

GENERAL DRAWING NOTES

1. 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 PRIOR 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.
3. COORDINATE ROUTING OF ALL PLUMBING PIPING BELOW SLAB WITH STRUCTURAL GRADE BEAMS, TIE BEAMS, ETC. ALLOW FOR REROUTING OF PIPING AS REQUIRED.
4. 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.
5. 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 ENGINEER.
6. 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.
8. CAP ALL SANITARY AND STORM TEES FOR FUTURE BRANCH PIPING AND STAKE LOCATION OF PIPING FOR CONNECTION TO FUTURE BRANCH LINES.
9. 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:
- A. EACH RUN OF PIPING WHICH IS MORE THAN 75 FEET IN LENGTH OR FRACTION THEREOF. HORIZONTAL LINES 5 FEET OR MORE.

B. HORIZONTAL LINES FOR EACH AGGREGATE CHANGE OF DIRECTION EXCEEDING 135 DEGREES.

C. 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".

D. ALL GREASE WASTE PIPING SHALL HAVE CLEANOUTS EVERY 50 FEET OR FRACTION THEREOF AND AS NOTED ABOVE.

E. AT THE END OF FIXTURE BANKS TO INCLUDE WATER CLOSETS, URINALS AND LAVATORIES. CLEAOUT PLUG SHALL BE A MINIMUM OF 24" AFF.

F. 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.
15. 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.
19. 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.
21. REFER TO GENERAL MECHANICAL CONTRACT REQUIREMENT NOTES ON MECHANICAL DRAWINGS FOR GENERAL PIPING HEAT TRACE INSTALLATION REQUIREMENTS.
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.
24. 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

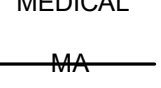
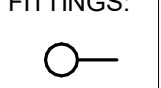
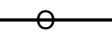
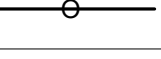
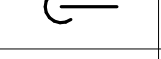
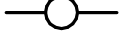
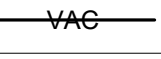
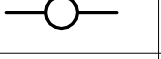
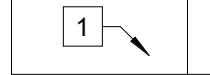
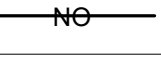
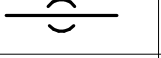
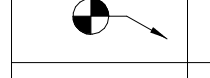
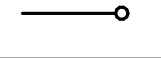
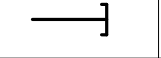

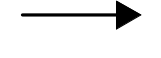

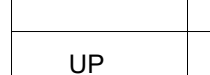
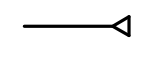
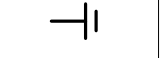

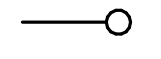
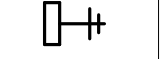

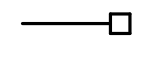




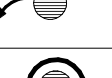



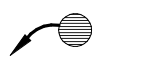

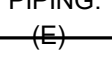


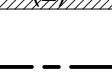


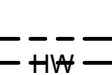


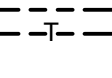


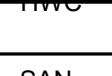
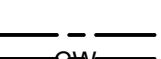
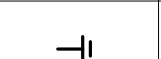
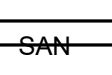
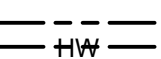

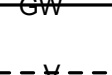
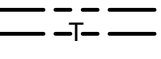

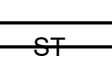
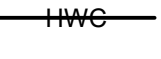
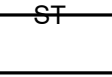


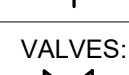
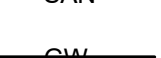

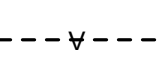

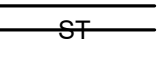

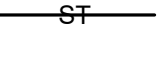
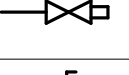
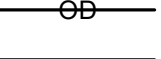
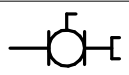
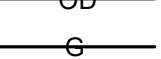
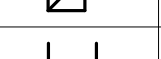
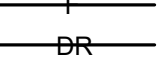
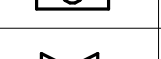
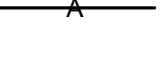
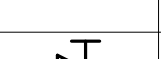
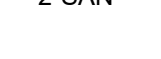
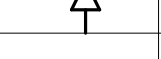

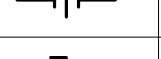




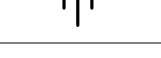
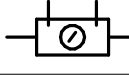
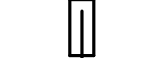
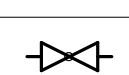
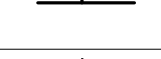



C. REFRIGERATOR ICE MAKERS

D. DISHWASHERS

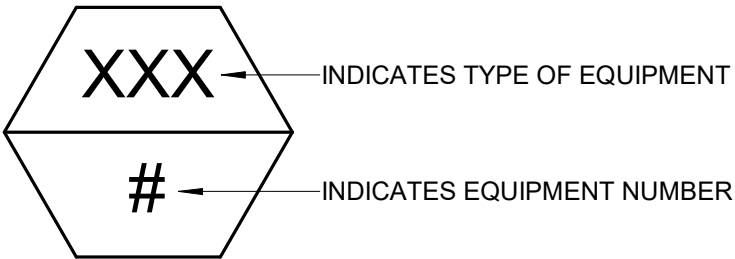
E. MECHANICAL MAKE-UP
26. REFER TO MECHANICAL PLANS FOR ALL EQUIPMENT REQUIRING MAKE-UP WATER. PROVIDE A REDUCED PRESSURE BACKFLOW FOR EACH REQUIRED LINE.
27. REFER TO LANDSCAPE PLANS FOR IRRIGATION REQUIREMENTS. WHEN AN IRRIGATION TAP IS REQUIRED OFF THE DOMESTIC WATER SERVICE, PROVIDE THE RECOMMENDED LINE SIZE WITH A REDUCED PRESSURE BACKFLOW PREVENTER.

PLUMBING LEGEND

(NOT ALL SYMBOLS LISTED BELOW ARE BEING USED IN THIS SET OF PLUMBING DRAWINGS)

SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION
MEDICAL —MA—	MA	MEDICAL AIR	FITTINGS: 		ELBOW UP	SYMBOLS: 		SECTION NO. SECTION VIEW SHEET NO.
	O	OXYGEN			ELBOW DOWN			DETAIL DESIGNATION
—VAC—	VAC	VACUUM			TEE UP			EQUIPMENT DESIGNATION
—NO—	NO	NITROUS OXIDE			TEE DOWN			SHEET KEY NOTES
	G	NAT. GAS OUTLET			PIPE CAP OR PLUG		POC	POINT OF CONN. (CONN. NEW TO EXISTING)
	O	OXYGEN OUTLET		GC	GAS COCK		POD	POINT OF DISCONNECTION
	V	VACUUM OUTLET		CO	CLEANOUT PLUG			ARROW INDICATES DIRECTION OF FLOW
	MA	MEDICAL AIR OUTLET		HB WH	HOSE BIBB WALL HYDRANT		UP	RISE IN DIRECTION OF FLOW
	MA	MED AIR OUTLET		VB	VACUUM BREAKER		DN	DROP IN DIRECTION OF FLOW
SPRINKLER HEADS				RD	ROOF DRAIN		TB DN	THRUST BLOCK DOWN
		EXISTING SPRINKLER HEAD TO REMAIN		OD	OVERFLOW ROOF DRAIN		AFF	ABOVE FIN. FLOOR
		EXISTING SPRINKLER HEAD TO RELOCATED		DSN	DOWNSPOUT NOZZLE		AFG	ABOVE FIN. GRADE
	A	EXISTING SPRINKLER HEAD TO NEW LOCATION NEW SPRINKLER HEAD TO MATCH EXISTING		SA	SHOCK ARRESTOR W/BALL VALVE		TOP	TOP OF PIPE (AFF)
PIPING: 	(E)	EXISTING PIPING		FD	FLOOR DRAIN		BOP	BOT. OF PIPE (AFF)
		EXISTING PIPING TO BE REMOVED		AD	AREA DRAIN		I.E.	INVERT ELEVATION
	CW	DOMESTIC COLD WATER		FCO GCO	FLOOR CLEANOUT GRADE CLEANOUT		VBF	VENT BELOW FLOOR
	HW	DOMESTIC HOT WATER		WCO CO	WALL CLEANOUT CLEANOUT PLUG		NTS	NOT TO SCALE
	T	TEMPERED WATER		VTR	VENT THRU ROOF		(E)	EXISTING
	HWC	DOMESTIC HOT WATER CIRCULATING	VALVES: 	GV	GATE VALVE		(N)	NEW
	SAN	SANITARY WASTE ABOVE FLOOR		OS&Y	OUTSIDE STEM AND YOK		(R)	REMOVE OR RELOCATE
	SAN	SANITARY WASTE BELOW FLOOR		DV	DRAIN VALVE W/ HOSE END CONN.			
	GW	GREASE WASTE BELOW FLOOR			BALL VALVE W/ HOSE CONNECTION			
	V	SANITARY VENT		CV	CHECK VALVE WITH FLOW DIRECTION			
	ST	STORM PIPING ABOVE FLOOR		PRV	PRESSURE REDUCING VALVE			
	ST	STORM PIPING BELOW FLOOR		SV	SOLENOID VALVE			
	OD	STORM OVERFLOW ABOVE FLOOR		FCV	AUTO FLOW CONTROL VALVE W/ TEST PORT			
	OD	STORM OVERFLOW BELOW FLOOR		CS	CIRCUIT SETTER			
	G	NATURAL GAS		GLV	GLOBE VALVE (STRAIGHT PATTERN)			
	F	FIRE		GLV	GLOBE VALVE (ANGLE PATTERN)			
	DR	EQUIP. DRAIN		BFV	BUTTERFLY VALVE			
	A	COMPRESSED AIR		BV	BALL VALVE			
		PIPE SIZE/ PIPE TYPE		TCV	AUTO TEMP CONTROL VALVE, 2-WAY			
FITTINGS: 	EJ	EXPANSION JOINT		TCV	AUTO TEMP CONTROL VALVE, 3-WAY			
	U	UNION		PV	PLUG VALVE			
		THERMOMETER W/THERMOWELL		TPR	TEMP/PRESSURE RELIEF VALVE			
	AV	AIR VENT			VALVE IN RISER			
	FC	FLEXIBLE PIPE CONNECTOR		STR	STRAINER W/ BLOW-OFF & CAPPED HOSE- END CONNECTION			
	FS	FLOW SWITCH			STEAM TRAP			
	PS	PRESSURE SWITCH						
	PG	PRESSURE GAUGE W/GAUGE COCK						

EQUIPMENT DESIGNATIONS



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12499 West Cofax Ave.
Lakewood, CO 80215
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Tel 303.431.6100

△	Date	Description
-	2021.05.21	BP4D - GONDOLA SQUARE INTERIORS BLDG. A, C AND F - ISSUE FOR PERMIT AND CONSTRUCTION

Seal / Signature



05/20/2021

Project Name

Steamboat Base Village
Redevelopment

Project Number

003.7835.000

Description

PLUMBING LEGEND

Scale

1/8" = 1'-0"

P0.000

PLUMBING FIXTURE SCHEDULE - BUILDING A											
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.											
CODE	FIXTURE	DESCRIPTION	MIN CW CONN	MIN HW CONN	MIN SAN CONN	MIN VENT CONN	MANUFACTURER	FIXTURE MODEL NUMBER	MANUFACTURER	FAUCET / FLUSH VALVE MODEL NUMBER	REMARKS
FD-1	FLOOR DRAIN	CAST IRON BODY FLOOR DRAIN WITH 5" NICKEL-BRONZE STRAINER; PROVIDE WITH JAY R. SMITH MODEL 2692 TRAP GUARD.	-	-	RE: PLANS	2"	JAY R. SMITH	2005Y-NB-A	-	-	-
EWC-1	ELECTRIC WATER COOLER	TWO LEVEL, STAINLESS STEEL, WALL HUNG ELECTRIC WATER COOLER WITH BOTTLE FILLER.	1/2"	-	2"	2"	ELKAY	EZSTL8WSLC	-	-	-
MSB-1	MOP SERVICE BASIN	FLOOR MOUNTED, 24"x24" MOLDED STONE MOP SERVICE BASIN WITH STAINLESS STEEL WALL GUARDS; WALL MOUNTED FAUCET WITH PAIL HOOK, AND VACUUM BREAKER.	3/4"	3/4"	3"	2"	FIAT	MSB2424	FIAT	830AA	-
SH-1	SHOWER	ONE PIECE SHOWER PAN, FLOOR DRAIN, TILED WALLS, WALL MOUNTED SHOWER WITH PRESSURE BALANCING VALVE, SLIDE BAR AND HAND SHOWER; 1.5 GPM.	1/2"	1/2'	2"	2"	AQUABATH	CP6036TD	AMERICAN STANDARD	TU662.213	-
L-1	LAVATORY (ADA)	23"x18" RECTANGULAR DROP-IN VITREOUS CHINA LAVATORY WITH 3 HOLES ON 4" CENTERS; BATTERY POWERED, SENSOR OPERATED FAUCET, 0.5 GPM.	1/2"	1/2"	2"	2"	KOHLER	K-2337-4	SLOAN	SF-2350	FAUCET PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
L-2	LAVATORY (ADA)	21" x 20-1/4" WALL HUNG VITREOUS CHINA LAVATORY WITH 3 HOLES ON 4" CENTERS; BATTERY POWERED, SENSOR OPERATED FAUCET, 0.5 GPM.	1/2"	1/2"	2"	2"	AMERICAN STANDARD	9134004EC	SLOAN	SF-2350	FAUCET PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
S-1	SINK	25" x 18-1/2" x 5-1/2" MOLDED QUARTS ACRYLIC, UNDERMOUNT, ADA SINK WITH BLACK FINISH; DECK MOUNTED SINGLE HANDLE FAUCET WITH GOOSENECK SPOUT AND PULL OUT SPRAYER, MATTE BLACK FINISH, 1.5 GPM.	1/2"	1/2"	2'	2"	ELKAY	ELGUA2519PD-BK	KOHLER	K-22974BL	-
S-2	SINK	14" x 18-1/2" x 5-1/2" STAINLESS STEEL, UNDERMOUNT, ADA SINK; DECK MOUNTED SINGLE HANDLE FAUCET WITH GOOSENECK SPOUT AND PULL OUT SPRAYER, MATTE BLACK FINISH, 1.5 GPM.	1/2"	1/2"	2'	2"	ELKAY	ELUHAD111655	KOHLER	K-22974BL	-
TMV-1	THERMOSTATIC MIXING VALVE	POINT OF USE THERMOSTATIC MIXING VALVE WITH MINIMUM 0.35 GPM FLOW RATE; ASSE 1070	1/2"	1/2"	-	-	ZURN	ZW3870XLT	-	-	-
UR-1	URINAL	WALL HUNG, VITREOUS CHINA URINAL WITH 3/4" TOP SPUD; BATTERY POWERED, SENSOR OPERATED FLUSH VALVE; 0.125 GPF.	3/4"	-	2"	2"	AMERICAN STANDARD	6590.525	AMERICAN STANDARD	6590.525	PROVIDE WITH IN-WALL CARRIER.
WC-1	WATER CLOSET	WALL HUNG, VITREOUS CHINA WATER CLOSET WITH BATTERY POWERED, SENSOR OPERATED FLUSH VALVE; 1.28 GPF; STANDARD HEIGHT.	1"	-	4"	2"	AMERICAN STANDARD	3351.528	AMERICAN STANDARD	3351.528	PROVIDE WITH IN-WALL, FLOOR MOUNTED CARRIER.
WC-2	WATER CLOSET (ADA)	WALL HUNG, VITREOUS CHINA WATER CLOSET WITH BATTERY POWERED, SENSOR OPERATED FLUSH VALVE; 1.28 GPF; ADA HEIGHT.	1"	-	4"	2"	AMERICAN STANDARD	3351.528	AMERICAN STANDARD	3351.528	PROVIDE WITH IN-WALL, FLOOR MOUNTED CARRIER.

PLUMBING FIXTURE SCHEDULE - BUILDINGS C & F											
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.											
CODE	FIXTURE	DESCRIPTION	MIN CW CONN	MIN HW CONN	MIN SAN CONN	MIN VENT CONN	MANUFACTURER	FIXTURE MODEL NUMBER	MANUFACTURER	FAUCET / FLUSH VALVE MODEL NUMBER	REMARKS
TD-1	TROUGH DRAIN	ABOVE FLOOR MOUNTED, 5'-6" LONG x 18" WIDE POLYPROPYLENE BODY DRAIN TROUGH WITH POLYPROPYLENE LID, INTEGRAL LINT FILTER, AND 4" BOTTOM OUTLET.	-	-	4"	2"	H-M COMPANY	CUSTOM	-	-	-
FD-1	FLOOR DRAIN	CAST IRON BODY FLOOR DRAIN WITH 5" NICKEL-BRONZE STRAINER; PROVIDE WITH JAY R. SMITH MODEL 2692 TRAP GUARD.	-	-	RE: PLANS	2"	JAY R. SMITH	2005Y-NB-A	-	-	-
DF-1	DRINKING FOUNTAIN	TWO LEVEL, STAINLESS STEEL, WALL HUNG DRINKING FOUNTAIN.	1/2"	-	2"	2"	ELKAY	EDFP217FC	-	-	-
MSB-1	MOP SERVICE BASIN	FLOOR MOUNTED, 24"x24" MOLDED STONE MOP SERVICE BASIN WITH STAINLESS STEEL WALL GUARDS; WALL MOUNTED FAUCET WITH PAIL HOOK, AND VACUUM BREAKER.	3/4"	3/4"	3"	2"	FIAT	MSB2424	FIAT	830AA	-
SH-1	SHOWER	ONE PIECE SHOWER PAN, FLOOR DRAIN, TILED WALLS, WALL MOUNTED SHOWER WITH PRESSURE BALANCING VALVE, SLIDE BAR AND HAND SHOWER; 1.5 GPM.	1/2"	1/2'	2"	2"	AQUABATH	CP6036TD	AMERICAN STANDARD	TU662.213	-
L-1	LAVATORY (ADA)	23"x18" RECTANGULAR DROP-IN VITREOUS CHINA LAVATORY WITH 3 HOLES ON 4" CENTERS; BATTERY POWERED, SENSOR OPERATED FAUCET, 0.5 GPM.	1/2"	1/2"	2"	2"	KOHLER	K-2337-4	SLOAN	SF-2350	FAUCET PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
L-2	LAVATORY (ADA)	21" x 20-1/4" WALL HUNG VITREOUS CHINA LAVATORY WITH 3 HOLES ON 4" CENTERS; BATTERY POWERED, SENSOR OPERATED FAUCET, 0.5 GPM.	1/2"	1/2"	2"	2"	AMERICAN STANDARD	9134004EC	SLOAN	SF-2350	FAUCET PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
LS-1	SINK	FLOOR MOUNTED LAUNDRY TUB SINK; 20-1/4" X 17-1/4" X 13" MOLDED STONE BASIN WITH WHITE BAKED ENAMEL ANGLE LEGS; CHROME PLATED, DECK MOUNTED FAUCET WITH WRISTBLADE HANDLES AND SWING SPOUT.	1/2"	1/2"	2"	2"	FIAT	FL-1	FIAT	A1	-
S-1	SINK	14" x 18-1/2" x 5-1/2" STAINLESS STEEL, UNDERMOUNT, ADA SINK; DECK MOUNTED SINGLE HANDLE FAUCET WITH GOOSENECK SPOUT AND PULL OUT SPRAYER, CHROME FINISH, 1.5 GPM.	1/2"	1/2"	2'	2"	ELKAY	ELUHAD111655	KOHLER	K-22974	-
TMV-1	THERMOSTATIC MIXING VALVE	POINT OF USE THERMOSTATIC MIXING VALVE WITH MINIMUM 0.35 GPM FLOW RATE; ASSE 1070	1/2"	1/2"	-	-	ZURN	ZW3870XLT	-	-	-
UR-1	URINAL	WALL HUNG, VITREOUS CHINA URINAL WITH 3/4" TOP SPUD; BATTERY POWERED, SENSOR OPERATED FLUSH VALVE; 0.125 GPF.	3/4"	-	2"	2"	AMERICAN STANDARD	6590.525	AMERICAN STANDARD	6590.525	PROVIDE WITH IN-WALL CARRIER.
WC-1	WATER CLOSET	WALL HUNG, VITREOUS CHINA WATER CLOSET WITH BATTERY POWERED, SENSOR OPERATED FLUSH VALVE; 1.28 GPF; STANDARD HEIGHT.	1"	-	4"	2"	AMERICAN STANDARD	3351.528	AMERICAN STANDARD	3351.528	PROVIDE WITH IN-WALL, FLOOR MOUNTED CARRIER.
WC-2	WATER CLOSET (ADA)	WALL HUNG, VITREOUS CHINA WATER CLOSET WITH BATTERY POWERED, SENSOR OPERATED FLUSH VALVE; 1.28 GPF; ADA HEIGHT.	1"	-	4"	2"	AMERICAN STANDARD	3351.528	AMERICAN STANDARD	3351.528	PROVIDE WITH IN-WALL, FLOOR MOUNTED CARRIER.

CIRCULATION PUMP SCHEDULE - BUILDING A															
REMARK NOTES: A. PUMP SHALL BE ALL BRONZE CONSTRUCTION. B. PROVIDE WITH AQUASTAT SET TO ENERGIZE PUMP @ 10°F BELOW WATER HEATER SET POINT. C. PROVIDE WITH OWNER ADJUSTABLE TIMER.															
CODE	MANUFACTURER	MODEL NUMBER	SERVICE	LOCATION	TYPE	FLOW (GPM)	RPM	PRESSURE (FT)	ELECTRICAL					REMARKS	
									VOLT	PH	FLA	FUSE	DISC.		FEEDER
CP-1	GRUNDFOS	ALPHA2	EWVH-1	BUILDING A	INLINE	3.00	1750	15	115	1	5.00	-	\$ T.O.	(2#12,#12G) 3/4"C	A, B, C

CIRCULATION PUMP SCHEDULE - BUILDINGS C & F															
REMARK NOTES: A. PUMP SHALL BE ALL BRONZE CONSTRUCTION. B. PROVIDE WITH AQUASTAT SET TO ENERGIZE PUMP @ 10°F BELOW WATER HEATER SET POINT. C. PROVIDE WITH OWNER ADJUSTABLE TIMER.															
CODE	MANUFACTURER	MODEL NUMBER	SERVICE	LOCATION	TYPE	FLOW (GPM)	RPM	PRESSURE (FT)	VOLT	PH	FLA	ELECTRICAL		FEEDER	REMARKS
												FUSE	DISC.		
CP-1	GRUNDFOS	ALPHA2	GWH-1	BUILDING F	INLINE	3.00	1750	15	115	1	5.00	-	\$ T.O.	(2#12,#12G) 3/4"C	A, B, C
CP-2	GRUNDFOS	ALPHA2	EWVH-1	BUILDING C	INLINE	3.00	1750	15	115	1	5.00	-	\$ T.O.	(2#12,#12G) 3/4"C	A, B, C

ELECTRIC WATER HEATER SCHEDULE - BUILDING A														
GENERAL NOTES: 1. ROUTE ALL T&P VALVES TO APPROVED RECEPTORS.														
REMARK NOTES: A. PROVIDE WITH IMMERSION THERMOSTATS WITH CONTACTORS. B. WIRE FOR SIMULTANEOUS ELEMENT OPERATION. C. PROVIDE WITH AMTROL MODEL ST-5C EXPANSION TANK (DWET-2).														
CODE	MANUFACTURER	MODEL NUMBER	SERVICE	CAPACITY (GAL)	RECOVERY (GPH@100TR)	POWER (KW)	ELECTRICAL					FEEDER	REMARKS	
EWVH-1	BRADFORD WHITE	LE240S3-3	BUILDING A	40	32	8.00	VOLT	PH	FLA	FUSE	DISC.	FEEDER	REMARKS	
							208	3	22.20	30A FRS-RK	30A/3P	(4#10,#10G) 3/4"C	A, B	

ELECTRIC WATER HEATER SCHEDULE - BUILDING C														
GENERAL NOTES: 1. ROUTE ALL T&P VALVES TO APPROVED RECEPTORS.														
REMARK NOTES: A. PROVIDE WITH IMMERSION THERMOSTATS WITH CONTACTORS. B. WIRE FOR SIMULTANEOUS ELEMENT OPERATION. C. PROVIDE WITH AMTROL MODEL ST-5C EXPANSION TANK (DWET-2).														
CODE	MANUFACTURER	MODEL NUMBER	SERVICE	CAPACITY (GAL)	RECOVERY (GPH@100TR)	POWER (KW)	VOLT	PH	FLA	FUSE	DISC.	FEEDER	REMARKS	
EWVH-1	BRADFORD WHITE	LE240S3-3	BUILDING C	40	32	8.00	480	3	9.60	15A FRS-RK	30A/3P	(4#12,#12G) 3/4"C	A, B	

GAS FIRED WATER HEATER SCHEDULE - BUILDING F														
GENERAL NOTES: 1. PROVIDE UL-508 RATED THERMAL OVERLOAD SWITCHES FOR DISCONNECTING MEANS.														
REMARK NOTES: A. PROVIDE 120V,1 PH CONTROL CIRCUIT. B. PROVIDE WITH MANUFACTURER'S CONCENTRIC VENT KIT. C. SET TO 140°F DISCHARGE TEMPERATURE. D. PROVIDE WITH MANUFACTURER'S CONDENSATE NEUTRALIZATION KIT. E. PROVIDE WITH AMTROL MODEL ST-12C EXPANSION TANK (DWET-1).														
CODE	MANUFACTURER	MODEL NUMBER	SERVICE	CAPACITY (GAL)	RECOVERY (GPH@100TR)	INPUT (MBH)	FLUE (IN)	VOLT	PH	FLA	FUSE	DISC.	FEEDER	REMARKS
GWH-1	BRADFORD WHITE	EF-100T-300E-3N	BUILDING F	100	335	300	3	120	1		-	\$ T.O.	(2#12,#12G) 3/4"C	A, B, C, D, E

△	Date	Description
-	2021.05.21	BP4D - GONDOLA SQUARE INTERIORS BLDG. A, C AND F - ISSUE FOR PERMIT AND CONSTRUCTION

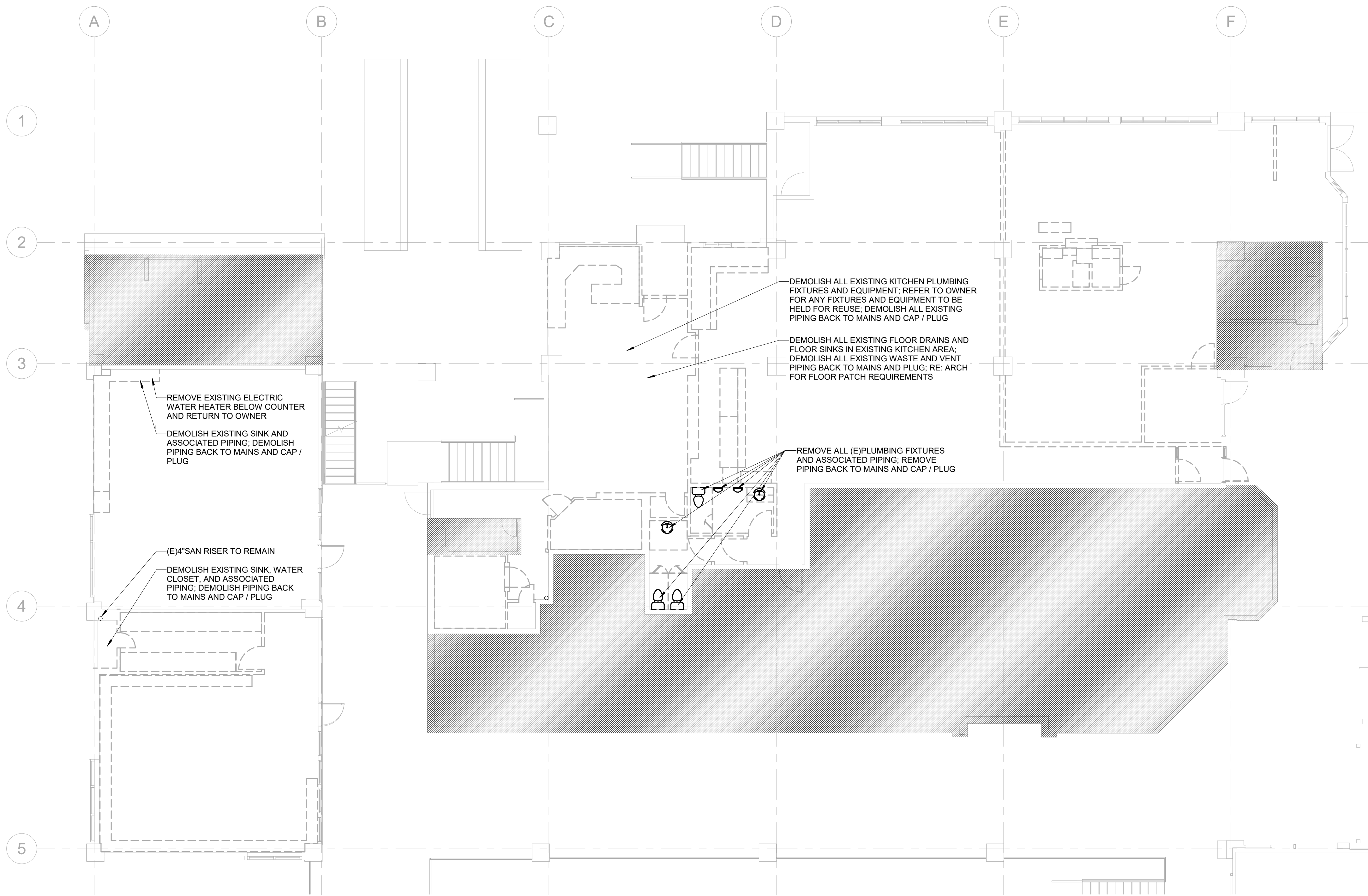
Seal / Signature



05/20/2021

Project Name	Steamboat Base Village Redevelopment
Project Number	003.7835.000
Description	PLUMBING SCHEDULES

Scale



GENERAL NOTES:

1. FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING, FIXTURES, AND EQUIPMENT SCHEDULED TO BE DEMOLISHED PRIOR TO COMMENSING WORK.
2. FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING THAT REQUIRES CONNECTION TO NEW PRIOR TO COMMENSING WORK.
3. REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.
4. PROVIDE BALL VALVE SHUTOFF AND 12\"X12\" ACCESS PANEL AT EACH SHOCK ABSORBER (SA). PANEL LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT.
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\" AFF
- 32 SANITARY PIPING UP TO PLUMBING FIXTURES
- 33 PIPING UP TO CLEANOUT
- 34 1/2\" CW & HW TO EACH LAV/SK
- 35 PIPING UP TO DRAIN
- 36 1/2\" CW & HW DOWN TO SHOWER VALVE & 1/2\" UP TO SHOWERHEAD



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△ Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT
2021.05.21	BP4D - GONDOLA SQUARE INTERIORS BLDG. A, C AND F - ISSUE FOR PERMIT AND CONSTRUCTION

Seal / Signature



05/20/2021

Project Name

Steamboat Base Village
Redevelopment

Project Number

003.7835.000

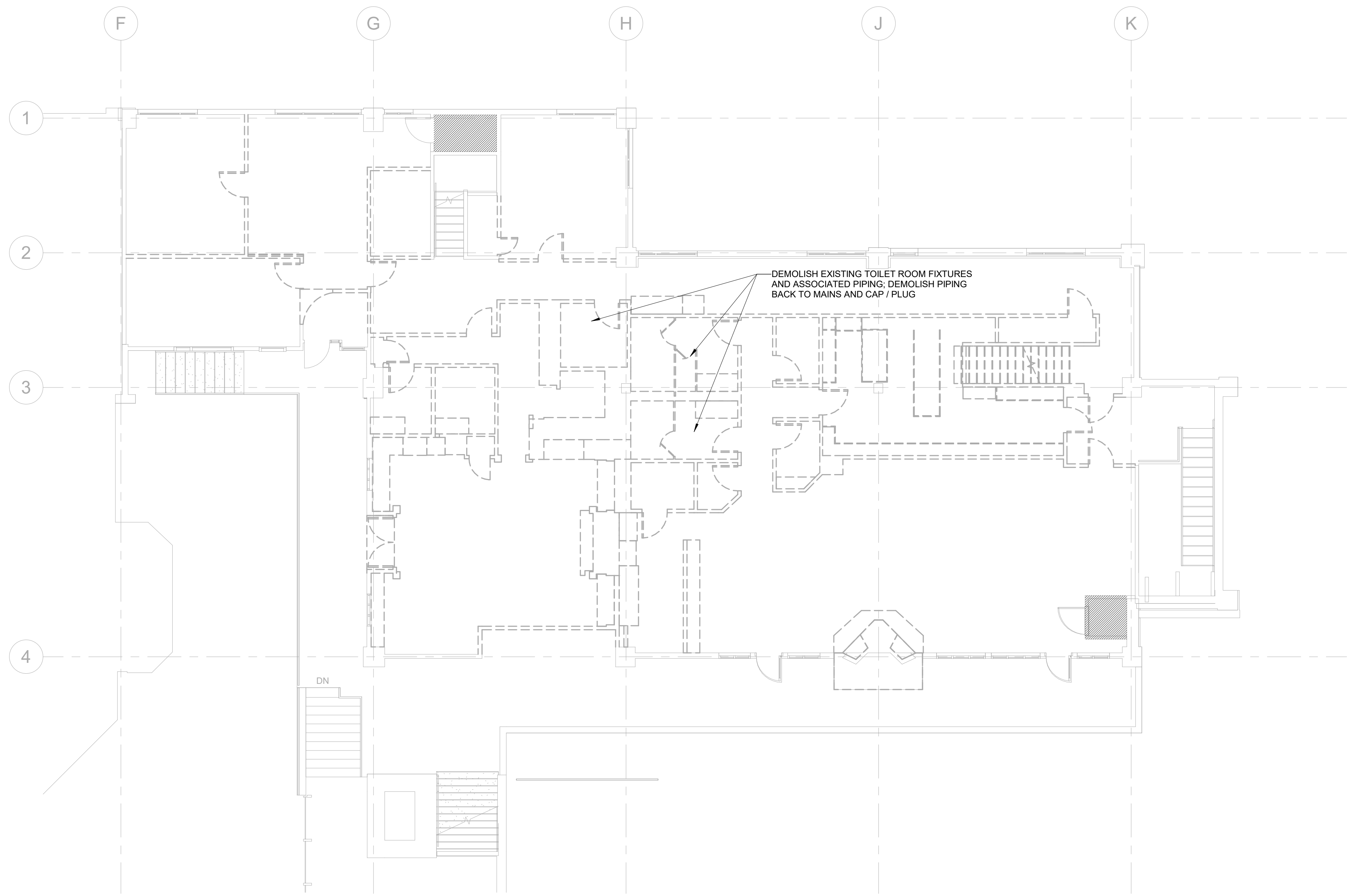
Description

PLUMBING DEMOLITION PLAN - C & F
BUILDING LEVEL 02

Scale

1/8" = 1'-0"

DP1.102



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

GENERAL NOTES:

1. FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING, FIXTURES, AND EQUIPMENT SCHEDULED TO BE DEMOLISHED PRIOR TO COMMENSING WORK.
2. FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING THAT REQUIRES CONNECTION TO NEW PRIOR TO COMMENSING WORK.
3. REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.
4. PROVIDE BALL VALVE SHUTOFF AND 12"X12" ACCESS PANEL AT EACH SHOCK ABSORBER (SA). PANEL LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT.
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" AFG |
| 32 | SANITARY PIPING UP TO PLUMBING FIXTURES |
| 33 | PIPING UP TO CLEANOUT |
| 34 | 1/2" CW & HW TO EACH LAV/ISK |
| 35 | PIPING UP TO DRAIN |
| 36 | 1/2" CW & HW DOWN TO SHOWER VALVE & 1/2" UP TO SHOWERHEAD |



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Lakewood, CO 80215
United States
Tel 303.431.6100

△ Date	Description
- 2021.05.21	BPAD - GONDOLA SQUARE INTERIORS BLDG. A, C AND F - ISSUE FOR PERMIT AND CONSTRUCTION

Seal / Signature



Project Name

Steamboat Base Village
Redevelopment

Project Number

003.7835.000

Description

PLUMBING DEMOLITION PLAN - A
BUILDING LEVEL 03 & 04

Scale

1/8" = 1'-0"

DP1.103

GENERAL NOTES:

1. FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING, FIXTURES, AND EQUIPMENT SCHEDULED TO BE DEMOLISHED PRIOR TO COMMENSING WORK.
2. FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING THAT REQUIRES CONNECTION TO NEW PRIOR TO COMMENSING WORK.
3. REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.
4. PROVIDE BALL VALVE SHUTOFF AND 12"X12" ACCESS PANEL AT EACH SHOCK ABSORBER (SA). PANEL LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT.
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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" AFG
- 32 SANITARY PIPING UP TO PLUMBING FIXTURES
- 33 PIPING UP TO CLEANOUT
- 34 1/2" CW & HW TO EACH LAV/SK
- 35 PIPING UP TO DRAIN
- 36 1/2" CW & HW DOWN TO SHOWER VALVE & 1/2" UP TO SHOWERHEAD

△	Date	Description
-	2021.05.21	BPAD - GONDOLA SQUARE INTERIORS BLDG. A, C AND F - ISSUE FOR PERMIT AND CONSTRUCTION

Seal / Signature



Project Name

Steamboat Base Village
Redevelopment

Project Number

003.7835.000

Description

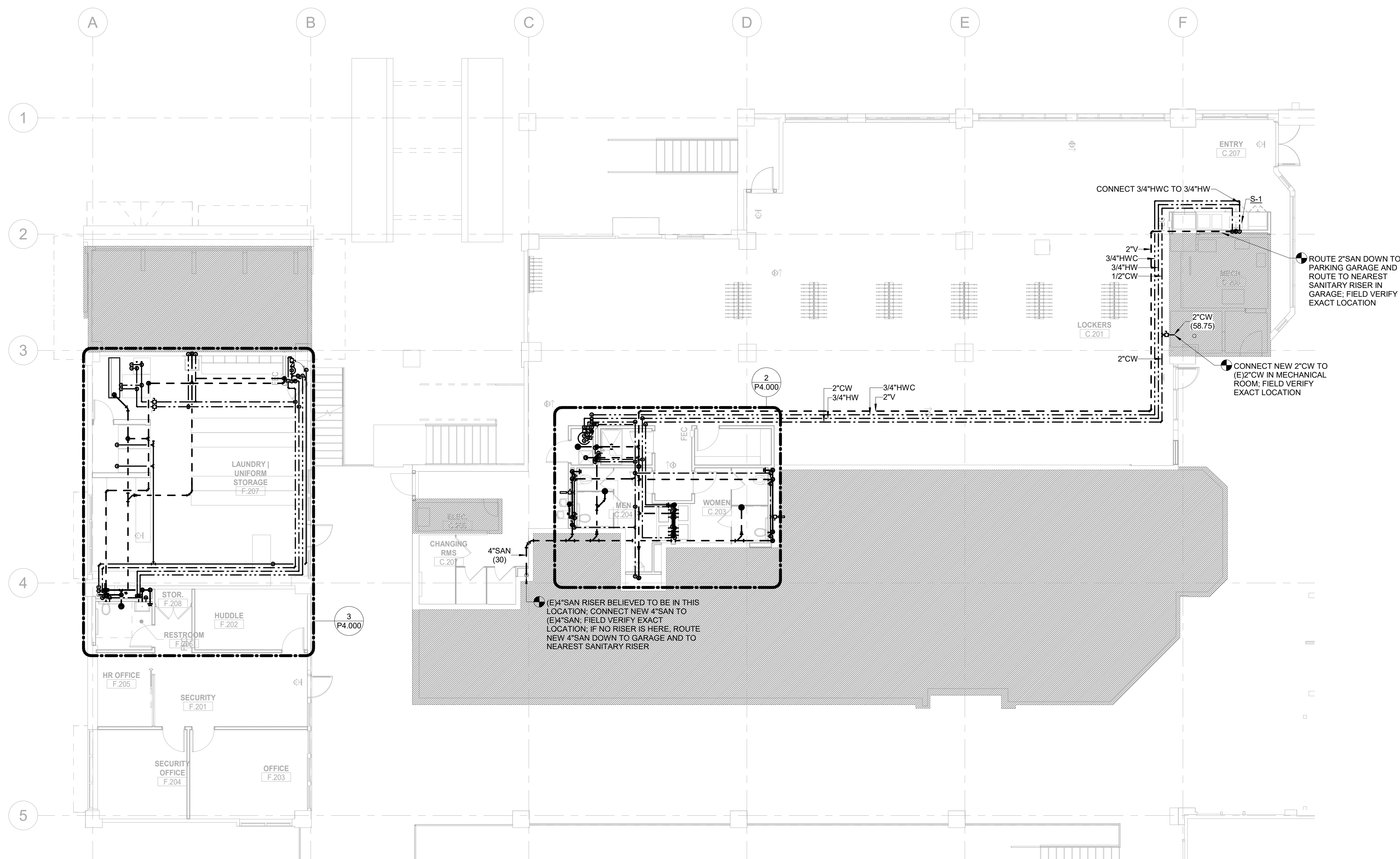
PLUMBING PLAN - C & F BUILDING
LEVEL 02

Scale

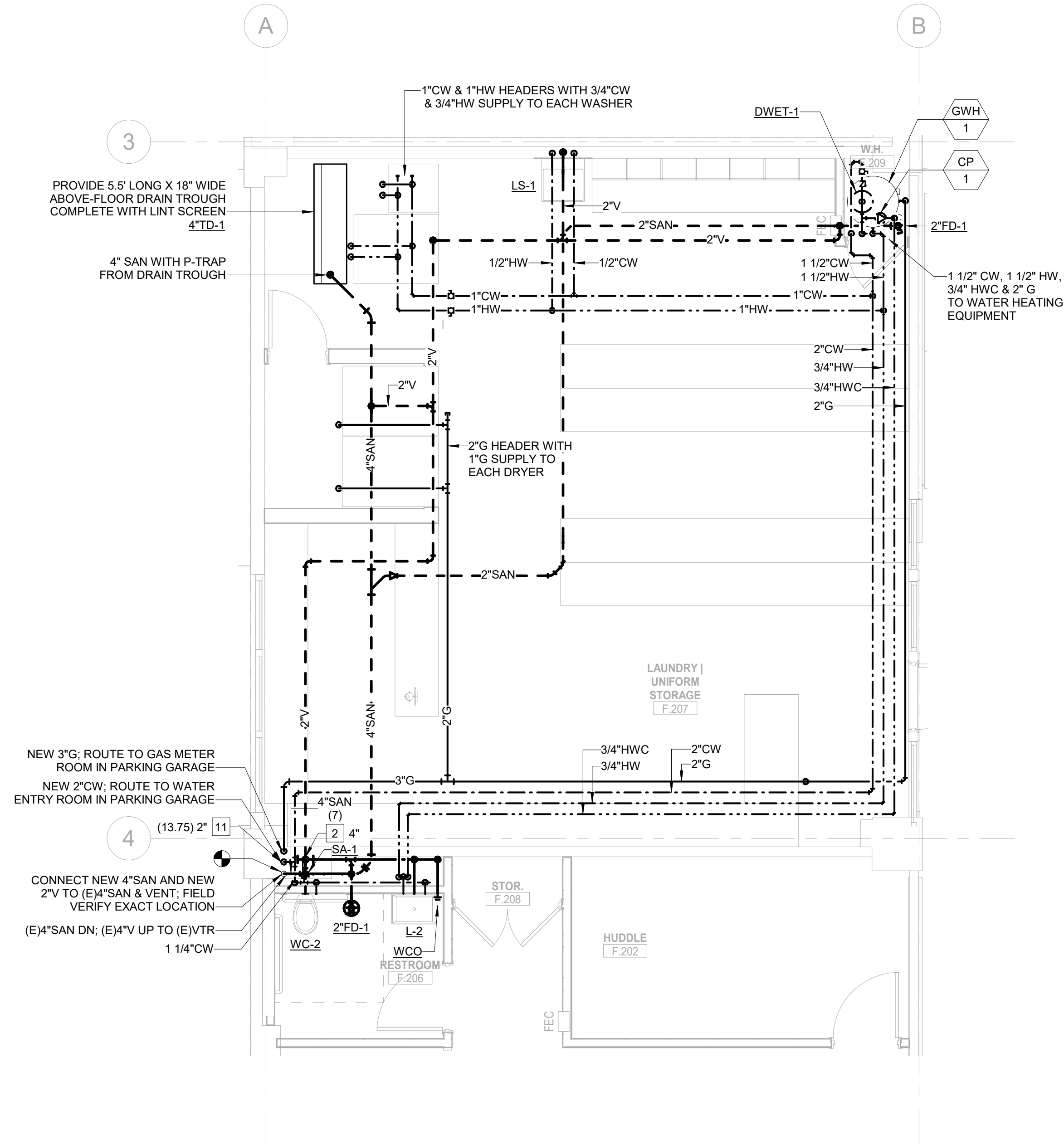
1/8" = 1'-0"

P1.202

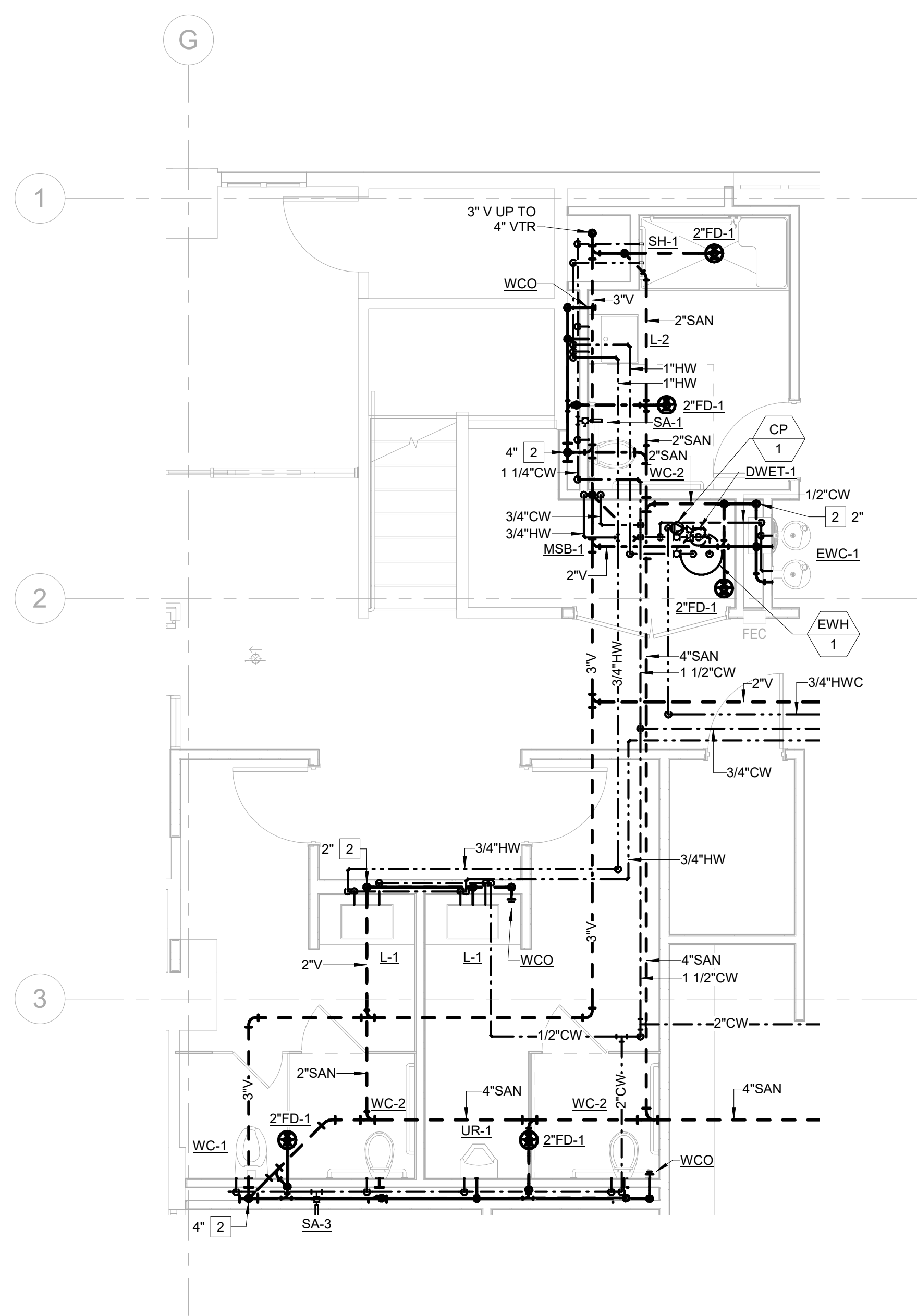
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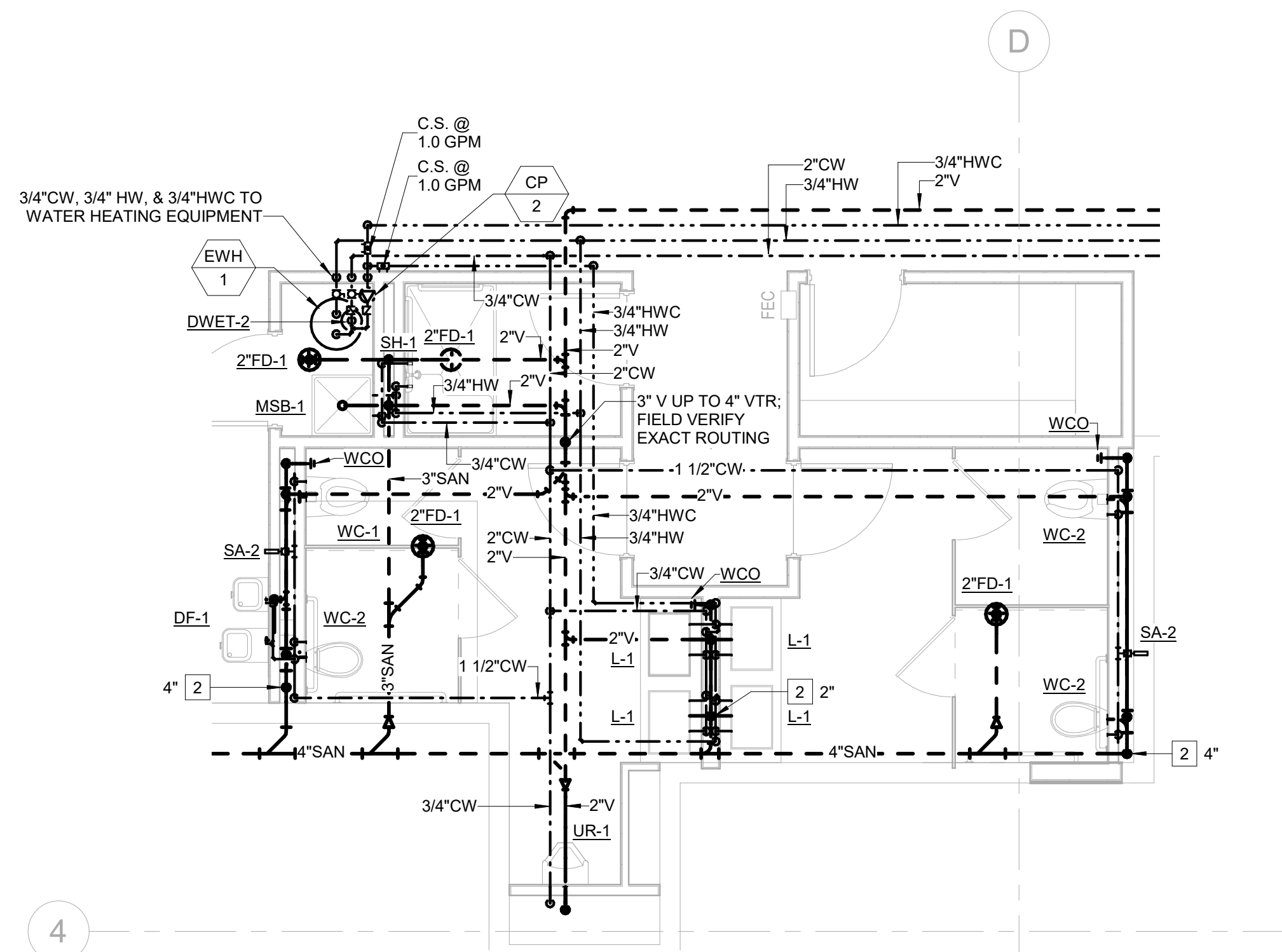




3 PLUMBING ENLARGED PLAN - BUILDING F
SCALE: 1/4" = 1'-0"



1 PLUMBING ENLARGED PLAN - BUILDING A RESTROOMS
SCALE: 1/4" = 1'-0"



2 PLUMBING ENLARGED PLAN - BUILDING C RESTROOMS
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING, FIXTURES, AND EQUIPMENT SCHEDULED TO BE DEMOLISHED PRIOR TO COMMENSING WORK.
2. FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING THAT REQUIRES CONNECTION TO NEW PRIOR TO COMMENSING WORK.
3. REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.
4. PROVIDE BALL VALVE SHUTOFF AND 12"X12" ACCESS PANEL AT EACH SHOCK ABSORBER (SA). PANEL LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT.
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" AFG |
| 32 | SANITARY PIPING UP TO PLUMBING FIXTURES |
| 33 | PIPING UP TO CLEANOUT |
| 34 | 1/2" CW & HW TO EACH LAV/SK |
| 35 | PIPING UP TO DRAIN |
| 36 | 1/2" CW & HW DOWN TO SHOWER VALVE & 1/2" UP TO SHOWERHEAD |

Steamboat.

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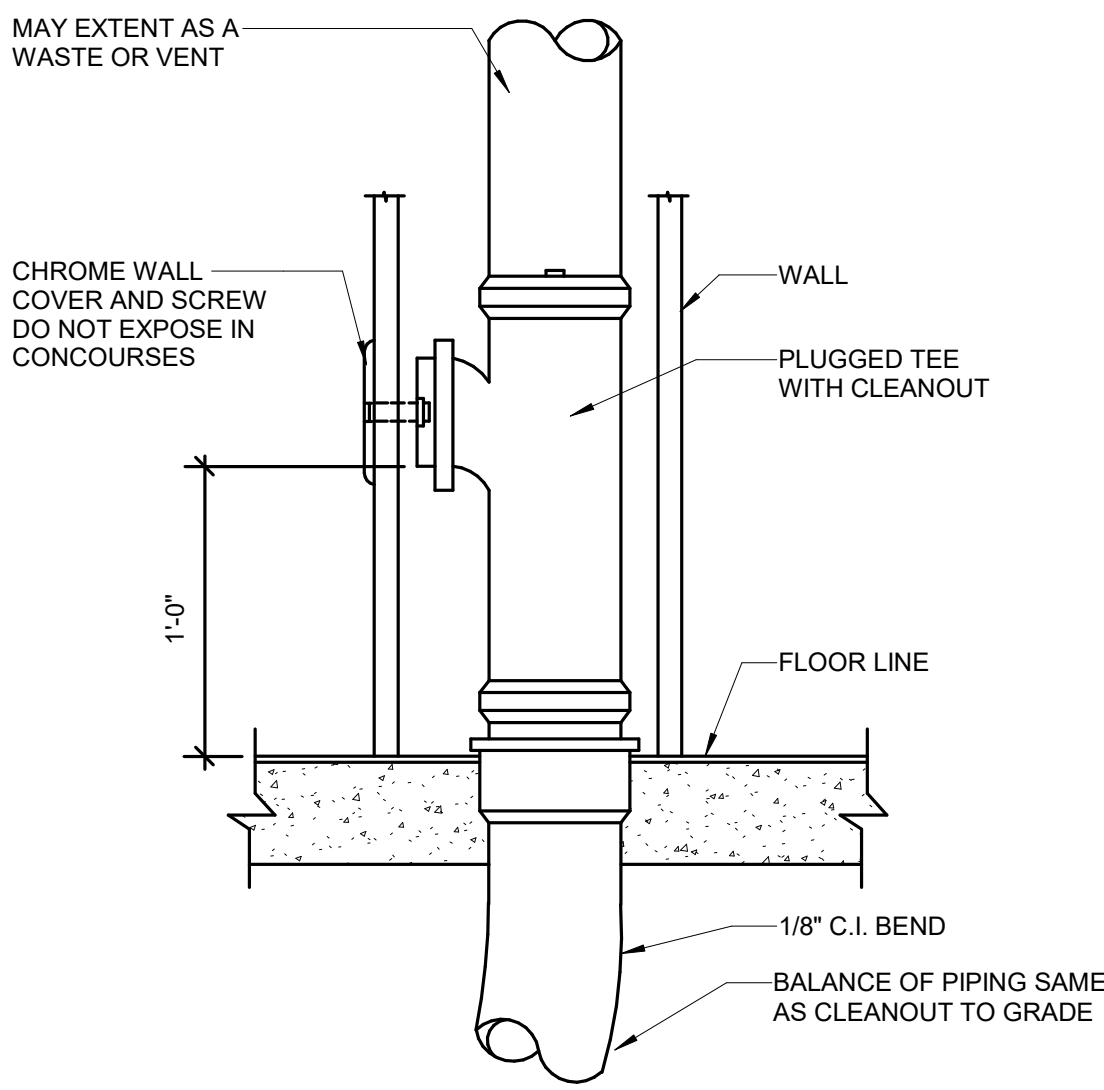
ENLARGED PLUMBING PLANS

Scale

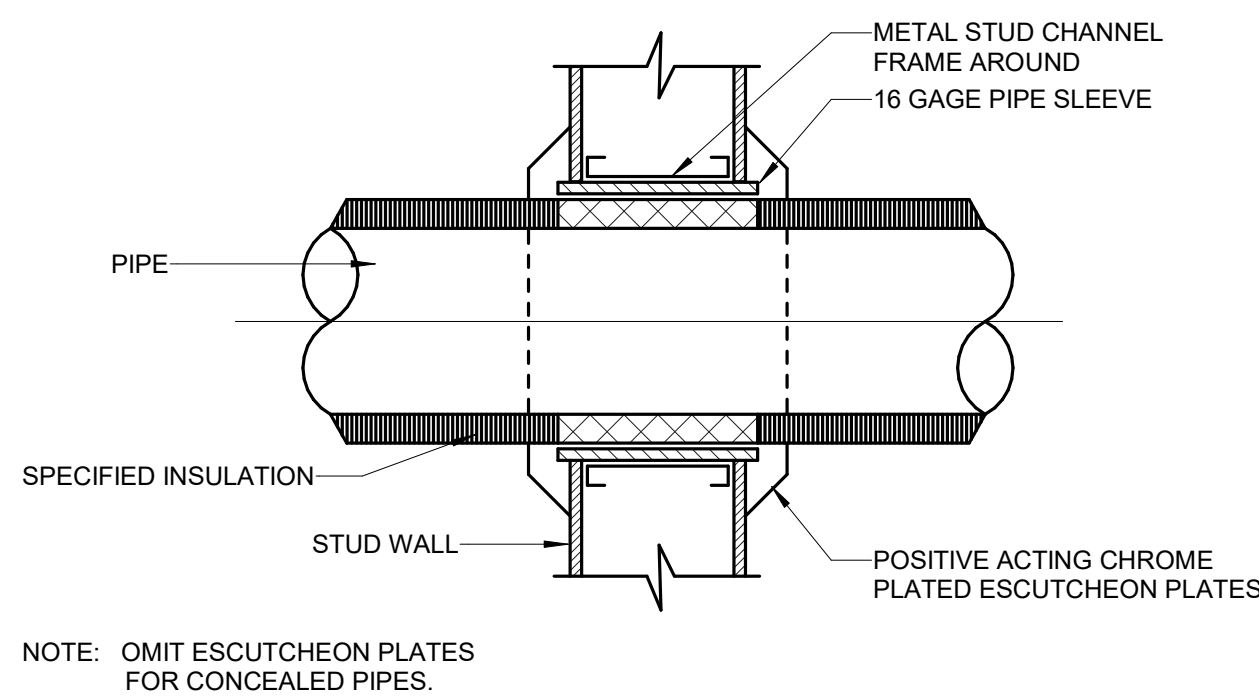
1/4" = 1'-0"

P4.000

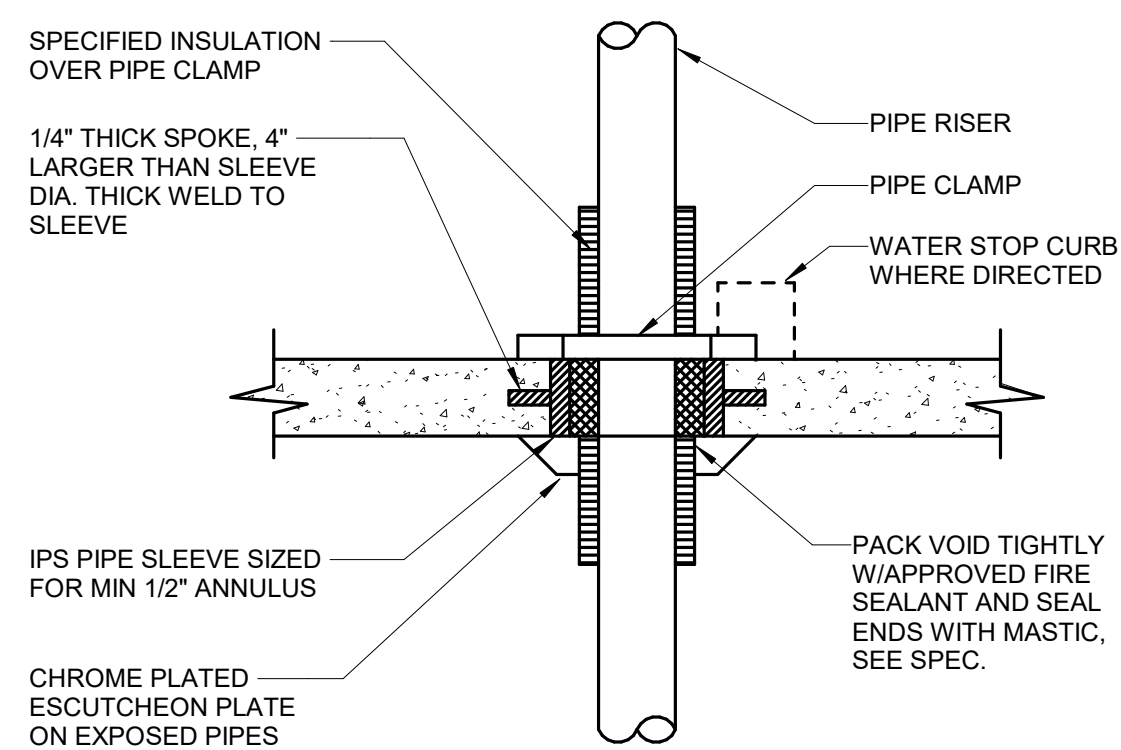




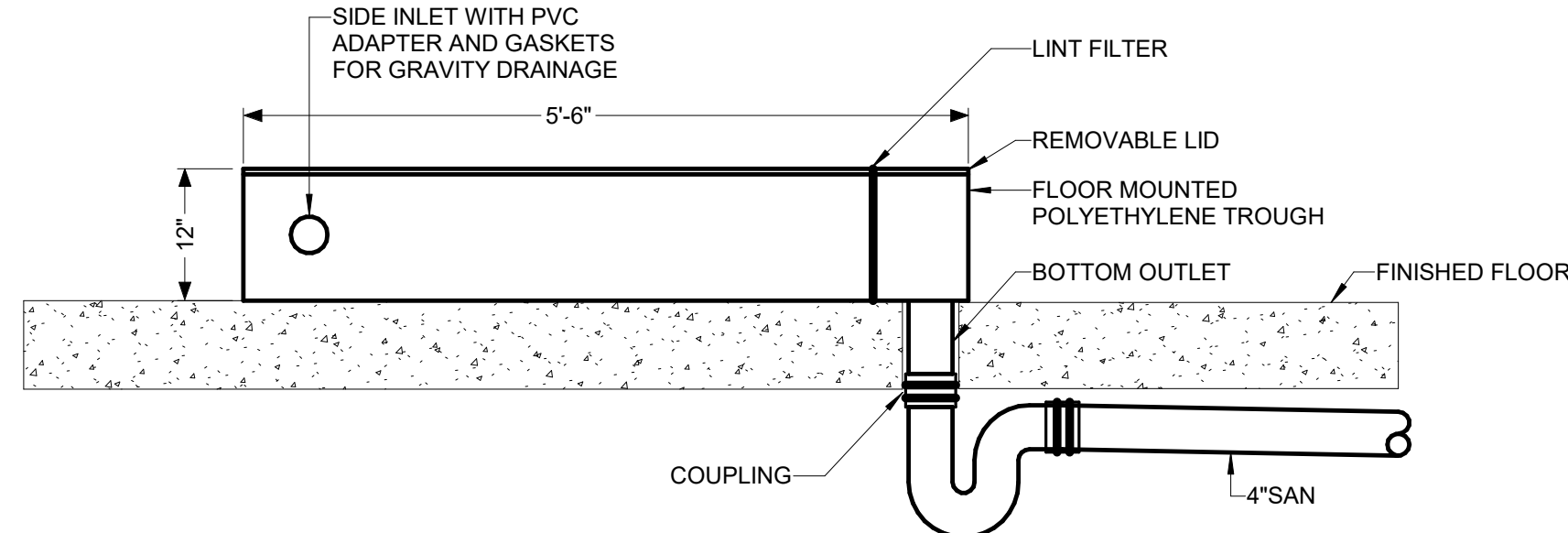
8 WALL CLEANOUT DETAIL
NO SCALE



9 PIPE THRU STUD WALL DETAIL
NO SCALE



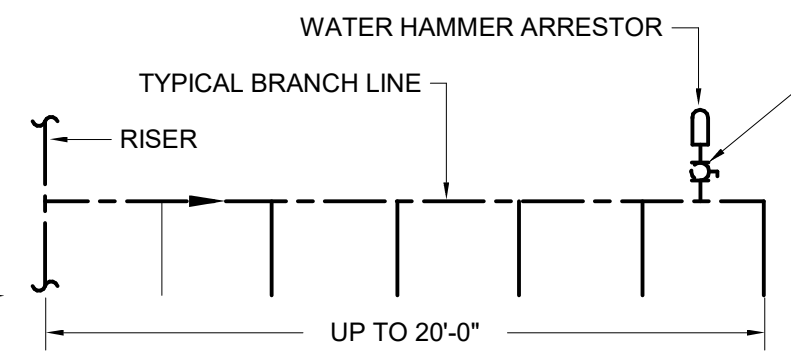
10 PIPE THRU FLOOR SLAB DETAIL
NO SCALE



11 LAUNDRY TROUGH DRAIN DETAIL
NO SCALE

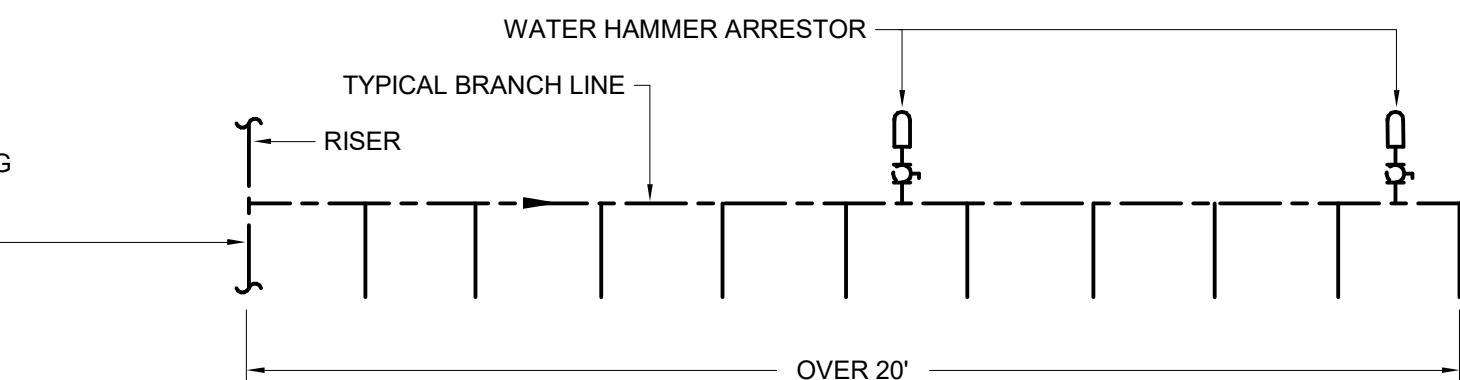
BRANCH LINES OF 20 FEET OR LESS

PLACE WATER HAMMER ARRESTOR AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED, AS SHOWN. SELECT REQUIRED MODEL USING FIXTURE UNIT SIZING.



BRANCH LINES EXCEEDING 20 FEET

PLACE AN ADDITIONAL WATER HAMMER ARRESTOR AS SHOWN AT RIGHT. SELECT REQUIRED MODELS USING FIXTURE UNIT SIZING. THE SUM OF THE FIXTURE UNIT RATINGS OF UNITS X AND Y SHALL BE EQUAL TO OR GREATER THAN THE DEMAND OF THE BRANCHES.



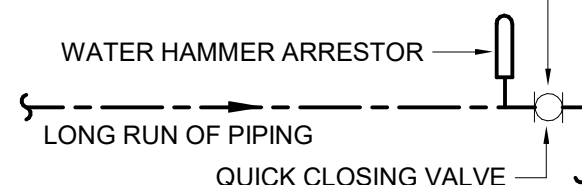
WATER HAMMER ARRESTOR CAPACITIES				
CODE	CONN. SIZE	PDI SIZE	FIXTURE UNIT CAPACITY	CUBIC INCH VOLUME
SA-1	1/2"	A	1 TO 11	5
SA-2	3/4"	B	12 TO 32	7
SA-3	1"	C	33 TO 60	11
SA-4	1"	D	61 TO 113	20
SA-5	1"	E	114 TO 154	29
SA-6	1"	F	155 TO 330	34

NOTE: MATCH TOTAL FIXTURE UNITS OF BRANCH LINE TO CORRECT SIZE OF WATER HAMMER ARRESTOR.

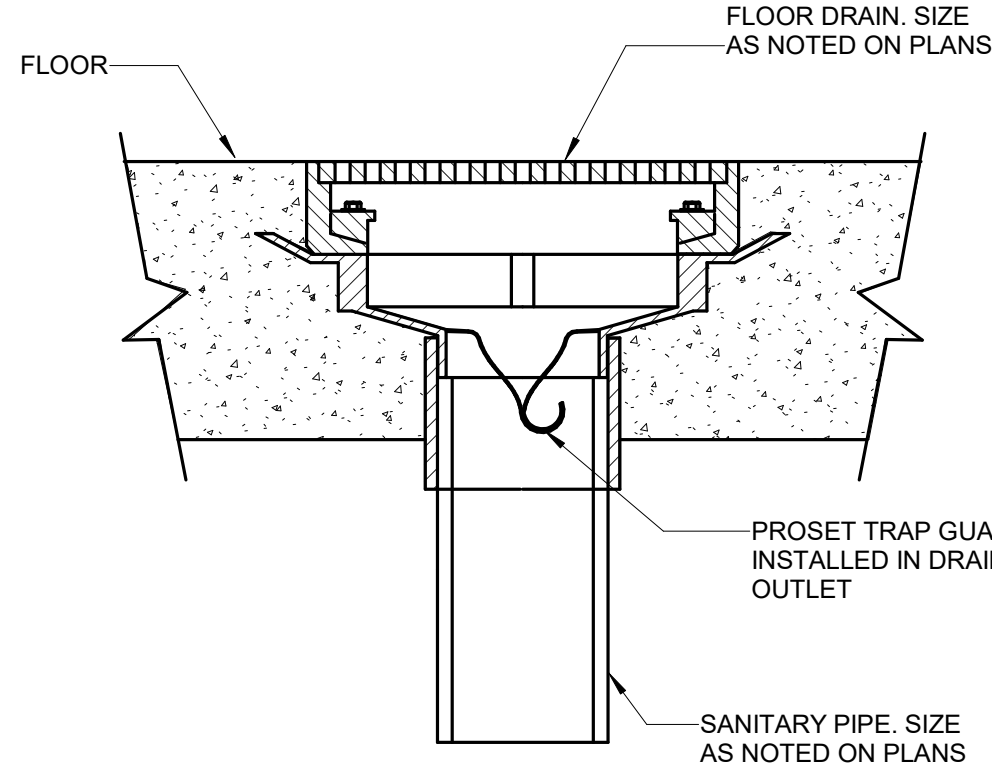
P.D.I. WATER HAMMER ARRESTORS		NOMINAL PIPE DIAMETERS					
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
25'	A	A	B	C	D	E	
50'	A	B	C	D	E	F	
75'	B	C	D	AE	F	EF	
100'	C	D	E	F	CF	FF	
125'	C	D	F	AF	EF	EFF	
150'	D	E	F	DF	FF	FFF	

WHEN LONG RUNS OF PIPING ARE EMPLOYED TO SERVE REMOTE EQUIPMENT, WATER HAMMER ARRESTOR SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO THE POINT OF QUICK CLOSURE.

THE SIZE AND QUANTITY OF WATER HAMMER ARRESTORS TO BE INSTALLED IN BRANCH LINES IS SHOWN IN TABLE. WHEN FLOW PRESSURES OF 65 TO 85 PSIG ARE USED, THE NEXT LARGER SIZE SHOULD BE SELECTED.

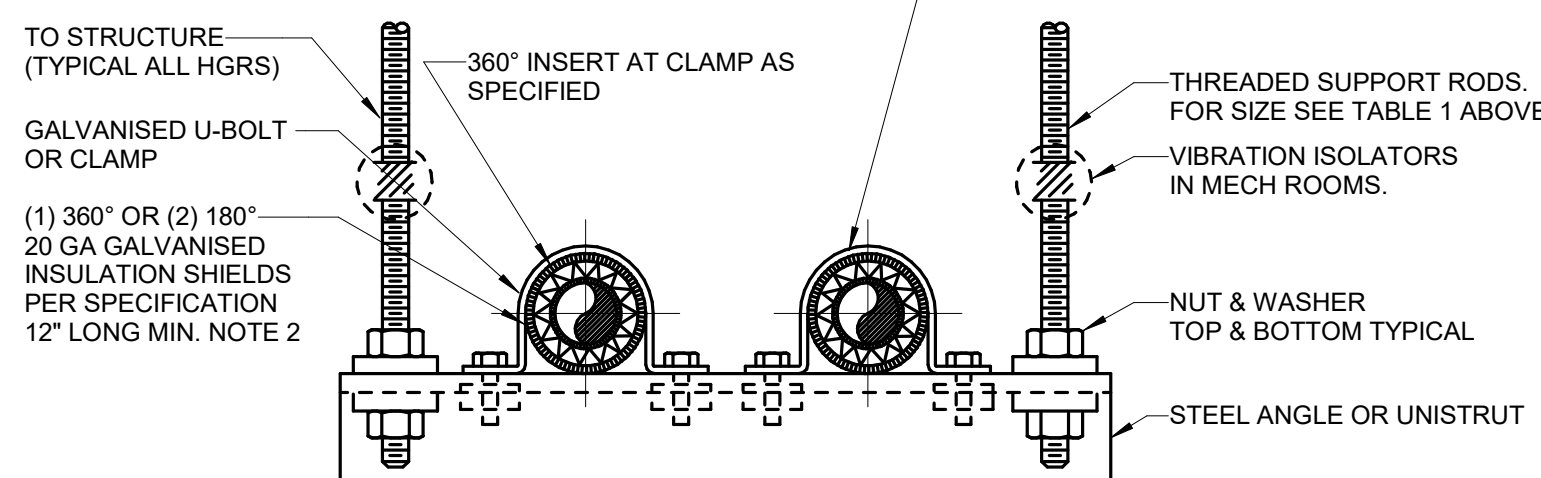


5 WATER HAMMER ARRESTOR INSTALLATION AND SIZING DETAIL
NO SCALE

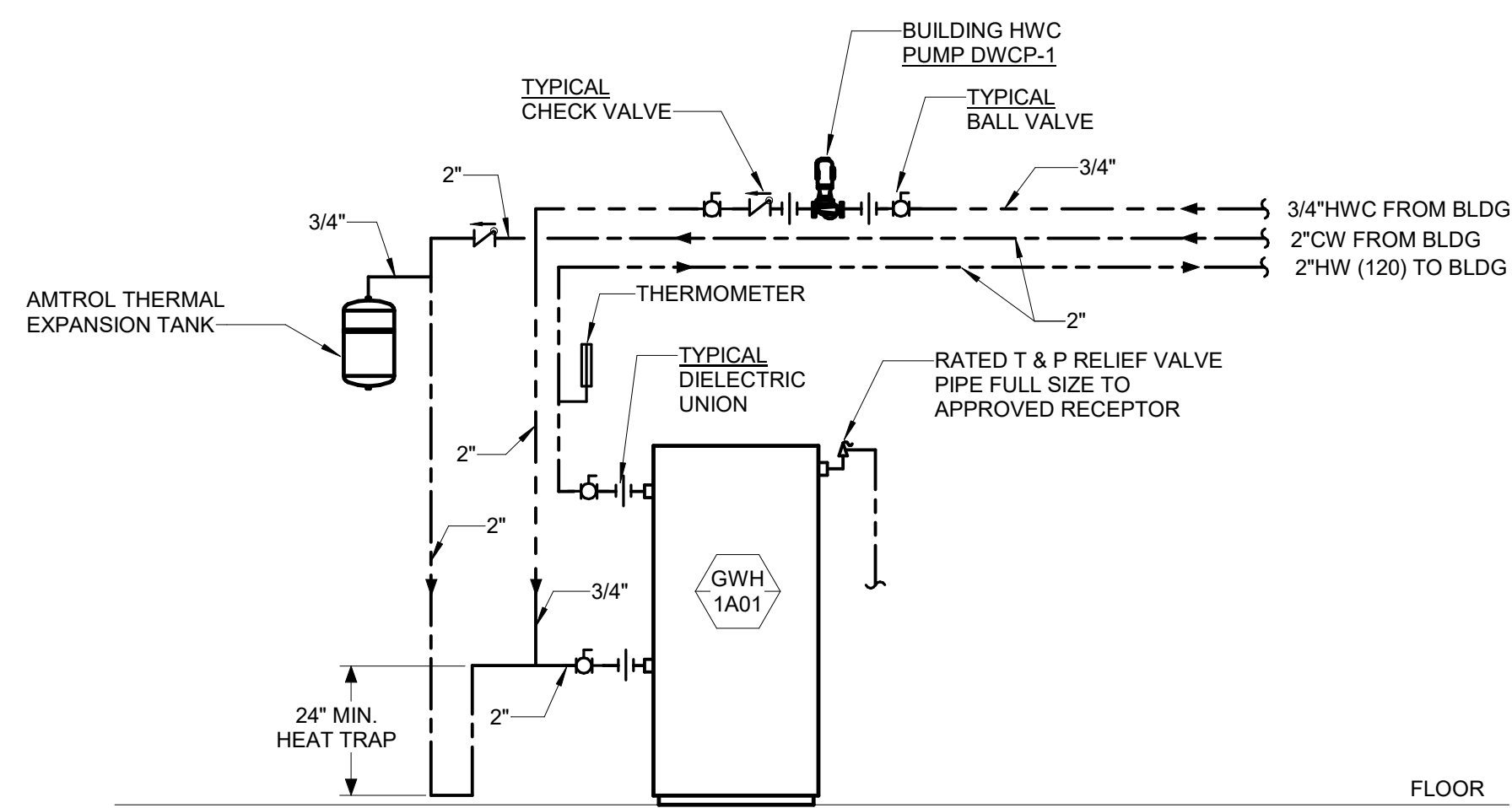


6 TRAP GUARD DETAIL
NO SCALE

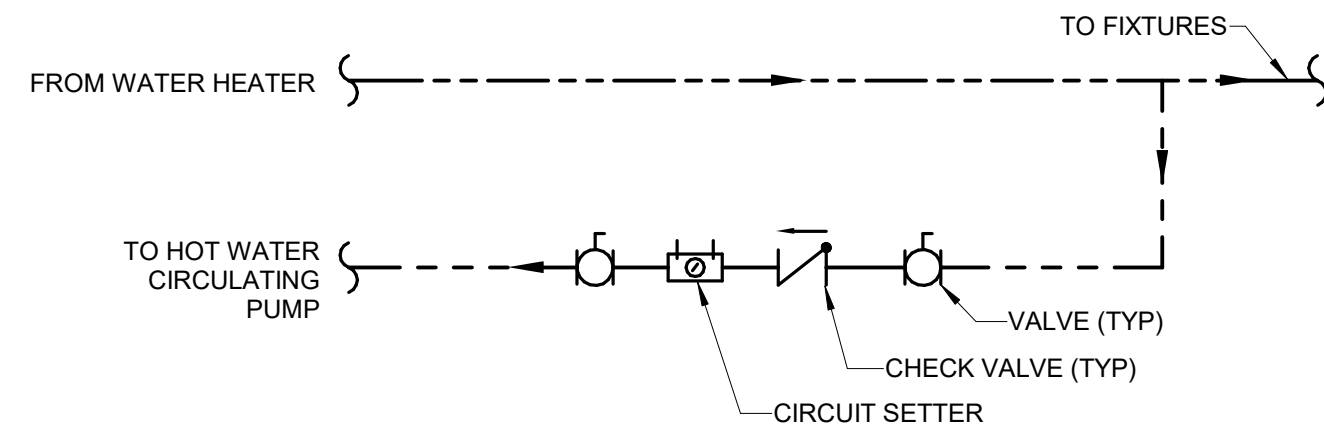
NOTE:
1. SUBMIT ANCHORING METHOD TO STRUCTURAL ENGINEER FOR APPROVAL.
2. 180" INSULATION SHIELDS MUST BE BANDED, USE SS OR PLENUM RATED NYLON, 2PCS EACH.
3. SEE SPECIFICATION FOR PAINT REQUIREMENTS ON SUPPORTS.



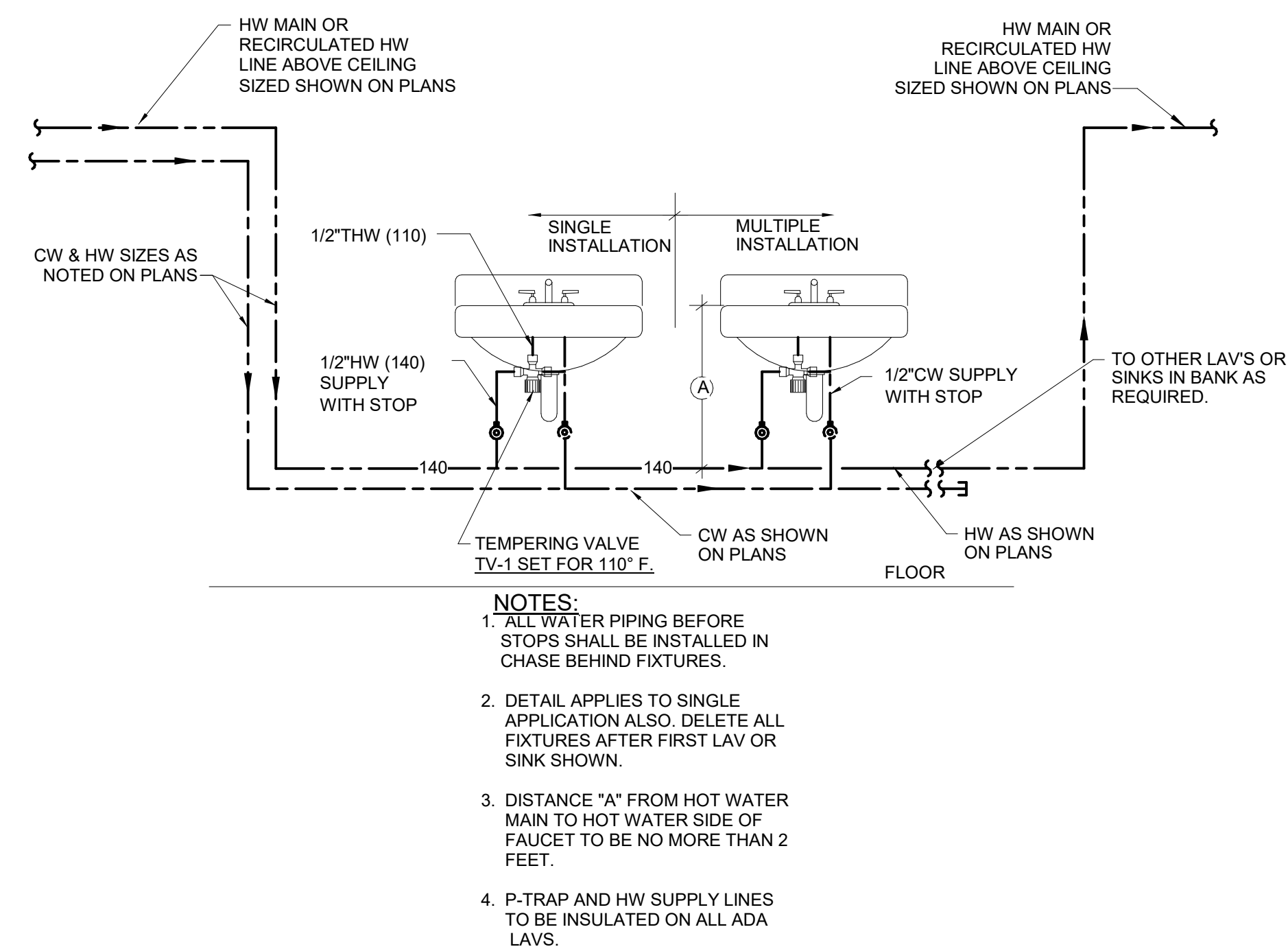
7 DOMESTIC PIPING HANGER DETAIL
NO SCALE



1 GAS FIRED WATER HEATER DETAIL
NO SCALE

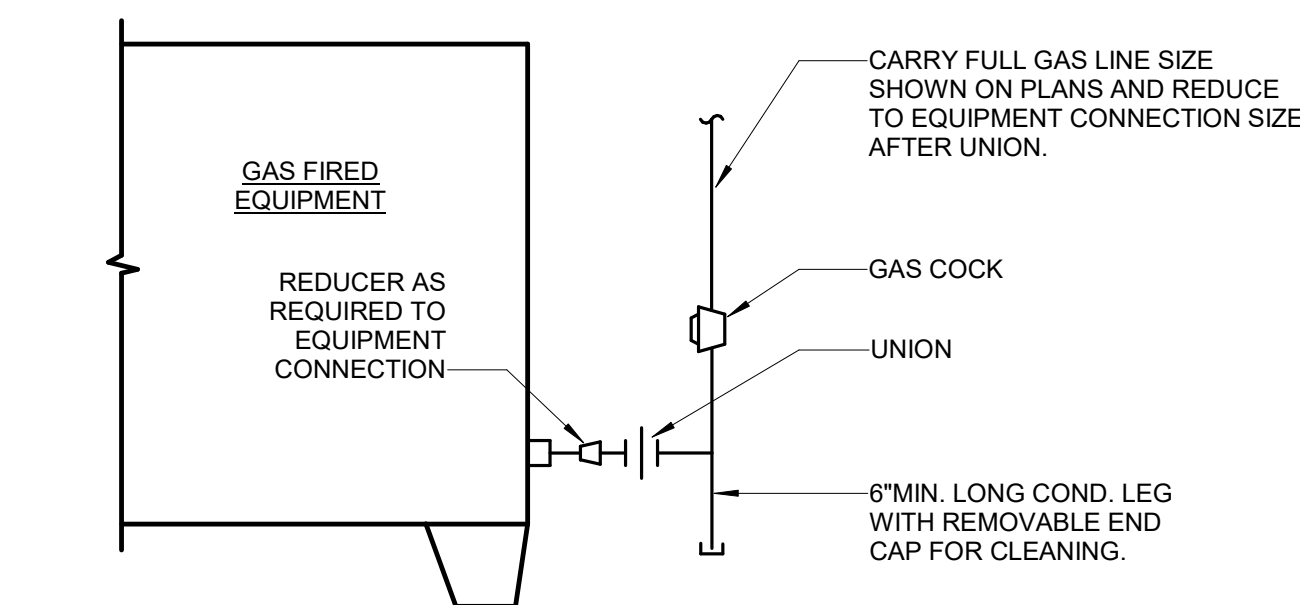


2 HOT WATER RECIRC DETAIL
NO SCALE



NOTES:
1. ALL WATER PIPING BEFORE STOPS SHALL BE INSTALLED IN CHASE BEHIND FIXTURES.
2. DETAIL APPLIES TO SINGLE APPLICATION ALSO, DELETE ALL FIXTURES AFTER FIRST LAV OR SINK SHOWN.
3. DISTANCE "A" FROM HOT WATER MAIN TO HOT WATER SIDE OF FAUCET TO BE NO MORE THAN 2 FEET.
4. P-TRAP AND HW SUPPLY LINES TO BE INSULATED ON ALL ADA LAVS.

3 MANUAL PUBLIC LAV TEMPERING VALVE DETAIL
NO SCALE



4 TYPICAL GAS PIPING CONNECTION TO EQUIP
NO SCALE

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Description

PLUMBING DETAILS

Scale

NO SCALE

P8.000