

OFFICIAL ENGINEER'S REPORT

RICE CREEK WATERSHED DISTRICT

RECEIVED
MAY 24 2001

CONSENT AGENDA

May 23, 2001

RICE CREEK
WATERSHED DISTRICT

It was moved by Cardinal and seconded by

Braathen 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

May 18, 2001:

- 99-29
- 01-28
- 01-45
- 01-46
- 01-47
- 01-48
- 01-50
- 01-51
- 01-52
- 01-53.

Carried 4-0.

T=10

RICE CREEK WATERSHED DISTRICT

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T=16

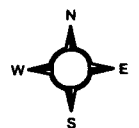
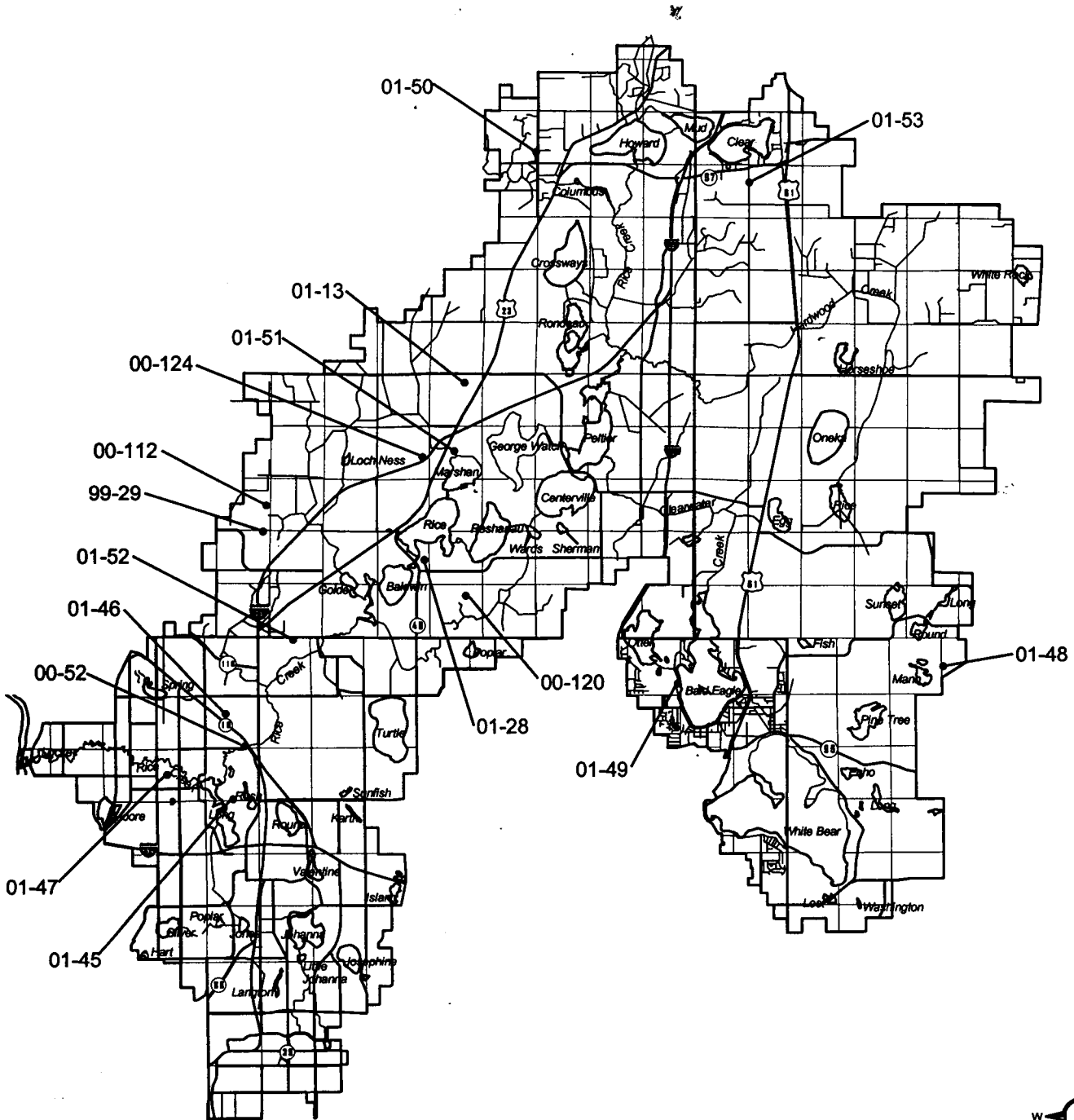
* To be presented

✓ PRESENTED

LAST REVISED 5/24/01 @ 10:00 AM

Rice Creek Watershed District

2001 Permits



1 0 1 2 Miles

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Rice Creek Watershed District Permit Application Number

99-29

Applicant: Kevin McGrath
Onyx Environmental
W124 N9451 Boundary Rd
Menomonee Falls, WI
53051
262-255-6655 (phone)
262-255-7990 (fax)

Agent: Chuck Plowe
Plowe Engineering, Inc.
9180 Lexington Ave. NE
Circle Pines, MN 55014
763-785-1043 (phone)
763-786-6007 (fax)

Purpose: Final Site Drainage Plan for an industrial building addition and paving of an existing gravel parking lot, 9.6± acres.

Location: 10050 Naples Street N.E., Blaine.

T-R-S: 31-23-27 aab

Recommendation: **Table with authorization for administrative action pending receipt of:**

1. Incorporation of infiltration practices. Items to be submitted include infiltration checklist with supporting documentation, worksheet, and effective pervious area map demonstrating compliance with District standard.
2. Revised Erosion Control Plan specifying riprap at storm sewer outfall.
3. Preliminary Plat or legal document with satisfactory form and description granting ponding and flowage easements over all new hydrologic features (required infiltration areas, if outside of existing easements).
4. Permit Application completed by new Applicant.
5. Cash surety in the amount of \$1,000.

- Exhibits:**
1. Permit Application, dated November 10, 1998, received February 19, 1999.
 2. Grading, Drainage, and Erosion Control Plan prepared by Plowe Engineering, Inc., dated May 10, 2001, received May 10, 2001.
 3. RCWD Permit Files 95-155 and 88-125.

- Findings:
1. Proposed project involves 0.98± acres of pavement over an existing gravel parking lot and construction of a 2,600 square foot building.

RCWD Permit 95-155 was issued for construction of an industrial building and pavement of a gravel parking lot on the eastern one-third of this site. RCWD Permit 88-125 was issued for an industrial building and bituminous parking lot on a northwest portion of this site.

2. Existing site runoff is routed to two on-site ponds linked in series which outlet to Anoka County Ditch 53-62. The ponds provide a dead storage volume of 6.7 acre-feet, 4.7 acre-feet in excess of District requirements. These ponds satisfy District rate and water quality treatment requirements for the existing and proposed development.
3. There is no known wetland impact associated with this project.
4. Plans do not address incorporation of infiltration practices.
5. The proposed first floor elevation of 907.3 is 4.7 feet above the on-site pond flood elevation of 902.6, thereby satisfying the District's 2-foot freeboard requirement.
6. A detailed Erosion Control Plan has been submitted specifying silt fence downstream of graded areas, revegetation specifications, and an implementation schedule.

A revised Erosion Control Plan is required specifying riprap at the storm sewer outfall.

7. A Preliminary Plat or legal document with satisfactory form and description granting ponding and flowage easements over all new hydrologic features (required infiltration areas, if outside of existing easements) is required.
8. This application was TWAFAA'd on March 24, 1999 for incorporation of infiltration practices. The applicant and site plan have since been changed.

Board Action:

Permit Application No. 00-52 Successful Bidder, City of Mounds View
(To be Selected)

- Exhibits:**
1. Permit Application, unsigned, undated, received April 13, 2000.
 2. Edgewood Junior High Regional Pond Construction Plans (Sheets 2 and 5-8 of 8) prepared by SEH, Inc., dated May 9, 2001, received May 10, 2001.
 3. Wetland Delineation Report prepared by SEH, Inc., dated September 2000, received May 10, 2001.
 4. Wetland Permit Application prepared by SEH, Inc., dated May 2001, received May 10, 2001.
 5. Existing and proposed hydrologic calculations prepared by SEH, Inc., dated May 9, 2001, received May 10, 2001.
 6. Existing and proposed P8 modeling output prepared by SEH, Inc., undated, received May 10, 2001.
 7. RCWD Permit Files 95-18, 89-25, 88-10, 86-65, 85-39, 78-21, 77-132, 75-29, and 75-56.
- Findings:**
1. The proposed project entails excavation of a regional pond within an existing wetland and upland area to serve an approximately 30± acre subwatershed. This highly developed subwatershed includes the Mermaid, Perkins, Edgewood Junior High School, and County Road H between County Road 10 and Edgewood Drive. This area ultimately discharges (with little to no treatment) to Rice Creek.
 2. The project narrative states that the regional pond is designed to treat stormwater runoff for the existing subwatershed and for the proposed Edgewood Junior High School and Mermaid expansions. The required dead storage for the 2.5-inch rainfall over the contributing area is 4.1 ac-ft, whereas the proposed pond provides only 3.7 ac-ft of dead storage.

This dead storage shortage seems reasonable considering that this is a retrofit project. However, the regional pond is also intended to serve future expansions at Edgewood Junior High School and the Mermaid. Therefore, it is recommended that dead storage satisfying District standards be provided or additional ponding be required for future redevelopment until the dead storage shortage (0.4 ac-ft) is provided.
 3. The Wetland Delineation report identifies a 0.69 acre Type II/III/VI wetland complex on site.

The proposed regional pond is to be excavated within the Type II/VI portions of the wetland while avoiding the Type III area. A total of 0.42 acres of wetland would be impacted mainly via excavation with a negligible amount of fill.

The excavation is not regulated by the WCA and the small amount of fill qualifies for the WCA de minimis exemption. The District wetland alteration rule is addressed considering that this wetland currently receives stormwater runoff and the proposed conditions would greatly increase the wetland's water quality functions and values.

4. The proposed 100-year elevation of the regional pond is 874.6. Identification of the pond emergency overflow elevation and surrounding structure(s) first floor elevations is required to verify compliance with District freeboard requirements.
5. An Erosion Control Plan has been submitted specifying silt fence around the Type III portion of the wetland, riprap at stormsewer outfalls, and revegetation measures. An implementation schedule is required.
6. RCWD Permit Files 95-18, 89-25, 88-10, 86-65, 85-39, 78-21, 77-132, 75-29, and 75-56 were reviewed for various Mermaid construction phases, Metropolitan Waste Control Commission maintenance buildings, land split of the site, and Perkins.
7. This permit was tabled on April 26, 2000 for 14 items regarding stormwater management and wetland impact.

Board Action:

Applicant: William Fogerty
F & W Properties
474 Apollo Dr, Suite 10
Lino Lakes, MN 55104
651-783-9786 (phone)
651-783-8970 (fax)

Agent: Foth & Van Dyke
The Waters Corporate Park
2900 Lone Oak Pkwy, Ste 125
Eagan, MN 55121
651-452-4396 (phone)
651-452-4347 (fax)

Purpose: Final Site Drainage Plan for a concrete batch plant, transfer station, and multiple use building to be known as Blaine Environmental Campus, resulting in 8± acres of new impervious area, 40± acres.

Location: 0.25 miles north of Wall Road and 1 mile west of I-35W, Blaine.

T-R-S: 31-23-22 da

Recommendation: **Table with authorization for administrative action** pending receipt of:

*MSP
APC/Jan 4-0*

1. Revised Grading Plan providing conveyance of stormwater runoff to ponding areas (before discharge to wetlands) from the multi-purpose building Naples Street frontage.
2. Identification of construction limits (including borrow areas).
3. Additional detail regarding proposed infiltration swales including the number and location of check dams, addition of check dam detail to Grading Plan, specification of depressed storage upstream of check dams equal to required infiltration volume, and revegetation specifications.
4. Clarification of Basin A outlet invert. Submitted detail shows a normal water elevation of 900.0, whereas the stormwater management narrative states that the normal pool is at an elevation of 904.0.
5. Legal document with satisfactory form and description granting ponding and flowage easements over all on-site wetlands, ponds, and other hydrologic features (including infiltration swales) and an easement exhibit graphically showing proposed legal description meets and bounds and starting points.

6. Revised Erosion Control Plan specifying silt fence downstream of grading areas and adjacent to Wetlands A, G, and H.
7. Copy of MPCA NPDES permit application.
8. Cash surety in the amount of \$3,500.

- Stipulations:
1. Construction Plans are to be submitted before project commencement to verify that final design is consistent with approved Grading Plan and that all runoff from impervious surfaces is directed to the NURP ponds.
 2. Proposed "future wetland mitigation area" and impact to any onsite wetlands is not authorized as part of this permit.

