

WATER PERMIT NO. 6097-3

Name of Applicant: Robert Beumer

Address: RR 1 Box 27, Browns Valley MN 56219

Phone: 605 694-2668

Amount of Water Claimed: 33 acre-feet

Total Acres: NA

Source of Water Supply: runoff

Water to be used for: fish and wildlife propagation

County: Roberts

Type of Waste Disposal System: NA

Location: 15 miles southeast of Sisseton

PRIORITY

Date Received: 8-20-1998

Fee: \$150.00

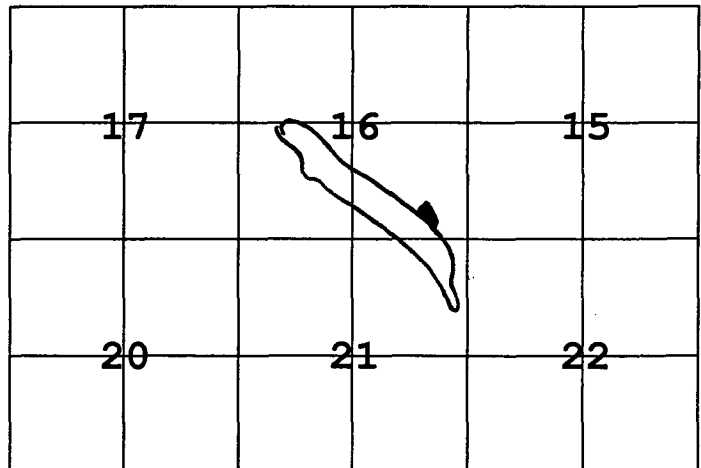
Corrected Application Received:

Period of Annual Use: January 1 – December 31

Remarks:

Diversion Point: SE ¼ SE ¼ Sec 16-T124N-R49W

Water Impounded: N ½ SW ¼, SE ¼ SW ¼, W ½
SE ¼, SE ¼ SE ¼ Sec 16; N ½ NE ¼, SE ¼ NE ¼
Sec 21; all in T124N-R49W



Depth of Well: NA

Well Driller:

Remarks:

Type of Map: topo

Prepared by: Doug Lipetzky, P.E.

Reviewed and the Number Assigned on: 8-24-1998

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

**SOUTH DAKOTA
WATER PERMIT NO. 6097-3**

Date of first receipt of application August 20, 1998.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6097-3 to Robert Beumer, RR 1 Box 27, Browns Valley MN 56219 authorizing the construction of a water control structure and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 6097-3 authorizes impoundment of 33 acre-feet of water from runoff by installation of a water control structure to restore a wetland. The structure will be located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 16 with water impounded in the N $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 16; N $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 21; all in T124N-R49W. This permit authorizes impoundment of sufficient water to maintain water at the outlet elevation of 1087.0 feet mean sea level.
2. The water appropriated shall be used for the purpose of providing habitat for fish and wildlife propagation purposes and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 6097-3 is January 8, 1999.
5. The date from which applicant may claim right is August 20, 1998.
6. One-fifth of the construction is to be completed on or before July 8, 2001.
7. All construction is to be completed on or before January 8, 2004.
8. Water is to be put to beneficial use on or before January 8, 2008.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. Water Permit No. 6097-3 authorizes storage of 33 acre-feet of water behind a water control structure and sufficient water annually to maintain the water level to the outlet elevation of 1087.0 feet mean sea level.
2. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.

WATER MANAGEMENT BOARD

By: John Hatch
John Hatch, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

FEB 22 1999
date



No. 6097-3 Hydrologic Unit 07020001
 Map No. _____ Basin _____
 Newspaper Sisseton Courier, Sisseton, SD

Application For Permit To Appropriate Water Within The State Of South Dakota

Check use of water: Industrial ☐ Commercial ☐ Municipal ☐ Other Common Distribution System ☐
 Rural Water System ☐ Suburban Housing ☐ Geothermal Heat ☐ Institutional ☐ Recreational ☐
 Domestic ☐ (above 18gpm) Other ☒

Type of Application: Check one or more of the following

New ☒ Vested Right ☐ Future Use ☐ Change Use ☐☐ Amend Permit No. _____ with old priority date retainedChange diversion point(s) ☐ Add diversion point(s) ☐ Other ☐ _____☐ Application to: Change diversion point(s) ☐ Add diversion point(s) ☐ on Permit No. _____☐ Construction to use water reserved by Future Use Permit No. _____1. Name of Applicant ROBERT BEUMER Phone No. 605-694-2668Post Office Address RR 1 Box 27, Browns Valley State Mn Zip Code 56219
(Street, RR or Box)2. Amount of water claimed (c.f.s) 33 acre-feet3. Source of water supply Surface water from local unnamed watershed4. Location of point of diversion Approx. 1000' West & 300' North of the SE corner
of Section 16, T 124N, R 49W (SE 1/4 SE 1/4) water impounded: N 1/2 SW 1/4, SE 1/4 SW 1/4,
W 1/2 SE 1/4, SE 1/4 SE 1/4 sec. 16; N 1/2 NE 1/4, SE 1/4 NE 1/4 sec. 21; T 124N - R 49W County Roberts5. Counties where water will be used Roberts6. Annual period during which water is to be used Jan. 1 - Dec. 31

7. Give a brief description of proposed project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Restore a shallow wetland via installation of a water control structure on an existing drainage ditch. See plans and design report.

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed (see instruction)

STATE OF SOUTH DAKOTA)
 County of Roberts)^{ss}

I, ROBERT BEUMER the applicant, certify that I have read the foregoing application, 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.

Signed Robert BeumerSubscribed and sworn to before me this 22nd day of July 1998

Notary Public (or other qualified officer)

My Commission Expires 6-6-2004

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack Thickness _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth of Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others _____

2. Dugout Information Estimates

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

3. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam please give their name and address

Ducks Unlimited, Inc.
3502 Franklin Ave.
Bismarck, ND 58501

b) Freeboard 3 feet

c) Crest Width 20 feet

Crest Length 30 feet

d) Height 5.5 feet

e) Outlet Dimensions:
Pipe diameter 42" dia. CMP

Spillway width 24" dia. CMP

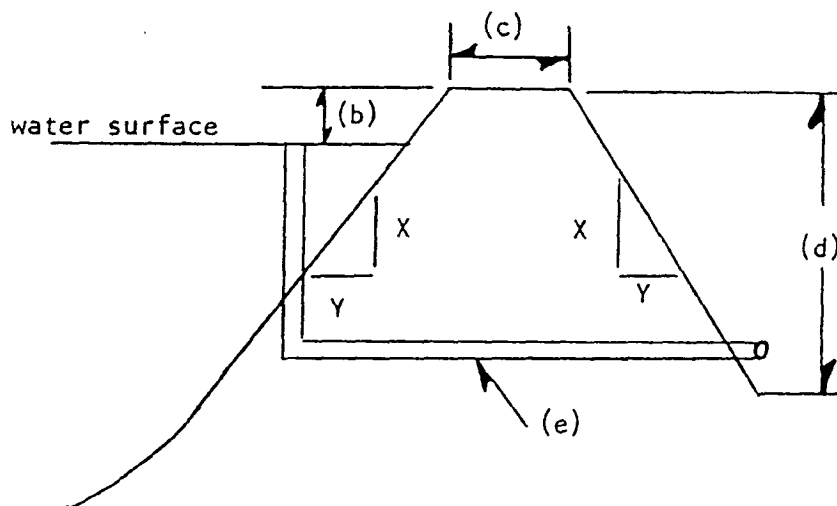
f) X & Y Slope
Upstream 3 H : 1 V

Downstream 3 H : 1 V

Surface Area of Impoundment 48.8

Storage 33 acre feet

Drainage area above dam 1100 ac.



Robert F. Burma
Signature of Applicant



DUCKS UNLIMITED, INC.
GREAT PLAINS REGIONAL OFFICE

3502 Franklin Avenue
Bismarck, North Dakota 58501-0761
(701) 258-5599
(701) 258-8364 Fax

August 16, 1996



Tim Schaal
SD Dept. of Water & Natural Resources
Division of Water Rights
Joe Foss Building
523 East Capitol Avenue
Pierre, SD 57501

RE: Beumer Wetland Restoration Project
SD-0250-001

Dear Tim:

Enclosed is a copy of the plans and my Design Report for the above-referenced project. Kent Duerre of the NRCS office in Sisseton (605-698-7431) has been working directly with the landowners regarding this restoration so you might direct any land use questions to Kent. Please give me a call if you have any hydrologic or hydraulic questions or if you need any additional plans, etc. Thanks, Tim.

Sincerely,

Doug Lipetzky, P.E.
Regional Engineer

Encl.

cc: Kent Duerre



LOCATION NOTICE FOR DAM/DUGOUT

Mail to: Water Rights Div.
DWNR, Foss Bldg.
Pierre, SD 57501
(605) 773-3352

ROBERTS

County

Location Notice No.

I, ROBERT BEUMER, of _____
Name

RR 1 Box 27, Browns Valley, Mn 56219

Address & Zip Code

Roberts

County

Owner

(owner or operator)

, of the following described land, do hereby

notify the Water Management Board of the State of South Dakota and all others concerned that I am exercising my right under SDCL 46-4, for construction of a dam for the purpose of impounding runoff waters for conservation purposes.
(type of use)

(dam or dugout)

The following data is presented in compliance with SDCL 46-4-3 and 46-4-4.

(1) Date of:

(a) This notice _____

(b) Proposed construction July 1998

(2) Legal description of the land upon which the dam/dugout is located:

SE 1/4 of SE 1/4 of Section 16, T 124N, R 49W

(describe to the nearest 40 acre sub-division)

(3) Location of the dam/dugout from a section corner:

Approx. 1000' W and 300' N of SE corner of Sec. 16, T 124N, R 49W

(describe distance N.S.E.W. from the corner)

(4) County Roberts

(5) The owner of the land Robert Beumer

(6) Acre feet of water claimed annually 33 acre-feet

Notes: If the storage of the proposed structure at the spillway crest or overflow elevation exceeds twenty five (25) acre feet, a water permit from the Water Management Board is required.

A location notice is only required on a dugout, if the dugout captures surface runoff waters.

** Continue on other side **

(7) Complete the following information for the proposed dam/dugout:

* Items to be completed for a dugout

*a) Dam/Dugout designed by Ducks Unlimited, Inc.
3502 Franklin Ave.
Bismarck, ND 58501
(name and address)

b) Freeboard 3 feet

c) Crest Width 20 feet

Crest Length 30 feet

d) Height 5.5 feet

* Depth, if Dugout _____

e) Outlet Dimensions:

Pipe diameter 42" dia. CMP

Spillway width 24" dia. CMP

f) X & Y Slope:

Upstream 3 H : 1 V

Downstream 3 H : 1 V

*g) Water surface area 48.8 ac.

*h) Storage at spillway crest or overflow elevation

(acre feet) 33 acre-feet

i) Maximum storage to top of dam

(acre feet) ± 257 acre-feet

*j) Drainage area above dam/dugout

1100 acres

Enclosed herewith is ten dollars (\$10.00). The Water Management Board is requested to file this Location Notice in their official records. A copy of this Location Notice has been filed (do not record) with the Register of Deeds of Roberts County in accordance with SDCL 46-4-3.

Robert Burner
owner

STATE OF SOUTH DAKOTA
COUNTY OF Roberts) ss

I, Robert Burner the applicant, certify that I have read this Location Notice and that the matters stated in this notice are true and that I intend, and am able to start construction within sixty days after the filing of this notice.

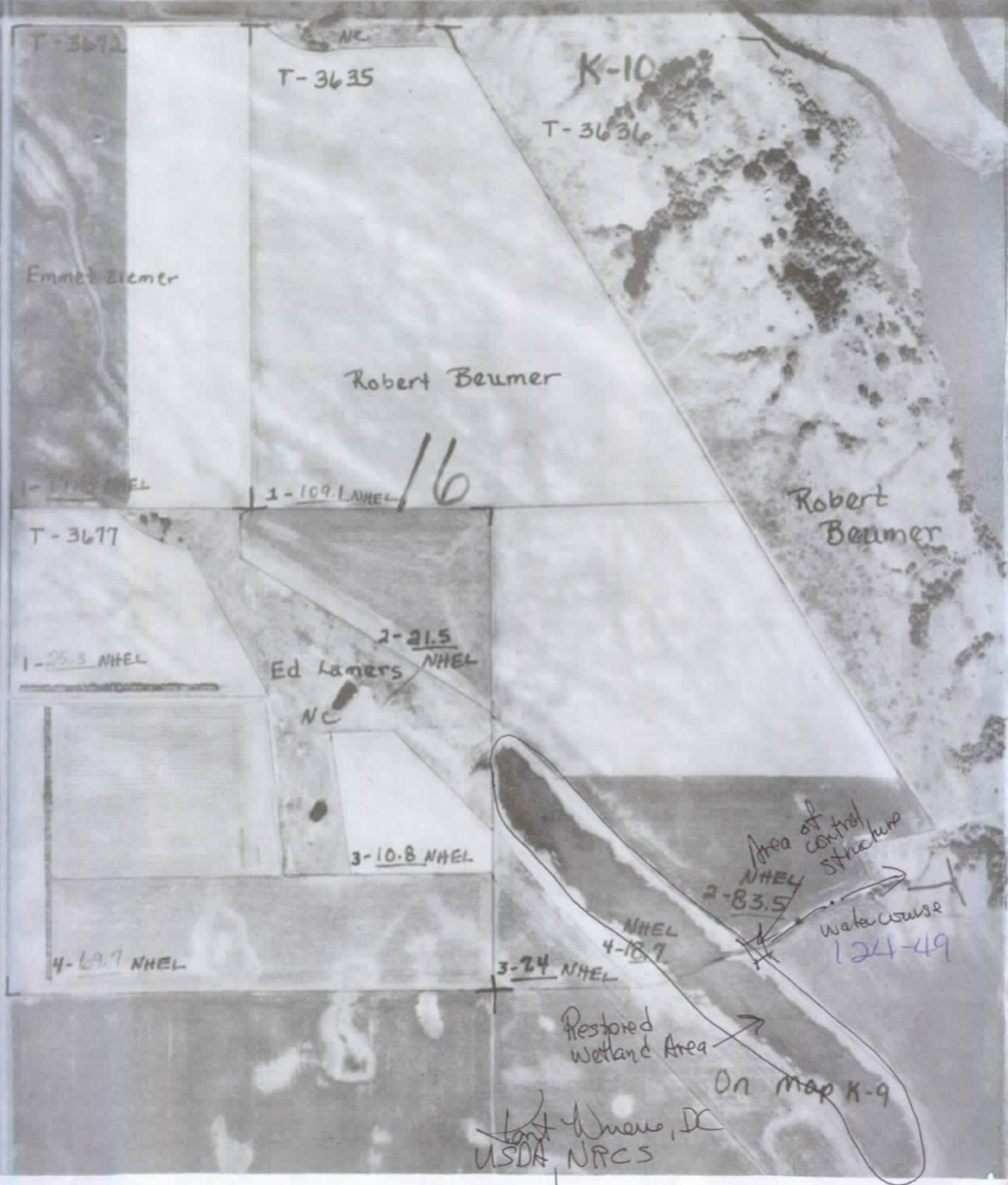
Signed Robert Burner

Subscribed and sworn to before me this 22nd day of July, 1998

(seal)

[Signature]
notary public
By Ernest [Signature] to be 2004

NOT TO SCALE





IN REPLY REFER TO:

United States Department of the Interior

FISH AND WILDLIFE SERVICE

Waubay National Wildlife Refuge

RR 1, Box 39

Waubay, South Dakota 57273-9910

PH: 605-947-4521

FAX: 605-947-4524



November 19, 1998

Tim Shaw
Water Rights Div.
DENR, Foss Bldg.
Pierre, SD 57501

Dear Mr. Shaw:

Enclosed is a signed Wildlife Extension Agreement by Ed Lamers as we discussed last week. This Agreement allows Mr. Lamers land to be temporarily flooded during the fifteen-year period, as Robert Beumer has a fifteen-year option on his Conservation Reserve Program contract.

