLEXIBLE (ELASTOMER) PIPE CONNECTION
- STEEL BELLOWS EXPANSION JOINT
- STRAINER
- SIGHT GLASS
- PS — PRESSURE SWITCH
- FS — FLOW SWITCH
- PRESSURE GAUGE WITH COCK
- THERMOMETER
- ROTAMETER
- HOSE RACK (TYPE AS INDICATED)
- EMERGENCY EYEWASH
- S — EMERGENCY SAFETY SHOWER
- S — COMBINED EMERGENCY SHOWER AND EYE WASH
- FE–X — FIRE EXTINGUISHER, X = NO. IN SPECS
- XCO — X = F – FLOOR CLEANOUT; D – DECK CLEANOUT; W – WALL CLEANOUT
- HD–XY — HUB DRAIN, X = NO. IN SPECS, Y = T – WITH TRAP; P – WITH PRIMED TRAP
- FD–XY — FLOOR DRAIN, X = NO. IN SPECS, Y = T – WITH TRAP; P – WITH PRIMED TRAP
- AD–XY — AREA DRAIN, X = NO. IN SPECS, Y = T – WITH TRAP; P – WITH PRIMED TRAP
- OD–X — OVERFLOW DRAIN, X = NO. IN SPECS
- RD–X — ROOF DRAIN, X = NO. IN SPECS

SEE PROCESS LEGEND SHEET FOR ADDITIONAL SYMBOLS

PLUMBING FIXTURE IDENTIFICATION

LEGEND	FIXTURE
AD	AREA DRAIN
BFP	BACKFLOW PREVENTER
CO	CLEANOUT
DF	DRINKING FOUNTAIN
EEW	EMERGENCY EYE WASH
ES	EMERGENCY SAFETY SHOWER
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GD	GUTTER DRAIN
HD	HUB DRAIN
HDS	HOSE DOWN STATION
HV	HOSE VALVE
LAV	LAVATORY
MS	MOP SINK
OD	OVERFLOW ROOF DRAIN
ON	OVERFLOW NOZZLE
RD	ROOF DRAIN
SK	SINK
SH	SHOWER
SPD	SUMP PUMP DISCHARGE
SSH	COMBINED EMERG. SHOWER & EYEWASH
SSK	SERVICE SINK
LSK	LABORATORY DOUBLE SINK
TP	TRAP PRIMER (PRESSURE ACTUATED)
TV	TEMPERING VALVE
UR	URINAL
WC	WATER CLOSET
WF	WASH FOUNTAIN

FIXTURE CONNECTION SCHEDULE

ITEM NO	DESCRIPTION	DRAIN	V	HW	W1
LAV–1	LAVATORY	50mm	38mm	12mm	12mm
MS–1	MOP SINK	75mm	38mm	12mm	12mm
SK–1	LAB SINK	50mm	38mm	12mm	12mm
SK–2	SINK	50mm	38mm	12mm	12mm
WC–1	WATER CLOSET, FLUSH VALVE	100mm	50mm	25mm	---

EXAMPLE CALLOUT: SSH – X

FIXTURE LEGEND

NO. IN SPECIFICATIONS

SERVICE DESIGNATIONS

D	DRAIN SANITARY
HW	POTABLE HOT WATER
NPW	NON POTABLE WATER
RD	ROOF DRAIN
RWL	RAIN WATER LEADER
SPD	SUMP PUMP DISCHARGE
SW	SEAL WATER
TWS	TEMPER WATER SUPPLY
TWR	TEMPER WATER RETURN
V	VENT
VTA	VENT TO ATMOSPHERE
VTR	VENT THROUGH ROOF
W1	POTABLE COLD WATER

PLUMBING EQUIPMENT IDENTIFICATION

IDENTIFICATION	EQUIPMENT NAME
AC	AIR COMPRESSOR
D	SANITARY DRAIN
ANT	ACID NEUTRALIZATION TANK
BFP	BACK FLOW PREVENTER
BP	BOOSTER PUMP
CP	CIRCULATION PUMP
ET	EXPANSION TANK
ETP	TRAP PRIMER ASSEMBLY (ELECTRICALLY ACTUATED)
EWH	ELECTRIC WATER HEATER
HE	HEAT EXCHANGER
OWS	OIL\WATER SEPERATOR
P	PUMP
SP	SUMP PUMP
ST	STORAGE TANK
TV	TEMPERING VALVE
WT	WATER STORAGE TANK

EXAMPLE CALLOUT: P – 1 0 1

FIXTURE LEGEND

SEQUENTIAL UNIT NUMBER

PLUMBING GENERAL NOTES

1. THIS IS A STANDARD LEGEND, THEREFORE, SOME SYMBOLS AND ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE DRAWINGS. REFER TO STANDARD DETAILS FOR EQUIPMENT, HOSE VALVE AND PIPING INSTALLATION DETAILS. REFER TO DRAWING PPID–A001 FOR ADDITIONAL EQUIPMENT IDENTIFICATION, FUNCTIONAL DESIGNATIONS AND CODES. SHOULD THERE BE A CONFLICT, THE INFORMATION ON DRAWING PPID–A001 SHALL GOVERN.
2. FIXTURES LOCATED IN SLABS ON GRADE SHALL HAVE THEIR TRAPS AND HORIZONTAL TRAP ARMS CAST INTO THE FLOOR SLAB UNLESS INDICATED OTHERWISE.
3. INSTALL BURIED AND CONCRETE ENCASED COPPER PIPING WITH A PROTECTIVE SLEEVE OR WRAP FOR IT'S ENTIRE LENGTH. SLEEVE OR WRAP SHALL BE FLEXIBLE POLYETHYLENE MANUFACTURED FOR CONTINUOUS PIPE COVER APPLICATION. EXTEND SLEEVE OR WRAP 50mm ABOVE FINISHED FLOOR.
4. PIPING ELEVATIONS SHOWN ARE APPROXIMATE, FIELD VERIFY PIPING ELEVATIONS WITH EXISTING CONDITIONS PRIOR TO INSTALLATION.
5. THE CONTRACTOR SHALL PROVIDE OFFSETS IN THE PIPING RUNS WHERE REQUIRED TO CLEAR EXISTING AND NEW DUCT, STRUCTURE AND OTHER PIPING SYSTEMS.
6. PLUMBING VENTS THROUGH ROOF SHALL BE OFFSET AT ROOF TO PROVIDE MINIMUM DISTANCE OF 1m FROM EXTERIOR WALL.
7. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND ROOF DRAINS.
8. CLEANOUT TO GRADE FITTINGS, WHERE SANITARY DRAIN EXITS THE BUILDING, SHALL ALLOW FOR RODDING BOTH WAYS.
9. COORDINATE FINAL LOCATIONS OF FLOOR AND HUB DRAINS THAT RECEIVE CONDENSATE DRAINAGE FROM HVAC AND PROCESS EQUIPMENT.
10. PROVIDE CLEANOUTS IN ROOF DRAIN PIPING, ROOF OVERFLOW DRAIN PIPING AND SANITARY WASTE PIPING AS SHOWN ON THE DRAWINGS. FURNISH AND INSTALL ADDITIONAL CLEANOUTS AS REQUIRED BY CODE.
11. SLOPE SANITARY, ROOF, AND OVERFLOW PIPING AT 2% UNLESS OTHERWISE INDICATED ON FLOOR PLANS. WHERE FIELD CONDITIONS DO NOT ALLOW A 2% SLOPE, PROVIDE MINIMUM 1% SLOPE.
12. IN SOME CASES, SANITARY SEWER LATERALS IN THE YARD ARE LARGER THAN THE PIPE SIZES SHOWN INSIDE A BUILDING. TRANSITION WITHIN 1.5m OF THE BUILDING WALL WHERE THAT OCCURS.
13. ITEMS SHOWN AS EXISTING ARE BASED ON AVAILABLE DOCUMENTATION AND MAY NOT ACTUALLY BE REPRESENTATIVE OF THE EXISTING INFRASTRUCTURE. THE DESIGN ENGINEER IS ONLY RESPONSIBLE FOR INFRASTRUCTURE THAT IS SHOWN AS A NEW INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE STATE OF THE EXISTING INFRASTRUCTURE THAT MAY HAVE AN INPACT ON THE INSTALLATION OF NEW EQUIPMENT.

VALVE SYMBOLS

- HOSE VALVE
- REGULATED SIDE PRESSURE CONTROL
- DOUBLE CHECK VALVE
- REDUCED PRESSURE BACKFLOW PREVENTER
- NON FREEZE HOSE VALVE
- NON FREEZE HOSE VALVE WITH HOSE RACK
- S — SOLENOID VALVE
- T — TO TEMPERATURE SENSOR TEMPERATURE SENSING VALVE

APEGM
Certificate of Authorization
CH2M HILL Canada Ltd.
No. 1441

NO.	REVISIONS	DATE	DESIGN	CHECK
07	ISSUED FOR CONSTRUCTION – 976–2016	04/05/2017	K.F.	J.C.
06	ISSUED FOR CONSTR – B.O. 899–2015	04/2016	P.K.	J.C.
05	ISSUED FOR ADD. 4 – B.O. 899–2015	03/2016	P.K.	J.C.
04	ISSUED FOR TENDER – B.O. 899–2015	01/2016	K.F.	J.C.
03	ISSUED FOR 90% PRELIMINARY REVIEW	11/2015	S.S.	J.C.
02	ISSUED FOR CONSTRUCTION	10/2015	K.F.	J.C.
01	ISSUED FOR 60% PRELIMINARY REVIEW	09/2015	K.F.	J.C.
00	ISSUED FOR TENDER	08/2015	A.M.	J.C.

CH2MHILL. KGS GROUP SNC·LAVALIN

DESIGNED BY: T. TRAN
CHECKED BY: D. CUDDINGTON
DRAWN BY: K. FONG
APPROVED BY: H.T. FREIHAMMER
SCALE: NTS
ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2017/04/05
DATE: 2017/04/05
CONSULTANT NO.: 474248

ENGINEER'S SEAL: PROVINCE OF MANITOBA — T.T. TRAN Member 40578 — REGISTERED PROFESSIONAL ENGINEER — April 14/17

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
MECHANICAL
LEGEND AND GENERAL NOTES (2)

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0102–MAAA–A001	002	07	A1

PLOT DATE: 2017\03\31

FILE NAME: 1–0102–MAAA–A001–002.dgn

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