



September 10, 2021

Mr. Kevin Lehmann
Engineer-Public Improvement Technician
Village of Orland Park
15655 S. Ravinia Avenue
Orland Park, Illinois 60462

RE: Professional Engineering Proposal | 2022 Fernway Road & Ditch Reconstruction Project

Dear Mr. Lehmann:

On behalf of V3 Companies, Ltd. (V3), we are pleased to submit this proposal for Professional Engineering Services to address the above-referenced project. If you find this proposal to be acceptable, the executed copies of this letter in accordance with the General Terms and Conditions will constitute acceptance of this proposal.

Project Understanding

We understand that the Fernway Subdivision primarily consists of an open drainage system that outlets to the Tinley and Midlothian Creeks within the neighborhood. The Village has previously completed five stages of road and ditch reconstruction and desires to now complete the nine phase project by combining years 2022, 2023, and 2024 into one final project year in spring of 2022.

We understand that the general intent of the project is to reestablish problematic, substandard conveyance of the roadside ditches via wholesale ditch regrading, which includes replacement of all driveway culverts and street culvert crossings. Ditches must maintain a minimum 1% slope and 3:1 side slopes or be replaced with storm sewer pipe conveyance. The project also requires complete excavation of the substandard roadway pavement section, subgrade stabilization and reconstruction of the new pavement section which includes PCC shouldering. A consistent roadway profile is desired to complement the improved ditches. The project shall also include the overlay or wholesale removal and replacement of the existing multi-use path along 88th Avenue within the project limits, including construction of new concrete ADA ramps at roadway intersections where applicable. Selective removal and replacement of hazardous PCC sidewalk sections along 88th Avenue must also occur.

Scope of Work

The project will be divided into the following tasks:

Task 1 – Topographic Survey

V3 will perform topographic survey of the project area including ROWs and selected rear yard areas. The survey will include:

- Horizontal and vertical control
- Existing Right-of-Way: Establish the approximate existing right-of-way boundary of the roadways within the project limits based on monumentation found in the field, subdivision plats and any other available information.

- Utility Survey and Coordination: All existing receiving storm sewers will be surveyed to determine rim and invert elevations and pipe sizes. We understand that Orland Park has GIS data of the storm system to assist in guiding the field survey collection. Above ground facilities of any additional underground utilities including water main, gas, electric, cable, etc. will also be located.
- Base Mapping: Compile all of the above information into base mapping that is representative of existing conditions.

Task 2 – Pre-Final / Final Engineering

V3 will prepare preliminary engineering plans in accordance with Village and IDOT design criteria:

- Proposed ditches shall maintain a minimum 1% longitudinal slope and 3:1 side slopes or be replaced with storm sewer pipe conveyance.
- Driveway culverts will be replaced.
- Roadway pavement sections will be reconstructed to Village standards.
- Repair or replacement of the 88th Avenue multi-use path.
- Removal and replacement of selected ADA ramps and PCC sidewalk sections along 88th Avenue.

Preliminary plans, specifications, and opinion of probable cost will be submitted to the Village for review. After completion of preliminary engineering, V3 will meet with Village staff to review their comments on the preliminary submittal. V3 will update the engineering plans and finalize the contract documents and cost estimate. We understand that the exact letting date will be determined at this time and a construction schedule will be provided.

Clarifications:

- We understand that the Village will provide supplemental soil borings and geotechnical report of the existing pavement section conditions. Geotechnical investigation is not included in this proposal scope.

Task 3 – Utility Coordination and Permitting

V3 will identify utilities that may have facilities within the project limits and send a Preliminary Utility Request to known utility companies. Based on the information received, utility locations will be added to the pre-final engineering plans and any potential conflicts will be identified. The design will be adjusted as necessary to minimize the potential for conflicts. V3 will also coordinate with the utility companies during the final engineering phase to confirm conflicts (or lack thereof) and any relocation needs.

We understand that the Village has jurisdiction over the majority of the areas where work is proposed. However, there are areas within mapped regulatory floodplain and floodway that will require coordination with MWRD and IDNR-OWR. There is also a section of the project located within the Village of Orland Hills. V3 will coordinate with these entities as necessary to secure approvals for the proposed project. V3 will also prepare a Stormwater Pollution Prevention Plan (SWPPP) consistent with NPDES requirements and submit to the Illinois Environmental Protection Agency (IEPA).

Clarifications:

- Permit or review fees charged by regulatory agencies are not included in the proposed budget and will be paid directly by the Village.

- We expect that the project may be designed such that no hydrologic or hydraulic modeling of Tinley Creek will be required. If final design of the ditches requires any regulatory hydraulic modeling, this may be performed as part of separate agreement with the Village.

Compensation

V3 shall invoice the City per the attached General Terms and Conditions. A detailed hourly cost breakdown is enclosed with this proposal.

Task		Fee
Task 1	Topographic Survey	\$26,390
Task 2	Pre-Final/Final Engineering	\$108,340
Task 3	Utility Coordination and Permitting	\$14,950
	Reimbursables	\$100
Total Fee:		\$149,780

We appreciate the opportunity to present this proposal and look forward to working with the Village of Orland Park on this project.

Sincerely,

V3 COMPANIES, LTD.



David E. Vogel, P.E.
Project Manager

DEV/

Attachments

Accepted For:

VILLAGE OF ORLAND PARK

BY: _____

TITLE: _____

DATE: _____



											SUMMARY
Classification:		Senior PM	Project Manager II	Project Manager I	Design Engineer I/II	Admin Assistant	CAD Technician	Project Surveyor	2-Man Crew	1-Man Crew	TASK SUBTOTALS
Rate:		\$205.00	\$170.00	\$155.00	\$100.00	\$60.00	\$100.00	\$110.00	\$195.00	\$195.00	
TASK											
1.Survey Services											
Topographic Survey		22						50	60	24	156
Hours		22	0	0	0	0	0	50	60	24	156
Fee		\$4,510.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,500.00	\$11,700.00	\$4,680.00	\$26,390.00
2. Pre-Final/Final Engineering Plans/Specifications											
Plan Preparation			50		670		60				780
Drainage Design				40	90						130
Cost Estimates			2		10						12
Contract Documents & Special Provisions			10		40						50
QA/QC			8								8
Meetings (Attendance & Preparation)			12		12						24
Hours		0	82	40	822	0	60	0	0	0	1004
Fee		\$0.00	\$13,940.00	\$6,200.00	\$82,200.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00	\$108,340.00
3. Utility Coordination and Permitting											
Utility Coordination			10	10	16		10				46
Permitting				20	60						80
Hours		0	10	30	76	0	10	0	0	0	126
Fee		\$0.00	\$1,700.00	\$4,650.00	\$7,600.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00	\$14,950.00
BASE PROPOSAL TOTALS		22	92	70	898	0	70	50	60	24	1286
		\$149,680.00									
Reimbursables											\$100.00
											# \$149,780.00