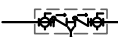


PLUMBING LEGEND					
	POINT OF CONNECTION – NEW TO EXISTING		ELBOW UP		REDUCED PRESSURE BACKFLOW PREVENTER
	EXISTING TO REMAIN,		ELBOW DOWN		HAMMER ARRESTOR
	EXISTING TO BE REMOVED,		TEE OUTLET UP		CAP ON END LINE
	DOMESTIC COLD WATER (CW)		TEE OUTLET DOWN		T&P RELIEF VALVE
	DOMESTIC HOT WATER (HW)		CONCENTRIC REDUCER		LINE CLEANOUT
	DOMESTIC HOT WATER RETURN (HWR)		UNION		DOUBLE CLEANOUT TO GRADE (DCOTG)
	SANITARY SEWER		STRAINER WITH BLOWDOWN VALVE		FLOOR CLEANOUT (FCO)
	SANITARY VENT		GATE VALVE		PRESSURE GAUGE WITH GAUGE COCK
	ACID WASTE		GLOBE VALVE		THERMOMETER
	ACID VENT		BALL VALVE		WATER METER
	STORM DRAIN		GAS VALVE		GAS REGULATOR
	NATURAL GAS		OS&Y VALVE		FLOW SWITCH
	MEDICAL GAS – VACUUM		CHECK VALVE		PRESSURE SWITCH
	MEDICAL GAS – AIR		LEVER OPERATED BUTTERFLY VALVE		SIAMESE CONNECTION
	MEDICAL GAS – OXYGEN		GEAR OPERATED BUTTERFLY VALVE		
	MEDICAL GAS – NITROUS OXIDE		PRESSURE REDUCING VALVE		
	NITROGEN		BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS		
	FIRE STANDPIPE / SPRINKLER PIPE				

GENERAL NOTES

- A. ALL WORK MUST COMPLY WITH THE REQUIREMENTS OF LOCAL CODES, AMENDMENTS AND ORDINANCES. WHERE INSPECTIONS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION, WORK MUST NOT BE CONCEALED UNTIL INSPECTIONS AND TESTING ARE COMPLETED AND ACCEPTED.
- B. ALL CONTRACT DOCUMENTS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE DRAWINGS.
- C. INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, MUST BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
- D. ALL SYSTEMS INSTALLATION MUST MAINTAIN INTEGRITY OF WALLS, PARTITIONS AND FLOORS DESIGNATED AS EITHER FIRE RATED OR "SMOKE TIGHT". SEAL AROUND ALL PENETRATIONS THROUGH RATED OR SMOKE TIGHT ASSEMBLIES. COORDINATE W/ARCHITECTURAL PLANS AND GC.
- E. REPLACE OR REPAIR ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK. REPAIR OR REPLACEMENT MUST, AS A MINIMUM, EQUAL ORIGINAL CONDITION. SPECIAL CARE MUST BE TAKEN ON THE ROOFS TO PREVENT DAMAGE. ANY DAMAGE MUST BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH BONDING REQUIREMENTS OF THE ROOFING MANUFACTURER.
- F. SEAL ALL ROOF AND WALL PENETRATIONS WATERTIGHT. FLASH AND COUNTER-FLASH ALL ROOF PENETRATIONS. MINIMUM ACCEPTABLE HEIGHT OF FLASHING IS TWELVE (12) INCHES ABOVE ROOF.
- G. PROVIDE PRESSURE REDUCERS IN WATER SUPPLY LINES TO KEEP PRESSURE BELOW 60 PSI AT ALL OUTLETS. MINIMUM PRESSURE ACCEPTABLE AT WATER OUTLETS IS 25 PSI AT DIRECT SUPPLY FLUSH VALVES, AND 8 PSI AT ALL OTHER OUTLETS. PROVIDE PRESSURE REDUCING VALVE (REGULATOR) AT DOMESTIC WATER SERVICE ENTRANCE, AS REQUIRED.
- H. ALL PLUMBING WORK MUST BE INSTALLED HIGH AS POSSIBLE SO AS TO MAINTAIN THE MAXIMUM POSSIBLE CLEARANCE ABOVE FINISHED FLOOR.
- I. CONTRACTOR MUST VERIFY UTILITIES LOCATIONS AND INVERTS WITH EXISTING PRIOR TO PLACEMENT OF SERVICES. ALL SYSTEMS MUST BE INSTALLED AS PER SPECIFICATIONS AND GOVERNING CODES.
- J. WHEN PIPING FIVE (5) INCH DIAMETER AND OVER IS SUPPORTED FROM BAR JOISTS, EACH HANGER IS TO BE SUPPORTED BY AT LEAST TWO JOISTS BY MEANS OF SUPPLEMENTAL STEEL TO SPAN BETWEEN ADJACENT JOISTS. PIPING SIX (6) INCH DIAMETER AND OVER MUST ADDITIONALLY BE SUPPORTED FROM TOP CHORD OF STRUCTURE. KEEP PIPING THIS SIZE WITHIN 5' OF COLUMN LINES UNLESS OTHERWISE INDICATED.
- K. ALL PIPE DROPS FROM ABOVE TO BELOW FLOOR MUST BE MADE IN FURR-OUTS AT COLUMNS, IN WEB OF BEAMS AT COLUMNS, OR IN WALLS UNLESS SHOWN OTHERWISE.
- L. PROVIDE SHUT-OFF VALVES AT ALL BRANCH WATER LINES, AND AT ALL BRANCHES IN WATER LINES TO INDIVIDUAL FIXTURES, GROUPS OF FIXTURES OR HOSE BIB. PROVIDE VALVE ABOVE CEILING IN BRANCH SERVING EACH WALL HYDRANT (IF APPLICABLE). INSTALL VALVES IN ACCESSIBLE LOCATIONS.
- M. PROVIDE WATER HAMMER ARRESTORS (WHA) AT END OF CW LINE RUNS. PROVIDE ACCESS TO ARRESTORS VIA ACCESS PANELS, ETC.
- N. PROVIDE STOP VALVES AT EVERY FIXTURE ON BOTH HOT AND COLD WATER SUPPLY LINES. VALVES, ESCUTCHEONS, FITTINGS, ETC. MUST BE CHROMIUM PLATED. WHERE EXPOSED IN FINISHED AREAS, CHROME PLATED PIPE IS TO BE USED.
- O. PROVIDE CLEANOUTS IN ALL SANITARY, STORM DRAINAGE & OVERFLOW LINES, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 50 FEET, AT EACH CHANGE IN DIRECTION OF 45 DEGREES AND GREATER, AND ON ALL VERTICAL RISERS AT A HEIGHT OF 30" ABOVE FINISHED FLOOR AT THE BASE OF EACH STACK.
- P. ALL EXPOSED OR ACCESSIBLE P-TRAPS MUST BE PROVIDED WITH BOTTOM CLEANOUT PLUGS.
- Q. MAINTAIN A MINIMUM OF 15'-0" BETWEEN ALL KNOWN FRESH AIR INTAKES AND PLUMBING VENTS FLUES, ETC. OFFSET PLUMBING VENTS BELOW ROOF AS REQUIRED TO MAINTAIN MINIMUM CLEARANCES. COORDINATE WITH ALL OTHER CONTRACTORS ON SITE.
- R. ALL SANITARY SEWER LINES 3" DIA AND LESS ARE TO BE RUN AT 1/4"/FT. MINIMUM. ALL OTHERS SLOPE AT 1/8"/FT MINIMUM. UNLESS OTHERWISE INDICATED.
- S. ALL HORIZONTAL STORM DRAIN (SD) LINES INSIDE BUILDINGS ARE TO SLOPE AT 1/8"/FT UNLESS OTHERWISE INDICATED. EXTERIOR BELOW GRADE STORM DRAINS ARE TO SLOPE AT 1/4"/FT UNLESS OTHERWISE INDICATED.
- T. INSULATE ALL WATER LINES ABOVE FLOOR. INSULATE ALL HORIZONTAL STORM LINES (INCLUDING OVERFLOW LINES) ABOVE FLOOR. INSULATE ALL WATER LINES CARRYING HVAC CONDENSATE OR DRAINS FROM ICE MACHINES AND OTHER "REFRIGERATION EQUIPMENT".
- U. PROVIDE 8 INCH WATER COLUMN MINIMUM GAS SYSTEM TO ALL GAS FIRED EQUIPMENT, UNLESS HIGHER PRESSURE IS REQUIRED BY EQUIPMENT (VERIFY WITH MANUFACTURER). MINIMUM REQUIREMENTS TO COMPLY WITH A.G.A. STANDARDS, HOWEVER, UNDER NO CIRCUMSTANCES ARE GAS LINES TO BE RUN INSIDE THE BUILDING WHICH CONTAIN GAS PRESSURES OF 5 PSI OR ABOVE.
- V. PROVIDE SHUT-OFF COCK, 6 INCH DIRT LEG, AND UNION IN GAS LINE AT ALL CONNECTIONS TO GAS BURNING EQUIPMENT, INCLUDING ROOF TOP EQUIPMENT, IF APPLICABLE. UNIONS MUST BE DIELECTRIC TYPE IF EQUIPMENT CONNECTION AND GAS PIPE ARE OF DIFFERENT METALS.
- W. PROVIDE ANODES ON GAS PIPING AS REQUIRED BY LOCAL UTILITY. PROVIDE ALL EQUIPMENT AT GAS METER AS REQUIRED BY LOCAL UTILITY.

PLUMBING FIXTURE ROUGH-IN SCHEDULE / SPECIFICATIONS									
DESIGNATION	DESCRIPTION	SAN.	VENT	C.W.	H.W.	MOUNTING	REFERENCE PRODUCT	COMMENTS	
L-1	LAVATORY	2"	1-1/2"	1/2"	1/2"	COUNTER	BRYANT K-2599-1 OVAL DROP IN SINK, W/ CHROME P-TRAP, AND MCGUIRE 2165 SUPPLIES. KOHLER HINT K-97060-4 FAUCET WITH VIBRANT BRUSH NICKEL FINISH AND VANDAL RESISTANT AERATOR.	MOUNT IN ARCHITECTURAL COUNTERTOP.	
L-2	ADA LAVATORY	2"	1-1/2"	1/2"	1/2"	COUNTER	BRYANT K-2599-1 OVAL DROP IN SINK, W/ CHROME P-TRAP, AND MCGUIRE 2165 SUPPLIES. KOHLER HINT K-97060-4 FAUCET WITH VIBRANT BRUSH NICKEL FINISH AND VANDAL RESISTANT AERATOR.	SHIELD DRAIN AND SUPPLY PIPING WITH TRUBRO LAV. GUARD OR EQUAL IN EXPOSED LOCATIONS. MOUNT TO ADA REQUIREMENTS IN ARCHITECTURAL COUNTERTOP.	
L-3	ADA LAVATORY	2"	1-1/2"	1/2"	1/2"	WALL	AMERICAN STANDARD 0355.012 "LUCERNE", WALL MOUNT, WHITE VITREOUS CHINA, W/ CHROME WHEELCHAIR P-TRAP, GRID DRAIN, MCGUIRE 2165 SUPPLIES. DELTA 501-LF-WF LEAD FREE COMPLIANT SINGLE LEVER CHROME PLATED CAST BRASS FAUCET WITH COPPER CONNECTORS AND VANDAL RESISTANT AERATOR.	MIN. RIM HEIGHT 15" AFF. BEMIS 2155SSCT WHITE ELONGATED ANTI-MICROBIAL SEAT, WITH SELF-SUSTAINING CHECK HINGE, SS POSTS AND PINTLES, AND STA-TITE COMMERCIAL FASTENING SYSTEM.	
WC-1	WATER CLOSET	4"	2"	1/2"	---	FLOOR	AMERICAN STANDARD 2234.001 "MADERA", ELONGATED BOWL, FLOOR MOUNT, WHITE VITREOUS CHINA, SIPHON JET, TOP SPUD, BOLT CAPS. SLOAN ROYAL FLUSH VALVE, 1.6 GPF MAX.	MIN. RIM HEIGHT 15" AFF. BEMIS 2155SSCT WHITE ELONGATED ANTI-MICROBIAL SEAT, WITH SELF-SUSTAINING CHECK HINGE, SS POSTS AND PINTLES, AND STA-TITE COMMERCIAL FASTENING SYSTEM.	
WC-2	ADA WATER CLOSET	4"	2"	1/2"	---	FLOOR	AMERICAN STANDARD 3043.001 "MADERA", ELONGATED BOWL, FLOOR MOUNT, WHITE VITREOUS CHINA, SIPHON JET, TOP SPUD, BOLT CAPS. SLOAN ROYAL FLUSH VALVE, 1.6 GPF MAX.	MOUNT TO ADA REQUIREMENTS, MIN. RIM HEIGHT 17" AFF. BEMIS 2155SSCT WHITE ELONGATED ANTI-MICROBIAL SEAT, WITH SELF-SUSTAINING CHECK HINGE, SS POSTS AND PINTLES, AND STA-TITE COMMERCIAL FASTENING SYSTEM.	
SH-1	SHOWER	2"	2"	3/4"	3/4"	FLOOR	FIAT MONTEREY 4836-MFTR SHOWER PAN WITH CONTRACTOR BUILT WALLS (48" x 36"), POLISHED CHROME SELF-CAULKING GRID DRAIN.	DELTA PRESSURE BALANCE SHOWER VALVE AND TRIM T13H122. BOLT-THRU CURTAIN ROD W/ VINYL ANTI-MICROBIAL WHITE SHOWER CURTAIN AND ALL TRIM TO BE SPECIFIED BY ARCHITECT.	
SH-2	ADA SHOWER	2"	2"	3/4"	3/4"	FLOOR	FIAT HUNTINGTON ADAWN-6036 ADA SHOWER PAN WITH CONTRACTOR BUILT WALLS (65.23" x 38.38") W/ GRAB BARS, FOLD DOWN SEAT. POLISHED CHROME SELF-CAULKING GRID DRAIN.	DELTA ADA SHOWER VALVE AND TRIM T13H152-05. HAND SHOWER WITH HOSE, 36" SS BAR WITH ADA SLIDE, PRESSURE BALANCED. BOLT-THRU CURTAIN ROD W/ VINYL ANTI-MICROBIAL WHITE SHOWER CURTAIN AND ALL TRIM TO BE SPECIFIED BY ARCHITECT.	
SS-1	JANITOR'S SINK	3"	2"	3/4"	3/4"	WALL	ELKAY ESS-2319 SERVICE SINK, 14 GA. 304 STAINLESS STEEL, WALL MOUNT, WITH FULL BACKSPASH, ROLLED EDGES, AND SATIN FINISH. CHICAGO FAUCETS 445-PVBOP WALL MOUNTED 3 3/8" BODY, ADJUSTABLE ARMS 3" - 8 3/8" HOT AND COLD WATER SINK FAUCET, CHROME PLATED SOLID BRASS CONSTRUCTION. RIGID SPOUT AND MALE HOSE THREAD, PAL HOOK, AND WALL BRACE. LEVER HANDLES, REBUILDABLE COMPRESSION CARTRIDGE. OFFSET SUPPLY ARM WITH INTEGRAL CHECK AND SHUT-OFF STOP WITH NPT FEMALE THREAD INLET. SPILL RESISTANT PRESSURE VACUUM BREAKER, SECONDARY CONTROL VALVE.	PROVIDE WITH WALL HANGER AND STAINLESS STEEL SUPPORT BRACKETS. PROVIDE WITH STANDARD ELKAY MODEL LK173 FLOOR-MOUNTED CAST IRON P-TRAP WITH FRONT CLEANOUT PLUG.	
S-1	DOUBLE COMPARTMENT SINK	2"	2"	1/2"	1/2"	COUNTER	ELKAY LR-3321, 13-1/2"x16"x8"D BOWLS, 18 GA. STAINLESS STEEL, CENTER OUTLETS, W/ CHROME P-TRAPS, MCGUIRE 2165 SUPPLIES. DELTA MODEL 100LF-HDF SINGLE LEVER FAUCET W/ 8" SWING SPOUT.	MOUNT IN ARCHITECTURAL COUNTERTOP. PROVIDE WITH REMOVABLE STRAINER BASKETS.	
WH-1, WH-2	GAS FIRED WATER HEATERS	---	---	1-1/2"	1-1/2"	FLOOR	A.O. SMITH CYCLONE LV MODEL BTHL-500A, 220 GALLON, 500 MBH INPUT, POWERED DIRECT VENTING, POWERED ANODE, HELICAL HEAT EXCHANGER COIL, DEDICATED INTELLIGENT CONTROL SYSTEM WITH LCD DISPLAY AND BUILT-IN DIAGNOSTICS, HANDHOLE CLEANOUT, 619 GPH RECOVERY AT 90°F RISE.	PROVIDE MANUFACTURER'S INTAKE AND COMBUSTION AIR VENT. PIPING CONCENTRIC VENT KIT. VENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. ROUTE FULL SIZE T&P DISCHARGE TO FLOOR DRAIN. ROUTE CONDENSATE DRAIN TO FLOOR DRAIN SEPARATELY FROM T&P. PROVIDE CATCH PAN AND ROUTE DRAIN FULL SIZE (3/4" MINIMUM) TO FLOOR DRAIN. PROVIDE WEISS HWS42 THERMOMETER (30-240 °F RANGE) WITH BRASS THERMOMETER WELL.	
HWCP-1	HOT WATER CIRCULATOR PUMP	---	---	---	1"	SUSPENDED	TACO MODEL 0011-SF4 CIRCULATING PUMP, 120V, 1/8 HP, 1" FLANGED CONNECTIONS. 7 GPM AT 15 FEET HEAD.	INSTALL VERTICALLY IN PIPING RISER. PROVIDE ISOLATION VALVES, PLUG SET, TIMER, AND AQUASTAT PACKAGE.	
MV-1	MIXING VALVE	---	---	2"	2"	SUSPENDED	LEONARD MODEL TM-2020B-LF-DT LEAD FREE THERMOSTATIC WATER MIXING VALVE (2" INLETS, 2" OUTLET), 55 GPM FLOW AT 10 PSI PRESSURE DROP, SOLID BI-METAL THERMOSTAT, COLOR-CODED DIALS, LOCKING TEMPERATURE REGULATOR HANDLES, ADJUSTABLE LIMIT STOPS, INTEGRAL HOT AND COLD SUPPLY CHECKSTOPS, OUTLET BALL VALVE SHUTOFFS, COLOR-CODED DIAL THERMOMETER, INLET PIPING MANIFOLD, ROUGH BRONZE FINISH, ASSE 1017 LISTED.	FACTORY PRE-ASSEMBLED AND TESTED. SET TO 120°F DISCHARGE.	
RPZ-1	REDUCED PRESSURE BACKFLOW PREVENTER	---	---	3"	---	WALL	WATTS MODEL LF009 LEAD FREE REDUCED PRESSURE BACKFLOW PREVENTERS 3" SIZE. PROVIDE INLET STRAINERS, ISOLATION BALL VALVES, AND 4 TEST PORTS.	MOUNT IN DOMESTIC WATER SERVICE LINE, LOWER RPZ MINIMUM 18" AFF. ROUTE FULL SIZE DISCHARGES THRU AIR GAP FITTING TO JAN. SINK OR DRAIN PROVIDED.	
FD-1	FLOOR DRAIN	2"	2"	---	---	FLOOR	PROSET MODEL T25630-F-P FLOOR DRAIN, 2" OUTLET, 5" DIAMETER NICKEL BRONZE TOP, WITH INTEGRAL TRAP GUARD, AND ADJ. COLLAR.	PROVIDE WITH DEEP SEAL TRAP AND TRAP GUARD.	
FD-2	FLOOR DRAIN	3"	2"	---	---	FLOOR	PROSET MODEL T35630-F-P FLOOR DRAIN, 3" OUTLET, 5" DIAMETER NICKEL BRONZE TOP, WITH INTEGRAL TRAP GUARD, AND ADJ. COLLAR.	PROVIDE WITH DEEP SEAL TRAP AND TRAP GUARD.	
HD-1	HUB DRAIN	2"	2"	---	---	FLOOR	WATTS MODEL FD-100-DD, 2" FLOOR DRAIN WITH HUB FUNNEL. EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE CAST IRON HUB FUNNEL, AND NO HUB (STANDARD) OUTLET.	PROVIDE WITH DEEP SEAL TRAP AND INSTALL TRAP GUARD BY PROSET.	
EW-1	ELECTRIC WATER COOLER WITH BOTTLE FILLER	1-1/2"	1-1/2"	1/2"	---	WALL	ELKAY MODEL LZSBWMP WALL MOUNT, BARRIER FREE COOLER WITH BOTTLE FILLING STATION. 8 GPH OF 50°F WATER. FRONT AND SIDE EASY TOUCH CONTROLS, SS BASIN / SHROUDS, EASY-FLEX BUBBLER, 120V / 3.7A.	MOUNT WITH BUBBLER OUTLET AT 32" AFF. MOUNT TO ADA REQUIREMENTS. PROVIDE WALL CARRIER AND 5 YEAR WARRANTY ON COMPRESSOR.	
WB-1	WASHER BOX	2"	2"	3/4"	3/4"	WALL / RECESSED	GUY GRAY MODEL FB-200, 10"x9"x3.5" BOX. PROVIDE WITH TWO 1/2" HOSE BIBBS, 2" TRAP, AND DRAIN WITH EXTENDED TAILPIECE.	CONTRACTOR TO MAKE ALL CONNECTIONS. APPLIANCE BY OTHERS.	
IB-1	ICEMAKER BOX	---	---	1/2"	---	WALL / RECESSED	GUY GRAY MODEL #BIM875, 10"x8"x3.5" BOX. PROVIDE WITH 1/2" F.I.P. INLET AND 1/4" O.D. COMPRESSION OUTLET ANGLE VALVE.	CONTRACTOR TO MAKE ALL CONNECTIONS. APPLIANCE BY OTHERS.	
LI-1	LINT INTERCEPTOR	4"	---	---	---	BELOW GRADE	WADE 5600, FABRICATED STEEL LINT INTERCEPTOR WITH GASKETED COVER, STAINLESS STEEL PRIMARY FIXED FILTER, STAINLESS STEEL SECONDARY REMOVABLE FILTER, THREADED INLET/OUTLET & EPOXY COATING.	CONSTRUCTION SHALL BE HEAVY DUTY TRAFFIC GRADE. INSTALL WITH HATCH AT GRADE LEVEL	



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								APP'D
								BY
								Date
								Revision/Issue
								No.

REPAIR (SUS) ARMEN
DORMITORY BLDG 854

PLUMBING
SCHEDULES

DESIGNED BY HS, BD	PLUMBING GC
REVIEWED BY HS	REVISIONS NKAK 21-1034
DESIGNED BY GC	SHEET
DATE 29 FEB. 2024	P5.01
SCALE AS NOTED	73 of 100