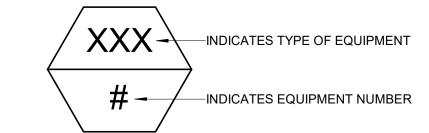
PLUMBING LEGEND

		(NOT ALL SYMBOLS LIS	IED BELOW AR	E BEING C	ISED IN THIS SET OF PLO	JIVIBING DRAWII	NGS)	
SYMBOL MEDICAL	ABBR	DESCRIPTION	SYMBOL FITTINGS:	ABBR	DESCRIPTION	SYMBOL SYMBOLS:	ABBR	DESCRIPTION
MA	MA	MEDICAL AIR	0—		ELBOW UP	1- P1		-SECTION NO.
	0	OXYGEN	C—		ELBOW DOWN			SECTION VIEW SHEET NO.
	VAC	VACUUM	— O—		TEE UP	F		DETAIL
	NO	NITROUS OXIDE			TEE DOWN	M1		DESIGNATION
o	G	NAT. GAS OUTLET	─		PIPE CAP OR PLUG	F		
	0	OXYGEN OUTLET	─	GC	GAS COCK	F		EQUIPMENT DESIGNATION
─	V	VACUUM OUTLET	⊣ ı	СО	CLEANOUT PLUG	1		
—о	MA	MEDICAL AIR OUTLET	<u>-</u> #	HB WH	HOSE BIBB WALL HYDRANT	1		SHEET KEY NOTES
—	MA	MED AIR OUTLET		VB	VACUUM BREAKER		POC	POINT OF CONN. (CONN. NEW TO EXISTING)
SPRINKLER HEADS			0	RD	ROOF DRAIN		POD	POINT OF DISCONNECTION
		EXISTING SPRINKLER HEAD TO REMAIN	0	OD	OVERFLOW ROOF DRAIN			ARROW INDICATES DIRECTION OF FLOV
		EXISTING SPRINKLER HEAD TO RELOCATED		DSN	DOWNSPOUT NOZZLE	UP		RISE IN DIRECTION OF FLOW
		EXISTING SPRINKLER HEAD TO NEW LOCATION	[] Å	SA	SHOCK ARRESTOR W/BALL VALVE	DN		DROP IN DIRECTION OF FLOW
O _A		NEW SPRINKLER HEAD TO MATCH EXISTING		FD	FLOOR DRAIN	•	ТВ	THRUST BLOCK
PIPING:	(E)			AD	AREA DRAIN		DN AFF	DOWN ABOVE FIN. FLOOR
(E)	(E)	EXISTING PIPING EXISTING PIPING TO BE REMOVED		FCO GCO	FLOOR CLEANOUT GRADE CLEANOUT		AFG TOP	ABOVE FIN. GRADE
	CW	DOMESTIC COLD WATER	⊣ ı	WCO CO	WALL CLEANOUT CLEANOUT PLUG		ВОР	BOT. OF PIPE (AFF)
<u> </u>	HW	DOMESTIC HOT WATER	J L	VTR	VENT THRU ROOF		I.E. VBF	VENT BELOW FLOO
<u></u>	Т	TEMPERED WATER	VALVES:	0)/	CATE VALVE	(E)	NTS	NOT TO SCALE EXISTING
HWC	HWC	DOMESTIC HOT WATER CIRCULATING	<u> </u>	GV	OUTSIDE STEM AND	(E) (N)	(E) (N)	NEW
SAN	SAN	SANITARY WASTE ABOVE FLOOR		OS&Y DV	YOKE DRAIN VALVE W/	(R)	(R)	REMOVE OR RELOCATE
SAN	SAN	SANITARY WASTE BELOW FLOOR GREASE WASTE	-\range -		HOSE END CONN. BALL VALVE W/			
- GW	GW	BELOW FLOOR	—O-r		HOSE CONNECTION			
	V ST	SANITARY VENT STORM PIPING	N	CV	CHECK VALVE WITH FLOW DIRECTION			
ST ST	ST	ABOVE FLOOR STORM PIPING	\bowtie	PRV	PRESSURE REDUCING VALVE			
——————————————————————————————————————	OD	BELOW FLOOR STORM OVERFLOW ABOVE FLOOR	<u>s</u>	SV	SOLENOID VALVE			
	OD	STORM OVERFLOW BELOW FLOOR	FC —	FCV	AUTO FLOW CONTROL VALVE W/ TEST PORT	-		
	G F	NATURAL GAS FIRE	-6-	cs	CIRCUIT SETTER			
DR A	DR A	EQUIP. DRAIN COMPRESSED AIR	>>	GLV	GLOBE VALVE (STRAIGHT PATTERN)			
	A	PIPE SIZE/ PIPE TYPE	→ \[\]	GLV	GLOBE VALVE (ANGLE PATTERN)			
			T]⊢	BFV	BUTTERFLY VALVE			
FITTINGS			<u>-</u> D-	BV	BALL VALVE			
FITTINGS:	EJ	EXPANSION JOINT	- 	TCV	AUTO TEMP CONTROL VALVE, 2-WAY	-		
<u> </u>	U	UNION	- X	TCV	AUTO TEMP CONTROL VALVE, 3-WAY	-		
				PV	PLUG VALVE			
Ш		THERMOMETER W/THERMOWELL	≱ ⊢	TPR	TEMP/PRESSURE RELIEF VALVE			
<u> </u>	AV	AIR VENT			VALVE IN RISER			
	FC	FLEXIBLE PIPE CONNECTOR			STRAINER W/			
, , , , , , , , , , , , , , , , , , ,	FS	FLOW SWITCH		STR	BLOW-OFF & CAPPED HOSE- END CONNECTION			
	PS	PRESSURE	-&-		STEAM TRAP			
	. .	SWITCH						
Ø	PG	PRESSURE GAUGE W/GAUGE						

EQUIPMENT DESIGNATIONS

COCK



GENERAL DRAWING NOTES

WHERE DIFFERENCES APPEAR BETWEEN PLUMBING DRAWINGS AND ARCHITECTURAL DRAWINGS IN THE QUANTITIES AND LOCATIONS OF PLUMBING FIXTURES, THE ARCHITECTURAL DRAWINGS SHALL BE USED FOR PRICING. WHERE NECESSARY, THE CONTRACTOR SHALL USE UNIT PRICING FOR WASTE AND VENT PIPING TO EACH PLUMBING FIXTURE.

GENERAL PLUMBING CONTRACT REQUIREMENTS

- 1. PREPARE SHOP DRAWINGS OF ALL NEW WORK (INCLUDING SLEEVE LOCATIONS) TO VERIFY LOCATIONS AND COORDINATION OF WORK BETWEEN TRADES PRÍOR TO INSTALLATION.
- 2. ALL DRAIN GRATES, CLEANOUT COVERS, AND OTHER FINISHED OR EXPOSED COMPONENTS SHALL BE PROTECTED FROM DAMAGE. DAMAGED COMPONENTS SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
- COORDINATE ROUTING OF ALL PLUMBING PIPING BELOW SLAB WITH STRUCTURAL GRADE BEAMS, TIE BEAMS, ETC. ALLOW FOR REROUTING OF PIPING AS REQUIRED.
- PIPING ROUTING ON DRAWINGS IS GENERALLY DIAGRAMMATIC WITH EFFORTS DURING DESIGN TO AVOID STRUCTURAL CONFLICTS. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING THROUGH BUILDING WITH STRUCTURAL CONDITIONS. CONTRACTOR COORDINATION DRAWINGS SHALL REFLECT ALL PIPE ROUTING AND PIPING THAT MAY HAVE TO BE SHIFTED OR MOVED TO AVOID CONFLICTS. SHIFTED OR MOVED PIPING SHALL REFLECT NO ADDITIONAL COST TO THE PROJECT.
- ALL REQUIRED OPENINGS IN CONCRETE BEAMS AND STRUCTURAL WALLS ARE TO BE ACCOMPLISHED USING SLEEVES PROPERLY SIZED FOR THE PIPE THEY SERVE. CORE DRILLING IN BEAMS IS NOT ALLOWED. CORE DRILLING IN PANS IS ALLOWED UPON PRIOR APPROVAL OF ARCHITECT AND STRUCTURAL
- ALL HORIZONTAL SANITARY PIPING 2-1/2" AND SMALLER WHETHER BELOW OR ABOVE GRADE SHALL SLOPE AT 1/4"/FT. ALL PIPING 3" AND LARGER SHALL SLOPE AT 1/8"/FT UNLESS OTHERWISE NOTED. ALL STORM AND OVERFLOW PIPING SHALL SLOPE AT 1/8"/FT UNLESS OTHERWISE NOTED. ALL GREASE WASTE PIPING SHALL SLOPE AT 1/4"/FT.
- 7. REFERENCE CIVIL DIVISION DRAWINGS FOR REQUIRED POINT OF CONNECTION AND INVERT REQUIREMENTS. IN GENERAL, THE POINT OF CONNECTION IS AT A POINT 5 FEET OUTSIDE OF BUILDING FOOTPRINT. CONFORM WORK TO MEET INVERT ELEVATIONS ON CIVIL PLANS.
- CAP ALL SANITARY AND STORM TEES FOR FUTURE BRANCH PIPING AND STAKE LOCATION OF PIPING FOR CONNECTION TO FUTURE BRANCH LINES.
- WHERE SHOWN, MINIMIZE THE NUMBER OF JOINTS ON ANY PRESSURIZED PIPING BELOW CONCRETE SLABS, ALL BELOW GRADE PIPING TO BE PRESSURE TESTED AND WITNESSED BY ARCHITECT PRIOR TO BACKFILLING.
- 10. ALL CLEANOUTS FOR HORIZONTAL STORM DRAINAGE SYSTEM SHALL BE PIPE SIZE OR MAXIMUM 6" FOR LARGER PIPE.
- 11. IN ADDITION TO THE CLEANOUT LOCATIONS SHOWN ON DRAWINGS, CLEANOUTS SHALL BE PROVIDED IN ACCORDANCE WITH THE LOCAL GOVERNING CODE. ADDITIONAL CLEANOUTS SHALL BE PROVIDED AS FOLLOWS:
 - EACH RUN OF PIPING WHICH IS MORE THAN 75 FEET IN LENGTH OR FRACTION THEREOF.
