

MECHANICAL SPECIFICATIONS

1.0 GENERAL
1 VISIT JOBSITE DURING BID, DRAWINGS INDICATE APPROXIMATE LOCATION OF EXISTING MECHANICAL EQUIPMENT AND SERVICES. VERIFY EXACT LOCATIONS OF EXISTING MECHANICAL EQUIPMENT AND SERVICES AND ALLOW FOR NECESSARY RELOCATING OF NOTED SERVICES (OR RECONNECTION TO EXISTING SERVICES) TO SUIT NEW CONSTRUCTION.
2 ALL WORK SHALL CONFORM TO MANITOBA BUILDING CODE AND LOCAL AUTHORITIES. APPLY FOR, OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
3 COORDINATE INSTALLATION WITH ALL RELATED TRADES, ARCHITECTURAL DRAWINGS, INTERIOR DESIGN PLANS AND REFLECTED CEILING PLANS. VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING EQUIPMENT AND SERVICES PRIOR TO PROCEEDING WITH WORK.
4 SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT TO CONTRACT ADMINISTRATOR.
5 PROVIDE ONE-YEAR WARRANTY FOR ALL EQUIPMENT.
6 ALL CONNECTIONS TO EXISTING BUILDING MECHANICAL SERVICES SHALL BE COORDINATED WITH THE CONTRACT ADMINISTRATOR.
7 ALL NECESSARY CUTTING AND PATCHING SHALL BE PERFORMED BY COMPETENT SUB-TRADES EMPLOYED BY MECHANICAL SUBCONTRACTOR TO SATISFACTION OF THE CONTRACT ADMINISTRATOR.
8 ALL NECESSARY CUTTING AND PATCHING SHALL BE PERFORMED BY CONTRACTOR, MECHANICAL SUBCONTRACTOR TO CO-ORDINATE ON SITE.
9 REFER TO INSTRUCTIONS TO BIDDERS FOR REQUIREMENTS REGARDING PROJECT PHASING, WORKING HOURS, SHUT-DOWN PROCEDURES, ACCESS, ETC.
10 PROVIDE MILCOR ACCESS DOORS IN DRYWALL CEILINGS AND WALLS FOR ACCESS TO MECHANICAL EQUIPMENT. MINIMUM SIZE 24" X 18".
11 PRIOR TO DRILLING HOLES AND/OR OPENINGS IN EXISTING STRUCTURE, CONTRACTOR SHALL RETAIN SERVICES OF INDEPENDENT GPR SCANNING COMPANY QUALIFIED AND LICENSED TO PRACTICE IN PROVINCE OF MANITOBA TO LOCATE AND MARK ALL STRUCTURAL STEEL LOCATED IN AREA WHERE CUTTING OR DRILLING IS PROPOSED. AT NO TIME SHALL STEEL BE CUT WITHOUT PRIOR WRITTEN APPROVAL FROM CONTRACT ADMINISTRATOR.
12 ALL INTERIOR SPACE POWER HAMMERING, DRILLING AND OTHER NOISY WORK SHALL BE COORDINATED WITH THE CONTRACT ADMINISTRATOR.
13 BID QUOTATIONS SHALL BE BASED ON THE USE OF SPECIFIED EQUIPMENT, UNLESS ACCEPTANCE FOR THE USE OF EQUAL MANUFACTURERS IN ACCORDANCE WITH B6 IS OBTAINED FROM THE CONTRACT ADMINISTRATOR PRIOR TO SUBMISSION OF BIDS. ALTERNATE MANUFACTURERS MAY BE QUOTED AS AN INCREASE OR DECREASE AMOUNT TO THE TENDER PRICE, WITHOUT PRIOR ACCEPTANCE OF THE CONTRACT ADMINISTRATOR.
14 FURNISH TO THE CITY THREE (3) COMPLETE SETS OF MANUFACTURER'S OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT REQUIRING MAINTENANCE. REVIEW INSTRUCTIONS WITH CONTRACT ADMINISTRATOR TO ENSURE A THOROUGH UNDERSTANDING OF THE EQUIPMENT AND ITS OPERATION. PROVIDE A MARK-UP OF THE CONTRACT DRAWINGS FOR RECORD "AS-BUILT" DRAWINGS, REVISED AS REQUIRED TO SHOW ANY CHANGES FROM THAT ORIGINALLY SHOWN.
15 ALL DUCTWORK AND PIPING TO BE INSTALLED STRAIGHT, PARALLEL TO THE BUILDING WALLS.
16 WHERE PIPES OR DUCTS GO THROUGH AN EXTERIOR ROOF OR WALL, THEY SHOULD BE BOXED-IN, FLASHED AND WATERPROOFED. ALLOW FOR EXPANSION AND CONTRACTION OF PIPE.
17 PIPE HANGERS SHALL BE GRINNELL FIG. 65 FOR STEEL PIPE AND FIG. C765 FOR COPPER PIPE, ALL WITH FIG. 140 THREADED ROD ATTACHED TO FIG. 117 EXPANSION CASE SET IN HOLES DRILLED IN CONCRETE, OR ATTACHED TO FIG. 225 OR 227 CLAMP ATTACHED TO JOISTS OR BEAMS.
18 TREATED WOOD SLEEPERS (4" X 4") AND FLASHING FOR EQUIPMENT INSTALLED ON ROOF TO BE PROVIDED BY THE GENERAL CONTRACTOR.
19 ALL EXTRANEOUS MATERIAL IN CEILING SPACE UNRELATED TO NEW AND REVISED WORK SHOWN, INCLUDING PIPING, CONTROL TUBING, DUCTWORK, ETC. SHALL BE REMOVED.
20 PROVIDE FIRESTOPPING FOR ALL OPENINGS IN FIRE SEPARATIONS FOR PASSAGE OF PIPES, DUCTS, ETC. TO MAINTAIN INTEGRITY OF FIRE SEPARATIONS AS PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
21 INSTALLATION OF WORK SHALL BE COORDINATED WITH THE CONTRACTOR AND SHALL BE SCHEDULED SO AS NOT TO ENDANGER OR DISTURB THE USERS OF THE BUILDING. SHUTDOWN OF EXISTING BUILDING SYSTEMS SHALL BE COORDINATED WITH THE CONTRACT ADMINISTRATOR.
22 ALL WIRING FOR EQUIPMENT SPECIFIED HEREIN SHALL BE BY THE ELECTRICAL SUBCONTRACTOR, UNLESS OTHERWISE NOTED.
23 MECHANICAL SUB-CONTRACTOR SHALL REVIEW ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH ELECTRICAL SUBCONTRACTOR AND ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT. ENSURE PROPER ELECTRICAL CHARACTERISTICS ARE DETERMINED FOR ALL AFFECTED AND RELATED WORK.
24 PRIOR TO INSTALLATION OF THE CEILING, NOTIFY THE CONTRACT ADMINISTRATOR AND ARRANGE FOR A FINAL REVIEW OF THE WORK. FOR UNDERTAKING THIS REVIEW, THE FOLLOWING SHALL BE COMPLETED:
1 ALL SYSTEMS TO BE FULLY OPERATIONAL, AS-BUILT DRAWINGS SUPPLIED AND OPERATING AND MAINTENANCE MANUALS SUBMITTED. TWO (2) DAYS NOTIFICATION (IN WRITING) IS REQUIRED TO BE GIVEN TO THE CONSULTANTS PRIOR TO REVIEWS BEING UNDERTAKEN.
2 ALL DEFICIENCIES SHALL BE COMPLETED WITHIN TWO (2) WEEKS OF AN AGREED PERIOD OF TIME AFTER FINAL REVIEW AND A LETTER SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR WITHIN THAT TIME ADVISING OF SUCH. FAILURE TO COMPLETE WORK MAY RESULT IN WORK BEING DONE BY THE CITY OF WINNIPEG AND THE COSTS DEDUCTED FROM FINAL PAYMENT.
25 WHERE MECHANICAL SERVICES ARE CONCEALED WITHIN WALLS, FLOORS OR CEILINGS AND CANNOT BE VISUALLY IDENTIFIED, PROVIDE ELECTRONIC SCANNING DEVICES OR OTHER APPROVED MEANS TO LOCATE AND IDENTIFY CONCEALED SERVICES PRIOR TO WORK START. MAKE GOOD ANY DAMAGE TO EXISTING MECHANICAL SERVICES AT NO COST TO THE CONTRACT.
26 SILICONE ALL FIXTURES TO ADJACENT WALLS, FLOORS OR COUNTERTOPS ETC.

