

OFFICIAL ENGINEER'S REPORT

RICE CREEK WATERSHED DISTRICT

CONSENT AGENDA

December 12, 2001

It was moved by _____ and seconded by _____

_____ to approve, table with authorization for administrative action,

or table the Permit Applications noted in the following table of contents in accordance with the

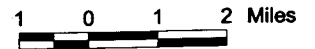
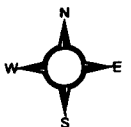
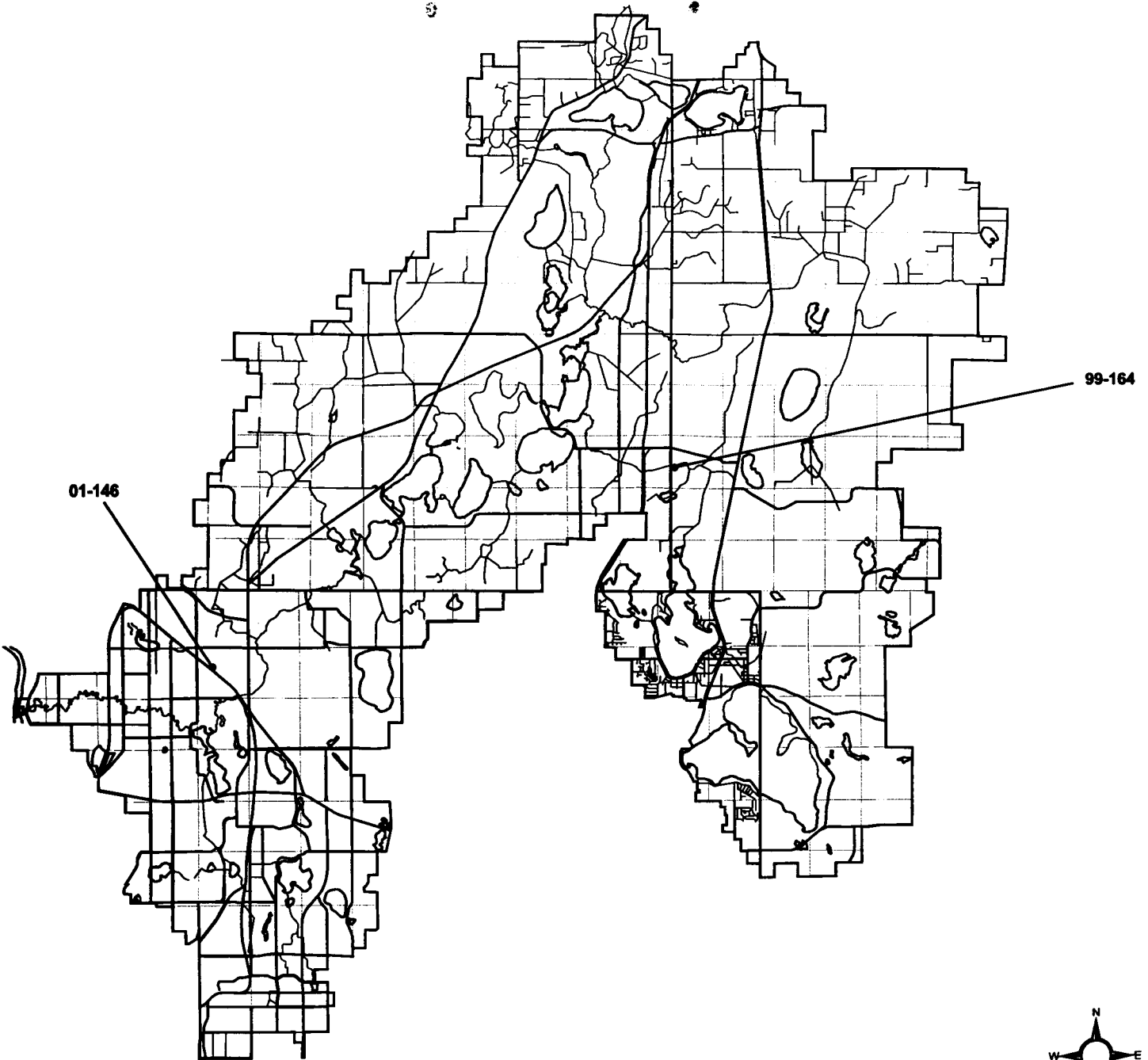
District Engineer's Findings and Recommendations, as contained in the Engineer's Report dated

December 7, 2001.

NONE

Rice Creek Watershed District

2001 Permit Location Maps



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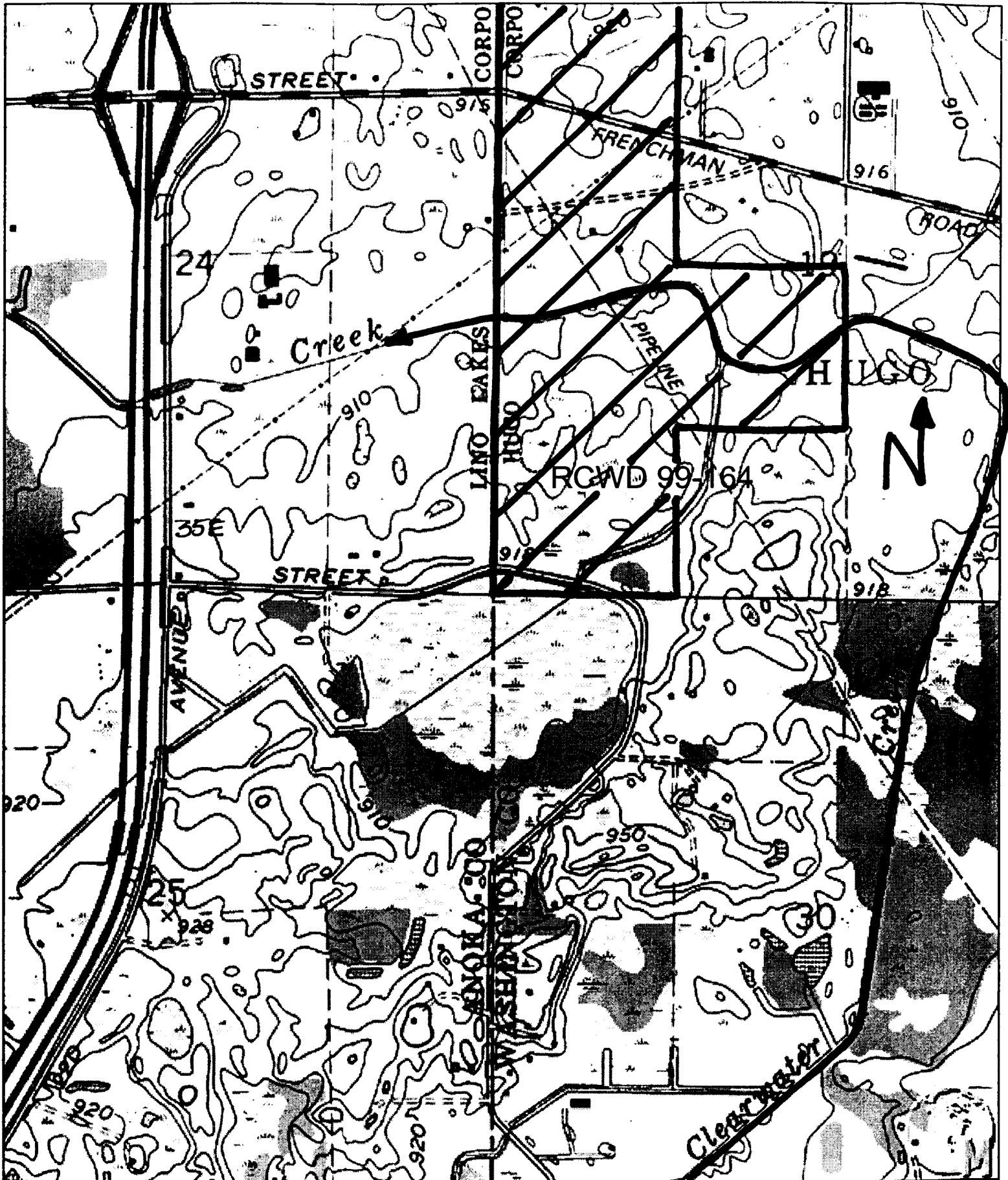
RICE CREEK WATERSHED DISTRICT

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December 12, 2001

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| 99-164 | Pratt, Arnt, Oakwood – Scherer, LLC | TWAFAA |
| 01-146 | Clear Channel Outdoor | TWAFAA |

* To be presented



<Default> - 1 Markers, Length = 0 feet

RCWD 99-164 - 045° 09' 21.1" N, 093° 01' 08.1" W

Name: CENTERVILLE
 Date: 6/22/101
 Scale: 1 inch equals 1000 feet

Location: 045° 09' 10.8" N 093° 01' 10.9" W
 Caption: RCWD Permit Application 99-164

99-164

Rice Creek Watershed District Permit Application Number

99-164

Applicant: Pratt, Arnt, Oakwood - Consultant: Jason McCarty
Sherer, LLC Westwood Professional
1611 Hwy. 10 NE Services, Inc.
Spring Lake Park 7599 Anagram Drive
MN, 55432 Eden Prairie, MN 55344
Ph: 763-780-4996 Ph: 952-937-5150
Fx: 763-780-8591 Fx: 952-937-5822

Purpose: Amendment of a Wetland Alteration Plan and a Rough Grading Plan for Phase I for a single family, multifamily, and commercial development riparian to Clearwater Creek and Branch 4 to be known as Victor Gardens to include a Land Development Plan for Phase I, (82 lots on 40± acres), 220± acres.

Location: North of Cedar Street and east of Elmcrest Avenue N, Hugo.

T-R-S: 31-21-19 bb, bc, ca, cb, and cc

Recommendation: Table with authorization for administrative action pending receipt of the following items related to:

*Tracy
Pratt
AGC/10/15-0*

Stormwater Management

1. Verify and demonstrate that the public ditch system (Judicial Ditch #3/Clearwater Creek) and all crossings, including both the main stem and branches that pass through the site, are consistent with the original, as-built profile and hydraulic capacity.
- ~~2. Hydrologic information demonstrating timing of local peaks compared to regional peaks and verification that appropriate tailwater conditions have been simulated in the hydrologic/hydraulic modeling.~~
2. Additional incorporation of infiltration practices.
3. Explanation of pre-development and post-development time of concentrations (Tc) since post-development Tc's appear high.

Wetland Impacts

4. Signed and notarized WCA Deed Forms for Existing and Replacement Wetlands and Creek Corridor (District office will provide sample forms), and easement exhibit for review/verification of submitted deed descriptions.

Floodplain

5. Revised floodplain/compensatory storage quantification based on estimated floodplain of 909.9 – 910.0.

Administration

6. Revised preliminary plat or legal document with satisfactory form and description granting ponding and flowage easements over all on-site wetlands, ponds, and other hydrologic features.

- Stipulations:
1. The replacement wetland approved as part of this permit shall be constructed concurrent or prior to any wetland fill activity.
 2. The Declaration of Restrictions and Covenants for Replacement Wetland shall be properly filed and recorded prior to any wetland fill activity, with proof of recording furnished to the District.
 3. The permittee shall submit a monitoring report on the replacement wetland to RCWD which includes the information specified in Minnesota Rules 8420.0620 each year for five years following completion of the replacement wetland. The report shall be submitted no later than November 15 of each year.
 4. District Inspector to be contacted for preconstruction meeting prior to grading.
 5. This permit covers only rough grading work and land development for Phase I.
 6. Final floodplain alteration review by RCWD is contingent on FEMA reviews and approval.

- Exhibits:
1. Permit Application, dated November 8, 1999, received November 15, 1999.
 2. Wetland Replacement Plan prepared by Westwood Professional Services, Inc., dated February 23, 2001, received February 23, 2001.
 3. Wetland delineation report prepared by Arlig Environmental Inc., dated August 27, 1999, received November 12, 1999.
 4. Wetland Permit Application prepared by Westwood Professional Services, Inc., dated June 14, 2001, received June 14, 2001.
 5. Grading and Wetland Replacement Plan (2 sheets) prepared by Westwood Professional Services, Inc., undated, received March 5, 2001.
 6. Wetland Replacement / Creek Buffer Memorandum prepared by Westwood Professional Services, Inc., dated June 14, 2001, received June 14, 2001.
 7. Aerial photo of subject property prepared by Mark Hurd (date of photography: April 16, 1996), received November 12, 1999.
 8. Signed copy of MPCA NPDES permit application, dated June 11, 2001, received June 14, 2001.
 9. Wetland Replacement Plan comments prepared by Washington SWCD, dated March 29, 2001, received April 2, 2001.
 10. Response to Washington SWCD and BWSR wetland replacement plan comments prepared by Westwood Professional Services, Inc., dated May 14, 2001, received May 14, 2001.
 11. Rough Grading Request Memorandum prepared by Westwood Professional Services, Inc., dated June 14, 2001, received June 29, 2001.
 12. Rough Grading Plan (2 sheets) prepared by Westwood Professional Services, Inc., dated June 14, 2001, received June 14, 2001.
 13. Buffer Plan prepared by Westwood Professional Services, Inc., undated, received June 14, 2001.
 14. Site Earthwork Analysis (and supporting exhibits, 3 sheets) prepared by Westwood Professional Services, Inc., dated June 13, 2001, received June 14, 2001.

15. Floodplain Fill /Compensatory Storage Memorandum, Calculations, & Exhibits prepared by Westwood Professional Services, Inc., dated July 16, 2001, received July 16, 2001.
16. Construction Plan (sheets 1-24) prepared by Westwood Professional Services, Inc., dated August 17, 2001, received October 26, 2001.
17. Overall Grading, Drainage, & Erosion Control Plan prepared by Westwood Professional Services, Inc., dated August 9, 2001, received October 26, 2001.
18. Grading, Drainage, & Erosion Control Plans (sheets 2-9) prepared by Westwood Professional Services, Inc., dated August 9, 2001, received October 26, 2001.
19. Storm Water Runoff Calculations prepared by Westwood Professional Services, Inc., dated October 23, 2001, received October 26, 2001.
20. Status Letter for RCWD permit prepared by prepared by Westwood Professional Services, Inc., dated December 6, 2001, received December 6, 2001.
21. Legal Descriptions of Hydrological Features, undated, received December 6, 2001.
22. Geotechnical Evaluation Report prepared by Braun Intertec, dated August 3, 2001, received December 5, 2001.
23. Revised Overall Grading, Drainage, & Erosion Control Plan prepared by Westwood Professional Services, Inc., dated November 28, 2001, received December 5, 2001.
24. Revised Grading, Drainage, & Erosion Control Plans (Sheets 2-9) prepared by Westwood Professional Services, Inc., dated November 28, 2001, received December 5, 2001.
25. RCWD Infiltration Worksheet prepared by Westwood Professional Services, Inc., undated, received December 6, 2001.
26. Declaration of Restrictions and Covenants for Replacement Wetlands prepared by Westwood Professional Services, Inc., undated, received December 6, 2001.
27. \$5,000 cash surety received from contractor Property Developers Co. on July 3, 2001.

28. \$80,000 letter of credit received from applicant July 19, 2001.

- Findings: 1. Proposed project entails development of a 220± acre parcel which contains Clearwater Creek (JD3), Branch 4 of JD3, and two private laterals.

The Conceptual Development Plan specifies single family residential, multifamily residential and commercial development throughout the site.

Previously, the Applicant requested approval for a Wetland Alteration Plan for the entire 220± acre parcel and approval of a Rough Grading Plan for Phase I. The applicant is currently requesting approval of Phase I. Phase I entails an 82-lot single family residential development on roughly 40 acres.

2. Proposed Stormwater Management Plan for Phase I includes five detention basins (three of which are adjacent to Clearwater Creek).

It is unclear at this time if the project meets District rate control and water quality standards because the post-development time-of-concentrations appear high. Clarification of pre and post-development time-of-concentration calculations are required.

The proposed stormwater management plan does not adequately address the incorporation of infiltration practices.

Development of the area to the north of County Road 8 is not planned for under this phase of development. It appears that stormsewer infrastructure to be constructed in Phase I is not capable of serving this area in the future. It is recommended that Phase I planning should consider conveyance of runoff from this area.

3. The Wetland Delineation Report identifies 23 wetland basins of various type on site. The majority of the wetland area is riparian to Clearwater Creek (JD3) or Branch 4 of JD3.

Proposed wetland impact for the entire site includes 2.94 acres of fill and 0.39 acres of excavation. Total wetland replacement required to comply with WCA requirement of 2:1 replacement ratio is 6.66 acres.

Proposed Replacement Plan included 3.41 acres of new wetland credit in 7 mitigation basins, and 4.12 acres of public value credit (via ponding areas). Proposed replacement plan complies with WCA rules. PVC for ponding areas is acceptable for wetland

replacement since the plan was TWAFAA'd before the WCA rules were revised with respect to stormwater pond PCV.

