

MINUTES OF A REGULAR MEETING OF THE BOARD OF DIRECTORS OF
TARRANT COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE
HELD IN THE DISTRICT OFFICE IN FORT WORTH, TEXAS,
ON THE 16TH DAY OF SEPTEMBER, 1949, AT 1:30 P.M.

The call of the roll disclosed the presence of Directors,
as follows:

PRESENT.

Joe B. Hogsett
Houston Hill
Dan H. Priest
Gaylord J. Stone
W. L. Pier

Also present were Sidney L. Samuels, General Attorney, and C. L. McNair, General Manager.

Director Hogsett acted in his capacity as President, and
Director Priest acted in his capacity as Secretary, whereupon pro-
ceedings were had and done as follows:

1.

Attached to these Minutes as Exhibit "A" is a statement
of the financial condition of this District to which reference is
made. Exhibit "A" shows that interim voucher-checks #950 to #970,
inclusive, for the total sum \$2,788.76 had been issued since the
last meeting; also proposed voucher-checks #971 to #999, inclusive,
for the total sum \$135,718.72. There was full consideration of the
proposed voucher-checks and the data to support same, whereupon
Director Priest moved, seconded by Director Stone, that the issued
voucher-checks above listed be confirmed, and that the accounts
payable be approved as covered by the proposed voucher-checks and
that such checks be issued and delivered to the respective persons
entitled to receive them. It was so ordered, subject to the usual
audit.

2.

The monthly report of the Auditors, Pitner and Adams, for the month of July, 1949, was ordered received and filed.

3.

The monthly report of Mr. C. L. McNair, General Manager of the District, dated September 16, 1949, for the month of August, 1949, was received, presented and ordered filed as Exhibit "B" to these Minutes.

4.

Following the monthly report, Mr. McNair, in his capacity as General Manager, presented detailed reports concerning operation and maintenance of Eagle Mountain and Bridgeport Lake Properties.

Both letters are attached in folio to these minutes and made a part hereof. It was agreed by all the Directors that the two reports should be received and filed.

5.

There was presented to the Board official letter dated September 1, 1949, from Captain W. B. Howard, (CEC) U. S. Navy District Public Works Officer, written at the Headquarters of the Eighth Naval District, Federal Building, New Orleans, Louisiana, with reference to the exchange of lands between the District and the Federal Government. In effect and in substance, the letter explained that the Bureau of Yards and Docks in Washington, expects to endorse favorably the proposed exchange of lands and that the recommendations of the Bureau for acceptance of such exchange would be presented to the National Congress

at the first available opportunity. The letter concluded with this expression: "Although no final action has yet resulted the Commandant is pleased to advise that favorable action is in progress." It was agreed by the Board that the letter should be received and filed. All the Directors voting "aye" thereon.

6.

Mr. McNair reported the receipt of check for \$200.00 on the First National Bank, Bridgeport, Texas, signed by C. A. Lawrence for water used for drilling purposes by Wright, Clark & Sinkel Drilling Company of Graham, Texas; a check on The First National Bank of Wichita Falls, Texas, for \$100.00 executed by Mann Drilling Company for use of water in drilling of oil wells in Wise County, Texas. On motion of Director Stone, seconded by Director Hill, such checks were ordered received and to be deposited to the account of the District. All the Directors voting "aye" thereon.

7.

Mr. McNair presented and recommended two land lease proposals, as follows:

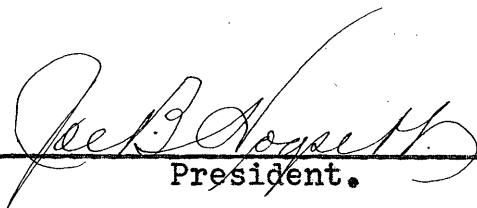
- (a) Proposal of Mr. Eugene Ashe to renew his lease on certain lands for the year 1949, at an annual rental of \$460.00 per year.
- (b) One from L. C. Yates, in which he proposed to pay \$450.00 for approximately 5.50 acres of land out of the District's Tract No. 342-A, purchased from Stock Yards National Bank, and known as Lots 5, 6 and 7, of sub-division, for the period January 1, 1950 to December 31, 1950.

Upon consideration of each of the above lease proposals, Director Priest moved, seconded by Director Stone that the said

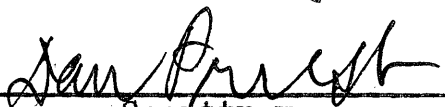
proposals be approved and closed in the usual manner, subject of the payment of the agreed rentals and execution of written contracts in the form required by the District. It was so ordered.

8.

There being no further business before the Board, the meeting thereupon adjourned.



President.



Secretary

Exhibit "A" to Minutes of Sept. 16, 1949.
at 1:30 P.M.

TARRANT COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE

VOUCHER-CHECKS ISSUED AUGUST 31, 1949, #950 TO #970, INCLUSIVE.

<u>NO.</u>	<u>I S S U E D T O</u>	<u>C O V E R I N G</u>	<u>AMOUNT</u>
950	Sidney L. Samuels	(Legal Services as General) (Attorney, August, 1949.)	\$ 300.00
951	C. L. McNair	(Salary, August, 1949 \$600.00) (Less: Withholding Tax <u>51.10</u>)	548.90
952	E.B.Cheatham	(Salary, August, 1949 \$350.00) (Less: Withholding Tax <u>27.10</u>)	322.90
953	Myrtle Hartmeister	(Salary, August, 1949 \$185.00) (Less: Withholding Tax <u>19.50</u>)	165.50
954	B.W. Bintliff	(Salary, August, 1949 \$225.00) (Less: Withholding Tax <u>17.20</u>)	207.80
955	Will Massingill	(Salary, August, 1949 \$165.00) (Less: Withholding Tax <u>None</u>)	165.00
956	W. H. Hutcheson	(Salary, August, 1949 \$175.00) (Less: Withholding Tax <u>9.40</u>)	165.60
957	Texas Electric Service Company	(Elec. Service: Custodian's) (Residence: E. M. \$ 8.82) (E.M. Range Lights <u>6.06</u>)	14.88
958	Texas Power & Light Company	(Elec. Serv. Custodian's) (Residence, B. P. \$ 9.71) (Camphouse B. P. <u>7.42</u>)	17.13
959	Southwestern Bell Telephone Co.	(Phone Service: 3-2848 from) (Aug. 11, 1949 to Sept. 11) (1949. \$9.65) (E. M. 6-3398 from) (Aug. 16, to Sept.) (16, 1949. <u>18.10</u>)	27.75
960	Joe B. Hogsett	Director's Fees, August, 1949	20.00
961	Houston Hill	Director's Fees, August, 1949	10.00
962	Dan H. Priest	Director's Fees, August, 1949	20.00
963	Gaylord J. Stone	Director's Fees, August, 1949	10.00
964	Chas. J. Lamance	(Labor: at E. M. August, 1949) (192 hrs. @ 75¢ per hr. \$144.00) (Less: Withholding Tax <u>None</u>)	144.00
965	J. W. Lamance	(Labor at E. M. August, 1949) (192 hrs. @ 75¢ per hr. \$144.00) (Less: Withholding Tax <u>None</u>)	144.00
966	R.S. Lamance	(Labor at E. M. August, 1949) (96 hrs. at 75¢ per hr. \$72.00) (Less: Withholding Tax <u>4.20</u>)	67.80
967	Bill King	(Labor at B. P. August, 1949) (200 hrs. @ 75¢ per hr. \$150.00) (Less: Withholding Tax <u>8.75</u>)	141.25
968	Bennie Paul Starnes	(Labor at B. P. August, 1949) (208 hrs. @ 75¢ per hr. \$156.00) (Less: Withholding Tax <u>9.10</u>)	146.90
969	Roy Raven	(Labor: Installing breaker box) (making complete inspection of) (Elec. wiring on main house BP)	3.00

Continued.

TARRANT COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE

VOUCHER -CHECKS ISSUED AUGUST 31, 1949, #950 TO #970, INCLUSIVE. Cont.

<u>NO.</u>	<u>I S S U E D</u>	<u>T O</u>	<u>C O V E R I N G</u>	<u>AMOUNT</u>
970	Continental National Bank	Fort Worth, Texas.	Withholding Tax	\$ 146.35
T O T A L.				\$ 2,788.76

DISTRIBUTION OF VOUCHER-CHECKS #950 TO #970, Incl.

Directors	\$ 60.00
General Manager	600.00
Office	544.65
Legal	300.00

EAGLE MOUNTAIN LAKE:

Custodian's Salary	\$ 225.00	
Assistant Custodian's Salary	165.00	
Electric Service: (Custodian's Res.	\$8.82	
(Range Lights	<u>6.06</u>	14.88
Phone Service		18.10
Labor		<u>360.00</u>
		782.98

LAKE BRIDGEPORT:

Custodian's Salary	\$ 175.00	
Electric Service: (Custodian's Res.	\$9.71	
(Camphouse	<u>7.42</u>	17.13
Labor		<u>309.00</u>
		501.13

T O T A L. \$ 2,788.76

TARRANT COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE.

VOUCHER-CHECKS #971 TO #999, INCLUSIVE.

<u>NO.</u>	<u>I S S U E D</u>	<u>T O</u>	<u>C O V E R I N G</u>	<u>AMOUNT</u>
971	Danciger Building		Office rent, Sept. 1949	\$ 260.00
972	Fort Worth Typewriter Exch.		(One Typewriter Ribbon \$ 1.25) (One Box Carbon Paper <u>3.50</u>)	4.75
973	Warren Donaldson		(210 Ft. 4" Sewer) (Pipe at 12¢ per foot. E. M.)	25.20
974	Butram Appliance Company		1 ea. 4 Circuit 15 Amp. Switch BP	12.85
975	Stafford-Lowdon Company		Repairs on One Filing Cabinet	7.50
976	Banner Service Station		(Oil & Gas & Parking District's) (Chevrolet Sedan during the) (month of August, 1949.)	26.55
977	Rex H. Bird Motor Company		(Battery Charge Wellhouse) (motor. \$0.50) (Parts, Labor-Dodge) (Pickup B. P. <u>4.55</u>)	5.05
978	Barnes Place 7		(Parts for 17.6 H.P. Evinrude) (Motor. E. M.)	26.94

Continued.

TARRANT COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE

VOUCHER-CHECKS #971 TO #999, INCLUSIVE.

<u>NO.</u>	<u>I S S U E D</u>	<u>T O</u>	<u>C O V E R I N G</u>	<u>AMOUNT</u>
979	Gary-Nees Company		(40 ft. 1/2" Reinforcing) (Steel. \$ 2.80) (4 Bags Cement 4.20) (1 Electric Switch 0.50) (1 Roll Friction Tape 0.50) (Lumber, Paint, Nails 177.80) (Bridgeport.)\$	185.80
980	Marion Herring Boat Works		(Gas, and supplies for E. M.) (Patrol Boat)	41.87
981	Fort Worth Office Supply Co.		(1#1760 F Grey GF Desk \$175.50) (2#3129 Alum. C525GF) (Chairs 252.00) (3#5404 C.L. 4 door) (legal file with lock 349.50) (Less 10% of 777.00) (77.70)	699.30
982	Ace Floor Company		(Material and labor, laying) (asphalt tile in office rooms) (#502-03)	103.88
983	The Southwestern State Tel.Co.		Phone Service, B. P. Dam	4.70
984	Majestice Reproduction Company		(Photostat copies of 6 City) (of Fort Worth Ordinances.)	6.95
985	Acers Sign Company		Black Office Lettering	11.65
986	Texas Water Conservation Association		(Annual membership for this) (District in Texas Water Con) (Association for the year) (ending Sept. 30, 1950.)	100.00
987	Magnolia Petroleum Company		(Oil and Gas. E. M.) (Boats \$ 18.72) (Truck 30.42)	49.14
988	Continental Oil Company		Oil & Gas District's Chev. Sedan	14.30
989	Ona Carlton		(327 cu. yds. Gravel at pit) (at 5¢ per cu. yd. B. P.)	16.35
990	J. Edwin McKee, Postmaster		300 Three-cent Postage stamps	9.00
991	Well Machinery & Supply Co.		(Misc. Maintenance supplies) (E. M. \$ 33.44) (Mis. Maintenance) (Supplies, B. P. 134.80)	168.24
992	Continental National Bank, Fort Worth, Texas.		(Telegraphic cost for transferring) (\$133,037.42 by wire on 9-14-49) (to Central Hanover Bank & Trust) (Company, N. Y. \$ 1.72) (Funds to be transferred) (by wire on Sept. 14, 49 to) (Central Hanover Bank and) (Trust Company, N. Y. in) (payment of their handling) (charge for paying bonds) (and coupons 114.92)	116.64

Continued.

TARRANT COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE

VOUCHER-CHECKS #971 TO #999, INCLUSIVE.

<u>NO.</u>	<u>I S S U E D</u>	<u>T O</u>	<u>C O V E R I N G</u>	<u>A M O U N T</u>
993	Continental National Bank	Fort Worth, Texas.	(Funds to be transferred by) (wire on Sept. 14, 1949 to) (Central Hanover Bank & Trust) (Company, N.Y. to pay Bonds) (Bonds. \$ 24,000.00) (Interest Coupons 108,922.50) (maturing 9-15-49)	\$ 132,922.50
994	Frank Kent Motor Company		(E. M. Ford Truck) (Wash \$ 1.00) (Lubricate 1.00) (Parts 1.12)	3.12
995	Wm. Cameron & Company		(Materials for maintenance) (work E. M. \$ 47.67) (Materials for) (maintenance work) (at B. P. 112.75)	160.42
996	E.S. Kuykendall & Company		(Ins. Prem. Royal Ins. Company) (Policy #M4315, 8-31-49 to) (8-31-50 on Chris Craft Utility) (Cruiser License 1-A-400,) (Motor No. SM 7-27558 \$160.00) (Less: 20% return) (premium (Pol #M3990) 32.00)	128.00
997	Roberts & Rhea		(Centennial Policy #F42R4592) (vacancy Clause 8-22-49) (to 11-22-49, Esther Ford) (House. \$ 3.60) (Renewal Prem. 8-29-49) (to 8-29-52 Fire and ex-) (tended coverage on Im-) (provements on I.W.Cole) (Tr; W.J.Porter Tr;) (T.A.Gantt Tr; Assist-) (ant Custodian's house) (at E.M. Lake and R.H.) (Smith Lease, covered) (by Fort Worth Lloyd's) (policies #6297 to) (#6301, Inclusive. 301.71)	305.31
998	Owen T. Funk		(Engineering Services 8-1-49 to) (8-31-49 Inc.) (97 hrs. @ \$2.50 per hr. \$242.50) (Overhead & Contingency) (charge. 28.46) (Auto Mileage 330 mi. @) (7¢ per mile. 23.10)	294.06
999	C. L. McNair		(Reimbursement to him for moneys) (expended for account of the) (District, 8-16-1949 to 9-14-49,) (inclusive.)	8.65
T O T A L			\$ 135,718.72	

TARRANT COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE

DISTRIBUTION OF VOUCHER-CHECKS #971 TO #999, INCLUSIVE.

General Manager	\$	425.70
Office		726.83
Engineering		294.06
Renewal Membership in Texas Water Conservation Association		100.00
Land Department		16.35
Insurance		433.31
Expense paying Bonds and Coupons		116.64
Bonds Maturing Sept. 15, 1949		24,000.00
Interest Coupons Maturing Sept. 15, 1949		108,922.50

EAGLE MOUNTAIN LAKE:

Maintenance Supplies	\$	106.31	
Evinrude Motor Parts		26.94	
Patrol Boat Expense		41.87	
E. M. Ford Truck		3.12	
<u>Oil & Gas</u>			
Boats	\$	18.72	
Trucks		30.42	
		<u>49.14</u>	227.38

LAKE BRIDGEPORT:

Repairs-Custodian's Residence	\$	191.65	
Dodge Pickup		4.55	
Wellhouse motor and building steps			
at Wellhouse		3.65	
Land Markers		3.85	
Phone Service		4.70	
Maintenance Supplies		<u>247.55</u>	<u>455.95</u>

TOTAL \$ 135,718.72

CONDITION OF FUNDS

	<u>MAINTENANCE FUND</u>	<u>INTEREST AND SINKING FUND</u>
BOOK BALANCE: August 12, 1949 Cash	\$ 78,341.48	\$ 195,121.21
RECEIPTS: Taxes, Penalty and Int.	263.19	939.97
Annual Lease Rental Oil & Gas	189.29	---
Land Rental	20.83	---
Boat Licenses	21.00	---
Miscellaneous	<u>1.25</u>	<u>---</u>
	\$ 78,837.04	\$ 196,061.18
Less: Disbursed by vo-cks. #950 to #970, Inclusive.	<u>2,788.76</u>	<u>---</u>
	\$ 76,048.28	\$ 196,061.18
Less: Disbursed by vo-cks. #971 to #999, Inclusive.	<u>2,796.22</u>	<u>132,922.50</u>
	\$ 73,252.06	\$ 63,138.68

NOTE: The Interest and Sinking Fund now owns \$350,000.00
par value United States Government Securities.

The Maintenance Fund now owns \$200,000.00 par value
United States Government Securities.

BOARD OF DIRECTORS

JOE B. HOGSETT, PRES.
HOUSTON HILL, VICE-PRES.
DAN H. PRIEST, SEC'Y
GAYLORD J. STONE
W. L. PIER

TARRANT COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE

DANCIGER BUILDING - COR. 5TH AND THROCKMORTON STS.

PHONE 3-2848

SIDNEY L. SAMUELS,
GENERAL ATTORNEY

C. L. MCNAIR, GENERAL MANAGER

ED. B. CHEATHAM,
OFFICE MANAGER

FORT WORTH 2, TEXAS.

Sept. 16, 1949

Exhibit "B" to Minutes
of September 16, 1949.
at 1:30 P.M.

To: Board of Directors,
Tarrant County Water Control and
Improvement District Number One

Gentlemen: REPORT FOR AUGUST, 1949.

A separate report in respect to operation and
maintenance of Eagle Mountain and Bridgeport Properties is
herewith submitted.

At the request of the City of Fort Worth, we have
been releasing water sufficient for the dilution of raw sewage
entering the river through a broken sewer line near the Main
street river crossing.

CONDITION OF LAKES.

<u>RESERVOIR</u>	<u>LAKE LEVEL</u>	<u>DATE</u>	<u>CAPACITY</u> <u>ACRE FEET</u>
Bridgeport	811.7	August 1, 1949	163,900
Bridgeport	<u>809.8</u>	Sept. 1, 1949	<u>150,600</u>
	1.9		13,300
Eagle Mountain	647.70	August 1, 1949	201,300
Eagle Mountain	<u>647.48</u>	Sept. 1, 1949	<u>199,320</u>
	0.22		1,980
Bridgeport Lake down	1.9	Loss	13,300
Eagle Mountain Lake down	0.22	Loss	<u>1,980</u>
Total decrease in storage			15,280 Acre Feet.

Respectfully submitted,

By C. L. McNair
General Manager.

CLM:mh

BOARD OF DIRECTORS

JOE B. HOGSETT, PRES.
HOUSTON HILL, VICE-PRES.
DAN H. PRIEST, SEC'Y
GAYLORD J. STONE
W. L. PIER

TARRANT COUNTY WATER CONTROL AND
IMPROVEMENT DISTRICT NUMBER ONE

DANCIGER BUILDING - COR. 5TH AND THROCKMORTON STS.

PHONE 3-2848

FORT WORTH 2, TEXAS.

SIDNEY L. SAMUELS,
GENERAL ATTORNEY

C. L. MCNAIR, GENERAL MANAGER

ED. B. CHEATHAM,
OFFICE MANAGER

9-12-49

To be attached to Minutes
of Sept. 16, 1949. at 1:30 PM

To: The Board of Directors,
Tarrant County Water Control and
Improvement District Number One.

Gentlemen:

Progress report in respect to operations and maintenance as recommended by Mr. M. C. Nichols of the firm of Freese and Nichols in report of June 27, 1949.

BRIDGEPORT DAM

The following recommendations are made in respect to operations and routine maintenance:

1. Present routine maintenance and operation is satisfactory and should be continued.

No change.

2. Stuffing boxes on gate valves should be repacked.

Completed re-packing July 16, 1949. All leaks stopped.

3. Gates at service spillway should be raised and lowered about 10 feet to make certain that they are in good operating condition.

Delayed until hoisting unit selected. We are investigating to determine proper equipment.

4. Stems on gate valves should be realigned and adjusted.

Will have to be deferred until valve can be closed as open valve causes air currents which interferes with plumb lines. We are ready to begin this job as soon as valve can be closed.

5. Examination should be made of the cut-off at downstream apron of conduit to determine if any undercutting has occurred.

Examination by Engineer Funk on July 11, 1949. No indication of undercutting was found.

6. Examination and sounding should be made of the floor of stilling basin, at service spillway to ascertain if there has been any movement of the floor. This should also include an examination of the cut-off wall to determine if there has been any undercutting of the floor slab.

Examination was made by Engineer Funk on July 30, 1949. No indication of undercutting was found. The elevations of the floor of stilling basin does not check with the original plan. A detailed examination will be made of the floor sometime during the month of September.

7. Drain outlets on concrete slopes at service spillway should be rodded and cleaned out.

All drains rodded and cleaned July 8, 1949.

8. As weather permits additional grass sodding should be done on the Berkshire Levee.

We plan on doing this work during September and October, as I have found this time of year best for sodding.

9. Small trees should be removed from Berkshire Levee. Small animal holes or nests should be cleaned out and filled with earth.

Completed July 9, 1949.

10. Establish a plumb line from gate house to conduit floor in Gate Wells 1 and 4 to more accurately determine the lateral movement of the top of the gate well shafts.

This will be done when valve can be closed.

11. Reduce the speed of vertical travel of stems when opening or closing the gate valves. This should be accomplished by a reducing gear on each floor stand, or by a line shaft with pulleys on each floor stand of proper ratio.

Time for opening and closing valve was checked on August 13, 1949. We found that the motor being used could be slowed sufficiently for proper operation. The Custodian was advised to regulate the speed of the motor to allow a minimum of eight minutes time for opening and closing valves. Our present method of operation is satisfactory until a more suitable power unit can be found.

12. Run a line of levels across top of Berkshire Levee to compare its present elevation with the top of Main Dam.

Levels run by Engineer Funk on July 16, 1949. No part of the levee was below grade. Mr. Funk's report and field notes are filed.

13. Plat out the Berkshire gap and determine rock ledges below elevation 852. This will permit the determination of possible erosion at such time as water may flow through this gap. A limited amount of drilling may be necessary to determine the elevation and extent of the rock ledges.

The topography of the Berkshire Levee is given in the original set of plans. Additional information pertaining to this section is contained in a report by Engineer Funk on August 19, 1949.

CAPITAL IMPROVEMENTS

1. Provide suitable portable gasoline engine for operating the hoists at the service spillway.

We are making an investigation to determine the most suitable power unit.

2. Provide overhead rail, traveling crane and cage at gate house for operation in the gate wells. This will permit proper adjustment of guide bearings for valve stems. It will also permit proper and regular inspection of the gate wells and valve assemblies. In the design consideration should be given to the desirability of providing equipment of sufficient size and strength to lift the valve assemblies. If the cost of electric service is not feasible, gasoline driven hoist will be required.

Waiting on approval of plan by Mr. Nichols for installing overhead rail. We have suitable equipment ready to adjust guide bearings for valve stems as soon as the valve now open can be closed long enough to do the work, which will be within thirty days.

Yours very truly,

C. L. McNair.
General Manager.

BOARD OF DIRECTORS

JOE B. HOGSETT, PRES.
HOUSTON HILL, VICE-PRES.
DAN H. PRIEST, SEC'Y
GAYLORD J. STONE
W. L. PIER

TARRANT COUNTY WATER CONTROL AND
IMPROVEMENT DISTRICT NUMBER ONE

DANCIGER BUILDING - COR. 5TH AND THROCKMORTON STS.

PHONE 3-2848

FORT WORTH 2, TEXAS.

September 12, 1949.

SIDNEY L. SAMUELS,
GENERAL ATTORNEY

C. L. MCNAIR, GENERAL MANAGER

ED. B. CHEATHAM,
OFFICE MANAGER

To be attached to Minutes
of Sept. 16, 1949, at
1:30 P.M.

To: The Board of Directors,
Tarrant County Water Control and
Improvement District Number One.

Gentlemen:

Progress report in respect to operations and maintenance as recommended by Mr. M. C. Nichols, of the Firm of Freese and Nichols in report of July 12, 1949.

EAGLE MOUNTAIN DAM

1. Present routine maintenance and operation is satisfactory and should be continued.

No change.

2. Gates at service spillway should be raised and lowered about 10 feet to make certain they are in good operating condition.

Delayed until hoisting unit selected. We are investigating equipment.

3. Some replacement of the wooden platform planks at the gate hoists should be made.

Defective boards replaced with 2x12 redwoods on August 18, 1949.

4. Stems on gate valves should be aligned and adjusted.

Adjustments will be made when valve can be closed.

5. Repairs should be made immediately on the case of Valve 4-A.

It is not advisable to attempt welding the valve case. We plan to insert a steel sleeve to re-inforce the valve body. Will probably be done in October.

6. All valves, including air valve assemblies, in the valve chambers should be cleaned, wire brushed, and well covered with a protective grease.

Valves and assemblies have been cleaned. We have paint on hand to use instead of grease for this job, and hope to complete cleaning and painting this month.

To Board of Directors.

P. 2.

7. Manhole steps should be set on the inside of the valve chamber in the east conduit to permit of better access over the top of the concrete plug.

Redwood ladders are made and ready to install as soon as the valve can be closed.

8. Periodic examination of the seeps in the conduits should be made. It is recommended that a hammer test be made to endeavor to detect any hollow space beneath the floor. As the floor is 24" thick, this test may be of no value.

On July 16th, the floor in each conduit was tested by hammer. All blows struck with hammer were solid. There was no change in the seep. There was no grit in the clear seep water.

9. Examination and sounding should be made of the floor of stilling basin at service spillway to ascertain if there has been any movement of the floor. This should also include an examination of the cut-off wall to determine if there has been any undercutting of the floor slab. It may be necessary to dewater the stilling basin to make a proper determination of this condition.

This was done on October 18, 1946, by Engineer Funk. His report which is on file was approved by Mr. Nichols.

10. The intercepting drainage ditch immediately adjacent to the(north)headwall of the stilling basin needs to be cleaned out.
(east)

Completed August 10, 1949.

11. It is recommended that a tile drain line back filled with gravel be built immediately adjacent to the(south)headwall of the stilling basin.
(west)

A tile drain with gravel back fill was completed August 5, 1949.

12. When lake falls below spillway the drain outlets on concrete slopes of service spillway should be rodded and cleaned out.

Incomplete.

13. It is recommended that a plan for intercepting and draining the seepage along the hill at the east end of the Main Dam be developed and constructed.

Tile drain and gravel backfill completed August 24, 1949.

14. Selected earth material should be placed on the eroded and washed areas of the downstream slope of the Main Dam.

Delayed until #3 under Capital Improvements determined.

15. When the fish hatchery ponds are drained in September or October, a careful examination of the seeps should be made.

Ponds have not been drained yet.

16. As soil and weather conditions permit, additional sodding should be done at the Main Dam.

Will be done during September and October.

17. If practicable the upper downstream slopes of both the Main Dam and Burgess Levee should have the weeds mowed in those areas having a fair stand of bermuda grass. In those areas of no bermuda the weeds should not be cut.

Mowing on both Dam and Levee completed July 18, 1949.

18. The sandstone obstruction in the tail ditch below the stilling basin at the Service Spillway should be removed.

Deferred until more important work completed.

19. Run a line of levels across the Main Dam. The Dam should be brought up to a uniform elevation - but in no event less than Elevation 682.

Levels run by Engineer Funk on July 27, 1949. His report and field notes are on file. A section of the Main Dam is slightly below grade. This part will be brought up to grade within sixty days.

20. Run a line of levels across Burgess Levee. The Levee should be brought up to a uniform elevation - but in no event less than Elevation 682.

Completed July 29, 1949, by Engineer Funk. His report is on file. No part of the Burgess Levee is below grade.

21. Plat out the Burgess Gap and determine rock ledges below Elevation 670. This will permit the determination of possible erosion at such time as water may flow through the gap. A limited amount of drilling may be necessary to determine the elevation and extent of the rock ledges.

This work shown on original plans.

22. Reduce the speed of vertical travel of stems when opening or closing the gate valves. This could be accomplished by a reducing gear at each floor stand, or by a line shaft with pulley on each floor stand of proper ratio.

Test on valve operating time made August 16, 1949. We found that the R. P. M of motor now in use could be slowed to satisfactory

raising time for valve stem. The Custodian was advised to regulate the speed of the motor to allow a minimum of eight minutes for opening and closing of the valves. This method will be satisfactory until a more suitable power unit can be obtained.

CAPITAL IMPROVEMENTS.

1. Provide suitable portable gasoline engine for operating the hoists at the service spillway.

We are investigating power units to determine the most satisfactory one for this job.

2. Provide overhead rail, traveling crane and cage at gate house for operation in the gate wells. This will permit proper adjustment of guide bearings for valve stems. It will also permit proper and regular inspection of the gate wells and valve assemblies. The valve assemblies are almost inaccessible at the present time due to the height of the concrete plugs in the conduits. In the design, consideration should be given to the desirability of providing equipment of sufficient size and strength to lift the valve assemblies. If the cost of electric service is not feasible, gasoline driven hoist will be required.

Plans for anchoring overhead rail to be approved by Freese and Nichols.

3. It is recommended that further study be made of the cost of cutting a new tail ditch below the conduits at the Main Dam. Additional right-of-way will be required. The excavation could be used in part to plate or dress up the eroded areas on the downstream slope of the Main Dam. If this tail ditch condition is not improved, other protective measures will be needed near the west wing wall of the conduits.

Freese and Nichols are to make a study of the plan.

Respectfully submitted,

C. L. McMain
General Manager.

CLM:mh