	HVAC LEGEND
DOUBLE LINE	<u>DESCRIPTION</u>
	PROPELLER FAN
<u> </u>	MOTOR OPERATED DAMPER
T	THERMOSTAT

ABBREVIATIONS

Α	AMPERES
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMSL	ABOVE MEAN SEA LEVEL
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CU IN	CUBIC INCHES
D	DRAIN LINE
DB	DRY BULB
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRIC
EWB	ENTERING WET BULB TEMPERATURE
EXH	EXHAUST AIR
F	FILTER
° F	DEGREES FAHRENHEIT
FG	FINISHED GRADE
FF	FINISHED FLOOR
FLA	FULL LOAD AMPERES
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
HP	HORSEPOWER
HR	HOUR
HZ	FREQUENCY
IN	INCH OR INCHES
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB
MAX	MAXIMUM
MBH	BRITISH THERMAL UNITS/HOUR, THOUSANDS
MIN	MINIMUM
NO.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PD	PRESSURE DROP
PH	PHASE
RHG	REFRIGERANT HOT GAS DISCHARGE
RL	REFRIGERANT LIQUID
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SP	STATIC PRESSURE
SPEC	SPECIFICATION
TEMP	TEMPERATURE
TYP	TYPICAL
UH	UNIT HEATER
W	WIDTH
W/	WITH
W/O	WITHOUT

LINE VOLTAGE	DA
--------------	----

UNIT HEATER CONTROL DIAGRAM NO SCALE

UNIT	HEATER	_	(TYPICAL	OF	1)

1.	ON A CALL FOR HEATING FROM THE UNIT MOUNTED THERMOSTAT, THE
	UNIT HEATER FAN SHALL START AND THE HEATING COIL SHALL ENERGIZI
2.	WHEN THE UNIT MOUNTED THERMOSTAT IS SATISFIED, THE HEATING COIL
	SHALL DE-ENERGIZE AND THE FAN SHALL STOP.

ELECT	RIC UNIT HEATER S	CHEDULE	SPECIFIC	ATION SEC	TIONS 23	88239.16									
			TOTAL	AIR DA	ATA		ELECTRIC	C DATA		МОТ	TOR DAT	ГΑ	SELECTION BA	ASED ON	
UNIT NO.	SERVING	UNIT TYPE	CAPACITY BTUH	CFM	EAT ºF	KW	FLA	VOLT	PH	HP \	VOLT	PH	MANUFACTURER	MODEL	REMARKS
UH-1	ADMIN ROOM	HORIZONTAL	9729	400	55	3.3	13.7	240	1	1/125	240	1	TRANE	UHEC031B0C0	SEE NOTE 3 BELOW. PROVIDE WITH DISCONNECT AND UNIT MOUNTED THERMOSTAT

NOTE 3: UNIT CAPACITY BTUH IS CORRECTED FOR ALTITUDE OF 4000 FT AMSL.

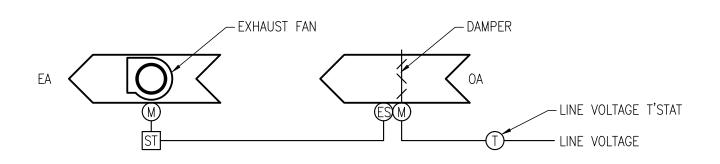
FAN SC	HEDULE: SPECIFICATION SECTION	N 233423													
							TOTAL			МОТО	OR DATA		SELECTION	BASED ON	
UNIT NO.	SERVING	TYPE	CFM	WHEEL DIA, IN.	DRIVE	BLADE TYPE		FAN RPM	HP	RPM	VOLT	PH	MANUFACTURER	MODEL	REMARKS
EF-1	AERATION BLOWER ROOM	SIDEWALL	125	8	DIRECT	PROPELLER	0.25"	1550	1/30	1550	120	1	GREENHECK	SE1-8-440-D	PROVIDE SPEED CONTROLLER & REMOTE THERMOSTAT
EF-2	EXISTING BUILDING TOILET ROOM	SIDEWALL	100	8	DIRECT	PROPELLER	0.25"	1550	1/30	1550	120	1	GREENHECK	SE1-8-440-D	PROVIDE SPEED CONTROLLER. ON / OFF CONTROL VIA LIGHT SWITCH

SPLIT S	SYSTEM AIR HANDLIN	IG UN	NIT S	CHE	DULE	SPEC	IFICATION S	ЕСПОN 2812	6									
			;	SUPPLY F	AN DAT	A		COOLING	DATA			UI	NIT ELE	CTRIC D	ATA	SELECTION BA	ASED ON	
UNIT NO.											SEER @ARI	VOLT	PH	MCA	МОСР	MANUFACTURER	MODEL	REMARKS
AHU-1	ELECTRIC ROOM	0	286	0	110w	MED	10,363	10363	80	66.6	13	120	1	1.2	15	MITSUBISHI	MS-A12WA	MR. SLIM, SEE NOTE 2 BELOW

NOTE 2: CAPACITY BTUH IS CORRECTED FOR AN ALTITUDE OF 4000 FT. AMSL.

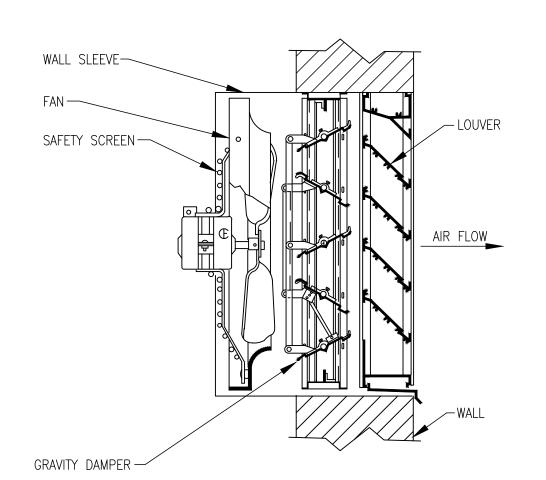
SPLIT S	SYSTEM AIR CO	OLED	COND	ENSI	NG U	NIT S	CHEC	ULE:	SPECIFIC	ATION SE	CTION 2381	26				
		l	JNIT DATA		FAN M	OTOR(S)	со	MPRESSO	DR(S)		UNIT ELEC	TRIC DATA		SELECTION E	BASED ON	
UNIT NO.	SERVING	CAPACITY BTUH	COND. EAT ºF	REFRIG. TYPE	NO.	HP	NO.	LRA	RLA	MCA	MOCP	VOLT	PH	MANUFACTURER	MODEL	REMARKS
CU-1	AHU-1	10,363	95	410	1	106W	1	56	10.82	16	20	120	1	MITSUBISHI	MU-A12WA	MR. SLIM, SEE NOTE 1 BELOW

NOTE 1: CAPACITY BTUH IS CORRECTED FOR ALTITUDE OF 4000 FT. AMSL.

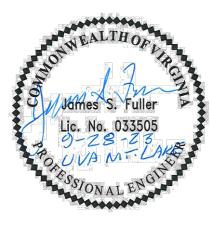


EXHAUST FAN (THERMOSTAT) CONTROL DIAGRAM NO SCALE

- EXHAUST FAN THERMOSTAT (TYPICAL OF 1)
- 1. ON A CALL FROM THE LINE VOLTAGE SPACE THERMOSTAT (ADJUSTABLE, INITIALLY SET FOR 80°F), THE OA DAMPER SHALL OPEN. WHEN THE OA DAMPER IS PROVEN OPEN VIA END SWITCH, THE EXHAUST FAN
- 2. WHEN THE LINE VOLTAGE THERMOSTAT IS SATISFIED, THE EXHAUST FAN SHALL STOP AND THE OA DAMPER SHALL CLOSE.



PROPELLER WALL FAN
NO SCALE



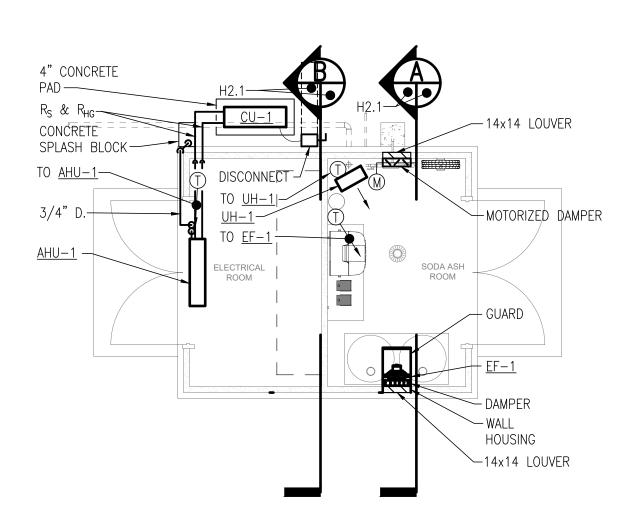
09/28/2023

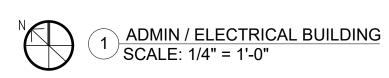
DESIGNED BY CHECKED BY

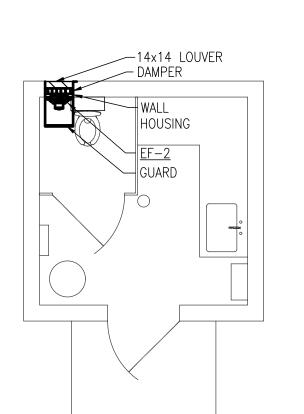
SCALE

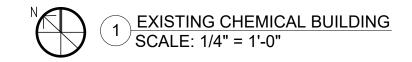
AS NOTED

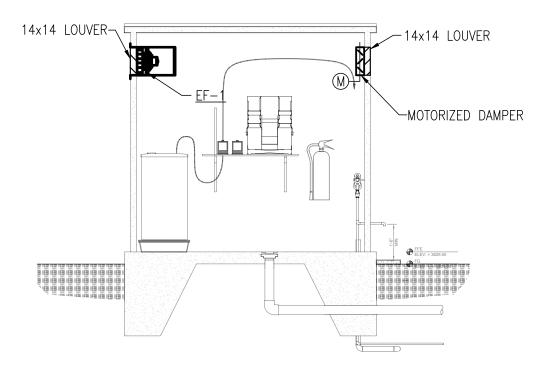
53153.001 SHEET NO. H1.1

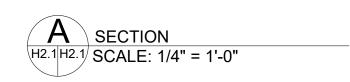


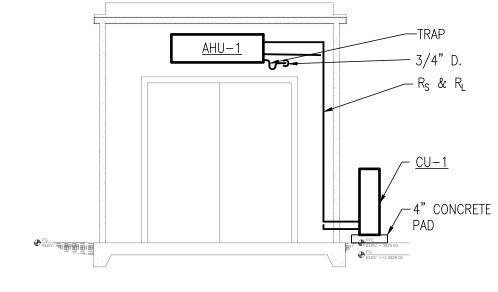


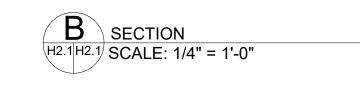






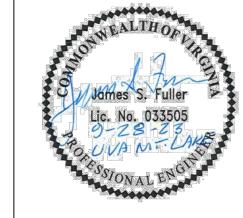






NOTES

ONLY EPA CERTIFIED TECHNICIANS WILL BE ALLOWED TO MAINTAIN, SERVICE, REPAIR, AND DISPOSE OF EQUIPMENT CONTAINING REFRIGERANT. TECHNICIANS MUST FOLLOW THE REQUIRED PRACTICES PERTAINING TO MAINTENANCE, SERVICE, REPAIR, AND DISPOSAL OF REFRIGERATION AND AIR CONDITIONING EQUIPMENT PROVIDED IN 40 CFR 82 SUBPART F ON REFRIGERANT RECYCLING AND EMISSIONS REDUCTIONS.



DATE

09/28/2023

DESIGNED BY

CHECKED BY SCALE

AS NOTED

HVAC FLOOR PLANS & SECTIONS SROUP and may not be reproduced in whole or in part and shall not be used for any puritten consent of TIMMONS GROUP.

U

S

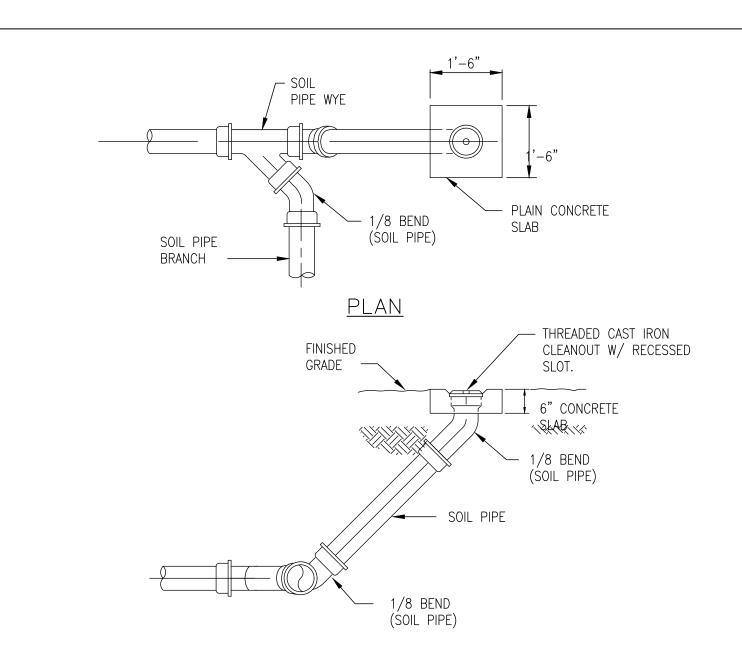
53153.001 SHEET NO.

H2.1

SCALE: 1/4" = 1'-0"

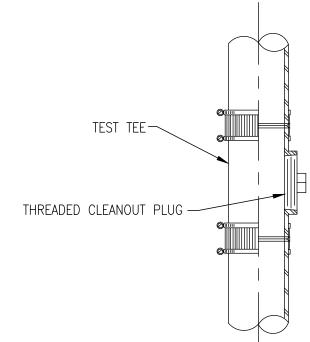
PLUMBING INSULATION	N SCHEDULE: SPEC	CIFICATION SECTION 220	700						
APPLICATION	SECTION	LOCATION	FLUID TEMPERATURE RANGE (F)	THICKNESS (IN)	FACTORY APPLIED JACKET	FIELD APPLIED JACKET	PAINT	INSULATION TYPE	REMARKS
DOMESTIC COLD WATER, (CW)	ALL SIZES	EXPOSED	40-80	1"	ASJ-SSL	PVC	NO	MINERAL FIBER	
DOMESTIC COLD WATER, (CW)	ALL SIZES	CONCEALED	40-80	1"	ASJ-SSL	NO	NO	MINERAL FIBER	
SANITARY DRAIN (SAN)	ALL SIZES	EXPOSED	40 - 120	1/2"	NO	PVC	NO	CLOSED CELL ELASTOMERIC	
SANITARY DRAIN (SAN)	ALL SIZES	UNDERGROUND	40 - 120	-	NO	NO	NO	NOT REQUIRED	
DOMESTIC HOT WATER (HW)	2" AND SMALLER	EXPOSED	40-140	1"	ASJ-SSL	PVC	NO	MINERAL FIBER	
DOMESTIC HOT WATER (HW)	2" AND SMALLER	CONCEALED	40-140	1"	ASJ-SSL	NO	NO	MINERAL FIBER	

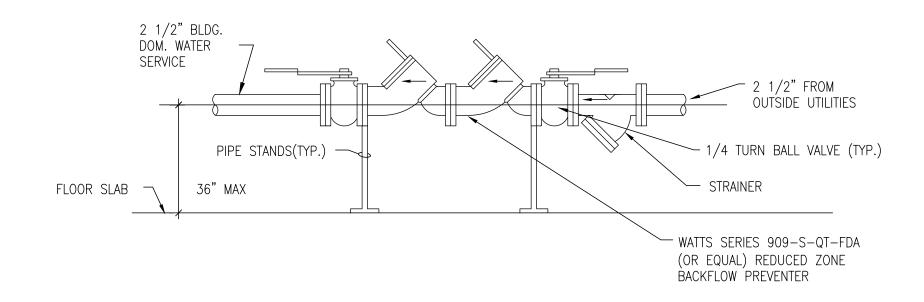
ELECT	RIC TANKLESS DC	MES	TIC W	ATER	HEAT	TER S	CHEDU	JLE: s	SPECIFICA	ATION SEC	TION 2233	00			
		FLOW	ACTIV.	DHW	UNI	IT DIMENSI	ONS		EL	ECTRICAL	DATA		SELECTION	N BASED ON	
UNIT NO.	SERVING	RATE GPM	FLOW RATE GPM	WATER TEMP °F	DEPTH	WIDTH	HEIGHT	KW	VOLT	AMP	PH	UEF	MANUFACTURER	MODEL	REMARKS
DWH-1	UTILITY BUILDING SINK	1.5	0.25	120	18 1/8"	17"	6 1/8"	18	240	75	1	0.92	AO SMITH	C4LA-180E	



<u>ELEVATION</u>







DOMESTIC WATER SERVICE ENTRANCE DETAIL

PLUMB	BING FIXTURE AND	TRII	VI SCH	HEDU	LE: SPEC	IFICATION SECTION	N 224000																
		20 500 20	WATER		FIX	TURE DATA				TRI	M DATA					ROUG	SH-IN SIZE	DATA	FIXTURE SELECTIO	N BASED ON	TRIM SELECTION B.	ASED ON	
UNIT NO.	DESCRIPTION	ADA COMP.	SENSE RATED	MOUNT	DRAIN DISCHARGE	MATERIAL	COLOR	TYPE	MATERIAL	FINISH		POWERE		GPF (GPM [DCW D	HW DRA	IN VE	ENT MANUFACTURER	MODEL	MANUFACTURER	MODEL	REMARKS
P-1	MACERATING WATER CLOSET			FLOOR	BACK	VITREOUS CHINA	WHITE	TANK	VITREOUS CHINA	WHITE	х	, .	. 101 9	1.28		1/2"	1'	11	1/2" SFA-SANIBEST PRO	NO. 087	SFA-SANIBEST PRO	NO. 005	ELONGATED BOWL UNIT. SEE NOTES BELOW

NOTES: THIS IS A MACERATING TYPE, TANK TOILET WITH CHROME PLATED BRASS HANDLE ON TANK. PROVIDE SFA-SANIFLOW PRO MODEL NO. 013 GRINDER TYPE PUMP UNIT; 1HP, 120V, 1PH, 9A. PROVIDE SPLIT, SOFT CLOSE SEAT. COORDINATE PLUMBING ROUGH-INS WITH LOCATION OF TOILE



S FULLER ENGINEERING

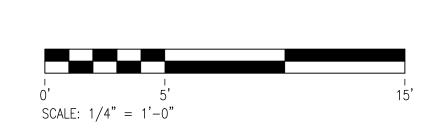
DATE 09/28/2023 DESIGNED BY CHECKED BY

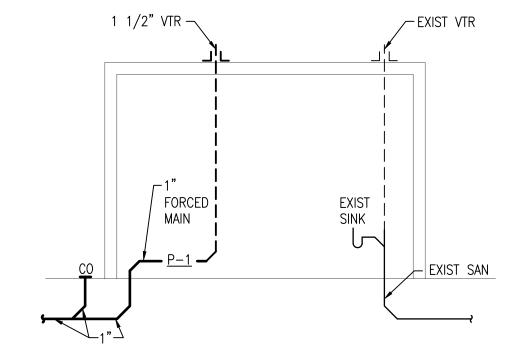
SCALE AS NOTED

& DETAILS

C

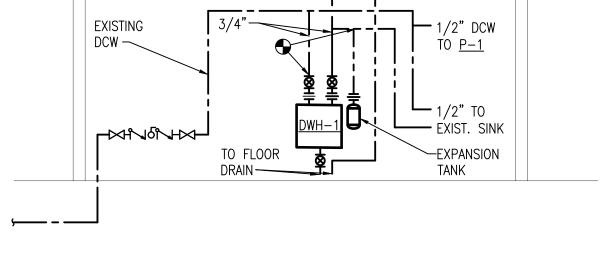
53153.001 SHEET NO. P1.1

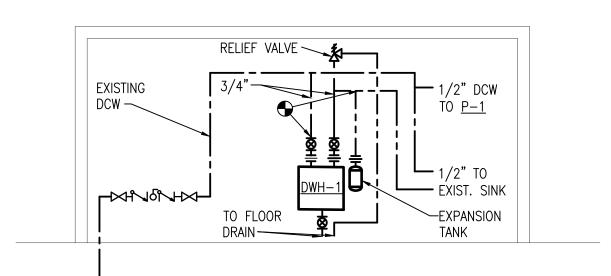






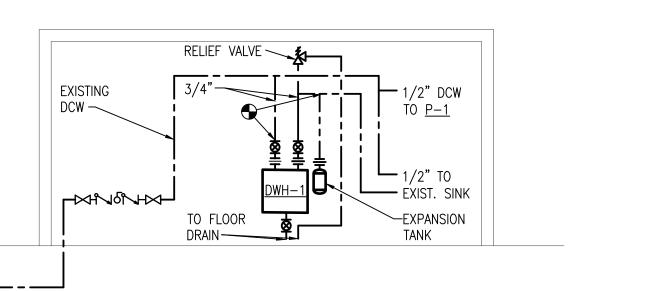
4 EXISTING UTILITY BUILDING RISER DIAGRAM NO SCALE





ADMIN / ELECTRICAL BUILDING SCALE: 1/4" = 1'-0"

INV. EL. 3826.9——



___1 1/2" CW

ENCLOSURE

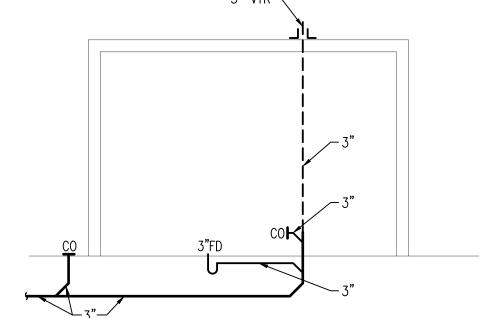
-1 1/2" RPZ

FREEZE PROOF HOSE BIB IN A LOCKABLE

-FREEZE PROOF HOSE

BIB IN A LOCKABLE

ENCLOSURE



M

| REMOVE ÉXIST

^JGAS DWH.−

REMOVE EXIST DHW & DCW PIPING AS REQUIRED.—

-EXIST SINK & FAUCET

REGULATOR. CAP EXIST

GAS PIPE AT GRADE.

`─PATCH EXIST WALL

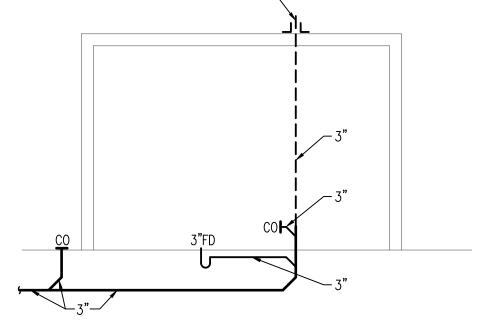
└─REMOVE EXIST GAS FLUE & DRAFT

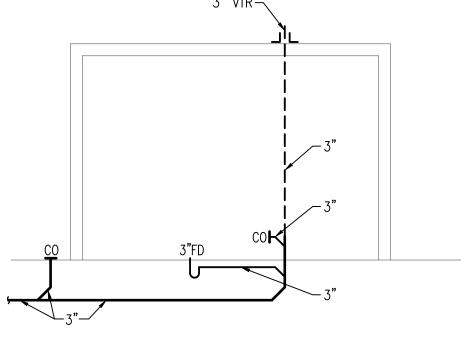
PENETRATIONS.

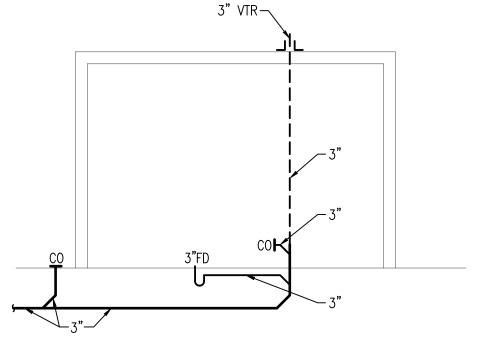
INDUCER.

-REMOVE EXIST GAS

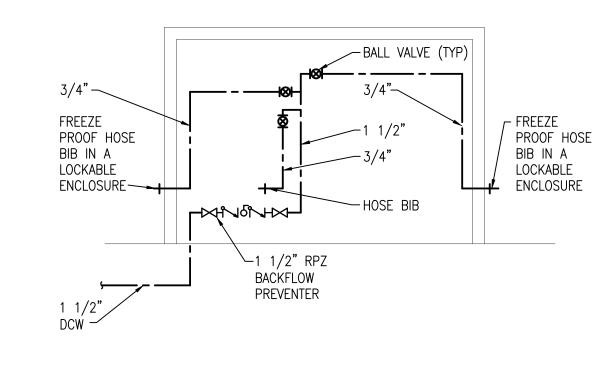
TO REMAIN.

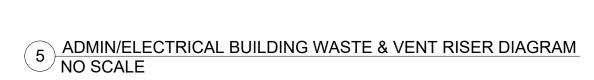




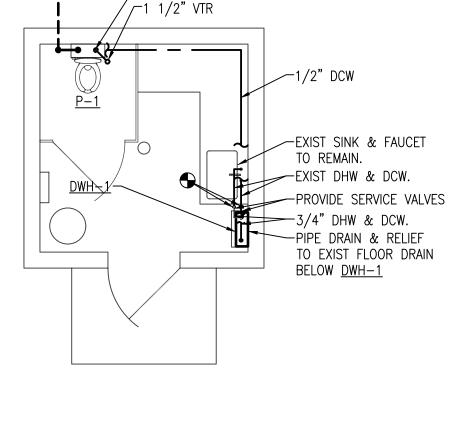


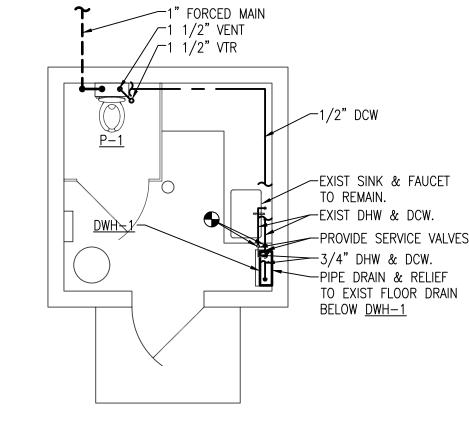
2 EXISTING UTILITY BUILDING - DEMOLITION SCALE: 1/4" = 1'-0"











EXISTING UTILITY BUILDING - NEW WORK
SCALE: 1/4" = 1'-0"

Judimes S Lic. No. O Z S SSION A	Fuller 033505
1E nd, VA 23225 .timmons.com	

JS FULLER ENGINEERING

DATE 09/28/2023

DRAWN BY

JSF

DESIGNED BY

JSF

CHECKED BY

SCALE

AS NOTED

FLOOR PLANS & RISER DIAGRAMS ay not be reproduced in whole or in part and shall not be used for any purpose whatsoever if TIMMONS GROUP.

JOB NO. 53153.001

SHEET NO. P2.1

C