



**VILLAGE OF WILMETTE
1200 Wilmette Ave
Wilmette, IL 60091**

**Contract No. 18137
Amendment No. 02**

For:

**West Side Neighborhood Storage Project
ENGINEERING SERVICES**

With:

**Christopher B. Burke Engineering, Ltd.
9575 W. Higgins Road, Suite 600
Rosemont, IL 60018**

1. The Village of Wilmette ("Village") and Christopher B. Burke Engineering, Ltd. ("Engineer") have entered into contract no. 18137 – West Side Neighborhood Storage Project – Engineering Services.

2. The Village and Engineer hereby mutually agree to amend the contract to include the following services and fees:

- a. Design engineering services for the optimization plan developed during the 30% design phase of the project per the proposal dated (revised) June 20, 2019 attached as Attachment Two ("Attachment Two") for an amount not to exceed \$405,206.
- b. Construction engineering services for Phase 1A for a new storm sewer as originally contemplated in the base project per the attached quote dated 07/12/2019 attached as Attachment Three ("Attachment Three") for an amount not to exceed \$281,346.

3. All other contract terms and conditions not changed by this (or prior) Amendment(s) remain in full force and effect.

4. Effective Date. The Amendment to the Contract shall be binding on the parties and effective only as of the date fully executed by both parties.

IN WITNESS WHEREOF, the Village of Wilmette, Illinois by Robert T. Bielinski, Village President, and the Contractor have hereunto set their hands to this Contract on the _____ day of _____, 2019.

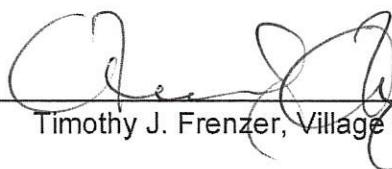
THE VILLAGE OF WILMETTE, ILLINOIS

Accepted this _____ day of _____, 2019



Robert T. Bielinski, Village President

Attest:

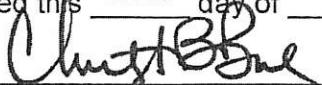


Timothy J. Frenzer, Village Clerk

FOR THE CORPORATION

An officer duly authorized by the corporation shall sign here:

Accepted this 20th day of August, 2019



President

By



Position/TITLE

Executive Vice President

By

Position/TITLE

Christopher B. Burke Engineering, Ltd.

Print Company Name

An officer duly authorized should sign and attach corporate seal

ATTACHMENT TWO
CHRISTOPHER B. BURKE ENGINEERING, LTD.'S
PROPOSAL DATED JUNE 20, 2019 (REVISED)

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**

9575 West Higgins Road Suite 600 Rosemont, Illinois 60018 TEL (847) 823-0500 FAX (847) 823-0520

April 9, 2019
Revised June 20, 2019

Village of Wilmette
711 Laramie Avenue
Wilmette, IL 60091

Attention: Brigitte Ann Berger-Raish, P.E. - Director of Engineering and Public Works

Subject: Wilmette West Side Neighborhood Storage Project
Addendum for Optimized Storm Sewer Design
(CBBEL Project 18-0245)

Dear Ms. Berger:

Christopher B. Burke Engineering, Ltd. (CBBEL) is pleased to provide this addendum for professional engineering services related to the West Side Neighborhood Storage Project in Wilmette, IL. Included below you will find our Understanding of the Assignment, Scope of Services and Fee Estimate.

UNDERSTANDING OF THE ASSIGNMENT

Based on the February 4, 2019 Village of Wilmette Committee of the Whole meeting, we understand that the Village wishes to move forward with the optimized West Side Neighborhood Storage Project. This includes upsized underground storage vaults at Community Playfield and Thornwood Park as well as four new storm sewer systems. The larger underground stormwater storage vaults are within the previously contemplated footprints at the park sites and this design work will be covered under our existing design services contract. The four proposed storm sewer systems will require additional survey and design services that are outlined in this addendum.

Optimization Storm Sewer System	Linear Feet	Drains to Underground Storage Vault	Design Level
1	2,100	Hibbard Park	30%
2	1,850	Thornwood Park	30%
3	3,150	Community Playfields	100%
4	2,250	Thornwood Park	30%

Optimization storm sewer systems 1,2 and 4 will be taken to a 30% design level to match our current scope of services for Hibbard Park and Thornwood Park. Optimization storm sewer system 3 will be taken to a 100% design level with bidding documents to be

consistent with our current scope of services for Community Playfields and will be bid out as an alternate as part of that package.

SCOPE OF SERVICES

The following scope of services was set up with tasks that mirror our existing scope of services with the Village. The manhour estimates are consistent with those in our current contract for the storm sewer linear footage.

Task 1 - Preliminary Engineering for Storm Sewer Optimization 1,2,3 and 4

Task 1A: GIS Coordination and Topographic Survey

As part of this task, the project team will perform topographic survey of the project area ROW to ROW for the following streets and areas:

Storm Sewer Optimization Area 1 – Romona Road from Wilmette Avenue to South to Cul-de-sac; Beverly Drive from Wilmette Avenue to 150 feet west of Beverly Drive bend = 2,100 feet.

Storm Sewer Optimization Area 2 – Hibbard Road from Lake Avenue to Skokie Highway; and Washington Avenue from Skokie Highway to 430 feet east = 1,850 feet.

Storm Sewer Optimization Area 3 – Hunter Road from Birchwood Avenue North Property line of Highcrest Middle School; Washington Avenue from Pinecrest to Hunter Road; and Highcrest Middle School North Property line from Hunter Road to Community Park Basin = 3,150 feet.

Storm Sewer Optimization Area 4 – Lake Avenue from Hunter Road to Ouilmette Lane; Ouilmette Lane from Lake Avenue to Birchwood Avenue; and Birchwood Avenue from Pinecrest Lane to Ouilmette Lane = 2,250 feet.

The project team will perform the following survey tasks:

Horizontal Control: Utilizing state plane coordinates, the project team will tie into NGS Monumentation control utilizing state of the art GPS equipment. Horizontal Datum will correlate with established/existing NGS control monuments (NAD '83, Illinois East Zone 1201).

Vertical Control: The project team will establish elevations on new horizontal control points, these will be based on the NAVD '88 Datum.

Existing Right-of-Way: The project team will perform Research at the Cook County Recorder's Office, Field recon and survey to locate existing monumentation and Right-of-way evidence and analyze Record and Field Data necessary to compute approximate right-of-way of the roadways within the project limits.

Topographic Survey: The project team will field locate all driveways, pavement markings, signs, manholes, utility vaults, drainage structures, utilities, culverts, etc.

within the project limits. Establish all rim and invert elevations, utility sizes & type, depth, subterranean structure, etc., at all points of access to below-grade utilities.

Cross Sections: The project team will survey cross sections within the project limits at 50' intervals, and at all other grade controlling features.

Utility Survey and Coordination and GIS Coordination: All existing storm and sanitary sewers will be surveyed to determine rim and invert elevations and pipe sizes. Above ground facilities of any additional underground utilities including water main, gas, electric, cable, etc. will also be located. In addition, the project team will coordinate with utility owners to retrieve atlas information. CBBEL developed the Village shapefiles for the separate storm sewer system as part of our 2015 study. We also have a large GIS database from the 2015 study that we will utilize for the project.

Tree Survey: The project team will locate all trees over 6 inches in diameter within the existing right-of-way in order to assess potential tree impacts, if any, associated with the project. Locate landscape planting beds, screenings, landscape islands or planters, and individual trees of 6" diameter or greater and indicate the type, deciduous or coniferous within the survey project area.

Office calculations and plotting of field and record data.

Drafting of an Existing Conditions Plan at a scale of 1"=20'.

Task 1B: Geotechnical Soil Borings and CCDD Analysis:

Our team will include ECS Midwest LLC who will perform a series of soil borings within the limits of the proposed storm sewer improvement project areas to 15-foot depth below existing site grades, as described below. The borings will be extended to the proposed depths below the existing ground surface, unless auger refusal causes them to be terminated at a more shallow depth.

Site	Section	Number of Borings	Depth	Pavement Coring	# of CCDD Tests
Storm Sewer Optimization 1	Sewer Line	4	15 feet	Yes, 4 locations	4
Storm Sewer Optimization 2	Sewer Line	4	15 feet	Yes, 4 locations	4
Storm Sewer Optimization 3	Sewer Line	6	15 feet	Yes, 6 locations	6
Storm Sewer Optimization 4	Sewer Line	5	15 feet	Yes, 5 locations	5

Upon completion of testing and engineering analysis, ECS will prepare a written engineering report that presents our findings and recommendations. The engineering report will include the following items:

- a. Observations from our site reconnaissance including current site conditions, surface drainage features, and surface topographic conditions.
- b. A review of the published geologic conditions and their relevance to your planned development.
- c. A subsurface characterization and a description of the field exploration and laboratory tests performed. Ground water concerns relative to the planned construction, if any, will be summarized.
- d. Final logs of the soil borings and records of the field exploration prepared in accordance with the standard practice for geotechnical engineering. A boring location plan will be included, and the results of the laboratory tests will be plotted on the final boring logs or included on a separate test report sheet.
- e. Recommended allowable soil bearing pressure(s) and bearing elevations for the proposed sewer system and manhole structures and estimates of predicted foundation settlement (total and differential).
- f. Recommendations for earth retention systems for trenching construction including excavation recommendations, lateral earth pressure, below-grade drainage recommendations and below-grade wall backfill recommendations.
- g. Evaluation of the on-site soil characteristics encountered in the soil borings. Specifically, we will discuss the suitability of the on-site materials for reuse as engineered fill to support grade slabs and pavements. We will also include compaction requirements and suitable material guidelines.
- h. Recommendations for additional testing and/or consultation that might be required to complete the geotechnical assessment and related engineering for this project.
- i. In an effort to determine what landfill (CCDD or non-CCDD) will be able to accept soils generated from future construction activities and to assist in determining approximate costs for future soil disposal activities, soil samples obtained during the geotechnical exploration exhibiting the greatest potential for possible impacts (visual, olfactory, PID readings, etc.) will be analyzed. Note that pre-sampling soils for compliance with the law will also assist in accommodating same day "dig and haul activities" and should reduce overall costs and the potential for delays associated with soil disposal activities.

Task 1C: XP-SWMM Modeling to Finalize Storm Sewer Layout:

The concept level XP-SWMM analysis will be updated based on the survey and utility information for verification of the previous sizes and adjustments based on utility conflicts and other constraints. The results of this analysis will be the basis for the 30% design plans.

Task 1D: 30% Plans for Storm Sewer

Based on the XP-SWMM modeling, topographic survey and GIS information, we will prepare storm sewer alignments and 30% plans for each of the four optimized scenarios. This will include 1 kickoff meeting and four progress meetings. This task will include the following:

- Determine limits of trunk line construction.
- Confirm design criteria of roadway reconstruction vs. patch and resurface
- Design of proposed storm sewer horizontal and vertical alignment
- Approximate structure spacing
- Mainline utility conflict identification
- Underground stormwater storage configuration verification
- Identification for Green Infrastructure Opportunities.
- Preliminary plan sheets will include:
 - Cover Page (if required)
 - Typical Sections for Trench and Pavement
 - Utility Plan and Profile Sheets
 - Proposed Alignment
 - Invert Elevations
 - Pipe Diameter
 - Approximate Structure Locations and Sizes
 - Utility Conflict Identification
 - Site Plan for Preliminary Vault Configuration
 - Preliminary Vault Design/Details

The plans will be presented to the Village Staff during the progress meetings and cost estimates will be prepared and updated as part of Task 1E. The plans will also be independently reviewed by Construction Engineers from the project team for an initial constructability review and identification of construction obstacles. These will be presented and discussed with the Village during the preliminary engineering phase.

Task 1E: Engineer's Estimate of Probable Cost

Based on the 30% design plans, an Engineer's Estimate of Probable Cost (EOPC) will be prepared for the project. The EOPC will assume a 20% contingency and will be based upon an average of recent unit prices from projects of similar scope and size.

Task 2 – Final Design and Bidding Services for Storm Sewer Optimization 3

We understand the improvements to include the construction of approximately 3,150 feet of new storm sewer will be constructed to convey the storm water to the proposed basin at Community Playfield.

Relief Sewers

- 3,150 feet of mainline sewer (24" to 60")
- Reconstruction of Washington Avenue (storm sewer >48")
- Patching/resurfacing of all other streets
- Green Infrastructure (TBD)

Tasks 2a and 2b – Construction Documents

Our team will prepare construction documents consisting of drawings, details, and technical specifications. The set of drawings will contain a General Notes sheet that will list the required material specifications, plan view sheets, section cuts, restoration detail sheets, and detailed construction staging as required. The technical specifications will provide detailed information on each of the work items and materials to be used in the WSNSP.

We understand the Village's front-end documents shall be inserted into the WSNSP specifications.

We estimate the following drawings will be prepared to complete the Construction Documents:

DESIGN AND BIDDING SERVICES

Optimization Scenario #3

Total L.F. of Sewer Sheet	3,150'	No. of Sheets
Cover Sheet*		1
General Notes*		1
Summary of Quantities		1
Typical Sections		2
Alignment, Ties and Benchmarks		2
Construction Details		2
Existing Conditions and Removal Plans		6
Storm Sewer Plan and Profiles		8
Watermain Plan and Profiles		1
Roadway Reconstruction Plan and Profiles		3
Cross Sections		6
Grading and Detention Vault Plans		0
Staging Plans		3
Park Amenity Plans		0
Erosion Control and Landscaping Plans		5
Erosion Control and Landscaping Details		2
Total Sheets		43

Plans will be submitted to the Village and other agencies to review at the Preliminary (65%), Pre-final (90%) and Final (100%) levels.

Design of common green infrastructure elements, to be determined in the Green Infrastructure Plan, will be included in the construction documents. Common green infrastructure items may include rain gardens, bio-swales, infiltration basins, permeable pavement sections, and/or similar items. Complete "green" streetscape design and/or

rainwater harvesting systems (with filtration, pumping, and treatment per ILPH) are beyond this scope of services.

Task 2c – General Conditions/Staging

Our team will prepare a set of General Conditions that includes site-specific instructions for each phase and special requirements with respect to minimizing disruption to the area residents, School District #39, Park District operations and adjacent properties. It is expected that these will include interim completion dates and associated liquidated damages.

Task 2d – Bid Proposal Alternates

Our team will prepare a bid form for unit prices to be used for fairly pricing additional/deduct work and alternative pricing forms, if needed. Value engineering/cost saving alternatives will be investigated. These may include alternate storm sewer materials, different pavement rehabilitation or reconstruction sections, precast tees vs. traditional manhole structures and others.

Task 2e – Engineer's Opinion of Probable Cost

Our team will prepare a list of engineer's estimate of probable construction costs, prior to bidding of each phase.

Task 2f – Board Meetings/Neighborhood Meetings

CBBEL will present the WSNSP results at a Village Board meeting and at a separate neighborhood meeting. Conduct a formal presentation of the findings and recommendations and design, along with the construction costs and implementation schedule. Numerous visual aids may be needed for possible group discussions.

Task 2g – Operation and Maintenance Plans

CBBEL will provide an operation and maintenance plan for the storm water system per MWRD requirements, manufacturer specifications and Public Works input.

Task 2h – Permitting and Utility Coordination

Our team will submit and receive approval for all required permits from IEPA, MWRDGC, IDOT and Cook County and the Village of Wilmette.

CBBEL will identify utilities that may have facilities within the project limits and send a Preliminary Utility Request to all known utility companies to obtain pertinent information. Based on the information received from the utility companies, CBBEL will include locations of all facilities on the plans, identify potential conflicts with the proposed project and design the proposed improvements to minimize utility conflicts. If limited information on existing utility locations is available, CBBEL will direct Cardo/TBE Group to physically locate and survey the horizon and vertical locations of the utility in question. We have an allowance for 2-3 potholes.

Task 2i through 2m – Bidding Assistance

During the bidding phase our team will:

- Provide a list of qualified contractors to bid on the improvements.
- Facilitate the pre-bid meeting, WSNSP site tours, and bid opening.
- Prepare and submit addenda as needed.
- Respond to bid questions during the bidding period.

- Evaluate bids received. Prepare and submit a memorandum to the Village on its review, analysis, conclusions, and recommendation associated with the bids received. The memorandum shall also describe, explain, and summarize any variances between the Engineer's estimate and apparent low bidder's bid breakdown. Check references submitted.

FEE ESTIMATE

Our fee estimate is provided in the table below and backup CECS sheets are attached. These design fees were included in the overall project cost estimates that were presented to the Village Board at the February 4, 2019 Committee of the Whole meeting.

TASK	DESCRIPTION	FEE
1	Optimization Storm Sewer 1 – Preliminary Engineering 30% Plans	\$62,156.34
	Optimization Storm Sewer 2 – Preliminary Engineering 30% Plans	\$54,872.72
	Optimization Storm Sewer 3 – Preliminary Engineering 30% Plans	\$91,302.07
	Optimization Storm Sewer 4 – Preliminary Engineering 30% Plans	\$64,286.45
2	Optimization Storm Sewer 3 – Final Design and Bidding Services	\$132,588.57
	TOTAL	\$405,205.81

We will bill you at the hourly rates specified in our current contract for the West Side Neighborhood Storage Project and establish our contract in accordance with those General Terms and Conditions. Direct costs for blueprints, photocopying, mailing, overnight delivery, messenger services and report compilation are included in the fee estimate. These General Terms and Conditions are expressly incorporated into and are an integral part of this contract for professional services. Please note that any requested meetings or additional services are not included in the preceding fee estimate and will be billed at the attached hourly rates.

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,



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

Encl. Schedule of Charges
General Terms and Conditions

THIS PROPOSAL, SCHEDULE OF CHARGES AND GENERAL TERMS AND CONDITIONS ACCEPTED FOR THE VILLAGE OF WILMETTE:

BY: _____

TITLE: _____

DATE: _____

**Cost Estimate of
Consultant Services**

Firm: Christopher B. Burke Engineering, Ltd.
 Focus: OPT 1 - Preliminary Engineering
 Section:
 County:
 Job No.:
 FTB & Item:

Date: 06/13/19
 Direct Labor Multiple: _____
 Overhead Rate: 120.00%
 Complexity Factor: 0

ITEM	MAN HOURS [A]	PAYROLL [B]	[2.60+R] TIMES PAYROLL [C]	DIRECT COSTS [D]	SERVICES BY OTHERS [E]	DBE TOTAL [C+D+E]	TOTAL [C+D+E]	% OF GRAND TOTAL
A GIS Coordination and Topographic Survey	87	4,563.01	11,863.83		0.00	11,863.83	11,863.83	100.00%
B Geotechnical Soil Boring and CPT/CDP Analysis	4	203.92	506.18	6,315.00	0.00	7,601.00	7,601.00	12.07%
C XP-SMILE Modeling & Finalize Storm Sewer Layout	52	2,996.19	7,717.22	0.00	0.00	7,717.22	7,717.22	12.42%
D 3D Plans for Storm Sewer Alignment	234	12,301.32	31,963.48	0.00	0.00	31,963.48	31,963.48	51.46%
E Engineer's Estimate of Prunable Cost	24	1,108.72	3,090.87	0.00	0.00	3,090.87	3,090.87	4.97%
TOTALS	411	21,285.13	55,341.34	0.00	0,815.00	0.00	62,156.34	100.00%

Average Hourly Project Rates

Route OPT 1 - Preliminary Engineering

Section

County

Job No.

PB/Barrett

Date 06/13/19

Consultant Christopher B. Burke Engineering, Ltd.

Sheet 1

OF 1

A/E Services by Discipline												A/E Services by Discipline												
Payroll Classification				Total Project Rates				AGS Coordination and Topographic Surveying				Geotechnical Soil Boings and CPT-SONAM Modeling to Final D 30%				Plants for Storm Sewer & Engineer's Estimate of Probable								
Avg Hourly Rates	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	
PRINCIPAL	575.00	0																						
ENGINEER VI	\$74.56	0																						
ENGINEER V	\$65.96	154	37.47%	24.72																				
ENGINEER IV	\$64.41	40	9.73%	5.30																				
ENGINEER III	\$46.70	0																						
ENGINEER II	\$33.08	90	21.90%	7.24																				
SURVEY V	\$74.00	1	0.24%	0.18																				
SURVEY IV	\$65.50	3	0.73%	0.48																				
SURVEY III	\$57.75	13	3.16%	1.83																				
SURVEY II*	\$43.36	28	6.81%	2.95																				
SURVEY I*	\$34.60	28	6.81%	2.35																				
ENGINEERING TECHNICIAN	\$64.77	0																						
ENGINEERING TECHNICIAN	\$48.25	0																						
ENGINEERING TECHNICIAN	\$51.44	0																						
ENGINEERING TECHNICIAN	\$20.67	0																						
CAD MANAGER	\$81.76	16	3.69%	2.40																				
ASST. CAD MANAGER	\$51.33	0																						
CAD II*	\$46.92	36	9.25%	4.34																				
GIS SPECIALIST III	\$49.00	0																						
GIS SPECIALIST III*	\$22.00	0																						
LANDSCAPE ARCHITECT	\$55.50	0																						
ENVIRONMENTAL RESOURCE	\$68.50	0																						
ENVIRONMENTAL RESOURCE	\$63.13	0																						
ENVIRONMENTAL RESOURCE	\$40.67	0																						
ENVIRONMENTAL RESOURCE	\$61.13	0																						
ENVIRONMENTAL RESOURCE	\$68.50	0																						
ADMINISTRATIVE*	\$38.28	0																						
ENGINEERING INTERN	\$16.00	0																						
		0																						
TOTALS		411	100%	\$51.79	97	100%	\$47.04	4	100%	\$65.98	52	100%	\$57.03	234	100%	\$52.57	24	100%	\$49.53					

Cost Estimate of Consultant Services

Firm Christopher B. Burkes Engineering, Ltd.
Rands OPTIZ - Preliminary Engineering
Section County
County Lab No. PPIB & H

Date Overhead Rate Complexity Factor

D
120000
100000
80000
60000
40000
20000

Route _____
 Section _____
 County _____
 Job No. _____
 PJBItem _____

Average Hourly Project Rates

OPT 2 - Preliminary Engineering

Consultant Christopher E. Butte Engineering, Ltd.

Date 06/13/19

Sheet 1 OF 1

Project Rates										Plants for Storm Sewer D 30% Final XP-STORM Modeling to Final C									
Payroll Classification	Avg Hourly Rates	Total Hours	% Part.	Wght Avg	A/GS Coordination and Topog B Geotechnical Soil Erosion and			Hours % Part.	Wght Avg	Hours % Part.	Wght Avg	Hours % Part.	Wght Avg	Hours % Part.	Wght Avg	Hours % Part.	Wght Avg		
					Part.	Part.	Part.												
PRINCIPAL	\$75.00	0																	
ENGINEER VI	\$74.55	0																	
ENGINEER V	\$65.98	110	27.99%	18.47				4	100.00%	65.98	12	23.08%	15.23	84	41.58%	27.44	10	45.45%	
ENGINEER IV	\$64.41	0																	
ENGINEER III	\$64.70	0																	
ENGINEER II	\$32.08	142	36.13%	11.95															
SURVEY V	\$74.00	1	0.25%	0.19	1	0.68%	0.65												
SURVEY IV	\$65.50	4	1.02%	0.67	4	3.54%	2.32												
SURVEY III	\$57.75	14	3.58%	2.06	14	12.39%	7.15												
SURVEY II	\$43.30	36	9.16%	3.97	36	31.66%	13.79												
SURVEY I*	\$34.50	36	9.16%	3.16	36	31.66%	10.99												
ENGINEERING TECHNICIAN	\$64.77	0																	
ENGINEERING TECHNICIAN	\$48.25	0																	
ENGINEERING TECHNICIAN	\$61.44	0																	
CAD MANAGER	\$20.67	0																	
ASST. CAD MANAGER	\$61.75	16	4.07%	2.51	16	14.16%	9.74												
CAD II*	\$61.33	0																	
GIS SPECIALIST III	\$49.00	0																	
GIS SPECIALIST II*	\$32.00	0																	
LANDSCAPE ARCHITECT	\$35.50	0																	
ENVIRONMENTAL RESOURCE	\$62.50	0																	
ENVIRONMENTAL RESOURCE	\$53.13	0																	
ENVIRONMENTAL RESOURCE	\$40.67	0																	
ENVIRONMENTAL RESOURCE	\$31.13	0																	
ENVIRONMENTAL RESOURCE	\$38.50	0																	
ADMINISTRATIVE*	\$16.28	0																	
ENGINEERING INTERN	\$10.00	0																	
TOTALS	\$93	100%	\$47.03	113	100%	\$46.15	4	100%	\$65.98	52	100%	\$40.67	202	100%	\$48.68	22	100%	\$46.03	

**Cost Estimate of
Consultant Services**
(Direct Labor Method)

Firm Christopher B. Burke Engineering, Ltd.
Route QP T 3 - Preliminary Engineering
Section County
Job No. PTB & Item

Date 16/3/19
Overhead Rate 125.53%
Complexity Factor 4

ITEM	MANHOURS (A)	PAYROLL (B)	(2.50+R) TIMES PAYROLL (C)	DIRECT COSTS (D)	SERVICES BY OTHERS (E)	DBE TOTAL (F+G+E)	% OF GRAND TOTAL (G+D+E)
A GIS Coordination and Topographic Survey	1	\$65.98	171.55		16,101.52	16,273.07	17.82%
B Geotechnical Soil Boring and GCD Analysis	4	263.92	686.19		8,345.00	8,331.13	10.22%
C XP, SWMM Modeling to Finalize Storm Sewer Layout	52	2,963.16	7,717.22		0.00	7,717.22	8.45%
D 3D Plans for Storm Sewer Alignment	1	65.98	171.55		50,549.92	50,721.47	55.58%
E Engineer's Estimate of Probable Cost	1	65.98	171.55		7,087.58	7,259.13	7.28%
TOTALS	59	\$4,430.02	\$,919.05	0.00	62,384.02	0.00	91,302.07
Baxter & Woodham ECs							100.00%
							DBE 0.00%

Average Hourly Project Rates

Route _____

CPT 3 - Preliminary Engineering

Section _____

County _____

Job No. _____

PTBItem _____

Consultant _____

Christopher S. Burtis Engineering, Ltd.

Date 06/13/19

Sheet 1 OF 1

Payroll Classification										Total Project Rates										AGS Coordination and Topog B Geotechnical Soil Bolings and C XR-SWMM Modeling to Final D 3D Plans for Storm Sewer A-E Engineer's Estimate of Probable									
		Avg Hourly Rates	Total Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
PRINCIPAL		\$75.00	0																										
ENGINEER VI		\$74.58	0																										
ENGINEER V		\$65.98	19	32.20%	21.25	1	100.00%	65.98	4	100.00%	65.98	12	23.08%	15.23	1	100.00%	65.98	1	100.00%	65.98									
ENGINEER IV		\$54.41	40	67.60%	36.89																								
ENGINEER III		\$46.70	0																										
ENGINEER II		\$33.06	0																										
SURVEY V		\$74.00	0																										
SURVEY IV		\$65.50	0																										
SURVEY III		\$57.76	0																										
SURVEY II*		\$43.30	0																										
SURVEY I*		\$34.50	0																										
ENGINEERING TECHNICIAN		\$64.77	0																										
ENGINEERING TECHNICIAN		\$64.77	0																										
ENGINEERING TECHNICIAN		\$46.25	0																										
ENGINEERING TECHNICIAN		\$51.44	0																										
ENGINEERING TECHNICIAN		\$20.67	0																										
CAD MANAGER		\$61.75	0																										
ASST CAD MANAGER		\$51.33	0																										
CAD II*		\$46.92	0																										
GIS SPECIALIST II		\$49.00	0																										
GIS SPECIALIST III*		\$32.00	0																										
LANDSCAPE ARCHITECT		\$55.50	0																										
ENVIRONMENTAL RESOURCE		\$88.50	0																										
ENVIRONMENTAL RESOURCE		\$53.13	0																										
ENVIRONMENTAL RESOURCE		\$40.67	0																										
ENVIRONMENTAL RESOURCE		\$31.13	0																										
ENVIRONMENTAL RESOURCE		\$38.50	0																										
ADMINISTRATIVE*		\$36.28	0																										
ENGINEERING INTERN		\$16.00	0																										
		0	0																										
TOTALS		59	100%		\$58.14	1	100%	\$65.98	4	100%	\$65.98	52	100%	\$57.08	1	100%	\$65.98	1	100%	\$65.98	1	100%	\$65.98	1	100%	\$65.98			

Cost Estimate of Consultant Services

Firm Christopher B. Burke Engineering, Ltd.
Route QPT-4 Preliminary Engineering
Section
County
Job No.
PTB & them

Date
Overhead Rate
Complexity Factor

DB13353
129.83%
0

ITEM	MAN HOURS (A)	PAYROLL (B)	(2.8G+R) TIMES PAYROLL (C)	DIRECT COSTS (D)	SERVICES BY OTHERS (E)	DBE TOTAL (G+D+E)	TOTAL (G+D+E)	% OF GRAND TOTAL
A GIS Coordination and Topographic Survey	116	5,356.68	13,824.61		0.00		13,824.61	23.66%
B Geotechnical Soil Boings and CCRD Analysis	4	283.92	886.19		6,760.00		7,476.19	11.85%
C XI- Storm Modelling to Finalize Storm Sewer Layout	62	2,958.16	7,717.22		0.00		7,717.22	12.00%
D 3D Plans for Storm Sewer Alignment	267	12,136.16	33,661.82		0.00		31,661.82	49.00%
E Engineer's Estimate of Probable Cost	30	1,387.20	3,606.72		0.00		3,606.72	5.51%
TOTALS	449	22,114.02	57,385.45	0.00	6,760.00	0.00	54,286.45	100.00%

Average Hourly Project Rates

OPT 4 - Preliminary Engineering
Route

Consultant Christopher B. Burke Engineering, Ltd.

Date 06/13/19

Sheet 1 of 1

Average Hourly Project Rates

Route _____ OPT 3 DESIGN AND BIDDING

Section _____

County _____

Job No. _____

PTBItem _____

Consultant Christopher B. Burke Engineering, Ltd.

Date 06/18/19

Sheet 1 OF 2

Payroll Classification	Avg Hourly Rates	Total Project Rates			Task 2a & b - Construction Doc			Task 2c - General Conditions			Task 2d - Bid Preparation			Task 2e - Alternatives			Task 2f - Engineer's Opinion			Task 2g - Board Meeting/Adjourn		
		% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	
PRINCIPAL	\$74.00	0																				
ENGINEER VI	\$74.00	0																				
ENGINEER V	\$56.98	32	100.00%	65.98	1	100.00%	65.98	1	100.00%	65.98	1	100.00%	65.98	1	100.00%	65.98	1	100.00%	65.98	1	100.00%	65.98
ENGINEER IV	\$54.41	0																				
ENGINEER II	\$46.70	0																				
ENGINEER VI	\$33.08	0																				
SURVEY V	\$74.00	0																				
SURVEY IV	\$55.50	0																				
SURVEY III	\$67.75	0																				
SURVEY II	\$43.50	0																				
SURVEY *	\$34.50	0																				
ENGINEERING TECHNICIAN	\$54.77	0																				
ENGINEERING TECHNICIAN	\$48.25	0																				
ENGINEERING TECHNICIAN	\$51.44	0																				
ENGINEERING TECHNICIAN	\$20.37	0																				
CAD MANAGER	\$61.75	0																				
ASST. CAD MANAGER	\$51.39	0																				
CAD II*	\$46.92	0																				
GIS SPECIALIST II	\$49.00	0																				
GIS SPECIALIST I*	\$32.00	0																				
LANDSCAPE ARCHITECT	\$56.50	0																				
ENVIRONMENTAL RESOUR	\$58.50	0																				
ENVIRONMENTAL RESOUR	\$53.13	0																				
ENVIRONMENTAL RESOUR	\$40.87	0																				
ENVIRONMENTAL RESOUR	\$31.18	0																				
ENVIRONMENTAL RESOUR	\$33.50	0																				
ADMINISTRATIVE*	\$36.28	0																				
ENGINEERING INTERN	\$16.00	0																				
		0																				
TOTALS		32	100%	\$65.98	1	100%	\$65.98	1	100%	\$65.98	1	100%	\$65.98	1	100%	\$65.98	1	100%	\$65.98	1	100%	

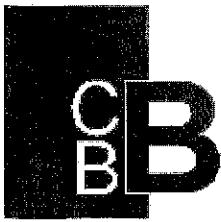
CHRISTOPHER B. BURKE ENGINEERING, LTD.
STANDARD CHARGES FOR PROFESSIONAL SERVICES
JANUARY, 2019

	Charges*
	(\$/Hr)
<u>Personnel</u>	
Principal	265
Engineer VI	241
Engineer V	200
Engineer IV	163
Engineer III	146
Engineer I/II	116
Survey V	220
Survey IV	188
Survey III	165
Survey II	121
Survey I	96
Engineering Technician V	190
Engineering Technician IV	155
Engineering Technician III	140
Engineering Technician I/II	65
CAD Manager	170
Assistant CAD Manager	147
CAD II	130
GIS Specialist III	142
GIS Specialist I/II	90
Landscape Architect	163
Environmental Resource Specialist V	208
Environmental Resource Specialist IV	163
Environmental Resource Specialist III	134
Environmental Resource Specialist I/II	90
Environmental Resource Technician	110
Administrative	100
Engineering Intern	61
Information Technician III	125
Information Technician I/II	112
<u>Direct Costs</u>	
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, 2019.

ATTACHMENT THREE
CHRISTOPHER B. BURKE ENGINEERING, LTD.'S
PROPOSAL DATED JULY 12, 2019



CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 W Higgins Road, Suite 600 Rosemont, Illinois 60018-4920 Tel (847) 823-0500 Fax (847) 823-0520

July 12, 2019

Village of Wilmette
1200 Wilmette Avenue
Wilmette, IL 60091

Attention: Mr. Dan Manis, PE – Village Engineer

Subject: Proposal for Professional Engineering Services
WSNSP Contract #1A - Phase III Services

Dear Mr. Manis:

Christopher B. Burke Engineering, Ltd. (CBBEL) is pleased to provide this proposal for professional engineering services related to the West Side Neighborhood Storage Project, Contract #1A in the Village of Wilmette (Village). Included in this proposal is our Understanding of Assignment, Scope of Services, and Estimated Fee.

UNDERSTANDING OF THE ASSIGNMENT

The work consists of installation of storm sewer ranging in size from 12" diameter to 48" diameter PVC and RCP pipe, trench backfill, sanitary service reconnections, water service reconnections, installation of 8" diameter PVC sanitary sewer, manholes, catch basins, inlets, DIP Water Main, 8", resurfacing of existing pavement, spot curb removal and replacement, pavement reconstruction with full curb and gutter removal and replacement, sidewalk removal and replacement with widening, and ADA upgrades.

The project is located on Lavergne Ave. from Wilmette Ave. to Lacrosse Ave., Washington Ave. from Lavergne Ave. to Lamon Ave., Lamon Ave. from Washington Ave. to Lacrosse Ave, Romona Rd. from Lake Ave. to Blackhawk Rd., Blackhawk Rd. from Romona Rd. to Seminole Rd. and Orchard Ln. from Romona Ave. to Redbud Ln. In the Village of Wilmette, Cook County, Illinois. The gross and net length of the project is 4817 feet (0.90 miles).

SCOPE OF SERVICES

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

Task 1 – Pre-Construction:

1. Review the Contractor's schedule for compliance with any milestones and/or restrictions found in the contract documents. CBBEL will review the schedule for constructability to ensure that the work is being completed in a logical sequence.
2. Prepare all project files prior to the start of construction. This shall include reviewing all applicable construction inspectors' checklists found in IDOT's Construction Manual to anticipate any issues that may arise during construction.
3. Review the plans and specifications and identify any potential issues or conflicts that can be resolved prior to construction. This will assist in avoiding unnecessary delays and change orders.
4. Facilitate the Pre-Construction Meeting.

Task 2 – Submittal Review

CBBEL's staff will assist the RE in reviewing shop drawings for the junction box structures, and other elements as required. CBBEL proposes to use Projectwise software to manage submittal correspondence for the WSNP Contract #1A.

1. Check and approve, or reject and request resubmittal of, any submittals made by the Contractor for compliance with the contract documents.
2. Shop Drawings and Contractor Submittals:
 - a. Record data received, maintain a file of drawings and submissions, and check construction for compliance with them.
 - b. Review Contractor's submittals for compliance with contract documents. Notify the Village of any deviations or substitutions. With the notification, provide the Village with a recommendation for acceptance or denial, and request direction from the Village regarding the deviation or substitution.

Task 3 – Request for Information (RFI) Responses

CBBEL staff will review and coordinate responses to any RFI from the Contractor in a timely manner and maintain a separate file for each request. CBBEL proposes to use Projectwise software to manage RFI correspondence for the WSNP Contract #1A.

Task 4 – Construction Observation

1. Observe the progress and quality of the executed work. Determine if the work is proceeding in accordance with the Contract Documents. CBBEL shall keep the Village informed of the progress of the work, guard the Village against defects and deficiencies in the work, and advise the Village of all observed deficiencies of the work and disapprove or reject all work failing to conform to the Contract Documents.

2. Provide extensive on-site observations of the work in progress and field checks of materials and equipment through an RE and Inspector (if necessary), who shall:
 - Serve as the Village's liaison with the Contractor working principally through the Contractor's field superintendent.
 - Be present whenever the Contractor is performing work on-site, associated with the project.
 - Cooperate with the Contractor in dealing with the County and various local agencies and utility companies having jurisdiction over the Project.
 - Record names, addresses and telephone numbers of all Contractors, subcontractors, and major material suppliers.
 - Attend all construction conferences. Arrange weekly progress meetings and other job conferences if required. Maintain and circulate copies of records of the meetings.
 - Review Contractor's progress on a weekly basis and update the progress schedule. Compare actual progress to the Contractor's approved schedule. If the project falls 14 calendar days behind schedule, work with the Contractor to determine the appropriate course of action to get back on schedule. The Contractor is required to submit a revised schedule for approval prior to further payments being made.
 - Maintain orderly files of correspondence, reports of job meetings, shop drawings and other submissions, RFI responses, original contract documents including all addenda, change orders and additional drawings issued after the award of the contract.
 - Prepare any contract changes needed as construction proceeds. Once the Contractor submits a proposal, assist the Village in their review and provide a recommendation.
3. Determine if the project has been completed in accordance with the contract documents and if the Contractor has fulfilled all obligations.
4. Except upon written instruction of the Village, the RE or Inspector shall not authorize any deviation from the Contract Documents.
5. Alert the Contractor's field superintendent when materials or equipment are being installed before approval of shop drawings or samples, where such are required, and advise the Village when it is necessary to disapprove work as failing to conform to the Contract Documents.
6. Discuss the truck routes with the Contractor and monitor that the identified routes are being used.
7. All CBBEL personnel and their sub-consultants will comply with the Village's current safety guidelines.

Task 5 – Construction Documentation

1. Keep an Inspector's daily report book and project diary in the Village's format, recording hours on the job site, weather conditions, general and specific observations, daily activities, quantities placed, inspections, decisions, and list of visiting officials, as outlined in IDOT's Construction Manual. Additionally, prepare photo documentation of construction to be submitted in both hard and digital formatting.
2. Prepare payment requisitions and change orders. Review applications for payment with the Contractor for compliance with established submission procedure and forward them with recommendations to the Village.

3. Schedule any material testing at the frequency required by IDOT's QC/QA provisions. Also obtain and document all material inspection received from the Contractor as outlined in the Project Procedures Guide of IDOT's Construction Manual.
4. Prepare a monthly written update to the Village summarizing the Project status, costs and schedule.

Task 6 – Project Closeout

1. Prior to final inspection, submit to the Contractor a list of observed items requiring correction and verify that each correction has been made.
2. Conduct final inspection with the Village and prepare a final punch list of items to be corrected.
3. Verify that all items on the final punch list have been corrected and make recommendations to the Village concerning acceptance.
4. Prepare final pay estimate and change order(s) for the Village's approval.
5. Verify all necessary material inspection has been received and documented.
6. Submit the job box to the Village with all pertinent project information.

Task 7 – Record Drawings

1. CBBEL will maintain a set of working drawings showing changes in the work during construction.
2. CBBEL will prepare a set of as-built drawings delivered in AutoCAD and Shapefile format.

Task 8 – Material QA Testing

1. Testing Services Corporation, Inc. (TSC) will provide QA testing outlined in the IDOT Project Procedures Guide. Proposed testing for this project includes HMA, PCC, and Trench Backfill Quality Assurance.
2. The following items are not included:
 - I. QA plant testing
 - II. Soil analysis
 - III. Additional testing required for Change Order or Contingency Allowance items.

Task 9 – Public Outreach

CBBEL will keep the public aware of the construction activities, as required. This will include, but not be limited to, notification of construction starting, detours and/or road closures, and access limitations. The Resident Engineer (RE) will also be available throughout the construction project to address any questions or concerns area residents and/or businesses may have. Our policy is to respond to all questions or concerns within one business day. Extraordinary inquiries or requests will be coordinated with Village staff.

Additional public outreach for the WSNSP Contract #1A will include the following:

1. Project website
 - i. CBBEL will create and maintain a project specific website to be updated periodically, which will include the following:
 1. General project information
 2. Weekly Updates
 3. Project photos
 4. Contact Information
2. Weekly updates
 - i. CBBEL will distribute project updates using Constant Contact to residents that sign up for newsletter updates.

ESTIMATED FEE

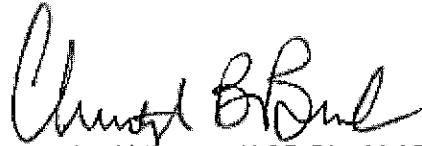
The costs of the services provided are as follows and will not be exceeded without prior approval:

Task	Description	Cost
Task 1	Pre-Construction	\$ 10,598.33
Task 2	Submittal Review	\$ 2,474.76
Task 3	Request for Information (RFI) responses	\$ 2,474.76
Task 4	Construction Observation	\$ 173,044.13
Task 5	Construction Documentation	\$ 35,884.03
Task 6	Project Closeout	\$ 20,497.37
Task 7	Record Drawings	\$ 17,047.76
Task 8	Material QA Testing	\$ 10,100.00
Task 9	Public Outreach	\$ 9,224.55
	Total:	\$281,345.69

We will bill you at the hourly rates specified on the attached Cost Estimate of Consultant Services using a 2.6 Direct Labor Multiplier, and establish our contract in accordance with the previously agreed upon General Terms and Conditions. Direct costs for blueprints, photocopying, mailing, mileage, overnight delivery, permit fees, data collection fees, messenger services and report compilation are included in the fee estimate. These General Terms and Conditions are expressly incorporated in and are an integral part of this contract for professional services. It should be emphasized that any additional requested meetings or additional services are not included in the preceding fee estimate and will be billed at the attached rates.

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

Sincerely,



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

Encl. Cost Estimate of Consultant Services
General Terms and Conditions

THIS PROPOSAL AND GENERAL TERMS AND CONDITIONS ACCEPTED FOR THE VILLAGE OF WILMETTE:

BY: _____

TITLE: _____

DATE: _____



Christopher B. Burke Engineering, Ltd.
Illinois Department
of Transportation

Christopher B. Burke Engineering, Ltd.
Construction Engineering
Route _____
Section _____
County _____
Job No. _____
PTB & Item _____

Christopher B. Burkes Engineering, Ltd.
Construction Engineering

Fam
Route

Cost Estimate of Consultant Services

[Blank Letter Multiscript]

四

卷之三

三

Overhead Rate

Complexity Factor

卷之三

Construction Engineering Monthly Hour Breakdown
Village of Wilmette - WSNSP

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Pre-Construction			Construction			Yearly Total
									Sept.	Oct.	Nov.	Dec.			
CBS															
PHI															
PHIA - CBS															
PHIA - CBB															
Inspector															
Admin															
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	716

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Post-Construction / Record Drawings			Construction			Yearly Total
									Sept.	Oct.	Nov.	Dec.			
CBS															
PHI															
RE															
Inspector															
Survey															
Total	48	48	144	358	358	211	168	128	0	0	0	0	0	0	1488

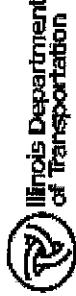
Assumptions

Site work = 50 Hrs / Week during Construction

*Winter shutdown is assumed to occur from mid-December through mid-March. CBBEL has not budgeted hours for Construction Observation during this period. Additional hours would be required to perform Construction Observation during this period should the Contractor be working on site.

**Inspector hours during April/May 2020 are an estimate towards proposed Lake Avenue water main work. The design is not complete as of 07/2019.

2204



Route Construction Engineering
Section

County _____
Job No. _____
PTB Item _____

Average Hourly Project Rates

Consultant Christopher B. Burke Engineering, Ltd. _____

Date 07/15/19

Sheet 2 OF 1

Payroll Classification	Avg Hourly Rates	Project Closeout Hours	% Part.	Wghtd Avg	Record Drawings Hours	% Part.	Wghtd Avg	Material Testing (QA) Hours	% Part.	Wghtd Avg	Public Outreach Hours	% Part.	Wghtd Avg	Hours	% Part.	Wghtd Avg	Hours	% Part.	Wghtd Avg
PRINCIPAL	\$75.00																		
ENGINEER VI	\$73.00	4	2.44%	1.64															
ENGINEER V	\$67.24																		
ENGINEER IV	\$55.45																		
ENGINEER III	\$47.59	160	97.56%	46.43	40	31.25%	14.87												
ENGINEER II	\$33.71																		
SURVEY V	\$75.00																		
SURVEY IV	\$66.75																		
SURVEY III*	\$58.85																		
SURVEY II*	\$44.13																		
SURVEY I*	\$35.16																		
ENGINEERING TECHNICIAN	\$66.01																		
ENGINEERING TECHNICIAN	\$49.17																		
ENGINEERING TECHNICIAN	\$35.42																		
ENGINEERING TECHNICIAN	\$21.06																		
CAD MANAGER	\$62.93																		
ASST. CAD MANAGER	\$52.31																		
CAD II*	\$47.82																		
GIS SPECIALIST III*	\$48.94																		
GIS SPECIALIST III*	\$32.61																		
LANDSCAPE ARCHITECT	\$66.56																		
ENVIRONMENTAL RESOURCE	\$68.81																		
ENVIRONMENTAL RESOURCE	\$54.14																		
ENVIRONMENTAL RESOURCE	\$41.45																		
ENVIRONMENTAL RESOURCE	\$31.72																		
ENVIRONMENTAL RESOURCE	\$39.24																		
ADMINISTRATIVE*	\$36.97																		
ENGINEERING INTERN	\$16.31																		
TOTALS	164	100%	\$48.07	128	100%	\$51.23	0	0%	\$0.00	88	100%	\$40.32	0	0%	\$0.00	0	0%	\$0.00	



Illinois Department
of Transportation

Payroll Rates

FIRM NAME
PRIME/SUPPLEMENT
PTB NO.

Christopher B. Burke Engineers

DATE 07/15/19

ESCALATION FACTOR 1.91%

CLASSIFICATION	CURRENT RATE	ESCALATED RATE
PRINCIPAL	\$75.00	\$75.00
ENGINEER VI	\$74.56	\$75.00
ENGINEER V	\$65.98	\$67.24
ENGINEER IV	\$54.41	\$56.45
ENGINEER III	\$46.70	\$47.59
ENGINEER II*	\$33.08	\$33.71
SURVEY V	\$74.00	\$75.00
SURVEY IV	\$65.50	\$66.75
SURVEY III	\$57.75	\$58.85
SURVEY II*	\$43.30	\$44.13
SURVEY I*	\$34.50	\$35.16
ENGINEERING TECHNICIAN V	\$64.77	\$66.01
ENGINEERING TECHNICIAN IV	\$48.25	\$49.17
ENGINEERING TECHNICIAN III	\$51.44	\$52.42
ENGINEERING TECHNICIAN II*	\$20.67	\$21.06
CAD MANAGER	\$61.75	\$62.93
ASST. CAD MANAGER	\$51.33	\$52.31
CAD II *	\$46.92	\$47.82
GIS SPECIALIST III	\$49.00	\$49.94
GIS SPECIALIST II*	\$32.00	\$32.61
LANDSCAPE ARCHITECT	\$55.50	\$56.56
ENVIRONMENTAL RESOURCE SPECIALIST V	\$68.50	\$69.81
ENVIRONMENTAL RESOURCE SPECIALIST IV	\$53.13	\$54.14
ENVIRONMENTAL RESOURCE SPECIALIST III	\$40.67	\$41.45
ENVIRONMENTAL RESOURCE SPECIALIST II*	\$31.13	\$31.72
ENVIRONMENTAL RESOURCE TECHNICIAN*	\$38.50	\$39.24
ADMINISTRATIVE*	\$36.28	\$36.97
ENGINEERING INTERN	\$16.00	\$16.31
	\$0.00	
	\$0.00	
	\$0.00	
	\$0.00	
	\$0.00	
	\$0.00	



Payroll Escalation Table
Fixed Raises
DLM 2.60

FIRM NAME Christopher B. Burke Engineering, Ltd.

PRIMER/SUPPLEMENT

CONTRACT TERM	<u>11</u>	MONTHS
START DATE	<u>8/1/2019</u>	
Raise Date	<u>1/1/2020</u>	

DATE 07/15/19

PTB NO.

OVERHEAD RATE	<u>129.33%</u>
COMPLEXITY FACTOR	<u> </u>
% OF RAISE	<u>3.00%</u>

ESCALATION PER YEAR

<u>9/1/2019</u>	-	<u>1/1/2020</u>	<u>1/2/2020</u>	-	<u>8/1/2020</u>
<u>4</u>			<u>7</u>		
<u>11</u>			<u>11</u>		
<u>x</u>	<u>36.36%</u>		<u>65.55%</u>		

The total escalation for this project would be:
1.91%



TESTING SERVICE CORPORATION

Corporate Office

360 South Main Place, Carol Stream, IL 60188-2404
630.462.2600 • Fax 630.653.2988

July 9, 2019

Mr. Kevin Wilson
Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road Suite 600
Rosemont, IL 60018-4920

RE: P.N. 63,307- Revised
Construction Material Engineering
Neighborhood Stormwater Storage
Wilmette, IL

Dear Mr. Wilson:

Per your request, Testing Service Corporation (TSC) is pleased to submit this proposal to provide the Construction Materials Engineering Services that will be requested by you for the above referenced project. The broad objectives of our work will be to conduct and interpret tests and report our findings as directed by Christopher B. Burke Engineering, Ltd..

TSC is staffed and equipped to provide any of the following services that may be ordered by you:

- **Field Quality Control Services**
 - Observe proof-rolling operations.
 - Recommend amount of undercut using IDOT cone penetrometer procedure.
 - Perform in-place density tests on engineered fill/backfill and granular base course
 - Test plastic concrete for slump, air content, temperature, unit weight and cast test cylinders.
 - Establish rolling pattern for bituminous concrete pavement mix with nuclear density gauge.
 - Pickup samples in the field for laboratory tests.
- **Bituminous Concrete Batch Plant Quality Control Services**
 - Daily hot bin and extraction analysis.
 - Sampling and testing of stockpile materials.
 - Check and adjust mixing formulas, as necessary.
 - Check temperatures of bitumen, drum and final mix.
 - Mold Marshall samples and check for stability and flow or determine density of Prepared (HMA) specimen by means of Gyratory Compactor.
 - Other tests as required by current IDOT procedures guide.
- **Portland Cement Concrete Batch Plant Quality Control Services**
 - Verify that current IDOT mix design is being used.
 - Check moisture content of fine aggregate.
 - Perform sieve analysis on stockpiled materials, as required by IDOT criteria.
 - Check the slump, air and temperature of final mix.
 - Other tests, as required by current IDOT procedure guide.

- **Laboratory**
 - Perform laboratory compaction curve for each soil type used.
 - Determine density and thickness for core samples submitted by contractor.
 - Aggregate gradation and soundness analysis.
 - Perform compressive and flexural strength tests for concrete cylinders and beams.
 - Other tests, as required.
- **QA Manager Services**
 - Review test results performed by our technicians in accordance with IDOT specification
 - Monitor and schedule site visits to test 20% of the total quantities for HMA and PCC mixes
 - Complete the necessary paperwork for PCC and HMA testing and electronically submit them to IDOT and your office.

TSC's field technicians are represented by Local 150 of the International Union of Operating Engineers. Supervision of the testing, observation and reporting is provided by a Registered Professional Engineer. Reports will generally be issued on a weekly basis as work progresses. Invoices will be issued monthly, subsequent to the reporting period.

A budget amount of Ten Thousand One Hundred Dollars (\$10,100.00) is recommended for your project. This estimate is based on a review of plans and specifications provided by Christopher B. Burke Engineering, Ltd. and prior experience on similar projects. TSC's itemized estimate is included in the "Assumptions and Estimated Fee" portion of this proposal. Factors such as weather, contractor efficiency and deviations from minimum testing and observation requirements may significantly impact the CME budget. Our fee is further subject to this proposal being accepted by you on or before December 31, 2019.

The Services performed by TSC under this proposal are subject to prevailing wage regulations under Illinois law. Prevailing wage rates are established in June by the State of Illinois. Should the established wage be changed between the time of this proposal and the time of work, it will be necessary to revise this proposal so that the rates required by law are properly reflected. Prevailing wage categories are defined as follows:

Material Tester I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

Material Tester II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete and concrete and asphalt batch plants, adjusting proportions of bituminous mixtures.

TSC's fees include TSC's services being performed subject to the attached General Conditions which are incorporated herein. Unless we receive written instructions to the contrary, invoices will be sent to:

Mr. Kevin Wilson
Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road Suite 600
Rosemont, IL 60018-4920
Tel: (847) 823-0500
email: kwilson@cbbel.com

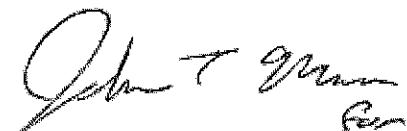
Christopher B. Burke Engineering, Ltd.
P.N. 63,307 - July 9, 2019

When completing the attached project data form, kindly indicate who is to receive copies of TSC's report and other project data.

Your consideration of our proposal is appreciated. We look forward to being of service to you on this project.

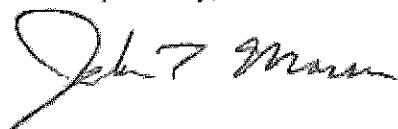
Respectfully Submitted

TESTING SERVICE CORPORATION



Jeffrey R. Schmitz, P.E.
Project Engineer

Prepared by,



John T. Massa, P.E.
President

JTM:JRS:jm

Enc: General Conditions
Project Data Sheet

Approved and accepted for _____ by:

(NAME)

(TITLE)

(DATE)

SCHEDULE OF CHARGES

ITEM I FIELD SERVICES

A. Material Tester I Per Hour: \$ 110.00

B. Material Tester II Per Hour: \$ 110.00

C. Transportation, Light Vehicle Per Trip: \$ 50.00

The time is portal-to-portal from the office servicing the project.

Increase hourly rate by 1.5 for over 8.0 hours per day or Saturday.

Increase hourly rate by 1.7 for Sunday or Holiday work.

The minimum trip charge for 0 to 4 hours is four (4) hours and for

4 to 8 hours is eight (8) hours Monday through Friday and eight (8)

hours on Saturday and Sunday.

Engineering services for summary report preparation are invoiced
at the Graduate Engineer Rate.

D. Use of Nuclear Moisture/Density Gauge Per Day: \$ 50.00

E. Pickup Concrete Test Samples

1. Fewer than 20 Cylinders at Grade Level Per Trip: \$ 100.00

2. 20 or more Cylinders or Cylinders in Basement or on
Elevated Deck or Concrete Beams Per Trip: \$ 150.00

F. Structural Steel Test Equipment

1. Ultrasonic Flaw Detector Per Day: \$ 50.00

2. Magnetic Particle Yoke Per Day: \$ 35.00

G. Fire-Proofing

1. Cohesion Test Supplies Per Day: \$ 60.00

2. Density Test Each: \$ 45.00

ITEM II LABORATORY SERVICES

A. Soils

1. Compaction Curve to establish the Maximum Dry Unit
weight and optimum water content

a. Modified (AASHTO T180, ASTM D1557) Each: \$ 200.00

b. Standard(AASHTO T99, ASTM D698) Each: \$ 190.00

c. Add for Methods B, C, or D Each: \$ 20.00

2. Thin-Walled Tube Samples			
a. Combined Water Content & Dry Unit Weight Determination	Each:	\$	18.00
b. Unconfined Compressive Strength	Each:	\$	12.00

B. Portland Cement Concrete/Aggregates

1. Concrete Test Cylinders (4"x8")			
a. Compressive Strength	Each:	\$	15.00
b. Spares/Handling Charge	Each:	\$	15.00
c. Trim End of Specimen When NecessaryAdditional:		\$	10.00
2. Concrete Test Cylinders (6"x12")			
a. Compressive Strength	Each:	\$	18.50
b. Spares/Handling Charge	Each:	\$	18.50
c. Trim End of Specimen When NecessaryAdditional:		\$	10.00
3. Concrete Beams for Flexural Strength Testing	Each:	\$	50.00
4. Mortar Cubes			
a. Compressive Strength	Each:	\$	18.50
b. 2" Cube Mold	Per Day:	\$	8.00
5. Contractor Made Cylinders	Each:	\$	30.00
a. Trim End of Specimen When NecessaryAdditional:		\$	10.00
6. Evaluation of Mortars for Plain & Reinforced Masonry			
a. Pre-Construction	Each:	\$	360.00
b. Cement/Aggregate Ratio	Each:	\$	50.00
7. Masonry Block Prisms	Each:	\$	50.00
8. Sieve Analysis			
a. Washed w/200 Sieve	Each:	\$	100.00
b. Unwashed	Each:	\$	75.00

C. Bituminous Concrete

1. Extraction Analysis			
a. Unwashed	Each:	\$	185.00
b. Washed	Each:	\$	205.00
2. Compaction of Bituminous Mixture by Gyratory Methods and Bulk Specific Gravity Test	Set of Two	\$	185.00
3. Theoretical Maximum Specific Gravity of Paving Mixture	Each:	\$	90.00
4. Determining Asphalt Content by Ignition Oven:	Each:	\$	100.00

5. Determining Asphalt Content by Ignition Oven and Washed Gradation:	Each:	\$ 175.00
6. Bulk Density of Core Specimens	Each:	\$ 45.00

ITEM III CONSULTATION AND REPORT PREPARATION

A. Registered Professional Engineer, Principal	Per Hour:	\$ 200.00
B. Registered Professional Engineer	Per Hour:	\$ 160.00
C. Graduate Civil Engineer	Per Hour:	\$ 140.00
D. Daily Engineering Services	Per Hour:	\$ 140.00
D. Transportation		
1. Light Vehicle	Trip Charge:	\$ 50.00
2. Light Vehicle (Over 100 miles round trip)	Per Mile:	\$ 0.60
3. Public Transportation		Cost + 10%

The above rates are valid through December 31, 2019.

ASSUMPTIONS & ESTIMATED FEE

The following estimate is based on review of materials quantities provided by the Christopher B. Burke Engineering, Ltd. and the Illinois Department of Transportation's Project Procedures Guide. At the time this estimate was prepared the contractor's schedule was not available. The unit prices used below are based on our current cost structure.

Portland Cement Concrete/Field					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Material Tester I	Hour	16.0	110.00	\$ 1,760.00
2	Material Tester I, Overtime	Hour		165.00	\$ 0.00
3	Travel, Light Vehicle	Trip	4	50.00	\$ 200.00
4	Pickup Test Samples	Each	4	100.00	\$ 400.00
5	Concrete Test Cylinders (6"x 12")	Each	16	18.50	\$ 296.00
6	Concrete Test Cylinders (4"x 8")	Each		15.00	\$ 0.00
7	Sieve Analysis, Aggregate	Each		100.00	\$ 0.00
					Sub-Total: \$ 2,656.00

Estimate Basis: Four site visits to test and sample concrete placed for sidewalks (2 trips) and combination curb and gutter (2 trips).

Bituminous Concrete/Field					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Material Tester I	Hour	12.0	110.00	\$ 1,320.00
2	Material Tester I, Overtime	Hour		165.00	\$ 0.00
3	Travel, Light Vehicle	Trip	3	50.00	\$ 150.00
4	Pickup Test Samples	Each		100.00	\$ 0.00
5	Nuclear Moisture Density Gauge	Day	3	50.00	\$ 150.00
6	Bituminous Concrete Extraction Analysis	Each		185.00	\$ 0.00
7	Compaction of Bituminous Mixture by Gyratory Methods and Bulk Specific Gravity Test	Set of Two		185.00	\$ 0.00
8	Density of Core Sample	Each		45.00	\$ 0.00
					Sub-Total: \$ 1,620.00

Estimate Basis: Three site visits to monitor the compaction of HMA mixes placed for leveling binder (1 trip), N50 binder course (1 trip), and N50 surface course (1 trip).

Christopher B. Burke Engineering, Ltd.
P.N. 63,307 - July 9, 2019

Trench Backfill					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Material Tester II	Hour	32.0	110.00	\$ 3,520.00
2	Material Tester II, Overtime	Hour		165.00	\$ 0.00
3	Travel, Light Vehicle	Trip	8	50.00	\$ 400.00
4	Nuclear Moisture Density Gauge	Day	8	50.00	\$ 400.00
5	Soil, Water Content and Dry Unit Weight Determination	Each		18.00	\$ 0.00
6	Laboratory Compaction Curve (Standard)	Each	1	180.00	\$ 180.00
7	Sieve Analysis, Aggregate	Each	2	100.00	\$ 200.00
Sub-Total:					\$ 4,700.00

Estimate Basis: Sewer installation will begin this fall, shut down over winter and resume in the spring. A total of 8 trips is included in the above table for obtaining a proctor, some gradation testing and spot checks on compaction.

Project Coordination & Report Preparation					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Project Engineer	Hour	7	160.00	\$ 1,120.00
2	QA Manager	Hour	0	140.00	\$ 0.00
Sub-Total:					\$ 1,120.00

TSC's base fee schedule includes up to three copies of each report.

Estimated Total: \$ 10,096.00

RECOMMENDED BUDGET: \$ 10,100.00



TESTING SERVICE CORPORATION

1. PARTIES AND SCOPE OF WORK: If Client is ordering the services on behalf of another, Client represents and warrants that Client is the duly authorized agent of said party for the purpose of ordering and directing said services, and in such case the term "Client" shall also include the principal for whom the services are being performed. Prices quoted and charged by TSC for its services are predicated on the conditions and the allocations of risks and obligations expressed in these General Conditions. Unless otherwise stated in writing, Client assumes sole responsibility for determining whether the quantity and the nature of the services ordered by Client are adequate and sufficient for Client's intended purpose. Unless otherwise expressly assumed in writing, TSC's services are provided exclusively for Client. TSC shall have no duty of mitigation other than those duties and obligations expressly set forth in this Agreement. TSC shall have no duty to any third party. Client shall communicate these General Conditions to each and every party to whom the Client transmits any report prepared by TSC. Ordering services from TSC shall constitute acceptance of TSC's proposal and these General Conditions.

2. SCHEDULING OF SERVICES: The services set forth in this Agreement will be accomplished in a timely and workmanlike manner. If TSC is required to delay any part of its services to accommodate the requests or requirements of Client, regulatory agencies, or third parties, or due to any cause beyond its reasonable control, Client agrees to pay such additional charges, if any, as may be applicable.

3. ACCESS TO SITE: TSC shall take reasonable measures and precautions to minimize damage to the site and any improvements located thereon as a result of its services or the use of its equipment; however, TSC has not included in its fee the cost of restoration of damage which may occur. If Client desires or requires TSC to restore the site to its former condition, TSC will, upon written request, perform such additional work as is necessary to do so and Client agrees to pay to TSC the cost thereof plus TSC's normal markup for overhead and profit.

4. CLIENT'S DUTY TO NOTIFY ENGINEER: Client represents and warrants that Client has advised TSC of any known or suspected hazardous materials, utility lines and underground structures at any site at which TSC is to perform services under this Agreement. Unless otherwise agreed in writing, TSC's responsibility with respect to underground utility locations is to contact the Illinois Joint Utility Locating Information for Excavators for the location of public, but not private, utilities.

5. DISCOVERY OF POLLUTANTS: TSC's services shall not include investigation for hazardous materials as defined by the Resource Conservation Recovery Act, 42 U.S.C. § 6901, et seq., as amended ("RCRA") or by any state or Federal statute or regulation. In the event that hazardous materials are discovered and identified by TSC, TSC's sole duty shall be to notify Client.

6. MONITORING: If this Agreement includes testing construction materials or observing any aspect of construction of improvements, Client's construction personnel will verify that the pad is properly located and sized to meet Client's projected building loads. Client shall cause all tests and inspections of the site, materials and work to be timely and properly performed in accordance with the plans, specifications, contract documents, and TSC's recommendations. No claims for loss, damage or injury shall be brought against TSC unless all tests and inspections have been so performed and unless TSC's recommendations have been followed.

TSC's services shall not include determining or implementing the means, methods, techniques or procedures of work done by the contractor(s) being monitored or whose work is being tested. TSC's services shall not include the authority to accept or reject work or to in any manner supervise the work of a licensee of TSC. TSC's services or failure to

perform same shall not in any way operate or excuse any contractor from the performance of its work in accordance with its contract. "Contractor" as used herein shall include subcontractors, suppliers, architects, engineers and construction managers.

Information obtained from borings, observations and analyses of sample materials shall be reported in formats considered appropriate by TSC unless directed otherwise by Client. Such information is considered evidence, but any inference or conclusion based thereon is, necessarily, an opinion also based on engineering judgment and shall not be construed as a representation of fact. Subsurface conditions may not be uniform throughout an entire site and ground water levels may fluctuate due to climatic and other variations. Construction materials may vary from the samples taken. Unless otherwise agreed in writing, the procedures employed by TSC are not designed to detect intentional concealment or misrepresentation of facts by others.

7. DOCUMENTS AND SAMPLES: Client is granted an exclusive license to use findings and reports prepared and issued by TSC and any sub-consultants pursuant to this Agreement for the purpose set forth in TSC's proposal provided that TSC has received payment in full for its services. TSC and, if applicable, its sub-consultant, retain all copyright and ownership interests in the reports, boring logs, maps, field data, field notes, laboratory test data and similar documents, and the ownership and freedom to use all data generated by it for any purpose. Unless otherwise agreed in writing, test specimens or samples will be disposed immediately upon completion of the test. All drilling samples or specimens will be disposed of by (60) days after submission of TSC's report.

8. TERMINATION: TSC's obligation to provide services may be terminated by either party upon (7) seven days prior written notice. In the event of termination of TSC's services, TSC shall be compensated by Client for all services performed up to and including the termination date, including reimbursable expenses. The terms and conditions of these General Conditions shall survive the termination of TSC's obligation to provide services.

9. PAYMENT: Client shall be invoiced periodically for services performed. Client agrees to pay each invoice within thirty (30) days of its receipt. Client further agrees to pay interest on all amounts invoice and not paid or objected to in writing for valid cause within sixty (60) days at the rate of twelve (12%) per annum (or the maximum interest rate permitted by applicable law, whichever is the lesser) until paid and TSC's costs of collection of such accounts, including court costs and reasonable attorney's fees.

10. WARRANTY: TSC's professional services will be performed. Its findings obtained and its reports prepared in accordance with these General Conditions and with generally accepted principles and practices. In performing its professional services, TSC will use that degree of care and skill ordinarily exercised under similar circumstances by members of its profession. In performing physical work in pursuit of its professional services, TSC will use that degree of care and skill ordinarily used under similar circumstances. This warranty is in lieu of all other warranties or representations, either express or implied. Statements made in TSC reports are opinions based upon engineering judgment and are not to be considered as representations of fact.

Should TSC or any of its employees be found to have been negligent in performing professional services or to have made and breached any express or implied warranty, representation or contract, Client, all parties claiming through Client and all parties claiming to have in any way relied upon TSC's services or work agree that the maximum aggregate amount of damages for which TSC, its officers, employees and agents shall be liable is limited to \$50,000 or the total amount of the fee paid to TSC for its services performed with respect to the project, whichever amount is greater.

GENERAL CONDITIONS

Geotechnical and Construction Services

In the event Client is unwilling or unable to limit the damages for which TSC may be liable in accordance with the provisions set forth in the preceding paragraph, upon written request of Client received within five days of Client's acceptance of TSC's proposal together with payment of an additional fee in the amount of 5% of TSC's estimated cost for its services (to be adjusted to 5% of the amount actually billed by TSC for its services on the project at time of completion), the limit on damages shall be increased to \$500,000 or the amount of TSC's fee, whichever is the greater. This charge is not to be construed as being a charge for insurance of any type, but is increased compensation for the exposure to an award of greater damages.

11. INDEMNITY: Subject to the provisions set forth herein, TSC and Client hereby agree to indemnify and hold harmless each other and their respective shareholders, directors, officers, partners, employees, agents, subsidiaries and division (and each of their heirs, successors, and assigns) from any and all claims, demands, liabilities, suits, causes of action, judgments, costs and expenses, including reasonable attorneys' fees, arising, or allegedly arising, from personal injury, including death, property damage, including loss of use thereof, due in any manner to the negligence of either of them or their agents or employees or independent contractors. In the event both TSC and Client are found to be negligent or at fault, then any liability shall be apportioned between them pursuant to their pro rata share of negligence or fault. TSC and Client further agree that their liability to any third party shall, to the extent permitted by law, be several and not joint. The liability of TSC under this provision shall not exceed the policy limits of insurance carried by TSC. Neither TSC nor Client shall be bound under this indemnity agreement to liability determined in a proceeding in which it did not participate represented by its own independent counsel. The indemnities provided hereunder shall not terminate upon the termination or expiration of this Agreement, but may be modified to the extent of any waiver of subrogation agreed to by TSC and paid for by Client.

12. SUBPOENAS: TSC's employees shall not be retained as expert witnesses except by separate, written agreement. Client agrees to pay TSC pursuant to TSC's then current fee schedule for any TSC employee(s) subpoenaed by any party as an occurrence witness as a result of TSC's services.

13. OTHER AGREEMENTS: TSC shall not be bound by any provision or agreement (i) requiring or providing for arbitration of disputes or controversies arising out of this Agreement or its performance, (ii) wherein TSC waives any rights to a mechanics lien or surety bond claim; (iii) that conditions TSC's right to receive payment for its services upon payment to Client by any third party or (iv) that requires TSC to indemnify any party beyond its own negligence. These General Conditions are final, where required, that TSC shall file a lien whenever necessary to collect past due amounts. This Agreement contains the entire understanding between the parties. Unless expressly accepted by TSC in writing prior to delivery of TSC's services, Client shall not add any conditions or impose conditions which are in conflict with those contained herein, and no such additional or conflicting terms shall be binding upon TSC. The unenforceability or invalidity of any provision or provisions shall not render any other provision or provisions unenforceable or invalid. This Agreement shall be construed and enforced in accordance with the laws of the State of Illinois. In the event of a dispute arising out of or relating to the performance of this Agreement, the breach thereof or TSC's services, the parties agree to try in good faith to settle the dispute by mediation under the Construction Industry Mediation Rules of the American Arbitration Association as a condition precedent to filing any demand for arbitration, or any petition or complaint with any court. Paragraph headings are for convenience only and shall not be construed as limiting the meaning of the provisions contained in these General Conditions.

PROJECT DATA SHEET



TESTING SERVICE CORPORATION

General Information: _____

Project Name: _____

Project Address: _____

City/State/Zip: _____

County: _____

Project Manager: _____

Email: _____

Telephone: _____

Site Contact: _____

Email: _____

Telephone: _____

Send Invoice to: _____

Purchase Order Number: _____

Attention: _____

Company: _____

Address: _____

City/State/Zip: _____

Email: _____

Telephone: _____

Cell Phone: _____

IMPORTANT NOTES: _____

Completed by: _____

Signature: _____

Name: _____

Date: _____

Distribute Reports as Follows:

Name: _____

Company: _____

Address: _____

City/State/Zip: _____

Email: _____

Telephone: _____

Cell Phone: _____

Name: _____

Company: _____

Address: _____

City/State/Zip: _____

Email: _____

Telephone: _____

Name: _____

Company: _____

Address: _____

City/State/Zip: _____

Email: _____

Telephone: _____

Name: _____

Company: _____

Address: _____

City/State/Zip: _____

Email: _____

Telephone: _____

END OF DOCUMENT