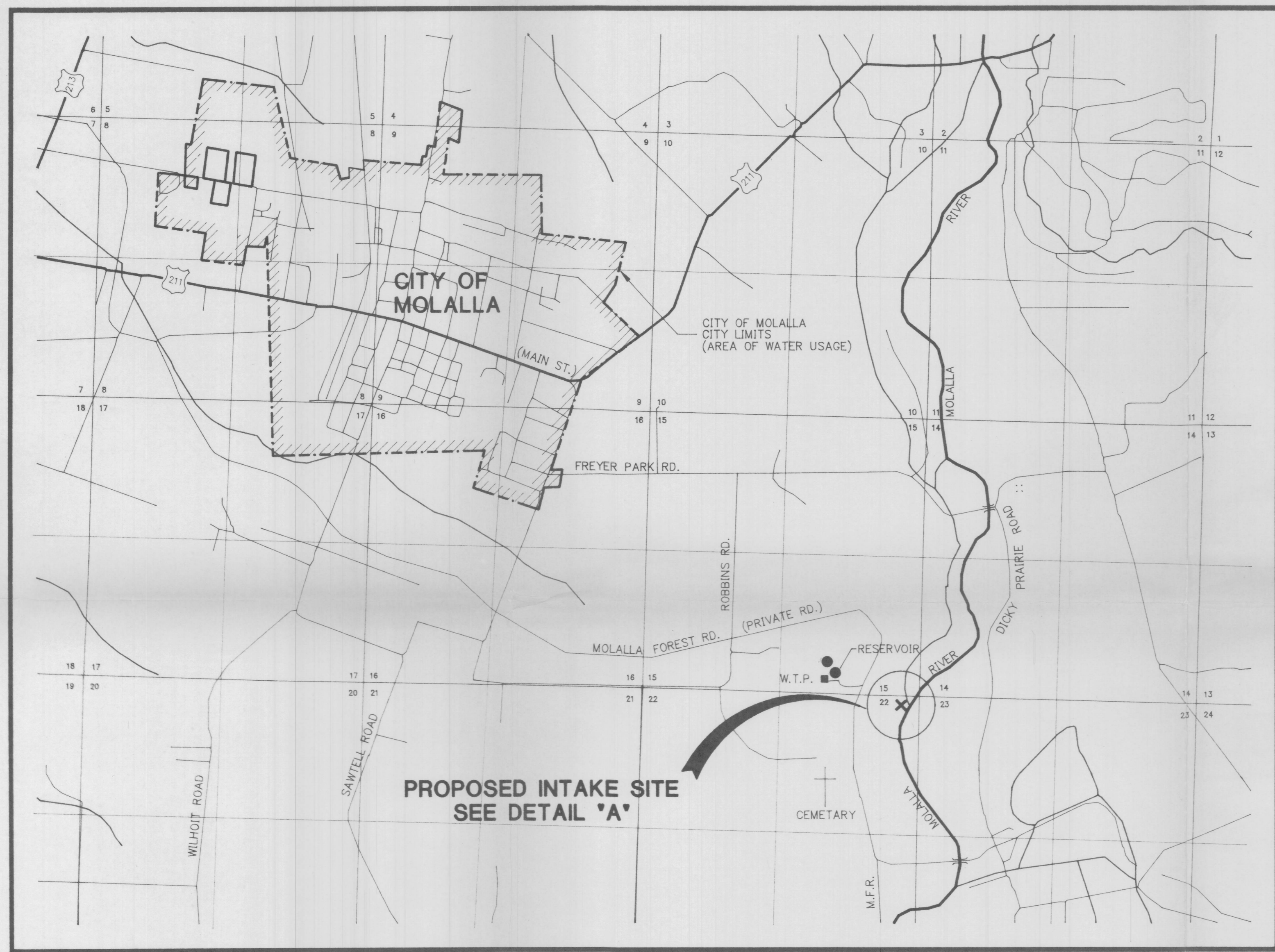
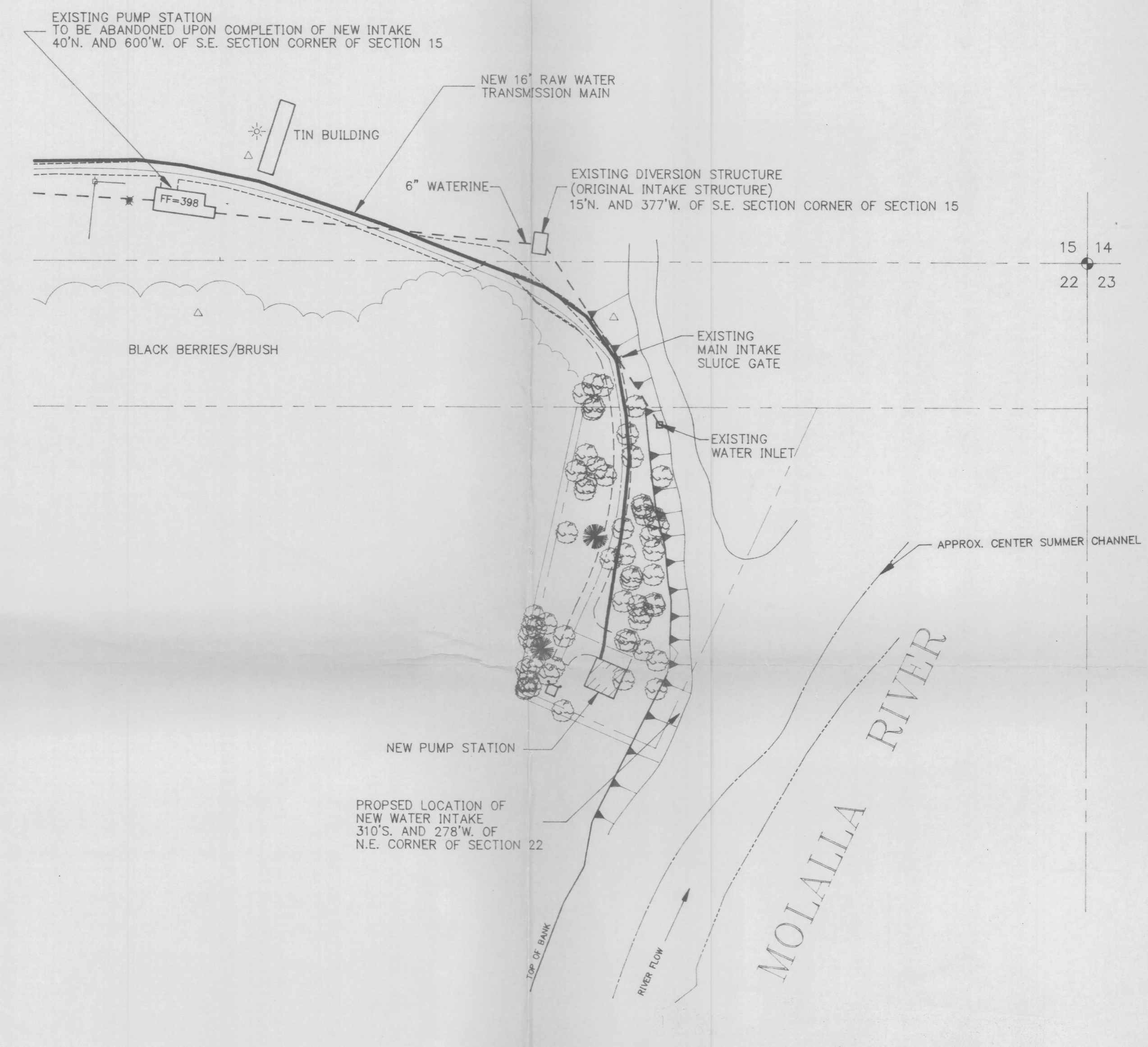


**RECEIVED**  
MAY 19 1993  
WATER RESOURCES DEPT.  
SALEM, OREGON



VICINITY MAP  
1"=1500'



DETAIL 'A'  
1"=60'

*City has a new pump plant. Will write letter requesting to make proof in new location*  
5/19/93  
*J. Duane Lee*

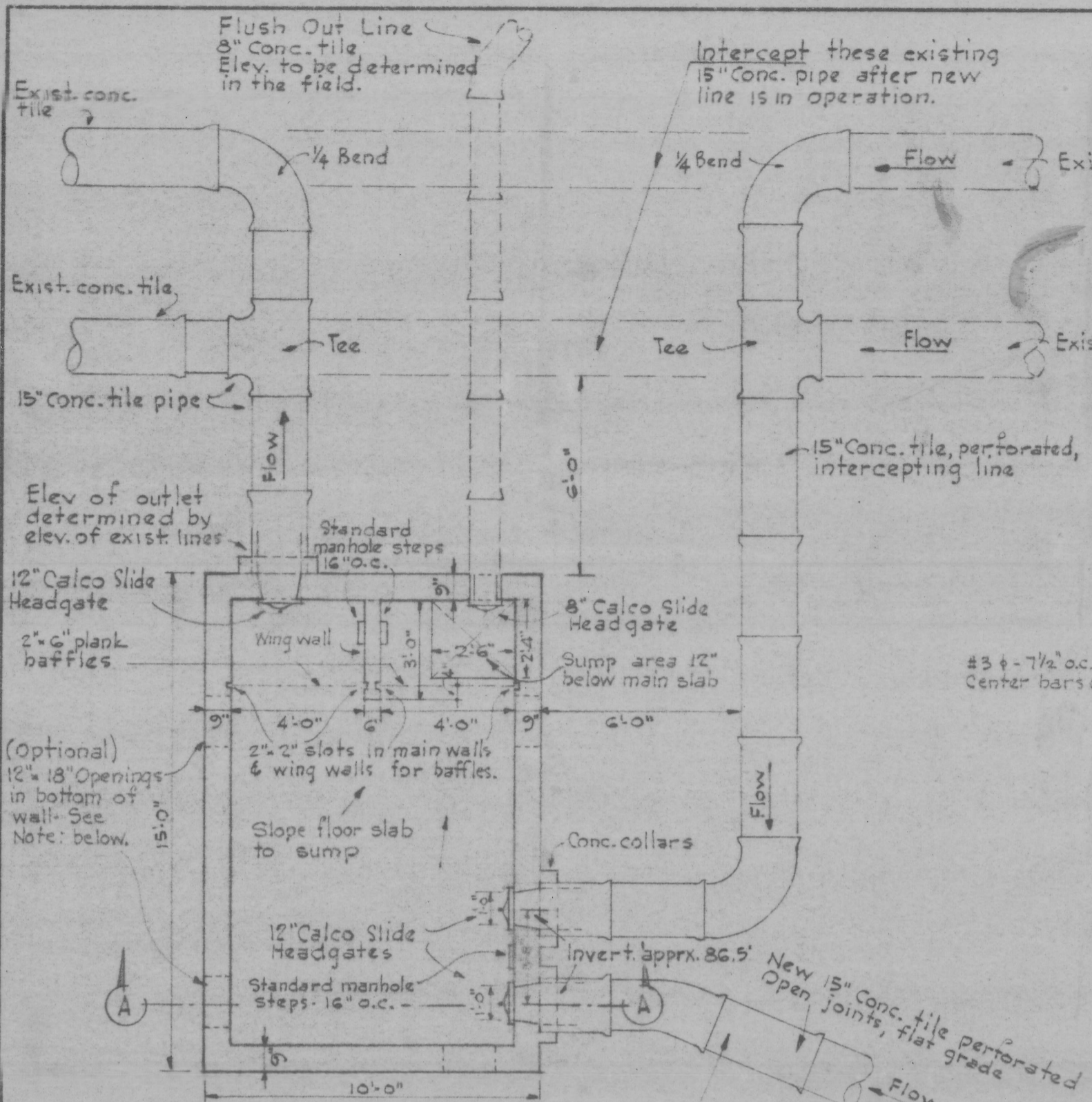
DATE	NO.	REVISION	BY	DES.	FILE NO.
			RCG		1272.01
			MDN		SCALE: AS SHOWN DATE: JUNE '92
			FDL		APPROVED: <i>J. Duane Lee</i>

PROJECT: **CITY OF MOLALLA WATER SYSTEM INTAKE IMPROVEMENTS**

SHEET TITLE: **VICINITY MAP AND SITE PLAN FOR PROPOSED INTAKE IMPROVEMENTS**

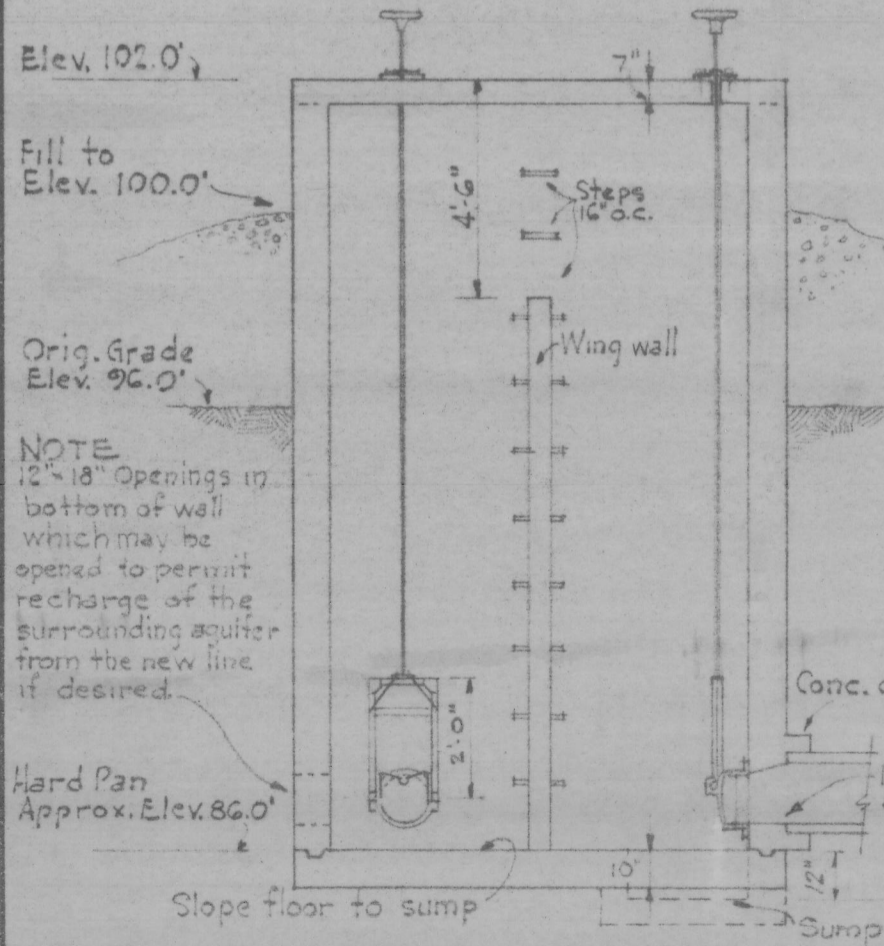
**LEE ENGINEERING, INC.**  
CONSULTING ENGINEERS  
OREGON CITY, OREGON

272501 06/30/92 13:46:53  
NO.  
1272.01  
SHEET NO.  
1 / 1

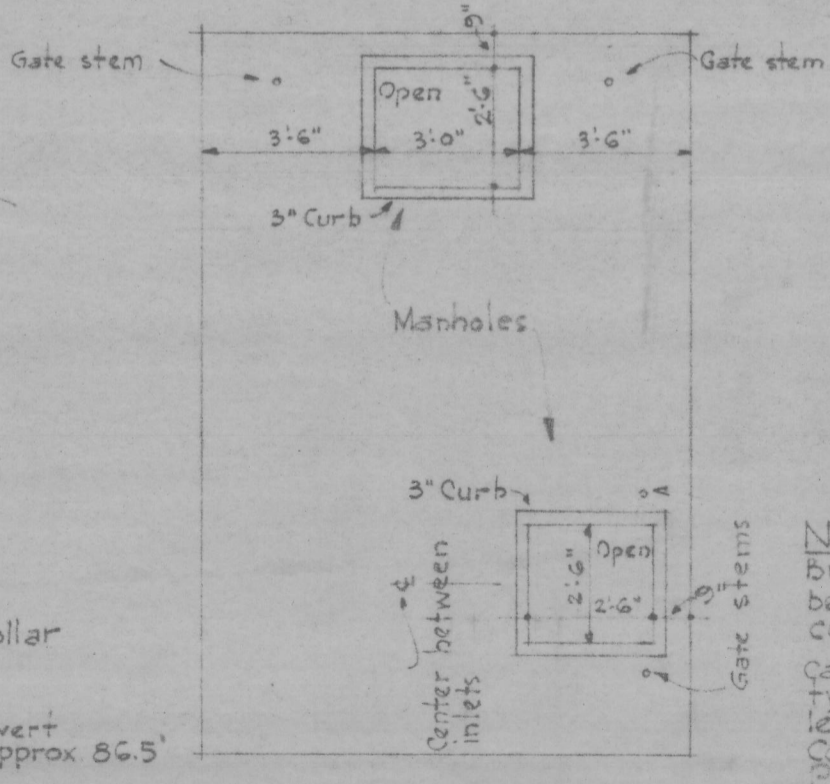


PLAN OF SAND TRAP  
Scale: 1/4" = 1'-0"

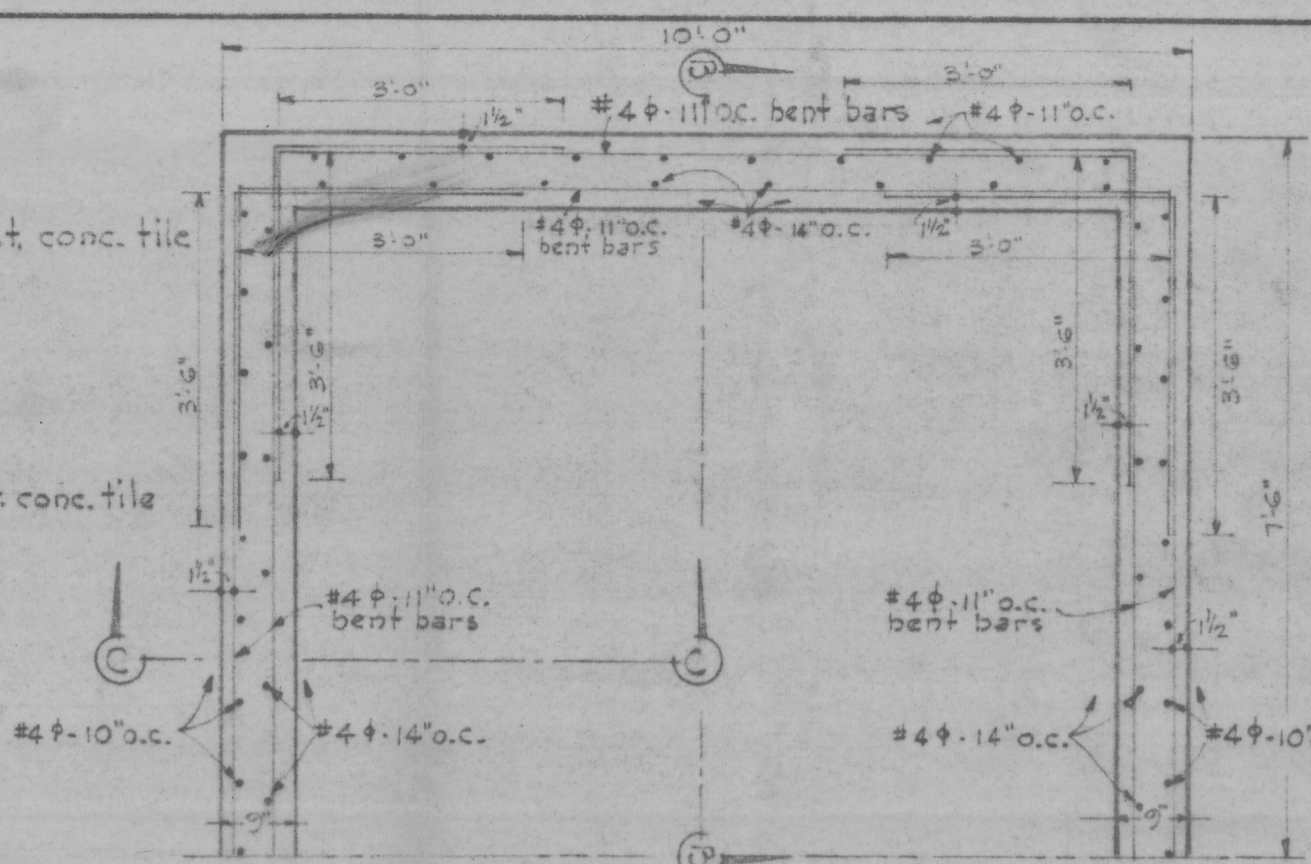
This line to be laid on the hard pan  
approx. elev. 86.0' with surrounding  
backfill as shown in detail on Sheet 1.  
Lay on flat grade unless hard pan rises  
toward river and/or digging is difficult.



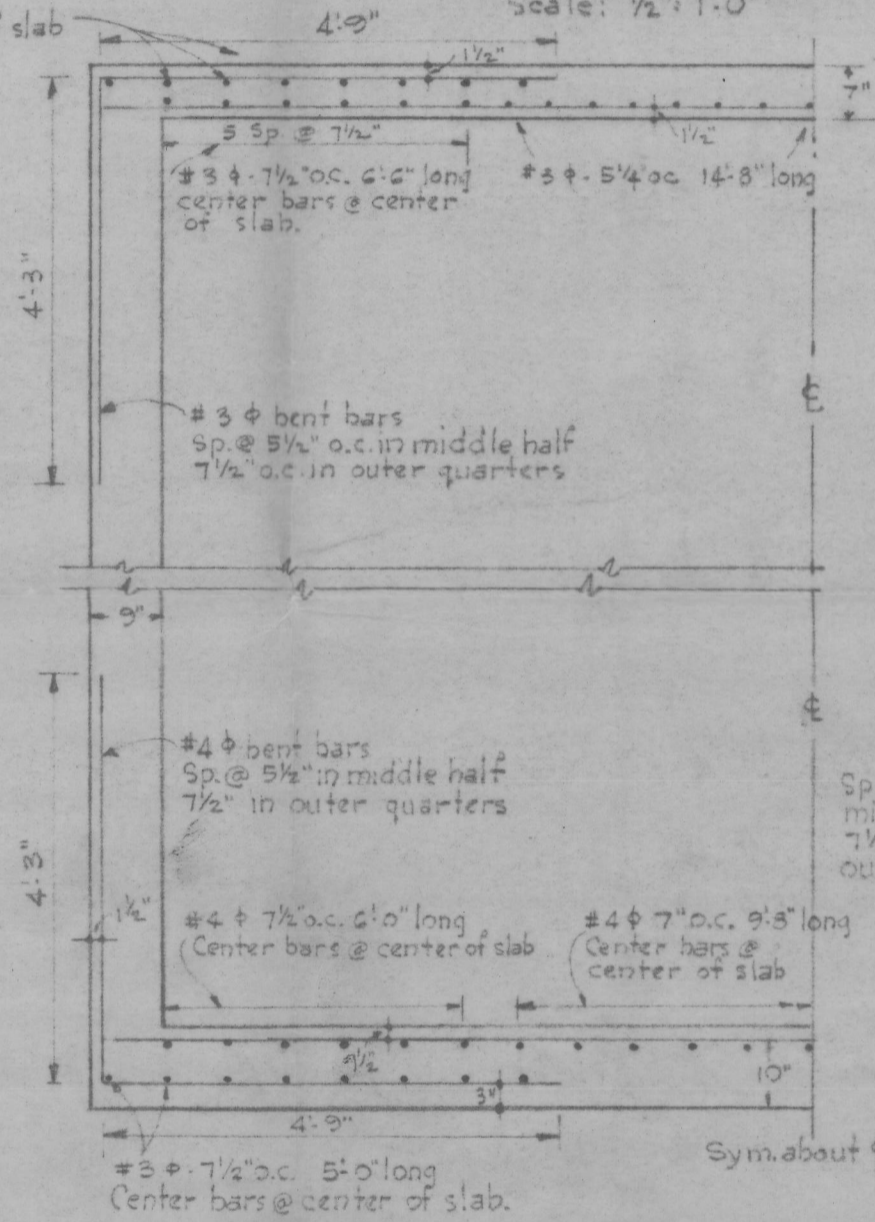
SECTION A-A  
Scale: 1/4" = 1'-0"



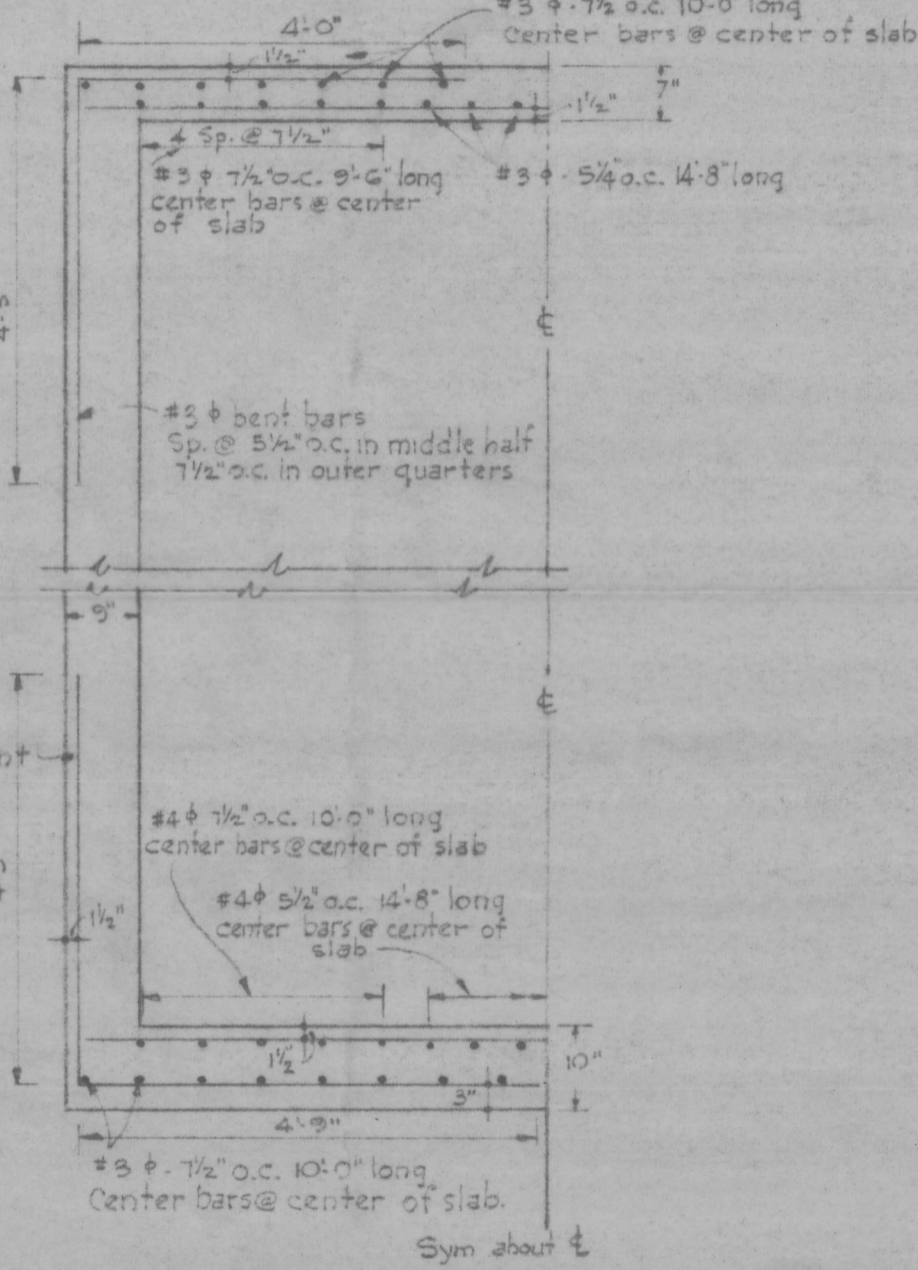
PLAN-TOP SLAB  
Scale: 1/4" = 1'-0"



HALF PLAN SHOWING WALL REINFORCING  
Scale: 1/2" = 1'-0"



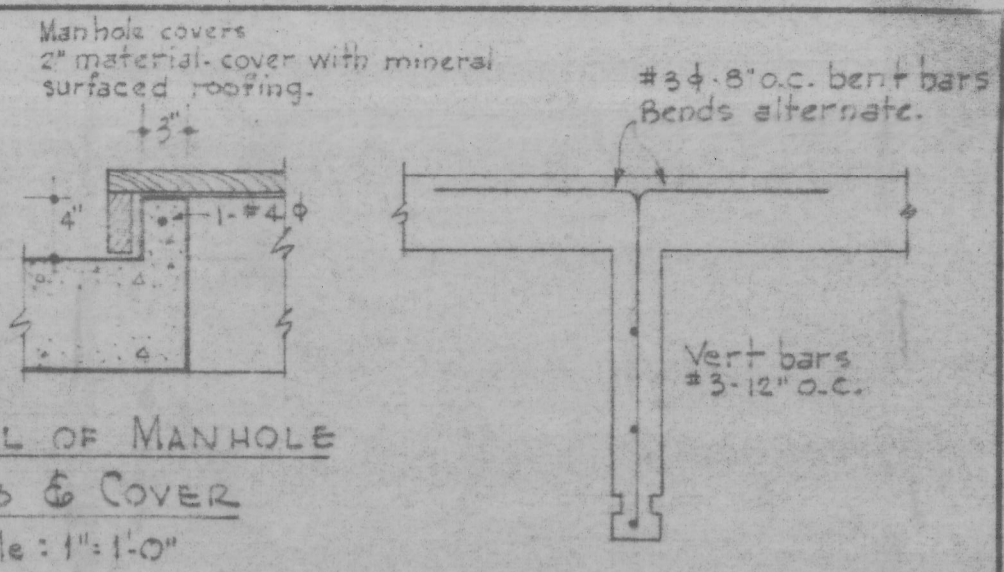
SECTION-B-B



SECTION-C-C

TYPICAL SLAB REINFORCING  
Scale: 1/2" = 1'-0"

NOTES:  
build Sand Trap first so that when new 15" line is laid, the trench can  
be dewatered by a pump placed in the sand trap, then lay new  
collection line starting from the sand trap and work out.  
Calco Slide Headgates to be Model No. 20-10 C, Style B, flat back  
type for attachment to concrete. Frame height 2'-0" with  
length of lift rod stem to fit from center of gate to top of slab.  
Collars for lift stems to be bolted to concrete top slab.  
Price \$25.00 plus freight from Berkeley, Calif., weight 10lb  
w/o stem, 30 day delivery.  
Concrete perforated tile to be bell & spigot, 15" dia. with bottom  
half perforated using 8 fows of 3/8" holes on 3" centers, holes  
staggered. Quotation: Salem Conc. Pipe & Products Co. -  
\$1.35/ft., delivery - 10 days from receipt of order.



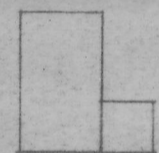
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AUG 17 1954  
STATE ENGINEER  
SALEM, OREGON



CITY OF MOLALLA, OREGON			
WATER SUPPLY IMPROVEMENTS DETAILS OF SAND TRAP			
SCALE As Noted	DATE July 21, 1953	J.O. 5321-243	
DRWG. BC	CLARK & GROFF ENGINEERS 3245 S. COMMERCIAL ST. SALEM, OREGON	SHEET	2
DSGN. LKC		NO. →	
CHKD. LKC		OF 2	

Application No. 29401  
Permit No. 23158

**NOTE:** It is desirable to replace 20 to 30 feet of the existing collection lines in pond with perforated tile pipe similar to new line. Backfill over these sections with clean sand to depth of 2 to 3 feet to bring to elev. 93.0. In case of extreme shortage of water, the river may be diverted onto these lines. Also, this system may be used to recharge the water table in this vicinity.

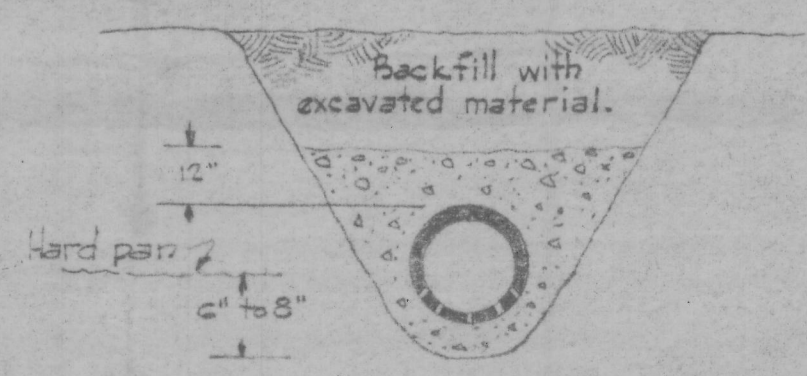
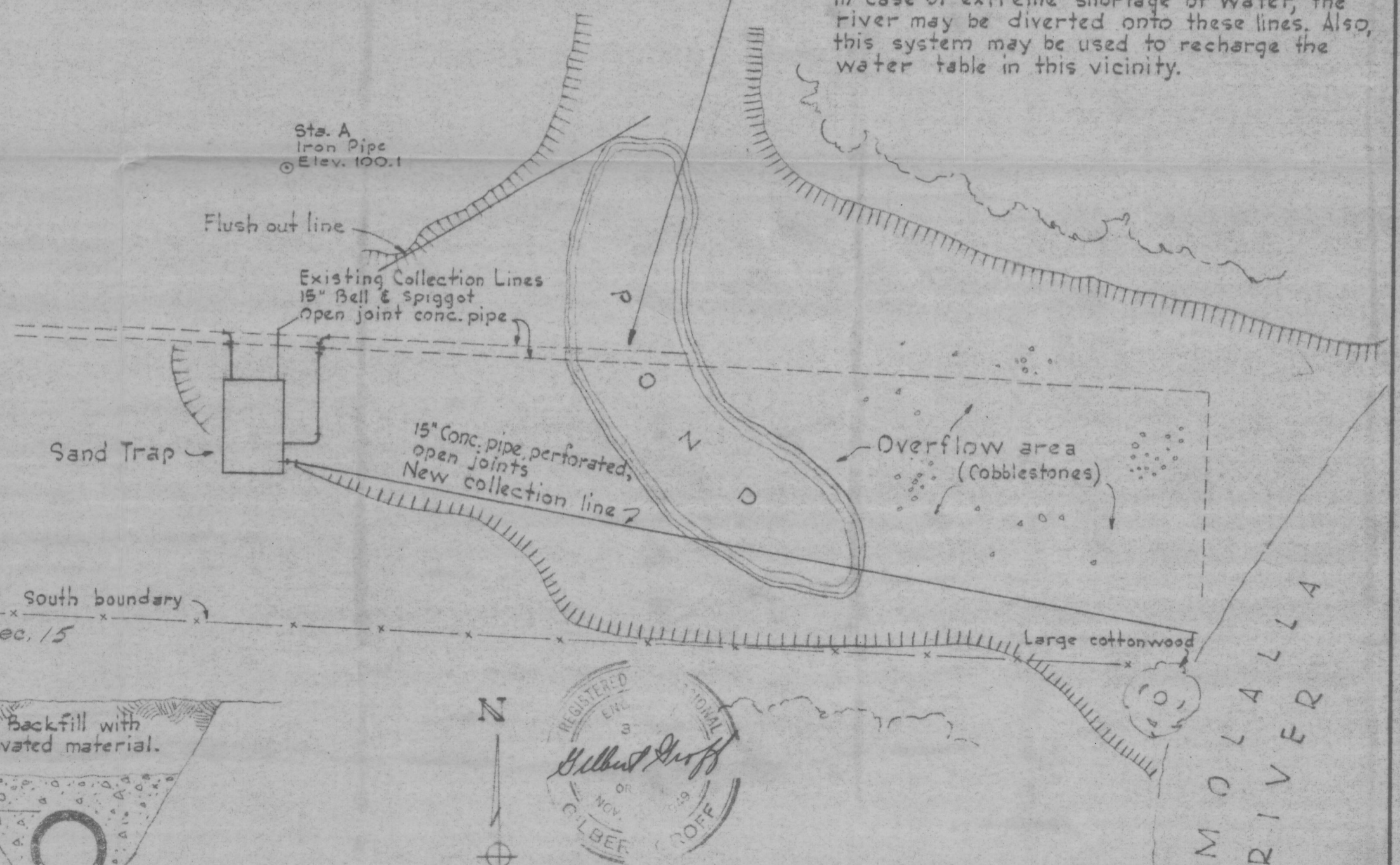


Existing Pump House  
Floor Elev. 100.0'

North 40'

East 600' to S.E. Sec. Corn of Sec. 15

South boundary  
of Sec. 15



**DETAIL OF PIPE TRENCH**  
No scale

Note: Cut into hard pan 6" to 8", backfill at least 4" with washed gravel 1/2" to 3/4", lay tile with perforations downward, surround and cover tile to 12" depth with same washed gravel.



**RECEIVED**  
AUG 17 1954  
STATE ENGINEER  
SALEM, OREGON

CITY OF MOLALLA, OREGON		
WATER SUPPLY IMPROVEMENTS LAYOUT OF COLLECTION SYSTEM		
SCALE 1" = 20 ft.	DATE July 21, 1953	J.O. 5321-228
DRWG. B.C.	CLARK & GROFF ENGINEERS 3245 S. COMMERCIAL ST. SALEM, OREGON	SHEET
DSGN. LKC		NO. →
CHKD. LKC		OF 2

Application No. 29401  
Permit No. 23158