2.0 INSULATION
1 INSULATE ALL DOMESTIC WATER PIPING WITH 1/2" FIBERGLAS 7 LB. DENSITY, PIPE INSULATION WITH ASJ AS PER MFG. RECOMMENDATIONS. SEAL ALL BREAKS, JOINTS WITH ASJ TAPE.
2 INSULATE ALL HEATING PIPING WITH 1" FIBERGLAS 5 1/2 LB. DENSITY PIPING INSULATION WITH ASJ AS PER MANUFACTURER'S RECOMMENDATIONS. SEAL ALL BREAKS, JOINTS WITH ASJ TAPE.
3 ALL COLD PIPING INSULATION SHALL BE CW WITH VAPOUR BARRIER.
4 ALL EXHAUST DUCTS FOR DISTANCE OF 6'-0" BACK FROM WALL OR ROOF OUTLET TO HAVE 2" FIBERGLAS RFRK.
5 EXTERIOR DUCTWORK TO HAVE 2" FIBERGLAS RFRK REINFORCED FOIL FACE VAPOUR SEAL DUCT INSULATION PF385, 3/4 LB./CU.FT. DENSITY. PROVIDE FASTENERS TO BOTTOM SURFACE OF DUCT BY IMPALING ON WELDED PINS ON 12" CENTRES. SPOT ADHESIVE ON 12" CENTRES ON ALL SIDES OF DUCTWORK. APPLY INSULATION WITH EDGES TIGHTLY BUTTED TOGETHER AND SECURED WITH 100% COVERAGE OF 3M NO. 17, DUCTWORK LOCATED ON THE ROOF, PROVIDE OVERWRAP OF 45 MIL THICK, REINFORCED "FIRESTONE ULTRAPLY 78" OR EQUAL. SEAL ALL SEAMS AS RECOMMENDED BY MATERIAL MANUFACTURER. PRIOR TO MATERIAL INSTALLATION, PINS, METAL FASTENERS AND OTHER SHARP EDGES OR POINTS SHALL BE BENT AWAY FROM OVERWRAP OR CUT OR GROUND OFF. TO ENSURE THAT OVERWRAP WILL NOT BE PUNCTURED, PROVIDE SLIGHT PEAK ALONG TOP CENTRE LINE SO MOISTURE WILL RUN OFF.
6 ACOUSTIC INSULATION ON SUPPLY DUCTWORK, WHERE SHOWN ON THE DRAWINGS, SHALL BE 1" THICK FIBREGLAS RIGID COATED DUCT LINER. THE DUCT SIZES SHOWN ON THE DRAWING REPRESENTS THE FINAL INTERNAL SIZE REQUIRED. IMPALE ON WELDED STUDS SPACED 16" O.C. PAINT BREAKS AND JOINTS WITH BF-60-30N FIRE RETARDANT MASTIC. COAT EXPOSED EDGES WITH ADHESIVE. PROJECTING FASTENERS AND ENDS CUT OFF VERTICALLY FLUSH.
7 INSULATION ON PIPING IN FINISHED AREAS TO BE RECANVASSED OR COVERED WITH WHITE P.V.C. INSULATION COVER.
8 INSULATE CONDITIONED AIR DUCTWORK WITH 1" FIBERGLAS RFRK [FLEXIBLE] [RIGID] DUCT INSULATION INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
9 INSULATE OUTDOOR AIR DUCTWORK WITH 2" FIBERGLAS RFRK [FLEXIBLE] [RIGID] DUCT INSULATION INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