 - HORIZONTAL LINES 5 FEET OR MORE. HORIZONTAL LINES FOR EACH AGGREGATE CHANGE OF DIRECTION EXCEEDING 135 DEGREES.
 - AT THE BASE OF ALL SANITARY AND STORM RISERS. ALL VERTICAL CLEANOUTS SHALL BE SIZED TO ACCOMMODATE THE LARGEST PIPE ON THAT BRANCH LINE, BUT NEVER LARGER THAN 4".
 - ALL GREASE WASTE PIPING SHALL HAVE CLEANOUTS EVERY 50 FEET OR FRACTION THEREOF AND AS NOTED ABOVE. AT THE END OF FIXTURE BANKS TO INCLUDE WATER CLOSETS, URINALS AND LAVATORIES. CLEAOUT PLUG SHALL BE A MINIMUM OF 24" AFF
- 12. NO GAS LINES SHALL BE LOCATED BELOW BUILDING SLAB. ALL GAS PIPING IN AIR PLENUMS SHALL BE WELDED.
- 13. PROVIDE ISOLATION VALVES ON ALL PIPING SERVING HOSE BIBBS.
- 14. STANDARD ROOF DRAINAGE IS SIZED AT 3"/HR. OVERFLOW DRAINAGE IS ACCOMPLISHED THROUGH ARCHITECTURAL ROOF SCUPPERS. WHERE OVERFLOW DRAINS ARE USED, THEY WILL BE SIZED USING 3"/HR RATE.
- WATER HAMMER ARRESTORS (SHOCK ABSORBERS) SHALL BE INSTALLED BETWEEN THE LAST 2 FLUSH VALVE FIXTURES. WHEN THE COLD WATER HEADER IS 20 FEET OR LONGER, A SECOND ARRESTOR SHALL BE INSTALLED HALFWAY DOWN THE HEADER. THE SIZES OF THE ARRESTORS SHALL BE BASED ON PDI SIZING.
- 16. ALL FLOOR DRAINS IN BUILDING EXCEPT DRAINS IN SHOWERS AND SHOWER AREAS SHALL BE INSTALLED WITH A PROSET TRAP GUARD.
- 17. ALL DOMESTIC WATER PIPING SERVING TOILET OR RESTROOM GROUPS SHALL BE INSTALLED WITH ISOLATION VALVES IN ORDER TO ISOLATE THESE AREAS WITHOUT CLOSING DOWN ANY OTHER PORTION OF THE BUILDING WATER SUPPLY SYSTEMS. ALL ISOLATION VALVES SHALL BE ACCESSIBLE WITH ACCESS PANELS. MINIMUM ACCESS PANEL SIZE SHALL BE 12"x12". ACCESS PANELS SHALL BE OF THE SAME RATING AS THE STRUCTURAL ELEMENT IN WHICH THEY ARE INSTALLED.
- 18. ALL GAS PRESSURE REDUCING VALVES SHALL BE PROVIDED WITH VENT PIPING TO ATMOSPHERE.
- THROUGHOUT THE DRAWINGS, NUMBERS ARE SHOWN IN BRACKETS TO INDICATE QUANTITIES OF UNITS CARRIED WITHIN THE DIFFERENT PIPING SYSTEMS. THEY REPRESENT THE FOLLOWING:

CW (X)/[X] = (GPM)/[GPM]GAS(X)/[X] = (CFH)/[CFH]SAN (X)/[X] = (DFU)/[DFU]VENT(X)/[X] = (DFU)/[DFU]ST/OD(X)/[X] = (FT2)/(FT2)

- FOR CALCULATION PURPOSES OF ALL PIPE SIZES, VALUES SHOWN ARE WITHIN 10 PERCENT OF ACTUAL LOAD VALUES.
- 20. ALL EQUIPMENT AND PIPING SHALL BE BRACED FOR SEISMIC REQUIREMENTS APPLICABLE FOR SEISMIC ZONE REQUIREMENTS FOR THIS PROJECT.
- REFER TO GENERAL MECHANICAL CONTRACT REQUIREMENT NOTES ON MECHANICAL DRAWINGS FOR GENERAL PIPING HEAT TRACE INSTALLATION
- 22. PROVIDE DIELECTRIC FITTINGS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS AND AS SHOWN ON DRAWINGS.
- 23. ALL TEMPERING VALVES TO BE SET FOR 110° F WATER TEMPERATURE MAXIMUM UNLESS OTHERWISE NOTED.
- PROVIDE HEAT TRACE IN LOCATIONS SHOWN, AS REQUIRED BY SPECIFICATIONS, AND TO THE FOLLOWING SYSTEMS WHEN EXPOSED TO FREEZING CONDITIONS:

A. DOMESTIC COLD WATER B. DOMESTIC HOT WATER C. DOMESTIC HOT WATER RECIRC D. SANITARY E. STORM

- ALL HEAT TRACED PIPE SHALL BE INSULATED PER SPECIFICATIONS. COORDINATE ALL HEAT TRACING AND REQUIRED CIRCUITS WITH ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR.
- 25. PROVIDE WATER HAMMER ARRESTORS FOR ALL FIXTURES/EQUIPMENT THAT HAVE QUICK CLOSING VALVES TO INCLUDE:
 - A. WATER CLOSETS AND URINAL FLUSH VALVES B. ELECTRONIC FAUCETS C. REFRIGERATOR ICE MAKERS
 - D. DISHWASHERS E. MECHANICAL MAKE-UP
- 26. REFER TO MECHANICAL PLANS FOR ALL EQUIPMENT REQUIRING MAKE-UP WATER. PROVIDE A REDUCED PRESSURE BACKFLOW FOR EACH REQUIRED
- REFER TO LANDSCAPE PLANS FOR IRRIGATION REQUIREMENTS. WHEN AN IRRIGATION TAP IS REQUIRED OFF THE DOMESTIC WATER SERVICE, PROVIDE THE RECCOMENDED LINE SIZE WITH A REDUCED PRESSURE BACKFLOW PREVENTER.



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> **REVIEWED FOR** COMPLIANCE 09/23/2022

∠ Date Description

2 06/27/2022 BULLETIN 1

Seal / Signature



Steamboat Base Village Redevelopment

Project Number 003.7835.000

Description

PLUMBING LEGEND

1/8" = 1'-0"

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PLUMBING FIXTURE SCHEDULE - BUILDING A TENANT **GENERAL NOTES:** 1. PLUMBING DESIGN AND SIZES ARE BASED ON THE 2018 INTERNATIONAL PLUMBING CODE. 2. ALL EXPOSED PIPING SERVING PLUMBING FIXTURES THAT MAY BE USED FOR ADA PURPOSES SHALL HAVE TRAPS AND SUPPLIES INSULATED PER ADA REQUIREMENTS. 3. ALL FIXTURES ARE WHITE UNLESS OTHERWISE NOTED. 4. ALL PUBLIC ACCESS LAVATORY AND SINKS WILL HAVE AN ASSE 1070 APPROVED TEMPERING VALVE INSTALLED. MIN CW MIN HW MIN SAN MIN VENT **FIXTURE** FAUCET / FLUSH VALVE MODEL NUMBER CODE **FIXTURE** CONN CONN CONN CONN MANUFACTURER MANUFACTURER MODEL NUMBER REMARKS DESCRIPTION FLOOR DRAIN CAST IRON BODY FLOOR DRAIN WITH 5" NICKEL-BRONZE STRAINER; PROVIDE WITH JAY R. SMITH RE: PLANS JAY R. SMITH 2005Y-NB-A MODEL 2692 TRAP GUARD. SLOAN LAVATORY (ADA) WALL HUNG 23"x18" RECTANGULAR VITREOUS CHINA LAVATORY WITH 3 HOLES ON 4" CENTERS; 1/2" 1/2" 1-1/2" 1-1/2" KOHLER K-2035-4 SF-2350 FAUCET PROVIDED BY OWNER, BATTERY POWERED, SENSOR OPERATED FAUCET, 0.5 GPM. INSTALLED BY CONTRACTOR. ZURN THERMOSTATIC MIXING POINT OF USE THERMOSTATIC MIXING VALVE WITH MINIMUM 0.35 GPM FLOW RATE; ASSE 1070 1/2" ZW3870XLT 1/2" VALVE

AMERICAN STANDARD

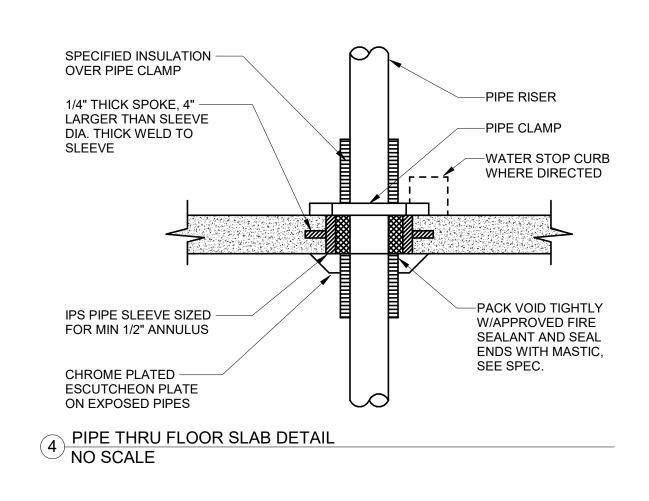
1/2"

FLOOR DRAIN. SIZE -AS NOTED ON PLANS

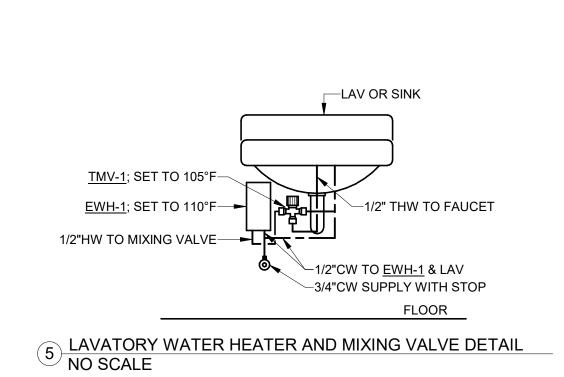
		ELEC	CTRIC WA	TER HEAT	TER SCHE	DULE .	- BUII	_DIN	IG A 1	TENANT			
ENERA	L NOTES:					REMARK	NOTES:						
. ROUTE	E ALL T&P VALVES TO	APPROVED RECEPTORS.				A. POINT (OF USE	INSTA	NTANEC	OUS TYPE WATER H	HEATER.		
				Т	EMP. RISE @					ELECTRIC	CAL		
				CAPACITY	EMP. RISE @	POWER				ELECTRIC	CAL		
CODE	MANUFACTURER	MODEL NUMBER	SERVICE				VOLT	PH	FLA	ELECTRIC FUSE	CAL DISC.	FEEDER	REMARK

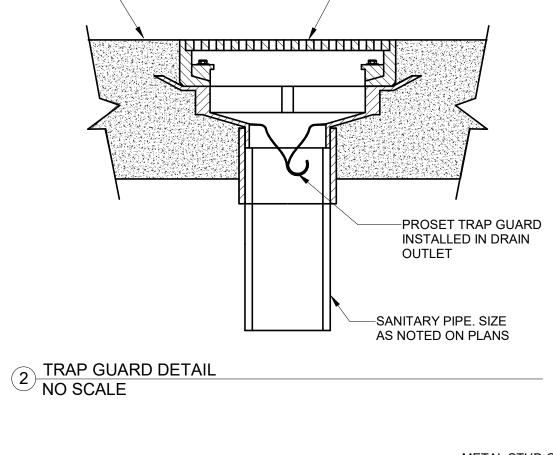
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WATER CLOSET (ADA)

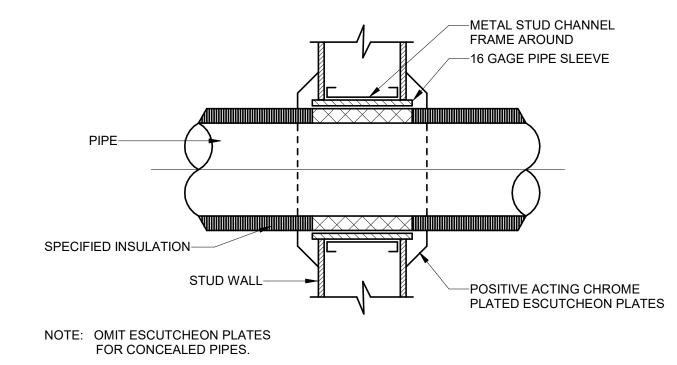




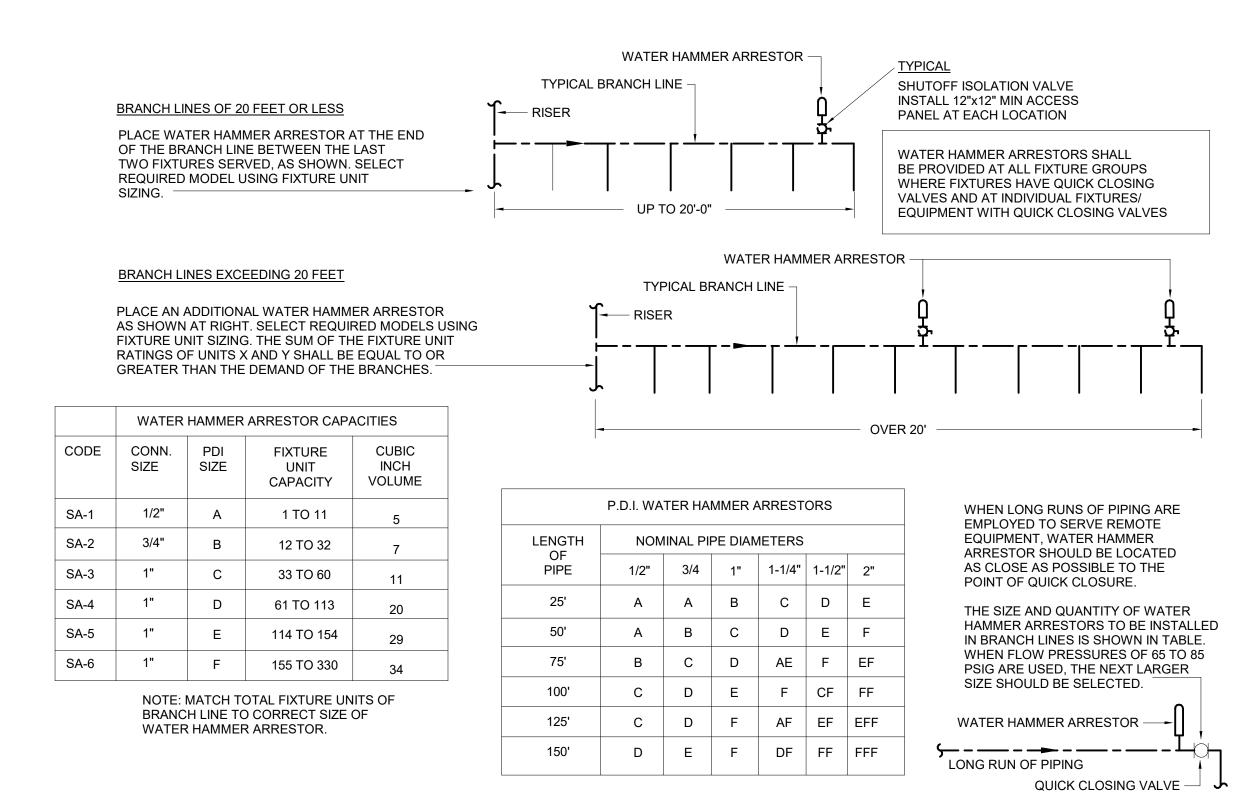
FLOOR MOUNTED, TANK TYPE, VITREOUS CHINA WATER CLOSET WITH LEFT HAND TRIP LEVER; 1.28

FLOOR-

GPF; ADA HEIGHT.



3 PIPE THRU STUD WALL DETAIL NO SCALE



WATER HAMMER ARRESTOR INSTALLATION AND SIZING DETAIL $\stackrel{\smile}{\smile}$ NO SCALE



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Suite 150

CONNECT TO EXISTING ROUGH-IN

CONNECTIONS.

Steamboat Springs, CO 80487

Project Name

Steamboat Base Village Redevelopment

Project Number

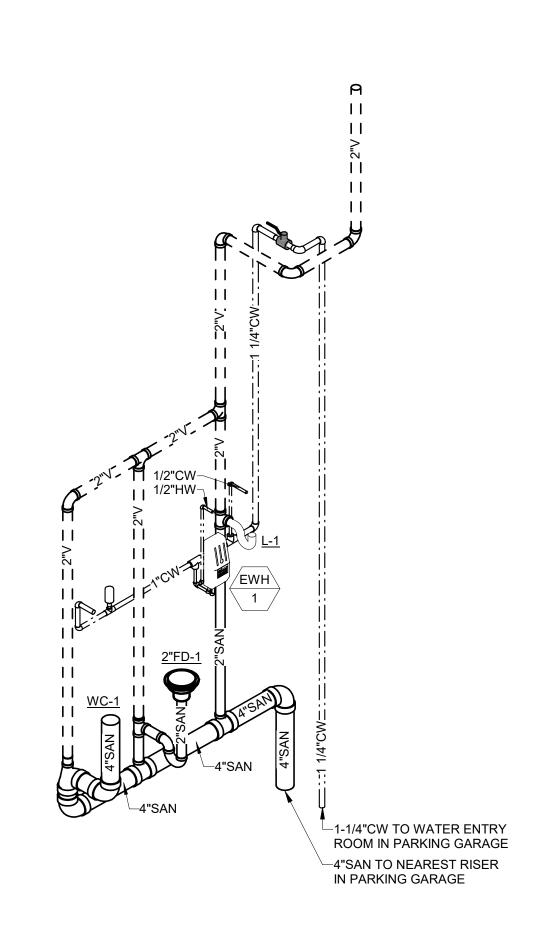
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PLUMBING SCHEDULES & DETAILS

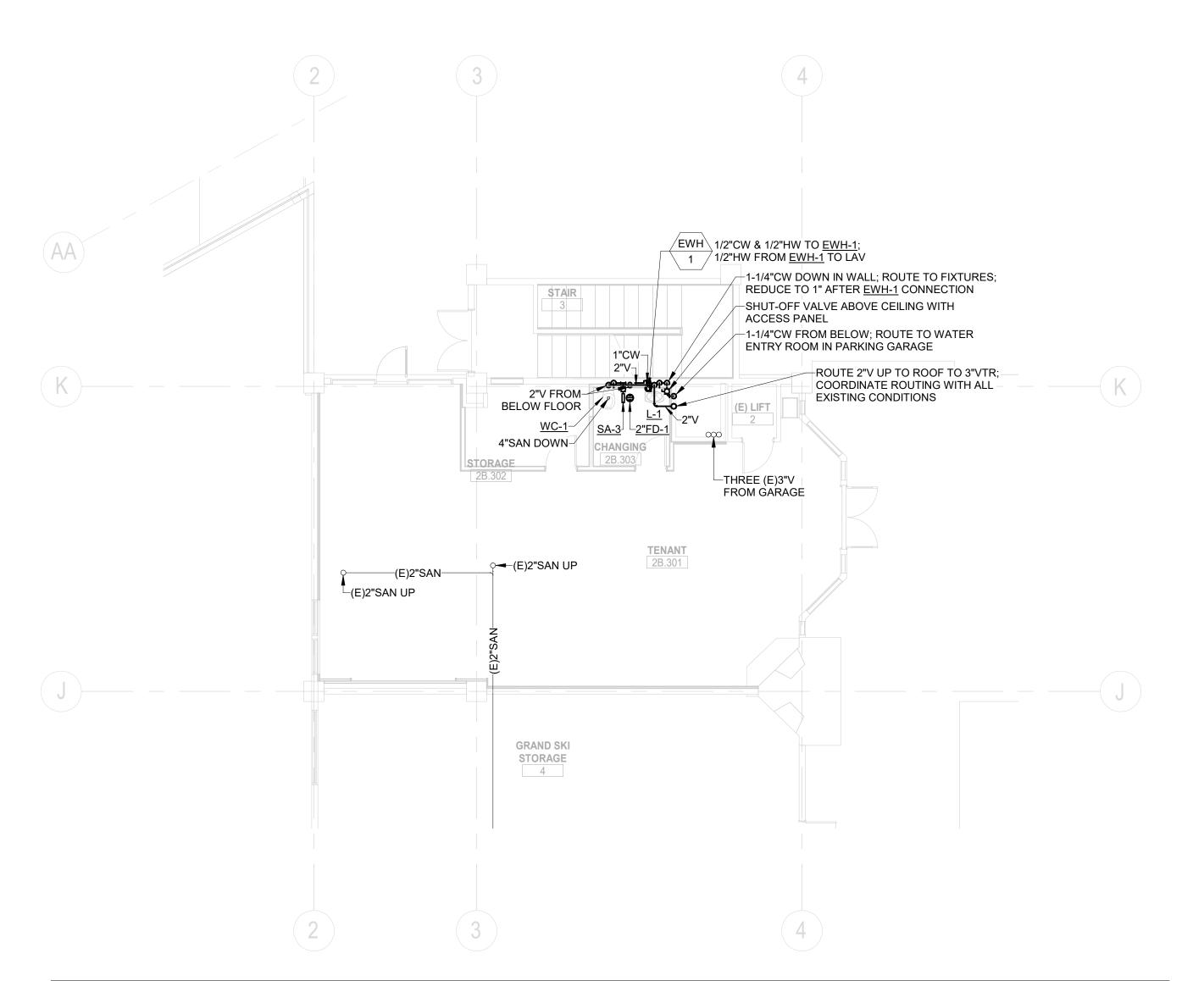
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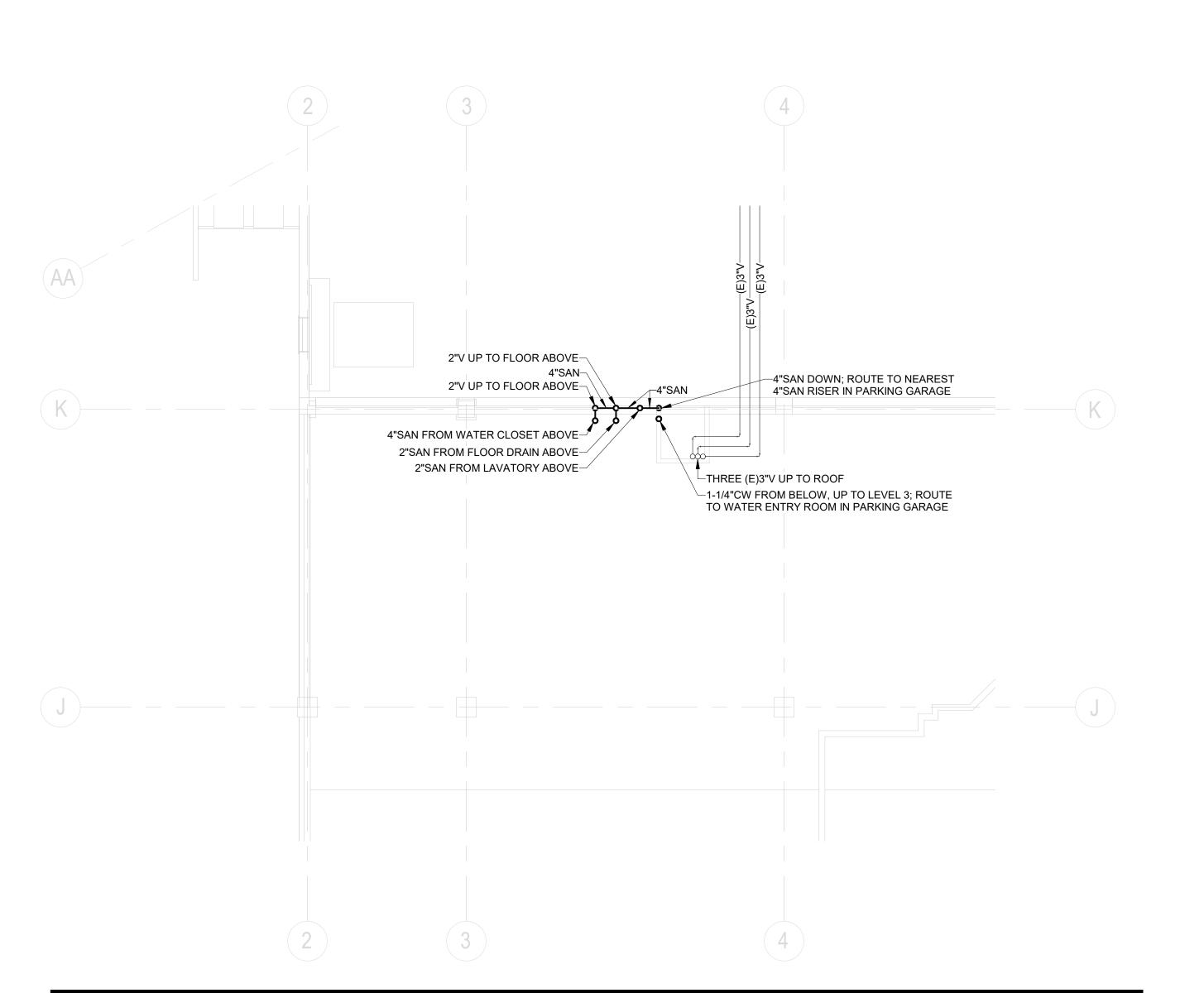
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A PLUMBING ISOMETRIC



