

PLUMBING SYMBOLS LEGEND

ANNOTATION

	KEYNOTE TAG
	EQUIPMENT/FIXTURE DESIGNATION
	CONNECTION POINT OF NEW WORK TO EXISTING
	EXTENTS OF DEMO (DIRECTIONAL)
	DETAIL/SECTION REFERENCE
	INDICATES DETAIL NUMBER
	INDICATES SHEET NUMBER
	SECTION CUT DESIGNATION

PIPE FITTINGS

	UNION
	FLANGE CONNECTION
	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	CAP

PLUMBING FIXTURES

	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT (ECO)
	FLOOR SINK (FS), SIZE & TYPE
	FLOOR DRAIN (FD), SIZE & TYPE
	ROOF DRAIN (RD), SIZE & TYPE
	HOSE BIBB (HB)
	NON-FREEZE WALL HYDRANT (WH)
	CLEANOUT (CO)
	WALL CLEANOUT (WCO)
	DOWNSPOUT NOZZLE (DSN)

PIPING

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRC.
	140° DOMESTIC HOT WATER
	160° DOMESTIC HOT WATER
	TRAP PRIMER LINE
	SANITARY WASTE
	GREASE WASTE
	GREASE VENT
	STORM DRAIN PRIMARY
	STORM DRAIN OVERFLOW
	CONDENSATE DRAIN
	AUXILIARY CONDENSATE DRAIN
	SUMP OR SEWAGE PUMP DISCHARGE
	LOW PRESSURE NATURAL GAS
	MEDIUM PRESSURE NATURAL GAS
	SANITARY VENT
	DIRECTION OF FLOW
	EXISTING PIPING TO BE REMOVED
	EXISTING PIPING TO REMAIN
	COMPRESSED AIR

METERS AND EQUIPMENT

	WATER METER
	GAS METER
	RECIRCULATION PUMP

VALVES AND ASSEMBLIES

	TWO-WAY CONTROL VALVE
	SHUTOFF VALVE
	CHECK VALVE
	BALANCING VALVE WITH PRESSURE PORTS
	STRAINER
	STRAINER WITH BLOWOFF
	RELIEF/SAFETY VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	GAS PRESSURE REGULATOR
	THERMOSTATIC MIXING VALVE
	PIPE ANCHOR / SUPPORT
	EXPANSION JOINT
	BACKFLOW PREVENTER
	PRESSURE GAUGE
	THERMOMETER
	VACUUM RELIEF VALVE
	AUTOMATIC AIR VENT
	WATER HAMMER ARRESTER (WHA) WITH PDI SIZES, (A, B, C, D, & E)
	P-TRAP
	GAS COCK
	TRAP PRIMER
	TRAP PRIMER WITH DISTRIBUTION UNIT

STANDARD MOUNTING HEIGHTS

(AFF, AFG, UNLESS NOTED OTHERWISE)

INSTALL PLUMBING FIXTURES WITH THE MOUNTING HEIGHTS GIVEN BELOW UNLESS NOTED OTHERWISE (UNO) ON THE ARCHITECTURAL DRAWINGS. FINAL APPROVAL OF MOUNTING HEIGHTS SHALL BE BY THE ARCHITECT.

LAVATORY OR SINK		
STANDARD HEIGHT	31" FLOOR TO RIM	
ADA ACCESSIBLE	34" FLOOR TO RIM	
CHILD HEIGHT	24" FLOOR TO RIM	
URINAL		
STANDARD HEIGHT	24" FLOOR TO RIM	
ADA ACCESSIBLE	17" FLOOR TO RIM	
CHILD HEIGHT	14" FLOOR TO RIM	
WATER CLOSET		
STANDARD HEIGHT	15" FLOOR TO RIM	
ADA ACCESSIBLE	17" TO 19" FLOOR TO TOP OF SEAT	
CHILD HEIGHT	11" TO 17" FLOOR TO RIM	
WATER COOLER OR DRINKING FOUNTAIN		
STANDARD HEIGHT	41" FLOOR TO SPOUT	
ADA ACCESSIBLE	36" FLOOR TO SPOUT	
CHILD HEIGHT	30" FLOOR TO SPOUT	
SHOWER VALVES		
STANDARD HEIGHT	48" MEN & 42" WOMEN	
	FLOOR TO CENTERLINE	
ADA ACCESSIBLE	38" MINIMUM TO 48" MAXIMUM FLOOR TO CENTERLINE	
SHOWER HEADS		
	78" MEN & 72" WOMEN	
	FLOOR TO CENTERLINE	
TUB VALVES		
STANDARD HEIGHT	32" FLOOR TO CENTERLINE	
ADA ACCESSIBLE	CENTER BETWEEN GRAB BAR AND TUB RIM	
CLINIC SERVICE SINKS		
JEWELERS SINK	30" FLOOR TO RIM	
FAUCET FITTINGS	35" FLOOR TO FRONT RIM	
HOSE BIBBS	24" FLOOR TO CENTER OF BOX	
NON-FREEZE HYDRANT	42" FLOOR TO RIM	
	JEWELERS SINK FAUCET FITTINGS	
	36" AFF TO CENTERLINE	
	18" AFG TO CENTERLINE	

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL VISIT AND EXAMINE THE JOB SITE SO AS TO ASCERTAIN, PRIOR TO BIDDING, THE EXISTING CONDITIONS. NO CLAIM FOR COSTS WILL BE ALLOWED FOR LACK OF KNOWLEDGE OF THESE CONDITIONS.
- PLANS ARE DIAGRAMMATIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF ALL MATERIALS, PIPE, EQUIPMENT, FIXTURES, VALVES, TRAPS, AND ASSOCIATED ACCESSORIES. PLANS ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, VALVE, OR COMPONENT. DO NOT SCALE THE PLANS.
- REVIEW ALL GENERAL NOTES, KEYNOTES, SPECIFICATIONS, PLANS AND DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND INFORMATION THAT MAN NOT BE INDICATED ON PLANS.
- THE INTENTION OF SPECIFICATIONS AND PLANS IS TO CALL FOR FINISHED WORK. WHEREVER THE WORD "PROVIDE" IS NOTED, IT SHALL MEAN TO "FURNISH AND INSTALLED COMPLETE AND READY FOR USE".
- PLANS AND SPECIFICATIONS SHALL GOVERN WHEN EXCEEDING CODE REQUIREMENTS.
- WORK SHALL BE INSPECTED. CONTRACTOR SHALL PAY ANY FEES REQUIRED BY ANY AUTHORITIES HAVING JURISDICTION.
- WORK SHALL COMPLY WITH THE REQUIREMENTS OF ANY AUTHORITIES HAVING JURISDICTION, BUILDING DEPARTMENTS, APPLICABLE TO THE LATEST EDITION OF THE APPLICABLE BUILDING CODE, PROVINCIAL FIRE CODE, APPLICABLE OSHA AND NFPA STANDARD, COUNTY AND CITY BUILDING REGULATIONS AND CODES.
- NOTIFY THE ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- SUBMIT TO THE ARCHITECT A CONSTRUCTION RECORD SET OF AS BUILT PLANS. INDICATE ALL INSTALLED PIPE AND EQUIPMENT LOCATIONS THAT DIFFER FROM THE ORIGINAL CONSTRUCTION DOCUMENTS. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
- SUBMIT TO THE ARCHITECT A COPY OF ALL INSPECTION REPORTS AND APPROVAL CERTIFICATES ISSUED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND/OR STATE INSPECTIONS. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
- SUBMIT TO THE ARCHITECT IN ELECTRONIC FORMAT, ALL SHOP PLANS AND DESCRIPTIVE EQUIPMENT DATA/SUBMITTALS REQUIRED FOR THE PROJECT. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- COORDINATE PIPE INSTALLATION WITH STRUCTURAL CONCRETE GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. PIPE PASSING THROUGH STRUCTURAL CONCRETE GRADE BEAMS OR FOOTINGS SHALL BE SLEEVED WITH A STEEL PIPE OF ONE PIPE SIZE LARGER. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE INSTALLATION. AVOID INTERRUPTING REBAR WHEN ROUTING THRU FOOTINGS.
- COORDINATE, VERIFY, AND CAREFULLY EXAMINE ALL ARCHITECTURAL, STRUCTURAL, PLUMBING, HVAC, FIRE PROTECTION, AND ELECTRICAL PLANS PERTAINING TO CONSTRUCTION. COORDINATE IN FULL COOPERATION WITH OTHER TRADE CONTRACTORS IN LOCATING DUCTWORK, PIPE, EQUIPMENT, STRUCTURAL MEMBERS, ETC., IN ORDER TO AVOID CONFLICT WITH OTHER TRADE WORK. NO CLAIM FOR COSTS WILL BE ALLOWED FOR THE RELOCATING EQUIPMENT, PIPE, DUCTWORK, ETC. ANY CONFLICTS SHALL BE RESOLVED AT NO EXPENSE TO THE OWNER.
- REFER TO THE ARCHITECTURAL PLANS FOR AESTHETIC FINISHES OF ALL PLUMBING FIXTURES.
- VERIFY ALL INVERT ELEVATIONS BEFORE SANITARY WASTE, SANITARY GREASE, AND STORM PIPE IS INSTALLED. ALL UTILITY CONNECTIONS SHOWN ON PLANS ARE TO BE CONNECTED AT A POINT OF 5'-0" EXTERIOR TO THE BUILDING WITH AN EXTERIOR CLEANOUT AS INDICATED ON PLANS.
- VERIFY ALL ROUGH IN LOCATIONS. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
- AFTER INSTALLATION IS COMPLETE, CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING THE BUILDING OVER THE OWNER. REFER TO THE SPECIFICATION FOR MORE INFORMATION.
- ALL ROOF PENETRATIONS SHALL BE SEALED WATER TIGHT AND INSTALLED WITH FLASHING AND COUNTER FLASHING AS REQUIRED.
- DISCHARGE ALL WASTE AND DRAIN TERMINATIONS WITH OPEN AIR GAP AS REQUIRED PER LOCAL CODE.
- DO NOT INSTALL PIPE IN OR ACROSS MECHANICAL CHASES AND ELEVATOR SHAFTS.
- DO NOT INSTALL PIPE OVER OR UNDER ELECTRICAL PANELS OR EQUIPMENT.
- DO NOT INSTALL PLASTIC PIPE IN RETURN AIR PLENUMS.
- FIRESTOP ANY PENETRATIONS THROUGH RATED WALLS, FLOORS, AND PARTITIONS. PROVIDE FIRESTOP DEVICE OR SYSTEM THAT COMPLIES WITH ASTM E814 AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE DEVICE OR SYSTEM WITH AND "F" RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL RATED AND NON-RATED WALL, FLOOR AND PARTITION LOCATIONS. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- FLOW CONTROL VALVES SHALL BE 1/2" AND SET AT 0.50 GPM UNLESS OTHERWISE NOTED ON PLANS.
- INSTALL CLEANOUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS AND CLEARANCE OF NOT LESS THAN 18 INCHES FROM, AND PERPENDICULAR TO, THE FACE OF THE OPENING TO ANY OBSTRUCTION.
- INSTALL DRAIN PIPE 3" AND SMALLER WITH MINIMUM 1/4" PER FOOT (2%) DOWNWARD SLOPE IN DIRECTION OF FLOW, UNLESS OTHERWISE NOTED ON PLANS.
- INSTALL DRAIN PIPE 4" AND LARGER WITH MINIMUM 1/8" PER FOOT (1%) DOWNWARD SLOPE IN DIRECTION FLOW, UNLESS OTHERWISE NOTED ON PLANS.
- INSTALL PIPE CONCEALED TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE.
- INSTALL PIPE EXPOSED PIPE TIGHT TO THE STRUCTURE, WALL, OR CEILING AND AS HIGH AS POSSIBLE.
- INSTALL VALVES IN A LOCATION THAT PERMITS ACCESS FOR SERVICE AND OPERATION WITHOUT DAMAGE TO THE BUILDING FOR FINISHED MATERIALS. PROVIDE ACCESS DOORS AND PANELS IF REQUIRED. VERIFY ALL FINAL EXACT LOCATIONS OF ACCESS DOORS AND PANELS WITH ARCHITECT PRIOR TO CONSTRUCTION.
- INSULATE DOMESTIC WATER PIPE ABOVE GRADE WITH 1" ENGINEERED POLYMER FOAM INSULATION, OR MINERAL FIBER PREFORMED INSULATION WITH FACTORY APPLIED ALL SERVICE JACKET. DO NOT INSULATE EXPOSED CONNECTIONS TO PLUMBING FIXTURES, EXCEPT WHERE REQUIRED FOR ADA COMPLIANCE OR OTHERWISE NOTED ON PLANS. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- INSULATE PIPE CONTINUOUSLY THROUGH WALLS, FLOORS AND PARTITIONS.
- INSULATE PIPE ROUTED IN BUILDING EXTERIOR WALLS WITH 2" MINIMUM BATT INSULATION.
- LABEL ALL PIPE WITH ADHESIVE PIPE LABELS INDICATING SYSTEM AND DIRECTION OF FLOW. PIPE LABELS SHALL BE LOCATED NEAR ALL BRANCH CONNECTIONS, ALL FLOOR, WALL PENETRATIONS, AND AT MAXIMUM INTERVALS OF 10 FEET ALONG EACH PIPE. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- MATERIAL AND EQUIPMENT SHALL BE NEW AND INSTALLED AS INDICATED ON THE PLANS AND SPECIFICATIONS. MATERIALS SHALL BE INSTALLED PLUMB, LEVEL, AND TRUE TO LINE WITH ADJACENT WORK. WHERE INSTALLATION METHODS ARE NOT SPECIFIED ON THE PLANS, FIRST CLASS TRADE PRACTICES AND MANUFACTURER'S RECOMMENDATIONS SHALL GOVERN.
- NEATLY AND CONTINUOUSLY SEAL AROUND ALL LAVATORIES, URINALS, AND WATER CLOSETS ADJACENT TO WALLS OR FLOORS WITH USDA APPROVED, SANITARY TYPE, ONE PART, MILDEW RESISTANT SILICONE SEALANT. COORDINATE SEALANT COLOR WITH THE ARCHITECT. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- NEATLY AND CONTINUOUSLY SEAL UNDER RIM OF ANY NEW STAINLESS STEEL SINK INSERTS WITH USDA APPROVED, SANITARY TYPE, ONE PART, MILDEW RESISTANT SILICONE SEALANT. COORDINATE SEALANT COLOR WITH THE ARCHITECT. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- PAINT ALL EXPOSED GAS AND WATER PIPE WITH RUST INHIBITOR PAINT. COORDINATE ALL PAINT COLORS WITH THE ARCHITECT. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- PIPE AND EQUIPMENT INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES, SHALL NOT EXCEED A FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOP RATING OF 50 IN ACCORDANCE WITH ASTM E 84. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- PROVIDE ALL ITEMS INDICATED ON PLANS UNLESS OTHERWISE NOTED.
- PROVIDE ALL REQUIRED MATERIALS, PIPE, EQUIPMENT, FIXTURES, VALVES, TRAPS, AND ASSOCIATED ACCESSORIES, ITEMS AND DEVICES, AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEMS, INCLUDING ALL POINTS AUXILIARY TO THE SYSTEM OR SYSTEMS WHETHER OR NOT SPECIFICALLY SET FORTH HEREIN AND/OR SHOWN ON THE PLANS.
- PROVIDE SHUT OFF VALVES, AND UNIONS OR FLANGES TO ISOLATE ALL EQUIPMENT AND/OR FIXTURES AS INDICATED ON PLANS AND/OR DETAILS.
- PROVIDE THERMOSTATIC MIXING VALVES AT HAND WASHING LOCATIONS TO TEMPER WATER TO 110°F AT LAVATORIES AND 120°F AT SINKS. SEE PLUMBING FIXTURE SCHEDULE FOR MORE INFORMATION.
- PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL CODE.
- PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN DOMESTIC COLD WATER AND DOMESTIC HOT WATER SUPPLIES FOR JANITOR SINKS, MOP SINK, SERVICE SINKS, MIXING HOSE BIBBS, MIXING WALL HYDRANTS DOWNSTREAM OF SHUTOFF VALVES.
- ROOF PENETRATIONS SHALL MAINTAIN 10'-0" MINIMUM CLEARANCE FROM ALL AIR INTAKES AND MAINTAIN 2'-0" CLEARANCE FROM ALL EQUIPMENT. COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL EQUIPMENT. VERIFY ALL FINAL EXACT LOCATIONS OF ROOF PENETRATIONS WITH THE ARCHITECT.
- SANITARY PIPE BELOW GRADE SHALL MINIMUM 3" UNLESS OTHERWISE NOTED ON PLANS.
- SEAL ANY NEW EXTERIOR WALL PENETRATIONS WATER-TIGHT.
- SOME PLUMBING FIXTURE CONNECTION SIZES NOT SHOWN ON PLANS FOR CLARITY. REFER TO PLUMBING FIXTURE FOR CONNECTION SIZES.
- VALVES SHALL BE INCOMING PIPE SIZE UNLESS OTHERWISE NOTED.
- VENT PIPING ABOVE GRADE SHALL BE 3" UNLESS OTHERWISE NOTED ON PLANS OR RISERS.
- VENT TO ROOF LOCATIONS AND PENETRATIONS SHALL BE 3" UNLESS OTHERWISE NOTED ON PLANS.
- WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS OTHERWISE NOTED ON PLANS.
- WATER PIPE SIZES ARE BASED ON A MINIMUM WORKING PRESSURE OF 49 PSI AT A FLOW RATE OF 950 GPM AT THE LOCATION WHERE THE MAIN SERVICE ENTERS THE BUILDING.

PLUMBING DEMOLITION NOTES

- AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
- CONTACT UTILITY LOCATING SERVICE TO LOCATE EXACT LOCATION OF UTILITIES BELOW GRADE. CONTRACT PRIVATE LOCATING COMPANY WHERE UTILITIES ARE NOTE COVER BY "DIG SAFE" PROGRAM. X RAY EXISTING ELEVATED SLAB PRIOR TO CUTTING.
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. EXISTING CONDITIONS DOCUMENTED FROM ORIGINAL PLANS AND SITE VISITS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- FIELD VERIFY THAT ALL EXISTING PLUMBING FIXTURES, EQUIPMENT, AND ASSOCIATED ACCESSORIES DAMAGE ARE IN WORKING ORDER. REPORT ALL DAMAGE AND DEFICIENCIES TO THE ARCHITECT, ENGINEER, AND OWNER.
- HAZARDOUS MATERIALS IDENTIFIED OR BELIEVED TO EXIST AS A RESULT OF CONSTRUCTION ACTIVITIES. IMMEDIATELY NOTIFY THE OWNER. OWNER WILL ABATE ALL HAZARDOUS MATERIALS REQUIRED TO BE REMOVED TO FACILITATE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL SURVEY AREA OF WORK AT PROJECT COMMENCEMENT AND NOTIFY OWNER ARCHITECT OF AREA WHICH MAY REQUIRE ABATEMENT.
- INSTALL PERMANENT CAPS WHERE PIPE IS REMOVED AND THE EXISTING TAPS ARE NOT USED FOR THE NEW INSTALLATION. INSTALL TEMPORARY CAPS WHERE PIPE IS REMOVED AND THE EXISTING TAPS WILL BE USED FOR THE NEW INSTALLATION TO PROTECT THE INTERIOR SURFACES UNTIL NEW PIPE IS INSTALLED.
- LOCATE, IDENTIFY, AND PROTECT EXISTING PLUMBING SYSTEMS PASSING THROUGH SCOPE OF WORK SERVING AREAS OUTSIDE SCOPE OF WORK. WHEN PLUMBING SYSTEM OUTSIDE SCOPE OF WORK MUST BE INTERRUPTED, MAINTAIN PLUMBING SYSTEM SERVICES AND MINIMIZE DOWNTIME TO AREAS OUTSIDE SCOPE OF WORK. INSTALL TEMPORARY PLUMBING SYSTEMS SERVICE FOR AFFECTED AREAS OUTSIDE SCOPE OF WORK AND NOTIFY THE ARCHITECT AND CONSTRUCTION MANAGER 48 HOURS IN ADVANCE PRIOR TO INTERRUPTING SERVICES AREAS OUTSIDE SCOPE OF WORK.
- OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDINATE WITH THE OWNER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO EQUIPMENT, FIXTURES AND DEVICES DURING DEMOLITION OF WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER PLANS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- PROTECT PLUMBING FIXTURES, EQUIPMENT, AND ASSOCIATED ACCESSORIES THAT ARE EXISTING TO REMAIN FROM DAMAGE DURING DEMOLITION PHASES.
- REMOVE ITEMS INDICATED WITH HEAVY DASHED LINES, AND/OR CROSSHATCH, AND/OR NOTED TO BE REMOVED.
- SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE PLUMBING COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR SURFACES TO MATCH ADJACENT AREAS.

