

Local Agency Village of Orland Park	LOCAL AGENCY	 Illinois Department of Transportation Preliminary Engineering Services Agreement For Federal Participation	CONSULTANT	Consultant Strand Associates, Inc.
County Cook				Address 1170 Houbolt Road
Section 12-00069-00-CH				City Joliet
Project No. M-4003(032)				State IL
Job No. D-91-447-12				Zip Code 60431
Contact Name/Phone/E-mail Address Kurt Corrigan 708-403-6123 kcorrigan@orlandpark.org				Contact Name/Phone/E-mail Address Marc Grigas, P.E. 815/744-4200 marc.grigas@strand.com

THIS AGREEMENT is made and entered into this _____ day of _____, _____ between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the PROJECT. Federal-aid funds allotted to the LA by the state of Illinois under the general supervision of the Illinois Department of Transportation (STATE) will be used entirely or in part to finance engineering services as described under AGREEMENT PROVISIONS.

Project Description

Name Ravinia Avenue Route FAU1709 Length N/A Structure No. N/A

Termini At 147th Street

Description Phase II Design Engineering for the Ravinia Avenue at 147th Street Roundabout.

Agreement Provisions

I. THE ENGINEER AGREES,

- To perform or be responsible for the performance, in accordance with STATE approved design standards and policies, of engineering services for the LA for the proposed improvement herein described.
- To attend any and all meetings and visit the site of the proposed improvement at any reasonable time when requested by representatives of the LA or STATE.
- To complete the services herein described within 730 calendar days from the date of the Notice to Proceed from the LA, excluding from consideration periods of delay caused by circumstances beyond the control of the ENGINEER. **(See Exhibit D)**
- The classifications of the employees used in the **work services** should be consistent with the employee classifications and estimated man-hours shown in EXHIBIT A. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are indicated in Exhibit A to be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the payroll rate for the **work services** performed.
- That the ENGINEER is qualified technically and is entirely conversant with the design standards and policies applicable for the PROJECT; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated herein.
- That the ENGINEER shall be responsible for the accuracy of the **work services** and shall promptly make necessary revisions or corrections resulting from the ENGINEER's errors, omissions or negligent acts without additional compensation. Acceptance of **work services** by the STATE will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or for clarification of any ambiguities.
- That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will affix the ENGINEER's professional seal when such seal is required by law. Plans for structures to be built as a part of the improvement will be prepared under the supervision of a registered structural engineer and will affix structural engineer seal when such seal is required by law. It will be the ENGINEER's responsibility to affix the proper seal as required by the Bureau of Local Roads and Streets manual published by the STATE.

8. That the ENGINEER will comply with applicable federal statutes, state of Illinois statutes, and local laws or ordinances of the LA.
9. The undersigned certifies neither the ENGINEER nor I have:
- employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for me or the above ENGINEER) to solicit or secure this AGREEMENT,
 - agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
 - paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for me or the above ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
 - are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
 - have not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property,
 - are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (e) and
 - have not within a three-year period preceding this AGREEMENT had one or more public transactions (Federal, State or local) terminated for cause or default.
10. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LA.
11. To submit all invoices to the LA within one year of the completion of the ~~work~~ **services** called for in this AGREEMENT or any subsequent Amendment or Supplement.
12. To submit BLR 05613, Engineering Payment Report, to the STATE upon completion of the project (Exhibit B).
13. Scope of Services to be provided by the ENGINEER: **See Exhibit C for Scope clarification.**
- ☒ Make such detailed surveys as are necessary for the planning and design of the PROJECT.
 - ☐ Make stream and flood plain hydraulic surveys and gather both existing bridge upstream and downstream high water data and flood flow histories.
 - ☐ Prepare applications for U.S. Army Corps of Engineers Permit, Illinois Department of Natural Resources Office of Water Resources Permit and Illinois Environmental Protection Agency Section 404 Water Quality Certification.
 - ☐ Design and/or approve cofferdams and superstructure shop drawings.
 - ☐ Prepare Bridge Condition Report and Preliminary Bridge Design and Hydraulic Report, (including economic analysis of bridge or culvert types and high water effects on roadway overflows and bridge approaches).
 - ☐ Prepare the necessary environmental and planning documents including the Project Development Report, Environmental Class of Action Determination or Environmental Assessment, State Clearinghouse, Substate Clearinghouse and all necessary environmental clearances.
 - ☒ Make such soil surveys or subsurface investigations including borings and soil profiles as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations to be made in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE. **(Services to be performed by Subconsultant)**
 - ☒ Analyze and evaluate the soil surveys and structure borings to determine the roadway structural design ~~and bridge foundation~~.
 - ☒ Prepare preliminary roadway and drainage structure plans and meet with representatives of the LA and STATE at the site of the improvement for review of plans prior to the establishment of final vertical and horizontal alignment, location and size of drainage structures, and compliance with applicable design requirements and policies.
 - ☐ Make or cause to be made such traffic studies and counts and special intersection studies as may be required to furnish sufficient data for the design of the proposed improvement.
 - ☒ Complete the general and detailed plans, special provisions and ~~estimate of cost~~ **opinion of probable construction cost**. Contract plans shall be prepared in accordance with the guidelines contained in the Bureau of Local Roads and Streets manual. The special provisions and detailed estimate of cost shall be furnished in quadruplicate.

- ☒ Furnish the LA with survey and drafts in quadruplicate all necessary right-of-way dedications, construction easements and borrow pit and channel change agreements including prints of the corresponding plats and staking as required. **(Services to be performed by Subconsultant)**

II. THE LA AGREES,

1. To furnish the ENGINEER all presently available survey data and information
2. To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT, on the basis of the following compensation formulas:

Cost Plus Fixed Fee ☒ CPFF = $14.5\%[DL + R(DL) + OH(DL) + IHDC]$, or
 ☐ CPFF = $14.5\%[DL + R(DL) + 1.4(DL) + IHDC]$, or
 ☐ CPFF = $14.5\%[(2.3 + R)DL + IHDC]$

Where: DL = Direct Labor
 IHDC = In House Direct Costs
 OH = Consultant Firm's Actual Overhead Factor
 R = Complexity Factor

Specific Rate ☐ (Pay per element)

Lump Sum ☐ _____

3. To pay the ENGINEER using one of the following methods as required by 49 CFR part 26 and 605 ILCS 5/5-409:

☐ With Retainage

- a) **For the first 50% of completed work**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to 90% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- b) **After 50% of the work services is completed**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments covering work performed shall be due and payable to the ENGINEER, such payments to be equal to 95% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- c) **Final Payment** – Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and the STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

☒ Without Retainage

- a) **For progressive payments** – Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the ~~work~~ **services** performed shall be due and payable to the ENGINEER, such payments to be equal to the value of the partially completed ~~work~~ **services** minus all previous partial payments made to the ENGINEER.
- b) **Final Payment** – Upon approval of the ~~work~~ **services** by the LA but not later than 60 days after the ~~work~~ **services** ~~is~~ **are** completed and reports have been made and accepted by the LA and STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

4. The recipient shall not discriminate on the basis of race, color, national origin or sex in the award and performance of any DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26. The recipient shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as violation of this agreement. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31U.S.C. 3801 et seq.).

III. IT IS MUTUALLY AGREED,

1. That no ~~work~~ **services** shall be commenced by the ENGINEER prior to issuance by the LA of a written Notice to Proceed.
2. That tracings, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LA and that basic survey notes, sketches, charts and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request, to the LA or to the STATE, without restriction or limitation as to their use.

3. That all reports, plans, estimates and special provisions furnished by the ENGINEER shall be in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE, it being understood that all such furnished documents shall be approved by the LA and the STATE before final acceptance. During the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.
4. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without written consent of the LA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall not be construed to relieve the ENGINEER of any responsibility for the fulfillment of this agreement.
5. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amounts, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General and the STATE; and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the STATE for the recovery of any funds paid by the STATE under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
6. The payment by the LA in accordance with numbered paragraph 3 of Section II will be considered payment in full for all services rendered in accordance with this AGREEMENT whether or not they be actually enumerated in this AGREEMENT.
7. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's **work services** and shall indemnify and save harmless the LA, the STATE, and their officers, agents and employees from all suits, claims, actions or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
8. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such material becomes the property of the LA. The LA will be responsible for reimbursement of all eligible expenses to date of the written notice of termination.
9. This certification is required by the Drug Free Workplace Act (30ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the State unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to, suspension of contract or grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the State for at least one (1) year but no more than five (5) years.

For the purpose of this certification, "grantee" or "contractor" means a corporation, partnership or other entity with twenty-five (25) or more employees at the time of issuing the grant, or a department, division or other unit thereof, directly responsible for the specific performance under a contract or grant of \$5,000 or more from the State, as defined in the Act.

The contractor/grantee certifies and agrees that it will provide a drug free workplace by:

- a. Publishing a statement:
 - (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
 - (2) Specifying the actions that will be taken against employees for violations of such prohibition.
 - (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
 - (a) abide by the terms of the statement; and
 - (b) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.
- b. Establishing a drug free awareness program to inform employees about:
 - (1) The dangers of drug abuse in the workplace;
 - (2) The grantee's or contractor's policy of maintaining a drug free workplace;
 - (3) Any available drug counseling, rehabilitation and employee assistance program; and
 - (4) The penalties that may be imposed upon an employee for drug violations.
- c. Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.

- d. Notifying the contracting or granting agency within ten (10) days after receiving notice under part (B) of paragraph (3) of subsection (a) above from an employee or otherwise receiving actual notice of such conviction.
 - e. Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program by,
 - f. Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.
 - g. Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act.
10. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of DOT assisted contracts. Failure by the ENGINEER to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the LA deems appropriate.

Agreement Summary

Prime Consultant:	TIN Number	Agreement Amount
Strand Associates, Inc.	39-1020418	\$138,651.82
Sub-Consultants:	TIN Number	Agreement Amount
Wheatland Title Guaranty	36-3576897	\$1,000.00
SEECO Consultants, Inc.	36-3458492	\$19,447.87
Polach Appraisal Group, Inc.	36-3928535	\$1,500.00
Hampton, Lenzini, & Renwick Inc.	36-2555986	\$7,500.00
	Sub-Consultant Total:	\$29,447.87
	Prime Consultant Total:	\$138,651.82
	Total for all work Services:	\$168,099.69

Executed by the LA:

Village of Orland Park

(Municipality/Township/County)

ATTEST:

By: _____

By: _____

Village _____ Clerk

Title: _____

(SEAL)

Executed by the ENGINEER:

ATTEST:

Strand Associates, Inc.®

By: _____

By: _____

Title: _____

Title: Corporate Secretary

Exhibit A - Preliminary Engineering

Route: FAU 1709
 Local Agency: Village of Orland Park
 (Municipality/Township/County)
 Section: 12-00069-00-CH
 Project: M-4003(032)
 Job No.: D-91-447-12

*Firm's **approved rates** on file with IDOT'S
 Bureau of Accounting and Auditing:

Overhead Rate (OH) 0.00 %
 Complexity Factor (R) 0.00
 Calendar Days

Method of Compensation:

- Cost Plus Fixed Fee 1 ☒ 14.5%[DL + R(DL) + OH(DL) + IHDC]
 Cost Plus Fixed Fee 2 ☐ 14.5%[DL + R(DL) + 1.4(DL) + IHDC]
 Cost Plus Fixed Fee 3 ☐ 14.5%[(2.3 + R)DL + IHDC]
 Specific Rate ☐
 Lump Sum ☐

Cost Estimate of Consultant's Services in Dollars

Element of work services	Employee Classification	Man- Hours	Payroll Rate	Payroll Costs (DL)	Overhead*	Services by Others	In-House Direct Costs (IHDC)	Profit	Total
See attached CECS									
Totals		0.00							

PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME Strand Associates, Inc.
PRIME/SUPPLEMENT Prime

DATE 08/25/15
PTB NO. _____

CONTRACT TERM 18 MONTHS
START DATE 1/1/2016
RAISE DATE 7/1/2016

OVERHEAD RATE 159.16%
COMPLEXITY FACTOR 0
% OF RAISE 3.00%

ESCALATION PER YEAR

1/1/2016 - 7/1/2016

7/2/2016 - 7/1/2017

6
18

12
18

= 33.33%
= 1.0200

68.67%

The total escalation for this project would be:

2.00%

08/25/15

FIRM NAME

PRIME/SUPPLEMENT

PSB NO.

Prime

ESCALATION FACTOR

2.00%

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AVERAGE HOURLY PROJECT RATES

FIRM Strand Associates, Inc.
 PSB _____
 PRIME/SUPPLEMENT Prime

DATE 08/25/15

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			ADMINISTRATION			PICK-UP TOPOGRAPHIC			AGENCY COMMUNICATIO			DRAINAGE DESIGN			STREET LIGHTING & ELE		
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg
Principal	70.00	30	2.82%	1.97	11	22.92%	16.04							1	1.19%	0.83	2	2.38%	1.67
Project Manager	57.52	198	18.59%	10.69	16	33.33%	19.17	1	7.14%	4.11	30	42.86%	24.65	12	14.29%	8.22	16	19.05%	10.96
Structural Engineer	54.56	0																	
Project Engineer	33.65	614	57.65%	19.40	14	29.17%	9.81	9	64.29%	21.63	30	42.86%	14.42	63	75.00%	25.24	58	69.05%	23.23
Technician	30.75	182	17.09%	5.26				4	28.57%	8.79	6	8.57%	2.64	8	9.52%	2.93	8	9.52%	2.93
Clerical	28.38	41	3.85%	1.09	7	14.58%	4.14				4	5.71%	1.62						
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TOTALS		1065	100%	\$38.41	48	100.00%	\$49.17	14	100%	\$34.53	70	100%	\$43.33	84	100%	\$37.22	84	100%	\$38.79

AVERAGE HOURLY PROJECT RATES

FIRM Strand Associates, Inc.
 PSB _____
 PRIME/SUPPLEMENT Prime

DATE 08/25/15

SHEET 2 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	LANDSCAPING DESIGN			DRAWINGS, SPECIAL PROVIS			UTILITY & PUBLIC COMMUNI			QA/QC			MEETINGS			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	70.00				12	1.95%	1.37				4	8.33%	5.83						
Project Manager	57.52	3	16.67%	9.59	60	9.77%	5.62	20	44.44%	25.56	20	41.67%	23.97	20	50.00%	28.76			
Structural Engineer	54.56																		
Project Engineer	33.65	13	72.22%	24.30	372	60.59%	20.39	21	46.67%	15.70	24	50.00%	16.82	10	25.00%	8.41			
Technician	30.75	2	11.11%	3.42	154	25.08%	7.71												
Clerical	28.38				16	2.61%	0.74	4	8.89%	2.52				10	25.00%	7.09			
TOTALS		18	100%	\$37.31	614	100%	\$35.83	45	100%	\$43.79	48	100%	\$46.62	40	100%	\$44.27	0	0%	\$0.00

Ravinia Avenue at 147th Street - Average Hourly Rate Ranges Phase II

Exhibit A

Average Hourly Rate Ranges

CONSULTANT: Strand Associates, Inc.
LOCAL AGENCY: Village of Orland Park
TYPE OF FUNDING: STP
COUNTY: Cook

Hourly Rate Ranges for Strand Associates, Inc.			
Classification	Average	Rate Ranges	
PRINCIPAL	State Max. \$70.00	\$134.42	\$58.20
PROJECT MANAGER	\$56.39	\$80.00	\$42.32
STRUCTURAL ENGINEER	\$53.49	\$57.52	\$50.31
PROJECT ENGINEER	\$32.99	\$54.61	\$25.96
TECHNICIAN	\$30.15	\$54.17	\$18.22
CLERICAL	\$27.82	\$60.58	\$17.26

RAVINIA AVENUE AT 147TH STREET - Phase II Man-hours

Exhibit A

STRAND ASSOCIATES, INC.	TASK	HOURS	COMMENTS
	ADMINISTRATION		
	PROJECT TRACKING	16	
	COMMUNICATION WITH ENVIRONMENTAL AND GEOTECHNICAL SUBCONSULTANT	8	
	COMMUNICATION WITH PLAT OF HIGHWAYS SUBCONSULTANT	8	
	COMMUNICATION WITH APPRAISER & LAND NEGOTIATOR	8	
	COMMUNICATION WITH REVIEW APPRAISER	8	
	ADMINISTRATION TOTAL	48	
	PICK-UP TOPOGRAPHICAL SURVEY		
	PERFORM PICK-UP SURVEY	8	1 DAY @ 10 HOURS/EA
	DOWNLOAD SURVEY AND REVISE BASE MAP AND TIN USING GEOPAK	6	8 HOURS/DAY @ 1 DAY
	PICK-UP TOPOGRAPHICAL SURVEY TOTAL	14	
	AGENCY COMMUNICATION & PERMITTING		
	COMMUNICATION WITH THE LOCAL AGENCY	16	
	COMMUNICATION WITH IDOT	16	
	COMMUNICATION WITH MWRDGC	8	
	PREPARE MWRDGC WATERSHED MANAGEMENT PERMIT	16	
	SUBMIT PROJECT PROGRESS INFORMATION FORM	4	
	PREPARE STORMWATER POLLUTION PREVENTION PLAN	8	
	PREPARE IEPA NOI	2	
	AGENCY COMMUNICATION/PERMITTING TOTAL	70	
	DRAINAGE DESIGN		
	DESIGN TEMPORARY DRAINAGE FACILITIES	16	
	DESIGN STORM SEWER SYSTEM	52	
	DESIGN BIOSWALES AND PLANTINGS	16	
	DRAINAGE DESIGN TOTAL	84	
	STREET LIGHTING & ELECTRICAL DESIGN		
	EVALUATION IF EXISTING STREET LIGHTS MEET IES STANDARDS	8	
	TEMP. LIGHTING	16	
	PERMANENT LIGHTING	60	
	STREET LIGHTING & ELECTRICAL DESIGN TOTAL	84	
	LANDSCAPING DESIGN	18	
	LANDSCAPING DESIGN TOTAL	18	
	DRAWINGS, SPECIAL PROVISIONS, & OPINIONS		
	TITLE DRAWING	4	1 DRAWING X 4 HRS
	INDEX OF DRAWING/STANDARDS	6	1 DRAWING X 6 HRS
	GENERAL NOTES	6	1 DRAWING X 6 HRS
	SUMMARY OF QUANTITIES	80	112 PAY ITEMS / 14 PER DRAWINGS X 10 HRS/EA(HRS INCLUDE QUANTITY CALCULATIONS)
	TYPICAL SECTIONS	24	4 DRAWINGS X 6 HRS/EA
	SCHEDULE OF QUANTITIES	18	3 DRAWINGS X 6 HRS/EA
	ALIGNMENT, TIES, AND BENCHMARKS	12	2 DRAWINGS X 6 HRS/EA
	REMOVAL DRAWING	12	2 DRAWINGS X 6 HRS/EA - DUAL PLAN VIEW
	ROADWAY PLAN AND PROFILES	60	6 DRAWINGS X 10 HRS/EA
	BIKE PATH PLAN AND PROFILES	6	1 DRAWING X 6 HRS/EA
	SUGGESTED MAINTENANCE OF TRAFFIC GENERAL NOTES & DETOUR PLAN	16	1 DRAWINGS X 16 HRS
	SUGGESTED MAINTENANCE OF TRAFFIC STAGING DRAWINGS	32	1 DRAWING PER STAGE X 4 STAGES X 8 HRS/EA
	TEMPORARY SEDIMENT AND EROSION CONTROL DRAWINGS	12	2 DRAWINGS X 6 HRS/EA - DUAL PLAN VIEW
	DRAINAGE SCHEDULES	16	2 DRAWINGS X 8 HRS/EA
	DRAINAGE AND UTILITY PLAN AND PROFILES	60	6 DRAWINGS X 10 HRS/EA
	BIKE PATH DRAINAGE AND UTILITY PLAN AND PROFILES	6	1 DRAWING X 6 HRS/EA
	PAVEMENT MARKINGS AND SIGNING DETAILS	16	2 DRAWINGS X 8 HRS/EA - DUAL PLAN VIEW
	ROUNDBOUT AND CURB RAMP ELEVATION DETAILS	8	1 DRAWING X 8 HRS
	ROUNDBOUT LAYOUT	20	2 DRAWINGS X 10 HRS
	GENERAL LANDSCAPING AND PERMANENT SEDIMENT AND EROSION CONTROL	12	2 DRAWINGS X 6 HRS/EA - DUAL PLAN VIEW
	LANDSCAPING SCHEDULE	6	1 DRAWING X 6 HRS/EA
	LANDSCAPING DETAILS FOR CENTER ISLAND AND WEST MEDIAN	6	1 DRAWING X 6 HRS/EA
	GRADING/CONTOUR DETAILS	24	2 DRAWINGS X 12 HRS/EA
	TEMP. STREET LIGHTING & ELECTRICAL DETAILS	16	2 DRAWINGS X 8 HRS/EA - DUAL PLAN VIEW
	STREET LIGHTING & ELECTRICAL DETAILS	28	4 DRAWINGS X 7 HRS/EA - DUAL PLAN VIEW
	SPECIFIC DETAILS	12	2 DRAWINGS X 6 HRS FOR COLORED AND STAMPED MEDIANS AND BRICK PAVERS
	IDOT DISTRICT ONE DETAILS	6	12 DRAWINGS X 0.5 HRS
	PRE-STAGE ROADWAY CROSS SECTIONS	20	20-SECTIONS X 1 HRS/X-SECTION
	FINAL ROADWAY CROSS SECTIONS	30	30-SECTIONS X 1 HRS/X-SECTION

RAVINIA AVENUE AT 147TH STREET - Phase II Man-hours

Exhibit A

	BIKE PATH CROSS SECTIONS	10	10-SECTIONS X 1 HRS/X-SECTION
	SPECIAL PROVISIONS	16	
	ESTIMATE OF TIME	6	
	OPINION OF PROBABLE CONSTRUCTION COST	8	
	DRAWINGS, SPECIAL PROVISIONS, & OPINIONS	614	
	UTILITY & PUBLIC COMMUNICATION		
	IDENTIFY POTENTIAL UTILITY CONFLICTS	5	
	SEND PREFINAL & FINAL LETTERS & PLANS TO UTILITY COMPANIES	8	
	COMMUNICATE WITH UTILITY COMPANIES	8	
	ASSIST LOCAL AGENCY WITH PUBLIC EDUCATION OF ROUNDABOUTS	24	
	UTILITY & PUBLIC COMMUNICATION TOTAL	45	
	QUALITY ASSURANCE / QUALITY CONTROL		
	ROADWAY QC	24	Approx. 5% OF TOTAL HOURS
	STREET LIGHTING QC	8	
	DRAINAGE QC	16	
	QUALITY ASSURANCE / QUALITY CONTROL TOTAL	48	
	MEETINGS		
	PLAN, PREPARE AND ATTEND ONE (1) IDOT KICK-OFF MEETING	6	4 HOURS/ MEETING + MINUTES
	PLAN, PREPARE AND ATTEND ONE (1) PROGRESS MEETING WITH LOCAL AGENCY	4	2 HOURS/ MEETING + MINUTES
	PLAN, PREPARE AND ATTEND ONE (1) MEETING WITH OWNER OF NE PARCEL (COOPERS)	6	4 HOURS/ MEETING + MINUTES
	PLAN, PREPARE AND ATTEND ONE (1) MEETING WITH PUBLIC	24	22 HOURS/ MEETING + MINUTES
	MEETINGS TOTAL	40	
	PROJECT MAN-HOUR TOTAL	1065	

COMPANY NAME: Strand Associates, Inc.

PTB NUMBER:

 TODAY'S DATE: **6/22/2015**

ITEM	ALLOWABLE	UTILIZE W.O. ONLY	QUANTITY J.S. ONLY	CONTRACT RATE	TOTAL
Per Diem (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.00	\$0.00
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost (Up to state rate maximum)			\$0.00	\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00	\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum		700	\$0.54	\$378.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00	\$0.00
Vehicle Rental	Actual cost (Up to \$55/day)			\$0.00	\$0.00
Tolls	Actual cost			\$0.00	\$0.00
Parking	Actual cost			\$0.00	\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00	\$0.00
Shift Differential	Actual cost (Based on firm's policy)			\$0.00	\$0.00
Overnight Delivery/Postage/Courier Service	Actual cost (Submit supporting documentation)		1	\$380.00	\$380.00
Copies of Deliverables/Mylars (In-house)	Actual cost (Submit supporting documentation)		7,980	\$0.15	\$1,197.00
Copies of Deliverables/22"x34" (in-house)	Actual cost (Submit supporting documentation)		2,571.25	\$0.35	\$899.94
Project Specific Insurance	Actual cost			\$0.00	\$0.00
Monuments (Permanent)	Actual cost			\$0.00	\$0.00
Photo Processing	Actual cost			\$0.00	\$0.00
2-Way Radio (Survey or Phase III Only)	Actual cost			\$0.00	\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual cost			\$0.50	\$0.00
CADD	Actual cost (Max \$15/hour)		592	\$15.00	\$8,880.00
Web Site	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Advertisements	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Public Meeting Facility Rental	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Recording Fees	Actual cost			\$0.00	\$0.00
Transcriptions (specific to project)	Actual cost			\$0.00	\$0.00
Courthouse Fees	Actual cost			\$0.00	\$0.00
Storm Sewer Cleaning and Televising	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Traffic Control and Protection	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Aerial Photography and Mapping	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Utility Exploratory Trenching	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Testing of Soil Samples*	Actual cost			\$0.00	\$0.00
Lab Services*	Actual cost (Provide breakdown of each cost)			\$0.00	\$0.00
Equipment and/or Specialized Equipment Rental*	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Word Processing	Actual cost (Max \$15/hour)		194	\$15.00	\$2,910.00
Copies Color	Actual cost		55	\$1.00	\$55.00
Copies Mylar	Actual cost		114	\$2.05	\$233.70
Telephone Usage	Actual cost		30	\$0.50	\$15.00
Robotic Equipment	Actual cost		1	\$250.00	\$250.00
Copies of Deliverables/Mylar 22"x34" (in-house)	Actual cost			\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
TOTAL DIRECT COST					\$15,198.64

**If other allowable costs are needed and not listed, please add in the above spaces provided.*
LEGEND

W.O. = Work Order

J.S. = Job Specific

Exhibit A

Direct Costs

XEROX (In-House)

TASK		QTY	RATE	TOTAL
ADMINISTRATION	Approx. 12 invoices at 50 pages each +Misc.	760	\$0.15	\$114.00
PICK-UP TOPOGRAPHICAL SURVEY		10	\$0.15	\$1.50
AGENCY COMMUNICATION & PERMITTING		120	\$0.15	\$18.00
DRAINAGE DESIGN		50	\$0.15	\$7.50
STREET LIGHTING & ELECTRICAL DESIGN		50	\$0.15	\$7.50
LANDSCAPING DESIGN		10	\$0.15	\$1.50
DRAWINGS, SPECIAL PROVISIONS, AND OPINIONS	16 copies of SPs at 150 pages/each	2400	\$0.15	\$360.00
UTILITY & PUBLIC COMMUNICATION	Letters	20	\$0.15	\$3.00
QA / QC	4 copies of SPs at 150 pages/each + misc.	800	\$0.15	\$120.00
MEETINGS		100	\$0.15	\$15.00
TOTALS		4320	\$0.15	\$648.00

XEROX 11"X17" (In-House)

TASK		QTY	RATE	TOTAL
ADMINISTRATION			\$0.15	\$0.00
PICK-UP TOPOGRAPHICAL SURVEY		10	\$0.15	\$1.50
AGENCY COMMUNICATION & PERMITTING	8 copies of plans x 90 sheets/each	720	\$0.15	\$108.00
DRAINAGE DESIGN		20	\$0.15	\$3.00
STREET LIGHTING & ELECTRICAL DESIGN		20	\$0.15	\$3.00
LANDSCAPING DESIGN		10	\$0.15	\$1.50
DRAWINGS, SPECIAL PROVISIONS, AND OPINIONS	16 copies of drawings x 90 sheets/each	1440	\$0.15	\$216.00
UTILITY & PUBLIC COMMUNICATION	8 copies of drawings x 90 sheets/each	720	\$0.15	\$108.00
QA / QC	6 copies of drawings x 90 sheets/each	540	\$0.15	\$81.00
MEETINGS	2 copies of drawings x 90 sheets/each	180	\$0.15	\$27.00
TOTALS		3660	\$0.15	\$549.00

XEROX 22"X34" (In-House)

TASK		QTY (SQ FT)	RATE	TOTAL
ADMINISTRATION			\$0.35	\$0.00
PICK-UP TOPOGRAPHICAL SURVEY			\$0.35	\$0.00
AGENCY COMMUNICATION & PERMITTING			\$0.35	\$0.00
DRAINAGE DESIGN			\$0.35	\$0.00
STREET LIGHTING & ELECTRICAL DESIGN			\$0.35	\$0.00
LANDSCAPING DESIGN			\$0.35	\$0.00
DRAWINGS, SPECIAL PROVISIONS, AND OPINIONS	3 copies of drawings x 90 sheets/each + misc. for plan preparation	1636.25	\$0.35	\$572.69
UTILITY & PUBLIC COMMUNICATION	2 copies of drawings x 90 sheets/each + misc.	935	\$0.35	\$327.25
QA / QC			\$0.35	\$0.00
MEETINGS			\$0.35	\$0.00
TOTALS		2571	\$0.35	\$899.94

MILEAGE (Outside)

TASK	(V=vehicle, T=trip, M=miles)	MILES	RATE	TOTAL
ADMINISTRATION			\$0.54	\$0.00
PICK-UP TOPOGRAPHICAL SURVEY	1Vx2Tx25M	50	\$0.54	\$27.00
AGENCY COMMUNICATION & PERMITTING			\$0.54	\$0.00
DRAINAGE DESIGN			\$0.54	\$0.00
STREET LIGHTING & ELECTRICAL DESIGN	1Vx2Tx25M	50	\$0.54	\$27.00
LANDSCAPING DESIGN			\$0.54	\$0.00
DRAWINGS, SPECIAL PROVISIONS, AND OPINIONS			\$0.54	\$0.00
UTILITY & PUBLIC COMMUNICATION			\$0.54	\$0.00
QA / QC		210	\$0.54	\$113.40
MEETINGS	3- 1Vx2Tx25M; 2 -2Vx2Tx60M	390	\$0.54	\$210.60
TOTALS		700	\$0.54	\$378.00

WORD PROCESSING (In-House)

TASK	QTY	RATE	TOTAL
ADMINISTRATION	24	\$15.00	\$360.00
PICK-UP TOPOGRAPHICAL SURVEY		\$15.00	\$0.00
AGENCY COMMUNICATION & PERMITTING	30	\$15.00	\$450.00
DRAINAGE DESIGN	24	\$15.00	\$360.00
STREET LIGHTING & ELECTRICAL DESIGN	32	\$15.00	\$480.00
LANDSCAPING DESIGN	4	\$15.00	\$60.00
DRAWINGS, SPECIAL PROVISIONS, AND OPINIONS	50	\$15.00	\$750.00
UTILITY & PUBLIC COMMUNICATION	12	\$15.00	\$180.00
QA / QC		\$15.00	\$0.00
MEETINGS	18	\$15.00	\$270.00
TOTALS	194	\$15.00	\$2,910.00

CADD (In-House)

TASK	QTY	RATE	TOTAL
ADMINISTRATION		\$15.00	\$0.00
PICK-UP TOPOGRAPHICAL SURVEY	8	\$15.00	\$120.00
AGENCY COMMUNICATION & PERMITTING	8	\$15.00	\$120.00
DRAINAGE DESIGN	32	\$15.00	\$480.00
STREET LIGHTING & ELECTRICAL DESIGN	32	\$15.00	\$480.00
LANDSCAPING DESIGN	12	\$15.00	\$180.00
DRAWINGS, SPECIAL PROVISIONS, AND OPINIONS	472	\$15.00	\$7,080.00
UTILITY & PUBLIC COMMUNICATION	12	\$15.00	\$180.00
QA / QC	12	\$15.00	\$180.00
MEETINGS	4	\$15.00	\$60.00
TOTALS	592	\$15.00	\$8,880.00

POSTAGE (Outside)

TASK	TOTAL
ADMINISTRATION	\$30.00
PICK-UP TOPOGRAPHICAL SURVEY	\$0.00
AGENCY COMMUNICATION & PERMITTING	\$50.00
DRAINAGE DESIGN	\$0.00
STREET LIGHTING & ELECTRICAL DESIGN	\$0.00
LANDSCAPING DESIGN	\$0.00
DRAWINGS, SPECIAL PROVISIONS, AND OPINIONS	\$200.00
UTILITY & PUBLIC COMMUNICATION	\$0.00
QA / QC	\$100.00
MEETINGS	\$0.00
TOTALS	\$380.00

MYLAR PRINTS / COLOR COPIES (In-House)

TASK	DESCRIPTION	Sheets	RATE	TOTAL
ADMINISTRATION			\$1.00	\$0.00
PICK-UP TOPOGRAPHICAL SURVEY		5	\$1.00	\$5.00
AGENCY COMMUNICATION & PERMITTING		10	\$1.00	\$10.00
DRAINAGE DESIGN		10	\$1.00	\$10.00
STREET LIGHTING & ELECTRICAL DESIGN		5	\$1.00	\$5.00
LANDSCAPING DESIGN		5	\$1.00	\$5.00
DRAWINGS, SPECIAL PROVISIONS, AND OPINIONS	22 sheets (\$2.05/SF)	114	\$2.05	\$233.70
UTILITY & PUBLIC COMMUNICATION		20	\$1.00	\$20.00
QA / QC			\$1.00	\$0.00
MEETINGS			\$1.00	\$0.00
TOTALS		169		\$288.70

PHONE (In-House)

TASK	DESCRIPTION	MINS	RATE	TOTAL
ADMINISTRATION		30	\$0.50	\$15.00
PICK-UP TOPOGRAPHICAL SURVEY			\$0.50	\$0.00
AGENCY COMMUNICATION & PERMITTING			\$0.50	\$0.00
DRAINAGE DESIGN			\$0.50	\$0.00
STREET LIGHTING & ELECTRICAL DESIGN			\$0.50	\$0.00
LANDSCAPING DESIGN			\$0.50	\$0.00
DRAWINGS, SPECIAL PROVISIONS, AND OPINIONS			\$0.50	\$0.00
UTILITY & PUBLIC COMMUNICATION			\$0.50	\$0.00
QA / QC			\$0.50	\$0.00
MEETINGS				
TOTALS		30		\$15.00

MISC. EQUIPMENT (Outside)

TASK	DESCRIPTION	DAYS	RATE	TOTAL
ADMINISTRATION				
PICK-UP TOPOGRAPHICAL SURVEY	gps	1	\$250.00	\$250.00
AGENCY COMMUNICATION & PERMITTING				
DRAINAGE DESIGN				
STREET LIGHTING & ELECTRICAL DESIGN				
LANDSCAPING DESIGN				
DRAWINGS, SPECIAL PROVISIONS, AND OPINIONS				
UTILITY & PUBLIC COMMUNICATION				
QA / QC				
MEETINGS				
TOTALS				\$250.00

TOTAL	(In-House)	(Outside)	TOTAL
ADMINISTRATION	\$489.00	\$30.00	\$519.00
PICK-UP TOPOGRAPHICAL SURVEY	\$128.00	\$277.00	\$405.00
AGENCY COMMUNICATION & PERMITTING	\$706.00	\$50.00	\$756.00
DRAINAGE DESIGN	\$860.50	\$0.00	\$860.50
STREET LIGHTING & ELECTRICAL DESIGN	\$975.50	\$27.00	\$1,002.50
LANDSCAPING DESIGN	\$248.00	\$0.00	\$248.00
DRAWINGS, SPECIAL PROVISIONS, AND OPINIONS	\$9,212.39	\$200.00	\$9,412.39
UTILITY & PUBLIC COMMUNICATION	\$818.25	\$0.00	\$818.25
QA / QC	\$381.00	\$213.40	\$594.40
MEETINGS	\$372.00	\$210.60	\$582.60
TOTAL	\$14,190.64	\$1,008.00	\$15,198.64

Exhibit B



**Illinois Department
of Transportation**

Engineering Payment Report

Prime Consultant

Name	Strand Associates, Inc.®
Address	1170 Houbolt Road, Joliet, IL 60431
Telephone	(815) 744-4200
TIN Number	39-1020418

Project Information

Local Agency	Village of Orland Park
Section Number	12-00069-00-CH
Project Number	M-4003(032)
Job Number	D-91-447-12

This form is to verify the amount paid to the Sub-consultant on the above captioned contract. Under penalty of law for perjury or falsification, the undersigned certifies that ~~work was~~ **services were** executed by the Sub-consultant for the amount listed below

Sub-Consultant Name	TIN Number	Actual Payment from Prime
Wheatland Title Guaranty	36-3576897	
SEECO Consultants, Inc.	36-3458492	
Polach Appraisal Group, Inc.	36-3928535	
Hampton, Lenzini, & Renwick Inc.	36-2555986	
Sub-Consultant Total:		
Prime Consultant Total:		
Total for all work Services Completed:		

Signature and title of Prime Consultant

Date

Note: The Department of Transportation is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under state and federal law. Disclosure of this information is REQUIRED and shall be deemed as concurring with the payment amount specified above.

For information about IDOTs collection and use of confidential information review the department's [Identity Protection Policy](#).

SCOPE OF SERVICES–PRELIMINARY ENGINEERING SERVICES

Engineer: Strand Associates, Inc.®
Route: Ravinia Avenue at 147th Street
Local Agency: Village of Orland Park, Illinois
LA Contact: Kurt Corrigan, P.E.

Project Understanding

The Ravinia Avenue at 147th Street Roundabout Phase II project includes intersection improvements. Multi-use paths will be included around the roundabout along the west side of Ravinia Avenue and the north side of 147th Street. The roundabout will be illuminated by ornamental street lighting. The center island and Village Hall complex entrance median will be landscaped with a water service extended for future irrigation. Bioswales will be designed for the east and west parkways of Ravinia Avenue south of 147th Street if the geotechnical report finds the soils to be accommodating.

This project will use Federal Surface Transportation Program funds.

Scope of Services

The project approach is based on a STATE-approved Phase II Flow Diagram that identifies project deliverables and milestones required.

ENGINEER will provide the following services:

Administration

1. Track project schedule, budget, and task completion by project managers.
2. Develop subconsultant agreements and track project schedule, budget, and task completion.
3. Use STATE standard invoice forms.

Agency Communication and Permitting

1. Prepare and submit STATE Project Program Information form.
2. Communicate with Local Agency (LA), STATE, and Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) for the duration of the project.
3. Prepare and submit IEPA Notice of Intent.
4. Prepare and submit Storm Water Pollution Prevention Plan.

Drainage Design

1. Design temporary drainage facilities for stage constructing the roundabout.
2. Design storm sewer to connect to an existing 36-inch storm sewer located within the project survey limits. Design shall be according to the STATE's Bureau of Local Roads and Streets (BLRS) and Drainage Manuals and the MWRDGC's Watershed Ordinance.
3. Design bioswales in the east and west parkways of Ravinia Avenue south of 147th Street if the geotechnical report finds the soils are accommodating.

Street Lighting and Electrical Design

1. Design intersection street lighting for the roundabout.
2. Prepare calculations and design memorandum for STATE's review.
3. Communicate with Commonwealth Edison on delivering power to the street lights and metering power usage.
4. Prepare two options of ornamental street lighting for the LA to select.
5. Review existing continuous street lighting on the south leg of Ravinia Avenue to evaluate whether it meets Illuminating Engineering Society standards.

Landscape Design

1. Design landscaping for the center island of the roundabout and Village Hall entrance median.
2. Design tree replacement for replacing existing trees one to one.

Drawings, Special Provisions, and Opinions of Probable Cost and Time

1. Drawings
 - a. Provide drawings in accordance with the STATE's BLRS and Bureau of Design and Environment Manuals.
 - b. Provide the following drawings:

Drawing Name	No. of Drawings
Cover Drawing	1
Index of Drawings and Standards	1
General Notes and Commitments	1
Summary of Quantities	8
Typical Sections	4
Schedule of Quantities	3
Alignment, Ties, and Benchmarks	2

EXHIBIT C

Drawing Name	No. of Drawings
Removal Plan	2
Roadway Plan and Profile	6
Bike Path Plan and Profile	1
Suggested Maintenance of Traffic General Notes and Detour Plan	1
Suggested Maintenance of Traffic Staging Drawings	4
Temporary Sediment and Erosion Control	2
Drainage Schedules	2
Drainage and Utility Plan and Profile Drawings	6
Pavement Markings and Signing Details	2
Roundabout and Curb Ramp Elevations Details	1
Roundabout Layout Drawings	2
Landscape and Permanent Erosion and Sediment Control	2
Landscaping Schedule	1
Landscaping Details for Center Island and Village Complex Entrance West Median	1
Grading Details	2
Temporary and Permanent Street Lighting Electrical Details	6
Specific Details	2
STATE District One Details	12
Pre-Stage Cross Sections	20 sections
Final Cross Sections	30 sections
Bike Path Cross Sections	10 sections

- c. Show ties, horizontal control points, and vertical benchmarks established by LA's consultant and benchmarks established during the supplemental survey performed during Phase II.
 - d. Prepare drawings at 1:20 scale. Drawings will show proposed roadwork, removal items, pavement markings, and drainage work. Suggested detour and staging drawings will be prepared at 1:50 scale. It is anticipated the suggested maintenance of traffic will include four stages.
 - e. Prepare separate pre-stage and final cross sections every 50 feet and at the centerlines of driveways and side streets.
 - f. Prepare and submit special provisions and opinion of probable construction cost at prefinal and final submittals. Prepare and submit opinion of probable construction cost and estimate of time at final submittal.
2. Utility and Public Communication
 - a. Identify potential utility conflicts.
 - b. Draft letters to utility companies explaining potential conflicts to include with prefinal and final drawings.
 - c. Communicate design and scheduling changes for the project with utility companies.

EXHIBIT C

- d. Assist LA with public education of roundabouts. Public education will consist of one public presentation at Village Hall on roundabouts in general and how to drive through the Ravinia Avenue roundabout. The Village will advertise the public meeting. ENGINEER will prepare information for the Village to post on a roundabout website the Village will create and maintain.
3. Quality Assurance and Quality Control (QA/QC)
 - a. Conduct a QA/QC review prior to each submittal and throughout the project as necessary. QA/QC review will be implemented in accordance with CONSULTANT's QA/QC procedures.
4. Meetings
 - a. Attend a kickoff meeting at STATE's Schaumburg, Illinois, office.
 - b. Attend one progress meeting with LA.
 - c. Attend one meeting with LA and owner of Parcel C (Permanent Tax Number 27-09-220-058-0000) in Cooper Square Subdivision for the Village's acquisition of permanent right-of-way and temporary construction easements.
 - d. Prepare and attend one public meetings held at the LA's Village Hall. Notification letters and advertisements will be created and distributed by the LA. The meeting will serve as an introduction to roundabouts and power point presentation of the project. The ENGINEER will provide up to three roundabout educational exhibits and up to two exhibits of the Ravinia Avenue roundabout that reflect the proposed improvements.

Submittal Process

1. Submit a single concurrent prefinal plan drawing to LA, STATE, MWRDGC, and utility companies.
 - a. Distribute to STATE seven 11-inch by 17-inch drawing sets, specifications, and an opinion of probable construction cost.
 - b. Distribute to LA two 11-inch by 17-inch drawing sets, one 22-inch by 34-inch drawing set, specifications, and opinion of probable construction cost estimate.
 - c. Distribute to utility companies four 11-inch by 17-inch drawing sets.
2. Incorporate review comments as necessary from LA and STATE.
3. Submit the final plan submittal concurrently to LA, STATE, and utility companies.
 - a. Distribute to STATE one 22-inch by 34-inch Mylar drawing set and two 11-inch by 17-inch drawing sets, specifications, opinion of probable construction cost, and estimate of time.
 - b. Distribute to LA one 22-inch by 34-inch drawing set and two 11-inch by 17-inch drawing sets with specifications, opinion of probable construction cost, estimate of time, and electronic files (all MicroStation, Excel, and Word files, and one portable document file each of drawings and specifications).
 - c. Distribute to utility companies four 11-inch by 17-inch drawing sets.
4. Address comments received on final drawings from LA and STATE. Incorporate into the final submittal as necessary.

Construction Monitoring &
Observations
Construction Materials Testing
Tunnels and Underground Openings
Geotechnical Engineering &
Evaluation

SEECO Consultants Inc.
CONSULTING ENGINEERS

Subsurface Explorations
Foundation Analysis & Design
Structural Rehabilitation
Condition Surveys
Dams and Drainage Studies

June 11, 2015

Mr. Marc Grigas, PE
Strand Associates Inc.
1170 Houbolt Rd.
Joliet, IL 60431

REVISED PROPOSAL

Additional Subsurface Exploration, Laboratory Testing and
Geotechnical Engineering and Analysis for the Proposed
147th and Ravinia Improvements, Orland Park, IL
Section 12-00069-00-CH

Dear Mr. Grigas:

Pursuant to your request, SEECO Consultants, Inc. is pleased to present our proposal for the above referenced project. In preparing our proposal, we have reviewed pertinent information and have discussed the project with you. It is our understanding that the proposed alignment has been changed.

The scope of work SEECO is proposing is as follows:

- Perform a total of eight (8) borings to 10 feet for the pavement and four (4) borings to 10 feet for the bio swale areas. The boreholes will be located at locations consistent with the improvements and will be field staked by SEECO. It is assumed the locations will be accessible to a truck mounted drill rig. One flag person will be utilized. Elevations will be interpolated from plans to be supplied to us.
- The PESA did not indicate areas of environmental concern. Representative soil samples will be collected and field screened for the presence of volatile organic vapors using a photo ionization detector (PID). Visual and olfactory senses will also be used to screen the soil samples for the presence of petroleum hydrocarbons. If no samples display an elevated PID reading, and pH test results meet the MAC Table, then the soil will be assumed to be, to the best of our knowledge, clean, uncontaminated fill material. This information will be documented on the IEPA LPC-662 form. One form will be prepared. Screening or prescreening of samples at jobsite is no guarantee that landfill facility will accept/not reject materials. Nor is it a determination that the site is entirely clean of contaminants per IEPA standards. Preparation of LPC 662 or 663 Forms is no guarantee that material will be accepted by landfills or CCDD facilities.
- The resulting soil samples will be returned to SEECO's laboratory for further testing and analysis. Visual Classification, Moisture Content and Unconfined Compressive Strength utilizing a calibrated penetrometer will be performed on all samples. One Illinois Bearing Ratio test will be performed.
- Upon completion of the field exploration and laboratory testing a written addendum to the geotechnical report will be prepared under the direction of a Registered Professional/Structural Engineer of Illinois. The report will address encountered subsurface soil conditions, laboratory

REVISED PROPOSAL

Additional Subsurface Exploration, Laboratory Testing and
Geotechnical Engineering and Analysis for the Proposed
147th and Ravinia Improvements, Orland Park, IL
Section No. 12-00069-00-CH

June 11, 2015

Page 2

data, pavement recommendations, sign support recommendations, bio swale recommendations and general construction considerations. Previous applicable soils data performed by others will be included. Soil boring profiles will be added to profile drawings supplied to us by you. Current/updated IDOT RGR criteria will be addressed, as applicable.

- It is anticipated that right of entry and access locations to the site will be provided to us. Boring locations may be offset as required. No utility R.O.W. conflicts are anticipated. SEECO will not be responsible for restoration costs, if any. This contract is not assignable. No permits or bonds are required.

The cost for these services will be \$19,447.87 per the attached IDOT CECS.

We will proceed with the work as outlined after we receive a signed supplemental subconsultant agreement from Strand Associates, Inc.

If there are any questions with regard to this proposal, I would be glad to discuss them with you. We are very interested in providing you with our services on this project and assure you of our utmost cooperation.

Respectfully submitted,

SEECO Consultants, Inc.



Donald C. Cassier,
Director of Field Services



Collin W. Gray, S.E., P.E.
President

DCC:arm

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SUMMARY OF DIRECT COSTS

147th & Ravinia, Orland Park, IL

Mobilization of Equipment and Personnel	\$ 400.00
PID Meter	
Estimate 1 day @ \$80.00/day	\$ 80.00
Soil Borings, Truck Mounted Rig	
0'-25' Estimate 120' @ \$27.00/lf	\$3,240.00
Visual Classification (AASHTO), Moisture Content, Unconfined Compressive Strength Utilizing a Calibrated Penetrometer Tests	
Estimate 46 tests @ \$10.00/test	\$ 460.00
Organic Content Tests	
Estimate 4 tests @ \$85.00/test	\$ 340.00
Grain Size Analysis	
Estimate 4 tests @ \$195.00/test	\$ 780.00
Atterberg Limits	
Estimate 4 tests @ \$95.00/test	\$ 380.00
pH Tests	
Estimate 11 tests @ \$25.00/test	\$ 275.00
Illinois Bearing Ratio (includes Standard Proctor Test)	
Estimate 1 test @ \$550.00/test	<u>\$ 550.00</u>
ESTIMATED TOTAL DIRECT COSTS:	\$ 6,505.00

COST PLUS FIXED FEE

COST ESTIMATE OF CONSULTANT SERVICES

FIRM	PSB	PRIME/SUPPLEMENT
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
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99	1	1
100	1	1

SEECO Consultants Inc.

DATE 06/11/15

OVERHEAD RATE	1.8
COMPLEXITY FACTOR	0

[illegible]

DBE 0.00%

DBE

POLACH APPRAISAL GROUP, INC.

1761 S. Naperville Road • Suite 103
Wheaton, Illinois 60189
Phone: 630.682.4650
Fax: 630.682.4814

121 W. Wacker Drive • Suite 856
Chicago, Illinois 60601
Phone: 312.422.1200
Fax: 312.422.1201

PROPOSAL FOR PROFESSIONAL SERVICES

AT THE REQUEST OF: Marc A. Grigas, P.E.
Strand Associates, Inc.
1170 S. Houbolt Rd.
Joliet, IL 60431

WITH REFERENCE TO THE FOLLOWING DESCRIBED PROPERTY:
Northeast Corner of Ravinia Avenue and 147th Street
Orland Park, IL

POLACH APPRAISAL GROUP, INC., HEREBY AGREES TO PERFORM THE FOLLOWING PROFESSIONAL SERVICES:

Appraisal and consulting services to be performed in the following stages:

Appraisal Review

Inspection of the subject property and surrounding area; research with respect to the subject property; review and inspection of market data research; analysis of the subject property and the market data; review of the submitted appraisal report in connection with the proposed partial acquisition and temporary easement on the subject property. Preparation of a review appraisal report for the property.

MARC A. GRIGAS DOES HEREBY RETAIN **POLACH APPRAISAL GROUP, INC.**, BASED UPON THE FOLLOWING TERMS AND CONDITIONS:

The time of completion will be as follows (21) twenty-one days from date appraisal report to be reviewed is received.

The fees for these services will be as follows \$1,500.

The above fees are only applicable during the current calendar year. In the event time is expended in subsequent years as part of this agreement, the hourly rates will reflect future increases.

To ensure proper billing, please indicate below the person responsible for payment of the aforementioned fees:

Company: _____
Contact Person: _____
Title: _____
Address: _____
City, State, Zip: _____

POLACH APPRAISAL GROUP, INC.

May 29, 2015
Marc A. Grigas

Page 2
Proposal For Professional Services Cont'd.

BY PAYMENT OF THE RETAINER REQUESTED IN THE AMOUNT OF **(-0-) NONE REQUIRED** with the balance of the recited fees to be paid AS BILLED, **MARC A. GRIGAS** does hereby confirm the above terms and conditions in addition to accepting those standard **CONTINGENT AND LIMITING CONDITIONS** attached hereto as Exhibit "A".

No changes in this assignment shall be made without the expressed consent of the undersigned. If upon inspection of the captioned property or review of the material to be supplied by the client or agent, it is determined by **POLACH APPRAISAL GROUP, INC.**, that misrepresentations have been made with respect to the property or data pertinent to this appraisal, the appraisers reserve the right to cancel this contract and refund the retainer charged, less a reasonable inspection fee and actual expenses, or to revise our proposal in accordance with actual conditions and submit same to the client for his review and acceptance.

This proposal is valid for (21) twenty-one days from the date affixed by **POLACH APPRAISAL GROUP, INC.** It is understood that work will only commence on this assignment upon our receipt of the signed copy of this proposal along with the required retainer.

This proposal is submitted to document the agreement between the parties. In the event there are any questions or comments before signing this proposal, please call the undersigned. **POLACH APPRAISAL GROUP, INC.**, is pleased to have the opportunity to be of service to you in this assignment.



Date

5/29/15

Kenneth F. Polach, MAI, SRA
POLACH APPRAISAL GROUP, INC.

Date

Marc A. Grigas
STRAND ASSOCIATES, INC.



June 1, 2015

Mr. Marc Grigas
Strand Associates, Inc.
1170 S. Houbolt Road
Joliet, IL 60431

Re: Proposal for Negotiation Services
Orland Park Ravinia Avenue Roundabout Project
One Parcel: NEC 147th Street and Ravinia Avenue

Dear Mr. Grigas:

We have reviewed the information provided. Our proposal for negotiation services is as follows:

Scope of Service: Provide negotiation services for the acquisition of one parcel consisting of a fee simple acquisition and a temporary construction easement. Negotiations will be performed in compliance with IDOT Land Acquisition Policies and Procedures. Negotiation services will also include obtaining right-of-way certification by IDOT. Negotiation and certification services will be performed by Colette Tuman, IDOT-approved fee negotiator. Negotiations will begin upon receiving authorization to proceed, the project receiving Design Approval from IDOT, and upon the review appraisal receiving approval by IDOT Bureau of Land Acquisition.

Fee for Negotiation and Right-of-Way Certification Services:

<u>Property</u>	<u>Proposed Fee</u>
One Parcel: NEC 147th Street and Ravinia Avenue	\$4,500

If additional parcels requiring negotiation and certification services are added to the project, the proposed fee will be \$4,500 per additional parcel.

If you have any questions, please contact me.

Yours truly,

HAMPTON, LENZINI AND RENWICK, INC.

By:

ReJena Lyon, PE, PLS
Executive Vice President



May 28, 2015

Mr. Marc Grigas, P.E.
Strand Associates, Inc.
1170 S. Houbolt Road
Joliet, IL 60431

Re: Proposal for Appraisal Service
Orland Park Ravinia Avenue Roundabout Project
One parcel: NEC 147th Street and Ravinia Avenue

Dear Mr. Grigas:

We have reviewed the information provided. Our proposal for appraisal services is as follows:

Scope of Service: Provide an appraisal report with a value estimate of compensation to the property owner for the partial acquisition and the temporary easement to be acquired. The report will be prepared in compliance with the Uniform Standards of Professional Appraisal Practice (USPAP). The report will be prepared by David M. Rogers and Neil K. Steffens, MAI, SRA. Both are Illinois Certified General Appraisers. Reports will be prepared on the appropriate IDOT Form LA33A including estimated value of the whole property, value of property acquired, damages to the remainder (if any), and valuation of the temporary easement. Reports will be completed within approximately four weeks after authorization to proceed.

Fee for Appraisal Service:

<u>Property</u>	<u>Proposed Fee</u>
One parcel: NEC 147th Street and Ravinia Avenue	\$3,000

Yours truly,

HAMPTON LENZINI AND RENWICK, INC.

David M. Rogers
Illinois Certified General Appraiser
#553.001802

Neil K. Steffens, MAI, SRA
Illinois Certified General Appraiser
#553.000300

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Wheatland

Title Guaranty

105 West Veterans Parkway, Yorkville, IL 60560

Phone: 630-892-2323

Fax: 630-892-2390

May 29, 2015

Mr. Marc Grigas
Strand Associates, Inc.
1170 South Houbolt Road
Joliet, IL 60431

Re: Orland Park Ravinia Avenue Roundabout
Title Insurance Proposal #15-123

Dear Marc:

Thank you for the opportunity to review your request for title work on the above referenced project. Our proposed title commitment fee for this project is \$1,000 per parcel.

Please be advised, the above quoted price is per tax parcel number, and includes all requested document copies and later dates.

If any of the parcels have the same owner, but have a different chain of title, Wheatland will provide one title commitment per chain of title.

The cost per title commitment, as stated above, does not include any parcels that are found to be currently or previously owned by a railroad, nor does it include a title policy.

Additional services are available. Please contact our office for pricing.

If you should have any questions, or need any additional information, please contact me.

Thank you,

John D. Ammons

PROJECT SCHEDULE

EXHIBIT D

CONSULTANT: Strand Associates, Inc.
 ROUTE: Ravinia Ave. (FAU Route 1709)
 SECTION: 12-00069-00-CH
 PROJECT NO.: M-4003(032)
 JOB NO.: D-91-447-12
 TYPE OF FUNDING: STP
 COUNTY: Cook
 LA CONTACT: Kurt Corrigan, P.E.

Task													2017			
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
ADMINISTRATION / UTILITY COMMUNICATION																
LAND ACQUISITION																
PICK-UP TOPOGRAPHICAL SURVEY																
DESIGN																
PREFINAL ROADWAY PLANS																
FINAL ROADWAY PLANS																
MWRDGC WATERSHED PERMITTING																
QA / QC																

PREFINAL PLANS TO DISTRICT January 2017
 FINAL PS&E TO DISTRICT March 2017
 ROW CERTIFIED BY BLA April 2017
 TARGET LETTING DATE June 2017