PLUMBING PLAN - LEVEL 03
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

1. REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.

2.PROVIDE BALL VALVE SHUTOFF AND 12"X12" ACCESS PANEL AT EACH SHOCK ABSORBER (SA). PANEL LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT.

3. ALL PIPING INSTALLED FOR FUTURE CONNECTION SHALL BE STUBBED UP MINIMUM +18" FOR FUTURE EXTENSION.

4. ALL INVERT ELEVATIONS (IE) SHALL BE FIELD VERIFIED BEFORE ANY PIPING IS INSTALLED.

5. ALL CIRCUIT SETTERS SHALL BE SET AT 1.0 GPM UNLESS NOTED OTHERWISE.

KEY NOTES: (SOME KEY NOTES MAY NOT APPLY TO THIS SHEET)

- 1 SANITARY PIPING UP
- 2 SANITARY PIPING DN 3 SANITARY PIPING UP & DN
- 4 GW PIPING UP
- 5 GW PIPING DN
- 6 GW PIPING UP & DN
- 7 SANITARY VENT UP 8 SANITARY VENT DN
- 9 SANITARY VENT UP & DN
- 10 CW PIPING UP
- 11 CW PIPING DN
- 12 CW PIPING UP & DN
- 13 HW PIPING UP
- 14 HW PIPING DN 15 HW PIPING UP & DN
- 16 HWC PIPING UP 17 HWC PIPING DN
- 18 HWC PIPING UP & DN
- 19 CW & HW PIPING UP
- 20 CW & HW PIPING DN

21 CW & HW PIPING UP & DN

- 22 GAS PIPING UP
- 23 GAS PIPING DN
- 24 GAS PIPING UP & DN
- 25 STORM PIPING UP 26 STORM PIPING DN
- 27 STORM PIPING UP & DN
- 28 OVERFLOW PIPING UP
- 29 OVERFLOW PIPING DN
- 30 OVERFLOW PIPING UP &DN
- 31 OVERFLOW PIPING DOWN AND THRU WALL TO DOWNSPOUT NOZZLE +12"
- 32 SANITARY PIPING UP TO PLUMBING FIXTURES
- 33 PIPING UP TO CLEANOUT
- 34 PIPING UP TO DRAIN

KEY PLAN

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PLUMBING PLAN - LEVEL 03

1/8" = 1'-0"

2B-P1.201

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PLUMBING PLAN - LEVEL 02
SCALE: 1/8" = 1'-0"