	1		2		3	4	1
						PIPE LINE ACCESSO	<u>)</u> R
						OS&Y OUTSIDE SCREW & YOKE VAL	VE
						■ BUTTERFLY VALVE	
A						CHECK VALVE	
						3-WAY VALVE	
						BALANCING VALVE / CIRCUIT	
						RELIEF, SAFETY OR THERMAL	
						MOTORIZED CONTROL VALVE	
						HOSE GATE DRAIN VALVE	
						GLOBE VALVE	
						N PLUG VALVE	
						SRC SPRING RETURN CLOSED BAL	.L
D							
В						SELF CONTAINED PRESSURE REDUCING (REGULATING)	
						VALVE	
						AUTOMATIC AIR VENT	
						MANUAL AIR VENT ASSEMBLY - SEE SPECIFICATIONS FOR	
						APPROPRIATE VALVE TYPE	
—						FOR FLEX CONNECTION	
						T STEAM TRAP	
C							
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					•	DUDNC	
						BURNS MSDONNELL	
						Burns & McDonnell Engineering Company, Inc. 9450 WARD PARKWAY, KANSAS CITY, MO	
		Dovician					
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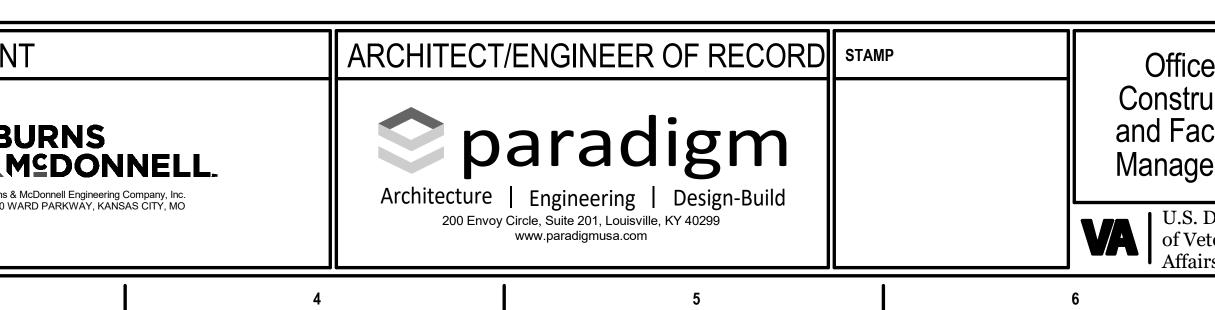
CONTROLLE	D UNCLASSIFIED	INFORMATION
	•	

			CONTROL	LED UNCLASS		NFORMATION
	4		5			6
PIP	E LINE ACCESSORIE	S				
\bowtie	GATE VALVE				BING S	SYMBOLS LEG
OS&Y ⋈	OUTSIDE SCREW & YOKE VALVE	$\overline{\bigcirc}$	PUMP			
≠	BUTTERFLY VALVE	Ų	THERMOMETER		WC-1	WATER CLOSET
►Z	CHECK VALVE	⊢BFP⊣	BACKFLOW PREVENTION ASSEMBLY	EO	WC-2	WATER CLOSET - ACCESS
R	2-WAY VALVE	Γ-1	SUCTION DIFFUSER		U-1	URINAL
Ŕ	3-WAY VALVE				U-2	URINAL, ACCESSIBLE
Ю	BALL VALVE	$\langle \gamma \rangle$	PRESSURE GUAGE	\bigcirc	LAV-1	LAVATORY, COUNTER MO
	BALANCING VALVE / CIRCUIT SETTER	\mathbf{k}	Y-TYPE STRAINER		LAV-2	LAVATORY, WALL MOUNT
	RELIEF, SAFETY OR THERMAL]	REMOVABLE CAP			
	RELIEF VALVE	中 [REMOVABLE PLUG		JS-1	JANITOR SINK
\mathbb{X}	MOTORIZED CONTROL VALVE		REDUCER (CONCENTRIC)		MB-1	MOP BASIN
\bowtie	HOSE GATE DRAIN VALVE		BLIND FLANGE			
	GLOBE VALVE				SH-1	SHOWER
\bigotimes	PLUG VALVE	T	TEST CONNECTION		SK-1	KITCHEN SINK
src फ्रि	SPRING RETURN CLOSED BALL VALVE	НМН	METER	•••	SK-2	SINK
	ANGLE VALVE	⊢FM	FLOW METER			
57	SELF CONTAINED PRESSURE		STRAINER		SK-3	UNDER MOUNT SINK
Ŕ	REDUCING (REGULATING) VALVE				EWC-1	DUAL ELECTRIC WATER C
	AUTOMATIC AIR VENT ASSEMBLY	IF - <u> </u> -	INSULATING FLANGE		EEWS-1	EMERGENCY EYEWASH / S
hum	MANUAL AIR VENT ASSEMBLY	<u>~~~~</u>	PIPE WITH HEAT TRACE	0	4" FD-A	SIZE - FLOOR DRAIN
∲м∨	- SEE SPECIFICATIONS FOR APPROPRIATE VALVE TYPE	►	FLOW ARROW	这		PRESSURE/TEMPERATUR
$\vdash \sim \vdash$	FLEX CONNECTION			-	НВ	HOSE BIBB
Т	STEAM TRAP	ESS	EMERGENCY SHUTOFF SWITCH	+	WH	WALL HYDRANT

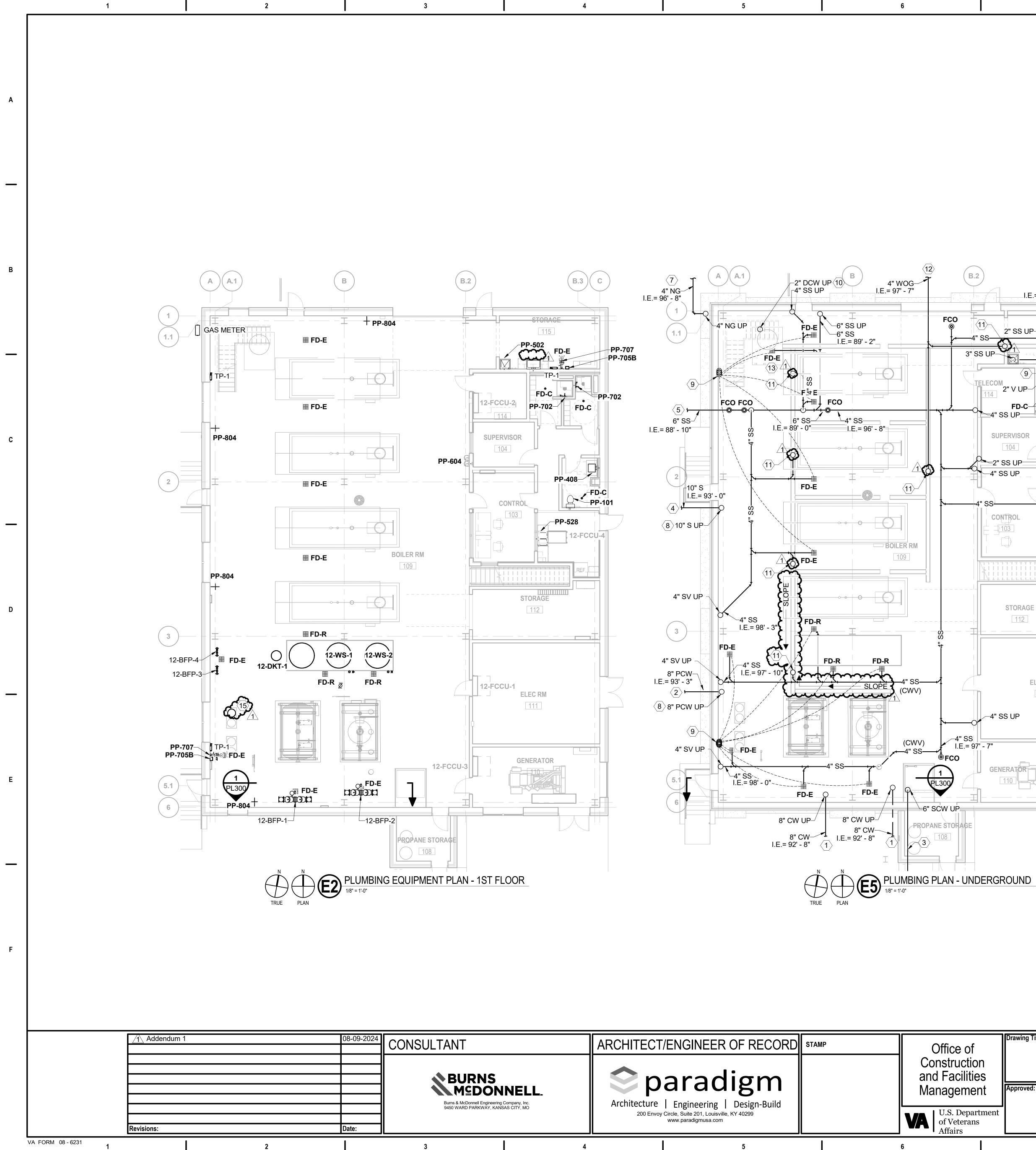
		7 8	9	10	_
		PLUMBING ABBREVIATIONS			
	SYMBOLS LEGEND	AC AIR COCK AFF ABOVE FINISHED FLOOR	OUTSIDE OF THE BUILDING WALL.	AND MECHANICAL INTERFACE POINT IS 5 FEET	
WC-1	WATER CLOSET	AG AIR GAP ARV AIR RELEASE VALVE		EMENTS WITH FOUNDATION SUBCONTRACTOR. OR DRAINS WITH ACTUAL EQUIPMENT LOCATIONS	
₩C-2 ₩C-2	WATER CLOSET - ACCESSIBLE URINAL	BF BLIND FLANGE BFP REDUCED PRESSURE BACKFLOW		OT ALL ITEMS SHOWN MAY BE USED ON THIS	
U-1	URINAL URINAL, ACCESSIBLE	PREVENTER BOP BOTTOM OF PIPE		PE DOWNWARD IN DIRECTION OF FLOW. INSTALL	A
	LAVATORY, COUNTER MOUNTED	BWBUTT WELDCFCHEMICAL FEED	6. ALL FIXTURES SHALL HAVE A P-TRAP INS		
	LAVATORY, WALL MOUNTED	CH OP CHAIN WHEEL OPERATOR CONC CONCENTRIC		E AND OPERABLE PLUMBING SYSTEMS AS	
	JANITOR SINK	CORP STOP CORPORATION STOP CPVC CHLORINATED POLYVINYL CHLORIDE		PMENT AND APPURTENANCES IN ACCORDANCE	
MB-1	MOP BASIN	CWV COMMON WASTE VENT D DRAIN	APPLICABLE CODES AND REGULATIONS.		_
	MOF BASIN	DI DUCTILE IRON DKT DEALKALIZER TANK	ELECTRICAL WORK ETC., SHOWN ON OT 10. MAINTAIN A MINIMUM OF 6' - 8" CLEARAN	HER CONTRACT DOCUMENT DRAWINGS. CE TO UNDERSIDE OF PIPES, CONDUITS, ETC.,	
SH-1	SHOWER	DN DOWN DWH DOMESTIC WATER HEATER	THROUGHOUT ACCESS ROUTES AND IN 11. LOCATE ALL PLUMBING EQUIPMENT FOR		
• • SK-1	KITCHEN SINK	ELL ELBOW	PANELS, CONTROLS, AND VALVING TO A 12. VERIFY DIMENSIONS AND CONNECTION		
•••• SK-2	SINK	EXIST EXISTING FCA FLANGED COUPLING ADAPTER	13. ALL ELEVATIONS ARE ABOVE FINISHED F OTHERWISE.	LOOR TO BOTTOM OF PIPE UNLESS NOTED	
SK- 3	UNDER MOUNT SINK	FDFLOOR DRAINFEFLANGED END	14 DO NOT ROUTE PIPING ABOVE ELECTRIC CLEARANCES.	CAL PANELS. MAINTAIN ALL CODE REQUIRED	В
EWC-1	DUAL ELECTRIC WATER COOLER	FFFLAT FACEDFIFLOW INDICATOR		S FOR COPPER PIPE AND TUBE ARE PROHIBITED. 1 00 FACITLITY WATER DISTRUBUTION PIPING.	
EEWS-1	EMERGENCY EYEWASH / SHOWER	FLGD FLANGED FM FLOW METER	OPERATORSCAN TAKE DAILY READINGS	ED IN AN ACCESSIBLE LOCATION SO THE B. REFER TO SPECIFICATION 251010 FOR EXACT	
• 4" FD-A	SIZE - FLOOR DRAIN	FOB FLAT ON BOTTOM FOT FLAT ON TOP		ND DHW LINE PRIOR TO ALL PLUMBING FIXTURES.	
R	PRESSURE/TEMPERATURE RELIEF VALVE	FOV FLOAT OPERATED VALVE FRP FIBERGLASS REINFORCED PIPE	CONTRACTOR TO PLACE ISOLATION VAL	VES IN AN ACCESSIBLE LOCATION.	4
→ НВ	HOSE BIBB	FW FIELD WELD	SECTION CUT SYMBOL	CONSTRUCTION	-
➡ WH	WALL HYDRANT	HD HUB DRAIN I.E. INVERT ELEVATION	- INDICATES PERSPECTIVE	INTERFACE	
	DESIGNATIONS	IF INSULATED FLANGE LC LOCK CLOSED	AND LIMITS OF SECTION SECTION	DEMOLITION	
<u>FIFE LINE</u>	VENT	LO LOCK OPEN LR LONG RADIUS	A DESIGNATOR	EXISTING EXISTING	
<u> </u>	VENT STORM (ABOVE GRADE)	NPSHNET POSITIVE SUCTION HEADNRSNON-RISING STEM	M-001 DRAWING WHERE SECTION IS SHOWN	NEW DEMOLITION	√ C
<u> </u>	STORM (BELOW GRADE)	NWLNORMAL WATER LEVELPSIAPOUNDS PER SQUARE INCH ABSOLUTE	SECTION IS SHOWN	EXISTING	
OD	STORM OVERFLOW	PSIGPOUNDS PER SQUARE INCH GAUGEPVCPOLYVINYL CHLORIDE		DETAIL / ENLARGED	1
<u>CW</u>	CITY WATER	RED REDUCER-REDUCING RS RISING STEM		CALLOUT SYMBOL	
	CITY WATER VENT	SCH SCHEDULE SCRD SCREWED	DETAIL/SECTION TITLE		
PCW DCW	PUMPED CITY WATER DOMESTIC COLD WATER	SR SHORT RADIUS TD TRENCH DRAIN	LOCATION WHERE DETAIL / SECTION IS	INDICATES LIMITS OF DETAIL/SECTION	-
SCW	SOFTENED DOMESTIC COLD WATER	TOC TOP OF CONCRETE	SHOWN ON SHEET		
DHW	DOMESTIC HOT WATER	TOGTOP OF GRATINGTOPTOP OF PIPE	PLAN/SECTION/DETAIL	DETAIL/SECTION	
DHWR	DOMESTIC HOT WATER RECIRCULATION	TOSTOP OF STEELTPTRAP PRIMER	TITLE XX SHEET	DESIGNATOR	
SS	SANITARY SEWER (ABOVE GRADE)	VTRVENT THROUGH ROOFWOGWATER OIL GAS	REFERENCE-	M-001 SHEET WHERE	
<u></u>	SANITARY SEWER (BELOW GRADE) SANITARY VENT	PIPE SYMBOLS		DETAIL/SECTION IS SHOWN	D
COND	CONDENSATE DRAIN				
CA	COMPRESSED AIR	<pre>① PIPE DOWN</pre>	RISER D	IAGRAM LEGEND	
NG	NATURAL GAS		► CO	CLEANOUT (CO) IN RISER	
WOG	WATER, OIL, GAS	S PIPE CONTINUATION	FCO		_
SALT	INDUSTRIAL WATER SUPPLY SALT FILL			CLEANOUT (FCO) IN FLOOR	
₽ CO	SALT FILL CLEANOUT IN RISER			VENT THRU ROOF (VTR)	
수 wco	CLEANOUT IN WALL			FLOOR OR WALL PENETRATION	
O FCO	CLEANOUT IN FLOOR		T		
		7		PLUMBING FIXTURE TRAP	E
			\$	FLOOR DRAIN / EQUIPMENT DRAIN	
			Q WHA-A	WATER HAMMER ARRESTOR	
			WCO	WALL CLEANOUT (WCO)	
				ISOMETRIC DIRECTION ARROW	
			DN	Jun-25-2024	
				South of the second sec	- F
				SEAN ALAN FISCHBACH	
			. 	furt france	-
RD stamp	Drawing Drawing Drawing		CONSTRUCTION DOCUMENTS SIOUX	FALLS BOILER PLANTProject Number438-22-900	
	Construction	ABBREVIATIONS		Building Number	il
	and Facilities	d: Project Director	Location	12 Drawing Number	
		.,		2501 W 22nd St, Sioux Falls, SD 57105	[]
ll i	U.S. Department		FULLY SPRINKLERED Issue Date	Checked Drawn PL000	11
I	of Veterans Affairs		06/25/2024	S. FISCHBACH J. YOUNG	\

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		PLUMBING ABBREVIATIONS	GENERAL NOTES:	
<u>PLUMBING</u>	SYMBOLS LEGEND	AC AIR COCK AFF ABOVE FINISHED FLOOR	1. UNLESS NOTED OTHERWISE, THE CIVIL A OUTSIDE OF THE BUILDING WALL.	AND MECHANICAL INTERFACE POINT IS 5 FEET
WC-1	WATER CLOSET	AG AIR GAP ARV AIR RELEASE VALVE		MENTS WITH FOUNDATION SUBCONTRACTOR. R DRAINS WITH ACTUAL EQUIPMENT LOCATIONS
WC-2	WATER CLOSET - ACCESSIBLE	BF BLIND FLANGE	AND DRAINAGE REQUIREMENTS.	TALL ITEMS SHOWN MAY BE USED ON THIS
ਦ 🗋 U-1	URINAL	BFP REDUCED PRESSURE BACKFLOW PREVENTER	PROJECT.	PE DOWNWARD IN DIRECTION OF FLOW. INSTALL
Ə 🗋 U-2	URINAL, ACCESSIBLE	BOPBOTTOM OF PIPEBWBUTT WELD	VENT PIPING WITH 1% SLOPE DOWNWAR	RD TOWARD FIXTURE OR STACK.
D LAV-1	LAVATORY, COUNTER MOUNTED	CF CHEMICAL FEED CH OP CHAIN WHEEL OPERATOR	, , ,	ERS, ETC. AND EQUIPMENT AND PERFORM ALL
	LAVATORY, WALL MOUNTED	CONC CONCENTRIC	LABOR REQUIRED TO INSTALL COMPLETE INDICATED ON THE DRAWINGS, AS SPEC	E AND OPERABLE PLUMBING SYSTEMS AS FIED AND AS REQUIRED BY CODE.
JS-1	JANITOR SINK	CORP STOP CORPORATION STOP CPVC CHLORINATED POLYVINYL CHLORIDE	8. INSTALL ALL PLUMBING FIXTURES, EQUIF WITH MANUFACTURER'S RECOMMENDAT	MENT AND APPURTENANCES IN ACCORDANCE IONS, CONTRACT DOCUMENTS, AND
		CWV COMMON WASTE VENT D DRAIN	APPLICABLE CODES AND REGULATIONS.9. COORDINATE CONSTRUCTION OF ALL PL	JMBING WORK WITH STRUCTURAL, CIVIL.
MB-1	MOP BASIN	DI DUCTILE IRON	ELECTRICAL WORK ETC., SHOWN ON OTH 10. MAINTAIN A MINIMUM OF 6' - 8" CLEARANG	IER CONTRACT DOCUMENT DRAWINGS.
SH-1	SHOWER	DKT DEALKALIZER TANK DN DOWN	THROUGHOUT ACCESS ROUTES AND IN M	IECHANICAL ROOMS.
• • SK-1	KITCHEN SINK	DWH DOMESTIC WATER HEATER ELL ELBOW	11. LOCATE ALL PLUMBING EQUIPMENT FOR PANELS, CONTROLS, AND VALVING TO AL	LOW FOR MAINTENANCE ACCESS.
 SK-2	SINK	EXIST EXISTING	12. VERIFY DIMENSIONS AND CONNECTION S 13. ALL ELEVATIONS ARE ABOVE FINISHED F	IZE WITH FURNISHED EQUIPMENT. _OOR TO BOTTOM OF PIPE UNLESS NOTED
SK-3	UNDER MOUNT SINK	FCA FLANGED COUPLING ADAPTER FD FLOOR DRAIN	OTHERWISE.	AL PANELS. MAINTAIN ALL CODE REQUIRED
		FE FLANGED END	CLEARANCES.	
EWC-1	DUAL ELECTRIC WATER COOLER	FF FLAT FACED FI FLOW INDICATOR		FOR COPPER PIPE AND TUBE ARE PROHIBITED. 00 FACITLITY WATER DISTRUBUTION PIPING.
EEWS-1	EMERGENCY EYEWASH / SHOWER	FLGD FLANGED FM FLOW METER	16. FLOW METERS SHOWN SHALL BE LOCAT OPERATORSCAN TAKE DAILY READINGS	ED IN AN ACCESSIBLE LOCATION SO THE REFER TO SPECIFICATION 251010 FOR EXACT
• 4" FD-A	SIZE - FLOOR DRAIN	FOB FLAT ON BOTTOM	DETAILS OF METER TYPES TOBE INSTAL	LED ON EACH SYSTEM.
速	PRESSURE/TEMPERATURE RELIEF VALVE	FOT FLAT ON TOP FOV FLOAT OPERATED VALVE	17. PROVIDE ISOLATION VALVES ON DOW AN CONTRACTOR TO PLACE ISOLATION VALVES	D DHW LINE PRIOR TO ALL PLUMBING FIXTURES. /ES IN AN ACCESSIBLE LOCATION.
➡ HB	HOSE BIBB	FRP FIBERGLASS REINFORCED PIPE		
→ WH	WALL HYDRANT	FW FIELD WELD HD HUB DRAIN	SECTION CUT SYMBOL	<u>CONSTRUCTION</u>
		I.E. INVERT ELEVATION IF INSULATED FLANGE	- INDICATES PERSPECTIVE AND LIMITS OF SECTION	INTERFACE
	DESIGNATIONS	LC LOCK CLOSED		DEMOLITION
		LO LOCK OPEN LR LONG RADIUS	A DESIGNATOR	EXISTING
<u>*</u>	VENT	NPSH NET POSITIVE SUCTION HEAD NRS NON-RISING STEM	M-001 — DRAWING WHERE	NEW DEMOLITIC
S	STORM (ABOVE GRADE) STORM (BELOW GRADE)	NWL NORMAL WATER LEVEL	SECTION IS SHOWN	
 OD	STORM (BELOW GRADE)	PSIA POUNDS PER SQUARE INCH ABSOLUTE PSIG POUNDS PER SQUARE INCH GAUGE		
CW		PVC POLYVINYL CHLORIDE RED REDUCER-REDUCING		<u>DETAIL / ENLARGED</u>
CWV	CITY WATER	RS RISING STEM		CALLOUT SYMBOL
<u>CWV</u>	CITY WATER VENT PUMPED CITY WATER	SCH SCHEDULE SCRD SCREWED	DETAIL/SECTION TITLE	
1 <u>CW</u>	DOMESTIC COLD WATER	SR SHORT RADIUS TD TRENCH DRAIN	LOCATION WHERE DETAIL / SECTION IS	LIMITS OF DETAIL/SECTION
SCW	SOFTENED DOMESTIC COLD WATER	TOC TOP OF CONCRETE	SHOWN ON SHEET	
 DHW	DOMESTIC HOT WATER	TOG TOP OF GRATING TOP TOP OF PIPE	PLAN/SECTION/DETAIL	
 DHWR	DOMESTIC HOT WATER RECIRCULATION	TOS TOP OF STEEL	TITLE	DESIGNATOR
SS	SANITARY SEWER (ABOVE GRADE)	TPTRAP PRIMERVTRVENT THROUGH ROOF	SHEET REFERENCE	M-001
SS	SANITARY SEWER (BELOW GRADE)	WOG WATER OIL GAS	-	SHEET WHERE DETAIL/SECTION IS
SV	SANITARY VENT	PIPE SYMBOLS		SHOWN
COND	CONDENSATE DRAIN	ц PIPE ELBOW		
CA	COMPRESSED AIR	Ŷ PIPE DOWN		AGRAM LEGEND
NG	NATURAL GAS	PIPE UP		
WOG	WATER, OIL, GAS	S PIPE CONTINUATION		CLEANOUT (CO) IN RISER
IWS	INDUSTRIAL WATER SUPPLY		FCO	CLEANOUT (FCO) IN FLOOR
SALT	SALT FILL			
₽ CO	CLEANOUT IN RISER			VENT THRU ROOF (VTR)
수 wco	CLEANOUT IN RISER CLEANOUT IN WALL			VENT THRU ROOF (VTR) FLOOR OR WALL PENETRATION
	CLEANOUT IN RISER			FLOOR OR WALL PENETRATION
수 wco	CLEANOUT IN RISER CLEANOUT IN WALL			
수 wco	CLEANOUT IN RISER CLEANOUT IN WALL			FLOOR OR WALL PENETRATION
수 wco	CLEANOUT IN RISER CLEANOUT IN WALL		- √ - √ •	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN
순 wco	CLEANOUT IN RISER CLEANOUT IN WALL		ノ > > ~ し	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP
순 wco	CLEANOUT IN RISER CLEANOUT IN WALL		- √ - √ •	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN
순 wco	CLEANOUT IN RISER CLEANOUT IN WALL		, , , , , , , , , , , , , , , , , , ,	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR
순 wco	CLEANOUT IN RISER CLEANOUT IN WALL		, , , , , , , , , , , , , , , , , , ,	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR
순 wco	CLEANOUT IN RISER CLEANOUT IN WALL		, , , , , , , , , , , , , , , , , , ,	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR
수 wco	CLEANOUT IN RISER CLEANOUT IN WALL		, , , , , , , , , , , , , , , , , , ,	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR WALL CLEANOUT (WCO)
순 wco	CLEANOUT IN RISER CLEANOUT IN WALL		, , , , , , , , , , , , , , , , , , ,	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR WALL CLEANOUT (WCO) ISOMETRIC DIRECTION ARROW
순 wco	CLEANOUT IN RISER CLEANOUT IN WALL			FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR WALL CLEANOUT (WCO)
순 wco	CLEANOUT IN RISER CLEANOUT IN WALL			FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR WALL CLEANOUT (WCO) ISOMETRIC DIRECTION ARROW
순 wco	CLEANOUT IN RISER CLEANOUT IN WALL			FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR WALL CLEANOUT (WCO) ISOMETRIC DIRECTION ARROW
Ϋ́ wco O FCO	CLEANOUT IN RISER CLEANOUT IN FLOOR	Γitie		FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR WALL CLEANOUT (WCO) ISOMETRIC DIRECTION ARROW
Υ WCO O FCO	CLEANOUT IN RISER CLEANOUT IN FLOOR	UMBING GENERAL NOTES, SYMBOLS, AND	$rac{1}{2}$ $rac{$	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR WALL CLEANOUT (WCO) ISOMETRIC DIRECTION ARROW Jun-25-2024 OF OF OF OF OF OF OF OF OF OF
Ϋ́ wco O FCO	CLEANOUT IN RISER CLEANOUT IN FLOOR		$rac{1}{2}$ $rac{$	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR WALL CLEANOUT (WCO) ISOMETRIC DIRECTION ARROW Jun-25-2024 VALANS SEAR ALAN FISCHBACH VALANS SEAR ALAN FISCHBACH VALANS SEAR ALAN FISCHBACH VALANS SEAR ALAN FISCHBACH VALANS SEAR ALAN FISCHBACH
수 wco	CLEANOUT IN RISER CLEANOUT IN FLOOR	UMBING GENERAL NOTES, SYMBOLS, AND	$rac{1}{2}$ $rac{$	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR WALL CLEANOUT (WCO) ISOMETRIC DIRECTION ARROW Jun-25-2024 OF OF OF OF OF OF OF OF OF OF
Υ WCO O FCO	CLEANOUT IN RISER CLEANOUT IN FLOOR CLEANOUT IN FLOOR	UMBING GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS	ONSTRUCTION DOCUMENTS	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR WALL CLEANOUT (WCO) ISOMETRIC DIRECTION ARROW Jun-25-2024 OF SEAN ALAN FISCHBACH OF SEAN ALAN FISCHBACH SEAN ALAN FISCHBACH SEAN ALAN FISCHBACH SEAN ALAN FISCHBACH ST. SOULER PLANT FALLS BOILER PLANT 501 W 22nd St, Sioux Falls, SD 57105 Proving Number
Ϋ́ wco O FCO	CLEANOUT IN RISER CLEANOUT IN FLOOR	UMBING GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS	ONSTRUCTION DOCUMENTS	FLOOR OR WALL PENETRATION PLUMBING FIXTURE TRAP FLOOR DRAIN / EQUIPMENT DRAIN WATER HAMMER ARRESTOR WALL CLEANOUT (WCO) ISOMETRIC DIRECTION ARROW JUN-25-2024 USEAN ALAN FISCHBACH SEAN FISCHBACH SEAN ALAN FISCHBACH SEAN FISCHBACH SEAN FISTAN FISCH

<u>V</u>	VENT
S	STORM (ABOVE G
<u>S</u>	STORM (BELOW O
OD	STORM OVERFLO
CW	CITY WATER
CWV	CITY WATER VEN
PCW	PUMPED CITY WA
DCW	DOMESTIC COLD
SCW	SOFTENED DOME
DHW	DOMESTIC HOT W
DHWR	DOMESTIC HOT W
SS	SANITARY SEWER
SS	SANITARY SEWER
SV	SANITARY VENT
COND	CONDENSATE DR
CA	COMPRESSED AI
NG	NATURAL GAS
WOG	WATER, OIL, GAS
IWS	INDUSTRIAL WAT
SALT	SALT FILL
₽ CO	CLEANOUT IN RIS
全 wco	CLEANOUT IN WA
O FCO	CLEANOUT IN FLC



