

MEMORANDUM

TO: Steve Ehlmann, County Executive

FROM: Tracy Bayne, Acting Director of Finance *TJB*

DATE: February 23, 2023

RE: **Addendum #3 – Oates Associates, Inc.**
**RE: Route N Phase 3B (Formerly 15-211 David Hoekel
Parkway #2 South Point Prairie and Buckner Road
Realignment Project)**

Attached please find Addendum #3 in the amount of **\$88,200.00**, to the agreement with **Oates Associates, Inc.** to better match existing terrain and land use, minimize impacts to the property and to include pedestrian features, enclosed drainage and to separate the project into two separate bid packages. This addendum increases the total amount of the agreement to **\$676,413.00**.

Original Agreement	\$	252,756.00	
Addendum #1	\$	33,977.00	
Addendum #2	\$	301,480.00	
Addendum #3	\$	88,200.00	[167.61% aggregate increase]

This addendum will require approval of the St. Charles County Council as per 135.430 OSCCMo.

The account number that will be charged for this purchase is 2059400-47601 project 12216.

Enclosure
km

**ROUTE N PHASE 3B (formerly DHP #2)
S POINT PRAIRIE AND BUCKNER ROAD AT ROUTE N
ENGINEERING DESIGN SERVICES CONTRACT
ADDENDUM NO. 3**

An addendum to the contract entered into in the County of St. Charles, State of Missouri, by and between the County of St. Charles, Missouri, hereinafter referred to as County, and Oates Associates, Inc., an Illinois Corporation authorized to do business in the State of Missouri, hereinafter referred to as Consultant.

WITNESSETH:

WHEREAS, the County is seeking additional services from the Consultant for the Route N Phase 3B Project (formerly known as David Hoekel Parkway Phase 2) including revising the plans to better match the existing terrain and land use, add pedestrian features and enclosed drainage, as well as provide for breaking the project into two separate bid packages, and

WHEREAS, consultant has submitted a cost to provide professional and technical services, in addition to the Basic Services required in Section I of the Original Contract, and

WHEREAS, the County and Consultant have held subsequent meetings to define the terms and conditions which are specified herein of such professional and technical services,

NOW, THEREFORE, in consideration of the foregoing recitals, and the terms and conditions herein contained, it is agreed to the following:

SECTION I GENERAL

The Consultant shall serve as the County's professional and technical representative in the completion of the items described in this addendum.

SECTION II BASIC SERVICES OF CONSULTANT

The additional services to be provided by the Consultant under this addendum are described herein as part of the February 16, 2023 correspondence from the Consultant to the St. Charles County Highway Department and shall include all required engineering work to provide the additional services and reflect the information on the final construction plans.

SECTION III COMPENSATION ADDITIONAL SERVICES

The County shall pay Consultant for additional services rendered under Section II, of the addendum, for a fixed fee of \$88,200.00.

It is expressly understood and agreed that in no event will the total compensation to be paid for the additional services described in Section II of this addendum exceed \$88,200.00.

SECTION IV AUDIT CLAUSE FOR CONTRACTS

Examination of Records

The Contractor's records which shall include, but not be limited to, accounting records (hard copy, as well as computer readable data), written policies and procedures, subcontractor files, indirect cost records, overhead allocation records, correspondence, instructions, drawings, receipts, vouchers, memoranda, and any other data relating to this contract shall be open to inspection and subject to audit and/or reproduction by the County Auditor, or a duly authorized representative from the County, at the County's expense. The Contractor shall preserve all such records for a period of three years, unless permission to destroy them is granted by the County, or for such longer period as may be required by law, after the final payment. Since the Contractor is not subject to the Missouri Sunshine Law (Chapter 610, RSMo), information regarding the Contractor's operations obtained during audits will be kept confidential.

IN WITNESS WHEREOF, the parties have entered into this Agreement on the date last written below.

Executed by the County this _____ day of _____, 2023.

