

Municipality City of Collinsville	L O C A L A G E N C Y	 Illinois Department of Transportation Preliminary Engineering Services Agreement For Motor Fuel Tax Funds	C O N S U L T A N T	Name Oates Associates, Inc.
Township Collinville				Address 100 Lanter Ct., Suite 1
County Madison				City Collinsville
Section 14-00101-00-PV: 15-00101-00-PV				State Illinois

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 improvement of the above SECTION. Motor Fuel Tax Funds, allotted to the LA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

Section Description

Name Sugar Loaf Road Pavement reconstruction (Sec. 14-00101-00-PV) and reconstruction (Sec. 15-00101-00-PV)

Route _____ Length 0.34 Mi. 1,800 FT (Structure No. n/a)

Termini Illinois Route 157 to 1,800 ft east of Illinois Route 157

Description:

Section 14-00101-00-PV consists of pavement reconstruction/rehabilitation of approx. 1,200 ft of roadway from Illinois Route 157 to approx. 1,200 ft. east. Section 15-00101-00-PV extends from the end of the pavement project to about 600 ft. to the east and consists of realignment, new HMA pavement, concrete curb and gutter, storm sewer, sidewalk and appurtenances.

Agreement Provisions

The Engineer Agrees,

1. To perform or be responsible for the performance of the following engineering services for the LA, in connection with the proposed improvements herein before described, and checked below:
 - a. ☒ Make such detailed surveys as are necessary for the preparation of detailed roadway plans
 - b. ☐ Make stream and flood plain hydraulic surveys and gather high water data, and flood histories for the preparation of detailed bridge plans.
 - c. ☒ Make or cause to be made such soil surveys or subsurface investigations including borings and soil profiles and analyses thereof as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations are to be made in accordance with the current requirements of the DEPARTMENT.
 - d. ☐ 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.
 - e. ☐ Prepare Army Corps of Engineers Permit, Department of Natural Resources-Office of Water Resources Permit, Bridge waterway sketch, and/or Channel Change sketch, Utility plan and locations, and Railroad Crossing work agreements.
 - f. ☐ Prepare Preliminary Bridge design and Hydraulic Report, (including economic analysis of bridge or culvert types) and high water effects on roadway overflows and bridge approaches.
 - g. ☒ Make complete general and detailed plans, special provisions, proposals and estimates of cost and furnish the LA with ~~five~~ (5) copies of the plans, special provisions, proposals and estimates. Additional copies of any or all documents, if required, shall be furnished to the LA by the ENGINEER at his actual cost for reproduction.
 - h. ☒ Furnish the LA with survey and drafts in quadruplicate of all necessary right-of-way dedications, construction easement and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.

Note: Four copies to be submitted to the Regional Engineer

- i. ☐ Assist the LA in the tabulation and interpretation of the contractors' proposals
 - j. ☒ Prepare the necessary environmental documents in accordance with the procedures adopted by the DEPARTMENT's Bureau of Local Roads & Streets.
 - k. ☒ Prepare the Project Development Report when required by the DEPARTMENT.
- (2) That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to the AGREEMENT, will be in accordance with current standard specifications and policies of the DEPARTMENT. It is being understood that all such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the LA and the DEPARTMENT.
- (3) To attend conferences at any reasonable time when requested to do so by representatives of the LA or the Department.
- (4) In the event plans or surveys are found to be in error during construction of the SECTION and revisions of the plans or survey corrections are necessary, the ENGINEER agrees that he will perform such work without expense to the LA, even though final payment has been received by him. He shall give immediate attention to these changes so there will be a minimum delay to the Contractor.
- (5) That basic survey notes and sketches, charts, computations and other data prepared or obtained by the Engineer pursuant to this AGREEMENT will be made available, upon request, to the LA or the DEPARTMENT without cost and without restriction or limitations as to their use.
- (6) That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by him and will show his professional seal where such is required by law.

The LA Agrees,

1. To pay the ENGINEER as compensation for all services performed ~~as stipulated in paragraphs 1a, 1g, 1i, 2, 3, 5 and 6~~ in accordance with one of the following methods indicated by a check mark:
 - a. ☐ A sum of money equal to _____ percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.
 - b. ☐ A sum of money equal to the percent of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:

Schedule for Percentages Based on Awarded Contract Cost

Awarded Cost	Percentage Fees	(see note)
Under \$50,000	_____	%
	_____	%
	_____	%

- c. ☒ CPFF = $DL + DL(OH) + 14.5\%[DL + R(DL) + OH(DL) + IHDC]$

Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.

- ~~2. To pay for services stipulated in paragraphs 1b, 1c, 1d, 1e, 1f, 1h, 1j & 1k of the ENGINEER AGREES at actual cost of performing such work plus _____ percent to cover profit, overhead and readiness to serve "actual cost" being as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided under the paragraph 1b, 1c, 1d, 1e, 1f, 1h, 1j & 1k. If the ENGINEER sublets all or part of this work, the LA will pay the cost to the ENGINEER plus a five (5) percent service charge.~~

"Cost to Engineer" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from the party doing the work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm, including the Principal Engineer, perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the work performed.

3. That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made as soon as practicable after the services have been performed in accordance with the following schedule:
 - a. Upon completion of detailed plans, special provisions, proposals and estimate of cost - being the work required by paragraphs 1a through 1g under THE ENGINEER AGREES - to the satisfaction of the LA and their approval by the DEPARTMENT, 100 percent of the total fee due under this AGREEMENT based on the approved estimate of cost.
 - b. Upon award of the contract for the improvement by the LA and its approval by the DEPARTMENT, 100 percent of the total fee due under the AGREEMENT based on the awarded contract cost, less any amounts paid under "a" above.

By Mutual agreement, partial payments, not to exceed 100 percent of the amount earned, may be made from time to time as the work progresses.

4. That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in paragraphs 1a, through 1h and prior to the completion of such services, the LA shall reimburse the ENGINEER for his actual costs plus _____ percent incurred up to the time he is notified in writing of such abandonment ~~—“actual cost” being defined as in paragraph 2 of THE LA AGREES on the basis selected in paragraph 1 of the LA Agrees.~~
5. That, should the LA require changes in any of the detailed plans, specifications or estimates except for those required pursuant to paragraph 4 of THE ENGINEER AGREES, after they have been approved by the DEPARTMENT, the LA will pay the ENGINEER for such changes on the basis of actual cost plus _____ percent to cover profit, overhead and readiness to serve ~~—“actual cost” being defined as in paragraph 2 of THE LA AGREES. It is understood that “changes” as used in this paragraph shall in no way relieve the ENGINEER of his responsibility to prepare a complete and adequate set of plans and specifications selected in paragraph 1 of the LA Agrees.~~

It is Mutually Agreed,

1. That any difference between the ENGINEER and the LA concerning their interpretation of the provisions of this Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.
2. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at his last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all surveys, permits, agreements, preliminary bridge design & hydraulic report, drawings, specifications, partial and completed estimates and data, if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with Section 4 of THE LA AGREES.
3. That if the contract for construction has not been awarded one year after the acceptance of the plans by the LA and their approval by the DEPARTMENT, the LA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under this AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LA and the DEPARTMENT.
4. That the ENGINEER warrants that he/she has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, to solicit or secure this contract, and that he/she has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration, contingent upon or resulting from the award or making of this contract. For Breach or violation of this warranty the LA shall have the right to annul this contract without liability.

IN WITNESS WHEREOF, the parties have caused the AGREEMENT to be executed in quadruplicate counterparts, each of which shall be considered as an original by their duly authorized officers.

Executed by the LA:

ATTEST: City of Collinsville of the
(Municipality/Township/County)
State of Illinois, acting by and through its
By City Council
Kim Wasser, Clerk By Mayor
(Seal) Title

Executed by the ENGINEER:

ATTEST: Oates Associates, Inc.
100 Lanter Court, Suite 1
Collinsville, IL 62234
By Joseph G. Hagerty By Bruce P. Schopp
Title Joseph G. Hagerty, CEO Title Bruce P. Schopp, President, COO

<p>Approved</p> <p>_____</p> <p>Date</p> <p>Department of Transportation</p> <p>_____</p> <p>Regional Engineer</p>



FIRM:	OATES ASSOCIATES, INC.
ROUTE:	SUGAR LOAF ROAD - PH. 1 & 2
SECTION:	14-00101-00-PV; 15-00101-PV
COUNTY:	MADISON
JOB NO.:	17126.001
PTB NO.:	N/A

PTB NO.: N/A

COMPLEXITY FACTOR: 0.000

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Illinois Department of Transportation

SUMMARY OF PERSON HOURS

FIRM: OATES ASSOCIATES, INC.
ROUTE: SUGAR LOAF ROAD - PH. 1 & 2
SECTION: 14-00101-00-PV; 15-00101-PV
COUNTY: MADISON
JOB NO.: 17126.001
PTB NO.: N/A

TASK	PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	TECH. II	TECH. I	TOTAL
1.0 FIELD SURVEYS		4	6	48	74	28	160
3.0 PROJECT DEVELOPMENT REPORT			31	89			120
4.0 UTILITY COORDINATION			6	9			15
7.0 GEOTECHNICAL REPORT			2	3			5
10.0 DRAINAGE			11	29			40
11.0 PRELIMINARY PLANS - ROAD			46	150	4		200
12.0 FINAL PLANS - ROAD			45	180			225
13.0 RIGHT OF WAY		41		97	20	12	170
15.0 ADMINISTRATION / MANAGEMENT		1	58	1			60
16.0 QA/QC	10						10
TOTALS:	10	46	205	606	98	40	1,005
							1,005



PAYROLL ESCALATION TABLE
(FIXED RAISES)

FIRM: OATES ASSOCIATES, INC.
PRIME/SUPPLEMENT: PRIME
PTB NO.: N/A

CONTRACT TERM: 15 MONTHS
START DATE: 1/1/2018
NEXT RAISE DATE: 7/1/2018
COMPLETION DATE: 4/2/2019

OVERHEAD RATE: 163.64%
COMPLEXITY FACTOR: 0.000
% OF RAISE: 3.00%

ESCALATION PER YEAR

1/1/2018	-	7/1/2018	7/1/2018	-	4/2/2019	-	-	-
6	15	9	15	60.00%	40.00%	0.00%	0.00%	0.00%
101.8000%								

The total escalation for this project would be: 1.80%



Illinois Department
of Transportation

FIRM:	OATES ASSOCIATES, INC.
PRIME/SUPPLEMENT:	PRIME
PTB NO.:	N/A

ESCALATION FACTOR: 1.80%

NOTE: CURRENT RATES ARE AS OF JULY 1, 2017

CLASSIFICATION	CURRENT RATE	ESCALATED RATE
PRINCIPAL	\$73.32	\$70.00
SR. PROFESSIONAL II	\$63.47	\$64.81
SR. PROFESSIONAL I	\$58.74	\$59.80
PROFESSIONAL IV	\$52.80	\$53.75
PROFESSIONAL III	\$46.88	\$47.72
PROFESSIONAL II	\$41.59	\$42.34
PROFESSIONAL I	\$34.46	\$35.08
JUNIOR PROFESSIONAL	\$28.70	\$29.22
TECHNICIAN III	\$42.79	\$43.56
TECHNICIAN II	\$36.59	\$37.25
TECHNICIAN I	\$28.56	\$29.07
TECHNICIAN	\$21.63	\$22.02
TECHNICIAN INTERN	\$15.50	\$15.78

ESTIMATE OF PERSON HOURS

FIRM: OATES ASSOCIATES, INC.
 ROUTE: SUGAR LOAF ROAD - PH. 1 & 2
 SECTION: 14-00101-00-PV; 15-00101-PV
 COUNTY: MADISON
 JOB NO.: 17126.001
 PTB NO.: N/A

TASK		PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	TECH. II	TECH. I	TOTAL	SCOPE OF WORK
1.0	FIELD SURVEYS								
1.1	horizontal & vertical control		4	6	48	74	28	160	PH. 1 = 1,100 ft; PH. 2 = 600 ft
	research control location / coordinates, elevations, closure route		3		3	16	8	30	NAD 83 (2011) & NAVD 88, GPS derived
	set control point monuments in field / 3-point ties	1			1	8		10	Est. 7 control points total
	set control point coordinates & elevations / GPS	1			1	4	4	10	Est. 0.5 crew hr per CP to Set
	traverse between control points in field								Est. 0.5 crew hr per CP to Set
	elevation loop between benchmarks in field	1			1	4	4	10	(Done in previous item)
	office calculations / coordinates, elevations, closure								Est. 0.5 crew hr per TBM
1.2	topography		1		10	48	16	75	Topo 1,700 ft of roadway and then 500' of IL 157 each way, 2,700 ft total
	locate existing utilities				2	8		10	contact JULIE, document locate tickets, (survey location done in next item)
	topo / profile / cross sections (surface features)	1			4	40	16	61	Reconstruction section topo 100' wide swath along proposed alignment & ROW to ROW
	site visit/photos				4			4	on existing
	supplemental field surveys								document existing conditions
									n/a
1.3	hydraulic survey								n/a
1.4	process survey data for CADD			6	28			34	CADD platform (AutoCAD / MicroStation)
	draw existing topo			2	16			18	includes data collector processing
	create & process TIN surface			2	8			10	
	field review and edit topo & TIN			2	4			6	Remaining site visit to document surface after DTM build
1.5	staking				7	10	4	21	
	set proposed centerline control points & ties				1	4	4	9	3 point tie PC, PI, PTs
	set / tie boring locations for soil surveys / foundations				1	2		3	Est. staking locations for 2 soil borings for pavement design
	stake centerline for field check				1	4		5	Stake proposed centerline through reconstruction section for City review (lathes only)
	locate utility conflict potholes				4			4	for potholing - determine conflicts in CADD, one person on site to take shot after utility is exposed, excavation by City, one person for half a day
2.0	INTERSECTION DESIGN STUDY								Assume not needed at IL 157
3.0	PROJECT DEVELOPMENT REPORT			31	89			120	
3.1	preliminary forms & submittals			1	2			3	
	review funding application								n/a
	initial coordination meeting data form			1	2			3	Complete BLR 22410 for coordination meeting
	environmental survey request								Completed by the City
	environmental survey request - special waste								Completed by the City (PESA for IL 157 involvement)
3.2	meetings			8	23			31	
	bi-monthly coordination meetings			1	1			2	Assume one coordination meeting with IDOT and FHWA
	public informational meeting			2	4			6	meeting
	public hearing								N/A
	attendance sheet, fact sheet, displays, handouts			4	16			20	for informational meeting
	meeting minutes & memoranda			1	2			3	IDOT coordination
3.3	report				3			3	

ESTIMATE OF PERSON HOURS

FIRM: OATES ASSOCIATES, INC.
 ROUTE: SUGAR LOAF ROAD - PH. 1 & 2
 SECTION: 14-00101-00-PV; 15-00101-PV
 COUNTY: MADISON
 JOB NO.: 17126.001
 PTB NO.: N/A

TASK	PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	TECH. II	TECH. I	TOTAL	SCOPE OF WORK
cover sheet				1			1	
table of contents				1			1	
summary of attachments				1			1	
3.4 analysis & text			6	25			31	
location & existing conditions			1	4			5	traffic, structures, RR, contiguous sections
proposed improvement			2	8			10	need, policies, type of work, affects, variances, cost, ADA, adjacent sections
crash analysis			1	4			5	summary, data, countermeasures
right of way			1	4			5	impacts, displacements
prime farmland				1			1	IDOA, NRCS
floodplain encroachment				1			1	
Phase I & II NPDES storm water permit requirements				1			1	
"404" permit								Assume not needed
special waste								PESA, REC's, PSI (assume none, ESR completed by City with no impacts)
environmental survey								rivers, wetlands, archaeological, cultural, biological impacts (by City) - assume none
Section 4(f) lands								n/a
air quality								TIP conformance, hot-spot analysis, COSIM - assume none
noise								Assume not needed
work zone transportation management plans								state or significant routes - assume none
complete streets			1	2			3	n/a
maintenance of traffic								summarize process, any opposition?
public involvement								
coordination LA-IDOT-FHWA								
other coordination								
summary of commitments								Assume none prior to PDR approval
3.5 attachments & exhibits			8	20			28	prepare exhibits to include with PDR
location / vicinity map & functional classification map			1	2			3	
existing & proposed typical sections			1				1	see ROADWAY PLANS - typical sections for development
structure master report								n/a
bridge condition report (BCR) & approval cover letter								n/a
preliminary bridge design & hydraulic report approval letter								n/a
railroad crossing drawing								n/a
plan & profile sheets			2				2	see ROADWAY PRELIMINARY PLANS
intersection design studies (IDS)								n/a
spot map and/or collision diagrams			2	8			10	
SCS and IDOA coordination								n/a
"404" permit correspondence								n/a
environmental clearances & correspondence			1	2			3	biological, cultural & special waste sign-offs, done by City, exhibits by OA
property owner signoffs and/or correspondence				2			2	re: public comments
public meeting notifications			1	2			3	newspaper ad & property owner letter
bi-monthly coordination meeting minutes				1			1	see - meetings (above)
design variance request				1			1	see ROADWAY PLANS - design criteria
detour or alternate route map				2			2	
other coordination								
3.6 submittals			8	16			24	
print & submit draft PDR for IDOT / FHWA review			4	4			8	
respond to review comments			2	8			10	

ESTIMATE OF PERSON HOURS

FIRM: OATES ASSOCIATES, INC.
 ROUTE: SUGAR LOAF ROAD - PH. 1 & 2
 SECTION: 14-00101-00-PV; 15-00101-PV
 COUNTY: MADISON
 JOB NO.: 17126.001
 PTB NO.: N/A

TASK	PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	TECH. II	TECH. I	TOTAL	SCOPE OF WORK
plot, print & submit final PDR for IDOT / FHWA approval			2	4			6	
4.0 UTILITY COORDINATION			6	9			15	Assume minimal utility coordination needed due to rural location
4.1 utilities			6	9			15	
request type, size & location of existing facilities			1	2			3	send topo drawing to utilities
verify type, size & location of existing facilities			1	2			3	send preliminary plans to utilities
confirm conflicts & verify adjustment / relocation work			1	2			3	send pre-final plans & schedule to utilities
coordination meetings with utilities			1	1			2	
review utility adjustment / relocation plans from utilities			2	2			4	
utility agreements								
5.0 HYDRAULIC REPORT								n/a
6.0 BRIDGE CONDITION REPORT								n/a
7.0 GEOTECHNICAL REPORT			2	3			5	Coordination & review only. Report by Subconsultant.
7.1 roadway			2	3			5	see also: FIELD SURVEYS - staking
soil borings and testing			1	1			2	
pavement sub-base			1	2			3	
subsurface drainage / underdrains								n/a
settlement analysis / recommendations								n/a
stability analysis / sideslopes								n/a
mast arm foundation recommendations								n/a
special conditions								n/a
8.0 TYPE SIZE & LOCATION PLANS								n/a
9.0 STRUCTURE PLANS								n/a
10.0 DRAINAGE			11	29			40	drain near IL 157. For reconstruction section, assume storm sewer to a logical discharge point
10.1 storm sewer design			6	24			30	Est. 600 ft of roadway.
storm sewer schematic layout			1	4			5	
drainage area computations			1	4			5	Assume 8 inlets - 0.5 hr area computation per inlet
inlet computations / type, size and layout			1	4			5	Hydralfow modeling, inlet capacity, inlet spread
storm sewer computations / type and size			1	4			5	Hydralfow modeling pipe capacity
final storm sewer layout			2	8			10	Final layout, labeling, etc.
10.2 culvert design			5	5			10	Culvert replacement at IL 157
schematic drainage layout			1	1			2	
drainage area computations			1	1			2	
discharge computations				1			1	
calculate natural conditions								
size proposed culvert			1				1	
culvert profile and layout			1	1			2	
outlet treatment			1	1			2	

ESTIMATE OF PERSON HOURS

FIRM: OATES ASSOCIATES, INC.
 ROUTE: SUGAR LOAF ROAD - PH. 1 & 2
 SECTION: 14-00101-00-PV; 15-00101-PV
 COUNTY: MADISON
 JOB NO.: 17125.001
 PTB NO.: N/A

TASK	PRIN.	SR. PROF. III	SR. PROF. I	PROF. I	TECH. II	TECH. I	TOTAL	SCOPE OF WORK
10.3 ditch design								Assume none
11.0 PRELIMINARY PLANS - ROAD			46	150	4		200	
11.1 data collection/ criteria			4	12	4		20	
develop design criteria			2	8				Includes development of variances
develop existing & proposed typical sections			1	4			5	
pavement cores			1		4		5	Core existing pavement replacement section both lanes every 500 ft. est. 6 cores total
11.2 horizontal alignment			8	28			36	Horizontal alignment splitting curb on pavement section, new alignment on reconstruction section
set centerline location			4	16			20	
lay out pavement/ shoulders/ medians			2	8			10	
review right-of-way requirements			1	2			3	
review utility conflicts			1	2			3	
11.3 vertical alignment			7	24			31	Vertical alignment on pavement replacement section based on existing, new profile grade on reconstructed section
set centerline profile			4	16			20	
review storm sewers/ culverts/ ditches			2	4			6	
review utility conflicts				2			2	
develop preliminary earthwork			1	2			3	
11.4 preliminary design development			7	22			29	
pavement analysis & design			1	2			3	
intersection / interchange geometrics design			1	2			3	Assume bus turning movement radii at IL 157
develop construction staging			1	2			3	Assume closure to through traffic, local access only
guardrail/ barriers requirements								n/a
signage/ pavement markings			1	2			3	
utility relocation requirements			1	2			3	
layout entrances			2	12			14	12 entrances at 1.0 hr each
s/w ramp layouts								New ramps per highway standard
11.5 preliminary plan development			12	44			56	
plan- alignment/ stationing/ curve data			2	8			10	
pavement/ shoulders/ medians/ curbs/ sidewalks			2	8			10	
intersections/ interchanges labeling			2	4			6	IL 157 layout
intersection site distance			1	2			3	
entrances/ access roads labeling			1	6			7	12 entrances a 0.5 hr each
guardrail/ barriers								None anticipated
bridge approach pavement			1	4			5	n/a
construction limits			1	2			3	
right-of-way/ owners								
benchmarks/ control points			1	4			5	
profile- grades/ elevations/ curve data			1	4			5	
storm sewers/ culverts/ ditches labeling			1	4			5	
retaining walls								None anticipated
parking								n/a
structural plan coordination								n/a

ESTIMATE OF PERSON HOURS

FIRM: OATES ASSOCIATES, INC.
 ROUTE: SUGAR LOAF ROAD - PH. 1 & 2
 SECTION: 14-00101-00-PV; 15-00101-PV
 COUNTY: MADISON
 JOB NO.: 17125.001
 PTB NO.: N/A

TASK	PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	TECH. II	TECH. I	TOTAL	SCOPE OF WORK
11.5 preliminary cross-sections/ earthwork cut existing sections/ develop existing cross-section elevations proposed roadway templates end areas/ earthwork estimate plot & label ROW			4	12			16	
			2	8			10	
			1	2			3	
			1	2			3	
11.7 submittals			4	8			12	
preliminary alignment			1	2			3	Project Development Report (PDR) submittal
preliminary plan			1	2			3	(included with above item)
pre-final plan (field check)			1	2			3	
cost estimate			1	2			3	
12.0 FINAL PLANS - ROAD			45	180			225	
12.1 cover sheet			2	4			6	
location map/ project limits				1			1	
index of sheets				1			1	
standard drawings index				1			1	
general notes			2	1			3	
12.2 quantities			9	38			47	
pay items & code numbers			1	4			5	
pavement schedule & quantities			1	4			5	
entrances schedule & quantities			1	4			5	
storm sewer schedule & quantities			1	4			5	
pavement markings schedule & quantities				2			2	
removals schedule & quantities			1	4			5	
earthwork schedule & quantities			1	4			5	
other schedules & quantities			1	4			5	
summary of quantity schedule			2	8			10	
12.3 typical sections			2	4			6	Refine from preliminary and PDR
existing/ proposed typical sections - label pay-items/ thicknesses			1	2			3	
structural pavement design table			1	2			3	
12.4 construction detail sheets			1	8			9	
side streets & entrances				2			2	
pavement details				2			2	
s/w ramp details/ sheets								Assume none - based off of highway standards
drainage structures								Assume none - based off of highway standards
retaining walls								None anticipated
guardrail/ barriers			1	4			5	n/a
survey tie points								
12.5 intersection/ interchange sheets			1	4			5	
intersection/ interchange geometrics/elevations - checking/labeling			1	4			5	Refine from preliminary
pavement joint layouts								n/a
ramp profiles/ super/elevation tables								n/a

ESTIMATE OF PERSON HOURS

FIRM: OATES ASSOCIATES, INC.
 ROUTE: SUGAR LOAF ROAD - PH. 1 & 2
 SECTION: 14-00101-00-PV; 15-00101-PV
 COUNTY: MADISON
 JOB NO.: 17126.001
 PTB NO.: N/A

TASK	PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	TECH. II	TECH. I	TOTAL	SCOPE OF WORK
ramp terminal details								n/a
intersection/ interchange cross-section layout								n/a
12.6 maintenance of traffic			2	12			14	Assume complete closure - local traffic access only; IDOT will require signage/detour route off of IL 157
develop construction staging								
staging notes								n/a
staging details								n/a
detour plans			2	12			14	IDOT will require detour plans for IL 157 traffic
traffic control plans								Assume closure to through traffic; local access only
12.7 traffic signal plans								n/a
12.8 specially plan sheets			4	16			20	
pavement markings			2	8			10	Pavement marking and signing layout
signing plans								Included with pavement marking
lighting plans								n/a
erosion control			2	8			10	Assume disturbance > 1.0 ac. therefore needs a SWPPP
landscape plans								
12.9 road plan/profile sheets			6	22			28	Refine from preliminary and add labeling
plan-alignment/ stationing/ curve data			1	4			5	
pavement/ shoulders/ medians			1	4			5	
intersections/ interchanges			1	2			3	At IL 157
entrances/ access roads			1	4			5	
guardrail/ barriers								n/a
storm sewers/ culverts/ ditches			1	4			5	
construction limits			1	2			3	
cross-references				2			2	
12.10 cross sections			2	18			20	
hand edits				8			8	
proposed ditches/ culverts/ storm sewer			1	4			5	
proposed ROW limits				2			2	
earthwork end areas			1	2			3	
matchlines/ cross-references				2			2	
12.11 contract documents			12	38			50	
check sheets			1	4			5	
supplemental specifications			1	2			3	
interim special provisions (ISP)								
special provisions			8	24			32	
estimate of time			1	4			5	
estimate of cost			1	4			5	
12.12 bidding documents (local letting only)								n/a, bidding by IDOT
12.13 final PS&E submittal			4	16			20	
plot and assemble final plans			2	8			10	Electronic and hard copies submittal to IDOT
copy and review final CADD files								n/a; CADD files not submitted to IDOT for LA projects

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 COUNTY: MADISON
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TASK	PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	TECH. II	TECH. I	TOTAL	SCOPE OF WORK
copy and assemble computations				2			2	
copy and assemble contract documents				2			2	
final submittal and close-out			1	4			5	
obtaining signatures			1				1	
13.0 RIGHT OF WAY		41		97	20	12	170	Negotiations/Acquisitions to be performed under a separate contract.
13.1 survey		12		26	16	8	62	
research record information		2		4			6	Courthouse and in-house property research
review title reports		4		4			8	Est. 10 title reports
review locations in field / set survey limits								
locate and tie existing monumentation				2	16	8	26	
reconcile monumentation with record information		2		8			10	
establish existing ROW & property lines		4		8			12	
13.2 documents		24		60	4	4	92	
set proposed ROW								Done with final plan work
calculate bearings / distances, stations / offsets		4		8			12	
calculate lot closures and areas		4		8			12	Assume 6 parcels affected
prepare legal descriptions		8		16			24	Assume 6 legal descriptions
prepare ROW conveyance documents								By the City's attorney
prepare ROW plans								n/a
prepare statutory plats		6		24			30	Assume 6 parcel plats
prepare parcel plats		2		4	4	4	14	If needed. We won't know for sure until research is done
prepare monument records								
13.3 submittals		5		11			16	
review ROW needs with Client		2		2			4	
pre-final submittal - ROW plan only								
ROW conveyance documents		1		1			2	Engineer / Public Works Director & Attorney
final submittal - all documents		2		8			10	
13.4 negotiations / acquisitions								Done under separate contract
15.0 ADMINISTRATION / MANAGEMENT		1	58	1			60	May be included in other tasks for small projects.
scope of work reviews		1	58	1			60	
scheduling			8				8	
budget control			16				16	1.0 hr per month for duration
manpower planning			16				16	1.0 hr per month for duration
project team meetings (including start-up meeting)		1	2	1			4	
contract administration								
billings			16				16	1.0 hr per month for duration
16.0 QA/QC	10						10	May be included in other tasks for small projects.
16.1 QA/QC plan								adapt company plan to project
16.2 submittal reviews	10						10	
geotechnical reports	2						2	

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TASK		PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	TECH. II	TECH. I	TOTAL	SCOPE OF WORK
drainage reports									
structure reports / TS&L drawings									
preliminary structure plans									
preliminary road plans		2						2	
pre-final plans		2						2	
final plans		2						2	
final documents		2						2	
16.3 quality reviews									
X									



PROJECT SCHEDULE

FIRM: OATES ASSOCIATES, INC.
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SECTION: 14-00101-00-PV; 15-00101-PV
COUNTY: MADISON
JOB NO.: 17126.001
PTB NO.: N/A

TASK	MONTHS	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018	Jan 2019	Feb 2019	Mar 2019	Apr 2019	May 2019	Jun 2019	Jul 2019	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019	Jan 2020	Feb 2020	Mar 2020	Apr 2020						
FIELD SURVEYS	1.0																																		
PROJECT DEVELOPMENT REPORT	1.0																																		
UTILITY COORDINATION	0.0																																		
GEOTECHNICAL REPORT	0.0																																		
DRAINAGE	0.0																																		
PRELIMINARY PLANS - ROAD	1.0																																		
FINAL PLANS - ROAD	2.0																																		
RIGHT OF WAY	1.0																																		
ADMINISTRATION / MANAGEMENT	0.0																																		
QA/QC	0.0																																		
		IDOT REVIEW OF PDR AND PRELIM PLANS																																	
		IDOT REVIEW OF PRE-FINAL PLANS																																	
																				LETTING															

ANTICIPATED AUTHORIZATION: January, 2018
PROJECT DEVELOPMENT REPORT SUBMITTAL: July, 2018
PRELIMINARY PLAN SUBMITTAL TO DISTRICT: July, 2018
PRELIMINARY PLAN SUBMITTAL TO DISTRICT: January, 2019
FINAL PLANS TO DISTRICT: March, 2019
LETTING: June, 2019