MECHANICAL SPEC'S CONTINUED:

3.0 PLUMBING
1 PROVIDE LABOUR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO SUPPLY AND INSTALLATION OF SYSTEMS SHOWN ON DRAWINGS. GENERALLY THIS SHALL INCLUDE:
1 DRAINAGE SYSTEM
2 WATER SUPPLY SYSTEM
2 DRAINAGE SYSTEMS
1 PROVIDE COMPLETE SYSTEMS OF DRAINAGE AND VENTING TO SERVE ALL FIXTURES, EQUIPMENT, ETC. AS NOTED ON DRAWINGS AND IN ACCORDANCE WITH LOCAL CODES.
2 ALL DRAINAGE PIPING TO W.C.'S SHALL BE 4" DIAM. MIN.
3 CLEANOUTS:
1 INSTALL CLEANOUTS AT ALL CHANGES OF DIRECTION, AT INTERVALS OF NOT OVER FIFTY FEET (50) IN HORIZONTAL RUNS, AT ALL POINTS WHERE OBSTRUCTIONS MIGHT BE FORMED AND AT ALL POINTS REQUIRED BY PLUMBING REGULATIONS OR SHOWN ON DRAWINGS.
3 WATER SUPPLY
1 PROVIDE COMPLETE SYSTEM OF WATER SUPPLY PIPING AS NOTED ON DRAWINGS.
2 GRADE HORIZONTAL RUNS OF PIPING TO DRAIN THROUGH RISERS.
3 INSTALL DRAIN VALVES IN MAINS FOR COMPLETE DRAINAGE.
4 INSTALL DIELECTRIC INSULATING COUPLINGS BETWEEN ALL PIPES CONSTRUCTED OF DISSIMILAR METALS.
5 PROVIDE SHOCK ABSORBER UPSTREAM OF EVERY SOLENOID VALVE OR QUICK CLOSING VALVE. THIS APPLIES ALSO TO NIC EQUIPMENT HAVING SOLENOID VALVES SUPPLIED BY OTHER DIVISIONS, SUCH AS WASHING MACHINES, DISHWASHERS, ETC. REVIEW PROPOSED LOCATION AND TYPE OF SHOCK ABSORBERS WITH CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION.
4 DRAIN AND VENT PIPING
1 PIPE AND FITTINGS SHALL CONFORM TO STANDARDS LISTED IN APPLICABLE BUILDING CODE (LATEST REVISION).
2 ALL CAST IRON SOIL PIPE SHALL BE CLASS 4000.
3 NO PLASTIC, ASBESTOS OR ALUMINUM PIPE WILL BE ACCEPTED UNLESS SPECIFICALLY CALLED FOR.
5 WATER PIPING
1 PIPE - TYPE 1" THIRD PARTY CERTIFIED HARD COPPER TUBE.
2 FITTINGS - WROT OR CAST SOLDER JOINT.
6 BALL VALVES
1 TOYO FIG. 5049A.
7 CLEANOUTS
1 CLEANOUTS IN CAST IRON SOIL PIPE SHALL CONSIST OF CAST IRON FERRULE WITH BRASS PLUG HAVING RAISED HEAD.
2 CLEANOUTS IN COPPER DRAINAGE TUBE SHALL BE BRASS SCREWED PLUGS WITH RAISED HEAD.
8 CLEANOUT ACCESS COVER
1 ZURN ZANB-1460-13-7" DIAM. POLISHED NICKEL BRONZE FRAME AND COVER. CLEANOUT ACCESS COVERS IN AREAS HAVING FLOOR FINISH SUCH AS V.A. TILE, TERRAZZO, OR CARPET, SHALL BE SELECTED TO SUIT FINISH. COOPERATE WITH APPROPRIATE TRADES TO APPLY FINISH TO CLEANOUT COVERS SO THAT THEY WILL BE FLUSH WITH FLOOR, INCONSPICUOUS, AND ACCESSIBLE.
2 CLEANOUTS IN WALLS SHALL BE LOCATED ADJACENT TO AN ACCESS DOOR, OR SHALL HAVE SUITABLY FINISHED ACCESS COVER FLUSH WITH WALL SO AS TO PRESENT NEAT FINISHED APPEARANCE AND LEAVE CLEANOUT EASILY ACCESSIBLE.
9 JOINTING
1 MAKE ALL JOINTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2 BRACE FITTINGS NECESSARY TO PREVENT JOINTS FROM COMING APART UNDER PRESSURE.
3 MAKE JOINTS IN DOMESTIC WATER AND DRAINAGE SYSTEMS WITH SOLDER CONTAINING NO LEAD. SOLDER MATERIAL SHALL BE SILVERBRITTE 100 OR EQUAL CONSISTING OF COMBINATION OF TIN, COPPER AND SILVER.
10 CLEANING AND FLUSHING
1 ON COMPLETION, FLUSH OUT PIPING SYSTEM TO REMOVE ANY FOREIGN MATERIAL IN PIPING.
11 TESTING
1 PRESSURE TEST ALL PIPING SYSTEMS AS FOLLOWS:
1 PLUMBING SYSTEM - IN ACCORDANCE WITH LOCAL REGULATIONS.
2 WATER SUPPLY PIPING - TEST WITH WATER TO 100 PSIG AT HIGHEST POINT OF SYSTEM. MAINTAIN PRESSURE WITHOUT LOSS FOR 4 HOURS.
3 CONSULTANT'S REPRESENTATIVE SHALL WITNESS TESTS. GIVE 48 HOURS NOTICE IN ADVANCE OF TESTS.
4 NATURAL GAS SYSTEM - IN ACCORDANCE WITH LOCAL REGULATIONS.
12 HANGERS
1 WATER - GRINNELL C765 PLATED CLEVIS.
2 DRAINAGE - GRINNELL 260 CLEVIS.
3 INSTALL HANGERS 6 FT. ON CENTRE FOR PIPES UP TO 1", 8 FT. ON CENTRE FOR PIPES 1 1/4" AND LARGER.
13 FIXTURES
1 WC-1 WATER CLOSET-BARRIER FREE
1 CAROMA SYDNEY SMART II ONE PIECE EASY HEIGHT ELONGATED WITH SIDE LEVER, 1.28/0.8 GPF WATER SAVING DUAL FLUSH HIGH EFFICIENCY TOILET. ONE PIECE ULTRA LOW FLUSH VITREOUS CHINA WASHDOWN TOILET #987200. FLOOR MOUNTED, RIGHT HAND LEVER. SOFT CLOSE ELONGATED SEAT. COLOR: WHITE. ADA COMPLIANT.
2 WC-2 WATER CLOSET
1 AMERICAN STANDARD MADERA™ FLOWISE® 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET. FLOOR MOUNT FLUSHOMETER VALVE TOILET, VITREOUS CHINA, HIGH EFFICIENCY, LOW CONSUMPTION. OPERATES IN THE RANGE OF 1.1 GPF TO 1.6 GPF (4.2 LPF TO 6.0 LPF), MEETS DEFINITION OF HET (HIGH EFFICIENCY TOILET) WHEN USED WITH A HIGH EFFICIENCY FLUSH VALVE (1.28 GPF OR 1.6 / 1.1 GPF DUAL FLUSH), PERMANENT EVERCLEAN® SURFACE INHIBITS THE GROWTH OF STAIN AND ODOR-CAUSING BACTERIA, MOLD, AND MILDEW ON THE SURFACE, FULLY GLAZED 2-1/8" TRAPWAY, ELONGATED BOWL, 10" OR 12" ROUGHING-IN, 16-1/2" RIM HEIGHT FOR ACCESSIBLE APPLICATION, CONDENSATION CHANNEL, POWERFUL DIRECT-FED SIPHON JET ACTION, 10" X 12" WATER SURFACE AREA, 1-1/2" INLET SPUD 2 BOLT CAPS. COLOR: WHITE. SEAT: AMERICAN STANDARD #5905.100 EXTRA HEAVY DUTY OPEN FRONT LESS COVER. ELECTRONIC, SENSOR ACTIVATED TOILET FLUSH VALVE SHALL FEATURE SELF-CLEANING PISTON VALVE WITH INTEGRAL WIPER SPRING IN REFILL ORIFICE TO PREVENT CLOGGING. INCLUDES A LONG-LIFE BATTERY PACK (WITH 10 YEAR LIFE) AND FULLY MECHANICAL MANUAL OVERRIDE THAT CAN FLUSH THE VALVE WITHOUT POWER. INCLUDES DEZINCIFICATION-RESISTANT BRASS VALVE BODY AND METAL COVER WITH CHROME FINISH. INCLUDES ANGLE STOP WITH BACK-FLOW PROTECTION & VANDAL-RESISTANT CAP. SWEAT SOLDER KIT AND HIGH BACK PRESSURE VACUUM BREAKER ALSO INCLUDED. 1.28 GPF / 4.8 LPF FLUSH VALVE SHALL BE AMERICAN STANDARD MODEL # 6066.121.002.
3 SH-1 SHOWER AND TRIM
1 MAAX ACRYLIC SHOWER, PRODUCT: CAMELIA SH-4834 2-PIECE SHOWER UNIT, MODEL#105919-S-000-001, NO SEAT, CENTER DRAIN; SIZE: 48"W X34.5"D X 79"H. COLOR: WHITE; OPTIONAL 48" CURTAIN ROD

MECHANICAL SPEC'S CONTINUED:

2 SINGLE-FUNCTION WALL-MOUNT SHOWERHEAD SHALL BE KOHLER MODEL K-10282-AK. MINIMIZES WASTEFUL OVERSPRAY AND INCREASES CLEANING AND HAIR-RINSING PERFORMANCE. 2.5 GPM (9.5 LPM) MAXIMUM FLOW RATE. SINGLE FUNCTION SHOWERHEAD WITH 66 NOZZLE 5-1/2" (140 MM) DIAMETER SPRAY FACE. KATALYST® AIR-INDUCTION TECHNOLOGY MAXIMIZES THE AIR/WATER MIX FOR A POWERFUL, EVEN FLOW. OPTIMIZED SPRAYFACE FOR MAXIMUM PERFORMANCE. MASTERCLEAN® SPRAY NOZZLES TO PROHIBIT MINERAL BUILD-UP FOR EASY CLEANING. 1/2" NPT CONNECTION. KOHLER FORTE RITE-TEMP® SHOWER VALVE TRIM K-TLS10276-4. INCLUDES FACE PLATE WITH HANDLE, SHOWER ARM AND FLANGE. SINGLE HANDLE CONTROLS BOTH ON/OFF ACTIVATION AND TEMPERATURE SETTINGS. SUPPLIED WITH METAL SCULPTED HANDLE. KOHLER RITE-TEMP VALVE BODY AND CARTRIDGE KIT COMPLETE K-8304-K. INCLUDES VALVE BODY, PRESSURE BALANCE CARTRIDGE, ROUGH-IN GUIDE, AND MUDGUARD. 1/2" UNIVERSAL NPT & DIRECT SWEAT INLETS & OUTLETS. 5.0 GPM (18.9 L/MIN) MAXIMUM FLOW RATE AT 45 PSI. SINGLE LEVER DESIGN CYCLES FROM OFF THROUGH COLD TO HOT. PROVIDES TEMPERATURE REGULATION AND AUTOMATIC ANTI-SCALD PROTECTION. ONE PIECE CARTRIDGE DESIGN SIMPLIFIES INSTALLATION AND MAINTENANCE. ADJUSTABLE HIGH TEMPERATURE LIMIT STOP TO CONTROL MAXIMUM WATER TEMPERATURE. DRAIN SHALL BE KOHLER MODEL K-9132-CP.
4 SH-2 SHOWER AND TRIM
1 MAAX ACRYLIC SHOWER, PRODUCT: CAMELIA SH-4834 2-PIECE SHOWER UNIT, MODEL# 105919-S-000-001, CENTER DRAIN; SIZE: 36"W X36"0" X 79"H. COLOR: WHITE; OPTIONAL 36" CURTAIN ROD.
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5 LAV-1 UTR ROOM SINK
1 AMERICAN STANDARD MURRO UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN, VITREOUS CHINA WITH EVERCLEAN; LESS OVERFLOW; RECESSED SELF-DRAINING DECK; FOR CONCEALED ARM OR WALL SUPPORT; VITREOUS CHINA SHROUD/KNEE CONTACT GUARD 0059.020EC ADA AND TAS COMPLIANT. NOMINAL DIMENSIONS: 520MM (20.5") DEEP, 540MM (21-1/4") WIDE; BOWL SIZES: 394MM (15-1/2") WIDE, 343MM (13-1/2"), FRONT TO BACK, 127MM (5") DEEP; COLOR WHITE.
2 THE LAV-1 FAUCET SHALL BE DELTA/TECK COMMERCIAL LAVATORY FAUCET MODEL 591T1220. SUPPLIED AS COMPLETE PRODUCT, 102MM (4") ELECTRONIC FAUCET; CAST ONE-PIECE SYNERGY BODY WITH INTEGRAL WATERPROOF SENSOR AND CONNECTOR; POLISHED CHROME PLATED TRIM; BATTERY (4 'C' CELL); INFRARED ELECTRONIC HANDWASH; H2OPTICS™ TECHNOLOGY - NO EXTERNAL ADJUSTMENTS REQUIRED; ADJUSTABLE SENSING RANGE AND TIMEOUT; AUDIBLE LOW BATTERY INDICATOR; SERVICEABLE FILTER SCREEN UPSTREAM OF THE VALVE; METAL HOLD-DOWN PACKAGE; TEMPERED WATER SUPPLIED TO SOLENOID VALVE, 1.5 GPM.
