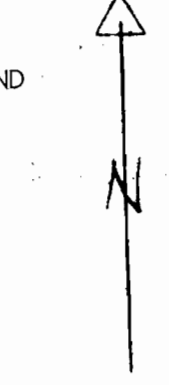


RED LINE - OUTLINES 33 ACRES UNDER SPINKLERS
 BLUE LINE - OUTLINES QUARTER SECTIONS
 ORANGE LINE - 10" MAIN PIPE FROM IRRIGATION SOURCE TO POND
 BLACK LINE - PIPE FROM POND TO ORCHARD



North Pump

POND

South Pump

Existing Supply Line 6"

Each pipe size = 60'

DESIGN DATA
 Crop Pear Orchard
 Soils Medford Silty Clay Loam
 Cows Clay Saker Clay
 Inlets Rate 0.3 in/hr
 Appl. Rate 0.16 in/hr
 Block A B C
 Spr. Spacing 60x60 60x60 44x44
 No. Sprinklers 195 161 96
 GPM/Spr 5.5 5.5 3.0
 Nozzles 1/64 1/64 1/8
 Lateral Loss 1.6 psi 1.6 psi 1.0 psi
 Operating Pressure 40-45 psi

MANAGEMENT DATA
 Consumptive Use 0.21 in/day
 Net Appl. 5.1 inches
 Frost Protection As Needed
 Irrigation 45 hrs or As Needed

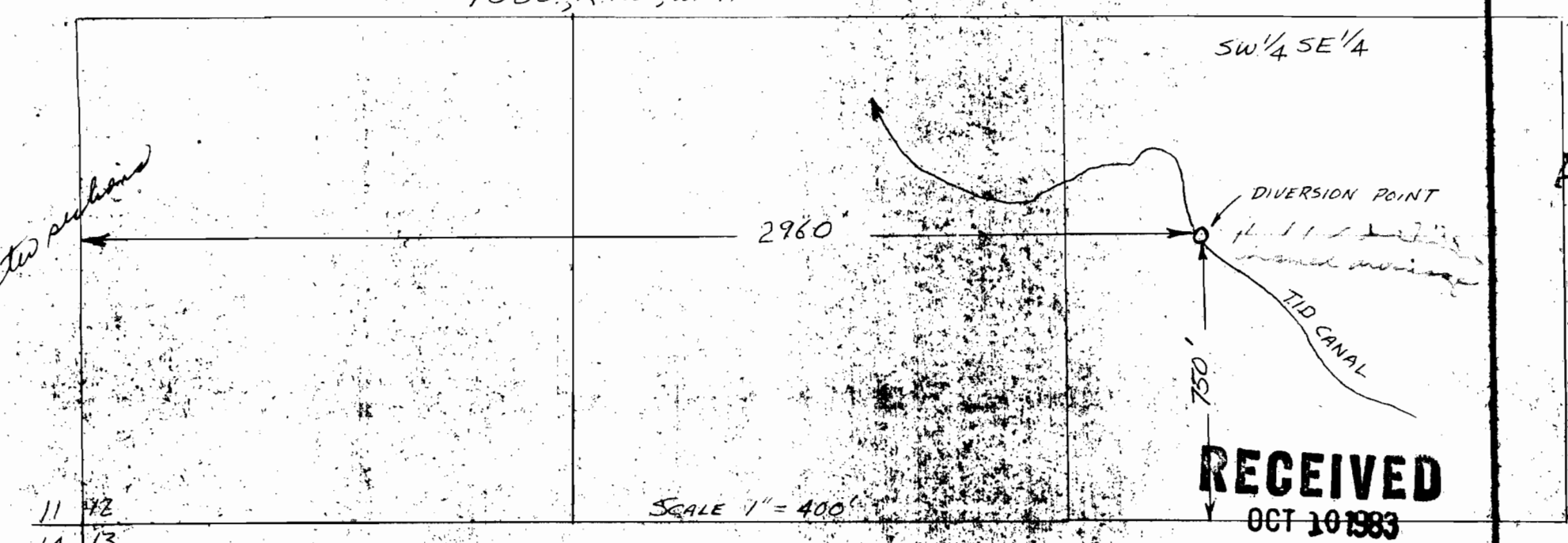
PIPE SUMMARY

Mainline PVC Class 125 Block	A	B	C	Total
10" Dia.	20'	20'	20'	60'
6"	24'	30'	30'	84'
5"	450'	250'	250'	950'
4"	480'	480'	250'	1,140'
3"	240'	240'	240'	720'
2 1/2"	1760'	940'	940'	3,640'
2"	6240'	5100'	1080'	13,020'
1 1/4"	3120'	3120'	2400'	8,640'
	16,380'	13,320'	5,310'	35,010'

PUMP REQUIREMENTS
 North Pump 1056 GPM, 164 TDH, 64 HP
 South Pump 1170 GPM, 168 TDH, 70 HP

THRUST BLOCK AREA

Dia. Pipe	sq. ft.	Thrust Blocks at elbows and tees.
10"	100	
6"	6.3	
5"	3.6	
4"	2.6	



Application No. 67453
 Permit No. R-9688 48421

RECEIVED
 DEC 2 1983
 WATER RESOURCES DEPT.
 SALEM, OREGON

RECEIVED
 OCT 10 1983
 WATER RESOURCES DEPT.
 SALEM, OREGON

RECEIVED
 FEB 17 1984
 WATER RESOURCES DEPT.
 SALEM, OREGON

RECEIVED
 APR 16 1984
 WATER RESOURCES DEPT.
 SALEM, OREGON

SWEDENBURG EAST, PURDY
 FROST CONTROL & IRRIGATION
 SYSTEM
 U. S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE