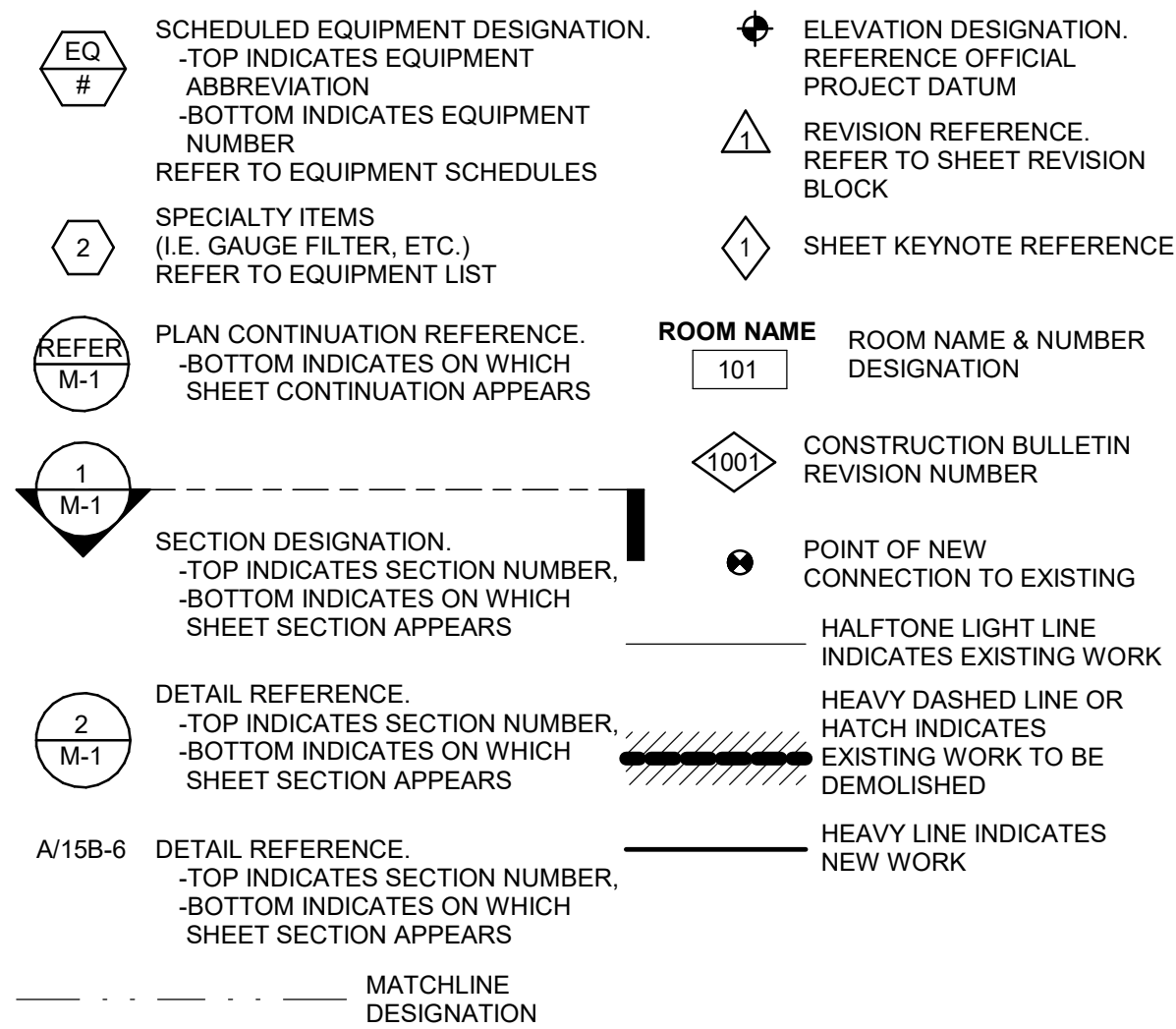
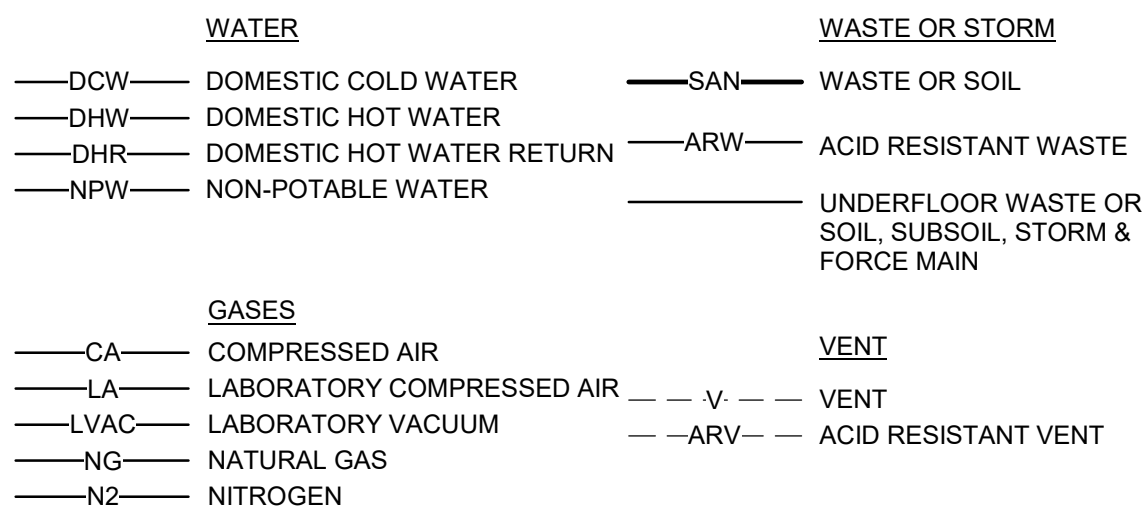


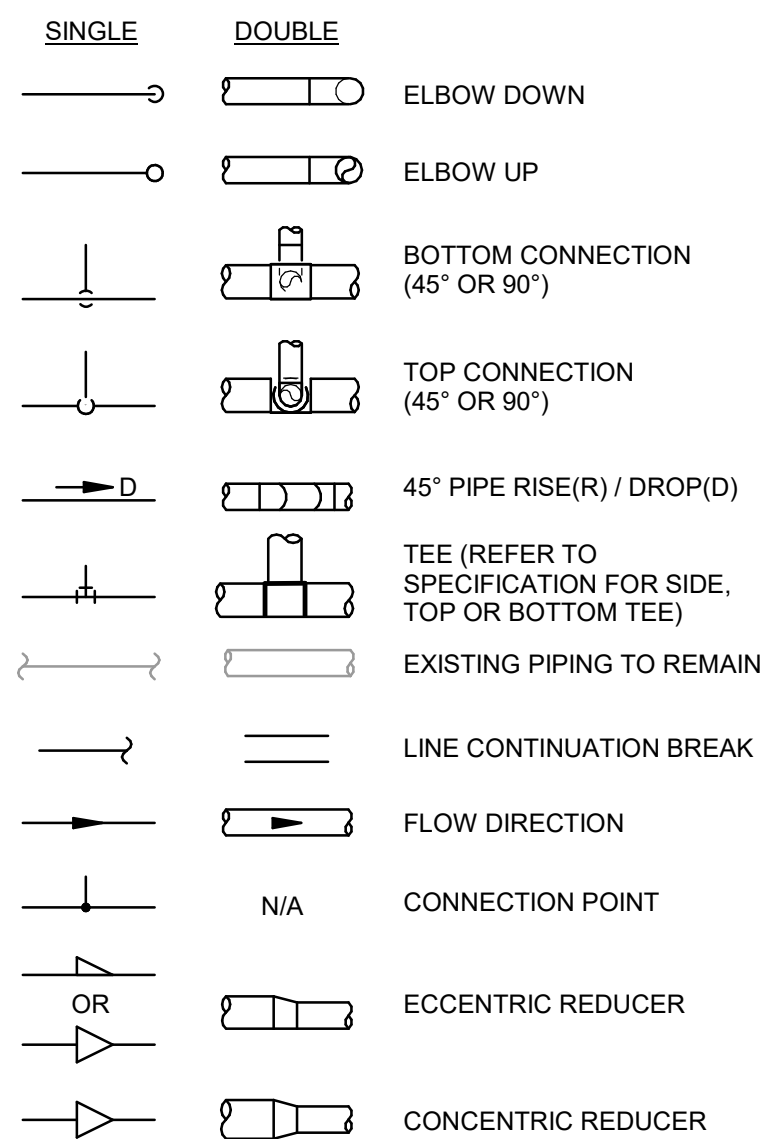
SHEET SYMBOLS



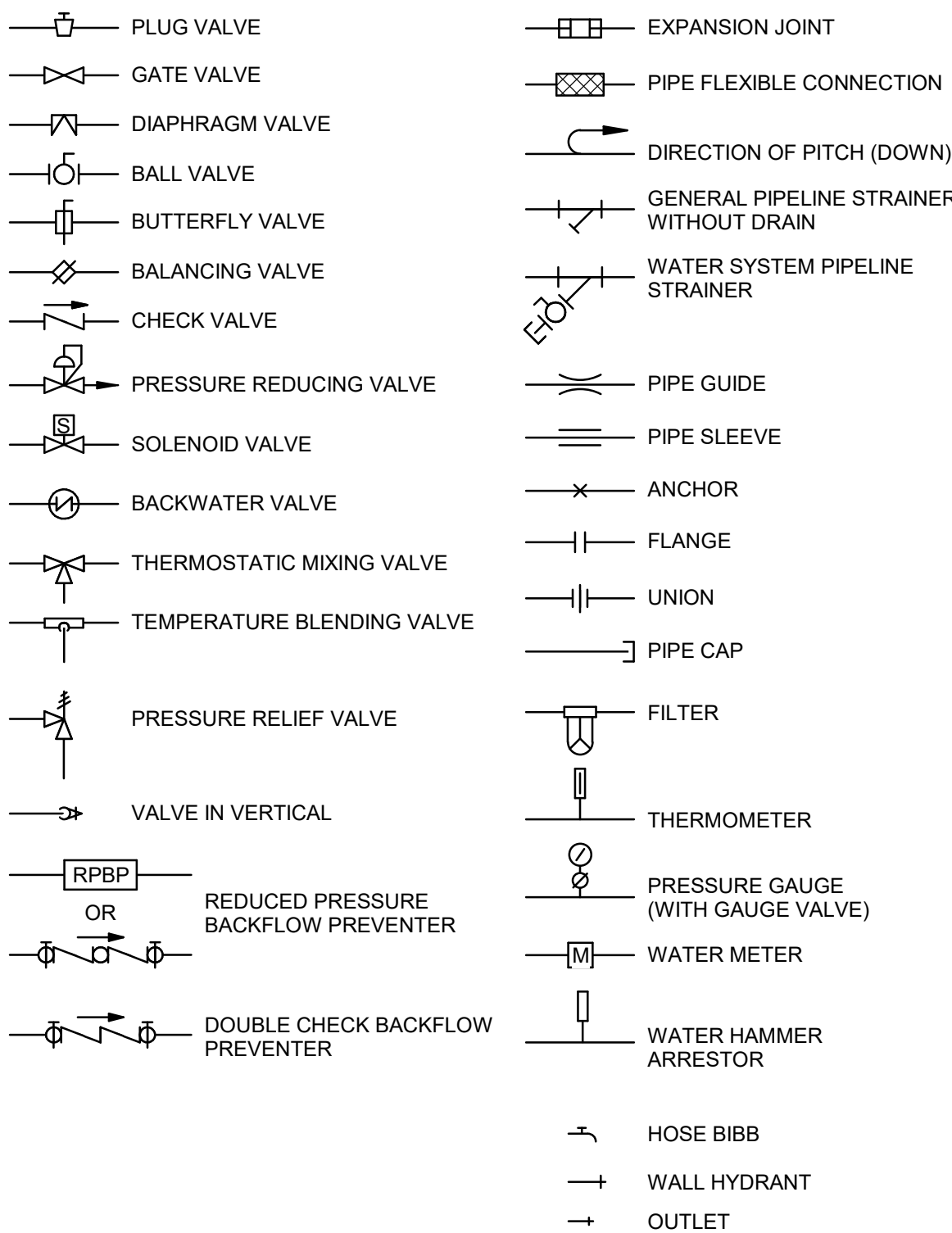
PIPING SYSTEM LABELS



PIPING SYMBOLS



PIPE FITTINGS, VALVES, & SPECIALTIES



DRAINS AND CLEANOUTS



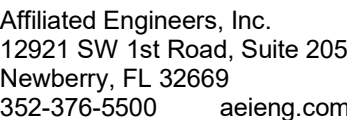
ABBREVIATIONS

-	AIR	L	LENGTH
AAP	AREA ALARM PANEL	LA	LABORATORY COMPRESSED AIR
ACC	ACCESS	LAV	LAVATORY
ACFM	ACTUAL CUBIC FEET PER MINUTE	LBS	POUNDS
ADB	ACID DILUTION BASIN	LCTS	LIGHTING
ADJ	ADJUSTABLE	LWT	LEAVING WATER TEMPERATURE
AFF	ABOVE FINISHED FLOOR		
ALT	ALTERNATE	MAP	MASTER ALARM PANEL
AMPS	AMPERES	MAX	MAXIMUM
AP	ACCESS PANEL	MB	MOP BASIN
APPROX	APPROXIMATE	MBH	ONE THOUSAND BTUH
ARCH	ARCHITECTURAL	MC	MECHANICAL CONTRACTOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MEZZ	MEZZANINE
ASSY	ASSEMBLY	MFR	MANUFACTURER
		NH	MANHOLE
		MIN	MINIMUM / MINUTE
		MISC	MISCELLANEOUS
BHP	BRAKE HORSEPOWER	MTD	MOUNTED
BLDG	BUILDING	MTG	MOUNTING
BOP	BOTTOM OF PIPE ELEVATION		
BOT	BOTTOM		
BT	BATHTUB	NC	NORMALLY CLOSED
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
BTUH	BRITISH THERMAL UNITS PER HOUR	NO	NUMBER
BTWN	BETWEEN	NOM	NOMINAL
		NPSH	NET POSITIVE SUCTION HEAD
		NPT	NATIONAL PIPE THREAD
		NTS	NOT TO SCALE
CA	COMPRESSED AIR		
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	OC	ON CENTER
CFM	CUBIC FEET PER MINUTE	OD	OUTSIDE DIAMETER / OVERFLOW DRAIN
CLG	CEILING	OCFI	OWNER FURNISHED CONTRACTOR INSTALLED
CM	COFFEE MAKER	OFOI	OWNER FURNISHED, OWNER INSTALLED
CMU	CONCRETE MASONRY UNIT		
CO	CLEANOUT	P	PUMP
CO2	CARBON DIOXIDE	P	PUMP
CONN	CONNECTION / CONNECT	PC	PLUMBING CONTRACTOR
CONTR	CONTRACTOR	PH	PHASE
CORR	CORRIDOR	PI	POSITIVE INDICATOR VALVE
CS	CLINICAL SINK / COLD SOFT WATER / CUP SINK	PLBG	PLUMBING
CTR	CENTER	PRESS	PRESSURE
CU	COPPER	PRV	PRESSURE REDUCING VALVE
CRVTR	CORROSIVE VENT THROUGH ROOF	PSF	POUNDS PER SQUARE FOOT
CWW	CLEARWATER WASTE	PSI	POUNDS PER SQUARE INCH
		PSIG	POUNDS PER SQUARE INCH GAUGE
D	DEPTH / DRAIN LINE	PW	PURE WATER
DOW	DOMESTIC COLD WATER		
DET	DETAIL	R	RADIUS
DFU	DRAINAGE FIXTURE UNIT	RAD	REFRIGERATED AIR DRYER
DHR	DOMESTIC HOT WATER RETURN	RD	ROOF DRAIN
DHW	DOMESTIC HOT WATER	REC	RECESSED
DIA	DIAMETER	RECP	RECEPTACLE
DIM	DIMENSION	REF	REFLECTURE
DISCH	DISCHARGE	REQD	REQUIRED
DN	DOWN / DOWNSPOUT NOZZLE	RI	ROUGH-IN
DS	DOWNSPOUT	RPM	REVOLUTIONS PER MINUTE
DW	DISHWASHER	RV	RELIEF VALVE
DWG	DRAWING		
EA	EACH	S	STORM
EEW	EMERGENCY EYEWASH	SAN	SANITARY
EFF	EFFICIENCY	SCH	SCHEDULE
EJ	EXPANSION JOINT	SCFM	STANDARD CUBIC FEET PER MINUTE
ELEC	ELECTRICAL	SD	SUBSOIL DRAIN
ELEV	ELEVATION	SF	SQUARE FEET
EQUIP	EQUIPMENT	SH	SHOWER
ET	EXPANSION TANK	SH	SHEET
ETR	EXISTING TO REMAIN	SPEC	SPECIFICATION
ES	EMERGENCY SHOWER	SQ	SQUARE
EW	ELECTRIC WATER COOLER	SR	SERVICE RECEPTOR
EWT	ENTERING WATER TEMPERATURE	S/S	STAINLESS STEEL
EXP	EXPANSION	STD	STANDARD
EXT	EXTERIOR	STRU	STRUCTURAL / STRUCTURE
		SUCT	SUCTION
°F	FAHRENHEIT		
FCO	FLOOR CLEANOUT	TD	TRENCH DRAIN
FD	FLOOR DRAIN	TDH	TOTAL DYNAMIC HEAD
FLA	FLOOR LOAD AMPERES	TEMP	TEMPERATURE
FLR	FLOOR	TMV	THERMOSTATIC MIXING VALVE
FM	FORCE MAIN	TOB	TOP OF BEAM