4. Revised floodplain fill and compensatory storage calculations are required per the estimated (but not yet FEMA approved) elevation of 909.9-910.0. The final flood elevation is contingent on FEMA reviews and approval. Note that excavation below the flood elevation is compensatory storage only if above the normal water level of a pond and if there is a direct connection to the Clearwater Creek.

All proposed first floors satisfy District freeboard requirements.

5. Conceptual Development Plan for entire 220± acre parcel includes four crossings of Clearwater Creek and two crossing (foot-paths) of JD3, Branch 4.

Verification and demonstration that the public ditch system (Judicial Ditch #3/Clearwater Creek) and all crossings, including both the main stem and branches that pass through the site, are consistent with the original, as-built profile and hydraulic capacity is required. If any substantial corrections are needed, they must be documented and corrections coordinated with the RCWD and appropriate agencies.

The existing Elmcrest Avenue has a low point of approximately 907.6 (per City of Hugo HEC-RAS model) whereas the proposed new roadbed at the crossing has a low elevation of 911.17, approximately 3.5 feet higher. Under the various modeled floodplain calculations and the current City submittal to FEMA to amend the floodplain along Clearwater Creek in the city of Hugo, Elmcrest Avenue is shown to significantly overtop at the 907.6 elevation. Accordingly, the hydraulic behavior is that of a circular culvert at the bottom of the ditch with a high capacity overflow over the road above 907.6. The proposed higher road with only the existing culvert capacity being replaced could be a significant change and concern in the hydraulics and floodplain behavior of the area.

6. A satisfactory Erosion Control Plan has been submitted.
7. This permit was tabled on December 22, 1999 numerous wetland and stormwater issues. This permit was TWAFAA'd on March 22, 2000. Approval request was then changed to a Wetland Alteration Plan and a Rough Grading Plan for Phase I.

This permit was tabled on November 28, 2001 for several issues. The current approval request is for a Land Development Plan for Phase I.

Board Action:

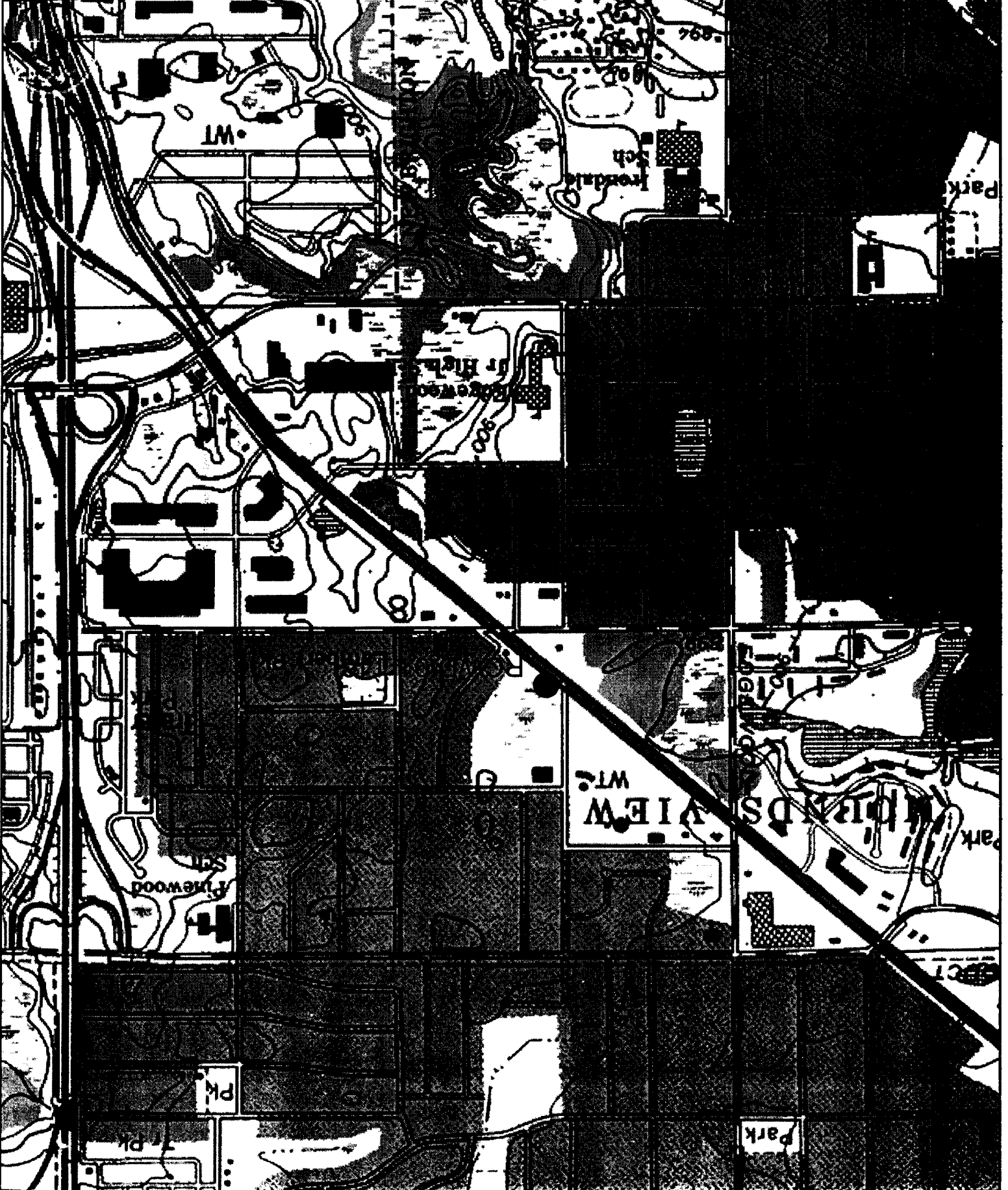
Name: NEW BRIGHTON
Date: 11/29/01
Scale: 1 inch equals 1000 feet

Location: 045° 06' 00.2" N 093° 12' 04.8" W
Caption: RCWD Permit Application 01-146

01-146

RCWD 01-146 - 045° 06' 07.3" N, 093° 12' 10.0" W

<Default> - 1 Markers, Length = 0 feet



Rice Creek Watershed District Permit Application Number

01-146

Applicant: Tom McCarver
Clear Channel Outdoor
3225 Spring Street NE
Minneapolis, MN 55413
Ph: 612 869-1900
Fx: 612 869-7082

Agent: Same as Applicant.

Purpose: Final Site Drainage Plan and Wetland Alteration Plan for replacement of a commercial sign.

Location: North of C.R. 10 and east of Edgewood Drive, Mounds View.

T-R-S: 30-23-8 bd

Recommendation: **Table with authorization for administrative action pending receipt of the following items related to:**

*Transferred
P10 5
ajc/gal 5-0*

Wetlands

1. Revised Site Plan identifying existing wetland boundary and proposed wetland impact area.
2. Field verification by District staff of wetland boundaries and quantified wetland impact.

Floodplain

3. Quantification of floodplain fill below elevation 902.0 (if any) and compensatory storage measures (if necessary).

Erosion Control

4. Erosion Control Plan indicating silt fence along un-impacted wetland areas and an implementation schedule.

Administration

5. Cash Surety in the amount of \$500.

Exhibits: 1. Permit Application, dated November 26, 2001, received November 28, 2001.

2. Site Improvement Plan (4 Sheets) prepared by INSITES, dated August 17, 2001, received November 28, 2001.
3. Project Description prepared by Tom McCarver, dated November 28, 2001, received November 28, 2001.
4. WCA Application for Certificate of No Loss or Exemption prepared by Tom McCarver, dated November 9, 2001, received November 28, 2001.

Findings:

1. Proposed project entails removal of an existing commercial sign and construction of a new commercial sign with impacts to a Type 3 wetland.
2. Rate control and water quality treatment will not be an issue as limited new impervious area is being created and runoff will remain as overland flow.
3. NWI maps indicate the presence of a Type 3 wetland on-site. The letter submitted indicates that 198 square feet of wetland will be filled. However, the quantity of fill is unclear based on the submitted plans. District inspector should verify existing wetland boundaries and that proposed fill is less than the 400 square feet WCA de minimis.
4. FEMA-FIS maps indicate that the 100-year flood elevation for the area is 902.0. Quantification of floodplain fill below elevation 902.0 (if any) and compensatory storage measures (if necessary) is required.
5. A revegetation plan has been submitted. An erosion control plan indicating silt fence along un-impacted wetland areas and an implementation schedule is required.

Board Action: