



**MEMORANDUM**  
Comfort Lake-Forest Lake Watershed District

Date: December 11, 2023  
To: CLFLWD Board of Managers  
From: Mike Kinney, District Administrator  
Subject: Permit 22-040 CSAH 33



**Background/Discussion**

The purpose of this agenda item is for managers to review, discuss, and consider approving permit number 22-040.

The proposed project is located on Everton Avenue (CSAH 33) from 19<sup>th</sup> Street to Broadway. The project will widen Everton along a half mile stretch while adding pedestrian facilities along the entire corridor. Rules 2.0, stormwater management, 3.0, erosion control, and 6.0, watercourse and basin crossings, were triggered.

Stormwater management is achieved through a stormwater pond, greenspace for infiltration, and three hydrodynamic separators. Sediment and erosion control requirements are met by a detailed SWPPP (Stormwater Pollution Prevention Plan) which includes silt fences, bilogs, inlet protection, revegetation plan, and an implementation schedule. A ditch crossing under Everton Ave that is being replaced triggered rule 6.0. The existing pipe will be replaced at the same size and inverts but at a longer length. This change has a negligible impact on pipe capacity, flood elevations, water quality, navigability, and fish and wildlife satisfying Rule 6.0 requirements.

**Recommended Motion**

Proposed Motion: Manager \_\_\_\_\_ moves to approve permit application #22-XXX with conditions stated in EOR's December 11, 2023, memorandum. Seconded by Manager \_\_\_\_\_.

**Attached**

Emmons & Olivier Resources' Memorandum  
Emmons & Olivier Resources' Exhibit

<b>Project</b>	CSAH 33 Improvements	<b>Date</b>	12-12-2023
<b>To</b>	Mike Kinney	<b>Contact Info</b>	CLFLWD
<b>Cc</b>	Board of Managers	<b>Contact Info</b>	CLFLWD
<b>From</b>	Greg D. Graske, P.E.	<b>Contact Info</b>	EOR
<b>Regarding</b>	Permit Application #22-040, City of Forest Lake		

**Applicant**

Washington County  
 Attn: Ryan Hoefs  
 11660 Myeron Road N  
 Stillwater, MN 55082  
 Phone: 6514304314  
 ryan.hoefs@co.washington.mn.us

**Authorized Agent**

None

**Project Purpose:** The proposed project will widen approximately 0.5 miles of Everton Avenue and add pedestrian facilities along the corridor. This project will add approximately 1.6 acres of impervious surface resulting in approximately 3.7 acres of total impervious area (for the portions of the project in CLFLWD).

**Project Location:** Everton Avenue (CSAH 33) from 19<sup>th</sup> Street to Broadway Avenue. The site drains to Comfort Lake.

**Applicable District Rules:** 1.0, 2.0, 3.0 & 6.0.

**Recommendation:** Approval, with issuance on receipt of the following:

1. Execution of a maintenance instrument satisfactory to the CLFLWD addressing the ongoing operation and maintenance of the proposed stormwater management facilities and the ditch culvert crossing. The proposed instrument shall be provided to the District for review prior to execution, and documentation of recording with the County must be provided before permit issuance **OR** execution of a Maintenance Agreement for Stormwater Management Facilities and Watercourse and Basin Crossings.

Stipulations of Permit:

1. Submittal of as-built survey for stormwater infrastructure.

**Rule 2.0: Stormwater Management**

The proposed project will widen Everton Avenue and add pedestrian facilities including a trail along the entire corridor. The project extends from 11<sup>th</sup> Avenue SW to Broadway Avenue. There is a drainage divide at 19<sup>th</sup> Street. South of 19<sup>th</sup> Street the stormwater flows to Rice Creek Watershed District and will be reviewed by Rice Creek Watershed District. This permit will apply to the area located in CLFLWD

(Everton Avenue from 19<sup>th</sup> Street to Broadway Avenue). Stormwater currently flows to adjacent wetlands and to the ditch system that crosses under Everton Avenue about 500-feet south of Broadway Avenue. Existing conditions include some minor treatment from existing swales and hydrodynamic separators.

In addition to the main roadway project and trail along Everton Avenue, a short trail connection along Broadway will be made to complete the connection to the trail at the intersection of 19<sup>th</sup> Street SW. This will result in about 500-feet of new trail and about 0.09 acres of impervious. Green space is incorporated between the trail and road to the extent feasible. Runoff that is not captured by the green space will ultimately make its way to stormwater pipes and an existing treatment pond that serves the Broadway corridor providing water quality treatment and rate attenuation. Any minor increase to rate or volume from this trail connection is negligible and the existing facilities will provide sediment removal to the maximum extent practicable.

Given the site's soils, proximity to wetlands and high groundwater, infiltration and filtration BMPs are not feasible. The project proposed to use a large Stormwater Pond (wet pond) for treatment. A small dry pond is also proposed for rate control (note - this will not count toward the volume requirements as the pond has no defined treatment volume). As part of the proposed stormwater pond on north side of the project, a new driveway alignment is proposed for the Menard's property. This provides for the construction of a large wet basin and helps to provide rate control and water quality treatment for the CLFLWD portion of the project. Stormwater that cannot be captured by this BMP will be routed to three hydrodynamic separators to provide sediment removal to the maximum extent practical.

For public linear projects, the treatment volume required is either 0.55 inches of runoff from all new and reconstructed impervious surfaces, or 1.1 inches of runoff from the net increase in impervious area, whichever is greater. The greater of these two calculations is 0.55 inches of runoff from all new and reconstructed impervious area resulting in a required treatment volume of 7,462 CF. Clay soils and proximity to the groundwater table make infiltration and filtration BMPs infeasible and therefore the conversion factor for Stormwater Pond (Wet Pond) is utilized. The volume conversion factor for stormwater ponds is 0.5; therefore, the required treatment volume is 14,924 CF. The proposed stormwater pond provides approximately 16,945 CF, therefore satisfying the District's volume control requirements. The pond is also sized to provide dead storage equal to the runoff from the 2.5 inch rainfall event.

The overall street drainage patterns for Everton Avenue will remain unchanged with this project. The street will remain curb and gutter as currently exists. The project has several discharge locations that are collected and discharge to the same wetland complex/drainage system. There is a small increase (about 1 CFS) in discharge at an outlet near the ditch crossing under Everton Avenue where it is not feasible to implement a rate control BMP, however there are offsetting reductions immediately upstream in the same wetland complex, therefore the rates through the system at that point will remain the essentially the same or slightly reduced and thereby satisfying District Rate Control requirements. A summary table of rates leaving the site is summarized below.

Rate Control Summary

Conditions	2-year	10-year	100-year
Existing (cfs)	14	32	67
Proposed (cfs)	14	32	63

The project will have negligible impact on water levels and wetland bounce therefore is in conformance with 2.3.4 bounce and inundation standards and 2.3.5 freeboard standards.

A Stormwater Pollution Prevention Plan (SWPPP) has been submitted indicating that the proposed BMPs will be implemented concurrently with the project.

### **Rule 3.0: Erosion Control**

Erosion control plans includes silt fence, biologs, inlet protection, revegetation specifications and an implementation schedule have been submitted. A detailed SWPPP has also been submitted. The proposed plans meet District erosion control requirements.

The District may require the installation of additional sediment control best management practices at a later time, if deemed necessary based on site conditions during construction.

### **Rule 4.0: Lake, Stream, and Wetland Buffer Requirements**

The proposed project does not trigger this rule; a subdivision was not proposed and no municipal rezoning or variance was required for this project.

### **Rule 5.0: Shoreline and Streambank Alterations**

The proposed project does not trigger this rule; a DNR general permit applicable to owners who hold a District permit is not in effect.

### **Rule 6.0: Watercourse and Basin Crossings**

The ditch crossing under Everton Avenue 500-feet south of Broadway Avenue will be replaced. The crossing will be replaced with the same upstream and downstream inverts and with the same size pipe (48-inch RCP). The new crossing will be longer due to the street cross-section and added trail. Calculations have been provided demonstrating that the added pipe length will have negligible impact on the pipe capacity and upstream flood elevations. The ditch crossing will retain adequate hydraulic capacity and will not adversely affect navigation capacity, water quality, or fish and wildlife. The ditch crossing satisfies the requirements of Rule 6.

### **Rule 7.0: Floodplain and Drainage Alterations**

The proposed project does not trigger this rule; the City of Forest Lake has a state-approved floodplain ordinance.

### **Rule 8.0: Wetland Management**

The proposed project does not trigger this rule; the District is not the LGU for wetland impacts.

### **Rule 9.0: Fees**

The proposed project does not trigger this rule, government agencies are exempt.

**Rule 10.0: Financial Assurances**

The proposed project does not trigger this rule; pursuant to District policy, financial assurances are not requested from government agencies.

**Rule 11.0: Variances**

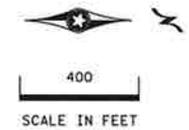
The proposed project does not require a variance.

**Submittals Received**

The following submittals were received and reviewed as the basis for this permit application review:

1. Application, received October 27, 2022, prepared October 27, 2022 prepared by Applicant.
2. Stormwater Design Report, received November 15, 2023, dated October 4, 2023, prepared by Alliant Engineering, Inc.
3. Plan Set (272 sheets), received November 15, 2023, dated October 4, 2023, prepared by Alliant Engineering, Inc.
4. Geotechnical Evaluation Report, received November 15, 2023, dated October 7, 2021, prepared by Braun Intertec.

SHEET TITLE	SHEET VIEW																					
	1	2	3	4	5	6	7	8	9	15	16	16	17	17	18	18	19	19	20	20	23	24
INPLACE UTILITY PLAN	PLAN SHEET NO. 16	17	17	18	18	19	19	20	20	23	24											
INPLACE TOPOGRAPHY & REMOVAL PLAN	PLAN SHEET NO. 79	80	80	81	81	82	82	83	83	86	87											
ALIGNMENT PLAN & TABULATION	PLAN SHEET NO. 89	90	90	91	91	92	92	93	93	96	97											
CONSTRUCTION PLAN & PROFILE	PLAN SHEET NO. 99	100	101	102	103	104	105	106	107	110	111											
DRAINAGE PLAN & PROFILE	PLAN SHEET NO. 121	122	123	124	125	126	127	128	129		130											
EROSION CONTROL & TURF ESTABLISHMENT PLAN	PLAN SHEET NO. 137	138	138	139	139	140	140	141	141	142	143											
PERMANENT PAVEMENT MARKING & SIGNING PLAN	PLAN SHEET NO. 163	164	165	166	167	168	169	170	171	177	178											
SANITARY SEWER & WATERMAIN PLANS	PLAN SHEET NO. 255	255	256	256	257	257	258	258	259		259											
STREET LIGHTING PLANS	PLAN SHEET NO. 267	267	268	268	269	269	270	270	271		271											



BEGIN SAP 082-632-001  
 BEGIN SAP 214-020-005  
 CSAH 32 TRAIL STA 35+16.42

BEGIN SAP 082-633-003  
 BEGIN SAP 214-020-003  
 CSAH 33 STA 501+46.19

END SAP 082-632-001  
 END SAP 214-020-005  
 CSAH 32 TRAIL STA 38+95.73

END SAP 082-633-003  
 END SAP 214-020-003  
 CSAH 33 STA 542+64.22

END SAP 082-602-025  
 END SAP 214-020-004  
 CSAH 2 STA 144+44.87

**DITCH CROSSING**  
**WET POND**

**DAY POND**

**BROADWAY**  
 (BROADWAY AVE)

**22-040**

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NO	DATE	BY	CHKD	REVISIONS



I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: RYAN SHORE  
 SIGNATURE: *[Signature]*  
 DATE: 10/04/2023 LICENSE # 58187

GENERAL LAYOUT  
 S.A.P. 082-633-003 / S.A.P. 082-632-001 / S.A.P. 082-602-025  
 S.A.P. 214-020-003 / S.A.P. 214-020-004 / S.A.P. 214-020-005

WASHINGTON COUNTY CSAH 33  
 SHEET NO. 2 OF 191 SHEETS