Executed by Oates Associates, Inc. this _____ day of _____, 2023.

OATES ASSOCIATES, INC.

ST. CHARLES COUNTY, MISSOURI

By _____

By _____

Title _____

Title STEVE EHLMANN
COUNTY EXECUTIVE

ATTEST:

ATTEST:

ST. CHARLES COUNTY REGISTRAR

CERTIFICATE OF DIRECTOR OF FINANCE

I certify that there is a balance otherwise unencumbered to the credit of the appropriation to which this order is chargeable, and a cash balance otherwise unencumbered in the treasury to the credit of the fund from which payment is to be made, each sufficient to meet this obligation.

TRACY BAYNE
ACTING DIRECTOR OF FINANCE



Collinsville
100 Lanter Ct, Ste 1
Collinsville, IL 62234
618.345.2200

St. Louis
720 Olive St, Ste 700
St. Louis, MO 63101
314.588.8381

Belleville
1 S Church St, Ste 200
Belleville, IL 62220
618.416.4688

St. Charles
820 S Main St, Ste 309
St. Charles, MO 63301
636.493.6277

Addendum # 3 – Route N Phase 3B (Formerly DHP Phase 2) – February 16, 2023

General Scope of Work

Engineering services are required for the modifications of contract plans, special provisions and estimates (PS&E) for Route N Phase 3B beginning approximately 500 feet north of Route N on South Point Prairie Road and continuing south to include the relocation and realignment of South Point Prairie Road and Buckner Road ending approximately 2,000 feet west of Route Z. The proposed modifications include revising the alignment and profile from the MoDOT corridor standards to the St. Charles County standards to reduce the property impacts and to include accommodations for sidewalks, bicycles lanes, and storm sewer along the south side of the roadway and future accommodations for a shared use path and storm sewer along the north side of the road.

The following is the anticipated scope of work required to complete the project while trying to reuse relevant aspects of our original and supplemental MoDOT design such as the topo and right of way field survey, portions of the drainage boundaries, and the title sheet. The other items will be revised or modified to establish the new alignment with the new accommodations. We anticipate that the traffic circulation report and alignment design phase will not be required for this project.

- 1. Phase 1 - Traffic Circulation Report – Not Required**
- 2. Phase 2 – Alignment Design Phase – Not Required**
- 3. Phase 3 - Conceptual Design**

This phase will develop the alignment and profile as part of the conceptual plan for review by the County. Included in this scope are:

3.2 Preliminary Hydraulic Report

The revised drainage system will convey water through storm sewer along the south side and roadside ditches and culverts along the north side. The hydraulic analysis will be adjusted to include the storm sewer layout along the south side of the roadway with considerations for future connections from the north side. The storm sewer drainage areas will be calculated based on the allowable spread and the adjusted typical section and profile.

Per our discussions, the County has agreed that the alignment design can follow AASHTO Table 3-13 for the Minimum Radii and Superelevation for Low-Speed Streets in Urban Areas. Based on the table and a 45-mph design speed, the superelevation can be eliminated if the radii are greater than 1039 feet. The design will be modified to meet these parameters and it is anticipated that superelevation will not be required, eliminating the need for storm sewer in the future median.

3.3 Conceptual Design Plans

The plans developed during this phase will be revised to include the proposed typical section, alignment, and storm sewer accommodations and will be the general outline for the future construction documents. The anticipated sheets to be included are:

- The alignment and profile will be revised to accommodate the new typical section. An alignment strip map submittal is not required.
- Typical section sheets will be modified as needed to reflect the drainage and pedestrian and bicycle accommodations.
- Plan and profile sheets – New plan and profile sheets will be generated for the entire project with the revised alignment and profile and typical section improvements.
- Storm sewer profile sheets will be added to reflect the drainage modifications.
- Cross section sheets – New cross section sheets will be generated for the entire project.

3.4 Conceptual Design Cost Estimate

A conceptual cost estimate will be prepared in spreadsheet format and grouped by major construction items. Then new pedestrian, bicycle and drainage items will be added to the estimate.

4. Phase 4 - Preliminary Design

This phase is intended to continue to refine the alignment based on review comments and the items mentioned previously. Upon completion of this phase, the construction documents will be approximately 80% complete with the major items addressed. The additional preliminary design phase services are summarized below.

4.1 Storm Water Design Report

The storm water design report will be a continuation of the hydraulic report and will finalize the schematic drainage and storm sewer layout with the preparation of calculations and detailed plans. Items anticipated and included in this scope are:

- Storm sewer drainage areas for each structure.
- Storm sewer design and capacity analysis.
- Incorporating the storm sewer items in the plan and profiles.
- Develop a report summarizing the storm sewer items on the project.

4.2 Preliminary Design Plans

The proposed typical section changes to accommodate pedestrian and bicycle traffic along with the drainage modifications for a future urban section will require revisions to the following items:

- Typical section sheets.
- Plan and profile sheets.
- Cross section sheets.
- Storm sewer profile sheets and drainage area maps
- Warping detail sheets.
- Erosion control sheets.

4.3 Preliminary Construction Cost Estimate

A preliminary construction cost estimate will be prepared with adjustments for the new items in spreadsheet format. The cost estimate will be listed as individual pay items and will follow the St. Charles County Standard Specifications for Arterial Highway Construction.

5. Phase 5 – Right-of-Way Design – Included in previous scope.

6. Phase 6 – Final Design Plans

This phase is intended to finalize the construction plans and produce the estimates, bid documents and specifications. This phase will finalize design plans, project specifications, and final engineer’s estimate. This modification includes breaking the project into two sets of plans and construction documents. These items are summarized below:

6.1 Final Design Plans

The additional scope included in this phase included developing the transition pavement locations where the projects are split and developing two sets of construction documents.

6.2 Project Specifications Book

The additional services will include a project specification book for each set of plans and will incorporate the front-end documents provided by the County and any job-specific specifications developed by Oates Associates. We do not anticipate any MoDOT review or coordination for the construction documents.

6.3 Final Engineer’s Estimate

The final engineer’s estimate will be prepared in spreadsheet format and include the additional pay items and quantities. The cost estimate will be listed as individual pay items and will follow the St. Charles County Standard Specifications for Arterial Highway Construction.

FIRM: OATES ASSOCIATES, INC.
 ROUTE: Route N Phase 3b - (Formerly DHP Phase 2)
 SECTION: Urban section, storm sewer, and pedestrian changes
 COUNTY: St. Charles County
 JOB NO.: 15158
 PTB NO.: St. Charles County Highway Department

SUMMARY OF PERSON HOURS & COST

Supplement #3 DATE: 01/16/23

TASK	PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	JR. PROF.				TOTAL HOURS	LABOR COST	DIRECT COST	SERVICES BY OTHERS	TOTAL COST
BILLING RATES:	\$230	\$220	\$205	\$125	\$100	\$0	\$0	\$0					
1.0 TRAFFIC CIRCULATION REPORT	0	0	0	0	0				0	\$0			\$0
2.0 ALIGNMENT DESIGN PHASE	0	0	0	0	0				0	\$0	\$0		\$0
3.0 CONCEPTUAL DESIGN PHASE	0	39	84	196	20				339	\$52,300	\$0	\$0	\$52,300
4.0 PRELIMINARY DESIGN	0	0	20	70	0				90	\$12,850	\$0		\$12,850
5.0 RIGHT-OF-WAY DESIGN	0	0	0	0	0				0	\$0	\$0		\$0
6.0 FINAL DESIGN PLANS	0	0	50	96	8				154	\$23,050	\$0		\$23,050
7.0 CONSTRUCTION PHASE SERVICES	0	0	0	0	0				0	\$0			\$0
TOTAL SUPPLEMENT													\$88,200
TOTAL HOURS:	0	39	154	362	28				583				
ESTIMATE OF LABOR COST:	\$0	\$8,580	\$31,570	\$45,250	\$2,800					\$88,200			\$88,200
ESTIMATE OF DIRECT COSTS:											\$0		\$0
ESTIMATE OF SERVICES BY OTHERS:												\$0	\$0
ESTIMATE OF TOTAL COST:										\$88,200	\$0	\$0	\$88,200

ESTIMATE OF PERSON HOURS

DATE: 01/16/23

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TASK	PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	JR. PROF.	TOTAL	SCOPE OF WORK
environmental evaluations	0	0	0	0	0	0	
conceptual plans	0	0	12	36	0	48	
title sheet - project title, funding, design designation, signature blocks							Included in previous scope.
develop new alignment							Assume the alignment is good - no modifications
develop profile for new alignment			4	16			accommodate ADA, and provide adequate longitudinal slope for
develop rough cross sections for establishing new profile			2	8			adjust template and make adjustments
mainline & side road typical sections			2	4			adjust typical sections for urban section and ped. accommodations
sideroad typical sections							assume no changes
sideroad details							Included in previous scope.
develop plan & profile linework			4	8			etc)
p&p - label ROW needs in plan view							Included in previous scope.
p&p - driveway geometrics / labels							Included in previous scope.
p&p - drainage structures in plan view with labels							Included in previous scope.
p&p - drainage ditches in plan and profile							Included in previous scope.
p&p - identify known utility conflicts							Included in previous scope.
x-sec - develop sheets and address alignment phase comments							Included in previous scope.
x-sec - label proposed and existing ditch labels							Included in previous scope.
x-sec - label proposed pavement x-slopes and elevations							Included in previous scope.
x-sec - label existing and proposed ROW and easements							Included in previous scope.
x-sec - confirm sight distance for side road and driveways							Included in previous scope.
x-sec - calculate and label earthwork end areas							Included in previous scope.
conceptual construction cost estimate	0	0	0	0	0	0	
coordination, submittals and meetings	0	0	0	0	0	0	

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TASK	PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	JR. PROF.	TOTAL	SCOPE OF WORK
4.0 PRELIMINARY DESIGN	0	0	20	70	0	90	
stormwater design report	0	0	8	16	0	24	11,000 feet of roadway drainage items (storm sewer, culverts, ditches)
address comments from the hydraulic report							Included in previous scope.
finalize drainage maps for inlets			2	4			adjust drainage areas and runoff calcs for the drainage items (SS)
formalize calculations for storm sewer capacity			2	4			adjust inlets and calcs for the revision and updates
formalize calculations for ditching and culvert capacity			2	4			review adjustments from storm sewer additions
summarize drainage structures - grades / elev / slopes / # / capacity, etc.			2	4			finalize the grades and sizes and label - 80 inlets
develop report with executive summary							Included in previous scope.
preliminary plans	0	0	10	48	0	58	
title sheet - update from review comments							Included with previous scope
update typical sections - mainline							Included with previous scope
update typical sections - side roads							Included with previous scope
p&p - refine and update from review comments							Included with previous scope
p&p - label topo and proposed features, dimension, UIP, TBR, TBR&R, etc.							Included with previous scope
p&p - update and add drainage structure information							Included with previous scope
p&p - include ditches in the profile							Included with previous scope
p&p - utilities updates from correspondence and conflicts							Included with previous scope
x-sec - proposed temporary pavement transitions and x-slopes							Included with previous scope
x-sec -add available utility information							Included with previous scope
x-sec -refine cross section sheets - hand edits for ties							Included with previous scope
storm sewer profile sheets - sta/offset and label culverts			8	40			assume 80 structures (0.5 hr per profile - roadway only) ~ 12 sheets @ 4 hours per sheet including checking
storm sewer profile sheets - rock backfill areas							Included above
drainage sheets - drainage map - update and finalize			2	8			finalize stormwater report map
retaining wall sheets							Included with previous scope
traffic control - coordination meeting with County							Included with previous scope
traffic control - develop construction staging							Included with previous scope
traffic control - review detour options							Included with previous scope
traffic control - staging sections, details and notes							Included with previous scope
traffic control - staging details							Included with previous scope
traffic control - overall plan map							Included with previous scope
intersection warping - geometrics and diagrams							Included with previous scope
intersection warping - elevations at edge of pavement							Included with previous scope
erosion control - plan sheets							Included with previous scope
erosion control - details							Included with previous scope

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TASK	PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	JR. PROF.	TOTAL	SCOPE OF WORK
preliminary construction cost estimate	0	0	2	6	0	8	add storm sewer land ped. items
update quantities by grouped pay items - earthwork							Included with previous scope
update quantities by grouped pay items - pavement							Included with previous scope
update quantities by grouped pay items - drainage & ped.			2	6			Additional storm sewer items (inlets, grates, pipes, etc.) & ped. items
update quantities by grouped pay items - traffic control							Included with previous scope
refine unit cost							Included with previous scope
develop estimate - spreadsheet format							Included with previous scope
public meeting	0	0	0	0	0	0	Included in previous scope.
coordination, submittals and meetings	0	0	0	0	0	0	Included in previous scope.
5.0 RIGHT-OF-WAY DESIGN	0	0	0	0	0	0	Included in previous scope.
6.0 FINAL DESIGN PLANS	0	0	50	96	8	154	
finalize plans	0	0	2	0	8	10	
title sheet - finalize							Included with previous scope
typical sections - finalize							Included with previous scope
p&p - plan view - finalize							Included with previous scope
p&p - profile view - finalize							Included with previous scope
x-sec - finalize cross section sheets							Included with previous scope
storm sewer profile sheets - finalize			2		8		update existing sheets from comments and changes
drainage sheets - drainage map - update and finalize							Included in previous scope.
traffic control - finalize							Included in previous scope.
intersection warping - finalize							Included in previous scope.
erosion control - finalize							Included in previous scope.
calculate quantities and develop 2A and 2B sheets (schedules)	0	0	4	12	0	16	Develop storm sewer schedule sheets and calc. quantities
pay items & code numbers							Included with previous scope
pavement schedule & quantities							Included with previous scope
entrance schedule & quantities							Included with previous scope
drainage schedule & quantities			2	8			assume 80 culverts inlets and pipes sections & 3 pages of schd.
pavement markings schedule & quantities							Included with previous scope
earthwork schedule & quantities							Included with previous scope
seeding schedule & quantities							Included with previous scope
erosion & sediment control schedule & quantities							Included with previous scope
other schedules & quantities			2	4			Pedestrian facility schedules and quantities
summary of quantity schedule							Included with previous scope

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TASK	PRIN.	SR. PROF. II	SR. PROF. I	PROF. I	JR. PROF.	TOTAL	SCOPE OF WORK
break plans into two sets	0	0	44	84	0	128	
transition pavement plan sheets (add on one / remove on set two)			12	24			Horizontal and vertical transition on set one / removal set two
summary of quantities and schedules (est. 10 pgs) - assume payitems similar			12	24			Break and repopulate schedules (quantities, locations, notes)
project spec book / cost estimate / est. of time			8	16			Update specs / sep. cost estimates / sep. est.of time
submittals / reviews / comments			12	20			Assume only at final plans - separate review comments
permanent signing and striping sheets	0	0	0	0	0	0	
detail sheets	0	0	0	0	0	0	
project specification book	0	0	0	0	0	0	
final engineers estimate	0	0	0	0	0	0	
coordination, submittals and meetings	0	0	0	0	0	0	
7.0 CONSTRUCTION PHASE SERVICES	0	0	0	0	0	0	Included in previous scope.
shop drawing review	0	0	0	0	0	0	
set control points for construction	0	0	0	0	0	0	
centerline staking for utilities	0	0	0	0	0	0	
						0	