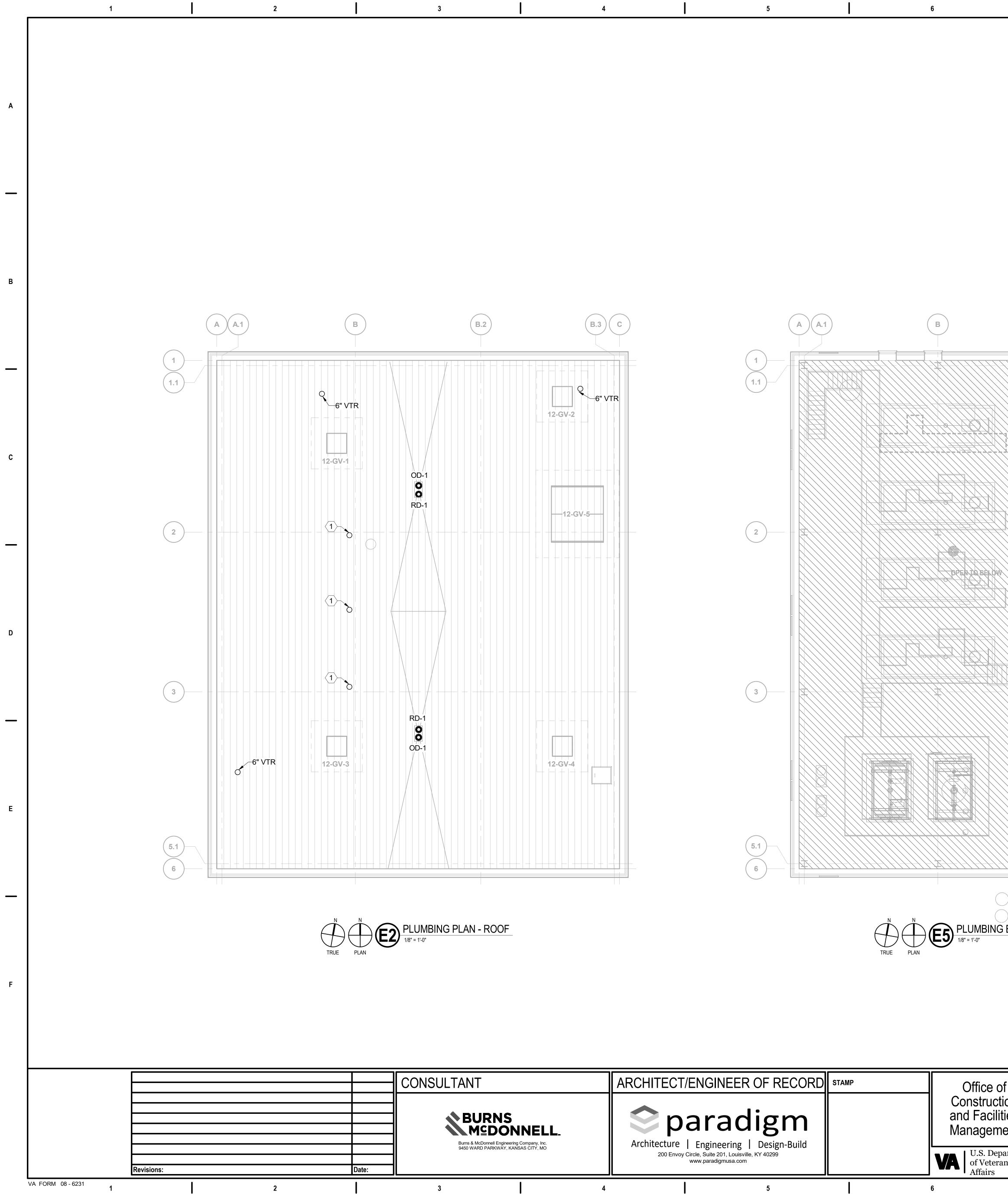
e of ction ilities	Drawing Title PLUMBING GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS	F	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIO	Project Title SIOUX FALLS BOILER	
ment	Approved: Project Director			Location VAMC-Sioux Fall	Location VAMC-Sioux Falls: 2501 W 22nd St,	
Department erans s			FULLY SPRINKLERED	Issue Date 06/25/2024	Checked S. FISCHE	
I	7	8		9		



				DRAWING PLUUU.
			2.	FOR FIXTURE CONNECT FIXTURE SCHEDULE ON
			3.	ALL ITEMS THAT REQUI OPERATING, CLEANING CALIBRATION, SHALL BE PERSONS STANDING AT PERMANENT PLATFORM LADDERS. EXAMPLES ON NOT LIMITED TO: ALL TA STRAINERS, TRANSMIT COMMENCING INSTALLA BETWEEN THIS REQUIR TO THE COR FOR RESO CONTRACTOR TO RESO RESULT IN THE CONTRA ADDITIONAL COST OR T
			4.	ALL INVERT ELEVATION FLOOR = 100'-0".
			<u>K</u>	EYED NOTES: #>
(B.2) (B.3) (C)			1.	CITY WATER ENTRY. RI CONTINUATION.
(B.2) 4" SS I.E.= 97' - 3"	f6" CW	6" CW	2.	CITY WATER LINE TO W DRAWING CU101 FOR P
6" CW UP			6" CW3.	
2" SS UP 4" SS	/ –2" IWS———		4.	STORM WATER BUILDIN
3" SS UP		-2" IWS		CU101 FOR PIPE CONTI
			6.	CU101 FOR PIPE CONTI
TELECOM 2" V UP 114 FD-C WOMENS LOCKER			7.	LINE TIE-IN DETAILS.
4" SS UP MENS LOCKER 106			8.	PIPE CONTINUATION.
SUPERVISOR UNISEX TOILET			0.	AND BELOW FOUNDATION PIPE.
			9.	UP TO TRAP PRIMER. R DRAINS AS SHOWN.
-4" SS UP			10). ROUTE DOMESTIC WAT DRAWING MP101.
			1	1. 4" UP TO TRENCH OUTL
CONTROL 2" V UP			12	2. TO OIL WATER SEPARA FOR PIPE CONTINUATIO
BREAKROOM	•	CITY WATER TANK	1:	3. BLOWDOWN PIT SHALL
	1	6	CITY WAT TANK	4. ROUTE 2" VENT FROM ROUTE 6'-0" ABOVE GRA STRUCTURE. INCLUDE I
	' 			5. CAUSTIC STORAGE TAN
2" IWS UP	, 1		ر ر	
	<u> </u>			
4" SS UP				
4" SS .E.= 97' - 7"				
CENERATOR				
AGE				

of ction	Drawing Title PLUMBING PLANS	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PL	
ilities	Approved: Project Director		Location VAMC-Sioux Falls: 2501 V	W 22nd St, Sid
Department erans s		FULLY SPRINKLERED		Checked S. FISCHBA
	7	8	9	

<u> </u>	<u>NOTE</u> 1.	<u>S:</u> FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SEE DRAWING PL000.	
	2.	FOR FIXTURE CONNECTION SIZES, REFER TO PLUMBING FIXTURE SCHEDULE ON PL600.	
(3.	ALL ITEMS THAT REQUIRE ACCESS, SUCH AS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE BY PERSONS STANDING AT FLOOR LEVEL, OR STANDING ON PERMANENT PLATFORMS, WITHOUT THE USE OF PORTABLE LADDERS. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS AND STRAINERS, TRANSMITTERS, CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION. FAILURE OF THE CONTRACTOR TO RESOLVE, OR POINT OUT ANY ISSUES WILL	A
		RESULT IN THE CONTRACTOR CORRECTING AT NO ADDITIONAL COST OR TIME TO THE GOVERNMENT.	
2	1.	ALL INVERT ELEVATIONS (I.E.) ARE BASED ON FINISHED FLOOR = 100'-0".	
	1. 2.	CITY WATER ENTRY. REFER TO CIVIL DRAWING C104 FOR PIPE CONTINUATION. CITY WATER LINE TO WATER TOWER. REFER TO CIVIL	В
	3.	DRAWING CU101 FOR PIPE CONTINUATION. SOFT WATER LINE TO BUILDING 11. REFER TO PL201 FOR PIPE	
	J. 4.	CONTINUATION. STORM WATER BUILDING EXIT. REFER TO CIVIL DRAWING	
	. 5.	CU101 FOR PIPE CONTINUATION. SANITARY SEWER BUILDING EXIT. REFER TO CIVIL DRAWING	_
	э. 5.	CU101 FOR PIPE CONTINUATION. REFER TO CIVIL DRAWINGS FOR TANK LOCATIONS AND WATER	
	7.	LINE TIE-IN DETAILS. NATURAL GAS ENTRY. REFER TO CIVIL DRAWING CU101 FOR	
-	3.	PIPE CONTINUATION. PROVIDE SLEEVE IN FOUNDATION THAT EXTENDS 6" ABOVE	
ſ	J.	AND BELOW FOUNDATION. SLEEVE SHALL BE 2" LARGER THAN PIPE.	С
ç	9.	UP TO TRAP PRIMER. ROUTE TRAP PRIMER LINES TO FLOOR DRAINS AS SHOWN.	
	10.	ROUTE DOMESTIC WATER TO BLOWDOWN TANK. REFER TO DRAWING MP101.	
	11. 12.	4" UP TO TRENCH OUTLET. TO OIL WATER SEPARATOR. REFER TO CIVIL DRAWING CG101	
	13.	FOR PIPE CONTINUATION. BLOWDOWN PIT SHALL HAVE 6" OUTLET ON FD-E.	
	14.	ROUTE 2" VENT FROM WATER TANKS TO BUILDING WALL. ROUTE 6'-0" ABOVE GRADE AND SUPPORT FROM BUILDING	
بم	~~ 15.	STRUCTURE. INCLUDE RAIN CAP ON VENT LINE.	
Ł	سر	TO PROJECT SPECIFICATIONS 22 67 21.	D
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		Aug-08-2024	_
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		Jost Freekbac	
7	Proje	ect Title Project Number	
		SIOUX FALLS BOILER PLANT 438-22-900 Building Number	
	Loca	tion Drawing Number	
		MC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	
	06/25	S. FISCHBACH J. YOUNG	
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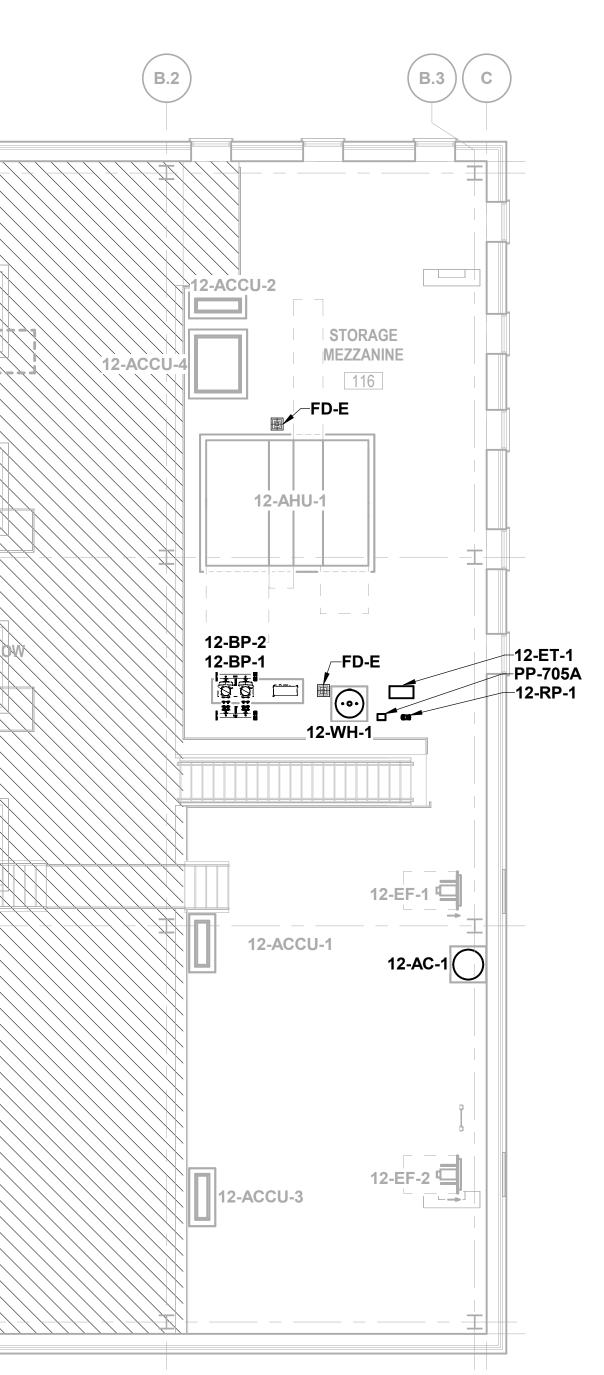


NOTE 1.	<u>S:</u> FOR GENERAL NOTES, DRAWING PL000.
2.	FOR FIXTURE CONNECT FIXTURE SCHEDULE ON
3.	ALL ITEMS THAT REQUI OPERATING, CLEANING CALIBRATION, SHALL B PERSONS STANDING A PERMANENT PLATFORI

ADDITIONAL COST OR TIME TO THE GOVERNMENT.

KEYED NOTES: $\langle \#
angle$

1. BOILER TRAIN GAS VENTS.



PLUMBING EQUIPMENT PLAN - MEZZANINE

	Drawing Title	Phase	Project Title
of ction ilities	PLUMBING PLANS	100% CONSTRUCTION DOCUMENTS	SIOUX FALLS BOILER
ment	Approved: Project Director		Location VAMC-Sioux Falls: 2501 W 22nd St
epartment erans s		FULLY SPRINKLERED	Issue DateChecked06/25/2024S. FISCH
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S, SYMBOLS, AND ABBREVIATIONS SEE

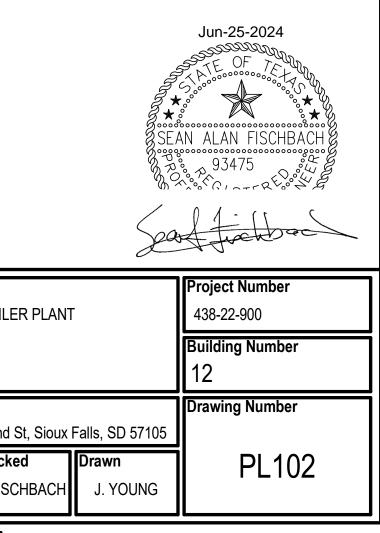
CTION SIZES, REFER TO PLUMBING ON PL600.