Please contact Ducks Unlimited or myself of the status of the Robert Beumer Water Rights process so the project may proceed.

Please feel free to contact me should you have any questions regarding this Agreement.

Also enclosed is a Location Notice for the Paul Allison wetland creation project.

Sincerely,

Thomas L. Wickstrom
Biol. Tech.

WILDLIFE EXTENSION AGREEMENT

THIS AGREEMENT DATED November 9, 1998 BETWEEN Ed Lamers, WILDLIFE COOPERATOR(S) AND THE U.S. FISH AND WILDLIFE SERVICE (FWS) IS ENTERED INTO PURSUANT TO AUTHORITY CONTAINED IN SECTION 1 OF THE FISH AND WILDLIFE ACT OF 1956, U.S.C. 42f(a)(4).

Ed Lamers, RR 1, Box 23, Browns Valley, Mn 56219

HEREBY AGREE TO OR PARTICIPATE WITH THE FWS IN CONDUCTING CERTAIN WILDLIFE MANAGEMENT PRACTICES ON LANDS OWNED BY THEM IN Roberts COUNTY, STATE OF S. Dak. described as follows.

SW1/4 of Section 16, T. 124 N., R. 49 W.

THE WILDLIFE COOPERATORS IN SIGNING THIS AGREEMENT JOIN AS PARTICIPANTS IN A WILDLIFE MANAGEMENT PROGRAM AND GRANT TO THE FWS THE AUTHORITY TO COMPLETE WILDLIFE HABITAT DEVELOPMENT, OR TO PERSONALLY CARRY OUT WILDLIFE MANAGEMENT ACTIVITIES WITH FINANCIAL OR MATERIAL SUPPORT, AS DESCRIBED IN THE ATTACHED SPECIAL PROVISIONS (EXHIBIT A). ANY DONATION OF SUPPLIES, EQUIPMENT, OR DIRECT PAYMENT FROM THE FWS TO THE WILDLIFE COOPERATORS FOR CARRYING OUT THE WILDLIFE HABITAT DEVELOPMENTS, ARE ALSO INCLUDED IN THE ATTACHED SPECIAL PROVISIONS (EXHIBIT A).

THE TERMS OF THIS AGREEMENT WILL BE FOR 15 YEARS BEGINNING November 9, 1998, AND ENDING Sept. 30, 2012. PAYMENT AS APPROPRIATE WILL BE MADE AS DESCRIBED AND AGREED TO IN EXHIBIT A.

THIS AGREEMENT MAY BE MODIFIED AT ANY TIME BY MUTUAL WRITTEN CONSENT. IT MAY ALSO BE TERMINATED IN WRITING BY EITHER PARTY THIRTY-(30) DAYS IN ADVANCE. IF TERMINATED BY THE COOPERATOR. COOPERATOR WILL REIMBURSE FWS FOR THE COST OF THE WILDLIFE HABITAT DEVELOPMENTS PLACED ON THE LAND.

AT THE END OF THE TERM, THE WILDLIFE HABITAT DEVELOPMENT WILL BECOME THE PROPERTY OF THE WILDLIFE COOPERATOR.

THE FWS, DOES NOT ASSUME JURISDICTION OVER THE PREMISES BY THIS AGREEMENT. THE WILDLIFE COOPERATOR RETAINS ALL RIGHTS TO CONTROL TRESPASS AND RETAINS ALL RESPONSIBILITY FOR TAXES, ASSESSMENTS, AND DAMAGE CLAIMS.

IF A FWS EASEMENT IS GRANTED, THE EASEMENT WILL SUPERSEDE THE PROVISIONS AND TERMS OF THIS AGREEMENT.

THE FWS, ITS AGENTS, OR ASSIGNEES RESERVE THE RIGHT TO ENTER THE LAND AT REASONABLE TIMES FOR WILDLIFE HABITAT DEVELOPMENT AND MANAGEMENT PURPOSES AND TO INSPECT COMPLETED WORK.

THE SERVICE ASSUMES NO LIABILITY FOR DAMAGE OR INJURY OTHER THAN THAT CAUSED BY ITS OWN NEGLIGENCE, ON THE ABOVE ACREAGE. SPECIFIC WORK COMPLETED WILL BE DOCUMENTED ON EXHIBIT A.

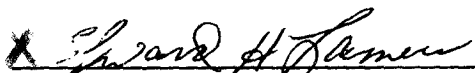
A CHANGE IN OWNERSHIP SHALL NOT CHANGE THE TERMS OF THIS AGREEMENT. THE AGREEMENT AND TERMS SHALL BE IN EFFECT ON THE DESCRIBED LAND FOR THE PERIOD OF THE AGREEMENT. THE WILDLIFE COOPERATOR WILL NOTIFY THE FWS OF PLANNED OR PENDING CHANGES IN OWNERSHIP.

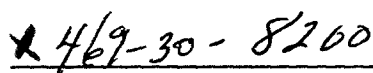
AT THE END OF THIS AGREEMENT, THE COOPERATOR ASSUMES FULL AND COMPLETE RESPONSIBILITY FOR ALL WILDLIFE HABITAT DEVELOPMENTS MADE DURING THIS AGREEMENT ON THE PROJECT TRACT. THERE SHALL BE NO OBLIGATION TO ANY OF THE AGENCIES OF THE AGREEMENT AFTER THE TERM OF THE AGREEMENT HAS EXPIRED.

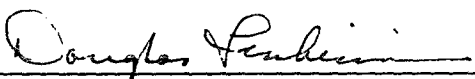
THE LANDOWNER WILL BE RESPONSIBLE FOR SECURING ANY NECESSARY PERMITS. TECHNICAL ADVICE AND SUPPORT WILL BE PROVIDED BY PARTICIPATING AGENCIES IN THE APPLICATION FOR THE PERMIT.

THE FWS IS PROHIBITED BY LAW FROM MAKING OBLIGATIONS THAT EXCEED AVAILABLE FUNDS AND, THEREFORE THE FWS CAN DO ONLY THAT WORK WHICH IS FUNDED. IN THE EVENT FUNDS ARE NOT AVAILABLE TO DO THE WILDLIFE HABITAT DEVELOPMENT WORK WITHIN THE PERIOD OF TIME OR IN THE MANNER PRESCRIBED IN THE SPECIAL PROVISIONS. THE FWS WILL ADVISE THE WILDLIFE COOPERATOR OF THE FACT.

WILDLIFE COOPERATOR GUARANTEES OWNERSHIP OF THE ABOVE DESCRIBED LAND AND WARRANTS THAT THERE ARE NO OUTSTANDING RIGHTS WHICH INTERFERE WITH THE WILDLIFE MANAGEMENT AGREEMENT.


WILDLIFE COOPERATOR


SOCIAL SECURITY NUMBER


FWS REFUGE MANAGER

FWS, ASSISTANT REGIONAL DIRECTOR,
REFUGES AND WILDLIFE

*PRIVACY ACT NOTICE: THE FWS IS REQUIRED TO OBTAIN THIS INFORMATION TO PROCESS ANY PAYMENT(S) TO THE WILDLIFE COOPERATOR AS A RESULT OF THIS AGREEMENT. THIS INFORMATION WILL BE FURNISHED TO THE INTERNAL REVENUE SERVICE AS REQUIRED BY THE TAX REFORM ACT OF 1986 AND MAY BE SHARED WITH THE DEPARTMENT OF JUSTICE FOR CRIMINAL OR CIVIL LITIGATION. FURNISHING A SOCIAL SECURITY NUMBER IS VOLUNTARY, BUT FAILURE TO DO SO MAY RESULT IN DISQUALIFICATION FROM THIS PROGRAM.

EXHIBIT A

SPECIAL PROVISIONS

The wildlife habitat developments described below are agreed to by Ed Lamers and the FWS in a Wildlife Extension Agreement dated November 9, 1998.

Planned work: Mr. Lamers agrees to allow Ducks Unlimited to place a water control structure in wetland drainage ditch on adjacent land to restore wetland(s) (see attached map for location of wetland(s) to be restored). The water control structure when at Full Service Level (FSL), Elevation 1087.0 will cause temporary flooding to Mr. Lamers property. Mr. Lamers agrees to allow the Service, or its designee, to access the property to inspect the condition of the plug(s) during the term of this agreement. At the end of this Agreement, it will be the options of the Cooperators to renew this Agreement.

Itemized costs of payments, materials, supplies, completed work, and schedule of payments. (if applicable, however, any payments will be for only one fiscal year.) This is a one-time Fiscal Year payment only.

Completed work (as modified by mutual agreement)

<u>Wetland #</u>	<u>Wetland Size (Acres)</u>	<u>Wetland Type</u>
1	14.6	IV
Totals= 1	14.6	--

NOT TO SCALE

T-3635

K-10

T-3636

Emmer

Robert Beumer

1-109.1 NHEL

16

T-3677

flooded

Robert Beumer

1- NHEL

Ed

1-21.9 NHEL

3-10.8 NHEL

4-1.1 NHEL

3-24 NHEL

4-18.7

Watercourse
1241-119

Restored
Wetland Area

On map K-9

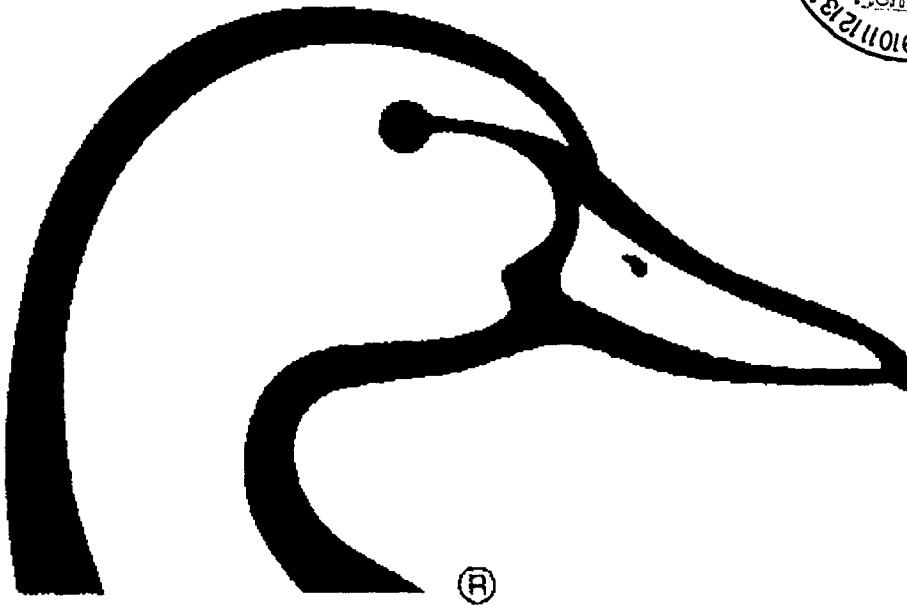
Fort Whinn, DC
USDA, NRCS

DESIGN REPORT

for

ROBERT BEUMER WETLAND RESTORATION

SD-0250-001



January 7, 1998

Prepared by:
Ducks Unlimited, Inc.

PROJECT:

ROBERT BEUMER WETLAND RESTORATION
SD-0250-001

LOCATION:

Sections 16 & 21, T 124 N, R 49 W
8 miles east of Peever near Big Stone Lake
Roberts County, South Dakota

MARSH DATA:

Full Service Level (FSL) @ 1087.0
48.8 Surface Acres @ FSL
32.9 Acre-Feet Capacity @ FSL

Secondary Spillway Elev. @ 1088.0
69.9 Surface Acres @ 1088.0
92.3 Acre-Feet Capacity @ 1088.0

Top of Compacted Embankment @ 1090.0
±92 Surface Acres @ Top of Embankment
±257 Acre-Feet Capacity @ Top of Embankment

PROJECT DESCRIPTION:

The project as proposed involves the replacement of a field approach culvert with a new structure to restore a wetland located on private land owned by Mr. Robert Beumer. The wetland also crosses onto land owned a Mr. Emmet Ziemer. Mr. Ziemer is also supportive of the project. The structure located on Mr. Beumer's land will restore a 48.8-acre shallow wetland. The proposed project is located on an unnamed drainage that discharges directly into Big Stone Lake. The contributing watershed consists of approximately 1,100 acres or 1.72 square miles.

The wetland basin essentially has two outlets. Originally, it appears drainage from the basin was to the southeast as shown on the U.S.G.S. quadrangular maps. However, at some time in the past, it appears a channel to the east was excavated to allow discharging through an existing coulee as well. Currently, the east drainage is the primary spillway (lowest in elevation) with the southeast channel being a secondary overflow area. Plans are to keep the same flow pattern. The southeast channel currently exists. Both drainages terminate in Big Stone Lake.

REMARKS:

located in a rural area of Roberts County. No structures are located immediately downstream of the channel. Upon leaving the primary or secondary channel, flows follow the natural drainage pattern. The east starts to drop significantly in elevation 100 feet downstream from the proposed structure. The channel then enters Big Stone Lake. The structure crosses a gravel road about 3700 feet from the basin, then continues another 1½ miles to the lake.

before discharging into Big Stone Lake.

Based on the definition of a "dam" in Chapter 74:02:08, "Safety of Dams," it appears the project would not be governed by the requirements of Chapter 74:02:08 since the maximum height of the embankment does not exceed 6 feet (actual maximum height is Elevation 1090.0 - 1084.5 = 5½ feet).

Even if the Chapter were applicable, information obtained in the field, data present on the U.S.G.S. quadrangular maps, and the relative small size and capacity of the created marsh indicate the general public would be in no danger in the unlikely event of a dam failure. No loss of life and minimal or no economic loss would be expected.

DESIGN:

As designed and dictated by the lay of the land, the primary spillway will pass flows in excess of those produced by a 5-year, 24-hour rainfall without using the secondary spillway to the southeast. In addition, the primary and secondary spillways will pass flows in excess of those produced by a 100-year, 24-hour rainfall event without overtopping the embankment.

A modified 42" diameter CMP culvert is proposed as the primary spillway. The culvert structure will have removable stoplogs on the upstream end to provide variable control and drawdown capability to elevation 1084.75. The weir crest elevation on the culvert or full service level (FSL) is proposed at elevation 1087.0. As noted, a secondary spillway to the southeast will remain as currently exists to assist in passing high flows.

Regression equations provided in *Techniques for Estimating Flood Peaks, Volumes, and Hydrographs on Small Streams in South Dakota*¹ were used to develop flood peaks for design purposes. The Natural Resource Conservation Service (NRCS) TR-20 Hydrology program was then calibrated by adjusting the time of concentration to produce a peak inflow for the various design events similar to those determined using the regression equations. The calibrated TR-20 model was then used to determine the discharge at various reservoir stages with respect to time. The program uses accepted procedures to develop inflow and outflow hydrographs. The primary spillway capacity was calculated by comparing discharges developed by the weir flow formula and formulas for calculating head loss through corrugated metal pipe. A total discharge curve for the proposed structure is attached.

¹Becker, Lawrence D., U.S. Geological Survey, Water Resources Investigations 80-80, September 1980.

The following is a relationship between peak inflows, corresponding outflows, and reservoir elevations using the previously-mentioned methods of analysis:

<u>EVENT</u>	<u>PEAK INFLOWS</u>	<u>MAX. WATER SURFACE ELEVATION</u>	<u>TOTAL DISCHARGE</u>	<u>PRIMARY DISCHARGE</u>	<u>SECONDARY DISCHARGE*</u>
2 YR	36 CFS	1087.53	19 CFS	19 CFS	0 CFS
5 YR	79 CFS	1087.91	48 CFS	48 CFS	0 CFS
10 YR	131 CFS	1088.24	59 CFS	59 CFS	6 CFS
25 YR	216 CFS	1088.66	69 CFS	60 CFS	9 CFS
50 YR	300 CFS	1089.11	78 CFS	66 CFS	12 CFS
100 YR	399 CFS	1089.44	84 CFS	70 CFS	14 CFS

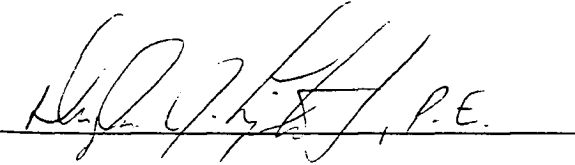
*Assumes all secondary flows pass through the 24" diameter CMP. Although the culvert invert is at elevation 1087.05, the high point in the channel upstream of the culvert is at elevation 1088.0. Therefore, flows do not pass that direction until the water surface exceeds 1088.0.