3 THERMOSTATIC MIXING VALVE SHALL BE DELTA (TECK COMMERCIAL) MODEL R3070-MIXLF. POINT OF USE THERMOSTATIC MIXING VALVE. THERMOSTATIC ELEMENT SENSES THE OUTLET WATER TEMPERATURE AND REACTS TO MAINTAIN A CONSTANT DELIVERY TEMPERATURE EVEN UNDER CHANGING FLOWS OR VARIATIONS IN SUPPLY TEMPERATURES OR PRESSURES, INTEGRAL CHECK VALVES IN HOT AND COLD INLETS TO PREVENT CROSSFLOW, FORGED BRASS BODY CONSTRUCTION, OUTLET TEMPERATURE RANGE 95 - 120°F (35 - 49°C), MAXIMUM FLOW RATE 5.8 GPM (22 L/MIN) @ 45 PSI PRESSURE LOSS. MINIMUM FLOW RATE 0.35 GPM (1.3 L/MIN), MAXIMUM WORKING PRESSURE 230 PSI (1600 KPA), PRESSURE DIFFERENCE BETWEEN HOT AND COLD SHALL BE LESS THAN 20%, MAXIMUM HOT WATER SUPPLY TEMPERATURE 195°F (90°C), MINIMUM 15°F GREATER THAN OUTLET TEMPERATURE, INLETS/OUTLETS: 3/8" COMPRESSION, SNAP-ON COVER OVER A SPINDLE MECHANISM THAT REQUIRES A SPECIAL TOOL TO ADJUST TEMPERATURE. THIS SPECIAL TOOL IS PROVIDED WITH EACH VALVE, REGULATING PISTON MADE FROM ENGINEERED POLYMER, OUTLET FLOW REDUCED TO A TRICKLE IN THE EVENT OF A COLD WATER SUPPLY FAILURE.
4 THE LAV-1 DRAINAGE/SUPPLIES SHALL BE DELTA MODEL 337311, 1-1/4" P TRAP, 14-1/2" FROM CENTERLINE OF INLET TO OUTLET, WITH CLEANOUT PLUG, POLISHED CHROME PLATED, CAST BRASS BODY, ADJUSTABLE.
6 LAV-2 WASHROOM SINK
1 WASHROOM SINK SHALL BE KOHLER PINOIR WALL-MOUNT BATHROOM SINK, MODEL K-2028-1. VITREOUS CHINA, SINGLE FAUCET HOLE, OVAL BASIN, OVERFLOW DRAIN, COMBINES WITH K-2057 SHROUD TO CREATE K-2035-1 PINOIR WALL-MOUNT BATHROOM SINK. COLOR: WHITE. LENGTH 18", WIDTH 12" WATER DEPTH 4".
2 WASHROOM SINK FAUCET SHALL BE TOTO STANDARD ECOPOWER FAUCET, TOTO MODEL #TEL105-C20E. THE FAUCET SHALL HAVE HYDROPOWERED SELF-GENERATING, ECOPOWER SYSTEM. THE FAUCET SHALL HAVE MAXIMUM OF 20 SECONDS CONTINUOUS FLOW (0.19GPC), PRODUCT SHALL HAVE ANTI-SCALD SHAPE MEMORY ALLOY THERMOSTATIC MIXING VALVE. THE FAUCET SHALL HAVE SELF-ADJUSTING SENSOR.
7 SK-1 ISLAND DOUBLE SINK
1 ISLAND DOUBLE SINK IS CUSTOM MOLDED INTO THE STAINLESS-STEEL TOP, AND PROVIDED BY STAINLESS STEEL FABRICATOR. SEE ARCHITECTURAL SPECS FOR MORE DETAILS.
2 REUSE EXISTING KITCHEN DOUBLE SINK FAUCET AND HOLDER.
8 SK-2 HAND WASH SINK
1 KINDRED STAINLESS STEEL SINK, SERIES STEEL QUEEN, MODEL QSL1515-6-1, FINISH STAINLESS STEEL, PRODUCT LINE HOSPITALITY, INSTALLATION TOPMOUNT. WIDTH OVERALL 15 7/16"; LENGTH OVERALL 15 1/8"; WIDTH OF LARGE BOWL 11"; LENGTH OF LARGE BOWL 13"; DEPTH OF LARGE BOWL 6"; CABINET SIZE 18"; NUMBER OF BOWLS 1; WASTE OUTLET DIAMETER 3 1/2"; CUT-OUT TEMPLATE YES; FAUCET HOLE 1"; TYPE OF MATERIAL 20 GAUGE STAINLESS STEEL; SURFACE FINISH H-HIGH-GLOSS/MIRROR; WASTE KIT INCLUDED YES; EZ TORQUE INSTALLATION YES
3 HAND WASH SINK FAUCET, T&S MODEL EC-3100, CHROME PLATED BRASS ELECTRONIC FAUCET; DECK MOUNT RIGID GOOSENECK W/VR AERATOR, ACIDC CONTROL MODULE WITH INTERNAL FLOW CONTROL SETTING SWITCHES, TEMPERATURE CONTROL MIXING VALVE W/ CHECK VALVES, 18" HOT & COLD SUPPLY STOP FLEXIBLE CONNECTOR HOSES

MECHANICAL SPEC'S CONTINUED:

9 SK-3 COFFEE SINK
1 KINDRED STAINLESS STEEL SINK, SERIES STEEL QUEEN, MODEL QSLF2020-12-3, FINISH STAINLESS STEEL, INSTALLATION TYPE: DUAL MOUNT
2 WIDTH OVERALL 20 9/16"; LENGTH OVERALL 20 1/8"; WIDTH OF LARGE BOWL 16"; LENGTH OF LARGE BOWL 18"; DEPTH OF LARGE BOWL 12"; CABINET SIZE 21"; NUMBER OF BOWLS 1; WASTE OUTLET DIAMETER 3 1/2"; CUT-OUT TEMPLATE YES; FAUCET HOLE 3"; TYPE OF MATERIAL 20 GAUGE STAINLESS STEEL; SURFACE FINISH COMMERCIAL SATIN; SPECIAL FEATURE DUALMOUNT
3 DELTA KITCHEN FAUCET, SINGLE HANDLE PULL-DOWN, MODEL 9182-DST WITH ESCUTCHEON RP47274, MAX FLOW RATE 1.8 GPM @ 60 PSI; ONE OR THREE HOLE MOUNT (ESCUTCHEON INCLUDED WITH KITCHEN MODELS; DIAMOND COATED CERAMIC CARTRIDGE; 3/8" O.D. STRAIGHT, STAGGERED PEX SUPPLY LINES; SPOUT ROTATES 360°; HOT/COLD INDICATOR MARKINGS; DUAL INTEGRAL CHECK VALVES IN SPRAYER ASSEMBLY; THREE-FUNCTION WAND; AERATED STREAM, SPRAY OR SHIELDSPRAY™.
10 SK-4 LAUNDRY SINK
1 101684-006 SP1P MAAX SUPER POLY SINGLE LAUNDRY TUB C&W LEGS, 22"X24"X12", LUMICOAT STAINLESS STEEL FINISH.
2 LAUNDRY SINK; TYPE SINGLE BOWL; APPLICABLE STANDARD UL, ETL; LENGTH 24 INCH; WIDTH 22 INCH; HEIGHT 12 INCH; MATERIAL POLYPROPYLENE; INCLUSIONS/FEATURES DESIGNED TO STAND UP TO THE HARSHEST EVERYDAY TREATMENT, FORMULATED TO RESIST LAUNDRY BLEACH AND DETERGENT; EXCLUSIONS STRAINER.
3 DELTA LAUNDRY FAUCET, TWO HANDLE DECK FAUCETS FOR EXPOSED MOUNTING ON 2 OR 3 HOLE SINKS; SOLID BRASS CAST BODY; 4" (102 MM) CENTERSET; 7" (178 MM) LONG, 4 5/8" (117 MM) HIGH SPOUT SWINGS 360°; HOT AND COLD STEMS ARE INTERCHANGEABLE; CONTROL MECHANISM SHALL BE OF THE ROTATING CYLINDER TYPE WITH STAINLESS STEEL PLATE AND 90° ROTATION, WITH REPLACEABLE NON-METALLIC SEATS; 1/2"-1/4" NPSM THREADED MALE SHANKS; SPOUT HAS HOSE THREAD.
11 FD-1 FLOOR DRAIN
1 WATTS FD-100 SERIES, EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE MEMBRANE CLAMP WITH WEEP HOLES, 1/2" THICK, 6" ROUND ADJUSTABLE NICKEL BRONZE DRAIN AND NO HUB OUTLET. SIZE DRAIN BODY TO MATCH REQUIRED PIPE SIZING ON DRAWINGS.
2 OPTIONS: VANDAL PROOF
12 DRINKING FOUNTAIN
1 DF-1 DRINKING FOUNTAIN
1 ELKAY E2H20® REFRIGERATED SURFACE MOUNT BOTTLE FILLING STATION, NONFILTERED 8GPH STAINLESS STEEL, CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE ANTIMICROBIAL, HANDS FREE, LAMINAR FLOW, REAL DRAIN, ELECTRONIC BOTTLE FILLER SENSOR ACTIVATION, PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S), UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120. UNIT SHALL BE LEAD-FREE DESIGN WHICH IS CERTIFIED TO NSF/ANSI 61 & 372 (LEAD FREE) AND MEETS FEDERAL AND STATE LOW-LEAD REQUIREMENTS.

Table with 4 columns: No., REVISION/DESCRIPTION, BY, DATE. Row 1: 1 ISSUED FOR ADDENDUM #1, EAG, NOV 30 2021. Row 2: 0 ISSUED FOR CONSTRUCTION, EAG, OCT 28 2021.



Table with 4 columns: DRAWN, CHECKED, DESIGNED, APPROVED. Date: 2021/04/14. User: APPROVAL.

THE CITY OF WINNIPEG MUNICIPAL ACCOMMODATIONS DEPARTMENT ASSET AND PROJECT MANAGEMENT DIVISION 3-65 GARRY STREET, R3C 4K4

PROJECT: WINNIPEG FIRE PARAMEDIC SERVICES FIRE STATION #1 INTERIOR RENOVATIONS 65 ELLEN ST.

SHEET TITLE: MECHANICAL SPECIFICATIONS SHEET 1 OF 2

Table with 3 columns: SCALE, PROJECT No., SHEET No. AS SHOWN, 2019-075, M8-R1.