ABBREVIATIONS

A	AMERICANS WITH DISABILITIES ACT	M	MAXIMUM
AFF	ABOVE FINISH FLOOR	MBH	1000 BTU PER HOUR
AFG	ABOVE FINISH GRADE	MH	MANHOLE
AHU	AIR HANDLING UNIT	MIN	MINIMUM
B	BATHTUB	N	NORMALLY CLOSED
BFF	BELOW FINISHED FLOOR	NO	NORMALLY OPEN
BFG	BELOW FINISHED GRADE	O	OVERFLOW ROOF DRAIN
BOP	BOTTOM OF PIPE	ORD	OVERFLOW ROOF DRAIN
BOS	BOTTOM OF STRUCTURE	O	OVERFLOW ROOF DRAIN
BP	BOOSTER PUMP	ORD	OVERFLOW ROOF DRAIN
BTU	BRITISH THERMAL UNIT	P	PLUMBING DRAINAGE INSTITUTE
C	CUBIC FEET PER HOUR	PDI	POLYVINYL CHLORIDE
CFH	CUBIC FEET PER HOUR	PVC	POLYVINYL CHLORIDE
CFM	CUBIC FEET PER MINUTE	Q	QUANTITY
CO	CLEANOUT	R	ROOF HYDRANT
CP	CONDENSATE PUMP	RH	RECIRCULATION PUMP
CPVC	CHLORINATED POLYVINYL CHLORIDE	RP	REVOLUTIONS PER MINUTE
CTL	COUNTERTOP LAVATORY	RPM	REDUCED PRESSURE ZONE
D	DOUBLE CHECK VALVES	RPZ	BACKFLOW PREVENTER
DCV	DRINKING FOUNTAIN	RT	REMOTE TOTALIZER
DF	DRAINAGE FIXTURE UNITS	S	SQUARE FEET
DFU	DIAMETER	SF	SHOWER
DIA	DOWN	SH	SINK
DN	DOWNSPOUT	SK	SUMP PUMP
DS		SP	STAINLESS STEEL, SANITARY SEWER,
E	EMERGENCY EYEWASH AND SHOWER	SS	SOIL STACK, SHOWER STALL
EES	EMERGENCY EYEWASH	SV	SHOWER VALVE, SOLENOID VALVE
EEW	EMERGENCY EYEWASH	T	TRENCH DRAIN
EMV	EMERGENCY MIXING VALVE	TD	TOTAL DYNAMIC HEAD
ESH	EMERGENCY SHOWER	TDH	TO FLOOR ABOVE
ESP	ELEVATOR SUMP PUMP	TFA	TO FLOOR BELOW
ET	EXPANSION TANK	TFB	THERMOSTATIC MIXING VALVE
ETR	EXISTING TO REMAIN	TMV	TOP OF PIPE
EWC	ELECTRIC WATER COOLER	TOP	TRAP PRIMER
F	FROM FLOOR ABOVE	TS	TIME SWITCH, TRAP SEAL
FFA	FROM FLOOR BELOW	TYP	TYPICAL
FFB	FINISHED FLOOR ELEVATION	U	UNDER COUNTER LAVATORY
FFE	FINISHED FLOOR	UCL	UNDERWRITERS LABORATORY
FF	FLOW LINE	UL	UNLESS OTHERWISE NOTED
FL	FULL LOAD AMPS	UNO	UNINTERRUPTIBLE POWER SUPPLY
FLA	FLOOR	UPS	URINAL
FLR		UR	
G	GARBAGE DISPOSAL	V	VOLTAGE
GD	GREASE INTERCEPTOR	VCP	VITRIFIED CLAY PIPE
GI	GALLONS PER HOUR	VS	VENT STACK
GPH	GALLONS PER MINUTE	VTR	VENT THROUGH ROOF
GPM	GALLONS PER MINUTE	W	WITH
GT	GREASE TRAP	W/O	WITHOUT
H	HEAD, HUB DRAIN	WC	WASH COLUMN, WATER CLOSET
HD	HAIR INTERCEPTOR	WF	WASH FOUNTAIN, WATER FILTER
HI		WH	WATER HEATER
I	INVERT ELEVATION	WM	WATER METER
IE	ICE MAKER BOX	WMB	WASHING MACHINE BOX
IMB	INCHES OF WATER COLUMN	WS	WASTE STACK
IN WC		WSFU	WATER SUPPLY FIXTURE UNIT
J	JUNCTION BOX		
JB	JUNCTION BOX		
J-BOX	JUNCTION BOX		
JS	JANITOR'S SINK (MOP SINK)		
K	KILOWATT		
KW			
L	LAVATORY		
LAV			

APP'D					
DESCRIPTION					
DATE					
REV #					
APPROVED		CHIEF ENGINEER			CIVIL ENGINEER
NKAK 22-1076	B718 DORM	LITTLE ROCK AFB	DETAILS (1)		
PLUMBING NOTES, ABBREVIATIONS AND LEGEND					
AIR MOBILITY COMMAND					
19TH CIVIL ENGINEER SQUADRON LITTLE ROCK, ARKANSAS					
DATE:	JULY 2026				
DESIGNED BY:	SAH				
DRAWN BY:	GAM				
BUILDING NO.:					
PROJECT NO.:					
SHEET REF.:					
P-001					
SHEET NO.:	1	OF	XX		