Primary Spillway (42" CMP) Crest Elevation . . @ 1087.0
 Secondary Spillway Overflow Elevation @ 1088.0
 Top of Compacted Embankment Elevation @ 1090.0

Although the embankment or barrier is not considered a "dam" per the South Dakota rules, the project would easily comply with State dam safety rules passing the 25-year, 24-hour rainfall event without overtopping the embankment as indicated in the previous table. In addition to providing excellent waterfowl and other wildlife habitat, the basin should provide water quality and water storage benefits as well.

Construction plans have been drafted outlining project specifics. A set of standard construction specifications has previously been submitted to the Division of Water Rights.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



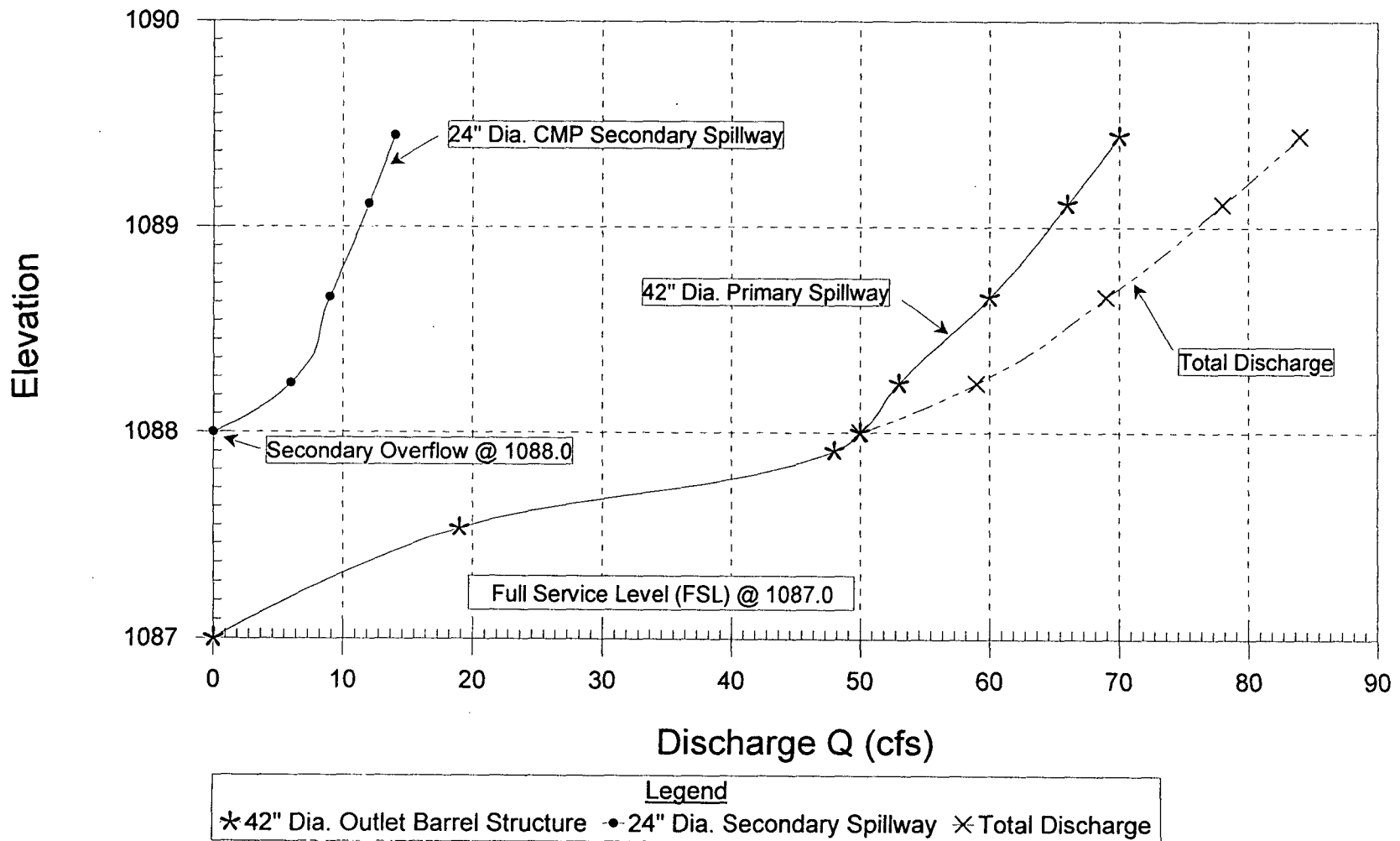
Douglas J. Lipetzky, P.E.
PE-4499

January 7, 1998

Date

BOB BEUMER WETLAND

Discharge Curve



RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

NO 415841

Pierre, August 2019 98

RECEIVED OF Robert or Doris Beumer, RR 1, Box 27, Browns Valley, MN 56219-0711
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>6097-3</u> to Appropriate Water, to construct and to put water to beneficial use _____	150	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 _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	150 00

By

Chief Engineer

John Hatch

Water Permit Application No. 6097-3
Robert Beumer

Top of Dam Elev. - 1090	} Height = 5.5 ft < 6.0 feet
P. Spillway Elev. - 1087	
2nd Spillway Elev. - 1088	
Dis. Toe Elev. - 1084.5	

No PIS Required

Since the dam is less than 6 feet high it is not classified as a dam according to Chapter 74:02:08, if it were it would be a Cal. 3 Low Hazard Dam w/ 25 year Minimum Spillway Design

From USGS WRI 80-80 "Tech. for Est. Flood Peaks ... in SD"

DA = 1100 Ac. = 1.72 mi.²
Slope = 20 ft/mile
SI = 2.99

$$\begin{aligned}
 Q_{25} &= 83.4 A^{.6} S^{.44} S^{.72} \\
 &= 83.4 (1.72)^{.6} (20)^{.44} (2.99)^{.72} \\
 &= 83.4 (1.38) (3.74) (.45) \\
 &= \underline{196 \text{ cfs}}
 \end{aligned}$$

$$\begin{aligned}
 Q_{100} &= 132 A^{.65} S^{.46} S^{.67} \\
 &= 132 (1.72)^{.65} (20)^{.46} (2.99)^{.67} \\
 &= 132 (1.42) (3.96) (.48) \\
 &= \underline{360 \text{ cfs}}
 \end{aligned}$$

Ducks Unlimited uses the NRCS TR-20 to route a Q_{25} peak = 216 cfs through the embankment with 1.34' of freeboard remaining, and a Q_{100} peak = 399 cfs through the embankment with 0.56 feet of freeboard remaining.

NRCS Annual Yield

ISO = 2K
DA = 1100 Ac. = 1.72 mi.²
CN = 76 (Assumed)

$$\begin{aligned}
 80\% \text{ chance} &= 0.2 \\
 0.2 \times 1100/12 &= \underline{18 \text{ Ac.-Ft}}
 \end{aligned}$$

$$\begin{aligned}
 50\% \text{ chance} &= 0.5 \\
 0.5 \times 1100/12 &= \underline{46 \text{ Ac.-Ft}}
 \end{aligned}$$

$$\begin{aligned}
 10\% \text{ chance} &= 2.3 \\
 2.3 \times 1100/12 &= \underline{210 \text{ Ac.-Ft}}
 \end{aligned}$$

REPORT ON
WATER PERMIT APPLICATION No. 6097-3
Robert Beumer
September 4, 1998

Water Permit Application No. 6097-3 has been filed by Robert Beumer to impound 33 acre-feet of water annually from local runoff by constructing a water control structure to restore a wetland. The structure is located in the SE ¼ SE ¼ of Section 16-T124N-R49W, in Roberts County. The water will be used to provide habitat for fish and wildlife production.

Discussion:

The Beumer Wetland has been designed by Ducks Unlimited, Inc. Due to the small size of the embankment (5.5 feet high) design of the structure is not subject to the requirements of the Safety of Dams Rules, Chapter 74:02:08.

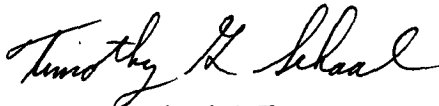
The restored wetland will have a normal storage capacity of 33 acre-feet with a reservoir level at the spillway elevation, and a maximum storage capacity of 257 acre-feet with a reservoir level at the top of the embankment. It will have a 42 inch diameter CMP as the primary spillway with 3 feet of available head and a 24 inch diameter CMP as the secondary spillway with 2 feet of available head. Ducks Unlimited, Inc. used the NRCS TR-20 model to route a 25-year frequency event peak of 216 cfs through the embankment with 1.34 feet of head remaining and a 100-year frequency event peak of 399 cfs through the embankment with 0.56 feet of head remaining.

The restored wetland will have a drainage area of 1100 acres (1.72 square miles). The annual yield for the drainage area with a 80 percent chance of occurrence, or 8 out of 10 years, is expected to be 18 acre-feet. The annual yield with a 50 percent chance of occurrence, or 1 out of 2 years, is expected to be 46 acre-feet, and the annual yield with a 10 percent chance of occurrence, or 1 out of 10 years, is expected to be 210 acre-feet.

The control structure for the Beumer Wetland will be located in the SE ¼ SE ¼ of Section 16-T124N-R49W on an unnamed tributary to Big Stone Lake about one-half mile upstream of Big Stone Lake. There are no existing Water Rights/Permits located on the unnamed tributary between the proposed wetland and Big Stone Lake.

Conclusions:

1. Water Permit Application No. 6097-3 should be approved since unappropriated water is available and approval should not have any adverse effect on existing Water Permits/Rights.
2. If approved, the low flow bypass requirement for downstream domestic use should be a qualification on Water Permit Application No. 6097-3.



Timothy G. Schaal, P.E.
Natural Resources Engineer III

Approved by:



Gale N. Selken, P.E.
Natural Resources Engineer IV

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6097-3, Robert Beumer**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 6097-3, Robert Beumer, RR 1, Box 27, Browns Valley MN 56219.

The Chief Engineer is recommending APPROVAL of Application No. 6097-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. Water Permit No. 6097-3 authorizes storage of 33 acre feet of water behind a water control structure and sufficient water annually to maintain the water level to the outlet elevation of 1087.0 feet mean sea level.
2. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.

See report on application for additional information.


for JOHN HATCH, Chief Engineer
December 8, 1998



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.

December 10, 1998

Robert Beumer
RR 1, Box 27
Browns Valley, MN 56219

Dear Mr. Beumer:

Water Permit Application No. 6097-3 for fish and wild propagation been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Sisseton Courier printed at Sisseton, SD (Ph # (605) 698-7642). For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. The newspaper has been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

c: Doug Lipetzky, Ducks Unlimited, 3502 Franklin Ave., Bismarck, ND 58501-0761.

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

Sisseton Courier
Box 169
Sisseton, SD 57262-0169

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 6097-3 to Appropriate Water to be published twice. Please publish the first notice on December 22, 1998, with the second publication 7 days later.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Robert Beumer, RR 1, Box 27, Browns Valley, MN 56219 (Ph # (605) 694-2668).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 6097-3

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of December 10, 1998, enclosing Notice of Hearing to Appropriate Water by Application No. 6097-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper

Instruction to Newspaper - Publish first Notice on December 22, 1998, with the second publication / days later.
The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6097-3 to Appropriate Water

Notice is given that Robert Beumer, RR 1 Box 27, Browns Valley MN 56219 has filed an application for a water permit to impound 33 acre-feet of water from runoff by installation of a water control structure to restore a wetland. The structure is located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 16 with water impounded in the N $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 16; N $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 21; all in T124N-R49W. This application requests impoundment of sufficient water to maintain water at the outlet elevation of 1087.0 feet mean sea level and is to be used to provide habitat for fish and wildlife propagation purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6097-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the chief engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and chief engineer. The applicant must file a petition if contesting the chief engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by January 8, 1999.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.



PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
 County of Roberts)

I, Sylvia Deutsch

certify that the attached printed Notice was taken
 from the Sisseton Courier

printed and published in Sisseton

County of Roberts and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

12-22-98

12-29-98

Cost of Printing \$43.07

Sylvia Deutsch
 (Signature)

Eric Gronlund
 (Title)

12-28-98

(Date Signed)

PUBLIC NOTICES

NOTICE OF APPLICATION NO. 6097-3 TO APPROPRIATE WATER

Notice is given that Robert Beumer, RR1 Box 27, Browns Valley MN 56219 has filed an application for a water permit to impound 33 acre-feet of water from runoff by installation of a water control structure to restore a wetland. The structure is located in the SE 1/4 SE 1/4 Section 16 with water impounded in the N 1/2 SW1/4, SE 1/4 SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 16; N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 21; all in T124N-R49W. This application requests impoundment of sufficient water to maintain water at the outlet elevation of 1087.0 feet mean seal level and is to be used to provide habitat for fish and wildlife propagation purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6097-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written

petition with BOTH the applicant and chief engineer. The applicant must file a petition if contesting the chief engineers recommendation. The Chief Engineers address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605-773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by January 8, 1999.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal council, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Nettie H. Meyers, Secretary, Department of Environment and Natural Resources.

(Dec. 22-29--2wks)



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

FEB 22 1999

Robert Beumer
RR 1, Box 27
Browns Valley, MN 56219

Dear Mr. Beumer:

Enclosed is Water Permit No. 6097-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Very truly yours,

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

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

January 21, 2005

6097-3

Robert Beumer
46924 128th St
Browns Valley MN 56219

Dear Mr. Beumer:

On October 26, 2004 the investigation of your water use system, including the extent of application of water to beneficial use, as developed under Water Permit No. 6097-3, was completed by Tim Schaal, a staff engineer with our program. Your final water right document, the water license, can now be issued.

State law requires that we charge a \$50.00 fee for the investigation and issuance of the water license. Upon receipt of the \$50.00 fee from you, we will complete processing your water license. The check or money order for the fee should be made payable to the "Water Rights Program".

Your licensed water right will be similar to a property right that can not be lost as long as the water use continues and you abide by the permit requirements.

If you have any questions regarding the water permit, investigation of your water use system or payment of the fee, please contact Tim Schaal or me.

Sincerely,

Karen Schlaak
Water Rights Program
(605) 773-3352
karen.schlaak@state.sd.us



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

April 25, 2005

REMINDER NOTICE

6097-3

Robert Beumer
46924 128th St
Browns Valley MN 56219

Dear Mr. Beumer

On January 21, 2005, we advised you that a \$50.00 fee was due for the completed investigation of your Water Permit No. 6097-3. The fee also covers issuance of your water license which is the final document in obtaining and perfecting a water permit.

To date, we have not received the fee and therefore can not issue the water license. Your licensed water right will be similar to a property right that can not be lost as long as the water use continues and you abide by any permit requirements.

If you have any questions regarding the water permit, investigation of your water use system or payment of the fee, please contact Genny McMath with our program at (605) 773-3352. The check or money order for the fee should be made payable to the "Water Rights Program".

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date May 6, 2005

RECEIVED OF Bob Broun, 46924 128th St, Brown Valley MN 56219-4014

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. <u>6097-3</u>		
Fee for Filing Transfer Form _____		
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. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law) .	TOTAL	50.00

No.

0016 2

By

Darlene Ebel
Chief Engineer
gmm

Permit No. 6097-3
Minnesota-Whetstone 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, **October 26, 2004**, made a thorough examination of the water use system constructed by **Robert Beumer** of **46924 128th Street** holder of Permit No. **6097-3**, bearing the priority of **August 20, 1998** authorizing the storage of **33** acre-feet of the waters of **runoff** for **fish & wildlife propagation** purposes, in **Roberts** County.

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

A. Works used to divert the water:

A 5.5 ft. high ditch plug with a normal storage capacity of 33 acre-feet

B. Works used to transport water to place of use:

N/A

C. Works used to apply water to beneficial use:

A 5.5 ft. high ditch plug with a normal storage capacity of 33 acre-feet

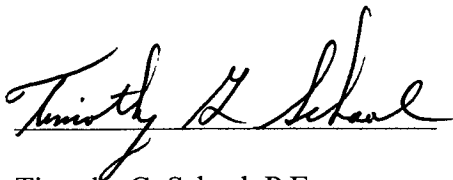
The system is in the following condition **good**. The point of diversion is located **200 ft. north & 1100 feet west of the SE corner of Sec. 16-T124N-R49W (SE ¼ SE ¼) (Lat. 45.54396, Long -96.80426)**. The works are capable of storing **33** acre-feet of water which is to be used for **fish & wildlife propagation**. Water has been put to beneficial use to the maximum extent as follows:

A 5.5 ft. high ditch plug with a normal storage capacity of 33 acre-feet

and the license should be issued for **33** acre-feet of storage.

Applicable permit qualifications have been complied with: Yes **X**

Exceptions to compliance are: **none** Date Report Completed: **January 10, 2005**



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

REPORT ON INSPECTION OF PERMIT NO. 6097-3

DATE OF INSPECTION: October 26, 2004

NAME & ADDRESS OF INSPECTION CONTACT/ Robert Beumer

RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE: owner

NAME & ADDRESS OF PERMIT HOLDER: Robert Beumer, 46924 128th St., Browns Valley, MN 56219

DIVERSION POINT LEGAL LOCATION: 200 ft. north & 1100 ft. west of the SE corner of Sec. 16-T124N-R49W (SE ¼ SE ¼) (Lat. 45.54396, Long. -96.80426).

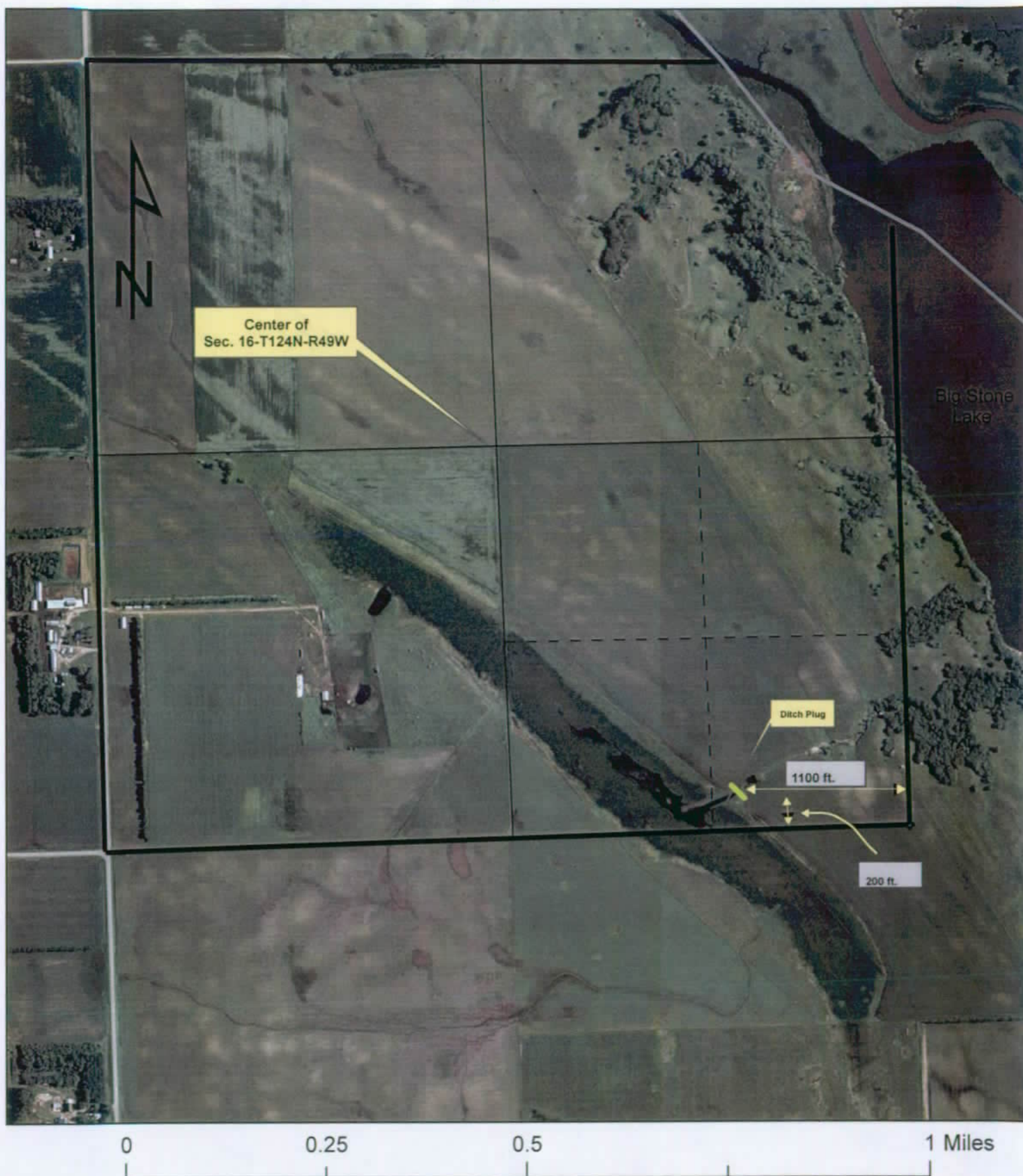
DAM INFORMATION: (Ditch Plug)

- 1) Height to crest 5.5 feet
- 2) Height to primary spillway 2.5 feet
- 3) Height to secondary spillway 3.5 feet
- 4) Crest width 20 feet
- 5) Crest length 30 feet
- 6) Spillway length XXX feet
- 7) Spillway width 20 feet
- 8) Approx. storage (Normal) 33 acre-feet
- 9) Approx. storage (Maximum) 257 acre-feet
- 10) Date constructed: 1998

PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Soil and water permit lands agree with lands being irrigated and lands listed on permit N/A
- 2) Special qualifications to permit being abided by yes
- 3) All structures, wells and lands on map yes
- 4) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period N/A

Water Permit Application No. 6097-3



South Dakota Department of
Environment and Natural Resources



Protecting South Dakota's Tomorrow... Today



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

1/10/05

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6097-3

(1) Robert Beumer, 46924 128th St, Browns Valley MN 56219 made Application No. 6097-3, August 20, 1998 for a water permit to impound 33 acre feet of water from runoff, Roberts County, South Dakota for fish and wildlife propagation purposes. Permit No. 6097-3, with a priority date of August 20, 1998 was approved January 8, 1999 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before January 8, 2004 and for the application to beneficial use of water on or before January 8, 2008.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 6097-3 is issued a license, bearing a priority date of August 20, 1998, to impound 33 acre feet of water for fish and wildlife propagation purposes.

The location of the storage dam (spillway) is 200 feet north and 1,100 feet west of the southeast corner of Section 16-T124N-R49W (SE ¼ SE ¼).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6097-3, including the following now applicable qualifications:

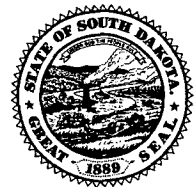
- Water Permit No. 6097-3 authorizes storage of 33 acre-feet of water behind a water control structure and sufficient water annually to maintain the water level to the outlet elevation of 1087.0 feet mean sea level.
- Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.

Garland Erbele

Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JUL 11 2005

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

JUL 11 2005

6097-3

Robert Beumer
46924 128th St
Browns Valley MN 56219

Dear Mr. Beumer:

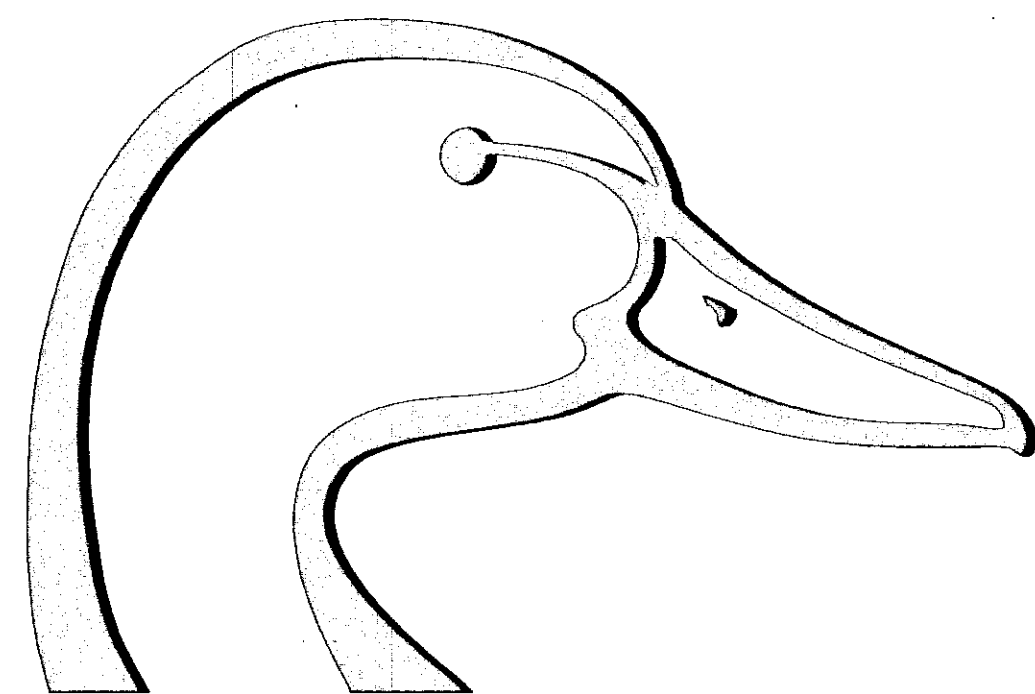
Enclosed is Water License No. 6097-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 001862 in the amount of \$50.00 which you paid for the investigation and issuance of the Water License.

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.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures



DUCKS UNLIMITED

DUCKS UNLIMITED

PROJECT

BOB BEUMER WETLAND

SECTIONS 16 & 21, TOWNSHIP 124 NORTH, RANGE 49 WEST
ROBERTS COUNTY, SOUTH DAKOTA

IN COOPERATION WITH

NATURAL RESOURCES CONSERVATION SERVICE
AND
LANDOWNERS

SPECIFICATIONS

GENERAL CONDITIONS	101
MOBILIZATION	201
SITE PREPARATION	202
EMBANKMENT CONSTRUCTION	204
WATER	205
CULVERT INSTALLATION	207
REINFORCED CONCRETE	208
RIPRAP PLACEMENT	209
STRUCTURAL STEEL	216
REMOVAL & SALVAGE OF EXISTING CULVERTS/STRUCTURES	307
MUSKRAT WIRE PLACEMENT	504

PLAN INDEX

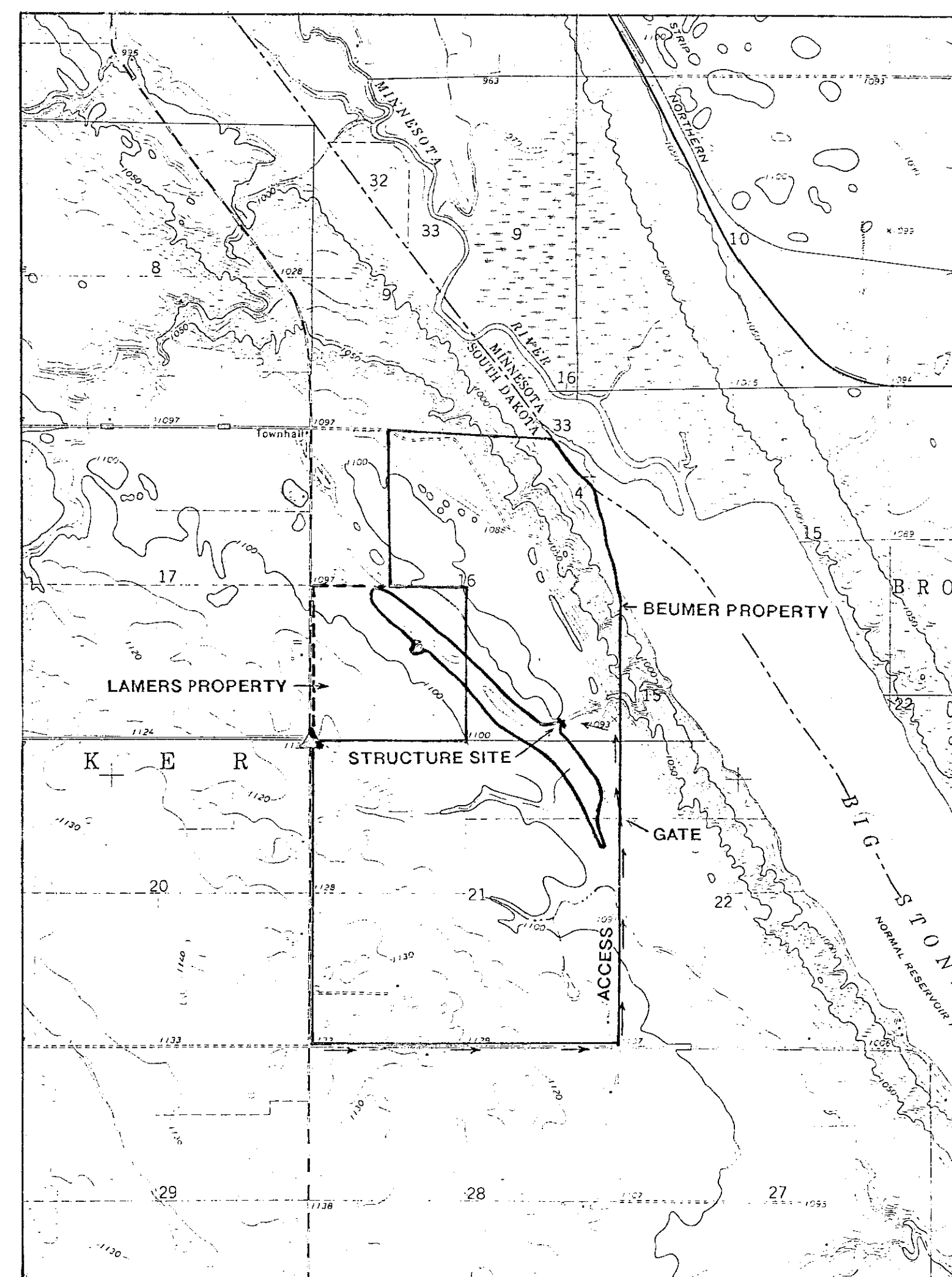
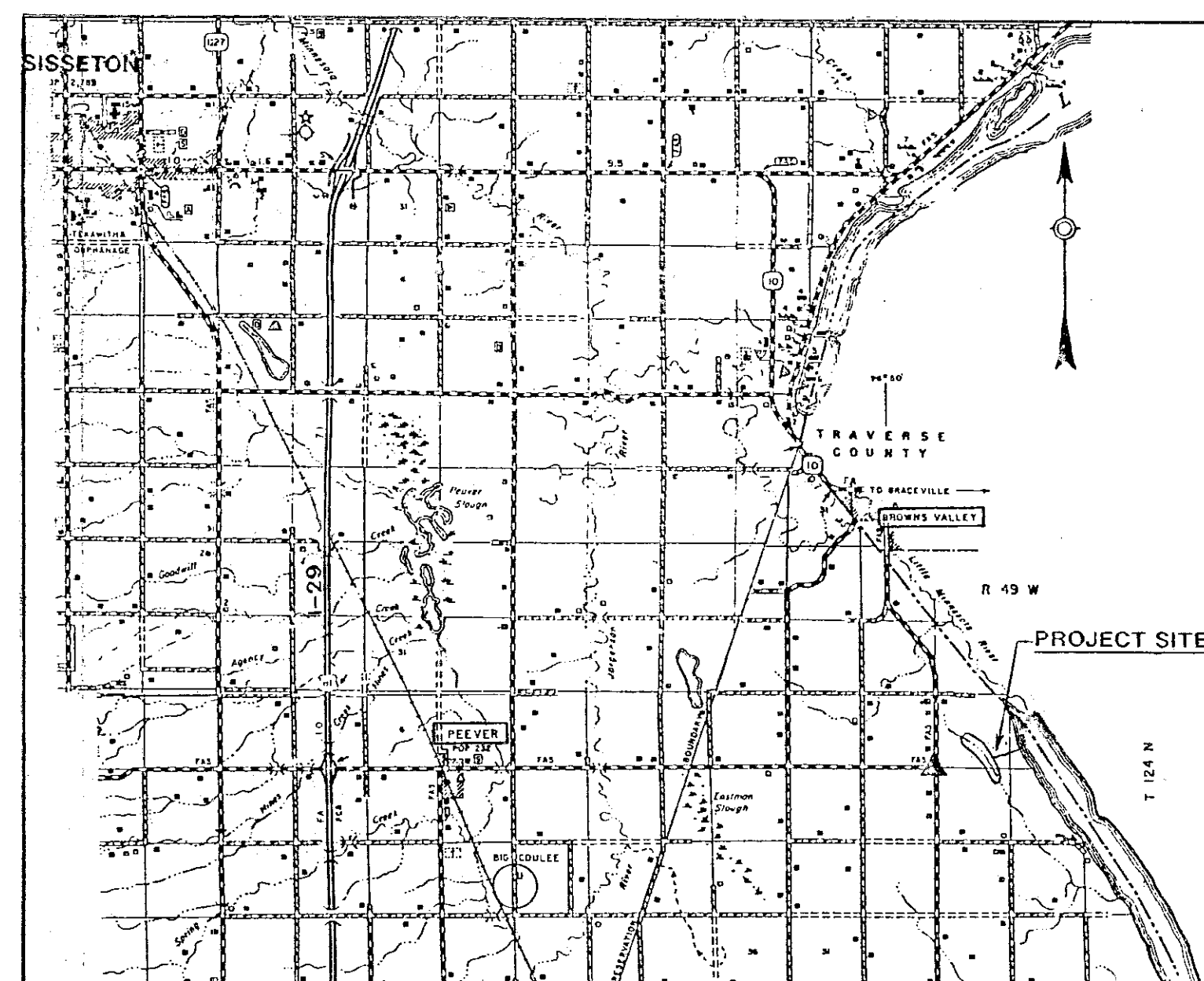
- 1 LOCATION MAPS
- 2 MARSH TOPOGRAPHY
- 3 CULVERT REMOVAL AND REPLACEMENT
PLAN & PROFILE
- 4 WATER CONTROL STRUCTURE DETAILS
- 5 CATWALK FABRICATION DETAILS

ESTIMATED QUANTITIES

MOBILIZATION	1 L.S.
SITE PREPARATION *	1 L.S.
WATER CONTROL STRUCTURE AND CULVERT APPURTENANCES	INC.
CULVERT INSTALLATION (42" CMP) **	53 L.F.
RIPRAP PLACEMENT (CLASS I)	12 C.Y.-P
STRUCTURAL STEEL	1 L.S.
REMOVAL AND SALVAGE OF EXISTING CULVERT	1 EA.
MUSKRAT WIRE PLACEMENT	640 S.F.-P

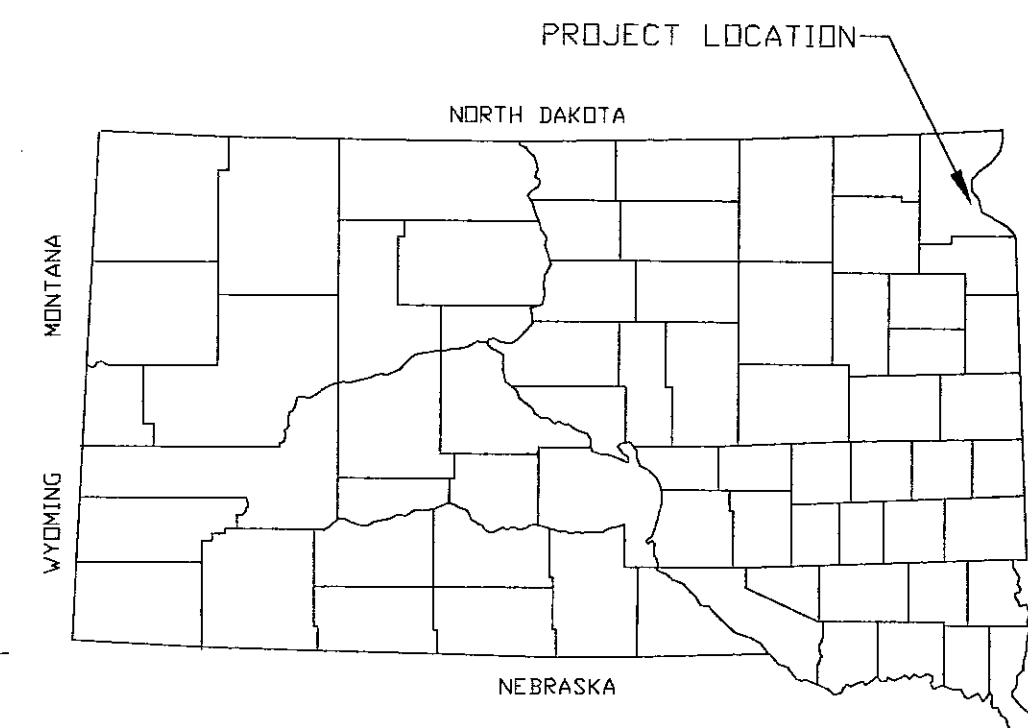
* THE COST OF ANY EXCAVATION REQUIRED FOR CULVERT INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO 'SITE PREPARATION.'

** THE COST OF EMBANKMENT CONSTRUCTION INCLUDING ANY MOISTURE ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO 'CULVERT INSTALLATION.' SEE NOTE ON SHEET 3.

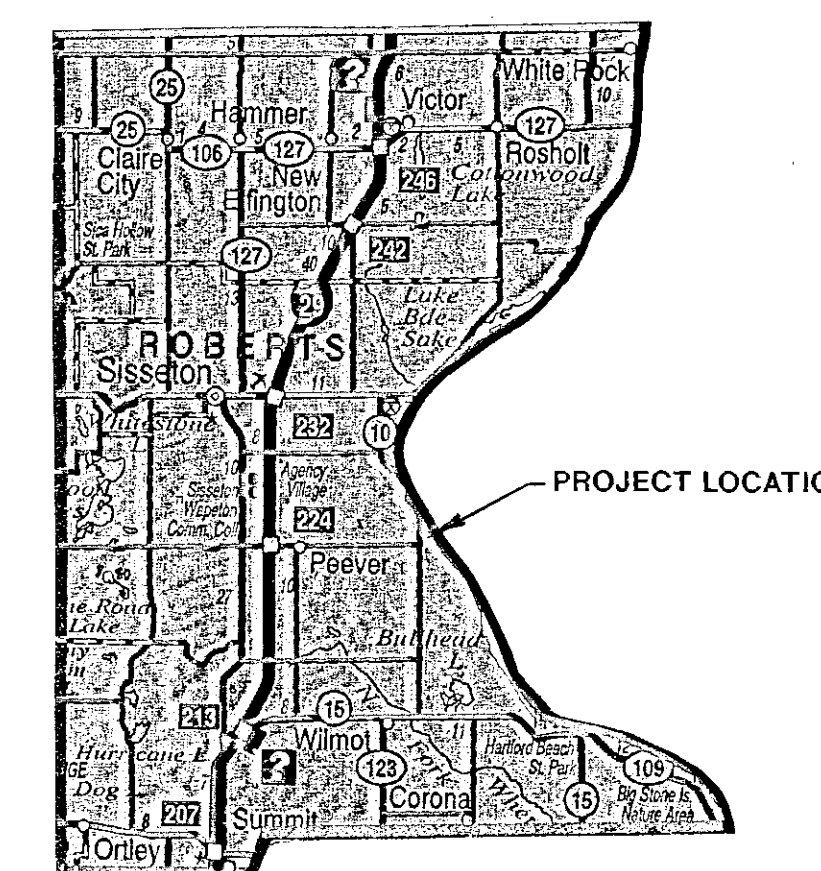
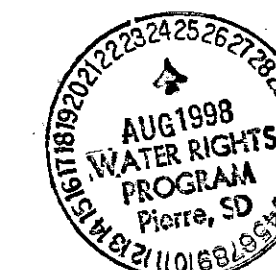


MAP POINT Δ IS 8.5 MILES EAST
OF 1-29, EXIT 224 (PEEVER, SD)

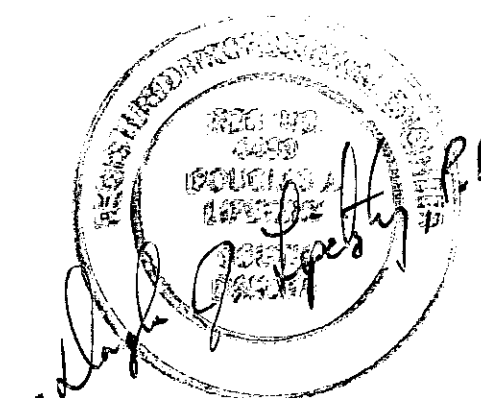
PROJECT LOCATION
LAT. 45° 32' 39"N
LONG. 96° 48' 11" W



SOUTH DAKOTA



ROBERTS COUNTY



AGENCY CONTACT:
KENT DUERRE, DIST. CONS.
NRCS, SISSETON, SD
605-698-7431

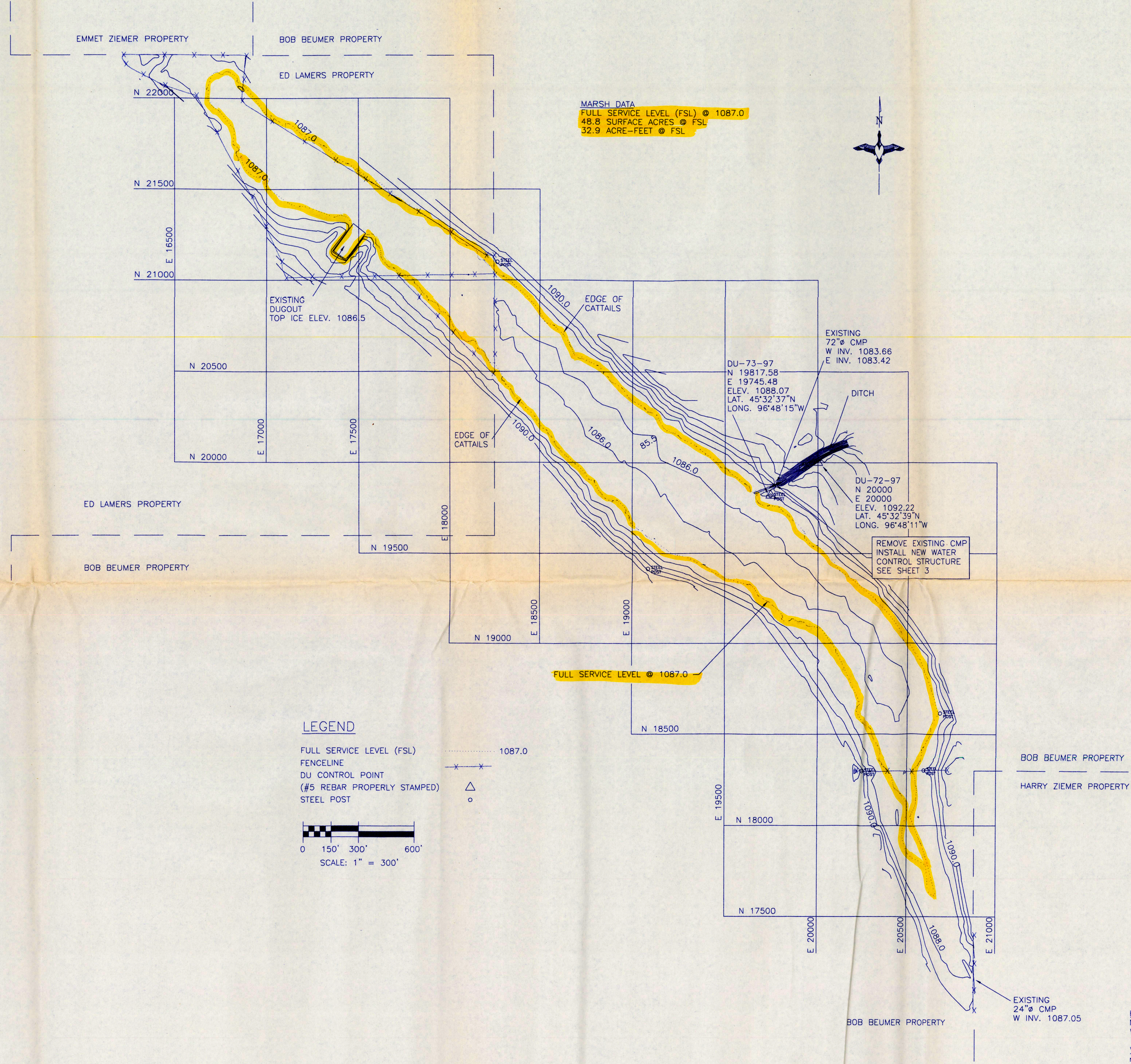
PRIVATE LANDOWNERS:
BOB BEUMER & ED LAMERS
BOB 605-694-2668

PROJECT SIGNING	
SIGN 'A' 24"x36"	SIGN 'B' 11"x14"
1 SIGN 'A' AND 1 SIGN 'B' WILL BE PROVIDED BY DUCKS UNLIMITED AND DELIVERED TO THE COOPERATING AGENCY. THE AGENCY IS RESPONSIBLE FOR INSTALLING THE SIGN(S) AT THE LOCATION(S) DESIGNATED ON THE PLANS.	

 GREAT PLAINS REGIONAL OFFICE DATE: 1-27-1998	PROJECT NO. SD-0250-001 SHEET NO. 1 OF 5	DESIGNED BY: DJL DRAWN BY: M.M.M. SURVEYED BY: GLJ CHECKED BY: BRK
	APPROVED BY:	

6097-3

NOTE:
PROPERTY LINES SHOWN
ARE APPROXIMATE.

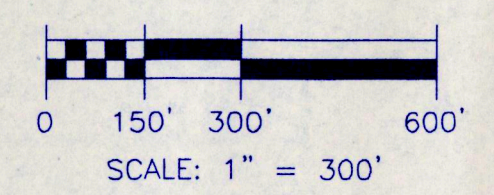


MARSH DATA
FULL SERVICE LEVEL (FSL) @ 1087.0
48.8 SURFACE ACRES @ FSL
32.9 ACRE-FEET @ FSL



LEGEND

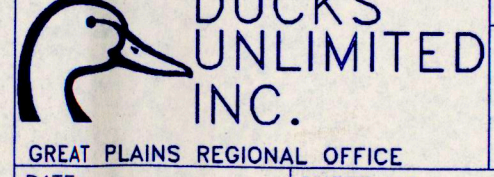
FULL SERVICE LEVEL (FSL) 1087.0
FENCELINE - - - - -
DU CONTROL POINT (#5 REBAR PROPERLY STAMPED) Δ
STEEL POST ○

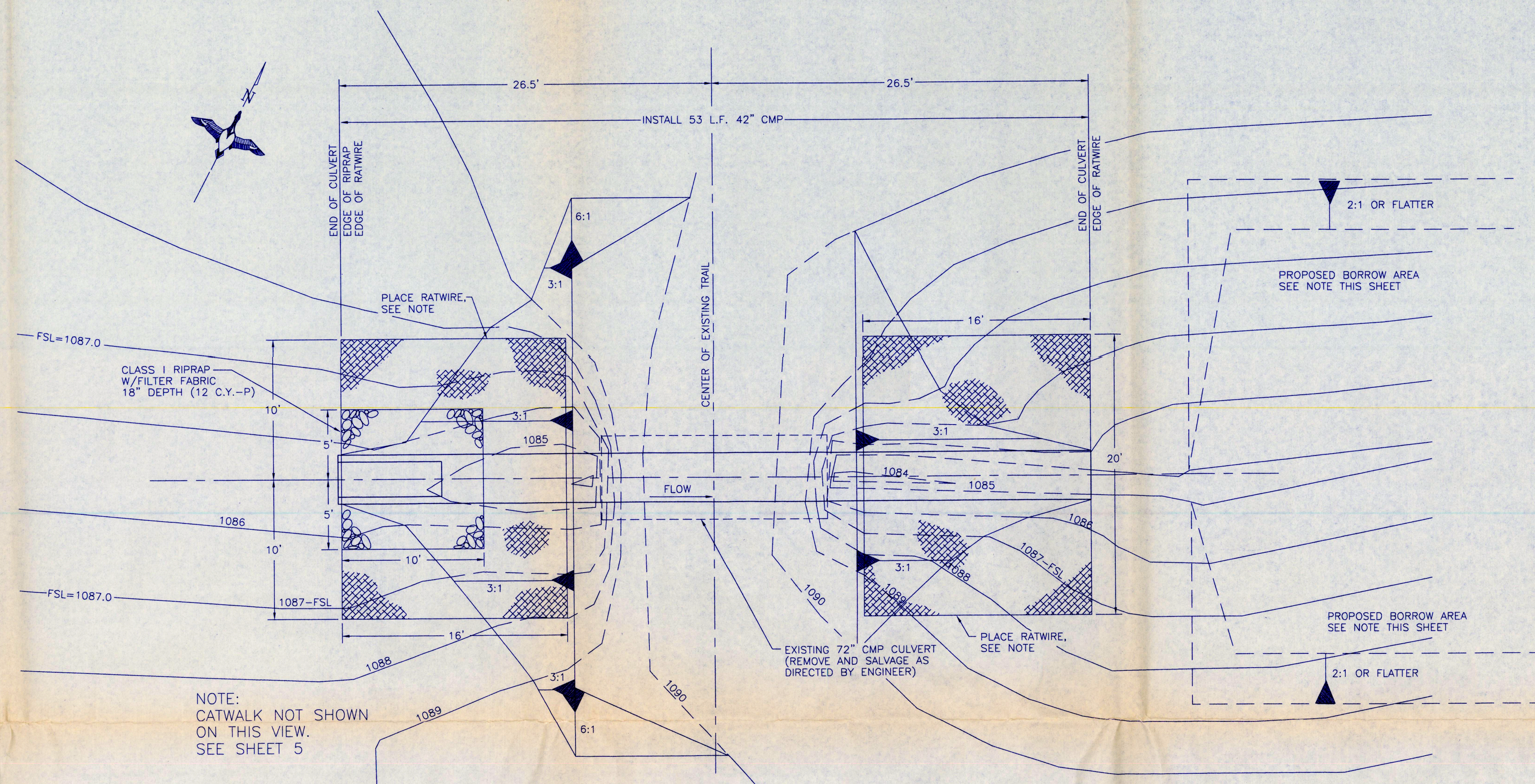


HORIZONTAL CONTROL -- is local DU coordinates with azimuth referenced to True North with observations from Trimble 4400 GPS receivers on 12/12/97 from the WGS84 Ellipsoid.

VERTICAL CONTROL -- was established from the use of the USGS 7 1/2 minute topo map using the spot elevation of the S1/4 corner section 16 fence intersection of 1100 feet. There was no other published elevations for this portion of the survey.

FILENAME: 7268.dwg PLOT DATE: 01/23/98 PLOT TIME: 08:29:19 TOWAN #4

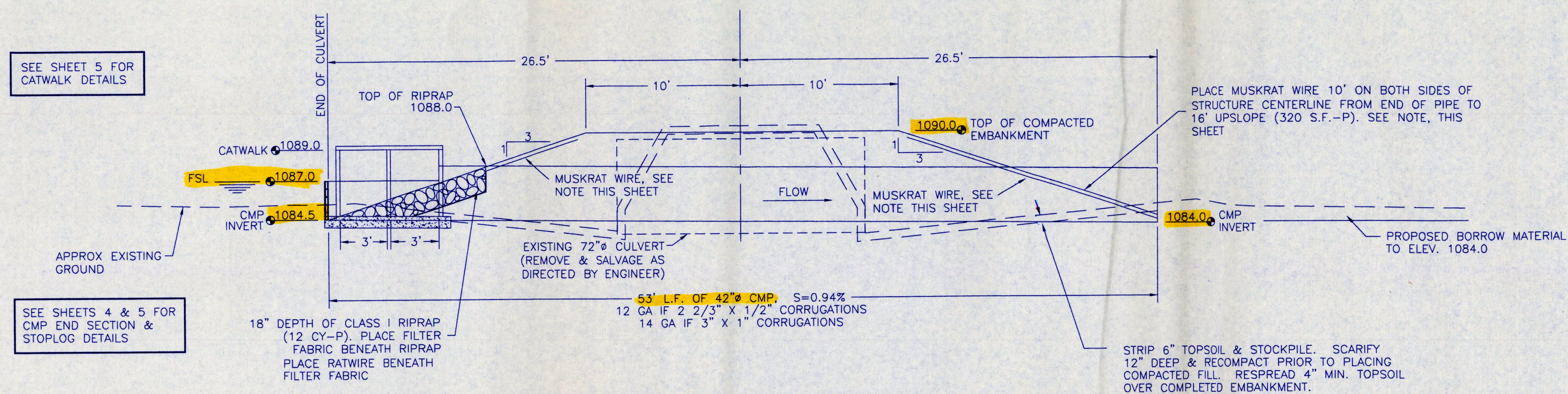
PREPARED BY:  TOMAN ENGINEERING COMPANY CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS 808 2ND ST. N.W. * WANDAN, NORTH DAKOTA 58554 * 701-953-6483	 GREAT PLAINS REGIONAL OFFICE DATE: 01-23-98 SHEET NO. SHEET 2 OF 5	PROJECT NO. SD-0250-001	DESIGNED BY: D.J.L.
		BEUMER WETLAND	DRAWN BY:
		PRELIMINARY TOPOGRAPHY	SURVEYED BY:
		APPROVED BY:	CHECKED BY: BRK



MUSKRAT WIRE NOTES:
WIRE SHALL BE PLACED UNDER TOPSOIL (OR UNDER FILTER FABRIC WHERE RIPRAP EXISTS) IN AREAS SPECIFIED. WIRE SHALL BE RED BRAND 1" X 2" GALVANIZED, 14 GA., MANUFACTURED BY KEYSTONE STEEL & WIRE CO., OR APPROVED EQUAL. SECURE WIRE TO GROUND WITH WOODEN HUB OR METAL STAKE WITH WASHER. OVERLAP SEAMS 2". COST OF MATERIALS & PLACEMENT SHALL BE INCLUDED IN "MUSKRAT WIRE" BID ITEM.

EMBANKMENT CONSTRUCTION NOTES:
THE COST OF REQUIRED EMBANKMENT CONSTRUCTION (APPROX. 225 CY WHICH INCLUDES REPLACING THE QUANTITY EXCAVATED FOR REMOVING THE EXISTING CMP) SHALL BE CONSIDERED INCIDENTAL TO "CULVERT INSTALLATION." ANY WATER REQUIRED TO BRING THE MOISTURE UP TO SPECIFICATION SHALL ALSO BE CONSIDERED INCIDENTAL.

SUITABLE MATERIAL FOR THE EMBANKMENT SHALL BE OBTAINED FROM THE EDGES OF THE DOWNSTREAM CHANNEL BY WIDENING THE CHANNEL BOTTOM "SLIGHTLY" AND/OR FLATTENING THE SIDESLOPES. BORROW AREA EXCAVATION SHALL BE APPROVED IN ADVANCE BY THE LANDOWNER, BOB BEUMER.



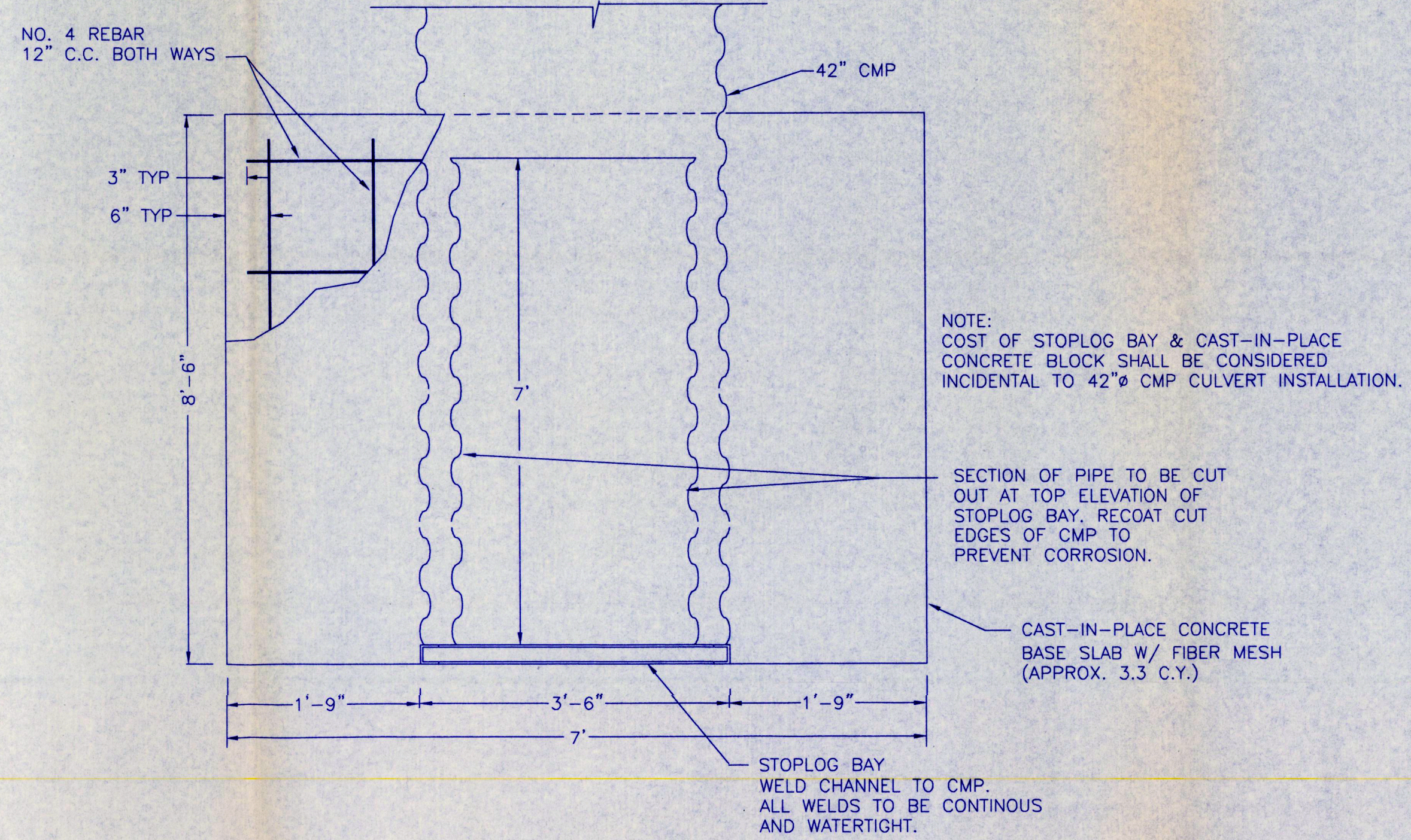
C PLAN & PROFILE
SCALE: 1" = 5' HORIZ. & VERT.

PREPARED BY:
TECO
7268
TOMAN ENGINEERING COMPANY
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
908 2ND ST. N.W. • MINNEAPOLIS, NORTH DAKOTA 55404 • 701-593-6483

DUCKS UNLIMITED INC.
GREAT PLAINS REGIONAL OFFICE
DATE: 01-23-98
SHEET NO. 3 OF 5

PROJECT NO. SD-0250-001
**BEUMER WETLAND
WATER CONTROL STRUCTURE
PLAN & PROFILE**

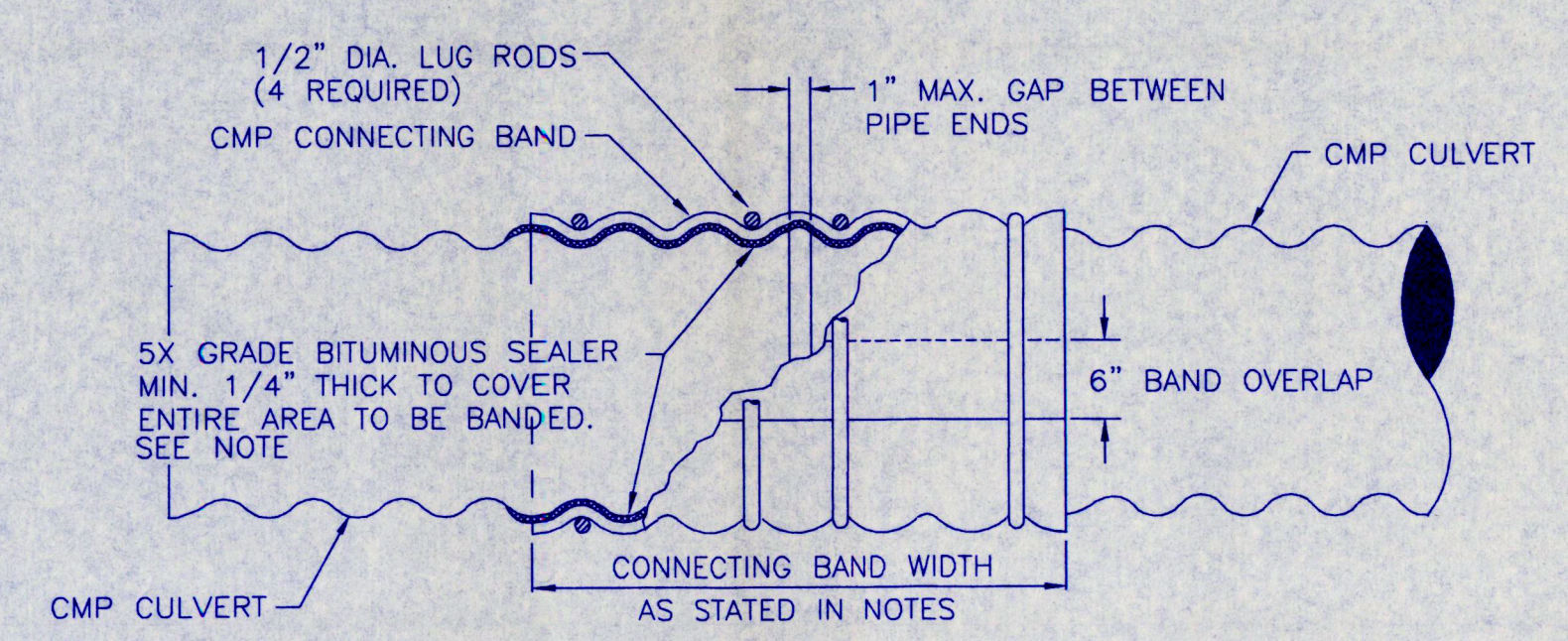
DESIGNED BY: D.J.L.
DRAWN BY: AM
SURVEYED BY:
CHECKED BY: BRK
APPROVED BY:



TOP VIEW

NOTES: CATWALK SUPPORT COLUMNS AND ANCHOR PLATES ARE NOT SHOWN ON THESE VIEWS. CATWALK CAN BE INSTALLED SEPERATELY FROM WATER CONTROL STRUCTURE. SEE SHEET NO. 5 FOR CATWALK CONSTRUCTION DETAILS.

STOPLOG BAY FABRICATION AND CONCRETE BLOCK INSTALLATION SHALL BE CONSIDERED CULVERT APPURTENANCES AND INCIDENTAL TO "CULVERT INSTALLATION". NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.

