# PLUMBING EQUIPMENT SCHEDULE

| TAG | | EQUIPMENT | DESCRIPTION | MANUFACTURER | FLOW | SYSTEM HEAD | ELECTRICAL DATA MOTOR HP | VOLTAGE | PHASE | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| AC | 1 | AIR COMPRESSOR | SINGLE STAGE, VERTICAL ORIENTATION, 60 GALLON TANK, SPLASH LUBRICATED, 135 MAX PSI, MANUAL DRAIN WITH BALL VALVE, 22 FLA, 30 AMP MOCP. | CAMPBELL HAUSFELD MODEL: CE4104 | 9.8 CFM @ 135 PSI | - | 3.7 | 208 | 1 | |
| CVC | 1 | CELL VALVE CONTROLLER | WATER MANAGEMENT SYSTEM CONTROL PANEL/TRANSFORMER. LOCATION AND QUANTITY OF FIXTURES CONTROL BY EACH CVC SHALL BE AS REQUIRED BY MANUFACTURER. | WILLOUGHBY WMSII | - | - | - | 115 | 1 | REFER TO DETAILS ON SHEET P5.3. |
| DET | 1 | DOMESTIC WATER EXPANSION TANK | EXPANSION TANK: ASME RATED, DIAPHRAGM TYPE STEEL TANK CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION E OF THE CURRENT ASME BOILER AND PRESSURE VESSEL CODE. PRE-CHARGED VESSEL. PROVIDE PRESSURE RELIEF VALVE. 5.3 GALLON TANK VOLUME, REQUIRED ACCEPTANCE 4.44 GALLON, ACTUAL TANK VOLUME 8.0 GALLON, ACTUAL ACCEPTANCE 5.3 GALLON, VERTICAL STANDING ORIENTATION, 12" DIA. x 21" HEIGHT. | BELL & GOSSETT MODEL: PTA-20V | - | - | - | - | - | |
| DWBP | 1 | DOMESTIC WATER BOOSTER PUMP | DOMESTIC WATER BOOSTER PUMP: TWO (2) NSF CERTIFIED, END SUCTION PUMPS. PUMP CONSTRUCTION IS FORMED 304 STAINLESS STEEL WITH MECHANICAL SEAL. INCLUDE SUCTION AND DISCHARGE SIDE ISOLATING BUTTERFLY VALVES, CHECK VALVES, AND FLANGED SUCTION AND DISCHARGE HEADERS. INCLUDE CONTROL PANEL WITH NON-FUSED DISCONNECT, PLC OPERATION, SEQUENCING, DATA AND FAULT LOGS, ALARM HORN, TOUCHSCREEN, VARIABLE FREQUENCY DRIVES. PROVIDE 45 PSI PRESSURE INCREASE. | XYLEM MODEL: 3SSV11GB30 | 240 | 60 | (2) @ 5 | 460 | 3 | INTERFACE WITH BUILDING MANAGEMENT SYSTEM. ■ SET TO 70 PSI. |
| GD | 1 | GARBAGE DISPOSAL | PERMANENTLY LUBRICATED UPPER AND LOWER BEARINGS, 12-1/4" OVERALL HEIGHT, ANTI-VIBRATION MOUNT, MANUAL RESET OVERLOAD, 1-1/2" ANTI-VIBRATION HOSE CLAMP, WALL SWITCH, AND POWER CORD ATTACHMENT. | IN-SINK-ERATOR: MODEL EVOLUTION COMPACT | - | - | 0.75 | 120 | 1 | COORDINATE WALL SWITCH LOCATION ABOVE COUNTERTOP. REFER TO ARCHITECTURAL DRAWINGS. |
| RCP | 1 | HOT WATER RECIRCULATION PUMP | HOT WATER RECIRCULATION PUMP: HIGH EFFICIENCY ELECTRONICALLY COMMUTATED PERMANENT MAGNET MOTOR (ECM/PM). LEAD FREE BRONZE BODY DESIGNED FOR POTABLE WATER PLUMBING SYSTEMS. STAINLESS STEEL IMPELLER AND SHAFT, PERMANENT MAGNET ROTOR, CARBON SLEEVE BEARING, EPDM GASKET/O-RING, ALL OTHER WETTED PARTS STAINLESS STEEL. | BELL & GOSSETT ECOCIRC MODEL: XL 36-45 | 10 | 15 | 0.166 | 115 | 1 | |
| RO | 1 | REVERSE OSMOSIS SYSTEM | PACKAGED SYSTEM SERVING KITCHEN EQUIPMENT. DELIVERS 3000 GALLONS PER DAY OF RO WATER. SYSTEM INCLUDED RO UNIT, PRE AND POST FILTERS, SYSTEM PUMP, SEDIMENT PRE-FILTER, 44 GALLON STORAGE TANK, REMINERALIZED RO WATER TANK, AND DELIVERY PUMP. PROGRAMMABLE WATER QUALITY (TDS) AND RECOVERY RATE DIGITALLY MEASURED AND ALARMED IF OUT OF SPECIFICATION. COLLECTS AND STORES DATA ON USAGE, FILTER LIFE, AND RECOVERY RATE. INCLUDE AUTOMATIC BYPASS OPTION. | EASYWATER SMARTGUARD RO MODEL SG3000 | - | - | - | 120 | 1 | ADD ALTERNATE. CARBON PRE-FILTER REQ'S 110V OUTLET. PROVIDE STARTER. SEE DETAIL 5/P5.2. |
| TP | 1 | TRAP PRIMER VALVE | (2) 1/2"CW CONNECTION, AUTOMATIC PRESSURE DROP ACTIVATED TRAP PRIMER VALVE. SYSTEM OPERATING RANGE IS 20 PSI TO 80 PSI MAXIMUM. 10 PSI PRESSURE DROP REQUIRED TO ACTIVATE. CONSTRUCTED OF 360 BRASS, EPDM E70 O-RINGS, DOW #7 SILICONE, #60 STAINLESS STEEL MESH SCREEN | PPP MODEL PR-500 | - | - | - | - | - | PROVIDE INDIVIDULE 1/2" TP PIPE BELOW FLOOR TO DRAINS INDICATED. |
| TP | 2 | TRAP PRIMER MANIFOLD | 12"x12"x4" RECESSED ENCLOSURE, NEMA-1 WITH COVER PLATE, 3/4" INLET, SIX (6) 1/2" OUTLETS, CIRCUIT BREAKER, MANUAL OVERRIDE SWITCH/TEST BUTTON, TIMER, UL-LISTED SOLENOID VALVE, ANTI-SIPHONIC ATMOSPHERIC VACUUM BREAKER. | PPP MODEL PT-10 | - | - | 2 AMP FUSE | 115 | 1 | PROVIDE INDIVIDULE 1/2" TP PIPE BELOW FLOOR TO DRAINS INDICATED. |
| WH | 1 | WATER HEATER | GAS-FIRED WATER HEATER: 1060 MBH INPUT, 1007 MBH OUTPUT, NATURAL GAS, CONDENSING, FULLY MODULATING WATER HEATER, STAINLESS STEEL HEAT EXCHANGER, 160 PSIG ASME WORKING PRESSURE CERTIFIED, INTEGRAL SEQUENCING CONTROLS, 21:1 TURNDOWN RATIO. UNIT SHALL BE CAPABLE OF HEATING 1536 GPH FROM 40°F TO 120°F. MAX GAS INPUT PRESSURE OF 14" W.C. MANUFACTURER PROVIDED WATER HEATER MANAGEMENT SYSTEM AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. | AERCO MODEL: 1060 | - | - | - | 120 | 1 | |
| WH | 2 | WATER HEATER | GAS-FIRED WATER HEATER: 1060 MBH INPUT, 1007 MBH OUTPUT, NATURAL GAS, CONDENSING, FULLY MODULATING WATER HEATER, STAINLESS STEEL HEAT EXCHANGER, 160 PSIG ASME WORKING PRESSURE CERTIFIED, INTEGRAL SEQUENCING CONTROLS, 21:1 TURNDOWN RATIO. UNIT SHALL BE CAPABLE OF HEATING 1536 GPH FROM 40°F TO 120°F. MAX GAS INPUT PRESSURE OF 14" W.C. MANUFACTURER PROVIDED WATER HEATER MANAGEMENT SYSTEM AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. | AERCO MODEL: 1060 | - | - | - | 120 | 1 | |
| WH | 3 | WATER HEATER | GAS-FIRED WATER HEATER: 1060 MBH INPUT, 1007 MBH OUTPUT, NATURAL GAS, CONDENSING, FULLY MODULATING WATER HEATER, STAINLESS STEEL HEAT EXCHANGER, 160 PSIG ASME WORKING PRESSURE CERTIFIED, INTEGRAL SEQUENCING CONTROLS, 21:1 TURNDOWN RATIO. UNIT SHALL BE CAPABLE OF HEATING 1536 GPH FROM 40°F TO 120°F. MAX GAS INPUT PRESSURE OF 14" W.C. MANUFACTURER PROVIDED WATER HEATER MANAGEMENT SYSTEM AND INTERFACE WITH BUILDING MANAGEMENT SYSTEM. | AERCO MODEL: 1060 A3 | - | - | - | 120 | 1 | |
| WH | FUT | WATER HEATER | FUTURE WATER HEATER | | - | - | - | - | - | |
| WS | 1 | WATER SOFTENER | DUPLEX WATER SOFTENER: ASME RATED AND STAMPED 125 PSI, PROGRESSIVE FLOW, 35 CUBIC FEET OF RESIN PER TANK, 250 GPM CONTINUOUS FLOW, INTEGRATED LOW-FLOW RECIRCULATION PUMP SYSTEM. ALL SKID MOUNTED, PRE-PIPED AND PRE-WIRED AT THE MANUFACTURER. | NANCREDE MODEL: NHC-1050-4 TWIN WITH AB1400 PLC, 4" SS PIPING | 480 | - | - | 120 | 1 | BUTTERFLY VALVES WITH ELECTRIC ACTUATORS |
| WTS | 1 | WATER TREATMENT SYSTEM | NO-SALT WATER CONDITIONING SYSTEM: NON-INVASIVE TYPE ELECTRONIC DESCALING SYSTEM WHICH SENDS INDUCED OSCILLATING ELECTRICAL FIELDS THROUGH PIPE WALL PRODUCING MOLECULAR AGITATION. SIGNALL WIRE SHALL WRAP OUTSIDE PIPE AND TREAT A DEDICATED 24" SECTION OF 2-1/2" DIA. COPPER CW MAIN SERVING WH-1 NEARBY. UNIT SHALL HAVE 5 YEAR WARRANTY, 110V OUTLET PLUG, ON/OFF SWITCH, POWER, DESCALING, AND OVERLOAD LIGHTS. | EASYWATER MODEL CS500 | - | - | - | 120 | 1 | INSTALL WIRE WRAP PER MANUFACTURER RECOMMENDATION |
| WTS | 2 | WATER TREATMENT SYSTEM | NO-SALT WATER CONDITIONING SYSTEM: NON-INVASIVE TYPE ELECTRONIC DESCALING SYSTEM WHICH SENDS INDUCED OSCILLATING ELECTRICAL FIELDS THROUGH PIPE WALL PRODUCING MOLECULAR AGITATION. SIGNALL WIRE SHALL WRAP OUTSIDE PIPE AND TREAT A DEDICATED 24" SECTION OF 2-1/2" DIA. COPPER CW MAIN SERVING WH-2 NEARBY. UNIT SHALL HAVE 5 YEAR WARRANTY, 110V OUTLET PLUG, ON/OFF SWITCH, POWER, DESCALING, AND OVERLOAD LIGHTS. | EASYWATER MODEL CS500 | - | - | - | 120 | 1 | INSTALL WIRE WRAP PER MANUFACTURER RECOMMENDATION |
| WTS | 3 | WATER TREATMENT SYSTEM | NO-SALT WATER CONDITIONING SYSTEM: NON-INVASIVE TYPE ELECTRONIC DESCALING SYSTEM WHICH SENDS INDUCED OSCILLATING ELECTRICAL FIELDS THROUGH PIPE WALL PRODUCING MOLECULAR AGITATION. SIGNALL WIRE SHALL WRAP OUTSIDE PIPE AND TREAT A DEDICATED 24" SECTION OF 2-1/2" DIA. COPPER CW MAIN SERVING WH-3 NEARBY. UNIT SHALL HAVE 5 YEAR WARRANTY, 110V OUTLET PLUG, ON/OFF SWITCH, POWER, DESCALING, AND OVERLOAD LIGHTS. | EASYWATER MODEL CS500 | - | - | - | 120 | 1 | INSTALL WIRE WRAP PER MANUFACTURER RECOMMENDATION |

# WATER HAMMER ARRESTOR SCHEDULE

| TYPE | FIXTURE UNIT RATING | I.P.S. | MODEL (J.R. SMITH) |
|---|---|---|---|
| WHA-A | 1-11 | 3/4" | 5005 |
| WHA-B | 12-32 | 1" | 5010 |
| WHA-C | 33-60 | 1" | 5020 |
| WHA-D | 61-113 | 1" | 5030 |

# GAS PRESSURE REDUCING VALVE SCHEDULE

| TAG | | GAS LOAD (CFH) | INLET PRESSURE (PSI) | MANUFACTURER | MODEL | WORKING PRESSURE MIN. (IN WC) | MAX. (IN WC) | EQUIPMENT SERVED |
|---|---|---|---|---|---|---|---|---|
| PRV | 1 | 200 | 2 | PIETRO FIORENTINI | 143-2-43311 | 7 | 14 | DEDICATED OUTSIDE AIR SYSTEM UNIT |
| PRV | 2 | 4240 | 2 | PIETRO FIORENTINI | F31154-5BP | 4 | 14 | WATER HEATERS |
| PRV | 3 | 670 | 2 | PIETRO FIORENTINI | F31154-5BP | 5 | 8 | LAUNDRY DRYERS |
| PRV | 4 | 350 | 2 | PIETRO FIORENTINI | 496-043B20-51211 | 7 | 14 | LAUNDRY MAKE-UP AIR UNIT |
| PRV | 5 | 300 | 2 | PIETRO FIORENTINI | 143-80-2 | 7 | 14 | KITHCEN MAKER-UP AIR UNIT |
| PRV | 6 | 855 | 2 | PIETRO FIORENTINI | F31154-5BP | 7 | 14 | KITCHEN APPLIANCES |
| PRV | 7 | 2250 | 2 | PIETRO FIORENTINI | F31154-5BP | 4 | 14 | BOILERS |
| PRV | 8 | 320 | 2 | PIETRO FIORENTINI | F31153-4BP | 5 | 14 | INFRARED HEATERS |

NOTE:
1. REFER TO DETAIL 7/5.1.

# MIXING VALVE SCHEDULE

| TAG | DESCRIPTION | BASIS OF DESIGN | FLOW (GPM) | PRESSURE DROP (PSI) | REMARKS |
|---|---|---|---|---|---|
| DMV-1 | ASSE 1017 MASTER DIGITAL MIXING VALVE MANIFOLD FOR POTABLE WATER. ONE (1) MIXING VALVE. MIXING VALVE HAVE INTEGRAL RTD SENSOR PER VALVE AND ADDITIONAL SENSORS FOR INLET HOT WATER, INLET COLD WATER, AND RETURN WATER TEMPERATURE PER VALVE. INTEGRAL PRESSURE SENSORS FOR INLET HOT WATER AND INLET COLD WATER PER VALVE. MANIFOLD ASSEMBLY WITH 3" INLETS, 3" OUTLET, AND 3" RETURN PIPING INLET AND OUTLETS. 0.25 GPM MINIMUM FLOW CAPACITY. AUTOMATIC HOT/COLD SHUTOFF UPON HOT/COLD WATER INLET SUPPLY FAILURE. USER PROGRAMMABLE FOR ON-SITE CONFIGURATION, HIGH-TEMP SANITIZATION MODE, AND HIGH/LOW TEMPERATURE ALARM. PROVIDE INTERFACE WITH BUILDING MANAGEMENT SYSTEM. DISPLAY OUTLET TEMPERATURE WITH OPTIONS TO DISPLAY 4 ADDITIONAL TEMPERATURE INPUTS, 1 FLOW CHANNEL INPUT, AND 1 CONFIGURABLE FLOW OR PRESSURE. UL LISTED 120V PLUG IN POWER SUPPLY WITH 6' CORD (1 PER VALVE). FACTORY ASSEMBLED AND TESTED. | LEONARD MODEL: NV-300-LF | 105 | 10 | SET TO 115°F |
| TMV-1 | ASSE 1069 RATED HIGH LOW THERMOSTATIC MIXING VALVE. DIAL THERMOMETER ON INLET AND OUTLET. INTEGRAL COMBINATION CHECK STOPS WITH STRAINERS AND WALL SUPPORT. TEMPERATURE CONTROL DOWN TO 0.5 GPM. COPPER ENCAPSULATED THERMOSTATIC ELEMENT ASSEMBLIES WITH TEFLON COATED SHUTTLE. | LEONARD MODEL: XL-690-LF-DT-IT | 20 | 15 | SET TO 105°F ■ PROVIDE TAP ON OUTLET PIPE FOR TEMPERATURE SENSOR |

# DOMESTIC WATER SUPPLY BACKFLOW PREVENTER SCHEDULE

| TAG | DESCRIPTION | BASIS OF DESIGN | REMARKS |
|---|---|---|---|
| RPZ-1 | REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER: ASSE 1013 APPROVED. MAIN BODY AND ACCESS COVER SHALL BE EPOXY COATED DUCTILE IRON (ASTM A 536 GRADE 4). THE SEAT RING AND CHECK VALVE SHALL BE NORYL, THE STEM SHALL BE STAINLESS STEEL (ASTM A 276) AND THE SEAT DISC ELASTOMERS SHALL BE EPDM. | ZURN / WILKINS MODEL: 375 ADA-6" | 9 PSI LOSS @ 350 GPM INSTALL PER MANUFACTURER REQUIREMENTS. |
| RPZ-2 | REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTER SHALL BE CERTIFIED TO NSF/ANSI/CAN 61, SHALL BE ASSE 1013, RATED TO 180 DEG-F, SUPPLIED WITH FULL PORT BALL VALVES. THE MAIN BODY AND ACCESS COVERS SHALL BE LOW LEAD BRONZE, SEAT RING AND ALL INTERNAL POLYMERS SHALL BE NORYL AND THE SEAT DISC ELASTOMERS SHALL BE SILICONE. THE FIRST AND SECOND CHECKS SHALL BE ACCESSIBLE FOR MAINTENANCE WITHOUT REMOVING RELIEF VALVE OR THE ENTIRE DEVICE FROM THE LINE. PROVIDE AIR GAP ADAPTER. | ZURN / WILKINS MODEL: 975XL2-2" | 13 PSI LOSS @ 50 GPM INSTALL PER MANUFACTURER REQUIREMENTS. |

# WATER PRESSURE REDUCING VALVE SCHEDULE

| TAG | | MANUFACTURER | MODEL | INLET PRESSURE (PSI) | OUTLET PRESSURE (PSE) | EQUIPMENT SERVED | REMARK |
|---|---|---|---|---|---|---|---|
| PRV | 9 | ZURN | ZW209 - 6" | GOVERNED BY DWBP | 70 | FACILITY WATER SUPPLY | 1, 2 |
| PRV | 10 | PIETRO FIORENTINI | 500XL - 1" | 70 | 25 | KITCHEN DISHWASHER HOT WATER SUPPLY | 1 |
| PRV | 11 | PIETRO FIORENTINI | 500XL - 2" | 70 | 50 | KITCHEN COLD WATER (S) | 1 |
| PRV | 12 | PIETRO FIORENTINI | 500XL - 2" | 70 | 50 | KITCHEN HOT WATER (120) | 1 |

NOTE:
1. REFER TO DETAIL 8/5.1.
2. PROVIDED FOR OVERPRESSURIZATION PROTECTION.


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JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER

| NO. | REVISION | DATE |
|---|---|---|
| A3 | ADDENDUM 3 | 02/16/22 |

DRAWN: SSB CHK'D: ESA
DESIGNED: SSB
APPRV'D: JRA
DATE: DECEMBER 20, 2021

PROJECT NUMBER 2063-1048-90

SULLIVAN COUNTY SHERIFF'S OFFICE AND CORRECTIONAL FACILITY
2357 NORTH SECTION STREET SULLIVAN, INDIANA 47882

PLUMBING EQUIPMENT SCHEDULES

DRAWING NUMBER
P6.2
PLUMBING


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