



Legislation Details (With Text)

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File created: 4/22/2020 **In control:** Board of Trustees

On agenda: 5/4/2020 **Final action:** 5/4/2020

Title: Fernway Subdivision Roadway and Ditch Grading- 2020 Design Engineering Proposal

Code sections:

Attachments: 1. Fernway Watershed, 2. CBBEL Proposal, 3. Signed Contract

Date	Ver.	Action By	Action	Result
5/4/2020	0	Board of Trustees		
4/22/2020	0	Public Works Department	INTRODUCED TO BOARD	

Title
Fernway Subdivision Roadway and Ditch Grading- 2020 Design Engineering Proposal

History

The pavement in Fernway Subdivision was originally constructed in the early 1960's. At that time, the unincorporated roadways were constructed to a rural cross-section, far below current Village standards. The Village has spent considerable resources maintaining these roadways, creek culverts, and water mains since annexing the area over 40 years ago.

Due to the scale of work and expected construction cost, since its 2016 inception the comprehensive road and ditch project for the entire subdivision has been projected to span nine years. An overall Fernway improvement map is provided for reference, showing the nine color-coded street areas representing each anticipated reconstruction project year. The map also identifies six watershed areas defined by green borders and numbers. The determining factor for each project year is dictated by the lay of the land, working from low-lying areas to higher areas; however, since there are several separate (and some independent) watersheds in Fernway, the proposed project years are a guide and not absolute.

The 2016, 2017, 2018, and 2019 phases of this project have all been completed with positive results. Note that the final ditch grading and sod restoration for the 2019 project has carried over to spring 2020 due to early onset of winter last season. Ditch restoration is scheduled to begin in early spring, weather permitting.

The 2020 Fernway Phase 2 design engineering includes field evaluation, utility coordination, pavement rehabilitation evaluation, specifications, detailed drawings, ditch grading plan and profile sheets with cross-sectioning and bidding assistance. The 2020 project area consists of the following streets highlighted in dark blue on the attached map:

- >Robinhood Drive from 165th Place to 88th Avenue
- >Sussex Drive from Sherwood Drive to Robinhood Drive
- >Sherwood Drive from 164th Street to 88th Avenue

>164th Place East of Sherwood Drive

The Village's pavement management consultant, Applied Research Associates, has recommended full pavement reconstruction and stabilization, in conjunction with concrete ribbon shoulders to support the pavement edge. Since the project consists of both street and storm water improvements, the Village has previously engaged both Baxter & Woodman Consulting Engineers and Christopher B. Burke Engineering (CBBEL) to design and oversee the road reconstruction and ditch grading improvements. Years 2016 through 2018 were a joint design effort between Baxter & Woodman and CBBEL, with Baxter & Woodman leading the design. 2019 introduced a new, separate watershed area (number four) and the Village requested proposals from both Baxter & Woodman and CBBEL to select a sole design engineering firm for the improvements, thereby eliminating the joint effort and simplifying the road and stormwater design process.

CBBEL was ultimately awarded the contract for three years of drainage design. The intent behind covering the entirety of watershed area number four, 2019 to 2021, was due to the overlapping drainage paths from one project year to the next. CBBEL was also awarded only the 2019 year of road and ditch reconstruction design, due to the considerable annual design costs. The present 2020 project area is now year two of three within watershed number four and requires road and ditch reconstruction design.

To date, CBBEL has demonstrated excellent ability to perform the services necessary for the proper development of the Fernway stormwater design. CBBEL is also well qualified to provide design services for the road and ditch engineering. Based upon previous Fernway reconstruction experience and excellent performance by CBBEL, staff recommends accepting the proposal from Christopher B. Burke Engineering Ltd. of Rosemont, Illinois in an amount not to exceed \$77,900.00

Based on the type of construction, 55% of the road and ditch design cost will be funded by the Road Improvement Program and 45% of the road and ditch design cost will be funded by the Storm Water Fund.

Financial Impact

Funds for this work are available in the Road Improvement Program account 054-0000-471250, and in the Storm Water Fund account 031-6007-470500.

Recommended Action/Motion

I move to accept the proposal for 2020 Fernway Subdivision Roadway and Drainage Improvements, from Christopher B. Burke Engineering, Ltd. of Rosemont, Illinois, dated February 25, 2020, and revised April 24, 2020 in an amount not to exceed \$77,900.00.