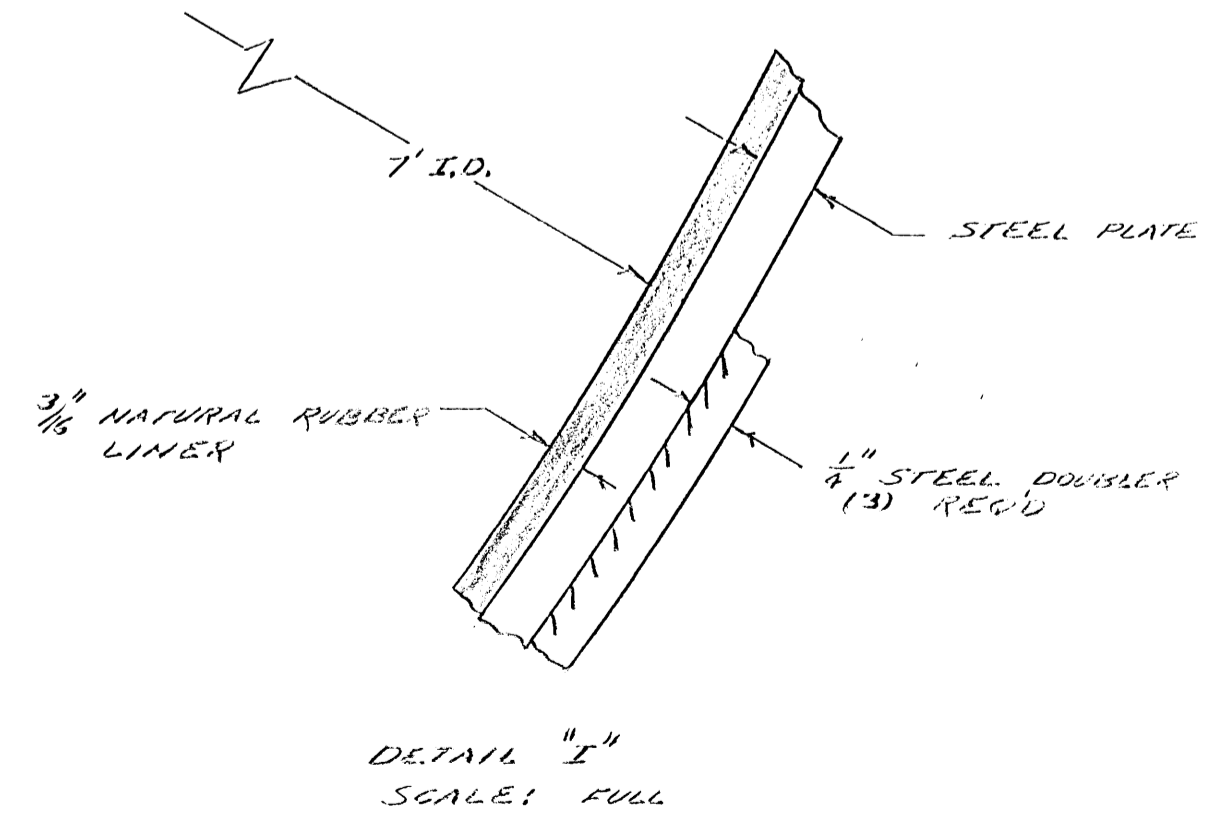
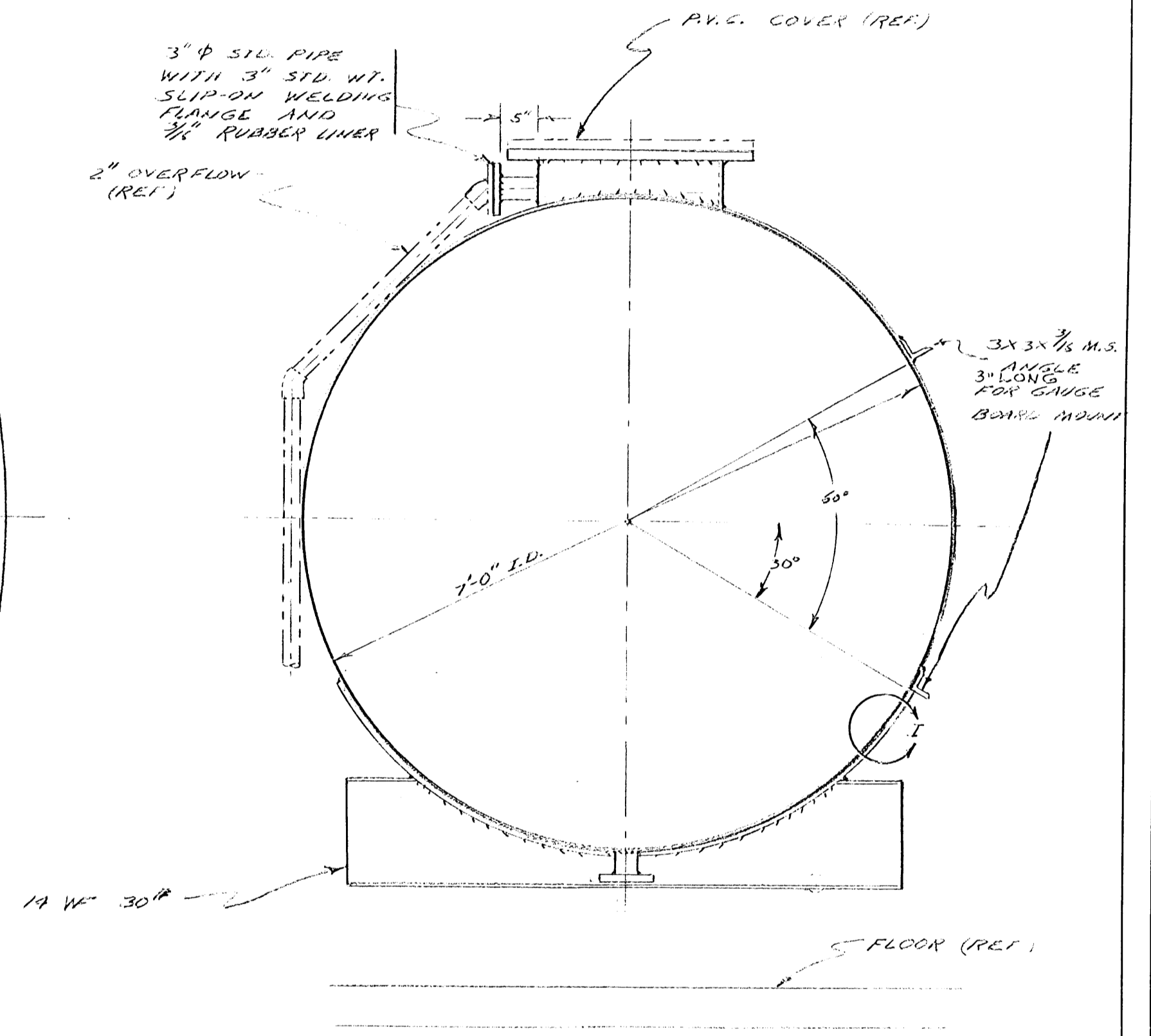
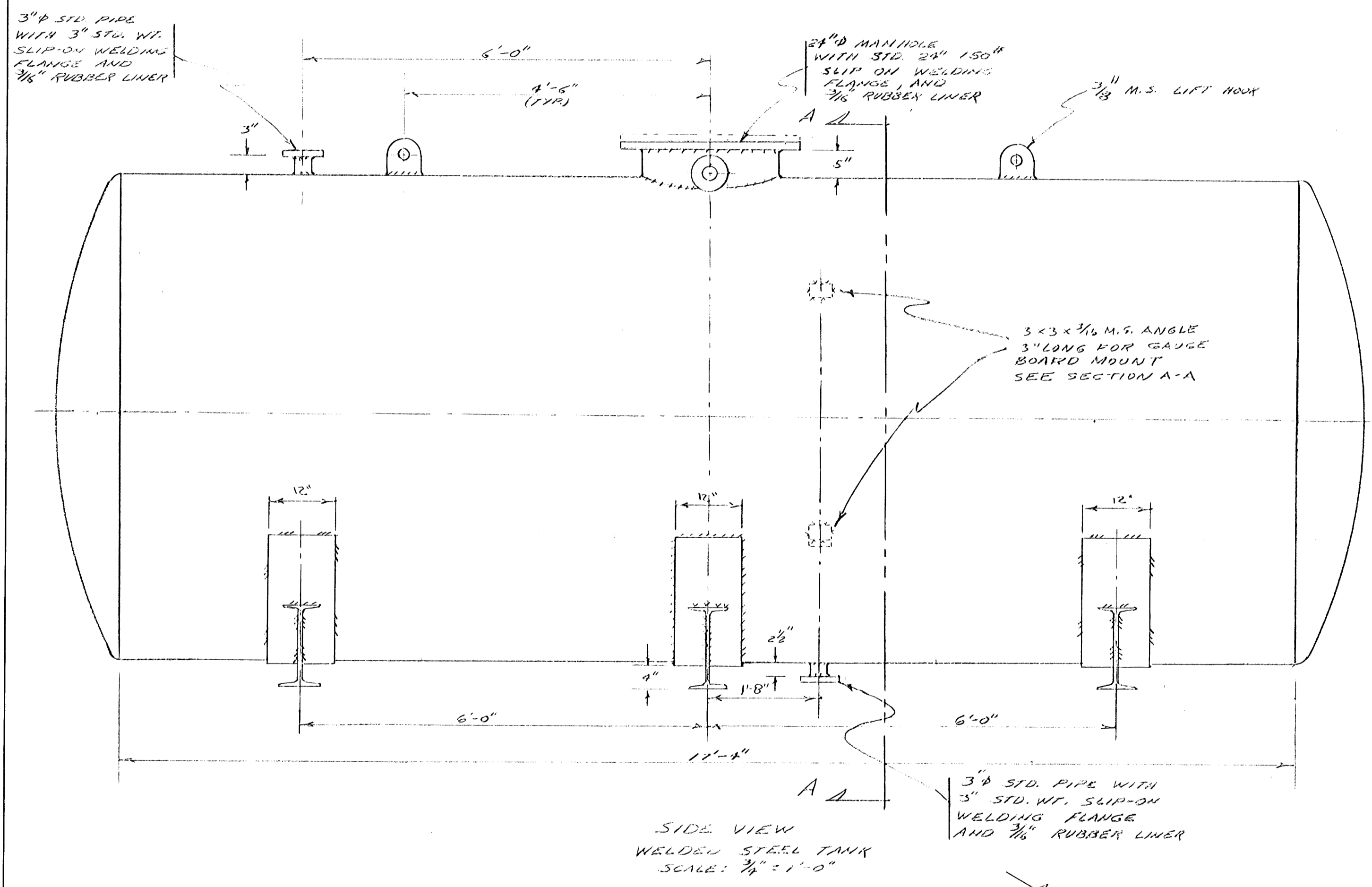


GENERAL NOTES

TANK DESIGN: 30 PSI ASME CODE
 CAPACITY: 5000 GALLONS
 MATERIAL TO BE HANDLED: ALUM LIQUOR
 SP. GR. 1.3551 (78° @ 60°F)
 PH 3.5 1% SOLUTION
 WT. PER GAL @ 60°F: 11.081 #
 LINING: 3/16" THICK, SOFT NATURAL RUBBER,
 TO BE ELECTRICALLY TESTED FOR
 PINHOLES.



NOTE: THIS TANK IS FOR CORROSIVE ALUM LIQUOR; THEREFORE THE 3/16\"/>

ALBANY, OREGON
 WATER FILTRATION PLANT
 CHEMICAL BUILDING
 5000 GAL. LIQUID ALUM TANK
 PACIFIC POWER & LIGHT COMPANY
 PORTLAND, OREGON

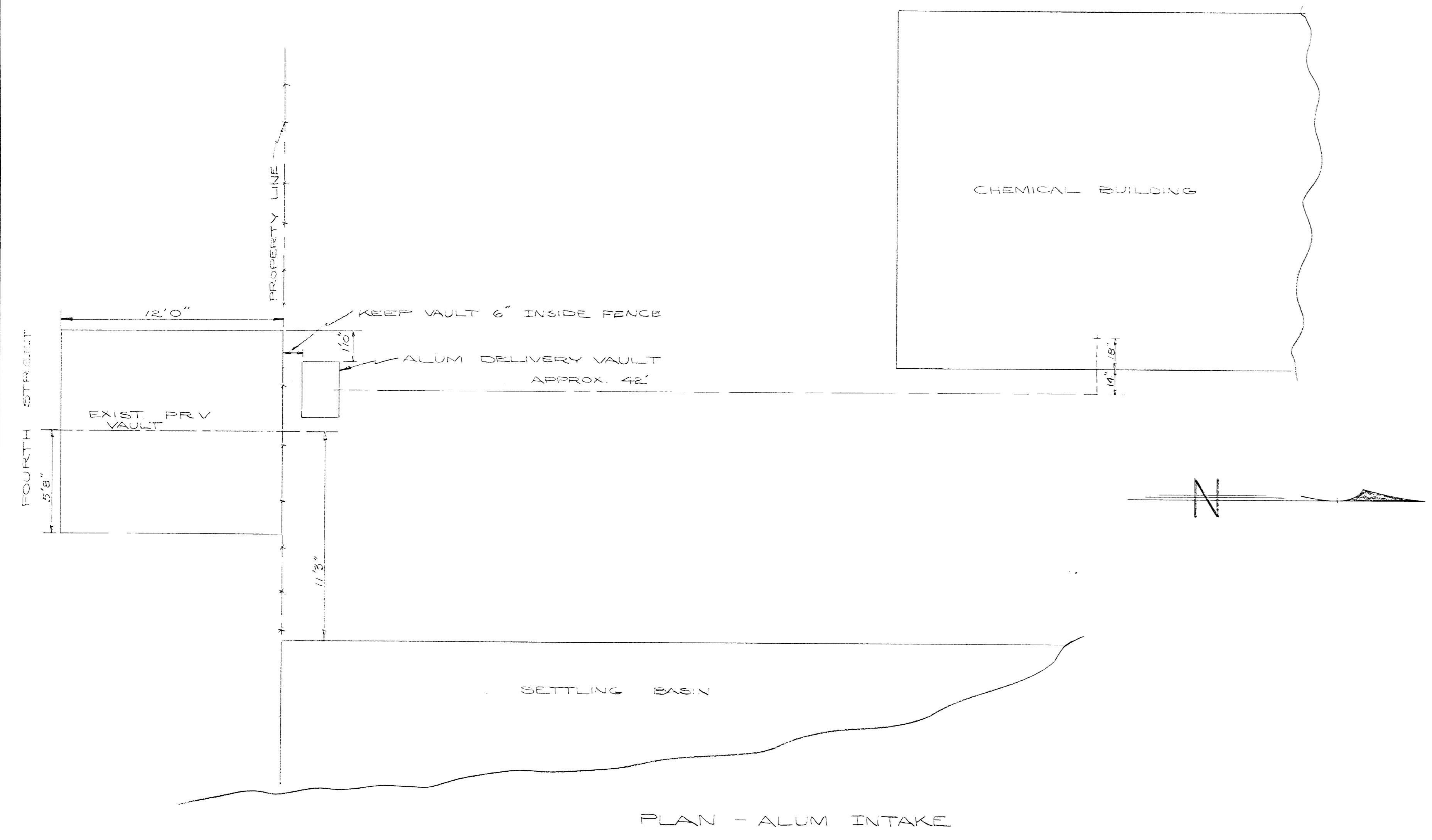
ER 33-14347-986

DRAWN	G.A.S.	1/10	1963
TRACED		19	
CHECKED		19	
APPROVED	J.H.K.	1/14	1963

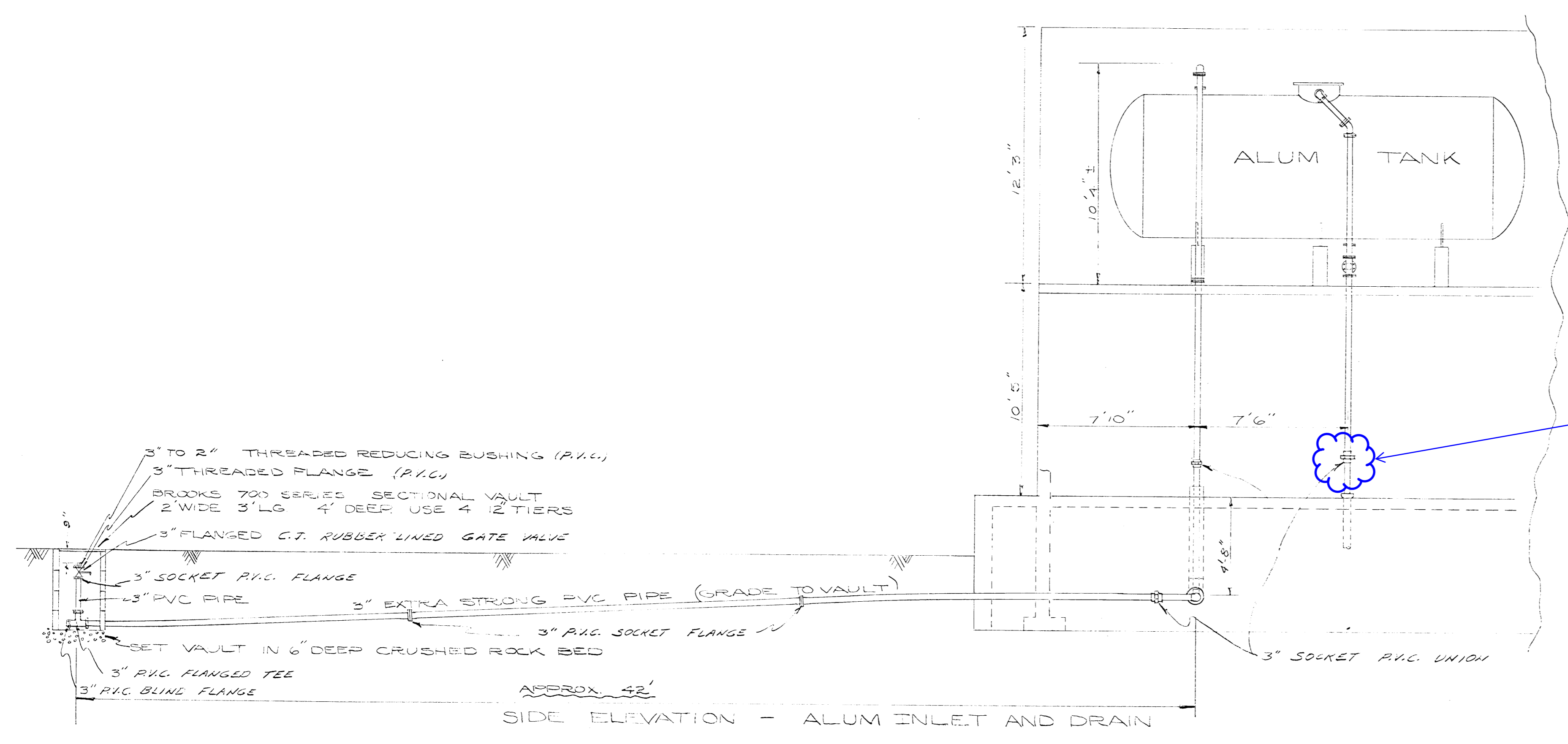
NO.	DATE	REVISION	BY	CH	CORR	APP

SCALE: NOTED
 APPROVED *[Signature]*

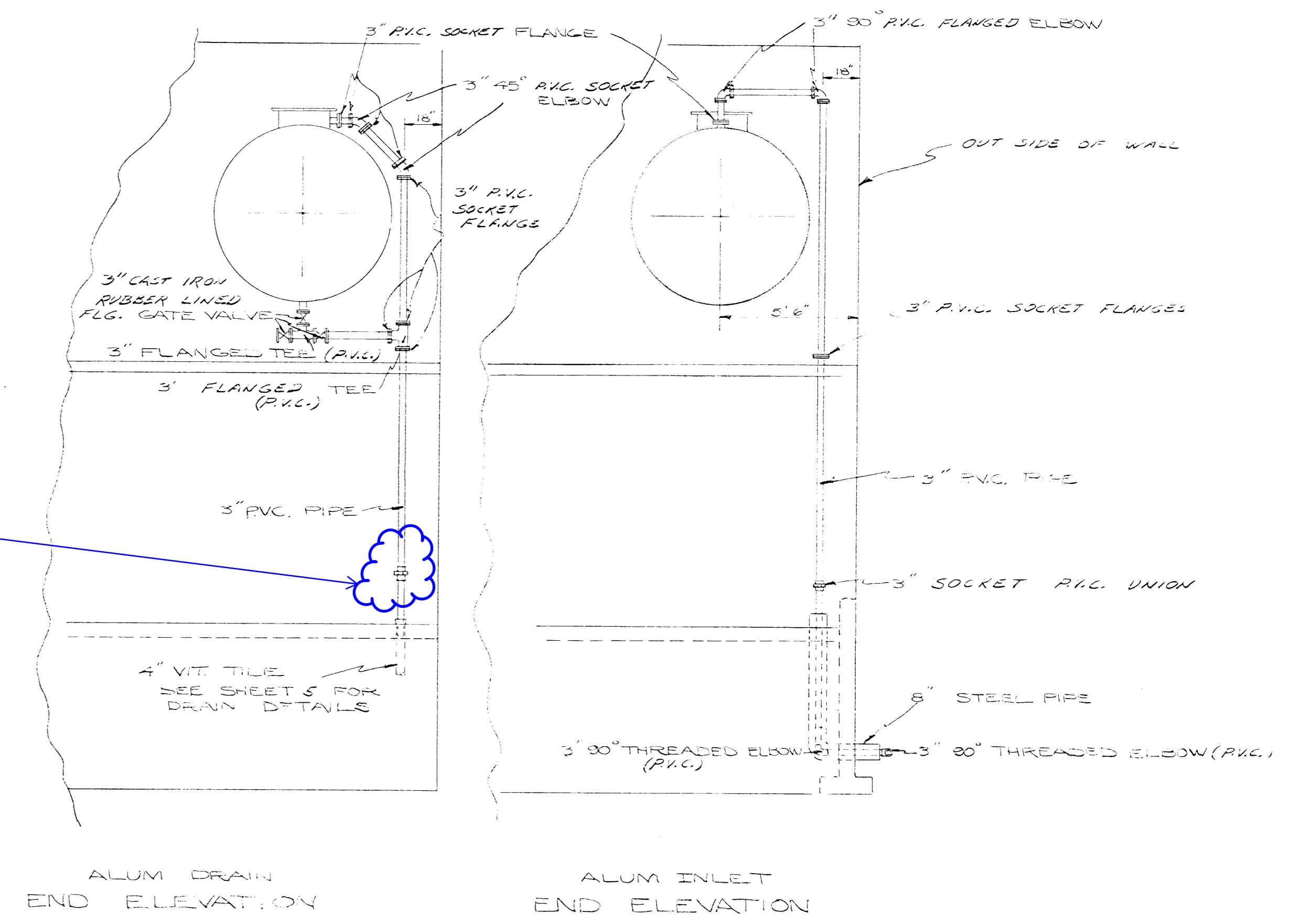
ENGR
 PD-18757



NOTE: FOR ADDITIONAL ALUM TANK PIPING DETAILS SEE SHEET # 17



Union between water heaters where drain line could be opened to drain tank. However, I would prefer to drain the tank using the pipe that supplies the chem feed pumps. See next page.

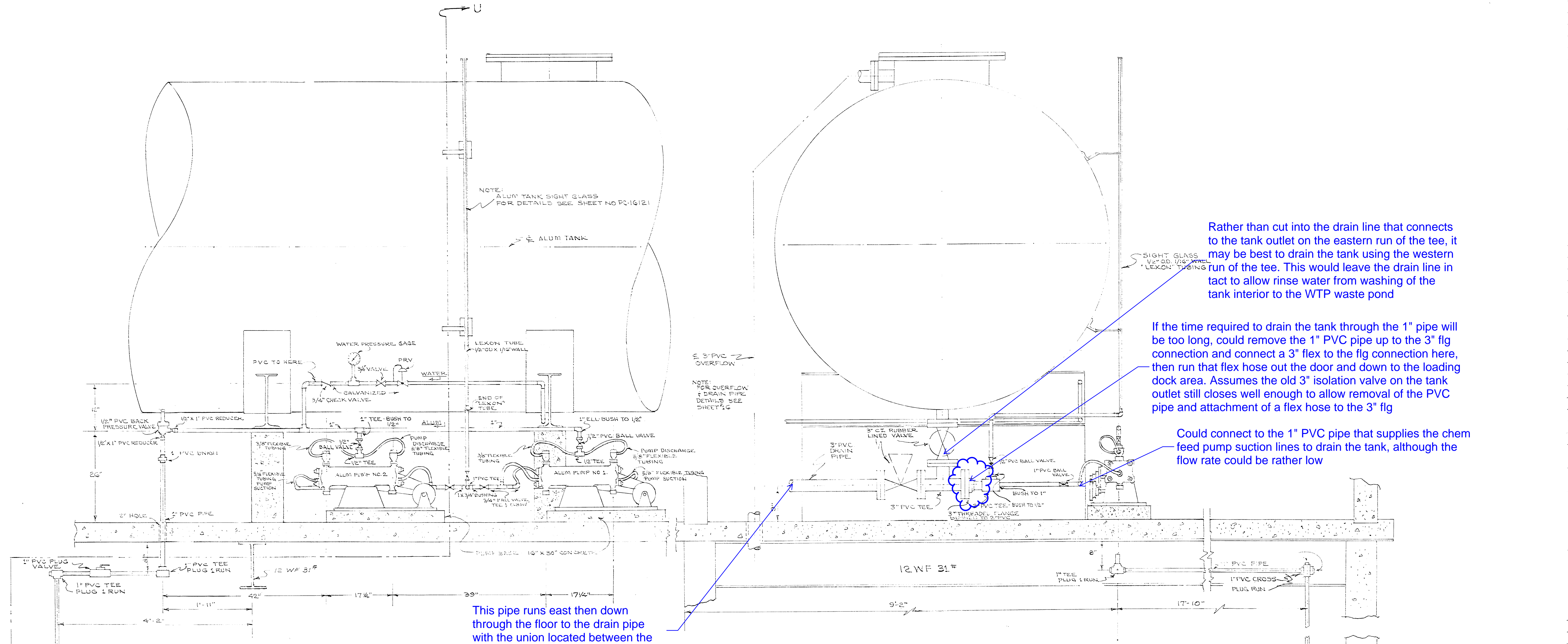


NOTE:
 ALL FITTINGS ON PVC PIPE SHALL BE NORMAL IMPACT UNPLASTICIZED SCHEDULE 80 PIPE.
 ALL FLANGED COUPLINGS SHALL HAVE RUBBER GASKETS.
 P.V.C. = POLYVINYL CHLORIDE

ER 35-WE 47-180					
DRAWN	1/11	7/22/1922			
TRACED		19			
CHECKED	5/22	1922			
APPROVED	2/20	1922			
NO.	DATE	REVISION	BY	CH	APP
1	7/22/22	REVISION BUILDING	CH	APP	ER NO.

ALBANY, OREGON
 WATER FILTRATION PLANT
 CHEMICAL BUILDING
 PACIFIC POWER & LIGHT COMPANY
 PORTLAND, OREGON

SCALE: 1/4" = 1'-0"
 APPROVED *John L. Stiles* ENGR
 SHEET 16 OF 22 PE-19214



Rather than cut into the drain line that connects to the tank outlet on the eastern run of the tee, it may be best to drain the tank using the western run of the tee. This would leave the drain line intact to allow rinse water from washing of the tank interior to the WTP waste pond

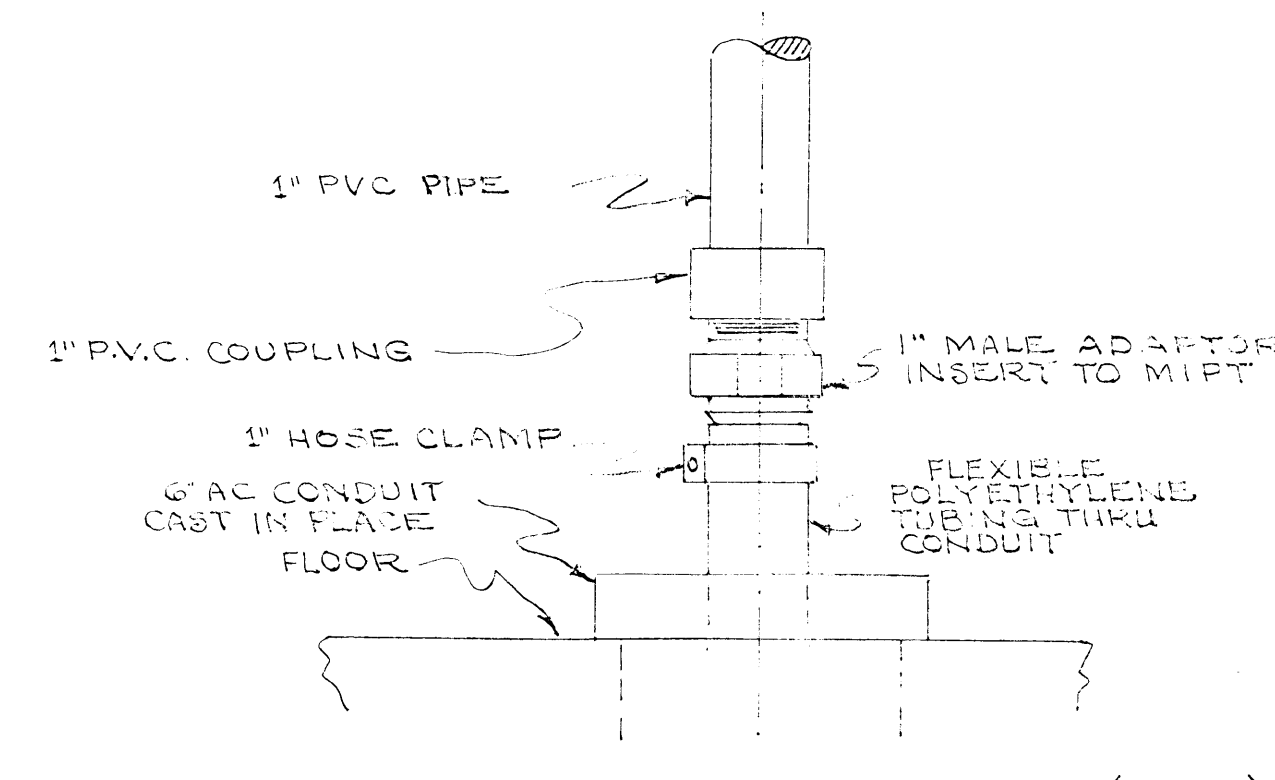
If the time required to drain the tank through the 1" pipe will be too long, could remove the 1" PVC pipe up to the 3" flg connection and connect a 3" flex to the flg connection here, then run that flex hose out the door and down to the loading dock area. Assumes the old 3" isolation valve on the tank outlet still closes well enough to allow removal of the PVC pipe and attachment of a flex hose to the 3" flg

Could connect to the 1" PVC pipe that supplies the chem feed pump suction lines to drain the tank, although the flow rate could be rather low

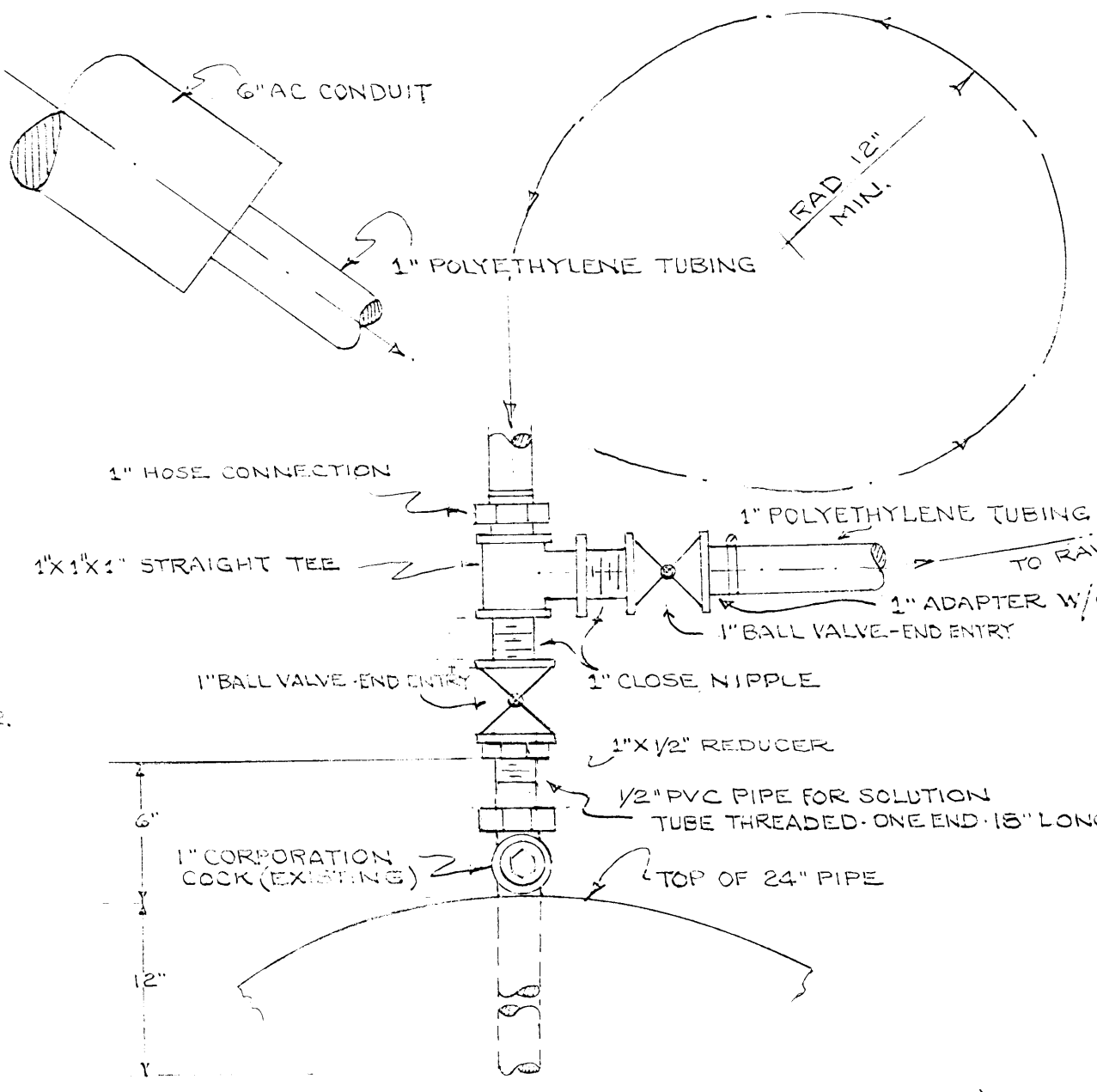
This pipe runs east then down through the floor to the drain pipe with the union located between the two water heaters.

ALUM TANK PIPING DETAILS SECTION U-U SCALE 1"=1'-0"

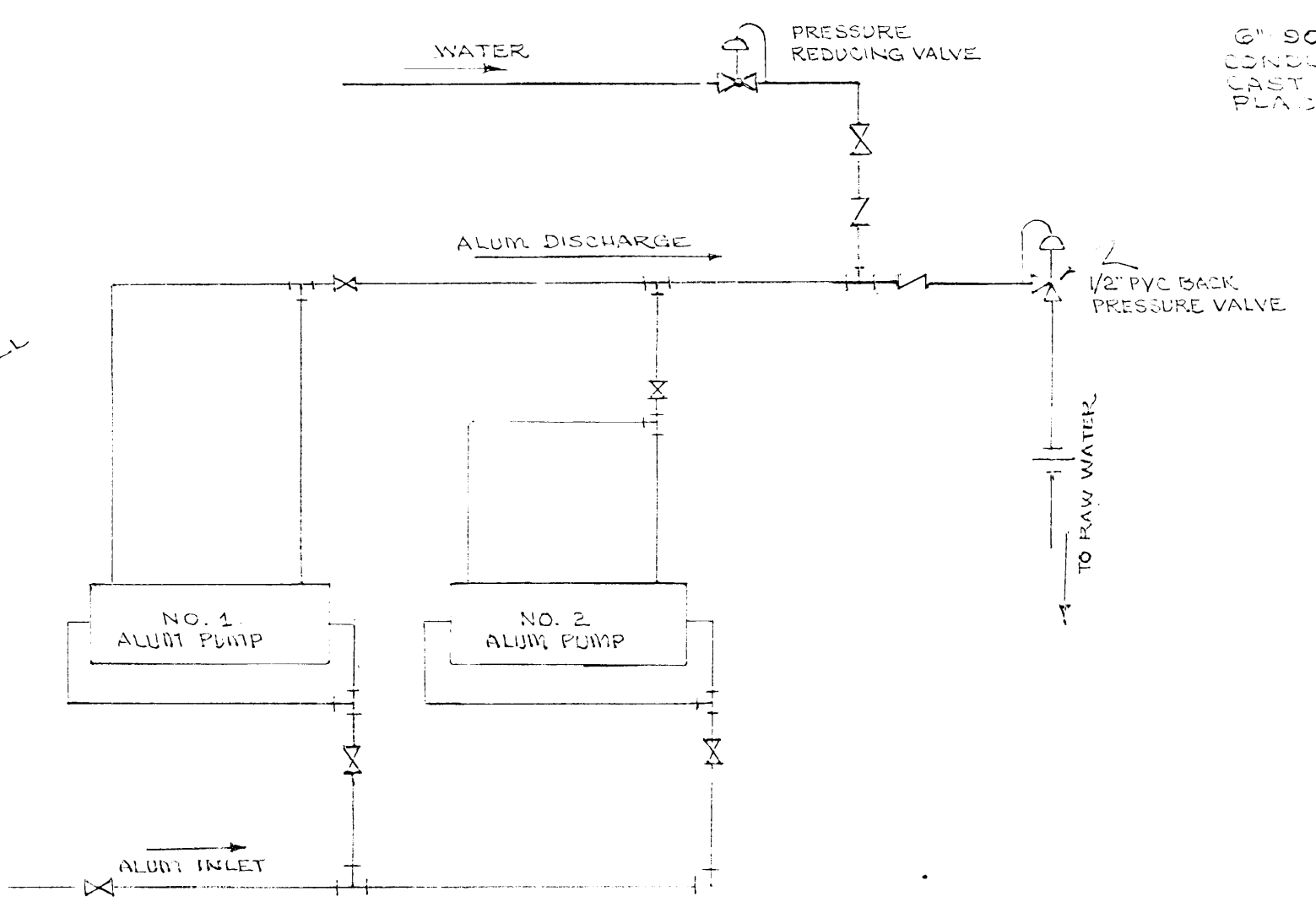
ALUM TANK PIPING DETAILS ELEVATION SCALE 1"=1'-0"



CONNECTION DETAIL VII-(ALUM) NO SCALE



CONNECTION DETAIL VIII-(ALUM) NO SCALE



FLOW DIAGRAM NO SCALE

REVISION	DATE	BY	CHKD	APP. USE
1	8-22-63	ERS	TR	APP. USE
2	8-22-63	ERS	TR	APP. USE

ER 33-14247-186	DATE 6-10-63
DES TR TIS	CH
APPROVED	
CHIEF DESIGN ENG.	
HEAD OF ELEC. ENGRS.	

ALBANY, OREGON WATER FILTRATION PLANT CHEMICAL BUILDING	
PACIFIC POWER & LIGHT COMPANY PORTLAND, OREGON	
SCALE NOTED	SHEET 17 OF 22
PE-15214	REV. 2

SULFATE

Tank outlet valve

Drain line isolation valve

3" FLG connection

1" connection

08/27/2019