FP	FIREPROOF	TOD	TOP OF DECK
FPM	FEET PER MINUTE	TOJ	TOP OF JOIST
FS	FLOOR FINISH	TOS	TOP OF SLAB / TOP OF STEEL
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	TF	TRAP FILLER
FT	FEET	TP	TRAP PRIMER
FTHD	FEET HEAD	TYP	TYPICAL
FTG	FOOTING	U	URINAL
G	GAS	V	VENT / VOLTS
GAL	GAUGE	VAC	VACUUM
GALL	GALLON	VEL	VELOCITY
GALV	GALVANIZED	VFD	VARIABLE FREQUENCY DRIVE
GC	GENERAL CONTRACTOR	VOL	VOLUME
GPH	GALLONS PER HOUR	VTR	VENT THRU ROOF
GPM	GALLONS PER MINUTE		
		W	WASTE / WATER
HB	GASSE BIBB	W	WITH
HD	HUB DRAIN	W/O	WITHOUT
HP	HORSEPOWER	WAGD	WASTE ANESTHETIC GAS DISPOSAL
HR	HORSE REEL	WB	WALL BOX
HT	HEAT TRACE HOT WATER	WC	WATER CLOSET
HTR	HEATER	WCO	WALL CLEANOUT
HVAC	HEATING, VENTILATING, & AIR CONDITIONING	WGE	WASTE GAS EXHAUST
HZ	HERTZ	WH	WALL HYDRANT
		WHA	WATER HAMMER ARRESTOR
ID	INSIDE DIAMETER	WHTR	WATER HEATER
IE	INVERT ELEVATION	WSFU	WATER SUPPLY FIXTURE UNIT
IM	ICE MAKER		
IN	INCHES	X	EXISTING
IN WC	INCHES WATER COLUMN	YCO	YARD CLEANOUT
IW	INDIRECT WASTE		
		ZVB	ZONE VALVE BOX

[illegible]

1. EXISTING CONDITIONS ARE TAKEN FROM ORIGINAL AND AS-BUILT DRAWINGS AND ARE, IN PART, UNVERIFIED. VERIFY ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION AND INSTALLATION OF NEW WORK.
2. EXISTING BUILDING ELEMENTS AND DISTRIBUTION, INCLUDING BUT NOT LIMITED TO WALLS, CEILINGS, LIGHTS, CONDUIT, DUCTS, PIPING, INSULATION, OR OTHER SYSTEMS THAT ARE DAMAGED OR REMOVED DUE TO CONTRACTOR'S WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, THE OWNER, AND THE AUTHORITIES HAVING JURISDICTION.
3. COORDINATE SYSTEM SHUTDOWN WITH OWNER PRIOR TO PERFORMING WORK.

1. NEW LAB SINK.
2. PROVIDE AIR PURIFIER EQUIPMENT. REFER TO DETAIL 1/P9.1.
3. NEW COMPRESSED AIR HOSE REEL ATTACHED TO STRUCTURAL COLUMN OR BEAM. PROVIDE REELCRAFT RT635-OLP WITH 35 FT. HOSE AND UNIVERSAL SWING BRACKET.



ENGINEER-OF-RECORD
Kyle Weech FL P.E. No. 100329

[illegible]

Consultant:	Client: Florida State University 	PHASE: DESIGN DEVELOPMENT 10% CONSTRUCTION DOCUMENTS	DRAWN: JP	REVIEWED: KW	DATE: 05-06-2026
Project #:	19370.72				
Phase:	Design Development				
Job Title: Keen Building - Remodel Rooms for Research					

Seal:

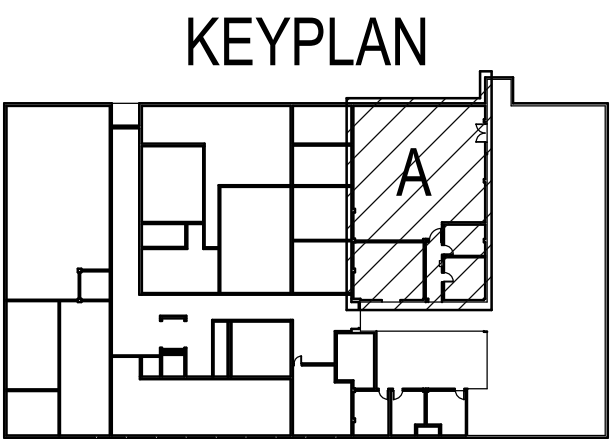


Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
Basement Plumbing
Plan - A

Sheet No.:

P1.1

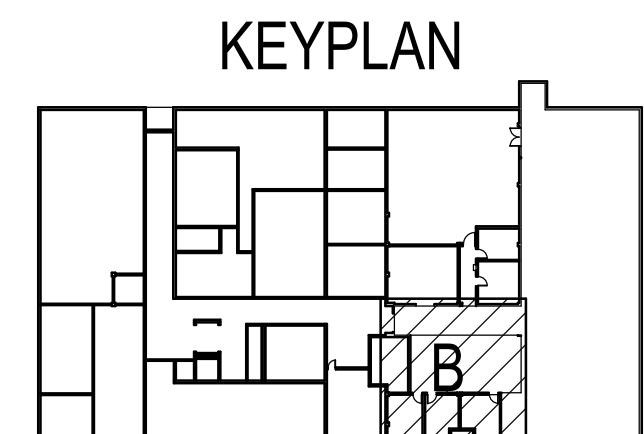


GENERAL NOTES

1. EXISTING CONDITIONS ARE TAKEN FROM ORIGINAL AND AS-BUILT DRAWINGS AND ARE, IN PART, UNVERIFIED. VERIFY ALL FIELD CONDITIONS PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK.
2. EXISTING BUILDING ELEMENTS AND DISTRIBUTION, INCLUDING BUT NOT LIMITED TO WALLS, CEILINGS, LIGHTS, CONDUIT, DUCTS, PIPING, INSULATION, OR OTHER SYSTEMS THAT ARE DAMAGED OR REMOVED DUE TO CONTRACTOR'S WORK SHALL BE PATCHED, REPAIRED, OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, THE OWNER, AND THE AUTHORITIES HAVING JURISDICTION.
3. COORDINATE SYSTEM SHUTDOWN WITH OWNER PRIOR TO PERFORMING WORK.

 SHEET KEYNOTES

1. NEW COMPRESSED AIR HOSE REEL ATTACHED TO STRUCTURAL COLUMN OR BEAM. PROVIDE REELCRAFT RT635-OLP WITH 35 FT. HOSE AND UNIVERSAL SWING BRACKET.



Affiliated Engineers, Inc.
12921 SW 1st Road, Suite 205
Newberry, FL 32669
352-376-5500 aeieng.com

ENGINEER-OF-RECORD
Kyle Weech FL P.E. No. 100329

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Consultant:	Client: Florida State University 	PHASE: DESIGN DEVELOPMENT 100% CONSTRUCTION DOCUMENTS	DRAWN: JP	REVIEWED: KW	DATE: 05-06-2026
Project #: 19370.72	Job Title: Keen Building - Remodel Rooms for Research				
Phase: Design Development					

Seal:

ALW

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206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
**Basement Plumbing
Plan - B**

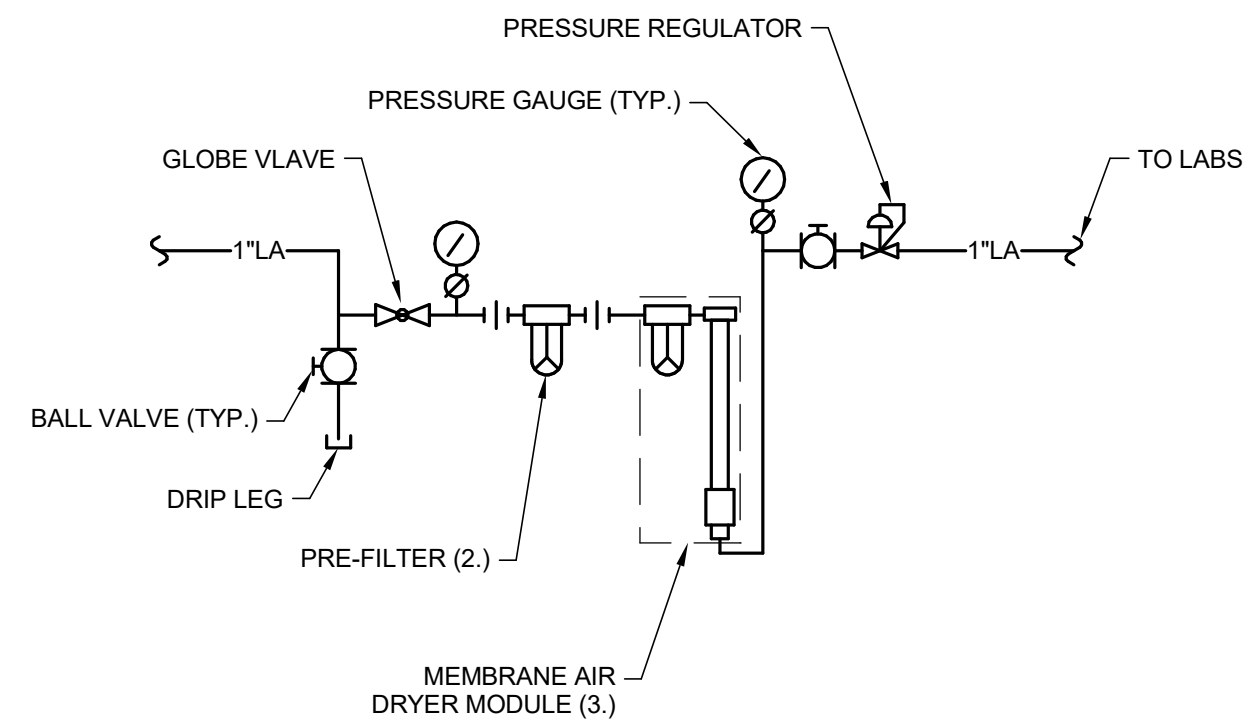
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12921 SW 1st Road, Suite 205
Newberry, FL 32669
352-376-5500 aeieng.com

ENGINEER-OF-RECORD
Kyle Weech FL P.E. No. 100329



NOTES:

1. INSTALL MEMBRANE AIR DRYER MODULE PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE BALSTON GRADE BX COALESCING PRE-FILTER MODEL 2208N-0B1-BX.
3. PROVIDE BALSTON MODEL 76-20 MEMBRANE AIR DRYER.

1 AIR PURIFIER

SCALE: NOT TO SCALE

LABORATORY PLUMBING FIXTURES													
TAG	FIXTURE		TRIM			CONNECTIONS							
	TYPE	MANUFACTURER AND MODEL NUMBER	TYPE	MANUFACTURER AND MODEL NUMBER	DESCRIPTION	WASTE	VENT	TRAP	COLD WATER (DCW)	HOT WATER (DHW)	LAB GAS (G)	LAB VACUUM (LV)	LAB AIR (A)
SK-1	LAB SINK EPOXY UNDERMOUNT	REFER TO ARCHITECTURAL DRAWINGS	FAUCET	WATERSAVER L412VB-BH	RESIN WORK SURFACE WITH EPOXY RESIN, UNDERMOUNT SINK LABORATORY MIXING FAUCET. DECK MOUNTED, 6" SWING VACUUM BREAKER GOOSENECK, WRIST BLADE HANDLES.	2"	2"	1-1/2"	1/2"	1/2"	-	-	-
			DRAIN	ELKAY LK-99	STAINLESS STEEL BODY, 1-1/2" CHROME PLATED BRASS TAILPIECE, STAINLESS BASKET STRAINER, 3-1/2" OPENING.								
			TRAP	N/A	POLYPROPYLENE TRAP								
			STOPS & SUPPLIES	MCGUIRE LF2167CLK	ANGLE PATTERN, LOCK SHIELD CAP, LOOSE KEY HANDLE, 1/2" NPT INLET X 1/2" NPT OUTLET, POLISHED CHROME.								
EM-1	COMBINATION EMERGENCY SHOWER AND EYEWASH	GUARDIAN G1902HFC	N/A	N/A	FREESTANDING COMBINATION DRENCH SHOWER AND EYEWASH, PLASTIC SHOWER HEAD, STAY-OPEN CHROME PLATED BRASS BALL VALVES, STAINLESS STEEL EYEWASH BOWL, WITH DUAL ANTI-SURGE SPRAY HEADS AND AUTOMATIC PRESSURE COMPENSATION DEVICES, HAND AND FOOT OPERATION FOR EYEWASH, PULL DOWN OPERATION FOR SHOWER, 20 GPM MAXIMUM FLOW CONTROL.	-	-	-	1-1/4"	-	-	-	-

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PHASE:	DRAWN:	REVIEWED:	DATE:
DESIGN DEVELOPMENT	JP	KW	05-06-2026
100% CONSTRUCTION DOCUMENTS	JP	KW	06-26-2026

Client: **Florida State University**

Job Title: **Keen Building - Remodel Rooms for Research**

Consultant:	
Project #: 19370.72	
Phase: Design Development	

Seal:

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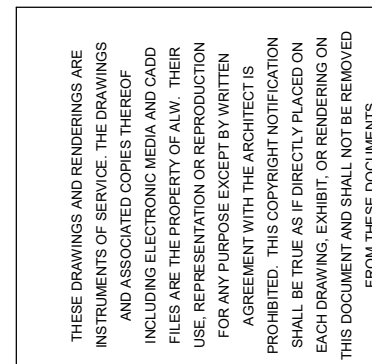
Description:
Plumbing Schedules
and Details

Sheet No.:

P9.1

 SHEET KEYNOTES

1. DEMOLISH EXISTING SINK TO BE REPLACED WITH NEW UTILITY SINK.
2. DEMOLISH EXISTING COLD WATER, HOT WATER RETURN AND LAB AIR PIPING. CAP REMAINING MAINS DOWNSTREAM OF ISOLATION VALVES FOR NEW CONNECTION.
3. EXISTING ISOLATION VALVES SHALL REMAIN. VERIFY PROPER VALVE OPERATION AND REPLACE ANY VALVES FOUND TO BE NON-OPERATIONAL.
4. EXISTING STORM DRAIN AND HOT WATER RETURN PIPING TO REMAIN.

[illegible]

REVIEWED:	DATE:
KW	05-06-2026
KW	06-26-2026

PHASE:	DRAWN:
DESIGN DEVELOPMENT	JP
100% CONSTRUCTION DOCUMENTS	JP

Client: **Florida State University**

Job Title: **Keen Building - Remodel**

Consultant:	
Project #: 19370.72	
Phase: Design Development	

ALW

Description:
**Basement Plumbing
Demolition Plan - A**

PD1.1