- Exhibits:
1. Permit Application, dated August 9, 2000, received August 10, 2000.
 2. Facility (Grading) Plan prepared by Foth & Van Dyke Consultants, dated May 2000, received May 10, 2001.
 3. Details sheet prepared by Foth & Van Dyke Consultants, dated May 2000, received May 10, 2001.
 4. Wetland Delineation Report prepared by Peterson Environmental Consultants, Inc., dated June 14, 2000, received July 25, 2000.
 5. Existing and proposed subwatershed area maps prepared by Foth & Van Dyke Consultants, dated May 2000, received May 10, 2001.
 6. Hydrologic calculations prepared by Foth & Van Dyke Consultants, dated May 7, 2001, received May 10, 2001.
 7. Pond storage calculations prepared by Foth & Van Dyke Consultants, dated May 7, 2001, received May 10, 2001.
 8. Infiltration narrative, worksheet, and calculation table prepared by Foth & Van Dyke Consultants, dated May 8, 2001, received May 10, 2001.
 9. Stormwater management summary memorandum prepared by Foth & Van Dyke Consultants, dated May 8, 2001, received May 10, 2001.

10. Copy of USDA soil map prepared by Peterson Environmental Consultants, Inc., undated, received August 10, 2000.
11. RCWD Permit 99-128.

Findings:

1. Proposed project entails construction of a concrete batch plant, municipal solid waste transfer station, and multi-purpose building with associated parking and drives resulting in 8± acres of new impervious area.
2. The Grading Plan identifies two NURP basins on site. These ponds are designed in accordance with the District's rate control and water quality treatment standards. However, the Grading Plan does not provide sufficient detail regarding conveyance of stormwater runoff to ponding areas (before discharge to wetlands) from the multi-purpose building Naples Street frontage.
3. The Wetland Delineation Report identifies eight wetland basins onsite. The scope of the project has been reduced from the original proposal and no longer proposes wetland impact.

The Grading Plan identifies an unspecified amount of "future wetland mitigation" around Wetland Basin A in the northeast corner of the site. Additional District review and permitting will be required at such time as this work is proposed.

4. Proposed plan attempts to address the District's infiltration standard via 700 linear feet of grassed swales with check dams upstream of the proposed NURP ponds. Additional detail regarding these swales is required including the number and location of check dams, addition of check dam detail to Grading Plan, specification of depressed storage upstream of check dams equal to required infiltration volume, and revegetation specifications.
5. The site is tributary to Anoka County Ditch 53-62 which ultimately drains to Golden Lake. The 100-year flood elevation for the site is 900.0 (1975 Blaine Comprehensive Storm Drainage Plan). There is a negligible amount of floodplain fill in the northeast corner of the development. This is compensated by NURP Basin B live storage.

The lowest proposed first floor elevation is 909.5, 3.0 feet above the highest NURP pond flood elevation (906.5), and 3.5 feet above the highest NURP pond emergency spillway elevation, thereby satisfying District freeboard requirements.

6. An Erosion Control Plan has been submitted specifying rock construction entrances, riprap at all storm sewer outfalls, an implementation schedule, and revegetation specifications. A revised Erosion Control Plan is required specifying silt fence downstream of grading areas.
7. A preliminary plat or legal document with satisfactory form and description granting ponding and flowage easements over all on-site ponds, wetlands, and other hydrologic features (including infiltration areas) is required.
8. RCWD Permit 99-128 was issued for Naples Street construction immediately east of the site.
9. This permit was tabled on August 23, 2000 for lack of complete application materials. This permit was TWAFed (but WITHDRAWN) on December 27, 2000. Applicant has since requested to reactivate this application.

Board Action:

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.

- Exhibits:
1. Permit Application, dated August 21, 2000, received September 12, 2000.
 2. Response to Engineer's Report memorandum prepared by Mattke Surveying and Engineering, dated September 23, 2000, received September 25, 2000.
 3. Preliminary Plat prepared by Mattke Surveying and Engineering, Inc., dated April 28, 2001, received May 10, 2001.
 4. Grading, Erosion Control, Utility, and Tree Protection Plan prepared by Mattke Surveying and Engineering, Inc., last revised May 3, 2001, received May 10, 2001.
 5. Wetland Mitigation Plan prepared by Mattke Surveying and Engineering, Inc., dated May 3, 2001, received May 10, 2001.
 6. Existing Drainage / Piezometer Location Plan prepared by Mattke Surveying and Engineering, Inc., last revised April 30, 2001, received April 30, 2001.
 7. West Shadow Ponds Option 1 prepared by Mattke Surveying and Engineering, Inc., dated September 6, 2000, received September 12, 2000.
 8. West Shadow Lake extension sketch plan prepared by Mattke Surveying and Engineering, Inc., dated September 17, 1998, received September 12, 2000.
 9. Preliminary Plat – Surrounding Areas prepared by Mattke Surveying and Engineering, Inc., dated October 12, 1998, received September 12, 2000.
 10. RCWD Infiltration Worksheet and Checklist prepared by Mattke Surveying and Engineering, Inc., undated, received September 12, 2000.
 11. Hydrologic calculations prepared by Mattke Surveying and Engineering, Inc., last revised April 28, 2001, received April 30, 2001.

12. Project description prepared by Mattke Surveying and Engineering, Inc., undated, received September 12, 2000.
13. Wetland Delineation Report prepared by the Anoka Conservation District, dated August 5, 1996, received September 12, 2000.
14. TEP Finding memorandum prepared by RCWD Staff dated and received October 26, 2000.
15. Response to TEP Findings memorandums prepared by Mattke Surveying and Engineering, Inc., dated March 12, 2001 and March 13, 2001, received March 14, 2001.
16. Wetland Functions and Values Assessment prepared by Kjolhaug Environmental Services Company, dated May 4, 2001, received May 4, 2001.
17. Response to April 3, 2001 Engineer's Report prepared by Mattke Engineering and Surveying, Inc., dated May 4, 2001, received May 4, 2001.
18. Off-site grading authorization letter prepared by Arnold Rehbein, dated and received May 21, 2001.

Findings:

1. Proposed project entails development of an existing 18.9± acre parcel with four structures into a 22-lot single family residential development served by 1,400± linear feet of roadway. The site is tributary to County Ditch 25 which ultimately discharges to Wards Lake.
2. Proposed plan includes excavation of two NURP ponds. Runoff from all roadways and residential frontages is routed to these ponds (which are designed in accordance with District rate control and water quality treatment requirements).
3. There are six on site wetlands covering approximately 45% of the parcel.

Proposed plan includes 2.15 acres of Type I/II/VII impact via fill for proposed roadway and house pads. In addition, the proposed plan includes a significant amount of wetland excavation (not WCA regulated) for creation of open water and borrow material. The TEP reviewed and has approved sequencing flexibility for the revised Grading Plan pending minor changes to the Wetland Replacement Area Grading Plan.

The Grading Plan specifies 3.8 acres of new wetland credit via excavation adjacent to unfilled wetlands, and 0.90 acres of upland buffer public value credit. This satisfies WCA requirements.

4. Proposed plan does not directly address incorporation of infiltration practices. However, considering the amount of excavation proposed for borrow material and wetland mitigation, the site provides a significant amount of potential depressed storage.
5. The existing 100-year flood elevation for the site is 891.7 (utilizing 24-inch CMP field road culvert as control for the site). The minimal amount of floodplain fill proposed is compensated for by excavation (wetland replacement areas) adjacent to existing wetland areas.

District first floor freeboard requirements will be verified after identification of the emergency overflow elevation for Wetland 4.

6. A revised Erosion Control Plan has been submitted specifying silt fence downstream of the proposed fill areas, revegetation specifications, a rock construction entrance, an implementation schedule, and riprap at stormsewer outfalls.
7. A Preliminary Plat with satisfactory form and description granting ponding and flowage easements over all on-site wetlands, ponds, and other hydrologic features has been submitted.
8. This permit was tabled on September 27, 2000 for 17 items.

Board Action:

Rice Creek Watershed District Permit Application Number

00-124

Applicant: James Wallenfelsz
Revocable Trust
1225 Willow Lake Blvd.
St. Paul, MN 55110
651-481-6860 (phone)
651-481-9834 (fax)

Agent: John Johnson
Metro Land Surveying
and Engineering, Inc.
412 East County Road D
Little Canada, MN 55117
651-766-0112 (phone)
651-766-0612 (fax)

Purpose: Final Site Drainage Plan for a 0.57± acre warehouse/office facility on Parcel D of the Apollo Business Center, 2.4± acres.

Location: Northwest of I-35W and south of Apollo Drive, Parcel D of the Apollo Business Center, Lino Lakes.

T-R-S: 31-22-18 dac

Recommendation: **Table with authorization for administrative action** pending receipt of:

*MSP
apj/gab 4-0*

1. Revised Erosion Control Plan specifying riprap at curb cuts.
2. Legal document with satisfactory form and description granting ponding and flowage easements over proposed infiltration area and grass swales or a maintenance agreement acceptable to District Attorney.

- Exhibits:**
1. Permit Application, dated September 13, 2000, received September 14, 2000.
 2. Sketch and Description Plan prepared by Metro Land Surveying and Engineering, Inc., dated October 12, 2000, received October 12, 2000.
 3. Grading Plan prepared by Metro Land Surveying and Engineering, Inc., last revised May 1, 2001, received May 9, 2001.
 4. Utility Plan prepared by Metro Land Surveying and Engineering, Inc., last revised May 1, 2001, received May 9, 2001.
 5. Hydrologic calculations prepared by J. C. Johnson Consultants, Inc., dated September 11, 2000, received September 14, 2000.

6. Easement Document prepared by Metro Land Surveying and Engineering, Inc., undated, received October 12, 2000.
7. RCWD Permit Files 00-99, 00-92, 00-91, 00-75, 99-163, 99-44, 95-118, and 92-178.
8. Cash surety in the amount of \$1,500, received from Interplastic Corporation on October 19, 2000.

Findings:

1. Proposed project entails a 0.57± acre warehouse/office facility and associated bituminous and parking on a 2.4± acre site within the Apollo Business Center.
2. The Stormwater Management Plan for the site was approved under RCWD Permit 00-92 (Apollo Business Center). All stormwater runoff from the site is routed via grass swales to an existing NURP pond northeast of the site. There are no known on-site wetlands.
3. Proposed plan addresses incorporation of infiltration practices via routing of all runoff as overland flow across grassed swales with a riprap check dam to detain water before discharge off-site to the existing NURP pond.
4. There is no local or regional floodplain on-site.
5. A revised Erosion Control Plan has been submitted specifying silt fence downstream of graded areas, a rock construction entrance, revegetation specifications, swale stabilization measures, and an implementation schedule.
6. A legal document with satisfactory form and description granting ponding and flowage easements over proposed infiltration and grass swale areas or a maintenance agreement acceptable to District Attorney is required.
7. RCWD Permits 00-99, 00-91, 99-163, 99-44, and 95-118 were reviewed for individual lot developments within the Apollo Business Center. RCWD Permits 00-75 and 92-178 were reviewed for rough grading and a preliminary Stormwater Management Plan for the overall Apollo Business Center.
8. This permit was TWAFAA'd on September 27, 2000 for issues regarding infiltration BMP's, erosion control, easements, and surety. The TWAFAA has since expired.

Board Action:

Applicant: Steven Schmitt
TSM Development
222 Monroe Street
Anoka, MN 55303
763-576-9121 (phone)
763-576-9122 (fax)

Agent: Troy Livgard
James R. Hill, Inc.
2500 W Co. Rd. 42
Burnsville, MN 55337
952-890-6044 (phone)
952-890-6244 (fax)

Purpose: Land Development Plan for a single-family residential development to be known as Highland Meadows West 3rd Addition, 70 lots, 34.7± acres.

Location: South of Main Street and West of Nancy Drive, Lino lakes.

T-R-S: 31-22-8 ab

Recommendation: **Table with authorization for administrative action** pending receipt of:

*MSP
ajr/gar 4-0*

1. Incorporation of infiltration BMPs providing compliance with District standard. This might be accomplished by modifying NURP pond grading to provide a NURP cell (pretreatment) and a shallower downstream infiltration cell.
2. Clarification of Pond 130 design (Grading Plan and hydrologic calculations do not correspond).
3. Hydrologic sustainability analysis of Wetland 1 (considering reduced drainage area and Pond 120 outlet invert).
4. Identification of first floor elevations for lot 11, block 1; lots 6 and 17, block 2; and lot 1, block 3 and revised stormwater management plan (if necessary) satisfying District first floor freeboard requirements for these lots and for lots surrounding Pond 130.
5. Revised Grading Plan providing reference to skimming outlet detail for Ponds 130 and 140 and riprap at Pond 140 stormsewer outfall.
6. Field verification by Anoka Conservation District of wetland boundaries.

7. Revised Preliminary Plat with satisfactory form and description granting ponding and flowage easements over all hydrologic features (including wetland areas on lots 20 and 21, block 2 and any incorporated infiltration practices).
8. Cash surety in the amount of \$10,000.

- Exhibits:
1. Permit Application, dated February 2, 2001, received February 14, 2001.
 2. Response to February 23, 2001 Engineer's Report prepared by James R. Hill, Inc., dated March 15, 2001, received March 15, 2001.
 3. Title Sheet prepared by James R. Hill, Inc., last revised May 9, 2001, received May 10, 2001.
 4. Existing Conditions Plan prepared by James R. Hill, Inc., dated February 12, 2001, received May 10, 2001.
 5. Preliminary Plat prepared by James R. Hill, Inc., last revised May 9, 2001, received May 10, 2001.
 6. Preliminary Grading Plan prepared by James R. Hill, Inc., last revised May 9, 2001, received May 10, 2001.
 7. Erosion Control Plan prepared by James R. Hill, Inc., last revised May 9, 2001, received May 10, 2001.
 8. Existing Drainage Map prepared by James R. Hill, Inc., last revised May 9, 2001, received May 10, 2001.
 9. Proposed Drainage Map prepared by James R. Hill, Inc., last revised May 9, 2001, received May 10, 2001.
 10. Details and Notes sheet prepared by James R. Hill, Inc., dated May 10, 2001, received May 10, 2001.
 11. Drainage summary prepared by James R. Hill, Inc., dated May 10, 2001, received May 10, 2001.
 12. Existing and proposed 2-year and 100-year hydrologic calculations prepared by James R. Hill, Inc., dated May 10, 2001, received May 10, 2001.

13. NURP pond design calculations prepared by James R. Hill, Inc., dated May 10, 2001, received May 10, 2001.
14. Copy of MPCA NPDES Permit Application, dated February 5, 2001, received March 15, 2001.
15. Wetland Delineation Report prepared by Kjolhaug Environmental Services Company, dated May 14, 2001, received May 14, 2001.
16. RCWD Permit Files 99-89, 98-25, and 87-44.

Findings:

1. The project involves construction of a single-family residential development on an existing 34.7 acre parcel with seven existing homes and/or structures. This project is the third addition of Highland Meadows West. The first and second additions were reviewed under RCWD Permit 98-25 which is located immediately south of this site.
2. The proposed storm water management plan includes three NURP basins designed in accordance with District rate control and water quality treatment standards. The site is ultimately tributary to Marshan Lake via County Ditch 10-22-32.
3. The Wetland Delineation Report identifies two Type 1 Wetlands onsite. There is no proposed impact to these wetlands via fill. However, the sustainability of Wetland 1 is questionable considering the proposed reduction in subwatershed area and the invert of Pond 120.
4. Proposed plan does not adequately address incorporation of infiltration BMPs. Given that the Anoka County Soil survey identifies all existing soils as Type A, it would seem feasible to modify NURP ponds to further promote infiltration.
5. There is no FEMA-FIS flood elevation determined for this site. District first floor freeboard requirements appear to be satisfied over all NURP pond 100-year and emergency overflow elevations. However, identification of first floor for existing homes adjacent to proposed ponds and clarification of Pond 130 100-year elevation is required to verify compliance with freeboard requirements.
6. A revised Erosion Control Plan has been submitted specifying silt fence downstream of graded areas, riprap at all storm sewer outfalls, revegetation specifications, an implementation schedule, and a rock construction entrance.

7. A revised preliminary plat is required with satisfactory form and description granting ponding and flowage easements over all on site hydrologic features (including wetland areas on lots 20 and 21, block 2 and any incorporated infiltration practices).
8. RCWD Permit 99-89 was issued for Highland Meadows East, southeast of the site. RCWD Permit 87-44 was issued for Twilight Acres immediately east of the site.
9. This Permit was tabled on February 28, 2001 for eighteen issues. The site plan has significantly changed to avoid wetland impact.

Board Action:

Rice Creek Watershed District Permit Application Number**01-28**

Applicant: Rockne Goertz
Spirit Hills, Inc.
P.O. Box 190
North Branch, MN 55056
612-363-3730 (phone)
651-674-2194 (fax)

Agent: William McCully
Glenn Rehbein Companies
8651 Naples Street NE
Blaine, MN 55449
763-784-0657 (phone)
763-784-6001 (fax)

Purpose: Land Development Plan and Wetland Alteration Plan for a single family residential development riparian Rice Lake to be known as Spirit Hills, 52 lots, 35.7± acres.

Location: North of Birch Street and east of Highway 49, Lino Lakes.

T-R-S: 31-22-30 da and ad

Recommendation: **Table with authorization for administrative action** pending receipt of:

1. Revised proposed hydrologic calculations for the 2- and 100-year events and pond dead storage calculations per the new Grading Plan.
2. 100-year proposed hydrologic calculations with pond starting water elevations equal to pond outlet elevations for estimation of conservative flood elevations and revised plan (if necessary) complying with alternative low floor / low entry freeboard requirements.
3. Revised Wetland Replacement / Banking Plan Application per new Grading Plan.
4. Copy of ditch profile for verification that existing wetland runout elevation is 889.2.
5. Modification (to comply with WCA requirements) and acceptance by the City of Lino Lakes or Homeowner's Association (as a formal agreement with RCWD) of the Pond Construction, Monitoring, Operation and Maintenance Plan (if stormwater management features are to be utilized as public value mitigation credits).
6. Field verification by District staff of wetland boundaries.

7. Completion of WCA 30-day comment period.
8. Proof of Title and signed/notarized WCA Deed Forms for Replacement Wetlands.
9. Revised Preliminary Plat with satisfactory form and description granting ponding and flowage easements over all hydrologic features per the new Grading Plan.
10. Cash surety in the amount of \$12,500.

- 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. Development of "Neighborhood Business" Outlot is not approved as part of this Permit and will require additional District review and permitting.

- Exhibits:
1. Permit Application, undated, received March 14, 2001.
 2. Preliminary Plat prepared by Glenn Rehbein Companies, dated April 5, 2001, received April 11, 2001.
 3. Final Grading and Drainage Plan (2 sheets) prepared by Glenn Rehbein Companies, dated April 27, 2001, received April 30, 2001.

4. Wetland Replacement & Soil and Erosion Control & Tree Preservation Plan prepared by Glenn Rehbein Companies, last revised April 30, 2001, received April 30, 2001.
5. Preliminary Sanitary Sewer and Watermain Plan prepared by Glenn Rehbein Companies, dated March 11, 2001, received March 14, 2001.
6. Notes and Details Sheet prepared by Glenn Rehbein Companies, last revised March 28, 2001, received March 28, 2001.
7. Wetland Delineation Report prepared by Earth Science Associates, Inc., dated November 2000, received March 14, 2001.
8. Local-State-Federal Water Resource Project Notification/ Application Form prepared by Glenn Rehbein Companies, dated March 14, 2001, received March 14, 2001.
9. Minnesota WCA Sequencing Narrative prepared by Glenn Rehbein Companies, dated March 26, 2001, received March 26, 2001.
10. Minnesota WCA Wetland Replacement Plan Application prepared by Glenn Rehbein Companies, dated March 13, 2001, received March 14, 2001.
11. Subsurface Geotechnical Assessment prepared by Interstate Geotechnical Engineering, Inc., dated March 19, 2001, received March 28, 2001.
12. Construction, Monitoring, Operation and Maintenance Plan for Infiltration Basins prepared by Glenn Rehbein Companies, undated, received March 30, 2001.
13. Copy of MPCA NPDES permit application dated March 14, 2001, received March 14, 2001.

Findings:

1. Proposed project entails a 52 lot single family residential development on an existing 35.7± acre parcel tributary to Rice Lake.
2. Proposed plan includes excavation of 4 stormwater management basins. It is unclear if these basins satisfy District rate control, water quality treatment, or infiltration standards. Revised hydrologic calculations per the new Grading Plan are required.

3. The Wetland Delineation Report and Grading Plan identify four wetland areas on-site. These basins are identified as Type II, VI, and VII wetland. Proposed impact includes 0.04 acres of Type II wetland fill. Applicant has provided sequencing narrative complying with Minnesota Rules Chapter 8420.0520.

Proposed Wetland Replacement Plan includes 0.56 acres of Type II New Wetland Credit scattered throughout the site. This satisfies WCA replacement requirements.

However, applicant is proposing to bank excess new wetland credits as well as public value credits (PVC) for stormwater management areas. As currently proposed, this is not acceptable since WCA regulations only allow credit for PVC if the local government unit (City of Lino Lakes) has adopted, implemented, and funded a stormwater management plan that provides for the removal of sediments whenever the phosphorus removal efficiency drops below 50 percent efficiency based on actual water quality monitoring data, calibrated modeling, or physical measurements of the pond volume.

4. The 100-year flood elevation of Rice Lake is 886.0 (1998 Calibration Study). Proposed plan includes 106 cubic yard of fill below this elevation in the northwest corner of the site. This fill is compensated for via 332 cubic yards of excavation below 886.0, in the southern half of the site.
5. The lowest proposed first floor elevation is 889.0, 3.0 feet above Rice Lake flood elevation thereby satisfying District regional flood elevation freeboard requirements.

District 2-foot freeboard requirements over pond and wetland 100-year elevations will be verified after submission of revised hydrologic calculations per the new Grading Plan.

In addition, revised 100-year hydrologic calculations with pond starting water elevations equal to pond outlet elevations for estimation of conservative flood elevations and revised plan (if necessary) complying with alternative low floor / low entry buffer requirements are required.

6. A revised erosion and sediment control plan has been submitted specifying silt fence downstream of graded areas and between upland and wetland creation areas, a rock construction entrance, riprap at all stormsewer outfalls, revegetation specifications, and an implementation schedule.

7. A revised preliminary plat with satisfactory form and description granting ponding and flowage easements over all onsite hydrologic features (per the new Grading Plan) is required.
8. This permit application was tabled on March 28, 2001 for 19 items. This permit was TWAFAA'd on April 11, 2001 for seven issues. The proposed plan has since been significantly revised.

Board Action:

5. A cash surety is not required since work is to be completed by the Ramsey County Parks Department.

Board Action:

4. Project Location maps prepared by SEH, Inc., undated, received March 2, 2001.
5. Existing Conditions Plan received March 2, 2001.
6. Cost-Share Recommendation memorandum prepared by EOR, Inc., dated April 5, 2001.
7. RCWD Permit Files 00-64 and 97-159.

Findings:

1. The City of Mounds View has proposed reconstruction of its Community Center pond. The pond is located in a 50± acre subwatershed that currently does not receive any water quality treatment (except for the Community Center tributary to the existing pond) and is tributary to both Long Lake and Rice Creek.
2. As part of this project, the City is attempting to maximize the land that it now owns. The existing pond constructed as part of the Community Center expansion (Bel Rae Ballroom, RCWD Permit 97-159) is designed in accordance with District rate control and water quality treatment (0.36 ac-ft dead storage) requirements for the approved expansion area.

The main elements of the proposed pond retrofit include expansion of the pond to provide 1.5 ac-ft of dead storage and 3.2 ac-ft of live storage and diversion of a storm sewer system that currently bypasses the existing pond to the expanded pond for treatment.

3. The estimated **existing** removal efficiency (assessed for entire 50± acre subwatershed) for Total Suspended Solids (TSS) and Total Phosphorus (TP) is 10% and 6%, respectively. The estimated **proposed** removal efficiency for TSS and TP is 75% and 46%, respectively. This increase in removal efficiency demonstrates a definite nutrient load reduction for discharges to Long Lake and Rice Creek.
4. The City is requesting that the District contribute 75% of the project's water quality BMP associated costs. This is consistent with the guidelines for the District's Municipal Retrofit Stormwater Quality BMP cost-share program.

At the April 11, 2001 Board meeting, EOR recommended and the Board approved District cost-share with the City of Mounds View for the Community Center Pond Retrofit Project in an amount not to exceed \$24,980.

5. Hydrologic calculations for this project were submitted under RCWD Permit 00-64 (Walgreen's Development southwest of this site).

Board Action:

Applicant: Successful Bidder (TBS) **Agent:** Same as Applicant
Les Proper
City of New Brighton
803 Old Highway 8 NW
New Brighton, MN 55112
651-638-2053 (phone)
651-638-2044 (fax)

Purpose: Street and Utility Plan for 3.3± miles of street reconstruction within the City of New Brighton.

Location:

Stinson Blvd	from	Rice Creek Terrace	to	Mississippi St
Pleasant View	from	Rice Creek Terrace	to	Mississippi St
Walnut Avenue	from	Rice Creek Terrace	to	Mississippi St
Walnut Court N	from	Walnut Avenue	to	cul-de-sac
Walnut Court S	from	Walnut Avenue	to	cul-de-sac
Leona Drive	from	Rice Creek Terrace	to	Mississippi St
26 th Avenue NW	from	Rice Creek Terrace	to	Mississippi St
22 nd Terrace	from	26 th Avenue NW	to	cul-de-sac
Rice Creek Terrace	from	Stinson Blvd	to	cul-de-sac
Mississippi St	from	Stinson Blvd	to	cul-de-sac
Pleasant View	from	21 st Lane	to	Rice Creek Rd
Walnut Avenue	from	Pleasant View	to	Rice Creek Rd
29 th Avenue NW	from	Mississippi St	to	Rice Creek Rd
21 st Lane	from	29 th Avenue NW	to	cul-de-sac
Spring Creek Dr	from	County Road H	to	cul-de-sac

T-R-S: 30-23-17 c
30-23-18 a, b, c, d

Recommendation: Table with authorization for administrative action pending receipt of:

1. Additional assessment of potential for incorporation of water quality/infiltration retrofit BMPs.
2. Permit Application signed by Successful Bidder.
3. Cash surety in the amount of \$10,000.

Stipulations: District Inspector is to be contacted for a pre-construction meeting to finalize erosion control measures.

- Exhibits:
1. Permit Application unsigned, undated, received April 27, 2001.
 2. Street Reconstruction Plans prepared by City of New Brighton Engineering Department, dated April 18, 2001, received April 27, 2001.
 3. Street Reconstruction Specifications prepared by City of New Brighton Engineering Department, dated April 18, 2001, received April 27, 2001.
 4. Supplemental project narrative and Erosion Control Plan prepared by City of New Brighton Engineering Department, dated May 21, 2001, received May 23, 2001.

- Findings:
1. Proposed project entails street reconstruction along 3.3± miles of roadway as listed above in the Location. Proposed reconstruction includes surface removal, grading, aggregate base, bituminous surfacing, concrete curb and gutter, storm sewer repair, and sanitary sewer and watermain system improvements.

Of these roadways, Rice Creek Terrace and Mississippi Street are riparian to Rice Creek and/or Long Lake.

2. According to the City of New Brighton's May 2000 Surface Water Management Plan, the majority of these roadways are within no detention areas or directly flow to Rice Creek or Long Lake. Pleasant View Drive, Walnut Avenue, and 21st Lane south of Mississippi Street discharge west to an existing NURP detention basin. Stinson Boulevard discharges west to a dry detention basin.

All proposed road widths are 28 feet except for Mississippi Street, which will vary from 32 to 38 feet wide with a walking path along some segments of the roadway.

3. Rate control is not an issue since proposed roadways are maintained at existing widths or reduced in width. The proposed plan does not adequately address incorporation of water quality or infiltration BMPs.

However, this area is highly developed and retrofit opportunities are limited at best. Nevertheless, additional assessment of the potential for incorporation of water quality/infiltration retrofit BMPs is required.

4. The proposed reconstruction includes the Mississippi Street-Rice Creek Crossing. There are no proposed modifications to the three arch culverts serving Rice Creek under Mississippi Street. A 6-inch water main will be jacked under these existing arch culverts.
5. A detailed Erosion Control Plan for all work adjacent to Rice Creek has been submitted including temporary catchbasin inlet sediment protection until roadways are repaved, silt fence at critical areas, and construction phasing.

Board Action:

Applicant: Randy Stockman Agent: Same as Applicant
11696 Irish Avenue North
Stillwater, MN 55082
651-653-8697 (phone)
651-407-6291 (fax)

Purpose: Wetland Alteration Plan and Private Drainage System Plan for sediment removal from a wetland and field road culvert replacement.

Location: 11696 Irish Avenue North, Grant.

T-R-S: 30-21-3 bccc

Recommendation: **Table with authorization for administrative action** pending receipt of:

1. Field verification by District Staff of satisfactory spoil disposal location.
2. Identification of existing specifications including; culvert type, exact diameter, upstream invert elevation, and overflow elevation (low point of field road).
3. Specification of proposed culvert to be hydraulically equivalent and set at the existing culvert upstream invert elevation and maintaining the existing overflow elevation.
4. Erosion and sediment control plan specifying wetland and spoil revegetation measures.
5. Cash surety in the amount of \$500.

- Exhibits:
1. Permit Application dated May 10, 2001, received May 10, 2001.
 2. Project narrative prepared by applicant dated May 3, 2001, received May 10, 2001.
 3. Location map prepared by applicant, undated, received May 10, 2001.
 4. Site Plan prepared by applicant, undated, received May 10, 2001.
 5. RCWD Permits 95-08, 94-181, and 93-57.

Findings:

1. Proposed project entails excavation of an unspecified amount of sediment from a Type 7 (NWI) wetland and replacement of a field road culvert. The site is ultimately tributary to Mann Lake, approximately 1,000 feet to the west.
2. The Wetland Conservation Act does not regulate the proposed wetland excavation. The project narrative specifies placement of spoils outside the existing wetland/drainage easement. However, the submitted site plan does not identify spoil location(s). Field verification by District Staff of satisfactory spoil location(s) is required.
3. The Project narrative states that the existing field road culvert is approximately 12 inches and is to be replaced with a 12-inch galvanized steel culvert. Identification of existing culvert type and exact diameter is required to verify that proposed replacement is hydraulically equivalent.
4. The proposed plan does not address erosion and sediment control measures.
5. RCWD Permits 95-08, 94-181, and 93-57 were reviewed for various phases of Mann Lake Estates surrounding this site.

Board Action:

2. Rate control and water quality treatment will not be an issue as limited new impervious area is being created and all runoff will remain as overland flow across turfed areas prior to entering Bald Eagle Lake.
3. The Wetland Delineation Report does not indicate the presence of wetlands onsite.
4. The flood elevation for Bald Eagle Lake is 913.0 (1998 calibration and study). It appears that approximately 50% of the proposed work is below the flood elevation of Bald Eagle Lake. Quantification of floodplain fill and compensatory storage measures below elevation 913.0 is required.
5. The NWL of Bald Eagle Lake is 911.0. It appears that a portion of the proposed landscaping is below this elevation. A copy of MnDNR permit(s) is required, if this work is below elevation 911.0.
6. The proposed plan does not adequately address erosion and sediment control measures. At a minimum, revegetation specification and implementation schedule should be provided.

Board Action:

4. The 100-year flood elevation for the site is 900.9 (ACD 46 at Kettle Lake Boulevard, 1998 Calibration Study). Specification of the building first floor elevation to be at least 902.9 is required.
5. The proposed building setback is greater than 50 feet from the centerline of ACD 46, thereby satisfying District setback requirements.
6. The proposed plan does not adequately address erosion and sediment control measures.

Board Action:

Applicant: Joachim Poetschke Agent: Same as Applicant
7394 Lake Drive
Lino Lakes, MN 55014
651-310-8273 (phone)

Purpose: "After-the-fact" Wetland Alteration Plan for removal of unauthorized obstructions (foot bridge and various other materials) in Anoka County Ditch 10-22-32.

Location: 7394 Lake Drive, Lino Lakes.

T-R-S: 31-23-17 caaa

Recommendation: **Table with authorization for administrative action** pending receipt of:

1. Onsite meeting with District Staff regarding acceptable restoration/erosion control measures.
2. Site Restoration Plan, narrative, and schedule per Pending Item No. 1.
3. Cash surety in the amount of \$1,000.

- Exhibits:
1. Permit Application dated May 9, 2001, received May 10, 2001.
 2. Location map prepared by applicant, undated, received May 10, 2001.
 3. Violation Notice prepared by RCWD Staff dated April 19, 2001.
 4. RCWD Permit 94-96.

- Findings:
1. An adjacent landowner informed the District that the applicant had placed concrete rubble and a footbridge in Anoka County Ditch 10-22-32 partially obstructing flow. Subject site is approximately 300 feet upstream of Marshan Lake.
 2. The District issued a Violation Notice on April 19, 2001 outlining the options of A) fully restoring the area to its original condition by removing all materials and restabilizing the channel, or B) applying for an "after-the-fact" permit which may or may not allow for portions of the alterations to be retained.

The permit application narrative states that the footbridge has been removed from the ditch and that the applicant requests to meet onsite with the District Inspector to discuss restoration requirements. It is recommended that District Staff meet with the applicant on site to outline an acceptable restoration/erosion control plan.

3. The cash surety value is based upon construction within the ditch system, potential impact of downstream Marshan Lake, and the "after-the-fact" nature of this permit as well as a previous "after-the-fact" permit obtained by the applicant for (wetland) excavation of a private lateral to ACD 10-22-32 (RCWD Permit 94-96).

Board Action:

Applicant: Wells Fargo Properties, Inc. Agent: John Krausert
6th and Marquette Rehder & Associates, Inc.
(N 9035-195MAC) 3304 Federal Drive, Ste 240
Minneapolis, MN 55479 Eagan, MN 55122
612-667-5979 (phone) 651-452-5051 (phone)
612-667-5124 (fax) 651-452-9797 (fax)

Purpose: Final Site Drainage Plan for a 5.4± acre building and 20± acres of bituminous parking, drives, and walkways within the Rice Creek Corporate Park, 36.3 ± acres.

Location: South of Country Road J and 1,000 feet east of 35W, Shoreview.

T-R-S: 30-23-4 ab and ba

Recommendation: **Table** pending receipt of:

1. Revised Stormwater Management Plan complying with District rate control and water quality treatment requirements (as approved under RCWD Permit 99-45).
2. Revised Grading Plan complying with the Wetland Replacement Plan approved under RCWD Permit 99-45.
3. Revised Grading Plan incorporating infiltration BMPs or acceptable alternatives as approved under RCWD Permit 99-45.
4. Revised Plan providing stormwater runoff treatment (per NURP standards) prior to discharge to Wetland 4 (per RCWD Permit 99-45 this wetland was to receive runoff only from building rooftops).
5. Identification of 100-year and emergency overflow elevations of all on-site basins.
6. Revised Plan (if necessary) satisfying District first floor freeboard requirements over identified elevations in Pending Item Number 5.
7. Further review by District Staff of Erosion and Sediment Control Plan.

8. Preliminary plat or legal document with satisfactory form and description granting ponding and flowage easements over all on-site hydrologic features not currently within easement.
9. Copy of MPCA NPDES permit application.
10. Cash surety in an amount to be determined.

Exhibits:

1. Permit Application, dated May 10, 2001, received May 10, 2001.
2. Grading, Drainage, and Erosion Control Plan (2 sheets) prepared by Rehder & Associates, Inc., dated May 10, 2001, received May 10, 2001.
3. Infiltration worksheet, supporting calculations, and infiltration area map, prepared by Rehder & Associates, Inc., dated May 9, 2001, received May 10, 2001.
4. C-Value calculations and stormsewer drainage area map prepared by Rehder & Associates, Inc., dated May 10, 2001, received May 10, 2001.
5. Stormsewer calculations prepared by Rehder & Associates, Inc., dated May 10, 2001, received May 10, 2001.
6. RCWD Permits 00-41, 99-141, 99-125, 99-60 and 99-45.

Findings:

1. The proposed project entails a 5.4± acre building and 20± acres of associated bituminous parking, drives, and walkways in the northeast corner of the Rice Creek Corporate Park (RCWD Permit 99-45). The site is ultimately tributary to Rice Creek, upstream of County Road I.
2. The Stormwater Management Plan for this site was planned for and approved under RCWD Permit 99-45. This Plan included five NURP basins scattered throughout the site (2 of which were to be within this development). The submitted Grading Plan does not concur with the previously approved Grading Plan with respect to stormwater management.

NURP Pond C (per RCWD Permit 99-45) has been eliminated and NURP Pond D (per RCWD Permit 99-45) has been converted to an infiltration basin. NURP Pond C was to be designed with 3.8 acre-feet and 5.2 acre-feet of dead storage and live storage, respectively. NURP Pond D was to be constructed with 4.3 acre-feet and 6.8-acre feet of dead and live storage, respectively. A revised Stormwater

Management Plan complying with RCWD Permit 99-45 is required.

3. As delineated under RCWD Permit 99-45, there was four wetlands within this project area. Two of these basins in the northwest corner of the project area (Wetland Basin 1 and Wetland Basin 2) have been filled. Wetland Basins 3 and 4 are not impacted.

As approved under Permit 99-45, wetland replacement on this site was to include 1.13 acres of new wetland credit, 1.10 acres of NURP public value credit and 0.59 acres of buffer public value credit adjacent to Wetland 3. In addition, 0.67 acres of new wetland credit and 0.34 acres of buffer public value credit was to be created adjacent to Wetland 4. A revised Grading Plan is required complying with the overall Wetland Replacement Plan approved under RCWD Permit 99-45.

4. Submitted Plan attempts to address the District's infiltration standard via creation of two infiltration areas adjacent to unimpacted wetland areas. It does not appear that these will be effective infiltration BMPs considering that the basins are at or below the existing wetland boundaries.

As approved under RCWD Permit 99-45 an infiltration swale was to be graded along County Road J and an infiltration basin was to be graded at the northeast corner of the development area, which would overflow to Park View Drive stormsewer. The submitted Grading Plan does not identify these features.

5. Floodplain impact and compensatory storage provisions have been satisfactorily addressed for this site under RCWD Permit 99-45.
6. District first floor freeboard, erosion and sediment control, and easement requirements will be reviewed after submission of a Plan complying with District stormwater management, wetland replacement, and infiltration BMP requirements.
7. RCWD Permits 00-41, 99-141, 99-125 and 99-60 were reviewed for individual developments within the Rice Creek Corporate Park.

Board Action:

3. Construction Plans (25 sheets) prepared by BRA & Associates, undated, received May 10, 2001.
4. Existing, post-construction, and ultimate development hydrologic calculations for 2.3-inch, 2.5-inch and 5.9-inch rainfall events, prepared by BRA & Associates, dated May 10, 2001, received May 10, 2001.
5. RCWD Permit File 00-113.

Findings:

1. Proposed project entails street and utility construction of Fenway Avenue between 202nd Street and TH 97. This roadway is to be constructed as a 40-foot wide curb and gutter roadway. RCWD Permit 00-113 (Summerfields Phase I) is immediately west of this project.
2. It is unclear from submitted hydrologic calculations if proposed Stormwater Management Plan satisfies District rate control or water quality treatment requirements. Subwatershed boundary maps with model IDs for existing, proposed, and ultimate condition subwatersheds and ponds are required. In addition, clarification of the modeling effort with respect to the proposed and ultimate disposition of runoff is required.
3. NWI maps do not indicate the presence of wetlands within the project corridor.
4. Proposed Plan does not adequately address incorporation of infiltration BMPs.
5. An Erosion and Sediment Control Plan has been submitted specifying silt fence along downstream project boundaries, catchbasin inlet protection, and riprap at stormsewer outfalls. A revised Erosion Control Plan is required specifying a rock construction entrance, revegetation specifications, and an implementation schedule.

Board Action: