



CHRISTOPHER B. BURKE ENGINEERING, LTD.

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September 17, 2014

Village of Orland Park
Public Works Department
15655 Ravinia Avenue
Orland Park, IL 60462

Attention: Mr. John Ingram – Infrastructure Maintenance Director

Subject: Proposal for Professional Engineering Services (Phase II Engineering) for
Parkview Estates Stage II Stormwater Improvements

Dear Mr. Ingram:

Christopher B. Burke Engineering, Ltd. (CBBEL) is pleased to submit this proposal to provide professional engineering services for the final design of Stage II stormwater improvements for the Parkview Estates Subdivision. Phase I Engineering is currently being completed under a separate contract. This proposal includes our Understanding of the Assignment, Scope of Services and Estimated Fee.

UNDERSTANDING OF ASSIGNMENT

CBBEL previously completed a conceptual level hydrologic and hydraulic model of the Parkview Estates Subdivision and surrounding areas to determine the level of impact that several stormwater improvement alternatives could have in reducing the risk of flooding. The Parkview Estates Subdivision is subject to flooding from a large upstream tributary area that flows through the development's online detention basin and a substantial amount of undetained runoff from unincorporated Palos Township. Based on the results of the analysis, the Village previously contracted with CBBEL for the design of several alternatives to reduce the risk of residential structures being inundated during future storm events.

Specifically, CBBEL is currently designing a collection and conveyance system to divert the undetained stormwater runoff from Palos Township to the detention basin and preparing modifications to the outlet control structure of the Parkview detention basin to more effectively and predictably control the water surface elevations, and the creation of additional stormwater detention storage.

To ultimately provide the type of protection desired by the Village, Stage II of the Parkview Subdivision Stormwater Improvements will consist of the design and construction of a detention basin upstream to collect and store stormwater runoff from other areas tributary to Parkview. The detention basin is proposed to be located at Village-owned property at Evergreen View Park. The proposed stormwater conveyance system will consist primarily

of a new piping network and will collect and convey stormwater runoff from the Caro Vista detention basin to the proposed detention basin.

SCOPE OF SERVICES

Based on our experience with similar projects, our anticipated scope of services is detailed below:

Task 1 – Preliminary Engineering: CBEL will prepare preliminary plans, specifications and cost estimates for the project areas. We assume all the project areas will all be included into one set of construction documents to be completed under a single contract.

We estimate the following plan sheets will be required with associated work hours:

SHEET HOURS	NO. OF SHEETS	AVG. HOURS PER SHEET	HOURS
Title Sheet	1	6	6
General Notes/ Summary of Quantities/ Typical Sections	3	16	48
Alignment Ties & Benchmarks	2	8	16
Sewer Plan & Profile 1"=20'	4	24	96
Grading Plans 1"=50'	3	24	72
Outlet Modification Plan	1	12	12
Erosion Control & Landscaping Plans & Details 1"=50'	3	12	36
Cross-Sections	3	16	48
Construction Details	1	8	8
Specifications	-	-	24
Cost Estimates/Quantity Calculations	-	-	40
QA/QC Reviews	-	-	8
Total	21		414*

** Represents hours to complete Tasks 4 and 7.*

Preliminary Plans, Specifications and a Cost Estimate will be submitted to the Village for review. This task includes one review meeting with Village Staff.

Task 2 – Plat of Easement: It is anticipated that an easement will be required for the stormwater improvements from ComEd. The following tasks will be required for the 1 easement:

- Initial coordination with Client
- Research at the Cook County Recorder's Office
- Field survey to locate limits of the improvements
- Office calculations and plotting of field and record data
- CAD Drafting of the Plat of Easement for the proposed easement area
- Write Legal description for the proposed easement area

- Final review and submittal by an Illinois Professional Land Surveyor

Task 3 – MWRDGC Coordination: Although the Village owns the detention basins where the majority of the additional storage is proposed, they have been previously permitted by the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) and it is anticipated that a significant amount of coordination will be required during the design and construction of the proposed stormwater improvements to obtain MWRDGC concurrence. CBBEL will meet and coordinate with MWRDGC throughout the design process to determine any potential conflicts with MWRDGC's requirements.

Task 4 – Permitting: In addition to the MWRDGC, CBBEL will prepare a Stormwater Pollution Prevention Plan (SWPPP) consistent with the requirements of the Village's NPDES Phase II permit and submit it to the Illinois Environmental Protection Agency (IEPA).

Task 5 – Final Engineering: Upon meeting with the Village Staff to review their comments on the preliminary submittal, CBBEL will revise and finalize the contract documents and cost estimate. During this task the exact letting date will be determined and an estimated construction schedule will be provided.

Task 6 – Bid Assistance: CBBEL will assist the Village in advertising for bids, distribute plans and specifications to all bidders, and be present at the bid opening. CBBEL will review and tabulate all of the bids and make a recommendation of award.

FEE

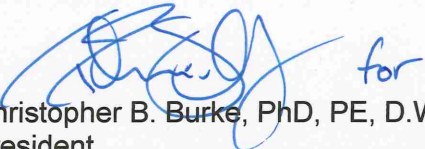
The estimated costs for the tasks provided above are as follows:

TASK	DESCRIPTION	COST
1	Preliminary Engineering	\$ 33,500
2	Plat of Easement	\$ 4,500
3	MWRDGC Coordination	\$ 8,400
4	Permitting	\$ 3,800
5	Final Engineering	\$ 12,500
6	Bid Assistance	\$ 2,200
	Direct Costs	\$ 500
	Total	\$ 65,400

We will bill you at the hourly rates specified on the attached Schedule of Charges and establish our contract in accordance with the previously accepted General Terms and Conditions for Orland Park.

Please sign and return one copy of this agreement as an indication of acceptance and notice to proceed. Please feel free to contact us anytime.

Sincerely,

 for
Christopher B. Burke, PhD, PE, D.WRE, Dist.M.ASCE
President

Attachment: Standard Charges

THIS PROPOSAL, SCHEDULE OF CHARGES AND GENERAL TERMS & CONDITIONS
ACCEPTED FOR THE VILLAGE OF ORLAND PARK:

BY: _____

TITLE: _____

DATE: _____

CHRISTOPHER B. BURKE ENGINEERING, LTD.
STANDARD CHARGES FOR PROFESSIONAL SERVICES
JANUARY, 2007

<u>Personnel</u>	<u>Charges*</u> <u>(\$/Hr)</u>
Principal	219
Engineer VI	192
Engineer V	157
Engineer IV	126
Engineer III	117
Engineer I/II	95
Survey V	157
Survey IV	120
Survey III	115
Survey II	90
Survey I	70
Resource Planner V	107
Resource Planner IV	101
Resource Planner III	92
Resource Planner II	84
Engineering Technician IV	120
Engineering Technician III	99
Engineering Technician I/II	91
CAD Manager	126
Assistant CAD Manager	120
CAD II	117
CAD I	91
GIS Specialist III	112
GIS Specialist I/II	63
Environmental Resource Specialist V	140
Environmental Resource Specialist IV	126
Environmental Resource Specialist III	107
Environmental Resource Specialist I/II	87
Environmental Resource Technician	82
Administrative	82
Engineering Intern	48
Survey Intern	48
Information Technician III	88
Information Technician I/II	56

Direct Costs

Outside Copies, Blueprints, Messenger, Delivery Services, Mileage Cost + 12%

- Charges include overhead and profit

Christopher B. Burke Engineering, Ltd. reserves the right to increase these rates and costs by 5% after December 31, 2007.