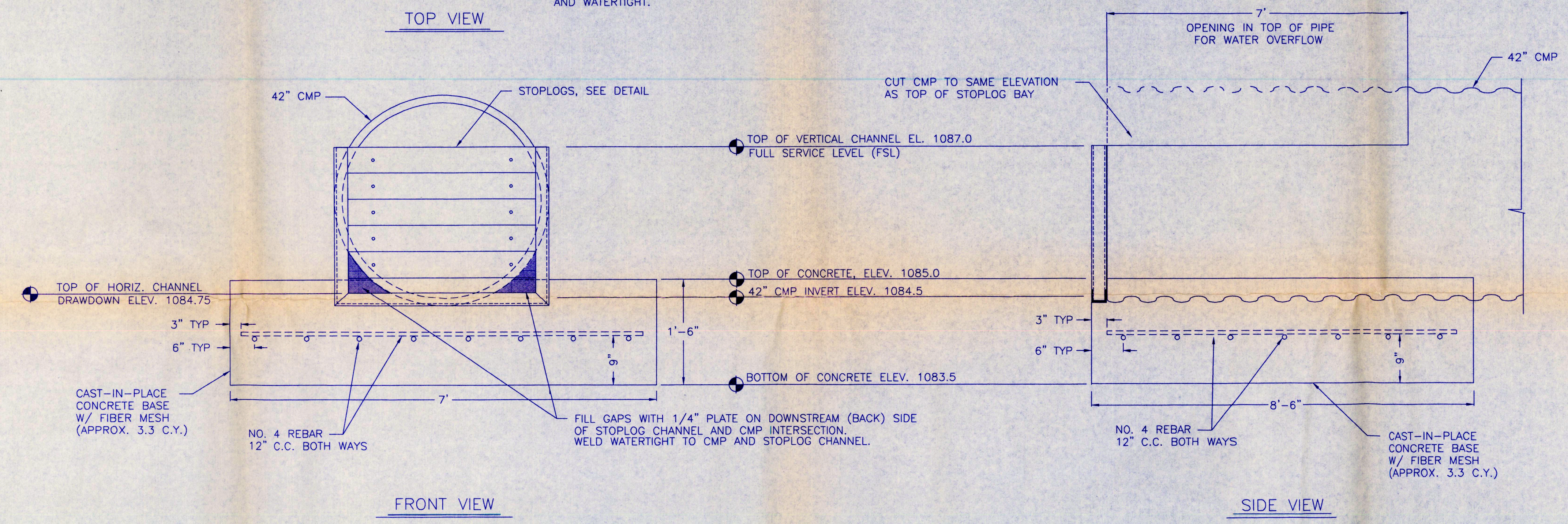


AFTER BANDS HAVE BEEN TIGHTENED, A COAT OF 5X SEALER SHALL BE APPLIED AROUND THE CULVERT AT THE ENDS OF THE CONNECTING BAND AND ALONG THE SEAM OF THE BAND OVERLAP.

NOTE TO SUPPLIERS:
IF ANNULAR PIPE IS USED, USE A 2 FT. WIDE ANNULAR BAND. IF HELICAL PIPE WITH 4 CORRUGATIONS REROLLED TO ANNULAR IS USED, USE A 21 INCH WIDE ANNULAR BAND. SEE SPECIFICATION 207.2.

CONNECTING BAND DETAIL

NOT TO SCALE

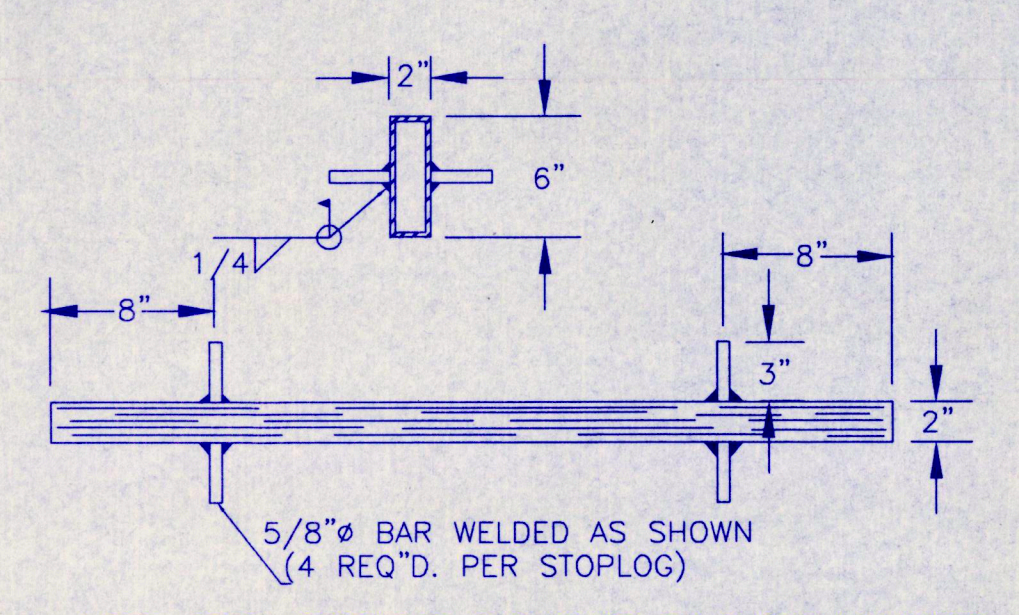


FRONT VIEW

SIDE VIEW

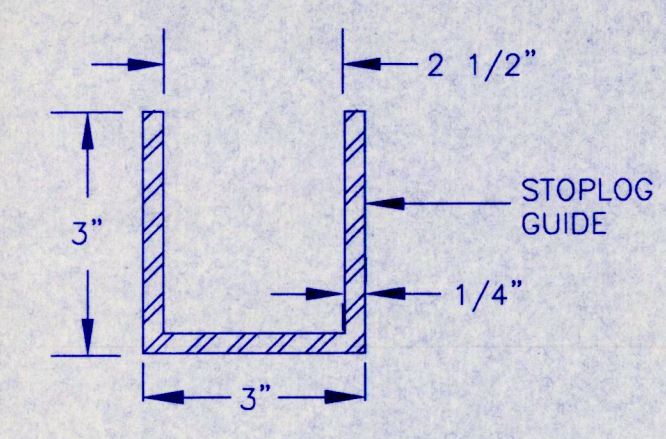
WATER CONTROL STRUCTURE DETAIL

NOT TO SCALE



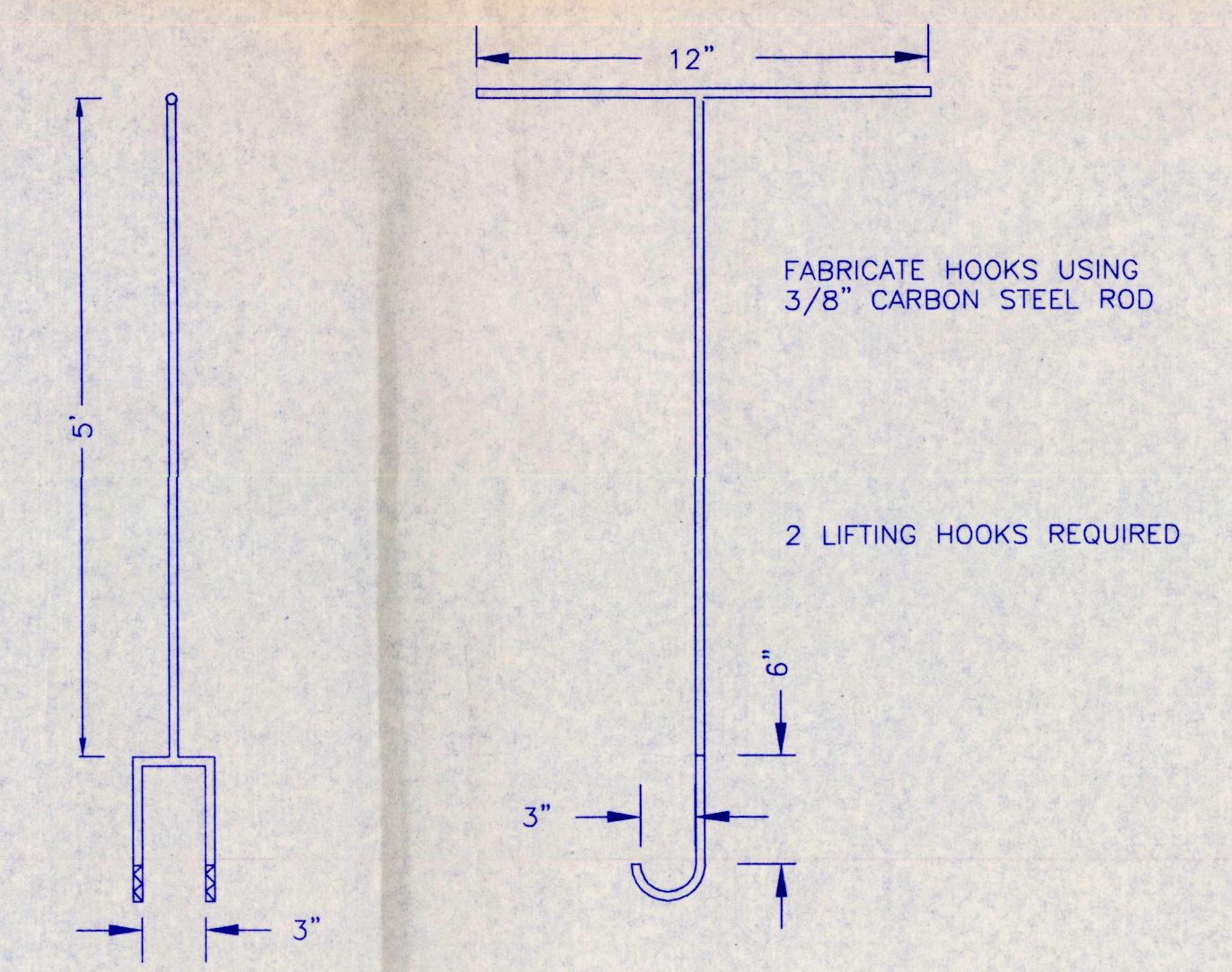
STEEL STOPLOG DETAIL

NOT TO SCALE



STOPLOG GUIDE DETAIL

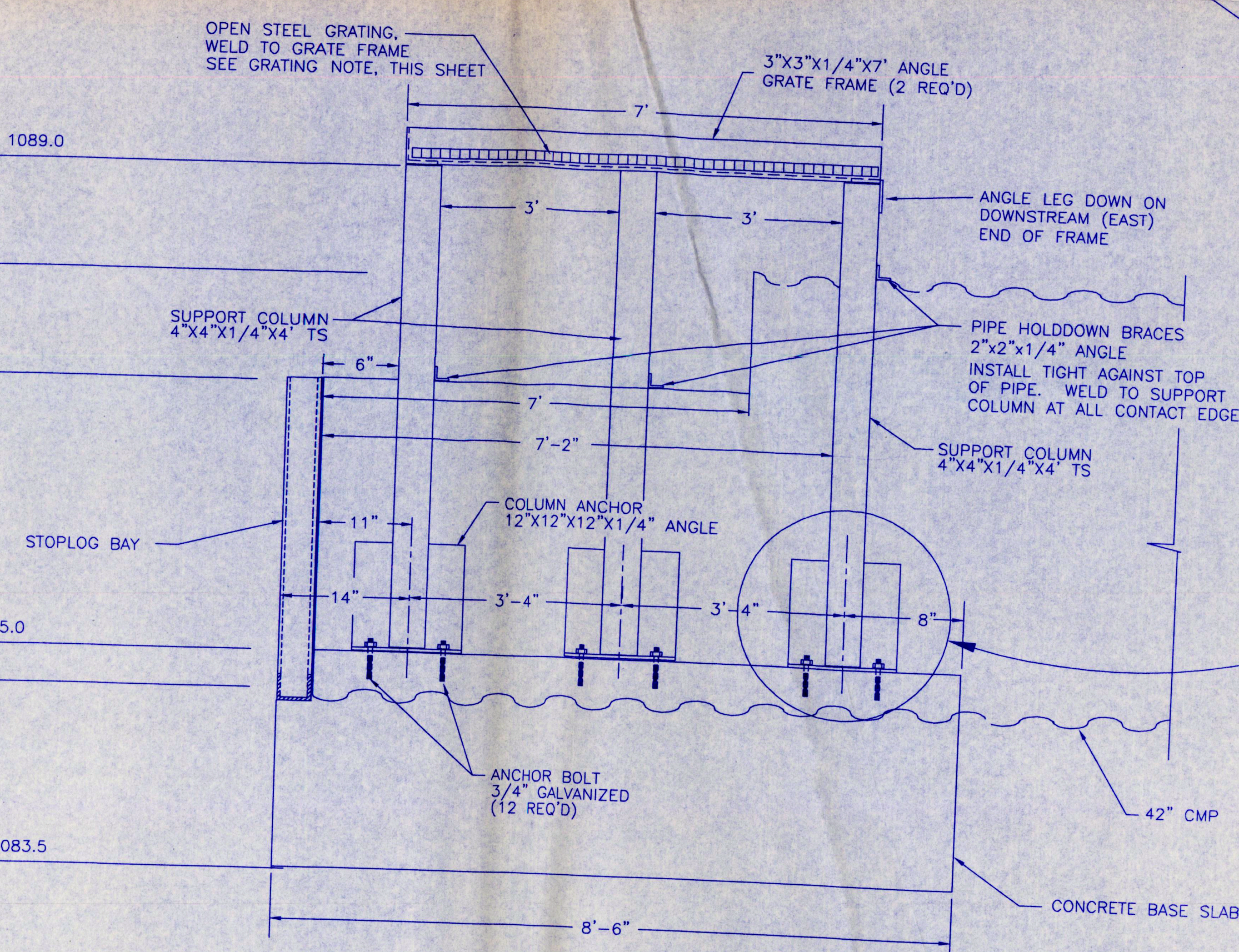
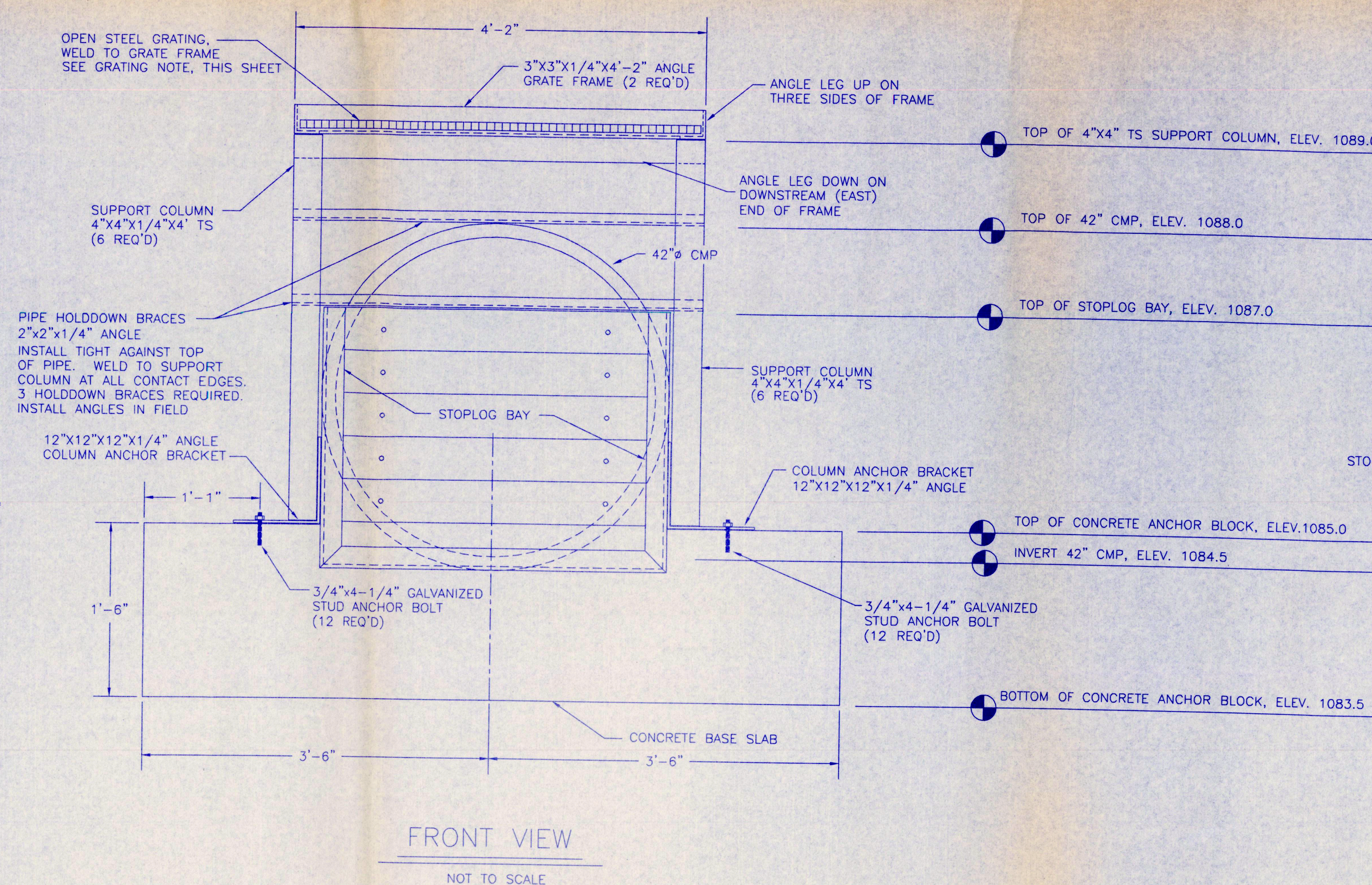
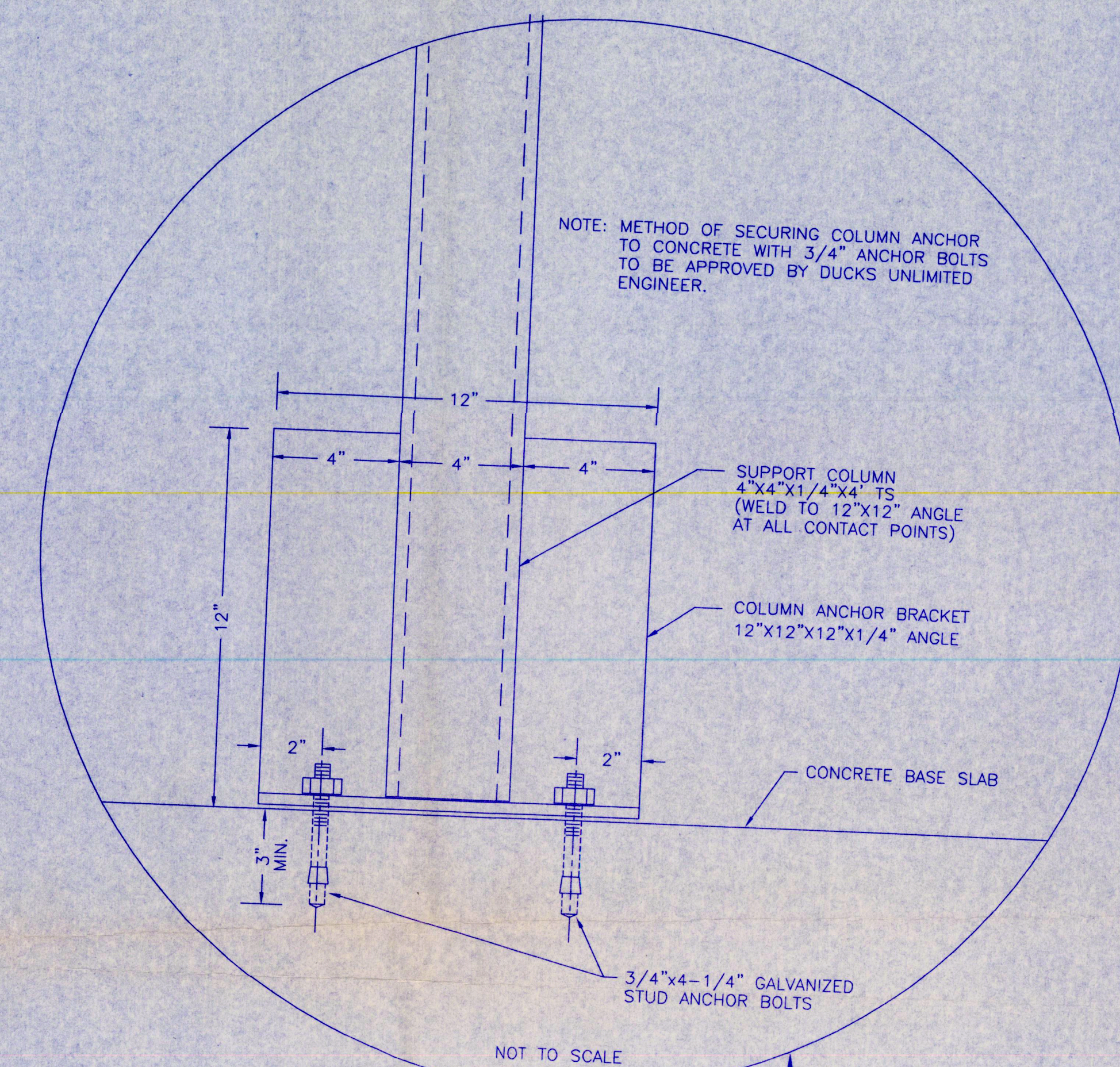
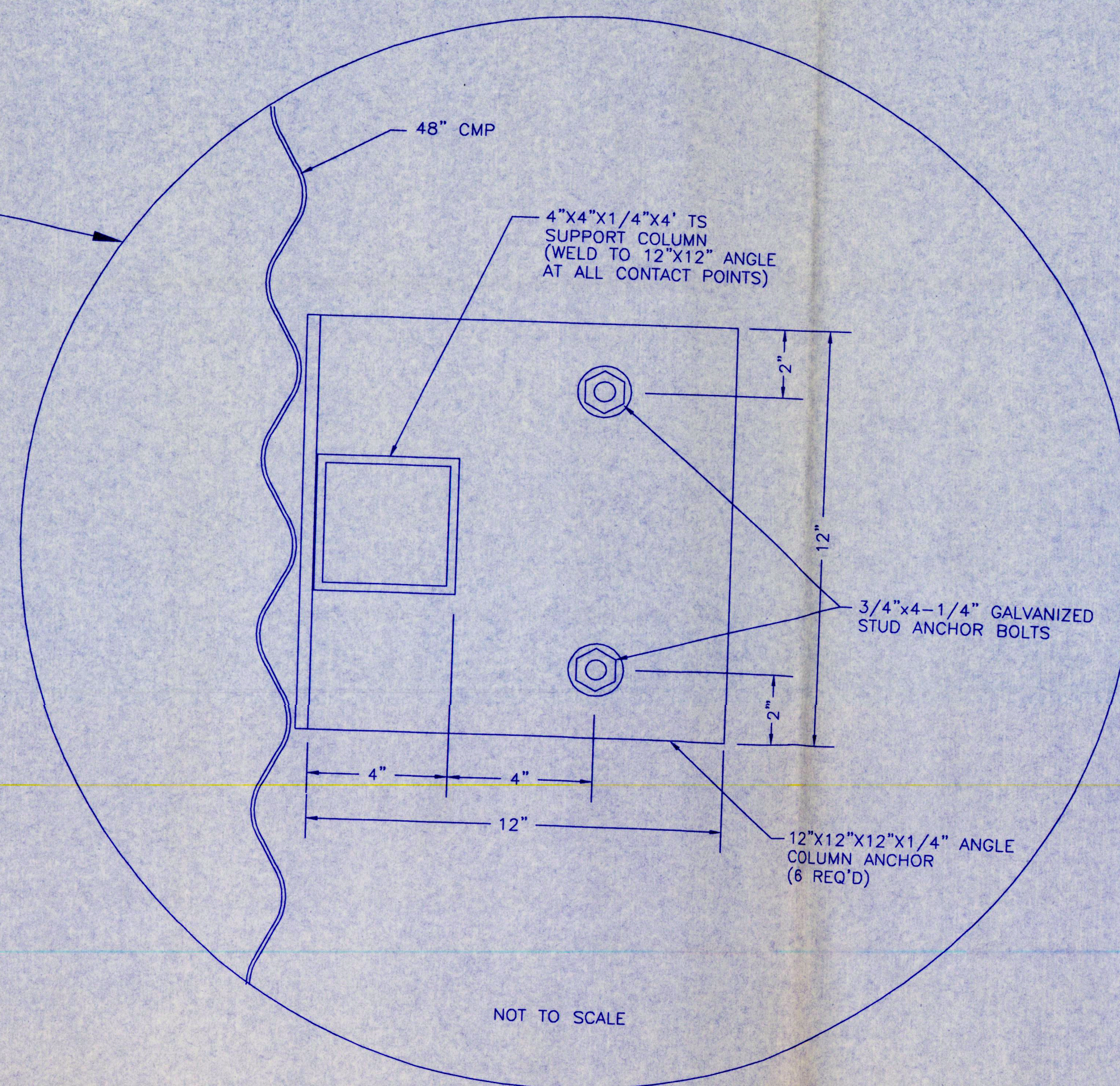
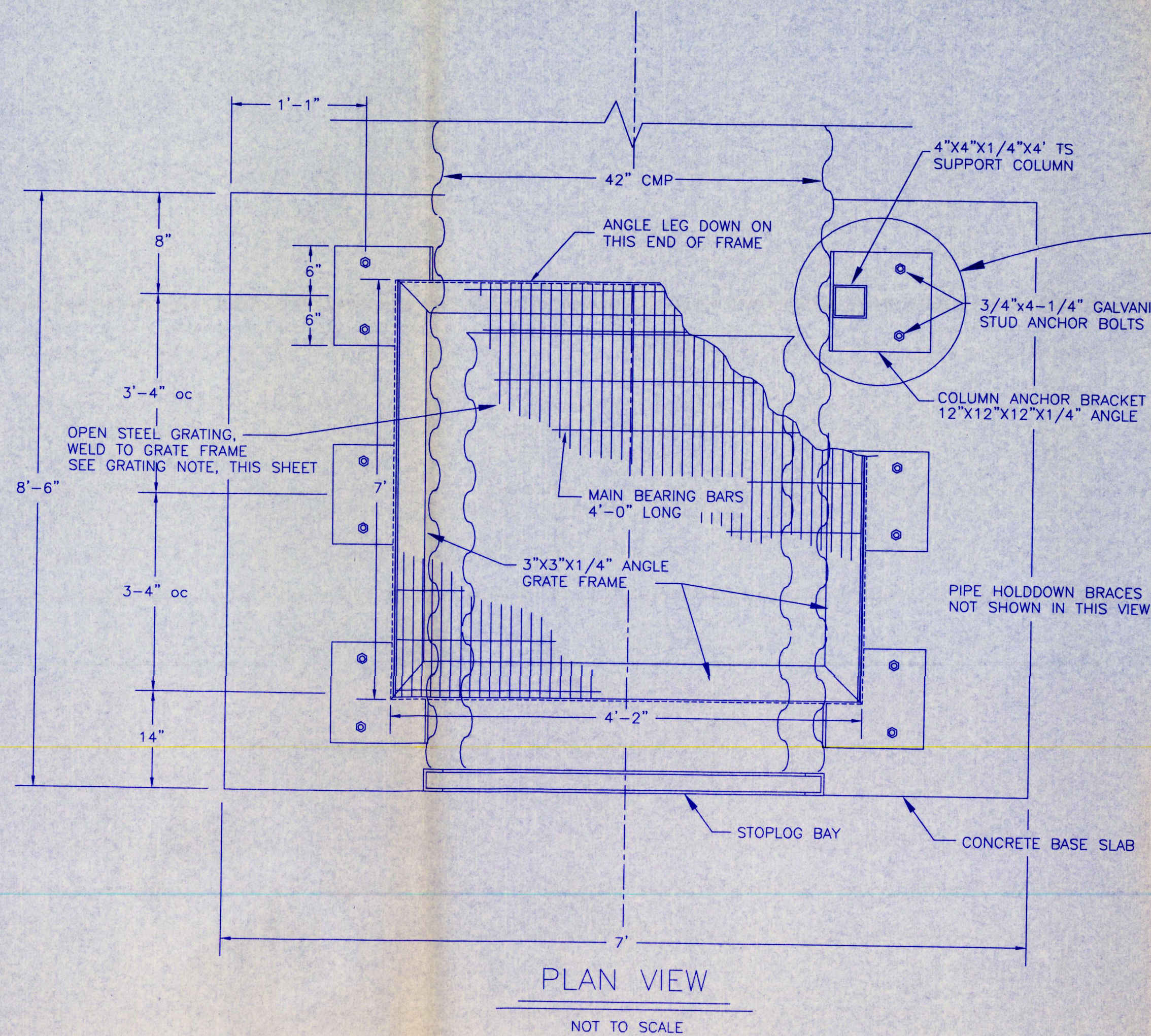
NOT TO SCALE



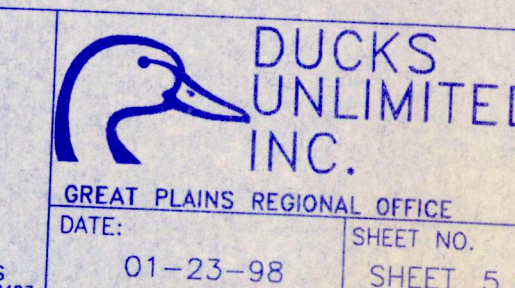
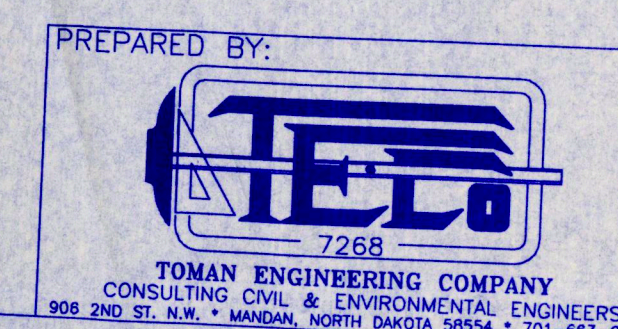
STOPLOG LIFTING HOOK DETAIL

NOT TO SCALE

PREPARED BY: TECO TOWAN ENGINEERING COMPANY CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS 808 2ND ST. N.W. • MINNAPOLIS, NORTH DAKOTA 58004 • 701-663-5483	DUCKS UNLIMITED INC. GREAT PLAINS REGIONAL OFFICE DATE: 01-23-98 SHEET NO. 4 OF 5	PROJECT NO. SD-0250-001 BEUMER WETLAND STRUCTURE DETAILS MISCELLANEOUS DETAILS APPROVED BY:	DESIGNED BY: DJL DRAWN BY: AM SURVEYED BY: CHECKED BY: BRK
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- NOTE:
1. ALL STEEL TO BE A36.
 2. ALL WELDS TO BE 1/4" FILLET WELDS.
 3. STEEL TO BE USED FOR CATWALK SHALL BE SHOP PRIMER COATED AND PAINTED FLAT BLACK AFTER FABRICATION.
 4. GRATING TO BE OPEN STEEL GRATING, RYERSON 19-W-4 STANDARD MESH, BEARING BARS 1" X 3/16", CROSS BARS 1/4", 7.2 LBS/S.F. (OR ENGINEER APPROVED EQUAL). BEARING BARS SHALL BE 4' LONG.
 5. THE COST OF STRUCTURAL STEEL MATERIALS, FABRICATION AND INSTALLATION FOR THE CATWALK SHALL BE INCLUDED IN THE BID ITEM FOR "STRUCTURAL STEEL" AND WILL BE PAID FOR BASED ON THE UNIT BID PRICE FOR SUCH ITEM.



PROJECT NO. SD-0250-011	DESIGNED BY:
BEUMER WETLAND	DRAWN BY: AM
CATWALK FABRICATION	SURVEYED BY:
DETAILS	CHECKED BY: BRK
DATE: 01-23-98	APPROVED BY:
SHEET NO. 5 OF 5	APPROVED BY: