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**Submittal**

Number: SO24014 Date: **05-Jan-23**

**Submitted To:**

Drake Oppold

**To:**

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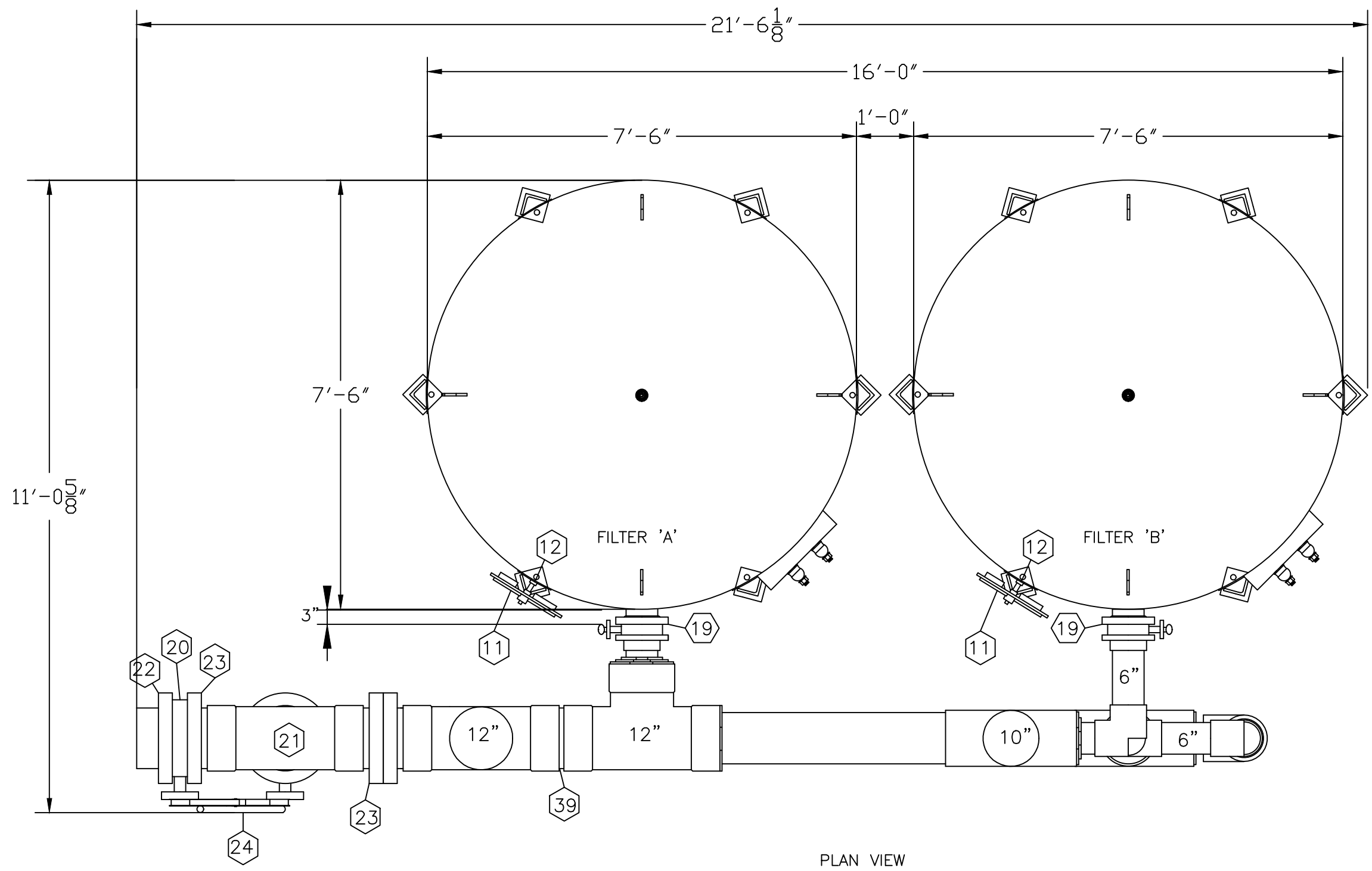
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**Project Name:** **Geneva Park Filter Replacement**

**Project Manager:** Trevor Ottley  
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**PHONE #** 803-372-6088

Qty	Description	Drawing	Approval
2	<b>VC3-A516-90-132.57</b> Filter Paddock Verticel 3 Cell Carbon Coated 90"Dia 132.57sf - Face Piping with Tees and Valves and Manual Linkage, Gauges, Air Relief, Media	Drawing	



PLAN VIEW

NOTES:

1. **TANK MATERIAL:**  
CARBON STEEL: SIDE SHELL TYPE: ASME A-516, GR. 70 (96"x282"x1/4" THK.)  
HEAD TYPE: ASME A-516 3/8" THICK FLANGED & DISHED 84" D.R.,  
1 1/2" S.F., 5 1/2" KR  
DIVIDER HEADS TYPE: ASME A-516 1/4" THICK DISHED ONLY 198" D.R.

2. **FINISH:**  
INTERIOR SURFACES TO BE COATED WITH AN NSF CERTIFIED CHEMICAL  
AND SOLVENT RESISTANT TWO COMPONENT CERAMIC EPOXY.

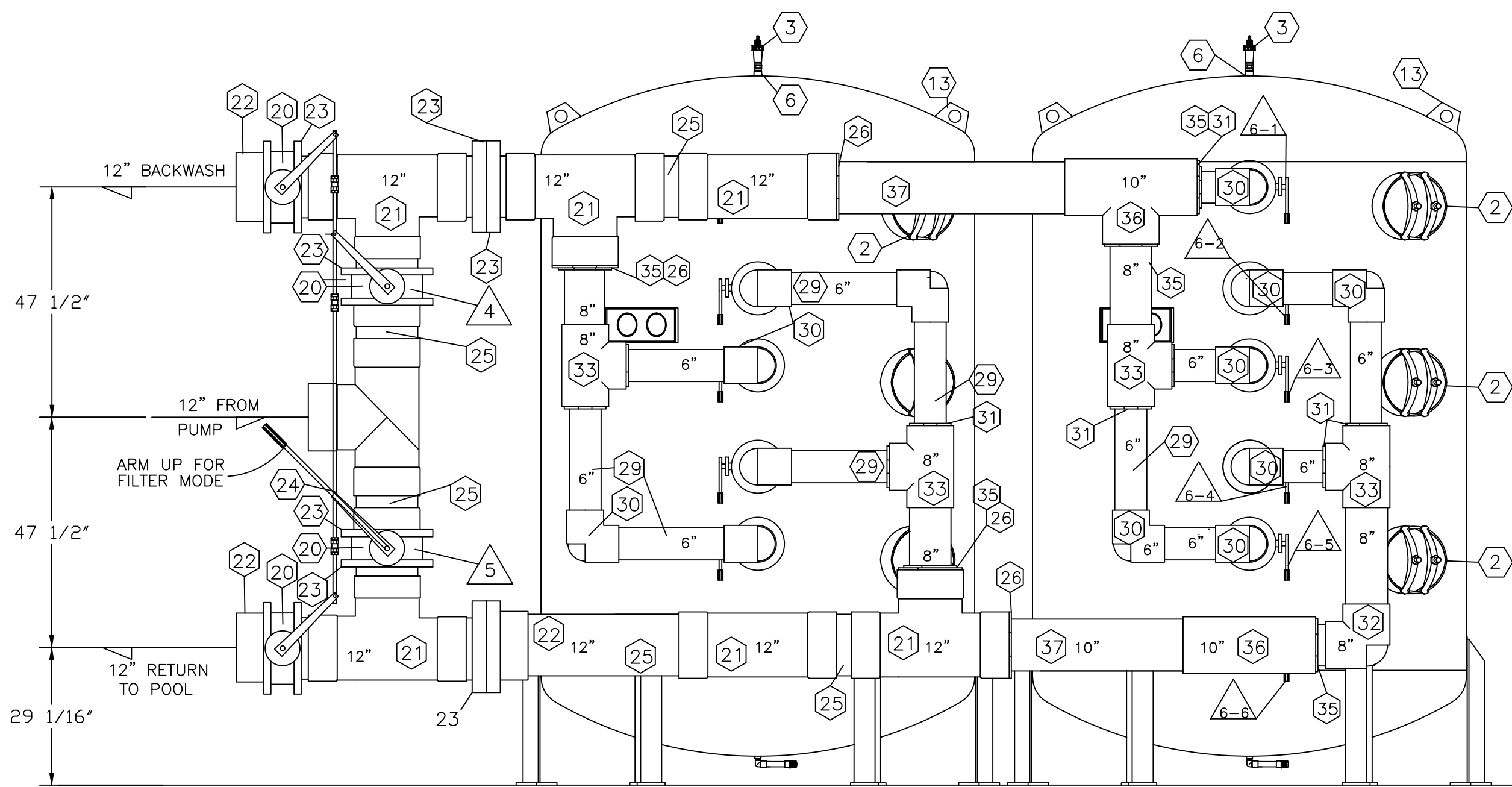
- EXTERIOR SURFACES TO BE COATED WITH BLUE PAD-COTE, AN NSF  
LISTED CHEMICALLY CURED SEMI-GLOSS EPOXY.  
PREPARATION: BLAST TO NEAR WHITE METAL, CLEAN WELDS, REMOVE  
WELD SPLATTER.  
APPLICATION: BY SPRAY, BRUSH, OR ROLLER TO (6)-(8) MILS  
THICKNESS (DRY).  
CURE FOR (7) DAYS BEFORE PUTTING FILTER INTO SERVICE.  
ALL INTERIOR WELDS & BURN-THROUGHS TO BE COATED  
W/BITUMASTIC 300M.

3. RECIRCULATION RATE = 2534 GPM  
4. FILTER AREA = 44.19 SQ.FT./CELL ; 265.14 SQ.FT. TOTAL  
5. FILTER RATE = 9.56 GPM/SQ.FT.  
6. OPERATING PRESSURE = 50 PSI  
TEST PRESSURE = 65 PSI  
7. ALL PIPING AND COUPLINGS THAT PENETRATE TANK TO BE STAINLESS STEEL.  
8. INTERCONNECTING PIPING: SCHEDULE 80 PVC; MAX. VELOCITY LESS THAN 10 FPS  
9. WAFER VALVES SHALL BE BRAY SERIES 30 WITH A EPOXY COATED BODY,  
NYLON COATED DISC, A 416 ST. ST. STEM, AND A EPDM SEAT.

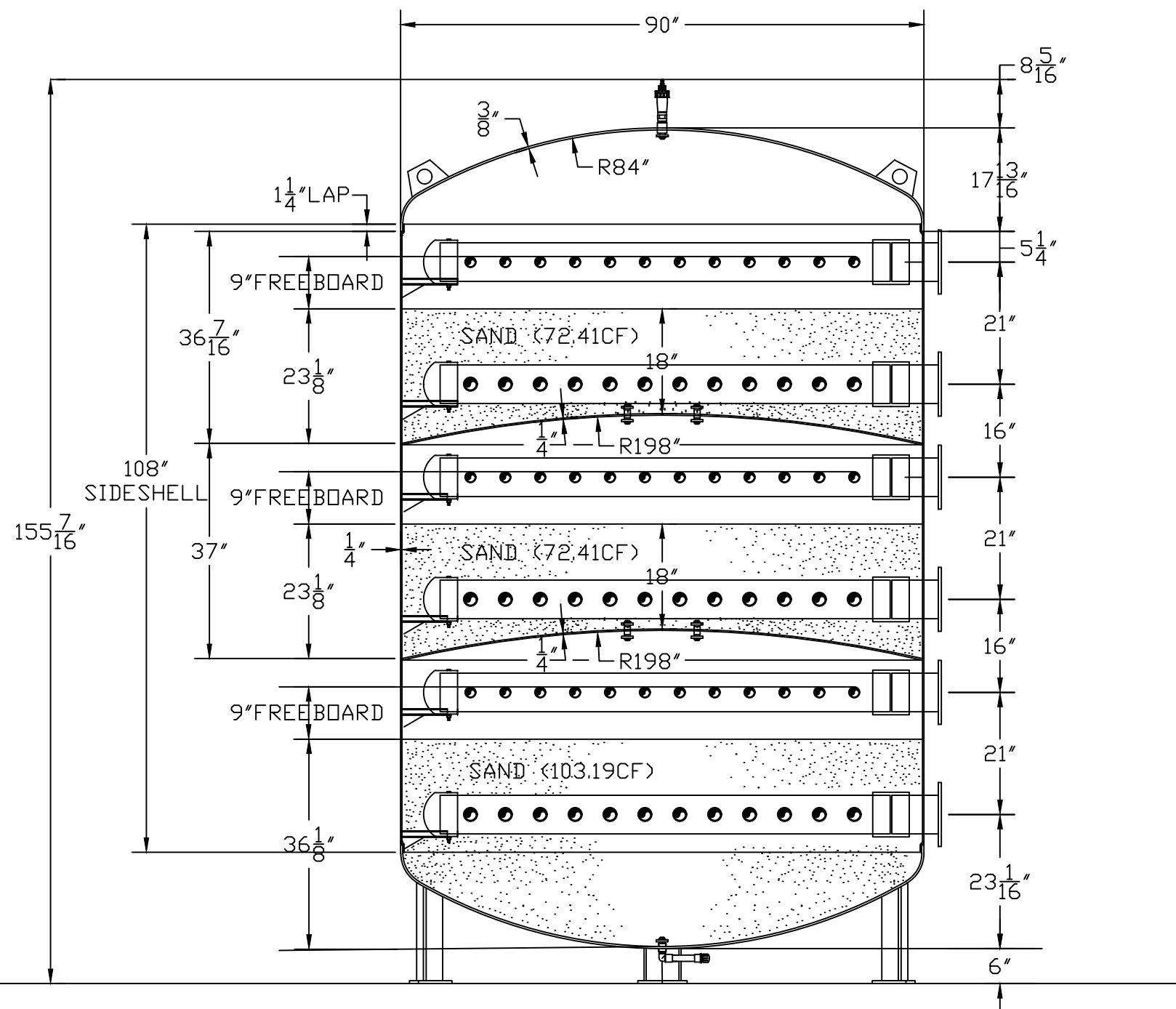
△ VALVE LEGEND

NO.	DESCRIPTION
2.	RETURN TO POOL
3.	BACKWASH TO WASTE
4.	FILTER INFLUENT
5.	BACKWASH INFLUENT
6-1	CELL #1 INFLUENT ISOLATION
6-2	CELL #1 EFFLUENT ISOLATION
6-3	CELL #2 INFLUENT ISOLATION
6-4	CELL #2 EFFLUENT ISOLATION
6-5	CELL #3 INFLUENT ISOLATION
6-6	CELL #3 EFFLUENT ISOLATION

-FILTER 'A' OR 'B'



FILTER ELEVATIONS




TYPICAL FILTER TANK SECTION

EQUIPMENT LIST

NO.	QTY.	DESCRIPTION
1	2	90" DIA. ASME CODE & LABEL CARBON STEEL TANK
2	6	14" X 18" MANHOLE W/ YOKES, GASKET & COVER
3	2	3/4" AUTOMATIC AIR RELIEF VALVE
4	2	3/4" TANK DRAIN W/ ELL, TEE, & PVC PIPE
5	12	3/4" ST.ST. STRAINER
6	12	3/4" STAINLESS STEEL COUPLING
7	6	6" OVERDRAIN SCH.80 PVC HEADER W/ 1 1/2" PVC LATERALS
8	6	6" PVC UNDERDRAIN HEADER W/2" SLOTTED SCREENED LATERALS
9	496	CU. FT. BAG OF FINE FILTER SAND (.45MM TO .55MM)
10	1	1 1/2" DIAMETER SIGHT GLASS (SHIP LOOSE)
11	2	GAUGE PANEL W/ 1/4" COPPER TUBING
12	2	1/2" GAUGE PANEL 1/2 COUPLING
13	8	LIFTING LUGS @ 90° O.C. A-516x1/2" THK.
14	8	TIE DOWN LUGS @ 90° O.C. A-516x1/2" THK.
15	4	STAINLESS STEEL HEADER SUPPORT TYPE 304x3/16" THK.
16	12	4 3/8"x4 3/8"x3/8" SS TANK LEG, 6"SQx1/2"THK. ANCH. PAD
16A	12	6"x8"x3/16" SS TANK LEG PAD
17	2	6" PVC SCH. 80 FEMALE ADAPTOR
18	6	6" X 6 1/4" STAINLESS STEEL SCH.40 NIPPLES (T.O.E.)
19	12	6"x11" ST.ST. PLATE FLANGE
20	4	12" BRAY, WAFER VALVE (SEE NOTE #10) W/BOLT SET
21	7	12" SCH.80 PVC TEE
22	4	12" SCH.80 PVC SOCKET FLANGE
23	9	12" SCH.80 PVC SPIGOT FLANGE
24	1	12" ST.ST. LINKAGE ASSEMBLY
25	5	12" PIPE, PVC, SCH 80
26	6	12" X 10" BUSHING, PVC, SOCKET, SCH 80
27	12	6" VALVE, BRAY, WITH BOLT SET
28	12	6" X 11" FLANGE, SOCKET, PVC, SCH 80
29	25	6" PIPE, PVC, SCH 80
30	13	6" ELL, 90°, PVC, SOCKET
31	12	8" X 6" BUSHING, PVC, SOCKET, SCH 80
32	1	8" ELL, 90°,PVC, SOCKET, SCH 80
33	4	8" TEE, PVC, SOCKET, SCH 80
34	5	8" PIPE, PVC, SCH 80
35	7	10" X 8" BUSHING, PVC, SOCKET, SCH 80
36	2	10" TEE, PVC, SOCKET, SCH 80
37	2	10" PIPE,PVC,SCH.80
38		
39		
40		

RECOMMENDED MAINTENANCE SPACE	
LENGTH	22'-0"
WIDTH	13'-0"
HEIGHT	13'-0"

**NOTE:**  
PRESSURE VESSELS

**CUSTOMER CHECK TO ENSURE  
THAT ALL LATERAL SLOTS  
ARE FACING DOWN & END  
LATERALS ARE PLUGGED PRIOR  
TO INSTALLING MEDIA.**



Certified to  
NSF/ANSI Standard 50

GENEVA PARK DISTRICT GENEVA, ILLINOIS (2) UNIT 90" DIA. CODE & LABEL CARBON STEEL 3-CELL VERTICAL SAND FILTER	DRAWN BY	M.J.G.
	DATE	11-8-23
	DRAWING NO.	S-4020-1
 <b>PADDOCK</b> POOL EQUIPMENT COMPANY		ROCK HILL, S.C. 29730