

Water Right Number 4089-3

1. Considered 10-6, 19 77
2. Name of Applicant CANTON DEVELOPMENT CORP.
3. Post Office Address CANTON
4. Amount of Water claimed 35 AC. FT. ANNUALLY
5. Source of Water supply DRY DRAW
6. Water to be used for RECREATION
7. Acres to be irrigated _____
7. Water to be diverted and used in LINCOLN County
about NE EDGE miles _____ of CANTON
8. Proof of Publication Received 9-9-77
Not Received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action Deferred _____

10. Remarks:

To Appropriate Water within the State of South Dakota

1. Name of Applicant Canton Development Corp. Harry Dykstra President
Postoffice address Canton, , State South Dakota
If a corporation show date and place of incorporation October 9, 1968- South Dakota
2. Method of accomplishing work (contract, employment of others, or by direct labor) contract
3. Name of diversion work Canton Development Corp. Lake
4. Amount of water claimed (cubic feet per second) 25 AC FT, INITIAL FILL - 35 AC FT ANNUALLY
5. Source of water supply Run-off
6. Location of point of diversion 3750 ft. 122°30' North by West from the NE corner Sec. 13-98-49

County Lincoln

7. Annual period or periods during which water is to be used storage only

8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) recreation

9. For irrigation use, _____ Total number of acres to be irrigated none

List below each forty-acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.

Land Description	No. Acres Irr.

10. Time required to complete construction of water supply system -- Dec. 1, 1994 / years. Additional time required to complete application of water to the proposed beneficial use storage only years.

11. Choice of newspaper for Notice of Intent to Appropriate Water publication Sioux Valley News

12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.

Storage only

B. Works proposed to transport water to place of use.

C. Works proposed to apply water to beneficial use.

Estimated Total Cost \$ 12,000.00

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map. (See instructions concerning preparation.)

STATE OF SOUTH DAKOTA

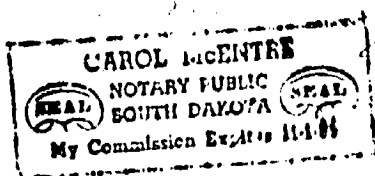
County of Lincoln

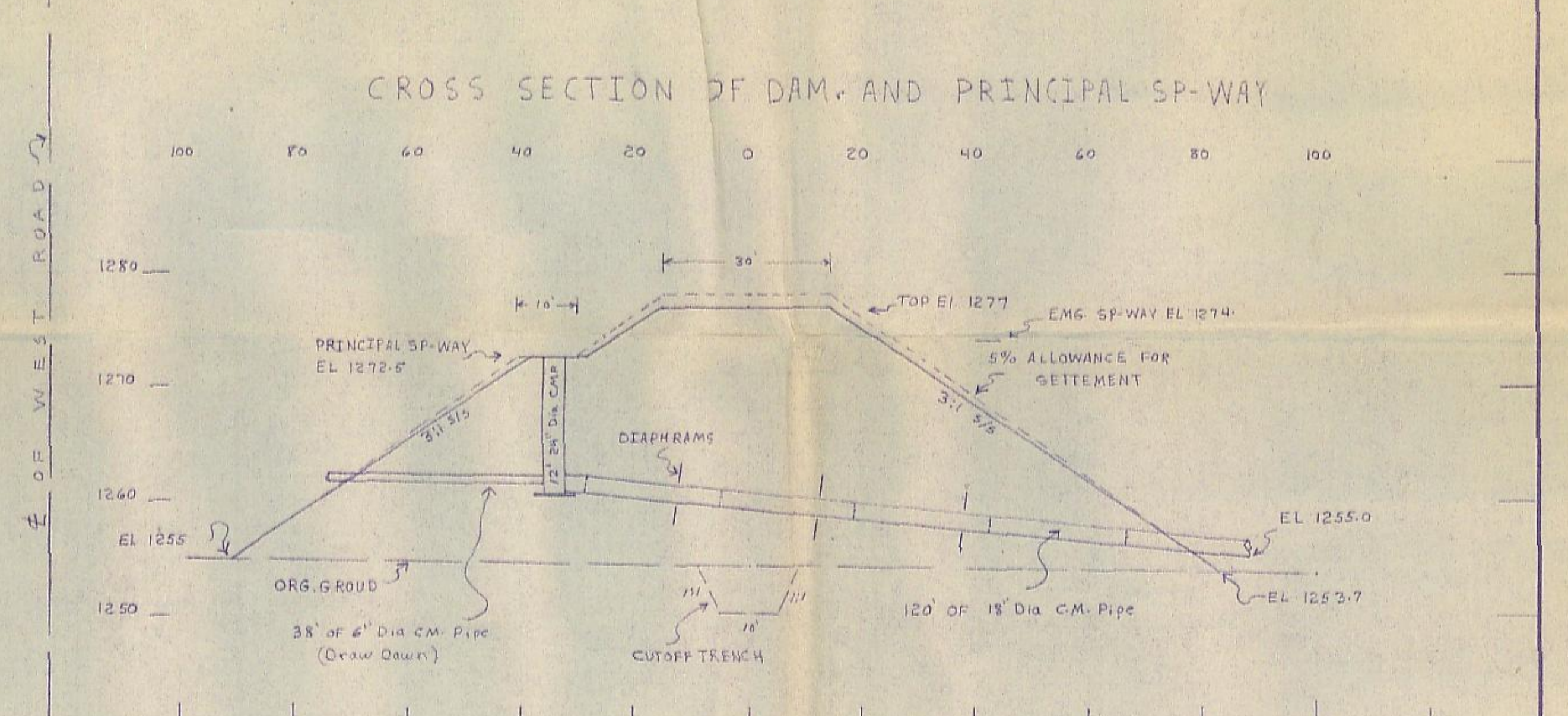
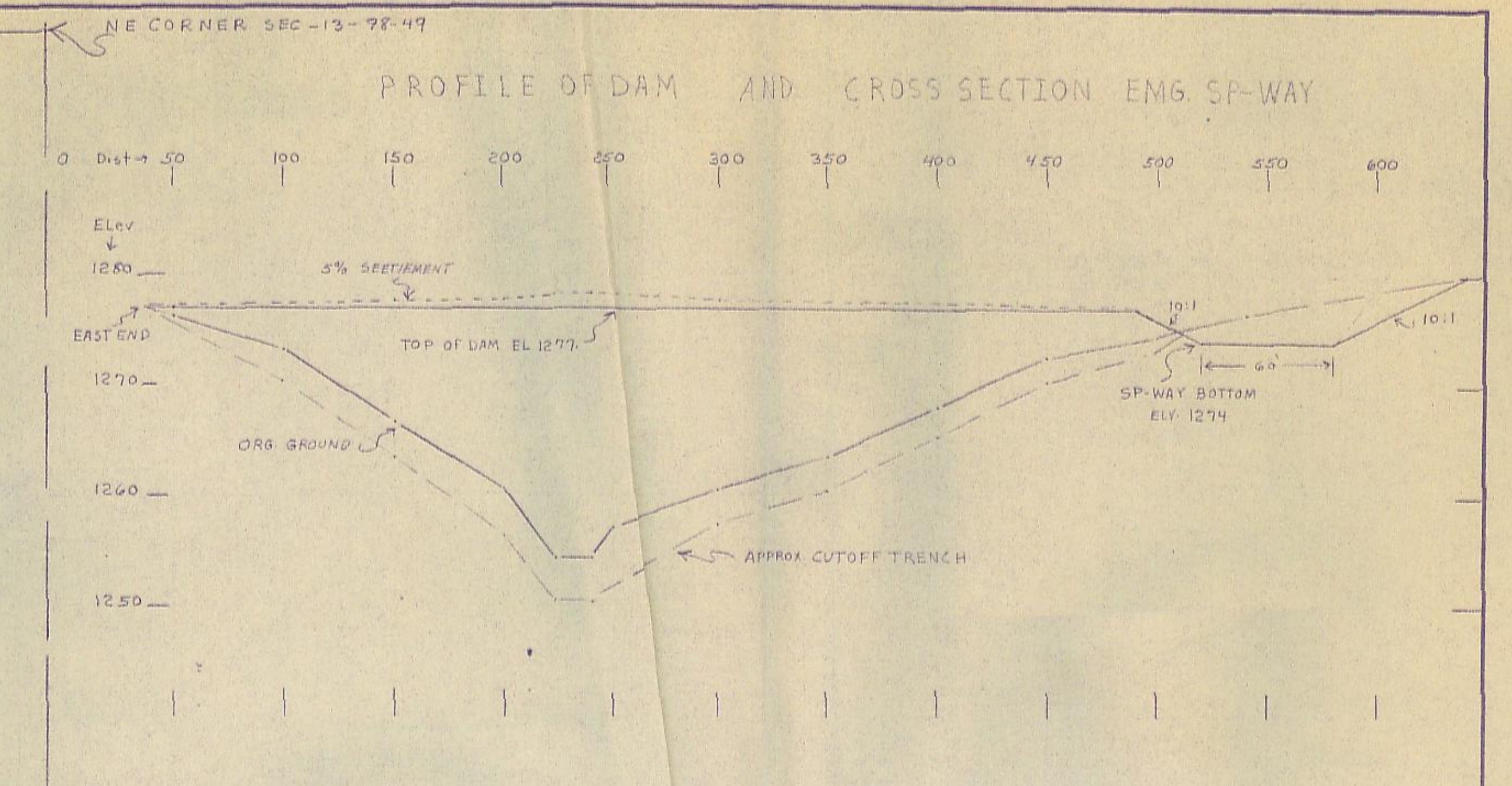
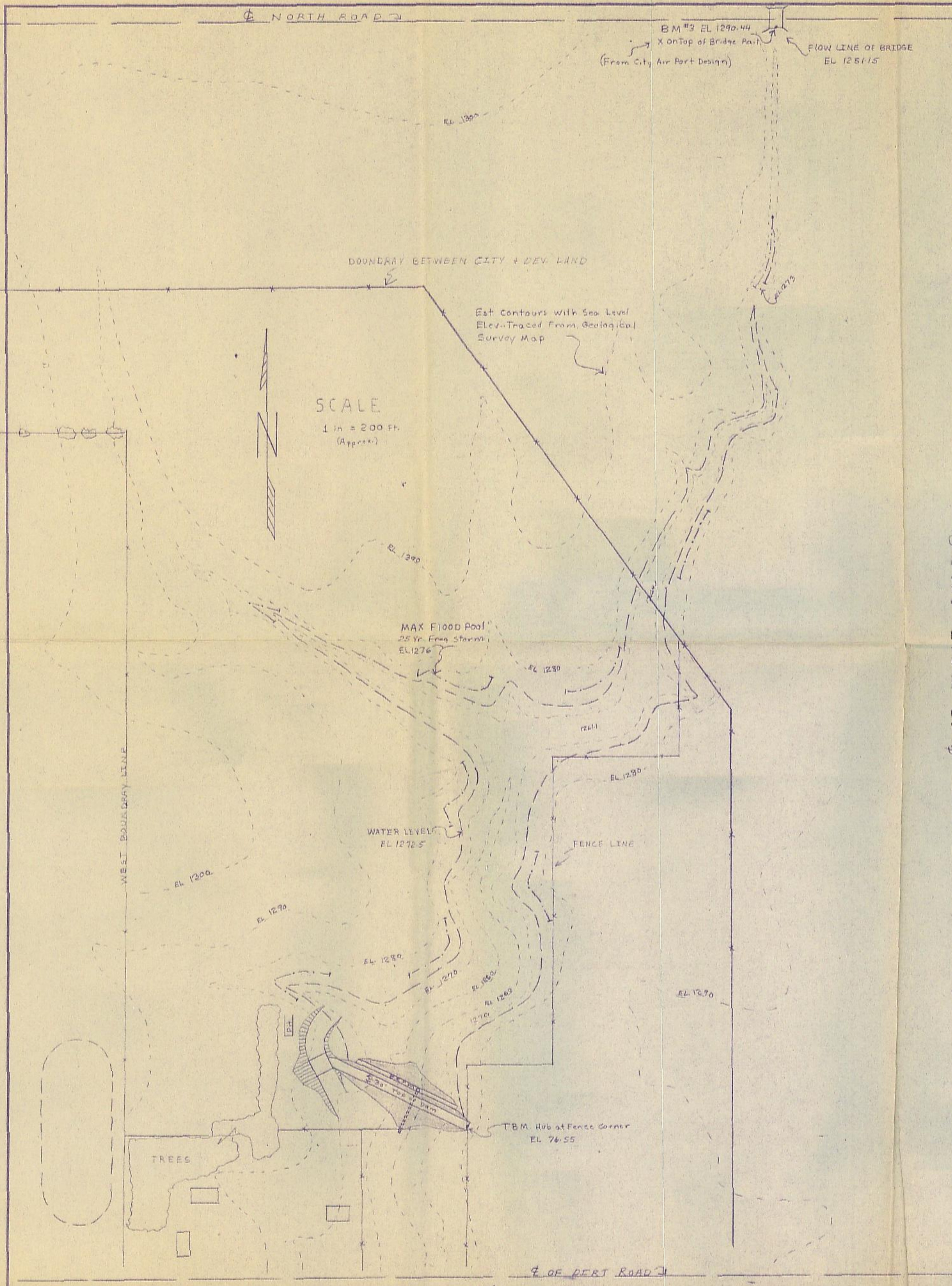
I, Harry Dykstra the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction

Subscribed and sworn to before me this 6th day of July 1977

Notary Public (or other qualified officer)

Lincoln Co. S. Dak.





STRUCTURE DATA

DRAINAGE AREA ACRES	ANNUAL YIELD AC. FT.	WATER DEPTH FEET	SURFACE AREA ACRES	SEDIMENT STORAGE AC. FT.	TOTAL STORAGE AC. FT.	AREA AT EMG SP-WAY ACRES	AREA AT MAY FLOOD 25 Yr Storm ACRES
1,698	107	17.5	11.6	248	75	14.2	17.8

CANTON DEVELOPMENT CORP.
Recreation Dam - Preliminary Design
NW 1/4 SE 1/4 - 13 - 78 - 49

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed Jim Myers Date 6-77
Drawn Jim Myers Title _____
Traced _____
Checked _____

Sheet 3 of 3
Drawing No. _____

U.S. GOVERNMENT PRINTING OFFICE: 1969 O-354-783

MAINTENANCE 3 APR 1978 4089-3

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 4089-3
CANTON DEVELOPMENT CORP. CANTON
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57013 With the following modifications.
 (State)

LOW FLOWS AS NEEDED FOR DOWNSTREAM DOMESTIC USE, INCLUDING LIVESTOCK WATERING, MUST BE BY-PASSED.

Date of first receipt of application JULY 8 19 77
 Date of return to applicant for correction, amendments or changes required JULY 8 19 77
 Date of receipt of corrected application JULY 15 19 77
 Approved OCTOBER 6 19 77 Recorded in Book 19 Page 112
 WATER RIGHT PERMIT NO. 4089-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 4089-3 authorizing the construction of the water use system and the putting of water to beneficial use, as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is JULY 8 19 77
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before APRIL 6 19 78
3. The whole of said work is to be completed on or before OCTOBER 6 19 78
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is OCTOBER 6 19 78
5. The water appropriated shall be used for the purpose of RECREATION
6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.
7. The amount of the appropriation herein granted shall not exceed 35 ACRE FEET ANNUALLY; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for ~~beneficial use~~ used for recreational purposes OCTOBER 6 19 78; said water to be used during the following described annual period: CONTINUOUSLY

Witness my hand this 1ST day of NOVEMBER 19 77

WATER RIGHTS COMMISSION

By:

John Ketch
 Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 _____

Water License Issued _____, 19 _____

12. Principal Features of the Proposed Water Supply System (continued.)

D. Well Information or Estimates

- (1) Drill Hole, Diameter _____, Depth _____
- (2) Casing, Type _____, Diameter _____, Thickness _____
(wood, concrete, steel, etc)
- (3) Perforated Screen.
Type _____, Diameter _____, Length _____
- (4) Gravel Pack, Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates.

- (1) Surface dimensions _____, Depth _____

F. Fill out for Either a Well or a Dugout.

- (1) Water Bearing Materials. (Please attach a copy to test well log if available.)

Character of Water bearing materials _____

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

- (2) Distance to nearest existing household or livestock watering wells.

On same owner's property _____ rds. On property owned by others _____ rds.

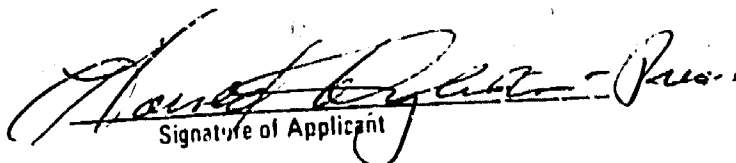
G. Water Storage Dams.

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, maximum water depth, surface area and storage capacity of each storage dam. The location of each water storage dam should be shown on the water right map.

Height 20 ft. - Maximum water depth 17 ft.

Surface area 11.6 ac. - capacity 75 ac. ft.

CANTON DEVELOPMENT CORP.


Signature of Applicant

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Lincoln) ss.

I, Marie Reitzel hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Sioux Valley News

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the _____

City of Canton

County of Lincoln and State of South Dakota;
that the said notice was published in said newspaper on the following
two dates:

September 1, 1977

September 8, 1977

Marie Reitzel
(Signature)

Bookkeeper
(Title)

September 8, 1977
(Date Signed)

NOTICE OF HEARING
ON APPLICATION
TO APPROPRIATE WATER

Notice is hereby given that
Canton Development Corp. whose
post office address is Canton,
South Dakota, has made an
application in accordance with the
provisions of SDCL 46-1-1 thru
46-1-8; 46-2-9 thru 46-2-11, 46-
2-13; 46-5-1 thru 46-5-8, 46-5-
10 thru 46-5-22, 46-5-41, and
Commission Rules ARSD
52:01:01:01 thru 52:01:01:13, for
a permit to appropriate for
beneficial use 75 acre feet of
water per year of time from run-
off through the Canton
Development Corp., Lake, the
point of diversion of which is to be
located in the NW1/4SE1/4 of
Section 13, Township 98 North,
Range 49 West. Said water to be
used for recreational purposes.

This Application No. 4089-3
will be considered by the Water
Rights Commission at the Holiday
Inn, Spearfish, SD upon the 6th day
of October, 1977 at 10 a.m. The
Commission is authorized to
make a determination on this
application at the hearing. All
interested persons may appear
and be heard. Any person who may
be affected by a Commission
decision who desires to present
evidence or cross-examine
witnesses according to SDCL 1-
26 may notify the Commission in
writing prior to the hearing or
orally at the hearing.

Water Rights Commission
James Winterton
Water Rights Specialist
(9-1-8)



Form 6 - Notice of Intent to Appropriate Water
SURFACE WATER

No. 4089-3

Publish first publication, on or before September 15, 1977

NOTICE OF HEARING ON
APPLICATION TO APPROPRIATE WATER

Pierre, South Dakota 57501

August 29, 1977

Notice is hereby given that Canton Development Corp. whose post office address is Canton, South Dakota, has made an application in accordance with the provisions of SDCL 46-1-1 thru 46-1-8; 46-2-9 thru 46-2-11, 46-2-13; 46-5-1 thru 46-5-8, 46-5-10 thru 46-5-22, 46-5-41, and Commission Rules ARSD 52:01:01:01 thru 52:01:01:13, for a permit to appropriate for beneficial use 75 ~~8000~~ ^{acre} feet of water per ~~year~~ of time from the run - off through the

Canton Development Corp., the point of diversion of which is to be located in the Lake

NW 1/4 SE 1/4

of Section 13, Twp. 98N Range 45W. Said water to be used for ~~XXXXXX purposes~~
~~XXXXXX irrigation purposes for the following described land:~~

recreational purposes

This Application No. 4089-3 will be considered by the Water Rights Commission at the Holiday Inn, Spearfish, SD upon the 6th day of October, 1977 at 10 A.M. The Commission is authorized to make a determination on this application at the hearing. All interested persons may appear and be heard. Any person who may be affected by a Commission decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Commission in writing prior to the hearing or orally at the hearing.

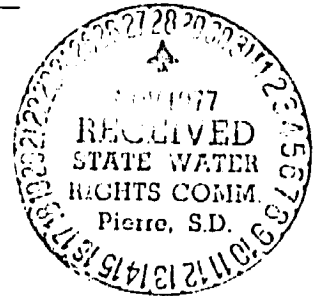
WATER RIGHTS COMMISSION

JAMES WINTERTON
Water Rights Specialist

cc: Canton Development Corp., Canton, SD 57013

Form 10.

No. 11087-3



NOTICE OF COMPLETION OF WORKS AND/OR
APPLICATION OF WATER TO BENEFICIAL USE

Post Office CANTON

Date November 23, 1977

TO: Water Rights Commission
Joe Foss Building
Pierre, South Dakota 57501

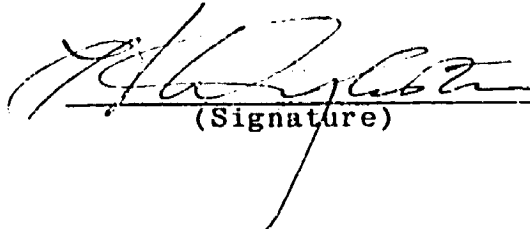
Dear Sirs:

This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to the maximum extent it is going to be used, not exceeding the amounts as specified in Water Right Permit No. 4089-3.

Water Right Permit No. 4089-3 states that the diversion system is to be constructed by Oct - 6, 19 78 and that the water is to be put to beneficial use by Oct. 6, 19 78.

The diversion system was completed on Nov. 1, 19 78.
Applying the water to beneficial use was completed on INC,
19 .

You may schedule an inspection so that the Certificate of Construction and/or the Water License may be issued, thus completing my acquisition of a water right.


(Signature)

Sioux River Water District

TO: Chief Engineer, Division of Water Rights, DWR, Foss Bldg., Pierre, SD 57501

I have this day made a thorough examination of the water use system constructed by Canton

Development Corp. of Canton, S.D. holder of

Permit No. 4089-3, bearing the priority of July 8 19 77 authorizing
initial Sill of Backland Storage of 35 acre. feet/year
diversion of 35 surface water of the waters of surface water

for recreational purposes, in Lincoln County.

I have to report on the conditions of the same as follows:

- A. Works used to divert the water: Rolled earth dam 455 ft long, 27 ft. high
Storage capacity at normal pool - 68.4 acre feet
Surface area of impoundment - 12.6 surface acres
- B. Works used to transport water to place of use:
N.A.
- C. Works used to apply water to beneficial use:
N.A.

The system is in the following condition good

The point of diversion is located 3600 FT. East and 1900 FT. North of SW corner
of section 13 T98N-R49W

The works are capable of diverting and ~~conveying to the place of use~~ ^{storing} 68.4 acre feet
~~cubic feet per second~~ of water which is to be used for recreational purposes

Water has been put to beneficial use to the maximum extent as follows: as described above,
See Dam Inspection Report for further information, S.D. ID# 02142

comprising a total of _____ acres of land and the license should be issued for 68.4 acre feet

Applicable permit qualifications have been complied with X Yes No

Exceptions to compliance are: _____ Date 5-5-85

Kevin P. Larson
(sig. initials)



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

Division of Water Rights
605 773-3352

No. 4089-3

October 29, 1985

Canton Development Corporation
c/o Harry Lykstra
Canton, South Dakota 57013

Dear Sir:

The inspection of your water use system and inspection of the extent of the application of water to beneficial use, as developed under your Water Right No. 4089-3 has been completed. Your final water right document, the Water License, can now be issued.

Statutes require that we charge a \$50.00 fee for the inspection and issuing of the Water License. Upon receipt of the \$50.00 fee from you, your Water License will be sent to you.

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until this \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

Maxine Stirling
Staff Assistant

ms/

NOTE: On form of payment, please include the number of the water permit. This insures proper handling of the fee.

RUDOLPH AND BOGUE

ATTORNEYS AT LAW
206 EAST FIFTH STREET

P.O. BOX 38

CANTON, SOUTH DAKOTA 57013-0038

October 30, 1985

BLAINE O. RUDOLPH
RICHARD BOGUE

TELEPHONE
CANTON: (605) 987-2686
LENNOX: (605) 647-5152



Ms. Maxine Stirling
Staff Assistant
South Dakota Department of Water & Natural Resources
Joe Foss Building
523 East Capitol
Pierre, SD 57501

RE: Canton Development Corporation
Water Right #4089-3

Dear Ms. Stirling:

Harry Dykstra is no longer on the Canton Development Board. We can not find reference to the above Water Right and would appreciate having a copy of the application or information in regard thereto so that we can advise the Board with respect to payment of the \$50.00 inspection fee.

Thanks for your help.

Very truly yours,

RUDOLPH AND BOGUE

BY 

BLAINE O. RUDOLPH

BOR/v

cc: Vince McKenney

Water Rights Division
605 773-3352

November 4, 1985

4089-3

Blaine O Rudolph
Rudolph and Bogue
206 E 5th St
PO Box 38
Canton SP 57013-0038

Dear Mr. Rudolph:

I am contacting you in regard to your letter of October 30, 1985 regarding Water Permit No. 4089-3. Enclosed is a copy of the permit as issued to Canton Development Corporation.

If you have any further questions, please contact us.

Sincerely,

GENNY MCMATH
Natural Resources Analyst

GM:ks

enclosure

RUDOLPH AND BOGUE

ATTORNEYS AT LAW

206 EAST FIFTH STREET

P.O. BOX 38

CANTON, SOUTH DAKOTA 57013-0038

November 14, 1985

BLAINE O. RUDOLPH
RICHARD BOGUE

TELEPHONE
CANTON: (605) 987-2686
LENNOX: (605) 647-5152

Ms. Maxine Stirling, Staff Assistant
South Dakota Department of Water & Natural Resources
Joe Foss Building
523 East Capitol
Pierre, SD 57501

RE: Canton Development Corporation
Water Right #4089-3

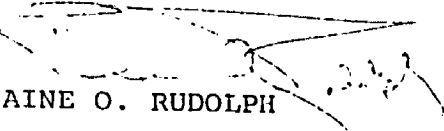
Dear Ms. Stirling:

Enclosed is Canton Development Corporation check for \$50.00 for the inspection and issuing of the Water License for Water Right #4089-3. Please forward the Water License.

Thanks.

Very truly yours,

RUDOLPH AND BOGUE

BY 

BLAINE O. RUDOLPH

BOR/v

enclosure



RECEIPT

Division of Water Rights

Nº 4-10237

South Dakota Department of Water and Natural Resources

Pierre, November 15, 1985

RECEIVED OF Canton Development Corporation, PO Box 3, Canton, SD 57013

the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct works and to put water to beneficial use _____

Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____

Fee to retain Future Use Permit No. _____ after period of seven years.

Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. 4089-3

Fee for Filing Transfer Form _____

Fee for Filing Extension Request _____

Fee for Certified Copy of _____

Fee for Print Copy of Map _____

Fee for Certifying _____

Fee for _____

(Any Other Work Provided by Law)

Total

50 00

By

Chief Engineer

John H. [Signature]

Memo

To: John Hatch

From: Gale N. Seiken

re: Permit No. 4089-3 Canton Development Corp.

Canton Dam S.D. ID# 02142 was inspected November 13, 1979 by Dewild, Grant, Reckert & Associates under the safety of dams program. The structure was found to be hydrologically unsafe in that the hydrologic analysis shows that the discharge capacity is approximately 10% of its ~~original~~ ~~design~~ ~~capacity~~.

A breach analysis was completed on the dam and the hazard potential classification was lowered to a significant rating. (see letter dated September 14, 1986 signed John Hatch).

Rules on Safety of Dams requires that a category 2 dam, small size, ~~must~~ have a spillway design flood of 0.25 PMF. The dam is still hydrologically unsafe even with the lower category rating.

An order will be drafted to the City of Canton for your signature to ~~order~~ order the dam fixed or breasted according to SDRA.

Status of Water Right No. 4089-3

Water Permit No. 4089-3 authorizes the storage of 35 acre feet annually to be used for recreational purposes

The permit has been inspected and the license written but may not have been issued. There was some question as to its safety because it passed only 10% of the PMF. The dam was reviewed and determined to be a category 2, small size dam. At the time the classification was reviewed Safety of Dams Rules required a category 2, small size dam to pass 25% of the PMF.

Current Rules state that a category 2, small size dam built before October 27, 1986 is exempt from the spillway requirements unless it is the only source of water for a water distribution system or failure would cause extensive downstream damage. However if the dam were required to, it would meet current standards. The standards require a category 2, small size dam to pass the 100 year event which in this case is approximately 300 cfs. The combined primary and secondary spillway is approximately 820 cfs.

The license was written up and signed, however a note on the front of the license says "not signed". The inspection fee has been paid and I see no reason not to retype the license, sign it, and mail it to the Canton Development Corporation.

The last correspondence went to Elaine Rudolph with Rudolph and Bogue Attorneys at Law P.O. Box 38. Canton SD 57013-0038.

Lynn Beck

9-9-97

Permit No. 4089-3
Sioux River - Water District

Report Of Examination Of Works And/Or Application of Water To Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, September 11, 1997 and May 20, 1998 made a thorough examination of the water use system constructed by Brigham Development, Inc. of P.O. Box 131, 1301 Holiday Drive, Canton, SD 57013 holder of Permit No. 4089-3, bearing the priority of July 8, 1977 authorizing the storage of 75 acre feet for initial fill and 35 (see comments) acre-feet annually of the waters of surface run-off for recreational purposes, in Lincoln County.

I have to report on the conditions of the same as follows:

A. Works used to divert the water:

A dam capable of impounding 68.4 acre feet of water.

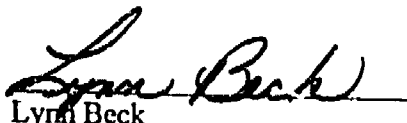
The system is in the following condition good. The point of diversion is located 3646' E and 1900' N of the SW corner of Sec. 13-T98N-R49W in the NW 1/4 SE 1/4 Sec. 13. The works are capable of storage of 68.4 acre feet of water which is to be used for recreation. Water has been put to beneficial use to the maximum extent as follows:

Dam located in portions of the E 1/4 of Section 13- T98N-49W.

the license should be issued for 68.4 acre-feet of storage.

Applicable permit qualifications have been complied with: yes

Exceptions to compliance are: none


Lynn Beck

6-3-99
Date

Natural Resources Engineer
DENR, Water Rights Program

Comments:

The application stated 75 acre feet for the initial fill and 35 acre feet annually. I believe the 35 acre feet was for annual evaporation. It was permitted for 35 acre feet annually, however the permit was advertised for 75 acre feet annually. Storage to the primary spillway is 68.4 acre feet.

REPORT ON INSPECTION OF PERMIT NO. 4089-3

DATE OF INSPECTION: original inspection 9-11-97, after improvements 5-20-98.

Other permit(s) associated with the project: none

NAME & ADDRESS OF INSPECTION CONTACT: Charles B. Molstad

RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE: President of Brigham Development, Inc.

NAME & ADDRESS OF PERMIT HOLDER: Brigham Development, Inc., P.O. Box 131, 1301
Holiday Drive, Canton, SD 57013.

DIVERSION POINT LEGAL LOCATION: Located in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 13-T98N-R49W approx.
3646' E and 1900' N of the SW corner of Sec. 13-T98N-R49W.

DAM INFORMATION:

- 1) Height to crest 22.2 feet height above stream bed, 27' structural height.
- 2) Height to primary spillway 17.2 feet
- 3) Height to secondary spillway 19 feet
- 4) Crest width 30 feet
- 5) Crest length 455 feet
- 6) Spillway length 165 feet
- 7) Spillway width 58 feet
- 8) Approx. storage 68.4 ac-ft
- 9) Approx. Storage to crest 158.7 ac-ft
- 10) Date constructed: 1977 and new primary spillway in 1998
- 11) Outlet tubes:
 - a) diameter 30 inches
 - b) type corrugated poly pipe
 - c) valved no
 - d) valve type n/a
 - e) location on structure 184' from east end.
- 12) Category of Dam 2
- 13) Inspection Sheet Completed yes

PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Special qualifications to permit being abided by yes
- 2) All structures, wells and lands on map yes

Beck, Lynn

From: Beck, Lynn
To: Selken, Gale; Hatch, John; Rath, Mark; Schaal, Tim
Cc: Beck, Lynn
Subject: Canton Dam
Date: Monday, September 22, 1997 11:36AM

I inspected the water right for the Canton Dam this month and found a new primary spillway and a large hole where the old spillway had been. The hole was approximately 20' x 10' x 10' deep located in the middle of the dam on the upstream embankment. The owner of the permit is the Canton Development Corporation however Gary Marshik now owns the property and had the new work done on the dam.

I contacted Gary Marshik and he has decided that he does not want the responsibility of the dam and is going to contract the City to see if they want the dam. If the City does not want it Mr. Marshik planned to leave the dam as is. I explained the importance of a controlled breach if the dam is not to be repaired and Mr. Marshik agreed.

Currently the old discharge tube is in place, it had rusted out, and if the dam is not breached the tube will be filled with concrete. I stressed the importance of filling in the hole left by the old spillway before winter while the water is low. Also that if the hole is not to be repaired the dam should be breached before winter. I will send Mr. Marshik a letter regarding the concerns in this e-mail. Mr. Marshik had questions about breaching a dam so I will include Tim's name and number.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

September 24, 1997

Gary Marshik
P.O. Box 37
Canton SD 57013

Dear Mr. Marshik:

I am writing in reference to our telephone conversation regarding your dam located in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 13-T98N-R49W. Some items need to be completed before we can proceed with the licensing of Water Permit No. 4089-3. If the dam is to be breached Water Permit No. 4089-3 will be canceled.

Water Permit No. 4089-3 is currently in the name of the Canton Development Corporation and authorizes the storage of 35 acre-feet annually with an initial fill of 75 acre-feet. If the permit is to be licensed a transfer of ownership form needs to be filed with the Water Rights Program, Department of Environment and Natural Resources. I have enclosed a transfer of ownership form and a copy of Water Permit No. 4089-3.

If the dam is to remain viable and the water permit is to be licensed, the owner of the dam needs to repair the large hole left by the removal of the old drop inlet spillway. The repair should consist of removing the discharge tube and filling the voids with engineered embankment material. This work should be done yet this fall to avoid a potential uncontrolled breach in the dam this spring. The work needs to be completed no matter who owns the property. If the property is sold, the new owner is responsible for the dam.

In addition to the repairs the overflow elevation on the new drop inlet structure is needed. The water permit will be licensed for a specific amount of water stored behind the dam. Any change in the overflow elevation will change the amount of water stored and may require a new permit.

If you decide to breach the dam the permit will be canceled. However the dam should not be left to breach on its own. A controlled breach should be done this fall while the water is low. A breaching plan and/or proposal will need to be reviewed and approved by the Water Rights Program. Also, a transfer of ownership is not needed if the dam is breached and the permit canceled.

Should you have questions concerning the repair or breaching of the dam please feel free to contact Tim Schaal at (605) 773-3352. If you have other questions don't hesitate to contact me at the same number.

A handwritten signature in cursive script that reads "Lynn Beck". The signature is written in black ink and is positioned above the printed name and title.

Lynn Beck
Natural Resources Engineer
Water Rights Program

enclosures

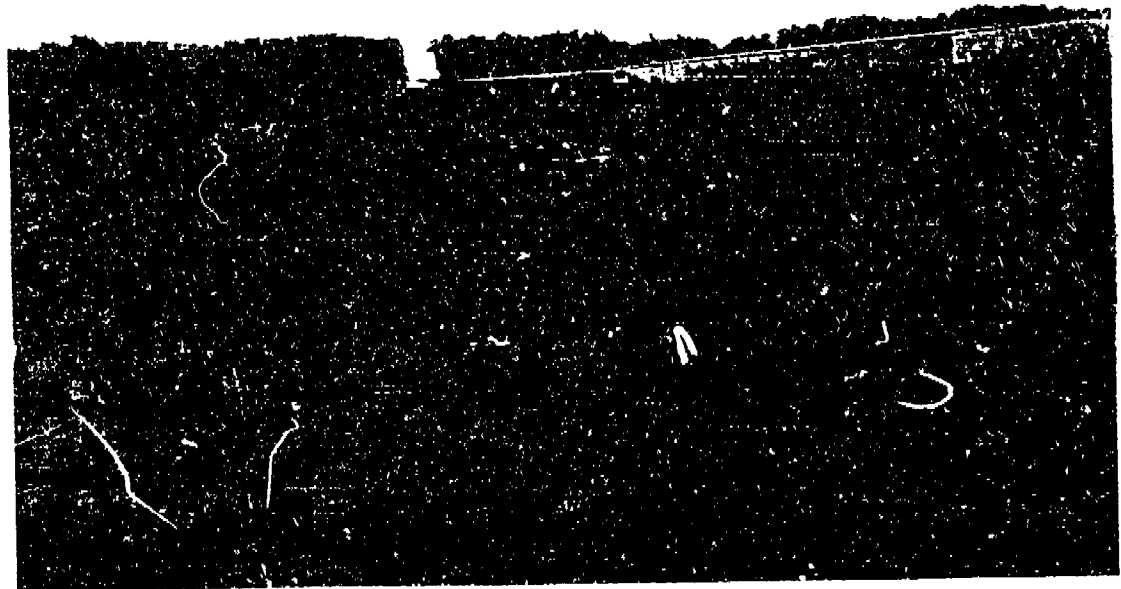
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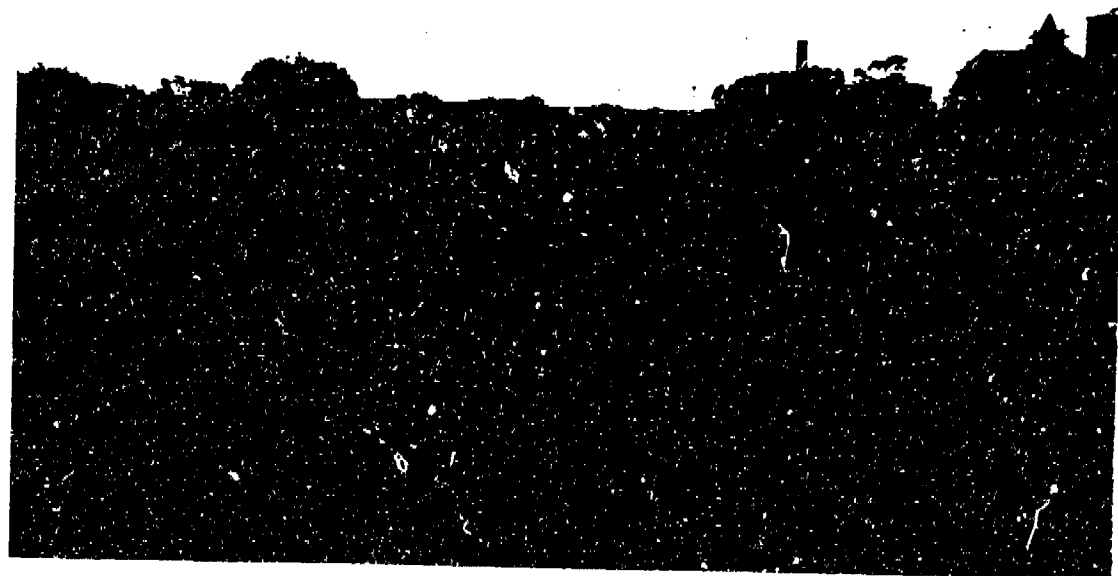
DOCUMENT (S)

BEST IMAGE

POSSIBLE













DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

FACSIMILE TRANSMITTAL COVER SHEET

TRANSMITTAL DATE: 12-19-97

PLEASE DELIVER THE FOLLOWING PAGE(S) TO:

NAME: Chuck Molstad

DESTINATION: _____

ADDRESS: _____

PHONE: (605) 332-5282 FAX: (605) 332-0150

MESSAGE: Dam at Christmas Tree Lake: The plan sheets are included,
however the actual surveyed elevations are on the PERTINENT
DATA sheets. If the dam is not repaired yet this winter it will
need to be breached to prevent a possible uncontrolled breach this
spring.

FROM: Lynn Beck / Tim Schaaf

AGENCY: DENR/WATER RIGHTS PROGRAM

ADDRESS: JOE FOSS BUILDING, 523 EAST CAPITOL, PIERRE, SD 57501-3181

PHONE: (605) 773-3352 FAX: (605) 773-4068

****THIS TRANSMISSION INCLUDES 5 PAGES INCLUDING THIS PAGE****

IF THERE IS ANY PROBLEM WITH THIS TRANSMITTAL, PLEASE CALL (605) 773-3352.

THANK YOU.

PERTINENT DATA

A. GENERAL

Name of Dam Canton No. 1
State South Dakota
Inventory of Dams I.D. Number SD 02142
Hazard Potential Classification 1
Owner Canton Development
Corporation

B. EMBANKMENT

Type Rolled Earth
Crest Length 455 Feet
Crest Width 30 Feet
Crest Elevation 1277.0 m.s.l.
Upstream Slope 1.0V on 3.0H
Downstream Slope 1.0V on 3.0H
Height above Stream Bed 22 Feet
Structural Height 27 Feet
Volume of Fill 17,498 C.Y.

C. SPILLWAY

Type Earth Cut
Location West Abutment
Side Slopes 1.0V on 1.0H
Crest Elevation 1,273.8 m.s.l.
Bottom Width 58 Feet
Length 165 Feet
Discharge Capacity 771 c.f.s. at 1,277.0 m.s.l.

D. OUTLET WORKS (Service Spillway)

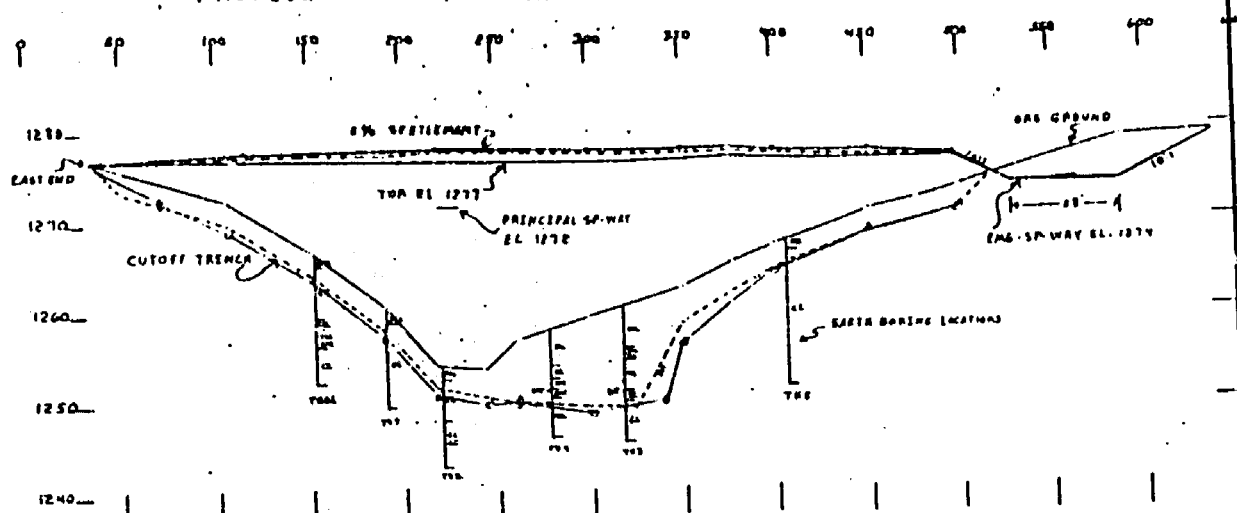
Inlet Type	Corrugated Metal Pipe
Inlet Diameter	30 Inches
Invert Elevation	1,258.2 m.s.l.
Crest of Inlet Structure	1,271.92 m.s.l.
Conduit Type	Corrugated Metal
Conduit Length	123 Feet
Conduit Diameter	18 Inches
Discharge Capacity at Elevation	50 c.f.s. @ 1,277.0 feet m.s.l.
Stilling Basin Type	Scour Hole
Outlet Invert Elevation	1,254.9 m.s.l.
Low Level Inlet Elevation	1,258.9 m.s.l.
Low Level Inlet Type	Corrugated Metal Pipe
Low Level Inlet Diameter	8 Inches
Low Level Conduit Length	52 Feet

E. RESEFVOIR

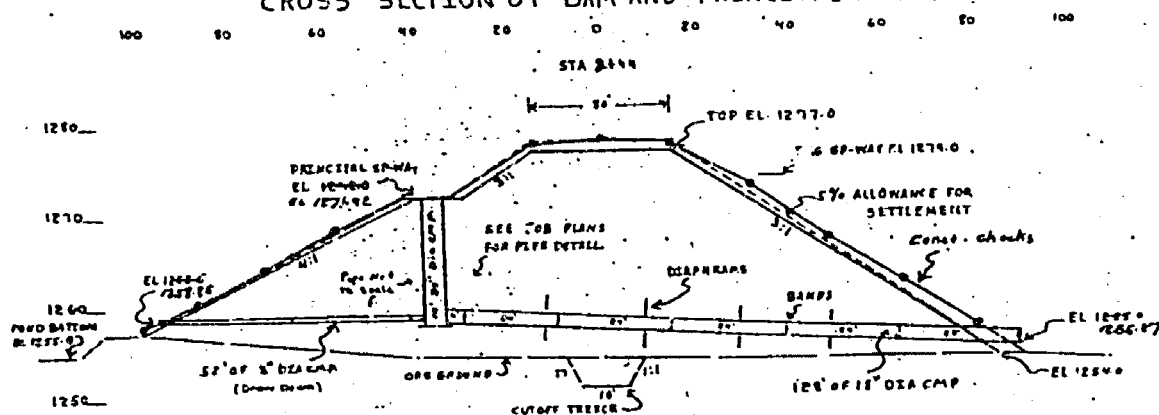
<u>Type of Storage</u>	<u>Storage Volume</u> (acre-feet)	<u>Elevation</u> (ft. b. l.)	<u>Surface</u> (acres)
Normal Pool	68.4	1,271.2	12.60
Spillway Crest	95.6	1,273.6	16.58
Maximum Pool	158.7	1,277.0	22.86

F. DRAINAGE AREA

Total Contributing Drainage Area 3.49 Square Miles



CROSS SECTION OF DAM AND PRINCIPAL SP-WAY



PROFILE EMG-SP-WAY



STRUCTURE DATA

DRAINAGE AREA ACRES	ANNUAL YIELD AC FT	WATER DEPTH FEET	SURFACE AREA ACRES	SEDIMENT STORAGE AC FT	TOTAL STORAGE AC FT	AREA AT HIGH FLOOD FT ² per AC FT
936	116	17	18.7	24.8	7.5	21.3

CONSTRUCTION NOTES

1. Side Slopes next to Level Section on the SPWAY ARE 1:1. The Inlet and Outlet Section have 1 1/2:1 Side Slopes
2. Travel Dike Will be Const. With a 4:1 Top and 1 1/2:1 Side Slopes
3. The borrow taken North West of Dam will be Utilized in order to shape a beach area. Guide lines for grade will be provided at time of construction
4. Top Soil is to be placed on all exposed cut & Fill Areas that are above Elev. 1571 except Back Slope of Fill is to be covered w/ the way to slope Top Depth of Cover Approx. 6"
5. This Plan is complete only with the attached Job Plans. 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 88

CANTON DEVELOPMENT CORP.
Recreation Dam - Final Design

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

~~George~~ Tim Myers

From... J. L. MYLES

Abstract

1990

NOTICE OF TRANSFER OF OWNERSHIP

No. _____

TO: Chief Engineer
Water Rights Division, DWR
523 East Capitol
Pierre, SD 57501-3181

Date: 11/9/98I, We request that Water Permit/Right No. 4084-3formerly owned by: CANTON DEVELOPMENT CORP OR GARY MARSHALLbe transferred to: (name & address) BRIHAM DEVELOPMENT INC.PO BOX 131, CANTON, SD 57013-0131 (telephone No.) 605-987-0053

Title to the following described land(s)/property has been transferred as described above:

TRACT #3 INDUSTRIAL PARK ADDITION TO CITY OF CANTON, SD

I/We understand that the validity of Water Permit/Right No. 4084-3 has not been determined by this transfer action. If I/We have any questions on validity, I/We understand that only the Water Management Board has the authority to determine if a water permit/right is valid (see note).

You are requested to file this "Notice of Transfer" in the appropriate file at the Division of Water Rights, as evidence of the change of ownership.

A fee of Two Dollars and Fifty Cents (\$2.50) is attached to cover the filing fees as required under SDCL 46-2-13.

STATE OF SOUTH DAKOTA)

County of LINCOLN)

I/We BRIHAM DEVELOPMENT INC being first duly sworn on my oath depose and say that my relation to the above described undertaking is that of Owner, that I have read the above foregoing statement, and that I know of my own personal knowledge that the information herein stated is true.

BRIHAM DEVELOPMENT, INCBy Charles BranstetterIT'S PRESIDENT

(Signed)

Subscribed and sworn to before me this 17th day of November, 19 98.

(Notary Public) My Commission Expires 11-8-2002

NOTE: Water permits may be cancelled for nonconstruction within the five year construction period. Once a water permit is developed and the water used, the permit becomes a water right. A water right may be lost for three reasons:

1. Abandonment - no intent to use water and use is abandoned.
2. Forfeiture - no use of water for three year period without legal excuse.
3. For a third violation of a condition of a water permit/right.

Charles Branstetter

BRIGHAM DEVELOPMENT, INC.

PO BOX 131
Canton, SD 57013-0131

November 12, 1998

Chief Engineer
Department of Natural Resources
Water Rights Division
523 East Capitol
Pierre, SD 57501-3181



RE: PERMIT NO. 4089-3

Chief Engineer,

Recently, Brigham Development, a South Dakota Corporation, has purchase the property platted as Tract #3, Industrial Park Addition to the City of Canton, South Dakota. This property includes a dam previously constructed by the Canton Development Corp. and transferred to Mr. Gary Marshik.

During the time in which Mr. Marshik owned this property the dam became in a state of disrepair (the outlet structure was damaged by a contractor employed by Mr. Marshik). Brigham Development repaired the dam upon purchase of the property. The old structure was remove and the outlet tube was filled with concrete, the face of the dam back filled & compacted, bentonite placed on the face of dam on the effected area and topsoil replaced & seeding.

Please find enclosed the NOTICE OF TRANSFER OF OWNERSHIP form with the enclosed filing fee.

If you have any questions or need further information or documentation, please contact our office at your convenience.

Sincerely,

BRIGHAM DEVELOPMENT, INC.

by Charles B. Marshall

it's President

RECEIPT
Water Rights Program
South Dakota Department of Environment and Natural Resources

No 415920

RECEIVED OF Brigham Development, Inc. P.O. Box 121, Canton, SD 57013-0131
the following amount in fees for services rendered as provided for by law: Pierre, _____ November 19, 19 98

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use _____		
Fee for Application for Permit No. _____ to Appropriate Water, for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form <u>Water Permit No. 4089-3</u>		
Fee for Filing Extension Request _____		2 50
Fee for _____		

(Any Other Work Provided by Law)		
Total	2	50

By *John A. Hatch*
Chief Engineer

File No. 2142

Water Rights Division -DENR
Conversation or File Documentation

NAME OF PERSON OR FILE: Canton Development Dam (ID No. 2142)

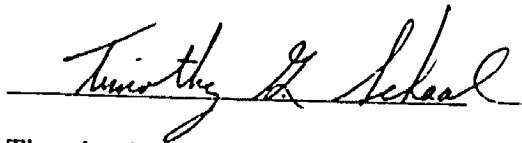
ADDRESS: XXXXXXXXXXXXXX COUNTY: Lincoln

DATE: November 30, 1998 TELEPHONE: XXXXXXX

RE: Inspection of spillway repair

On May 20, 1998, Gale and I stopped and inspected the spillway repair project at the Canton Development Dam. They installed a new drop inlet spillway structure near the right abutment. The old spillway and scour hole had been filled in and the overall project looked good.

There had been a question on the elevation of the new riser and it appeared they cut a notch in the riser to correct the reservoir elevation. The elevation of the notch should still be confirmed.



Timothy G. Schaal, P.E.
Natural Resources Engineer III
Water Rights Program

May 20, 1999

Lynn Beck
Department of Environment & Natural Resources
Foss Building
Pierre, South Dakota 57501



RE: Dam Permit Canton, SD

Ms. Beck,

Please find enclosed a sketch of the new location of the outlet structure for the dam.

The elevation were set to the same as the original dam construction. The previous owner provided original dam construction documents & as built for this purpose.

The old out let structure was excavated & remove, low slump concrete was used to plug the dam side & outlet side of the existing outfall structure. The disturbed area was backfilled and compacted with a layer of bentonite place on the face of the dam side. New riprap was placed around the new outlet structure to prevent erosion.

It is important to note the dam and property is owned by BRIGHAM DEVELOPMENT, INC.

Address PO Box 131

1301 Holiday Drive

Canton, SD 57013

If you have any questions, please contact me at your convenience.

Sincerely,

Brigham Development, Inc.

by: Charles B. Molstad
It's President



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

AUG 5 1999

4089-3

Brigham Development, Inc.
%Charles B. Molstad
P.O. Box 131
Canton, SD 57013-0131

Dear Mr. Molstad:

Enclosed is Water License No. 4089-3 and Receipt No. 415920 for \$2.50 for the Transfer of Ownership of this Water License. Water License No. 4089-3 is the final document which completes the process of obtaining a water right.

As long as you use the water beneficially, as stated in the Water License, State Water Laws provide that you have a continuing right to use the water.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Program
(605) 773-3352

ks
enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 4089-3

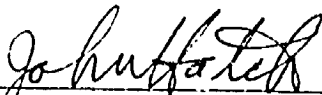
(1) Canton Development Corp., Canton SD made Application No. 4089-3, July 8, 1977 for a water permit to impound 75 acre-feet of water from runoff, Lincoln County, South Dakota for recreational purposes. Permit No. 4089-3, with a priority date of July 8, 1977 was approved October 6, 1977 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before October 6, 1978 and for the application to beneficial use of said water on or before October 6, 1978.

On November 19, 1998, Water Permit No. 4089-3 was transferred to Brigham Development Inc.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the storage dam and is entitled to impound 68.4 acre-feet of water for beneficial use with sufficient water annually to maintain the water level to the outlet elevation. The location of the storage dam is 3,646 feet east and 1,900 feet north of the southwest corner of Section 13-T98N-R49W (NW ¼ SE ¼).

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Brigham Development Inc., PO Box 131, Canton SD 57013-0131 the holder and/or owner of Water Right No. 4089-3 is issued a license to appropriate water, the right to impound 68.4 acre-feet of water from runoff with sufficient water annually to maintain the water level to the outlet elevation with a priority date of July 8, 1977 from the location specified in (2) of this license. for recreational purposes. This license is subject to any limitations or qualifications listed in Water Right No. 4089-3 and subject to South Dakota State Law.


JOHN HATCH, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

AUG 5 1999

date



25.6

19.8

64.4

(3-73)

151.6

74.3

525

1680

20.8

5150

11.1

2.3

3.1

13.4

6.1

10.4

23.9

1.0

725

13

Canton Development Corp Dam

39.5

2.6

1.1

2.1

16.2

8.0

30.6

2.2

98-49

4089-3

Schaal, Tim

From: Myron Adam <mkadam.jsa@midconetwork.com>
Sent: Friday, July 25, 2014 9:13 AM
To: Schaal, Tim; molstadproperties@gmail.com; 'Sean Pederson'; 'Bill Thorson'; 'Jeff Fossum'; 'Peters, DelRon'; mkadam.jsa@midconetwork.com; 'Chuck Smith'
Subject: Meeting Minutes - Christmas Lake Dam downstream erosion

A meeting was held on Wednesday, July 23, 2014 on-site of the Christmas Lake dam in Canton, South Dakota. Present at the meeting were Tim Schaal with SD DENR, Chuck Molstad with Brigham Development (property owner), Sean Pederson, Bill Thorson and Jeff Fossum with the City of Canton, DelRon Peters with HDR and Myron Adam with JSA. The following items were generally discussed:

1. Tim Schaal (DENR) noted that options were to siphon lake down, controlled breach, or repair existing emergency spillway, if there is no change to the hazard rating. Tim indicated that DENR would probably not recommend a controlled breach unless the dam becomes a High Hazard classification. If hazard rating were increased to High Hazard (H1), the spillway and outlet are most likely very undersized and significant modifications would be required. No course of repair action was determined at this time due to the number of issues still to be resolved.
2. Tim Schaal noted that the corrugated poly pipe used for the outlet is not recommended. DENR noted that sand bags in the outlet structure should be removed as they could plug the outlet. These were put in by a concerned citizen, not the owner.
3. Tim Schaal noted that any downstream housing impacted by the spillway will be an issue and could change the hazard rating.
4. DelRon Peters (HDR Engineering) noted that HDR has only preliminarily reviewed the available information, but given the amount of time before the dam could be properly repaired, HDRs recommendation will likely be to conduct a controlled breach of the dam to allow time to work out the funding and design and construct repairs. Noted that the apparent risk is that another storm event that would cause the emergency spillway to flow, presenting a real threat to the integrity of the dam. It was noted that a breach analysis has not been conducted to date and the extent of the impact of an uncontrolled breach has not been completed.
5. HDR noted that the SD NRCS Emergency Watershed Protection Program (EWP) option is a possibility but that action was needed within 60 days of the event. This funding does require a local governmental entity to be the sponsor, so that would have to be the city or some sort of county or watershed district. HDR recommended contacting Jay at Eastern Dakota Water District to explore any possibilities. It is technically out of the Eastern Dakota district boundaries.
6. A breach analysis should be conducted to determine the extent of the impacts i.e. house(s) on Noid Rd and future residential zoning. Action on this item will not occur until there is notice to proceed from the City.
7. A higher hazard rating could negatively impact potential funding from NRCS.
8. In general, the dam Owner (Chuck Molstad) stated that he would like to discuss the options further with the City. Chuck indicated that the erosion resulted from the City's infrastructure (storm sewer outfall pipe and sanitary sewer main) located in the area. Chuck indicated that the City is responsible for all the repairs to bring the dam back to existing conditions prior to the rain events that overtopped the emergency spillway of the dam. Chuck noted the City does not have temporary or permanent utility easements for the sanitary sewer main across his property downstream of the dam.
9. The Owner noted that the outlet structure has always leaked and the dam normally operated at 2-3 feet below the outlet weir pipe.

End of minutes.

Myron Adam, PE/LS

JSA Engineers/Land Surveyors

367-1036 office

359-2796 cell

Schaal, Tim

From: Schaal, Tim
Sent: Thursday, May 28, 2015 2:16 PM
To: 'Brad Goodroad'
Cc: Brad Goodroad
Subject: RE: Canton Dam
Attachments: Christmas Lake minutes.pdf

Brad thank you for calling me yesterday. As we discussed, the secondary spillway should be repaired soon before any high runoff events make the erosion worse. I have not seen any of the plans or information on the proposed repair associated with the grant application; however, we would be happy to see the secondary spillway repaired to its original condition, which was a good grass lined channel. Also, according to the original NRCS design sheets in the Water Right info, there was maybe a training dike to keep flows away from the embankment toe. The thing to remember about this is there should also be a good maintenance plan to repair any erosion damage that may occur after runoff events. The primary spillway structure should also be monitored, especially after runoff events.

Please keep in mind that repairing the dam back to original condition is contingent upon the current hazard classification for the dam remaining as a Category 2, Significant Hazard Dam. That classification means there could be some downstream economic loss or damage from a dam failure, but no loss of life would be expected. I have included some minutes from last summer where this, and the fact that the hazard category can change, was discussed with the previous owner and the City.

Thanks again and please let me know if you have any questions or when any repair work is completed.

Tim Schaal
SD DENR, Water Rights Program
(605) 773-3352

From: Brad Goodroad [<mailto:bkgoodroad@sio.midco.net>]
Sent: Tuesday, May 26, 2015 10:21 PM
To: Schaal, Tim
Cc: Brad Goodroad
Subject: RE: Canton Dam

Yes Tim the rains have been good with no problems. The lake is at the normal pool and no further erosion.

I did get the permit form sent in for transfer of ownership.

I don't have much faith in the grant coming through so I just met with the Canton mayor today to get his take on some options before I meet again with the city manager Sean Peterson.

What I would like to do is have you explain in writing exactly what needs to be done at a minimum to have the dam emergency spillway back in good standing. As we talked last time, I believe that would include filling the erosion back in and seeding with grass. I would then get my own quote on that repair and bring a proposal for repair to the city.

The mayor sounded confident that we could come to an agreement on this.

I will try to give you a call tomorrow to discuss.

Thanks
Brad

Sent from my Verizon Wireless 4G LTE Smartphone

----- Original message -----

From: "Schaal, Tim"

Date: 05/26/2015 3:52 PM (GMT-06:00)

To: "sio.midco.net, bkgoodroad"

Subject: RE: Canton Dam

Brad—just checking in with you, I have heard that the Canton area had a couple of good rains. Any news or progress on the repair of your dam ??

Tim Schaal

SD DENR

From: Schaal, Tim

Sent: Friday, April 17, 2015 11:19 AM

To: 'bkgoodroad@sio.midco.net'

Subject: FW: Canton Dam

Brad thanks for calling back, we can wait till you get back to SD to visit about this. Here is some general info on dams and dam ownership from our web site. Also I have attached a copy of the Water Right for the storage of water in the dam, this should be transferred over to you (form attached also).

<http://denr.sd.gov/des/wr/app/E0495LDV2-Transferofownership.pdf>

<http://denr.sd.gov/des/wr/sod.aspx> , <http://livingneardams.org/>

Please let me know if you have any questions and your plans to repair the dam.

Tim Schaal

SD DENR

773-3352

From: Sean Pederson [<mailto:Sean.Pederson@cantonsd.org>]
Sent: Tuesday, April 14, 2015 3:18 PM
To: Schaal, Tim
Cc: Myron Adam
Subject: Canton Dam

Tim,

Myron Adam let me know that you had requested a bit of information regarding the Christmas Lake dam here in Canton.

As you are aware, the dam has changed ownership . The new owner of the dam/area is Brad Goodroad.

Contact information is:

email – bkgoodroad@sio.midco.net

cell – 605.321.3819

address – 1409 Holiday Dr., Canton, SD 57013

Please let me know if you have any questions.

Thanks.

Sean D. Pederson

City Manager

Canton, SD

Tel: 605.987.2881

www.cantonsd.org

Follow Us:

Mail to: PMB 2020
DENR - Water Rights Program
523 E Capitol Ave
Pierre, SD 57501-3182

Water Right/Permit No. 4089-3Date: 5-10-2015

I/We request that Water Right/Permit No. 4089-3 formerly owned by:
Bringham Development, Inc. be transferred to:

New Owner Name: Christmas Lake Sunrise Development, LLC
Address: 1409 Holiday Dr.
City, State, Zip Canton SD 57013 Telephone No. 605-321-3819

Title to the following described land(s)/property has been transferred as described above:

TRACT THREE (3) OF INDUSTRIAL PARK ADDITION TO THE CITY OF CANTON, LINCOLN
COUNTY, SOUTH DAKOTA

☒ I understand that the validity of Water Right/Permit No. 4089-3 has not been determined by this transfer action. If I have any questions on validity, I understand that only the Water Management Board has the authority to determine if a water right/permit is valid (see note below.)

You are requested to file this "Notice of Transfer" in the appropriate file with the Water Rights Program, as evidence of the change of ownership.

A fee of Fifty Dollars (\$50.00) is included to cover the filing fee as required by SDCL 46-2-13.

I, Christmas Lake Sunrise Dev - Brad Goodroad, the new owner, certify that the above information is true and correct.


(signed by new owner)

NOTE: Water permits may be cancelled for nonconstruction after the five year construction period has expired. Once a water permit is developed and the water used, the permit becomes a right. A water right may be lost for three reasons:

1. Abandonment - no intent to use water and use is abandoned.
2. Forfeiture - no use of water for three year period without legal excuse.
3. For a third violation of a condition of a water permit/right.

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 5/13, 20 15

RECEIVED OF Christmas Lake Sunrise Dev. LLC 1409 Holiday Dr Canton SD 57013

The following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form <u>4089-3</u>		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____	50	00
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	50 00

No. 07590

By *James L. Anderson*
Chief Engineer



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

May 14, 2015

4089-3

Brad Goodroad
Christmas Lake Sunrise Development LLC
1409 Holiday Dr
Canton SD 57013

Dear Mr. Goodroad:

I am writing to acknowledge receipt of the transfer form and filing fee you submitted for changing ownership on Water Right No. 4089-3.

The ownership change has been completed. Water Right No. 4089-3 is now listed in the name of Christmas Lake Sunrise Development LLC.

Enclosed for your records is Receipt No. 07398 in the amount of \$50 which you paid for filing the ownership change. If you have any questions, please contact me.

Sincerely,

Genny McMath
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosure

Goodroad, Brad

4089-3

From: Brad Goodroad <bkgoodroad@sio.midco.net>
Sent: Thursday, May 28, 2015 7:15 PM
To: Goodroad, Brad
Subject: Fwd: RE: Canton Dam
Attachments: Christmas Lake minutes.pdf

Sent from my Verizon Wireless HTC E9 smartphone

----- Original message -----

From: "Schaal, Tim"
Date: 05/28/2015 2:15 PM (GMT-06:00)
To: "sio.midco.net, bkgoodroad"
Cc: Brad Goodroad
Subject: RE: Canton Dam

Brad thank you for calling me yesterday. As we discussed, the secondary spillway should be repaired soon before any high runoff events make the erosion worse. I have not seen any of the plans or information on the proposed repair associated with the grant application; however, we would be happy to see the secondary spillway repaired to its original condition, which was a good grass lined channel. Also, according to the original NRCS design sheets in the Water Right info, there was maybe a training dike to keep flows away from the embankment toe. The thing to remember about this is there should also be a good maintenance plan to repair any erosion damage that may occur after runoff events. The primary spillway structure should also be monitored, especially after runoff events.

Please keep in mind that repairing the dam back to original condition is contingent upon the current hazard classification for the dam remaining as a Category 2, Significant Hazard Dam. That classification means there could be some downstream economic loss or damage from a dam failure, but no loss of life would be expected.

I have included some minutes from last summer where this, and the fact that the hazard category can change, was discussed with the previous owner and the City.

Goodroad

Dam Repair Proposal from Christmas Lake Sunrise Development, LLC to City of Canton

Construction cost to repair dam to original condition prior to original sanitary sewer and storm sewer lines installed in 1997. Approval required by City Council to use City funds for repairs.

Tree removal for storm sewer installation (THA)	\$4,000
Storm sewer installation and bury – 300' (THA)	\$24,900
Remove Rip-Rap (Boyer)	\$1,000
Remove Concrete Pile (Boyer)	\$500
Dirt hauled to site (Boyer)	\$43,000
Remove saturated soil, compacted and graded new soil (Boyer)	\$10,000
Hydro-Seed (THA) (need 2 nd quote and might be less)	<u>\$6,700</u>
Total Estimates	\$90,100

Easement Storm Sewer (235 ft. X30 ft.= 7,050 sq. ft.).....	Signed by Christmas Lake Dev
Easement Sanitary Sewer (23,083 sq. ft.).....	Signed by Christmas Lake Dev
Future minor repairs (dirt work, re-seeding).....	City of Canton maintain minor repairs and reseedling to protect infrastructure
Breach Study to determine breach flood plain.....	Conducted by City of Canton if housing downstream develops
No building permits approved in flood plain of breach study.....	To avoid reclassification of dam by NENR water rights

History/Justification

Sanitary Sewer was installed through the emergency spillway of the Christmas Lake Dam in mid/late 1990's. No easement was signed or filed at that time. The storm sewer pipe was also installed about the same time and dumps water from the development every time it rains directly onto the emergency spillway and in line with the dirt disturbed by the sewer line installation. Following discussions with Tim Schaal at the DENR water rights department in Pierre, multiple dirt work professionals, and personal observations it is evident the erosion that began in the early 2000's was caused by the disruption of the

dirt caused by the sewer line installation and the continuous dumping of rain water from the storm sewer.

The erosion was minor at first and following each large rain event worsened. There was a large amount of erosion present in early 2014 prior to the flood in June. The City had dumped concrete waste on the spillway erosion attempting to protect it. Following the flood in June, the spillway suffered more large scale erosion. The City of Canton repaired the sanitary sewer line and placed rip rap down in the damaged part of the spillway.

The storm sewer that dumps on the spillway is an issue that can be resolved. Through discussions with people who build and work on dams, dirt movers, etc. they advised something had to be done with the storm sewer water or this would continue to be a problem following the repairs. It is recommended and quoted to extend the storm sewer from the current opening on the Christmas Lake Sunrise Development, LLC property approximately 300 ft. in an enclosed and buried concrete pipe to the south east. It would angle away from the main spillway. The storm sewer would then dump water out below the spillway and would not cause future damage to the spillway.

The City of Canton sponsored a grant through the NRCS Office. Joy Cordier Jensen helped with a lot of this writing. The grant was for \$304,000 to repair spillway, place rip-rap in entire emergency spillway, and replace the primary outlet. In which the City of Canton would be responsible for 25% of this or approximately \$75,000. Information provided by Joy, indicated the grant money for 2014 and 2015 has been awarded. The entire EWP grant program funds only \$2.5 million annually for projects like this for the whole country and most of what gets awarded is for dams that have homes threatened below them. The grant application stays in the system so it is never really denied, it sits with all other applications and is reviewed annually to determine what projects get funded.

The DENR is requiring the dam emergency spillway be repaired to its original slope and shape with grass vegetation to protect the dirt work. With the DENR pushing to get the dam repaired, I felt it was time to begin collaboration with the City of Canton to get the work completed. Tim Schaal with the DENR says to get the dam back into good standing we must repair the spillway to the original slope, plant grass vegetation, and reroute the storm sewer water off the spillway. He also advised not placing rip rap through the entire spillway as this will cause more erosion around the outside of the rock. He advised a grass spillway is the best with this type of dam.

Quotes have been obtain to remove rip rap, repair the dam, extend the storm sewer, remove trees in the path of the storm sewer, remove concrete waste pile, and hydro seed the area affected. Total cost for this is \$90,100. It is recommended to complete this work now to save the dam, infrastructure, and lake. Then if by some very slim chance grant money is awarded in the future it could be used to complete the other improvements listed in the grant.

There are 17 homes that have property adjacent to the Christmas Lake property. Preservation of this lake is paramount. These homeowners have purchased homes and lots because the lake is there. The home values reflect living on a lake and pay taxes based on those values. They utilize the water for recreation, fishing, and enjoyment of all the wildlife and sights that come with a small lake.

Brad Goodroad and Kristin Goodroad

Christmas Lake Sunrise Development, LLC

Boyer Sand & Rock, Inc.

4700 N. Hwy. 244

Lawrenceville, GA 30043

7/15/2015

PI 712-652-2311
F 712-652-2311

Christmas Locke Sunrise LLC

City of Canton

Dirt hauled to site.....43,000.00

Compacted & Leveled.....10,000.00

Remove RipRap.....1,000.00

Remove Concrete500.00

Total.....54,500.00

R & S Ventures, Inc d/b/a
 STAHR Excavation, Inc
 47519 288th Street
 Beresford, SD 57004

Estimate

Date	Estimate #
7/15/2015	66

Christmas Lake
 Sunrise Development, LLC
 1409 Holiday Drive
 Canton, SD 57013

Description	Qty	Rate	Total
Remove concrete pile (includes trucking and landfill fees)		5,200.00	5,200.00T
Remove rip rap (includes trucking and landfill fees)		13,500.00	13,500.00T
Remove small trees in the path of the storm sewer (includes trucking and landfill fees)		4,000.00	4,000.00T
Remove saturated soil (includes trucking and landfill fees)		4,600.00	4,600.00T
Install storm sewer (includes machine time, materials and labor)		24,900.00	24,900.00T
Haul in clean clay dirt and pack up to original grade (includes trucking and cost of soil)		211,000.00	211,000.00T
Hydro seed over area impacted		6,700.00	6,700.00T
Subtotal			\$269,900.00
Sales Tax (2.041%)			\$5,508.66
Total			\$275,408.66

Phone# 605-310-4800

CUSTOMER'S ORDER NO.	DEPARTMENT	DATE
	bid/estimate	July 13/2015
NAME Brad Goodroad		
ADDRESS 1409 Holiday Drive		
CITY, STATE, ZIP Canton, S.D. 57013		
SOLD BY	CASH	C.O.D.
CHARGE	ON ACCT.	MDSE. RETD.
PAID OUT		

QUANTITY	DESCRIPTION	PRICE	AMOUNT
1	300 ft. Storm sewer installation		\$47,500.00
2			
3	includes: equipment, labor		
4	30' concrete culverts, concrete + forms		
5	backfilling		
6			
7			
8			
9	Persing Backhoe Service		
10	29702 487 th Ave.		
11	Hudson, S.D. 57034		
12			
13			
14			
15			
16			
17			
18			

RECEIVED BY *Persing Backhoe by Sue Persing*

A-8905
T-16320/45350

KEEP THIS SLIP FOR REFERENCE

01-11

Schaal, Tim

From: Schaal, Tim
Sent: Friday, November 06, 2015 2:08 PM
To: 'Brad Goodroad'
Subject: RE: Canton Dam

OK thanks Brad—I hope you have good luck getting the project completed.

Tim

From: Brad Goodroad [<mailto:bradgoodroad@gmail.com>]
Sent: Friday, November 06, 2015 1:47 PM
To: Schaal, Tim
Subject: Re: Canton Dam

Tim

Attached are the proposal documents that I have been working on for the City of Canton. The proposal document has all the estimates I gathered myself. The summary on the first page is taking the lowest estimates of each contractor's bid and putting together the lowest possible cost by using the various contractors. The GIS photo originals are good at showing the damage at the various years, but they did not scan very well so will be hard for you to see in these.

Thanks
Brad.

On Tue, Nov 3, 2015 at 8:54 AM, Brad Goodroad <bradgoodroad@gmail.com> wrote:

Will do. It might be a couple days but will send it this week.

On Nov 3, 2015 8:39 AM, "Schaal, Tim" <Tim.Schaal@state.sd.us> wrote:

Yes thanks Brad—please send me a copy of your proposal when you have time.

Tim

From: Brad Goodroad [<mailto:bradgoodroad@gmail.com>]
Sent: Tuesday, November 03, 2015 8:37 AM
To: Schaal, Tim
Subject: RE: Canton Dam

Very good. As we work through this the City should be contacting you to ensure the repairs meet your expectations. They do have a copy of the email you sent explaining what is acceptable for repairs.

I can scan and email you a copy of my proposal with the estimates, etc if you would like.

Thanks

Brad

On Nov 3, 2015 8:22 AM, "Schaal, Tim" <Tim.Schaal@state.sd.us> wrote:

OK thanks Brad—I have been wondering about the progress on this project. Please continue to keep me informed, and be sure to monitor the dam next spring.

Tim Schaal

SD DENR

605-773-3353

From: Brad Goodroad [mailto:bradgoodroad@gmail.com]
Sent: Monday, November 02, 2015 8:47 PM
To: Schaal, Tim
Cc: Chuck Smith; Kyle Cwach
Subject: Canton Dam

Tim

I would like to provide you with an update on our progress. I had given a proposal to the Canton City Manager Sean Peterson in July with hopes of reaching an agreement and getting the repairs completed this fall. He was working on a recommendation to the City Commission to handle repairs of the dam. He did not get to the point of commission approval before he resigned with the City of Canton for another job opportunity in MO.

I am now working with the Interim City Manager Kyle Cwach and the Canton Mayor Chuck Smith. We are working together to find a solution and I believe have an improved probability of success. With slow progress from the previous City Manager, we are not able to get the work done this fall. But, I am optimistic this will come together in 2016.

Thanks for your patience and please call or email with questions.

Brad Goodroad

605-321-3819

Schaal, Tim

From: Schaal, Tim
Sent: Friday, April 01, 2016 9:38 AM
To: 'Amanda Mack'; Myron Adam; jay.cobb@sd.usda.gov; joy.cordierjensen@sd.usda.gov; Delron Peters (DelRon.Peters@hdrinc.com)
Cc: Bill Thorson
Subject: RE: Meeting Minutes - Christmas Lake Dam repair, Canton, SD

Thanks Myron—The only thing I would like to add is in #6—If the dam were to breach in the future or the downstream hazard rating changes, then the dam would need

From: Amanda Mack [<mailto:Amanda.Mack@cantonsd.org>]
Sent: Friday, April 01, 2016 9:34 AM
To: Myron Adam; jay.cobb@sd.usda.gov; joy.cordierjensen@sd.usda.gov; Delron Peters (DelRon.Peters@hdrinc.com); Schaal, Tim
Cc: Bill Thorson
Subject: RE: Meeting Minutes - Christmas Lake Dam repair, Canton, SD

Thank you for the update.

From: Myron Adam [<mailto:Myron@jsaengineers.biz>]
Sent: Friday, April 01, 2016 9:14 AM
To: jay.cobb@sd.usda.gov; joy.cordierjensen@sd.usda.gov; Delron Peters (DelRon.Peters@hdrinc.com); Myron Adam; Amanda Mack; tim.schaal@state.sd.us
Cc: Bill Thorson
Subject: Meeting Minutes - Christmas Lake Dam repair, Canton, SD

A conference call regarding the Subject project was held on Thursday, March 31, 2016 from 1:00 to 2:00 pm. The following were in attendance: Jay Cobb and Joy Cordier-Jensen with NRCS, Tim Schaal with SD DENR, DelRon Peters with HDR and Myron Adam with JSA.

The purpose of the call was to discuss the required repairs to the Christmas Lake Dam emergency and principal spillways. The following items were generally discussed:

1. Two estimates to repair the dam ranged from approximately \$300,000 to \$900,000. The main difference between the estimates was the inclusion of about \$500,000 of erosion control measures (articulated concrete blocks) in the larger estimate. The City can likely cover a portion of a \$300,000 project but would have serious concerns of a \$900,000 project.
2. Jay indicated the possibility of utilizing NRCS funds to repair the dam to pre-existing conditions, in line with the \$300,000 project.
3. There appears to be a discrepancy in the inflow hydrographs to the dam. Flows range between 300 and 1400 cfs approximately. It was not known whether different storm events were assumed which may result in the variation of flows.
4. NRCS will need to enter into an assurance agreement with the City of Canton so the work can be completed with NRCS funds. The construction work can be completed on private property.
5. The City of Canton will need to provide NRCS proof that some entity (likely the property owner) will provide the long-term maintenance of the dam once the dam is repaired. If the owner of the dam is going to maintain the facility, some type of agreement will need to be in place such that the NRCS will be assured that any maintenance needed will be completed.

6. Tim indicated it would likely be acceptable to repair the dam to pre-existing conditions. If the dam were to breach in the future, then the dam would need to be reconstructed to current standards requiring significant upgrades to both the auxiliary and principal spillways.
7. Jay indicated that the City will have 220 days to complete the project once NRCS funding has been provided for the project.
8. Jay indicated there is potential for some additional funding if needed. It may be beneficial to increase the size of the principal spillway with this repair project.
9. The erosion control measures (articulated concrete blocks at approximate construction cost of \$500,000) are not required given the understanding that the entity responsible for maintenance will likely have added maintenance costs after each storm event that overtops the spillway.
10. The City of Canton public bid letting and specifications shall be followed.

End of minutes.

Please respond to the group if I have mis-stated any of the discussion items I outlined above. Thank you.

Myron Adam, PE/LS
JSA Engineers/Land Surveyors
6810 S. Lyncrest Avenue, Suite 101
Sioux Falls SD 57108-2515
605.679.4344 office direct
605.359.2796 mobile

Schaal, Tim

From: Tollefsrud, Tim
Sent: Friday, April 01, 2016 10:06 AM
To: Goodman, Jeanne; Schaal, Tim
Subject: FW: EMBARGOED: USDA Invests \$103 Million in Vital Watershed Projects
Attachments: USDA Invests \$103 Million in Vital Watershed Projects.pdf

From: Pirner, Steve
Sent: Friday, April 01, 2016 10:03 AM
To: DENR SECRETARY'S OFFICE
Subject: FW: EMBARGOED: USDA Invests \$103 Million in Vital Watershed Projects

South Dakota	\$360,000	The secondary spillway of the Christmas Lake dam in Union County experienced severe erosion during a storm in 2014. The EWP Program will be used to replace the spillway inlet and pipe and repair erosion in the secondary spillway with compacted replacement soil and rock rip rap.
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From: Konenkamp, Matt
Sent: Thursday, March 31, 2016 8:59 AM
To: Pirner, Steve
Subject: FW: EMBARGOED: USDA Invests \$103 Million in Vital Watershed Projects

From: "Jacquez, Alex - OSEC" <Alex.Jacquez@osec.usda.gov>
Date: Thursday, March 31, 2016 8:50 AM
To: "Jacquez, Alex - OSEC" <Alex.Jacquez@osec.usda.gov>
Cc: "Sarah.Scanlon@osec.usda.gov" <Sarah.Scanlon@osec.usda.gov>
Subject: EMBARGOED: USDA Invests \$103 Million in Vital Watershed Projects

Good morning—

This **EMBARGOED** press release will be released at **11:00 AM EST**. Please hold close until then. Agriculture Secretary Tom Vilsack will announce today that the U.S. Department of Agriculture (USDA) is investing up to \$103 million in post-disaster recovery and the rehabilitation of aging dams in 19 States.

Please feel free to contact me or Sarah if you have any questions.

Alex Jacquez | Legislative Analyst
Office of External & Intergovernmental Affairs
U.S. Department of Agriculture
o: 202.720.6643 | c: 202.436.6592

EMBARGOED UNTIL MARCH 31, 2015 at 11:00 AM EST

USDA Invests \$103 Million in Vital Watershed Projects

Programs to Protect Public Safety, Improve Critical Infrastructure in 18 States

WASHINGTON, March. 31 2016 – Agriculture Secretary Tom Vilsack today announced that the U.S. Department of Agriculture (USDA) is investing up to \$103 million in post-disaster recovery and the rehabilitation of aging dams in 19 States.

“The Emergency Watershed Protection program is vital to communities repairing damage and making improvements to reduce future damage from natural disasters,” Vilsack said. “Since 2009, USDA has invested more than \$647 million to help local governments restore watersheds and protect communities from the aftermath of devastating natural disasters like Hurricanes Irene and Sandy and fires and flooding in the Southwestern United States.”

Funding through USDA’s Natural Resources Conservation Service (NRCS), was announced by Assistant Chief Kirk Hanlin at an event in Mother Neff State Park outside Temple, Texas. In 2015, excessive rains overwhelmed the drainage systems of many communities and threatened, damaged or destroyed culverts, bridges and roads. NRCS will invest more than \$21 million to help Texas communities remove debris and stabilize streambanks to better protect drainage canals, utilities and roads from future damage.

Overall, NRCS will invest \$93 million in Emergency Watershed Protection (EWP) Program financial assistance to help state and local governments carry out much needed recovery projects to address damage caused by floods, hurricanes, wildfires and other natural disasters. Approximately \$59 million will be used in recovery projects in some of the hardest hit areas in Texas, Mississippi and Utah. About \$34 million will assist projects in Alabama, Alaska, Arkansas, Colorado, Florida, Indiana, Kansas, Kentucky, Minnesota, Mississippi, Ohio, South Carolina, South Dakota, Tennessee, Washington, and Wyoming. A complete list of projects is available on the EWP website.

Today’s announcement also includes \$10.4 million in Watershed Rehabilitation Program funding to help communities rehabilitate aging dams that protect lives, property and infrastructure like drinking water in rural communities downstream. Of this, \$4.8 million will be used in Texas to complete the design and construction of four watershed rehabilitation projects in Ellis and Williamson counties, and \$3.7 will be used in Utah for the construction of a dam project in Gillespie County. About \$500,000 will be used to assess up to 25 aging dams nationwide this year.

USDA watershed projects provide an estimated \$2.2 billion in benefits annually to local communities nationwide. Since 1948, USDA has helped local governments construct nearly 12,000 dams in 47 states and Puerto Rico to help prevent flooding and erosion damage, provide recreation opportunities, improve water supplies for drinking and irrigation, and create habitat for wildlife.

Since 2009, USDA has invested more than \$29 billion to help producers make conservation improvements, working with as many as 500,000 farmers, ranchers and landowners to protect more than 400 million acres nationwide, boosting soil and air quality, cleaning and conserving water and enhancing wildlife habitat. For an interactive look at USDA’s work in conservation and forestry over the course of this Administration, visit <https://medium.com/usda-results>.