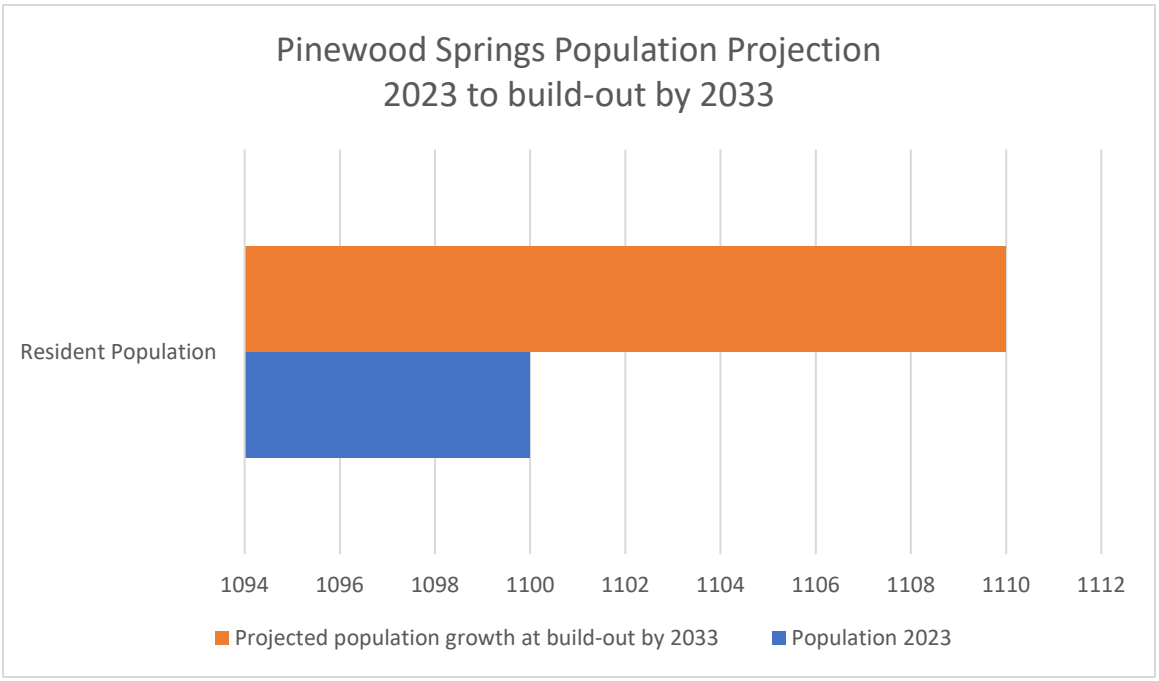
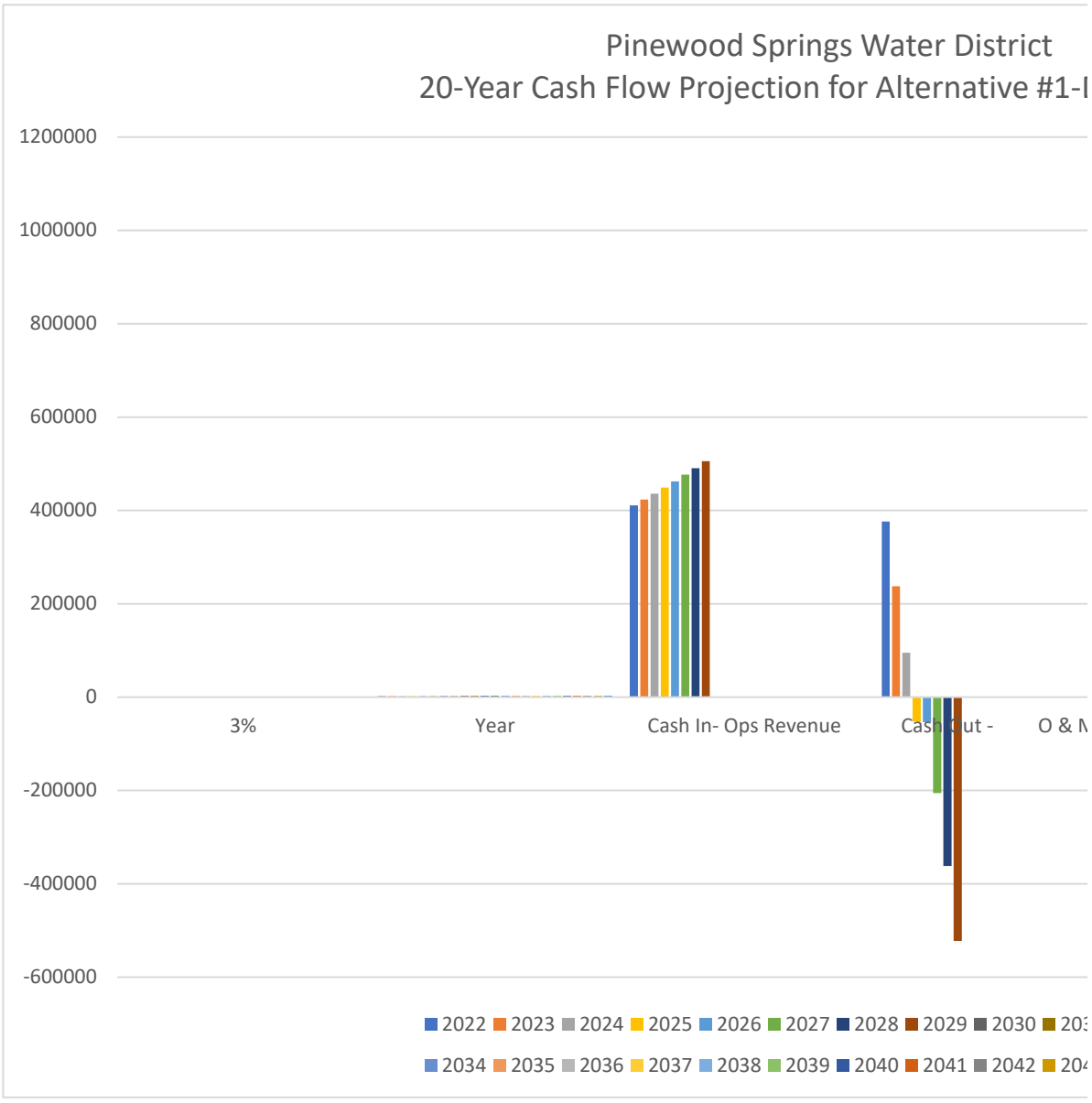
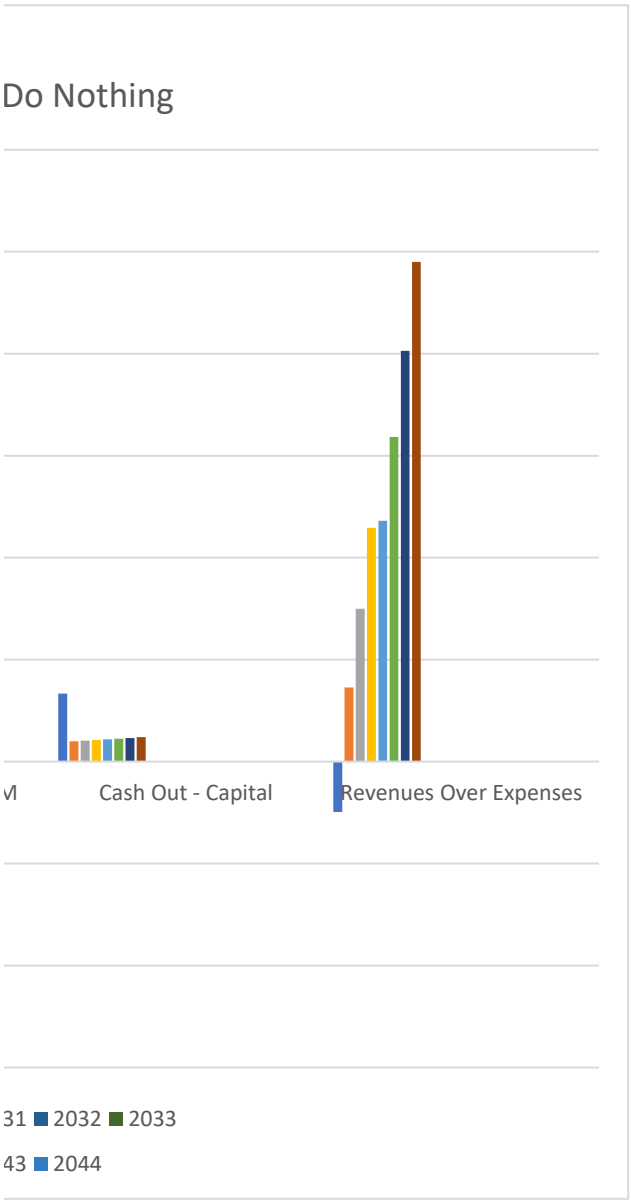

Pinewood Springs Population Projection
2023 to build-out by 2033
Resident Population
1094
1096
1098
1100
1102
1104
1106
1108
1110
1112
Projected population growth at build-out by 2033
Population 2023

Pinewood Springs Water District
20-Year Cash Flow Projection for Alternative #1-Do Nothing

3%	Year	Cash In- Ops Revenue	Cash Out - O & M	Cash Out - Capital	Revenues Over Expenses
inflation					
rate	2022	410,966	376,572	133,442	(99,048)
	2023	423,295	237,869	40,000	145,426
	2024	435,994	95,005	41,200	299,789
	2025	449,074	(52,145)	42,436	458,782
	2026	462,546	(53,709)	43,709	472,546
	2027	476,422	(205,320)	45,020	636,722
	2028	490,715	(361,480)	46,371	805,824
	2029	505,436	(522,324)	47,762	979,998
	2030	-	-	-	-
	2031	-	-	-	-
	2032	-	-	-	-
	2033	-	-	-	-
	2034	-	-	-	-
	2035	-	-	-	-
	2036	-	-	-	-
	2037	-	-	-	-
	2038	-	-	-	-
	2039	-	-	-	-
	2040	-	-	-	-
	2041	-	-	-	-
	2042	-	-	-	-
	2043	-	-	-	-
	2044	-	-	-	-

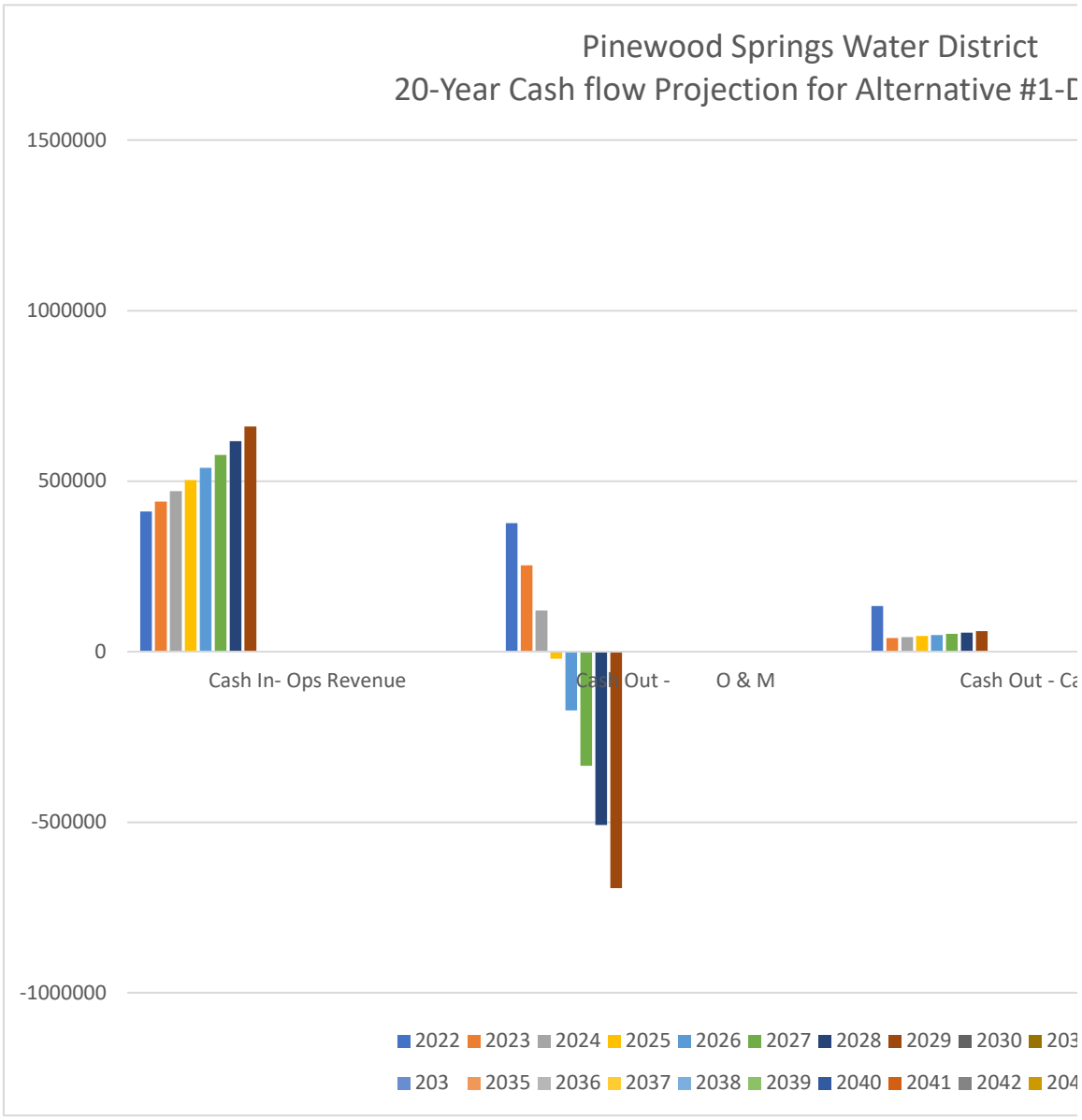

Pinewood Springs Water District
20-Year Cash Flow Projection for Alternative #1-I
1200000
1000000
800000
600000
400000
200000
0
-200000
-400000
-600000
3%
Year
Cash In- Ops Revenue
Cash Out -
O & M
2022 2023 2024 2025 2026 2027 2028 2029 2030 203
2034 2035 2036 2037 2038 2039 2040 2041 2042 204

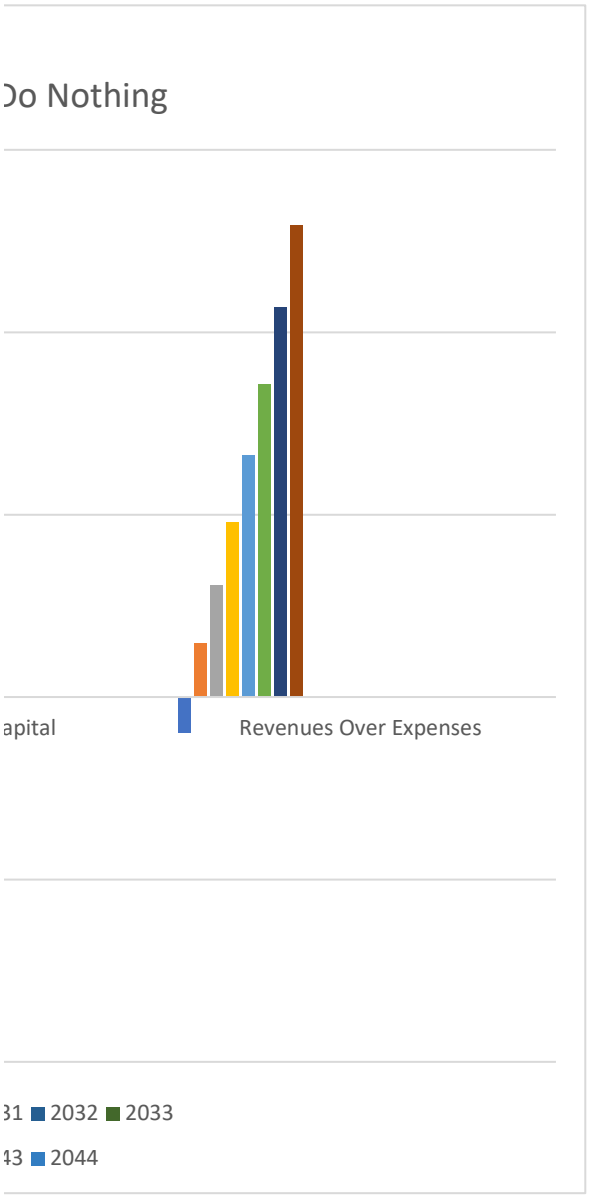

Do Nothing
Cash Out - Capital
Revenues Over Expenses
31 2032 2033
43 2044

Pinewood Springs Water District

20-Year Cash Flow Projection for Alternative #1-Do Nothing

7%	Year	Cash In- Ops Revenue	Cash Out - O & M	Cash Out - Capital	Revenues Over Expenses
inflation					
rate	2022	410,966	376,572	133,442	(99,048)
	2023	439,734	252,932	40,000	146,802
	2024	470,515	120,637	42,800	307,078
	2025	503,451	(20,918)	45,796	478,573
	2026	538,693	(172,382)	49,002	662,073
	2027	576,401	(334,449)	52,432	858,418
	2028	616,749	(507,861)	56,102	1,068,508
	2029	659,922	(693,411)	60,029	1,293,303
	2030	-	-	-	-
	2031	-	-	-	-
	2032	-	-	-	-
	2033	-	-	-	-
	2034	-	-	-	-
	2035	-	-	-	-
	2036	-	-	-	-
	2037	-	-	-	-
	2038	-	-	-	-
	2039	-	-	-	-
	2040	-	-	-	-
	2041	-	-	-	-
	2042	-	-	-	-
	2043	-	-	-	-
	2044	-	-	-	-

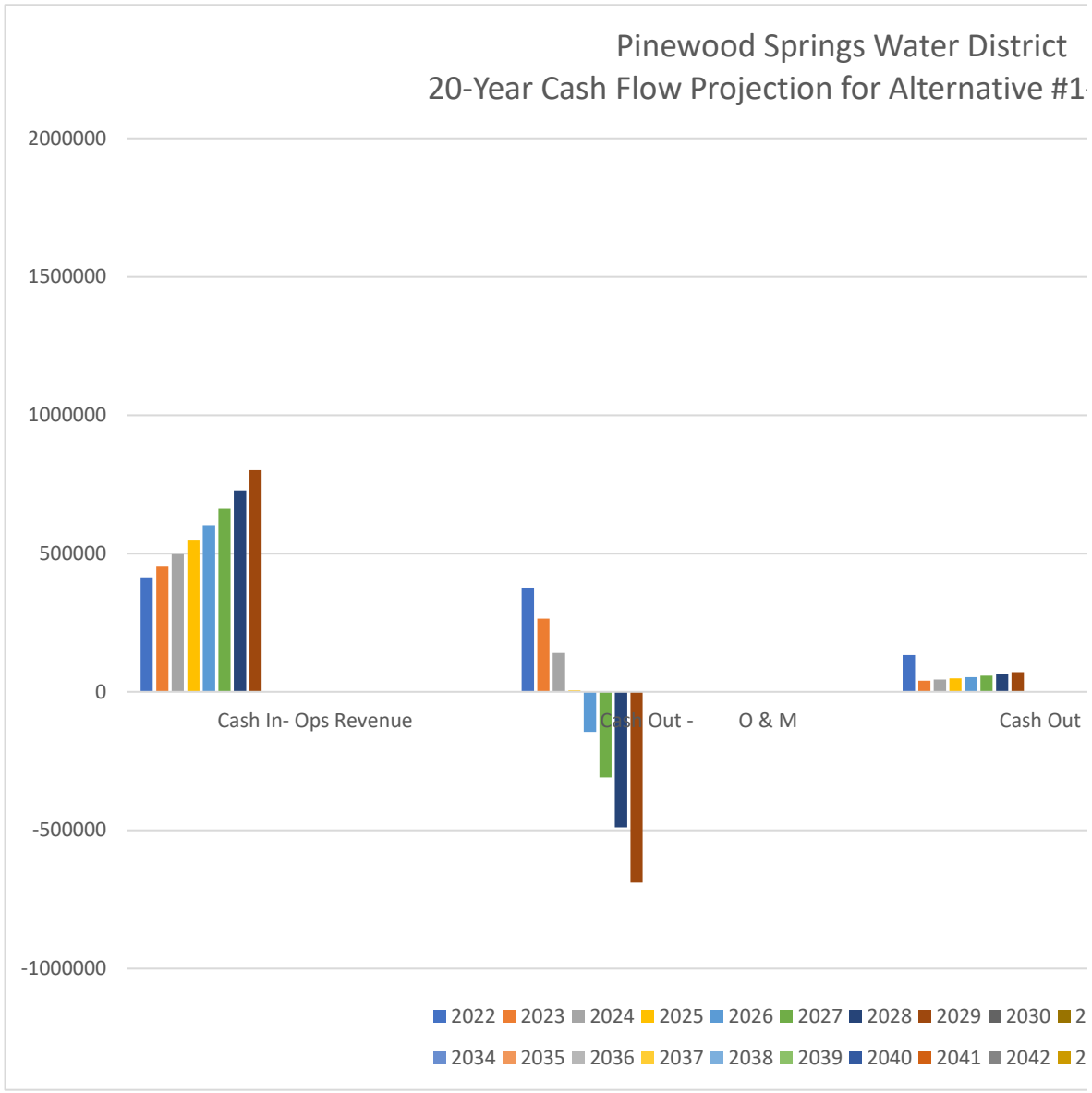

Pinewood Springs Water District
20-Year Cash flow Projection for Alternative #1-D
1500000
1000000
500000
0
-500000
-1000000
Cash In- Ops Revenue
Cash Out -
O & M
Cash Out - Ca
2022 2023 2024 2025 2026 2027 2028 2029 2030 203
203 2035 2036 2037 2038 2039 2040 2041 2042 204

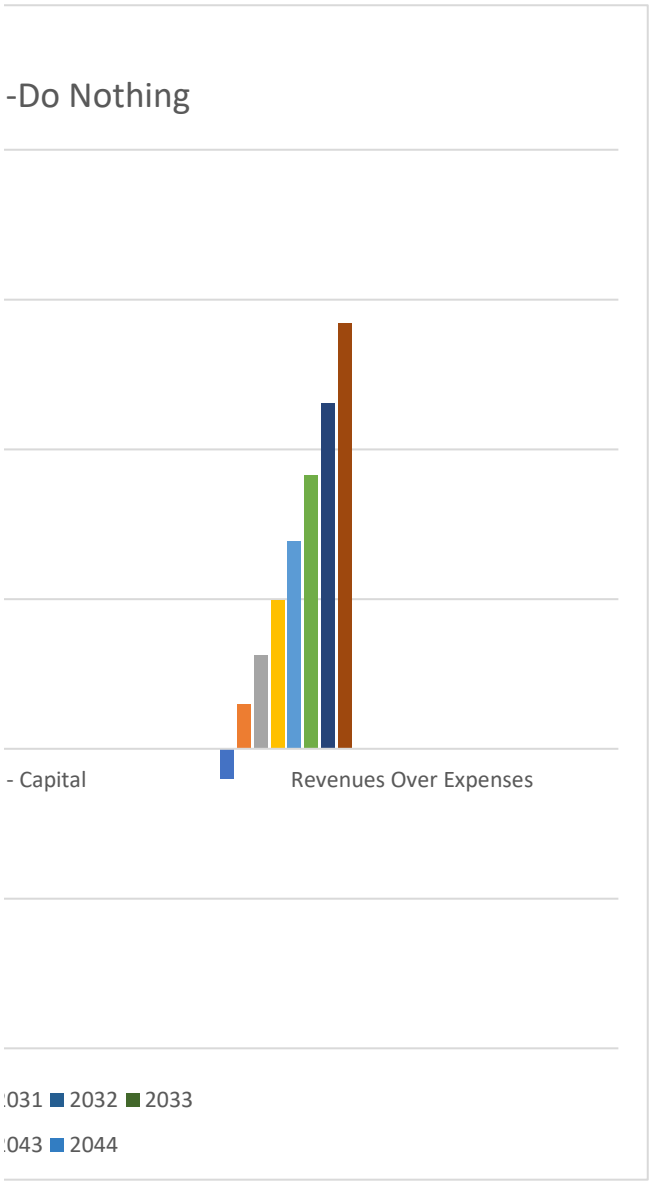

Do Nothing
apital
Revenues Over Expenses
31 2032 2033
43 2044

Pinewood Springs Water District

20-Year Cash Flow Projection for Alternative #1-Do Nothing

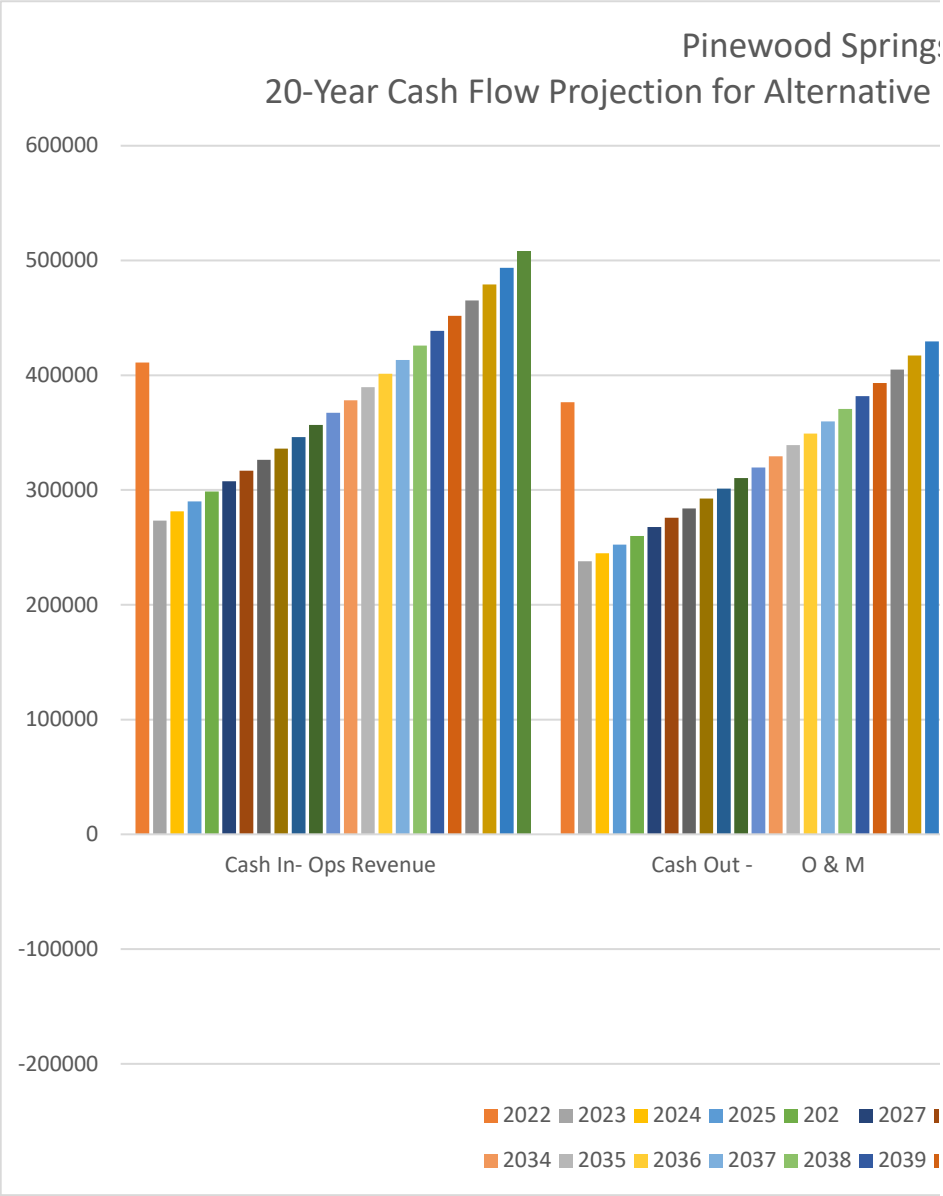
10%	Year	Cash In- Ops Revenue	Cash Out - O & M	Cash Out - Capital	Revenues Over Expenses
inflation					
rate	2022	410,966	376,572	133,442	(99,048)
	2023	452,063	264,229	40,000	147,833
	2024	497,269	140,652	44,000	312,617
	2025	546,996	4,717	48,400	493,878
	2026	601,695	(144,811)	53,240	693,266
	2027	661,865	(309,292)	58,564	912,593
	2028	728,051	(490,221)	64,420	1,153,852
	2029	800,856	(689,243)	70,862	1,419,237
	2030	-	-	-	-
	2031	-	-	-	-
	2032	-	-	-	-
	2033	-	-	-	-
	2034	-	-	-	-
	2035	-	-	-	-
	2036	-	-	-	-
	2037	-	-	-	-
	2038	-	-	-	-
	2039	-	-	-	-
	2040	-	-	-	-
	2041	-	-	-	-
	2042	-	-	-	-
	2043	-	-	-	-
	2044	-	-	-	-

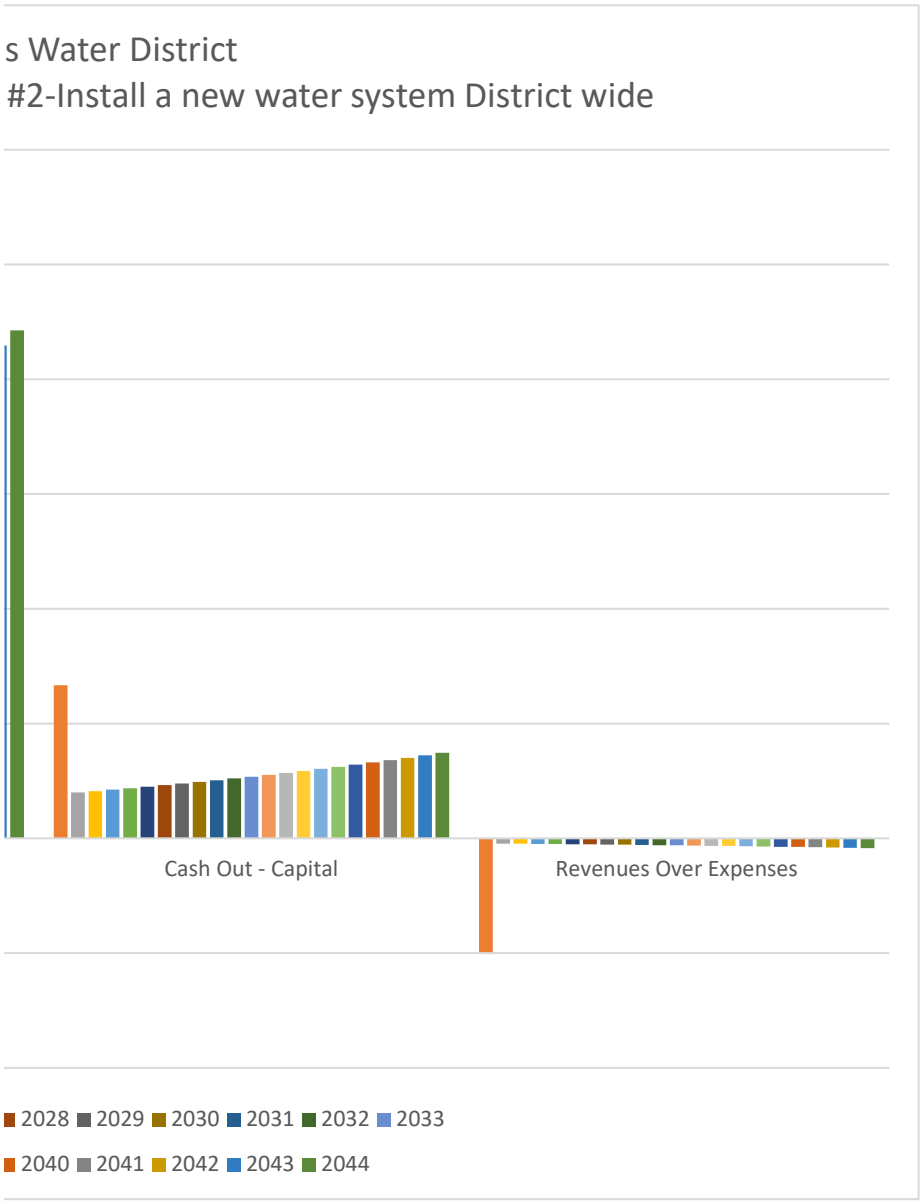

Pinewood Springs Water District
20-Year Cash Flow Projection for Alternative #1
2000000
1500000
1000000
500000
0
-500000
-1000000
Cash In- Ops Revenue
Cash Out -
O & M
Cash Out
2022 2023 2024 2025 2026 2027 2028 2029 2030 2
2034 2035 2036 2037 2038 2039 2040 2041 2042 2


-Do Nothing
- Capital
Revenues Over Expenses
031 2032 2033
043 2044

Pinewood Springs Water District
20-Year Cash Flow Projection for Alternative #2-Install a new water system Dist

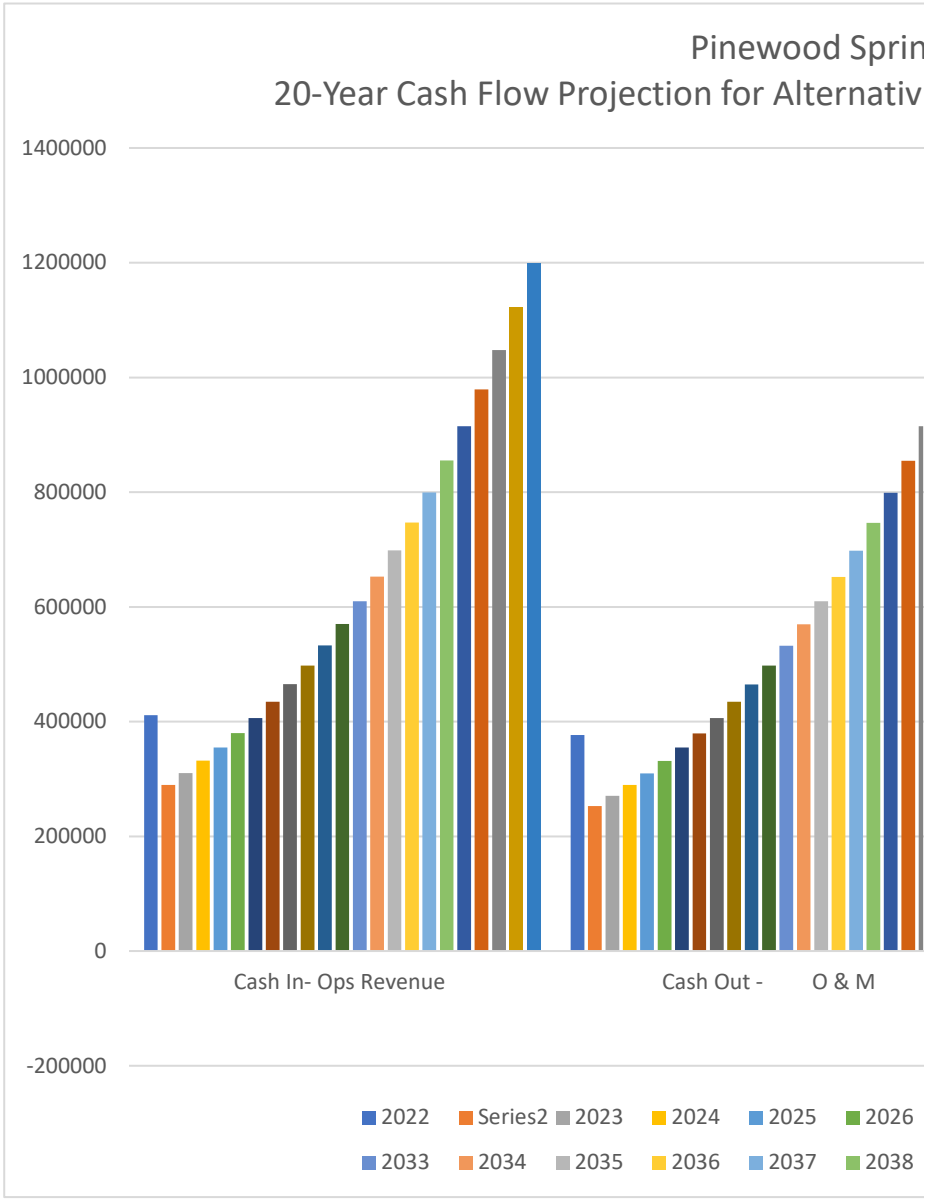
3%	Year	Cash In- Ops Revenue	Cash Out - O & M	Cash Out - Capital	Revenues Over Expenses
inflation					
rate	2022	410,966	376,572	133,442	(99,048)
	2023	273,295	237,869	40,000	(4,574)
	2024	281,494	245,005	41,200	(4,711)
	2025	289,939	252,355	42,436	(4,853)
	2026	298,637	259,926	43,709	(4,998)
	2027	307,596	267,724	45,020	(5,148)
	2028	316,824	275,756	46,371	(5,303)
	2029	326,328	284,028	47,762	(5,462)
	2030	336,118	292,549	49,195	(5,626)
	2031	346,202	301,326	50,671	(5,794)
	2032	356,588	310,365	52,191	(5,968)
	2033	367,286	319,676	53,757	(6,147)
	2034	378,304	329,267	55,369	(6,332)
	2035	389,653	339,145	57,030	(6,522)
	2036	401,343	349,319	58,741	(6,717)
	2037	413,383	359,798	60,504	(6,919)
	2038	425,785	370,592	62,319	(7,126)
	2039	438,558	381,710	64,188	(7,340)
	2040	451,715	393,161	66,114	(7,560)
	2041	465,266	404,956	68,097	(7,787)
	2042	479,224	417,105	70,140	(8,021)
	2043	493,601	429,618	72,244	(8,261)
	2044	508,409	442,507	74,412	(8,509)

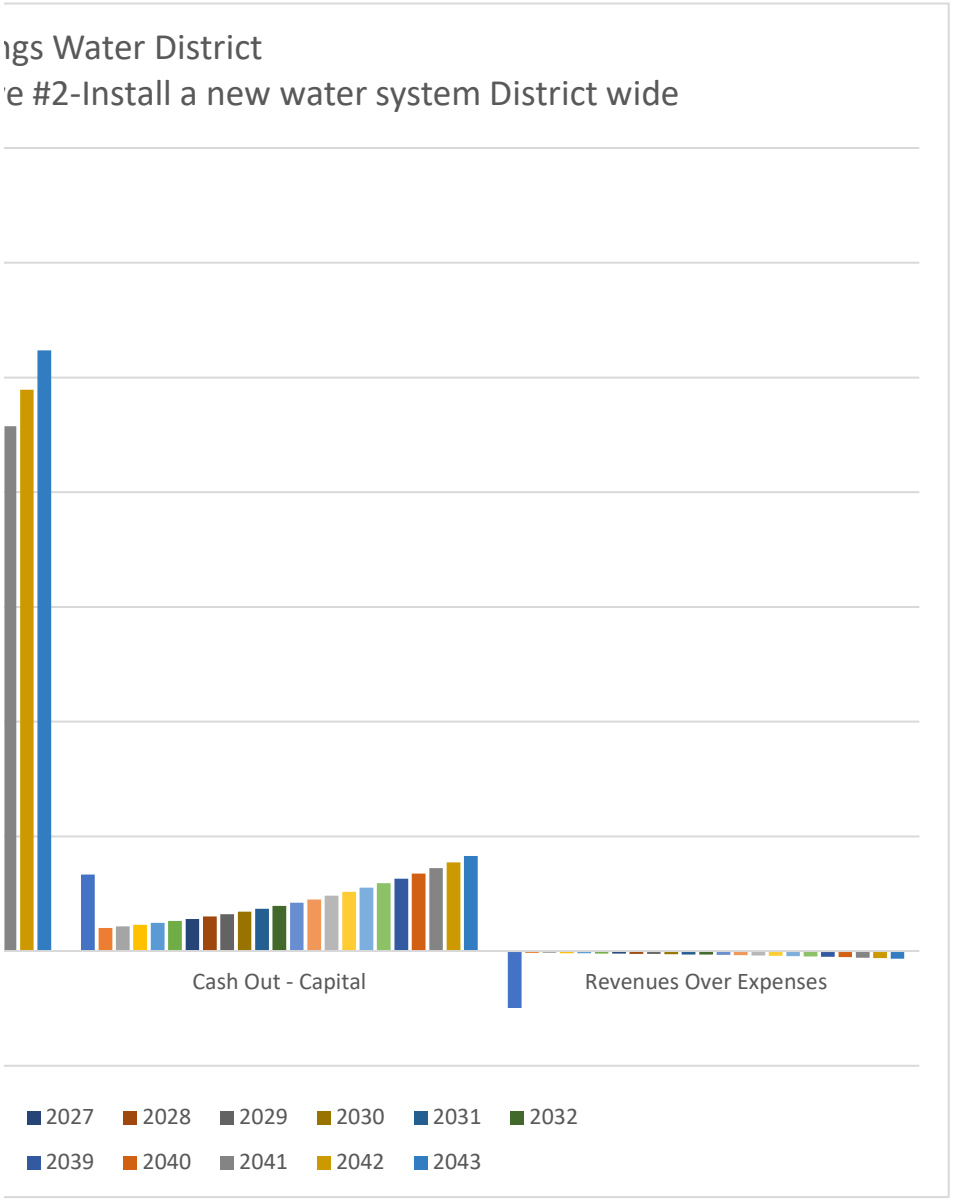

Pinewood Springs
20-Year Cash Flow Projection for Alternative
600000
500000
400000
300000
200000
100000
0
-100000
-200000
Cash In- Ops Revenue
Cash Out - O & M
2022 2023 2024 2025 202 2027
2034 2035 2036 2037 2038 2039


s Water District
#2-Install a new water system District wide
Cash Out - Capital
Revenues Over Expenses
2028 2029 2030 2031 2032 2033
2040 2041 2042 2043 2044

Pinewood Springs Water District
20-Year Cash Flow Projection for Alternative #2-Install a new water system Dist

7%	Year	Cash In- Ops Revenue	Cash Out - O & M	Cash Out - Capital	Revenues Over Expenses
inflation					
rate	2022	410,966	376,572	133,442	(99,048)
	2023	289,734	252,932	40,000	(3,198)
	2024	310,015	270,637	42,800	(3,422)
	2025	331,716	289,582	45,796	(3,662)
	2026	354,936	309,853	49,002	(3,918)
	2027	379,782	331,542	52,432	(4,192)
	2028	406,366	354,750	56,102	(4,486)
	2029	434,812	379,583	60,029	(4,800)
	2030	465,249	406,154	64,231	(5,136)
	2031	497,816	434,584	68,727	(5,495)
	2032	532,663	465,005	73,538	(5,880)
	2033	569,950	497,556	78,686	(6,292)
	2034	609,846	532,384	84,194	(6,732)
	2035	652,536	569,651	90,088	(7,203)
	2036	698,213	609,527	96,394	(7,708)
	2037	747,088	652,194	103,141	(8,247)
	2038	799,384	697,847	110,361	(8,825)
	2039	855,341	746,697	118,087	(9,442)
	2040	915,215	798,966	126,353	(10,103)
	2041	979,280	854,893	135,197	(10,810)
	2042	1,047,830	914,736	144,661	(11,567)
	2043	1,121,178	978,767	154,787	(12,377)
	2044	1,199,660	1,047,281	165,622	(13,243)

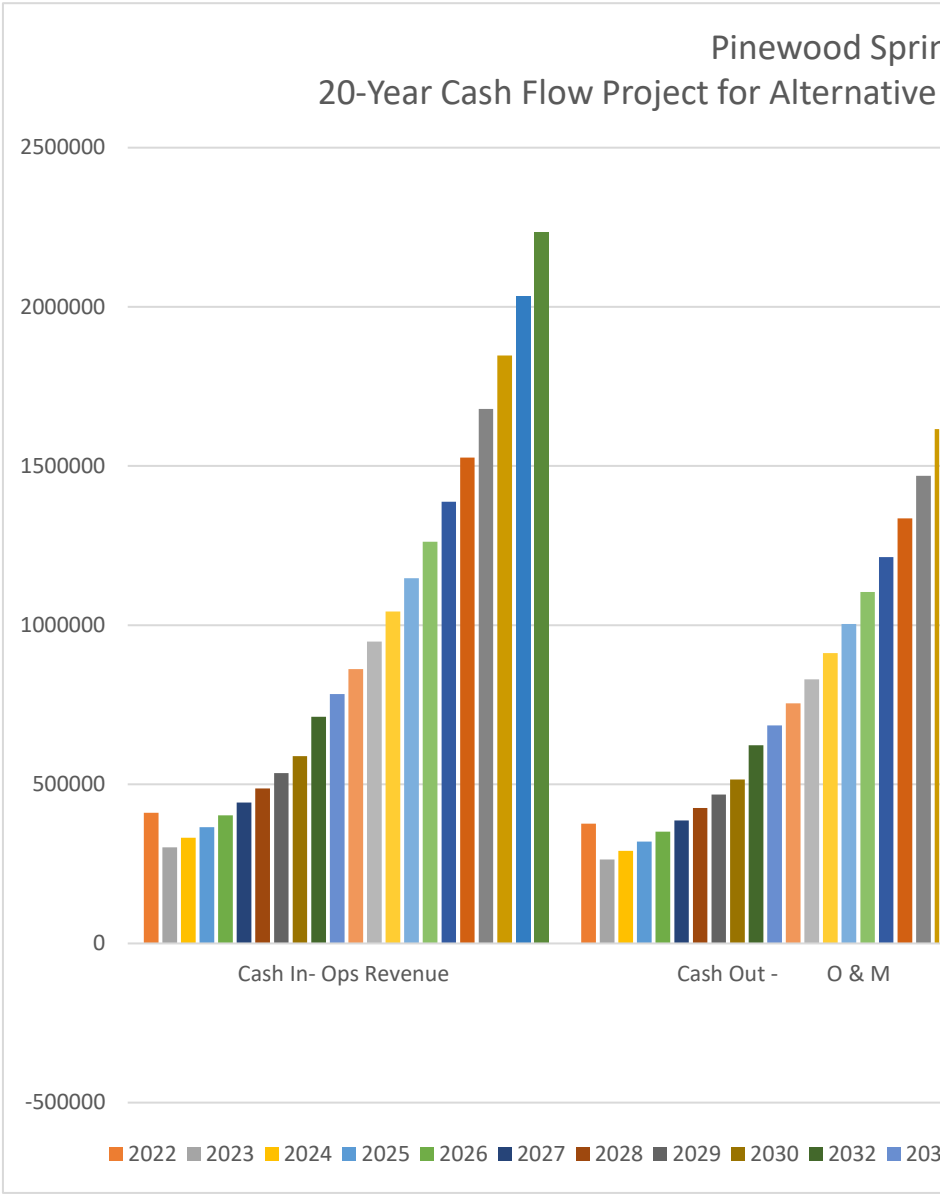

Pinewood Sprin
20-Year Cash Flow Projection for Alternativ
1400000
1200000
1000000
800000
600000
400000
200000
0
-200000
Cash In- Ops Revenue
Cash Out - O & M
2022
Series2
2023
2024
2025
2026
2033
2034
2035
2036
2037
2038

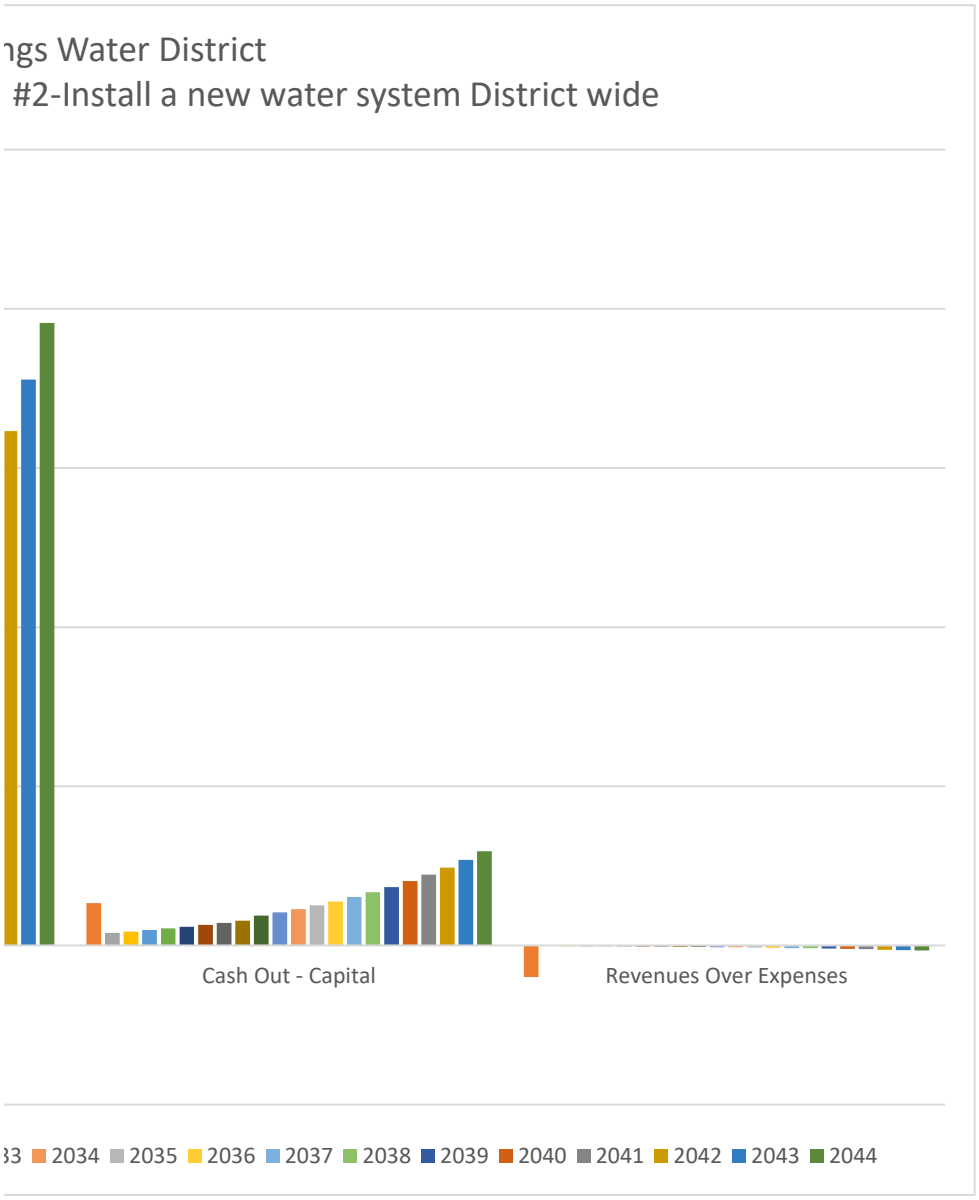

ıgs Water District
e #2-Install a new water system District wide
Cash Out - Capital
Revenues Over Expenses
2027
2028
2029
2030
2031
2032
2039
2040
2041
2042
2043

Pinewood Springs Water District

20-Year Cash Flow Projection for Alternative #2-Install a new water system Dist

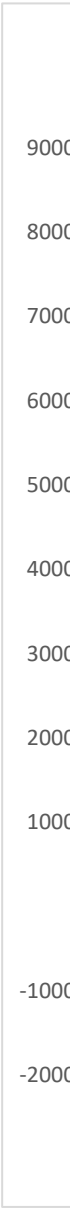
10%	Year	Cash In- Ops Revenue	Cash Out - O & M	Cash Out - Capital	Revenues Over Expenses
inflation					
rate	2022	410,966	376,572	133,442	(99,048)
	2023	302,063	264,229	40,000	(2,167)
	2024	332,269	290,652	44,000	(2,383)
	2025	365,496	319,717	48,400	(2,622)
	2026	402,045	351,689	53,240	(2,884)
	2027	442,250	386,858	58,564	(3,172)
	2028	486,475	425,544	64,420	(3,489)
	2029	535,122	468,098	70,862	(3,838)
	2030	588,635	514,908	77,949	(4,222)
	2031	647,498	566,399	85,744	(4,644)
	2032	712,248	623,039	94,318	(5,109)
	2033	783,473	685,342	103,750	(5,620)
	2034	861,820	753,877	114,125	(6,182)
	2035	948,002	829,264	125,537	(6,800)
	2036	1,042,802	912,191	138,091	(7,480)
	2037	1,147,082	1,003,410	151,900	(8,228)
	2038	1,261,790	1,103,751	167,090	(9,050)
	2039	1,387,969	1,214,126	183,799	(9,955)
	2040	1,526,766	1,335,539	202,179	(10,951)
	2041	1,679,443	1,469,093	222,397	(12,046)
	2042	1,847,387	1,616,002	244,636	(13,251)
	2043	2,032,126	1,777,602	269,100	(14,576)
	2044	2,235,339	1,955,362	296,010	(16,033)

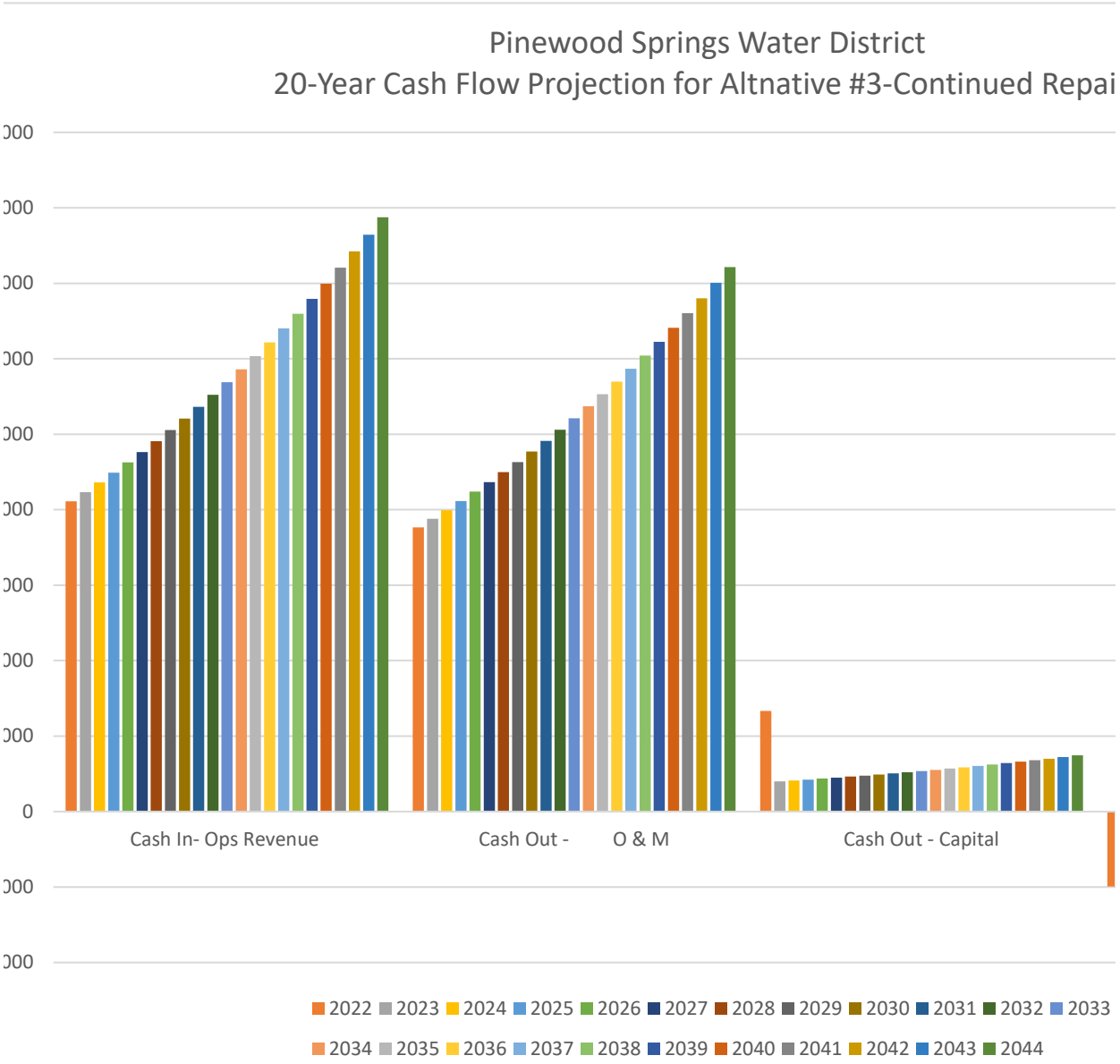

Pinewood Sprir
20-Year Cash Flow Project for Alternative
2500000
2000000
1500000
1000000
500000
0
-500000
Cash In- Ops Revenue
Cash Out - O & M
2022 2023 2024 2025 2026 2027 2028 2029 2030 2032 203


ıgs Water District
#2-Install a new water system District wide
Cash Out - Capital
Revenues Over Expenses
33 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044

Pinewood Springs Water District
20-Year Cash Flow Projection for Alternative #3-Continued Repairs

3%	Year	Cash In- Ops Revenue	Cash Out - O & M	Cash Out - Capital	Revenues Over Expenses
inflation					
rate	2022	410,966	376,572	133,442	(99,048)
	2023	423,295	387,869	40,000	(4,574)
	2024	435,994	399,505	41,200	(4,711)
	2025	449,074	411,490	42,436	(4,853)
	2026	462,546	423,835	43,709	(4,998)
	2027	476,422	436,550	45,020	(5,148)
	2028	490,715	449,647	46,371	(5,303)
	2029	505,436	463,136	47,762	(5,462)
	2030	520,599	477,030	49,195	(5,626)
	2031	536,217	491,341	50,671	(5,794)
	2032	552,304	506,081	52,191	(5,968)
	2033	568,873	521,264	53,757	(6,147)
	2034	585,939	536,902	55,369	(6,332)
	2035	603,517	553,009	57,030	(6,522)
	2036	621,623	569,599	58,741	(6,717)
	2037	640,272	586,687	60,504	(6,919)
	2038	659,480	604,288	62,319	(7,126)
	2039	679,264	622,416	64,188	(7,340)
	2040	699,642	641,089	66,114	(7,560)
	2041	720,631	660,321	68,097	(7,787)
	2042	742,250	680,131	70,140	(8,021)
	2043	764,518	700,535	72,244	(8,261)
	2044	787,453	721,551	74,412	(8,509)




Pinewood Springs Water District
20-Year Cash Flow Projection for Altnative #3-Continued Repai
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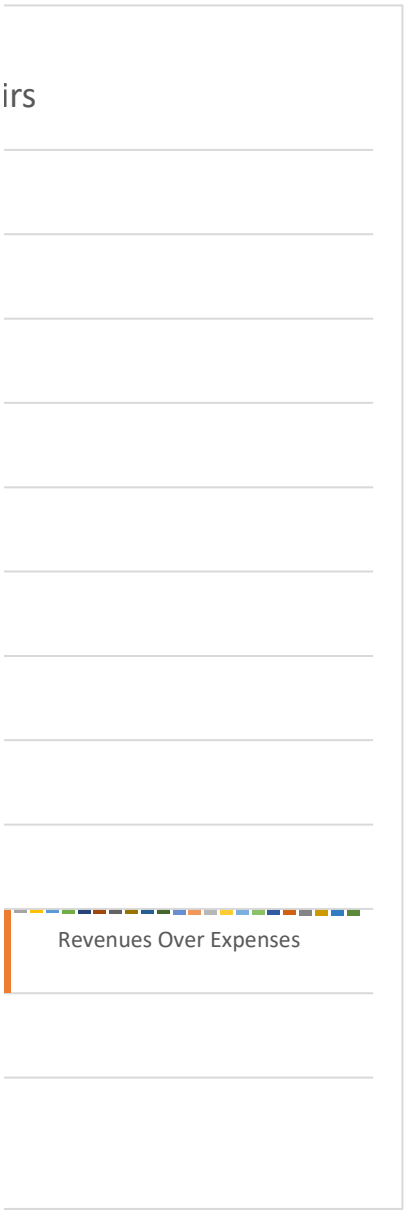
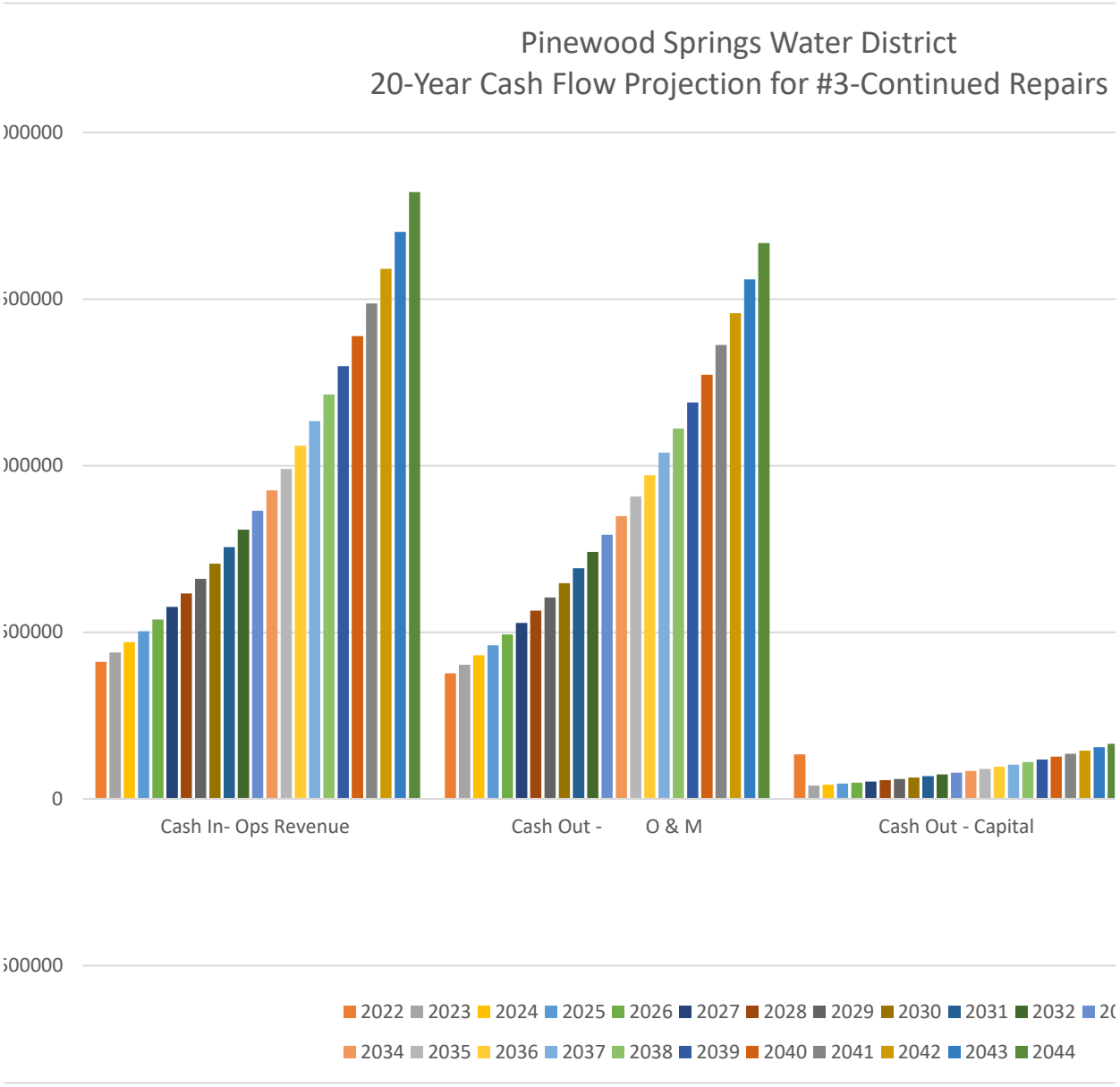
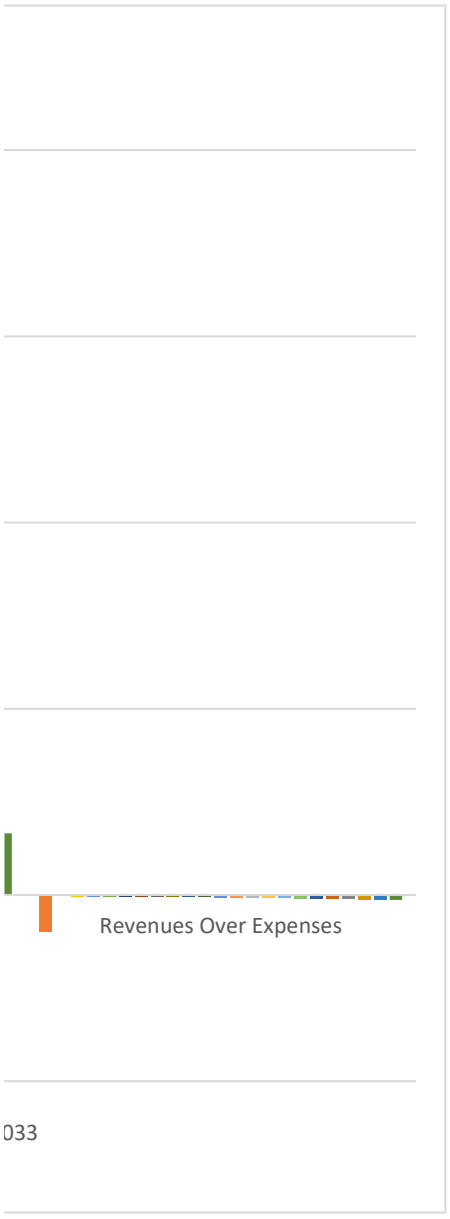
Cash In- Ops Revenue
Cash Out -
O & M
Cash Out - Capital
2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033
2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044


irs
Revenues Over Expenses

Pinewood Springs Water District
20-Year Cash Flow Projection for Alternative #3-Continued Repairs

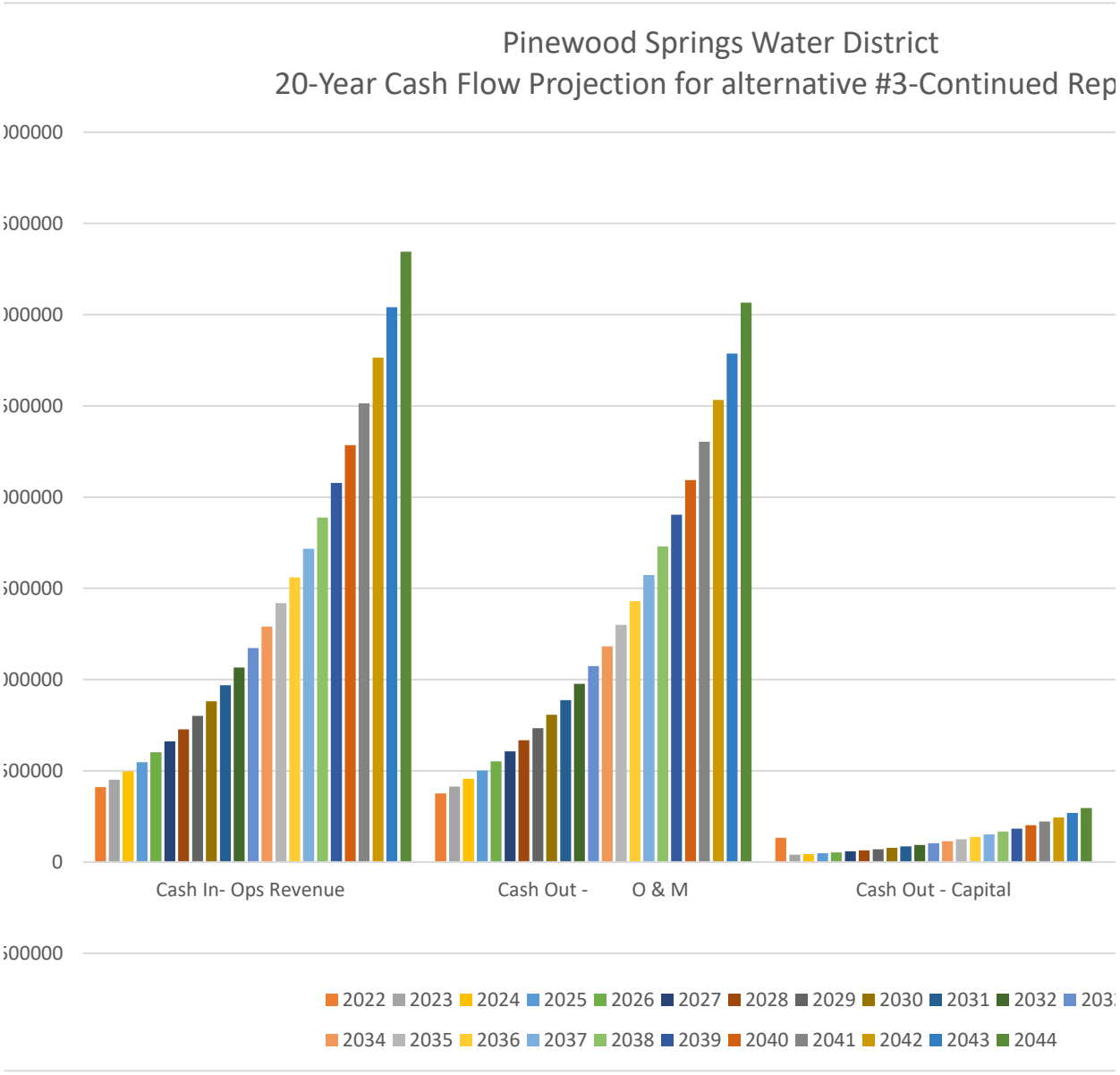
7%	Year	Cash In- Ops Revenue	Cash Out - O & M	Cash Out - Capital	Revenues Over Expenses
inflation					
rate	2022	410,966	376,572	133,442	(99,048)
	2023	439,734	402,932	40,000	(3,198)
	2024	470,515	431,137	42,800	(3,422)
	2025	503,451	461,317	45,796	(3,662)
	2026	538,693	493,609	49,002	(3,918)
	2027	576,401	528,162	52,432	(4,192)
	2028	616,749	565,133	56,102	(4,486)
	2029	659,922	604,692	60,029	(4,800)
	2030	706,116	647,021	64,231	(5,136)
	2031	755,544	692,312	68,727	(5,495)
	2032	808,432	740,774	73,538	(5,880)
	2033	865,023	792,628	78,686	(6,292)
	2034	925,574	848,112	84,194	(6,732)
	2035	990,364	907,480	90,088	(7,203)
	2036	1,059,690	971,004	96,394	(7,708)
	2037	1,133,868	1,038,974	103,141	(8,247)
	2038	1,213,239	1,111,702	110,361	(8,825)
	2039	1,298,166	1,189,521	118,087	(9,442)
	2040	1,389,037	1,272,788	126,353	(10,103)
	2041	1,486,270	1,361,883	135,197	(10,810)
	2042	1,590,309	1,457,215	144,661	(11,567)
	2043	1,701,630	1,559,220	154,787	(12,377)
	2044	1,820,744	1,668,365	165,622	(13,243)


Pinewood Springs Water District
20-Year Cash Flow Projection for #3-Continued Repairs
000000
500000
000000
500000
0
500000
Cash In- Ops Revenue
Cash Out -
O & M
Cash Out - Capital
2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 20
2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044


Revenues Over Expenses
033

Pinewood Springs Water District
20-Year Cash Flow Projection for Alternative #3-Continued Repairs

10%	Year	Cash In- Ops Revenue	Cash Out - O & M	Cash Out - Capital	Revenues Over Expenses
inflation					
rate	2022	410,966	376,572	133,442	(99,048)
	2023	452,063	414,229	40,000	(2,167)
	2024	497,269	455,652	44,000	(2,383)
	2025	546,996	501,217	48,400	(2,622)
	2026	601,695	551,339	53,240	(2,884)
	2027	661,865	606,473	58,564	(3,172)
	2028	728,051	667,120	64,420	(3,489)
	2029	800,856	733,832	70,862	(3,838)
	2030	880,942	807,216	77,949	(4,222)
	2031	969,036	887,937	85,744	(4,644)
	2032	1,065,940	976,731	94,318	(5,109)
	2033	1,172,534	1,074,404	103,750	(5,620)
	2034	1,289,787	1,181,844	114,125	(6,182)
	2035	1,418,766	1,300,029	125,537	(6,800)
	2036	1,560,643	1,430,032	138,091	(7,480)
	2037	1,716,707	1,573,035	151,900	(8,228)
	2038	1,888,378	1,730,338	167,090	(9,050)
	2039	2,077,215	1,903,372	183,799	(9,955)
	2040	2,284,937	2,093,709	202,179	(10,951)
	2041	2,513,431	2,303,080	222,397	(12,046)
	2042	2,764,774	2,533,388	244,636	(13,251)
	2043	3,041,251	2,786,727	269,100	(14,576)
	2044	3,345,376	3,065,400	296,010	(16,033)


Pinewood Springs Water District
20-Year Cash Flow Projection for alternative #3-Continued Rep
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Cash In- Ops Revenue
Cash Out -
O & M
Cash Out - Capital
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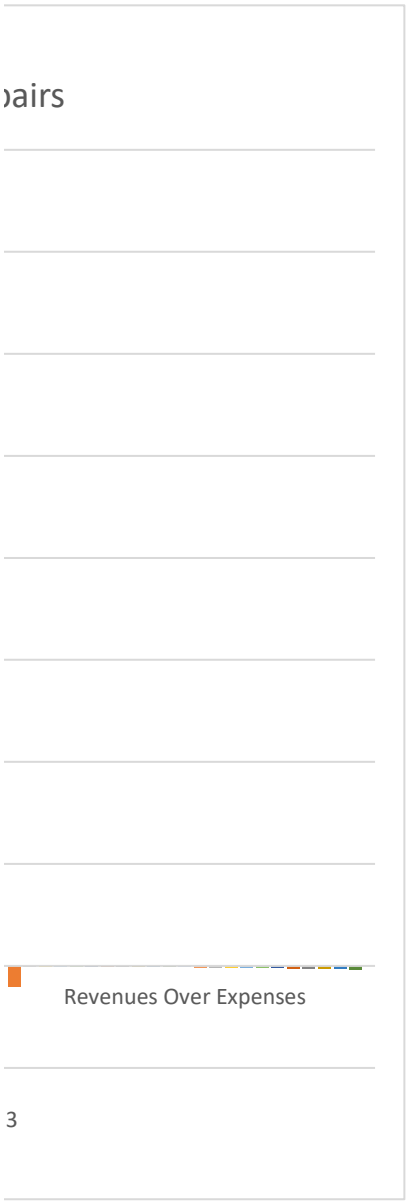
2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044


airs
Revenues Over Expenses
3

Pinewood Springs Water District (PSWD)
Organizational Chart
Employees and BOD

PSWD Employees:

Bobby Longworth

Position: Water Superintendent, Operator in Charge

Term: Forever

Appointing Authority: Board of Directors

Phone: 303.823.5926

Email Address: pswdorc@gmail.com

Mailing Address: 183 Cree Court

Gabi Benson

Position: District Clerk

Term: since 2003

Appointing Authority: Board of Directors

Phone: 303-823-5345

Email Address: pswdadmin@att.net

Mailing Address: 183 Cree Ct., Lyons, CO 80540

PSWD Board of Directors:

Steve Stewart

Position: President

Term: expires in 2027

Appointing Authority: elected by acclaim

Phone: 303.823.5345

Email Address: pswdadmin@att.net

Mailing Address: 183 Cree Ct.. Lyons, CO 80540

Kim Bologna

Position: Vice President

Pinewood Springs Water District (PSWD)
Organizational Chart
Employees and BOD

Term: expires in 2027

Appointing Authority: elected by acclaim

Phone: 303.823.5345

Email Address: pswdadmin@att.net

Mailing Address: 183 Cree Ct., Lyons, CO 80540

Patty Peritz

Position: Secretary

Term: expires in 2025

Appointing Authority: elected by acclaim

Phone: 303.823.5345

Email Address: pswdadmin@att.net

Mailing Address: 183 Cree Ct., Lyons, CO 80540

Mike Murphy

Position: Member-At-Large

Term: expires in 2025

Appointing Authority: elected by acclaim

Phone: 303.823.5345

Email Address: pswdadmin@att.net

Mailing Address: 183 Cree Ct., Lyons, CO 80540

Dan Robinson

Position: Treasurer

Term: Expires in 2025

Appointing Authority: elected by acclaim

Phone: 303.823.5345

Pinewood Springs Water District (PSWD)
Organizational Chart
Employees and BOD

Mailing Address: 183 Cree Court, Lyons, CO 80540

PINEWOOD SPRINGS WD
Calendar Year 2023 Monitoring Schedule
Mailing Address: 183 CREE CT LYONS, CO 80540

Public Water System ID	Water System Name	Federal System Type	State Source Type	Service Connections	Population
CO0135610	PINEWOOD SPRINGS WD	Community	Surface Water	298	745
Primary County	**Minimum Certification for Treatment Operator**	**Minimum Certification for Distribution System Operator**	**Last Inspection**	**Seasonal**	**Water Hauler**
LARIMER	C	2	05/18/2022	No	No

Contact Information

All public water systems are required to maintain an Administrative Contact, Treatment Operator (if applicable), Distribution System Operator (if applicable), and Owner. If the information below is incorrect or blank please send us a contact update form. This form and operator certification information is available by visiting wqcdcompliance.com/forms.

Administrative Contact	Treatment Operator	Distribution System Operator	Owner
GABRIELE BENSON	ROBERT LONGWORTH	ROBERT LONGWORTH	PINEWOOD SPRINGS WD

General Information

Samples must be collected at the location specified in the Monitoring Plan or Record of Approved Waterworks.

- Schedules are updated every Wednesday evening. Please contact your specialist with questions wqcdcompliance.com or call us at 303-692-3556.
- **Use Online Water System Search to view system info, online records, contacts, violations, and sample results.**
- Laboratory sample results must be analyzed by a certified laboratory using a certified method. **The requirements listed below are the minumum. Additional sample results (i.e. any and all) collected at a compliance sampling location and analyzed by a certified laboratory using a certified method must be submitted using the Online Portal wqcdcompliance.com/login, fax, or mail.**
- Please identify the **Facility ID and Sample Point ID** (listed below) when submitting sample results. Facility and Sample Point IDs are used to identify general sample site locations.
- All systems on a **3 year Lead and Copper** schedule must sample during the **calendar year and months specified** in the 'Lead and Copper Sample Schedule' under the 'Distribution System Sample Schedules' section.

Monitoring Information

Distribution System Sample Schedules

Facility ID	Facility Name	Facility Type
DS001	DISTRIBUTION SYSTEM	Distribution System

Microorganisms and Disinfectants

TOTAL COLIFORM BACTERIA (TCR) Sample Schedule:

3 sample(s) **per Month** during the collection period

Collection Period:

January 1, 2023 to December 31, 2023

Use the Facility ID and Sample Point ID listed at the end of this monitoring schedule.

FREE CHLORINE Sample Schedule:

Measure **every time** you collect a TOTAL COLIFORM BACTERIA (TCR) sample

Distribution System Sample Schedules

Facility ID	Facility Name	Facility Type
DS001	DISTRIBUTION SYSTEM	Distribution System

Disinfection Byproducts

TTHMs and HAA5s (Stage 2) Sample Schedule:

1 dual sample(s) **per sample point** for a **TOTAL of 1 dual sample(s) per Quarter** during the collection period

****Collection Restriction:*** Sample(s) must be collected, **at a minimum**, in the following months: **February , May , August (Peak Month), November***

State Sample Point ID(s) (System Location ID(s)):
DBP001 (SP4)

Collection Period:

January 1, 2023 to December 31, 2023

Compliance Check:
~~**February**~~ ****Result(s) Received****
~~**May**~~ ****Result(s) Received****
August (Peak Month)
November

Lead and Copper

LEAD AND COPPER Sample Schedule:

10 sample(s) **must be collected every 3 Years**

****Collection Restriction:*** Sample(s) **must be collected between June 1, 2024 and September 30, 2024***

Collection Period:

June 1, 2024 to September 30, 2024

SAMPLES MUST BE COLLECTED FROM THE HIGHEST RISK SITES LISTED IN THE LEAD AND COPPER SAMPLE POOL INFORMATION AT THE END OF THIS MONITORING SCHEDULE.

Each sample must be reported with a State Assigned Sample Point ID (LCR###).

To ensure timely processing of results, please have the certified lab report all results electronically in CSV data format. Do NOT submit paper or PDF copies of lab reported data.

Non-Distribution System Sample Schedules

Facility ID	Facility Name	Facility Type	Sample Point ID	Sample Point Name	Sample Point Type
001	PINEWOOD SPRINGS SWTP01	Treatment Plant	001	FINISHED TURBIDITY	Water System Facility

Daily Schedules

TURBIDITY (CFE) Sample Schedule:

1 sample **every 4 Hours** during the collection period

Note: Sample(s) collected at a location representative of the combined filtered water

Collection Period:

While Operating

Facility ID	Facility Name	Facility Type	Sample Point ID	Sample Point Name	Sample Point Type
040	CLEARWELL FOR CT AND PUMP CHAMBER	Treatment Plant	040	ENTRY POINT	Entry Point

Daily Schedules

FREE CHLORINE (MICROBIAL INACTIVATION AND ENTRY POINT RESIDUAL) Sample Schedule:

2 sample(s) **per Day** during the collection period

Collection Period:

While Operating

Non-Distribution System Sample Schedules

Facility ID	Facility Name	Facility Type	Sample Point ID	Sample Point Name	Sample Point Type
040	CLEARWELL FOR CT AND PUMP CHAMBER	Treatment Plant	040	ENTRY POINT	Entry Point

Quarterly Schedules

2,4-D Sample Schedule:

1 sample(s) **per Quarter** during the collection period

Collection Period:

January 1, 2023 to December 31, 2023

Compliance Check:
~~**1st Quarter**~~ ****Result(s) Received****
~~**2nd Quarter**~~ ****Result(s) Received****
3rd Quarter
4th Quarter

DALAPON Sample Schedule:

1 sample(s) **per Quarter** during the collection period

Collection Period:

January 1, 2023 to December 31, 2023

Compliance Check:
~~**1st Quarter**~~ ****Result(s) Received****
~~**2nd Quarter**~~ ****Result(s) Received****
3rd Quarter
4th Quarter

HEXACHLOROCYCLOPENTADIENE Sample Schedule:

1 sample(s) **per Quarter** during the collection period

Collection Period:

January 1, 2023 to December 31, 2023

Compliance Check:
~~**1st Quarter**~~ ****Result(s) Received****
~~**2nd Quarter**~~ ****Result(s) Received****
3rd Quarter
4th Quarter

Yearly Schedules

NITRATE Sample Schedule:

1 sample(s) **per Year**

Collection Period:

January 1, 2023 to December 31, 2023

3 Year Schedules

SYNTHETIC ORGANICS GROUP Sample Schedule:

1 sample(s) **per 3 Years**

Collection Period:

January 1, 2023 to December 31, 2025

Satisfied Schedules

FLUORIDE Sample Schedule:

1 sample(s) **per Year**

Collection Period:

~~January 1, 2023 to December 31, 2023~~
****Sample Result(s) Received****

INORGANICS GROUP Sample Schedule:

1 sample(s) **per Year**

Collection Period:

~~January 1, 2023 to December 31, 2023~~
****Sample Result(s) Received****

VOLATILE ORGANICS GROUP Sample Schedule:

1 sample(s) **per Year**

Collection Period:

~~January 1, 2023 to December 31, 2023~~
****Sample Result(s) Received****

Non-Distribution System Sample Schedules

Facility ID	Facility Name	Facility Type	Sample Point ID	Sample Point Name	Sample Point Type
040	CLEARWELL FOR CT AND PUMP CHAMBER	Treatment Plant	040	ENTRY POINT	Entry Point

Satisfied Schedules

COMBINED URANIUM Sample Schedule: 1 sample(s) **per 6 Years**	**Collection Period:** ~~January 1, 2020 to December 31, 2025~~ ****Sample Result(s) Received****
GROSS ALPHA, WITHOUT RADON & URANIUM Sample Schedule: 1 sample(s) **per 6 Years** ****Collection Restriction:*** Sample(s) **must** be collected at the **same time** as the COMBINED URANIUM sample(s)*	***Collection Period:*** ~~January 1, 2020 to December 31, 2025~~ ****Sample Result(s) Received****
COMBINED RADIUM (-226 & -228) Sample Schedule: 1 sample(s) **per 9 Years**	**Collection Period:** ~~January 1, 2020 to December 31, 2028~~ ****Sample Result(s) Received****
NITRITE Sample Schedule: 1 sample(s) **per 9 Years**	**Collection Period:** ~~January 1, 2020 to December 31, 2028~~ ****Sample Result(s) Received****

Compliance and Public Notice Schedules

Public Notice Schedules - Certificate of Delivery and Notice must be submitted within 10 days after providing notification
Forms available at wqcdcompliance.com/pn

Activity Name	Activity Due Date	Activity Completion Date
MAIL/HAND DELIVER NOTICE TO CONSUMERS: FAILURE TO MEET CROSS CONNECTION CONTROL AND/OR BACKFLOW PREVENTION REQUIREMENTS - CROSS CONNECTION RULE	July 17, 2022	July 5, 2022
MAIL/HAND DELIVER NOTICE TO CONSUMERS: FAILURE TO MEET CROSS CONNECTION CONTROL AND/OR BACKFLOW PREVENTION REQUIREMENTS - CROSS CONNECTION RULE	October 17, 2022	December 1, 2022
MAIL/HAND DELIVER NOTICE TO CONSUMERS: FAILURE TO MEET CROSS CONNECTION CONTROL AND/OR BACKFLOW PREVENTION REQUIREMENTS - CROSS CONNECTION RULE	January 17, 2023	December 1, 2022
MAIL/HAND DELIVER NOTICE TO CONSUMERS: FAILURE TO MEET CROSS CONNECTION CONTROL AND/OR BACKFLOW PREVENTION REQUIREMENTS - CROSS CONNECTION RULE	April 17, 2023	April 1, 2023

Compliance and Public Notice Schedules

Sanitary Survey Significant Deficiency

Activity Name	Activity Due Date	Activity Completion Date
RESOLVE SIGNIFICANT DEFICIENCY/VIOLATION - F310	October 15, 2022	Activity Not Completed
RESOLVE SIGNIFICANT DEFICIENCY/VIOLATION - F310	October 15, 2022	Activity Not Completed
RESOLVE SIGNIFICANT DEFICIENCY/VIOLATION - F310	October 15, 2022	October 15, 2022
RESOLVE SIGNIFICANT DEFICIENCY/VIOLATION - M610	October 15, 2022	Activity Not Completed
RESOLVE SIGNIFICANT DEFICIENCY/VIOLATION - M612	October 15, 2022	April 28, 2023
RESOLVE SIGNIFICANT DEFICIENCY/VIOLATION - M613	October 15, 2022	April 28, 2023
RESOLVE SIGNIFICANT DEFICIENCY/VIOLATION - M614	October 15, 2022	April 28, 2023
RESOLVE SIGNIFICANT DEFICIENCY/VIOLATION - R514	October 15, 2022	Activity Not Completed
RESOLVE SIGNIFICANT DEFICIENCY/VIOLATION - R540	October 15, 2022	Activity Not Completed

~~CCR Compliance Schedule~~ - Schedule Closed
Your 2023 *DRAFT* CCR will be posted at wqcdcompliance.com/ccr in March

Activity Name	Activity Due Date	Activity Completion Date
SUBMIT CCR REPORT TO STATE	June 30, 2023	June 1, 2023
SUBMIT CERTIFICATE OF DELIVERY	June 30, 2023	June 5, 2023

LCRR Compliance Schedule
Visit wqcdcompliance.com/lcr for more information

Activity Name	Activity Due Date	Activity Completion Date
SUBMIT LEAD SERVICE LINE INVENTORY	October 16, 2024	Activity Not Completed

Lead Consumer Notification - Delivery to consumers is required within 30 days after receipt of data from laboratory

Activity Name	Activity Due Date	Activity Completion Date
SUBMIT ONE (1) LEAD CONSUMER NOTICE AND CERTIFICATE OF DELIVERY	December 31, 2024	Activity Not Completed

Facility Specific Levels

Facility ID	Facility Name	Facility Type
DS001	DISTRIBUTION SYSTEM	Distribution System
Analyte Name	**Level**	**Level Type**
FREE CHLORINE	0.2 mg/L	Minimum
FREE CHLORINE	4.0 mg/L	Maximum
Facility ID	**Facility Name**	**Facility Type**
001	PINEWOOD SPRINGS SWTP01	Treatment Plant
Analyte Name	**Level**	**Level Type**
TURBIDITY	0.5 NTU	Maximum

Facility Specific Levels		
Facility ID 001	**Facility Name** PINEWOOD SPRINGS SWTP01	**Facility Type** Treatment Plant
Analyte Name	**Level**	**Level Type**
TURBIDITY	0.1 NTU	95th Percentile
Facility ID 040	**Facility Name** CLEARWELL FOR CT AND PUMP CHAMBER	**Facility Type** Treatment Plant
Analyte Name	**Level**	**Level Type**
FREE CHLORINE (MICROBIAL INACTIVATION AND ENTRY POINT RESIDUAL)	1.0 mg/L	Minimum

Backflow Prevention and Cross-connection Control (BPCCC) Reminders:

- Annual BPCCC Reports need to be completed by May 1, 2023 for activities completed in 2022.
- The required survey compliance ratio is 1.0, unless you have a CDPHE approved alternate ratio.
- The required assembly testing ratio is 0.90 and the required method inspection ratio is 0.90.
- All assemblies and methods not tested/inspected in 2022 must be tested/inspected within 90 days of the active date in 2023. The active date is the first day that water flows through the assembly or method.
- Annual BPCCC reports should only be submitted to us if a violation occurred. Reports and supporting calculations will be reviewed during your next sanitary survey, however, we can request this information at any time.
- For more information regarding the requirements and how to compile a report please visit wqcdcompliance.com/forms or submit specific questions to cdphe_wqcd_fss_questions@state.co.us.

Storage Tank Reminders:

All storage tanks within the distribution system must be inspected twice per year unless an alternative storage tank inspection schedule has been established and included in the written inspection plan. An alternative storage tank inspection schedule is subject to our review and revision, generally during a sanitary survey, but alternative inspection schedules can be requested by us at any time.

All storage tanks within the distribution system are required to undergo a comprehensive tank inspection at least every five calendar years. For example, if a storage tank last had a comprehensive inspection in 2018, the next comprehensive inspection would be due by the end of 2023

Facility Information				Sample Point Information	
Facility ID	**Active Status**	**Facility Name**	**Facility Type**	**Sample Point ID**	**Sample Point Name**
001	A	PINEWOOD SPRINGS SWTP01	Treatment Plant	001	FINISHED TURBIDITY
003	A	HIGH ZONE CHLORINATOR BOOSTER	Treatment Plant	003	NOT ENTRY POINT
024	A	LOWER ZONE TANK NO 1	Storage	024	DIST TANK
025	A	MID ZONE BURIED STEEL	Storage	025	DIST TANK
026	A	HIGH ZONE TANK NO 1	Storage	026	DIST TANK
028	A	HAULED WATER FROM CO0107485 LONGMONT	Non-Piped, Purchased	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT

029	A	RAW WATER RESERVOIR	Reservoir	029	RAW
030	A	PUMP FACILITY 1 MAY AVENUE	Pump Facility	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
031	A	PUMP FACILITY 2 TO HIGH ZONE	Pump Facility	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
032	A	PUMP FACILITY 3 TO LOW ZONE	Pump Facility	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
034	A	PRESSURE CONTROL	Pressure Control	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
035	A	TREATMENT PLANT FOR LOW ZONE BOOSTER	Treatment Plant	035	NOT ENTRY POINT
036	A	RAW WATER DIVERSION FR LITTLE THOMP 2006	Intake	036	RAW
037	A	PUMP FACILITY 5	Pump Facility	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
038	A	LOWER ZONE TANK NO 2	Storage	038	DIST TANK
039	A	HIGH ZONE TANK NO 2	Storage	039	DIST TANK
040	A	CLEARWELL FOR CT AND PUMP CHAMBER	Treatment Plant	040	ENTRY POINT
CRS001	A	COMBINED RAW WATER SOURCE	Sampling Station	CRS001	COMBINED RAW SOURCE
DS001	A	DISTRIBUTION SYSTEM	Dist System/Zone	DBP001	SP4
				RPDN	REPEAT DOWNSTREAM
				RPOR	REPEAT ORIGINAL
				RPOT	REPEAT OTHER
				RPUP	REPEAT UPSTREAM
				RTOR	ROUTINE ORIGINAL
002	I	TANK PIT NO 8	Storage	002	RAW INACTIVE
004	I	WELL NO 1	Well	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
005	I	WELL NO 2	Well	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
006	I	WELL NO 3	Well	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
007	I	WELL NO 4	Well	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
008	I	WELL NO 5	Well	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT

013	I	WELL NO 10 MOUND WELL	Well	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
014	I	WELL NO 11 LAKE PIT	Well	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
015	I	WELL NO 12	Well	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
018	I	BLUE WELL	Well	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
019	I	SPRING NO 2 AKA GRAPE SPRING	Well	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
023	I	CRECENT LAKE WTP	Treatment Plant	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
027	I	LITTLE THOMPSON RIVER INTAKE	Intake	027	RAW
033	I	CLEAR WELL PUMP FACILITY 4	Pump Facility	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT

Lead and Copper Sample Pool Information

The supplier must collect lead and copper samples from different **Department - approved** sample sites below until the minimum number of samples required is collected. Contact your compliance specialist if there are questions about unapproved sites. The supplier can add, manage, or inactivate unavailable sample sites on the Data Portal at wqcdcompliance.com/login under My…Sample Sites. Sites have been grouped by sampling priority based on tier level:

- If present, **Tier 1** sites must be sampled unless reported as an unavailable high risk site.
- If present, **Tier 2** sites must only be sampled after all Tier 1 sites have been sampled or have been reported as an unavailable high risk site.
- If present, **Tier 3** sites must only be sampled after all Tier 1 and 2 sites have been sampled or have been reported as an unavailable high risk site.
- If present, **Non-Tier, Representative** sites must only be sampled after all Tier 1, 2, and 3 sites have been sampled or have been reported as an unavailable high risk site.

Unavailable high risk site reporting form is available at wqcdcompliance.com/lcr

TIER 1 - HIGHEST RISK SITES

State Assigned Sample Site ID (Required on Lab Chain of Custody)	Location Identifier	Current Status
LCR001	Sherman	Active - Sampling - Approved
LCR002	Watson	Active - Sampling - Approved
LCR008	McGrath	Active - Sampling - Approved
LCR012	Edmondson	Active - Sampling - Approved
LCR013	Reilly	Active - Sampling - Approved
LCR014	Byrd	Active - Sampling - Approved
LCR015	Plank	Active - Sampling - Approved
LCR018	Vanderwoude	Active - Sampling - Approved
LCR019	Hamann	Active - Sampling - Approved
LCR020	Peters	Active - Sampling - Approved
LCR011	Hart	Active - Backup - Approved
LCR016	HOLLEY	Active - Backup - Approved
LCR017	BLUM	Active - Backup - Approved
LCR021	KUREK	Active - Backup - Approved
LCR022	GILLIAM	Active - Backup - Approved
LCR023	GALA	Active - Backup - Approved
LCR024	MIURA	Active - Backup - Approved
LCR025	DUTCHER	Active - Backup - Approved

NO TIER 2 - SECOND HIGHEST RISK SITES HAVE BEEN IDENTIFIED

TIER 3 - THIRD HIGHEST RISK SITES		
State Assigned Sample Site ID (Required on Lab Chain of Custody)	**Location Identifier**	**Current Status**
LCR005	Shaw	Active - Backup - Approved
LCR009	Swanger	Active - Backup - Approved
LCR010	Bigger	Active - Backup - Approved
LCR026	Fitzgerald	Active - Backup - Approved
LCR027	Toal	Active - Backup - Approved

NO NON-TIER, REPRESENTATIVE - FOURTH HIGHEST RISK SITES HAVE BEEN IDENTIFIED

Time Period Definitions		
Time Period	**Start Date**	**End Date**
First Quarter	January 1, 2023	March 31, 2023
Second Quarter	April 1, 2023	June 30, 2023
Third Quarter	July 1, 2023	September 30, 2023
Fourth Quarter	October 1, 2023	December 31, 2023
First 6 Months	January 1, 2023	June 30, 2023
Second 6 Months	July 1, 2023	December 31, 2023
Year	January 1, 2023	December 31, 2023

Analyte Group Definitions		
Analyte Group Name	**Analytes in Group**	**Number of Analytes in Group**
INORGANICS GROUP	ANTIMONY | ARSENIC | BARIUM | BERYLLIUM | CADMIUM | CHROMIUM | MERCURY | NICKEL | SELENIUM | SODIUM | THALLIUM	11
SYNTHETIC ORGANICS GROUP	1,2-DIBROMO-3-CHLOROPROPANE | 2,4,5-TP | 2,4-D | ALDICARB | ALDICARB SULFONE | ALDICARB SULFOXIDE | ATRAZINE | BENZO(A)PYRENE | BHC-GAMMA | CARBOFURAN | CHLORDANE | DALAPON | DI(2-ETHYLHEXYL) ADIPATE | DI(2-ETHYLHEXYL) PHTHALATE | DINOSEB | DIQUAT | ENDOTHALL | ENDRIN | ETHYLENE DIBROMIDE | HEPTACHLOR | HEPTACHLOR EPOXIDE | HEXACHLOROBENZENE | HEXACHLOROCYCLOPENTADIENE | LASSO | METHOXYCHLOR | OXAMYL | PENTACHLOROPHENOL | PICLORAM | SIMAZINE | POLYCHLORINATED BIPHENYLS (PCB) | TOXAPHENE	31
VOLATILE ORGANICS GROUP	1,1,1-TRICHLOROETHANE | 1,1,2-TRICHLOROETHANE | 1,1-DICHLOROETHYLENE | 1,2,4-TRICHLOROBENZENE | 1,2-DICHLOROETHANE | 1,2-DICHLOROPROPANE | BENZENE | CARBON TETRACHLORIDE | CHLOROBENZENE | CIS-1,2-DICHLOROETHYLENE | DICHLOROMETHANE | ETHYLBENZENE | O-DICHLOROBENZENE | P-DICHLOROBENZENE | STYRENE | TETRACHLOROETHYLENE | TOLUENE | TRANS-1,2-DICHLOROETHYLENE | TRICHLOROETHYLENE | VINYL CHLORIDE | XYLENES (TOTAL)	21

COLORADO
Department of Public Health & Environment

APPENDIX A: Backflow Prevention and Cross-connection Control

<<Pinewood Springs Water District Co0135610>> BPCCC Program

Purpose

This Backflow Prevention and Cross-connection Control Program outlines how the supplier of water specified below will implement its written BPCCC program and achieve compliance with Regulation 11.

Other potentially applicable backflow prevention and cross-connection control requirements are specified in Article 1-114 and Article 1-114.1 of Title 25 of the Colorado Revised Statutes and in the Colorado Plumbing Code. The department has developed Safe Drinking Water Program Policy 7 to assist public water systems achieve compliance with Regulation 11.

Public Water System Name & PWSID:	Pinewood Springs Water District. Co0135610
Public Water System Owner:	Pinewood Springs Water District.
BPCCC Administrative Contact:	Robert Longworth
Address:	183 Cree Ct.
	Lyons Co. 80540
Email:	pswdorc@gmail.com
Phone:	303-823-5926

Signatures of Owner or Administrative Contact:

Effective Date	Name	Signature
8/24/22	Robert Longworth	*Robert Longworth*

This BPCCC program will include and specify information regarding how this supplier identifies cross connections, performs surveys, and controls identified cross connections. This BPCCC program also address how this supplier will require that backflow prevention assemblies and methods be tested and inspected annually, how this supplier will track the installation, maintenance, and testing of assemblies and methods and how this supplier will ensure that assemblies are tested by a *Certified Cross-Connection control Technician(Regulation 11.37(1)(b)*.

****This program must be kept on file for review by the department. It can be revised by the department as necessary.

Water Quality Control Division

4300 Cherry Creek Drive South Denver, Colorado 80246

Backflow Prevention and Cross-connection Control Program

(i) Process for conducting surveys.

Visual inspections, on site surveys.

(ii) Legal authority to perform a survey of a customer's property to determine whether a cross connection is present unless the supplier controls all non-single-family residential connections to the public water system with the most protective backflow prevention assembly or backflow prevention method.

{ } Ordinance (attach copy) {x } User Agreements (attach copy) { } Other – explain below

Please see Pinewood springs water districts website,
https://pwswd.com/documents/

(iii) Process to select a backflow prevention assembly or backflow prevention method to control a cross connection.

Current plumbing code and state regulations.

(iv) Legal authorities to install, maintain, test, and inspect backflow prevention assemblies and/or backflow prevention methods and/or require customers to install, maintain, test, and inspect backflow prevention assemblies and/or backflow prevention methods.

{ } Ordinance (attach copy) {x } User Agreements (attach copy) { } Other – explain below

Please see PSWD user agreement on linked website.
https://pwswd.com/documents/

(v) Process to track the installation, maintenance, testing, and inspection of all backflow prevention assemblies and backflow prevention methods used to control cross connections.

Visual and verified inspections by certified personnel.

(vi) The process the supplier will use to ensure backflow prevention assemblies are tested by a Certified Cross-Connection Control Technician.

Annual inspection of records and/ or inspection of equipment.

Backflow Prevention and Cross-connection Control Program

Department Notification

If we become aware of a suspected or confirmed backflow contamination event, the supplier must notify and consult with the department on any appropriate corrective measures no later than 24 hours after learning of the backflow contamination event. The notification should be made to the **24-hour Environmental Release and Incident Report Hotline at 1-877-518-5608.**

When reporting the event, please have available the as much of the following information as possible:

- Date and time of event;
- Location of event;
- Type of threat or event;
- Public Water System Name and Identification Number;
- Water supplier contact name and phone number;
- Method of discovery (consumer complaint, witness, perpetrator, employee report);
- Response actions taken (water quality parameter testing, isolation of affected water);
- Recovery actions taken;
- Notifications made (customers, law enforcement, news media, etc.);
- Assessment of threat, if possible.

Regulation 11.39(7) requires that we notify the department within 48 hours in any instance the supplier becomes aware of any backflow prevention and cross-connection control violation and any backflow prevention and cross-connection control treatment technique violation specified in Regulation 11.39(6).

Such notifications to the department can be written, verbal, or made by other means. The department can be notified via telephone at 303.692.2000 and contacting the department's Water Quality Control Division's backflow prevention and cross connection control specialist. The department can also be notified via the Drinking Water Portal sent to the attention of the backflow prevention and cross-connection control specialist. The Drinking Water Porta can be found online at: https://wqcdcompliance.com/login

Public Notice Requirements

Regulation 11.39(7) requires that suppliers distribute Tier 2 public notice as specified in Regulation 11.33 in any instance the supplier becomes aware of any backflow prevention and cross-connection control treatment technique violation.

Regulation 11.39(7) requires that suppliers distribute Tier 3 public notice as specified in Regulation 11.33 a in any instance the supplier becomes aware of any backflow prevention and cross-connection control violation.

Please contact your department assigned compliance officer with any questions regarding public notice.

Backflow Prevention and Cross-connection Control Program

(i) Survey Process and Documentation

Suppliers must survey all non-single-family-residential connections to the public water system to determine if the connection is a cross connection. The supplier must also survey all connections within the supplier's waterworks to determine if there are any cross connections present which could contaminate the public water systems or the facilities water supply system.

The supplier must identify the total number of non-single-family-residential connections to the public water system and connections within the supplier's waterworks. This number is the total number of connections to the public water distribution system that are not considered single – family connections. Acceptable survey process documentation includes the following: How the supplier will select service connections that need a survey; For example: Usage type - commercial, industrial, or multi-family; new or newly acquired connections; and/or questionnaire results.

Single-family means:

- A single dwelling which is occupied by a single family and is supplied by a separate service line;
- A single dwelling comprised of multiple living units where each living unit is supplied by a separate service line.
- If a water supplier has ownership and maintenance responsibilities of a service line up to a point of single-connections such connections may be considered a single-family-residential-connection even if this connection is to a multi-family dwelling unit. It is important to be aware that all other applicable parts of Regulation 11 will also apply to those new acquired waterworks (i.e. distribution system) and that any irrigation or other cross connections that are directly connected to the newly acquired service line would have to be controlled in accordance with Regulation 11.39.

Once the supplier has identified the total number of non-single family residential connections, the supplier must survey the connections to identify cross connections. The supplier must document the process for conducting surveys. Surveys can be performed onsite by a person designated by public water system or can be of a questionnaire type. The supplier's survey process should identify potential service connections and uses that when identified may trigger cross-connection control requirements. The supplier's process should address how the supplier will select individuals to perform the survey including experience and/or training or certification qualifications to perform a survey. Additionally the supplier must survey any waterworks and water supply systems associated with those facilities for cross connections.

If the supplier uses questionnaires, various methods may be used to distribute the questionnaires: email surveys, web-based surveys, written surveys, or telephone surveys. Questionnaires should provide examples of common cross connections to the customer who completes the survey. Questionnaires should ask that the property-owner indicate that the information is accurate to the best of their knowledge. If the supplier does not receive a response to a questionnaire or the results are inconclusive, the supplier is required to perform an onsite survey for cross connections or control the connection with the most protective backflow prevention assembly or method.

The results of surveys should be kept in a manner that allows the supplier to demonstrate that a survey has been performed and if any action was required based on the results of the survey.

It is important that newly constructed and renovated buildings are constructed in accordance with the local plumbing code. The code is intended to protect the internal potable water system and its occupants from contamination that can be introduced via restrooms, kitchens, boilers, irrigation, HVAC systems, etc. It is equally important that the water supplier protect their distribution system from

contamination that can be introduced via car washes, auxiliary water sources, fire suppression systems, irrigation and many other sources. Water suppliers need to perform cross connection identification surveys to identify potential cross connections within their distribution system.

***Note to supplier. Describe in this section how the supplier complies with the regulation and its survey requirements

(ii & iv) Legal Authority

The supplier must have a legally-enforceable mechanism that implements its written backflow prevention and cross connection control program as described in 11.39(2). The department recommends that the legally-enforceable mechanisms include specific provisions identifying customer requirements under 11.39(2)(a)(ii, iv) and the associated remedies that the supplier may utilize for failure of customer(s) to comply. If the supplier does not have a legally-enforceable mechanism in place, the department expects the supplier to perform the actions necessary to complete the indicated requirements in the regulation.

***Note to supplier. Provide a copy of the ordinance or user agreement in this section or discuss how the supplier implements the actions necessary to complete the indicated requirements in the regulation. As a reminder suppliers are prohibited from installing or permitting any uncontrolled cross connection to the distribution system or within the supplier's waterworks.

- Installing an uncontrolled cross connection means modifications or additions to waterworks or water supply systems that create a cross connection. The supplier is prohibited from intentionally performing any actions which would result in the creation of a cross connection.
- Permitting an uncontrolled cross connection in the context of Regulation 11.39 means the supplier has allowed their users or customers to continue to have an uncontrolled cross connection past the regulatory-defined timelines. If the regulatory-defined timelines have elapsed and the supplier has not taken any of the following actions; control the cross connection, remove the cross connection or suspends service to the identified connection***, then the supplier is allowing, or permitting, the cross connection to exist and is in violation of Regulation 11.

  *** Note to supplier. Before suspension of service can be considered appropriate action the department expects that the supplier will confirm the following:

- The connection downstream of the valve used to suspend the service does not remain pressurized because the customer has access to an alternative source of water or a storage tank onsite
- If the cross connection is to a fire suppression system; suspension of service would not result in the building being inadequately protected from loss of life through fire. If there are service connections at the property separate from the fire suppression system causing the cross connection, a supplier may suspend service to one or all of those other service lines (e.g. domestic or irrigation) as an appropriate action.

- The supplier may receive a department approved alternative compliance schedule for identified cross connections that have not been controlled within 120 days. Department-approval of an alternative compliance schedule means either an email or other written communication from the department. The department has provided in APPENDIX C – BPCCC Rule 120-Day Cross-connection Control Extension Application for such request.

- Suppliers must specify the process that the water system will use to require the installation, maintenance, testing, and inspection of all backflow prevention assemblies and backflow prevention methods used to control cross connections. Generally, this is specified in one of the following: local government ordinances, user agreements or the public water system assumes full responsibility.

(iii) Identification of Cross Connections and Backflow Prevention Assembly or Backflow Prevention Method Selection

If the supplier discovers an uncontrolled cross connection and believes that a backflow contamination event has not occurred, the supplier must: first determine the type of backflow prevention assembly or backflow prevention method needed to control the cross connection and second install and maintain or require the customer to install and maintain a backflow prevention assembly or backflow prevention method at the uncontrolled cross connection, suspend service to the customer, or remove the cross connection, no later than 120 days after its discovery.

***Note to supplier. Suppliers should include in the written BPCCC program guidelines and criteria used to select the type of backflow prevention assembly or method used to control an identified cross connection. Guidelines and criteria should address examples of cross connections throughout the water systems distribution system along with the corresponding appropriate backflow prevention assembly and or backflow prevention method used to control the identified cross connection. Part 4.3 of SDWP Policy 7 provides various examples of backflow prevention assemblies and methods and when the use of such assemblies and methods may be appropriate.

(v & vi) Tracking & Certified Tester Verification

Suppliers must specify the tracking mechanism it will use to verify the installation, maintenance, testing, and inspection of all backflow prevention assemblies and backflow prevention methods used to control cross connections. This section may include the process the supplier will use to ensure backflow prevention assemblies are tested by a Certified Cross-Connection Control Technician

***Note to supplier. Please provide a tracking spreadsheet or description of program or other method which the supplier is using to verify performance and compliance with Regulation 11.

i. To be considered adequate, test reports used to document compliance with Regulation 11 must include all of the following:

Assembly or method information:

a. Assembly or method type;
b. Assembly or method location;
c. Assembly make, model and serial number;
d. Assembly size;
e. Test date; and,
f. Test result (pass/fail).

Certified Cross-Connection Control Technician information:

a. Certified Cross-Connection Control Technician certification agency;
b. Certification number;
c. Certification expiration date or statement that certification is current;
d. As an alternative to a-c, suppliers may provide documentation of an alternative validation process such as electronic login to reporting software where only current, certified cross-connection control technicians (or their companies) are given a login.

Delegation Plan for Multiple Tasks and Activities

Items marked with an asterisk (*) are required by Regulation 100.

***Name of Facility**	Pinewood Springs Water District	***PWSID #, Permit # or Permit Certification #**		CO 0135610
***Operator in Responsible Charge**	Robert Longworth	***Effective date (from)**	8/28/2023	***Termination or renewal date (to) –** must be within 12 months of effective date

***Task or activity description**	***Delegation to [Authorized person(s) or position(s)]**	***Operational limits and response (required if not included in written SOP)**	**Date of training provided by ORC to authorized individual(s)**	**Authorized person's signature indicating acceptance of task or activity (required if not included in written job description)**
Plant Startup	Robert Longworth		9/7/2021	
Clean In Place	Robert Longworth		9/8/2021	
Leak Repair	Robert Longworth		9/9/2021	
New Mainline and Service Construction	Robert Longworth		9/10/21	
Clearwell Chlorine Sampling	Robert Longworth		9/7/2021	
Distribution Coliform Sapmling	Robert Longworth		9/7/2021	
All other lab sampling	Robert Longworth		9/9/2021	

Pinewood Springs Water Budget 2023	2021	2022	2023
	Actuals	**Actuals**	**Proposed**
PAGE 1			
Beginning Funds Available	79,806	73,164	76,833
Income			
Operating Income			
Tap Fees	45,831	0	0
Pit Installs	0	0	0
Total Water Bill income			
Base Rate X 302 households	198,016	225,700	235,560
Water Charges (avg 2100)	52,447	66,665	60,883
Usage fines, late & disc chrgs,	2,196	5,751	3,000
System Improvment Fees*****	94,848	112,850	130,464
Total Operating Income	393,338	410,966	429,907
Non-Operating Income			
Debt Service / Storage Tanks			
Debt Service / property taxes-	223,845	228,576	223,845
Interest Income	489	7,226	1,500
SO Taxes (Auto)	16,368	16,316	13,000
Misc. (Customer Repairs)			
Total Non-Operating Income	240,702	252,118	238,345
Transfer from Savings	133,260	80,000	
Total Income	767,300	663,084	668,252
Total Revenue and Beginning Funds	847,106	736,248	745,085

Page 2		2021	2022	2023
Expenses		Actuals	**Actuals**	**Proposed**
Administrative Expenses				
Auditor		14,000	14,500	16,000
Bookkeeping		375	575	800
Advertising/Recruitment		182	333	400
Bond Agent Fee		0	0	0
Bank Charges		200	165	200
Board Compensation		5,200	5,400	8,500
Contract Labor		3,070	3,160	3,500
County treasurer's fee		4,560	4,573	5,000
Dues		3,573	3,103	4,000
Education/Training		1,230	1,797	2,000
Legal Fees				
Attorney - Business (Hummel)		218	0	1,000
Attorney - (2025 Holleman)		0	0	4,000
Miscellaneous (Equipment		0	0	0
Office Supplies/Postage		4,357	3,340	3,500
Rent - Firehouse		0	0	0
Salary Expense		44,512	46,764	49,000
Taxes - Payroll		8,431	3,535	4,000
Telephone (Administration)		2,169	1,317	1,500
Travel: Mileage & Transp.		307	249	400
Total Administrative Exp.		92,384	88,811	103,800

Page 3		2021	2022	2023
Operating Expenses		Actuals	**Actuals**	**Proposed**
Backhoe Repairs & Maint.& fuel		1,712	1,556	8,000
Contract labor		2,815	484	5,000
Dues & Training		3,223	1,200	2,000
Salary Expense		135,716	110,473	117,000
Taxes - Payroll		10,536	8,400	10,000
Insurance -		17,193	26,000	27,660
Telephone & Internet		1,464	1,516	2,000
Utilities:				
Electricity		20,394	19,040	20,160
Propane		1,623	1,339	2,000
Waste Removal		1,443	1,421	2,000
Property Mitigation				10,000
Vehicle Expenses			0	
Gasoline/Fuel		5,994	5,191	6,000
License Fees		25	10	10
Repairs & Maintenance		19,131	4,628	9,000
Water Supplies & Chemicals		13,451	22,345	23,000
Water Storage (augmen.water)		602	602	610
Water Shares Rental		0	0	0
System Rep & Maint.		107,995	82,236	129,000
Water Testing		3,863	1,320	4,000
Total Operating Expenses		347,180	287,761	377,440

Page 4				
NON-OPERATING EXPENSE		**2021**	**2022**	**2023**
		actuals	**Actuals**	**Proposed**
Capital Expenditures				
CUPS RESERVE/Hauling				
Survey (dam)				
Aeration Project/dredging				
Equipment Replacement Fund				40,000
System Improvements (Filtration		30,738	0	
Tank maintenance & Repair		126,925	133,442	0
PipeLine to low zone tank				
System Rehabilitation Project				
Grant $$ yet to be received				
Total Capital Expenditures		157,663	133,442	40,000
		2021	**2022**	**2023**
Other Non-Operating Exp.		Actuals	**Actuals**	**Proposed**
Grant Expense				
Bond Principal				
Bond Interest				
Debt Loan Srv		8,617	**8,617**	**8,617**
Debt Loan Srv		52,628	**52,628**	**52,628**
Debt Loan Service CWCB		162,600	**162,600**	**162,600**
Total Other Non-Op. Exp		223,845	223,845	223,845
Total Non-Ops Expenses		223,845	223,845	223,845
TOTAL EXPENSES and Expenditures		821,072	733,859	745,085
Total Income and Beginning		847,106	736,248	745,085
Less Total Expenses and		821,072	733,859	745,085
				0
Net Increase (Decrease) in				
Funds Available End of Year		26,034	2,389	

I, Gabriele Benson, District Clerk, certify that the attached is an accurate copy of the adopted 2023 budget of the Pinewood Springs Water District.

Renewal Documents and Invoice
1/1/2023 to EOD 12/31/2023

Acceptance of this coverage is evidenced only by payment of the enclosed invoice by January 1, 2023.

The following renewal documents are attached where applicable:

1. Invoice: Payment is due upon receipt. Please return a copy of the invoice with your payment to ensure that it is applied correctly. We have attached a Coverage Contribution instructions sheet which provides details about your payment.

2. Comparison of Annual Contributions.

3. Deductible Options:
   - Provides the difference in cost by coverage line if you were to increase or decrease the deductible for that specific coverage.

4. Quote for Excess Liability limits for your consideration:
   - Limits of up to $8 million, in excess of the primary $2 million Liability limit, are available. Although the primary $2 million Liability limit is sufficient to cover the CGIA tort cap, we do recommend you consider purchasing higher limits primarily due to special districts' unlimited liability to federal civil rights, discrimination, harassment, whistle blowing, and other employment-related practices claims.

5. Coverage Declaration Pages: Informational page summarizing the key points about the coverage provided including limits and deductible descriptions for all coverage provided. Full coverage forms will be available at csdpool.org/documents by January 1, 2023.

6. Schedules: Lists of exposures and values.

7. Certificates of coverage: Originals are mailed directly to the Certificate Holders.

8. Automobile identification cards: Hard copies will be mailed.

Colorado Special Districts
Property and Liability Pool

Property and Liability Coverage

Invoice

Named Member:
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

Broker of Record:
ISU Insurance Services of Colorado
350 Indiana St., Suite 750
Golden, CO 80401

Coverage No.	Entity ID	Effective Date	Expiration Date	Invoice Date
23PL-54404-3299	54404	1/1/2023	EOD 12/31/2023	12/22/2022

Coverage	Contribution
Auto Liability	$1,118.00
Auto Physical Damage	$786.00
General Liability	$2,488.00
Property	$8,279.00
Crime	$340.00
Non-Owned Auto Liability	$132.00
Hired Auto Physical Damage	$65.00
Equipment Breakdown	$830.00
No-Fault Water Intrusion & Sewer Backup	$403.00
Public Officials Liability	$734.00
Excess	$585.00
Pollution	$100.00

Total Contribution	**$15,860.00**
Estimated Annualized Contribution (for budgeting purposes only)	$15,860.00

Total contribution includes commission paid to the Broker reflected above

Please note: where included above, Hired Auto Physical Damage and Non-Owned Auto Liability are mandatory coverages and may not be removed. No-Fault Water Intrusion & Sewer Backup coverage may only be removed with completion of the No-Fault Opt Out Endorsement.

The following discounts are applied (Not applicable to minimum contributions):

13.78% Continuity Credit Discount

Payment Due Upon Receipt

Payment evidences "acceptance" of this coverage. The terms of the Intergovernmental Agreement (IGA) require timely payment to prevent automatic cancellation of coverage. Please return this invoice and reference the coverage number on your check to help us apply your payment correctly. Only prior notice to the board of directors of the Colorado Special Districts Property and Liability Pool and subsequent approval may extend cancellation provision.

Remit checks to: Colorado Special Districts Property and Liability Pool
c/o McGriff Insurance Services, Inc.
PO Box 1539
Portland, OR 97207-1539

We accept online payments at E-Bill Express
Refer to Payment Instructions page for additional options
billing@csdpool.org
800-318-8870 ext. 3

Colorado Special Districts
Property and Liability Pool

Payment Instructions

The annual contribution for coverage with the Pool is due upon receipt of this invoice.

We accept the following payment methods:

1. Online using **E-Bill Express** (www.e-billexpress.com/ebpp/CSDPool). For detailed instructions, please click here or go to csdpool.org/documents. You can also find an FAQ here or go to the E-Bill Express logon screen.

2. Mail your check to:

   Colorado Special Districts Property and Liability Pool
   c/o McGriff Insurance Services, Inc.
   PO Box 1539
   Portland, OR 97207

   For express or overnight mail services, please use the address below:

   Colorado Special Districts Property and Liability Pool
   c/o McGriff Insurance Services, Inc.
   1800 SW 1st Ave, Suite 400
   Portland, OR 97201

   To ensure that your payment is accurately applied, please always include a copy of the invoice.

3. Wire or ACH transfer from your own bank account. Please let us know if you wish to use this method and we will be happy to provide you with these instructions.

Please be advised that in accordance with the Intergovernmental Agreement (IGA), automatic expulsion will occur on the 60th day should your account not be current. If you wish to reinstate your district's coverage after cancellation has occurred, a $100 reinstatement fee will apply.

If your district requires a payment extension, please submit a written request within ten (10) business days from the date of the invoice, for consideration by the CSD Pool Board of Directors.

Finally, all members of the Pool must be members in good standing with the Special District Association of Colorado (SDA). Please visit the SDA website at sdaco.org for member information.

Please contact us at billing@csdpool.org or 800-318-8870 ext. 3 for billing questions.

Colorado Special Districts
Property and Liability Pool

Annual Comparison of 2023 and 2022 contributions.
Loss Ratios based on participation years from 2015 to 2022

Pinewood Springs Water District

Year	Contribution
2023	$15,860.00
2022	$13,295.00
Difference	$2,565.00
% Difference	19.29%

General Liability	Contribution	TOE
Yr. 2023	$2,488.00	$654,508.00
Yr. 2022	$2,471.00	$642,775.00
Difference	$17.00	$11,733.00
% Difference	0.69%	1.83%
Loss Ratio	0.00%	

Equipment Breakdown	Contribution
Yr. 2023	$830.00
Yr. 2022	$694.00
Difference	$136.00
% Difference	19.60%
Loss Ratio	0.00%

Auto Liability	Contribution	Auto Count
Yr. 2023	$1,250.00	3
Yr. 2022	$1,217.00	3
Difference	$33.00	0
% Difference	3.04%	0.00%
Loss Ratio	40.18%	

Crime	Contribution
Yr. 2023	$340.00
Yr. 2022	$337.00
Difference	$3.00
% Difference	0.89%
Loss Ratio	0.00%

Auto Physical Damage	Contribution	TIV
Yr. 2023	$851.00	$0.00
Yr. 2022	$843.00	$0.00
Difference	$8.00	$0.00
% Difference	1.03%	0.00%
Loss Ratio	197.67%	

Public Officials Liability	Contribution	EE Count
Yr. 2023	$734.00	4
Yr. 2022	$702.00	4
Difference	$32.00	0
% Difference	4.56%	0.00%
Loss Ratio	0.00%	

Property/Inland Marine	Contribution	TIV
Yr. 2023	$8,279.00	$3,254,025.00
Yr. 2022	$5,957.00	$1,880,072.00
Difference	$2,322.00	$1,373,953.00
% Difference	38.98%	73.08%
Loss Ratio	0.00%	

Excess Liability	Contribution
Yr. 2023	$585.00
Yr. 2022	$574.00
Difference	$11.00
% Difference	1.92%
Loss Ratio	0.00%

Earthquake	Contribution
Yr. 2023	$0.00
Yr. 2022	$0.00
Difference	$0.00
% Difference	0.00%
Loss Ratio	0.00%

Flood	Contribution
Yr. 2023	$0.00
Yr. 2022	$0.00
Difference	$0.00
% Difference	0.00%
Loss Ratio	0.00%

No Fault	Contribution
Yr. 2023	$403.00
Yr. 2022	$400.00
Difference	$3.00
% Difference	0.75%
Loss Ratio	0.00%

Colorado Special Districts
Property and Liability Pool

Deductible Options

Pinewood Springs Water District
Based on Coverage 23PL-54404-3299 data as of 12/22/2022

Auto Liability

$0.00	$1,504.00
$500.00	$1,198.00
$1,000.00	$1,118.00
$2,500.00	$1,038.00
$5,000.00	$958.00
$7,500.00	$925.00
$10,000.00	$879.00

General Liability

$0.00	$3,325.00
$500.00	$2,648.00
$1,000.00	$2,488.00
$2,500.00	$2,329.00
$5,000.00	$2,169.00
$7,500.00	$2,107.00
$10,000.00	$2,009.00

Auto Physical Damage

Comprehensive and Collision Deductibles

Both $500.00	$786.00
Both $1,000.00	$566.00
Both $2,000.00	$530.00
Both $2,500.00	$511.00
Both $5,000.00	$486.00
Both $7,500.00	$460.00
Both $10,000.00	$441.00

Property

Property and Inland Marine Deductibles (IM Max

Both $250.00	*$9,860.00*
Both $500.00	*$8,431.00*
Both $1,000.00	*$8,279.00*
Both $2,500.00	*$8,148.00*
Both $5,000.00	*$7,840.00*
Property $7,500.00	*$7,717.00*
Property $10,000.00	*$7,586.00*
Property $25,000.00	*$7,169.00*
Property $50,000.00	*$6,727.00*
Property $100,000.00	*$6,309.00*

$5,000)

No-Fault

$500.00	$403.00
$1,000.00	$282.00
$2,500.00	$262.00
$5,000.00	$201.00
$7,500.00	$181.00

Public Officials Liability

EPLI $100,000 &:

POL $1,000.00	$734.00
POL $2,500.00	$727.00
POL $5,000.00	$710.00
POL $7,500.00	$693.00
POL $10,000.00	$676.00

POL $1,000 &:

EPLI $5,000.00	$1,952.00
EPLI $7,500.00	$1,749.00
EPLI $10,000.00	$1,546.00
EPLI $25,000.00	$1,140.00
EPLI $50,000.00	$937.00
EPLI $100,000.00	$734.00

Equipment Breakdown

$1,000.00	$830.00
$2,500.00	$814.00
$5,000.00	$739.00
$7,500.00	$722.00
$10,000.00	$698.00

Colorado Special Districts
Property and Liability Pool

2023 Excess Liability Options Proposal

This Proposal Does Not Bind Coverage

This report demonstrates what it would cost your district to increase coverage from your current limit of liability to a higher limit.

Named Member: Pinewood Springs Water District

Certificate Number: 23PL-54404-3299

Excess Limit	Annual Excess Contribution	Change in Contribution
$1,000,000*	$585	$0
$2,000,000	$847	$262
$3,000,000	$974	$389
$4,000,000	$1,020	$435
$5,000,000	$1,250	$665
$6,000,000	$1,500	$915
$7,000,000	$1,750	$1,165
$8,000,000	$2,000	$1,415

*** This is your current excess limit.**

Note: This is not your Coverage Document. It was created solely for informational purposes.

12/22/2022

Colorado Special Districts
Property and Liability Pool

Public Entity Liability and Auto Physical Damage Certificate Holder Declaration

Master Coverage Document Number: CSD Pool CTC 01 01 22 and CSD Pool PEL 01 01 23
Certificate Number: 23PL-54404-3299
Coverage Period: 1/1/2023 to EOD 12/31/2023

Named Member:
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

Broker of Record:
ISU Insurance Services of Colorado
350 Indiana St., Suite 750
Golden, CO 80401

Coverage is provided only for those coverages indicated below for which a contribution is shown.

Coverage	Per Occurrence Limit	Annual Aggregate Limit	Deductible	Contribution
Public Entity Liability Coverage including:	$2,000,000	None		
General Liability	Included	None	$1,000	$2,488
Medical Payments - Premises	$10,000	None	None	Included
Employee Benefits Liability	Included	None	$1,000	Included
Public Officials Liability	Included	None	$1,000	$734
Employment Practices Liability	Included	None	*$100,000	Included
Pre Loss Legal Assistance	$3,500	$7,000	None	Included
No-Fault Water Intrusion & Sewer Backup	$200,000 limited to $10,000 Any One Premises	***$1,000,000	$500	$403
Cyber	$200,000	**$200,000	$1,000	Included
Fiduciary Liability	$200,000	**$200,000	$1,000	Included
Excess Liability - Coverage agreements	$1,000,000	None	None	$585
Auto Liability	Included	None	$1,000	$1,118
Medical Payments – Auto	$10,000	None	None	Included
Non-Owned and Hired Auto Liability	Included	None	None	$132
Uninsured/Underinsured Motorists Liability	Included	None	None	Included
Auto Physical Damage	Per Schedule	Per Schedule	Per	$786
Hired Auto Physical Damage	$50,000	N/A	$500/$500	$65
Auto Physical Damage - Employee Deductible	$2,500	N/A	None	Included
			Total Contribution	$6,311

*Employment Practices Liability Deductible: 50% of loss including Indemnity and Legal Expenses subject to a maximum deductible of $100,000 each occurrence.
**A $5,000,000 All Member Annual Aggregate Limit shall apply to Cyber.
**A $1,000,000 All Member Annual Aggregate Limit shall apply to Fiduciary Liability.
***No-Fault Water Intrusion & Sewer Backup has $1,000,000 All Member Annual Aggregate Limit.

Additional Endorsements applicable to Member:

This Certificate Holder Declaration is made and is mutually accepted by the CSD Pool and the Named Member subject to all terms which are made a part of the Public Entity Liability Coverage Document. This Certificate represents only a brief summary of coverages. Please refer to the Master Coverage Document for actual coverage, terms, conditions, and exclusions.

Countersigned by: _____
Authorized Representative

Colorado Special Districts
Property and Liability Pool

Property Certificate Holder Declaration

Master Coverage Document Number: CSD Pool CTC 01 01 22 and CSD Pool Property 01 01 23
Certificate Number: 23PL-54404-3299
Coverage Period: 1/1/2023 to EOD 12/31/2023

Named Member:
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

Broker of Record:
ISU Insurance Services of Colorado
350 Indiana St., Suite 750
Golden, CO 80401

Limit of Coverage per Occurrence:

$3,254,025	Reported Buildings, Business Personal Property, Other Scheduled Items, Outdoor Property and EDP per Schedule.
$250,000	Business Income including Extra Expense/Rental Income sublimit unless a higher amount is specified on Schedule.
$75,900	Inland Marine Scheduled items.
$0	Excess of $2,000,000 Earthquake Limit per occurrence and annual aggregate per Property Schedule.
$0	Excess of $2,000,000 Flood Limit per occurrence and annual aggregate per Property Schedule. Flood Zone A and Flood Zone V are subject to an all member combined limit of $60,000,000 per occurrence and annual aggregate.

Locations Covered: Per Schedules on file. Property in Course of Construction must be shown on the Schedule to be covered.

Report of Values: Annual Statement of Values must be submitted and additions/deletions are to be reported as they occur.

Perils Covered: Risk of Direct Physical Loss subject to the terms, conditions, and exclusions in the Master Property Coverage Document.

Deductibles: $1,000 Per Occurrence, except where noted on Member's Schedules

Earthquake - 2% Per Occurrence of the value of the covered damaged property at the time of loss, subject to a $5,000 minimum and $50,000 maximum.
Flood - 2% Per Occurrence of the value of the covered damaged property at the time of loss, subject to a $5,000 minimum and $50,000 maximum.

Contribution: $8,279

Additional Endorsements applicable to Member:

Cosmetic Damage Exclusion
Wind and Hail Deductible Endorsement

This Certificate Holder Declaration is made and is mutually accepted by the CSD Pool and the Named Member subject to all terms which are made a part of the Property Coverage Document. This Certificate represents only a brief summary of coverages. Please refer to the Master Coverage Document for actual coverage, terms, conditions, and exclusions.

Countersigned by: _____
Authorized Representative

Colorado Special Districts
Property and Liability Pool

PROPERTY ENDORSEMENT

Named Member: Pinewood Springs Water District	**Property Form No:** CSD Pool Property 01 01 23
Certificate Number: 23PL-54404-3299	**Effective Date of Endorsement:** 1/1/2023
Issued By: Colorado Special Districts Property and Liability Pool	

This endorsement modifies coverage provided under the following:

PROPERTY COVERAGE DOCUMENT

WIND AND HAIL DEDUCTIBLE

PLEASE READ IT CAREFULLY

The following is added to Section 2. **DEDUCTIBLE**:

E. Wind and/or Hail damage to a building or structure identified in the **Member District** property schedule as **Real Property** or **Outdoor Property**:

In respect to Member District's whose total scheduled property values are below $25M, 2% per **Occurrence** of the value of the covered damaged property and applicable business income at the time the loss occurs, subject to a $5,000 minimum and $50,000 maximum per **Occurrence**, unless a higher deductible is scheduled at the damaged location.

In respect to Member District's whose total scheduled property values are over $25M, 2% per **Occurrence** of the value of the covered damaged property and applicable business income at the time the loss occurs, subject to a $5,000 minimum and $75,000 maximum per **Occurrence**, unless a higher deductible is scheduled at the damaged location.

ALL OTHER TERMS AND CONDITIONS OF THE PROPERTY COVERAGE FORM REMAIN UNCHANGED.

Colorado Special Districts
Property and Liability Pool

PROPERTY ENDORSEMENT

Named Member: Pinewood Springs Water District	**Property Form No:** CSD Pool Property 01 01 23
Certificate Number: 23PL-54404-3299	**Effective Date of Endorsement:** 1/1/2023
Issued By: Colorado Special Districts Property and Liability Pool	

This endorsement modifies the coverage provided under the following:

PROPERTY COVERAGE DOCUMENT

COSMETIC DAMAGE EXCLUSION

PLEASE READ IT CAREFULLY

The following is added to Section 7 PERILS EXCLUDED:

V. Against **Cosmetic Damage** to **Roof Surfacing** caused by or resulting from wind and/or hail to a building or structure identified in the **Member District** property schedule as **Real Property** or **Outdoor Property**.

For purposes of this endorsement, the following is added to SECTION 32 ADDITIONAL DEFINITIONS:

Roof Surfacing means the shingles, tiles, cladding, metal or synthetic sheeting or similar materials covering the roof and includes all materials used in securing the roof surface and all materials applied to or under the roof surface for moisture protection, as well as roof flashing, vent covers and gutters.

Cosmetic Damage means that the wind and/or hail caused marring, pitting or other superficial damage that altered the appearance of the roof surfacing, but such damage does not prevent the roof from continuing to function as a barrier to entrance of the elements to the same extent as it did before the cosmetic damage occurred.

However, this exclusion shall not apply to **Cosmetic Damage** to the front entry, areas of **Roof Surfacing** visibly apparent to a pedestrian from the street or sidewalk composing less than 25% of the roof area of a **Member District's** scheduled building or structure identified as **Real Property** or **Outdoor Property**. The **Pool** will pay for **Cosmetic Damage** to such areas, limited to less than 25% of the roof area of the scheduled building or structure, subject to all other terms, conditions and exclusions of the Property Coverage Form.

ALL OTHER TERMS AND CONDITIONS OF THE PROPERTY COVERAGE FORM REMAIN UNCHANGED.

Colorado Special Districts
Property and Liability Pool

Equipment Breakdown Declarations

Master Coverage Document Number: CSD Pool EB 01 01 21
Certificate Number: 23PL-54404-3299 **Coverage Period:** 1/1/2023 to EOD 12/31/2023

Named Member:
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

Broker of Record:
ISU Insurance Services of Colorado
350 Indiana St., Suite 750
Golden, CO 80401

Covered Equipment:
Equipment that (1) generates, transmits or utilizes energy, including electronic communications and data processing equipment; or (2) which during normal usage, operates under vacuum or pressure, other than the weight of its contents.

Locations:
Property must be at a location described in the Named Member's current Schedule of Property on file with the CSD Pool and must be owned, leased, or operated under the control of the Member District.

Equipment Breakdown Limit: $1,440,635 Scheduled Property

Sub Limits:

Newly Acquired Locations (90 Days Reporting)	$2,500,000
Business Income / Extra Expense	$1,000,000
Expediting Expenses	$1,000,000
Rental Income	$1,000,000
Demolition & Increased Cost of Construction	$1,000,000
Off-Premises Equipment Breakdown	$500,000
Service Interruption	$250,000
Hazardous Substances	$250,000
Perishable Goods	$250,000
Data Restoration	$250,000
Green Property Upgrade	$100,000
Public Relations Coverage	$5,000

Deductible: $1,000 per Occurrence

Contribution: $830

This Equipment Breakdown Declarations is made and is mutually accepted by the CSD Pool and the Member District subject to all terms which are made a part of the Equipment Breakdown Coverage Document. This Certificate represents only a brief summary of coverages. Please refer to the Equipment Breakdown Coverage Document for actual coverage, terms, conditions, and exclusions.

Countersigned by: _____
Authorized Representative

Colorado Special Districts
Property and Liability Pool

Crime Certificate Holder Declaration

Master Coverage Document Number: J05931794
Certificate Number: 23PL-54404-3299

Insurer: Federal Insurance Company (Chubb)
Coverage Period: 1/1/2023 to EOD 12/31/2023

Named Member:
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

Broker of Record:
ISU Insurance Services of Colorado
350 Indiana St., Suite 750
Golden, CO 80401

Covered Designated Agent(s):

Coverages and Limits:

Employee Theft:	$25,000
· Limit is maximum for each loss	
· Employee includes executives, full-time, part-time, seasonal, leased and temporary employee(s), interns or non-compensated volunteer.	
· Includes funds from a sponsored benefit plan.	
Public Official Faithful Performance of Duty:	$25,000
Client Theft:	$25,000
Forgery or Alteration:	$25,000
On Premises:	$25,000
In Transit:	$25,000
Computer System Fraud:	$25,000
Funds Transfer Fraud:	$25,000
Debit, Credit or Charge Card Fraud:	$25,000
Money Orders and Counterfeit Paper Currency Fraud:	$25,000
Social Engineering Fraud:	$25,000

Deductible(s):

All Crime except Social Engineer Fraud:	$250
Social Engineering Fraud:	20% of Social Engineering Fraud Limit

Contribution: $340

Policy Forms:

PF-52815 (04/20)	The Chubb Primary℠ Commercial Crime Insurance
PF-52853 (04/20)	Governmental Entity (Colorado Special Districts Pool) Endorsement
PF-53127 (04/20)	Colorado Amendatory Endorsement
PF-52851 (04/20)	Add Corporate Credit Card Coverage

This Certificate Holder Declaration is made and is mutually accepted by the CSD Pool and the Named Member subject to all terms which are made a part of the Master Crime Policy. This Certificate represents only a brief summary of coverages. Please refer to the Master Policy Documents for actual coverage, terms, conditions, and exclusions.

Countersigned by: _____

Authorized Representative

Colorado Special Districts
Property and Liability Pool

Identity Recovery Certificate Holder Declaration

Master Coverage Policy Number:
CSD 2009 CP IDR Form 01 01 21

Insurer:
The Hartford Steam Boiler Inspection and Insurance Company

Certificate Number: 23PL-54404-3299

Coverage Period: 1/1/2023 to EOD 12/31/2023

Named Member:
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

Broker of Record:
ISU Insurance Services of Colorado
350 Indiana St., Suite 750
Golden, CO 80401

Member:
All permanent employees and District Board members participating in the Colorado Special Districts Property and Liability Pool; Special District Association of Colorado staff and Board of Directors.

Coverage:
Reimbursement coverage for expenses arising from a defined "Identity Theft" event. Including: legal fees for answer of civil judgements and defense of criminal charges; phone, postage, shipping fees; notary and filing fees; credit bureau reports; lost wages; child/elder care and mental health counseling.

This coverage does not reimburse the member for monies stolen or fraudulently charged to the member, and excludes loss arising from the member's fraudulent, dishonest or criminal act.

Annual Aggregate Limit per Member: **$35,000**

Case Management Service Expenses - does not reduce the limit available

Legal Costs - reduces the limit available

Sub Limits:

$5,000	Lost Wages and Child/Elder Care
$1,000	Mental Health Counseling
$1,000	Miscellaneous Expenses

Coverage Trigger: Coverage is provided on a discovery basis with a 60-day reporting requirement

Claims: For Recovery Assistance and Counseling, please call 1-800-945-4617

This Certificate Holder Declaration is made and is mutually accepted by the CSD Pool and the Named Member subject to all terms which are made a part of the Identity Recovery Coverage Policy. This Certificate represents only a brief summary of coverages. Please refer to the Master Coverage document for actual coverage, terms, conditions, and exclusions.

Countersigned by: _____

Authorized Representative

Colorado Special Districts
Property and Liability Pool

Environmental Legal Liability Certificate Holder Declaration

Master Policy Number: ER00A9V23
Certificate Number: 23PL-54404-3299
Named Member:
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

Insurer: Aspen Specialty Insurance Company
Coverage Period: 1/1/2023 to EOD 12/31/2023
Broker of Record:
ISU Insurance Services of Colorado
350 Indiana St., Suite 750
Golden, CO 80401

Claims-Made Coverage:

1. **First Party Protection:** For coverages 1.a – 1.d, the pollution incident must be first discovered by the responsible insured and reported to the insurer during the policy period.
   a. **Clean up**: Covers clean-up costs resulting from a pollution incident on, at, under, or migrating from or through an insured location.
   b. **Emergency Response**: Covers emergency response cost resulting from a
   c. **Pollution Incident**: (i) on, at, under or migrating from or through an insured location; (ii) caused by transportation; or (iii) caused by covered operations.
   d. **Environmental Crisis**: Covers crisis cost resulting from a crisis event.
   e. **Business Interruption**: Covers business interruption cost and extra expense incurred by the insured and solely and directly by a pollution incident on, at or under an insured location, provided the pollution incident results in clean-up cost covered by this policy.

2. **Legal Liability Protection:** For coverages 2.a – 2.d, the claim for damages because of such bodily injury or property damage, or a claim for such clean-up cost, is first made against an insured and reported to the insurer during the policy period.
   a. **Insured Location**: Covers sums the insured becomes legally obligated to pay: (1) as damages because of bodily injury or property damage; or (ii) for clean-up costs, resulting from a pollution incident on, at under, or migrating from or through an insured location.
   b. **Non-owned Site**: Covers sums the insured becomes legally obligated to pay (1) as damages because of bodily injury or property damage; or (ii) for clean- up costs, resulting from a pollution incident on, at under, or migrating from or through any non-owned site.
   c. **Transportation**: Covers sums the insured becomes legally obligated to pay (1) as damages because of bodily injury or property damage; or (ii) for clean- up costs, resulting from a pollution incident caused by transportation.
   d. **Covered Operations**: Covers sums the insured becomes legally obligated to pay (1) as damages because of bodily injury or property damage; or (ii) for clean-up costs, resulting from a pollution incident caused by covered operations or completed operations.

Limits of Liability: $1,000,000 Each Pollution Incident
$5,000,000 Total Policy and Program Aggregate – Shared All Members
Sublimits: $500,000 Environmental Crisis Aggregate
$250,000 Business Interruption Aggregate
$100,000 Perfluorinated Compounds Aggregate

Member Deductible: $1,000 Each Pollution Incident

Retroactive Date: January 1, 2009 (unless otherwise specified)

Defense Costs: Legal defense expenses and settlement shall erode the Limits of Liability

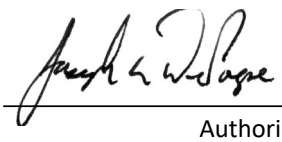
Partial List of Exclusions:
Asbestos, Contractual Liability, Criminal Fines and Criminal Penalties, Cross Liability (Insured vs. Insured), Damage to Insured's Product/Work, Divested Property, Employers Liability, Fraud or Misrepresentation, Intentional Non-Compliance, Internal Expenses, Known Conditions, Lead-Based Paint, Material Change in Risk, Non-Owned Disposal Sites, Underground Storage Tanks and Above Ground Storage Tanks excluded unless scheduled, Vehicle Damage, War or Terrorism, Workers Compensation, Lead at all gun or shooting ranges, Maintenance, Upgrades, Improvements or Installations where required by law, Microbial Matter with carveback for sudden and accidental water intrusion; 10-day discovery period/30 day reporting period, Prior Claims, Communicable Disease

Policy Forms:

ASPENV110 06 17	Environmental Legal Liability Policy
ASPENV098 11 17	Cap on Losses from Certified Acts of Terrorism
ASPENV340 05 17	Insured Location(s) Schedule Endorsement
ASPENV310 05 17	Known Conditions Exclusion Endorsement
ASPENV316 05 17	Legal Expense Aggregate Limit of Liability Endorsement
ASPENV117 11 17	Self-Insured Retention Aggregate (Erosion by Underlying Policies)
ASPENV117 11 17	Sewage Back-up Deductible Amendatory Endorsement
ASPENV117 11 17	Perfluorinated Compounds, Sublimit and Retroactive Date Amendatory Endorsement
ASPENV117 11 17	Cancellation Amendatory Endorsement
ASPENV117 11 17	Microbial Matter Exclusion Endorsement
ASPENV117 11 17	Maintenance, Upgrade, Improvements or Installations Exclusion Endorsement
ASPENV117 11 17	Retroactive Date All Coverage Endorsement
ASPENV117 11 17	Microbial Matter Sudden and Accidental Coverage Limitation Amendatory Endorsement
ASPENV117 11 17	Insured Location/Acquired Property Endorsement
ASPENV117 11 17	Public Entity Amendatory Endorsement
ASPENV322 05 17	Minimum Earned Premium Endorsement
ASPENV341 05 17	Named Insured Schedule Endorsement
ASPENV118 11 17	Nuclear, Biological, Chemical, or Radiological Terrorism Exclusion
ASPENV003 05 17	Other Insurance Condition Amendatory Endorsement
ASPER334 01 14	Prior Claim Exclusion Endorsement
ASPENV338 04 19	Schedule of Crisis Management Firms Endorsement
ASPENV431 11 17	Aspen Environmental Emergency Response Hotline
SNCO 0314	Colorado Surplus Lines Notice
ASPENV117 11 17	Communicable Disease Exclusion

Additional Endorsements Applicable to Named Member:

This Certificate Holder Declaration is made and is mutually accepted by the CSD Pool and the Named Member subject to all coverage terms under the Pollution Liability Policy #EV00A9V23 issued by Aspen Specialty Insurance Company. This Certificate represents a brief summary of coverages. Please refer to the Master Coverage Document for all coverage terms, conditions and exclusions.

Countersigned by: 

Authorized Representative

Colorado Special Districts
Property and Liability Pool

Terrorism, Sabotage and Malicious Attack Certificate Holder Declaration

Master Coverage Policy Number:
TER P 004 CW (06/11) physical loss or damage
33HIS00151 Terrorism Combined Liability
TER P0027CW (05/17) Malicious Attack
10/17 Malicious Attack combined liability

Insurer:
Lloyds, Hiscox Syndicate 33

Certificate Number: 23PL-54404-3299

Coverage Period: 1/1/2023 to EOD 12/31/2023

Named Member:
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

Broker of Record:
ISU Insurance Services of Colorado
350 Indiana St., Suite 750
Golden, CO 80401

Coverage for All CSD Pool Members combined	Per Occurrence Limit	Annual Aggregate Limit	Deductible
All Coverages Combined	n/a	**$105,000,000**	n/a
Terrorism and Sabotage – Physical Loss or Damage	$100,000,000	$100,000,000	$10,000
Terrorism – Combined Liability	$10,000,000	$10,000,000	$10,000
Malicious Attack – Physical Loss or Damage & Combined Liability	$5,000,000	$5,000,000	$5,000
Malicious Attack Sub-limits applicable:			
Prevention or Restriction of Access	$2,500,000	$2,500,000	$5,000
Utilities	$2,500,000	$2,500,000	$5,000
Personal Accident Costs	$250,000	$250,000	$5,000
Crisis Management Costs	$250,000	$250,000	$5,000

Report all Claims to: Phone: (800) 318-8870, ext. 1
Email: claims@csdpool.org

This Certificate Holder Declaration is made and is mutually accepted by the CSD Pool and the Named Member subject to all terms which are made a part of the Terrorism, Sabotage and Malicious Attack Coverage Policy. This Certificate represents only a brief summary of coverages. Please refer to the Master Coverage document for actual coverage, terms, conditions, and exclusions.

Countersigned by: _____

Authorized Representative

Colorado Special Districts
Property and Liability Pool

General Liability Schedule
Water District

Policy Number: 23PL-54404-3299
Named Member: Pinewood Springs Water District
Coverage Period: 1/1/2023 – EOD 12/31/2023
Broker: ISU Insurance Services of Colorado

Code	Description	Unit	Amount	Effective Date	Expiration Date
4	4-Maximum Bond Issued	Dollars	0.00	1/1/2023	12/31/2023
5	5-Number of Bonds Issued	Total	0.00	1/1/2023	12/31/2023
36	36-Pipe Line - Water	Miles	7.00	1/1/2023	12/31/2023
98	98-Additional First Named Members	Total	0.00	1/1/2023	12/31/2023
105	105-Total Operating Expenses - Any other	Dollars	373,107.00	1/1/2023	12/31/2023
139	139-Total Operating Expenses - Water	Dollars	281,401.00	1/1/2023	12/31/2023
215	215-Buildings & Premises Occupied by District	Sq. Ft.	1,200.00	1/1/2023	12/31/2023
270	270-Number of Aboveground Storage Tanks (excluding water tanks)	Total	1.00	1/1/2023	12/31/2023
341	341-Time Spent by Club/Recreation/Camp Volunteers	Hours	0.00	1/1/2023	12/31/2023
342	342-Time Spent by Day Care Volunteers	Hours	0.00	1/1/2023	12/31/2023
344	344-Time Spent by Event Organizer Volunteers	Hours	0.00	1/1/2023	12/31/2023
345	345-Time Spent by General Volunteers	Hours	0.00	1/1/2023	12/31/2023
348	348-Number of Board Members	Total	5.00	1/1/2023	12/31/2023
350	350-Number of Permanent Employees - Full-Time	Total	3.00	1/1/2023	12/31/2023
351	351-Number of Permanent Employees - Part-Time	Total	1.00	1/1/2023	12/31/2023
366	366-Total Payroll	Dollars	165,000.00	1/1/2023	12/31/2023
400	400-Number of Boats - Under 26'	Total	0.00	1/1/2023	12/31/2023
411	411-Total Water Delivered Annually - Millions of Gallons (MGAL)	MGAL	6,600,000.00	1/1/2023	12/31/2023
420	420-Vacant Land	Acres	2.00	1/1/2023	12/31/2023

522	522-Number of Ponds, Lakes & Reservoirs	Total	1.00	1/1/2023	12/31/2023
523	523-Number of Pond, Lake &/or Reservoir Recreational Activities	-	0.00	1/1/2023	12/31/2023
710	710-Dams - Class 1 - Low Hazard - Total Acre-Feet	Acre Ft.	38.00	1/1/2023	12/31/2023
712	712-Dams - Class 1 - Low Hazard - Number of Dams	Count	1.00	1/1/2023	12/31/2023
720	720-Dams - Class 2 - Med Hazard - Total Acre-Feet	Acre Ft.	0.00	1/1/2023	12/31/2023
722	722-Dams - Class 2 - Med Hazard - Number of Dams	Count	0.00	1/1/2023	12/31/2023
730	730-Dams - Class 3 - High Hazard - Total Acre-Feet	Acre Ft.	0.00	1/1/2023	12/31/2023
732	732-Dams - Class 3 - High Hazard - Number of Dams	Count	0.00	1/1/2023	12/31/2023
811	811-Number of Spillways	Total	1.00	1/1/2023	12/31/2023
900	900-Services Contracted out to Others	Dollars	7,000.00	1/1/2023	12/31/2023
946	946-Number of Water Mains or Connections	Total	302.00	1/1/2023	12/31/2023
948	948-Water Line Maintenance (budget)	Dollars	108,000.00	1/1/2023	12/31/2023
997	997-Number of district sponsored Events/Fundraisers - No Alcohol Served	Total	0.00	1/1/2023	12/31/2023
998	998-Number of District sponsored Events/Fundraisers – With Alcohol Served	Total	0.00	1/1/2023	12/31/2023
999	999-Prior Acts Coverage Under a Previous “Claims Made” Policy	Premium	0.00	1/1/2023	12/31/2023

If your district has exposures not listed on the General Liability schedule above, such as airplanes, security staff, bridges, drones, etc., please furnish details. Certain activities may be excluded or restricted.

Colorado Special Districts Property and Liability Pool

Property Schedule

Coverage Period: 1/1/2023-EOD 12/31/2023

Named Member:
Pinewood Springs Water District

Broker:
ISU Insurance Services of Colorado

Per Occurrence Deductible: $1,000.00

Location/Premise Address / Description	Construction Class	Prot. Class	Valuation	Values	Property Contrib.	Quake Contrib.	Flood Contrib.

Location / Premise#	002-001	**Unique#**	PROP-00106616	Frame	3	Replacement		**Buildings:**	$48,914.00	$138	$	$
Pump Station		**Year Built:**	2007	**Term:**	1/1/2023 to 12/31/2023			**Contents:**	$15,714.00			
East prop boundary of 12313 US Hwy 36		**Sq. Feet:**	100	**County:**	Larimer	Ded:	$1,000.00	**EDP:**	$ 0.00			
								Business Inc:	$ 0.00			
Lyons, CO 80540		**# Stories**	1.00	**Flood Zone:**	Zone X			**UG Pipes:**	$ 0.00			
NOC Equipment Breakdown Applies: No		**Excess Quake Applies:** No		**Excess Flood Applies:** No				**Otherwise Classified:**	$ 0.00			

Location / Premise#	005-002	**Unique#**	PROP-00106621	Frame	3	Replacement		**Buildings:**	$4,946.00	$ 16	$	$
Low Zone Pump House		**Year Built:**	1994	**Term:**	1/1/2023 to 12/31/2023			**Contents:**	$2,620.00			
89 Navajo Street		**Sq. Feet:**	100	**County:**	Larimer	Ded:	$1,000.00	**EDP:**	$ 0.00			
								Business Inc:	$ 0.00			
Lyons, CO 80540		**# Stories**	1.00	**Flood Zone:**	Zone X			**UG Pipes:**	$ 0.00			
NOC Equipment Breakdown Applies: No		**Excess Quake Applies:** No		**Excess Flood Applies:** No				**Otherwise Classified:**	$ 0.00			

Location / Premise#	005-003	**Unique#**	PROP-00106622	Frame	3	Replacement		**Buildings:**	$4,946.00	$ 16	$	$
Chemical Building		**Year Built:**	1994	**Term:**	1/1/2023 to 12/31/2023			**Contents:**	$2,620.00			
99 Navajo Street		**Sq. Feet:**	100	**County:**	Larimer	Ded:	$1,000.00	**EDP:**	$ 0.00			
								Business Inc:	$ 0.00			
Lyons, CO 80540		**# Stories**	1.00	**Flood Zone:**	Zone X			**UG Pipes:**	$ 0.00			
NOC Equipment Breakdown Applies: No		**Excess Quake Applies:** No		**Excess Flood Applies:** No				**Otherwise Classified:**	$ 0.00			

Colorado Special Districts Property and Liability Pool

Property Schedule

Coverage Period: 1/1/2023-EOD 12/31/2023

Named Member:
Pinewood Springs Water District

Broker:
ISU Insurance Services of Colorado

Per Occurrence Deductible: $1,000.00

Location/Premise Address / Description	Construction Class	Prot. Class	Valuation	Values	Property Contrib.	Quake Contrib.	Flood Contrib.

Location / Premise#	001-001	**Unique#**	PROP-00106614	Frame	3	Replacement		**Buildings:**	$585,000.00	$1,411	$	$
Filtration Plant Office Lab		**Year Built:**	1990	**Term:**	1/1/2023 to 12/31/2023			**Contents:**	$52,911.00			
183 Cree Court		**Sq. Feet:**	968	**County:**	Boulder	Ded:	$1,000.00	**EDP:**	$ 0.00			
								Business Inc:	$ 0.00			
Lyons, CO 80540		**# Stories**	1.00	**Flood Zone:**	Zone X			**UG Pipes:**	$ 0.00			
NOC Equipment Breakdown Applies: No		**Excess Quake Applies:** No		**Excess Flood Applies:** No				**Otherwise Classified:**	$ 0.00			

Location / Premise#	001-002	**Unique#**	PROP-00106615	Joisted Masonry	3	Replacement		**Buildings:**	$586,098.00	$1,600	$	$
Raw Water Pump Station		**Year Built:**	1980	**Term:**	1/1/2023 to 12/31/2023			**Contents:**	$78,571.00			
183 Cree Court		**Sq. Feet:**	221	**County:**	Boulder	Ded:	$1,000.00	**EDP:**	$ 0.00			
								Business Inc:	$ 0.00			
Lyons, CO 80540		**# Stories**	1.00	**Flood Zone:**	Zone AE			**UG Pipes:**	$ 0.00			
NOC Equipment Breakdown Applies: No		**Excess Quake Applies:** No		**Excess Flood Applies:** No				**Otherwise Classified:**	$ 0.00			

Location / Premise#	007-001	**Unique#**	PROP-00106624	Noncombustible	3	Replacement		**Buildings:**	$44,014.00	$ 65	$	$
Pump Station and Vault		**Year Built:**		**Term:**	1/1/2023 to 12/31/2023			**Contents:**	$ 0.00			
Corner of Kiowa Road and May Avenue		**Sq. Feet:**		**County:**	Boulder	Ded:	$1,000.00	**EDP:**	$ 0.00			
								Business Inc:	$ 0.00			
Lyons, CO 80540		**# Stories**		**Flood Zone:**	Zone X			**UG Pipes:**	$ 0.00			
NOC Equipment Breakdown Applies: No		**Excess Quake Applies:** No		**Excess Flood Applies:** No				**Otherwise Classified:**	$ 0.00			

Colorado Special Districts Property and Liability Pool

Property Schedule

Coverage Period: 1/1/2023-EOD 12/31/2023

Named Member:
Pinewood Springs Water District

Broker:
ISU Insurance Services of Colorado

Per Occurrence Deductible: $1,000.00

Location/Premise Address / Description	Construction Class	Prot. Class	Valuation	Values	Property Contrib.	Quake Contrib.	Flood Contrib.

Location / Premise#	004-003	**Unique#**	PROP-00106619	Noncombustible	3	Replacement		**Buildings:**	$14,281.00	$ 21	$	$
Chemical Building		**Year Built:**	1994	**Term:**	1/1/2023 to 12/31/2023			**Contents:**	$ 0.00			
70 Elk Road		**Sq. Feet:**	200	**County:**	Larimer	Ded:	$1,000.00	**EDP:**	$ 0.00			
								Business Inc:	$ 0.00			
Lyons, CO 80540		**# Stories**	1.00	**Flood Zone:**	Zone X			**UG Pipes:**	$ 0.00			
NOC Equipment Breakdown Applies: No		**Excess Quake Applies:** No		**Excess Flood Applies:** No				**Otherwise Classified:**	$ 0.00			

Location / Premise#	005-001	**Unique#**	PROP-00106620	Not Assigned	3	Replacement		**Buildings:**	$ 0.00	$1,585	$	$
1 500K Gallon Tanks #4 and 1 100K Gallon Tank		**Year Built:**	1979	**Term:**	1/1/2023 to 12/31/2023			**Contents:**	$ 0.00			
89 Navajo Street		**Sq. Feet:**		**County:**	Larimer	Ded:	$1,000.00	**EDP:**	$ 0.00			
								Business Inc:	$ 0.00			
Lyons, CO 80540		**# Stories**		**Flood Zone:**	Zone X			**UG Pipes:**	$ 0.00			
NOC Equipment Breakdown Applies: No		**Excess Quake Applies:** No		**Excess Flood Applies:** No				**Otherwise Classified:**	$595,000.00			

Location / Premise#	004-001	**Unique#**	PROP-00106617	Not Assigned	3	Replacement		**Buildings:**	$ 0.00	$842	$	$
100K Gallon Water Tank		**Year Built:**	1980	**Term:**	1/1/2023 to 12/31/2023			**Contents:**	$ 0.00			
70 Elk Road		**Sq. Feet:**		**County:**	Larimer	Ded:	$1,000.00	**EDP:**	$ 0.00			
								Business Inc:	$ 0.00			
Lyons, CO 80540		**# Stories**		**Flood Zone:**	Zone X			**UG Pipes:**	$ 0.00			
NOC Equipment Breakdown Applies: No		**Excess Quake Applies:** No		**Excess Flood Applies:** No				**Otherwise Classified:**	$316,000.00			

Colorado Special Districts Property and Liability Pool

Property Schedule

Coverage Period: 1/1/2023-EOD 12/31/2023

Named Member:
Pinewood Springs Water District

Broker:
ISU Insurance Services of Colorado

Per Occurrence Deductible: $1,000.00

Location/Premise Address / Description	Construction Class	Prot. Class	Valuation	Values	Property Contrib.	Quake Contrib.	Flood Contrib.

Location / Premise#	004-002	**Unique#**	PROP-00106618	Not Assigned	3	Replacement		**Buildings:**	$ 0.00	$1,662	$	$
500K Gallon Water Tank		**Year Built:**	1980	**Term:**	1/1/2023 to 12/31/2023			**Contents:**	$ 0.00			
70 Elk Road		**Sq. Feet:**		**County:**	Larimer	Ded:	$1,000.00	**EDP:**	$ 0.00			
								Business Inc:	$ 0.00			
Lyons, CO 80540		**# Stories**		**Flood Zone:**	Zone X			**UG Pipes:**	$ 0.00			
NOC Equipment Breakdown Applies: No		**Excess Quake Applies:** No		**Excess Flood Applies:** No				**Otherwise Classified:**	$624,000.00			

Location / Premise#	006-001	**Unique#**	PROP-00106623	Not Assigned	3	Replacement		**Buildings:**	$ 0.00	$741	$	$
20K Gallon Underground Tank		**Year Built:**	1974	**Term:**	1/1/2023 to 12/31/2023			**Contents:**	$ 0.00			
West prop boundary 475 Pinewood Drive		**Sq. Feet:**		**County:**	Boulder	Ded:	$1,000.00	**EDP:**	$ 0.00			
								Business Inc:	$ 0.00			
Lyons, CO 80540		**# Stories**		**Flood Zone:**	Zone X			**UG Pipes:**	$ 0.00			
NOC Equipment Breakdown Applies: No		**Excess Quake Applies:** No		**Excess Flood Applies:** No				**Otherwise Classified:**	$278,390.00			

Totals:	**Buildings:**	$1,288,199.00	$8,097.00	$0.00	$0.00
	Contents:	$152,436.00			
	EDP:	$0.00			
	Business Inc:	$0.00			
	UG Pipes:	$0.00			
	Otherwise Classified:	$1,813,390.00			

Colorado Special Districts Property and Liability Pool

Property Schedule

Coverage Period: 1/1/2023-EOD 12/31/2023

Named Member:
Pinewood Springs Water District

Broker:
ISU Insurance Services of Colorado

Per Occurrence Deductible: $1,000.00

Location/Premise Address / Description	Construction Class	Prot. Class	Valuation	Values	Property Contrib.	Quake Contrib.	Flood Contrib.

Minimum Property Contribution: $425

Colorado Special Districts Property and Liability Pool

Inland Marine Schedule

Coverage Period: 1/1/2023-EOD 12/31/2023

Named Member:
Pinewood Springs Water District

Broker:
ISU Insurance Services of Colorado

Per Occurrence Deductible: $1,000.00

IM Code	Description	Serial Number	Model Number	Ded:	Effective	Expiration	Value	Inland Mar. Contribution
Mobile Equipment	1999 Case Backhoe 560 Super			$1,000.00	1/1/2023	12/31/2023	$23,000.00	$56
Mobile Equipment	2021 John Deere Mini Excavator		26G	$1,000.00	1/1/2023	12/31/2023	$52,900.00	$128

Minimum Combined Property and Inland Marine Contribution:	$425	**Totals:**	$75,900.00	$184.00	

Colorado Special Districts Property and Liability Pool

Auto Schedule

Coverage Period: 1/1/2023 to EOD 12/31/2023

Named Member:
Pinewood Springs Water District

Broker:
ISU Insurance Services of Colorado

Auto Liability Per Occurrence Deductible: $1,000

Year	Make	Description	Complete Vehicle Identification #	Collision	Comp	Deductible		Value	AL Contribution	APD Contribution
				Y/N	Y/N	Collision	Comp.			
Auto #:		**Unique #:**	VEH-00090574							
1992	Chevrolet	GMT-400	1GBJC34N8NE204322	Yes	Yes	$500	$500	$6,431	$413	$91
Weight Class:	Med Truck (10k-20k)	**Valuation:**	ACV	**Term:**	1/1/2023-12/31/2023	**Model:**	Pickup			
Auto #:	001	**Unique #:**	54404A8575							
2011	Ford	F150 Pickup	1FTMF1EM5BKD11464	Yes	Yes	$500	$500	$21,134	$352	$298
Weight Class:	Lgt Truck (0-10k)	**Valuation:**	ACV	**Term:**	1/1/2023-12/31/2023	**Model:**	Pickup			
Auto #:	2	**Unique #:**	54404A9358							
2014	Ford	F150	1FTEX1EMXEKG35838	Yes	Yes	$500	$500	$28,179	$352	$397
Weight Class:	Lgt Truck (0-10k)	**Valuation:**	ACV	**Term:**	1/1/2023-12/31/2023	**Model:**	Pickup			
							Total:	$55,744.00	$1,118	$786

Weight Class
Pri Pass - (0 - 10,000 LBS)
Lgt Truck - (0 - 10,000 LBS)
Med Truck - (10,001 - 20,000 LBS)
Hvy Truck - (20,001 - 45,000 LBS)
XHvy Truck - (OVER 45,000 LBS)

Model
AO = All Others
AMBU = Ambulance
DUMP = Dump Truck
EXCA = Excavating
FIRE = Fire Truck
SEDA = Sedan
SUV = SUV
TANK = Tanker
TRAI = Trailer
TRAC = Tractor

Colorado Special Districts Property and Liability Pool

Auto Schedule

Coverage Period: 1/1/2023 to EOD 12/31/2023

Named Member:
Pinewood Springs Water District

Broker:
ISU Insurance Services of Colorado

Auto Liability Per Occurrence Deductible: $1,000

Year	Make	Description	Complete Vehicle Identification #	Collision	Comp	Deductible		Value	AL Contribution	APD Contribution
				Y/N	Y/N	Collision	Comp.			

Valuation
No APD = Liability Only
ACV= Actual Cash Value
RCV = Replacement Cost Valuation
AV = Agreed Value

LADD = Ladder Truck
LIV = Livery
MAIN = Maintenance
PU = Pickup
PUMP = Pumper
RESC = Rescue

TRAN = Transit
TRUC = Truck
UTIL = Utility
VAN = 1-13 Passenger
VANX = 15 Passenger

Colorado Special Districts Property and Liability Pool

CERTIFICATE OF COVERAGE

Certificate Number
CERT-004095

ADMINISTRATOR
Colorado Special Districts Property and Liability Pool
c/o McGriff Insurance Services, Inc.
PO Box 1539
Portland, OR 97207-1539

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

NAMED MEMBER
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

COMPANIES AFFORDING COVERAGE

COMPANY A:	Colorado Special Districts Property and Liability Pool
COMPANY B:	
COMPANY C:	
COMPANY D:	
COMPANY E:	

COVERAGES

THIS IS TO CERTIFY THAT COVERAGE DOCUMENTS LISTED HEREIN HAVE BEEN ISSUED TO THE NAMED MEMBER HEREIN FOR THE COVERAGE PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE COVERAGE AFFORDED BY THE COVERAGE DOCUMENTS LISTED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH COVERAGE DOCUMENTS.

CO LTR	Type of Coverage	Coverage #	Effective Date	Expiration Date	LIMITS	
A	General Liability ☒Commercial General Liability ☒Public Officials Liability ☒Employment Practices ☒Occurrence	23PL-54404-3299	01/01/23	12/31/23	General Aggregate	Unlimited
		*Except that for claims, occurrences or suits to which the monetary limits of the Colorado Immunity Act, C.R.S. & 24-10-101, et.seq., as amended, apply, there shall be a further sublimit of (a) $387,000 for an injury to any one person in any single occurrence; and (b) $1,093,000 for an injury to two or more persons in any single occurrence; but in the event of an injury to two or more persons in any single occurrence, the sublimit shall not exceed $387,000 for each injured person.			Each Occurrence*	$2,000,000
	Automobile Liability ☐Scheduled Autos ☐Hired Autos ☐Non-Owned Autos				Each Occurrence*	
	Auto Physical Damage ☐Scheduled Autos ☐ Hired Autos					
	Excess Liability ☐Other Than Umbrella Form				General Aggregate Each Occurrence*	
	Property ☐					

Description:
Evidence of Coverage

CERTIFICATE HOLDER

Colorado Water Conservation Board

1313 Sherman St.
Denver, CO 80203

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED COVERAGES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE COVERAGE FORM PROVISIONS.

AUTHORIZED REPRESENTATIVE:
By: Joseph E. DePaepe

Date: December 22, 2022

Colorado Special Districts Property and Liability Pool

CERTIFICATE OF COVERAGE

Certificate Number
CERT-008209

ADMINISTRATOR
Colorado Special Districts Property and Liability Pool
c/o McGriff Insurance Services, Inc.
PO Box 1539
Portland, OR 97207-1539

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

NAMED MEMBER
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

COMPANIES AFFORDING COVERAGE

COMPANY A:	Colorado Special Districts Property and Liability Pool
COMPANY B:	
COMPANY C:	
COMPANY D:	
COMPANY E:	

COVERAGES

THIS IS TO CERTIFY THAT COVERAGE DOCUMENTS LISTED HEREIN HAVE BEEN ISSUED TO THE NAMED MEMBER HEREIN FOR THE COVERAGE PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE COVERAGE AFFORDED BY THE COVERAGE DOCUMENTS LISTED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH COVERAGE DOCUMENTS.

CO LTR	Type of Coverage	Coverage #	Effective Date	Expiration Date	LIMITS	
A	General Liability ☒Commercial General Liability ☒Public Officials Liability ☒Employment Practices ☒Occurrence	23PL-54404-3299	01/01/23	12/31/23	General Aggregate	Unlimited
		*Except that for claims, occurrences or suits to which the monetary limits of the Colorado Immunity Act, C.R.S. & 24-10-101, et.seq., as amended, apply, there shall be a further sublimit of (a) $387,000 for an injury to any one person in any single occurrence; and (b) $1,093,000 for an injury to two or more persons in any single occurrence; but in the event of an injury to two or more persons in any single occurrence, the sublimit shall not exceed $387,000 for each injured person.			Each Occurrence*	$2,000,000
	Automobile Liability ☐Scheduled Autos ☐Hired Autos ☐Non-Owned Autos				Each Occurrence*	
	Auto Physical Damage ☐Scheduled Autos ☐ Hired Autos					
	Excess Liability ☐Other Than Umbrella Form				General Aggregate	
					Each Occurrence*	
A	Property ☒	23PL-54404-3299	01/01/23	12/31/23	See below if applicable.	

Description:
4Rivers Equipment, LLC is listed as a Loss Payee under Property coverage with respects to their interest in the mini excavator rented by Pinewood Springs Water District. Property Coverage includes a $100,000 limit for Contractor's Equipment – Rented, Leased, or Hired subject to the $1,000 Property deductible.

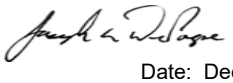
CERTIFICATE HOLDER

4Rivers Equipment, LLC
3763 Monarch Street
Frederick, CO 80516

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED COVERAGES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE COVERAGE FORM PROVISIONS.

AUTHORIZED REPRESENTATIVE:
By: Joseph E. DePaepe



Date: December 22, 2022

Colorado Auto Liability
Coverage Identification Card

Colorado Special Districts Property and Liability Pool
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

Policy: 23PL-54404-3299 **VIN:** 1GBJC34N8NE204322
Effective Date: 1/1/2023 **Expiration Date:** 12/31/2023
Year/Make/Model: 1992/Chevrolet/Pickup

This card must be carried in the vehicle at all times as evidence of coverage.

Colorado Auto Liability **001**
Coverage Identification Card

Colorado Special Districts Property and Liability Pool
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

Policy: 23PL-54404-3299 **VIN:** 1FTMF1EM5BKD11464
Effective Date: 1/1/2023 **Expiration Date:** 12/31/2023
Year/Make/Model: 2011/Ford/Pickup

This card must be carried in the vehicle at all times as evidence of coverage.

Colorado Auto Liability **2**
Coverage Identification Card

Colorado Special Districts Property and Liability Pool
Pinewood Springs Water District
183 Cree Ct.
Lyons, CO 80540

Policy: 23PL-54404-3299 **VIN:** 1FTEX1EMXEKG35838
Effective Date: 1/1/2023 **Expiration Date:** 12/31/2023
Year/Make/Model: 2014/Ford/Pickup

This card must be carried in the vehicle at all times as evidence of coverage.

DISTRICT COURT, WATER DIVISION NO. 1, COLORADO 901 9th Avenue Greeley, Colorado 80631 (970)351-7300	
CONCERNING THE APPLICATION FOR WATER RIGHTS OF PINEWOOD SPRINGS WATER DISTRICT IN LARIMER COUNTY	• COURT USE ONLY • Case Number: 2002CW347

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

This application was filed with the Water Clerk, Water Division No. 1, on December 30, 2002, and the Court, having considered the pleadings, the stipulations of the parties, and the evidence presented, does hereby find and conclude as follows:

FINDINGS OF FACT

1. The name and address of the applicant are: Pinewood Springs Water District, 183 Cree Court, Lyons, Colorado 80540-8118.

2. Timely and adequate notice of the application was given as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over all parties affected hereby, whether they have appeared or not. None of the lands or water involved in this application are within the boundaries of a designated groundwater basin.

3. Timely statements of opposition were filed by Jon and Sharon Jacksi, Big Elk Meadows Association, The Boulder and Larimer County Irrigating and Manufacturing Ditch Company, and Thompson Water Users Association. No person or entity has sought to intervene. The time for filing statements of opposition and motions to intervene has expired.

4. Applicant has entered into stipulations with
The Court has reviewed the stipulations and has entered orders approving them. The Court finds that this decree is consistent with the provisions of the stipulations.

5. Applicant seeks a decree confirming and approving the following described water storage rights:

A. Names of water storage rights: Maure Hollow Reservoir, Crescent Lake/Powelson Reservoir, Crow Lane Reservoir No. 1, Crow Lane Reservoir No. 2 and Pinewood Springs Reservoir.

B. Legal descriptions of locations of dams:

(1) Maure Hollow Reservoir: Maure Hollow Reservoir will be located on Maure Hollow, a tributary of the Little Thompson River, in the NW1/4 of the NW1/4 of Section 28, Township 4 North, Range 71 West of the 6th P.M., Larimer County, Colorado. The center of the dam will be located approximately 1200 feet East of the West line and 1100 feet South of the North line of said Section 28.

(2) Crescent Lake/Powelson Reservoir: Crescent Lake/Powelson Reservoir will be located on an unnamed tributary of the Little Thompson River, in the SW1/4 of the NE1/4 of Section 28, Township 4 North, Range 71 West of the 6th P.M., Larimer County, Colorado. The center of the dam will be located approximately 350 feet East of the West line of the SW1/4 of the NE1/4 and 450 feet South of the North line of the SW1/4 of the NE1/4 of said Section 28.

(3) Crow Lane Reservoir No. 1: Crow Lane Reservoir No. 1 will be located on an unnamed tributary of the Little Thompson River, in the SE1/4 of the SE1/4 of Section 29, Township 4 North, Range 71 West of the 6th P.M., Larimer County, Colorado. The center of the dam will be located approximately 250 feet West of the East line and 50 feet North of the South line of said Section 29.

(4) Crow Lane Reservoir No. 2: Crow Lane Reservoir No. 2 will be located on an unnamed tributary of the Little Thompson River, in the NE1/4 of the NE1/4 of Section 32, Township 4 North, Range 71 West of the 6th P.M., Larimer County, Colorado. The center of the dam will be located

approximately 250 feet West of the East line and 750 feet South of the North line of said Section 32.

(5) Pinewood Springs Reservoir: Pinewood Springs Reservoir will be located on an unnamed tributary of the Little Thompson River, in the NW1/4 of the SW1/4 of Section 28, Township 4 North, Range 76 West of the 6th P.M., Larimer County, Colorado. The northwest abutment of the dam will be located at or near a point which bears North 33°40' East a distance of 575 feet from the southwest corner of the Nl/2 of the SW1/4 of said Section 28.

C. Names and capacities of ditch or ditches used to fill reservoirs and legal description of each point of diversion:

(1) Maure Hollow Reservoir, Crow Lane Reservoir No. 1. Crow Lane Reservoir No. 2, and Pinewood Springs Reservoir: Maure Hollow Reservoir, Crow Lane Reservoir No. 1, Crow Lane Reservoir No. 2 and Pinewood Springs Reservoir will be on-channel reservoirs and will store water from their respective drainage basins. In addition, water will be diverted from the Little Thompson River at a point located in the SE1/4 of the NW1/4 of Section 28, Township 4 North, Range 71 West, 6th P.M., Larimer County, whence the north quarter corner, Section 28 bears North 42°46'43" East, 1,943.68 feet, and will be conveyed through pipelines to the reservoirs. The maximum rate of diversion to storage from the Little Thompson River will be 1 cfs for each reservoir. This point of diversion is the same as the point of diversion for the Pinewood Springs Collection Gallery, decreed in Case No. 88CW236, District Court, Water Division No. 1, on February 23, 1990.

(2) Crescent Lake/Powelson Reservoir: Crescent Lake/Powelson Reservoir will be an on-channel reservoir and will store water from its drainage basin. In addition, water will be diverted from the Little Thompson River at a point located in the NW1/4 of the NE1/4 of Section 28, Township 4 North, Range 71 West, 6th P.M., Larimer County, approximately 700 feet East of the West line of the NW1/4 of the NE1/4 and 200 feet North of the South line of the NW1/4 of the NE1/4 of said Section 28, and will be conveyed through a pipeline to the reservoir. The maximum rate of diversion to storage will be 1 cfs.

D. Sources:

(1) Maure Hollow Reservoir: Little Thompson River and Maure Hollow, a tributary to the Little Thompson River.

(2) Crescent Lake/Powelson Reservoir: Little Thompson River and an unnamed tributary to the Little Thompson River.

(3) Crow Lane Reservoir No. 1: Little Thompson River and an unnamed tributary to the Little Thompson River.

(4) Crow Lane Reservoir No. 2: Little Thompson River and an unnamed tributary to the Little Thompson River.

(5) Pinewood Springs Reservoir: Little Thompson River and an unnamed tributary to the Little Thompson River.

E. Dates of Appropriation: September 27,2000 for Crescent Lake/Powelson Reservoir; July 30,2002 for Maure Hollow Reservoir, Crow Lane Reservoir No. 1, Crow Lane Reservoir No. 2 and Pinewood Springs Reservoir.

F. Amounts:

(1) Maure Hollow Reservoir: 45 acre-feet, CONDITIONAL, with the right to fill and refill continuously.

(2) Crescent Lake/Powelson Reservoir: 18 acre-feet, CONDITIONAL, with the right to fill and refill continuously.

(3) Crow Lane Reservoir No. 1: 51 acre-feet, CONDITIONAL, with the right to fill and refill continuously.

(4) Crow Lane Reservoir No. 2: 39 acre-feet, CONDITIONAL, with the right to fill and refill continuously.

(5) Pinewood Springs Reservoir: 20 acre-feet, CONDITIONAL, with the right to fill and refill continuously.

G. Rates of diversion in cfs for filling the reservoirs from the Little Thompson River points of diversion:

(1) Maure Hollow Reservoir: 1 cfs for diversion to storage from the Little Thompson River.

(2) Crescent Lake/Powelson Reservoir: 1 cfs for diversion to storage from the Little Thompson River.

(3) Crow Lane Reservoir No. 1: 1 cfs for diversion to storage from the Little Thompson River.

(4) Crow Lane Reservoir No. 2: 1 cfs for diversion to storage from the Little Thompson River.

(5) Pinewood Springs Reservoir: 1 cfs for diversion to storage from the Little Thompson River.

H. Use: Municipal use within the Pinewood Springs Subdivision including, but not limited to, domestic, recreational, fish and wildlife preservation and propagation, augmentation, replacement and exchange, with the right to use and reuse to extinction for the uses described herein.

6. Applicant has demonstrated that the water will be used by it or by persons or entities with which it has either agency relationships or firm contractual commitments.

7. Applicant has a specific plan and intent to divert, store, or otherwise capture, possess, and control a specific quantity of water for specific beneficial uses.

8. Applicant has demonstrated that unappropriated water is available in the amounts claimed from the sources claimed.

9. Applicant has demonstrated that the water can and will be diverted and beneficially used, and that the project can and will be completed with diligence and within a reasonable time.

10. Applicant has proceeded with reasonable diligence to develop the subject appropriations.

11. The subject water storage rights, if exercised and administered in accordance with the provisions of this decree, will not cause injury to any owner of or person entitled to use water under any vested water right or decreed conditional water right.

CONCLUSIONS OF LAW

12. This application was filed with the Water Court pursuant to § 37-92-302(l)(a), C.R.S. The Court has jurisdiction over the subject matter of this application and over all persons and water rights affected hereby, whether they have appeared or not.

13. Timely and adequate notice of this proceeding was given in the manner required by law.

14. Applicant has complied with all requirements and met all standards and burdens of proof and is therefore entitled to a decree confirming and approving the subject water storage rights as described herein.

15. The subject water storage rights, if exercised and administered in accordance with the provisions of this decree, will not cause injury to any owner of or person entitled to use water under any vested water right or decreed conditional water right.

JUDGMENT AND DECREE

16. The foregoing Findings of Fact and Conclusions of Law are incorporated herein by this reference as if set forth fully herein.

17. The water storage rights described in paragraph 5 above are hereby confirmed and approved.

18. Applicant shall install and maintain such measuring devices or other structures, and shall maintain such records of diversions hereunder, as may be required by State water administration officials for administration of the subject water storage rights. The reservoirs shall be equipped with staff gauges. Applicant shall develop elevation-area-capacity tables for the reservoirs and provide them to the Division Engineer. Applicant shall submit the required accounting information to State water administration officials on a weekly basis during the irrigation season and on a monthly basis during the non-irrigation season, or as otherwise required by State water administration officials. Applicant shall make such information available to the other parties hereto upon request and upon payment of reasonably copying charges. Applicant shall promptly release without use any water stored out-of-priority in the subject reservoirs; provided, however, that out-of-priority storage of

water in the reservoirs shall be allowed if in accordance with § 37-80-120(1), C.R.S. (2003) or successor statutes.

19. Applicant shall not construct any reservoir described herein on land owned by another person or entity unless the right to construct the reservoir on such land is obtained by consent of the landowner, the exercise of the power of eminent domain, or other lawful means.

20. The application herein was filed in the Water Court in the year of 2002 and the water rights herein confirmed and awarded shall be administered as having been filed in that year and shall be junior to all water rights for which applications were filed in previous years. As between all water rights, the applications for which were filed in the same calendar year, priorities shall be determined by historical dates of appropriation and shall not be affected by the date of entry of this decree.

21. The conditional water storage rights decreed herein are continued in full force and effect through_____, 200_. If applicant desires to maintain such conditional water rights, an application for finding of reasonable diligence shall be filed on or before the last day of_____, 200_, or a showing made on or before such date that the conditional water rights have become absolute by reason of the completion of the appropriations.

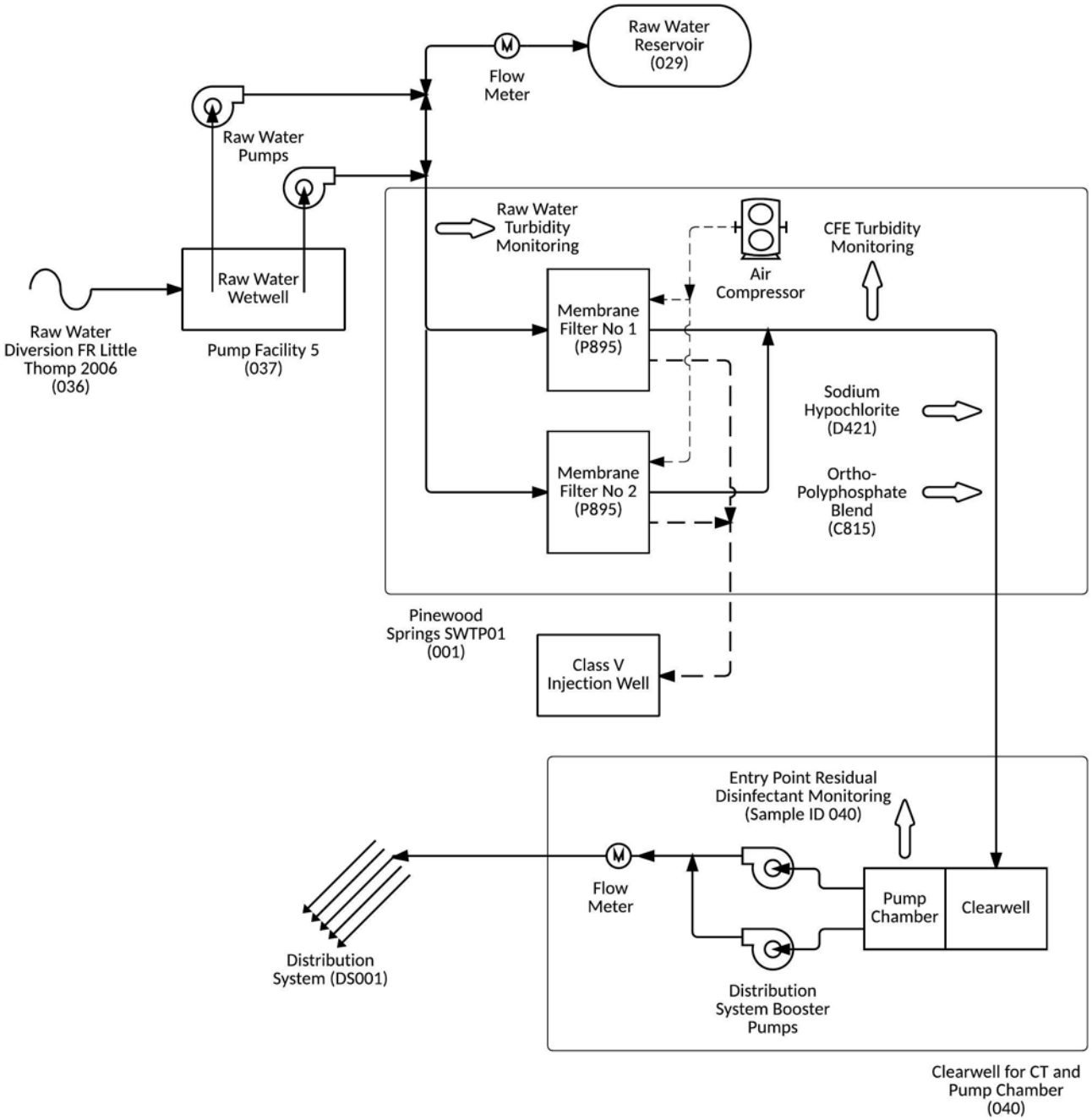
DATED:_____

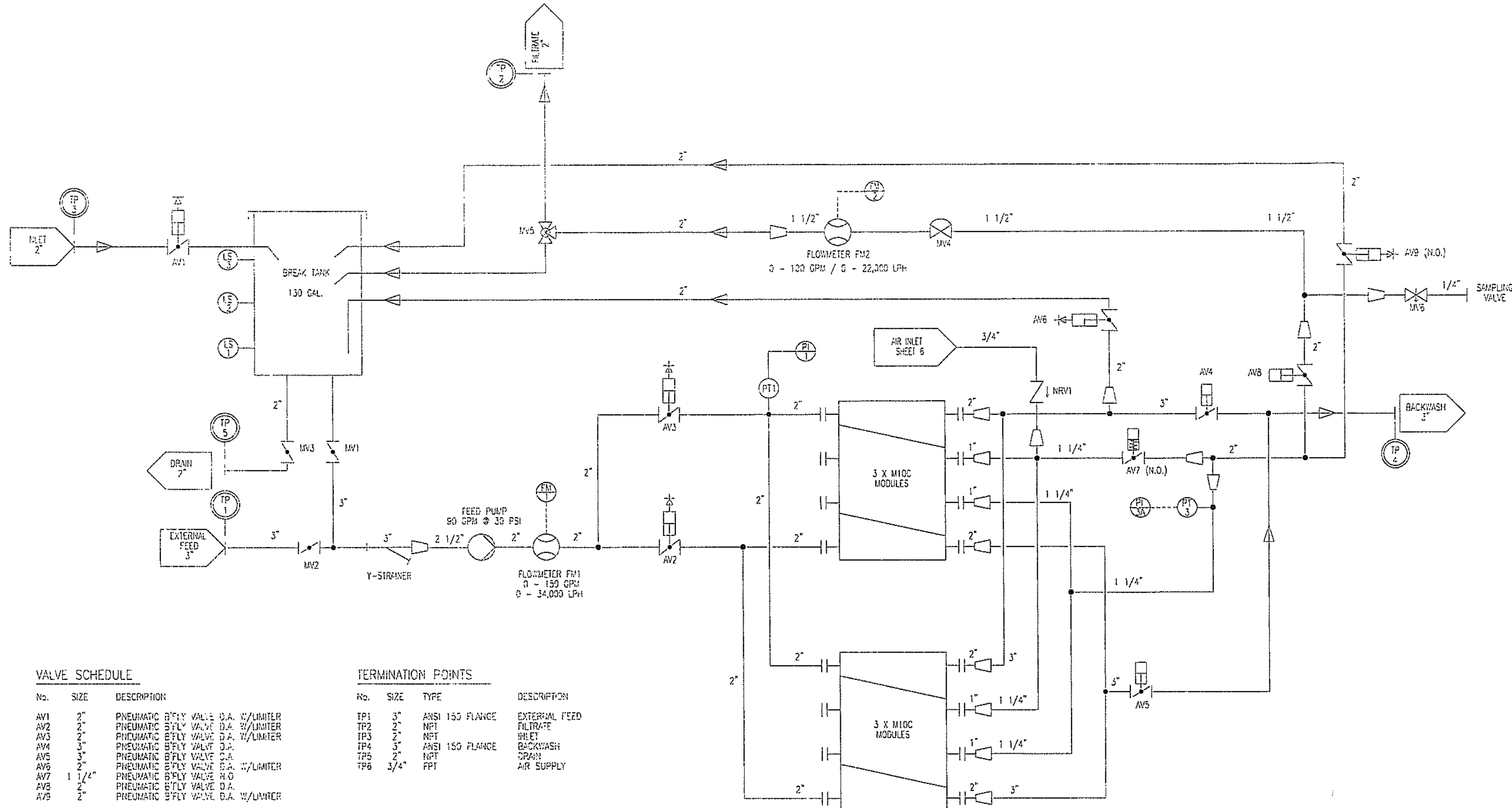
BY THE COURT:

Roger A. Klein
Water Judge
Water Division No. 1
State of Colorado

Process Schematic

PWSID: CO0135610
WTP Name: Pinewood Springs SWTP01 – 001 &
Clearwell for CT and Pump Chamber - 040





VALVE SCHEDULE

No.	SIZE	DESCRIPTION
AV1	2"	PNEUMATIC B'FLY VALVE D.A. W/LIMITER
AV2	2"	PNEUMATIC B'FLY VALVE D.A. W/LIMITER
AV3	2"	PNEUMATIC B'FLY VALVE D.A. W/LIMITER
AV4	3"	PNEUMATIC B'FLY VALVE D.A.
AV5	3"	PNEUMATIC B'FLY VALVE D.A.
AV6	2"	PNEUMATIC B'FLY VALVE D.A. W/LIMITER
AV7	1 1/4"	PNEUMATIC B'FLY VALVE N.O
AV8	2"	PNEUMATIC B'FLY VALVE D.A.
AV9	2"	PNEUMATIC B'FLY VALVE D.A. W/LIMITER
MV1	3"	MANUAL B'FLY VALVE
MV2	3"	MANUAL B'FLY VALVE
MV3	2"	MANUAL B'FLY VALVE
MV4	1 1/2"	MANUAL DIAPHRAGM VALVE
MV5	2"	MANUAL 3WAY L-PORT VALVE
MV6	1/4"	SS NEEDLE VALVE
NRV1	3/4"	DIAPHRAGM CHECK VALVE

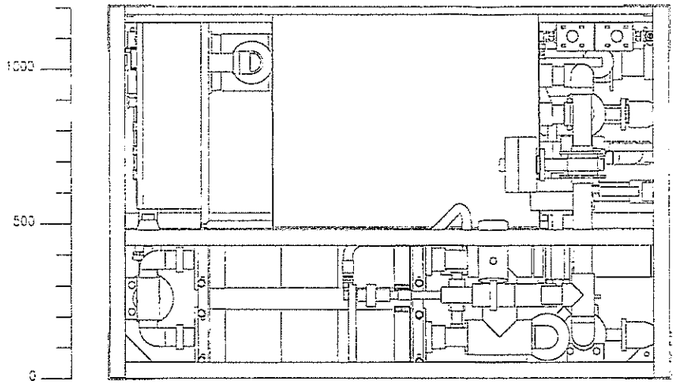
TERMINATION POINTS

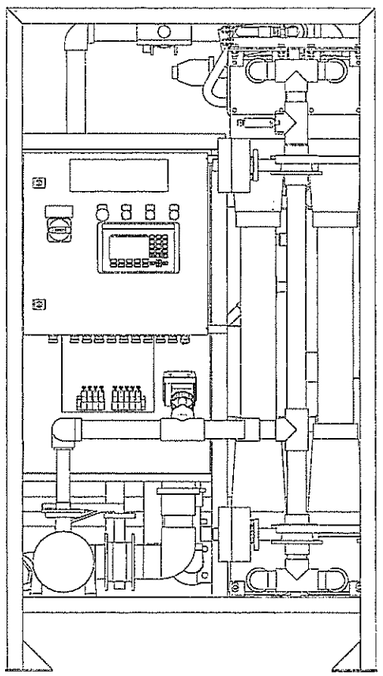
No.	SIZE	TYPE	DESCRIPTION
TP1	3"	ANSI 150 FLANGE	EXTERNAL FEED
TP2	2"	NPT	FILTRATE
TP3	2"	NPT	INLET
TP4	3"	ANSI 150 FLANGE	BACKWASH
TP5	2"	NPT	DRAIN
TP6	3/4"	FPT	AIR SUPPLY

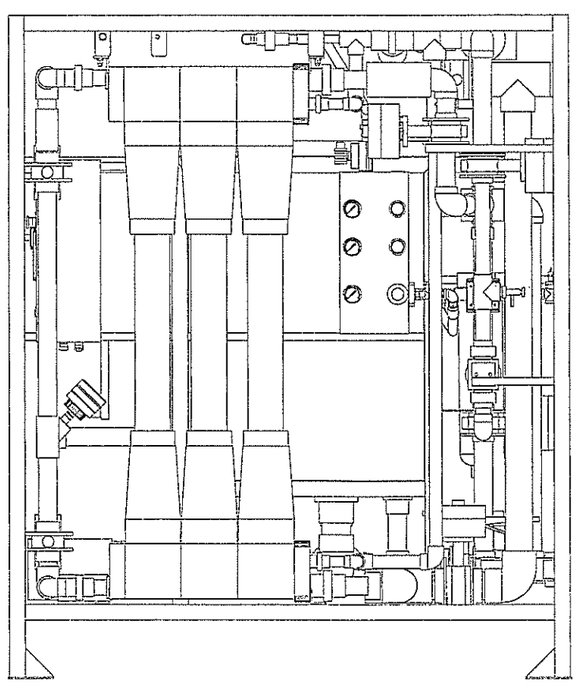
REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
A	CONSTRUCTION ISSUE	17 MAR 2000	RCH	FLN	JH	02137
2	REVISED APPROVAL ISSUE	28 FEB 2000	RCH	JKB	JH	---
1	APPROVAL ISSUE	03 FEB 2000	RCH	FLN	WDC	---
0	PRELIMINARY ISSUE	28 JAN 2000	RCH	---	---	---

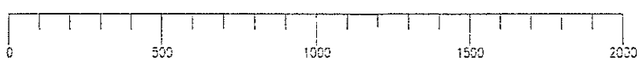
DESIGNER: PHILL	DATE: 28 JAN 2000	TITLE: 6M10C CMF UNIT 230VAC 1Ø
CHECKER: J SMITH	DATE: 31 JAN 2000	CLIENT: PINEWOOD SPRINGS WATER DISTRICT
ENGINEER: S MILMAN	DATE: 31 JAN 2000	
MANAGER	DATE	USFilter, 2118 GREENSPRING DRIVE, TIMONIUM, MD 21093 USA, TEL: 1-800-MEMCOR4
FILE: 605216-100-0		
SCALE: NONE		

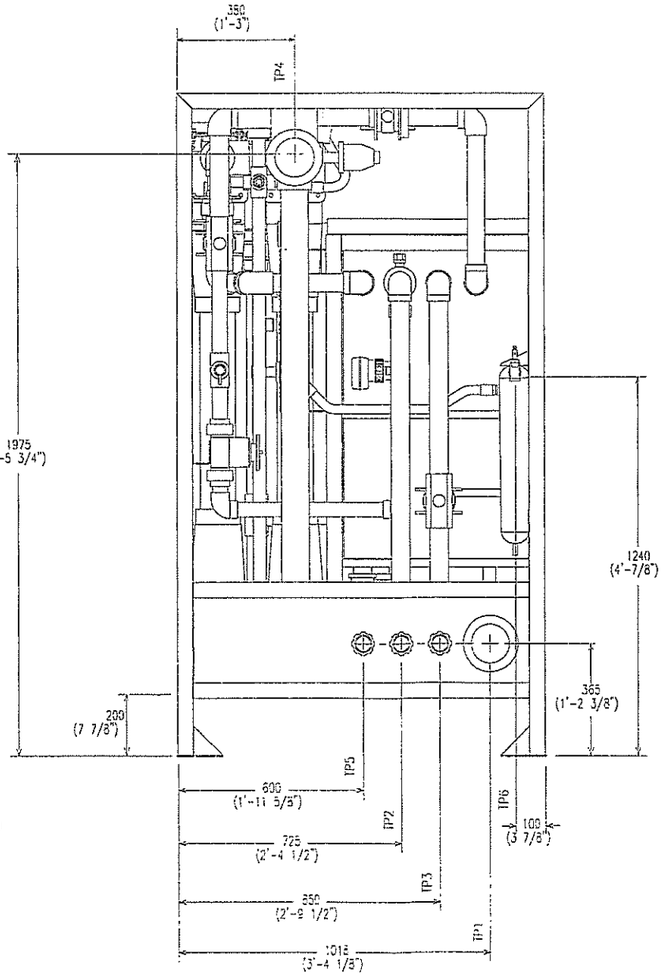
PROJECT	CODE	DRAWING	SHEET	REV
00-5216	05430	605216-100	1 OF 11	A











NOTES:

1. OVERALL DIMENSIONS ARE 1535 (5'-1/4") LONG X 1210 (3'-11 5/8") WIDE X 2175 (7'-1 5/8") TALL.
2. DRY WEIGHT IS 1900 LBS. OPERATING WEIGHT IS 3600 LBS.
3. SEE SHEET 3 FOR TERMINATION POINT TABLE.

TOLERANCES

Linear : +,- 1.5mm (1/16)
Angular: +,- 1 DEG
UNLESS NOTED OTHERWISE

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
A	CONSTRUCTION ISSUE	17 MAR 2000	RCH	FLN	JH	---
2	REVISED APPROVAL ISSUE	28 FEB 2000	RCH	JKB	JH	---
1	APPROVAL ISSUE	02 FEB 2000	RCH	FLN	WDG	---
0	PRELIMINARY ISSUE	28 JAN 2000	RCH	---	---	---

		DATE
DESIGNER	RHILL	28 JAN 2000
CHECKER	J SMITH	31 JAN 2000
ENGINEER	S WILMAN	31 JAN 2000
MANAGER		DATE

TITLE: 6M10C CMF UNIT
230VAC 1Ø

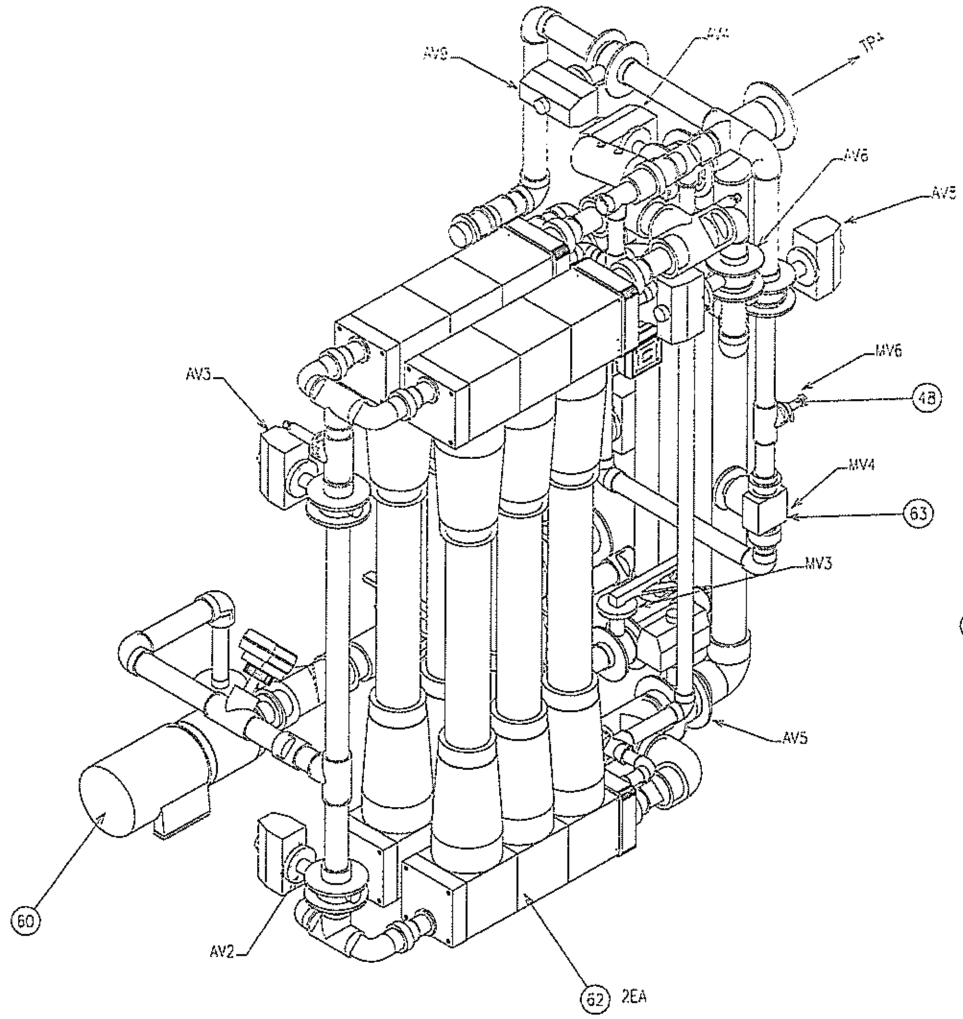
CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCORA

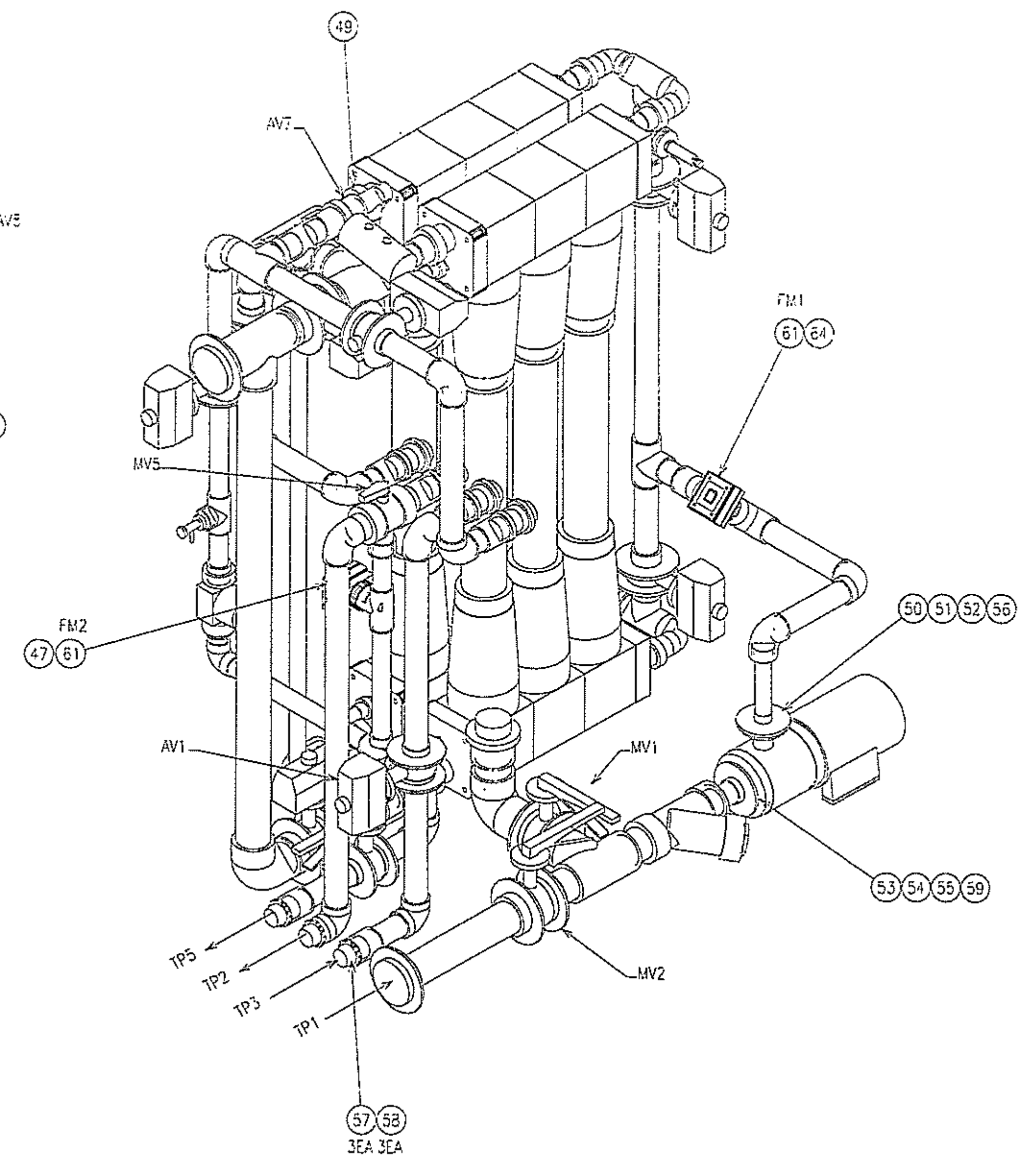
FILE: 605216-100-02
SCALE: NONE

PROJECT	CODE	DRAWING	SHEET	REV
00-5216	05430	605216-100	2 OF 11	A

STD. 2-0789-22x34D | INTERNAL REF. NO. | BAR = 1" AT PLOT SCALE



ISO 1



ISO 3

64	1	6036-120	INSTRUMENT MOUNT, 2"	PVC
63	1	6025-815	VALVE, MANUAL DIAPHRAGM 1 1/2"	PVC
62	2	6001-353	MODULE ASSEMBLY, M10C 3 BANK	N/A
61	2	6036-219	FLOWMETER ASSEMBLY, SIGNET	N/A
60	1	6060-092	PUMP, 1 1/4" x2" - 6 ", 5HP 230VAC 1Ø 60Hz	N/A
59	1	6122-339	REDUCER, 3" x 2 1/2", S x S	PVC
58	3	6307-220	LOCKNUT, ELECTRICAL 2"	N/A
57	3	6027-520	PIPE NIPPLE, 2" PIPE x MPT	ABS
56	15	6030-420	BACKING RING, 2"	GALV. STL.
55	1	6030-025	FLANGE, 2 1/2" FULL FACE VS	CPVC
54	1	6424-103	BOLT KIT, 2 1/2" FLANGE-FLANGE	GALV. STL.
53	1	6030-126	GASKET, FLANGE 2 1/2"	EPDM
52	1	6424-102	BOLT KIT, 2" FLANGE-FLANGE	GALV. STL.
51	1	6030-121	GASKET, FLANGE 2"	EPDM
50	15	6030-320	FLANGE, STUB END 2"	ABS
49	1	6036-517	VALVE, SPRING RETURN ACTUATED 1 1/4"	PVC
48	1	6036-201	VALVE, SAMPLING	304SS
47	1	6036-115	INSTRUMENT MOUNT, 1 1/2"	PVC
ITEM No.	QTY BY CUSTOMER	PART No.	DESCRIPTION	MATERIAL

BILL OF MATERIALS

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
A	CONSTRUCTION ISSUE	17 MAR 2000	RCH	FLN	JH	02137
2	REVISED APPROVAL ISSUE	----	RCH	JKE	---	---
1	APPROVAL ISSUE	03 FEB 2000	RCH	FLN	ADG	---
0	PRELIMINARY ISSUE	25 JAN 2000	RCH	---	---	---

DESIGNER: RHLL — DATE: 26 JAN 2000
CHECKER: J SMITH — DATE: 31 JAN 2000
ENGINEER: S MILVAIN — DATE: 31 JAN 2000
MANAGER — DATE
FILE: 605216-100-[illegible]
SCALE: NONE

TITLE: 6M10C CMF UNIT
230VAC 1Ø

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT: [illegible] | CODE: [illegible] | DRAWING: [illegible] | SHEET: 4 OF 11 | REV: A

STD: 2-C799-22x34D
INTERNAL REF NO.
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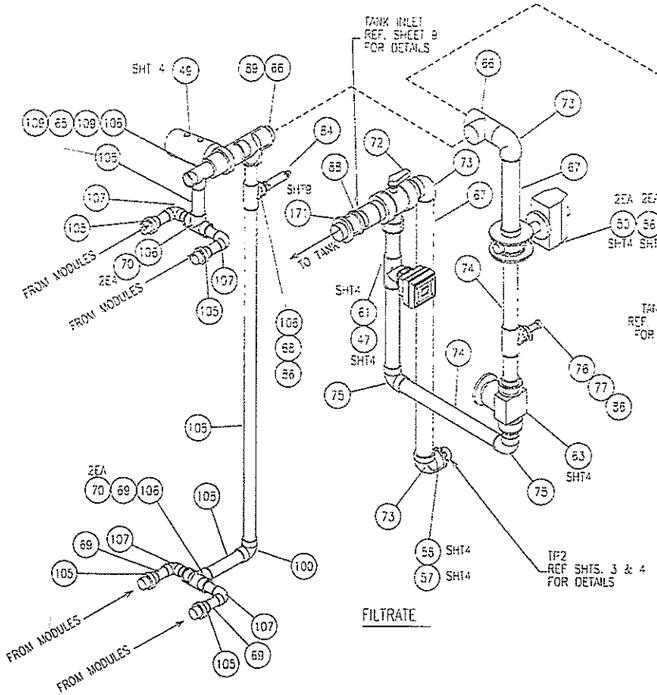
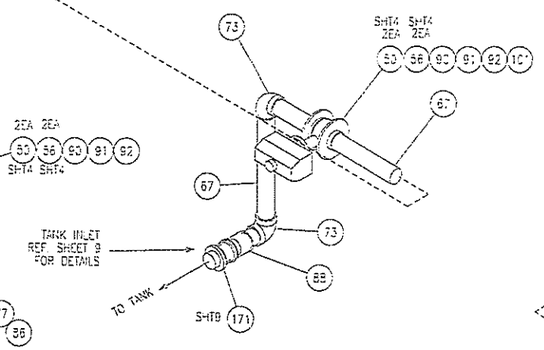
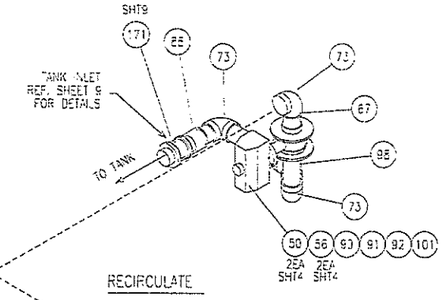


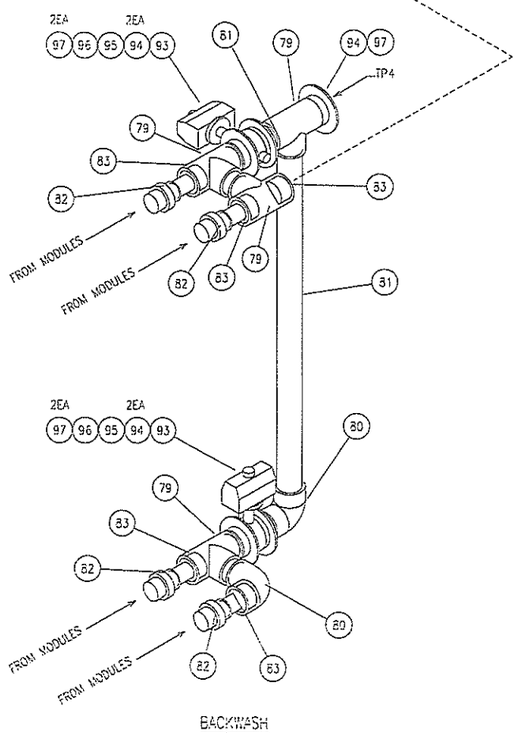
FILTRATE



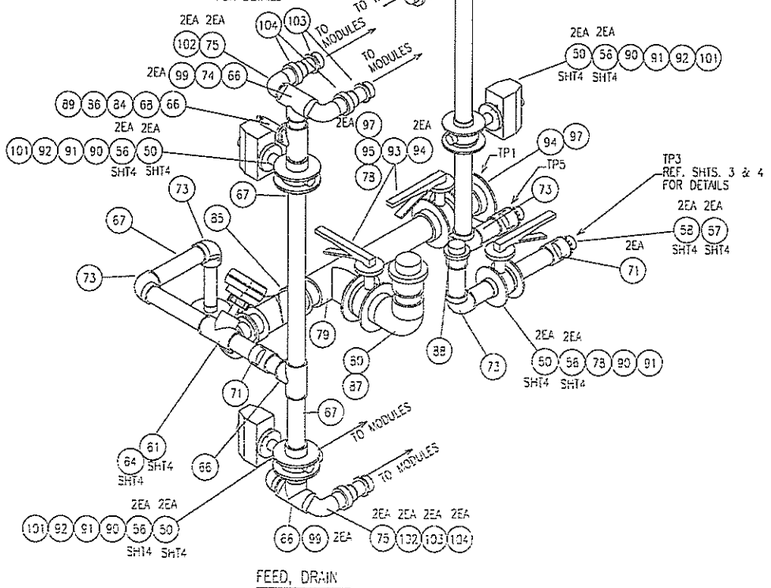
FILTRATE EXHAUST



RECIRCULATE



BACKWASH



FEED, DRAIN

ITEM No.	QTY	PART No.	DESCRIPTION	MATERIAL
109	AS REQD	6010-207	PIPE, 3/4" 230 PSI	ABS
108	AS REQD	6010-212	PIPE, 1 1/4" 230 PSI	ABS
107	4	6011-210	ELBOW, 90 DEG 1"	ABS
106	4	6013-212	TEE, 1 1/4" SCH 40	ABS
105	4	6014-210	UNION, 1" SOC X SOC	ABS
104	4	6014-215	UNION 1-1/2"	ABS
103	4	6024-251	REDUCER, 2" X 1 1/2" T X T	CPVC
102	4	6027-515	NIPPLE, PIPE 1 1/2"	ABS
101	5	6035-503	TRAVEL STOP, 2"-6" KEYSTONE VALVE"	N/A
100	1	6011-212	ELBOW, 1 1/4" 90 DEG	ABS
99	4	6125-251	REDUCER BUSHING, 2" X 1 1/2"	ABS
98	4	6012-220	ELBOW, 45 DEG 2"	ABS
97	10	6030-430	BACKING RING, 3"	GALV-STL
96	2	6035-405	ACTUATOR, 3" KEYSTONE VALVE	N/A
95	4	6424-203	BOLT KIT, 3" W/VALVE	GALV-STL
94	10	6030-330	FLANGE, STUB END 3"	ABS
93	4	6035-731	VALVE, BUTTERFLY 3"	CI/SS/EPDM
92	6	6035-407	ACTUATOR, 2" KEYSTONE VALVE	N/A
91	7	6424-202	BOLT KIT, 2" W/VALVE	GALV-STL
90	7	6035-721	VALVE, 2 IN BUTTERFLY	CI/SS/EPDM
89	2	6125-250	REDUCER BUSHING, 2" X 1 1/4" SPI X SOC	ABS
88	5	6018-221	ADAPTER, 2" SOC X MPT	CPVC
87	1	6017-030	ADAPTER, 3" SOC X MPT	CPVC
86	3	6023-972	REDUCER BUSHING, 1/2" S X 1/4" NPT	CPVC
85	1	6033-030	Y - STRAINER, 3" W/MESH SCREEN	CPVC
84	2	6302-100	TRANSDUCER, PRESSURE 0-100 PSI	N/A
83	5	6125-338	REDUCER BUSHING, 3" X 2" SPI X SOC	ABS
82	5	6014-220	UNION, 2"	ABS
81	AS REQD	6010-230	PIPE, 3" 230 PSI	ABS
80	3	6011-230	ELBOW, 90 DEG 3"	ABS
79	5	6013-230	TEE, 3"	ABS
78	3	6025-501	HANDLE, VALVE W/NOTCH PLATE 2" & 3"	STEEL
77	1	6125-209	REDUCER BUSHING, 1 1/2" X 1/2" SPI X SOC	ABS
76	1	6013-215	TEE, 90 DEG 1 1/2"	ABS
75	6	6011-215	ELBOW, 90 DEG 1 1/2"	ABS
74	AS REQD	6010-215	PIPE, 1 1/2"	ABS
73	14	6011-220	ELBOW, 90 DEG 2"	ABS
72	1	6025-520	VALVE, 2" 3 WAY MANUAL	CPVC
71	3	6016-220	COUPLING, 2" S X S	ABS
70	4	6125-165	REDUCER BUSHING, 1 1/4" X 1" SPI X SOC	ABS
69	AS REQD	6010-210	PIPE, 1"	ABS
68	2	6125-166	REDUCER BUSHING, 1 1/4" X 1/2" SPI X SOC	ABS
67	AS REQD	6010-220	PIPE, 2"	ABS
66	6	6013-220	TEE, 2"	ABS
65	1	6125-167	REDUCER BUSHING, 1 1/4" X 3/4" SPI X SOC	ABS

BILL OF MATERIALS

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
A	CONSTRUCTION ISSUE	17 MAR 2003	RCH	FLN	JH	02137
2	REVISED APPROVAL ISSUE	26 FEB 2003	RCH	JKB	JH	---
1	APPROVAL ISSUE	22 FEB 2003	RCH	FLN	WDG	---
C	PRELIMINARY ISSUE	28 JAN 2003	RCH	---	---	---

DESIGNER	RHILL 28 JAN 2003
CHECKER	J SMITH 31 JAN 2003
ENGINEER	S MALHAN 31 JAN 2003
MANAGER	DATE
FILE:	605216-100-05
SCALE:	NONE

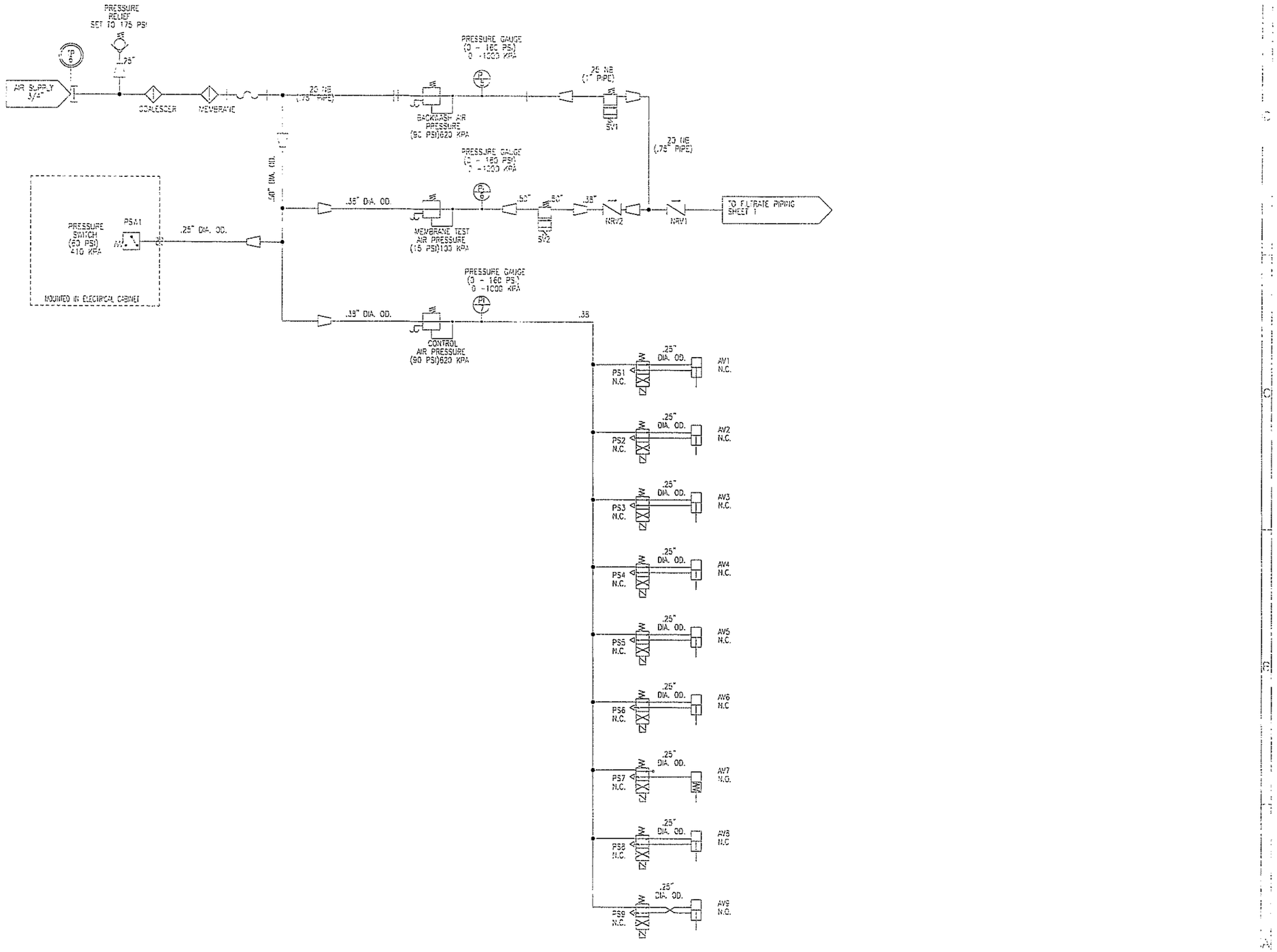
TITLE: 6M10C CMF UNIT 230VAC 1Ø

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCORA

PROJECT	CODE	DRAWING	SHEET	REV
00-5216	05430	605216-100	5 OF 11	A

STD. 2-0799-22A34D | INTERNAL REF NO | BAR = 1" AT PLOT SCALE



REV	DESCRIPTION	DATE	DRN	CHKD	APVD	ECN
A	CONSTRUCTION ISSUE	17 MAR 2003	RCH	FLN	JH	02137
2	REVISED APPROVAL ISSUE	28 FEB 2003	RCH	JKB	JH	---
1	APPROVAL ISSUE	03 FEB 2003	RCH	FLN	ADC	---
0	PRELIMINARY ISSUE	28 JAN 2003	RCH	---	---	---

STD: 2-0799-22x34D | INTERNAL REF NO: | BAR = 1" AT PLOT SCALE

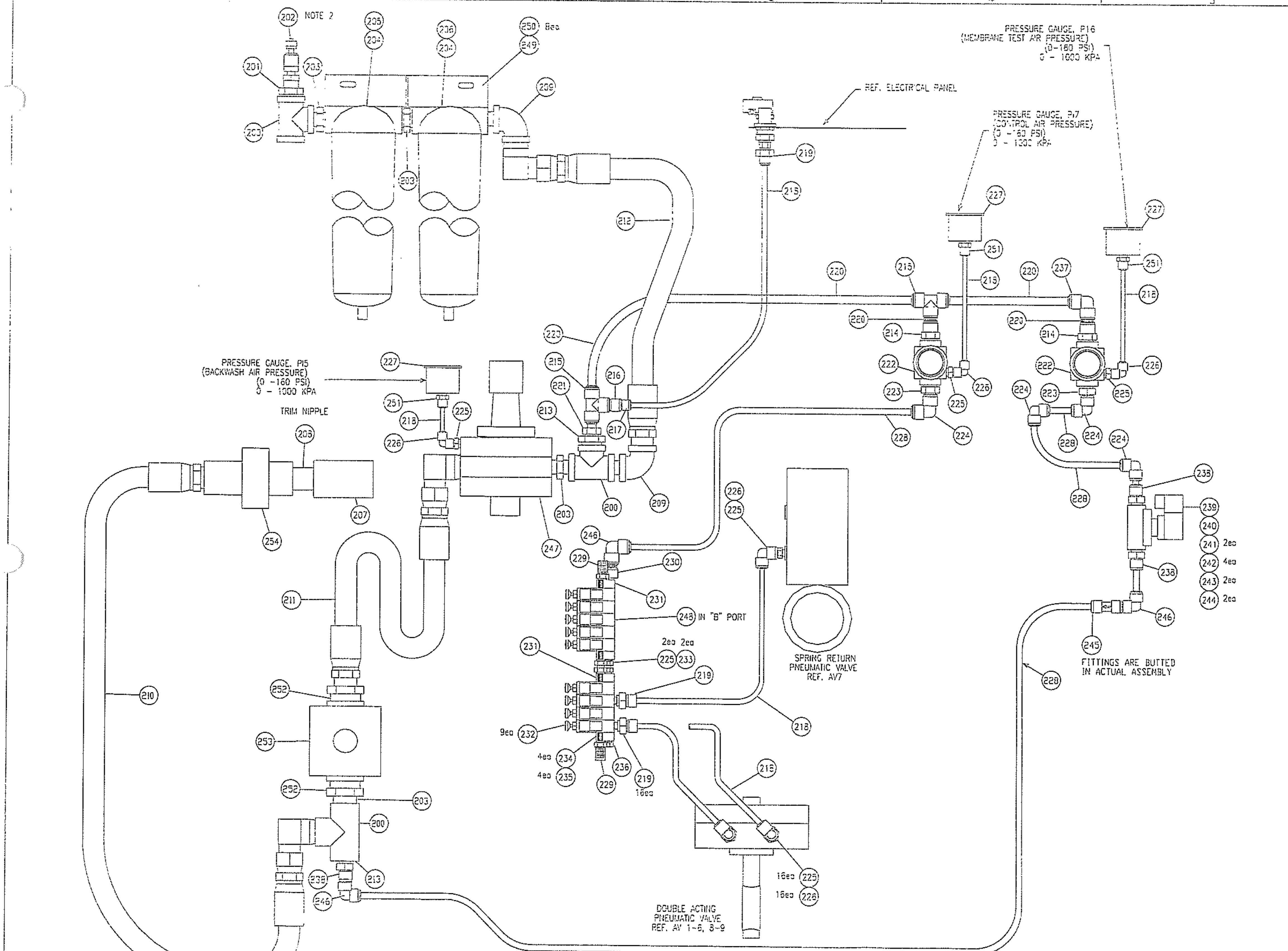
		DATE
DESIGNER	RHIL	28 JAN 2003
CHECKER	J SMITH	31 JAN 2003
ENGINEER	S HUMAN	31 JAN 2003
MANAGER		DATE
FILE	605216-100-02	
SCALE:	NONE	

TITLE: 6M10C CMF UNIT 230VAC 1Ø

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFILTER
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-VENCORE

PROJECT	CODE	DRAWING	SHEET	REV
00-5216	05430	605216-100	6 OF 11	A



ITEM No.	QTY	PART #	DESCRIPTION	MATERIAL
254	1	6028-007	VALVE, DIAPHRAGM CHECK 3/4"	PVC
253	1	6312-104	VALVE, SOLENOID 1"	N/A
252	2	6313-511	REDUCER BUSHING, 1" NPT X 3/4" NPT	BRASS
251	3	6313-352	ADAPTER, 1/4" FPT	N/A
250	5	10596-032	SCREW, SELF TAPPING 1/4-14 X 1/2IN LONG	SS
249	1	6501-202	BRACKET, COALESCER/MEMBRANE	SS
248	1	6313-401	PLUG, HEX SOCKET 1/8"	BRASS
247	1	6304-017	REGULATOR, 3/4" NPT 5-125 PSI	N/A
246	3	6313-057	PLUG IN ELBOW 3/8"	N/A
245	1	6028-310	VALVE, NON RETURN 3/8" IN LINE	N/A
244	2	6401-106	NUT, HEX M6	304SS
243	2	6402-206	WASHER, LOCK 6MM	304SS
242	4	6402-106	WASHER, FLAT 6MM	304SS
241	2	6404-605	SCREW, PAN HEAD 6MM X 25MM	304SS
240	1	6501-203	BRACKET, SOLENOID VALVE MOUNTING	CAD-PLT.STL.
239	1	6312-103	VALVE, SOLENOID GOYEN 1/2" 24 VAC	N/A
238	3	6313-011	ADAPTER, MALE 3/8" X 1/2" NPT	N/A
237	1	6313-225	ELBOW, UNION 1/2"	N/A
236	1	6313-402	PLUG, PIPE 1/4"	BRASS
235	4	6404-404	SCREW, PAN HEAD 4MM X 20MM	304SS
234	4	6402-204	WASHER, LOCK 4MM	304SS
233	2	6313-004	CONNECTOR, 1/4" T X MPT	N/A
232	9	6312-204	VALVE, SOLENOID MAC45 24V MANIFOLD	N/A
231	2	6312-201	END PLATE, MANIFOLD KIT SOLENOID VALVE	N/A
230	1	6313-009	CONNECTOR, MALE 3/8" X 1/4" NPT	N/A
229	2	6313-605	AIR MUFFLER, 1/4" NPT	N/A
228	20 FT.	6314-003	TUBING, FLEX 3/8"	NYLON
227	3	6302-014	GAUGE, PRESSURE 2" 0-160 PSI	N/A
226	20	6313-222	ELBOW, UNION 1/4"	N/A
225	22	6313-044	ADAPTER, STEM 1/4" X 1/4"	N/A
224	4	6313-224	ELBOW, UNION 3/8"	N/A
223	2	6313-049	ADAPTER, STEM 3/8" X 3/8"	N/A
222	2	6314-011	REGULATOR, 3/8" NPT 0-125 PSI	N/A
221	1	6313-050	ADAPTER, STEM 1/2" X 3/8"	N/A
220	62 FT.	6314-004	TUBING, FLEX 1/2"	NYLON
219	17	6313-003	CONNECTOR, MALE 1/4" X 1/8" NPT	N/A
218	500 FT.	6314-001	TUBING, FLEX 1/4"	NYLON
217	1	6313-062	REDUCER, 5/16" X 1/4"	N/A
216	1	6313-065	REDUCER, 1/2" X 5/16"	N/A
215	2	6313-205	TEE, UNION 1/2" TUBE	N/A
214	2	6313-013	CONNECTOR, MALE 1/2" TUBE X NPT	N/A
213	2	6313-510	REDUCER BUSHING, 3/4" MPT X 1/2" FPT	BRASS
212	1	6314-032	HOSE, AIR, FLEX, FILTER TO REGULATOR	N/A
211	1	6314-031	HOSE, AIR, FLEX, REGULATOR TO SOLENOID	N/A
210	1	6314-033	HOSE, AIR, FLEX, SOLENOID TO CHECK VALVE	N/A
209	2	6313-765	ELBOW, STREET 90 DEG. 3/4" NPT	BRASS
208	1	6027-507	NIPPLE, PIPE 3/4" - 3" LONG	ABS
207	1	6016-207	COUPLING, 3/4" S X S	ABS
206	1	93011178-054	FILTER, MEMBRANE VFSH	N/A
205	1	8207003-000	FILTER, REVERSE DUO-FINE 20	N/A
204	2	910514-000	HOUSING, LM05S20B-3/4	BRASS/SS
203	4	6313-715	NIPPLE, PIPE HEX 3/4"	BRASS
202	1	6304-035	VALVE, PRESSURE RELIEF 175 PSI	N/A
201	1	6313-508	REDUCER BUSHING, 3/4" NPT X 1/4" NPT	BRASS
200	3	6313-752	TEE, PIPE 3/4" NPT	BRASS

BILL OF MATERIALS

NOTES:

1. DRAWING INTENDED TO SHOW CONNECTION RELATIONSHIP OF COMPONENTS AND NOT TRUE ORIENTATION OR SIZE. SEE SHEET 8 FOR TRUE ORIENTATION OF PROCESS AIR COMPONENTS.
2. ITEM 202, PRESSURE RELIEF VALVE TO BE SET TO 175 PSI.

STD: 2-0799-22x340

INTERNAL REF NO.

BAR = 1" AT PLOT SCALE

REV	DESCRIPTION	DATE	DRN	CHKD	APVD	ECN
A	CONSTRUCTION ISSUE	17 MAR 2000	RCH	FLN	JH	02137
2	REVISED APPROVAL ISSUE	23 FEB 2000	RCH	JKS	JH	----
1	APPROVAL ISSUE	02 FEB 2000	RCH	FLN	WDG	---
0	PRELIMINARY ISSUE	26 JAN 2000	RCH	---	---	---

DESIGNER	DATE
RHILL	26 JAN 2000
CHECKER	DATE
J SMITH	31 JAN 2000
ENGINEER	DATE
S MILVAIN	31 JAN 2000
MANAGER	DATE

FILE: 605216-100-07

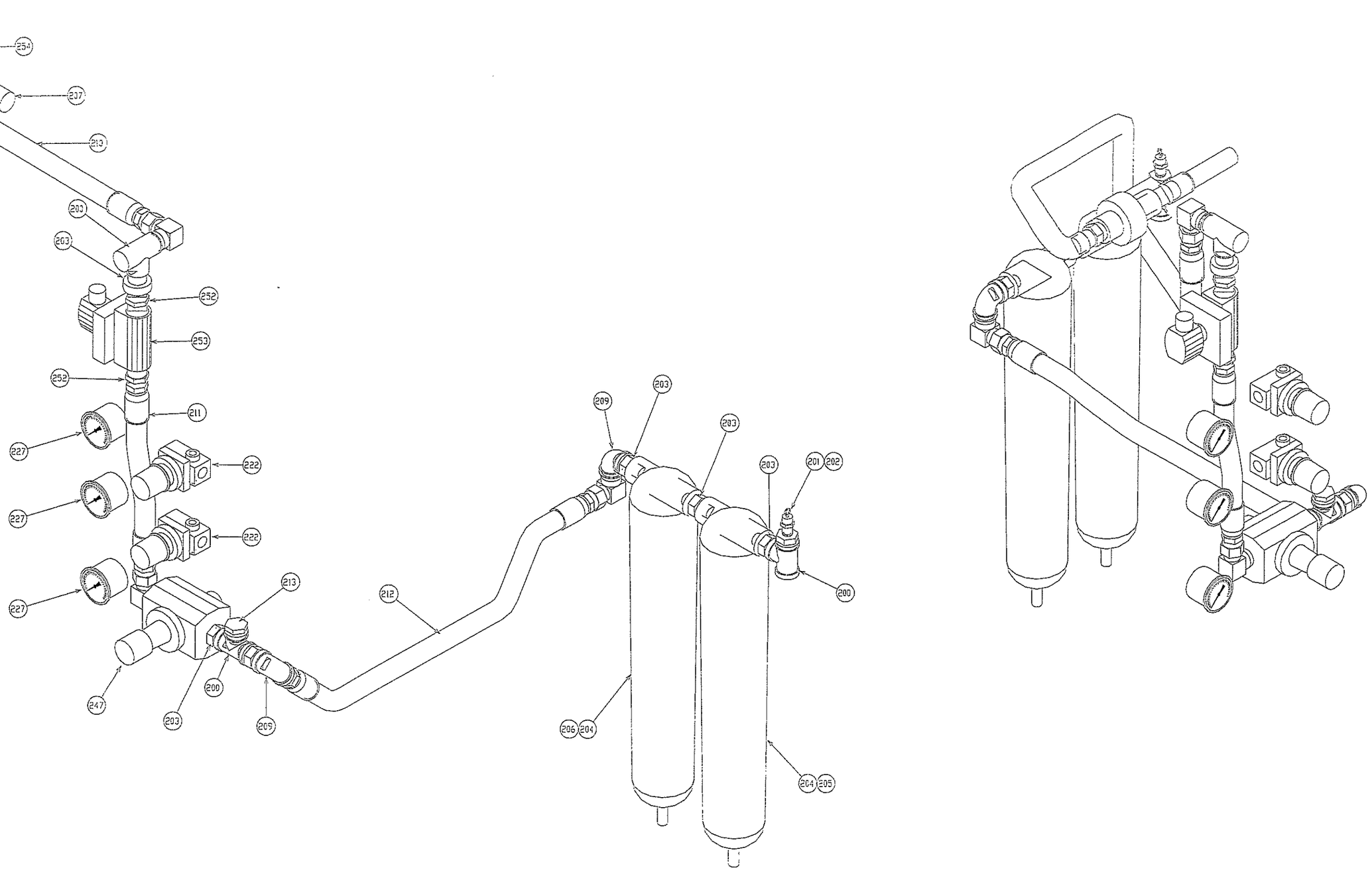
SCALE: NONE

TITLE 6M10C CMF UNIT
230VAC 1Ø

CLIENT PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
00-5216	05430	605216-100	7 OF 11	A



NOTES:

1. SEE SHEET 7 FOR B.O.M.

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
A	CONSTRUCTION ISSUE	17 MAR 2009	RCH	FLN	JH	02137
2	REVISED APPROVAL ISSUE	28 FEB 2009	RCH	JKB	JH	---
1	APPROVAL ISSUE	02 FEB 2009	RCH	FLN	MDG	---
0	PRELIMINARY ISSUE	28 JAN 2009	RCH	---	---	---

DESIGNER	DATE
RHILL	28 JAN 2009
CHECKER	DATE
J SMITH	31 JAN 2009
ENGINEER	DATE
S MELVAIN	31 JAN 2009
MANAGER	DATE
TITLE	605216-100-05
SCALE	NONE

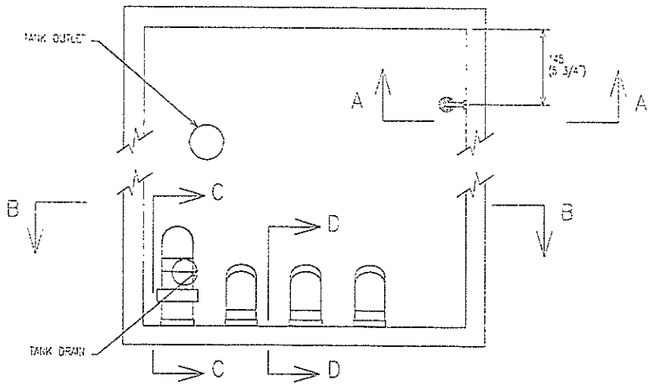
TITLE 6M10C CMF UNIT
230VAC 10

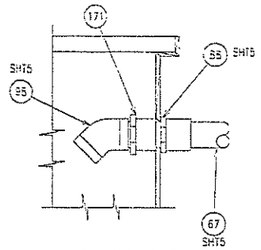
CLIENT PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

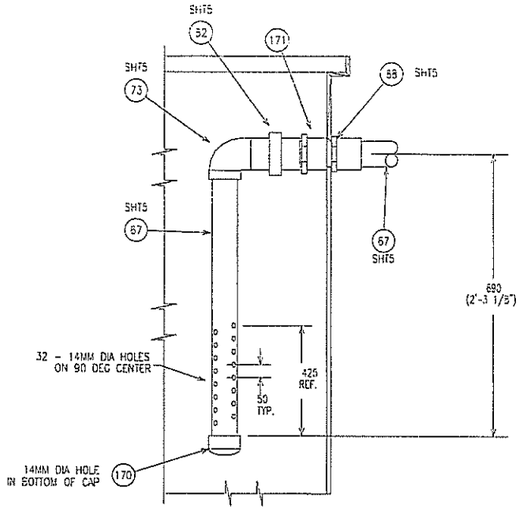
PROJECT	CODE	DRAWING	SHEET	REV
00-5216	05430	605216-100	5 OF 11	A

STD: 2-0799-22X34C | INTERNAL REF NO. | BAR = 1" AT PLOT SCALE

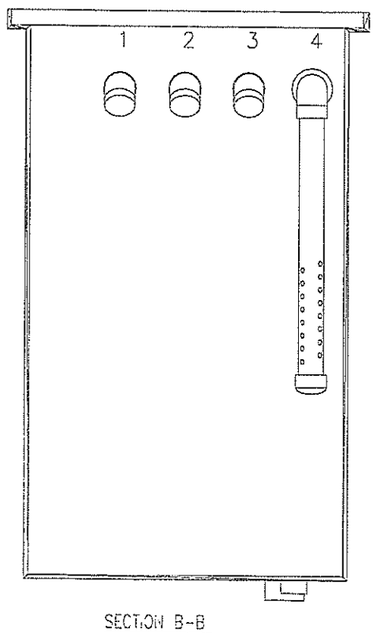




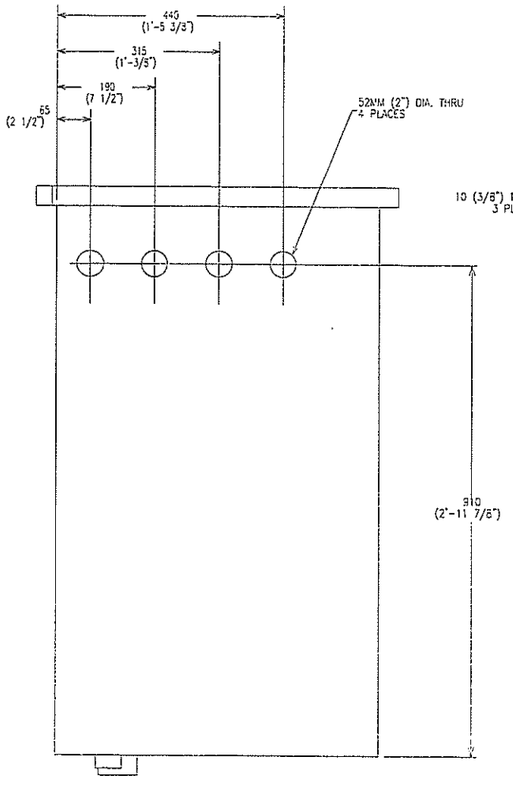
PART SECTION D-D
INLETS 1, 2, & 3

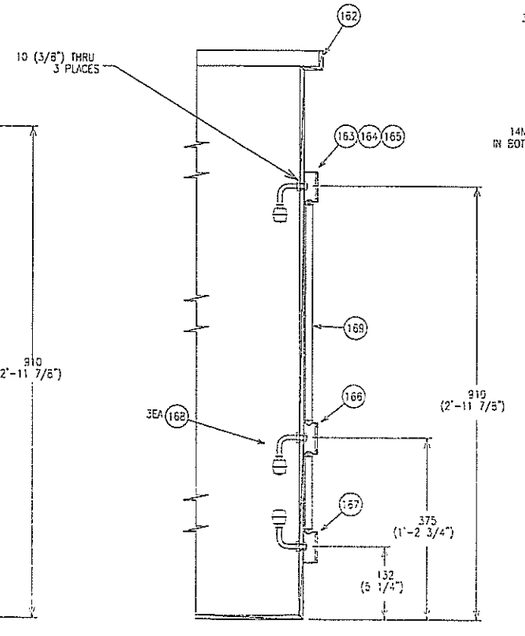


PART SECTION C-C
DOWN PIPE 4



SECTION B-B





SECTION A-A

ITEM NUMBER	QTY	PART #	DESCRIPTION	MATERIAL
171	4	6018-220	ADAPTER, MALE, 2" ABS	ABS
170	1	6015-220	PIPE CAP, 1/2"	ABS
169	30"	6010-205	PIPE, 1/2"	ABS
165	3	6309-303	SWITCH, LEVEL RIKO #RFS4-2 SS 240V	N/A
167	1	6307-501	CONDULET, TYPE LR 1/2"	N/A
166	1	6307-503	CONDULET, TYPE C 1/2"	N/A
165	1	6307-921	CORD GRIP, .31" - .56"	AL
164	1	6307-502	CONDUIT, FEMALE CONNECTOR 1/2"	N/A
163	1	6307-509	CONDULET, 1/2" TYPE LL	PVC
162	1	6150-115	TANK, 130 GALLON RECTANGULAR	N/A

BILL OF MATERIALS

TOLERANCES

Linear : +,- 1.5mm. (1/16)
Angular: +,- 1 DEG.
UNLESS NOTED OTHERWISE

REV	DESCRIPTION	DATE	DSN	CHKD	APVD	ECN
A	CONSTRUCTION ISSUE	17 MAR 2003	RCH	FLN	JH	02137
2	REVISED APPROVAL ISSUE	28 FEB 2003	RCH	JKG	JH	---
1	APPROVAL ISSUE	09 FEB 2003	RCH	FLN	WDG	---
0	PRELIMINARY ISSUE	28 JAN 2003	RCH	---	---	---

DESIGNER	RHILL — DATE 28 JAN 2003
CHECKER	J SMITH — DATE 31 JAN 2003
ENGINEER	S MILVAIN — DATE 31 JAN 2003
MANAGER	DATE
FILE:	605216-100-05
SCALE:	NONE

TITLE: 6M10C CMF UNIT
230VAC 1Ø

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCORP

PROJECT	CODE	DRAWING	SHEET	REV
00-5218	05430	605216-100	9 OF 11	A

STD: 2-0799-22x34D — INTERNAL REF NO. — BAR = 1" AT PLOT SCALE

230VAC 1Ø 60Hz

CIRCUIT BREAKER 40 AMP

CONTACTOR IEC 37A 24VDC

OVERLOAD IEC 12-32A

M1 5.0 HP

6060-092

EXTERNAL TO PANEL. SHOWN FOR CONNECTION REFERENCE ONLY.

FUSE FNQ-R 5 AMP

FUSE FNQ-R 3.5 AMP

FUSE FNQ 2 AMP

FUSE FNQ 15 AMP

275 VA

180 VA

POWER ON

PUMP ON

AB 1746-P1 POWER SUPPLY

AB 1746-L532 PROCESSOR SLOT 0

AB2711-K5A5 PANEL VIEW 550 OPERATOR TERMINAL

AB1747-AIC

DAISY CHAINED AIC DATA HWY CABLE BELDEN 9842 NOTE 3

DRAIN
WHITE
BLACK
RED

NOTE 2

MOUNTED OUTSIDE OF PANEL

LOW LEVEL LS1

HIGH LEVEL LS2

HIGH LEVEL LS3

EMERGENCY STOP ES1

LOW AIR PRESSURE PSW1

SPARE

PUMP OVERLOAD

AB 1746-IB16 SLOT 1

AB 1746-OW16 SLOT 2

AB 1746-NI4 SLOT 3

MOUNTED OUTSIDE OF PANEL

PS1 PS2 PS3 PS4 PS5 PS6 PS7 PS5 PS9 SV1 SV2

FILTRATION TRIGGER

PDT TRIGGER

MEMLOG DATA PORT D CONNECTOR

SPARE

ALARM

PUMP

24VAC CONTINUED ON SHEET 11

RACK BACK PLANE CONTINUED ON SHEET 11

	SLOT 0	SLOT 1	SLOT 2	SLOT 3	SLOT 4	SLOT 5	SLOT 6
AB 1746-P1 POWER SUPPLY	AB 1747-L532 SLC 5/03 PROCESSOR	AB 1746-IB16 SINK INPUT INPUTS: I:1.0/0-I:1.0/15	AB 1746-OW16 RELAY OUTPUT OUTPUTS: O:2.0/0-O:2.0/15	SPARE	AB 1746-NI4 ANALOG INPUT INPUTS: I:4.0-I:4.3	SPARE	SPARE

PLC CONFIGURATION TABLE
ALLEN BRADLEY SLC5/03
7 SLOT RACK AB1746-A7

NOTES:
1. OPTIONAL AIC ISOLATED LINK COUPLER IS INSTALLED ONLY IN MULTIPLE CMF INSTALLATIONS WHERE COMMUNICATION BETWEEN CMF UNITS IS REQUIRED.
2. CHASS DATA HIGHWAY CABLE IS INSTALLED BY THE CONTRACTOR.

WIRE COLORS:
GROUND - GREEN, GN/YE
24 VAC - VIOLET
110 VAC - BLACK
230/460 VAC - BLACK
GRN NEUTRAL 24 VAC - GRAY
GRN NEUTRAL 110 VAC - WHITE
24 VAC PLC OUTPUTS - ORANGE
24 VDC INPUTS - RED
24 VDC (POSITIVE) - RED
24 VDC (NEGATIVE) - D. BLUE

STD: 2-0799-22x34D

INTERNAL REF NO:

BAR = 1" AT PLOT SCALE

REV	DESCRIPTION	DATE	DRN	CHKD	APVD	ECN
A	CONSTRUCTION ISSUE	17 MAR 2003	RCH	FLN	JH	02137
2	REVISED APPROVAL ISSUE	06 FEB 2003	RCH	JKB	JH	---
1	APPROVAL ISSUE	02 FEB 2003	RCH	FLN	WDD	---
0	PRELIMINARY ISSUE	28 JAN 2003	RCH	---	---	---

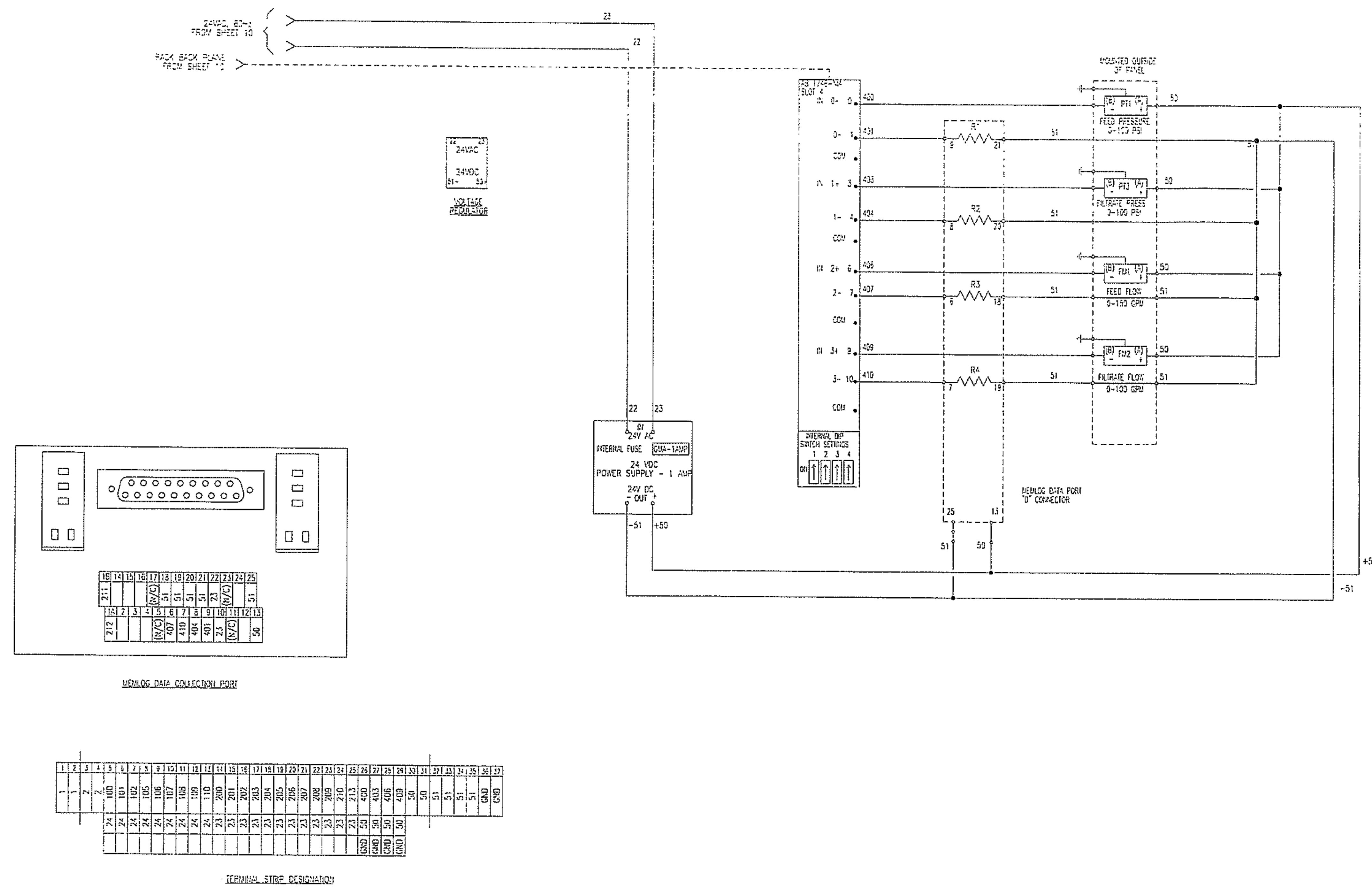
DESIGNER	RHILL
DATE	28 JAN 2003
CHECKER	J SMITH
DATE	27 JAN 2003
ENGINEER	S MILVAIN
DATE	31 JAN 2003
MANAGER	
DATE	
FILE:	805216-120-11
SPEC:	NONE

TITLE: 6M10C CMF UNIT 230VAC 1Ø

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
02-5216	25430	805216-120	10 OF 11	A



WIRE COLORS:

GROUND	- GREEN, GN/YE
24 VAC	- VIOLET
110 VAC	- BLACK
230/460 VAC	- BLACK
GRN NEUTRAL 24 VAC	- GRAY
GRN NEUTRAL 110 VAC	- WHITE
24 VAC PLC OUTPUTS	- ORANGE
24 VDC INPUTS	- RED
24 VDC (POSITIVE)	- RED
24 VDC (NEGATIVE)	- D BLUE

STD: 2-0799-22x34D

INTERNAL REF NO.

BAR = 1" AT PLOT SCALE

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
A	CONSTRUCTION ISSUE	17 MAR 2003	RCH	FLN	JH	02137
2	REVISED APPROVAL ISSUE	03 FEB 2003	RCH	JKB	JH	---
1	APPROVAL ISSUE	02 FEB 2003	RCH	FLN	ADG	---
0	PRELIMINARY ISSUE	28 JAN 2003	RCH	---	---	---

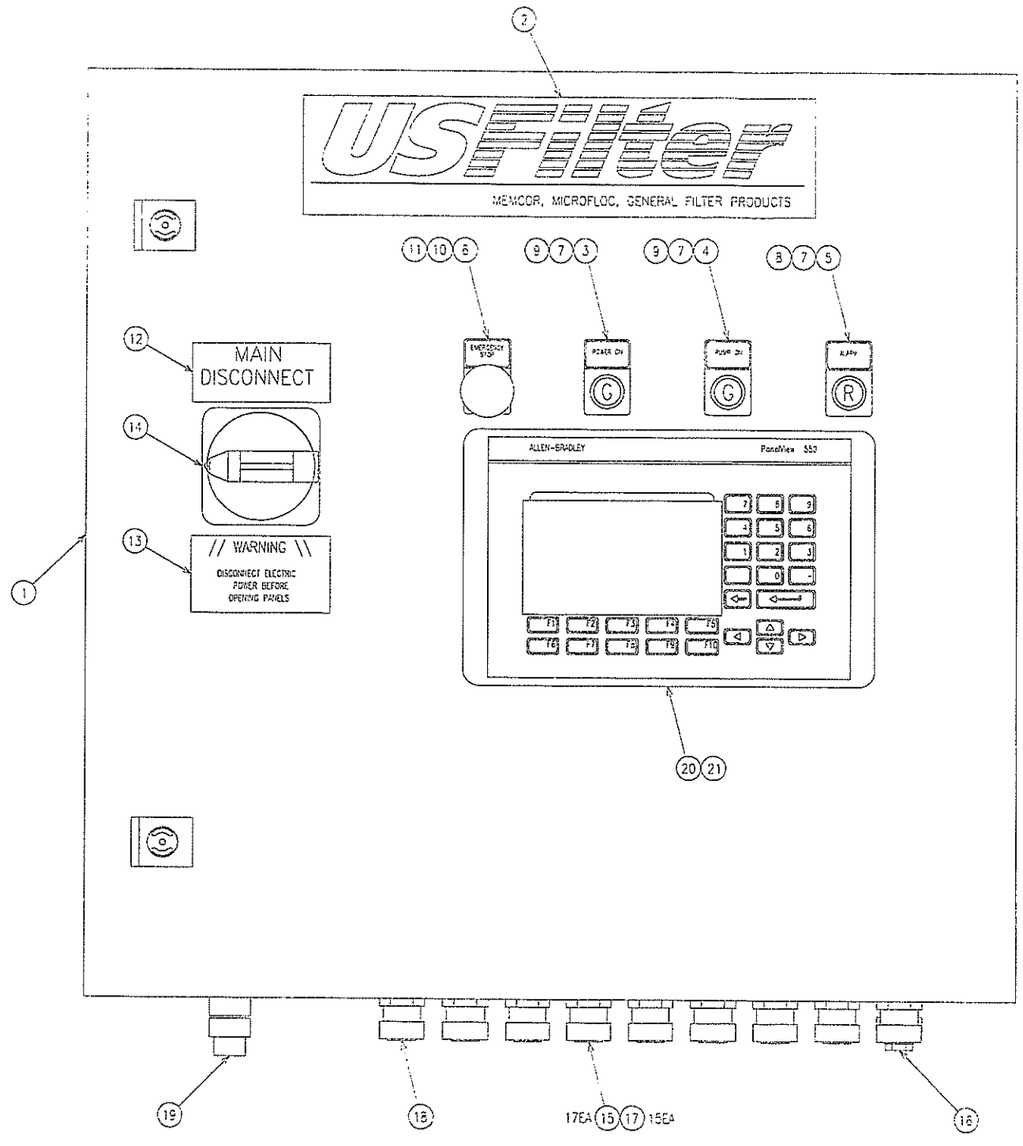
DESIGNER: FHILL	DATE: 28 JAN 2003
CHECKER: J SMITH	DATE: 31 JAN 2003
ENGINEER: S MILVAIN	DATE: 31 JAN 2003
MANAGER	DATE
FILE: 605216-100-1	
SCALE: NONE	

TITLE: 6M10C CMF UNIT 230VAC 1Ø

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
02-5216	05430	605216-100	11 OF 11	A



ITEM NUMBER	QTY	PART NUMBER	DESCRIPTION	MATERIAL
21	1	6056-304	CABLE, COMMUNICATION, PANELVIEW-550	N/A
20	1	6056-303	TERMINAL, PANELVIEW-550	N/A
19	1	6307-402	CONNECTOR, FLEX COND, STRAIGHT 1/2	N/A
18	1	6307-021	CORD GRIP, .31 - .56	N/A
17	15	6307-020	CORD GRIP, .12 - .35	N/A
16	1	6303-013	SWITCH, PRESSURE ASCO 40-120	N/A
15	17	6307-205	LOCKNUT, ELECTRICAL 1/2"	N/A
14	1	6309-213	HANDLE ASSEMBLY, DISCONNECT	N/A
13	1	6099-017	LABEL "WARNING DISCONNECT"	N/A
12	1	6099-016	LABEL "MAIN DISCONNECT"	N/A
11	1	6309-114	CONTACT BLOCK, MINIATURE, 1 NO CONTACT	N/A
10	1	6309-112	PUSH BUTTON, MUSHROOM HEAD, TURN TO RELEASE	N/A
9	1	6310-115	PILOT, LENS, GREEN	N/A
8	1	6310-114	PILOT, LENS, RED	N/A
7	3	6310-107	PILOT, 24 VAC W/O LENS	N/A
6	1	6311-126	PLATE, LEGEND "EMERGENCY STOP"	N/A
5	3	6311-168	PLATE, LEGEND "ALARM"	N/A
4	1	6311-114	PLATE, LEGEND "PUMP ON"	N/A
3	1	6311-110	PLATE, LEGEND "POWER ON"	N/A
2	1	6029-026	LABEL, LARGE, "USFILTER/MEMCOR"	N/A
1	1	6057-015	ENCLOSURE, 600H x 600W x 210D	SS

BILL OF MATERIALS

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	CHANGE QTY IN BOM	09 MAY 2003	RH	FLN	JDG	02155/02429
B	ITEM 1- PART NO. 6057-015 WAS 6057-005	24 MAR 2003	K.A.	FLN	JJH	02124
A	CONSTRUCTION ISSUE	28 JAN 2003	RH	FLN	JDG	---
0	PRELIMINARY ISSUE	28 JAN 2003	RCH	---	---	---

DESIGNER	DATE 28 JAN 2003
CHECKER	DATE
L. SMITH	28 JAN 2003
ENGINEER	DATE
S. MAHAN	28 JAN 2003
MANAGER	DATE
FILE: 6057-553-1	
SCALE: 2	

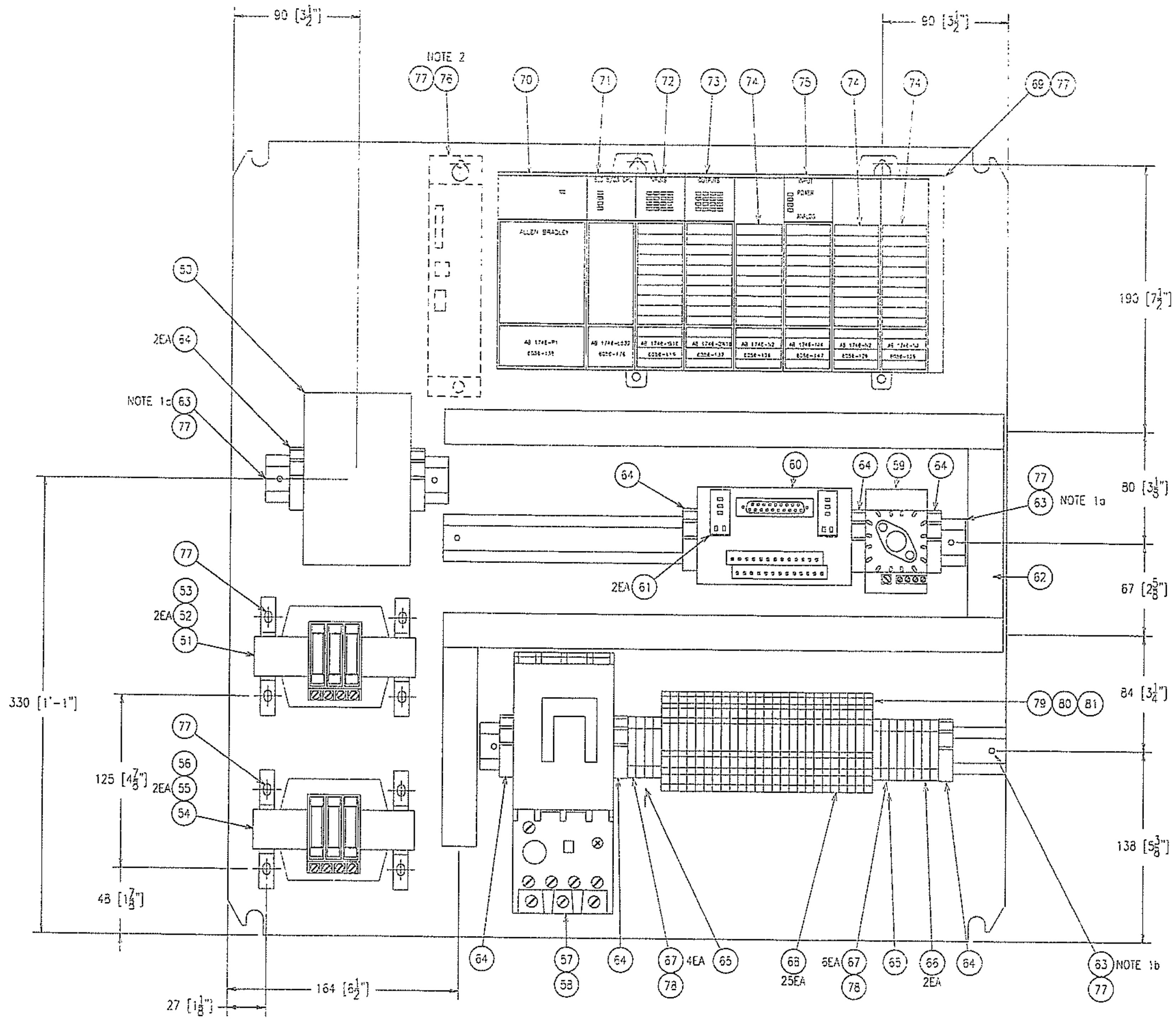
TITLE: ELECTRICAL PANEL LAYOUT
8M10C CMF UNITS
230VAC 1Ø 60Hz

SIZE: D

USFilter
21118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
		6057-553	1 OF 2	C

STD: 2-0799-22X34D | INTERNAL REF NO: | BAR = 1" AT PLOT SCALE



INTERIOR PANEL LAYOUT

81	AS REQD	6053-111	CONNECTOR, BRIDGE, RED	N/A
80	AS REQD	6053-112	CONNECTOR, BRIDGE, WHITE	N/A
79	AS REQD	6053-040	TERMINAL NUMBERS	N/A
78	AS REQD	6053-030	BAR, CENTER BRIDGE	N/A
77	AS REQD	6405-059	SCREW, SELF TAPPING #10-5/8	N/A
ITEMS ABOVE NOT SHOWN				
76	1	6056-150	COUPLER, AIC LINK, SLC500 (OPTIONAL)	N/A
75	1	6056-147	MODULE, INPUT ANALOG, SLC500	N/A
74	3	6056-129	FILLER, SLOT, SLC500	N/A
73	1	6056-137	MODULE, 16 OUTPUT RELAY, SLC500	N/A
72	1	6056-119	MODULE, 16 INPUT DC, SLC500	N/A
71	1	6056-176	PROCESSOR, SLC5/03	N/A
70	1	6056-138	POWER SUPPLY, 2 AMP, SLC500	N/A
69	1	6056-103	RACK, 7 SLOT EXPANSION, SLC500	N/A
68	25	6053-100	TERMINAL BLOCK, CONTACT, #24-12, DIN MOUNTED	N/A
67	10	6053-010	TERMINAL BLOCK, #22-12, DIN MOUNTED	N/A
66	2	6053-015	TERMINAL BLOCK, GROUND, #22-12, DIN MOUNTED	N/A
65	2	6053-033	SEPERATOR PLATE, DIN MOUNTED	N/A
64	8	6053-038	END ANCHOR, DIN MOUNTED	N/A
63	880mm	6053-001	RAIL, DIN MOUNTED 35W x 7.5H	N/A
62	48IN	6055-152	DUCT, WIRE 1 1/2" x 2" WITH COVER	N/A
61	2	6306-030	RELAY, SPDT 24 VAC	N/A
60	1	6053-060	D CONNECTOR, MEMLOG TEST PORT	N/A
59	1	6062-002	REGULATOR, VOLTAGE 24 VAC	N/A
58	1	6058-231	OVERLOAD, IEC 12-32 AMP	N/A
57	1	6058-026	CONTACTOR, IEC 37 AMP 24 VAC	N/A
56	2	6059-119	FUSE, FNQ 4 AMP	N/A
55	2	6059-121	FUSE, FNQ-R 5 AMP	N/A
54	1	6061-133	TRANSFORMER, 240/480-120 VAC 275 VA	N/A
53	1	6059-007	FUSE, FNQ 15 AMP	N/A
52	2	6059-115	FUSE, FNQ-R 3.45 AMP	N/A
51	1	6061-025	TRANSFORMER, 240/480-24 VAC 150 VA	N/A
50	1	6059-540	CIRCUIT BREAKER, 40 AMP	N/A
ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION	MATERIAL

BILL OF MATERIALS

ES:
…STED ARE THE APPROXIMATE LENGTHS OF ITEM #25
a. 375MM
b. 375MM
c. 130MM
2. AIC MODULE IS OPTIONAL. NOTE THE DOTTED LOCATION.

TOLERANCES
Linear : +,- 1.5mm (1/16")
Angular: +,- 1.0 DEG.
UNLESS NOTED OTHERWISE

STD: 2-0799-22x34D

INTERNAL REF NO:

BAR = 1" AT PLOT SCALE

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	ITEM 57 WAS VDC, NOW VAC	12 MAY 2000	RH	FLN	ADG	02389/02429
B	NO CHANGES TO THIS SHEET	24 MAR 2000	K.W.	F.L.N	J.H.	02124
A	CONSTRUCTION ISSUE	28 JAN 2000	RH	FLN	ADG	---
0	PRELIMINARY ISSUE	26 JAN 2000	RCH	---	---	----

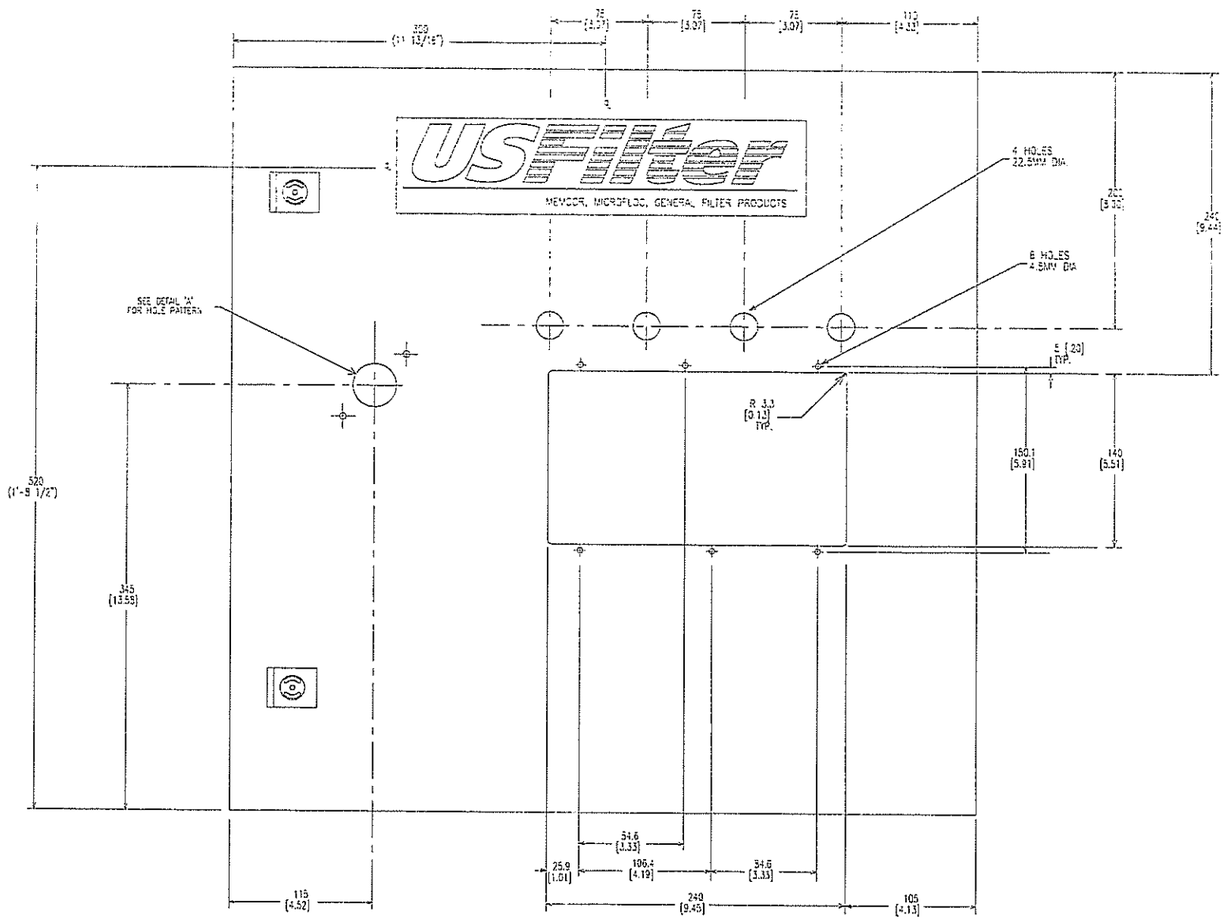
DESIGNER: R.HILL — DATE: 26 JAN 2000
CHECKER: J SMITH — DATE: 26 JAN 2000
ENGINEER: S MILVAN — DATE: 26 JAN 2000
MANAGER — DATE
FILE: 6057-553-2
SCALE: 2

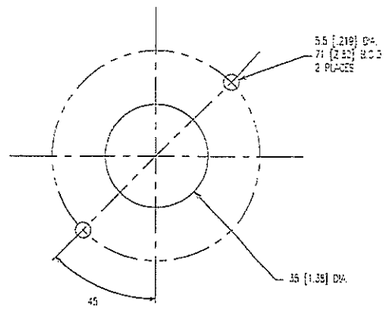
TITLE: ELECTRICAL PANEL LAYOUT
6M10C CMF UNITS
230VAC 1Ø 60Hz

CLIENT

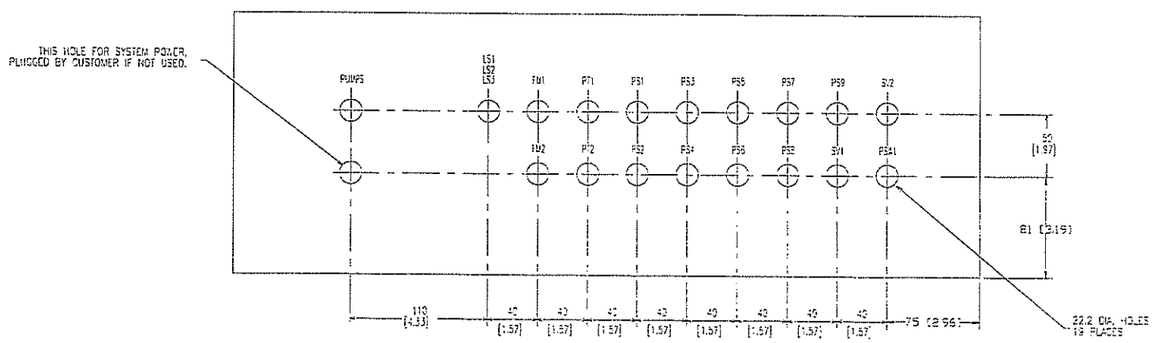
USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT | CODE | DRAWING | SHEET | REV





DETAIL 'A'
FULL SCALE



TOLERANCES
Linear: +/- 1.0mm (1/16")
Angular: +/- 1.0 DEG.
UNLESS NOTED OTHERWISE

REV	DESCRIPTION	DATE	DWN	CHKD	ENGR	ECN
C	CHANGED DIM FROM 205mm TO 200mm	12 MAY 2000	RCH	F.L.N.	JDG	02388
B	REVISED ENCLOSURE TO INCLUDE GLAND PLATE HOLES IN SIDE OF BOX	24 MAR 2000	K.L.L.	F.L.N.	J.H.	02124
A	CONSTRUCTION ISSUE	28 JAN 2000	RH	F.L.N.	JDG	---
0	PRELIMINARY ISSUE	26 JAN 2000	RCH	---	---	---

COMPANY CONFIDENTIAL
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DESIGNER	DATE
RHILL	26 JAN 2000
CHECKER	DATE
J. SMITH	26 JAN 2000
ENGINEER	DATE
S. MILMAN	26 JAN 2000
MANAGER	DATE
FILE:	6057-663-3
SCALE:	2.5

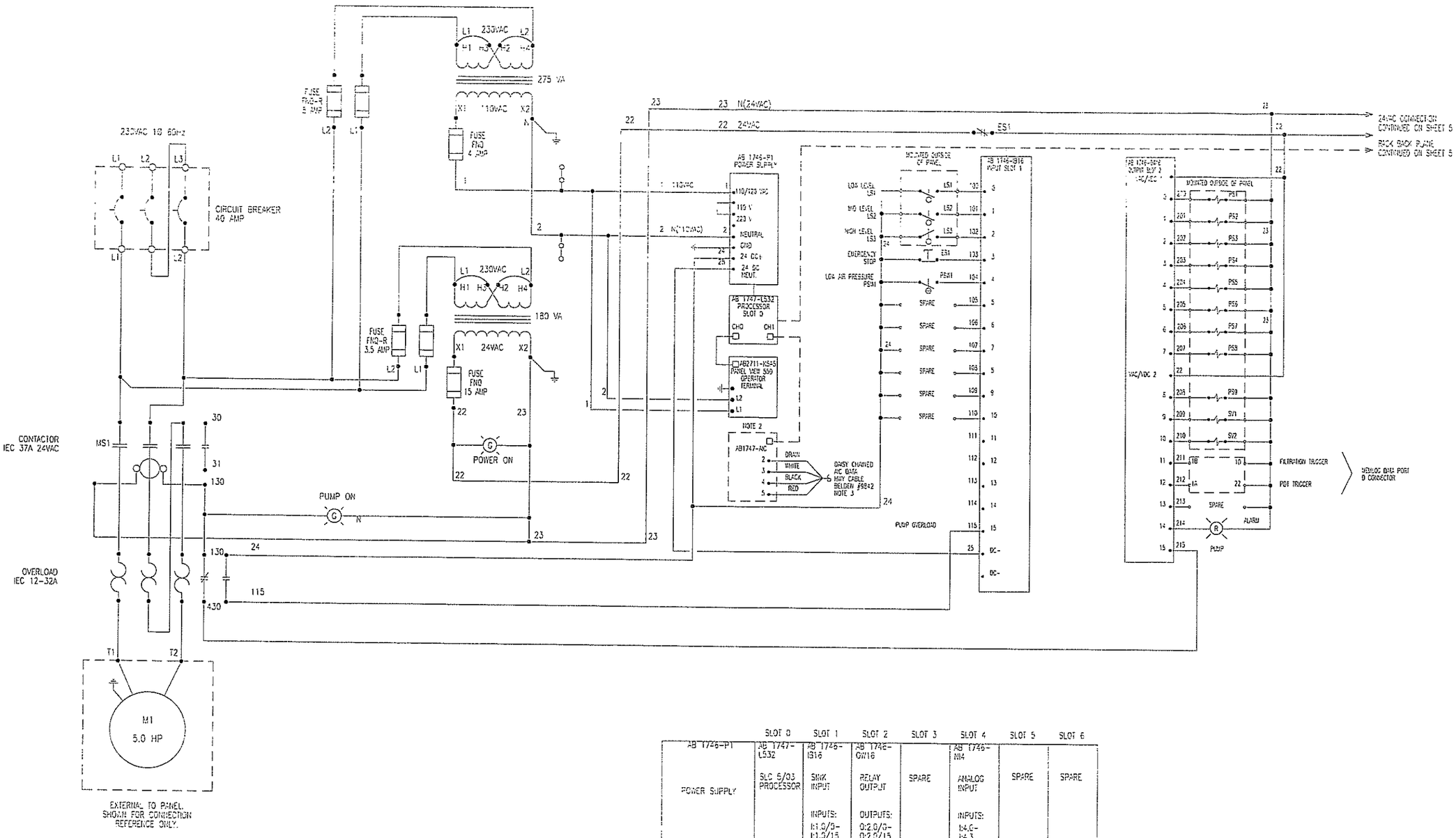
TITLE: ELECTRICAL PANEL LAYOUT
6M10C CMF UNITS
230VAC 1Ø 60Hz

CLIENT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
		6057-663	3 OF 5	C

STD: Z-0799--22x34D | INTERNAL REF NO. | BAR = 1" AT PLOT SCALE



	SLOT 0	SLOT 1	SLOT 2	SLOT 3	SLOT 4	SLOT 5	SLOT 6
AB 1726-P1 POWER SUPPLY	AB 1747-L532 SLC 5/03 PROCESSOR	AB 1746-IB16 SINK INPUT INPUTS: I:1.0/0-I:1.0/15	AB 1746-OW16 RELAY OUTPUT OUTPUTS: O:2.0/0-O:2.0/15	SPARE	AB 1746-IN4 ANALOG INPUT INPUTS: I:4.0-I:4.3	SPARE	SPARE

PLC CONFIGURATION TABLE
ALLEN BRADLEY SLC5/03
7 SLOT RACK AB 1746-A7

NOTES:
1. OPTIONAL A-C ISOLATED LINK COUPLER IS INSTALLED ONLY IN MULTIPLE CMF INSTALLATIONS WHERE COMMUNICATION BETWEEN CMF UNITS IS REQUIRED.

2. DH485 DATA HIGHWAY CABLE IS INSTALLED BY THE CONTRACTOR.

WIRE COLORS:

GROUND	- GREEN, GN/YE
24 VAC	- VIOLET
110 VAC	- BLACK
230/460 VAC	- BLACK
3PH NEUTRAL 24 VAC	- GRAY
3PH NEUTRAL 110 VAC	- WHITE
24 VAC PLC OUTPUTS	- ORANGE
24 VDC INPUTS	- RED
24 VDC (POSITIVE)	- RED
24 VDC (NEGATIVE)	- D BLUE

REV	DESCRIPTION	DATE	DWN	CHKD	APVD
C	CHANGED "IEC 37A 24VDC" TO "IEC 37A 24VAC"	12 MAR 2003	RCH	FLN	WDG
B	NO CHANGES TO THIS SHEET	24 MAR 2003	KM	F.L.N.	J.H.
A	CONSTRUCTION ISSUE	28 JAN 2003	RH	FLN	WDG
0	PRELIMINARY ISSUE	26 JAN 2003	RCH	---	---

02388
02124

DESIGNER	RHILL
DATE	26 JAN 2003
CHECKER	J. SMITH
DATE	26 JAN 2003
ENGINEER	S. MILVAIN
DATE	26 JAN 2003
MANAGER	
DATE	
FILE:	6C57-563-4
SCALE:	NONE

TITLE: ELECTRICAL PANEL LAYOUT
6M10C CMF UNITS
230VAC 1Ø 60Hz

CLIENT

USFilter
211B GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
		6C57-563-4	4 OF 5	C

STD: 2-0799-27x34D
INTERNAL REF NO.
BAR = 1" AT PLOT SCALE

MEMLOG DATA COLLECTION PORT

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
1	1	2	2	100	101	102	105	106	107	108	109	110	200	201	202	203	204	205	206	207	208	209	210	213	400	403	406	409	50	50	51	51	51	51	GND	GND
				24	24	24	24	24	24	24	24	24	23	23	23	23	23	23	23	23	23	23	23	23	50	50	50	50								
																									GND	GND	GND	GND								

TERMINAL STRIP DESIGNATION

WIRE COLORS:

GROUND	- GREEN, GN/YE
24 VAC	- VIOLET
110 VAC	- BLACK
230/460 VAC	- BLACK
GRN NEUTRAL 24 VAC	- GRAY
GRN NEUTRAL 110 VAC	- WHITE
24 VAC PLC OUTPUTS	- ORANGE
24 VDC INPUTS	- RED
24 VDC (POSITIVE)	- RED
24 VDC (NEGATIVE)	- D BLUE

INTERNAL REF NO.

BAR = 1" AT PLOT SCALE

REV	DESCRIPTION	DATE	DRN	CHKD	APVD	ECN
C	NO CHANGES TO THIS SHEET	10 MAY 2000	RCH	FLN	ADG	C2388
B	NO CHANGES TO THIS SHEET	24 MAR 2000	K.J.	F.L.N.	J.H.	C2124
A	CONSTRUCTION ISSUE	28 JAN 2000	RH	FLN	ADG	---
0	PRELIMINARY ISSUE	28 JAN 2000	RCH	---	---	----

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DESIGNER: RHILL	DATE: 28 JAN 2000
CHECKER: J SMITH	DATE: 28 JAN 2000
ENGINEER: S MILVAIN	DATE: 28 JAN 2000
MANAGER:	DATE:
FILE: 6057-563-5	
SCALE: NONE	

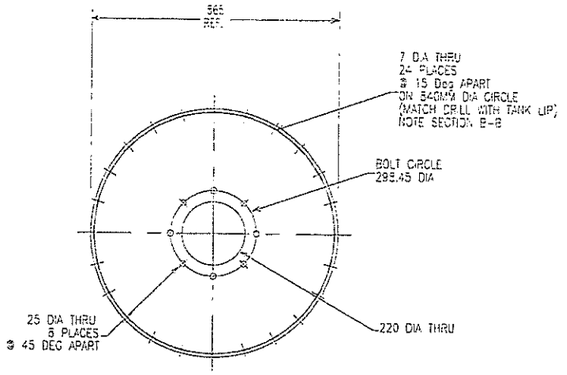
TITLE
ELECTRICAL PANEL LAYOUT
6M10C CMF UNITS
230VAC 1Ø 60Hz

CLIENT

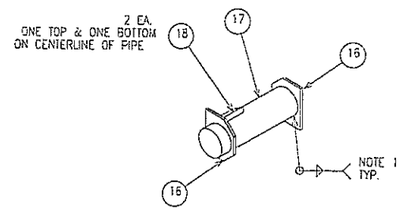
USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
		6057-563	5 OF 5	C

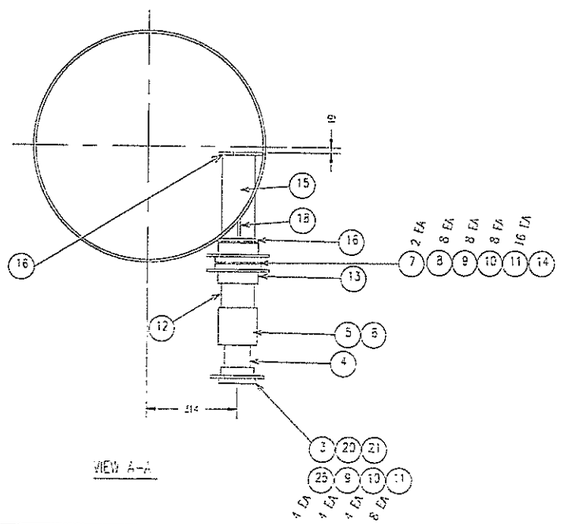
STD: 2-0799-22x34D



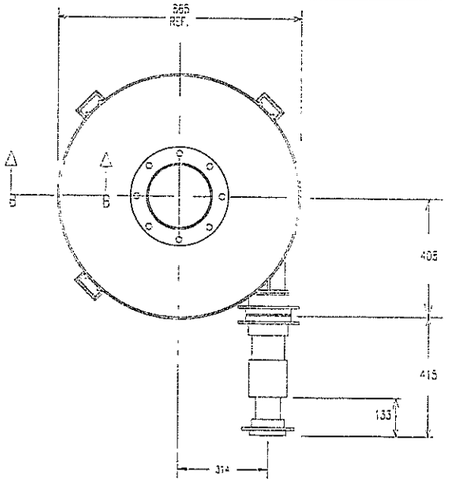
DETAIL 19
VIEW FROM UNDER



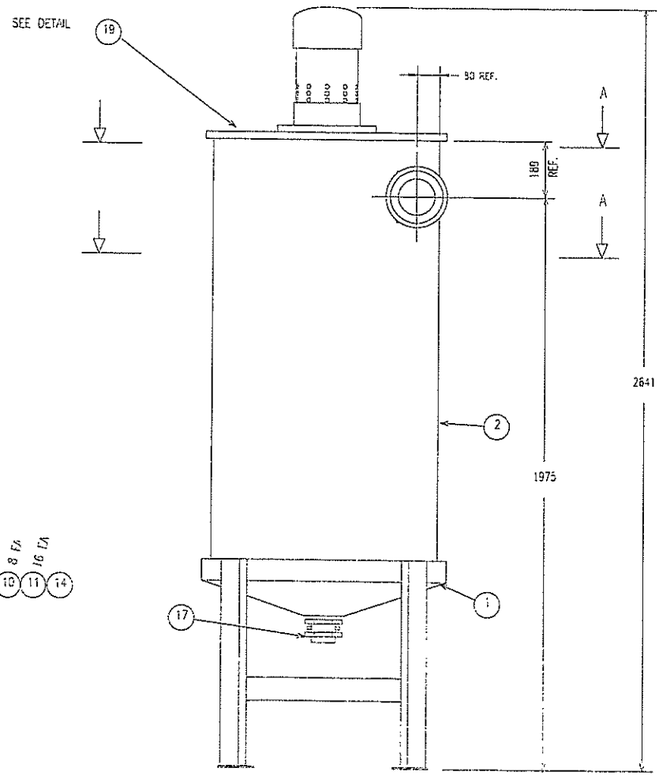
DETAIL OF TANK INLET SUPPORT



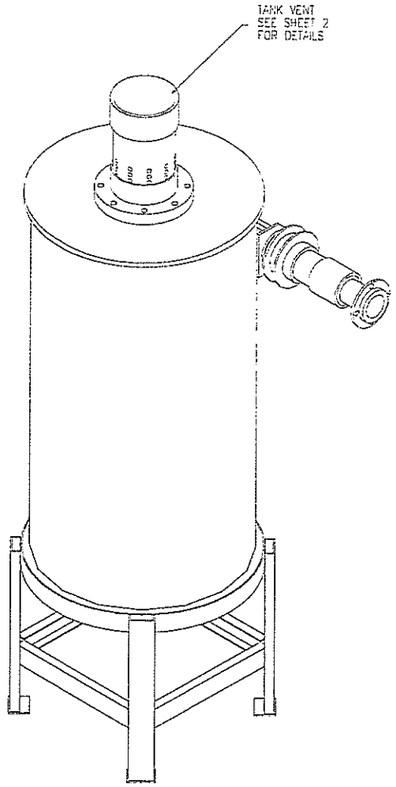
VIEW A-A

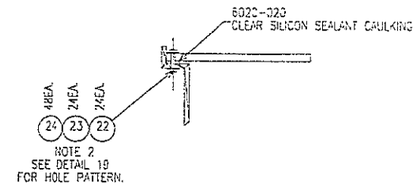


PLAN VIEW

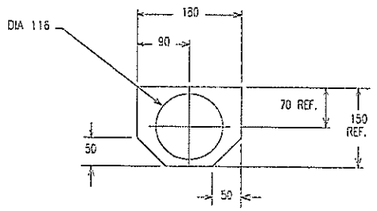


FRONT VIEW

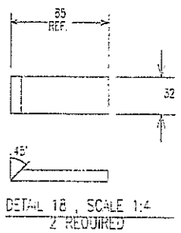




SECTION B-B
SCALE 1:5



DETAIL 16 , SCALE 1:5
2 REQUIRED



DETAIL 18 , SCALE 1:4
2 REQUIRED

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION	MATERIAL
25	4	6400-218	BOLT, HEX HEAD M16 X 90 MM	SS
24	48	6402-106	WASHER, FLAT 6MM	304SS
23	24	6401-206	NUT, NYLOC, M6	SS
22	24	6400-607	BOLT, HEX HEAD 6MM X 35MM	304SS
21	1	6030-133	GASKET, 3 IN 150# PATTERN X 1/8 IN THICK	NEOPRENE
20	1	6030-430	BACKING RING, 3 IN	GALV-STL
19	8 SQ FT	10731-104	SHEET, 1/2 IN SEE DETAIL	POLYETH.
18	2	10731-104	SHEET, 1/2 IN SEE DETAIL	POLYETH.
17	1	6029-020	BULKHEAD , 2IN S X T	CPVC
16	2	10731-104	SHEET, 1/2 IN SEE DETAIL	POLYETH.
15	1	6030-540	FLANGE , 4IN STUB WITH 30IN LONG PE PIPE	POLYETH
14	1	6030-140	GASKET, 4 IN 150# PATTERN X 1/8 IN THICK	NEOPRENE
13	1	6030-340	FLANGE, STUB 4 IN	ABS
12	9 IN	6010-240	PIPE, ABS 4 IN	ABS
11	24	6402-116	WASHER, FLAT 16MM	304SS
10	12	6402-216	WASHER, LOCK 16MM	304SS
9	8	6401-116	NUT, HEX 16MM	304SS
8	8	6400-220	BOLT, HEX HEAD 16MM X 120MM	304SS
7	2	6030-440	BACKING RING, 4 IN	GALV-STL
6	1	6125-430	REDUCER BUSHING, 4 IN X 3 IN SOCKET X SOCKET	ABS
5	1	6016-240	COUPLING, 4 IN @ 230 PSI	ABS
4	9 IN	6010-230	PIPE, 3 IN 230 PSI	ABS
3	1	6030-333	FLANGE, STUB 3 IN	ABS
2	1	6150-135	TANK, 200 GALLON	HDPE
1	1	6513-169	FRAME, BACKWASH TANK, 65"*D	STEEL

BILL OF MATERIALS

NOTES:

1. WELD PIPE AND GUSSETS TO TANK WITH 3/8IN FILLET WELD. USING 6206-100 POLYETHYLENE WELDING ROD
2. MATCH DO #19 WITH TANK TO DRILL THROUGH HOLES.

REV	DESCRIPTION	DATE	DSN	CHKR	APVR	ECN
2	ADD DIM'S	04/14/2020	KRF	FLK	JH	
1	CHANGE TITLE BLOCK	10-10-1999	KRF	SM	GJP	
0	GENERAL REVISIONS TO SUIT MANIFACTURING	05-09-1997	ADN	SM	GJP	

DESIGNER ADE	DATE 05-09-1995
CHECKER R REED	DATE 05-09-1995
ENGINEER	DATE
DRAFTER G GRADE	DATE 05-09-1995
MANAGER	DATE
FILE: 6150-301	
SCALE: NONE	

TITLE: BACKWASH TANK ASSEMBLY
SMALL RANGE CMF SYSTEM

CLIENT

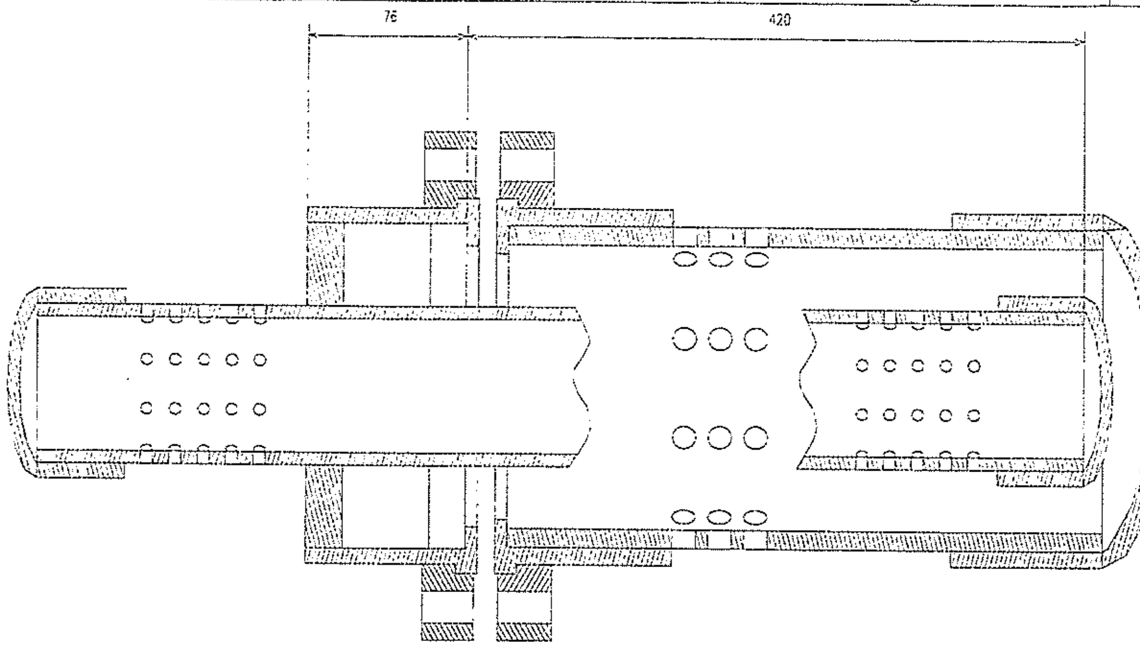
USFilter
211B GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-WEWORK

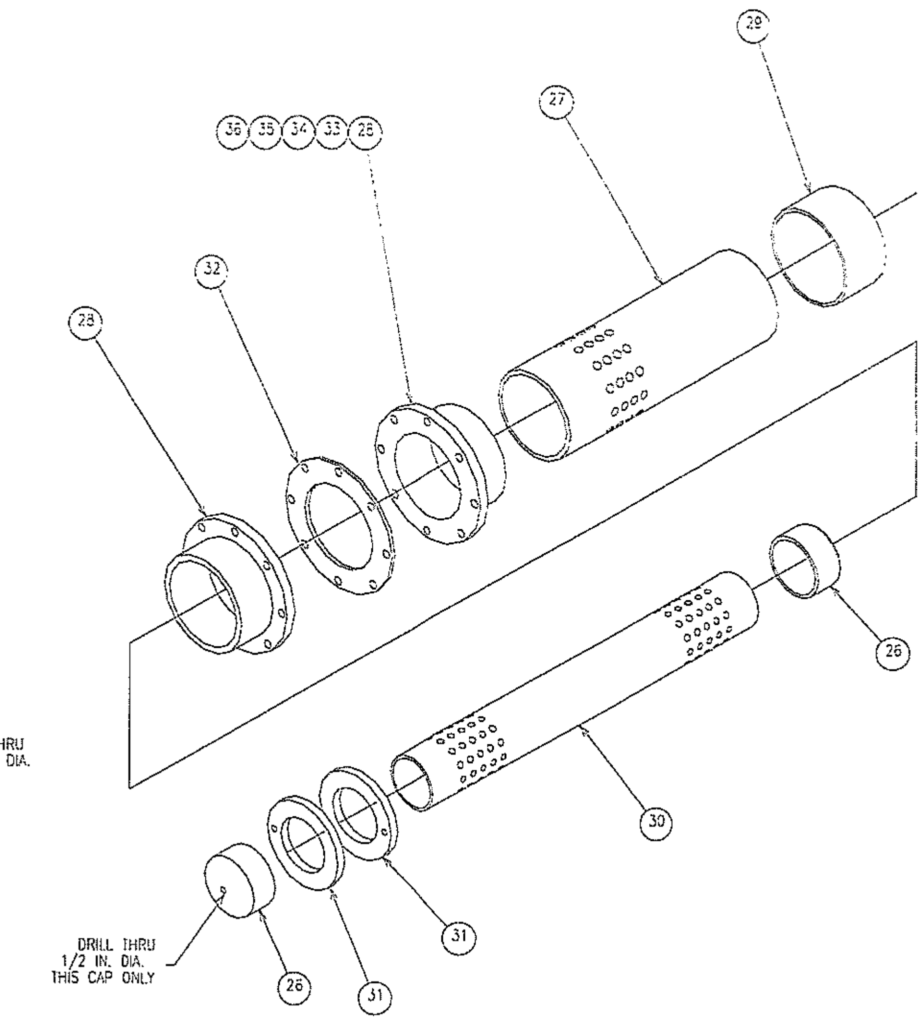
PROJECT	CODE	DRAWING	SHEET	REV
		6150-301	1 OF 2	A

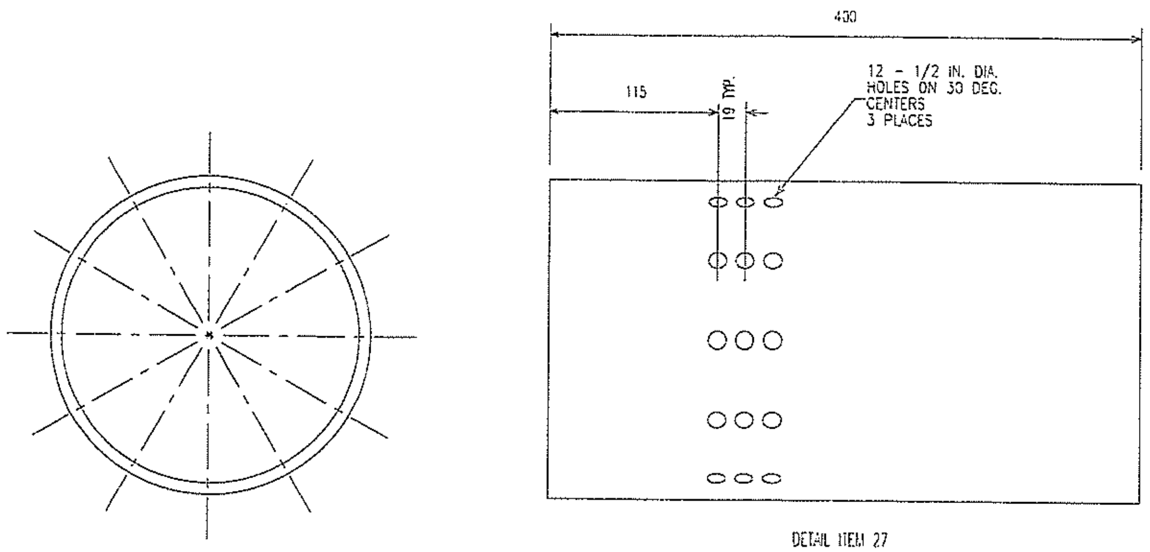
STD: Z-0799-22x34D

INTERNAL REF NO

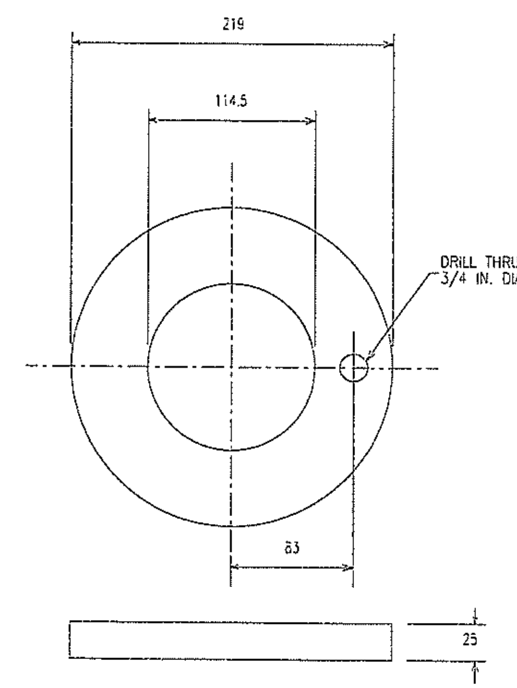
BAR = 1" AT PLOT SCALE



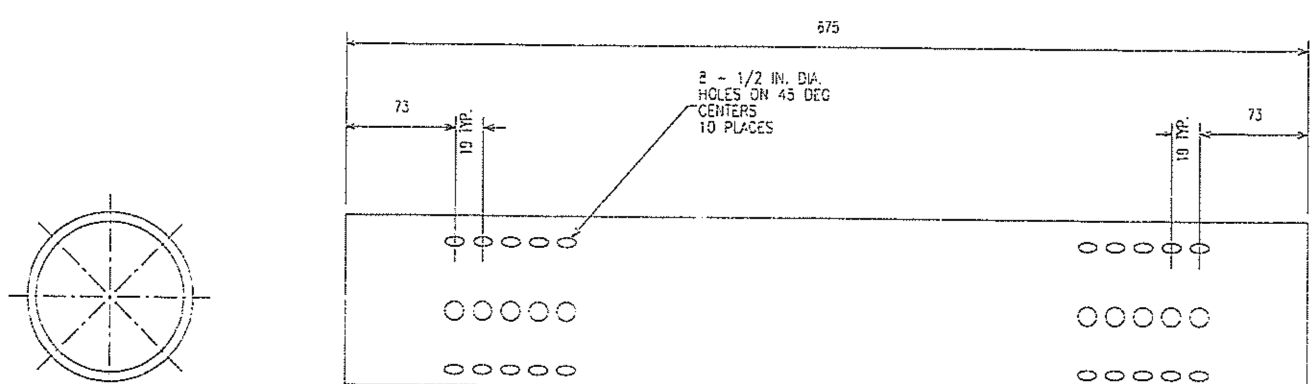




DETAIL ITEM 27



DETAIL ITEM 31



DETAIL ITEM 30

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION	MATERIAL
36	5	6402-220	WASHER, SPLIT LOCK 20 MM	SS
35	16	6402-120	WASHER, FLAT 20MM	SS
34	8	6401-120	NUT, HEX 20 MM	SS
33	8	6400-726	BOLT, HEX HEAD, M20 X 130 MM	SS
32	1	6030-181	GASKET, FLANGE 8 IN	NEOPRENE
31	2	10731-105	PLATE, 1 IN	PVC
30	675 mm	6010-340	PIPE, 4 IN SCHED. 40	PVC
29	1	6015-380	CAP, 8 IN SCHED. 40	PVC
28	2	6030-280	FLANGE, 8 IN	PVC
27	400mm	6010-380	PIPE, 8 IN SCHED. 40	PVC
26	2	6015-340	CAP, 4 IN SCHED. 40	PVC

BILL OF MATERIALS

TITLE BACKWASH TANK ASSEMBLY
SMALL RANGE CMF SYSTEM
VENT DETAIL

CLIENT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
		6150-301	2 OF 3	

DESIGNER	DATE
ADE	05-05-1993
CHECKER	DATE
R.REED	05-28-1993
ENGINEER	DATE
G.PAGE	05-28-1993
MANAGER	DATE
FILE: 6150-301-2	
SCALE: NONE	

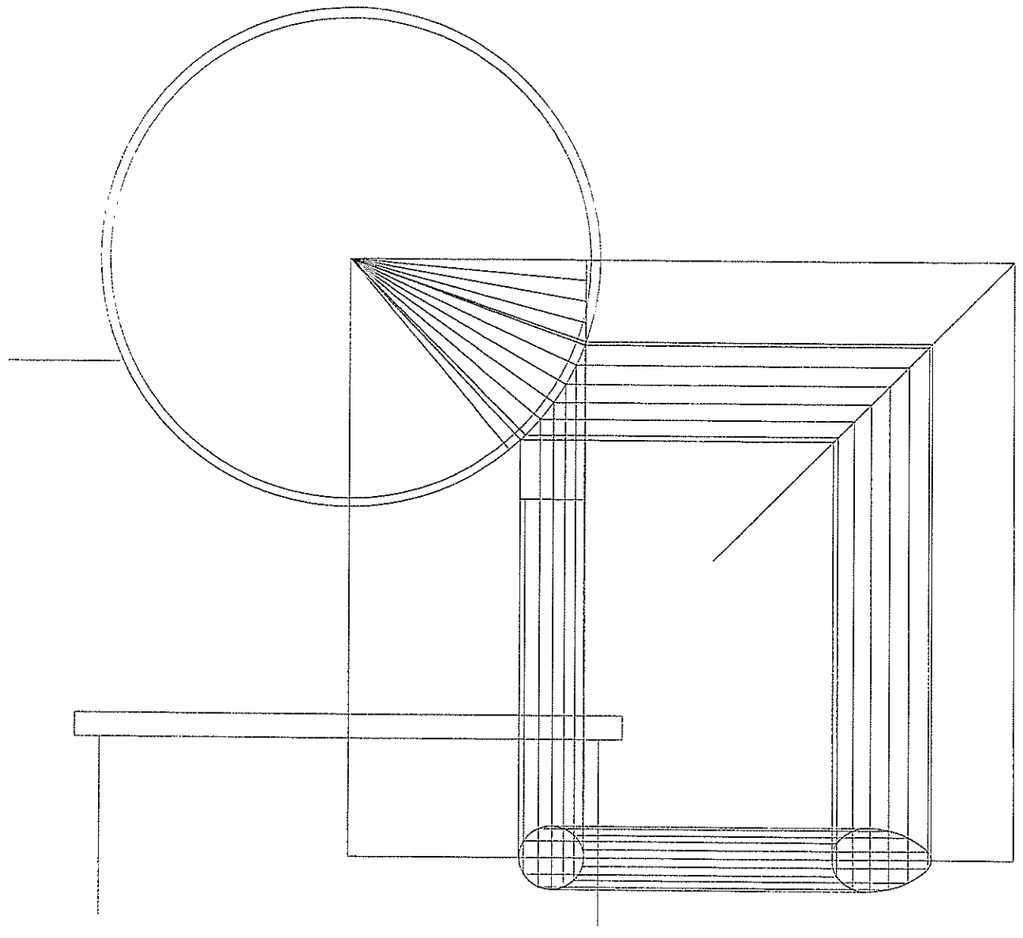
REV	DESCRIPTION	DATE	DRN	CHKD	APVD	ECN
J	ADD DIM'S	04/14/2000	KRF	FLN	LH	---
H	CHANGE TITLE BLOCK	10-10-1999	KRF	SM	GJP	
G	GENERAL REVISIONS TO SUIT MANUFACTURING	09-09-1997	ADN	SM	GJP	

TOLERANCES
Linear : +,- 0.5 < 1000
+,- 1.0 > 1000
Angular, +,- 0.5 DEG.
UNLESS NOTED OTHERWISE

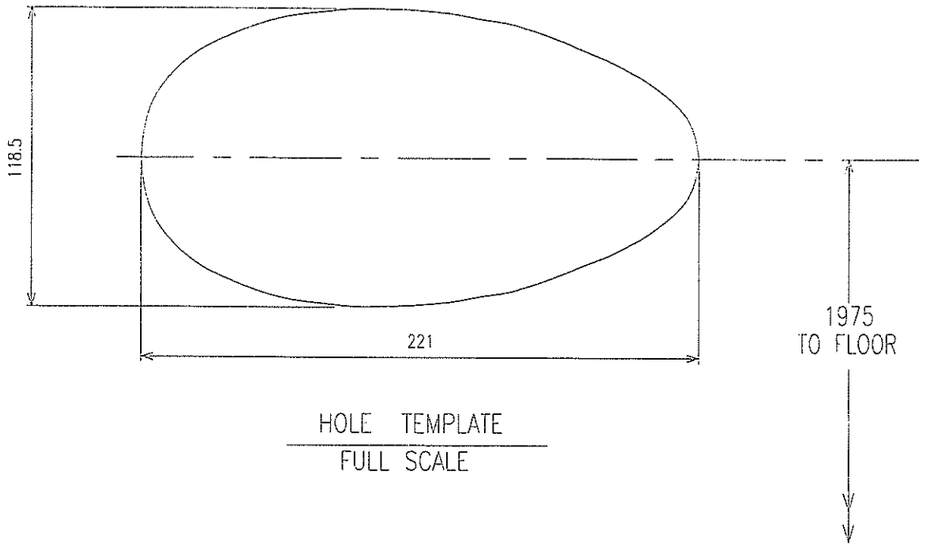
BAR = 1" AT PLOT SCALE

STD. 2-2798-22x34D

INTERNAL REF NO:



NOTE: CHECK TEMPLATE DIMENSIONS BEFORE CONSTRUCTING.



HOLE TEMPLATE
FULL SCALE

REV	DESCRIPTION	DATE	DRN	CHKD	APP'D	ECN
J	ADD DIV'S	04/14/2003	KRF	FLEN	JH	----
H	CHANGE TITLE BLOCK	10-10-1998	KRF	SM	GMP	
G	GENERAL REVISIONS TO SUIT MANUFACTURING	09-09-1997	ADW	SM	GMP	

DESIGNER	DATE
ABE	08-28-1998
CHECKER	DATE
R.REED	08-28-1998
ENGINEER	DATE
G.PAGE	08-28-1998
MANAGER	DATE
FILE: 6150-301	
SCALE: NONE	

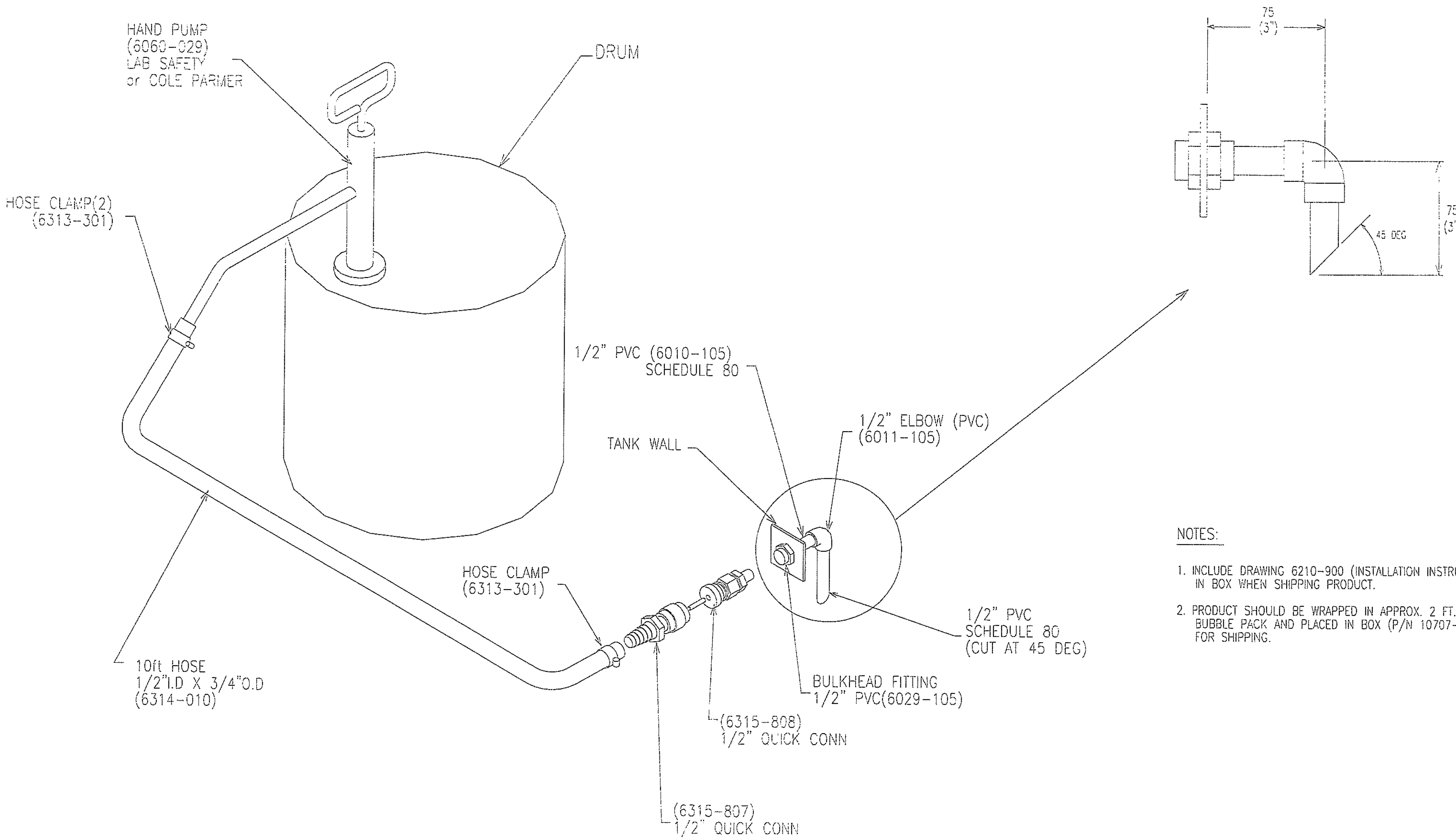
TITLE: BACKLASH TANK ASSEMBLY
SMALL RANGE CMF SYSTEM
TANK CUTOUT DETAIL

CLIENT:

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
		6150-301	3 OF 5	J

STD. 2-0760-22x34D | INTERNAL REF. NO. | BAR = 1" AT PLOT SCALE



NOTES:

1. INCLUDE DRAWING 6210-900 (INSTALLATION INSTRUCTION) IN BOX WHEN SHIPPING PRODUCT.
2. PRODUCT SHOULD BE WRAPPED IN APPROX. 2 FT. OF BUBBLE PACK AND PLACED IN BOX (P/N 10707-345) FOR SHIPPING.

REV	DESCRIPTION	DATE	DRN	CHKD	APVD	ECN
D	CHANGE TITLE BLOCK		KRF	SM	GJP	
C	ADDED 6210-900 (INSTALLATION INSTRUCTION) TO PACKAGE		ADE	SM	JCH	

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DESIGNER: ADE
CHECKER: R REED
ENGINEER: G PAGE
MANAGER:
FILE: 691508-030
SCALE: NONE

TITLE: CIP TRANSFER SYSTEM SMALL RANGE CMF

CLIENT:

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-NEWCORP

DRAWING: 691508-030 SHEET 1 OF 1 REV D

STD: 2-0799-22x340 | INTERNAL REF NO: | BAR = 1" AT PLOT SCALE

PSWD water useage and charges

Projected 20-year totals

20-Year projected gallons sold =
20-Year projected gallons sold =
20-Year projected gallons sold per day =
Projected ERTs =
20-Year projected charges at an est. 5% increase per year =

Projected totals 2024

Projected gallons sold for 2024 =
Projected gallons sold per month 2024 =
Projected gallons sold per day 2024 =
Projected ERTs for 2024 =
Projected charges for 2024 at an est. 5% increase =

Projected totals 2023

Projected gallons sold for 2023 =
Projected gallons sold per month 2023 =
Projected gallons sold per day 2023 =
Projected ERTs for 2023 =
Projected charges for 2023 =

Average totals 2022 & 2023

Average gallons sold per month 2022 & 2023 =
Average gallons sold per day 2022 & 2023 =

Charges billed for 2022 =
Est .Charges billed for 2023 =

2023	Gallons sold per month	Gallons sold per day
Jan	619,400	20,647
Feb	573,800	17,931
Mar	480,800	17,171
Apr	534,200	17,232
May	557,800	18,593
Jun	573,100	18,487
Jul	570,600	19,020
Aug	604,900	19,513
Sep	644,800	20,800
Oct	549,800	18,959

total 10 mos. 2023	5,709,200	188,353
Nov	570,920	18,835
Dec	570,920	18,835
total 12 mos. 2023	6,851,040	226,023
average monthly use	570,920	18,835

2022	Gallons sold per month	Gallons sold per day
Jan	583,800	18,832
Feb	653,100	21,067
Mar	505,900	21,067
Apr	505,900	21,067
May	633,300	21,110
Jun	615,600	18,655
Jul	615,600	18,655
Aug	637,900	20,577
Sep	590,100	19,035
Oct	605,800	20,193
Nov	594,505	19,178
Dec	594,505	19,178
total 12 mos. 2022	7,136,010	238,614
average monthly use	594,668	19,884

total annual useage	6,851,040	-192,000
commercial	-264,000	-72,000
residential	6,587,040	-264,000

0.860558267	Average daily flow per ERT
0.960558267	Maximum daily flow per ERT

0.860558267	1.060558267
0.960558267	1.160558267

	7,692,878
	588,620
	19,554
	305
$	912,139.20

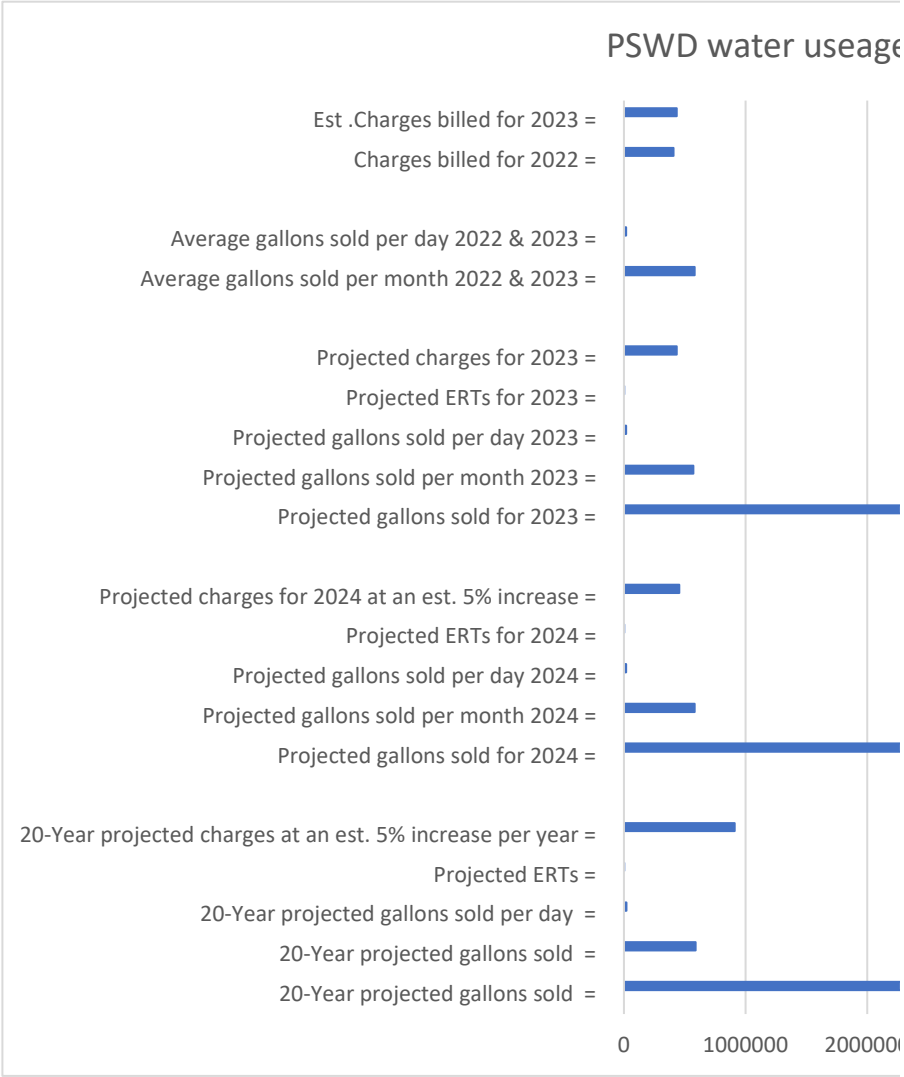
	6,993,525
	582,792
	19,360
	302
$	456,069.60

	6,874,775
	570,920
	18,835
	302
$	434,352.00

	582,792
	19,360

$	406,647.06
$	434,352.00

Total charges per month	
$	36,715.57
$	36,016.38
$	35,183.48
$	35,336.91
$	35,948.64
$	37,234.01
$	36,705.16
$	36,367.42
$	39,244.06
$	33,208.17



$ 361,959.80

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$ 31,923.49
$ 36,570.98
$ 30,954.83
$ 34,204.83
$ 34,939.62
$ 34,129.33
$ 36,291.37
$ 32,019.41
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commercial CO Cherry co.
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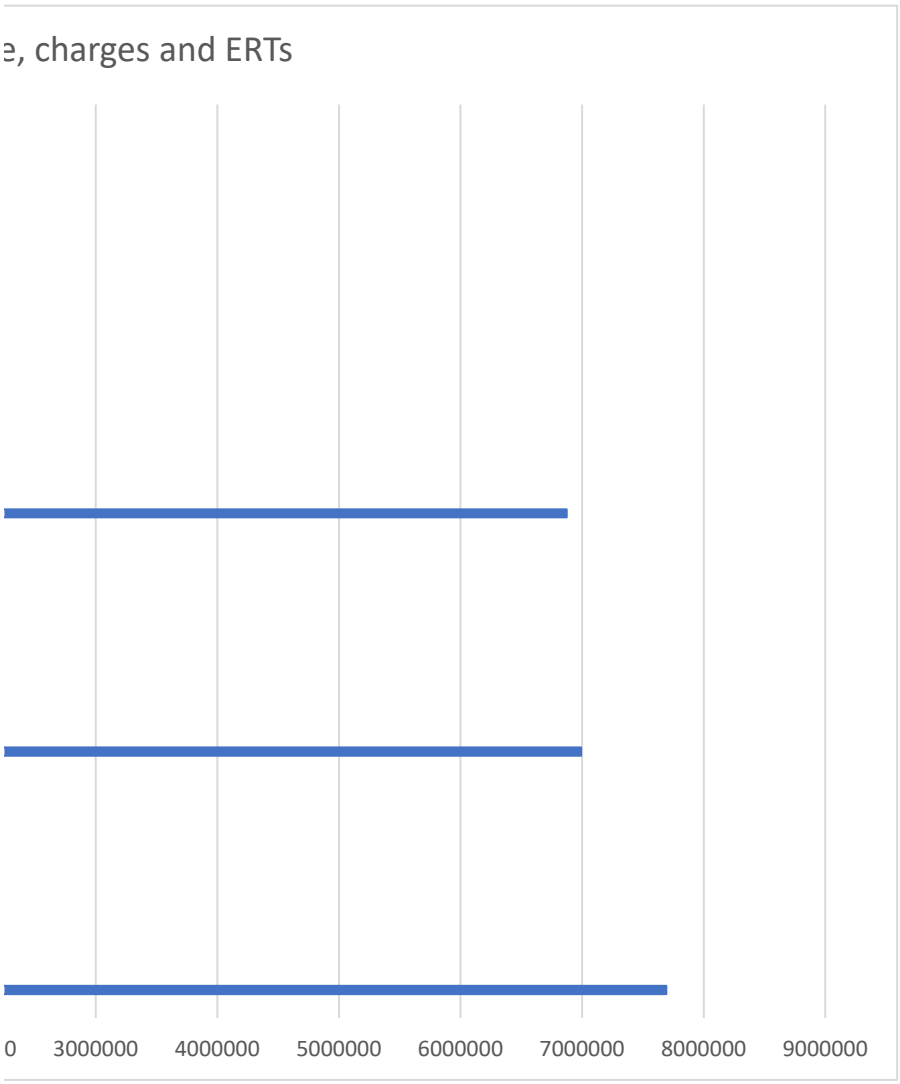
20 year Average daily flow per ERT
20 year Maximim daily flow per ERT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PINEWOOD SPRINGS WATER RULES AND REGULATIONS

Originally Adopted	January 22, 1979
Revised 03/23/81	Various Items
Revised 11/09/81	Section 7.3.1
Revised 04/26/82	Sections 2.4, 3.6 and Appendix A
Revised 12/22/83	Various Items
Revised 05/22/88	Various Items
Revised 06/14/90	Section 3.3 and Appendix A & C
Revised 08/22/90	Section 7.11 and Appendix A (14) and 3.a.
Revised 12/08/93	Appendix A Section 6 A-F, 7 A-C
Revised 01/01/95	Appendix A
Revised 06/23/99	Sections 1.3, 2.1, 2.2, 2.3, 2.4, 3.1, 3.3, 3.6, 3.7, 3.8, 4.1, 4.2, 4.3, 4.4, 4.6, 4.7, 5.1, 5.7, 5.9-5.12, 5.14, 6.3, 6.5, 6.7, 6.9, 7.3.5, 7.5, 7.6, 7.8, 7.9, 7.11, Appendix A (1-3, 5-8, 13, 14), Appendix B, and Appendix C
Revised 11/29/00	Appendix A, Section 6
Revised 07/25/01	Sections .3.6, 7.8.1& appendix A(Sections 5 & 6 (B,C)
Revised 11/28/01 (eff. 01/01/02)	Appendix A, Section 6 A
Revised 3/27/02	Appendix A, Section 5
Revised 5/28/03	Section7,7.5, Appendix A, Sections 1,5,6A,8
Revised 1/28/04	Appendix A, Section 5, 6A & 6B
Revised 2/25/04	Appendix A, Section 5, 6A
Revised 9/26/05	Appendix A, Sections 6B, 9
Revised 2/22/10	Section 7.3.6 & Appendix A, 3E, 9
Revised 11/18/10	Sec 7, 7.8.2,7.9 & Appendix A, 6A & 6B
Revised 12/9/11	Appendix A, Section 6A & Section 7.9
Revised 01/23/13	Appendix A, Section 6A & 6B
Revised 01/30/14	Appendix A, Section 6A
Revised 01/30/15	Appendix A, Section 6A & 6B
Revised 9/30/2015	Appendix A, Section 3F, 6C4, & 9
Revised 12/10/2015	Appendix A, Section 6A & 6B
Revised 12/13/2016	Appendix A, Section 6A & 6B
Revised 12/31/2017	Appendix A, Section 6A & 6B
Revised 12/13/2018	Appendix A, Section 6A & 6B
Revised 12/13/2019	Appendix A, Section 6A & 6B
Revised 12/13/2020	Appendix A, Section 6A & 6B
Revised 12/13/2021	Appendix A, Section 6A & 6B
Revised 12/15/2022	Appendix A, Section 6A & 6B
Revised 6/28/2023	Sections 1.3;2.1;2.3.1;3.3.4;7.3.6

NOTE: THESE RULES AND REGULATIONS ARE SUBJECT TO REVISION BY THE BOARD OF DIRECTORS OF THE DISTRICT WITHOUT PRIOR NOTICE.

PINEWOOD SPRINGS WATER

DISTRICT RULES AND REGULATIONS

TABLE OF CONTENTS

PINEWOOD SPRINGS WATER DISTRICT

RULES AND REGULATIONS

SECTION 1. General Explanatory Material

1.1 Scope. This regulation shall be treated and considered as a new and comprehensive regulation, governing the operations and functions of the Pinewood Springs Water District, and shall supersede any previous regulations of the District, as contained in the minutes of the District, which are in conflict with the provisions hereof.

1.2 Policy and Purpose. It is hereby declared that the Rules and Regulations hereinafter set forth will serve a public use and are necessary to insure and protect the health, safety, prosperity, security and general welfare of the inhabitants of the Pinewood Springs Water District.

1.3 Definitions. Unless the context specifically indicates otherwise, the meaning of terms used herein shall be as follows:

1.3.1 "Actual Cost" shall mean all direct costs applicable to the construction of a given water main, including construction, engineering, inspection, plan approval fees, etc., which have been paid by the constructor.

1.3.2 "Accessory Dwelling Unit" shall mean a secondary house or apartment that shares the building lot of a larger, primary home.

1.3.3 "Board" and "Board of Directors" shall mean the governing body of the Pinewood Springs Water District.

1.3.4 "Connection" shall mean the connecting of the service line to the structure, which it is to serve.

1.3.5 "Constructor" shall mean any person, corporation, partnership, association or firm desiring to construct an extension of or to the district's water distribution system or a connection to the district's system.

1.3.6 "Contractor" shall mean any person, firm, or corporation licensed by the District to perform work and to furnish materials therefore within the District.

1.3.7 "Customer" shall mean any person, company, corporation or governmental authority or agency who is a property owner within the District and is authorized to use water or connect to a water main under a permit issued by the Board of Directors.

1.3.8 "District" shall mean the Pinewood Springs Water District.

1.3.9 "EQR" shall mean Equivalent Residential Unit.

1.3.10 "Inspector" shall mean the person or persons duly authorized by the District to enforce these Rules and Regulations. The Rules and Regulations may also be enforced by the Superintendent.

1.3.11 "Licensed Plumber" or "Pipe Layer" shall mean the person provided a license to work in the District.

1.3.12 "Permit" shall mean written permission of the Board of Directors to connect to a water main of the District pursuant to the Rules and Regulations of the District.

1.3.13 "Person" shall mean any individual, firm, company association, society, corporation or group.

1.3.14 "Service Lateral" shall mean the pipe, line or conduit from the water main to the edge of the highway right-of- way, easement or property line.

1.3.15 "Service Line" shall mean the pipe, line or conduit from the service lateral to an individual house or other structure.

1.3.16 "Shall" is mandatory; "may" is permissive.

1.3.17 “Short-term rental” shall mean a furnished housing unit occupied by a tenant for a period of 30 consecutive days or less where charges are secured.”

1.3.18 "Stub-in" shall mean the connection of the service line to the service lateral.

1.3.19 "Superintendent" shall mean the Superintendent of the District, or in his absence, his duly authorized Deputy.

1.3.20 "User" shall mean any person to whom water service is served, be it renter, record owner, corporation, company, individual, etc.

1.3.21 "Water Main" shall mean any water pipe, line or portion thereof owned by the District.

1.3.22 "Water Tap" shall mean the act of connecting a service line to a service lateral.

1.3.23 ANY OTHER ITEM not herein defined shall be defined as presented in the "Glossary--Water and Sewage Control Engineering" A.P.H.A., A.W.W.A., A.S.C.E., and F.W.S.A., latest editions.

SECTION 2. Ownership and Operation of Facilities

2.1 Policy. Subject to the provisions of Section 4, the District is responsible for the distribution of water for **domestic** in-house use to **residents** within the District and the maintenance, repair and replacement of all mains, hydrants, valves, meters, wells and service facilities owned by the District, but shall not be liable or responsible for inadequate pressure or interruption of service brought about by circumstances beyond its control.

The District is generally responsible for providing water storage and treatment facilities, and shall endeavor to plan for, capitalize and build adequate capital improvements as demand occurs; but the district shall not be liable or responsible for failure to provide additional service when capacity is exceeded by demand.

2.2 Liability. It is expressly stipulated that no claim for damage shall be made against the District by reason of the following: breaking of any service of supply line, pipe, cock or meter by any employee of the District; failure of the water supply; shutting off or turning on water in the water mains; the making of connections or extensions; damage caused by water running or escaping from open or defective faucets; burst service pipes or other facilities not owned by the District; damage to water heaters, boilers or other appliances resulting from shutting water off, or turning water on, or from inadequate or sporadic pressures; or for doing anything to the water system of the District deemed necessary by the Board of Directors or its agents. The District hereby reserves the right to cut off the water supply at any time, for any reason deemed appropriate.

2.2.1 Notwithstanding the above liability provisions, all liability actions concerning the District shall be in conformance with C.R.S. 1973, 24-10-101, et. seq., commonly called the Colorado Governmental Immunity Act.

2.3 Powers and Authority of Inspectors.

2.3.1 The Superintendent, Inspector and other duly authorized employees, agents or representatives of the District shall be permitted to enter upon all properties and drainages for the purpose of inspection, observation, measurement, sampling and testing, in accordance with the provisions of these Rules and Regulations, and shall have authority to shut off service.

2.3.2 The Superintendent shall be authorized to expend not in excess of $500.00 without Board approval; and not in excess of $1000.00 in emergency situations. In each case, the Superintendent will attempt to notify the Board prior to making such expenditures and will fully account for such expenditures.

2.4 Defective Meters. When meters are in service, it shall be the duty of all customers to notify the District office or Superintendent if their water meters are operating defectively.

2.4.1 The District will remove a defective meter and install a replacement meter; however, the District assumes no responsibility for the cost of water as shown by defective meters, or for any cost or expenses relating to or caused by malfunctioning meters.

2.4.2 At the request of the customer, the District will remove a defective meter and install a replacement meter. The District will be responsible for routine repairs. The cost of repair of deliberate damage to the meter will be billed to the customer.

SECTION 3. Use of Public System

3.1 Use Only By Authorized Persons. No person, other than authorized persons including, but not limited to, plumbing contractors performing usual and ordinary services in accordance with recognized customs and standards, shall:

3.1.1 Uncover, or connect any pipes, tubes, stopcock, or any other instrument or contrivance with any main, service pipe, or other medium conducting or supplying water to any building without the knowledge and written consent of the District;

3.1.2 Alter, obstruct or interfere with the action of any meter provided for measuring or registering the quantity of water passing through said meter without the knowledge and written consent of the District.

3.2 Use by Unauthorized Person a Misdemeanor. Any person who, in any manner commits one of the acts described in Section 3.1 without the knowledge and written consent of the District commits a Class 2 Misdemeanor.

3.3 Responsibilities of the Customer. Each customer shall be responsible for installing and maintaining the entire length of his water service line from the meter to the structure. Leaks or breaks in the service line shall be repaired by the customer within a reasonable period from the time of discovery or notification of such condition by the District. If satisfactory progress toward repairing said leak has not been accomplished within the same time period, the Inspector or Superintendent shall shut off service until the leaks or breaks have been repaired.

3.3.1 It shall be the duty of all customers connected to the water system to keep advised of varying pressures and conditions of service so as to properly protect their persons and property from injury by water furnished through the District's facilities.

3.3.2 Employees of the District are expressly forbidden to do any plumbing work whatsoever, except, with a customer's permission, the initial hook-up to the meter. Payment for this work shall be made to the District and shall be subject to the same terms and conditions for payment of service fees as stated in Sections 7.8.2 to 7.10 inclusive. All persons having boilers and/or other appliances on their premises dependent on pressures or water in pipes, or on a continual supply of water, shall provide, at their own expense, suitable safety appliances to protect themselves and their property against a stoppage of water supply or loss of pressure.

3.3.3 The District operates under the requirements of an Augmentation Plan, Case No. W-8001(75), dated 24 Feb. 1976. Water supplied by the District's water system shall be used for domestic, in-house use only. Outside water use is not permitted. Irrigation of lawns, shrubs, trees or gardens and washing of vehicles is not permitted. The District has the right to assess fines or to revoke water service to any customer using District-supplied water for other than domestic, in-house purposes.

3.3.4 Each customer shall be responsible for installation, inspection, testing, and maintenance of any devices required by federal and/or state regulations in order to be safely connected to a municipal water system. Failure to comply

with federal and/or state regulations may result in penalties up to and including revocation of water service.

3.4 Unauthorized Use of Hydrant Wrench or Valve Shut-off Keys Unlawful. It shall be unlawful for any person other than authorized personnel to use a hydrant wrench or valve shut-off key without prior authorization from the Board, and any police officer or personnel of the district or Fire Department are hereby authorized to confiscate any hydrant wrench or valve shut-off key used without such prior authorization.

3.5 Protection from Damage. No unauthorized person shall maliciously, willfully, or negligently, break, damage, destroy, uncover, deface or tamper with any structure, appurtenance or equipment which is part of the water system including fire hydrants.

3.5.1 Any person violating any of the provisions of these Rules and Regulations shall become liable to the Board for any expense, loss or damage occasioned by reason of such violation.

3.6 Water Saver Water Closet. All structures constructed after the effective date of these Rules and Regulations shall be equipped with a "water saver" water closet. A "water saver" water closet is defined as one that uses 1.6 gallons of water or less per flush.

3.7 Meter Installation for New Construction. All structures shall include the installation of a District approved water meter at a location to be determined by the Board or its duly authorized representative.

3.7.1 The property owner will purchase the meter from the District at actual cost to the District. This is necessary for the District to maintain quality control of the meters used.

3.7.2 The property owner, at his/her expense, will contract with the District to construct the meter pit and install the meter and all appurtenances thereto.

3.7.3 Following installation, the meter shall be owned by the District and shall become part of the water service facilities of the District.

3.8 Meter Installations for all Commercial Establishments. All commercial establishments, new or existing, retail or wholesale, shall install a District-approved water meter, at their expense, for the purpose of monitoring the volume of water use. The location of the meter shall be determined by the Board or its duly authorized representative.

3.8.1 All meters for commercial establishments shall be read monthly by the Superintendent and those findings reported to the Treasurer/Administrative Clerk for the purpose of billing the users as set forth in Appendix A.

3.8.2 The Board may, in its discretion, require that all commercial establishments curtail their use of water over and above the allotted amounts for the EQR's held by those commercial establishments during times when the water supply is limited, The Board has determined that continued commercial use in excess of the allotted amounts for commercial establishments creates an unacceptable seasonal demand on the District's facilities.

Water service to any commercial establishment may be revoked by the District upon failure to comply with a request from the Board under this section. In the event of such failure to comply with the Board's request, the commercial establishment

shall be given due notice of a hearing to revoke service. Said hearing shall be held by the District at a regular or special meeting of the Board of Directors, at which time the customer shall have the opportunity to present testimony and evidence to the Board. Following said hearing, the Board's decision shall be final and service to the property may be revoked by disconnecting appropriate lines, either public or private, serving the property, or not, as the Board decides.

3.8.3 In the interest of water conservation, the number of taps a commercial establishment may purchase is three, if available.

3.9 Number of Water Taps Upon Sale of Dwelling. A customer who sells his dwelling or property must transfer the number of EQRs, which have been purchased by the selling customer or allocated to that dwelling or property, if any.

3.9.1 The payment of a tap fee entitles a purchaser to use the District's water service only so long as he remains the owner of the dwelling identified on the Application and Permit for Water Tap and/or Service. (Appendix C)

3.9.2 Following the initial tap by a customer, the number of EQR's purchased or allocated to a customer shall remain and be transferred only with the property identified on the Application and Permit for Water Tap and/or Service. (Appendix C)

3.9.3 Nothing in this Section shall imply that a customer or purchaser of a dwelling and/or property cannot apply for additional EQR's, or that the right of service cannot be revoked in accordance with these Rules and Regulations.

3.9.4 The attempted sale of one or more EQR's, or portion thereof, apart from the dwelling or property without the written approval of the Board of Directors may be grounds for revocation of the customer's right to his allocated EQR's.

SECTION 4. Application for Service

4.1 Inclusions. Water service will be furnished only to persons whose property is included in the District and who have agreed to abide by the Rules, Regulations and Rates promulgated by the District.

4.1.1 It shall be incumbent upon the applicant to furnish satisfactory evidence of inclusion whenever such evidence is requested by the District. Satisfactory evidence shall consist of a tax receipt, or certificate in lieu thereof, issued by and signed by the County Treasurer.

4.2 Application and Permit for Water Tap and Service. An Application and Permit for Water Tap and/or Service must be filed with the District, on the District's standard form, and be accompanied by appropriate fees, prior to action by the Board or its designated representative to affect connection to the District's water system. (Appendix C)

4.2.1 An Application and Permit for Water Tap and/or Service shall expire one (1) year from the original application date if not connected to the water system. Water taps purchased prior to May 26, 1999, shall have no expiration date. It shall be incumbent upon the applicant to furnish satisfactory evidence of any previously paid water tap fees. Satisfactory evidence shall consist of a receipt, letter, canceled check referencing paid tap, or past District records.

4.2.2 When an Application and Permit for Water Tap and/or Service expires, the District shall retain the previously paid tap fees. The previously paid water tap fees shall be credited toward the current water tap fee when a new application for water tap is filed, as described in Section 4.2.1.

4.3 Cancellation of Application. The District reserves the right to revoke any application previously granted before service has been provided should applicant not agree to abide by the Rules, Regulations and Rates promulgated by the District.

4.4 Denial of Application. The District reserves the right to deny application for service on any of the following grounds:

4.4.1 That connection of the system to applicant's existing system would constitute cross-connection to an unsafe water supply; or

4.4.2 That the service applied for would create an excessive demand on the facilities; or

4.4.3 For misrepresentation in the application as to the property and fixtures contained in the property, or the use to be made of the water supply; or

4.4.4 That the area to be served is situated in a pressure zone which the District lacks capacity to serve as shown on District maps.

4.5 Change in Customer's Equipment or Service. Prior to making any change in water service or meter installation, a customer shall file an amended application with the District at least forty-eight (48) hours prior to making the proposed change.

4.5.1 No change in the customer's equipment or service shall be made without the prior approval of the District being first obtained in writing.

4.6 Unauthorized Connection Fees. An unauthorized connection fee equal to three (3) times the normal tap fee due may be collected by the District from persons connecting to the District's system without prior payment of connection fees, approval of application and permit, or adequate inspection of lines. The District, at its election, may require disconnection of any unauthorized connection at owner's expense.

4.7 Revocation of Water Service. Water service may be revoked by the District for non-payment of fees, rates, tolls and charges duly imposed and due and owing the District or for water-use violations. Service to the property will be terminated by disconnecting appropriate lines, either public or private, serving the property, or not, as the Board decides.

4.7.1 In the event a customer receives a disconnect notice for non-payment of fees, rates, tolls, and charges, the customer may request a hearing prior to revocation of service. A customer requesting a hearing prior to revocation of service for non-payment must post bond in the amount of the delinquency and the cost of the hearing.

4.7.2 In the event the Board determines there has been a violation of water use, the customer shall be given written notice by the Board or its designated representative to correct the violation and attend a hearing. The customer shall be allowed three (3) days following receipt of the notice in which to correct the violation. If the violation is not corrected within three (3) days, water service may be terminated immediately. At the hearing, the Board may assess fines up to $200 per occurrence or day and/or order revocation of service.

The District operates under the requirements of the Augmentation Plan. Water supplied by the District's water system is for domestic, in-house use only. Outside water use is not permitted. Reference Section 3.3.

4.7.3 Hearings shall be held by the District at a regular or a special meeting of the Board of Directors, at which time the customer shall have the opportunity to present testimony and evidence to the Board. Customer will be given due notice of the time and date of said hearing. Following the hearing, the Board's decision shall be final.

4.7.4 If water service to the property is terminated, the customer shall be assessed a turn-on fee to restore water service after all fees, rates, tolls, charges and fines are paid and water use violations are corrected.

SECTION 5. Construction of Service Lines

5.1 A separate and independent service line shall be provided for every building. Construction of all service lines shall be done by Constructors, or by plumbers licensed in accordance with the Technical Plumbing Code of the State of Colorado.

5.2 Existing water lines may be used in connection with new buildings only when found, on examination by the Superintendent, to meet all the requirements of these Rules and Regulations.

5.3 The water service line shall be a minimum of 3/4" I.D. of the type outlined by the Board. It will be either copper, Polyurethane or P.V.C. with pressure ratings capable of satisfying the pressure zones of the District.

5.4 The water service shall be brought to any building at an elevation of at least five (5) feet of cover and at least six (6) feet of cover under driveways.

5.5 All excavations required for the installation of water service shall be open trench work, unless otherwise approved by the Superintendent. Pipe laying and back-fill shall be performed in accordance with the Board's standard specifications.

5.6 The applicant for the building water service permit shall notify the Superintendent when the service is ready for inspection and connection to the public water main. (Appendix C)

5.7 The violation of any of these Rules and Regulations, or the District's installation specifications, shall constitute sufficient grounds for revocation of the permit. Whenever it appears a violation has been committed, the plumber or Constructor shall be sent a written notice.

5.8 No licensed plumber shall permit his license to be used by any other plumber, but plumbing work contracted for by a licensed plumber may be performed by him through journeymen plumbers or apprentices under his direct supervision. Work performed through journeymen plumbers or apprentices shall not relieve the licensed plumber from any responsibility.

5.9 All water lines within the area under jurisdiction of the Board shall be installed only by Constructors approved to perform work within the area.

5.10 All Constructors, plumbers and others doing work on any water main, service laterals, service lines, or structures in the District, shall comply with Larimer County or State Highway Department regulations on excavation, back-fill, compaction and restoration of surface. Notwithstanding the foregoing, all streets shall be restored to their same condition as existed prior to excavation.

The District may impose conditions and restrictions appropriate to assure compliance by Constructors and plumbers.

5.11 All construction work and materials shall meet the standards and specifications of the Pinewood Springs Water District, attached hereto as Appendix B.

5.12 All permits, fees and licenses shall be paid for by the owner, Constructor, plumber, or others doing work in the District, prior to the start of construction.

5.13 All excavations for water service installations, all maintenance, and all repair work shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, parkways, and other public or private property disturbed in the course of the work shall be restored in a manner satisfactory to the Superintendent.

5.14 All daily inspection fees on water construction required by Larimer County or the State Highway Department shall be paid by the owner, plumber, Constructor or others doing work in the District.

5.15 There shall be no inspection charges for inspection by the Inspector or Superintendent of the District in connection with water mains and water lines.

5.16 The Superintendent of the District or other authorized persons are the sole individuals authorized to supervise, or make taps on the District water mains.

5.17 The Superintendent of the District or other authorized personnel are hereby authorized to inspect all service lines and other facilities constructed within the District.

SECTION 6. Water Main Extensions

6.1 Requirements in Section 5 of these Rules and Regulations, where applicable, shall also pertain to this Section. The term "water mains" as used in this section shall include tanks, pumps and related facilities, when applicable.

6.2 It shall be unlawful for any person to construct a water main within the jurisdiction of the District without having first made formal application to the Board for approval, and having complied with the regulations of the Board.

6.3 All water main extensions within the jurisdiction of the District must have the prior approval of the Board of Directors. Plans for such extensions shall be submitted to the District's engineer, along with the application for a line extension. The staff shall then submit the recommended plans, with appropriate documentation, to the Board for final approval. Said plans shall be reviewed for compliance with the District's specifications attached hereto as Appendix B, and with other specifications and requirements appropriate to the situation, and such study for compliance shall be at the owner's expense.

6.4 Water mains shall be installed in roads or streets which the County, State Highway Department or other public agency, has accepted for maintenance as a public right-of-way or in easements granted to the District.

6.5 All water main extensions, that are approved and are to be constructed by the District shall be contracted for by the Board, with the contractor installing the mains being responsible to the Board. Construction of these lines and consulting engineering fees, as established herein, shall be paid by the District.

6.6 A performance and payment bond(s) equal to one hundred percent (100%) of the contract (or construction cost) shall be furnished to the District on all water main construction contracted for by the District.

6.7 All daily inspection fees on water mains required by the County of Larimer, the State Highway Department, or local governments, shall be paid by the Constructor doing work in the District.

6.8 Special structures such as pumping stations, etc., required to ensure proper operation of the water extensions, shall be constructed from designs of the District's engineers or such other engineers as may be approved by the Board.

6.9 Customers who have completed construction of water mains shall, before these lines are accepted by the District for taps, convey these lines and appurtenances to the District, free and clear of all liens and encumbrances, and the bond furnished in paragraph 6.6 shall cover all maintenance for one (1) year from the date of acceptance of the lines by the District.

6.9.1 Prior to the acceptance of the lines by the District, all easements necessarily accompanying these lines shall be duly recorded and provided for at Constructor's expense.

6.9.2 Prior to the District's acceptance of the lines, "as built" drawings shall be provided by the Constructor or reasonable provision for such drawings made.

6.10 Water main sizes required to serve any area of the District shall be determined by the District.

6.11 Notwithstanding any provision of this Article, the District may, in its discretion, extend lines under such conditions as the Board deems appropriate. Where water mains cannot be installed in a street, private drive or common area, and must be installed in easements between adjacent pieces of property, the lines will terminate at the point on the line or corner of the property being served which requires the least amount of construction by the District.

SECTION 7. Rates and Charges

7.1 General. The information contained in this Section is pertinent to all charges of whatever nature to be levied for the provision of water service. Said rates and charges as herein established are in existence and effect at this time and shall remain in effect until modified by the Board of Directors under the provisions of these Rules and Regulations, and under the applicable statutes of the State of Colorado. Nothing contained herein shall limit the Board from properly modifying rates and charges, or from modifying any classification.

7.2 Application of this Section. The rates, charges, and other information shown herein shall apply only to customers inside the District and shall in no way obligate the District to provide service outside the District under any of the conditions contained in this Section.

7.3 Classification of Customers. For the purpose of levying fair, reasonable, uniform and equitable charges, the following classifications and appropriate definitions are provided.

7.3.1 Single Family Dwelling. A single-family dwelling shall be construed as any number of persons living and cooking together in the premises as a single dwelling unit but it shall not include a group of more than three individuals not related by blood or marriage.

7.3.2 Multiple Family dwelling. A multiple-family dwelling shall, consist of a single structure or structures otherwise unattached to any other dwelling unit, and wherein more than one family unit exists.

7.3.3 Retail Business Outlet. A retail business outlet shall be any structure providing for normal commerce or business services except for those business services otherwise defined herein, and where said outlet is provided only with the required sanitary conveniences for the personnel employed at that business outlet. Where more than one business is used in one structure, the Board, at its sole discretion, shall determine the number of equivalent business outlets used therein.

7.3.4 Cafes, Restaurants, Bars. This classification shall include any establishment providing food or beverage service to the general public, and where charges for such service of food and beverages are secured. Such units shall be classified according to equivalent EQR as set forth in Appendix A.

7.3.5 Filling Stations and Garages. Filling stations and garages shall be defined as service outlets providing for the servicing of vehicular units. Under the basic definition of filling station and garages, no provision is made for automatic washing or wash rack facilities. The charges established therefore are for filling stations and garages without washing facilities.

7.3.6 Hospitality Services. This classification shall include any establishment providing hospitality services to the general public and where charges for these services are secured. This would include lodging, Bed & Breakfast, or other commercial enterprise not covered in the previous classifications. Such units shall be classified according to equivalent EQR as set forth in Appendix A. Short-Term/vacation rental of a single-family residence or accessory dwelling unit (ADU) is considered a violation of water use and is subject to penalties described in section 4.7.2, up to and including revocation of water service.

7.3.7 Any disagreement concerning classification shall be resolved by the Board of Directors of the District whose judgment shall be final.

7.4 Tap Fee. A tap fee shall be charged to all customers of the District. Such a fee shall represent a "privilege to serve" fee, assessed and paid before the permit for service is issued.

Tap fees shall be assessed as provided for in the Schedule of Water Rates and Tap Fees attached hereto as Appendix A.

7.5 Monthly Service Charge. Upon signing an Application for Water Tap and/or Service and paying the tap fee, the water service charge shall commence once the tap fee has been paid.

Water service charges shall be reflected in the Schedule of Water Rates and Tap Fees attached hereto as Appendix A.

7.6 Amended Tap Fees. In those situations where a prospective user applies for a permit for water service for a structure not defined in the preceding Section 7.3 or where, in the Board's opinion, said structure represents a classification not contemplated in the establishment of the previously defined tap fees, the Board shall, at its sole discretion, establish a fair, reasonable, and equitable tap fee for said structure.

7.7 Amended Monthly Service Charge. In those situations where, in the Board's sole discretion, the monthly service charges shown in the previous paragraphs do not represent a fair, reasonable and equitable charge for the intended use, the Board, at its sole discretion, may adjust said rates.

7.8 Payment of Monthly Service Charges. All monthly service charges shall be paid as herein set forth.

7.8.1 The service charge shall be billed to each customer every month, which will be termed a "billing period." Service charges will not be billed to renters, as they are the responsibility of the property owner.

The monthly service charges shall be due and payable on or before the 24th day of the month following the billing period. If the Customer feels said statement is in error, the customer must file in writing, a notice to the Treasurer of the District of the presumed error and request a clarification. If the Treasurer is not able to provide a satisfactory clarification for the customer, the customer's bill shall be reviewed by the Board at its next regular meeting. The Customer or his representative may be present at the meeting. Upon review by the Board and/or revision, if necessary, of the statement, payment shall be due and payable no later than the tenth day of the following month.

7.9 Penalty for Late Payment. If a customer's service charges have not been paid in full by the due date, the Treasurer may assess a service charge (interest charge) at the rate of $3.00 per month on the unpaid balance. After the due date, the Board, at its discretion, shall have the right to terminate the customer's service. A 1% interest fee on the balance will be charged to any accounts past due 3 months or more.

The Board shall have the right to assess to any customer who is tardy in payment of his account, all legal, court, and other costs necessary or incidental to the collection of said account.

7.9.1 Disconnect Notices. A notice of disconnection of water service may be issued. Such notification shall take the form of written correspondence, posted or mailed, verbal notice in person or per telephone or recorded message. A service fee shall be assessed and added to the outstanding balance. Charges set forth in Appendix A.

7.9.2 Reinstatement Fee (Turn-on Fee). If service must be discontinued by the Board due to a delinquent account or water use violations, a service charge, as set forth in Appendix A, shall be paid before service will be continued.

7.9.3 Customer Turn-off, Turn-on Request. When a customer does not expect to occupy his home during the winter months, to protect his home and water lines from freeze damage, he may request a "turn-off, turn-on" of water to his residence. There will be no turn-on or turn-off fee for this request.

Regular monthly service fee billing shall continue during this time.

7.10 Penalties for Foreclosure Proceedings. At any time, it becomes necessary for the District, following efforts to collect tardy payment of any fee or charge assessed by the District under these Rules and Regulations and/or Colorado law, to initiate foreclosure proceedings as allowed by Section 32-1-1001 (1)(j), C.R.S. 1973 as amended, the District shall in each such case assess foreclosure fees, including reasonable attorney fees, against the subject property, which fees shall be payable in full upon assessment and shall be included in the amount then being foreclosed. Payment of said foreclosure fee and any and all other fees outstanding against the subject property shall be a precondition to the resumption of service to that property.

7.11 Conditions For Filing a Lien. Overdue service and delinquent account charges, as provided in note 14 of Appendix A, will cause a lien to be filed. Fees will be charged as provided in note 13 of Appendix A.

APPENDIX A

SCHEDULE OF WATER RATES AND TAP FEES

(1) Service fees commence the first full month after the tap fee has been paid.

(2) The Application and Permit for Water Tap and/or Service and a tap fee must be submitted prior to any tap being made.

(3)

CUSTOMER DESCRIPTION	**EQR UNITS***
A. Single-family residence	1.0
B. Bars and Restaurants per each 25-person seating capacity or part thereof	1.0
C. Commercial or public buildings such as stores, offices, and similar uses having no process water:	
1. Minimum for each building or customer up to 1,000 square feet per building area	1.0
2. For each additional 1,000 square feet of building area or part thereof	1.0
3. Additional for each part of public rest rooms	1.0
D. Churches and non-profit organizational halls (no residence or regular eating facilities)	1.0
E. Construction of single-family residence prior to obtaining a Certificate of Occupancy	1.0

The water tap must be paid in full; installation of the septic system for the home must be complete; a backflow preventer (vacuum break) must be installed; a frost-free faucet must be used; AND the Water District Superintendent must approve the service line installation as specified in the Rules and Regulations.

*The EQR Units for Customer Descriptions, not included in the schedule, will be determined by the Board of Directors upon receiving the request for service.

(4) The minimum tap fee for any service is one (1) tap per building.

(5) The basic tap fee per single-family equivalent residential unit (1.0 EQR) shall be calculated on January 1st of each year per the following formula and be effective for the remainder of that year: Current tap fee = last year's tap fee + (last year's base rate * 12) + (last year's system improvement fee * 12) + 5% of last year's tap fee. Example: The tap fee for 2023 is $52,723.20.

(6) The basic water service fee for a single-family residence (1.0 EQR) is calculated as follows:

(A) The basic monthly service charge is assessed regardless of water usage or physical presence of a tap. The monthly service charge consists of a base rate charge and a system improvement fee that are $65.00 and $36.00 respectively for the billing period.

(B) In addition to the basic monthly service charge, water usage is charged based upon the following usage schedule for water produced by the water district:

Usage Range (gallons)	**Charge (per 100 gallons)**
0 to 3000	$0.80
3001 to 6000	$1.60
Greater than 6000	$7.50

(C) In the event that water hauling becomes necessary, the costs to haul water will be billed to customers in addition to the normal usage charges as follows:

1 Customers will be advised when hauling rates go into effect and meters will be read on that date. Usage to that point in the month will be billed according to the structure described in (B) after the usage ranges are adjusted in proportion to the fraction of the month before hauling began.

[(days before hauling)/(days in month)](usage range)= adjusted usage range

2 The following equation (expressed in gallons) will be used to determine if any water produced in the district during the hauling period can be billed at the normal rate described in (B) after the usage ranges have been adjusted in proportion to the fraction of the month after hauling began.

(total billed usage)-(total hauled)=total normal cost water

Total normal cost water will be equally divided amongst the customers and billed at the normal rate. Zero usage customers will not be included in this equation.

3 The hauled water will be billed according to the following hauled water structure.
4 No construction use of water will be allowed while water hauling is in effect.

Usage Range (gallons)	Charge (per 100 gallons
0 to 3000	estimated cost
3001 to 6000	1.5 X estimated cost
Greater than 6000	2 X estimated cost

These ranges refer to a customer's total usage during the hauling period. These usage ranges will be adjusted in proportion to the fraction of the month when water was hauled and to reflect water billed at normal rates [see section (6C2)].

{[(days hauled)/(days in month)}(usage range)}-(normal rate water from section 6C2) = adjusted hauled cost usage range

(7) The monthly service charges for customers with multiple EQR units being serviced through a single tap will be calculated as follows:

(A) The basic monthly service charge is multiplied by the number of EQR units.

(B) The total usage in gallons will be divided by the number of EQR units being serviced through the single meter, an average usage per unit is thus defined.

(C) This usage per unit is then subject to billing under the above rate structure for single family residences.

(D) The resulting usage per unit charge is then multiplied times the number of EQR units to arrive at the water usage charge for the billing period.

(8) Billing of monthly water service fee shall begin the first day of the month following the payment of the tap fee.

(9) All water use will be in compliance with the Water Augmentation Plan of the District (which limits homeowners to NO more than 6000 gallons per month) and the Declaration of Agreement Establishing Building Restrictions in Pinewood Springs. Continued non-compliance after notification by the District may result in termination of water service pursuant to action by the Board of Directors of the District. Water usage by an EQR in excess of the average allowed by the Augmentation Plan (6000/month) will be subject to an excessive usage fee as defined below:

First Offense- a warning letter will be sent from the District.

Additional Offenses-will be based on usage and number of offenses:*

6001-7000 gallons	$100.00 (x # of offenses)
7001-9000 gallons	$250.00 (x # of offenses)
greater than 9000 gallons	$500.00 (x # of offenses)

This is a lifetime accrual of offenses. A warning does not count as an offense. The third offense requires a mandatory appearance at the next regular board meeting for consideration of charges and/or disconnection of services. If the customer fails to appear it will result in termination of water service until such time as appearance before the board is made. Determination of fines, EQR purchase and service termination will be made at the discretion of the Board of Directors at the time of appearance.

*While water is being used during construction of a single-family residence, NO warning will be issued for the first offense and fines will be imposed. All fines will be doubled for excessive water usage (over 6000 gallons a month) during the construction period prior to obtaining a Certificate of Occupancy.

(10) Service Reinstatement Fee (Turn-On Fee) following a Board enforced turn off will be $50.00 per occurrence.

(11) Disconnect Notice Fee for issuance of notice to delinquent accounts will be $25.00 per occurrence.

(12) Returned Check Fee for checks returned for "Not Sufficient Funds" will be $10.00 per occurrence.

(13) Lien Filing Fee for delinquent accounts will be assessed per legal fees incurred.

(14) Any accumulated overdue service and delinquent account charges are sufficient to cause a lien to be filed.

**Appendix A is subject to revision by the Board of Directors at any time without prior notice.

APPENDIX B

SERVICE LINE CONSTRUCTION

1.1 General. Soil conditions vary widely in the Pinewood Springs development and excavation for installation of water service lines must take local conditions into account. Sandy loam, clay, decomposed granite and granite are found. The following recommendations are intended to provide guidance in the installation of service lines to minimize problems and to promote long and satisfactory service.

1.2 Excavation. Dig trenches, straight and true to line, and grade as conditions permit. The bottom of the trench should be free from rock points that could puncture or abrade the service line. It is recommended the service line shall be in open areas free of rock. A minimum of 5 feet of cover over the service line, and six feet of cover over the service line should be provided under driveways and rocky areas. This recommendation is to ensure against winter freezing of the water in the service line.

1.3 Excavation. The service line should be placed in the trench on a cushion of either undisturbed natural soil or compacted fine sand. If compacted sand is required, it should be sufficient depth to provide at least six (6) inches cover over rock points.

1.4 Back-filling. All back-fill material should be free of rocks, large clods, roots and other foreign matter. If an adequate quantity of appropriate back-fill material is not available, six (6) inch cushion of sand should be placed over the service line to avoid damage to the line. If the trench is under a driveway, sidewalk or other structure that could be adversely affected by settlement, the back-fill should be progressively compacted in six(6) inch layers to a 95%compaction.

APPENDIX C

PINEWOOD SPRINGS WATER DISTRICT
APPLICATION AND PERMIT FOR WATER TAP AND/OR SERVICE

Applying for: Water Tap ☐ **Water Service** ☐ **Both** ☐

Property Owner(s): _____

Water Service Address: _____

Billing Address: _____

Telephone: _____

Property Description: Lot # _ Filing # _____

_____

Type of Structure: Single Family _ Other _____

_____

Provide additional detail including number of bathrooms if "Other" is business or commercial _____

Tap Fee Status: If prepaid – Prepaid Date _ Amount _____

_____

If not prepaid - Payment in the amount of_____is attached.

Note: Application for water tap will expire one (1) year from the date of application. (See PSWD Rules and Regulations Section 4.2)

WATER SERVICE AGREEMENT

I,_____, in consideration of the right to connect to and use the District's water system, agree to abide by the following:

1. The duly adopted Rules and Regulations (of which I have received a copy) of the Pinewood Springs Water District and any amendments thereto.
2. Use the District's water supply and water system only for in-house domestic purposes. **Absolutely no outside watering!** (See Section 3.3)
3. Pay for water service as the District may direct.
4. Advise the District when a tap is to be made and request that the District's Superintendent or other authorized personnel be present.
5. No taps shall be made from November 15 to April 1 without prior written authorization from the District.

DATE APPLICANT'S SIGNATURE

PINEWOOD SPRINGS WATER DISTRICT
PERMIT AND INSPECTION FOR WATER SERVICE CONNECTION

Property Owner(s): _____

Water Service Address: _____

Telephone: _____

Property Description: Lot # _____ Filing # _____

Service Line Inspection

Depth of line: _____ Size of line: _____ Type of Pipe: _____

Proper location of line: _____ Type of fill material _____

The service line and connection to the meter pit and service lateral has been completed and inspected and conforms to the District's standards as specified in the Rules and Regulations. Permit for connection to the District's system is approved.

_____

DATE SUPERINTENDENT'S SIGNATURE

Meter Pit Installation Labor and Materials

Description	Hrs/ Qty	Description	Hrs/ Qty
Labor - Manual	_____	Brass Tee _____	____
Backhoe	_____	Brass Thread / Barb Union _____	____
Meter Pit	_____	Brass Reducing Bushing _____	____
Meter Pit Cover	_____	Brass Thread / Flare Union _____	____
Meter with Remote Readout _____	–	PVC Standpipe 3" Sched 40	____
Remote Wire	_____	PVC Stand-Pipe Cap	____
Post 4"x4"x5' for Remote.	_____	_____	____
Brass Curb Stop	____	_____	____
Setter 3/4" Copper	_____	_____	____
K-Copper Tube 3/4"	_____	_____	____
Insulation	____	_____	____

PINEWOOD SPRINGS WATER DISTRICT (PSWD) Annual Budget					
	ACTUAL 2021	ACTUAL 2022	ADOPTED 2023	ACTUALS 2023	PROPOSED 2024
BEGINNING FUND BALANCES	$ 79,806	$ 73,164	$ 76,833	$ 76,618	$ 75,000
INCOME					
Operating Income					
Tap Fees	$ 45,831	$ -	$ -	$ -	$ -
Pit Installs	$ -	$ -	$ -	$ -	$ -
Total Water Bill income					
Base Rate X 302 households (Operating Income)	$ 198,016	$ 225,700	$ 235,560	$ 178,035	$ 242,808
Water Charges (avg 2100)	$ 52,447	$ 66,665	$ 60,883	$ 43,680	$ 64,688
Usage fines, late & disc chrgs, interest	$ 2,196	$ 5,751	$ 3,000	$ 3,107	$ 3,000
System Improvment Fees*****	$ 94,848	$ 112,850	$ 130,464	$ 98,460	$ 141,336
Total Operating Income	$ 393,338	$ 410,966	$ 429,907	$ 399,900	$ 451,832
Non-Operating Income					
Debt Service / Storage Tanks (property taxes)					
Debt Service / property taxes-reservoir	$ 223,845	$ 228,576	$ 223,845	$ 193,222	$ 223,845
Interest Income	$ 489	$ 7,226	$ 1,500	$ 14,060	$ 9,000
SO Taxes (Auto)	$ 16,368	$ 16,316	$ 13,000	$ 6,830	$ 7,250
Misc. (Customer Repairs)					
Total Non-Operating Income	$ 240,702	$ 252,118	$ 238,345	$ 214,112	$ 240,095
Transfer from Savings	$ 133,260	$ 80,000			
Total Income	$ 767,300	$ 663,084	$ 668,252	$ 614,012	$ 691,927
Total Revenue and Beginning Funds Available	$ 847,106	$ 736,248	$ 745,085	$ 690,630	$ 766,927
	ACTUAL 2021	ACTUAL 2022	ADOPTED 2023	ACTUALS 2023	PROPOSED 2024
EXPENSES					
Administrative Expenses					
Auditor	$ 14,000	$ 14,500	$ 16,000	$ 17,000	$ 17,000
Bookkeeping	$ 375	$ 575	$ 800	$ 600	$ 800

Advertising/Recruitment	$ 182	$ 333	$ 400	$ 72	$ 300
Bond Agent Fee	$ -	$ -	$ -	$ -	$ 4,171
Bank Charges	$ 200	$ 165	$ 200	$ 160	$ 200
Board Compensation	$ 5,200	$ 5,400	$ 8,500	$ 4,505	$ 8,500
Contract Labor	$ 3,070	$ 3,160	$ 3,500	$ 1,860	$ 3,500
County treasurer's fee	$ 4,560	$ 4,573	$ 5,000	$ 3,080	$ 5,000
Dues	$ 3,573	$ 3,103	$ 4,000	$ 3,664	$ 4,000
Education/Training	$ 1,230	$ 1,797	$ 2,000	$ 640	$ 2,500
Legal Fees					
Attorney - Business (Hummel)	$ 218	$ -	$ 1,000	$ 460	$ 1,000
Attorney - (2025 Holleman)	$ -	$ -	$ 4,000	$ 1,488	$ 2,000
Miscellaneous (Equipment replacement, etc)	$ -	$ -	$ -	$ 1,503	$ 2,000
Office Supplies/Postage	$ 4,357	$ 3,340	$ 3,500	$ 2,985	$ 4,000
Rent - Firehouse	$ -	$ -	$ -	$ -	$ -
Salary Expense	$ 44,512	$ 46,764	$ 49,000	$ 36,309	$ 53,000
Taxes - Payroll	$ 8,431	$ 3,535	$ 4,000	$ 2,784	$ 5,000
Telephone (Administration)	$ 2,169	$ 1,317	$ 1,500	$ 1,004	$ 1,500
Travel: Mileage & Transp.	$ 307	$ 249	$ 400	$ 176	$ 400
Total Administrative Expenses	$ 92,384	$ 88,811	$ 103,800	$ 78,290	$ 114,871

	ACTUAL 2021	ACTUAL 2022	ADOPTED 2023	ACTUALS 2023	PROPOSED 2024
OPERATING EXPENSES					
Fuel	$ 1,712	$ 1,556	$ 8,000	$ -	$ 5,000
Contract labor	$ 2,815	$ 484	$ 5,000	$ 306	$ 5,000
Dues & Training	$ 3,223	$ 1,200	$ 2,000	$ 2,838	$ 2,500
Salary Expense	$ 135,716	$ 110,473	$ 117,000	$ 71,233	$ 155,000
Taxes - Payroll	$ 10,536	$ 8,400	$ 10,000	$ 5,399	$ 13,390
Liab./WorkComp/Health	$ 17,193	$ 26,000	$ 27,660	$ 19,978	$ 27,860
Telephone & Internet	$ 1,464	$ 1,516	$ 2,000	$ 1,115	$ 2,000
Electricity	$ 20,394	$ 19,040	$ 20,160	$ 17,171	$ 21,000
Propane	$ 1,623	$ 1,339	$ 2,000	$ 1,586	$ 2,200
Waste Removal	$ 1,443	$ 1,421	$ 2,000	$ 727	$ 1,800
Property Mitigation	$ -	$ -	$ 10,000	$ 305	$ 4,000
Vehicle Expenses		$ -			
Gasoline/Fuel	$ 5,994	$ 5,191	$ 6,000	$ 2,632	$ 6,500
License Fees	$ 25	$ 10	$ 10	$ 51	$ 51
Repairs & Maintenance	$ 19,131	$ 4,628	$ 9,000	$ 6,475	$ 8,300
Water Supplies & Chemicals	$ 13,451	$ 22,345	$ 23,000	$ 11,733	$ 20,000
Water Storage (augmen.water)	$ 602	$ 602	$ 610	$ 602	$ 610
Water Shares Rental	$ -	$ -	$ -	$ -	$ -

System Rep & Maint.	$ 107,995	$ 82,236	$ 129,000	$ 82,951	$ 129,000
Water Testing	$ 3,863	$ 1,320	$ 4,000	$ 1,165	$ 4,000
Total Operating Expenses	$ 347,180	$ 287,761	$ 377,440	$ 226,267	$ 408,211

	ACTUAL 2021	ACTUAL 2022	ADOPTED 2023	ACTUALS 2023	PROPOSED 2024
NON-OPERATING EXPENSE					
Capital Expenditures					
CUPS RESERVE/Hauling					
Survey (dam)					
Aeration Project/dredging					
Equipment Replacement Fund			$ 40,000	$ 13,259	$ 20,000
System Improvements (Filtration Project)	$ 30,738	$ -			
Tank maintenance & Repair	$ 126,925	$ 133,442	$ -		
PipeLine to low zone tank					
(capital)					
Grant $$ yet to be received					
Appropriated Reserves					
Total Capital Expenditures	$ 157,663	$ 133,442	$ 40,000	$ 13,259	$ 20,000

	ACTUAL 2021	ACTUAL 2022	ADOPTED 2023	ACTUALS 2023	PROPOSED 2024
EXPENSE					
Grant Expense					
Bond Principal					
Bond Interest					
Debt Loan Srv WRPWA(Herman1)	$ 8,617	$ 8,617	$ 8,617	$ 4,308	$ 8,617
Debt Loan Srv WRPWA(Herman2)	$ 52,628	$ 52,628	$ 52,628	$ 26,314	$ 52,628
Debt Loan Service CWCB	$ 162,600	$ 162,600	$ 162,600	$ 162,600	$ 162,600
Total Other Non-Op. Exp	$ 223,845	$ 223,845	$ 223,845	$ 193,222	$ 223,845
				$ 30,622	
Total Non-Ops Expenses	$ 223,845	$ 223,845	$ 223,845	$ 223,844	$ 223,845
TOTAL EXPENSES AND EXPENDITURES	$ 821,072	$ 733,859	$ 745,085		$ 766,927
Total Income and Beginning Funds	$ 847,106	$ 736,248	$ 745,085		$ 766,927

Less Total Expenses and Expenditures	$ 821,072	$ 733,859	$ 745,085		
			$ -		$ -
Net Increase (Decrease) in Unrestricted Funds					
Funds Available End of Year	$ 26,034	$ 2,389			
I, Gabriele Benson, District Clerk, certify that the attached is an accurate copy of the					
adopted 2023 budget of the Pinewood Springs Water District.					

PINEWOOD SPRINGS WATER DISTRICT (PSWD) Annual Budget					
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System Rep & Maint.	$ 107,995	$ 82,236	$ 129,000	$ 82,951	$ 129,000
Water Testing	$ 3,863	$ 1,320	$ 4,000	$ 1,165	$ 4,000
Total Operating Expenses	$ 347,180	$ 287,761	$ 377,440	$ 226,267	$ 408,211

	ACTUAL 2021	ACTUAL 2022	ADOPTED 2023	ACTUALS 2023	PROPOSED 2024
NON-OPERATING EXPENSE					
Capital Expenditures					
CUPS RESERVE/Hauling					
Survey (dam)					
Aeration Project/dredging					
Equipment Replacement Fund			$ 40,000	$ 13,259	$ 20,000
System Improvements (Filtration Project)	$ 30,738	$ -			
Tank maintenance & Repair	$ 126,925	$ 133,442	$ -		
PipeLine to low zone tank					
(capital)					
Grant $$ yet to be received					
Appropriated Reserves					
Total Capital Expenditures	$ 157,663	$ 133,442	$ 40,000	$ 13,259	$ 20,000

	ACTUAL 2021	ACTUAL 2022	ADOPTED 2023	ACTUALS 2023	PROPOSED 2024
EXPENSE					
Grant Expense					
Bond Principal					
Bond Interest					
Debt Loan Srv WRPWA(Herman1)	$ 8,617	$ 8,617	$ 8,617	$ 4,308	$ 8,617
Debt Loan Srv WRPWA(Herman2)	$ 52,628	$ 52,628	$ 52,628	$ 26,314	$ 52,628
Debt Loan Service CWCB	$ 162,600	$ 162,600	$ 162,600	$ 162,600	$ 162,600
Total Other Non-Op. Exp	$ 223,845	$ 223,845	$ 223,845	$ 193,222	$ 223,845
				$ 30,622	
Total Non-Ops Expenses	$ 223,845	$ 223,845	$ 223,845	$ 223,844	$ 223,845
TOTAL EXPENSES AND EXPENDITURES	$ 821,072	$ 733,859	$ 745,085		$ 766,927
Total Income and Beginning Funds	$ 847,106	$ 736,248	$ 745,085		$ 766,927

Less Total Expenses and Expenditures	$ 821,072	$ 733,859	$ 745,085		
			$ -		$ -
Net Increase (Decrease) in Unrestricted Funds					
Funds Available End of Year	$ 26,034	$ 2,389			
I, Gabriele Benson, District Clerk, certify that the attached is an accurate copy of the					
adopted 2023 budget of the Pinewood Springs Water District.					

CO0135610 Pinewood Springs WD
Record of Approved Waterworks (RAW)

System Name	Pinewood Springs WD
PWSID No.	CO0135610
County	Larimer County
Created Date	September 22, 2016
Date Modified	**Reason for Modification**
02/10/1999	Approval of study and the addition of soda ash chemical feed equipment for corrosion control. (Greg Akins, Technical Services Unit)
04/23/2004	Plans and specifications approval for addition of microfiltration unit. (Bradley Simons, District Engineer)
06/24/2004	Plans and specifications approval for clear well improvements associated with the addition of microfiltration unit. (Bradley Simons, District Engineer)
09/03/2004	Approval for corrosion control conversion to an ortho/polyphosphate blend. (Bradley Simons, District Engineer)
05/05/2006	Plans and specifications approval for raw water pump station and diversion. (Glenn Bodnar, Technical Services Unit)
09/22/2016	Creation of the draft RAW document. (Michael Emming, Senior Review Engineer)
03/27/2017	Finalization of the RAW document. The final revisions included relocation of the entry point sampling location. (Michael Emming, Senior Review Engineer)

Public Water System Facility Summary

Public Water System Classification	Community
Overall Source Classification	Surface Water

Section S: Sources

ID	Name	Acceptance or Approval Date	Last Modified
Groundwater Sources			
N/A	N/A	N/A	N/A
Surface Water Sources			
029	Raw Water Reservoir	06/10/2010	N/A
036	Raw Water Diversion Fr Little Thomp 2006	09/07/2006	N/A
GWUDI Sources			
N/A	N/A	N/A	N/A

Section T: Treatment

ID	Name	Acceptance or Approval Date	Last Modified
Surface Water/GWUDI Treatment Plants			
001	Pinewood Springs SWTP01	06/01/1974	04/23/2004
003	High Zone Chlorinator	06/01/1974	N/A
035	Treatment Plant for Low Zone	06/15/2006	N/A
040	Clearwell for CT and Pump Chamber	01/27/2017	N/A

Section ST: Storage Tanks

ID	Name	Acceptance or Approval Date	Last Modified
024	Lower Zone Tank No 1	06/01/1974	N/A
025	Mid Zone Tank	06/01/1974	N/A
026	High Zone Tank No 1	06/01/1974	N/A
038	Lower Zone Tank No 2	06/01/1974	N/A
039	High Zone Tank No 2	06/01/1974	N/A

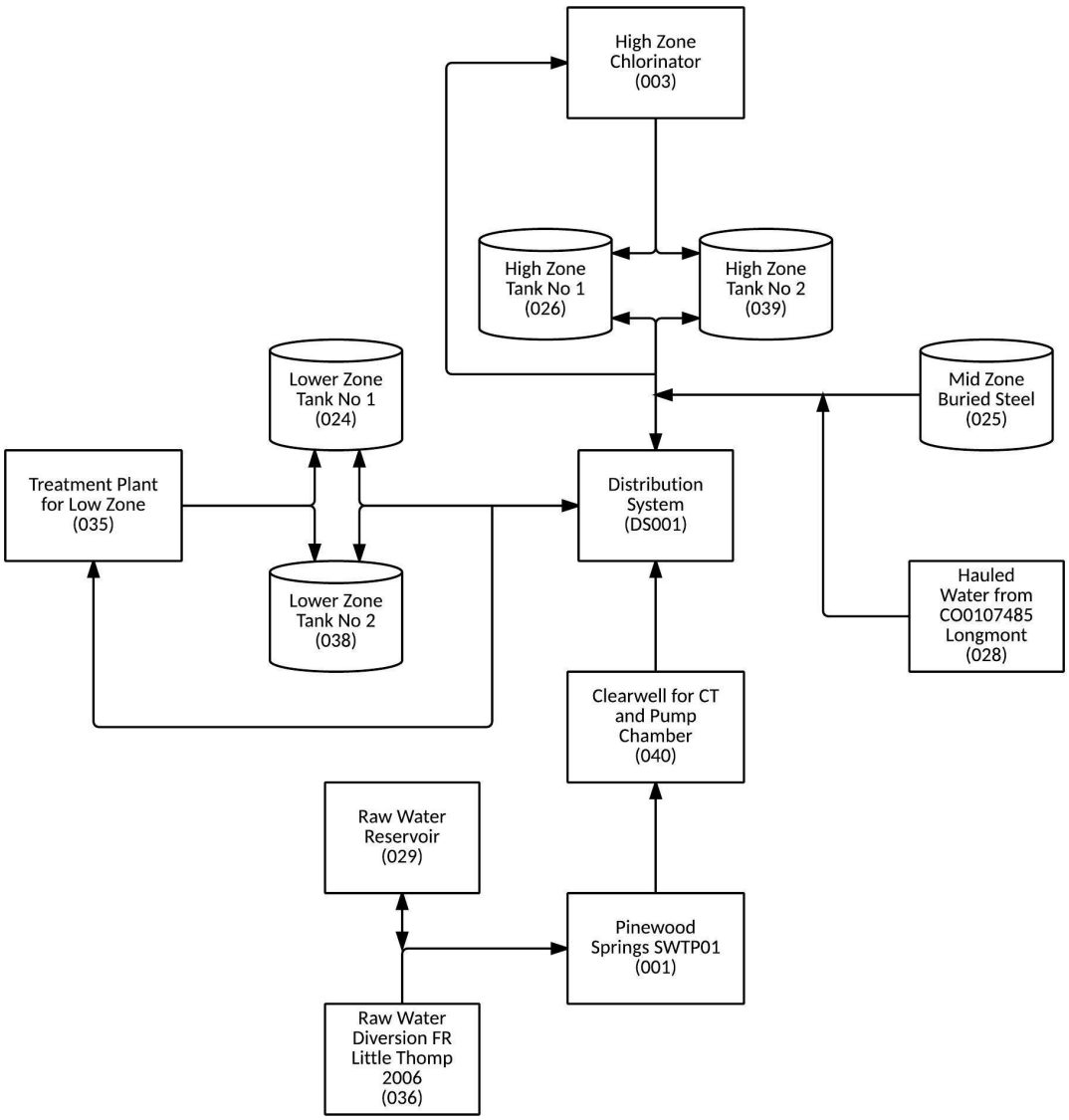
Section D: Distribution

ID	Name	Acceptance or Approval Date	Last Modified
DS001	Distribution System	06/01/1974	N/A

Facility Flow Diagram

Facility Flow Information	
Supplying Facility	Receiving Facility
036	029
036	001
029	001
001	040
040	DS001

CO0135610 - Pinewood Spring WD
Facility Flow Diagram



Water Source Details

Source ID/ Name	029 - Raw Water Reservoir
Flow Rate	Flows by gravity.
Information	● Raw water is pumped to the reservoir from Pump Facility 5 (037).
Appurtenances	● Unknown
Deviations from Design Criteria	
	N/A
Conditions of Approval	
	N/A

Source ID/ Name	036 - Raw Water Diversion FR Little Thomp 2006
Flow Rate	Flows by gravity.
Information	● Raw water is conveyed by gravity to the wetwell of Pump Facility 5 (037).
Appurtenances	● Unknown
Deviations from Design Criteria	
	N/A
Conditions of Approval	
	N/A

Water Treatment Plant Details

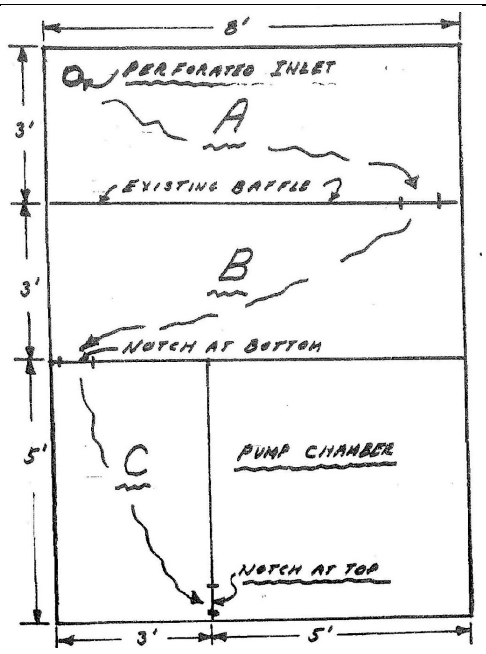
<table>
<tr><th>Treatment ID/ Name</th><th>001 – Pinewood Springs SWTP01 & 040 Clearwell for CT and Pump Chamber</th></tr>
<tr><td>Overall Rated Capacity and Limiting Process</td><td>34 gallons per minute (gpm) – Firm capacity, largest membrane skid out of service.
89 gpm – Total capacity, both membrane skids in service.
The overall capacity of 68 gpm is limited by the capacity of one (1) distribution system pump located within Clearwell for CT and Pump Chamber (040).</td></tr>
<tr><td>Minimum Water Treatment Facility Classification/ Basis</td><td>Class C - Any source utilizing a treatment technology (for example, slow sand, diatomaceous earth, membrane filtration, ion exchange, activated carbon filtration, reverse osmosis) with disinfection to comply with primary drinking water standards, and a plant design flow of less than 2 MGD.</td></tr>
<tr><td>Disinfection Credits (Triggered GW)</td><td>N/A</td></tr>
<tr><td>Disinfection Credits (4-log Certified)</td><td>N/A</td></tr>
<tr><td>Treatment Credits (GWUDI/SW Bin 1)</td><td>
<table>
<tr><th>Required from Regulation 11</th><th>Crypto</th><th>Giardia</th><th>Virus</th></tr>
<tr><td>Minimum Total Treatment Required</td><td>2.0 log</td><td>3.0 log</td><td>4.0 log</td></tr>
<tr><td>Removal Credit</td><td>3.0 log</td><td>3.0 log</td><td>0 log</td></tr>
<tr><td>Inactivation Needed</td><td>0 log</td><td>0 log</td><td>4.0 log</td></tr>
</table>
</td></tr>
<tr><td>Optimal Corrosion Control Treatment</td><td>orthophosphate corrosion inhibitor</td></tr>
<tr><td>Overall Treatment Process Description</td><td>Microfiltration (P895), sodium hypochlorite disinfection (D421), corrosion control using ortho-polyphosphate blend (C815), and disinfection contact time (D825).</td></tr>
<tr><td></td><td></td></tr>
<tr><td colspan="2">Treatment Processes</td></tr>
<tr><td>Raw Water Pumps (Pump Facility 5)</td><td>Two (2), vertical turbine pumps installed in the wetwell of the raw water booster pump station. The pumps are rated for 225 gpm and are equipped with a 25 horsepower (hp) constant speed motors.</td></tr>
<tr><td>Compliance Filtration, Microfiltration (P895)</td><td>

Two (2), pressure microfiltration skids (US Filter Memcor Model 6M10C and Scinor SMT600-P23) installed in parallel.

Number of modules per skid: 6.
Membrane surface area per module: 252 square feet (sf).
Membrane surface area per skid: 1,512 sf.
Pre-filter: Y-strainer.

</td></tr>
</table>

	○ Feed pump: One (1) end suction centrifugal pump with a 5 hp constant speed motor. ○ Flow monitoring: Filter feed and filtrate monitored by magnetic flow meters. ○ Pressure monitoring: Filter feed and filtrate monitored by pressure transducers. Inlet pressure to skid, filtrate leaving skid, and backwash monitored by pressure gauges. ○ Cross Connection Control: Provided by an air gap at the 103 gallon break tank and valving to provide a block and bleed configuration on the filtrate line. ● Air Backwashing and Raw Water Flush ○ Process air introduced to the clean side of the membrane at a pressure of not less than 90 pound per square inch (psi) and requiring a total volume of 32 cubic feet (cf) of air. ○ Raw water used to flush dislodged solids from the membranes. ○ Nominal interval between backwashes is 30 minutes. ● Clean-In-Place (CIP) Equipment CIP operation on the filter membranes is completed using sodium hypochlorite and/or citric acid. The process, including chemical addition, is completed manually.
Disinfection, Sodium Hypochlorite (D421)	● Sodium hypochlorite solution (design basis: 10-percent bulk), peristaltic chemical feed pump with spare parts and redundant chemical feed pump kept onsite, and 55 gallon sodium hypochlorite liquid storage drum. ● Sodium hypochlorite injection point after the microfiltration skids, inside the water treatment plant. Residual chlorine monitoring location is the variable volume pump chamber after the clearwell (040). ● Microfiltration system and chlorine pump electrically connected to control dosing.
Disinfection, Contact Time (D825)	● A pipeline contact chamber consisting of 170 linear feet of 4-inch diameter pipe has a contact volume of 111 gallons and a baffle factor of 1.0 based on length to diameter ratio. ● One (1), below-grade baffled concrete clearwell plumbed in series with the pipeline contact chamber is granted a baffle factor of 0.3 (based on a length to width ratio of 7 to 1) with a total active storage volume of 2,470 gallons. The storage volume assumes the baffled chambers within the clearwell are maintained full, which is attainable by the weir wall configuration of the last chamber. Note, no contact time credit is given for the variable volume pump chamber due to the negligible effects the volume has on obtaining the disinfection requirements.

	
Corrosion Control, Inhibitor/Sequestering Agent, Phosphate Based (C815)	● Ortho/polyphosphate blend (design basis: Aqua Smart, Inc., SeaQuest), peristaltic chemical feed pump with spare parts and redundant chemical feed pump kept onsite, 50 gallon polyethylene solution feed tank, and secondary chemical containment trough. ● Ortho/polyphosphate blend injection point after the microfiltration skids and chlorine injection point, inside the water treatment plant. ● Microfiltration system and chemical feed pump electrically connected to control dosing.
Treatment Appurtenances	One (1), 6-inch raw water strainer, one (1), 8-inch raw water magnetic flow meter, one (1), 6-inch surge anticipation valve, one (1), 6-inch pressure reducing valve, and one (1), finish water magnetic flow meter.
Backwash Waste Disposal	Backwash waste disposed into soil treatment area (i.e. septic system). The injection well does not appear to be authorized or permitted through the EPA.
Distribution System Booster Pumps (Clear Well Pump Facility 4)	Two (2), multistage centrifugal pumps installed after the clearwell. The pumps are rated for 68 gpm and are equipped with a 7.5 hp constant speed motor. Operation of the pump is controlled by water level in the pump chamber, and only one (1) pump is capable of running at a time.
Monitoring Locations	● Turbidity ○ **CFE**- Combined filter effluent turbidity monitored (design basis: design basis: Hach 1720E) after combination of the flow from the compliance filters and prior to disinfection. ● Residual Disinfectant ○ **EP** - Entry point free chlorine residual monitored (design basis: Hach CL17) from the potable water supply serving the

	treatment plant building (001), which represents the first customer.
Approach to Achieving Adequate Disinfection (Log-Inactivation or Minimum Chlorine)	Minimum Chlorine Residual: 1.0 mg/L (see condition No. 1)
Additional Sample/Monitoring Locations	● Sample Taps ○ N/A ● System Pressure ○ Piping to reservoir, piping to water treatment plant, and distribution system.
Deviations from Design Criteria	
Deviation No. 1	N/A
Conditions of Approval	
Condition No. 1	Per treatment credits above, the water system is required to continuously provide a minimum of 4-log inactivation of viruses by disinfection. Pursuant to Section 11.1(6), to demonstrate adequate disinfection and compliance with Section 11.8(3)(b)(i)(A) of Regulation 11, the System must continuously maintain a **minimum chlorine residual of 1.0 mg/L** at the entry point sampling location (the potable water supply serving the treatment plant building, which represents the first customer) assuming a peak flow rate of 68 gpm (flow limited by the capacity of one (1) distribution system booster pump in service), a maximum pH of 9.0, a minimum temperature of 0.5 °C, and the specifications outlined in the D825 provision above. Monitoring results must be reported on the System's monthly operating report (MOR) to calculate disinfection. ● A total active storage volume of 2,580 gallons (i.e. the piping from the water treatment plant to the clearwell and the three chambers of the clearwell) assumes the full volume of the clearwell can be utilized for contact time due to the tank configuration.

Condition No. 2	The water system must continuously meet the design, performance, and operation and maintenance requirements established in the Department's general acceptance letter, dated July 25, 2012 (or most recent version), titled *General requirements of membrane filtration technologies as Alternative Filtration Technologies for meeting the Colorado Primary Drinking Water Regulations (CPDWR) requirements for Giardia lamblia and Cryptosporidium Removal,* the Department's Evoqua Water Technologies acceptance letter, dated May 23, 2014 or most recent version, titled *Acceptance of the Evoqua Water Technologies Model L10V/L10N/L20V/L20N as an Alternative Filtration Technology to meet the Colorado Primary Drinking Water Regulations requirements for Giardia lamblia and Cryptosporidium Removal,* and the Department's Scinor Water America acceptance letter, dated February 27, 2017 (or most recent version), titled *Acceptance of the Scinor SMT600-P23 and SMT600-P38 membrane filtration modules as Alternative Filtration Technologies to meet the Colorado Primary Drinking Water Regulations requirements for Giardia lamblia and Cryptosporidium Removal*. This includes the requirement to keep a record of integrity test information, clean in place dates, filter maintenance and fiber repair results, and filter replacement dates. The direct integrity testing failure criteria shall be site and membrane specific and utilize the following decay rates. 1. Evoqua membranes – 4.47 pounds per square inch per minute (psi/min) based on a minimum starting direct integrity test pressure of 11.4 psi, design flow rate of 34 gpm, water temperature of 68 degrees Fahrenheit, and transmembrane pressure of 22 psi (per the calculations forwarded from Evoqua on March 1, 2017). 2. Scinor membranes - 1.93 psi/min based on a minimum starting direct integrity test pressure of 15 psi, design flow rate of 55 gpm, water temperature of 68 degrees Fahrenheit, and transmembrane pressure of 30 psi (per the "Pinewood Springs LRV Calculations" dated January, 2017).
Condition No. 3	The Department approved the addition of an ortho/polyphosphate blend (design basis: Aqua Smart, Inc., SeaQuest) for corrosion control on September 3, 2004. The approval is conditional based upon the following: ● The water system is to maintain an ortho/polyphosphate blend dosage of 1.0 milligrams per liter (mg/L); ● The District must monitor and record the use of the ortho/polyphosphate blend to assess the effectiveness of the corrosion control dose as well as its effect on the other water quality parameters. These records must be made available to the Division upon request; and ● The District must develop a standard operating procedure for the use of the ortho/polyphosphate blend. The standard operating procedure must include, but should not be limited to (a) detailed information associated with storage and handling of the product, (b) the implications associated with over-dosing, and (c) the effects of under-dosing.

Treatment ID/ Name	**003 – High Zone Chlorinator**
Overall Rated Capacity and Limiting Process	N/A
Minimum Water Treatment Facility Classification/ Basis	N/A
Disinfection Credits (Triggered GW)	N/A
Disinfection Credits (4-log Certified)	N/A
Treatment Credits (GWUDI/SW Bin 1)	N/A
Overall Treatment Process Description	Sodium hypochlorite disinfection (D421).
Treatment Processes	
Disinfection, Sodium Hypochlorite (D421)	● Sodium hypochlorite solution (design basis: 10-percent bulk), diaphragm chemical feed pump, and 50 gallon polyethylene solution feed tank. ● Sodium hypochlorite is injected into a service line from the distribution system and the mixed solution is pumped to the storage tanks. ● Chlorine pump is manually controlled to provide booster chlorination.
Treatment Appurtenances	● Unknown
Chlorination System Booster Pump	● One (1) end suction centrifugal pump housed within the water treatment plant. Operation of the pump is manually controlled by the operator.

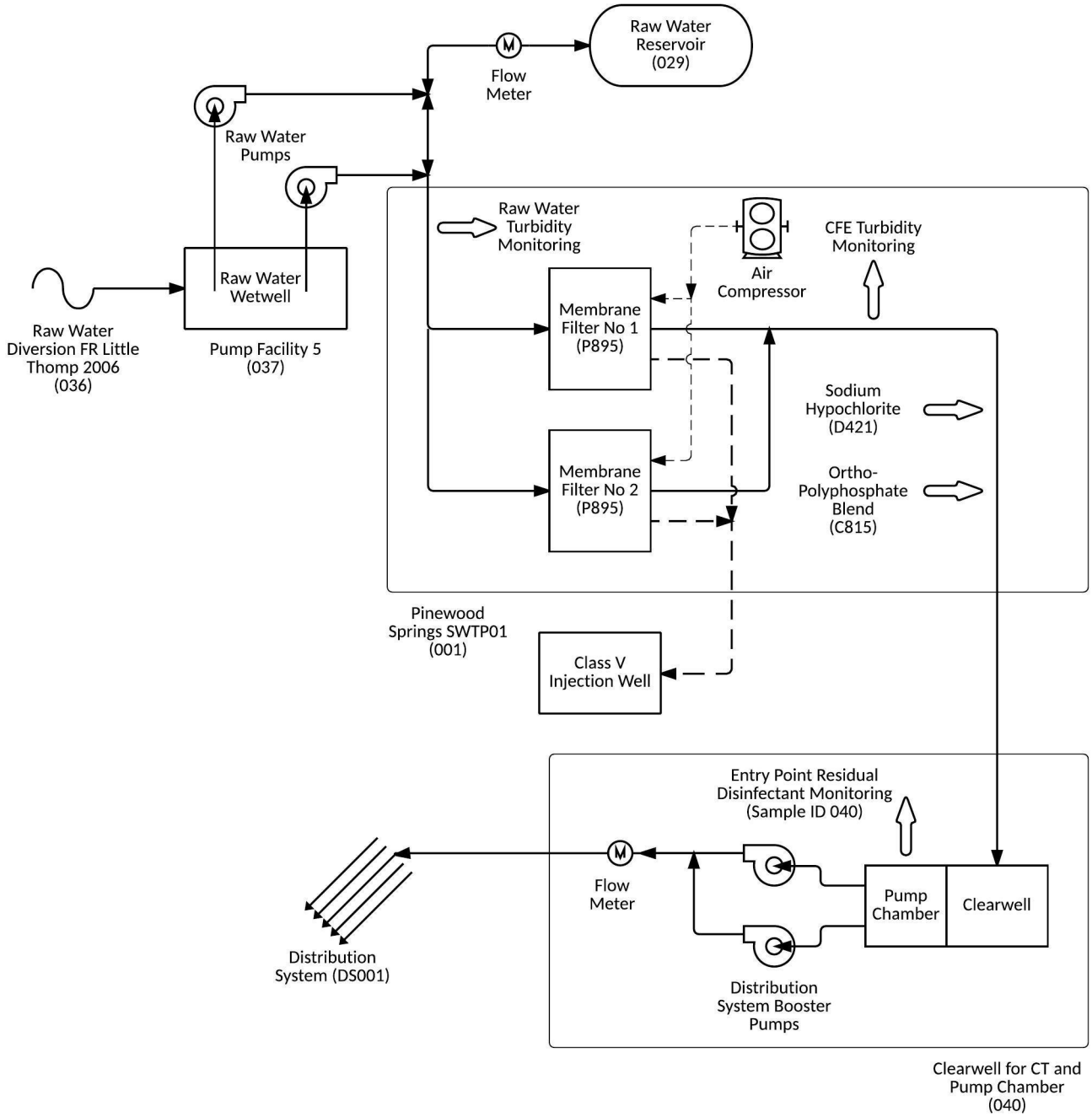
Additional Sample/Monitoring Locations	● Unknown
Deviations from Design Criteria	
Deviation No. 1	N/A
Conditions of Approval	
Condition No. 1	N/A

Treatment ID/ Name	**035 – Treatment Plant for Low Zone**
Overall Rated Capacity and Limiting Process	N/A
Minimum Water Treatment Facility Classification/ Basis	N/A
Disinfection Credits (Triggered GW)	N/A
Disinfection Credits (4-log Certified)	N/A
Treatment Credits (GWUDI/SW Bin 1)	N/A
Overall Treatment Process Description	Sodium hypochlorite disinfection (D421).
Treatment Processes	
Disinfection, Sodium Hypochlorite (D421)	● Sodium hypochlorite solution (design basis: 10-percent bulk), diaphragm chemical feed pump, and 50 gallon polyethylene solution feed tank. ● Sodium hypochlorite is injected into a service line from the distribution system and the mixed solution is pumped to the storage tanks. ● Chlorine pump is manually controlled to provide booster chlorination.
Treatment Appurtenances	● Unknown
Chlorination System Booster Pump	● One (1) end suction centrifugal pump housed within the water treatment plant. Operation of the pump is manually controlled by the operator.
Additional Sample/Monitoring Locations	● Unknown
Deviations from Design Criteria	
Deviation No. 1	N/A

Conditions of Approval	
Condition No. 1	N/A

Process Schematic

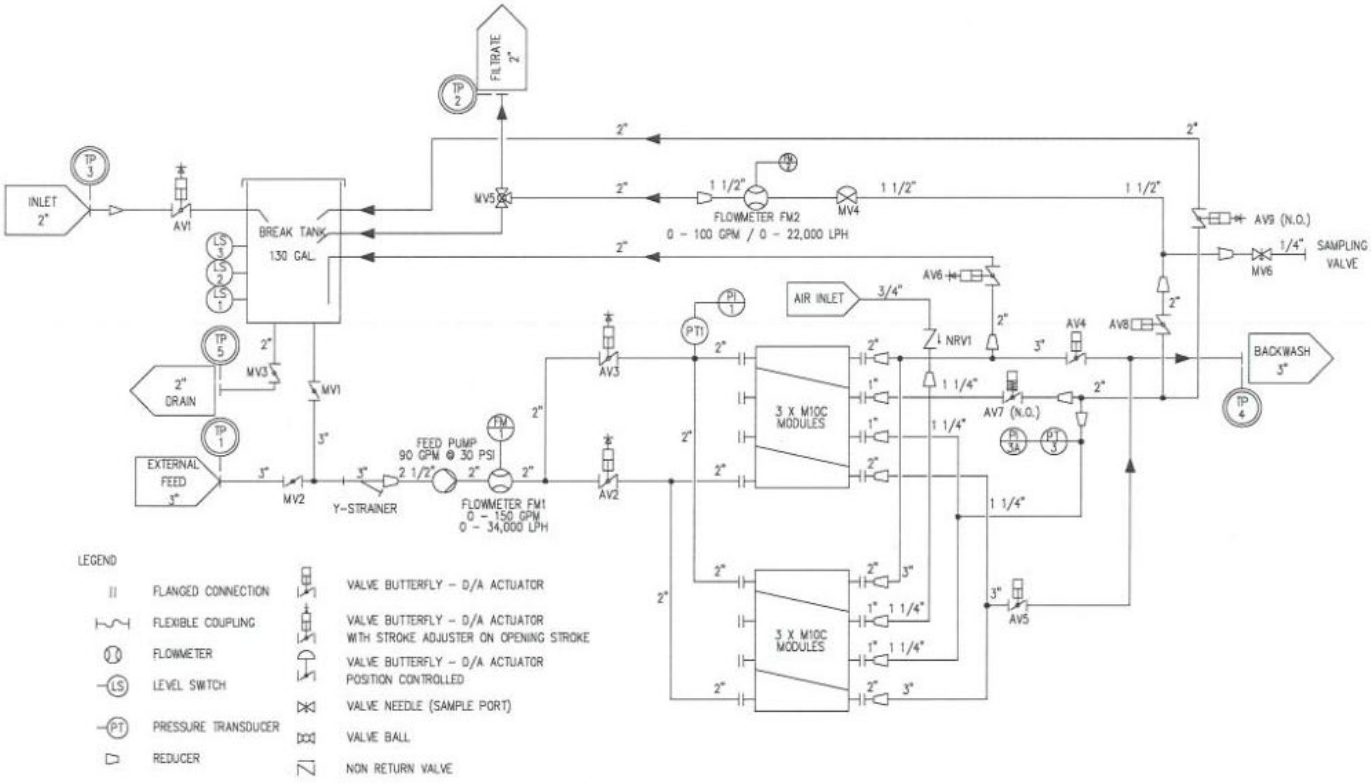
PWSID: CO0135610
WTP Name: Pinewood Springs SWTP01 – 001 &
Clearwell for CT and Pump Chamber - 040



Process Schematic

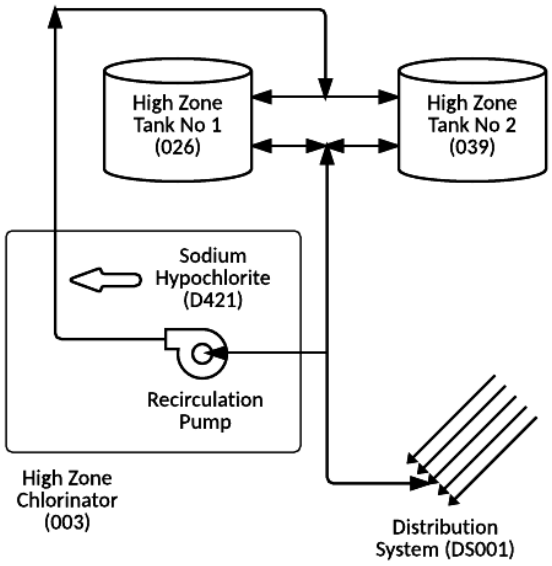
PWSID: CO0135610

WTP Name: Pinewood Springs SWTP01 – 001 (Membrane Skid)

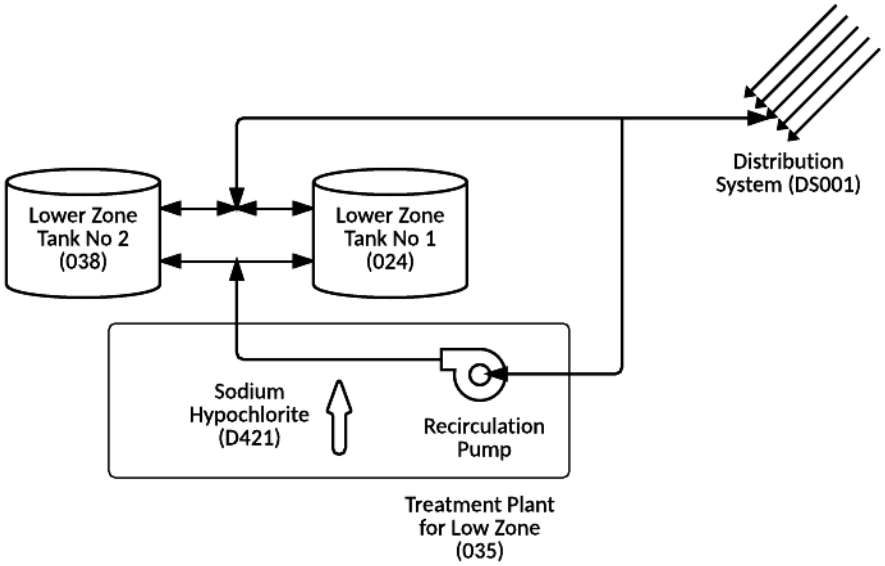


Process Schematic

PWSID: CO0135610
WTP Name: High Zone Chlorinator – 003



PWSID: CO0135610
WTP Name: Treatment Plant for Low Zone – 035



Distribution System Details

Distribution System ID	DS001
Overall Distribution System Description	System pressure is maintained using a combination of booster pump stations and storage tanks. From the Clearwell for CT and Pump Chamber (040), finished water is conveyed to the low zone distribution system and tanks (024 & 038). Pump Facility 1 (030) conveys water from the low zone to the mid zone distribution system and tank (025). Pump Facility 2 (031) conveys water from the mid zone to the high zone distribution system and tanks (026 & 039). The Treatment Plant for Low Zone (035) can be used to boost the free chlorine concentration in the low zone tanks. The High Zone Chlorinator (003) can be used to boost the free chlorine concentration in the high zone tanks.
Minimum Distribution System Class/ basis	Class 1 – The population served is 3,300 or less.
Distribution System Appurtenances	Unknown
No. of Pressure Zones	3
No. of Distribution System Pump Stations	3
No. of Pressure Reducing Valves	2, only used when water needs to be supplied between pressure zones.
Typical Pressure Range	40 to 160 psi, as measured at the meter setters.
Flushing Protocol	Unknown
Deviations from Design Criteria	
	N/A
Conditions of Approval	
	N/A

Storage Tank Details

Tank ID/ Name	024 – Lower Zone Tank No 1
Tank Volume	500,000 gallon, welded steel tank
Operating Volume	Unknown
Tank Residence Time/ Turnover Info	N/A
Tank Appurtenances	Tank piping and appurtenances include an inlet pipe, overflow with 24 mesh noncorrosive screen, outlet pipe, and a manway access with a shoe-box style lid.
Deviations from Design Criteria	
	N/A
Conditions of Approval	
	N/A

Tank ID/ Name	038 – Lower Zone Tank No 2
Tank Volume	100,000 gallon, welded steel tank
Operating Volume	Unknown
Tank Residence Time/ Turnover Info	N/A
Tank Appurtenances	Tank piping and appurtenances include an inlet pipe, overflow with 24 mesh noncorrosive screen, outlet pipe, and a manway access with a shoe-box style lid.
Deviations from Design Criteria	
	N/A
Conditions of Approval	
	N/A

Tank ID/ Name	025 – Mid Zone Buried Steel
Tank Volume	20,000, below-grade steel tank
Operating Volume	Unknown
Tank Residence Time/ Turnover Info	N/A
Tank Appurtenances	Tank piping and appurtenances include an inlet/outlet pipe and a manway with a flanged style cover.

Deviations from Design Criteria	
	N/A
Conditions of Approval	
	N/A

Tank ID/ Name	026 – High Zone Tank No 1
Tank Volume	500,000 gallon, welded steel tank
Operating Volume	Unknown
Tank Residence Time/ Turnover Info	N/A
Tank Appurtenances	Tank piping and appurtenances include an inlet pipe, overflow with 24 mesh noncorrosive screen, outlet pipe, and a manway access with a shoe-box style lid.
Deviations from Design Criteria	
	N/A
Conditions of Approval	
	N/A

Tank ID/ Name	039 – High Zone Tank No 2
Tank Volume	100,000 gallon, welded steel tank
Operating Volume	Unknown
Tank Residence Time/ Turnover Info	N/A
Tank Appurtenances	Tank piping and appurtenances include an inlet pipe, overflow with 24 mesh noncorrosive screen, outlet pipe, and a manway access with a shoe-box style lid.
Deviations from Design Criteria	
	N/A
Conditions of Approval	
	N/A

PNA Summary Section Template
J. Easter
last updated 12/9/2023 10:00:00 AM
Number of characters: 1712

3.3 Plans
Water Conservation Plan

The system does not, and will not, sell over 2,000 acre feet of water annually; hence, this section is not applicable, and no copy of the Water Conservation Plan is required. However, it should be noted that the Pinewood Springs Water District's (PSWD) Water Main Replacement Infrastructure Project supports the goals of Colorado's Water Plan's collaborative water management three core values.

Core value 1; A productive economy in our community is built with a strong, vibrant, code complaint, and sustainable water main infrastructure. The aging and failing BRR water main compromises a productive economy in our community with the broken water main infrastructure affecting multiple areas including recurring, excessive, and costly repairs on leaks, causing pipe joints to break and valves to leak, excessive loss of water due to leaks, creating water outages and disruption to water services for our customers, creating issues for customers with continual breakdown of their appliances, water heaters, toilets, and other fixtures due to low psig (pounds per square inch gauge) pneumatic pressure.

Core Value 2; Being able to replace the BRR water main to resolve the recurring issues would provide an efficient and effective water infrastructure where PSWD would be able to provide the water service our customers deserve, and the district is responsible for and with bringing the water main up to code compliance in several areas.

Core value 3; A stable water main infrastructure on BRR would provide a strong environment for Pinewood Springs setting an example to be able to conserve our water resources and eliminate costly repairs respectfully and responsibly. In the past decade, mill levy funds and loans have provided the PSWD reservoir to be built to store water for the community and eliminate the issue of hauling water in the drought seasons. PSWD is a small entity with limited funds and are unable to replace the BRR water main infrastructure without additional funds through the WSRF grant or other sources unknown.

Pinewood Springs Water District
PNA

C2 local, regional and state plans – to do

Larimer County Water Plan
Larimer County is currently working on a Water Master Plan. Pinewood Springs is located in unincorporated Larimer County so in the county's jurisdiction for water planning.
The project started in late summer 2023, and it will continue through the end of 2024.
https://www.larimer.gov/planning/water#:~:text=Larimer%20County%20is%20currently%20working,check%20back%20frequently%20for%20updates.

Larimer County is taking foundational steps on strategic goals to:

- improve long-term planning for water supply in unincorporated areas, promote water-sharing strategies to preserve agriculture, and sustain water supplies,
- address risks and sustainability, and
- prepare responsive land use policies and standards.

The Water Master Plan will become an element of the Larimer County Comprehensive Plan and will help bolster the Larimer County's strategic planning for water, wastewater, and environmental flows. Keep in mind that Larimer County is not a utility provider, so the County may play specific strategic, coordinating, and collaborating roles to achieve water goals determined through the plan.

Last year as a precursor to the plan, Larimer County engaged a consultant, Brendle Group, to conduct the regional water Existing Conditions study and to facilitate work sessions and an open house to do initial visioning and goal setting. The Existing Conditions report and Executive Summary are below. The work from 2022 is foundational for the next stages of water planning.
Larimer County Water Existing Conditions Report (6/6/2022)
Larimer County Water Existing Conditions Executive Summary
Task 2 - Vision and Goals Memo
Attachment A - County Staff Work Session Summary
Attachment B - Stakeholder Open House

Colorado Water Plan
https://cwcb.colorado.gov/colorado-water-plan
The Colorado Water Conservation Board (CWCB) creates and manages the Water Plan framework, and supports the state's water community with funding and technical resources to implement programs and projects. The 2023 Colorado Water Plan was adopted by the Colorado Water Conservation Board in January 2023 and serves as a framework for statewide

collaboration around water planning. The Colorado Water Plan guides future decision-making and supports local actions to address water challenges with a collaborative, balanced, and solution-oriented approach that builds resilience. The Colorado Water Plan includes actions in four main focus areas that work together for a stronger state: Vibrant Communities, Robust Agriculture, Thriving Watersheds, and Resilient Planning.

References to infrastructure: (interesting that there is no reference to aging infrastructure in the executive summary)
Water Values: An efficient and effective water infrastructure system

Optimize investments in infrastructure and increase efficiency and conservation

Protect storage infrastructure from effects of wildfire, flooding, and debris flow

Stream and forest health improvements using nature-based solutions can support both the natural environment and existing water infrastructure and storage by building resiliency for drought, fire, and floods; reducing sedimentation; improving water quality; attenuating high flows; and enhancing groundwater recharge.

Loan application
8.5 Environmental Impacts
Describe direct and indirect impacts on floodplains, wetlands, wildlife habitat, historical and archaeological properties, etc., including any projected permits and certifications. (No more than 2,000 Characters)

> The proposed sites for this financial assistance application are located in pre-disturbed areas of existing water lines. No new areas will be impacted directly or indirectly. The Pinewood Springs Water District makes every effort to ensure minimal adverse environmental impacts during construction. The goal is to mitigate environmental impacts by avoiding, reducing and/or minimizing negative impacts and disturbances.
>
> Floodplains. The existing water line along Cree Court is located in a floodplain area (Larimer County Land Information Locator, Flood Map, https://maps1.larimer.org/gvh/?Viewer=LIL&%3Brun=Theme&%3Btheme=Flood%20Information). [insert exact location of impact on a map?]
>
> Wetlands. It does not appear that any work will impact existing wetlands in Pinewood Springs, according to the Colorado Wetland Inventory map.

https://csurams.maps.arcgis.com/apps/webappviewer/index.html?id=a8e43760cb934a5084e89e46922580cc
The Colorado Wetlands Inventory Mapping Tool is intended to assist in identifying wetland and riparian areas and provides only potential and approximate locations of the features mapped.

Wildlife habitat. Temporary disturbance of wildlife habitat may take place during construction periods (construction noise, equipment and supplies placement). However, it is expected that no wildlife habitat will be impacted permanently or for long periods of time. Every effort will be made to minimize impacts to wildlife during construction. Nesting birds, in particular, raptors can be protected by prohibiting construction in raptor nesting areas during the month April.
Construction will be conducted between 9:00 am and 7:00 pm to minimize noise disturbances for wildlife and residents.

Endangered species.

Historical, cultrual and archaeological properties. There are no known historical, cultural and archeological properties in the proposed construction areas for this project.

Materials. Pinewood Springs Water District will properly dispose of materials removed for replacement. Anything else about this that should be stated?

Pollution from construction equipment?

Direct Costs and Schedule Last Update: 10/31/2023

(1.) Button Rock (3,300 lf) - 16 meters, 3 hydrants

(2.) Wichita (2,220 lf), 23 meters, 1 hydrant

(3.) Cree Court (1,362 lf), 16 meters, 1 hydrant

(4.) Meadows to Cherokee (3,036 lf), 9 meters, 2 hydrants

(5.) Kiowa Hopi (2,290 lf), 27 meters, 2 hydrants

SRF

EXHIBIT B - BUDGET AND SCHEDULE - Direct & Indirect (Administrative) Costs

Date: 10/31/2023

Water Activity Name: Pinewood Springs Water District - Water Main Replacement Infrastructure Project

Grantee Name: Pinewood Springs Water District

(1.) Button Rock (3,300 lf) - 16 meters, 3 hydrants

Task No.[1]	Description	Start Date[2]	End Date	SRF Funds [3]	Total
Task 1 -	Fuel, Tools, Barricades Traffic Control	6/23/2024	6/30/2024	$58,964.80	
Task 2 -	Materials				
Task 3 -	Trencher				
Task 4 -	Pipe welders and laborers Backhoe				
Task 5 -	with compactor				
Week 1 - Section 1					$58,964.80
Task 6 -	Fuel, Tools, Barricades Traffic Control	6/30/2024	7/7/2024	$59,556.80	
Task 7 -	Materials				
Task 8 -	Trencher				
Task 9 -	Pipe welders and laborers Backhoe				
Task 10 -	with compactor				
Week 2 - Section 2					$59,556.80
Task 11 -	Fuel, Tools, Barricades Traffic Control	7/7/2024	7/14/2024	$59,556.80	
Task 12 -	Materials				
Task 13 -	Trencher				
Task 14 -	Pipe welders and laborers Backhoe				
Task 15 -	with compactor				
Week 3 - Section 3					$59,556.80
Task 16 -	Fuel, Tools, Barricades Traffic Control	7/14/2024	7/21/2024	$58,664.80	
Task 17 -	Materials				
Task 18 -	Trencher				
Task 19 -	Pipe welders and laborers Backhoe				
Task 20 -	with compactor				
Week 4 - Section 4					$58,664.80
			Total	$236,743.20	$236,743.20

Detailed Bu

Date: **10/31/2023**

Water Activity Name: **Pinewood Springs Wat**

Grantee Name: **Pinewood Springs Wat**

Infrastructure - Construction - Maintenance Project, replacing existing water main

, replacing

(5) Mainline sections of exsiting water main replacement (12,208 lf)	Estimated hours for total project	Estimated working days per Mainline Section
Estimated hours for project length	1,120	

(1.) Button Rock (3,300 lf) - 16 meters, 3 hydrants	28
(2.) Wichita (2,220 lf), 23 meters, 1 hydrant	28
(3.) Cree Court (1,362 lf), 16 meters, 1 hydrant	28
(4.) Meadows to Cherokee (3,036 lf), 9 meters, 2 hydrants	28
(5.) Kiowa Hopi (2,290 lf), 27 meters, 2 hydrants	28
	140

$83.00/lf - aggregate cost			
	$	889,950.00	proposal
12,208 lf * $83.00 = $1,013,264.00	$	(1,013,264.00)	aggregate cost/lf
difference proposal minus aggregate cost	$	(123,314.00)	

Additional Costs, not included in proposal			**total #**
4" HDPE DR 11 pipe/ lf	$	5.00	1,500
meters	$	2,250.00	91
valves	$	300.00	21
PRVs	$	225.00	91
hydrants	$	892.00	9
backflow connectors	$	479.95	91
Temple inclusions, email 10/28/2022		soft costs TBD	TBD
engineer approver after pressure tests		soft costs TBD	TBD
progress administrator		soft costs TBD	TBD
Merrick - engineer		soft costs TBD	TBD
bond attorney - pledge #		soft costs TBD	TBD

(1.) Button Rock (3,300 lf) - 16 meters, 3 hydrants

	Est. Materials hours	Est. Labor hours
Total Materials hours	**48**	
Total Labor hours		**176**
Total Materials/Labor hours		

Total Materials cost		
Total Labor cost		
TOTAL Construction cost		
(2.) Wichita (2,220 lf), 23 meters, 1 hydrant		
	Est. Materials hours	Est. Labor hours
Total Materials hours	**48**	
Total Labor hours		**176**
Total Materials/Labor hours		
Total Materials cost		
Total Labor cost		
TOTAL Construction cost		
(3.) Cree Court (1,362 lf), 16 meters, 1 hydrant		
	Est. Materials hours	Est. Labor hours
Total Materials hours	**48**	
Total Labor hours		**176**
Total Materials/Labor hours		
Total Materials cost		
Total Labor cost		
TOTAL Construction cost		
(4.) Meadows to Cherokee (3,036 lf), 9 meters, 2 hydrants		
	Est. Materials hours	Est. Labor hours
Total Materials hours	**48**	
Total Labor hours		**176**
Total Materials/Labor hours		
Total Materials cost		
Total Labor cost		
TOTAL Construction cost		
(5.) Kiowa Hopi (2,290 lf), 27 meters, 2 hydrants		
	Est. Materials hours	Est. Labor hours
Total Materials hours	**48**	
Total Labor hours		**176**
Total Materials/Labor hours		
Total Materials cost		
Total Labor cost		
TOTAL Construction cost		
Project Totals	Est. Materials hours	Est. Labor hours

Project Totals - (1.), (2.), (3.), (4.), (5.)	**240**	**880**

dget Estimate

er District - Water Main Replacement Infrastructure Project
er District

Estimated hours per Mainline Section	Linear Feet per Mainline Section
224	3,300
224	2,220
224	1,362
224	3,036
224	2,290
1,120	**12,208**

total cost	
$	7,500.00
$	204,750.00
$	6,300.00
$	20,475.00
$	8,028.00
$	43,675.45

$	290,728.45	Total estimated additional costs

Total hours	Materials	Labor	Total cost
224			

	$79,143.20		
		$157,600.00	
			$236,743.20

Total hours	Materials	Labor	Total
224			
	$93,235.85		
		$157,600.00	
			$250,835.85

Total hours	Materials	Labor	Total
224			
	$63,131.20		
		$157,600.00	
			$220,731.20

Total hours	Materials	Labor	Total
224			
	$52,862.55		
		$161,200.00	
			$214,062.55

Total hours	Materials	Labor	Total
224			
	$102,729.65		
		$157,600.00	
			$260,329.65

Total hours	Materials	Labor	Total

1120	$391,102.45	$791,600.00	$1,182,702.45

Pinewood Springs Water District - Water Main Replacement Infrastructure Project Project Schedule

Project Start Date: 10/1/2023 (Sunday)
Display Week: 1
Project Lead:

WBS	TASK	LEAD	PREDECESSOR	START	END	DAYS	% DONE
1	**Peparation**				-		
1.1	**Announce Notice**	[Name]		10/1/2023	Tue 11/14/23	45	100%
1.2	**Submit PNA**		10/1/2023	11/1/2023	Wed 11/01/23	1	0%
1.3	**PNA Review**		Submit PNA	11/1/2023	Sat 12/30/23	60	0%
1.4	**Public Meeting**		10/1/2023	11/16/2023	Thu 11/16/23	1	0%
1.4.1	**CEOS Assess**		Sat 12/30/23	1/1/2024	Mon 1/01/24	1	0%
1.4.2	**PNA Iterate**		Mon 1/01/24	1/1/2024	Tue 1/30/24	30	0%
1.5	**PNA Final**		Tue 1/30/24	2/1/2024	Thu 2/01/24	1	0%
1.6	**To D & E - Merrick**		Thu 2/01/24	2/1/2024	Tue 4/30/24	90	0%
1.7	**Design Final**		Tue 4/30/24	5/1/2024	Wed 5/01/24	1	0%
1.8	**Reqts for Loan App**		Wed 5/01/24	5/1/2024	Fri 5/31/24	30	0%
1.9	**Loan Submit**		Fri 5/31/24	6/1/2024	Sat 6/01/24	1	0%
1.10	**Reqts for Loan Exec**		Sat 6/01/24	6/1/2024	Sat 6/22/24	21	0%
1.11	**BEGIN Construction**		Sat 6/22/24	7/1/2024	Sun 6/23/24	1	0%
1	**Button Rock**				-		
1.1	**Week 1 - Section 1**		Sun 6/23/24	Sun 6/23/24	Sun 6/30/24	7	0%
1.2	**Week 2 - Section 2**		Sun 6/30/24	Sun 6/30/24	Sun 7/07/24	7	0%
1.3	**Week 3 - Section 3**		Sun 7/07/24	Sun 7/07/24	Sun 7/14/24	7	0%
1.4	**Week 4 - Section 4**		Sun 7/14/24	Sun 7/14/24	Sun 7/21/24	7	0%
1.5	[Task]						0%
2	**Wichita**				-		
2.1	**Week 1 - Section 1**		Sun 7/21/24	Sun 7/21/24	Sat 7/27/24	7	0%
2.2	**Week 2 - Section 2**		Sat 7/27/24	Sat 7/27/24	Sat 8/03/24	7	0%
2.3	**Week 3 - Section 3**		Sat 8/03/24	Sat 8/03/24	Sat 8/10/24	7	0%
2.4	**Week 4 - Section 4**		Sat 8/10/24	Sat 8/10/24	Sat 8/17/24	7	0%
2.5	[Task]					7	0%
3	**Cree Court**				-		
3.1	**Week 1 - Section 1**		Sat 8/17/24	Sat 8/17/24	Fri 8/23/24	7	0%

3.2	**Week 2 - Section 2**		Fri 8/23/24	Fri 8/23/24	Fri 8/30/24	7	0%
3.3	**Week 3 - Section 3**		Fri 8/30/24	Fri 8/30/24	Fri 9/06/24	7	0%
3.4	**Week 4 - Section 4**		Fri 9/06/24	Fri 9/06/24	Fri 9/13/24	7	0%
3.5	[Task]					7	0%
4	**Meadows/Cherokee**				-		
4.1	**Week 1 - Section 1**		Fri 9/13/24	Fri 9/13/24	Thu 9/19/24	7	0%
4.2	**Week 2 - Section 2**		Thu 9/19/24	Thu 9/19/24	Thu 9/26/24	7	0%
4.3	**Week 3 - Section 3**		Thu 9/26/24	Thu 9/26/24	Thu 10/03/24	7	0%
4.4	**Week 4 - Section 4**		Thu 10/03/24	Thu 10/03/24	Thu 10/10/24	7	0%
4.5	[Task]					7	0%
5	**Kiowa Hopi**				-		
5.1	**Week 1 - Section 1**		Thu 10/10/24	Thu 10/10/24	Wed 10/16/24	7	0%
5.2	**Week 2 - Section 2**		Wed 10/16/24	Wed 10/16/24	Wed 10/23/24	7	0%
5.3	**Week 3 - Section 3**		Wed 10/23/24	Wed 10/23/24	Wed 10/30/24	7	0%
5.4	**Week 4 - Section 4**		Wed 10/30/24	Wed 10/30/24	Wed 11/06/24	7	0%
5.5	[Task]					7	0%
6	**Project Close-out**				-		
6.1	**SRF Close-out Reqts**		Wed 11/06/24	Wed 11/06/24	Tue 11/12/24	7	0%
6.2	**Final Inspection**		Tue 11/12/24	Tue 11/12/24	Tue 11/19/24	7	0%
6.3	**Final**		Tue 11/19/24	Tue 11/19/24	Tue 11/26/24	7	0%

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
	2 Oct 2023	9 Oct 2023	16 Oct 2023	23 Oct 2023	30 Oct 2023	6 Nov 2023	13 Nov 2023
	2	9	16	23	30	6	13
WORK DAYS	M	M	M	M	M	M	M
-							
32							
1							
43							
1							
1							
22							
1							
64							
1							
23							
1							
15							
1							
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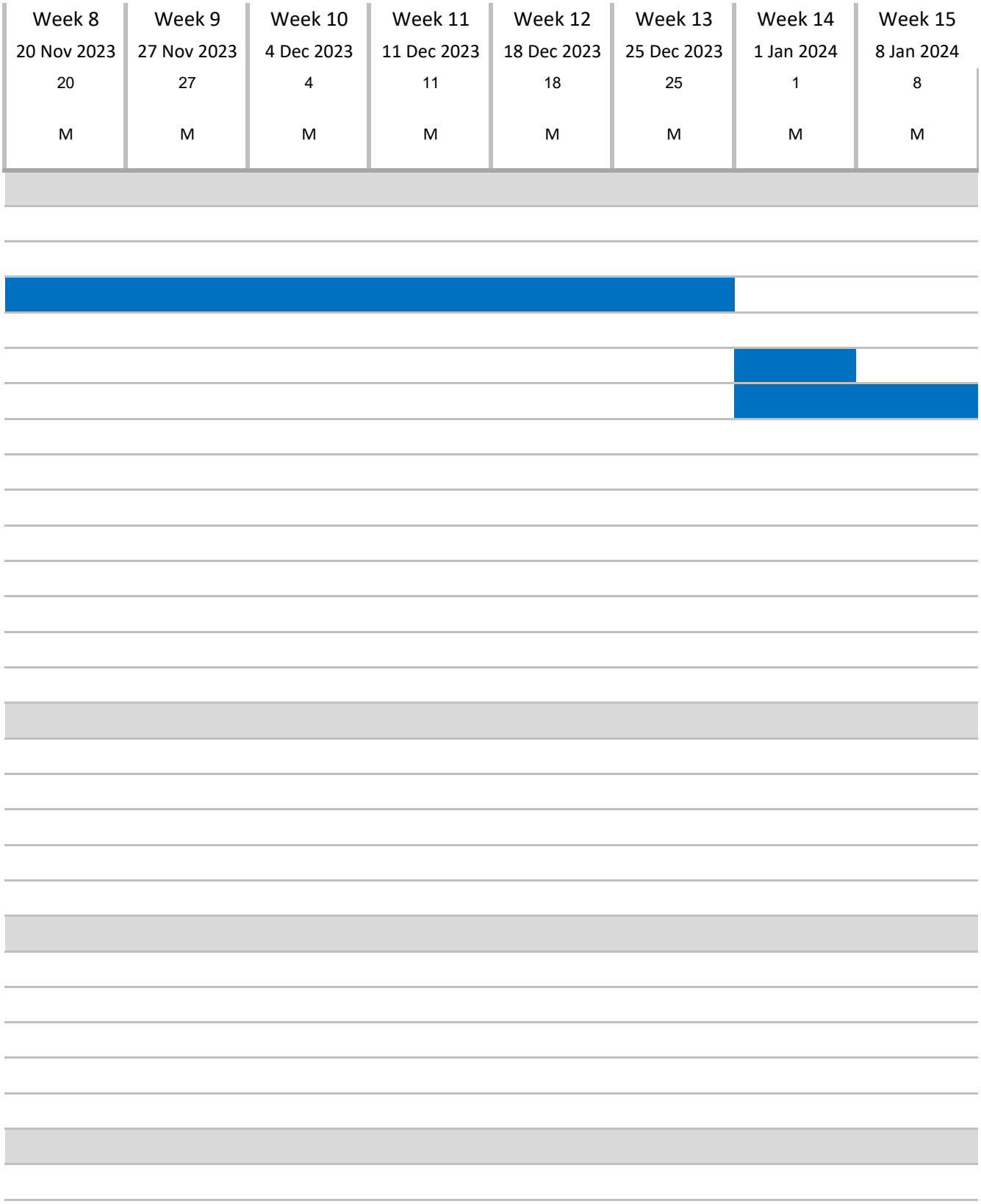
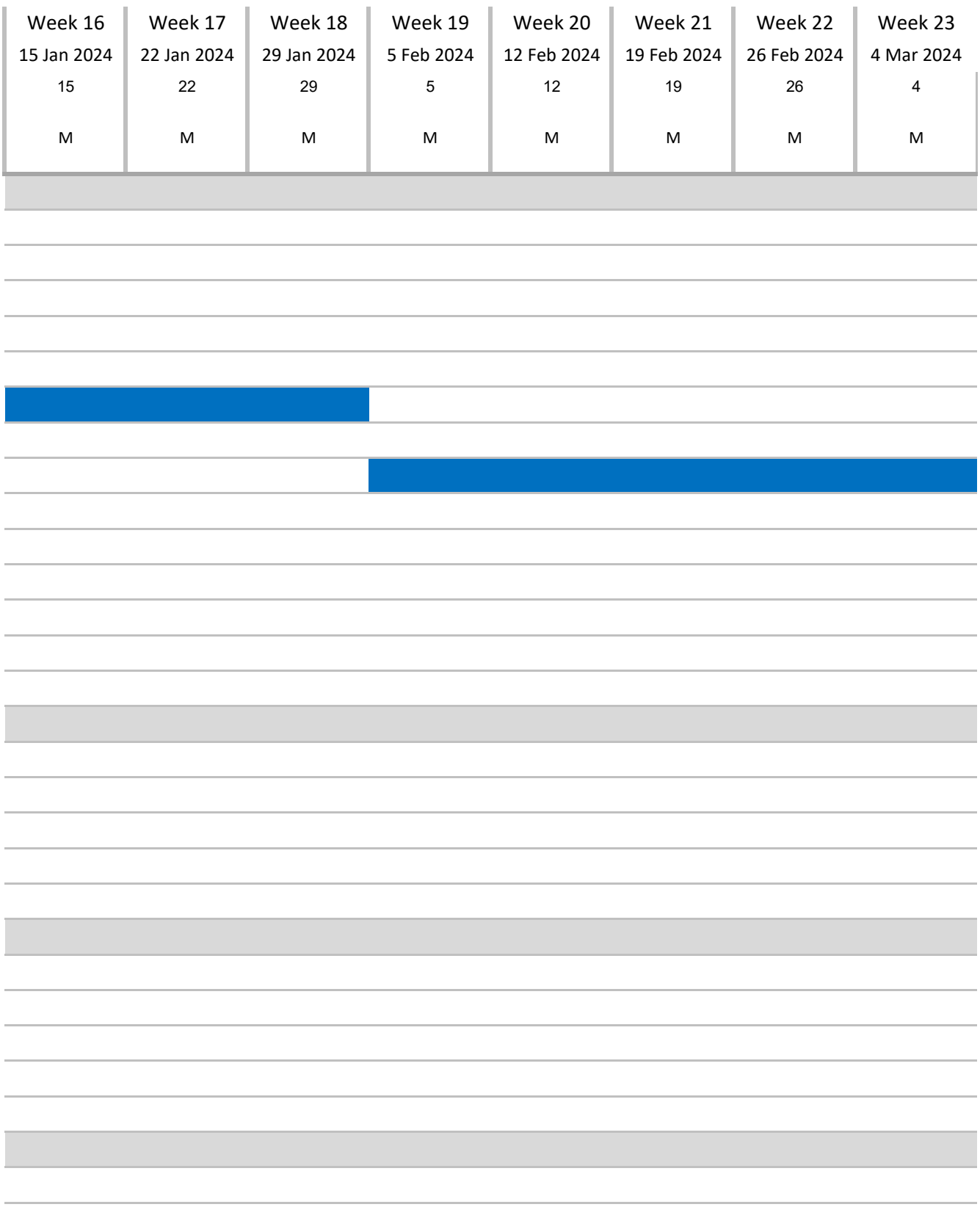
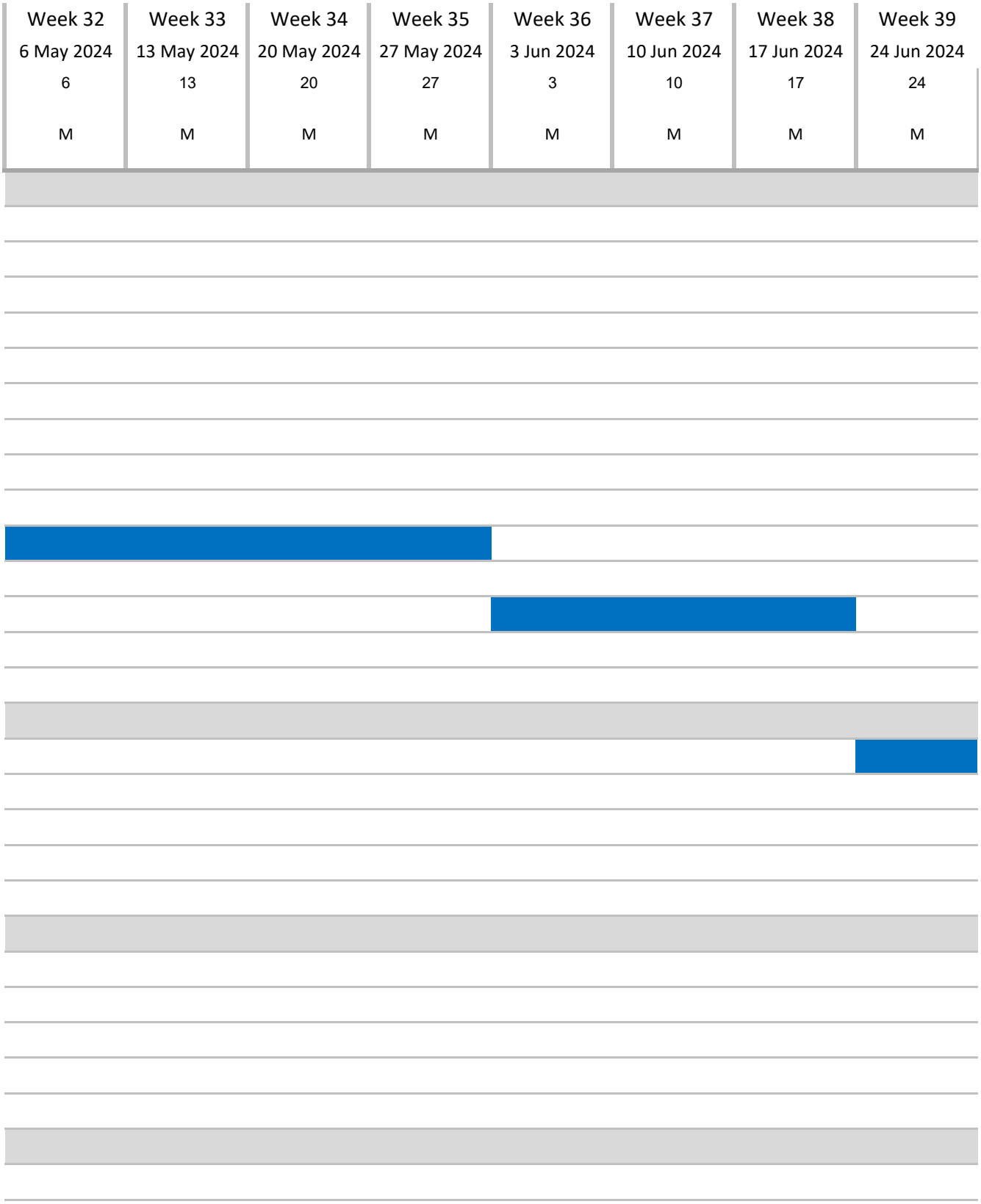

Week 8
20 Nov 2023
20
M
Week 9
27 Nov 2023
27
M
Week 10
4 Dec 2023
4
M
Week 11
11 Dec 2023
11
M
Week 12
18 Dec 2023
18
M
Week 13
25 Dec 2023
25
M
Week 14
1 Jan 2024
1
M
Week 15
8 Jan 2024
8
M


Week 16
15 Jan 2024
15
M
Week 17
22 Jan 2024
22
M
Week 18
29 Jan 2024
29
M
Week 19
5 Feb 2024
5
M
Week 20
12 Feb 2024
12
M
Week 21
19 Feb 2024
19
M
Week 22
26 Feb 2024
26
M
Week 23
4 Mar 2024
4
M

Week 24	Week 25	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31
11 Mar 2024	18 Mar 2024	25 Mar 2024	1 Apr 2024	8 Apr 2024	15 Apr 2024	22 Apr 2024	29 Apr 2024
11	18	25	1	8	15	22	29
M	M	M	M	M	M	M	M


Week 32
6 May 2024
6
M
Week 33
13 May 2024
13
M
Week 34
20 May 2024
20
M
Week 35
27 May 2024
27
M
Week 36
3 Jun 2024
3
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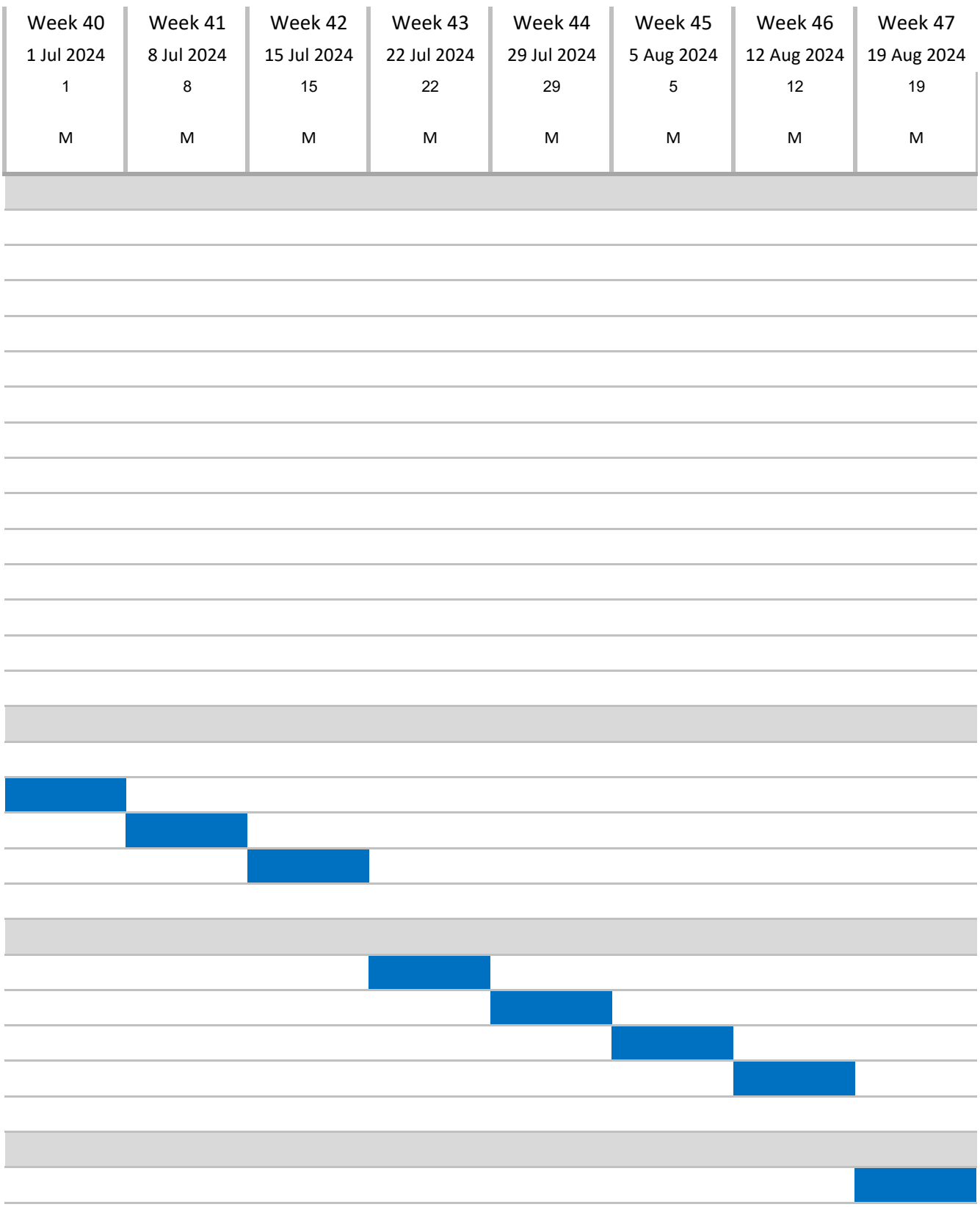
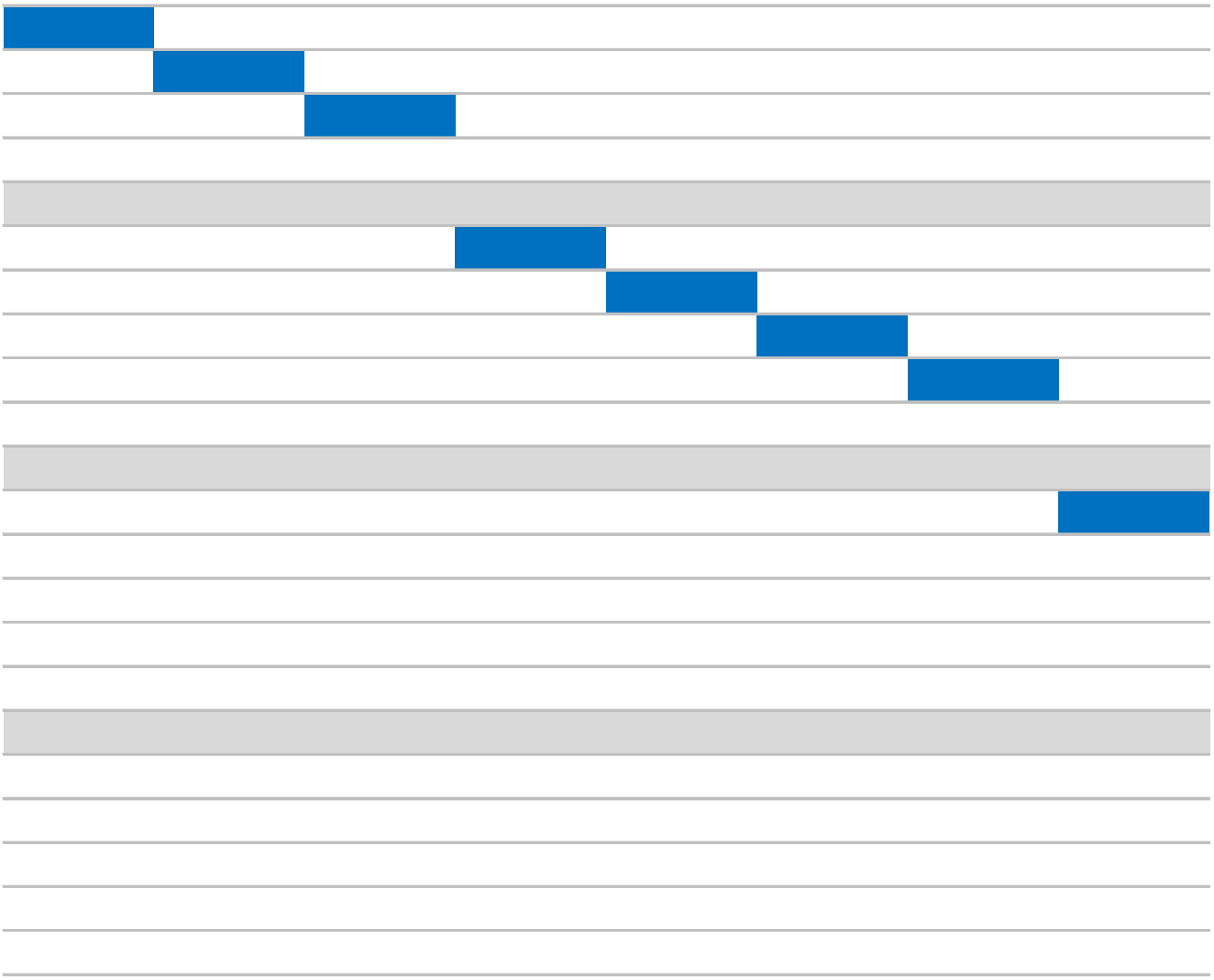
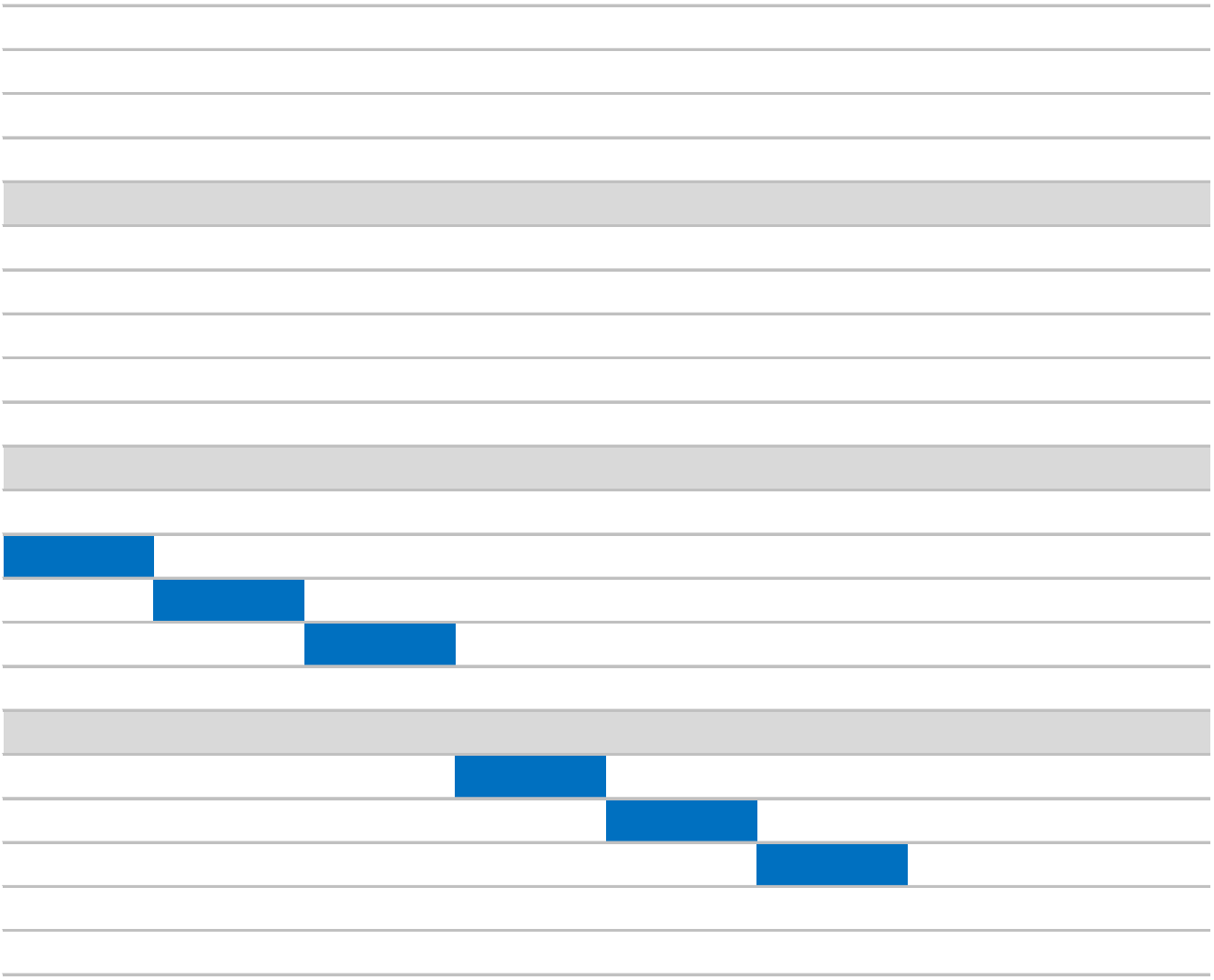
Week 37
10 Jun 2024
10
M
Week 38
17 Jun 2024
17
M
Week 39
24 Jun 2024
24
M


Week 40
1 Jul 2024
1
M
Week 41
8 Jul 2024
8
M
Week 42
15 Jul 2024
15
M
Week 43
22 Jul 2024
22
M
Week 44
29 Jul 2024
29
M
Week 45
5 Aug 2024
5
M
Week 46
12 Aug 2024
12
M
Week 47
19 Aug 2024
19
M

Week 48	Week 49	Week 50	Week 51	Week 52	Week 53	Week 54	Week 55
26 Aug 2024	2 Sep 2024	9 Sep 2024	16 Sep 2024	23 Sep 2024	30 Sep 2024	7 Oct 2024	14 Oct 2024
26	2	9	16	23	30	7	14
M	M	M	M	M	M	M	M



Week 56	Week 57	Week 58	Week 59	Week 60	Week 61	Week 62	Week 63
21 Oct 2024	28 Oct 2024	4 Nov 2024	11 Nov 2024	18 Nov 2024	25 Nov 2024	2 Dec 2024	9 Dec 2024
21	28	4	11	18	25	2	9
M	M	M	M	M	M	M	M



Week 64	Week 65	Week 66	Week 67	Week 68	Week 69	Week 70	Week 71
16 Dec 2024	23 Dec 2024	30 Dec 2024	6 Jan 2025	13 Jan 2025	20 Jan 2025	27 Jan 2025	3 Feb 2025
16	23	30	6	13	20	27	3
M	M	M	M	M	M	M	M

Week 72	Week 73	Week 74	Week 75	Week 76	Week 77	Week 78	Week 79
10 Feb 2025	17 Feb 2025	24 Feb 2025	3 Mar 2025	10 Mar 2025	17 Mar 2025	24 Mar 2025	31 Mar 2025
10	17	24	3	10	17	24	31
M	M	M	M	M	M	M	M

Week 80	Week 81	Week 82	Week 83	Week 84	Week 85	Week 86	Week 87
7 Apr 2025	14 Apr 2025	21 Apr 2025	28 Apr 2025	5 May 2025	12 May 2025	19 May 2025	26 May 2025
7	14	21	28	5	12	19	26
M	M	M	M	M	M	M	M

Week 88	Week 89	Week 90	Week 91
2 Jun 2025	9 Jun 2025	16 Jun 2025	23 Jun 2025
2	9	16	23
M	M	M	M

(1.) Button Rock (3,300 lf)

Detailed Budget Estimate

Date:	**10/31/2023**
Water Activity Name:	**Pinewood Springs Water District - Water Ma**
Grantee Name:	**Pinewood Springs Water District**

Infrastructure - Construction - Maintenance Project, replacing existing water main

(1.) Button Rock (3,300 lf) - 16 meters, 3 hydrants

Estimated working days for job length	28 days	
Estimated hours for job length		224 hrs
Estimated working days per Task-Week-Section	7 days	
Estimated hours per Task-Week-Section		56 hrs

aggregate cost - $83.00 * 3,300 lf	$	273,900.00	$	273,900.00
Proposal did not include; additional costs				
4" HDPE DR 11 pipe/ lf (1,500 lf)	$	7,500.00		
valve (1)	$	300.00		
meters (16)	$	36,000.00		
PRVs (16)	$	3,600.00		
hydrant (3)	$	2,676.00		
backflow connectors (16)	$	7,679.20		
	$	57,755.20		

Materials:	quantity		total
Fuel		$	1,600.00
Tools		$	800.00
Brass fittings		$	4,394.00
Connectors		$	4,394.00
4" HDPE DR 11 pipe/ lf - $5.00 lf * (3,300 lf)	3,300 lf	$	16,500.00
meters - $2,250.00 * (16 qty)	16	$	36,000.00
valves - $300.00 * (4 qty)	5	$	1,500.00
PRVs - $225.00 * (16 qty)	16	$	3,600.00
hydrant - $892.00 * (3 qty)	3	$	2,676.00
backflow connectors - $479.95 * (16 qty)	16	$	7,679.20
		$	79,143.20

Construction - Week 1 - Section 1 - (1.) Button Rock

(1.) Button Rock (825 lf) - 4 meters, 1 hydrant

Week 1 - Section 1; total hours	56 hrs
Week 1 - Section 1; total working days	7 days

Week 1 - Section 1; linear feet	825 lf	
Task 1 - Construction - Week 1 - Section 1 - (1.) Button Rock		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 1-Week 1-Section 1; Fuel, Tools, Barricades Traffic C	4	4
Task 2 - Construction - Week 1 - Section 1 - (1.) Button Rock		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (825 lf)		
Brass fittings		
Connectors		
Meters (4)		
Valve (2)		
PRVs (4)		
Hydrant (1)		
Backflow connectors (4)		
Total Task 2-Week 1-Section 1; Materials	8	
Task 3 - Construction - Week 1 - Section 1 - (1.) Button Rock		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 3-Week 1-Section 1; Trencher		10
Task 4 - Construction - Week 1 - Section 1 - (1.) Button Rock		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 4-Week 1-Section 1; Pipe welders and laborers		20
Task 5 - Construction - Week 1 - Section 1 - (1.) Button Rock		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 5-Week 1-Section 1; Backhoe with compactor		10
Sub-total Construction Week 1 - Section 1; Material hours	12	
Sub-total Construction Week 1 - Section 1; Labor hours		44
Total Construction Week 1 - Section 1; Material/Labor hours		
Sub-total Construction Week 1 - Section 1; Materials cost		
Sub-total Construction Week 1 - Section 1; Labor cost		
Total Construction Week 1 - Section 1; Construction cost		

Construction - Week 2 - Section 2 - (1.) Button Rock		
(1.) Button Rock (825 lf) - 4 meters, 1 hydrant		
Week 2 - Section 2 total hours	56 hrs	
Week 2 - Section 2 total working days	7 days	
Week 2 - Section 2 linear feet	825 lf	
Task 6 - Construction - Week 2 - Section 2 - (1.) Button Rock		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 6 - Week 2 - Section 2; Fuel, Tools, Barricades Traffi	4	4
Task 7 - Construction - Week 2 - Section 2 - (1.) Button Rock		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (825 lf)		
Brass fittings		
Connectors		
Meters (4)		
Valve (1)		
PRVs (4)		
Hydrant (1)		
Backflow connectors (4)		
Total Task 7 - Week 2 - Section 2; Materials	8	
Task 8 - Construction - Week 2 - Section 2 - (1.) Button Rock		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 8 - Week 2 - Section 2; Trencher		10
Task 9 - Construction - Week 2 - Section 2 - (1.) Button Rock		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 9 - Week 2 - Section 2; Pipe welders and laborers		20
Task 10 - Construction - Week 2 - Section 2 - (1.) Button Rock		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 10 - Week 2 - Section 2; Backhoe with compactor		10

Sub-total Construction Week 2 - Section 2; Materials hours	12	
Sub-total Construction Week 2 - Section 2; Labor hours		44
Total Construction Week 2 - Section 2; Material/Labor hours		
Sub-total Construction Week 2 - Section 2; Materials cost		
Sub-total Construction Week 2 - Section 2; Labor cost		
Total Construction Week 2 - Section 2; Construction cost		

Construction - Week 3 - Section 3 - (1.) Button Rock

(1.) Button Rock (825 lf) - 4 meters, 1 hydrant

Week 3 - Section 3 total hours	56 hrs	
Week 3 - Section 3 total working days	7 days	
Week 3 - Section 3 linear feet	825 lf	

Task 11 - Construction - Week 3 - Section 3 - (1.) Button Rock Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 11 - Week 3 - Section 3; Fuel, Tools, Barricades Traf	4	4

Task 12 - Construction - Week 3 - Section 3 - (1.) Button Rock Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (825lf)		
Brass fittings		
Connectors		
Meters (4)		
Valve (1)		
PRVs (4)		
Hydrant (1)		
Backflow connectors (4)		
Total Task 12 - Week 3 - Section 3; Materials	8	

Task 13 - Construction - Week 3 - Section 3 - (1.) Button Rock Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 13 - Week 3 - Section 3; Trencher		10

Task 14 - Construction - Week 3 - Section 3 - (1.) Button Rock Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 14 - Week 3 - Section 3; Pipe welders and laborers		20

Task 15 - Construction - Week 3 - Section 3 - (1.) Button Rock		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 15 - Week 3 - Section 3; Backhoe with compactor		10
Sub-total Construction Week 3 - Section 3; Materials hours	12	
Sub-total Construction Week 3 - Section 3; Labor hours		44
Total Construction Week 3 - Section 3; Materials/Labor hours		
Sub-total Construction Week 3 - Section 3; Materials cost		
Sub-total Construction Week 3 - Section 3; Labor cost		
Total Construction Week 3 - Section 3; Construction cost		

Construction - Week 4 - Section 4 - (1.) Button Rock		
(1.) Button Rock (825 lf) - 4 meters		
Week 4 - Section 4 total hours	56 hrs	
Week 4 - Section 4 total working days	7 days	
Week 4 - Section 4 linear feet	825 lf	

Task 16 - Construction - Week 4 - Section 4 - (1.) Button Rock		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 16 - Week 4 - Section 4; Fuel, Tools, Barricades Traf	4	4

Task 17 - Construction - Week 4 - Section 4 - (1.) Button Rock		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (825 lf)		
Brass fittings		
Connectors		
Meters (4)		
Valve (1)		
PRVs (4)		
Hydrant (0)		
Backflow connectors (4)		
Total Task 17 - Week 4 - Section 4; Materials	8	

Task 18 - Construction - Week 4 - Section 4 - (1.) Button Rock		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 18 - Week 4 - Section 4; Trencher		10

Task 19 - Construction -Week 4 - Section 4 - (1.) Button Rock		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours

Pipe welders and laborers cost per week		
Hydrant (0)		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 19 - Week 4 - Section 4; Pipe welders and laborers		20

Task 20 - Construction - Week 4 - Section 4 - (1.) Button Rock Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 20 - Week 4 - Section 4; Backhoe with compactor		10

Sub-total Construction Week 4 - Section 4; Materials hours	12	
Sub-total Construction Week 4 - Section 4; Labor hours		44
Total Construction Week 4 - Section 4; Materials/Labor hours		
Sub-total Construction Week 4 - Section 4; Materials cost		
Sub-total Construction Week 4 - Section 4; Labor cost		
Total Construction Week 4 - Section 4; Construction cost		

Total Materials hours	**48**	
Total Labor hours		**176**
Total Materials/Labor hours		
Total Materials cost		
Total Labor cost		
TOTAL Construction cost		

	linear feet	meters
Button Rock	3,300	16
Witchita	2,220	23
Cree Court	1,362	16
Meadows to Cherokee	3,036	9
Kiowa to Hopi	2,290	27
total	12,208	91

in Replacement Infrastructure Project

aggregate cost

Total materials

825 lf / section

back to top

Materials	Labor	Total
$ 400.00		$ 400.00
$ 200.00		$ 200.00
	$ 100.00	$ 100.00
	$ 300.00	$ 300.00
$ 600.00	$ 400.00	**$ 1,000.00**

Materials	Labor	Total
$ 4,125.00		$ 4,125.00
$ 764.00		$ 764.00
$ 764.00		$ 764.00
$ 9,000.00		$ 9,000.00
$ 600.00		$ 600.00
$ 900.00		$ 900.00
$ 892.00		$ 892.00
$ 1,919.80		$ 1,919.80
$ 18,964.80		**$ 18,964.80**

Materials	Labor	Total
	$ 20,000.00	$ 20,000.00
	$ 20,000.00	**$ 20,000.00**

Materials	Labor	Total
	$ 5,000.00	$ 5,000.00
	$ 2,000.00	$ 2,000.00
	$ 1,000.00	$ 1,000.00
	$ 1,000.00	$ 1,000.00
	$ 9,000.00	**$ 9,000.00**

Materials	Labor	Total
	$ 10,000.00	$ 10,000.00
	$ 10,000.00	**$ 10,000.00**

		56
$ 19,564.80		
	$ 39,400.00	
		$ 58,964.80

back to top

Materials	Labor	Total
$ 400.00		$ 400.00
$ 200.00		$ 200.00
	$ 100.00	$ 100.00
	$ 300.00	$ 300.00
$ 600.00	$ 400.00	**$ 1,000.00**

Materials	Labor	Total
$ 4,125.00		$ 4,125.00
$ 1,210.00		$ 1,210.00
$ 1,210.00		$ 1,210.00
$ 9,000.00		$ 9,000.00
$ 300.00		$ 300.00
$ 900.00		$ 900.00
$ 892.00		$ 892.00
$ 1,919.80		$ 1,919.80
$ 19,556.80		**$ 19,556.80**

Materials	Labor	Total
	$ 20,000.00	$ 20,000.00
	$ 20,000.00	**$ 20,000.00**

Materials	Labor	Total
	$ 6,000.00	$ 6,000.00
	$ -	$ -
	$ 1,000.00	$ 1,000.00
	$ 2,000.00	$ 2,000.00
	$ 9,000.00	**$ 9,000.00**

Materials	Labor	Total
	$ 10,000.00	$ 10,000.00
	$ 10,000.00	**$ 10,000.00**

					56
$	**20,156.80**				
		$	**39,400.00**		
				$	**59,556.80**

back to top

	Materials		Labor		Total
$	400.00			$	400.00
$	200.00			$	200.00
		$	100.00	$	100.00
		$	300.00	$	300.00
$	600.00	$	400.00	**$**	**1,000.00**

	Materials		Labor		Total
$	4,125.00			$	4,125.00
$	1,210.00			$	1,210.00
$	1,210.00			$	1,210.00
$	9,000.00			$	9,000.00
$	300.00			$	300.00
$	900.00			$	900.00
$	892.00			$	892.00
$	1,919.80			$	1,919.80
$	19,556.80			**$**	**19,556.80**

	Materials		Labor		Total
		$	20,000.00	$	20,000.00
		$	20,000.00	**$**	**20,000.00**

	Materials		Labor		Total
		$	6,000.00	$	6,000.00
		$	-	$	-
		$	1,000.00	$	1,000.00
		$	2,000.00	$	2,000.00
		$	9,000.00	**$**	**9,000.00**

Materials	Labor	Total
	$ 10,000.00	$ 10,000.00
	$ 10,000.00	**$ 10,000.00**

			56
$	**20,156.80**		
		$ 39,400.00	
			$ 59,556.80

back to top

Materials	Labor	Total
$ 400.00		$ 400.00
$ 200.00		$ 200.00
	$ 100.00	$ 100.00
	$ 300.00	$ 300.00
$ 600.00	$ 400.00	**$ 1,000.00**

Materials	Labor	Total
$ 4,125.00		$ 4,125.00
$ 1,210.00		$ 1,210.00
$ 1,210.00		$ 1,210.00
$ 9,000.00		$ 9,000.00
$ 300.00		$ 300.00
$ 900.00		$ 900.00
$ -		$ -
$ 1,919.80		$ 1,919.80
$ 18,664.80		**$ 18,664.80**

Materials	Labor	Total
	$ 20,000.00	$ 20,000.00
	$ 20,000.00	**$ 20,000.00**

Materials	Labor	Total

		$	6,000.00	$	6,000.00
		$	-	$	-
		$	1,000.00	$	1,000.00
		$	2,000.00	$	2,000.00
		$	9,000.00	**$**	**9,000.00**
	Materials		Labor		Total
		$	10,000.00	$	10,000.00
		$	10,000.00	**$**	**10,000.00**
					56
$	**19,264.80**				
		$	**39,400.00**		
				$	**58,664.80**
					224
$	**79,143.20**				
		$	**157,600.00**		
				$	**236,743.20**

back to top

valves	PVRs	hydrants	backflow connectors
5	16	3	16
4	23	1	23
4	16	1	16
4	9	2	9
4	27	2	27
21	91	9	91

(2.) Wichita (2,220 lf)

Detailed Budget Estimate

Date:	**10/31/2023**
Water Activity Name:	**Pinewood Springs Water District - Water Mai**
Grantee Name:	**Pinewood Springs Water District**

Infrastructure - Construction - Maintenance Project, replacing existing water main

(2.) Wichita (2,220 lf), 23 meters, 1 hydrant

Estimated working days for job length	28 days	
Estimated hours for job length		224 hrs
Estimated working days per Task-Week-Section	7 days	
Estimated hours per Task-Week-Section		56 hrs

aggregate cost - $83.00 * 2,220 lf	$	184,260.00	$	184,260.00
Proposal did not include; additional costs				
meters (23)	$	51,750.00		
PRVs (23)	$	5,175.00		
hydrant (1)	$	892.00		
backflow connectors (23)	$	11,038.85		
	$	68,855.85		

Materials:	quantity		total
Fuel		$	1,600.00
Tools		$	800.00
Brass fittings		$	4,840.00
Connectors		$	4,840.00
4" HDPE DR 11 pipe/ lf - $5.00 lf * (2,220 lf)	2,220 lf	$	11,100.00
meters - $2,250.00 * (23 qty)	23	$	51,750.00
valves - $300.00 * (4 qty)	4	$	1,200.00
PRVs - $225.00 * (23 qty)	23	$	5,175.00
hydrant - $892.00 * (1 qty)	1	$	892.00
backflow connectors - $479.95 * (23 qty)	23	$	11,038.85
		$	93,235.85

Construction - Week 1 - Section 1 - (2.) Wichita

(2.) Wichita (555 lf), 6 meters, 1 hydrant

Week 1 - Section 1; total hours	56 hrs
Week 1 - Section 1; total working days	7 days
Week 1 - Section 1; linear feet	555 lf

Task 1 - Construction - Week 1 - Section 1 - (2.) Wichita		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 1-Week 1-Section 1; Fuel, Tools, Barricades Traffic C	4	4

Task 2 - Construction - Week 1 - Section 1 - (2.) Wichita		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (555 lf)		
Brass fittings		
Connectors		
Meters (6)		
Valve (1)		
PRVs (6)		
Hydrant (1)		
Backflow connectors (6)		
Total Task 2-Week 1-Section 1; Materials	8	

Task 3 - Construction - Week 1 - Section 1 - (2.) Wichita		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 3-Week 1-Section 1; Trencher		14

Task 4 - Construction - Week 1 - Section 1 - (2.) Wichita		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 4-Week 1-Section 1; Pipe welders and laborers		16

Task 5 - Construction - Week 1 - Section 1 - (2.) Wichita		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 5-Week 1-Section 1; Backhoe with compactor		10

Sub-total Construction Week 1 - Section 1; Materials hours	12	
Sub-total Construction Week 1 - Section 1; Labor hours		44
Total Construction Week 1 - Section 1; Materials/Labor hours		
Sub-total Construction Week 1 - Section 1; Materials cost		
Sub-total Construction Week 1 - Section 1; Labor cost		
Total Construction Week 1 - Section 1; Construction cost		

Construction - Week 2 - Section 2 - (2.) Wichita

(2.) Wichita (555 lf), 6 meters		
Week 2 - Section 2 total working days	7 days	
Week 2 - Section 2 total hours	56 hrs	
Week 2 - Section 2 linear feet	555 lf	
Task 6 - Construction - Week 2 - Section 2 - (2.) Wichita		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 6 - Week 2 - Section 2; Fuel, Tools, Barricades Traffi	4	4
Task 7 - Construction - Week 2 - Section 2 - (2.) Wichita		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (555 lf)		
Brass fittings		
Connectors		
Meters (6)		
Valve (1)		
PRVs (6)		
Hydrant (0)		
Backflow connectors (6)		
Total Task 7 - Week 2 - Section 2; Materials	8	
Task 8 - Construction - Week 2 - Section 2 - (2.) Wichita		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 8 - Week 2 - Section 2; Trencher		14
Task 9 - Construction - Week 2 - Section 2 - (2.) Wichita		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 9 - Week 2 - Section 2; Pipe welders and laborers		16
Task 10 - Construction - Week 2 - Section 2 - (2.) Wichita		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 10 - Week 2 - Section 2; Backhoe with compactor		10
Sub-total Construction Week 2 - Section 2; Materials hours	12	
Sub-total Construction Week 2 - Section 2; Labor hours		44

Total Construction Week 2 - Section 2; Materials/Labor hours		
Sub-total Construction Week 2 - Section 2; Materials cost		
Sub-total Construction Week 2 - Section 2; Labor cost		
Total Construction Week 2 - Section 2; Construction cost		

Construction - Week 3 - Section 3 - (2.) Wichita		
(2.) Wichita (555 lf), 6 meters		
Week 3 - Section 3 total working days	7 days	
Week 3 - Section 3 total hours	56 hrs	
Week 3 - Section 3 linear feet	555 lf	
Task 11 - Construction - Week 3 - Section 3 - (2.) Wichita		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 11 - Week 3 - Section 3; Fuel, Tools, Barricades Traf	4	4
Task 12 - Construction - Week 3 - Section 3 - (2.) Wichita		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (555 lf)		
Brass fittings		
Connectors		
Meters (6)		
Valve (1)		
PRVs (6)		
Hydrant (0)		
Backflow connectors (6)		
Total Task 12 - Week 3 - Section 3; Materials	8	
Task 13 - Construction - Week 3 - Section 3 - (2.) Wichita		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 13 - Week 3 - Section 3; Trencher		14
Task 14 - Construction - Week 3 - Section 3 - (2.) Wichita		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 14 - Week 3 - Section 3; Pipe welders and laborers		16
Task 15 - Construction - Week 3 - Section 3 - (2.) Wichita		
Backhoe with compactor	Est. Materials hours	Est. Labor hours

Backhoe with compactor with operator		
Total Task 15 - Week 3 - Section 3; Backhoe with compactor		10

Sub-total Construction Week 3 - Section 3; Materials hours	12	
Sub-total Construction Week 3 - Section 3; Labor hours		44
Total Construction Week 3 - Section 3; Materials/Labor hours		
Sub-total Construction Week 3 - Section 3; Materials cost		
Sub-total Construction Week 3 - Section 3; Labor cost		
Total Construction Week 3 - Section 3; Construction cost		

Construction - Week 4 - Section 4 - (2.) Wichita

(2.) Wichita (555 lf), 5 meters

Week 4 - Section 4 total working days	7 days
Week 4 - Section 4 total hours	56 hrs
Week 4 - Section 4 linear feet	555 lf

Task 16 - Construction - Week 4 - Section 4 - (2.) Wichita Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 16 - Week 4 - Section 4; Fuel, Tools, Barricades Traf	4	4

Task 17 - Construction - Week 4 - Section 4 - (2.) Wichita Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (555 lf)		
Brass fittings		
Connectors		
Meters (5)		
Valve (1)		
PRVs (5)		
Hydrant (0)		
Backflow connectors (5)		
Total Task 17 - Week 4 - Section 4; Materials	8	

Task 18 - Construction - Week 4 - Section 4 - (2.) Wichita Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 18 - Week 4 - Section 4; Trencher		14

Task 19 - Construction -Week 4 - Section 4 - (2.) Wichita Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		

(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 19 - Week 4 - Section 4; Pipe welders and laborers		16

Task 20 - Construction - Week 4 - Section 4 - (2.) Wichita		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 20 - Week 4 - Section 4; Backhoe with compactor		10

Sub-total Construction Week 4 - Section 4; Materials hours	12	
Sub-total Construction Week 4 - Section 4; Labor hours		44
Total Construction Week 4 - Section 4; Materials/Labor hours		
Sub-total Construction Week 4 - Section 4; Materials cost		
Sub-total Construction Week 4 - Section 4; Labor cost		
Total Construction Week 4 - Section 4; Construction cost		

Total Materials hours	**48**	
Total Labor hours		**176**
Total Materials/Labor hours		
Total Materials cost		
Total Labor cost		
TOTAL Construction cost		

	linear feet	meters
Button Rock	3,300	16
Witchita	2,220	23
Cree Court	1,362	16
Meadows to Cherokee	3,036	9
Kiowa to Hopi	2,290	27
total	12,208	91

in Replacement Infrastructure Project

aggregate cost

back to top

	Materials		Labor		Total
$	400.00			$	400.00
$	200.00			$	200.00
		$	100.00	$	100.00
		$	300.00	$	300.00
$	600.00	$	400.00	**$**	**1,000.00**

	Materials		Labor		Total
$	2,775.00			$	2,775.00
$	1,210.00			$	1,210.00
$	1,210.00			$	1,210.00
$	13,500.00			$	13,500.00
$	300.00			$	300.00
$	1,350.00			$	1,350.00
$	892.00			$	892.00
$	2,879.70			$	2,879.70
$	24,116.70			**$**	**24,116.70**

	Materials		Labor		Total
		$	20,000.00	$	20,000.00
		$	20,000.00	**$**	**20,000.00**

	Materials		Labor		Total
		$	5,000.00	$	5,000.00
		$	2,000.00	$	2,000.00
		$	1,000.00	$	1,000.00
		$	1,000.00	$	1,000.00
		$	9,000.00	**$**	**9,000.00**

	Materials		Labor		Total
		$	10,000.00	$	10,000.00
		$	10,000.00	**$**	**10,000.00**

					56
$	**24,716.70**				
		$	**39,400.00**		
				$	**64,116.70**

back to top

Materials	Labor	Total
$ 400.00		$ 400.00
$ 200.00		$ 200.00
	$ 100.00	$ 100.00
	$ 300.00	$ 300.00
$ 600.00	$ 400.00	**$ 1,000.00**

Materials	Labor	Total
$ 2,775.00		$ 2,775.00
$ 1,210.00		$ 1,210.00
$ 1,210.00		$ 1,210.00
$ 13,500.00		$ 13,500.00
$ 300.00		$ 300.00
$ 1,350.00		$ 1,350.00
$ -		$ -
$ 2,879.70		$ 2,879.70
$ 23,224.70		**$ 23,224.70**

Materials	Labor	Total
	$ 20,000.00	$ 20,000.00
	$ 20,000.00	**$ 20,000.00**

Materials	Labor	Total
	$ 6,000.00	$ 6,000.00
	$ -	$ -
	$ 1,000.00	$ 1,000.00
	$ 2,000.00	$ 2,000.00
	$ 9,000.00	**$ 9,000.00**

Materials	Labor	Total
	$ 10,000.00	$ 10,000.00
	$ 10,000.00	**$ 10,000.00**

				56
$	**23,824.70**			
		$	**39,400.00**	
				$ 63,224.70

back to top

	Materials		Labor		Total
$	400.00			$	400.00
$	200.00			$	200.00
		$	100.00	$	100.00
		$	300.00	$	300.00
$	600.00	$	400.00	**$**	**1,000.00**

	Materials		Labor		Total
$	2,775.00			$	2,775.00
$	1,210.00			$	1,210.00
$	1,210.00			$	1,210.00
$	13,500.00			$	13,500.00
$	300.00			$	300.00
$	1,350.00			$	1,350.00
$	-			$	-
$	2,879.70			$	2,879.70
$	23,224.70			**$**	**23,224.70**

	Materials		Labor		Total
		$	20,000.00	$	20,000.00
		$	20,000.00	**$**	**20,000.00**

	Materials		Labor		Total
		$	6,000.00	$	6,000.00
		$	-	$	-
		$	1,000.00	$	1,000.00
		$	2,000.00	$	2,000.00
		$	9,000.00	**$**	**9,000.00**

	Materials		Labor		Total

	$ 10,000.00	$	10,000.00
	$ 10,000.00	**$**	**10,000.00**

			56
$	**23,824.70**		
	$ 39,400.00		
		$	**63,224.70**

back to top

	Materials		Labor		Total
$	400.00			$	400.00
$	200.00			$	-
		$	100.00	$	100.00
		$	300.00	$	300.00
$	600.00	$	400.00	**$**	**800.00**

	Materials		Labor		Total
$	2,775.00			$	2,775.00
$	1,210.00			$	1,210.00
$	1,210.00			$	1,210.00
$	11,250.00			$	11,250.00
$	300.00			$	300.00
$	1,125.00			$	1,125.00
$	-			$	-
$	2,399.75			$	2,399.75
$	20,269.75			**$**	**20,269.75**

	Materials		Labor		Total
		$	20,000.00	$	20,000.00
		$	20,000.00	**$**	**20,000.00**

	Materials		Labor		Total
		$	6,000.00	$	6,000.00
		$	-	$	-

		$	1,000.00	$	1,000.00
		$	2,000.00	$	2,000.00
		$	9,000.00	**$**	**9,000.00**
	Materials		Labor		Total
		$	10,000.00	$	10,000.00
		$	10,000.00	**$**	**10,000.00**
					56
$	**20,869.75**				
		$	**39,400.00**		
				$	**60,069.75**
					224
$	**93,235.85**				
		$	**157,600.00**		
				$	**250,835.85**

back to top

valves	PVRs	hydrants	backflow connectors
5	16	3	16
4	23	1	23
4	16	1	16
4	9	2	9
4	27	2	27
21	91	9	91

(3.) Cree Court (1,362 lf)

Detailed Budget Estimate

Date: **10/31/2023**

Water Activity Name: **Pinewood Springs Water District - Water I**

Grantee Name: **Pinewood Springs Water District**

Infrastructure - Construction - Maintenance Project, replacing existing water main

(3.) Cree Court (1,362 lf), 16 meters, 1 hydrant

Estimated working days for job length	28 days	
Estimated hours for job length		224 hrs
Estimated working days per Task-Week-Section	7 days	
Estimated hours per Task-Week-Section		56 hrs

aggregate cost - $83.00 * 1,362 lf	$	113,046.00	$	113,046.00
Proposal did not include; additional costs				
meters (16)	$	36,000.00		
PRVs (16)	$	3,600.00		
hydrant (1)	$	892.00		
backflow connectors (16)	$	7,679.20		
		$48,171.20		

Materials:	quantity		total
Fuel		$	1,600.00
Tools		$	800.00
Brass fittings		$	2,275.00
Connectors		$	2,275.00
4" HDPE DR 11 pipe/ lf - $5.00 lf * (1362 lf)	1,362 lf	$	6,810.00
meters - $2,250.00 * (16 qty)	16	$	36,000.00
valves - $300.00 * (4 qty)	4	$	1,200.00
PRVs - $225.00 * (16 qty)	16	$	3,600.00
hydrant - $892.00 * (1 qty)	1	$	892.00
backflow connectors - $479.95 * (16 qty)	16	$	7,679.20
			$63,131.20

Construction - Week 1 - Section 1 - (3.) Cree Court

(3.) Cree Court (340 lf), 4 meters, 1 hydrant

Week 1 - Section 1; total hours	56 hrs
Week 1 - Section 1; total working days	7 days
Week 1 - Section 1; linear feet	340 lf

Task 1 - Construction - Week 1 - Section 1 - (3.) Cree Court		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 1-Week 1-Section 1; Fuel, Tools, Barricades Traffic C	4	4

Task 2 - Construction - Week 1 - Section 1 - (3.) Cree Court		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (340 lf)		
Brass fittings		
Connectors		
Meters (4)		
Valve (1)		
PRVs (4)		
Hydrant (1)		
Backflow connectors (4)		
Total Task 2-Week 1-Section 1; Materials	8	

Task 3 - Construction - Week 1 - Section 1 - (3.) Cree Court		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 3-Week 1-Section 1; Trencher		10

Task 4 - Construction - Week 1 - Section 1 - (3.) Cree Court		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 4-Week 1-Section 1; Pipe welders and laborers		20

Task 5 - Construction - Week 1 - Section 1 - (3.) Cree Court		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 5-Week 1-Section 1; Backhoe with compactor		10

Sub-total Construction Week 1 - Section 1; Materials hours	12	
Sub-total Construction Week 1 - Section 1; Labor hours		44
Total Construction Week 1 - Section 1; Materials/Labor hours		
Sub-total Construction Week 1 - Section 1; Materials cost		
Sub-total Construction Week 1 - Section 1; Labor cost		
Total Construction Week 1 - Section 1; Construction cost		

Construction - Week 2 - Section 2 - (3.) Cree Court

(3.) Cree Court (340 lf), 4 meters		
Week 2 - Section 2; total hours	56 hrs	
Week 2 - Section 2; total working days	7 days	
Week 2 - Section 2; linear feet	340 lf	
Task 6 - Construction - Week 2 - Section 2 - (3.) Cree Court		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 6 - Week 2 - Section 2; Fuel, Tools, Barricades Traffi	4	4
Task 7 - Construction - Week 2 - Section 2 - (3.) Cree Court		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (340 lf)		
Brass fittings		
Connectors		
Meters (4)		
Valve (1)		
PRVs (4)		
Hydrant (0)		
Backflow connectors (4)		
Total Task 7 - Week 2 - Section 2; Materials	8	
Task 8 - Construction - Week 2 - Section 2 - (3.) Cree Court		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 8 - Week 2 - Section 2; Trencher		10
Task 9 - Construction - Week 2 - Section 2 - (3.) Cree Court		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 9 - Week 2 - Section 2; Pipe welders and laborers		20
Task 10 - Construction - Week 2 - Section 2 - (3.) Cree Court		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 10 - Week 2 - Section 2; Backhoe with compactor		10
Sub-total Construction Week 2 - Section 2; Materials hours	12	
Sub-total Construction Week 2 - Section 2; Labor hours		44

Total Construction Week 2 - Section 2; Materials/Labor hours		
Sub-total Construction Week 2 - Section 2; Materials cost		
Sub-total Construction Week 2 - Section 2; Labor cost		
Total Construction Week 2 - Section 2; Construction cost		

Construction - Week 3 - Section 3 - (3.) Cree Court		
(3.) Cree Court (340 lf), 4 meters		
Week 3 - Section 3; total hours	56 hrs	
Week 3 - Section 3; total working days	7 days	
Week 3 - Section 3; linear feet	340 lf	

Task 11 - Construction - Week 3 - Section 3 - (3.) Cree Court		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 11 - Week 3 - Section 3; Fuel, Tools, Barricades Traf	4	4

Task 12 - Construction - Week 3 - Section 3 - (3.) Cree Court		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (340 lf)		
Brass fittings		
Connectors		
Meters (4)		
Valve (1)		
PRVs (4)		
Hydrant (0)		
Backflow connectors (4)		
Total Task 12 - Week 3 - Section 3; Materials	8	

Task 13 - Construction - Week 3 - Section 3 - (3.) Cree Court		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 13 - Week 3 - Section 3; Trencher		10

Task 14 - Construction - Week 3 - Section 3 - (3.) Cree Court		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 14 - Week 3 - Section 3; Pipe welders and laborers		20

Task 15 - Construction - Week 3 - Section 3 - (3.) Cree Court		
Backhoe with compactor	Est. Materials hours	Est. Labor hours

Backhoe with compactor with operator			
Total Task 15 - Week 3 - Section 3; Backhoe with compactor			10
Sub-total Construction Week 3 - Section 3; Materials hours	12		
Sub-total Construction Week 3 - Section 3; Labor hours			44
Total Construction Week 3 - Section 3; Materials/Labor hours			
Sub-total Construction Week 3 - Section 3; Materials cost			
Sub-total Construction Week 3 - Section 3; Labor cost			
Total Construction Week 3 - Section 3; Construction cost			

Construction - Week 4 - Section 4 - (3.) Cree Court

(3.) Cree Court (342 lf), 4 meters

Week 4 - Section 4; total hours	56 hrs	
Week 4 - Section 4; total working days	7 days	
Week 4 - Section 4; linear feet	340 lf	

Task 16 - Construction - Week 4 - Section 4 - (3.) Cree Court		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 16 - Week 4 - Section 4; Fuel, Tools, Barricades Traf	4	4

Task 17 - Construction - Week 4 - Section 4 - (3.) Cree Court		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (342 lf)		
Brass fittings		
Connectors		
Meters (4)		
Valve (1)		
PRVs (4)		
Hydrant (0)		
Backflow connectors (4)		
Total Task 17 - Week 4 - Section 4; Materials	8	

Task 18 - Construction - Week 4 - Section 4 - (3.) Cree Court		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 18 - Week 4 - Section 4; Trencher		10

Task 19 - Construction -Week 4 - Section 4 - (3.) Cree Court		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		

(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 19 - Week 4 - Section 4; Pipe welders and laborers		20

Task 20 - Construction - Week 4 - Section 4 - (3.) Cree Court		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 20 - Week 4 - Section 4; Backhoe with compactor		10

Sub-total Construction Week 4 - Section 4; Materials hours	12	
Sub-total Construction Week 4 - Section 4; Labor hours		44
Total Construction Week 4 - Section 4; Materials/Labor hours		
Sub-total Construction Week 4 - Section 4; Materials cost		
Sub-total Construction Week 4 - Section 4; Labor cost		
Total Construction Week 4 - Section 4; Construction cost		

Total Materials hours	**48**	
Total Labor hours		**176**
Total Materials/Labor hours		
Total Materials cost		
Total Labor cost		
TOTAL Construction cost		

	linear feet	meters
Button Rock	3,300	16
Witchita	2,220	23
Cree Court	1,362	16
Meadows to Cherokee	3,036	9
Kiowa to Hopi	2,290	27
total	12,208	91

Main Replacement Infrastructure Project

aggregate cost

340 lf / section

back to top

Materials	Labor	Total
$ 400.00		$ 400.00
$ 200.00		$ 200.00
	$ 100.00	$ 100.00
	$ 300.00	$ 300.00
$ 600.00	$ 400.00	**$ 1,000.00**

Materials	Labor	Total
$ 1,700.00		$ 1,700.00
$ 568.75		$ 568.75
$ 568.75		$ 568.75
$ 9,000.00		$ 9,000.00
$ 300.00		$ 300.00
$ 900.00		$ 900.00
$ 892.00		$ 892.00
$ 1,919.80		$ 1,919.80
$ 15,849.30		**$ 15,849.30**

Materials	Labor	Total
	$ 20,000.00	$ 20,000.00
	$ 20,000.00	**$ 20,000.00**

Materials	Labor	Total
	$ 5,000.00	$ 5,000.00
	$ 2,000.00	$ 2,000.00
	$ 1,000.00	$ 1,000.00
	$ 1,000.00	$ 1,000.00
	$ 9,000.00	**$ 9,000.00**

Materials	Labor	Total
	$ 10,000.00	$ 10,000.00
	$ 10,000.00	**$ 10,000.00**

		56
$ 16,449.30		
	$ 39,400.00	
		$ 55,849.30

back to top

Materials	Labor	Total
$ 400.00		$ 400.00
$ 200.00		$ 200.00
	$ 100.00	$ 100.00
	$ 300.00	$ 300.00
$ 600.00	$ 400.00	**$ 1,000.00**

Materials	Labor	Total
$ 1,700.00		$ 1,700.00
$ 568.75		$ 568.75
$ 568.75		$ 568.75
$ 9,000.00		$ 9,000.00
$ 300.00		$ 300.00
$ 900.00		$ 900.00
$ -		$ -
$ 1,919.80		$ 1,919.80
$ 14,957.30		**$ 14,957.30**

Materials	Labor	Total
	$ 20,000.00	$ 20,000.00
	$ 20,000.00	**$ 20,000.00**

Materials	Labor	Total
	$ 6,000.00	$ 6,000.00
	$ -	$ -
	$ 1,000.00	$ 1,000.00
	$ 2,000.00	$ 2,000.00
	$ 9,000.00	**$ 9,000.00**

Materials	Labor	Total
	$ 10,000.00	$ 10,000.00
	$ 10,000.00	**$ 10,000.00**

					56
$	**15,557.30**				
		$	**39,400.00**		
				$	**54,957.30**

back to top

	Materials		Labor		Total
$	400.00			$	400.00
$	200.00			$	200.00
		$	100.00	$	100.00
		$	300.00	$	300.00
$	600.00	$	400.00	**$**	**1,000.00**

	Materials		Labor		Total
$	1,700.00			$	1,700.00
$	568.75			$	568.75
$	568.75			$	568.75
$	9,000.00			$	9,000.00
$	300.00			$	300.00
$	900.00			$	900.00
$	-			$	-
$	1,919.80			$	1,919.80
$	14,957.30			**$**	**14,957.30**

	Materials		Labor		Total
		$	20,000.00	$	20,000.00
		$	20,000.00	**$**	**20,000.00**

	Materials		Labor		Total
		$	6,000.00	$	6,000.00
		$	-	$	-
		$	1,000.00	$	1,000.00
		$	2,000.00	$	2,000.00
		$	9,000.00	**$**	**9,000.00**

	Materials		Labor		Total

		$	10,000.00	$	10,000.00
		$	10,000.00	**$**	**10,000.00**

					56
$	**15,557.30**				
		$	**39,400.00**		
				$	**54,957.30**

back to top

	Materials		Labor		Total
$	400.00			$	400.00
$	200.00			$	200.00
		$	100.00	$	100.00
		$	300.00	$	300.00
$	600.00	$	400.00	**$**	**1,000.00**

	Materials		Labor		Total
$	1,710.00			$	1,710.00
$	568.75			$	568.75
$	568.75			$	568.75
$	9,000.00			$	9,000.00
$	300.00			$	300.00
$	900.00			$	900.00
$	-			$	-
$	1,919.80			$	1,919.80
$	14,967.30			**$**	**14,967.30**

	Materials		Labor		Total
		$	20,000.00	$	20,000.00
		$	20,000.00	**$**	**20,000.00**

	Materials		Labor		Total
		$	6,000.00	$	6,000.00
		$	-	$	-

		$	1,000.00	$	1,000.00
		$	2,000.00	$	2,000.00
		$	9,000.00	**$**	**9,000.00**
	Materials		Labor		Total
		$	10,000.00	$	10,000.00
		$	10,000.00	**$**	**10,000.00**
					12
$	**15,567.30**				
		$	**39,400.00**		
				$	**54,967.30**
					224
$	**63,131.20**				
		$	**157,600.00**		
				$	**220,731.20**

back to top

valves	PVRs	hydrants	backflow connectors
5	16	3	16
4	23	1	23
4	16	1	16
4	9	2	9
4	27	2	27
21	91	9	91

(4.) Meadows to Cherokee (3,036 lf)

Detailed Budget Estimate

Date:	**10/31/2023**
Water Activity Name:	**Pinewood Springs Water District - Water I**
Grantee Name:	**Pinewood Springs Water District**

Infrastructure - Construction - Maintenance Project, replacing existing water main

(4.) Meadows to Cherokee (3,036 lf), 9 meters, 2 hydrants

Estimated working days for job length	48 days	
Estimated hours for job length		384 hrs
Estimated working days per Task-Week-Section	7 days	
Estimated hours per Task-Week-Section		56 hrs

aggregate cost - $83.00 * 3,036 lf	$251,988.00	$251,988.00
Proposal did not include; additional costs		
meters (9)	$20,250.00	
PRVs (9)	$2,025.00	
hydrants (2)	$1,784.00	
backflow connectors (9)	$4,319.55	
	$28,378.55	

Materials:	quantity		total
Fuel		$	1,600.00
Tools		$	800.00
Brass fittings		$	2,852.00
Connectors		$	2,852.00
4" HDPE DR 11 pipe/ lf - $5.00 lf * (3,036 lf)	3,036 lf	$	15,180.00
meters - $2,250.00 * (9 qty)	9	$	20,250.00
valves - $300.00 * (4 qty)	4	$	1,200.00
PRVs - $225.00 * (9 qty)	9	$	2,025.00
hydrants-$892.00 * (2 qty)	2	$	1,784.00
backflow connectors - $479.95 * (9 qty)	9	$	4,319.55
			$52,862.55

Construction - Week 1 - Section 1 - (4.) Meadows to Cherokee

(4.) Meadows to Cherokee (759 lf), 3 meters, 1 hydrant

Week 1 - Section 1; total hours	56 hrs
Week 1 - Section 1; total working days	7 days
Week 1 - Section 1; linear feet	759 lf

Task 1 - Construction - Week 1 - Section 1 - (4.) Meadows to Cherokee		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 1-Week 1-Section 1; Fuel, Tools, Barricades Traffic C	4	4

Task 2 - Construction - Week 1 - Section 1 - (4.) Meadows to Cherokee		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (759 lf)		
Brass fittings		
Connectors		
Meters (3)		
Valve (1)		
PRVs (3)		
Hydrant (1)		
Backflow connectors (3)		
Total Task 2-Week 1-Section 1; Materials	8	

Task 3 - Construction - Week 1 - Section 1 - (4.) Meadows to Cherokee		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 3-Week 1-Section 1; Trencher		10

Task 4 - Construction - Week 1 - Section 1 - (4.) Meadows to Cherokee		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 4-Week 1-Section 1; Pipe welders and laborers		20

Task 5 - Construction - Week 1 - Section 1 - (4.) Meadows to Cherokee		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 5-Week 1-Section 1; Backhoe with compactor		10

Sub-total Construction Week 1 - Section 1; Materials hours	12	
Sub-total Construction Week 1 - Section 1; Labor hours		44
Total Construction Week 1 - Section 1; Materials/Labor hours		
Sub-total Construction Week 1 - Section 1; Materials cost		
Sub-total Construction Week 1 - Section 1; Labor cost		
Total Construction Week 1 - Section 1; Construction cost		

Construction - Week 2 - Section 2 - (4.) Meadows to Cherokee

(4.) Meadows to Cherokee (759 lf), 3 meters, 1 hydrant		
Week 2 - Section 2; total hours	56 hrs	
Week 2 - Section 2; total working days	7 days	
Week 2 - Section 2; linear feet	759 lf	
Task 6 - Construction - Week 2 - Section 2 - (4.) Meadows to Cherokee		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 6 - Week 2 - Section 2; Fuel, Tools, Barricades Traffi	4	4
Task 7 - Construction - Week 2 - Section 2 -(4.) Meadows to Cherokee		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (759 lf)		
Brass fittings		
Connectors		
Meters (3)		
Valve (1)		
PRVs (3)		
Hydrant (1)		
Backflow connectors (3)		
Total Task 7 - Week 2 - Section 2; Materials	8	
Task 8 - Construction - Week 2 - Section 2 - (4.) Meadows to Cherokee		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 8 - Week 2 - Section 2; Trencher		10
Task 9 - Construction - Week 2 - Section 2 - (4.) Meadows to Cherokee		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 9 - Week 2 - Section 2; Pipe welders and laborers		20
Task 10 - Construction - Week 2 - Section 2 - (4.) Meadows to Cherokee		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 10 - Week 2 - Section 2; Backhoe with compactor		10
Sub-total Construction Week 2 - Section 2; Materials hours	12	
Sub-total Construction Week 2 - Section 2; Labor hours		44

Total Construction Week 2 - Section 2; Materials/Labor hours		
Sub-total Construction Week 2 - Section 2; Materials cost		
Sub-total Construction Week 2 - Section 2; Labor cost		
Total Construction Week 2 - Section 2; Construction cost		

Construction - Week 3 - Section 3 - (4.) Meadows to Cherokee

(4.) Meadows to Cherokee (759 lf), 2 meters

Week 3 - Section 3; total hours	56 hrs
Week 3 - Section 3; total working days	7 days
Week 3 - Section 3; linear feet	759 lf

Task 11 - Construction - Week 3 - Section 3 - (4.) Meadows to Cherokee		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 11 - Week 3 - Section 3; Fuel, Tools, Barricades Traf	4	4

Task 12 - Construction - Week 3 - Section 3 - (4.) Meadows to Cherokee		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (759 lf)		
Brass fittings		
Connectors		
Meters (2)		
Valve (1)		
PRVs (2)		
Hydrant (0)		
Backflow connectors (2)		
Total Task 12 - Week 3 - Section 3; Materials	8	

Task 13 - Construction - Week 3 - Section 3 - (4.) Meadows to Cherokee		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 13 - Week 3 - Section 3; Trencher		10

Task 14 - Construction - Week 3 - Section 3 - (4.) Meadows to Cherokee		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 14 - Week 3 - Section 3; Pipe welders and laborers		20

Task 15 - Construction - Week 3 - Section 3 - (4.) Meadows to Cherokee		
Backhoe with compactor	Est. Materials hours	Est. Labor hours

Backhoe with compactor with operator		
Total Task 15 - Week 3 - Section 3; Backhoe with compactor		10
Sub-total Construction Week 3 - Section 3; Materials hours	12	
Sub-total Construction Week 3 - Section 3; Labor hours		44
Total Construction Week 3 - Section 3; Materials/Labor hours		
Sub-total Construction Week 3 - Section 3; Materials cost		
Sub-total Construction Week 3 - Section 3; Labor cost		
Total Construction Week 3 - Section 3; Construction cost		

Construction - Week 4 - Section 4 - (4.) Meadows to Cherokee

(4.) Meadows to Cherokee (759 lf), 1 meter

Week 4 - Section 4; total hours	56 hrs
Week 4 - Section 4; total working days	7 days
Week 4 - Section 4; linear feet	759 lf

Task 16 - Construction - Week 4 - Section 4 - (4.) Meadows to Cherokee		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 16 - Week 4 - Section 4; Fuel, Tools, Barricades Traf	4	4

Task 17 - Construction - Week 4 - Section 4 - (4.) Meadows to Cherokee		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (759 lf)		
Brass fittings		
Connectors		
Meters (1)		
Valve (1)		
PRVs (1)		
Hydrant (0)		
Backflow connectors (1)		
Total Task 17 - Week 4 - Section 4; Materials	8	

Task 18 - Construction - Week 4 - Section 4 - (4.) Meadows to Cherokee		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 18 - Week 4 - Section 4; Trencher		10

Task 19 - Construction -Week 4 - Section 4 - (4.) Meadows to Cherokee		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		

(1) mainline valve installed
pneumatic pressure test of new pipeline segments
Total Task 19 - Week 4 - Section 4; Pipe welders and laborers 20

Task 20 - Construction - Week 4 - Section 4 - (4.) Meadows to Cherokee		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 20 - Week 4 - Section 4; Backhoe with compactor		10

Sub-total Construction Week 4 - Section 4; Materials hours	12	
Sub-total Construction Week 4 - Section 4; Labor hours		44
Total Construction Week 4 - Section 4; Materials/Labor hours		
Sub-total Construction Week 4 - Section 4; Materials cost		
Sub-total Construction Week 4 - Section 4; Labor cost		
Total Construction Week 4 - Section 4; Construction cost		

Total Materials hours	**48**	
Total Labor hours		**176**
Total Materials/Labor hours		
Total Materials cost		
Total Labor cost		
TOTAL Construction cost		

	linear feet	meters
Button Rock	3,300	16
Witchita	2,220	23
Cree Court	1,362	16
Meadows to Cherokee	3,036	9
Kiowa to Hopi	2,290	27
total	12,208	91

Main Replacement Infrastructure Project

aggregate cost

759 lf / section

back to top

Materials	Labor	Total
$ 400.00		$ 400.00
$ 200.00		$ 200.00
	$ 100.00	$ 100.00
	$ 300.00	$ 300.00
$ 600.00	$ 400.00	**$ 1,000.00**

Materials	Labor	Total
$ 3,795.00		$ 3,795.00
$ 713.00		$ 713.00
$ 713.00		$ 713.00
$ 6,750.00		$ 6,750.00
$ 300.00		$ 300.00
$ 675.00		$ 675.00
$ 892.00		$ 892.00
$ 1,439.85		$ 1,439.85
$ 15,277.85		**$ 15,277.85**

Materials	Labor	Total
	$ 30,000.00	$ 30,000.00
	$ 30,000.00	**$ 30,000.00**

Materials	Labor	Total
	$ 5,000.00	$ 5,000.00
	$ 2,000.00	$ 2,000.00
	$ 1,000.00	$ 1,000.00
	$ 1,000.00	$ 1,000.00
	$ 9,000.00	**$ 9,000.00**

Materials	Labor	Total
	$ 15,000.00	$ 15,000.00
	$ 15,000.00	**$ 15,000.00**

		56
$ 15,877.85		
	$ 54,400.00	
		$ 70,277.85

back to top

Materials	Labor	Total
$ 400.00		$ 400.00
$ 200.00		$ 200.00
	$ 100.00	$ 100.00
	$ 300.00	$ 300.00
$ 600.00	$ 400.00	**$ 1,000.00**

Materials	Labor	Total
$ 3,795.00		$ 3,795.00
$ 713.00		$ 713.00
$ 713.00		$ 713.00
$ 6,750.00		$ 6,750.00
$ 300.00		$ 300.00
$ 675.00		$ 675.00
$ 892.00		$ 892.00
$ 1,439.85		$ 1,439.85
$ 15,277.85		**$ 15,277.85**

Materials	Labor	Total
	$ 30,000.00	$ 30,000.00
	$ 30,000.00	**$ 30,000.00**

Materials	Labor	Total
	$ 5,000.00	$ 5,000.00
	$ 2,000.00	$ 2,000.00
	$ 1,000.00	$ 1,000.00
	$ 1,000.00	$ 1,000.00
	$ 9,000.00	**$ 9,000.00**

Materials	Labor	Total
	$ 15,000.00	$ 15,000.00
	$ 15,000.00	**$ 15,000.00**

					56
$	**15,877.85**				
		$	**54,400.00**		
				$	**70,277.85**

back to top

	Materials		Labor		Total
$	400.00			$	400.00
$	200.00			$	200.00
		$	100.00	$	100.00
		$	300.00	$	300.00
$	600.00	$	400.00	**$**	**1,000.00**

	Materials		Labor		Total
$	3,795.00			$	3,795.00
$	713.00			$	713.00
$	713.00			$	713.00
$	4,500.00			$	4,500.00
$	300.00			$	300.00
$	450.00			$	450.00
$	-			$	-
$	959.90			$	959.90
$	11,430.90			**$**	**11,430.90**

	Materials		Labor		Total
		$	30,000.00	$	30,000.00
		$	30,000.00	**$**	**30,000.00**

	Materials		Labor		Total
		$	5,000.00	$	5,000.00
		$	-	$	-
		$	1,000.00	$	1,000.00
		$	1,000.00	$	1,000.00
		$	7,000.00	**$**	**7,000.00**

	Materials		Labor		Total

		$	15,000.00	$	15,000.00
		$	15,000.00	**$**	**15,000.00**
					56
$	**12,030.90**				
		$	**52,400.00**		
				$	**64,430.90**

back to top

	Materials		Labor		Total
$	400.00			$	400.00
$	200.00			$	200.00
		$	100.00	$	100.00
		$	300.00	$	300.00
$	600.00	$	400.00	**$**	**1,000.00**

	Materials		Labor		Total
$	3,795.00			$	3,795.00
$	713.00			$	713.00
$	713.00			$	713.00
$	2,250.00			$	2,250.00
$	300.00			$	300.00
$	225.00			$	225.00
$	-			$	-
$	479.95			$	479.95
$	8,475.95			**$**	**8,475.95**

	Materials		Labor		Total
		$	30,000.00	$	30,000.00
		$	30,000.00	**$**	**30,000.00**

	Materials		Labor		Total
		$	5,000.00	$	5,000.00
		$	-	$	-

		$	1,000.00	$	1,000.00
		$	1,000.00	$	1,000.00
		$	7,000.00	**$**	**7,000.00**
	Materials		Labor		Total
		$	15,000.00	$	15,000.00
		$	15,000.00	**$**	**15,000.00**
$	**9,075.95**				**56**
		$	**52,400.00**		
				$	**61,475.95**
					224
$	**52,862.55**				
		$	**161,200.00**		
				$	**214,062.55**

back to top

valves	PVRs	hydrants	backflow connectors
5	16	3	16
4	23	1	23
4	16	1	16
4	9	2	9
4	27	2	27
21	91	9	91

(5.) Kiowa Hopi (2,290 lf)

Detailed Budget Estimate

Date:	**10/31/2023**
Water Activity Name:	**Pinewood Springs Water District - Water M**
Grantee Name:	**Pinewood Springs Water District**

Infrastructure - Construction - Maintenance Project, replacing existing water main

(5.) Kiowa Hopi (2,290 lf), 27 meters, 2 hydrants

Estimated working days for job length	28 days	
Estimated hours for job length		224 hrs
Estimated working days per Task-Week-Section	7 days	
Estimated hours per Task-Week-Section		56 hrs

aggregate cost - $83.00 * 2,290 lf	$	190,070.00	$	190,070.00
Proposal did not include; additional costs				
meters (27)	$	60,750.00		
PRVs (27)	$	6,075.00		
hydrants (2)	$	1,784.00		
backflow connectors (27)	$	12,958.65		
		$81,567.65		

Materials:	quantity		total
Fuel		$	1,600.00
Tools		$	800.00
Brass fittings		$	3,056.00
Connectors		$	3,056.00
4" HDPE DR 11 pipe/ lf - $5.00 lf * (2,290 lf)	2290 lf	$	11,450.00
meters - $2,250.00 * (27 qty)	27	$	60,750.00
valves - $300.00 * (4 qty)	4	$	1,200.00
PRVs - $225.00 * (27 qty)	27	$	6,075.00
hydrants-$892.00 * (2 qty)	2	$	1,784.00
backflow connectors - $479.95 * (27 qty)	27	$	12,958.65
			$102,729.65

Construction - Week 1 - Section 1 - (5.) Kiowa Hopi

(5.) Kiowa Hopi (573 lf), 7 meters, 1 hydrant

Week 1 - Section 1; total hours	56 hrs
Week 1 - Section 1; total working days	7 days
Week 1 - Section 1; linear feet	573 lf

Task 1 - Construction - Week 1 - Section 1 - (5.) Kiowa Hopi		
Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 1-Week 1-Section 1; Fuel, Tools, Barricades Traffic C	4	4

Task 2 - Construction - Week 1 - Section 1 - (5.) Kiowa Hopi		
Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (573 lf)		
Brass fittings		
Connectors		
Meters (7)		
Valve (1)		
PRVs (7)		
Hydrant (1)		
Backflow connectors (7)		
Total Task 2-Week 1-Section 1; Materials	8	

Task 3 - Construction - Week 1 - Section 1 - (5.) Kiowa Hopi		
Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 3-Week 1-Section 1; Trencher		14

Task 4 - Construction - Week 1 - Section 1 - (5.) Kiowa Hopi		
Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 4-Week 1-Section 1; Pipe welders and laborers		16

Task 5 - Construction - Week 1 - Section 1 - (5.) Kiowa Hopi		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 5-Week 1-Section 1; Backhoe with compactor		10

Sub-total Construction Week 1 - Section 1; Materials hours	12	
Sub-total Construction Week 1 - Section 1; Labor hours		44
Total Construction Week 1 - Section 1; Materials/Labor hours		
Sub-total Construction Week 1 - Section 1; Materials cost		
Sub-total Construction Week 1 - Section 1; Labor cost		
Total Construction Week 1 - Section 1; Construction cost		

Construction - Week 2 - Section 2 - (5.) Kiowa Hopi

(5.) Kiowa Hopi (573 lf), 7 meters, 1 hydrant		
Week 2 - Section 2; total hours	56 hrs	
Week 2 - Section 2; total working days	7 days	
Week 2 - Section 2; linear feet	573 lf	
Task 6 - Construction - Week 2 - Section 2 - (5.) Kiowa Hopi Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 6 - Week 2 - Section 2; Fuel, Tools, Barricades Traffi	4	4
Task 7 - Construction - Week 2 - Section 2 - (5.) Kiowa Hopi Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (573 lf)		
Brass fittings		
Connectors		
Meters (7)		
Valve (1)		
PRVs (7)		
Hydrant (1)		
Backflow connectors (7)		
Total Task 7 - Week 2 - Section 2; Materials	8	
Task 8 - Construction - Week 2 - Section 2 - (5.) Kiowa Hopi Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 8 - Week 2 - Section 2; Trencher		14
Task 9 - Construction - Week 2 - Section 2 - (5.) Kiowa Hopi Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 9 - Week 2 - Section 2; Pipe welders and laborers		16
Task 10 - Construction - Week 2 - Section 2 - (5.) Kiowa Hopi Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 10 - Week 2 - Section 2; Backhoe with compactor		10
Sub-total Construction Week 2 - Section 2; Materials hours	12	
Sub-total Construction Week 2 - Section 2; Labor hours		44

Total Construction Week 2 - Section 2; Materials/Labor hours		
Sub-total Construction Week 2 - Section 2; Materials cost		
Sub-total Construction Week 2 - Section 2; Labor cost		
Total Construction Week 2 - Section 2; Construction cost		

Construction - Week 3 - Section 3 - (5.) Kiowa Hopi

(5.) Kiowa Hopi (573 lf), 7 meters

Week 3 - Section 3; total hours	56 hrs
Week 3 - Section 3; total working days	7 days
Week 3 - Section 3; linear feet	573 lf

Task 11 - Construction - Week 3 - Section 3 - (5.) Kiowa Hopi Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 11 - Week 3 - Section 3; Fuel, Tools, Barricades Traf	4	4

Task 12 - Construction - Week 3 - Section 3 - (5.) Kiowa Hopi Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (573 lf)		
Brass fittings		
Connectors		
Meters (7)		
Valve (1)		
PRVs (7)		
Hydrant (0)		
Backflow connectors (7)		
Total Task 12 - Week 3 - Section 3; Materials	8	

Task 13 - Construction - Week 3 - Section 3 - (5.) Kiowa Hopi Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 13 - Week 3 - Section 3; Trencher		14

Task 14 - Construction - Week 3 - Section 3 - (5.) Kiowa Hopi Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		
(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 14 - Week 3 - Section 3; Pipe welders and laborers		16

Task 15 - Construction - Week 3 - Section 3 - (5.) Kiowa Hopi Backhoe with compactor	Est. Materials hours	Est. Labor hours

Backhoe with compactor with operator			
Total Task 15 - Week 3 - Section 3; Backhoe with compactor			10
Sub-total Construction Week 3 - Section 3; Materials hours	12		
Sub-total Construction Week 3 - Section 3; Labor hours			44
Total Construction Week 3 - Section 3; Materials/Labor hours			
Sub-total Construction Week 3 - Section 3; Materials cost			
Sub-total Construction Week 3 - Section 3; Labor cost			
Total Construction Week 3 - Section 3; Construction cost			

Construction - Week 4 - Section 4 - (5.) Kiowa Hopi

(5.) Kiowa Hopi (571 lf), 7 meters

Week 4 - Section 4; total hours	56 hrs
Week 4 - Section 4; total working days	7 days
Week 4 - Section 4; linear feet	571 lf

Task 16 - Construction - Week 4 - Section 4 - (5.) Kiowa Hopi Fuel, Tools, Barricades Traffic Control	Est. Materials hours	Est. Labor hours
Fuel		
Tools		
Locate wire and slash tape		
Barricades traffic control		
Total Task 16 - Week 4 - Section 4; Fuel, Tools, Barricades Traf	4	4

Task 17 - Construction - Week 4 - Section 4 - (5.) Kiowa Hopi Materials	Est. Materials hours	Est. Labor hours
4" HDPE DR 11 pipe (571 lf)		
Brass fittings		
Connectors		
Meters (6)		
Valve (1)		
PRVs (6)		
Hydrant (0)		
Backflow connectors (6)		
Total Task 17 - Week 4 - Section 4; Materials	8	

Task 18 - Construction - Week 4 - Section 4 - (5.) Kiowa Hopi Trencher	Est. Materials hours	Est. Labor hours
Trencher-Tesmec TRS-1100 Chain Saw with operator		
Total Task 18 - Week 4 - Section 4; Trencher		14

Task 19 - Construction -Week 4 - Section 4 - (5.) Kiowa Hopi Pipe welders and laborers	Est. Materials hours	Est. Labor hours
Pipe welders and laborers cost per week		
Hydrant		

(1) mainline valve installed		
pneumatic pressure test of new pipeline segments		
Total Task 19 - Week 4 - Section 4; Pipe welders and laborers		16
Task 20 - Construction - Week 4 - Section 4 - (5.) Kiowa Hopi		
Backhoe with compactor	Est. Materials hours	Est. Labor hours
Backhoe with compactor with operator		
Total Task 20 - Week 4 - Section 4; Backhoe with compactor		10
Sub-total Construction Week 4 - Section 4; Materials hours	12	
Sub-total Construction Week 4 - Section 4; Labor hours		44
Total Construction Week 4 - Section 4; Materials/Labor hours		
Sub-total Construction Week 4 - Section 4; Materials cost		
Sub-total Construction Week 4 - Section 4; Labor cost		
Total Construction Week 4 - Section 4; Construction cost		
Total Materials hours	**48**	
Total Labor hours		**176**
Total Materials/Labor hours		
Total Materials cost		
Total Labor cost		
TOTAL Construction cost		

	linear feet	meters
Button Rock	3,300	16
Witchita	2,220	23
Cree Court	1,362	16
Meadows to Cherokee	3,036	9
Kiowa to Hopi	2,290	27
total	12,208	91

lain Replacement Infrastructure Project

aggregate cost

573 lf / section

back to top

Materials	Labor	Total
$ 400.00		$ 400.00
$ 200.00		$ 200.00
	$ 100.00	$ 100.00
	$ 300.00	$ 300.00
$ 600.00	$ 400.00	**$ 1,000.00**

Materials	Labor	Total
$ 2,865.00		$ 2,865.00
$ 764.00		$ 764.00
$ 764.00		$ 764.00
$ 15,750.00		$ 15,750.00
$ 300.00		$ 300.00
$ 1,575.00		$ 1,575.00
$ 892.00		$ 892.00
$ 3,359.65		$ 3,359.65
$ 26,269.65		**$ 26,269.65**

Materials	Labor	Total
	$ 20,000.00	$ 20,000.00
	$ 20,000.00	**$ 20,000.00**

Materials	Labor	Total
	$ 5,000.00	$ 5,000.00
	$ 2,000.00	$ 2,000.00
	$ 1,000.00	$ 1,000.00
	$ 1,000.00	$ 1,000.00
	$ 9,000.00	**$ 9,000.00**

Materials	Labor	Total
	$ 10,000.00	$ 10,000.00
	$ 10,000.00	**$ 10,000.00**

		56
$ 26,869.65		
	$ 39,400.00	
		$ 66,269.65

back to top

Materials	Labor	Total
$ 400.00		$ 400.00
$ 200.00		$ 200.00
	$ 100.00	$ 100.00
	$ 300.00	$ 300.00
$ 600.00	$ 400.00	**$ 1,000.00**

Materials	Labor	Total
$ 2,865.00		$ 2,865.00
$ 764.00		$ 764.00
$ 764.00		$ 764.00
$ 15,750.00		$ 15,750.00
$ 300.00		$ 300.00
$ 1,575.00		$ 1,575.00
$ 892.00		$ 892.00
$ 3,359.65		$ 3,359.65
$ 26,269.65		**$ 26,269.65**

Materials	Labor	Total
	$ 20,000.00	$ 20,000.00
	$ 20,000.00	**$ 20,000.00**

Materials	Labor	Total
	$ 5,000.00	$ 5,000.00
	$ 2,000.00	$ 2,000.00
	$ 1,000.00	$ 1,000.00
	$ 1,000.00	$ 1,000.00
	$ 9,000.00	**$ 9,000.00**

Materials	Labor	Total
	$ 10,000.00	$ 10,000.00
	$ 10,000.00	**$ 10,000.00**

				56
$	**26,869.65**			
		$	**39,400.00**	
				$ 66,269.65

back to top

	Materials		Labor		Total
$	400.00			$	400.00
$	200.00			$	200.00
		$	100.00	$	100.00
		$	300.00	$	300.00
$	600.00	$	400.00	**$**	**1,000.00**

	Materials		Labor		Total
$	2,865.00			$	2,865.00
$	764.00			$	764.00
$	764.00			$	764.00
$	15,750.00			$	15,750.00
$	300.00			$	300.00
$	1,575.00			$	1,575.00
$	-			$	-
$	3,359.65			$	3,359.65
$	25,377.65			**$**	**25,377.65**

	Materials		Labor		Total
		$	20,000.00	$	20,000.00
		$	20,000.00	**$**	**20,000.00**

	Materials		Labor		Total
		$	6,000.00	$	6,000.00
		$	-	$	-
		$	1,000.00	$	1,000.00
		$	2,000.00	$	2,000.00
		$	9,000.00	**$**	**9,000.00**

	Materials		Labor		Total

	$ 10,000.00	$	10,000.00
	$ 10,000.00	**$**	**10,000.00**

			56
$	**25,977.65**		
	$ 39,400.00		
		$	**65,377.65**

back to top

	Materials		Labor		Total
$	400.00			$	400.00
$	200.00			$	200.00
		$	100.00	$	100.00
		$	300.00	$	300.00
$	600.00	$	400.00	**$**	**1,000.00**

	Materials		Labor		Total
$	2,855.00			$	2,855.00
$	764.00			$	764.00
$	764.00			$	764.00
$	13,500.00			$	13,500.00
$	300.00			$	300.00
$	1,350.00			$	1,350.00
$	-			$	-
$	2,879.70			$	2,879.70
$	22,412.70			**$**	**22,412.70**

	Materials		Labor		Total
		$	20,000.00	$	20,000.00
		$	20,000.00	**$**	**20,000.00**

	Materials		Labor		Total
		$	6,000.00	$	6,000.00
		$	-	$	-

		$	1,000.00	$	1,000.00
		$	2,000.00	$	2,000.00
		$	9,000.00	**$**	**9,000.00**
	Materials		Labor		Total
		$	10,000.00	$	10,000.00
		$	10,000.00	**$**	**10,000.00**
					56
$	**23,012.70**				
		$	**39,400.00**		
				$	**62,412.70**
					224
$	**102,729.65**				
		$	**157,600.00**		
				$	**260,329.65**

back to top

valves	PVRs	hydrants	backflow connectors
5	16	3	16
4	23	1	23
4	16	1	16
4	9	2	9
4	27	2	27
21	91	9	91

7 DRAWINGS

7.1 CMF UNIT

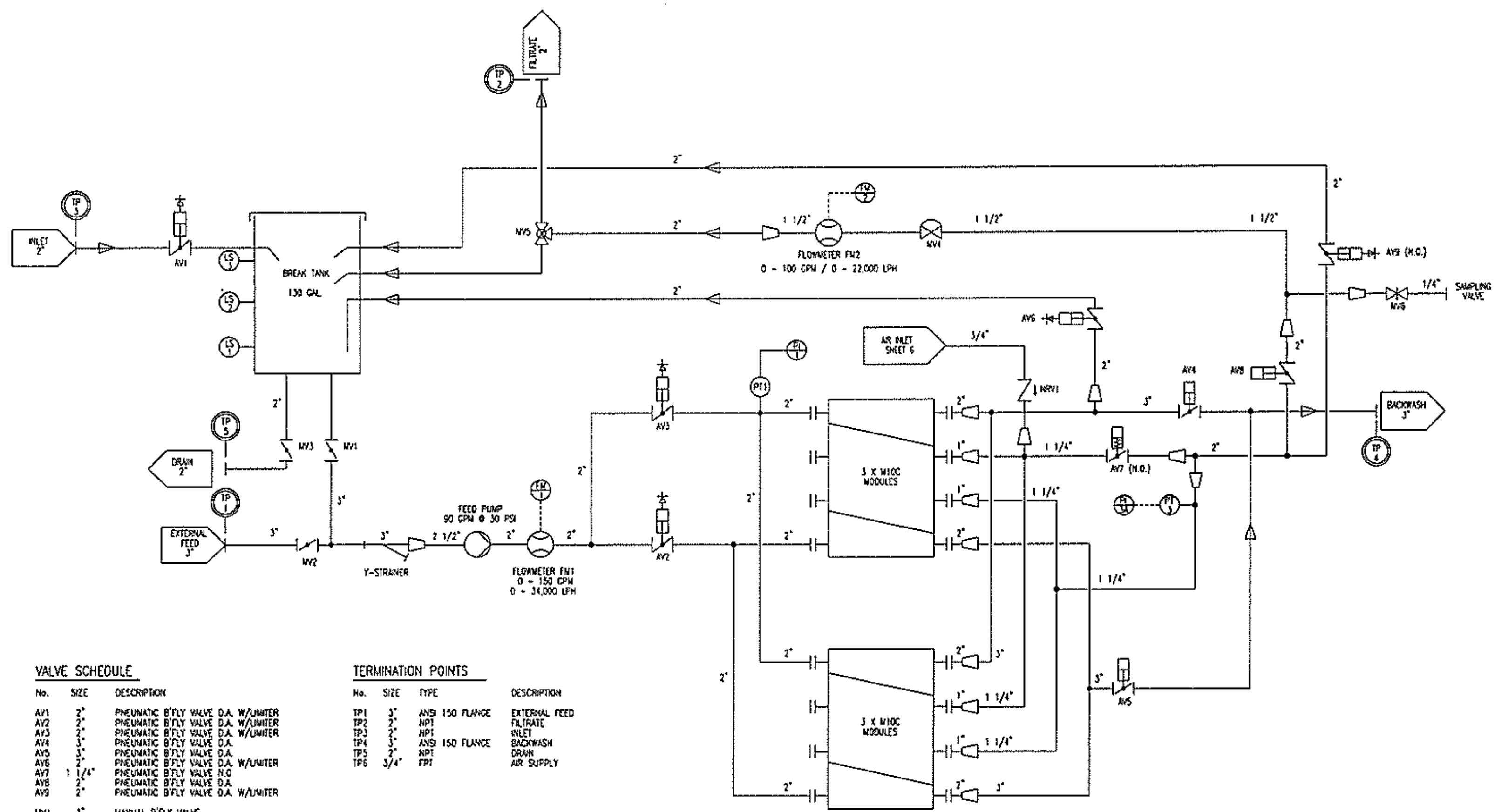
P & ID	260257-0003 (SHEET 1 OF 8)
TERMINATION & MOUNTING	260257-4100 (SHEET 2 OF 8)
GENERAL ARRANGEMENT	260257-4100 (SHEET 3 OF 8)
PIPING DETAILS	260257-4100 (SHEET 4 OF 8)
PIPING DETAILS	260257-4100 (SHEET 5 OF 8)
PNEUMATIC DIAGRAM	260257-4100 (SHEET 6 OF 8)
PIPING DETAILS	260257-4100 (SHEET 7 OF 8)
PIPING DETAILS	260257-4100 (SHEET 8 OF 8)
(BILL OF MATERIALS)	

7.2 CMF ELECTRICAL PANEL

PANEL LAYOUT	260257-7103 (SHEETS 1 TO 5)
(BILL OF MATERIALS)	

7.3 BREAK TANK

BREAK TANK	6150-195
BREAK TANK ASSEMBLY	1000593
(BILL OF MATERIALS)	



VALVE SCHEDULE

No.	SIZE	DESCRIPTION
AV1	2"	PNEUMATIC B'FLY VALVE D.A. W/LIMITER
AV2	2"	PNEUMATIC B'FLY VALVE D.A. W/LIMITER
AV3	2"	PNEUMATIC B'FLY VALVE D.A. W/LIMITER
AV4	3"	PNEUMATIC B'FLY VALVE D.A.
AV5	3"	PNEUMATIC B'FLY VALVE D.A.
AV6	2"	PNEUMATIC B'FLY VALVE D.A. W/LIMITER
AV7	1 1/4"	PNEUMATIC B'FLY VALVE N.O
AV8	2"	PNEUMATIC B'FLY VALVE D.A.
AV9	2"	PNEUMATIC B'FLY VALVE D.A. W/LIMITER
MV1	3"	MANUAL B'FLY VALVE
MV2	3"	MANUAL B'FLY VALVE
MV3	2"	MANUAL B'FLY VALVE
MV4	1 1/2"	MANUAL DIAPHRAGM VALVE
MV5	2"	MANUAL 3WAY L-PORT VALVE
MV6	1/4"	SS NEEDLE VALVE
NRV1	3/4"	DIAPHRAGM CHECK VALVE

TERMINATION POINTS

No.	SIZE	TYPE	DESCRIPTION
TP1	3"	ANSI 150 FLANGE	EXTERNAL FEED
TP2	2"	NPT	FILTRATE
TP3	2"	NPT	INLET
TP4	3"	ANSI 150 FLANGE	BACKWASH
TP5	2"	NPT	DRAIN
TP6	3/4"	FPT	AIR SUPPLY

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	CONSTRUCTION ISSUE	09/10/04	HS	HS	PFS	
B	SUBMITTAL ISSUE	08/27/04	HS	HS	PFS	

SID: 2-0799-22x34D
INTERNAL REF NO:
BAR = 1" AT PLOT SCALE

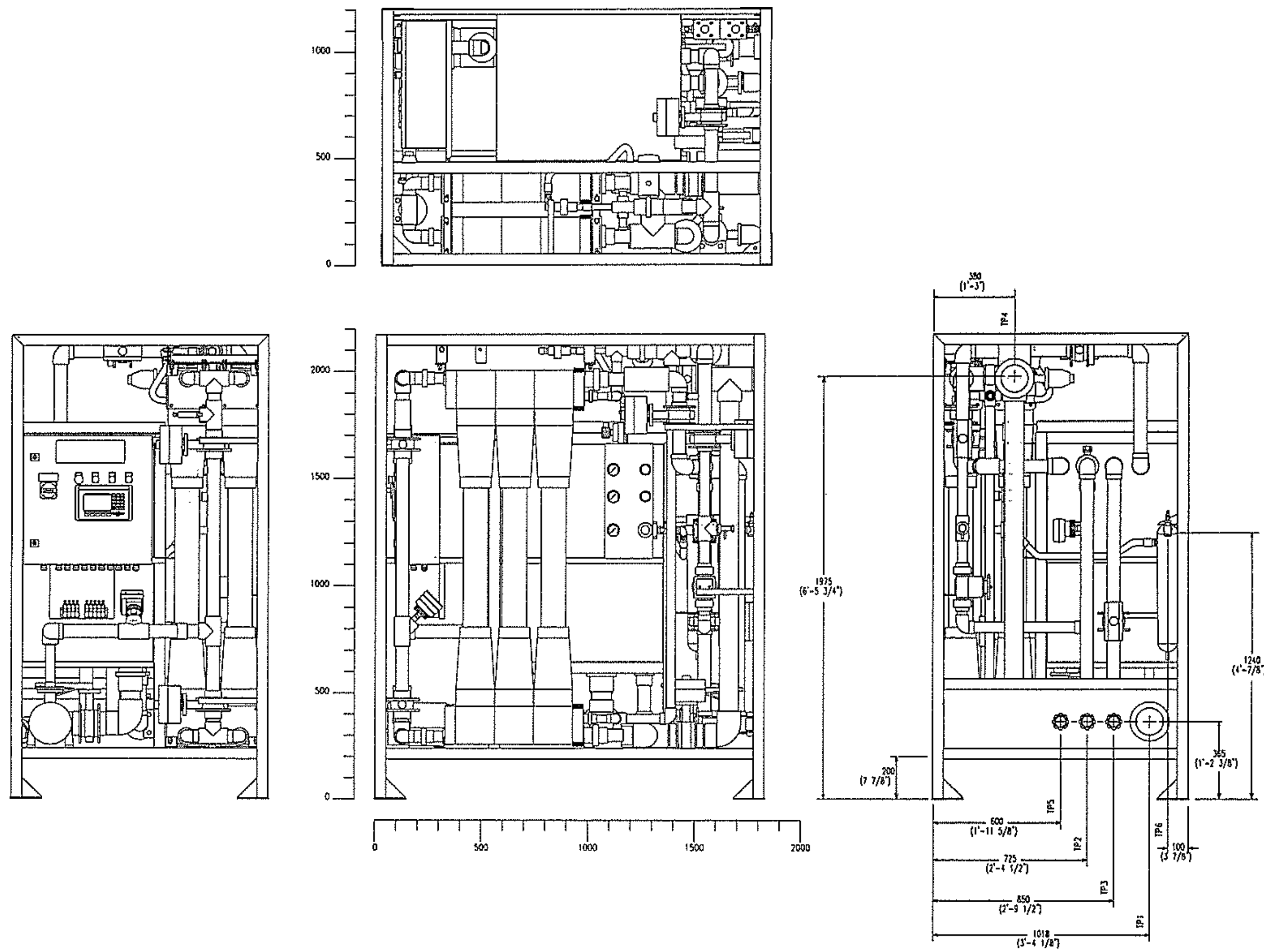
DESIGNER: RHILL	DATE: 26 JAN 2000
CHECKER: J SMITH	DATE: 31 JAN 2000
ENGINEER: S MILWAIN	DATE: 31 JAN 2000
MANAGER	DATE
FILE: 260257-0003	
SCALE: NONE	

TITLE: 6M10C CMF UNIT
230VAC 1Ø
P & ID

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
260257		260257-0003	1 OF 8	C



TES:

OVERALL DIMENSIONS ARE 1835 (6'-1/4") LONG X 1210 (3'-11 5/8") WIDE X 2175 (7'-1 5/8") TALL. DRY WEIGHT IS 1900 LBS. OPERATING WEIGHT IS 3600 LBS.
SEE SHEET 3 FOR TERMINATION POINT TABLE.

STD: 2-0799-22-340

INTERNAL REF NO:

TOLERANCES

Linear : +,- 1.5mm (1/16)
Angular: +,- 1 DEG.
UNLESS NOTED OTHERWISE

BAR = 1" AT PLOT SCALE

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	CONSTRUCTION ISSUE	09/10/04	HS	HS	PFS	
B	SUBMITTAL ISSUE	08/27/04	HS	HS	PFS	

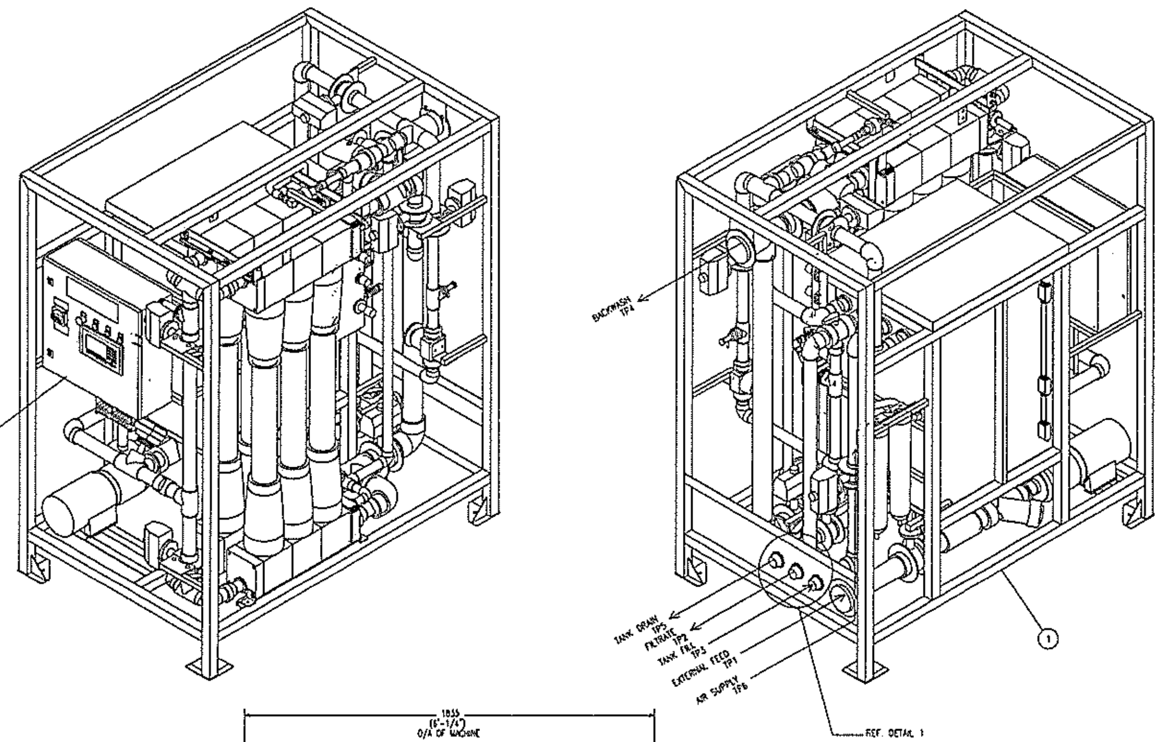
DESIGNER	DATE		
RHILL	26 JAN 2000		
CHECKER	DATE		
J SMITH	31 JAN 2000		
ENGINEER	DATE		
S MILVAIN	31 JAN 2000		
MANAGER	DATE		
FILE: 260257-4100			
SCALE: NONE			

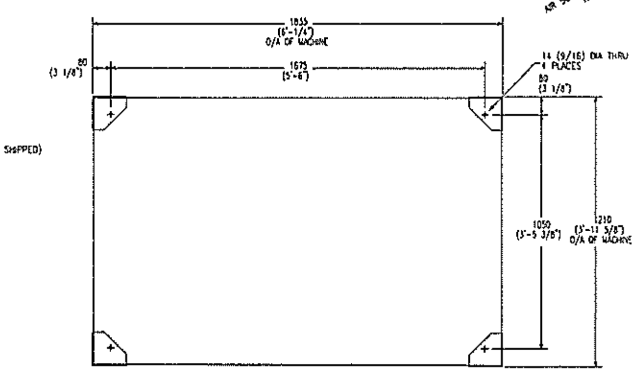
TITLE 6M10C CMF UNIT
230VAC 1Ø
TERMINATION AND MOUNTING

CLIENT PINEWOOD SPRINGS WATER DISTRICT

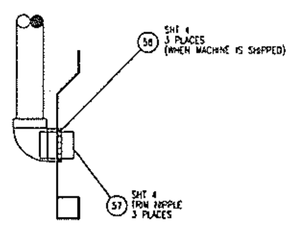
USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
260257		260257-4100	2 OF 8	C





HOLD-DOWN BOLT PATTERN



DETAIL 1
SCALE 1:5

TERMINATION POINTS

No.	SIZE	TYPE	DESCRIPTION
TP1	3"	ANSI 150 FLANGE	EXTERNAL FEED
TP2	2"	NPT	FILTRATE
TP3	2"	NPT	INLET
TP4	3"	ANSI 150 FLANGE	BACKWASH
TP5	2"	NPT	DRAIN
TP6	3/4"	FPT	AIR SUPPLY

TOLERANCES

Linear : +,- 1.5mm (1/16)
Angular: +,- 1 DEG.
UNLESS NOTED OTHERWISE

REV	DESCRIPTION	DATE	DRN	CHKD	APVD	ECN
C	CONSTRUCTION ISSUE	09/10/04	HS	HS	PFS	
B	SUBMITTAL ISSUE	08/27/04	HS	HS	PFS	

DESIGNER: RHILL	DATE: 26 JAN 2000
CHECKER: J SMITH	DATE: 31 JAN 2000
ENGINEER: S MILVAIN	DATE: 31 JAN 2000
MANAGER:	DATE:
FILE: 260257-4100	
SCALE: NONE	

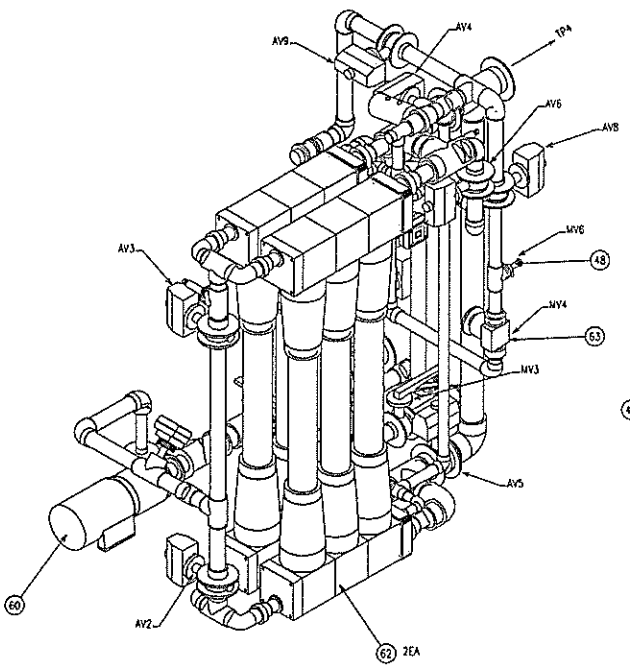
TITLE: 6M10C CMF UNIT
230VAC 1Ø
GENERAL ARRANGEMENT

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

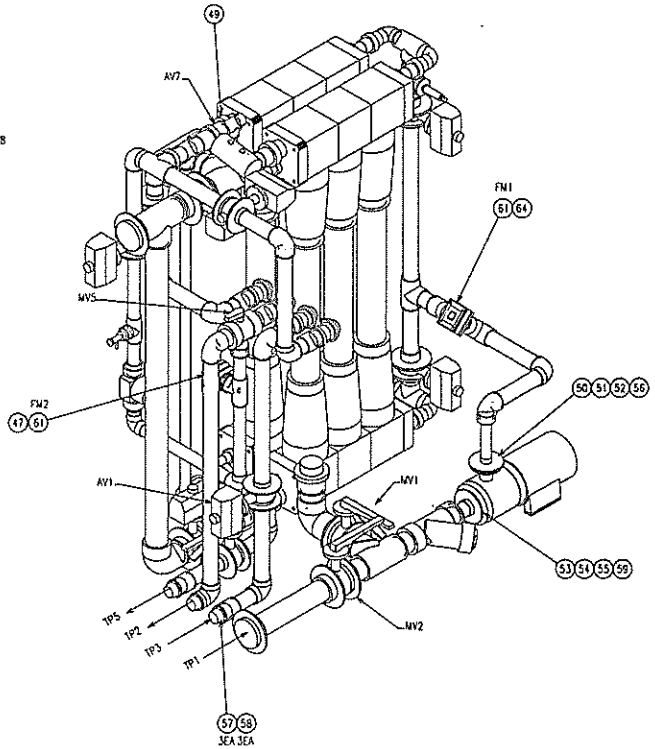
USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
260257		260257-4100	3 OF 8	C

ID: 2-0799-22x34D
INTERNAL REF NO:
BAR = 1" AT PLOT SCALE



ISO 1



ISO 3

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	CONSTRUCTION ISSUE	09/10/04	HS	HS	PFS	
B	SUBMITTAL ISSUE	08/27/04	HS	HS	PFS	

DESIGNER	PHILL	DATE 28 JAN 2020
CHECKER	J SMITH	DATE 31 JAN 2020
ENGINEER	S SALVAN	DATE 31 JAN 2020
MANAGER		DATE
FILE:	260257-4100	
SCALE:	NONE	

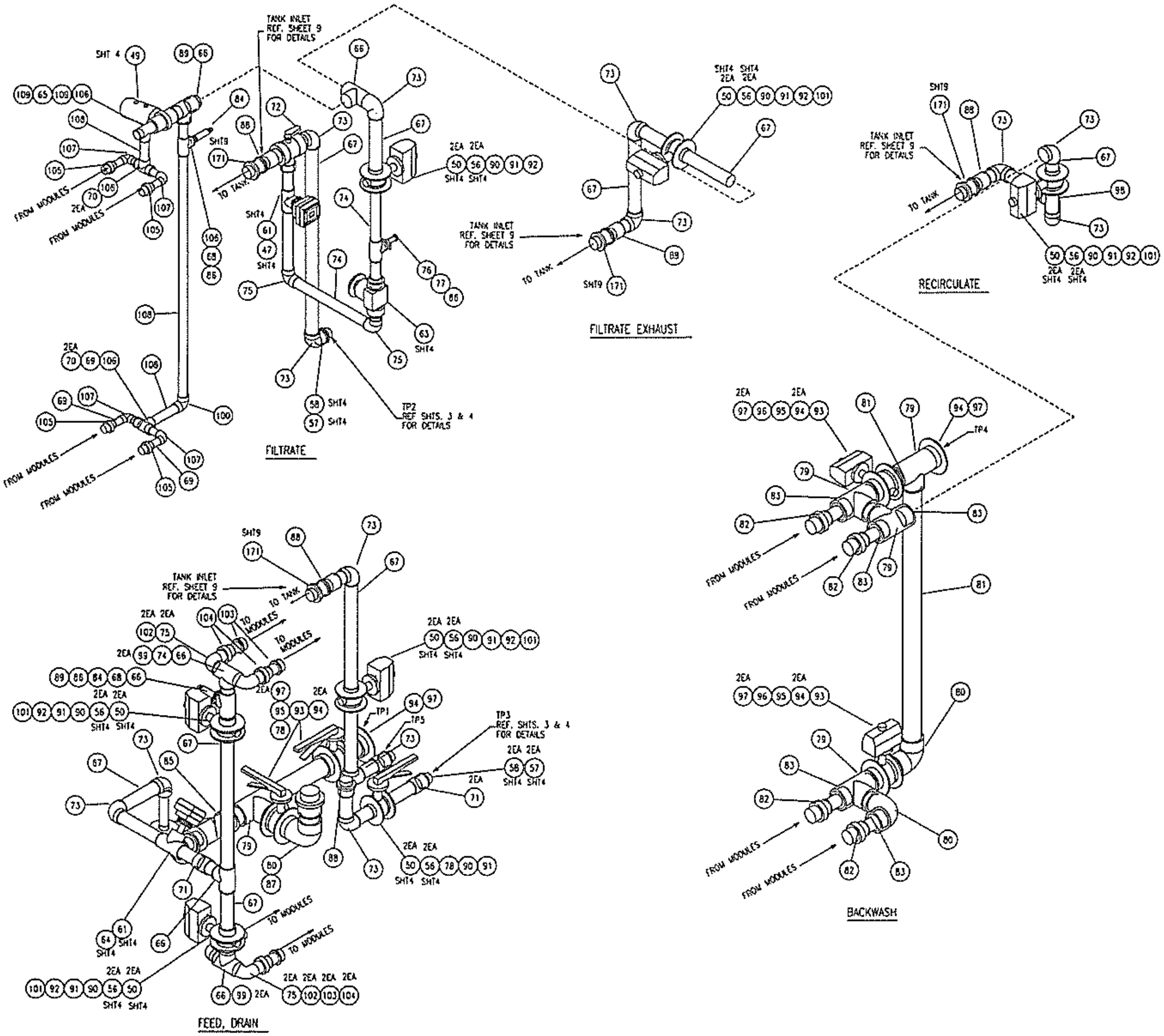
TITLE: 6M10C CNF UNIT
230VAC 1Ø
PIPING DETAILS

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-WEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
260257		260257-4100	4 OF 8	C

TID: 2-0799-22x340 | INTERNAL REF NO: | BAR = 1" AT PLOT SCALE



REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	CONSTRUCTION ISSUE	09/10/04	HS	HS	PFS	
B	SUBMITTAL ISSUE	08/27/04	HS	HS	PFS	

COMPANY CONFIDENTIAL

TITLE: 6M10C CMF UNIT
230VAC 1Ø
PIPING DETAILS

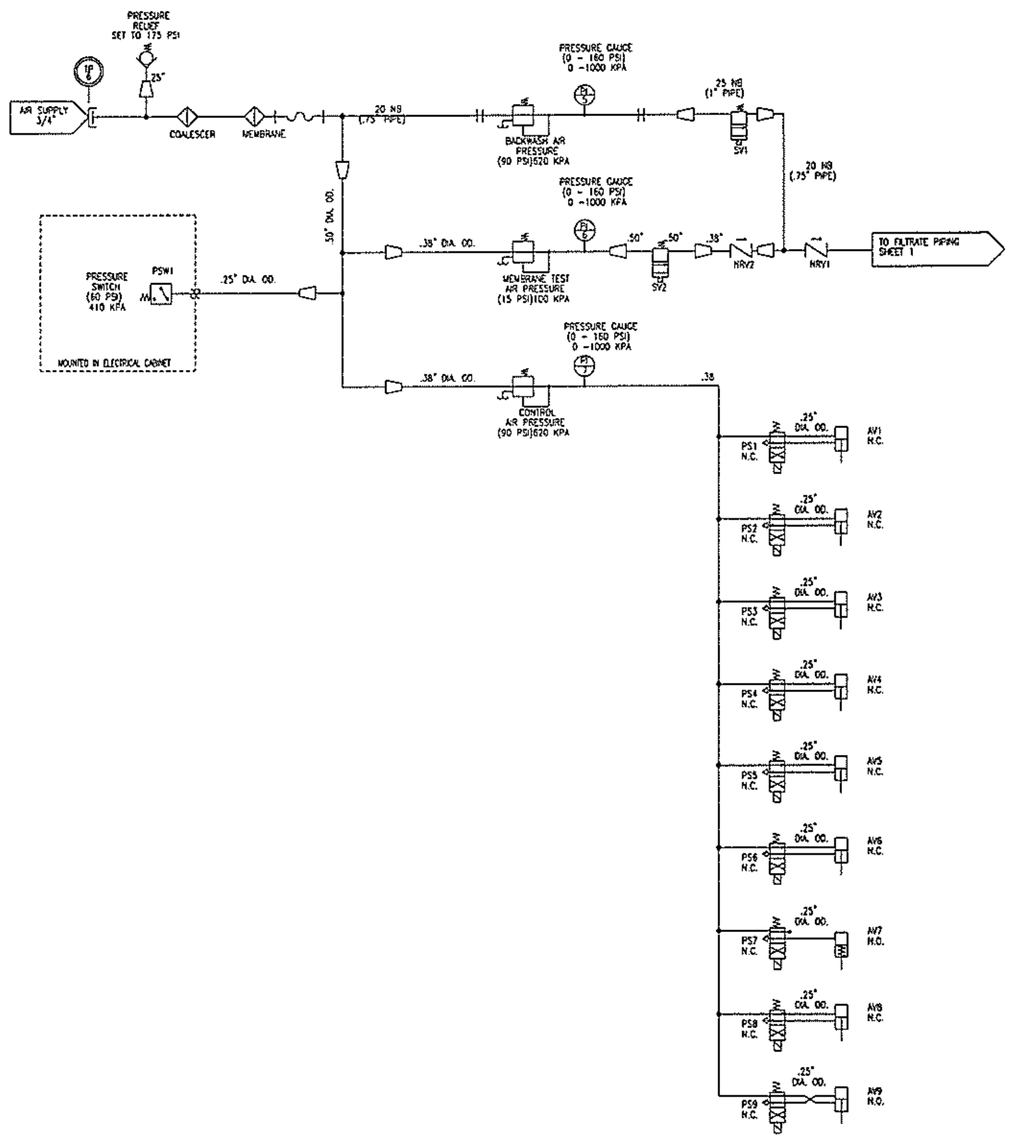
CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

FILE: 260257-4100
SCALE: NONE

PROJECT	CODE	DRAWING	SHEET	REV
260257		260257-4100	5 OF 8	C

STD: 2-0799-22x34D
INTERNAL REF NO:
BAR = 1" AT PLOT SCALE



REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	CONSTRUCTION ISSUE	09/27/04	HS	HS	PFS	
B	SUBMITTAL ISSUE	08/27/04	HS	HS	PFS	

DESIGNER: RHALL	DATE: 24 JAN 2003
CHECKER: J SMITH	DATE: 31 JAN 2003
ENGINEER: S McVAN	DATE: 31 JAN 2003
MANAGER:	DATE:
FILE: 260257-4100	
SCALE: NONE	

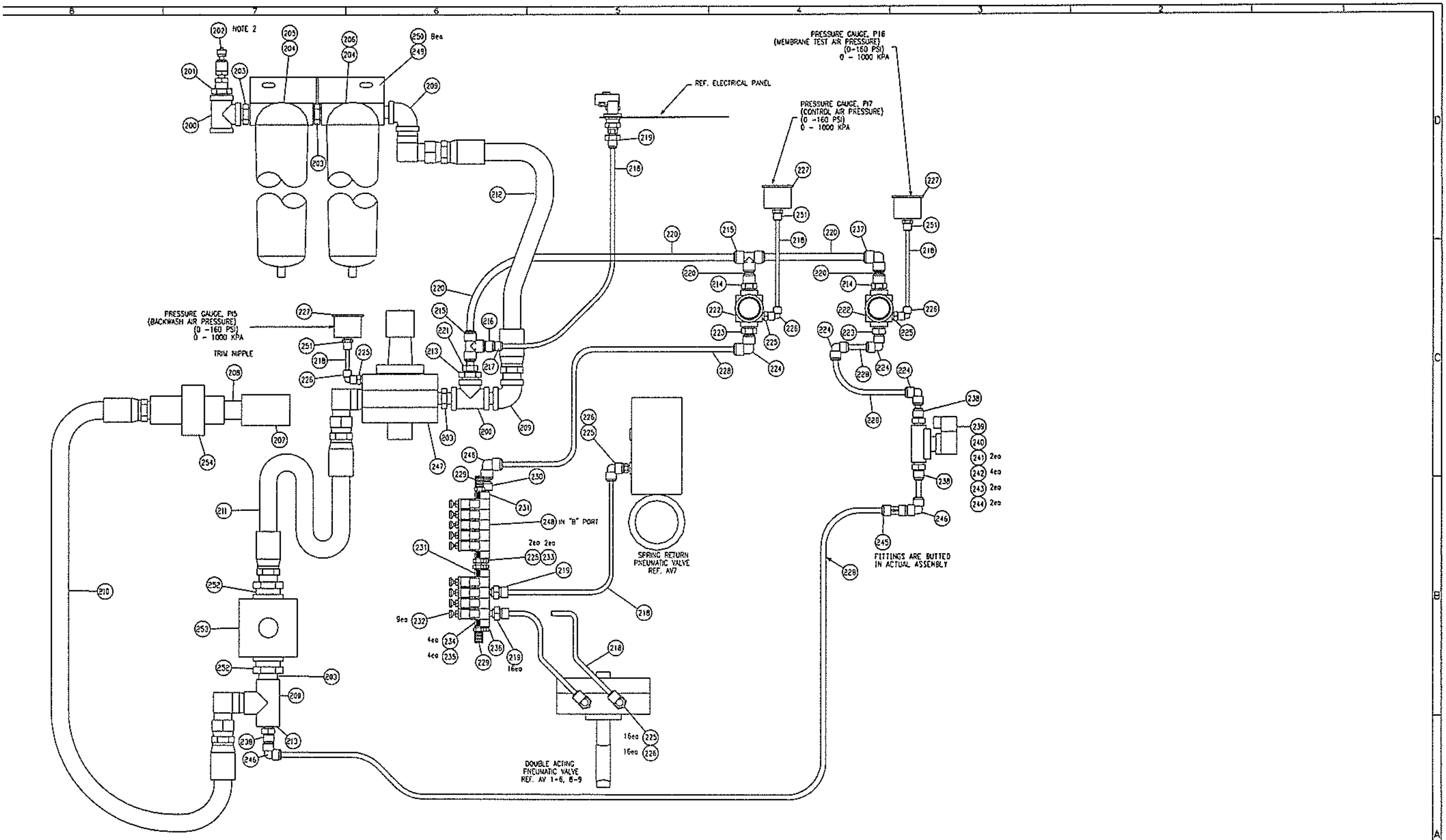
TITLE: 6M10C CMF UNIT
230VAC 1Ø
PNEUMATIC DIAGRAM

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
260257		260257-4100	6 OF 8	C

ID: 2-0799-22x34D
INTERNAL REF NO:
BAR = 1" AT PLOT SCALE



NOTES:

1. DRAWING INTENDED TO SHOW CONNECTION RELATIONSHIP OF COMPONENTS AND NOT TRUE ORIENTATION OR SIZE. SEE SHEET 8 FOR TRUE ORIENTATION OF PROCESS AIR COMPONENTS.

2. ITEM 202, PRESSURE RELIEF VALVE TO BE SET TO 175 PSI.

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	CONSTRUCTION ISSUE	09/10/04	HS	HS	PFS	
B	SUBMITTAL ISSUE	08/27/04	HS	HS	PFS	

ID: 2-0792-22x34D

INTERNAL REF NO:

BAR = 1" AT PLOT SCALE

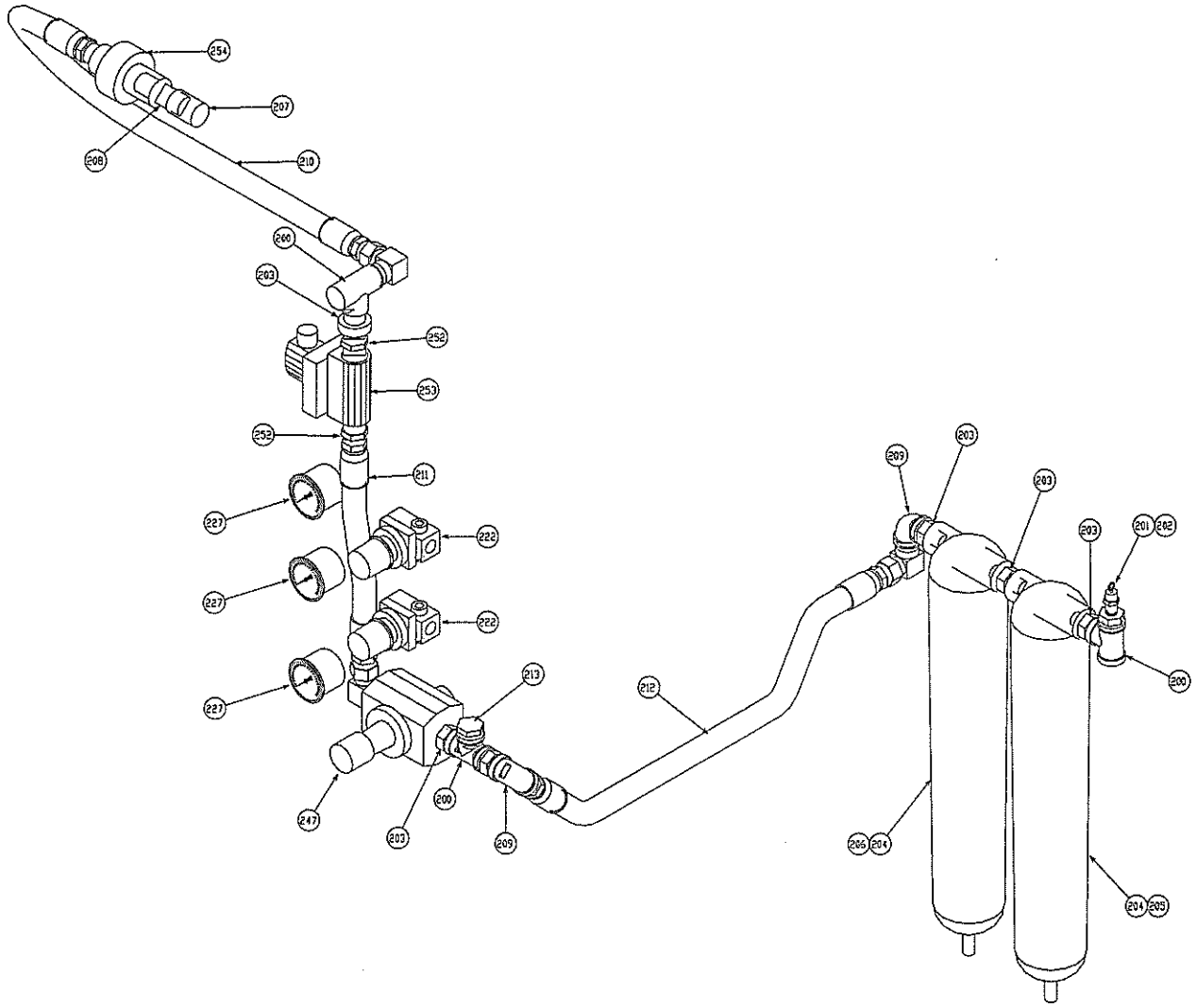
DESIGNER: PHILL	DATE: 26 JAN 2000
CHECKER: J SMITH	DATE: 31 JAN 2000
ENGINEER: S MILVAIN	DATE: 31 JAN 2000
MANAGER:	DATE:
FILE: 260257-4100	
SCALE: NONE	

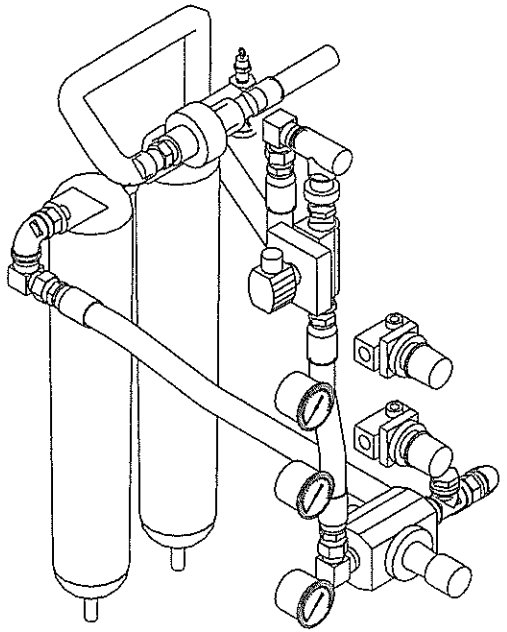
TITLE: 6M10C CMF UNIT
230VAC 1Ø
PIPING DETAILS

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
260257		260257-4100	7 OF 8	C





REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
B	CONSTRUCTION ISSUE	09/10/04	HS	HS	PFS	
B	SUBMITTAL ISSUE	08/27/04	HS	HS	PFS	

ID: 2-0789-22x34D | INTERNAL REF NO: | BAR = 1" AT PLOT SCALE

		DATE
DESIGNER	RHILL	26 JAN 2005
CHECKER	J. SMITH	31 JAN 2005
ENGINEER	S. MILVAIN	31 JAN 2005
MANAGER		DATE

FILE: 260257-4100
SCALE: NONE

TITLE: 6M10C CMF UNIT
230VAC 1Ø
PIPING DETAILS

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
2118 GREENSPRING DRIVE
TIMONIUM, MD 21093 USA
TEL: 1-800-MEMCOR4

PROJECT	CODE	DRAWING	SHEET	REV
260257		260257-4100	8 OF 8	C

Project : 260257 Pinewood Springs Expansion, CO
BOM Pos.: 0 - 9999
Customer: 5518 PINEWOOD SPRINGS WATER DIST

Status : Active
Start Date: 07-12-04
End Dt :

Pos.	Item Code	Description	Item Type	Length in]	Width [in]	No.of Units	Net Quantity	Un.	Scrap [%]	Wrh	Opr.	Ph.	Extra Info
Manufactured Item:	**2602575000**	**CMF UNIT 6M10C**								**BOM Unit:**			**1 ea**
1	2602576000	FRAME ASSY 4/6M10C CMF	Cu				1.0000	ea		WH		N	
2	2602577103	PANEL ASSY 6M10 230/1/60	Cu				1.0000	ea		WH		N	
3	600004010	LABEL SET 6M10C	Cu				1.0000	ea		WH		Y	
5	6037007	CLIP PIPE 0.75 NYL	St				3.0000	ea		WH		N	
6	6405020	RIVET BLIND 0.125x0.64 AL	St				3.0000	ea		WH		N	
7	6400006	BOLT HH 10MMx30MM SS	St				4.0000	ea		WH		N	
8	6400213	BOLT HH 16MMx65MM SS	St				4.0000	ea		VMW		N	
9	6400604	BOLT HH M6x20MM SS	St				12.0000	ea		WH		N	
10	6400608	BOLT HH 6MMx40MM SS	St				4.0000	ea		WH		N	
11	6400808	BOLT HH M8x40MM SS	St				4.0000	ea		WH		N	
12	6400106	BOLT HH M12x30MM SS	St				4.0000	ea		WH		N	
13	6401104	NUT HH M4 SS	St				4.0000	ea		WH		N	
14	6401205	NUT M5 SS/NYL INSERT	St				4.0000	ea		WH		N	
15	6401206	NUT M6 SS/NYL INSERT	St				4.0000	ea		VMW		N	
16	6401110	NUT HH M10 SS	St				4.0000	ea		WH		N	
17	6401112	NUT HH M12 SS	St				4.0000	ea		VMW		N	
18	6401116	NUT HH M16 SS	St				4.0000	ea		VMW		N	
19	6401306	NUT INSERT M6 SS	Cu				4.0000	ea		WH		N	
20	6402104	WASHER FLAT 4MM SS	St				8.0000	ea		VMW		N	
21	6402105	WASHER FLAT M5 SS	St				4.0000	ea		WH		N	
22	6402106	WASHER FLAT M6 SS	St				28.0000	ea		VMW		N	
23	6402108	WASHER FLAT M8 SS	St				2.0000	ea		VMW		N	
24	6402112	WASHER FLAT M12 SS	St				8.0000	ea		VMW		N	
25	6402110	WASHER FLAT M10 SS	St				8.0000	ea		WH		N	
26	6402116	WASHER FLAT M16 304SS	St				8.0000	ea		VMW		N	
27	6402204	WASHER LOCK SPLIT M4 SS	St				4.0000	ea		VMW		N	
28	6402205	WASHER LOCK SPLIT M5 SS	St				4.0000	ea		WH		N	
29	6402206	WASHER LOCK SPLIT M6 SS	St				20.0000	ea		VMW		N	
30	6402208	WASHER LOCK SPLIT M8 SS	St				2.0000	ea		VMW		N	
31	6402210	WASHER LOCK SPLIT M10 SS	St				4.0000	ea		WH		N	
32	6402212	WASHER LOCK SPLIT M12 SS	St				4.0000	ea		VMW		N	
33	6402216	WASHER LOCK SPLIT M16 SS	St				4.0000	ea		VMW		N	
34	6404410	BOLT SLOT M4x50MM SS PAN	St				4.0000	ea		VMW		N	
35	6404507	SCREW PAN HD M5x35MM SS	St				4.0000	ea		WH		N	
37	288034250	CONDUIT FLEX LIQUIDTIGHT 0.5	St	120.00		1	10.0000	ft		VMW		N	
38	6307415	CONDUIT ELL FLEX 0.5 PLASTIC	St				1.0000	ea		WH		N	
39	6307402	CONDUIT FLEX CONN STR .5	St				1.0000	ea		VMW		N	
40	6051100	WIRE MTW 12GA BLACK	St	468.00		1	39.0000	ft		IA		N	
41	6051105	WIRE MTW 12GA GREEN	St	156.00		1	13.0000	ft		IA		N	
42	6500025	SUPPORT M10 MOD BOT LEFT	Cu				2.0000	ea		WH		Y	
43	6500026	SUPPORT M10 MOD BOT RIGHT	Cu				2.0000	ea		WH		Y	
44	73979	WIRE SINGLE PR SHIELDED	St	600.00		1	50.0000	ft		IA		N	
45	6400608	BOLT HH 6MMx40MM SS	St				4.0000	ea		WH		N	

Project : 260257 Pinewood Springs Expansion, CO
BOM Pos.: 0 - 9999
Customer: 5518 PINEWOOD SPRINGS WATER DIST

Status : Active
Start Date: 07-12-04
End Dt :

Pos.	Item Code	Description	Item Type	Length in]	Width [in]	No.of Units	Net Quantity	Un.	Scrap [%]	Wrh	Opr.	Ph.	Extra Info
Manufactured Item:	2602575000	CMF UNIT 6M10C										BOM Unit:	1 ea
46	6401106	NUT HH M6 SS	St				4.0000	ea		WH		N	
47	6036115	FITTING INSTALLATION 1.50	St				1.0000	ea		WH		N	
48	6038201	VALVE NEEDLE MPTxCOMPR 0.25 SW	St				1.0000	ea		WH		N	
49	6035512	VALVE B/F 1.25 PVC SR	St				1.0000	ea		WH		N	
50	6030320	FLANGE 150# SOC 2.0 ABS	St				15.0000	ea		WH		N	
51	6030121	GASKET FLG 150LB 2.0x0.125 FDA	St				1.0000	ea		WH		N	
52	6424102	BOLT KIT FLGxFLG 2.0 ZPS	Cu				1.0000	ea		WH		Y	
53	6030126	GASKET FLG 150LB 2.5x0.125 FDA	St				1.0000	ea		WH		N	
54	6424103	BOLT KIT FLGxFLG 2.5&3.0 ZPS	St				1.0000	ea		WH		N	
55	6030025	FLANGE 150# SOC VS 2.5 CPVC	St				1.0000	ea		WH		N	
56	6030420	RING BACKING 2.00 GALV	St				15.0000	ea		WH		N	
57	6027520	NIP 2.0x3.0 ABS	St				3.0000	ea		WH		N	
58	6307220	LOCKNUT ELEC 2.00	St				3.0000	ea		VMW		N	
59	6122339	BUSH SCH80 SxS 3.0x2.5 PVC	St				1.0000	ea		VMW		N	
60	2602574103	PUMP GOULDS SSH-C 5HP 1PH	Cu				1.0000	ea		WH		N	
61	6036219	FLOWMETER ASSY FEED SIGNET	St				2.0000	ea		WH		N	
62	6001353	MODULE ASSY 3XM10C NYLON CT	Cu				2.0000	ea		WH		N	
63	6025815	VALVE MAN 1.5 PVC	St				1.0000	ea		WH		N	
64	6036120	FITTING INSTALLATION 2.00	St				1.0000	ea		WH		N	
65	6125167	BUSH SxS 1.25x0.75 ABS	St				1.0000	ea		WH		N	
66	6013220	TEE 230PSI SOC 2.0 ABS	St				6.0000	ea		WH		N	
67	6010220	PIPE ABS 2.0 230PSI 20FT	St	360.00		1	1.5000	s20		MR		N	
68	6125166	BUSH SxS 1.25x0.5 ABS	St				2.0000	ea		WH		N	
69	6010210	PIPE ABS 1.0 230PSI 20FT	St	240.00		1	1.0000	s20		MR		N	
70	6125168	BUSH SxS 1.25x1.0 ABS	St				4.0000	ea		WH		N	
71	6016220	COUPLING SCH80 SOC 2.0 ABS	St				3.0000	ea		WH		N	
72	6025320	VALVE BALL 3WAY 2.0 SxS CPVC	St				1.0000	ea		WH		N	
73	6011220	ELL 90DEG 230PSI SOC 2.0 AB	St				14.0000	ea		WH		N	
74	6010215	PIPE ABS 1.5 230PSI 20FT	St	240.00		1	1.0000	s20		MR		N	
75	6011215	ELL 90DEG 230PSI SOC 1.5 AB	St				6.0000	ea		WH		N	
76	6013215	TEE 230PSI SOC 1.5 ABS	St				1.0000	ea		WH		N	
77	6125209	BUSH SxS 1.5x0.5 ABS	St				1.0000	ea		WH		N	
78	6025501	VALVE HANDLE W/ NOTCH PLATE 2.	St				3.0000	ea		WH		N	
79	6013230	TEE 230PSI SOC 3.0 ABS	St				5.0000	ea		WH		N	
80	6011230	ELL 90DEG 230PSI SOC 3.0 ABS	St				3.0000	ea		WH		N	
81	6010230	PIPE ABS 3.0 230PSI 20FT	St	240.00		1	1.0000	s20		WH		N	
82	6014220	UNION SOC 2.0 ABS	St				5.0000	ea		WH		N	
83	6125338	BUSH SxS 3.0x2.0 ABS	St				5.0000	ea		WH		N	
84	6302100	TRANSDUCER PRESS 0-100PSI	Cu				2.0000	ea		WH		N	
85	6033030	STRAINER Y SxS 20MESH 3.0 CPVC	St				1.0000	ea		WH		N	
86	6023072	BUSH SCH80 SxT 0.5x0.25 CPVC	St				3.0000	ea		WH		N	
87	6017030	ADAPTER SCH80 M 3.0 CPVC	St				1.0000	ea		WH		N	
88	6017020	ADAPTER SCH80 M 2.0 CPVC	St				5.0000	ea		WH		N	

Project : 260257 Pinewood Springs Expansion, CO
BOM Pos.: 0 - 9999
Customer: 5518 PINEWOOD SPRINGS WATER DIST

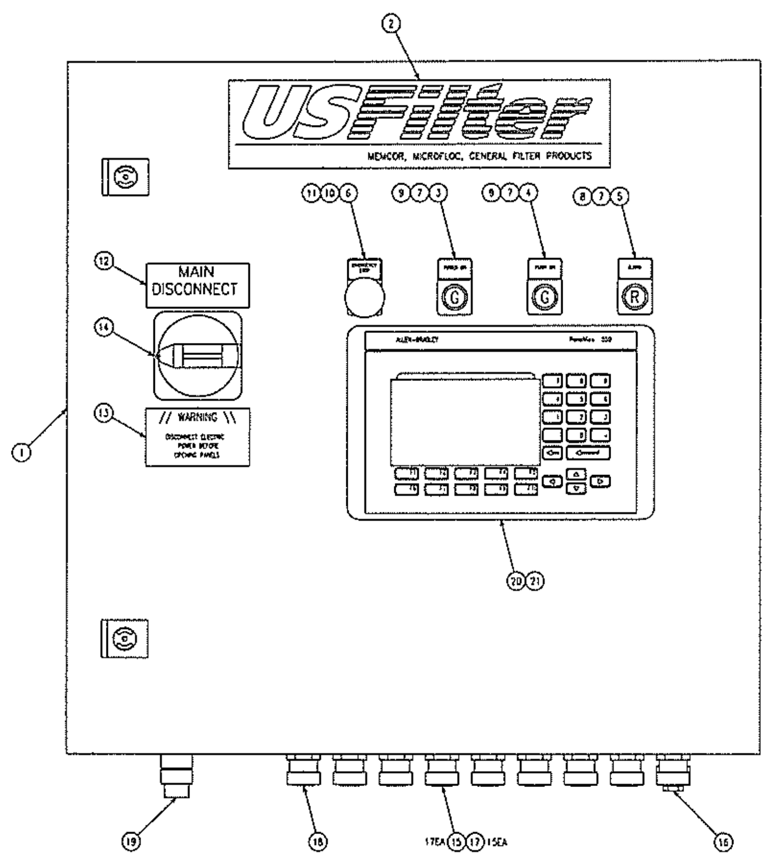
Status : Active
Start Date: 07-12-04
End Dt :

Pos.	Item Code	Description	Item Type	Length in]	Width [in]	No.of Units	Net Quantity	Un.	Scrap [%]	Wrh	Opr.	Ph.	Extra Info
Manufactured Item:	2602575000	CMF UNIT 6M10C										BOM Unit:	1 ea
89	6125250	BUSH SxS 2.0x1.25 ABS	St				2.0000	ea		WH		N	
90	6035721	VALVE B/F 2 WFR CI	Cu				7.0000	ea		WH		N	
91	6424202	BOLT KIT VALVE 2.0 GALV	Cu				7.0000	ea		WH		Y	
92	6035407	ACTUATOR PNEU DA 2.0/3.0 KEYST	Cu				8.0000	ea		WH		N	
93	6035731	VALVE B/F 3 WFR CI	Cu				4.0000	ea		WH		N	
94	6030330	FLANGE STUB 150# SOC 3.0 ABS	St				10.0000	ea		VMW		N	
95	6424203	BOLT KIT VALVE 2.5&3.0 ZPS	Cu				4.0000	ea		WH		Y	
96	10540578	O-RING 5.7x52.1MM EPDM	St				4.0000	ea		WH		N	
97	6030430	RING BACKING 3.0 GALV	St				10.0000	ea		WH		N	
98	6012220	ELL 45DEG 230PSI SOC 2.0 ABS	St				4.0000	ea		WH		N	
99	6125251	BUSH SxS 2.0x1.5 ABS	St				6.0000	ea		WH		N	
100	6011212	ELL 90DEG 230PSI SOC 1.25 AB	St				1.0000	ea		WH		N	
101	1000090	TRAVEL STOP ENDPLATE 2-4IN	St				5.0000	ea		WH		N	
102	6027515	NIP 1.5x3.0 ABS	St				4.0000	ea		WH		N	
103	6024251	BUSH SCH80 TxT 2.0x1.5 CPVC	St				4.0000	ea		VMW		N	
104	6014215	UNION SOC 1.5 ABS	St				4.0000	ea		WH		N	
105	6014210	UNION SOC 1.0 ABS	St				4.0000	ea		WH		N	
106	6013212	TEE 230PSI SOC 1.25 ABS	St				4.0000	ea		WH		N	
107	6011210	ELL 90DEG 230PSI SOC 1.0 ABS	St				4.0000	ea		WH		N	
108	6010212	PIPE ABS 1.25 230PSI 20FT	St	240.00		1	1.0000	s20		MR		N	
109	6010207	PIPE ABS 0.75 230PSI 20FT	St	240.00		1	1.0000	s20		MR		N	
200	6313752	TEE THD 0.75 BRS	St				3.0000	ea		WH		N	
201	205011204	BUSH STDWT 0.75x0.25 BRS	St				1.0000	ea		WH		N	
202	6304038	VALVE RELIEF PRESS 175PSI	St				1.0000	ea		WH		N	
203	6313715	NIP HEX 0.75x1.969 BRS	St				4.0000	ea		VMW		N	
204	6032505	HOUSING FILTER 20.00 BRS	Cu				2.0000	ea		WH		N	
205	6032404	FILTER REVERSE DUO-FINE 20.00	Cu				1.0000	ea		WH		N	
206	6032401	CARTRIDGE FILTER MEMBRANE 20.0	St				1.0000	ea		WH		N	
207	6016207	COUPLING SCH80 SOC 0.75 ABS	St				1.0000	ea		WH		N	
208	6027507	NIP 0.75x3.0 ABS	St				1.0000	ea		WH		N	
209	6313768	ELL 90DEG ST 0.75 BRS	St				2.0000	ea		VMW		N	
210	6314033	HOSE AIR FLEXIBLE 40LG	St				1.0000	ea		WH		N	
211	6314031	HOSE AIR FLEXIBLE 15.5LG	St				1.0000	ea		WH		N	
212	6314032	HOSE AIR FLEXIBLE 29LG	St				1.0000	ea		WH		N	
213	205011208	BUSH STDWT 0.75x0.5 BRS	St				2.0000	ea		WH		N	
214	6313012	ADAPTER SxMPT 0.5x0.375 JG	St				2.0000	ea		VMW		N	
215	6313205	TEE SOC 0.5 JG	St				2.0000	ea		VMW		N	
216	6313065	REDUCER PI 0.50x0.313	St				1.0000	ea		WH		N	
217	6313062	REDUCER TxS 0.312x0.25 JG	St				1.0000	ea		VMW		N	
218	6314001	T PNEU FLEX BLK 0.25	St	6000.00		1	500.0000	ft		VMW		N	
219	6313003	ADAPTER SxMPT 0.25x0.125 JG	St				18.0000	ea		VMW		N	
220	6314004	T PNEU FLEX BLK 0.5x100FT	St				62.0000	ft		VMW		N	
221	6313051	ADAPTER TxMPT 0.5 JG	St				1.0000	ea		VMW		N	

Project : 260257 Pinewood Springs Expansion, CO
BOM Pos.: 0 - 9999
Customer: 5518 PINEWOOD SPRINGS WATER DIST

Status : Active
Start Date: 07-12-04
End Dt :

Pos.	Item Code	Description	Item Type	Length in]	Width [in]	No.of Units	Net Quantity	Un.	Scrap [%]	Wrh	Opr.	Ph.	Extra Info
Manufactured Item:	2602575000	CMF UNIT 6M10C										BOM Unit:	1 ea
222	6304011	REGULATOR 5-125PSI 3/8 NPT	St				2.0000	ea		WH		N	
223	6313049	ADAPTER TxMPT 0.375 JG	St				2.0000	ea		VMW		N	
224	6313224	ELL 90DEG SOC 0.375 JG	St				5.0000	ea		VMW		N	
225	6313044	ADAPTER TxMPT 0.25 JG	St				22.0000	ea		VMW		N	
226	6313222	ELL 90DEG SOC 0.25 JG	St				20.0000	ea		VMW		N	
227	6302014	GAUGE PRESS 0-160PSI 2IN	St				3.0000	ea		WH		N	
228	6314003	T PNEU FLEX BLK 0.375x500FT	St				20.0000	ft		VMW		N	
229	6313605	MUFFLER AIR 0.25	St				2.0000	ea		VMW		N	
230	6313009	ADAPTER SxMPT 0.375x0.25 JG	St				1.0000	ea		VMW		N	
231	6312201	VALVE KIT ENDPLT MANIFOLD 0.25	St				2.0000	ea		WH		N	
232	6312204	VALVE SOL 24VAC MAC45	St				9.0000	ea		WH		N	
233	6313004	ADAPTER SxMPT 0.25 JG	St				2.0000	ea		VMW		N	
234	6402204	WASHER LOCK SPLIT M4 SS	St				4.0000	ea		VMW		N	
235	6404404	BOLT SLOT M4x20MM SS PAN	St				4.0000	ea		WH		N	
236	6313402	PLUG SOC HEAD THD 0.25 BRS	St				1.0000	ea		VMW		N	
237	6313225	ELL 90DEG SOC 0.5 JG	St				1.0000	ea		VMW		N	
238	6313011	ADAPTER SxMPT 0.375x0.5 JG	St				3.0000	ea		VMW		N	
239	6312103	VALVE SOL 24VAC 0.5 ASCO	St				1.0000	ea		WH		N	
240	6501203	BRACKET VALVE SOLENOID	Cu				1.0000	ea		WH		N	
241	6404605	SCREW SLOT M6x25MM SS PAN	St				2.0000	ea		WH		N	
242	6402106	WASHER FLAT M6 SS	St				4.0000	ea		VMW		N	
243	6402206	WASHER LOCK SPLIT M6 SS	St				2.0000	ea		VMW		N	
244	6401106	NUT HH M6 SS	St				2.0000	ea		WH		N	
245	6028310	VALVE CHECK BALL 0.375 JG	St				1.0000	ea		WH		N	
246	6313087	ELL 90DEG TxS 0.375 JG	St				3.0000	ea		VMW		N	
247	6304017	REGULATOR 5-125PSI 3/4 NPT	St				1.0000	ea		WH		N	
248	6313401	PLUG SOC HEAD THD 0.125 BRS	St				1.0000	ea		WH		N	
249	6501202	BRACKET FILTER HOUSING DUAL	St				1.0000	ea		WH		N	
250	10596032	SCREW SELF TAPPING 1/4-14x1/2	St				8.0000	ea		VMW		N	
251	6313352	ADAPTER TxFPT 0.25 PARKER	St				3.0000	ea		VMW		N	
252	6313511	BUSH TxT 1.0x0.75 BRS	St				2.0000	ea		WH		N	
253	6312104	VALVE SOL 24VAC 1.0 ASCO	St				1.0000	ea		WH		N	
254	6028007	VALVE CHECK 0.75 PVC	St				1.0000	ea		WH		N	
300	1000593	TANK BREAK ASSY 6/4M10	Cu				1.0000	ea		WH		N	
310	156988	MEMLOG2	St				1.0000	ea		WH		N	
320	156987	CABLE MEMLOG2 - PC	St				1.0000	ea		WH		N	
330	A0007272L	ANCHOR WEDGE 1/2x5 1/2 304	St				4.0000	ea		VMW		N	
340	1000241	ADHESIVE CARTRIDGE NSF EPOXY	St				1.0000	ea		WH		N	
350	2602574014	ADAPTER FLANGE 2 BTM DRN TxT	Cu				1.0000	ea		WH		N	



THIS DRAWING NOT COMPLETE WITHOUT ASSOCIATED BILL OF MATERIAL

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	CONSTRUCTION ISSUE	09/13/04	HS	HS	BG	
B	SUBMITTAL ISSUE	08/27/04	HS	HS	BG	

TITLE ELECTRICAL PANEL LAYOUT
6M10C CMF UNITS
230VAC 1Ø 60Hz

CLIENT PINEWOOD SPRINGS WATER DISTRICT

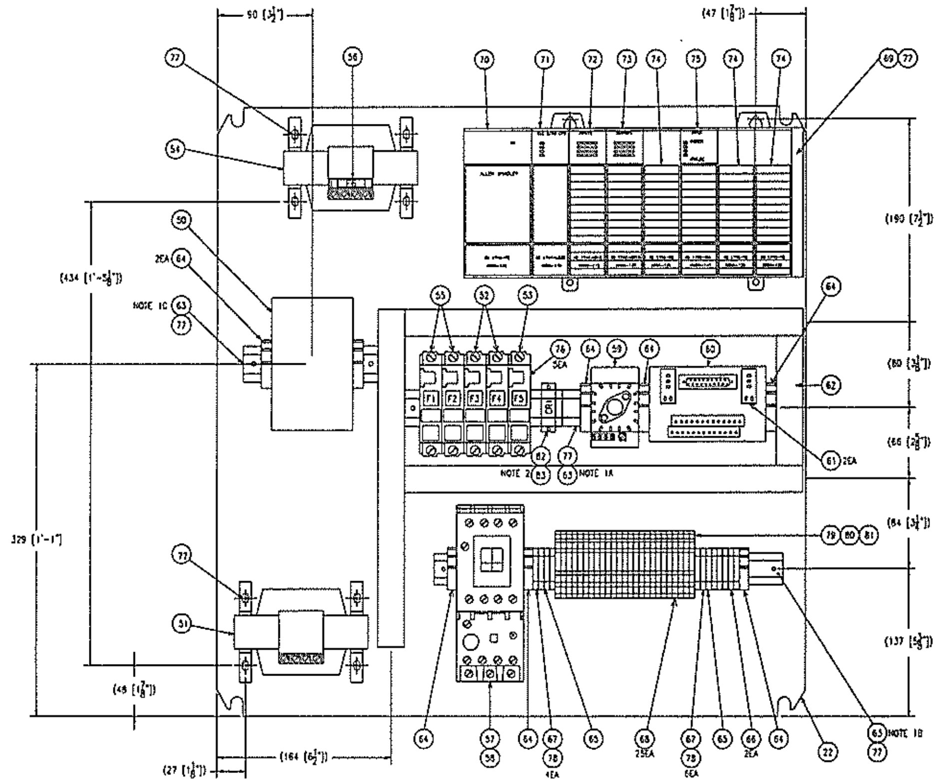
USFilter
WTC MEMCOR, MICROFLOC & GENERAL FILTER
TOWSON, MARYLAND 21204
TEL - 1-800-635-2674

PROJECT	CODE	DRAWING	SHEET	REV
260257		260257-7103	1 OF 5	C

FILE: 260257-7103
SCALE: 2

BAR = 1" AT PLOT SCALE

STD. BORDER-1101-24X3601
INTL REF:



INTERIOR PANEL LAYOUT

THIS DRAWING NOT COMPLETE WITHOUT ASSOCIATED BILL OF MATERIAL

NOTES:

1. LISTED ARE THE APPROXIMATE LENGTHS OF ITEM #25
   A. 375MM
   B. 375MM
   C. 130MM
2. ADDITIONAL RELAY AND BASE ADDED TO BOM FOR FIELD INSTALLATION IN EXISTING CMF UNIT

TOLERANCES
Linear: +,- 1.5mm (1/16")
Angular: +,- 1.0 DEG.
UNLESS NOTED OTHERWISE

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	CONSTRUCTION ISSUE	09/10/04	HS	HS	BC	
B	SUBMITTAL ISSUE	08/27/04	HS	HS	BC	

TITLE: ELECTRICAL PANEL LAYOUT
6M10C CMF UNITS
230VAC 1Ø 60Hz

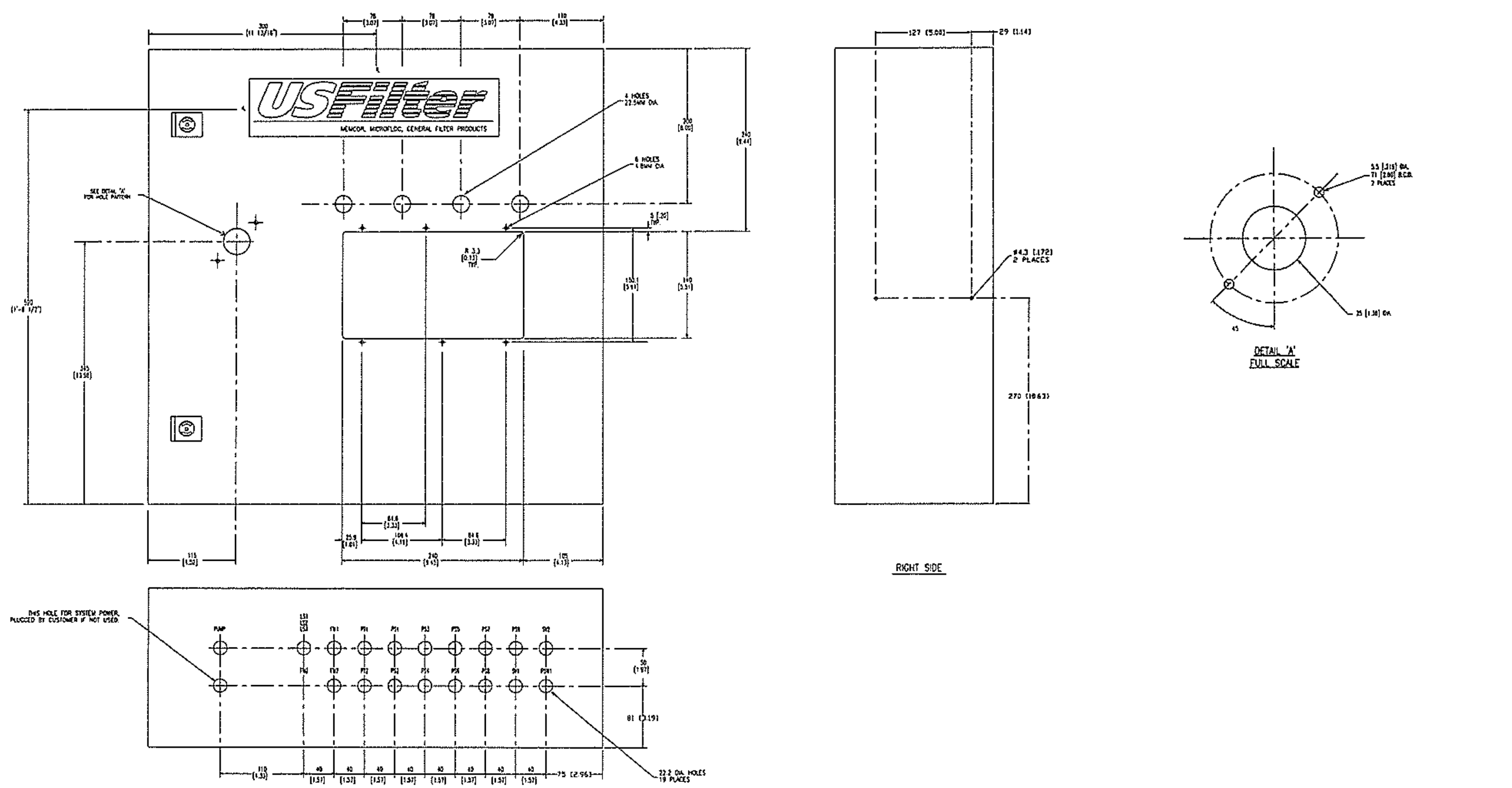
CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter — WTC MEMCOR, MICROFLOC & GENERAL FILTER, TOWSON, MARYLAND 21204, TEL - 1-800-636-2674

FILE: 260257-7103
SCALE: 2

PROJECT	CODE	DRAWING	SHEET	REV
260257		260257-7103	2 OF 5	C

STD_BORDER-1101-24X36D1 | INIT. REF. | BAR = 1" AT PLOT SCALE



THIS DRAWING NOT COMPLETE WITHOUT ASSOCIATED BILL OF MATERIAL

TOLERANCES
Linear: +/- 1.5mm [1/16"]
Angular: +/- 1.0 DEG.
UNLESS NOTED OTHERWISE

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	CONSTRUCTION ISSUE	09/10/04	HS	HS	BG	
B	SUBMITTAL ISSUE	06/21/04	HS	HS	BG	

TITLE: ELECTRICAL PANEL LAYOUT
6M10C CMF UNITS
230VAC 1Ø 60Hz

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

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TOWSON, MARYLAND 21204
TEL - 1-800-636-2674

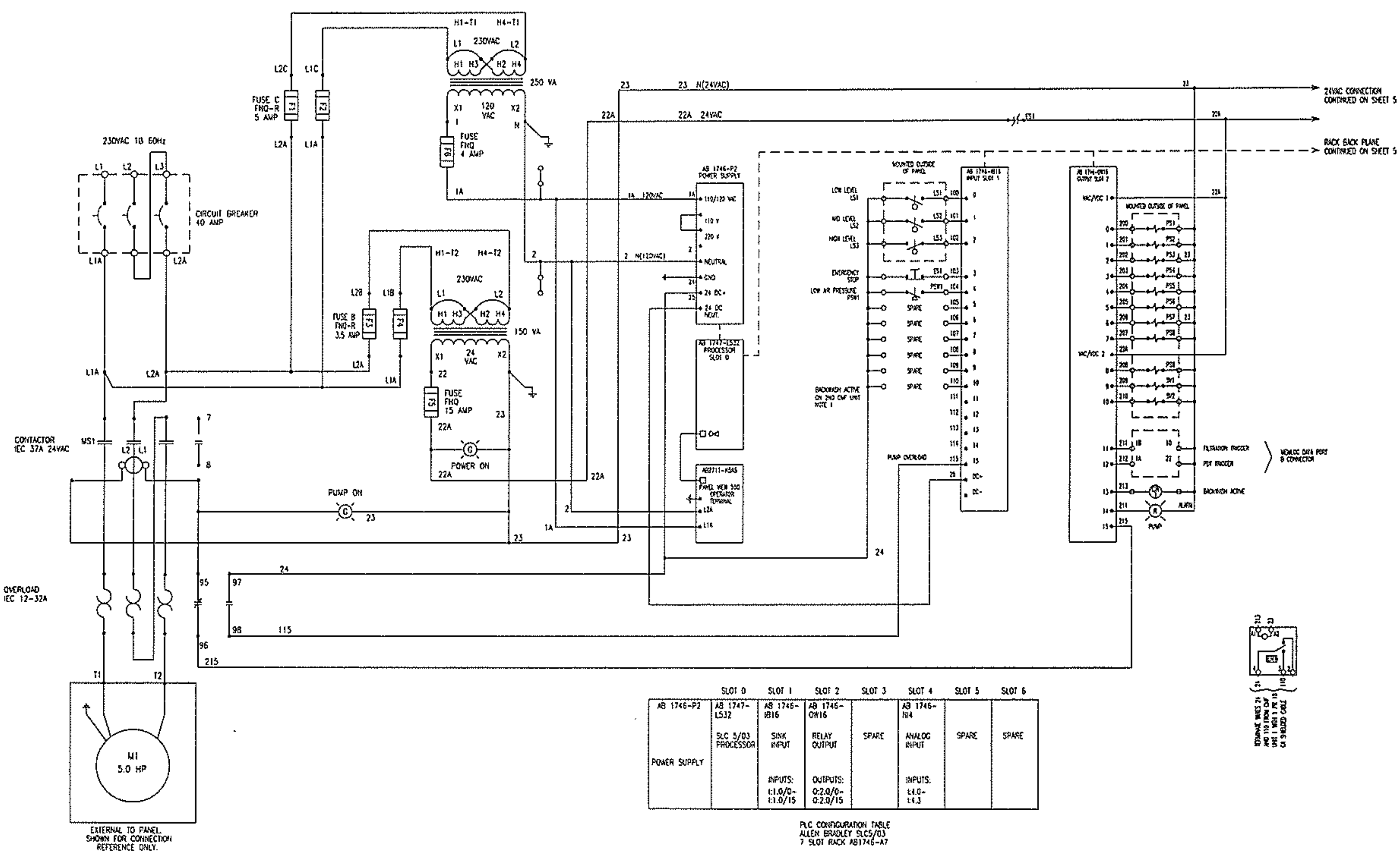
FILE: 260257-7103
SCALE: 2.5

PROJECT	CODE	DRAWING	SHEET	REV
260257		260257-7103	3 OF 5	C

INTL REF:

BAR = 1" AT PLOT SCALE

TO: BORDER-1101-24X36D1



AB 1746-P2	SLOT 0	SLOT 1	SLOT 2	SLOT 3	SLOT 4	SLOT 5	SLOT 6
POWER SUPPLY	AB 1747-L532 SLC 5/03 PROCESSOR	AB 1746-IB16 SINK INPUT INPUTS: I:1.0/0-I:1.0/15	AB 1746-OW16 RELAY OUTPUT OUTPUTS: O:2.0/0-O:2.0/15	SPARE	AB 1746-NI4 ANALOG INPUT INPUTS: I:4.0-I:4.3	SPARE	SPARE

PLC CONFIGURATION TABLE
ALLEN BRADLEY SLC5/03
7 SLOT RACK AB1746-A7

NOTES:
1. INPUT 110 IS ROUTED THROUGH CR1 OF CMF UNIT 1 (TERMINAL 3 & 4 OF CR1)

WIRE COLOR CODE:
230/460VAC UNGROUNDED - BLACK
120VAC UNGROUNDED - RED
24VAC UNGROUNDED - BROWN
24VAC NEUTRAL/GROUNDED - WHITE
UNGROUNDED, ENERGIZED POWER OFF - YELLOW OR ORANGE
DC (+) UNGROUNDED - BLUE
DC (-) - BLUE W/WHITE TRACER
EQUIPMENT GROUND - GREEN OR GRN/YEL
SIGNAL POSITIVE - WHITE
SIGNAL NEGATIVE - BLACK
POSITIVE SUPPLY 3 WIRE APPLICATION - RED
INTL REF:

BAR = 1" AT PLOT SCALE

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	CONSTRUCTION ISSUE	09/10/04	HS	HS	BG	
B	SUBMITTAL ISSUE	08/27/04	HS	HS	BG	

DESIGNER / DATE
CHECKER / DATE
ENGINEER / DATE
MANAGER / DATE
FILE: 260257-7103
SCALE: NONE

TITLE: ELECTRICAL PANEL LAYOUT
6M10C CMF UNITS
230VAC 1Ø 60Hz
CLIENT: PINEWOOD SPRINGS WATER DISTRICT

USFilter
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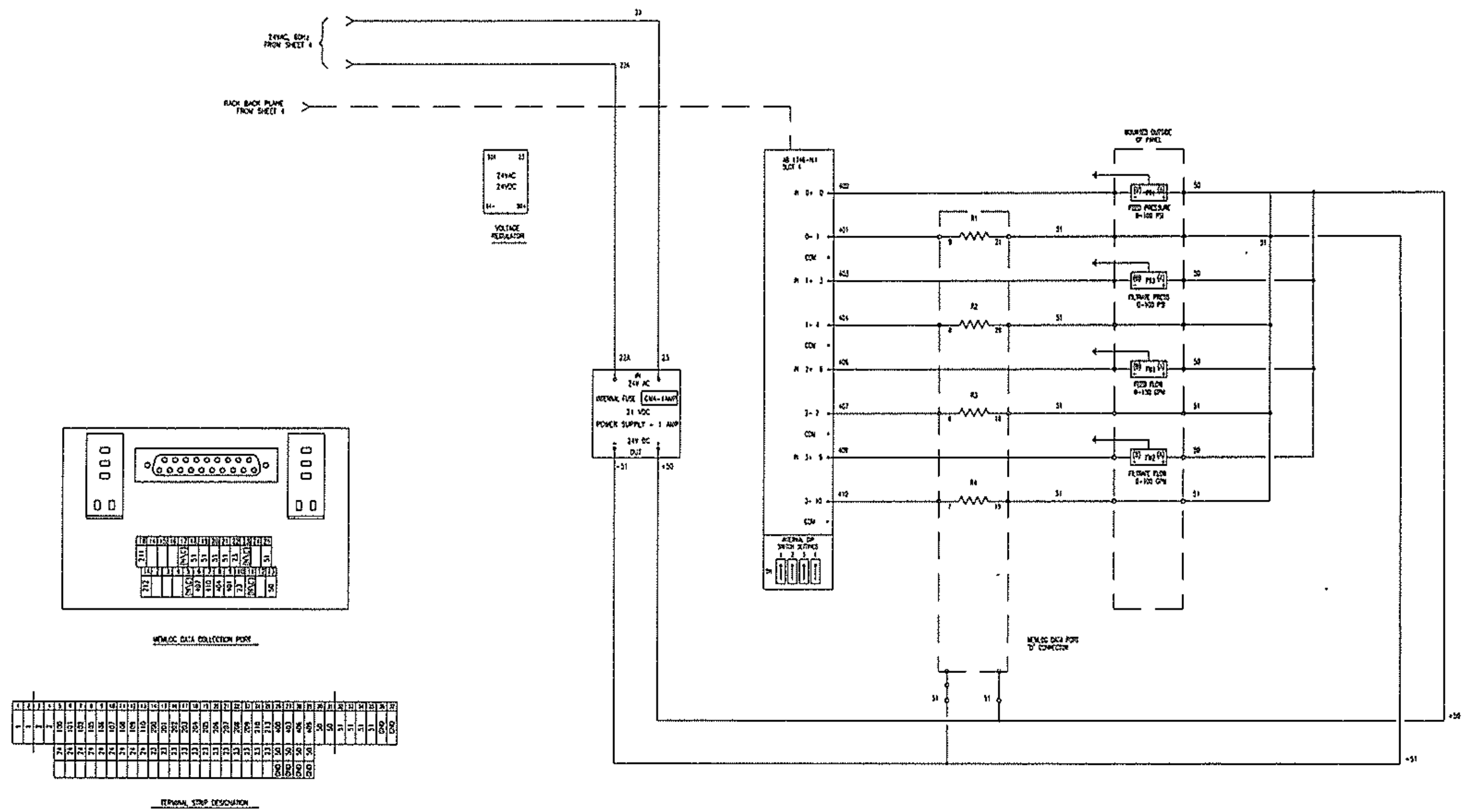
TOWSON, MARYLAND 21204
TEL - 1-800-636-2674

PROJECT: 260257 | CODE: | DRAWING: 260257-7103 | SHEET: 4 OF 5 | REV: C

ID: BORDER-1101-24X3601



WIRE COLOR CODE:

230/460VAC UNGROUNDED	- BLACK
120VAC UNGROUNDED	- RED
24VAC UNGROUNDED	- BROWN
24VAC NEUTRAL/GROUNDED	- WHITE
UNGROUNDED, ENERGIZED POWER OFF	- YELLOW OR ORANGE
DC (+) UNGROUNDED	- BLUE
DC (-)	- BLUE W/WHITE TRACER
EQUIPMENT GROUND	- GREEN OR GRN/YEL
SIGNAL POSITIVE	- WHITE
SIGNAL NEGATIVE	- BLACK
POSITIVE SUPPLY 3 WIRE APPLICATION	- RED

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
C	CONSTRUCTION ISSUE	09/10/04	HS	HS	BG	
B	SUBMITTAL ISSUE	08/27/04	HS	HS	BG	

BAR = 1" AT PLOT SCALE

INTL REF:

ID: BORDER-1101-24X3601

DESIGNER	DATE
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	260257-7103
SCALE:	NONE

TITLE: ELECTRICAL PANEL LAYOUT
6M10C CMF UNITS
230VAC 1Ø 60Hz

CLIENT: PINEWOOD SPRINGS WATER DISTRICT

WTC MEMCOR, MICROFLOC & GENERAL FILTER
TOWSON, MARYLAND 21204
TEL - 1-800-636-2674

PROJECT	CODE	DRAWING	SHEET	REV
260257		260257-7103	5 OF 5	C

Project : 260257 Pinewood Springs Expansion, CO
BOM Pos.: 0 - 9999
Customer: 5518 PINEWOOD SPRINGS WATER DIST

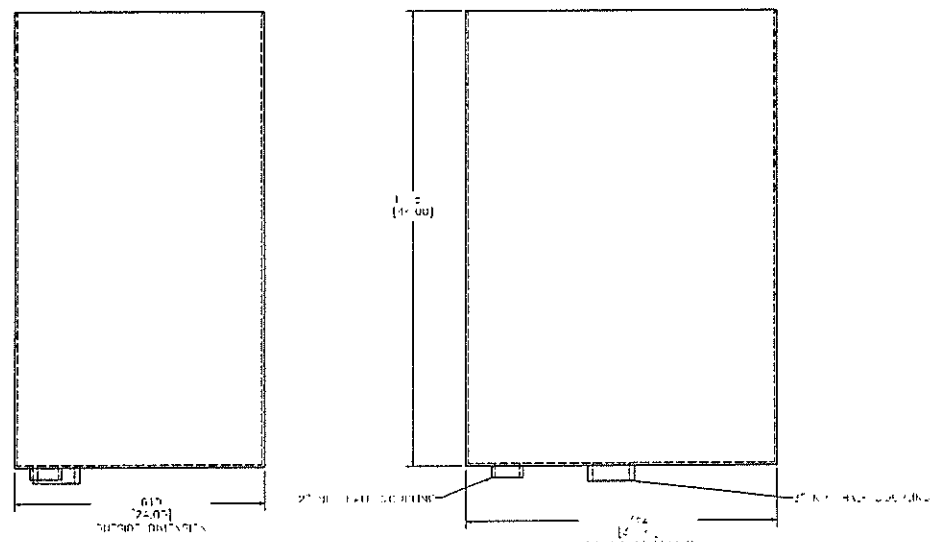
Status : Active
Start Date: 07-12-04
End Dt :

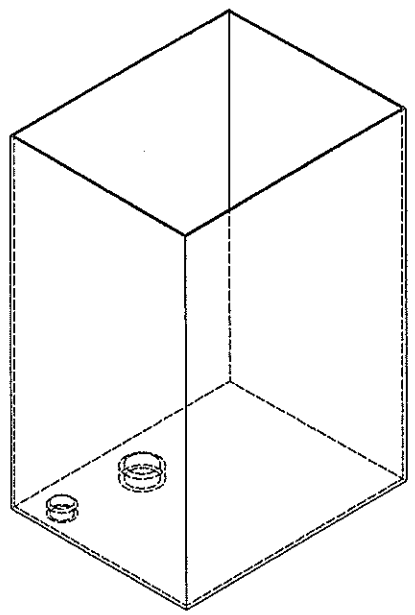
Pos.	Item Code	Description	Item Type	Length in)	Width (in)	No.of Units	Net Quantity	Un.	Scrap [%]	Wrh	Opr.	Ph.	Extra Info
Manufactured Item:	2602577103	PANEL ASSY 6M10 230/1/60										BOM Unit:	1 ea
1	6057102	ENCLOSURE NEMA4X 24x24x8 304SS	Cu				1.0000	ea		WH		N	
2	6009020	LABEL LARGE "USFILTER"	St				1.0000	ea		WH		N	
3	6311110	NAMEPLATE POWER ON	St				1.0000	ea		WH		Y	
4	6311114	NAMEPLATE PUMP ON	St				1.0000	ea		WH		N	
5	6311169	NAMEPLATE ALARM	St				1.0000	ea		IA		N	
6	6311126	NAMEPLATE EMER STOP	St				1.0000	ea		WH		N	
7	6310107	PILOT MINI W/O LENS 24V	St				3.0000	ea		IA		N	
8	6310114	PILOT MINI RED	St				1.0000	ea		IA		N	
9	6310115	PILOT MINI GRN	St				2.0000	ea		IA		N	
10	6309118	SWITCH PB MUSHROOM 1 NC RED	St				1.0000	ea		IA		N	
11	6309114	BLOCK CONTACT MINI 1NC	St				1.0000	ea		IA		N	
12	6009016	LABEL MAIN DISCONNECT	St				1.0000	ea		WH		Y	
13	6009017	LABEL WARNING DISCONNECT	St				1.0000	ea		WH		Y	
14	6309213	HANDLE DISCONNECT ASSY	Cu				1.0000	ea		IA		N	
15	288181202	LOCKNUT SEALING RACO #1202 1/2	St				17.0000	ea		VMW		N	
16	6303013	SWITCH PRESS ASCO 40-120PSI	St				1.0000	ea		WH		N	
17	6307020	CORD GRIP .12-.38 AL	St				15.0000	ea		VMW		N	
18	6307021	CORD GRIP .31-.56 AL	St				1.0000	ea		VMW		N	
19	6307402	CONDUIT FLEX CONN STR .5	St				1.0000	ea		VMW		N	
20	6056303	DISPLAY PANELVIEW KEY 550 MONO	Cu				1.0000	ea		IA		N	
21	6056304	CABLE COMM PANELVIEW	St				1.0000	ea		IA		N	
22	6057134	PANEL BACK 24X24 CONCEPT	Cu				1.0000	ea		WH		N	
50	6059540	BREAKER CIRCUIT 40 AMP 1 PH	St				1.0000	ea		IA		N	
51	6061005	TRANSFORMER 120/240-24 150VA	St				1.0000	ea		WH		N	
52	6059118	FUSE 3.5A FNQ-R	St				2.0000	ea		IA		N	
53	6059007	FUSE 15A FNQ	St				1.0000	ea		VMW		N	
54	6061103	TRANSFORMER 240/480-120 250VA	St				1.0000	ea		WH		N	
55	6059121	FUSE 5A FNQ-R	St				2.0000	ea		VMW		N	
56	6059119	FUSE 4A FNQ	St				1.0000	ea		IA		N	
57	6058030	CONTACTOR IEC 24AC 23AMP	St				1.0000	ea		WH		N	
58	6058231	COIL IEC OVERLOAD 12-32 AMP	St				1.0000	ea		IA		N	
59	6062002	POWER SUPPLY 24 - 27AC/24DC	St				1.0000	ea		WH		N	
60	6053060	INTERFACE ASSY MEMLOG	St				1.0000	ea		IA		N	
61	6306030	RELAY MIDGET 24VAC SPDT	St				2.0000	ea		VMW		N	
62	6055152	DUCT WIRE W/COVER 1.5x2.0 GREY	St				0.6666	ea		IA		N	
63	288010233	RAIL DIN ENTRELEC 35MMx7.5MM	St	35.00		1	0.4442	2m		VMW		N	
64	6053038	ANCHOR END PHOENIX #1201442	St				8.0000	ea		VMW		N	
65	6053033	PARTITION PLATE FOR UK4 UK16	St				2.0000	ea		VMW		N	
66	6053015	BLOCK TERM GND 22-12	St				2.0000	ea		VMW		N	
67	6053010	BLOCK TERM 22-12	St				10.0000	ea		VMW		N	
68	6053100	BLOCK CONTACT 3 LEVEL	St				25.0000	ea		VMW		N	
69	6056103	CHASSIS 7 SLOT #1746-A7 I/O	Cu				1.0000	ea		IA		N	
70	6056139	POWER SUPPLY SLC500 #1746-P2	Cu				1.0000	ea		IA		N	

Project : 260257 Pinewood Springs Expansion, CO
BOM Pos.: 0 - 9999
Customer: 5518 PINEWOOD SPRINGS WATER DIST

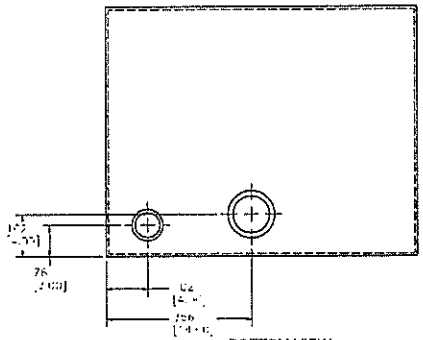
Status : Active
Start Date: 07-12-04
End Dt :

Pos.	Item Code	Description	Item Type	Length in)	Width [in]	No.of Units	Net Quantity	Un.	Scrap [%]	Wrh	Opr.	Ph.	Extra Info
Manufactured Item:	**2602577103**	**PANEL ASSY 6M10 230/1/60**										**BOM Unit:**	**1 ea**
71	6056176	MODULE CPU SLC5/03	Cu				1.0000	ea		IA		N	
72	6056119	MODULE INPUT DISC SLC500 16 DC	Cu				2.0000	ea		IA		N	
73	6056137	MODULE OUTPUT RELAY SLC500 16	Cu				1.0000	ea		IA		N	
74	6056129	MODULE SLOT FILLER SLC500	St				3.0000	ea		IA		N	
75	6056147	MODULE INPUT ANALOG SLC500	Cu				1.0000	ea		IA		N	
76	6053052	BLOCK FUSE 18-6AWG 600V	St				5.0000	ea		VMW		N	
77	6405059	SCREW HH S/D #10-5/8 ZPS	St				20.0000	ea		VMW		N	
78	6053030	BAR BRIDGE CNTR FOR UK4	St				1.0000	ea		VMW		N	
79	6053040	NUMBER TERM PHOENIX	St				1.0000	ea		VMW		N	
80	6053112	CONNECTOR BRIDGE DIK WHITE	St				1.0000	ea		VMW		N	
81	6053111	CONNECTOR BRIDGE DIK RED	St				1.0000	ea		VMW		N	
82	6306030	RELAY MIDGET 24VAC SPDT	St				2.0000	ea		VMW		N	
83	6306031	SOCKET DIN MT FLAT PIN SPDT	St				2.0000	ea		VMW		N	

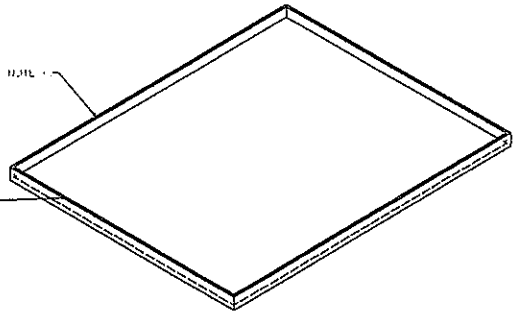




ISO VIEW

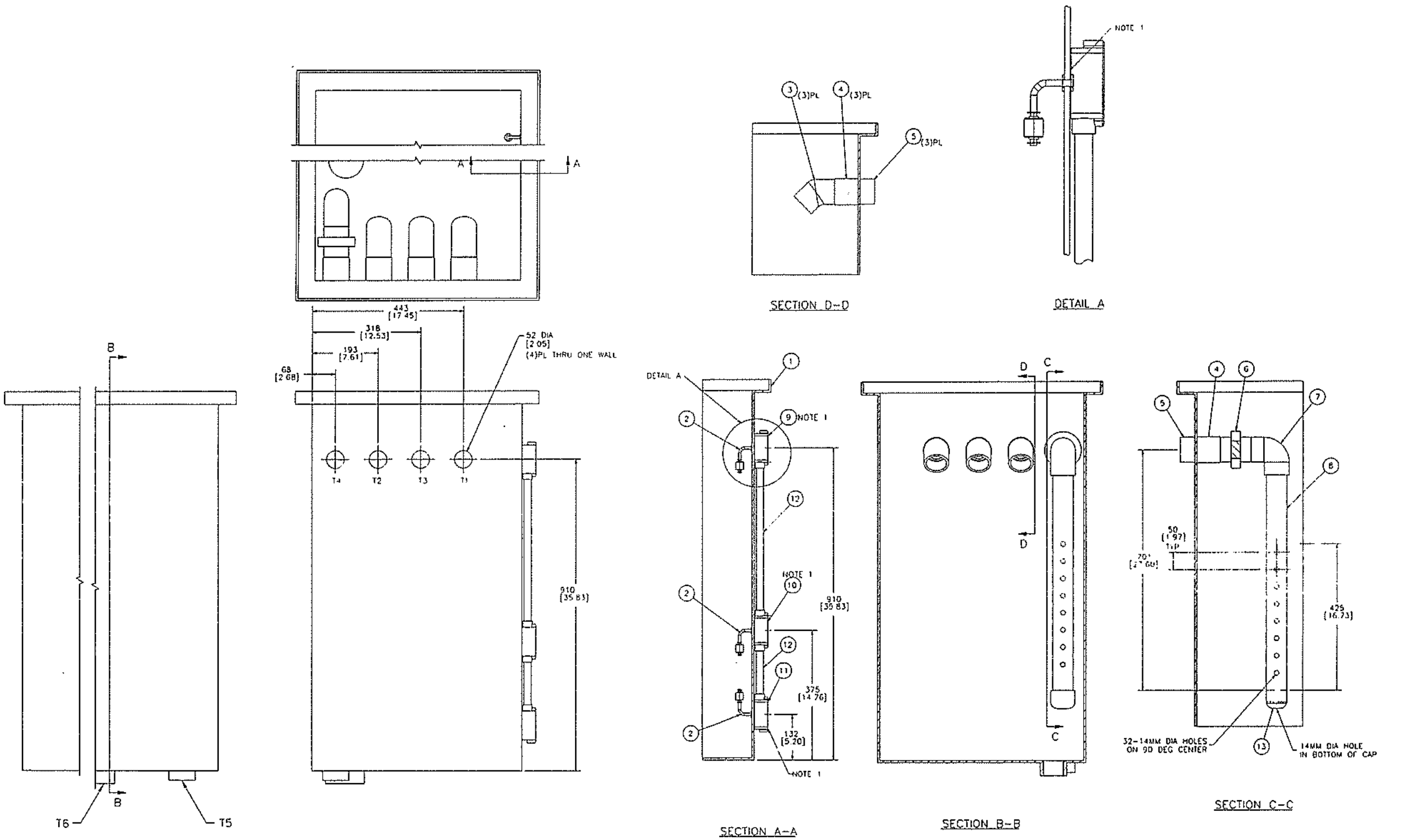


BOTTOM VIEW



LID DETAIL

USFilter



NOTES.

1. SILICONE TO TANK TO PREVENT LEAKS INTO CONDUITS.
2. ALL FITTINGS TO BE INSTALLED AFTER POSITIONING THE TANK IN THE FRAME

REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN
A	CONSTRUCTION ISSUE	04-25-2003	LVS	MSW	TM	06636
0	PRELIMINARY ISSUE	04-25-2003	LVS	---	---	---

DESIGNER L.SHEPPARD DATE 04/25/2003
CHECKER M.WALDO DATE 04-29-2003
ENGINEER T.MARKIEWICZ DATE 04-29-2003
MANAGER DATE
FILE: 1000593
SCALE: NONE

TITLE GM10 SERIES CMF UNIT PIPING ARRANGEMENT

CLIENT

USFilter — WTC MEMCOR, MICROFLOC & GENERAL FILTER, TOWSON, MARYLAND 21204, TEL – 1-800-636-2674

PROJECT	CODE	DRAWING	SHEET	REV
		1000593	1 OF 1	A

STD. BORDER-1101-24X3603 | INTL REF: | BAR = 1" AT PLOT SCALE

Project : 260257 Pinewood Springs Expansion, CO
BOM Pos.: 0 - 9999
Customer: 5518 PINEWOOD SPRINGS WATER DIST

Status : Active
Start Date: 07-12-04
End Dt :

Pos.	Item Code	Description	Item Type	Length in]	Width [in]	No.of Units	Net Quantity	Un.	Scrap [%]	Wrh	Opr.	Ph.	Extra Info
Manufactured Item:	**1000593**	**TANK BREAK ASSY 6/4M10**										**BOM Unit:**	**1 ea**
1	6150195	TANK WHITE 130GAL FRP	St				1.0000	ea		WH		N	
2	6309300	SWITCH LEVEL 90 RFS4-2 SS	St				3.0000	ea		IA		N	
3	6012120	ELL 45DEG SCH80 SOC 2.0 PVC	St				3.0000	ea		VMW		N	
4	72315	ADAPTER SCH80 FEMALE 2.0 PVC	St				4.0000	ea		VMW		N	
5	A0001279F	ADAPTER SCH80 M 2.0 PVC	St				4.0000	ea		VMW		N	
6	850897020	UNION SCH80 SOC 2.0 PVC	St				1.0000	ea		VMW		N	
7	A0001283F	ELL 90DEG SCH80 SOC 2.0 PVC	St				1.0000	ea		VMW		N	
8	157088020	PIPE PVC 2.0 SCH80x20FT	St	40.00		1	0.1667	s20	15	MR		N	
9	6307500	CONDUIT TYPE E 0.5	St				1.0000	ea		WH		N	
10	6307503	CONDUIT BODY TYPE C E987D	St				1.0000	ea		VMW		N	
11	6307501	CONDUIT TYPE LR 0.5	St				1.0000	ea		WH		N	
12	157028020	PIPE PVC 0.5 SCH80x20FT	St	30.00		1	0.1250	s20	15	MR		N	
13	A0001291F	CAP SCH80 SOC 2.0 PVC	St				1.0000	ea		VMW		N	