

				EXHA	<b>NUST FA</b>	N SCH	EDULE	
SYM.	TYPE	C.F.M.	S.P.E.	H.P.	CHAR.	R.P.M.	CONTROL	REMARKS
(EF)	ROOF MOUNTED DOWN FLOW	600	.38"	1/4	120/60/1	1350	WITH LIGHTS	TWIN CITY MODEL 095BE-DCRD. MOUNT ON ROOF CURB
EF 2	ROOF MOUNTED DOWN FLOW	300	.25"	1/6	120/60/1	950	WITH LIGHTS	TWIN CITY MODEL 090BE-DCRD. MOUNT ON ROOF CURB
EF 3	ROOF MOUNTED DOWN FLOW	600	.38"	1/4	120/60/1	1350	WITH LIGHTS	TWIN CITY MODEL 095BE-DCRD. MOUNT ON ROOF CURB
EF 4	ROOF MOUNTED DOWN FLOW	300	.25"	1/6	120/60/1	950	WITH LIGHTS	TWIN CITY MODEL 090BE-DCRD. MOUNT ON ROOF CURB
EF 5	ROOF MOUNTED UTILITY VENT SET	240	.50"	1/4	120/60/1	1160	WITH HOOD	TWIN CITY MODEL 90 DCV. MOUNT ON ROOF CURB
EF 6	ROOF MOUNTED UTILITY VENT SET	240	.50"	1/4	120/60/1	1160	WITH HOOD	TWIN CITY MODEL 90 DCV. MOUNT ON ROOF CURB
EF 7	ROOF MOUNTED UTILITY VENT SET	560	.50"	1/4	120/60/1	1750	WITH HOOD	TWIN CITY MODEL 90 DCV. MOUNT ON ROOF CURB
EF 8	ROOF MOUNTED UTILITY VENT SET	560	.50"	1/4	120/60/1	1750	WITH HOOD	TWIN CITY MODEL 90 DCV. MOUNT ON ROOF CURB
EF)	ROOF MOUNTED UTILITY VENT SET	240	.50"	1/4	120/60/1	1160	WITH HOOD	TWIN CITY MODEL 90 DCV. MOUNT ON ROOF CURB
EF 10	CEILING MOUNTED	100	.25"	87 W	120/60/1	640	WITH LIGHTS	TWIN CITY MODEL T100WITH 6" Dia. DUCT UP TO ROOF CAP
EF 11	CEILING MOUNTED	230	.5"	166 W	120/60/1	830	COOLING STAT	TWIN CITY MODEL T250WITH 10"x4" DUCT UP TO WALL CAP

ELECTRIC HEATER SCHEDULE										
SYM.	TYPE	BTU	KW	CHAR	CONTROL	REMARKS				
EH 1	SURFACE WALL MOUNTED	6824	2	208/60/1	INTEGRAL	QMARK MODEL AWH4408 WITH AWH-SM MOUNTING FRAME				
EH 2	SURFACE WALL MOUNTED	13650	4	208/60/1	INTEGRAL	QMARK MODEL AWH4408 WITH AWH-SM MOUNTING FRAME				

				GRILL	LE AND F	REGIST	ER SCH	<b>IEDUL</b>	E	
	SYM.	SIZE (W x H)	THROW	CFM	CONSTR.	FINISH	BRANCH DUCT	F.D.	O.B.	REMARKS
	CD-1	9 x 9	4₽	50-199	STEEL	WHITE	8" Dia.	NO	NO	PRICE SMD IN 24x24 LAY-IN MODULE
	CD-2	12 x 12	4₽	200-400	STEEL	WHITE	10" Dia.	NO	NO	PRICE SMD IN 24x24 LAY-IN MODULE
	CD-3	12 x 12	4₽	200-400	STEEL	WHITE	10" Dia.	NO	YES	PRICE SMD WITH BEVELED FRAME
	CD-4	9 x 9	4⊠Þ	50-199	STEEL	WHITE	8" Dia.	NO	NO	PRICE SMD WITH BEVELED FRAME
	CD-5	15 x 15	4₽	500	STEEL	WHITE	12" Dia.	NO	NO	PRICE SMD WITH BEVELED FRAME
_	RG-1	12 x 6		0-160	STEEL	WHITE	12 x 3-1/2" UN-LINED	NO	NO	PRICE 535L
	RG-2	12 x 12		50-400	STEEL	WHITE	12 x 10	NO	NO	PRICE 535 IN 24x24 LAY-IN MODULE
	RG-3	18 x 18		401-800	STEEL	WHITE	18 x 10	NO	NO	PRICE 535 IN 24x24 LAY-IN MODULE
	ER-1	12 x 12	********	0-400	STEEL	WHITE	10 x 10	NO	YES	PRICE 535D
	PH-1	18 x 24 x 31.8"			ALUM	ANODIZED	18 x 24	NO	NO	PENNBARRY PH WITH MOTORIZED DAMPER AND BIRD SCREEN.

	∴ SPLIT SYSTEM A/C UNIT SCHEDULE													
{	INDOOR UNIT							OUTDOOR UNIT						
} [S	SYM.	CFM	BTU	CHAR	MCA		SYM.	BTU	MCA	SEER	CHAR	MANUFACTURER	LIQUID	SUCTION
	FC 1A	600-700	30,000	208/60/1	1	MITSUBISHI MODEL PKA-A30KA WITH WALL MOUNTED CONTROLLER AND COND. PUMP	FC 1B	30,000	25	16	208/60/1	MITSUBISHI MODEL PUY-A30NHA3 WITH LOW AMBIENT 'HARD-START' KIT	3/8"	5/8"
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Engineered DATE: 6/30/2021 DCS **Associates** Checked

Systems

(208) 233-052

SCHEDULES AND DETAILS

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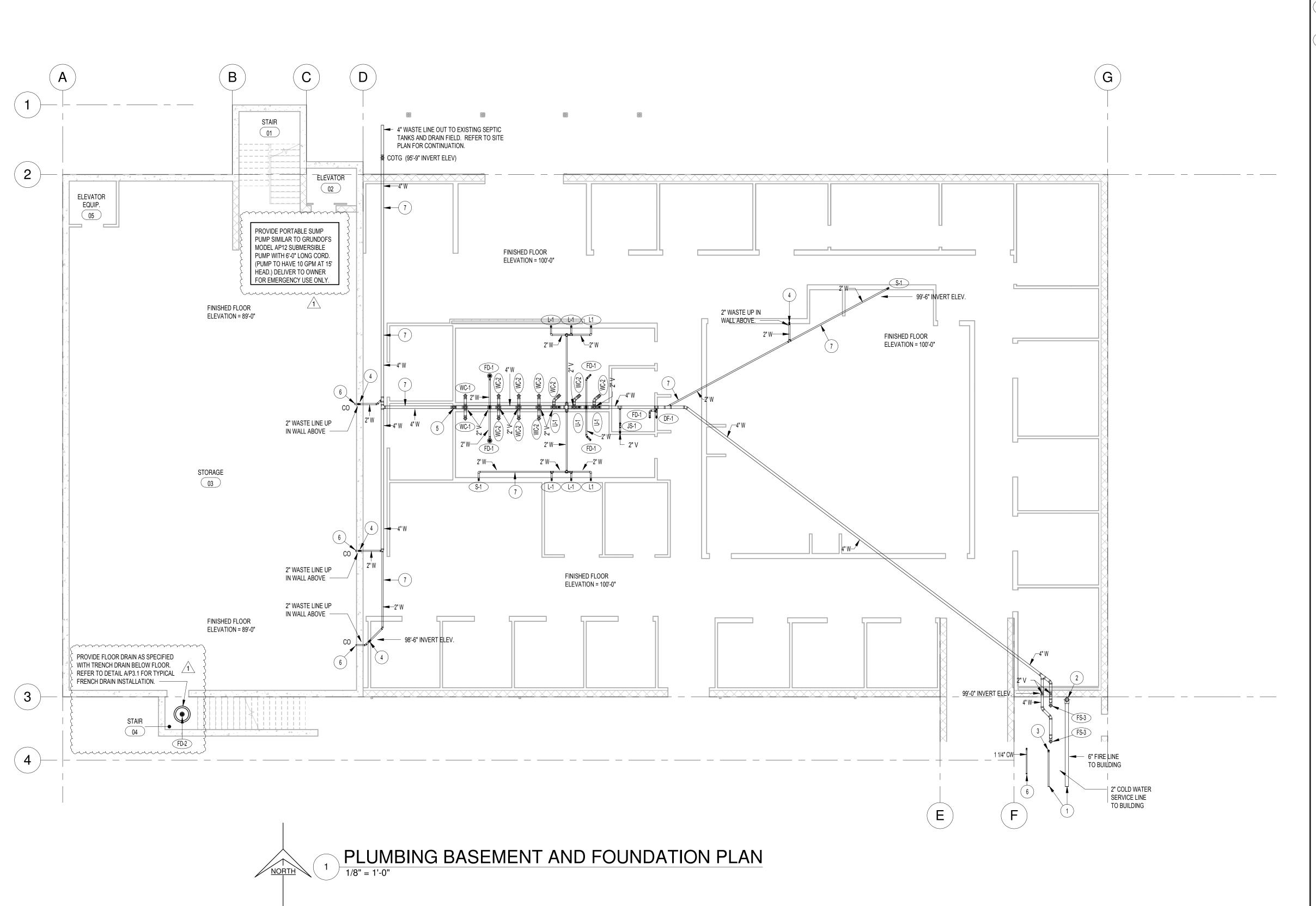
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ACILITY FOR:



REFER TO SITE PLAN FOR CONTINUATION OF PIPING.

RISE 6" FIRE WATER LINE UP THRU FLOOR AND CONNECT TO FIRE RISER AND ALARM VALVE. REFER TO DETAIL A/P3.2 FOR TYPICAL PIPING CONNECTIONS.

RISE 2" COLD WATER SERVICE LINE UP THRU FLOOR AND CONNECT TO PRESSURE REDUCING VALVE. REFER TO DETAIL M/P3.1 FOR TYPICAL CONNECTIONS

WASTE LINE DOWN FROM FIXTURES ON UPPER LEVEL. REFER TO SHEET P1.1 FOR CONTINUATION OF PIPING. EXTEND WASTE PIPING INTO BASEMENT AND CAP FOR CLEANOUT.

AP FOR CLEANOUT.

1" WASTE LINE LIP IN WALL AROVE REFER TO LARGE SCALE PLAN 1/P2 1 & 2/P

4" WASTE LINE UP IN WALL ABOVE. REFER TO LARGE SCALE PLAN 1/P2.1 & 2/P2.1 FOR CONTINUATION.

6 EXTEND 1-1/4" COLD WATER OUT AND CAP FOR FUTURE LANDSCAPING IRRIGATION SYSTEM. REFER TO DETAIL M/P3.1 FOR TYPICAL PIPING CONNECTION TO BACK-FLOW PREVENTION DEVICE.

WASTE PIPING BELOW FLOOR TO BE GRADED AT 1/4" PER FOOT. KEEP AS HIGH AS POSSIBLE.

A NEW FACILITY FOR:

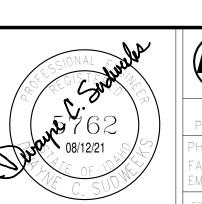
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Ricks Architecture itecture/planning\_\_\_\_\_\_

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architecture/pla

935 Shoshone Street North \* Twin





ASSOCIATES

1355 EAST CENTER
POCATELLO, IDAHO 83201

PHONE: (208) 233-0501

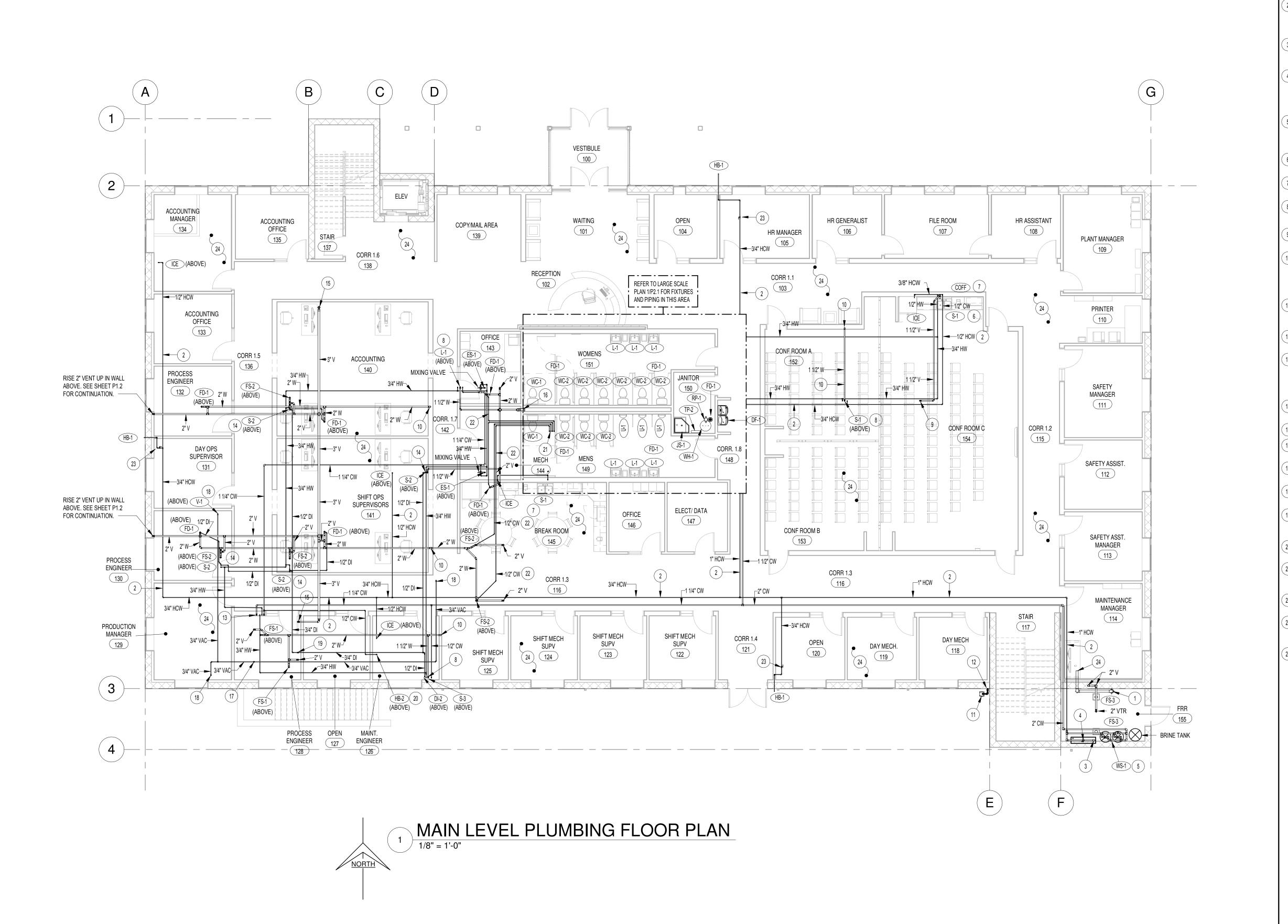
FAX: (208) 233-0529

EMAIL: esa@engsystems.com

P1.0

DATE: 6/30/2021

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RISE 6" FIRE LINE UP THRU FLOOR AND CONNECTION TO FIRE RISER AND ALARM VALVE. REFER TO DETAIL A/P3.2 FOR TYPICAL PIPING CONNECTIONS.

) "HARD" COLD WATER (HCW) TO BE RUN TO ALL BREAK ROOM SINKS. CONFERENCE ROOM SINKS, COFFEE MAKERS, DRINKING FOUNTAINS, ICE MAKER HOOK-UPS, AND ALL EXTERIOR HOSE BIBBS. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P3.2

RISE 2" DOMESTIC COLD-WATER LINE UP THRU FLOOR AND CONNECT TO PRESSURE REDUCING STATION. REFER TO FOUNDATION PLAN ON SHEET P1.0 FOR CONTINUATION.

PROVIDE AND INSTALL 2" DOMESTIC PRESSURE REDUCING VALVE AND 1-1/4" LAWN SPRINKLER BACK-FLOW PREVENTION DEVICE. RUN 2" COLD WATER LINE TO WATER SOFTNER. (REFER TO DETAIL O/P3.1) RISE 1" "HARD" WATER LINE UP INTO CEILING SPACE AND RUN AS SHOWN. REFER TO DETAIL M /P3.1 FOR TYPICAL PIPING CONNECTIONS.

PROVIDE AND INSTALL DUPLEX WATER SOFTENER SYSTEM WITH SINGLE BRINE TANK AS SPECIFIED. CONNECT TO 2" COLD WATER LINE FOR ALL FIXTURES IN BUILDING EXCEPT THOSE OTHERWISE NOTED. (SEE PLUMBING FIXTURE SCHEDULE ON SHEET P3.2)

angle provide 3/8" hard cold water line from Sink to ice utility box. Run

PROVIDE 3/8" TEE AND SHUT-OFF VALVE IN HARD COLD WATER LINE BELOW SINK FOR FUTURE COFFEE MAKERS.

 $^{
m J}$  rise 1/2" hot and cold water lines and 1-1/2" waste line up thru floor AND CONNECT TO FIXTURE ABOVE. REFER TO SHEET P1.2 FOR FIXTURES ON

RISE 1-1/2" VENT LINE UP IN THE WALL ABOVE. REFER TO SHEET P1.2 FOR CONTINUATION OF VENT PIPING ON UPPER LEVEL.

RUN WASTE LINE THRU CEILING SPACE, REFER TO SHEET M1.1 TO COORDINATE WITH DUCTWORK, GRADE WASTE LINE AT 1/4" SLOPE PER FOOT, (RUN THRU JOIST SPACE AS MUCH AS POSSIBLE.) DROP PIPING DOWN IN WALL TO BELOW FLOOR. REFER TO PLUMBING FOUNDATION PLAN ON SHEET P1.0 FOR CONTINUATION.

GAS METER PROVIDED AND INSTALLED BY LOCAL GAS COMPANY. METER TO BE SIZED FOR 1,750,000 BTU WITH 2 PSI DISCHARGE PRESSURE. SEE GAS LOAD CALCULATIONS ON SHEET P1.3.

RISE 1-1/4" GAS LINE (2 PSI) UP IN CORNER. SEE ROOF PLAN ON SHEET P1.3 FOR CONTINUATION OF PIPING. SECURE TO WALL WITH UNISTRUT PIPE SUPPORTS.

RISE 1 1/4" COLD WATER, 3/4" HOT WATER, AND 3/4" HOT WATER RECIRC LINE UP IN DEIONIZED WATER ROOM ABOVE. CONNECT TO WATER HEATER AND TO REDUCED PRESSURE BACK-FLOW PREVENTION DEVICE. REFER TO LARGE SCALE PLAN 7/P2.1 FOR CONTINUATION OF PIPING AND EQUIPMENT LOCATIONS

RISE 1/2" DI WATER & 1/2" HW LINES UP THRU FLOOR AND CONNECT TO FIXTURE ABOVE. COORDINATE WATER PIPING WITH WASTE AND VENT LINES IN AREA.

RISE 3" VENT UP IN WALL ABOVE. REFER TO SHEET P1.2 FOR CONTINUATION.

DROP 4" WASTE LINE DOWN IN CHASE. REFER TO LARGE SCALE PLAN 1/P2.1 FOR RISE 1" VACUM LINE UP THRU FLOOR ABOVE AND CONNECT TO VACUUM PUMP.

REFER TO LARGE SCALE PLAN 7/P2.1 FOR CONTINUATION. RISE 3/4" VACUM LINE UP THRU FLOOR ABOVE AND CONNECT TO TURRET

VALVES ABOVE. SEE SHEET P1.2 FOR CONTINUATION. RISE 3/4" DE-IONIZED WATER LINE UP THRU FLOOR ABOVE AND CONNECT TO DE-IONIZED WATER SYSTEM. REFER TO LARGE SCALE PLAN 7/P2.1 FOR

CONTINUATION.

RISE 1/2" DE-IONIZED WATER LINE UP IN WALL ABOVE AND CONNECT TO HOSE BIBB AS SPECIFIED. REFER TO DETAIL B/P1.2 FOR TYPICAL INSTALLATION.

RISE (4) 1/2" COLD WATER LINES UP THRU FLOOR ABOVE AND CONNECT TO TRAP PRIMER MANIFOLD ABOVE. REFER TO DETAIL J/P3.1 FOR TYPICAL

RUN 1/2" COLD WATER LINE FROM TRAP PRIMER MANIFOLD TO FLOOR DRAIN. REFER TO DETAIL J/P3.1 FOR TYPICAL INSTALLATION.

PROVIDE SHUT-OFF VALVE ABOVE ACCESSIBLE CEILING 3/4" COLD WATER LINE. DROP 3/4" WATER LINE DOWN IN WALL TO EXTERNAL HOSE BIBB. REFER TO → DETAIL B/P3.1 FOR TYPICAL INSTALLATION OF HOSE BIBB.

ENTIRE BUILDING TO BE FIRE SPRINKLED TO MEET NFP.13 CODE REQUIREMENTS. FIELD VERIFY LOCATIONS OF OTHER PIPING, DUCTWORK, ELECTRICAL CONDUITS AND BUILDING STRUCTURE. COORDINATE FIRE SPRINKLER HEADS AND PIPING WITH ALL OTHER TRADES. FIRE PIPING TO GO AROUND ALL MECHANICAL DUCTWORK, GRILLES, ANY SKYLIGHTS, ROOF

T.F. AI A NE

FLOOR

Architectur aughlin

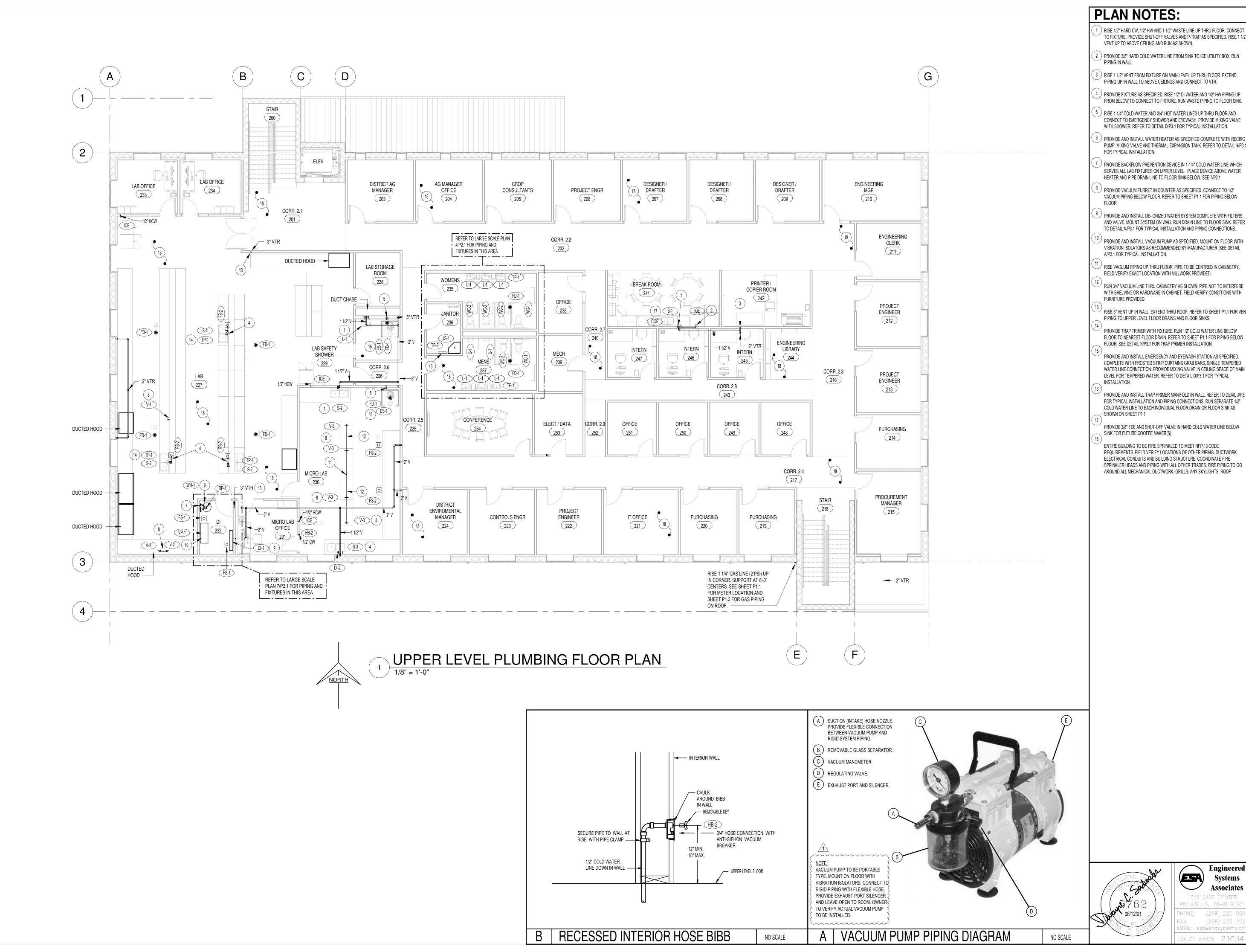
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RISE 1/2" HARD CW, 1/2" HW AND 1 1/2" WASTE LINE UP THRU FLOOR. CONNECT TO FIXTURE. PROVIDE SHUT-OFF VALVES AND P-TRAP AS SPECIFIED. RISE 1 1/2" VENT UP TO ABOVE CEILING AND RUN AS SHOWN.

PROVIDE 3/8" HARD COLD WATER LINE FROM SINK TO ICE UTILITY BOX. RUN

RISE 1 1/2" VENT FROM FIXTURE ON MAIN LEVEL UP THRU FLOOR. EXTEND

PROVIDE FIXTURE AS SPECIFIED. RISE 1/2" DI WATER AND 1/2" HW PIPING UP FROM BELOW TO CONNECT TO FIXTURE. RUN WASTE PIPING TO FLOOR SINK.

RISE 1 1/4" COLD WATER AND 3/4" HOT WATER LINES UP THRU FLOOR AND CONNECT TO EMERGENCY SHOWER AND EYEWASH. PROVIDE MIXING VALVE WITH SHOWER. REFER TO DETAIL D/P3.1 FOR TYPICAL INSTALLATION.

PUMP, MIXING VALVE AND THERMAL EXPANSION TANK. REFER TO DETAIL H/P3.1 FOR TYPICAL INSTALLATION.

PROVIDE BACKFLOW PREVENTION DEVICE IN 1-1/4" COLD WATER LINE WHICH SERVES ALL LAB FIXTURES ON UPPER LEVEL. PLACE DEVICE ABOVE WATER HEATER AND PIPE DRAIN LINE TO FLOOR SINK BELOW. SEE 7/P2.1

 $\mathcal PROVIDE$  vacuum turret in counter as specified. Connect to 1/2" VACUUM PIPING BELOW FLOOR. REFER TO SHEET P1.1 FOR PIPING BELOW

AND VALVE. MOUNT SYSTEM ON WALL RUN DRAIN LINE TO FLOOR SINK. REFER TO DETAIL N/P3.1 FOR TYPICAL INSTALLATION AND PIPING CONNECTIONS.

VIBRATION ISOLATORS AS RECOMMENDED BY MANUFACTURER. SEE DETAIL A/P2.1 FOR TYPICAL INSTALLATION.  $^{\!\!\!/}$  rise vacuum piping up thru floor. Pipe to be centred in Cabinetry.

RUN 3/4" VACUUM LINE THRU CABINETRY AS SHOWN. PIPE NOT TO INTERFERE WITH SHELVING OR HARDWARE IN CABINET. FIELD VERIFY CONDITIONS WITH

RISE 3" VENT UP IN WALL. EXTEND THRU ROOF. REFER TO SHEET P1.1 FOR VENT PIPING TO UPPER LEVEL FLOOR DRAINS AND FLOOR SINKS.

PROVIDE TRAP TRIMER WITH FIXTURE. RUN 1/2" COLD WATER LINE BELOW FLOOR TO NEAREST FLOOR DRAIN. REFER TO SHEET P1.1 FOR PIPING BELOW FLOOR. SEE DETAIL K/P3.1 FOR TRAP PRIMER INSTALLATION.

PROVIDE AND INSTALL EMERGENCY AND EYEWASH STATION AS SPECIFIED. COMPLETE WITH FROSTED STRIP CURTAINS GRAB BARS, SINGLE TEMPERED WATER LINE CONNECTION. PROVIDE MIXING VALVE IN CEILING SPACE OF MAIN LEVEL FOR TEMPERED WATER. REFER TO DETAIL D/P3.1 FOR TYPICAL

PROVIDE AND INSTALL TRAP PRIMER MANIFOLD IN WALL. REFER TO DEAIL J/P3.1 FOR TYPICAL INSTALLATION AND PIPING CONNECTIONS. RUN SEPARATE 1/2" COLD WATER LINE TO EACH INDIVIDUAL FLOOR DRAIN OR FLOOR SINK AS SHOWN ON SHEET P1.1

PROVIDE 3/8" TEE AND SHUT-OFF VALVE IN HARD COLD WATER LINE BELOW SINK FOR FUTURE COOFFE MAKER(S)

ENTIRE BUILDING TO BE FIRE SPRINKLED TO MEET NFP.13 CODE REQUIREMENTS. FIELD VERIFY LOCATIONS OF OTHER PIPING, DUCTWORK, ELECTRICAL CONDUITS AND BUILDING STRUCTURE. COORDINATE FIRE SPRINKLER HEADS AND PIPING WITH ALL OTHER TRADES. FIRE PIPING TO GO AROUND ALL MECHANICAL DUCTWORK, GRILLS, ANY SKYLIGHTS, ROOF

FALLS, ID 83301 PLUMBING FLOOR PL A NEW

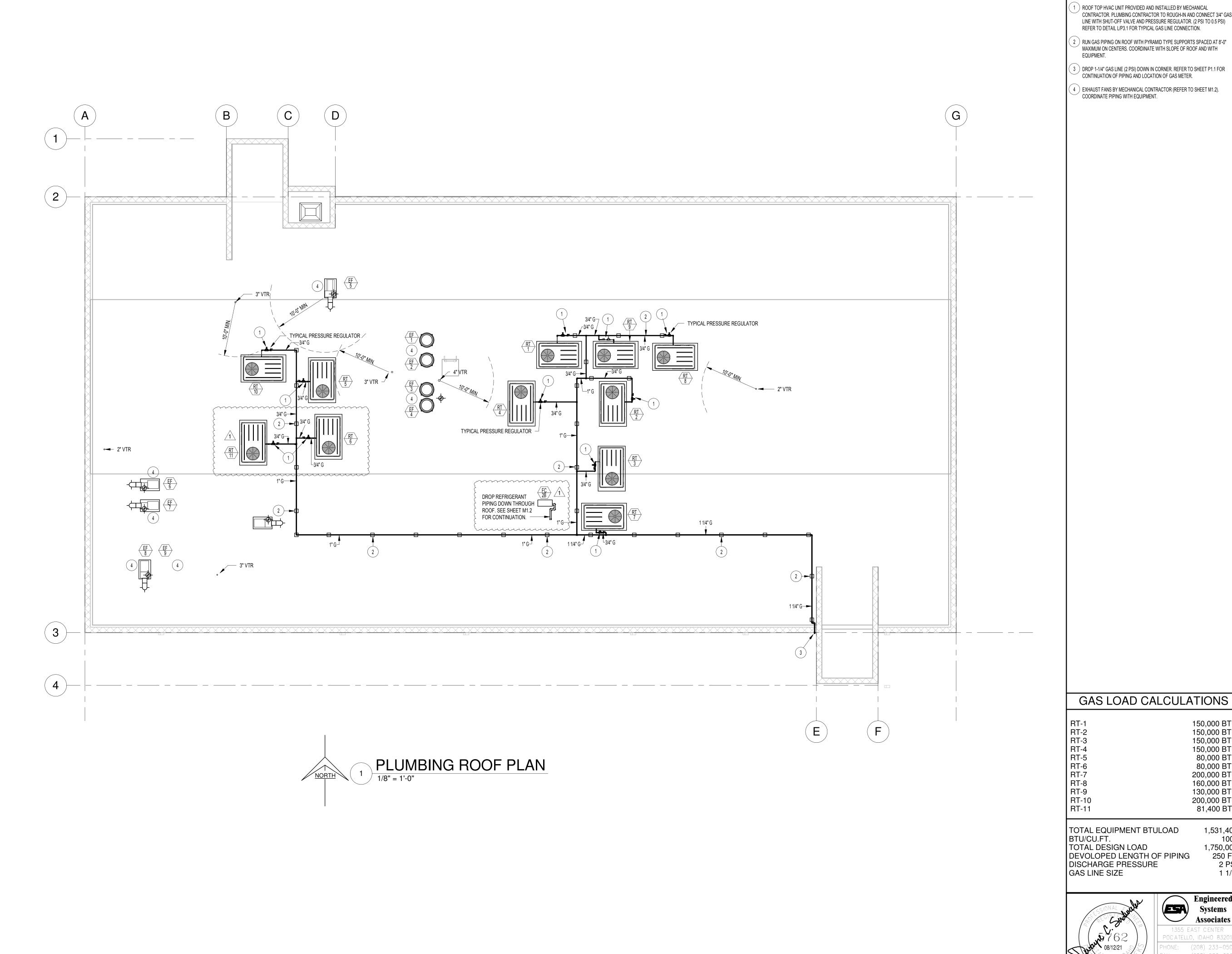
> Architecture architecture/planning hoshone Street North \* Twin Falls, Idaho (208) 736-8050 Fax: (208) 733-0950 aughlin Ricks

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- ROOF TOP HVAC UNIT PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT 3/4" GAS LINE WITH SHUT-OFF VALVE AND PRESSURE REGULATOR. (2 PSI TO 0.5 PSI) REFER TO DETAIL L/P3.1 FOR TYPICAL GAS LINE CONNECTION.
- RUN GAS PIPING ON ROOF WITH PYRAMID TYPE SUPPORTS SPACED AT 8'-0"
  MAXIMUM ON CENTERS. COORDINATE WITH SLOPE OF ROOF AND WITH
- DROP 1-1/4" GAS LINE (2 PSI) DOWN IN CORNER. REFER TO SHEET P1.1 FOR CONTINUATION OF PIPING AND LOCATION OF GAS METER.
- 4 ) EXHAUST FANS BY MECHANICAL CONTRACTOR (REFER TO SHEET M1.2). COORDINATE PIPING WITH EQUIPMENT.

	1 PLBG AND MECH CHANGES		
	09-20-2021		

A NEW FACILITY FOR:

T.F. AMALGAMATED SU

2320 ORCHARD DR. E., TWIN FALLS, ID 83301

PLUMBING ROOF PLAN

150,000 BTU 150,000 BTU 150,000 BTU 150,000 BTU 80,000 BTU 80,000 BTU 200,000 BTU 160,000 BTU 130,000 BTU 200,000 BTU 200,000 BTU 81,400 BTU Laughlin ] 1,531,400 1000 1,750,000 250 FT.

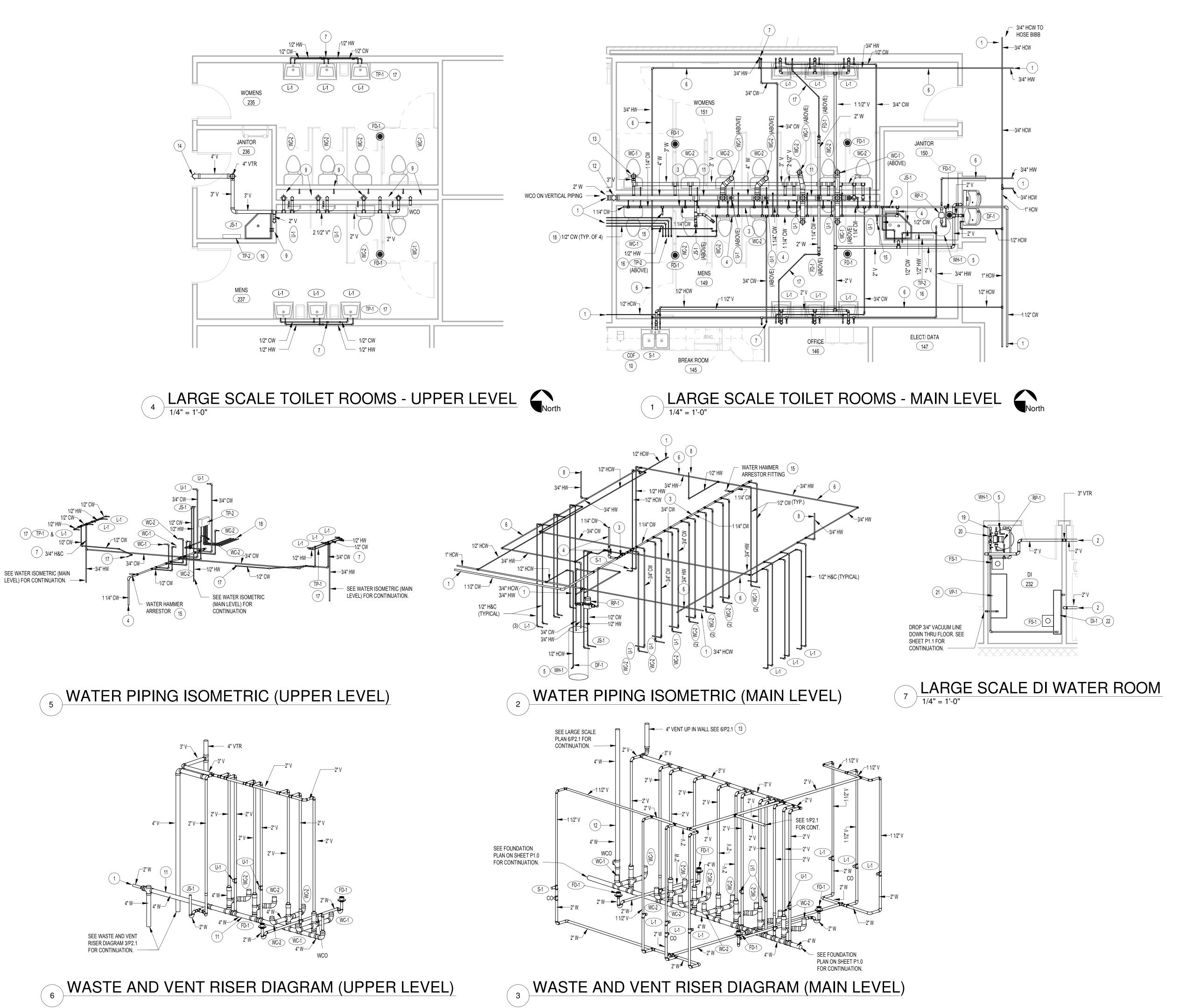


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REFER TO SHEET P1.1 FOR CONTINUATION OF PIPING ON MAIN LEVEL.

REFER TO SHEET P1.2 FOR CONTINUATION OF PIPING ON UPPER LEVEL.

PROVIDE SHUT-OFF VALVE IN 1-1/2" COLD LINE SERVING MAIN LEVEL FIXTURES VALVE TO BE LOCATED IN ACCESSIBLE LOCATION AND LABELED AS MAIN LEVEL COLD WATER SHUT-OFF VALVE. RUN WATER PIPING FOR MAIN LEVEL FIXTURES AT 4" TO 6" ABOVE CEILING. DROP INDIVIDUAL LINES DOWN IN WALL TO CONNECT TO FIXTURES. SUPPORT PIPING FROM UPPER LEVEL FLOOR

PROVIDE SHUT-OFF VALVE IN 1-1/4" COLD LINE SERVING UPPER LEVEL FIXTURES. VALVE TO BE LOCATED IN ACCESSIBLE LOCATION AND LABELED AS UPPER LEVEL COLD WATER SHUT-OFF VALVE. RISE WATER PIPING FOR UPPER LEVEL UP AND RUN AT 4" TO 6" BELOW UPPER LEVEL FLOOR. RISE INDIVIDUAL LINES UP IN WALL ABOVE TO CONNECT TO FIXTURES. SUPPORT PIPING FROM UPPER LEVEL FLOOR STRUCTURE.

PROVIDE AND INSTALL ELECTRIC WATER HEATER AS SPECIFIED. WATER HEATER TO BE COMPLERE WITH HEAT TRAP NIPPLES, EXPANSION TANK, RECIRC PUMP, AND MIXING VALVE. REFER TO DETAIL H/P3.1 FOR TYPICAL WATER HEATER PIPING CONNECTIONS.

angle hot water piping to be run at 4" to 6" above main level ceiling. Route PIPING AS SHOWN TO PROVIDE CONTINUOUS FLOW BACK TO WATER HEATER AND RECIRC PUMP. RISE PIPING UP FOR UPPER LEVEL FIXTURES AND DROP DOWN IN WALL FOR MAIN LEVEL FIXTURES AS REQUIRED.

 $^{
m /}$  RISE 3/4" HOT AND COLD WATER LINES UP IN WALL ABOVE AND CONNECT TO (3 LAVATORIES ON UPPER LEVEL.

ISOMETRIC (UPPER LEVEL) FOR CONTINUATION.

RAISE WASTE AND WATER PIPING UP THRU FLOOR AND CONNECT TO FIXTURE. RISE VENT PIPING UP IN CHASE TO ABOVE UPPER LEVEL CEILING.

PROVIDE 3/8" "HARD" COLD WATER TAP WITH SHUT-OFF VALVE BELOW

COUNTER FROM ADJACENT SINK FOR FUTURE COFFEE MAKER CONNECTION.

WASTE PIPING FROM UPPER LEVEL FIXTURES TO BE RUN AT 6" TO 8" BELOW UPPER LEVEL FLOOR. KEEP PIPING AS HIGH AS POSSIBLE. SLOPE PIPING AT 1/4" PER FLOOR IN DIRECTION OF FLOW AND COORDINATE WITH OTHER PIPING AND

DROP 4" WASTE LINE DOWN IN WALL TO BE BELOW MAIN LEVEL FLOOR. REFER TO PLUMBING FOUNDATION PLAN ON SHEET P1.0 FOR CONTINUATION.

RISE 4" VENT UP IN WALL ABOVE. REFER TO LARGE SCALE TOILET ROOMS (UPPER LEVEL) ON THIS SHEET FOR CONTINUATION.

4" VENT UP IN WALL FROM MAIN LEVEL FIXTURES. REFER TO LARGE SCALE TOILET ROOMS (MAIN LEVEL) FOR CONTINUATION OF PIPING BELOW. CONNECT TO 4" VERTICAL VENT ABOVE UPPER LEVEL CEILING. COORDINATE VTR WITH EXHAUST FANS MOUNTED ON ROOF. (REFER TO SHEET M1.2.)

PROVIDE WATER HAMMER ARRESTOR ON COLD WATER LINE. SEE

PROVIDE AND INSTALL TRAP PRIMER MANIFOLD IN WALL. REFER TO DETAIL J/P3.1 FOR TYPICAL INSTALLATION AND PIPING CONNECTIONS. RUN SEPARATE 1/2" COLD WATER LINE TO EACH INDIVIDUAL FLOOR DRAIN. SEE PLUMBING FOUNDATION PLAN (SHEET P1.0) FOR PIPING BELOW MAIN LEVEL FLOOR.

PROVIDE AND INSTALL TRAP PRIMER BELOW LAVATORY. RUN 1/2" COLD WATER LINE BELOW FLOOR TO FLOOR DRAIN AS SHOWN. REFER TO DETAIL K/P3.1 TYPICAL INSTALLATION.

RUN (4) 1/2" COLD WATER LINES FROM TRAP PRIMVER ON UPPER LEVEL TO (2) FLOOR DRAINS AND (2) FLOOR SINKS IN MICRO LAB AREA. PIPING TO BE RUN IN CEILING SPACE OF MAIN LEVEL. REFER TO SHEET P1.1 FOR ROUTING OF WATER LINES AND TO DETAIL J/P3.1 FOR TYPICAL LINE CONNECTION TO FLOOR DRAIN OR FLOOR SINK.

IN DEIONIZED WATER ROOM ABOVE. CONNECT TO WATER HEATER AND TO

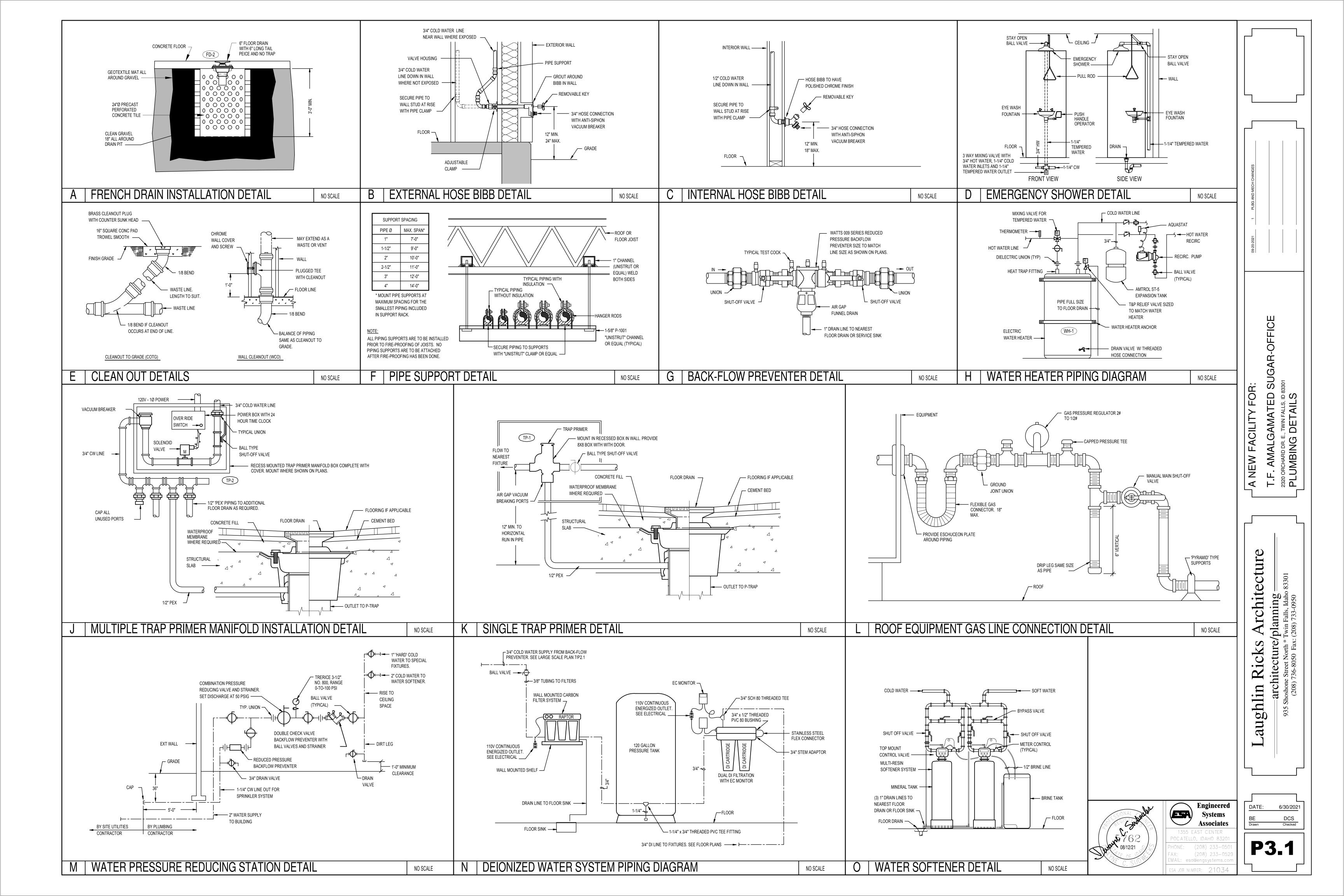
PROVIDE BACKFLOW PREVENTION DEVICE IN 1-1/4" COLD WATER LINE WHICH

PROVIDE AND INSTALL DE-IONIZED WATER SYSTEM COMPLETE WITH FILTERS AND VALVE. MOUNT SYSTEM ON WALL RUN DRAIN LINE TO FLOOR SINK. REFER -OFFICE

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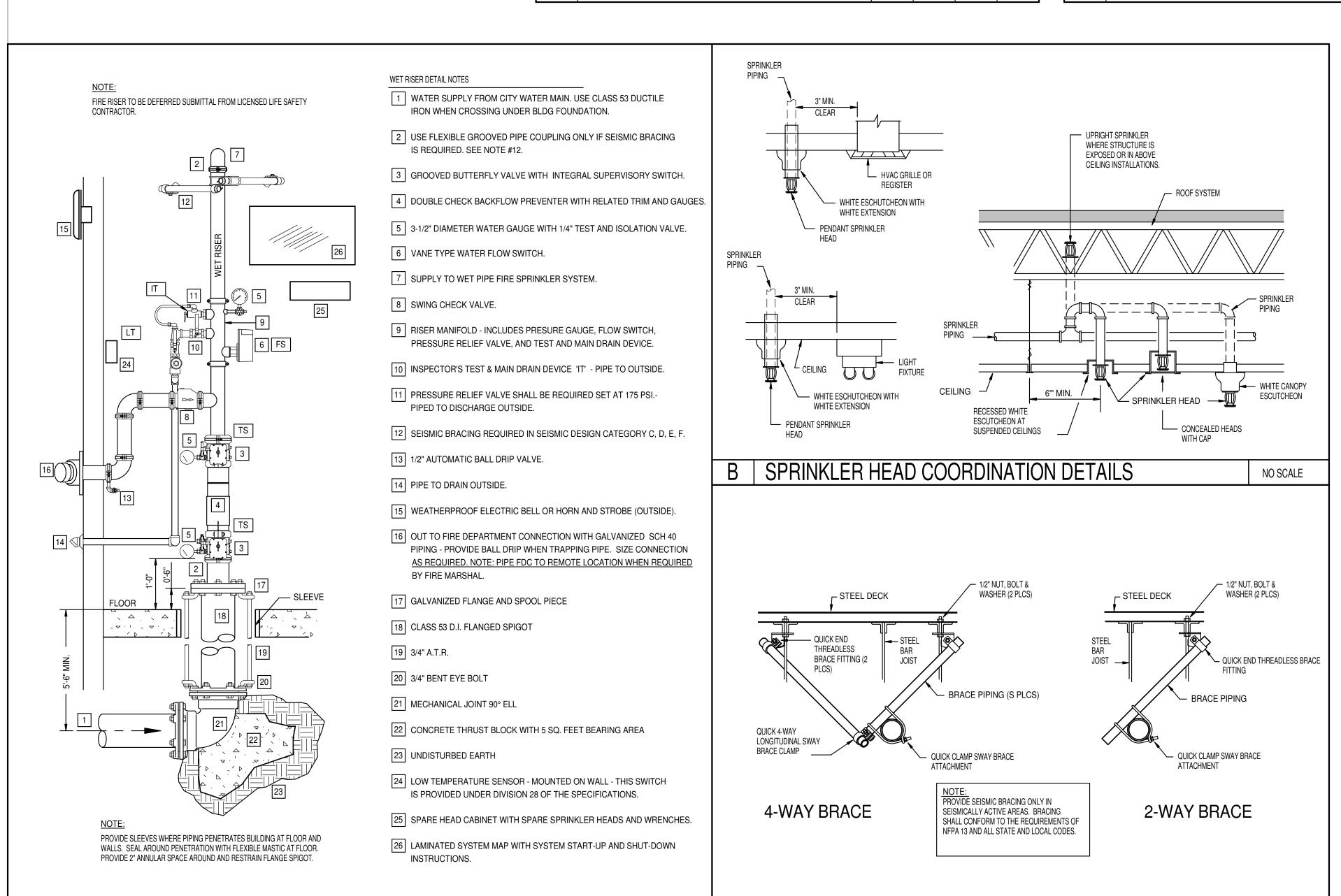
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	FIXTURE SCHEDULE										
SYM.	DESCRIPTION	НОТ	COLD	WASTE	VENT						
V-3	DOUBLE DECK MOUNTED VACUUM VALVE - KEWAUNEE W-0263-OO WITH 2-WAY 180 DEGREE OUTLET TURRET AND (2) BALL VALVES. MOUNT IN COUNTER DECK AND CONNECT TO 1/2" VACUUM LINE WITH SHUT-OFF VALVE BELOW COUNTER.										
VP-1	VACUUM PUMP - SIMILAR TO WELCH WOB-L 2561B-50 PISTON PUMP WITH TRAP AND GAUGE 1/3 HP MOTOR (12/60/1) AND POWER CORD. 1/4" INLET AND EXHAUST CONNECTIONS AND 2.3 CFM FLOW. OWNER TO VERIFY EXACT MODEL PROVIDED.										
WC-1	ADA WALL MOUNTED WATER CLOSET - KOHLER K-4325-SS-0 "KINGSTON" WITH ELONGATED BOWL, K-4670C OPEN FRONT SEAT, SLOAN ROYAL 111-1.6 FLUSH VALVE WITH SLOAN EBV-89-M SIDE MOUNT OPERATOR, AND WALL CARRIER. MOUNT AT ADA HEIGHT.		1"	4"	2"						
WC-2	WALL MOUNTED WATER CLOSET - KOHLER K-4325-SS-0 "KINGSTON" WITH ELONGATED BOWL, K-4670C OPEN FRONT SEAT, SLOAN ROYAL 111-1.6 FLUSH VALVE WITH SLOAN EBV-89-M SIDE MOUNT OPERATOR, AND WALL CARRIER.		1"	4"	2"						
WH-1	50 GALLON ELECTRIC WATER HEATER - A.O.SMITH MODEL PNT-50 WITH 50 GALLON CAPACITY, (2) 4.5 KW - NON-SIMULTANEOUS - ELEMENTS, (208/60/1), 3/4" SUPPLIES AND T&P RELIEF VALVE, THERMAL EXPANSION TANK, HEAT TRAP NIPPLES AND SYMMONS 7-200 MIXING VALVE. PROVIDE 10 YEAR WARRANTY. REFER TO DETAIL H/P3.1 FOR TYPICAL PIPING CONNECTIONS.	3/4"	3/4"								
WS-1)	DUPLEX WATER SOFTENER - DOMINATOR 920 SERIES, MODEL TP210 WITH 210,000 GRAIN CAPACITY, 1-1/2" METERED VALVE, BY-PASS VALVES, SYSTEM CONTROLLER WITH POWER CORD, SINGLE BRINE TANK, 43 GPM CONTINUOUS FLOW AND 55 GPM PEAK FLOW. (120/60/1) RUN 1" DRAIN LINE TO FLOOR SINK.		1-1/4"	1"							

	FIXTURE SCHEDUL	E			
SYM.	DESCRIPTION	НОТ	COLD	WASTE	VENT
<u>S-3</u>	DOUBLE COMPARTMENT LAB SINK - ELKAY MODEL ELUH311810DBG STAINLESS STEEL UNDERMOUNT SINK WITH KEWAUNEE MODEL W-0340-0V DECK MOUNTED FAUCET WITH 8" SPREAD RIGID GOOSENECK WITH VACUUM BREAKER, REMOVABLE STRAIGHT SERRATED HOSE CONNECTOR, DISC TYPE VALVE, AND 1/2" HOT AND COLD WATER CONNECTIONS WITH SHUT-OFF VALVES BELOW COUNTER. (COORDINATE FAUCET WITH ADDITIONAL DI-2 FAUCET.)	1/2"	1/2"	1-1/2"	1-1/2"
TP-1	SINGLE TRAP PRIMER - ZURN Z-1020XL IN-LINE TRAP PRIMER. MOUNT RECESSED IN WALL BELOW SINK WHERE SHOWN ON PLANS AND PROVIDE LOCKING COVER. RUN 1/2" COLD WATER LINE TO EACH TRAP AS SHOWN ON FLOOR PLANS. REFER TO DETAIL K/P3.1 FOR TYPICAL INSTALLATION.		1/2"		
TP-2	MULTIPLE TRAP PRIMER - ZURN Z-1020XL-5 TRAP PRIMER SYSTEM. MOUNT RECESSED IN WALL WITH COVER. RUN 1/2" COLD WATER LINE TO EACH TRAP AS SHOWN ON FLOOR PLANS. REFER TO DETAIL M/P301 FOR INSTALLATION.		3/4"		
U-1	URINAL - KOHLER MODEL 4984-T "FRESHMAN" WITH SLOAN ROYAL 111-1.6 FLUSH VALVE WITH SLOAN EBV-89-M SIDE MOUNT OPERATOR, AND WALL CARRIER. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.		3/4"		
V-1	SINGLE DECK MOUNTED VACUUM VALVE - KEWAUNEE W-0260-OO WITH SINGLE TURRET OUTLET AND BALL VALVE. MOUNT IN COUNTER DECK AND CONNECT TO 1/2" VACUUM LINE WITH SHUT-OFF VALVE BELOW COUNTER.				
V-2	DOUBLE DECK MOUNTED VACUUM VALVE - KEWAUNEE W-0263-OO WITH 2-WAY 90 DEGREE OUTLET TURRET AND (2) BALL VALVES. MOUNT IN COUNTER DECK AND CONNECT TO 1/2" VACUUM LINE WITH SHUT-OFF VALVE BELOW COUNTER.				

NO SCALE



NO SCALE

C | SEISMIC BRACING DETAILS

VERTICAL FIRE RISER DETAIL

	FIXTURE SCHEDUL	Ē.			
SYM		HOT	COLD	WASTE	VENT
COF	COFFEE MAKER - PROVIDE 3/8" SHUT-OFF VALVE ON ADJACENT SINK COLD WATER LINE. CONNECT TO COFFEE MAKER AS PER MANUFACTURER'S RECOMMENDATIONS. CONNECT DRAIN LINE TO ADJACENT SINK WITH DISHWASHER TYPE FITTING.		1/2" (HARD)		
DF-1	BI-LEVEL DRINKING FOUNTAIN - ELKAY MODEL LZSTL8WSLP AND EZH20 BOTTLE FILLER STATION COMPLETE WITH HANDS FREE FILL VALVE, 1/2" STOP, 1-1/2" P-TRAP, AND FLEX-GUARD SAFETY BUBBLER. (120/60/1)		1/2" (HARD)	1-1/2"	1-1/2"
DI-1	DIONIZED WATER FILTER STATION - US WATER RAPTOR RO DI 70 LPH LAB SYSTEM WATER TREATMENT SYSTEM COMPLETE WITH WALL MOUNTED INITIAL CARBON FILTERS, WALL MOUNTED DUAL DI FILTRATION WITH EC MONITOR, 120 GALLON PRESSURE TANK. REFER TO PIPING DIAGRAM N/P3.1 FOR TYPICAL CONNECTIONS.		3/4"		
DI-2	DIONIZED WATER WATER FAUCET - KEWAUNEE MODEL W-0337-00 DECK MOUNTED FAUCET WITH 8" SPREAD RIGID GOOSENECK, REMOVABLE STRAIGHT SERRATED HOSE CONNECTOR, DISC TYPE VALVE, AND 1/2" DI WATER CONNECTION WITH SHUT-OFF VALVE BELOW COUNTER. COORDINATE FAUCET LOCATION WITH OTHER FAUCETS SPECIFIED WITH ADJACENT SINK WHERE APPLICABLE.		1/2" DI WATER		
ES-1	EMERGENCY SHOWER AND EYEWASH - HEMCO HMC-16601 WITH SELF-CLOSING VALVE, 1-1/4" CW AND 1/2" HW SUPPLIES, AND PULL ROD, EYE WASH BASIN WITH STAY-OPEN VALVE AND TEMPERING VALVE. REFER TO DETAIL C/P301 FOR TYPICAL INSTALLATION.	1/2"	1-1/4"		
FD-1	2" FLOOR DRAIN - ZURN Z-415-N WITH 5" Dia. NICKEL-BRONZE STRAINER AND 2" DEEP SEAL P-TRAP. RUN 1/2" COLD WATER LINE TO TRAP PRIMER. REFER TO DETAIL K/P3.1 FOR TYPICAL INSTALLATION.		1/2"	2"	2"
FD-2	6" FLOOR DRAIN - ZURN Z-415-N WITH 6" Dia. NICKEL-BRONZE STRAINER AND 4" TAIL PIECE DOWN TO FRENCH DRAIN RECEIVING TANK. REFER TO DETAIL A/P3.1 FOR TYPICAL INSTALLATION OF FRENCH DRAIN.			4"	
FS-1	2" FLOOR SINK - ZURN Z-1900-2 WITH HALF GRATE, WHITE ENAMEL FINISH, DOME STRAINER AND 2" P-TRAP.			2"	2"
FS-2	2" FLOOR SINK - ZURN Z-1900-3 WITH THREE-QUARTER GRATE, WHITE ENAMEL FINISH, DOME STRAINER AND 2" P-TRAP.			2"	2"
FS-3	4" FLOOR SINK - ZURN Z-1900-2 WITH THREE-QUARTER GRATE, WHITE ENAMEL FINISH, DOME STRAINER AND 4" P-TRAP.			4"	2"
HB-1	EXTERIOR HOSE BIBB - ZURN Z-1310 'ECOLOTROL' WITH VACUUM BREAKER AND REMOVABLE CHROME TEE HANDLE. LENGTH TO SUIT WALL THICKNESS.		3/4" (HARD)		
HB-2	RECESSED INTERIOR HOSE BIBB - ZURN MODEL ZA-1335 WALL HYDRANT WITH RECESSED BOX WITH LOCKING COVER, REMOVABLE TEE HANDLE AND VACUUM BREAKER. REFER TO DETAIL B/P1.2 FOR TYPICAL INSTALLATION.		1/2"		
ICE	ICE MAKER SHUT-OFF VALVE - GUY GREY MODEL BIM875 WITH 1/2" COLD WATER CONNECTION AND SHUT-OFF VALVE. MOUNT RECESSED IN WALL NEAR FLOW. RUN 3/8" LINE THRU WALL TO ADJACENT SINK WHERE INDICATED ON PLANS.		1/2" (HARD)		
JS-1	FLOOR MOUNTED SERVICE SINK - KOHLER K-6710 "WHITBY" WITH K-8940 WIRE RIM GUARD, K-9142 PERFORATED STRAINER AND 2" DEEP SEAL P-TRAP; MOUNT T&S B-0674-BSTP FAUCET ON WALL COMPLETE WITH VACUUM BREAKER, AND PAIL HOOK. PROVIDE 5'-0" RUBBER HOSE AND WALL CLIP.	1/2"	1/2"	2"	2"
(L-1)	WALL MOUNTED LAVATORY - KOHLER K-2032 "GREENWICH" WITH K-7715 GRID STRAINER, K-15992-R LEVER HANDLE FAUCET, WALL CARRIER, 1-1/2" P-TRAP AND 1/2" STOPS. PROVIDE INSULATING JACKET ON WASTE AND HOT WATER LINE.	1/2"	1/2"	1-1/2"	1-1/2"
RP-1	DOMESTIC RECIRC. PUMP - B&G SERIES LR-20BF 'LITTLE RED' WITH 4 GPM FLOW AT 8' HEAD AND 3/4" LINE CONNECTIONS. MOUNT NEAR WATER HEATER. REFER TO DETAIL H/P3.1 FOR TYPICAL PIPE CONNECTIONS.	3/4"			
<u>\$-1</u>	DOUBLE COMPARTMENT SINK - ELKAY MODEL LR-3319 STAINLESS STEEL SINK WITH MOEN 7200 SINGLE LEVER HANDLE, (2) LK-99 HEAVY DUTY STRAINER, AND 1/2" STOPS.	1/2"	1/2" (HARD)	1-1/2"	1-1/2"
<u>\$-2</u>	DOUBLE COMPARTMENT LAB SINK - ELKAY MODEL ELUH311810DBG STAINLESS STEEL UNDERMOUNT SINK WITH KEWAUNEE MODEL W-0337-00 DECK MOUNTED FAUCET WITH 8" SPREAD RIGID GOOSENECK, REMOVABLE STRAIGHT SERRATED HOSE CONNECTOR, DISC TYPE VALVE, AND 1/2" DI WATER CONNECTION WITH SHUT-OFF VALVE BELOW COUNTER.	1/2"	1/2" DI WATER	1-1/2" TO FLOOR SINK	



**Engineered Associates** 

**P3.2** 

AND DETAILS

A NEW FACILITY FOR:

T.F. AMALGAMATED SU

2320 ORCHARD DR. E., TWIN FALLS, ID 83301

PLBG FIXTURE SCHEDU

Architecture

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DATE: 6/30/2021

DCS

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