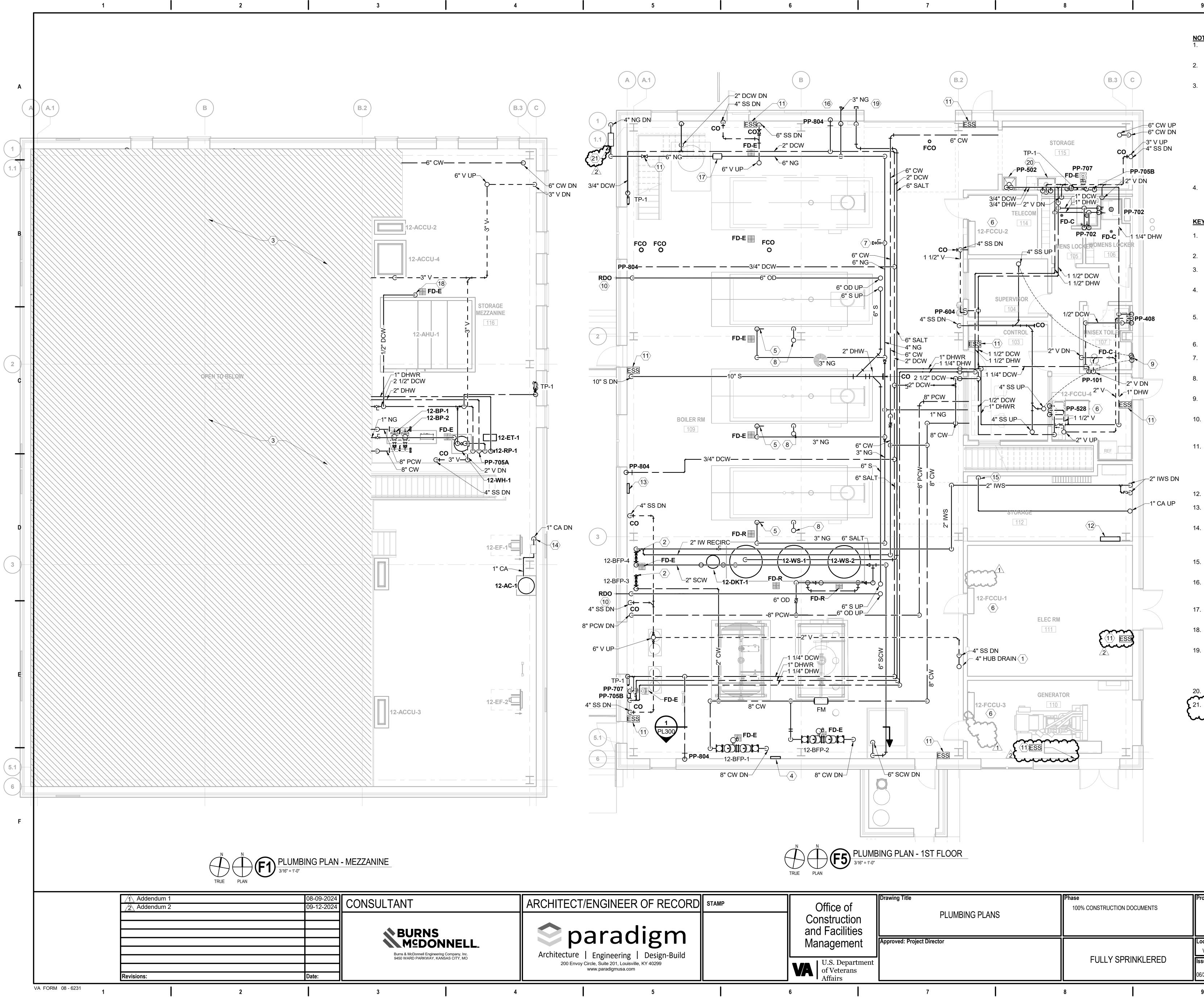
UIRE ACCESS, SUCH AS FOR IG, SERVICING, MAINTENANCE, AND BE EASILY AND SAFELY ACCESSIBLE BY AT FLOOR LEVEL, OR STANDING ON RMS, WITHOUT THE USE OF PORTABLE LADDERS. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS AND STRAINERS, TRANSMITTERS, CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION. FAILURE OF THE CONTRACTOR TO RESOLVE, OR POINT OUT ANY ISSUES WILL RESULT IN THE CONTRACTOR CORRECTING AT NO

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NOTES: FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SEE DRAWING PL000.

- FOR FIXTURE CONNECTION SIZES, REFER TO PLUMBING FIXTURE SCHEDUL
- ALL ITEMS THAT R **OPERATING, CLEA** CALIBRATION, SHA PERSONS STANDI PERMANENT PLAT LADDERS. EXAMPL NOT LIMITED TO: A STRAINERS, TRAN COMMENCING INS **BETWEEN THIS RE** TO THE COR FOR CONTRACTOR TO RESULT IN THE CO ADDITIONAL COST
- PROVIDE ISOLATIO TO ALL PLUMBING **ISOLATION VALVES**

KEYED NOTES: (#)

- PROVIDE HUB DRA MH200 FOR CONDE
- REFER TO MP101 2.
- REFER TO FIRST F SCOPE IN BOILER
- 4. WATER QUALITY M **SPECIFICATION 22** PLUMBING AND PI
- PROVIDE ISOLATIO VERTICAL TO BOIL
- **REFER TO DETAIL** REFER TO MH200 I
- PROVIDE 3" ISOLAT
- CONNECTION. PROVIDE NATURA
- DETAIL 4 ON MP50
- UP TO TRAP PRIM DRAINS AS SHOWI
- MOUNT SECONDA GRADE AND PROVIDE SPLASH BLOCK. COORDINATE FINAL LOCATION WITH ARCHITECTURAL.
- 12. INDUSTRIAL WATER STORAGE TANK CONTROLLER.
- DCW CONNECTION DETAILS.
- REGULATOR STATION. STATIONS WITH ISOLATION VALVES.
- BLIND FLANGE AT EXTERIOR.
- FOR READING. 18. ROUTE DCW TO STEAM COIL PUMP TRAP DRAIN
- FOR MATERIAL SPECIFICATIONS.
- 20. REFER TO ARCHITECTURAL. 21. 3/MP504.

e of Iction Silities	Drawing Title PLUMBING PLANS	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILEF	
ment	Approved: Project Director		Location VAMC-Sioux Falls: 2501 V	N 22nd St,
Department erans s				Checked S. FISCHE
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LE ON PL600.
REQUIRE ACCESS, SUCH AS FOR ANING, SERVICING, MAINTENANCE, AND ALL BE EASILY AND SAFELY ACCESSIBLE BY NG AT FLOOR LEVEL, OR STANDING ON FORMS, WITHOUT THE USE OF PORTABLE LES OF THESE ITEMS INCLUDE, BUT ARE ALL TYPES OF VALVES, FILTERS AND ISMITTERS, CONTROL DEVICES. PRIOR TO TALLATION WORK, REFER CONFLICTS EQUIREMENT AND CONTRACT DOCUMENTS RESOLUTION. FAILURE OF THE RESOLVE, OR POINT OUT ANY ISSUES WILL ONTRACTOR CORRECTING AT NO TOR TIME TO THE GOVERNMENT
ON VALVES ON DCW AND DHW LINE PRIOR FIXTURES. CONTRACTOR TO PLACE S IN AN ACCESSIBLE LOCATION.
AIN FOR CONDENSATE PIPING. REFER TO ENSATE ROUTING.
FOR PIPE CONTINUATION.
FLOOR PLAN ON THIS SHEET FOR ALL ROOM.
MONITORING SYSTEM. REFER TO 2 05 19 METERS AND GAUGES FOR PING.
ON VALVE AT ACCESSIBLE LOCATION IN LER AND ROUTE NG TO BOILER BURNER. 4 ON MP504.
FOR CONDENSATE ROUTING.
TION VALVE AND CAP FOR FUTURE BOILER
L GAS VENTS UP TO ROOF. REFER TO 94.
ER. ROUTE TRAP PRIMER LINES TO FLOOR N.
RY DRAIN OUTLET (RDO) AT 18" ABOVE

11. PROVIDE EMERGENCY GAS SHUT OFF VALVE WITH EMERGENCY STOP BUTTONS AT EACH EXIT FROM THE PLANT. PROTECT BUTTONS FROM ACCIDENTAL ACTIVATION AND PROVIDE SIGNAGE TO IDENTIFY THE PURPOSE. REFER TO SPECIFICATION 23 11 23 SWITCH PUMP ALSO CUT OFF. POWER TO FUEL OIL PUMP (MQ100 AND MP101).

STEAM SAMPLE COOLER STATION. REFER TO MP503 FOR

14. ROUTE 1" COMPRESSED AIR TO FILTER REGULATOR ON WALL THEN ROUTE DOWN TO STORAGE ROOM 112. INCLUDE ISOLATION VALVES AT TANK AND ON EACH SIDE OF FILTER

15. ROUTE 1" COMPRESSED AIR TO TWO QUICK DISCONNECT

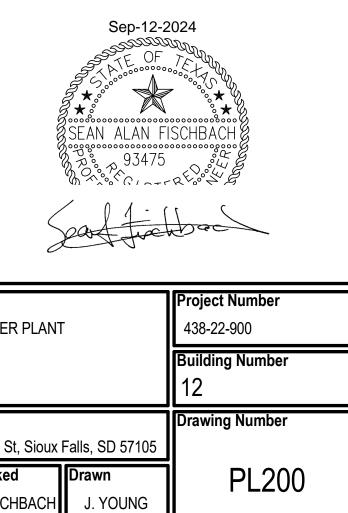
16. PROVIDE 3" NATURAL GAS TO EXTERIOR FOR TEMPORARY BOILER. PROVIDE ISOLATION VALVE INSIDE BUILDING AND

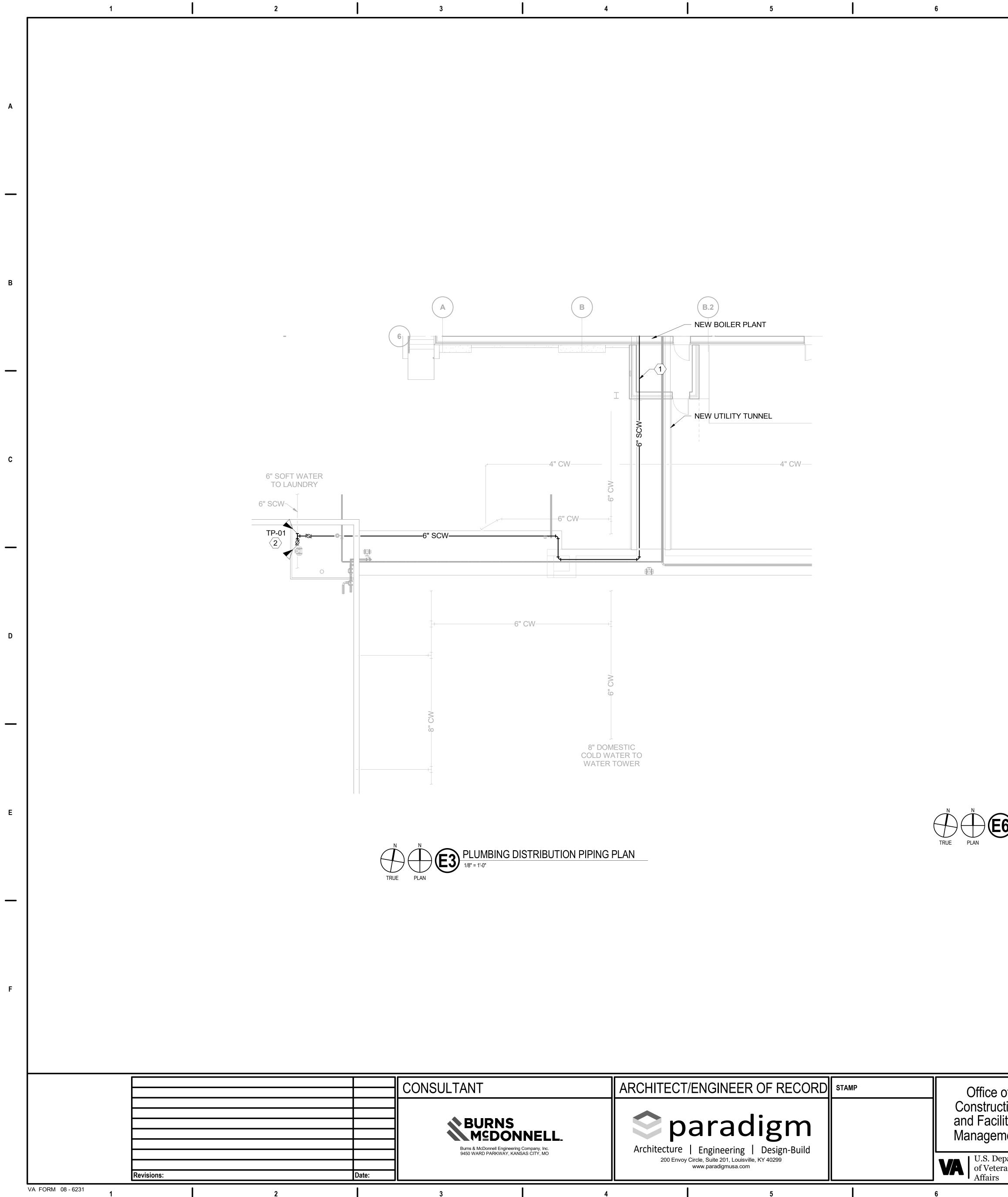
17. PROVIDE NATURAL GAS METER AT A ACCESSIBLE LOCATION

CONDENSATE COOLER. REFER TO 3/MP506.

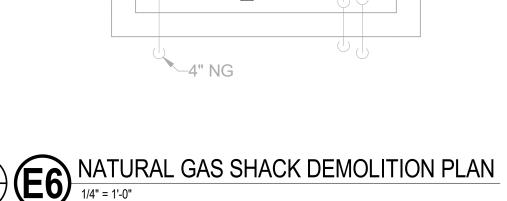
19. ROUTE 6" PVC SALT FILL FROM NORTH WALL TO WATER SOFTENER. INCLUDE THREADED CAP ON EXTERIOR. SEAL WALL PER ARCHITECTURAL REQUIREMENTS. REFER TO PROJECT SPECIFICATION 221400 FACILTY STORM DRAINAGE

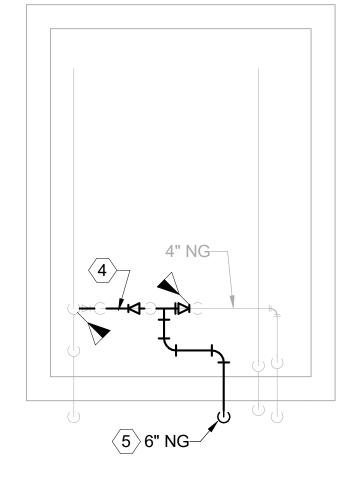
ᡊ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇ᠬ NATURAL GAS REGULATION STATION. REFER TO DETAIL





of ction	Drawing Title PLUMBING DISTRIBUT	ION PIPING PLAN	Phase 100% CONSTRUCTION DOCUMENTS			Project Title SIOUX FALLS I	
ilities ment	Approved: Project Director					Location VAMC-Sioux Fall	ls: 2501 W 22nd S
Department erans s			FUL	LY SPRINKLERE	ED	Issue Date 06/25/2024	Checke S. FISC
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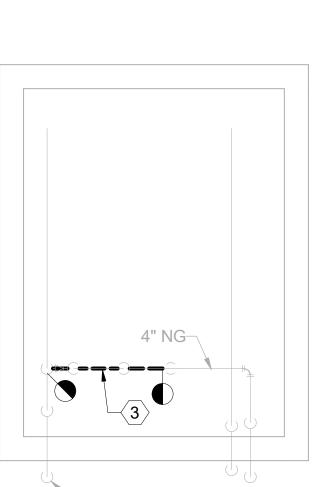




E8 NATURAL GAS SHACK PLAN

TRUE

4" NG-



NOTES: DRAWING PL000.

- HATCHED BOXES.
- 3. NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS AND

<u>KEYED NOTES:</u> $\langle \# angle$

- 1. SEE PL101 FOR CONTINUATION OF PIPING.
- 2. HAS BEEN FULLY COMMISSIONED.
- REMOVE EXISTING NATURAL GAS METER. 3.
- 4. CONTRACTOR INSTALLED.

FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SEE 2. DEMO ANY PIPING, VALVES, AND INSTRUMENTATION WITHIN ALL ITEMS THAT REQUIRE ACCESS, SUCH AS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE BY PERSONS STANDING AT FLOOR LEVEL, OR STANDING ON PERMANENT PLATFORMS, WITHOUT THE USE OF PORTABLE LADDERS. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE

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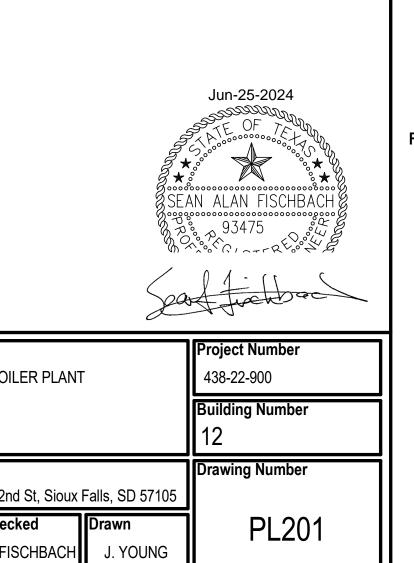
4. FLOW METERS SHOWN ON THIS SHEET SHALL BE LOCATED IN AN ACCESSIBLE LOCATION SO THE OPERATORS CAN TAKE DAILY READINGS. REFER TO AND SPECIFICATION 251010.

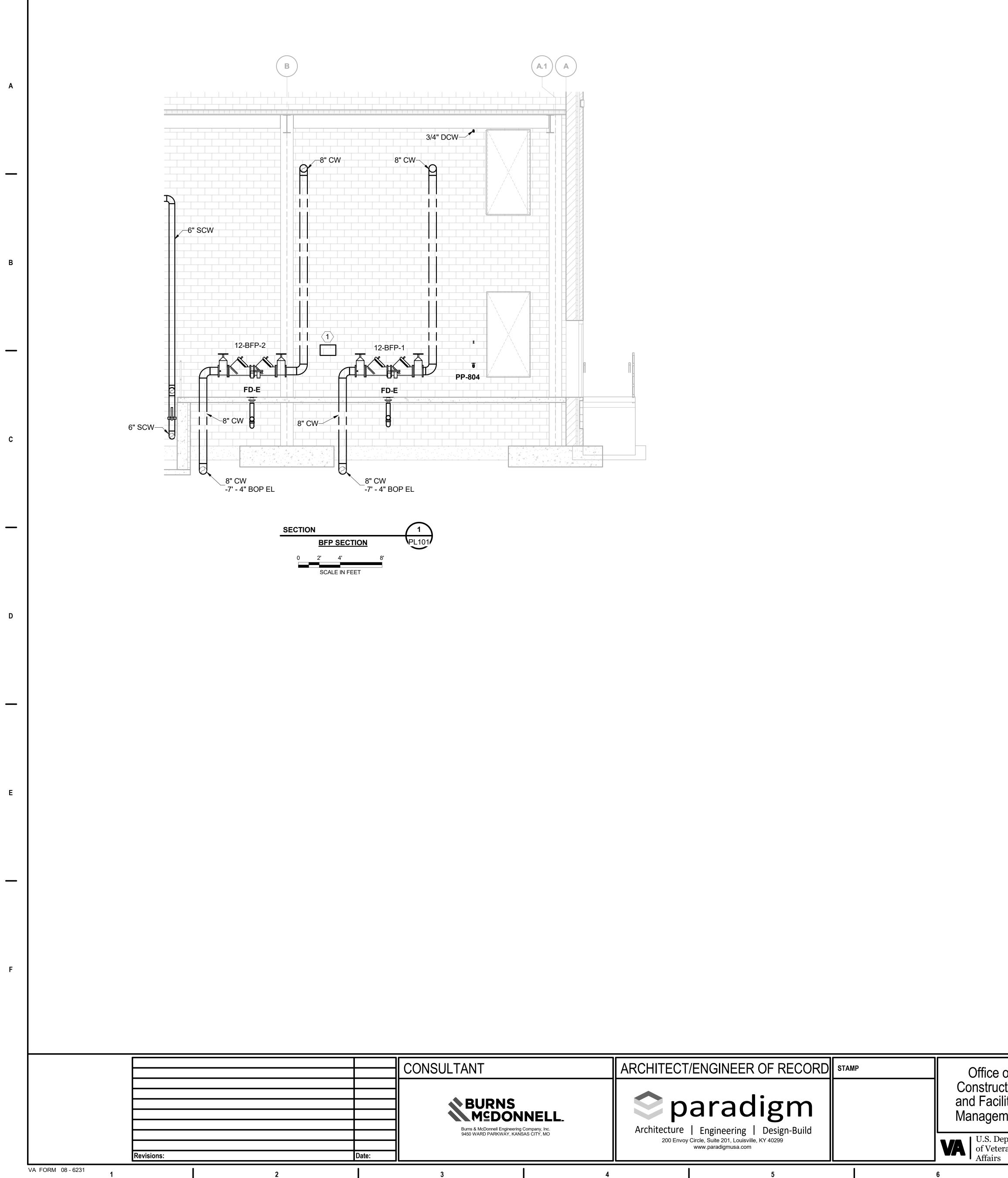
ADD TEE AND VALVE FOR TIE INTO NEW SOFT WATER LINE FROM NEW BOILER PLANT BUILDING 12. MAKE TIE-IN AND SHUT DOWN OLD SYSTEM IN BUILDING 11 ONCE NEW PLANT

NEW NATURAL GAS METER PROVIDED BY MID-AMERICA GAS.

5. PROVIDE 6" NATURAL GAS TIE-IN TO CIVIL. REFER TO CU101.

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					DRAW 2. FOR F FIXTU 3. ALL IT OPER CALIB PERSO PERM LADDE NOT L STRAI COMM BETW TO TH CONTI RESU	SENERAL NOTES, S (ING PL000. TIXTURE CONNECT RE SCHEDULE ON EMS THAT REQUIF ATING, CLEANING, RATION, SHALL BE ONS STANDING AT ANENT PLATFORM ERS. EXAMPLES O IMITED TO: ALL TY NERS, TRANSMITT MENCING INSTALLA EEN THIS REQUIR IE COR FOR RESO RACTOR TO RESO LT IN THE CONTRA TONAL COST OR T
					SPECI	ES: # R QUALITY MONIT FICATION 22 05 19 BING AND PIPING.

of ction ilities	Drawing Title PLUMBING SECTIONS	Phase 1009	% CONSTRUCTION DOCUMENTS	Project Title SIOU	Project Title SIOUX FALLS BOILE	
	Approved: Project Director			Location VAMC-Sioux Fall	s: 2501 W 22nd St,	
epartment erans			FULLY SPRINKLERED	Issue Date 06/25/2024	Checked S. FISCH	
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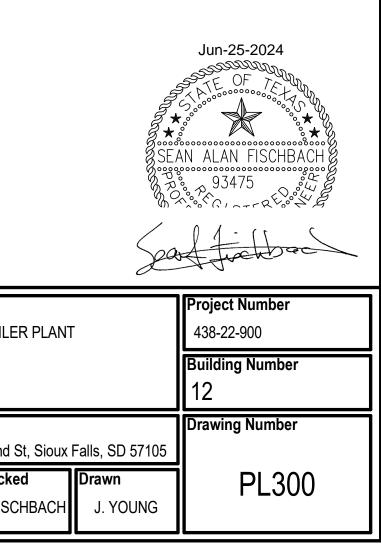
S, SYMBOLS, AND ABBREVIATIONS SEE

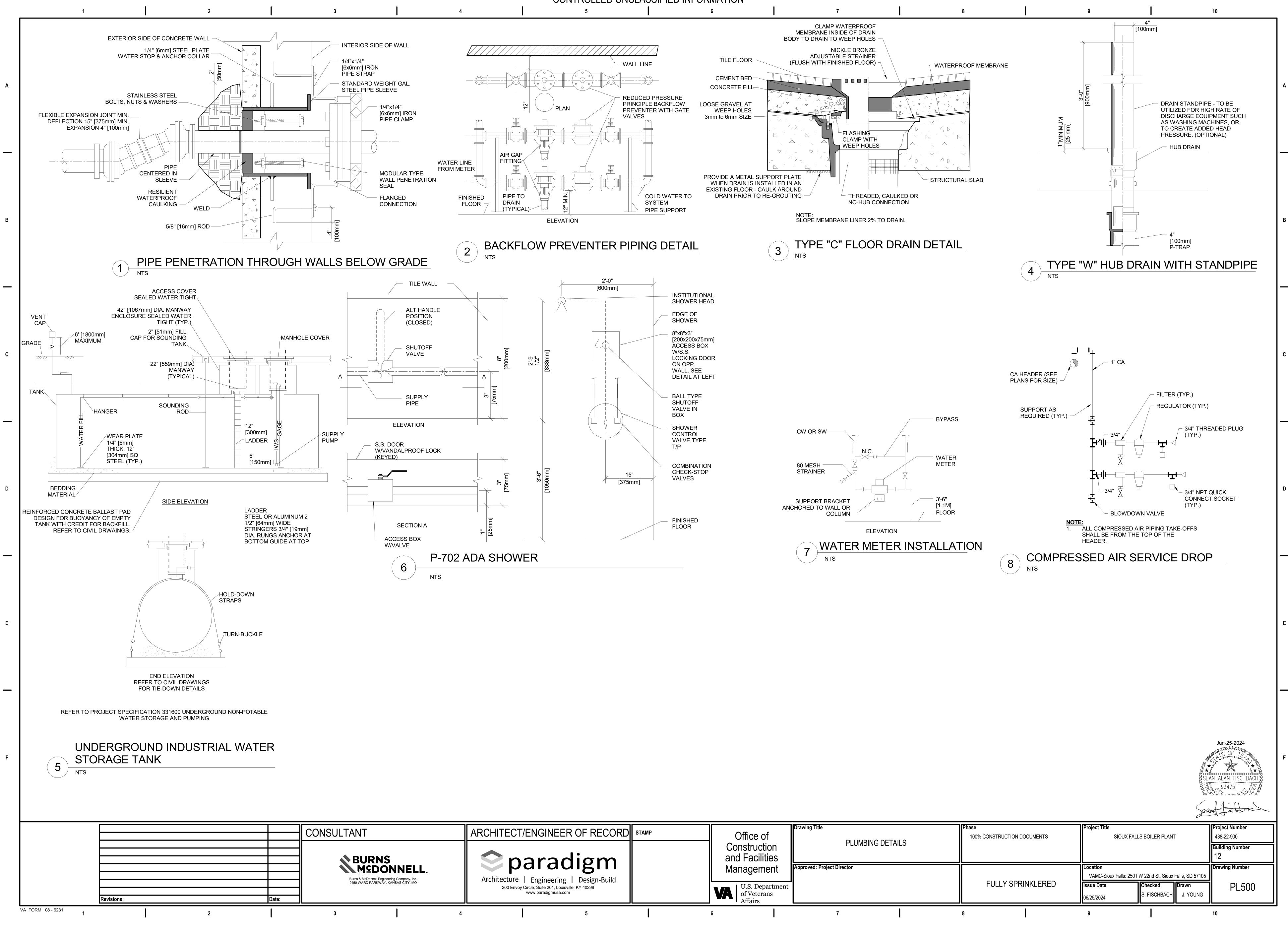
ECTION SIZES, REFER TO PLUMBING ON PL600.

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NITORING SYSTEM. REFER TO 5 19 METERS AND GAUGES FOR

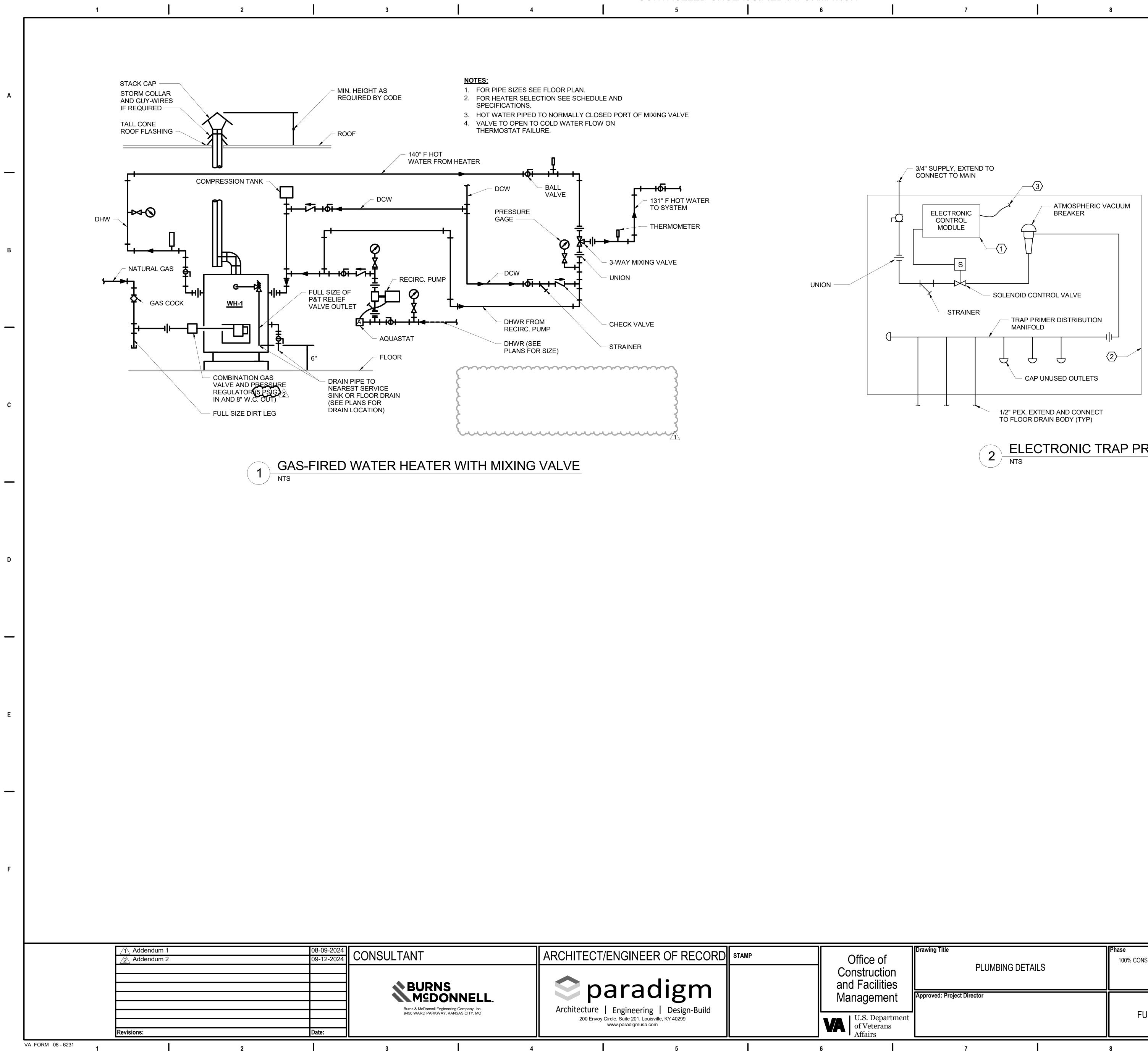


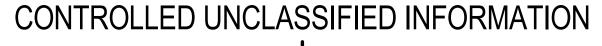


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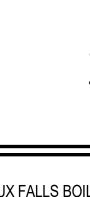
ELEVATION
WATER METER INSTALLATION

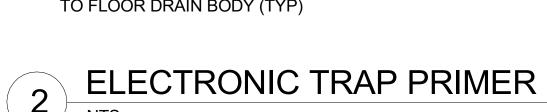
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ment	Approved: Project Director			Location VAMC-Sioux Falls	s: 2501 W 22nd St,
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of ction ilities	Drawing Title PLUMBING DETAILS	ABING DETAILS Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED 8	Project Title SIOUX FALL	S BOILI
ment	Approved: Project Director		Location VAMC-Sioux Falls: 2501 V	W 22nd
epartment erans				Check S. FIS(
	7	8	9	





- FREQUENCY AND DURATION. $\langle 2 \rangle$ Galvanized wall box and cover provided by trap PRIMER MANUFACTURER. 3 POWER CONNECTION, PROVIDED BY OTHERS.
- KEYED NOTES: 1 PROGRAM CONTROL MODULE TO OPEN SOLENOID CONTROL VALVE AT MANUFACTURER'S RECOMMENDED
- TRAP PRIMER DISTRIBUTION PIPING SHALL BE BUBBLE 3 TIGHT AND SEALED.
- 2. EACH OUTLET SHALL BE CONNECTED ONLY TO ONE FLOOR DRAIN OR FLOOR SINK.
- NOTES: 1. INSTALL TRAP PRIMER ASSEMBLY A MINIMUM OF 12" ABOVE FLOOR RIM ELEVATION OF HIGHEST DRAIN CONNECTED.

Sep-12-2024 SEAN ALAN FISCHBACH

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D

TAG LOCATION MER MODEL# SYSTEM AND/OR CAPACITY VALE PRES 12.DKT-1 B12 CILLIGAN CTM-DA SOFT COLD SINGLE 14 60 12.DKT-1 B12 CILLIGAN CTM-DA SOFT COLD SINGLE 14 60 CAPACITY VALE PRES CILLIGAN CTM-DA SOFT COLD SINGLE 14 60 CILLIGAN CTM-DA SOFT COLD SINGLE 14 60 DEVICES CILLIGAN CILLIGAN OFT COLD SINGLE TO SINGLE MEDITY CILLIGAN CILLIGAN DEVICES CILLIGAN DEVICES CILLIGAN DEVICES CILLIGAN SINGLE TO SINGLE TO SINGLE DEVICES DEVICES CILLIGAN DEVICES CILLIGAN DEVIC	[DEALKALI	ZER SCHEDL	ILE		
12.DKT-1 B12 CULLIGAN CTM-DA SOFT COLD SINGLE 14 60 DRAIN SCH MATER CHLORIDE-ANION 14 60				1: SYSTEM AND/O	R	CAP	ACITY	
TAG NO. DESCRIPTION FD-C MEDIUM DUTY (NON-TRAFFIC) FLOOR DRAIN SHALL COMPLY WITH ASME A112.6.3 THE TYPE C CAST IRON BODY, DOUBLE DRAINAGE PATTER, CLMAING DEVICE, LIGHT DUTY NICKEL BRONZE WITH ROUND OR SQUARE GRAT OF 6" WIDTH OR DIAMETER MIN. FOR TOILET ROOMS, SH FD-E HEAVY, CAST IRON BODY, DOUBLE DRAINAGE PATTERN, HEAVY NON TILTING NICKEL BRONZE INCHES SQUARE, REMOVERABLE SEDIMENT BUCKET. CLEARANCE BETWEEN BODY AND BUC FD-R HEAVY, CAST IRON BODY, DOUBLE DRAINAGE PATTERN, HEAVY NON TILTING NICKEL BRONZE INCHES SQUARE, REMOVERABLE SEDIMENT BUCKET. CLEARANCE BETWEEN BODY AND BUC FD-R HEAVY, CAST IRON BODY, DOUBLE DRAINAGE PATTERN, HEAVY NON TILTING NICKEL BRONZE INCHES SQUARE, REMOVERABLE SEDIMENT BUCKET. CLEARANCE BETWEEN BODY AND BUC FD-R HEAVY, CAST IRON BODY, DOUBLE DRAINAGE PATTERN, HEAVY NON TILTING NICKEL BRONZE INCHES SQUARE, REMOVERABLE SEDIMENT BUCKET. CLEARANCE BETWEEN BODY AND BUC FD-R HEAVY, CAST IRON BODY, DOUBLE DRAINAGE PATTERN, HEAVY NON TILTING NICKEL BRONZE INCHES SQUARE, REMOVERABLE SEDIMENT BUCKET. CLEARANCE BETWEEN BODY AND BUC FD-R HEAVY, CAST IRON BODY, DOUBLE DRAINAGE PATTERN, HEAVY NON TILTING NICKEL BRONZE FREE FLOW OF WASTE WATER. EXTRA HEAVY DUTY LOAD CLASSIFICATION DUCTILE IRON C BODY COATED WITH ACID RESISTANT ENAMEL FINISH WITH SECONDARY DOME STRAINERAL (B-1				A SOFT COLD	SING	LE	,	•
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TAG NO.DESCRIPTIONTYPECOIN-LINE CLEANTHREADEDOUT CAPOUT CAPFCOFLOOR CLEANOUTROUND CAST IRON CLEANOUTNOTES:	. FD-E 00		VDOWN PIT IS 6.					
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NOTES:					CO IN-LI O	NE CLEAN UT CAP		READED P
							ROUND CA	ASTIRON
						S PIPE SIZE U	JP TO 4" AI	ND NOT LE
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						S PIPE SIZE U	JP TO 4" AI	ND NOT LE
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VA FORM 08 - 6231

visions:

CONTROLLED UNCLASSIFIED INFORMATION

MIXING VALVE SCHEDULE									
		MAX			COLD WATER	HOT WATER			
	SYSTEM	FLOW	COLD EWT	HOT EWT	CONNECTION SIZE	CONNECTION	TEMPETERED WATER		
TAG NO.	SERVED	(GPM)	(°F)	(°F)	(IN.)	SIZE (IN.)	CONNECTION SIZE	NOTES	
PP-705A	DHW	13	50	140	0.5	0.5	1	1	
PP-705B	DHW	20	50	120	0.5	0.5	1		
NOTES:									
1. MIXING \	/ALVE SHALL E	BE THERMO	STATIC CON	ITROL TYPE	-				

NOTES LKALIZER TANK

		FIXTURE		FIT1
TAG NO.	DESCRIPTION	TYPE	SIZE	TYPE
PP-101	ABA/ADA WATER CLOSET	1.28 GPF, ELONGATED BOWL, FLOOR MOUNT BOTTOM DISCHARGE WHITE VITREOUS CHINA	1-1/2" SPUD	NON-HOLD OPEN ADA APPROVED SI
PP-408	COUNTER MOUNTED LAVATORY	UNDERCOUNTER MOUNTED STAINLESS STEEL	19" DIA.	4" CENTERSET 0.5 GPM FAUCET. SOLID (WITH WASHERLESS CERAMIC DISC MI) CENTRALLY EXPOSED RIGID GOOSEN 127-152 MM (5-6 INCHES) ABOVE RI MILLIMETERS (4-INCH) WRIST BLADE TYP CHROME PLATED WITH A SMOO
PP-502	SQUARE MOP BASIN	PRECAST TERRAZO, MOLDED MARBLE CHIPS AND PORTLAND CEMENT BASIN WITH DROPPED THRESHOLD AND SS SPLASH PANELS	28"X28"X12" DEEP WITH 6" DROP FRONT	WALL-MOUNTED FAUCET, 8" CENTERS, V PAIL HOOK WALL BRACE, AND 3/4 CONNECTION, 36" HOSE, ANI
PP-528	DOUBLE SINK W/ DISPOSAL	DOUBLE BOWL, TYPE 304 18 GA SS, UNDERCOUNTER MOUNTED, WITH SOUND DEADENING	22 1/2" X 18 1/2" X 9" DEEP	SINGLE HOLE FAUCET, 8" SWIVEL SPO HANDLE, AND 1.5 GPN
PP-604	ADA ELECTRIC WATER COOLER	BI-LEVEL, WALL HUNG W-BOTTLE FILLING STATION, BARRIER-FREE UNIT	36" W X 41" H X 19" D	LEAD-FREE BUBBLER WITH FRONT,
PP-702	ADA SHOWER	INTEGRAL FLOOR/SHOWER BASE WITH THERMOSTATIC MIXING SHOWER VALVE	N/A	THERMOSTATIC MIXING VALVE W/IN ADJUSTABLE STOP SCREW, 1.5 GPM FLEXIBLE HOSE, 30" ADJUSTABLE MOU ESCUTCHEO
PP-707	EMERGENCY EYE WASH / SHOWER	DRENCH SHOWER/EYE/FACE WASH COMBINATION	N/A	11" STAINLESS STEEL BOWL WITH FLIF FLOW STAY-OPEN BALL VALVE, 3 GPM E DRENCH SHOW
PP-804	HOSE BIBB	SINGLE FAUCET	N/A	CAST OR WROUGHT COPPER AL

	OUTLET SIZE	TYPE	STRAINER	NOTES
N SHALL HAV A LE STRAINGER KITCHENS.	2"	FLOOR DRAIN - ROUND	7"ø ADJUSTABLE, NICKEL-BRONZE	1,2
e less than 12 E Ample for Be provided.	4"	FLOOR DRAIN - SQUARE	8-1/2" SQUARE, NICKEL-BRONZE	1,2,3
E LESS THAN 12 E AMPLE FOR BE PROVIDED. GRATE, 200mm	4"	FLOOR DRAIN - SQUARE	8-1/2" SQUARE, NICKEL-BRONZE	1,2,3
ASME A 112.6.4. E DRAINAGE	6"	ROOF DRAIN	DOME	
ASME A 112.6.4. E DRAINAGE	6"	OVERFLOW DRAIN	DOME	

						PLU	MBING PUMP S	SCHEDULE									
				BASIS	OF DESIGN:	MAXIMUM	MINIMUM			PUMP		MOTO	R	SPEED	ELECT	FRICAL	
							FLUID TEMP.		```	EFFICIENCY				CONTROL			
TAG NO.	TYPE	LOCATION	SERVICE	MFR	MODEL #	(°F)	(°F)	(GPM)	W.C.)	%	RPM	HP	TYPE	TYPE	VOLTS	PHASE	NOTES
12-RP-1	IN-LINE CENTRIFUGAL	MEZZANINE	DOMESTIC HOT WATER RETURN	GRUNFOS	HYDRO MPC E	120	50	25	15.00	57.7	1750	0.5	TEFC	CONSTANT	230	1	1,2,4
12-BP-1	VERTICAL CENTRIFUGAL	MEZZANINE	DOMESTIC COLD WATER	GRUNFOS	HYDRO MPC E	68	50	222	140.00	74	3600	15	TEFC	VARIABLE	480	3	1,2,3
12-BP-2	VERTICAL CENTRIFUGAL	MEZZANINE	DOMESTIC COLD WATER	GRUNFOS	MANGA1 25-40	68	50	222	140.00	74	3600	15	TEFC	VARIABLE	480	3	1,2,3
NOTES:	TING FLUID IS WA																

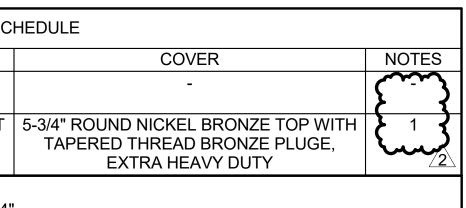
1. LOPERATING FLUID IS WATER.

MOUNT ON 6" TALL CONCRETE EQUIPMENT PAD. 3. NPSHR SHALL BE A MAXIMUM OF [10 FT.] WC.

4.	HP IN (W) (HP = HORSEPOWER)	

						EXP	ANSION TANK SC	HEDULE			
		BASIS O	F DESIGN:	_			MIN. TANK VOLUME	MIN. TANK ACCEPTANCE VOLUME	RELIEF VALVE SETPOINT	DESIGN TEMP.	MAX. WORKI PRESS.
TAG NO	TYPE	MFR	MODEL #	ORIENTATION	LOCATION	SYSTEM	(GAL)	(GAL)	(PSI)	(°F)	(PSI)
12-ET-1	DIAPHRAM	XHLEM	PTA-5	IN-LINE	MEZZANINE	DOMESTIC HOT WATER	3	2.1	60	140	150
NOTES: 1. TANK	SHALL BE PRO	OVIDED WIT	⁻ H (4) [FLANC	GED] [THREADED) [STUDDED] 4" CON	INECTIONS.					

OR PLANS.



						DOME	STIC WATER HEATER SC	HEDULE (WH)			
		BASIS OF	F DESIGN								FUEL
TAG NO.	TYPE	MFR	MODEL #	LOCATION	SERVICE	CAPACITY (GAL)	RECOVERY (GAL/HR AT 90 DEG F.)	TIME TO RECOVER CONTENTS, MINUTES (°F)	HEATING SOURCE	RELIEF VALVE SETTTING (PSIG)	INLET PRESSURE (IN W.C.)
12-WH-1	TANK	AO SMITH	BTH-250(A)	MEZZANINE	DOMESTIC HOT WATER	100	323	19	NATURAL GAS	TBD	14

1. PROVIDE WITH GAS PRESSURE REGULATING VALVE AND CONCENTRIC TERMINAL KIT FOR VENTING THROUGH WALL.

								WATER SOFTENE	ER SCHEDULE								
MARK	LOCATION	SYSTEM	BASIS OF	DESIGN	TYPE	INCOMING WATER	CONTINUOUS FLOW RATE		INLET PRESSURE (PSIG)	BACK WASH FLOW	SALT DOSAGE	TANK SIZE DIA (IN)	SALT CAPACITY OF		ELECTRICAL		RE
	LOOMIN	OTOTEM	MFR	MODEL #		HARDNESS (PPM)	(GPM)	(GPM)		RATE (GPM)	(LBS/CUFT)		BRINE TANK (LBS)	AMP	PHASE	VOLT	
-WS-1	FIRST FLOOR	SOFT WATER	CULLIGAN	HS-2004	ION EXCHANGE	245	240	400	[100]	90	15	60	5700	60 HZ	1	120	
-WS-2	FIRST FLOOR	SOFT WATER	CULLIGAN	HS-2004	ION EXCHANGE	245	240	400	[100]	90	15	60	5700	60 HZ	1	120	

	AIR COMPRESSOR SCHEDULE																
			BASIS OF DE	SIGN:			INLET	DISCHARGE		RECEIVER	E	LECT	RICAL PO	WER			
TAG		AREA AND/OR			SYSTEM AND/OR		AIRFLOW	PRESSURE	RECEIVER	DIM, DIA X	NO.					OPER	
	LOCATION	BLDG SERVED	MFR	MODEL #	SERVICE	TYPE	(CFM)	(PSIG)	SIZE (GAL)	Н	MOTORS	HP	PHASE	VOLT	RPM	WEIGHT	NOTES
12-AC-1	MEZZ	TOOL ROOM	INGERSOL RAND	SS5L5	COMPRESSED AIR	OILLESS RECIP	18.1	100	60	71 x 30	1	5	1	230	1750	455	

NT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of	Drawing Title	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOI	ILER P
BURNS	paradigm		Construction and Facilities	PLUMBING SCHEDULES			
MCDONNELL. s & McDonnell Engineering Company, Inc.	Architecture Engineering Design-Build		Management	Approved: Project Director		Location VAMC-Sioux Falls: 2501 W 22n	ıd St, S
) WARD PARKWĀY, KANSAS ĊITÝ, MO	200 Envoy Circle, Suite 201, Louisville, KY 40299 www.paradigmusa.com		U.S. Department of Veterans Affairs		FULLY SPRINKLERED	Issue Date 06/25/2024	
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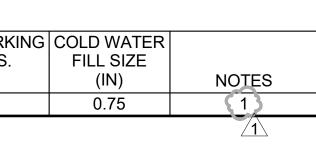
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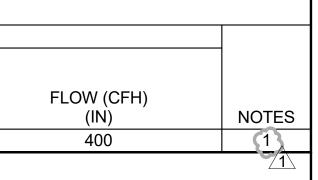
				E	ACKFLOW PR	EVENTER SCHEDULE			
TAG NO.	TYPE	LOCATION	SYSTEM	SIZE	DESIGN FLOW (GPM)	PRESSURE LOSS AT DESIGN FLOW RATE (PSIG)	PRESSURE LOSS THRU MIDDLE 1/3 OF FLOW RANGE (PSIG)	SELECTED UNIT FLOW RANGE LIMIT (GPM)	NOTE
12-BFP-1	RPZ	BOILER ROOM 100	DOMESTIC WATER	8"	72	10.00			1
12-BFP-2	RPZ	BOILER ROOM 100	DOMESTIC WATER	8"	72	10.00			1
12-BFP-3	RPZ	BOILER ROOM 100	DOMESTIC WATER	2"	53	10.00			(1)
12-BFP-4	RPZ	BOILER ROOM 100	DOMESTIC WATER	2"	53	10.00			

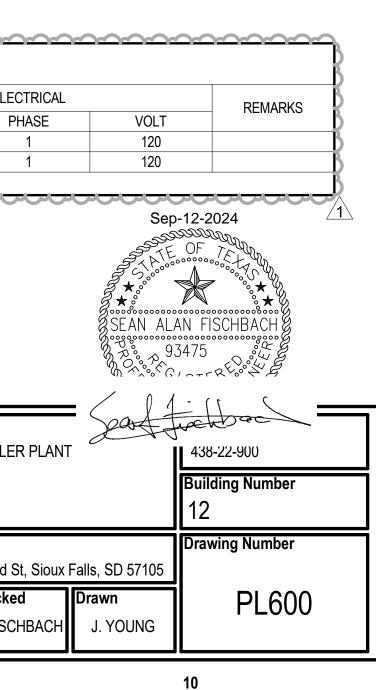
1. PROVIDE WITH AIR GAP FITTING AND DRAIN PIPING FROM BACKFLOW PREVENTER TO DRAIN.

PLUMBING FIXTURE SCHEDULE ITTING MOUNTING HEIGHT C.W. CARRIER REMARKS SUPPLY TRAP 1" INTEGRAL PROVIDE SOLID PLASTIC, OPEN FRONT RIM 17" AFF SIDE OSCILLATING HANDLE WATER CLOSET SEAT (LESS COVER) CARRIER D CAST BRASS CONSTRUCTION 1/2" N/A PROVIDE WITH OVERFLOW HT. SET BY 2" MIXING CARTRIDGE TYPE AND W/CLEAN COUNTERTOP SENECK SPOUT WITH OUTLET OUT PLUG ACCESSIBLE RIM. ONE HUNDRED TWO YPE HANDLES ON FAUCETS BE 100TH BRIGHT FINISH. , VACCUUM BREAKER SPOUT, INTEGRAL CORROSION-RESISTANT METAL FAUCET: 36" AFF & 3/4" 3/4" 3" N/A 3/4" MALE THREAD HOSE DRAIN WITH REMOVABLE STRAINER AND 3" BASIN - FLOOR AND SS WALL HOOK BOTTOM OUTLET MOUNTED SPOUT, SINGLE METAL LEVER HT. SET BY PROVIDE SS BASKET STRAINER AND 1/2 1/2" 1-1/2" N/A PM AERATOR HP, 120V GARBAGE DISPOSAL, COUNTER TOP **INSINKERATOR BADGER 5** F, EASY TOUCH CONTROLS ORIFICE HT. 40" AFF 1/2" 3/8" OD 1-1/2" N/A STAINLESS STEEL & ACCESSIBLE ORIFICE HT. 34" AFF /INTEGRAL SERVICE STOPS, HEAD: 75" AFF & 1/2" PROVIDE CAST IRON DRAIN WITH TWO 2" N/A PM HAND SHOWER HEAD, 60" CONTROL VALVE 48" PIECE BODY, INTEGRAL CLAMPING MOUNTING BAR, FLANGE, AND COLLAR, AND STAINLESS STEEL DRAIN AFF STRAINER PLATE ΟN LIP TOP SPRAY HEADS, FULL FLOOR MOUNTED, PROVIDE WITH 1-1/4" N/A N/A N/A M EYE/FACE WASH AND 20 GPM **OPTIONAL HORN AND STOBE &** WER EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE ALLOY, SINGLE FAUCET WALL MOUNTED, HOSE COUPLING THREAD 36" ABOVE FLOOR 1/2" 1/2" N/A N/A ON SPOUT AND VACUUM BREAKER

	CONNEC	TION SIZE	
C.W.	H.W.	WASTE	VENT
1-1/4"	N/A	4"	2"
1/2"	1/2"	2"	1-1/2"
3/4"	3/4"	3"	1-1/2"
1/2"	1/2"	2	1-1/2"
1/2"	N/A	1-1/2"	1-1/4"
1/2"	1/2"	2"	1-1/2"
1-1/4" *	N/A	N/A	N/A
1/2"	1/2"	N/A	N/A



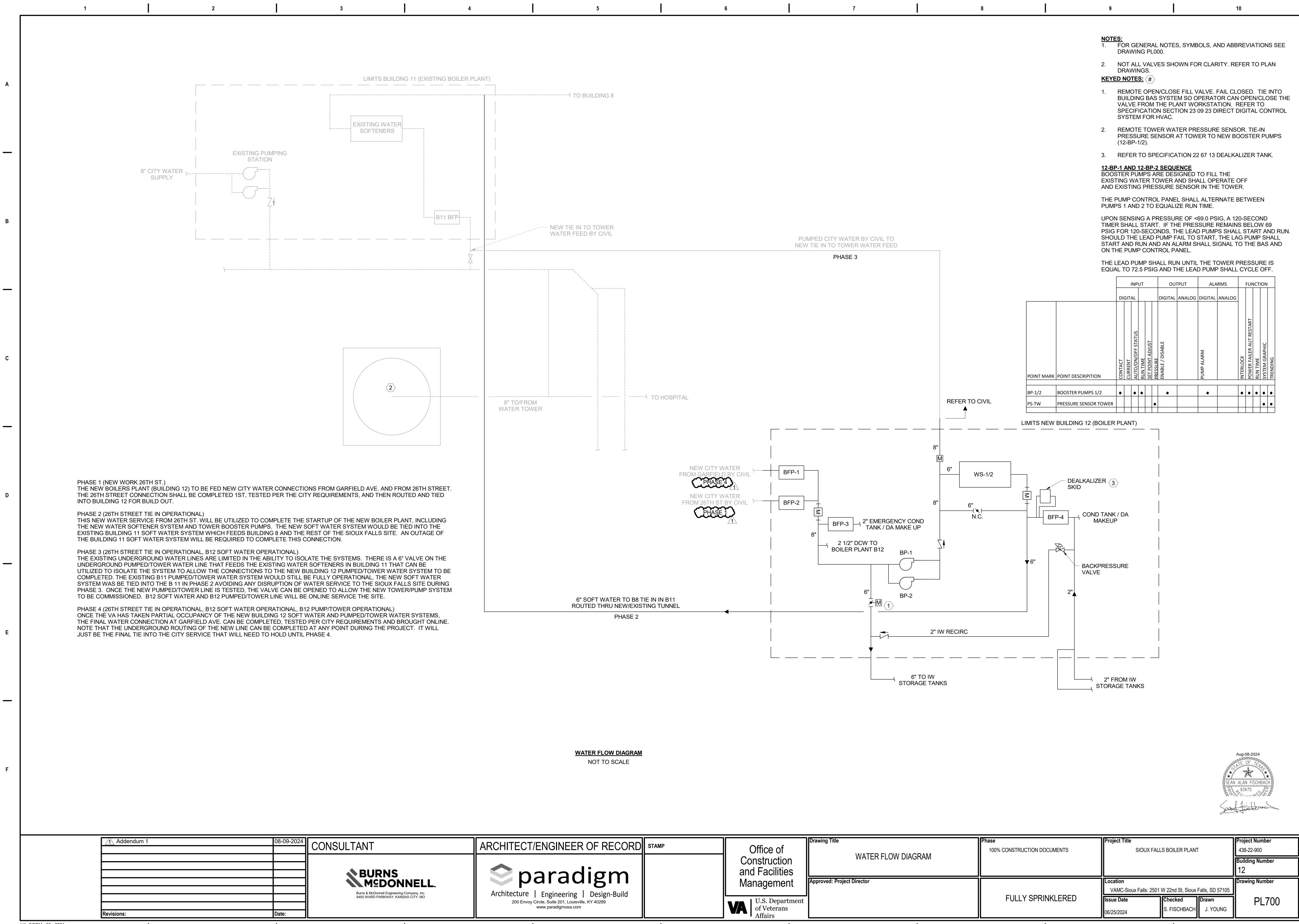




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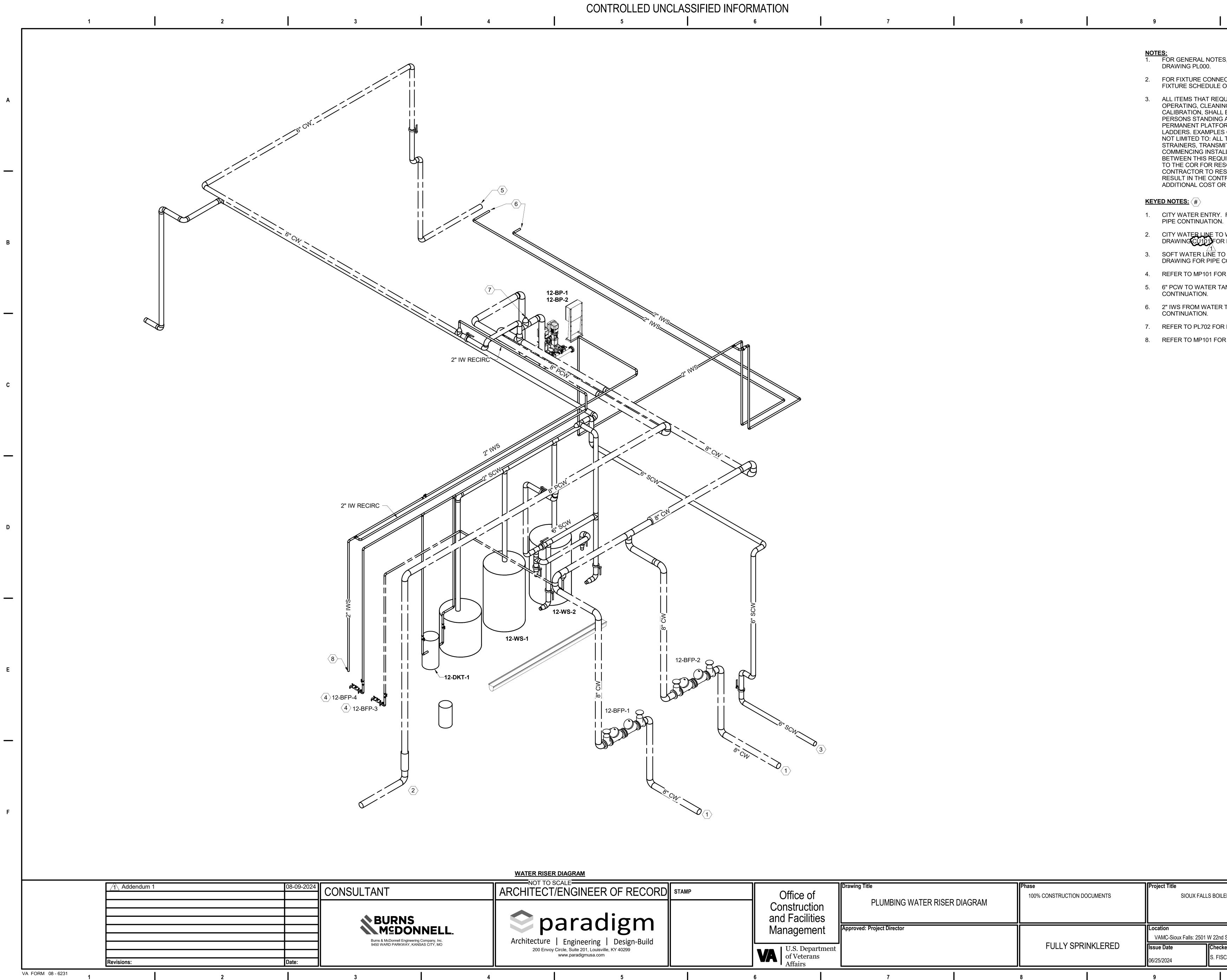
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	Drawing Title		Ph	nase		Project Title	
e of Iction cilities	WATER FLOW	DIAGRAM		100% CONSTRUCTION	I DOCUMENTS	SIC	OUX FALLS BOILER
ment	Approved: Project Director					Location VAMC-Sioux Fa	alls: 2501 W 22nd St,
Department erans s				FULLY SP	RINKLERED	Issue Date 06/25/2024	Checked S. FISCH
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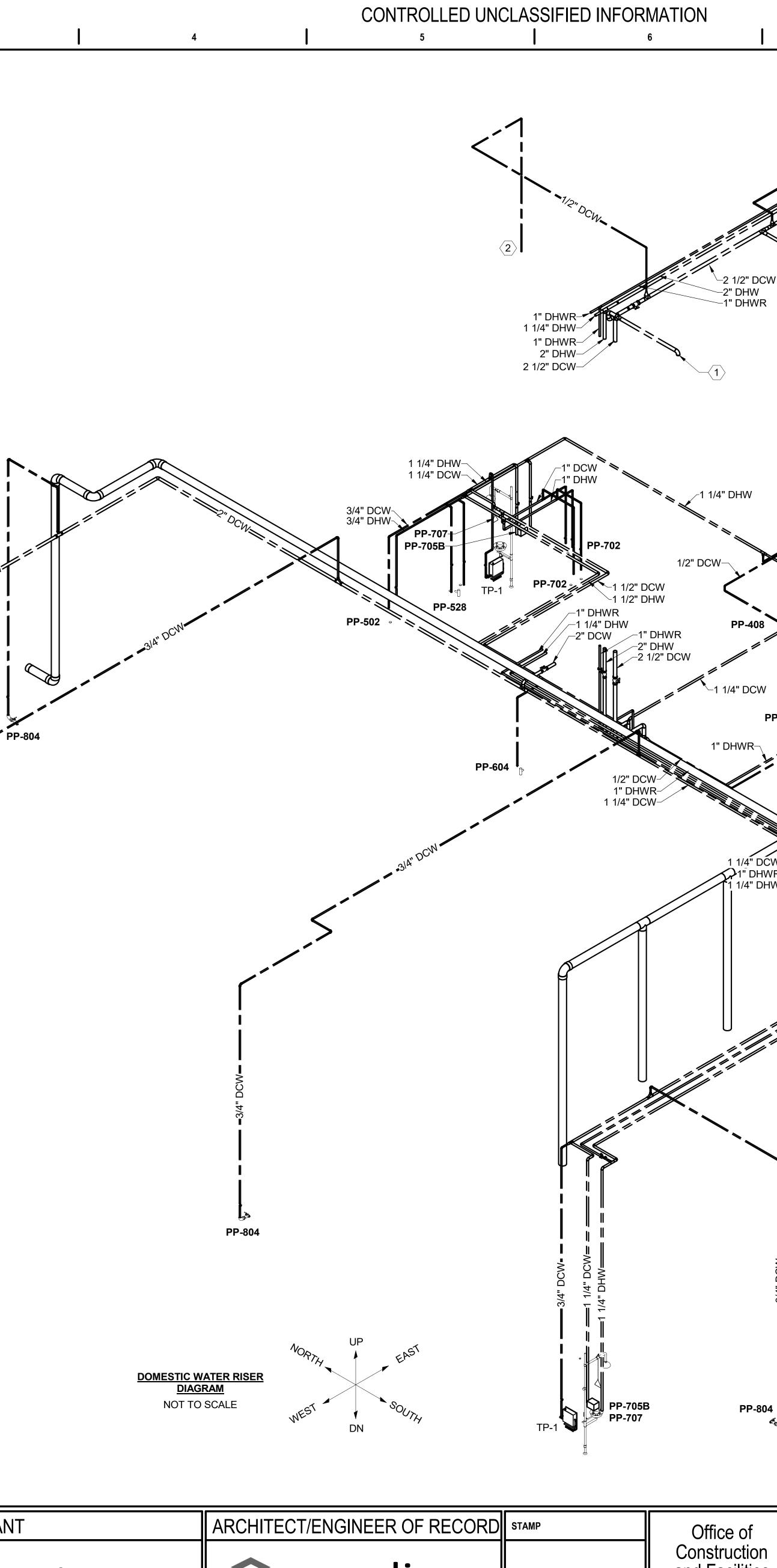
PUT	ALA	RMS		FUN	Т	ION	
ANALOG	DIGITAL	ANALOG					
	PUMP ALARM		INTERLOCK	POWER FAILER AUT RESTART	RUN TIME	SYSTEM GRAPHIC	TRENDING
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			-	-	-	•	•
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					DRAY 2. FOR FIXT 3. ALL I OPEI CALI PERS PERI	WING PL000. FIXTURE CONNEC URE SCHEDULE ON ITEMS THAT REQUI RATING, CLEANING BRATION, SHALL B SONS STANDING A MANENT PLATFORM	SYMBOLS, AND ABBREVIATIONS SEE TION SIZES, REFER TO PLUMBING N PL600. RE ACCESS, SUCH AS FOR G, SERVICING, MAINTENANCE, AND E EASILY AND SAFELY ACCESSIBLE BY T FLOOR LEVEL, OR STANDING ON MS, WITHOUT THE USE OF PORTABLE OF THESE ITEMS INCLUDE, BUT ARE
					NOT STR/ COM BET\ TO T CON RESI	LIMITED TO: ALL T AINERS, TRANSMIT IMENCING INSTALL WEEN THIS REQUIF THE COR FOR RESC TRACTOR TO RESC ULT IN THE CONTR ITIONAL COST OR T	YPES OF VALVES, FILTERS AND TERS, CONTROL DEVICES. PRIOR TO ATION WORK, REFER CONFLICTS REMENT AND CONTRACT DOCUMENTS OLUTION. FAILURE OF THE DLVE, OR POINT OUT ANY ISSUES WILL ACTOR CORRECTING AT NO TIME TO THE GOVERNMENT.
						WATER ENTRY. R CONTINUATION.	EFER TO CIVIL DRAWING CU101 FOR
							ATER TOWER. REFER TO CIVIL PIPE CONTINUATION.
						T WATER LINE TO E WING FOR PIPE CC	BUILDING 11. REFER TO PL201 INTINUATION.
					4. REFE	ER TO MP101 FOR F	PIPE CONTINUATION.
						CW TO WATER TAN TINUATION.	KS. REFER TO PL101 FOR
						/S FROM WATER TA TINUATION.	ANKS. REFER TO PL101 FOR
					7 REF		

ATER TANKS. REFER TO PL101 FOR			
2 FOR PIPE CONTINUATION	N.		
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S BOILER PLANT	Project Number 438-22-900 Building Number 12		
N 22nd St, Sioux Falls, SD 57105	Drawing Number		
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l	7	8	9		10
1/2" DCW DHW DHWR 12-W	TP-1 12-ET-1 12-RP-1 PP-705A		NOT 1. 2. 3.	FOR GENERAL NOTES DRAWING PL000. FOR FIXTURE CONNECT FIXTURE SCHEDULE CONNECT ALL ITEMS THAT REQUE OPERATING, CLEANING CALIBRATION, SHALL PERSONS STANDING PERMANENT PLATFOR LADDERS. EXAMPLES NOT LIMITED TO: ALL STRAINERS, TRANSMIC COMMENCING INSTAL BETWEEN THIS REQUE TO THE COR FOR RES CONTRACTOR TO RES RESULT IN THE CONT ADDITIONAL COST OF PROVIDE ISOLATION OF	S, SYMBOLS, AND ABBREVIATIONS SEE CTION SIZES, REFER TO PLUMBING DN PL600. UIRE ACCESS, SUCH AS FOR NG, SERVICING, MAINTENANCE, AND BE EASILY AND SAFELY ACCESSIBLE BY AT FLOOR LEVEL, OR STANDING ON RMS, WITHOUT THE USE OF PORTABLE OF THESE ITEMS INCLUDE, BUT ARE TYPES OF VALVES, FILTERS AND ITTERS, CONTROL DEVICES. PRIOR TO LATION WORK, REFER CONFLICTS UREMENT AND CONTRACT DOCUMENTS SOLUTION. FAILURE OF THE SOLVE, OR POINT OUT ANY ISSUES WILL RACTOR CORRECTING AT NO R TIME TO THE GOVERNMENT. VALVES ON DCW AND DHW LINE PRIOR CTURES. CONTRACTOR TO PLACE A N ACCESSIBLE LOCATION.
			1	ED NOTES: # REFER TO PL700 FOR	
			2.		M COIL PUMP TRAP DRAIN CONDENSATE

—1" DHW

PP-528

─1 1/4" DCW ─1" DHWR ─1 1/4" DHW

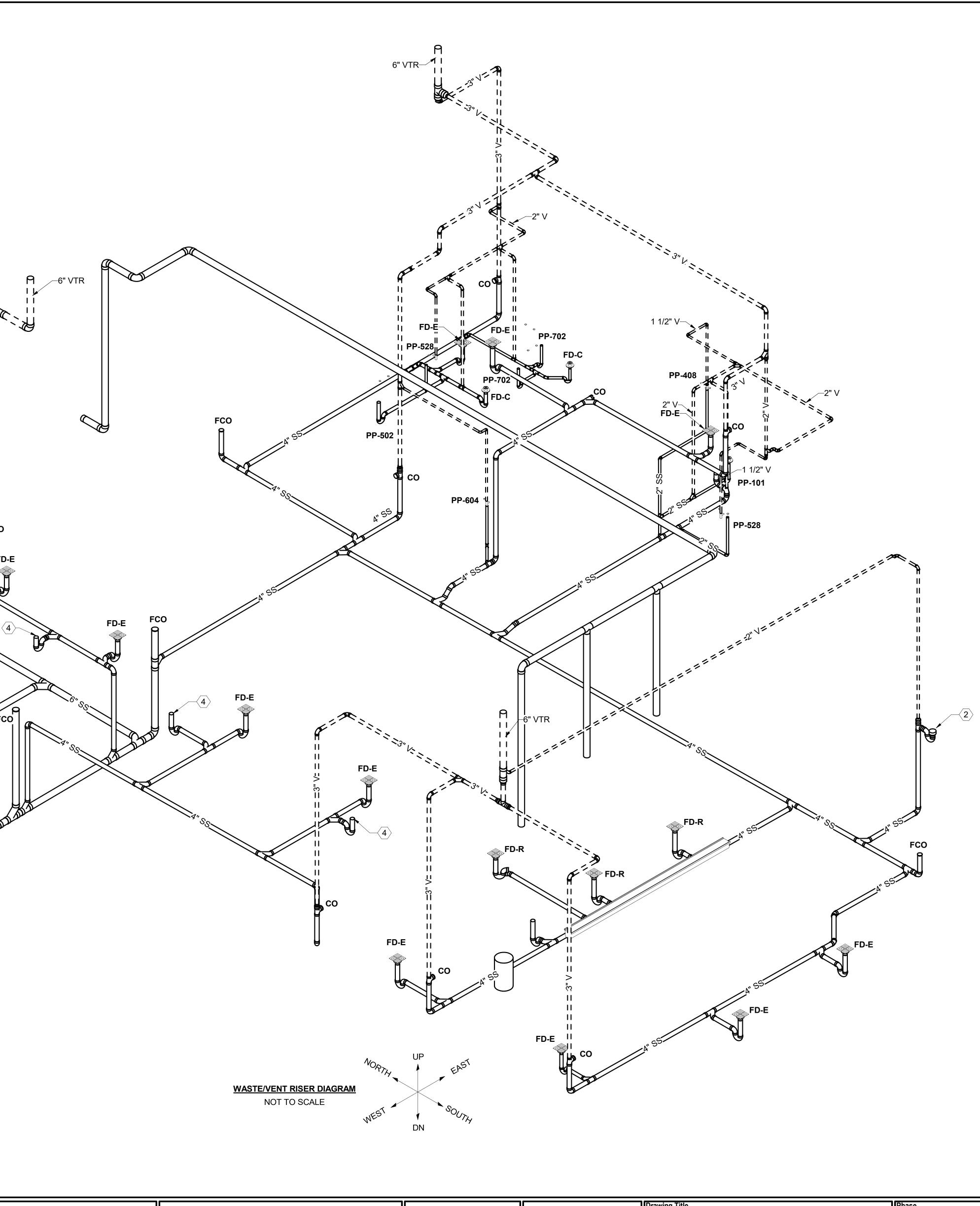
	Drawing Title	Phase	Project Title	
of ction ilities ment	PLUMBING DOMESTIC WATER RISER DIAGRAM	100% CONSTRUCTION DOCUMENTS	SIOUX FALLS BC	ILER I
	Approved: Project Director		Location VAMC-Sioux Falls: 2501 W 22	nd St,
Department erans s		FULLY SPRINKLERED		ecked FISCHE
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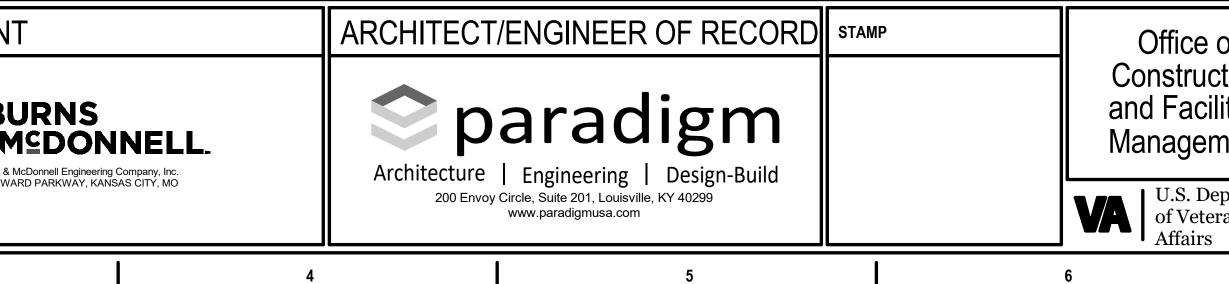
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ER PLANT 438-22-900 Building Number	
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I St, Sioux Falls, SD 57105 Ked Drawn J. YOUNG PL702	
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		Revisions:		Date:	
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NOTE	-S:
1.	FOR GENERAL NOTES DRAWING PL000.
2.	FOR FIXTURE CONNE
3.	ALL ITEMS THAT REQ OPERATING, CLEANIN CALIBRATION, SHALL PERSONS STANDING PERMANENT PLATFO LADDERS. EXAMPLES NOT LIMITED TO: ALL STRAINERS, TRANSM COMMENCING INSTAI BETWEEN THIS REQU TO THE COR FOR RES CONTRACTOR TO RES

KEYED NOTES: (#)

- 2.
- HUB DRAIN.
- 4. 4" UP TO TRENCH OUTLET.

	Drawing Title	Phase	Project Title
e of iction cilities ement	PLUMBING WASTE/VENT RISER DIAGRAM	100% CONSTRUCTION DOCUMENTS	SIOUX FALLS BOILER
	Approved: Project Director		Location VAMC-Sioux Falls: 2501 W 22nd S
Department		FULLY SPRINKLERED	Issue Date Checke
erans s			06/25/2024 S. FISC
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TES, SYMBOLS, AND ABBREVIATIONS SEE

NECTION SIZES, REFER TO PLUMBING LE ON PL600.

EQUIRE ACCESS, SUCH AS FOR NING, SERVICING, MAINTENANCE, AND LL BE EASILY AND SAFELY ACCESSIBLE BY NG AT FLOOR LEVEL, OR STANDING ON FORMS, WITHOUT THE USE OF PORTABLE ES OF THESE ITEMS INCLUDE, BUT ARE LL TYPES OF VALVES, FILTERS AND SMITTERS, CONTROL DEVICES. PRIOR TO ALLATION WORK, REFER CONFLICTS QUIREMENT AND CONTRACT DOCUMENTS RESOLUTION. FAILURE OF THE CONTRACTOR TO RESOLVE, OR POINT OUT ANY ISSUES WILL RESULT IN THE CONTRACTOR CORRECTING AT NO ADDITIONAL COST OR TIME TO THE GOVERNMENT.

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1. SANITARY SEWER BUILDING EXIT. REFER TO CIVIL DRAWING CU101 FOR PIPE CONTINUATION.

PROVIDE HUB DRAIN. ROUTE UNIT CONDENSATE DRAIN TO

3. BLOWDOWN PIT SHALL HAVE 6" OUTLET ON FD-E.

