

Information for File #2012-03008-BGO

Applicant: Lincoln County – Robert Olsen

Corps Contact: Benjamin Orne

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Phone: (651) 290-5280

Primary County: Lincoln County

Section: 10

Township: 109N.

Range: 44W.

Information Complete On: May 31, 2013

Posting Expires On: June 10, 2013

Authorization Type: LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above.

Project Description

The project is intended to improve the drainage of County Ditch No. 33, located about 1 mile south of Tyler, Minnesota. A new tile is planned to run from northwest to southeast through a former lake bed known locally as Danebod Lake. Approximately the north half of the lake bed is fresh (wet) meadow (Type 2) and shallow marsh (Type 3) wetland. The proposal is to construct non-perforated tile through the north part of the lake bed and to set the top of an upstream intake at an elevation which will preserve the function of the wetland. The intake is proposed to be placed directly in front of a 24-inch concrete apron recently installed by the Minnesota DNR and will function only as an overflow for excess

water from the Tyler Wildlife Management Area. On the south part of the former lake bed, which is farmed, the tile is proposed to be perforated.

The project would temporarily impact 1.4 acres of fresh meadow and shallow marsh wetlands necessary for the installation of the non-perforated tile through the north part of Danebod Lake. The 1.4 acres of fresh meadow and shallow marsh wetlands that would be temporarily impacted would be restored to pre-construction conditions and allowed to re-vegetate via natural recruitment.

Federally-listed Threatened and Endangered Species

According to the USFWS Midwest Region website, which was checked on May 17, 2013, the Topeka shiner (endangered), Dakota skipper (candidate), Poweshiek skipperling (candidate), and Western prairie fringed orchid (threatened) are found in Lincoln County, Minnesota.

Historic Properties

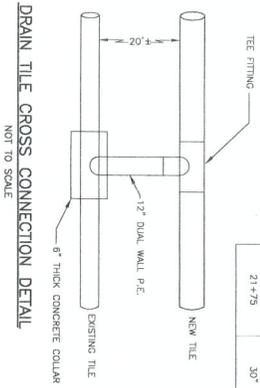
The latest version of the National Register of Historic Places has been consulted and no listed properties (known to be eligible for inclusion, or included in the Register) are located in the project area.

State Listed Impaired (Section 303(d)) Waters

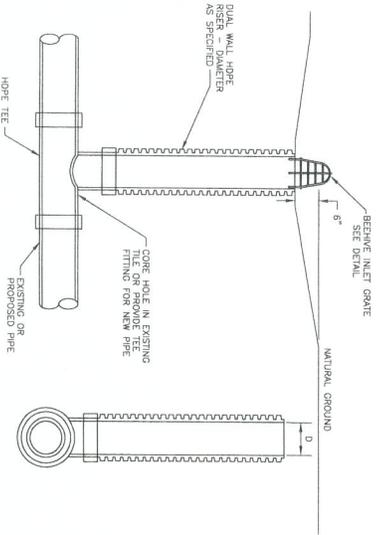
The proposed project would not impact any state listed impaired water resources.

Drawings See attached.

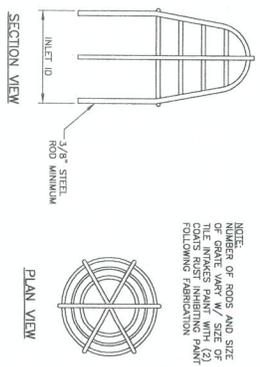
DRAIN TILE CROSS CONNECTION DETAIL	
STATION	SIZE NEW MAIN
21+75	30"



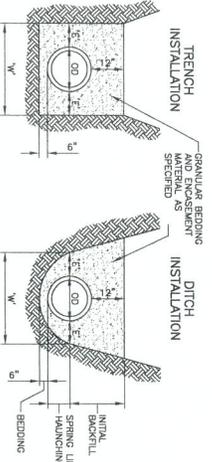
DRAIN TILE CROSS CONNECTION DETAIL
NOT TO SCALE



TILE INLET DETAIL
NOT TO SCALE



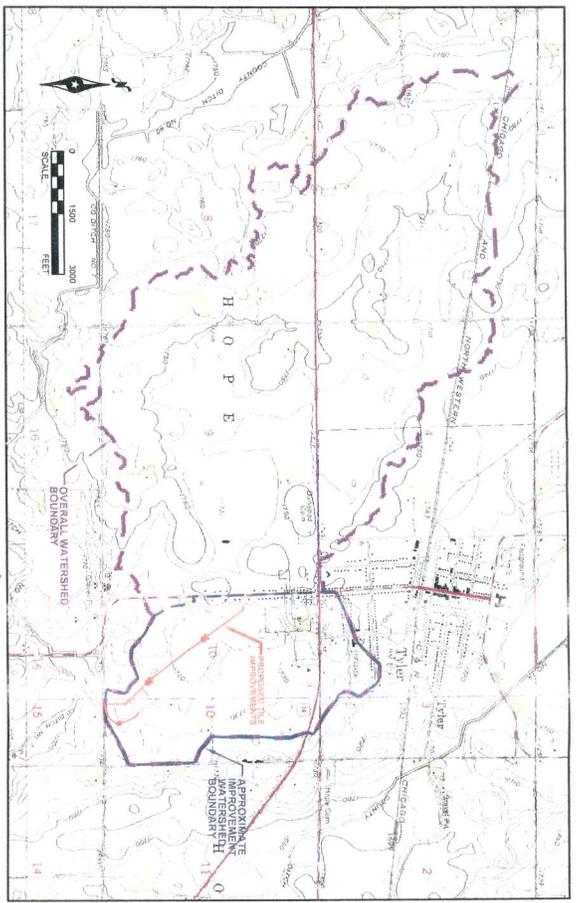
BEEHIVE INLET GRATE (STEEL BARS)
NOT TO SCALE



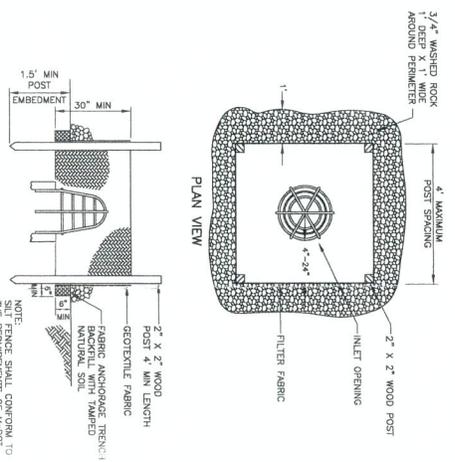
- NOTES:**
1. BEDDING DETAIL TO APPLY IN AREAS OF NON-PERFORATED TILE. OTHER AREAS TO BE BEDDED WITH ONE INCH SAND. PER SPECIFICATIONS.
 2. GRANULAR BEDDING AND ENVELOPE MATERIAL AS SPECIFIED.
 3. CONSTRUCTION REQUIREMENTS PER SPEC 2451 MODIFIED SO THAT ENVELOPE MATERIAL IS COMPACTED IN UNIFORM LIFTS, 8" OR LESS IN DEPTH, LOOSE MEASURE TO 95%.
 4. 12" ABOVE THE CROWN OF THE PIPE.
 5. COST FOR FURNISHING AND INSTALLING GRANULAR BEDDING AND ENVELOPE MATERIALS SHALL BE INCLUDED IN THE PRICE BID FOR POLYETHYLENE PIPE, PER LINEAL FOOT.

PIPE SIZE (Nominal)	PIPE OD (Minimum)	ENVELOPE (Minimum)	MINIMUM TRENCH WIDTH (OD+2B)
4"	4.6"	3"-4"	10"
6"	6.8"	4"-6"	14"
8"	9.5"	4"-8"	20"
10"	11.6"	5"-8"	24"
12"	14.2"	5"-8"	30"
14"	16.8"	6"-10"	36"
18"	22.0"	6"-10"	48"
24"	29.5"	8"-12"	66"
30"	35.4"	8"-12"	85"
36"	41.0"	8"-12"	105"

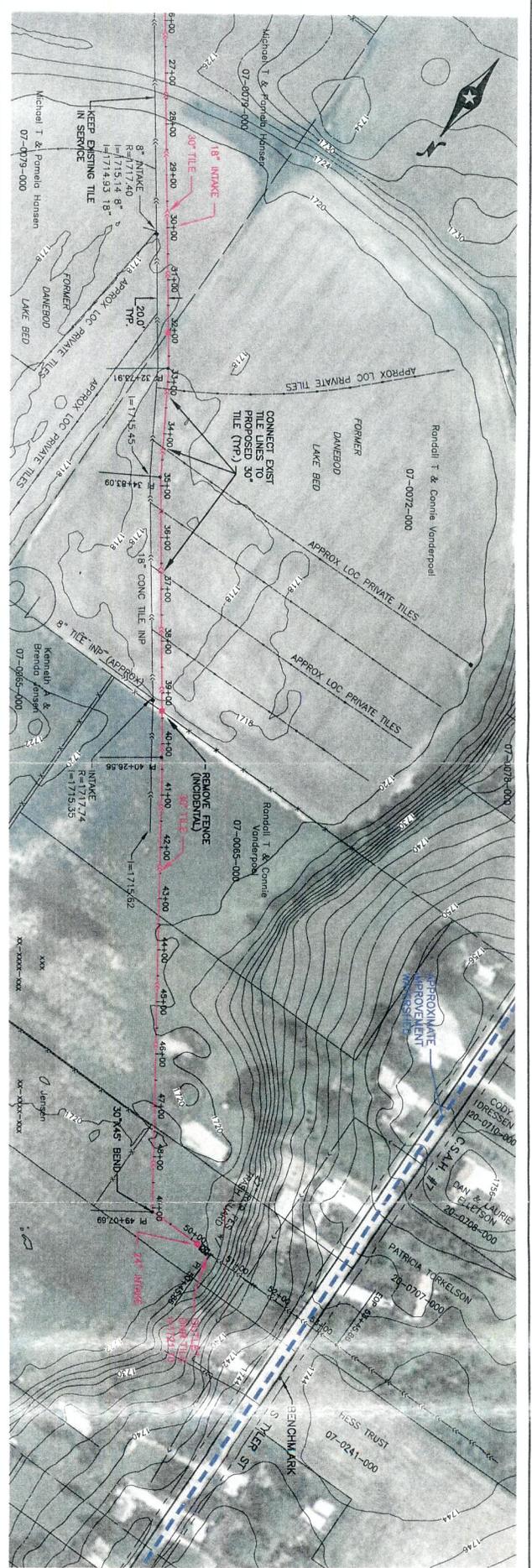
DUAL WALL POLYETHYLENE TRENCH
NOT TO SCALE



WATERSHED MAP
1" = 1500'

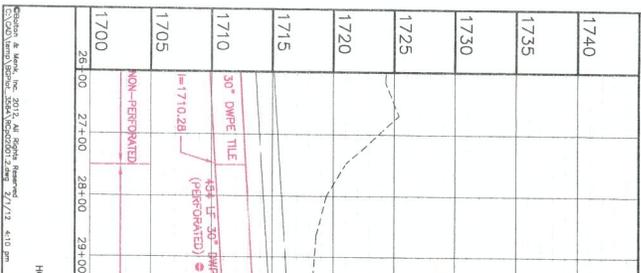


INLET PROTECTED PREASSEMBLED SILT FENCE
NOT TO SCALE



1740	281.00	271.00	284.00	294.00	304.00	314.00	324.00	334.00	344.00	354.00	364.00	374.00	384.00	394.00	404.00	414.00	424.00	434.00	444.00	454.00	464.00	474.00	484.00	494.00	504.00	514.00	524.00	534.00	544.00	554.00	564.00	1740C	
1735																																	1735E
1730																																	1730C
1725																																	1725E
1720																																	1720C
1715																																	1715E
1710																																	1710C
1705																																	1705E
1700																																	1700C

60" SPIKE UP 0.5FT WEST SIDE PP CO RD #7 (S TIER ST)
 1740C
 1735E
 1730C
 1725E
 1720C
 1715E
 1710C
 1705E
 1700C



I HEREBY CERTIFY THAT THE PLAN, SPECIFICATIONS, AND REPORTS AND REVISIONS THEREON WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MINNESOTA.
 DATE: 11/13/12
 NAME: DANIEL W. HANSEL

BOLTON & MENK, INC.
 Consulting Engineers & Surveyors
 1000 W. WASHINGTON ST. SUITE 200
 CHASKA, MN 55309

MINNESOTA
 LINCOLN COUNTY DITCH NO. 33 IMPROVEMENT
 PLAN - PROFILE - CO DITCH NO. 33
 29+00 - 50+50

SHEET 3.2